EMISSION BANDWIDTH

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 (mo)
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	9/26/2013	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

FCC KDB 789033 D01 General UNII Test Procedures were followed.

The transmit frequencies and data rates listed in the datasheet were measured in each band utilized by the radio. 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:

- RBW = Approx. 1% of the emission bandwidth (B). This was an iterative process to determine the RBW based on the emissions bandwidth (B).
- VBW= > RBW
- A peak detector was used
- Trace max hold.

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

There is no required limit to be met in the rule part for this test. The purpose of the test is to both report the results as required by

EMISSION BANDWIDTH

EUT:	ConnectCore6 (i.MX6)			**Work Order:**	ETHE0008
Serial Number:	00409D7B8CA2			**Date:**	08/05/14
Customer:	Etherios Design Solutions			**Temperature:**	24.1°C
Attendees:	None			**Humidity:**	52%
Project:	None			**Barometric Pres.:**	1022.3
Tested by:	Trevor Buls	**Power:**	5.0VDC	**Job Site:**	MN08

TEST SPECIFICATIONS	Test Method
FCC 15.407:2014	ANSI C63.10:2009

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

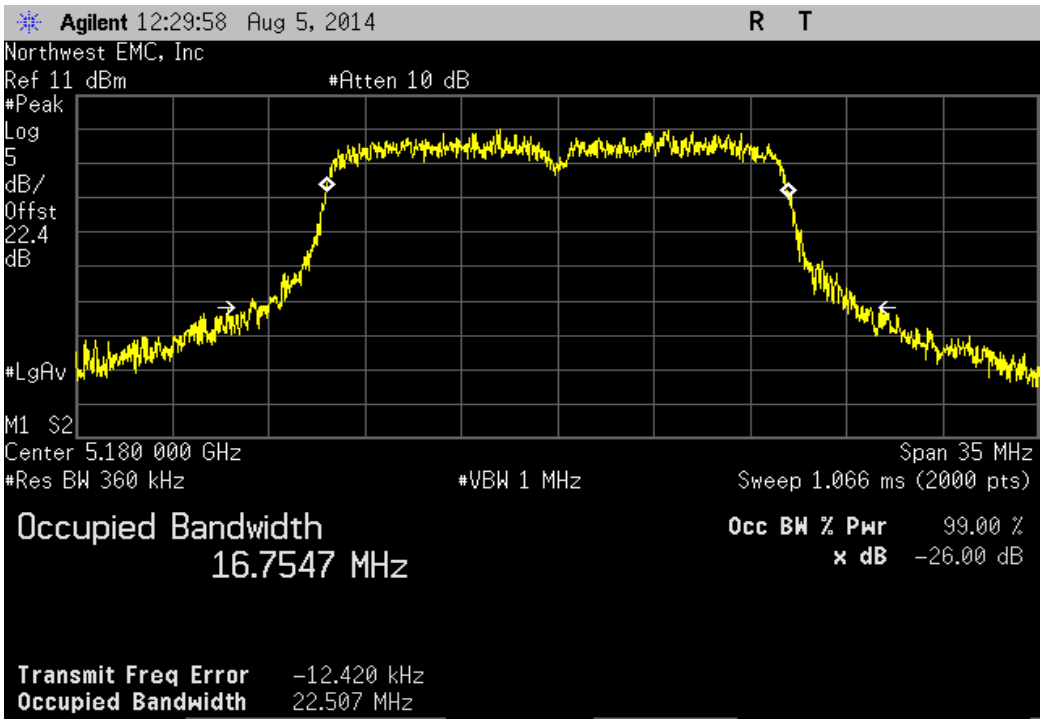
None

Configuration #	1	Signature	Trevor Buls

		Value	Limit (>)	Result
802.11(a) 6 Mbps				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	22.507 MHz	500 kHz	Pass
	Channel 48, High Channel	22.394 MHz	500 kHz	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	25.297 MHz	500 kHz	Pass
	Channel 64, High Channel	27.162 MHz	500 kHz	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	24.996 MHz	500 kHz	Pass
	Channel 116, Mid Channel	33.116 MHz	500 kHz	Pass
	Channel 140, High Channel	37.322 MHz	500 kHz	Pass
802.11(a) 36 Mbps				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	24.965 MHz	500 kHz	Pass
	Channel 48, High Channel	24.773 MHz	500 kHz	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	36.39 MHz	500 kHz	Pass
	Channel 64, High Channel	32.628 MHz	500 kHz	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	30.948 MHz	500 kHz	Pass
	Channel 116, Mid Channel	38.495 MHz	500 kHz	Pass
	Channel 140, High Channel	38.812 MHz	500 kHz	Pass
802.11(a) 54 Mbps				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	23.632 MHz	500 kHz	Pass
	Channel 48, High Channel	24.684 MHz	500 kHz	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	34.071 MHz	500 kHz	Pass
	Channel 64, High Channel	33.565 MHz	500 kHz	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	27.036 MHz	500 kHz	Pass
	Channel 116, Mid Channel	36.946 MHz	500 kHz	Pass
	Channel 140, High Channel	36.891 MHz	500 kHz	Pass
802.11(n) MCS0				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	22.383 MHz	500 kHz	Pass
	Channel 48, High Channel	22.78 MHz	500 kHz	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	28.251 MHz	500 kHz	Pass
	Channel 64, High Channel	29.06 MHz	500 kHz	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	25.407 MHz	500 kHz	Pass
	Channel 116, Mid Channel	35.082 MHz	500 kHz	Pass
	Channel 140, High Channel	35.771 MHz	500 kHz	Pass
802.11(n) MCS7				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	25.112 MHz	500 kHz	Pass
	Channel 48, High Channel	23.596 MHz	500 kHz	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	35.231 MHz	500 kHz	Pass
	Channel 64, High Channel	33.234 MHz	500 kHz	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	32.234 MHz	500 kHz	Pass
	Channel 116, Mid Channel	37.64 MHz	500 kHz	Pass
	Channel 140, High Channel	39.062 MHz	500 kHz	Pass

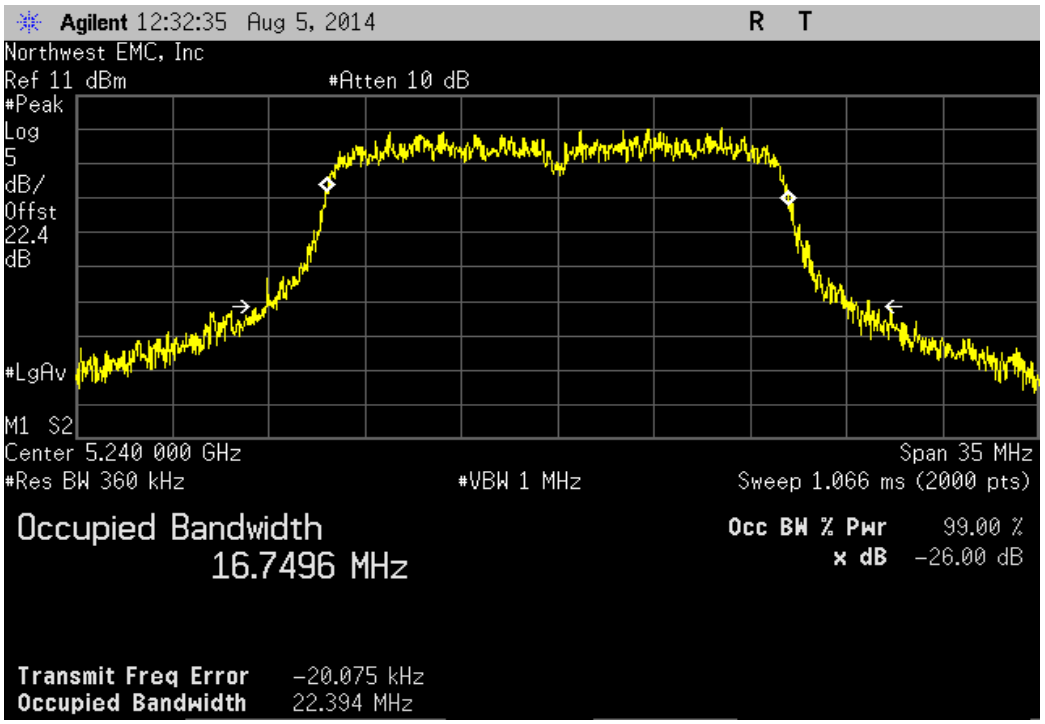
802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

				Value	Limit (>)	Result
				22.507 MHz	500 kHz	Pass



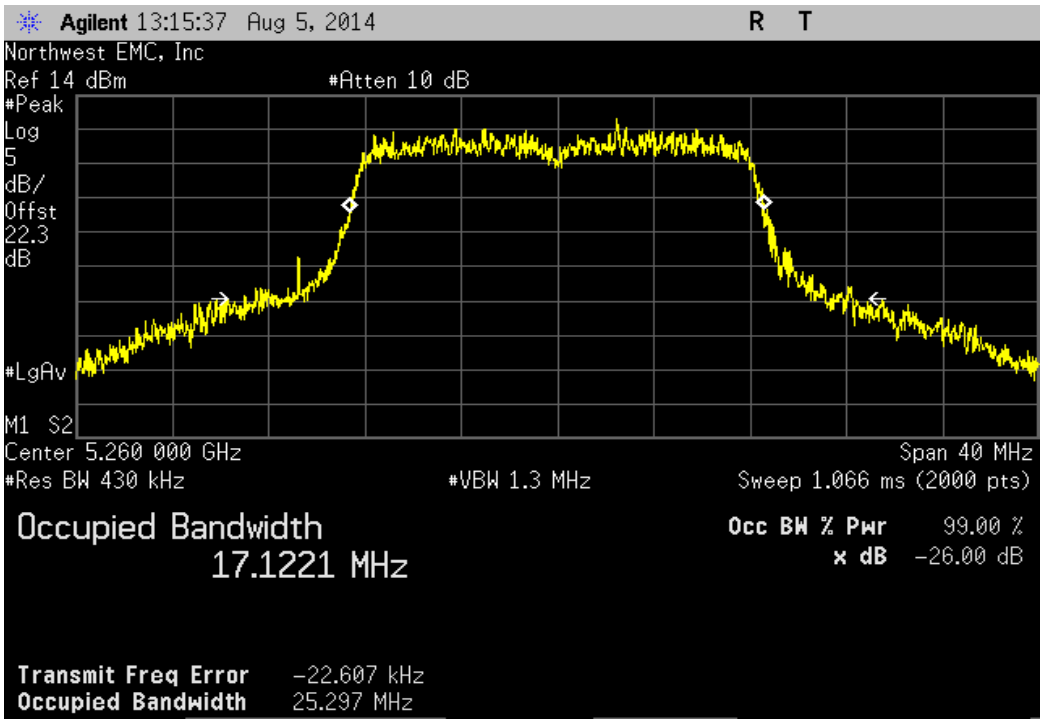
802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

				Value	Limit (>)	Result
				22.394 MHz	500 kHz	Pass



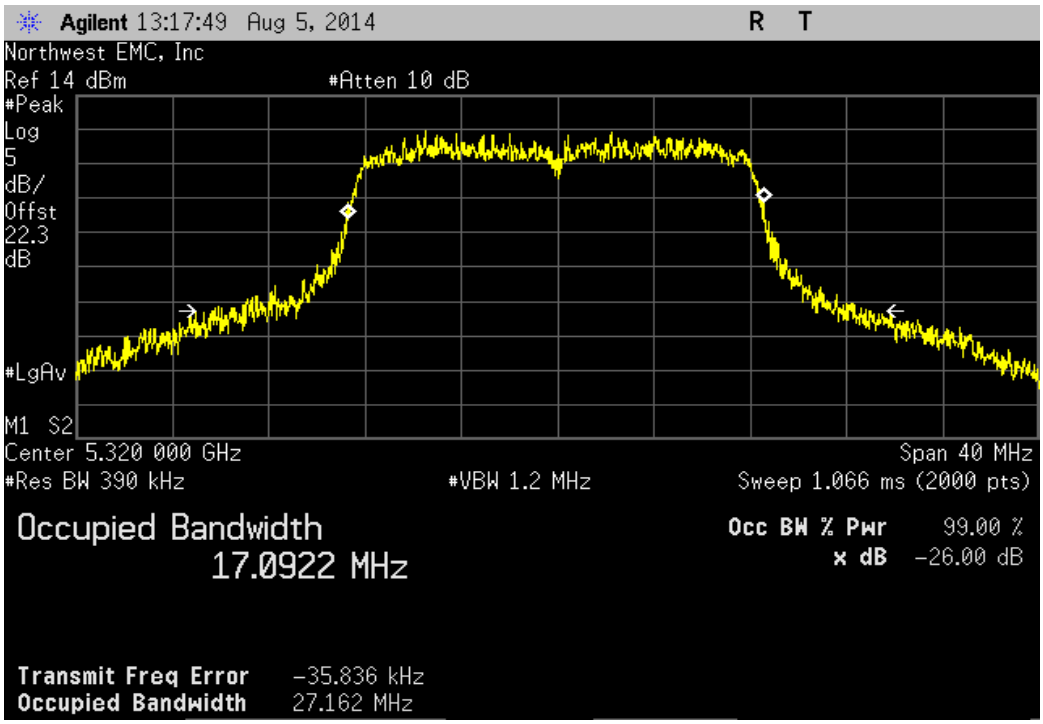
802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

				Value	Limit (>)	Result
				25.297 MHz	500 kHz	Pass

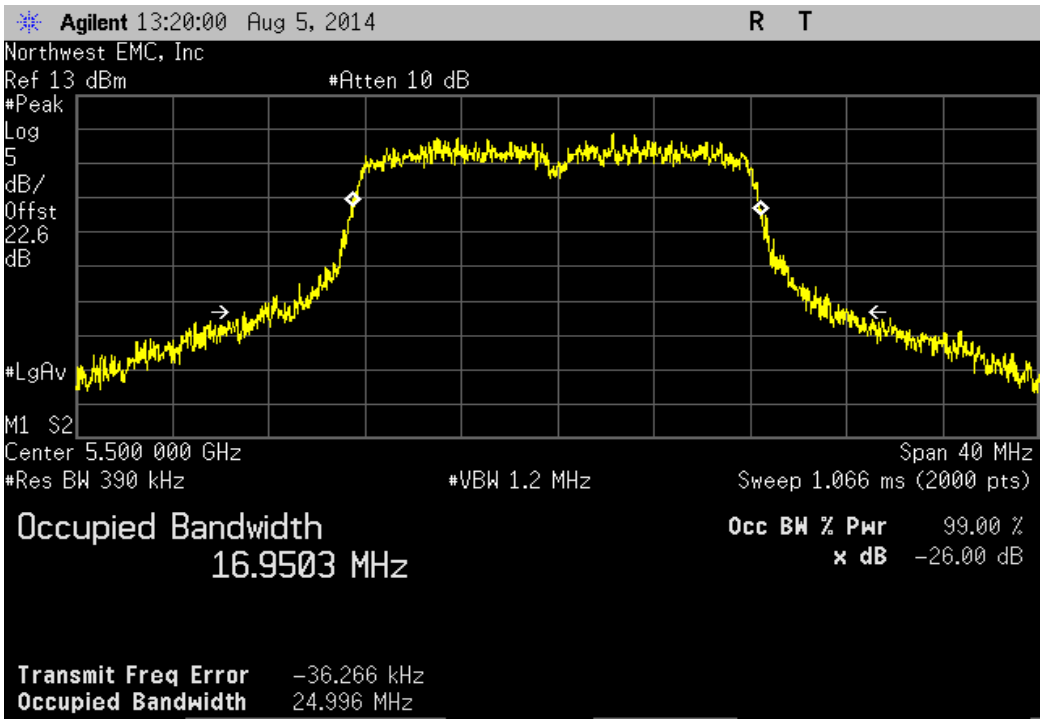


802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

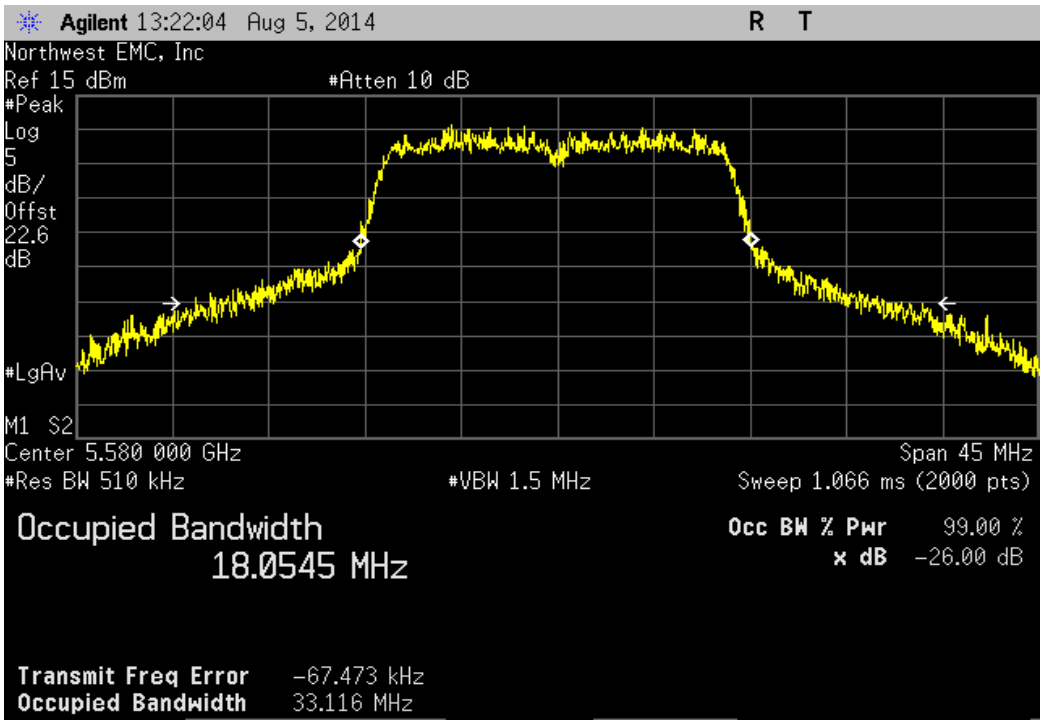
				Value	Limit (>)	Result
				27.162 MHz	500 kHz	Pass



802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
				Value	Limit (>)	Result
				24.996 MHz	500 kHz	Pass

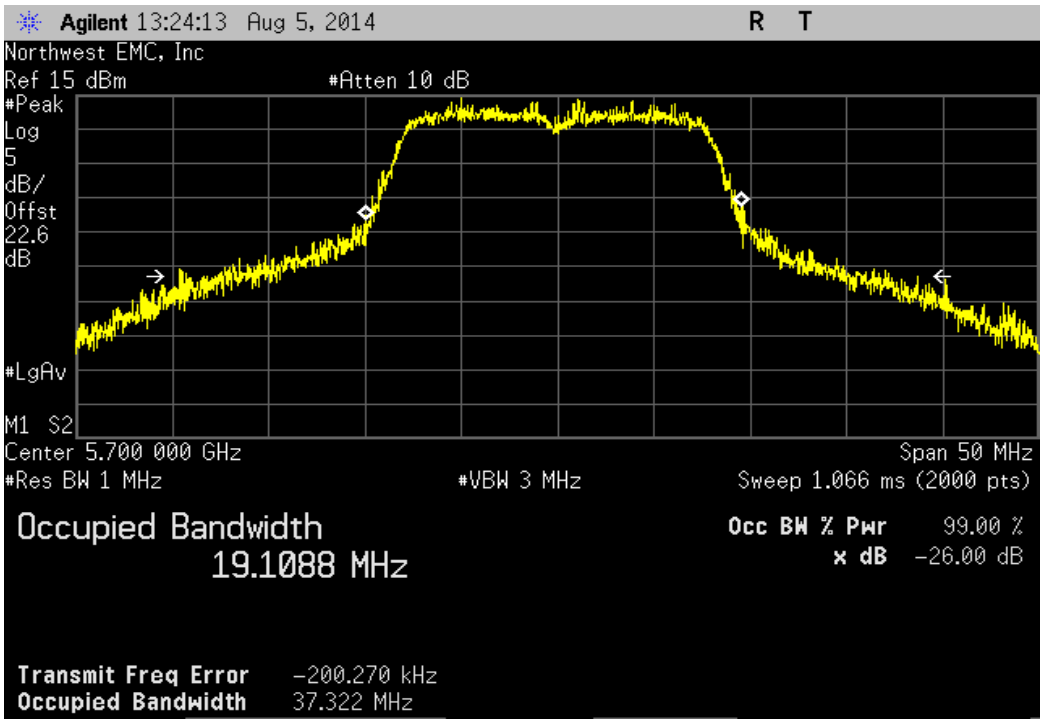


802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel						
				Value	Limit (>)	Result
				33.116 MHz	500 kHz	Pass



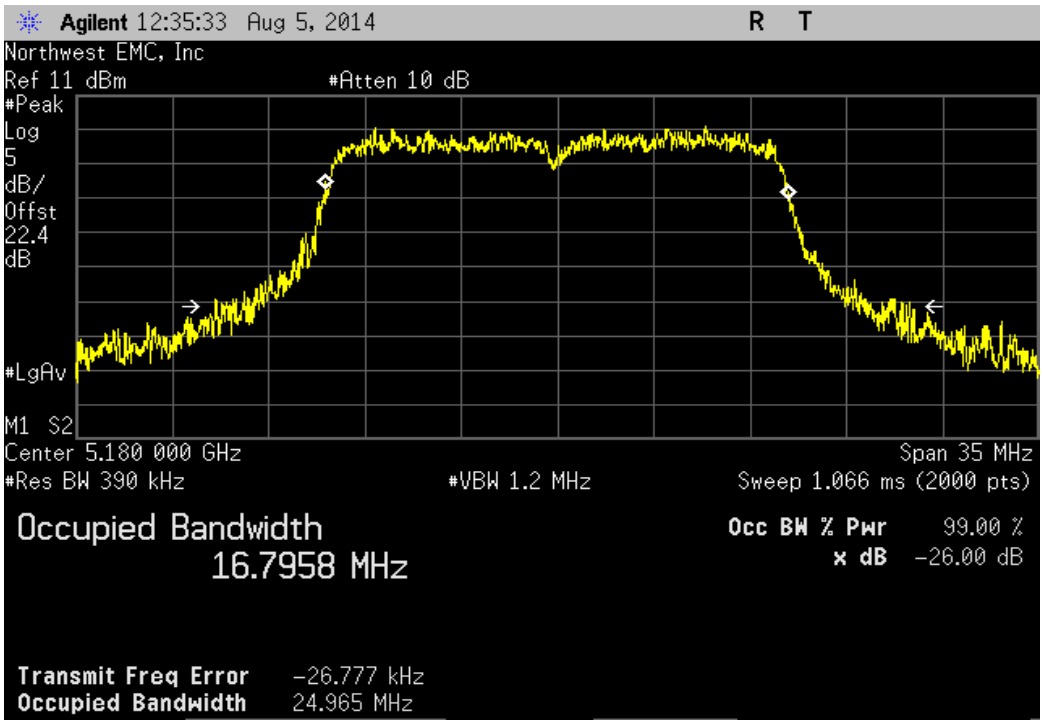
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

				Value	Limit (>)	Result
				37.322 MHz	500 kHz	Pass

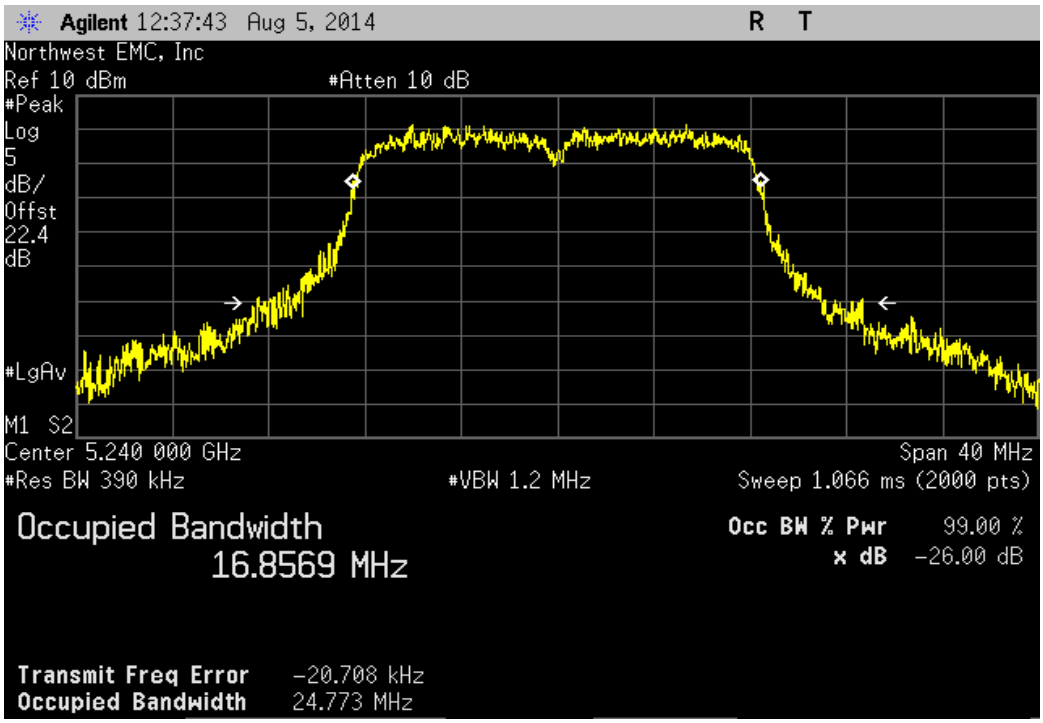


802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

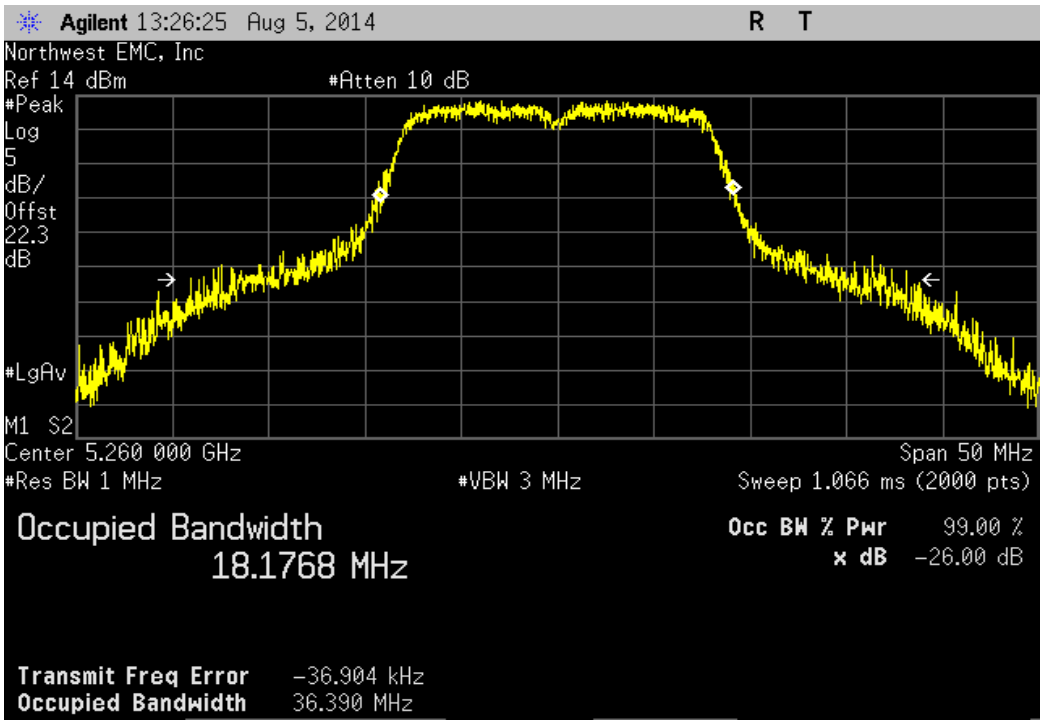
				Value	Limit (>)	Result
				24.965 MHz	500 kHz	Pass



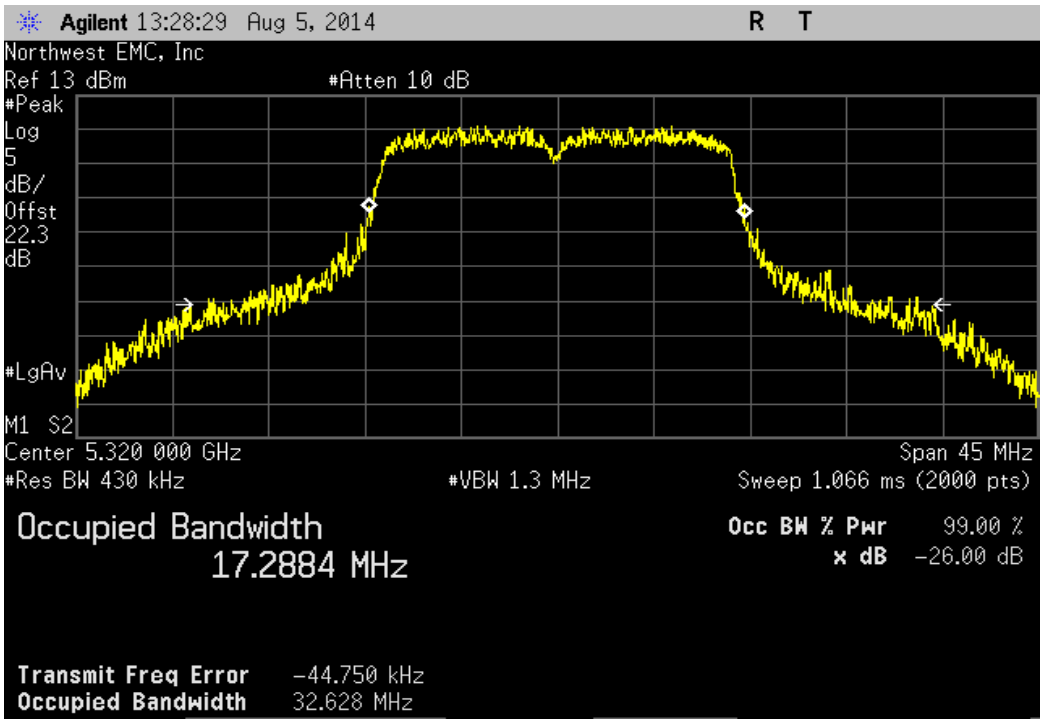
802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
				Value	Limit (>)	Result
				24.773 MHz	500 kHz	Pass



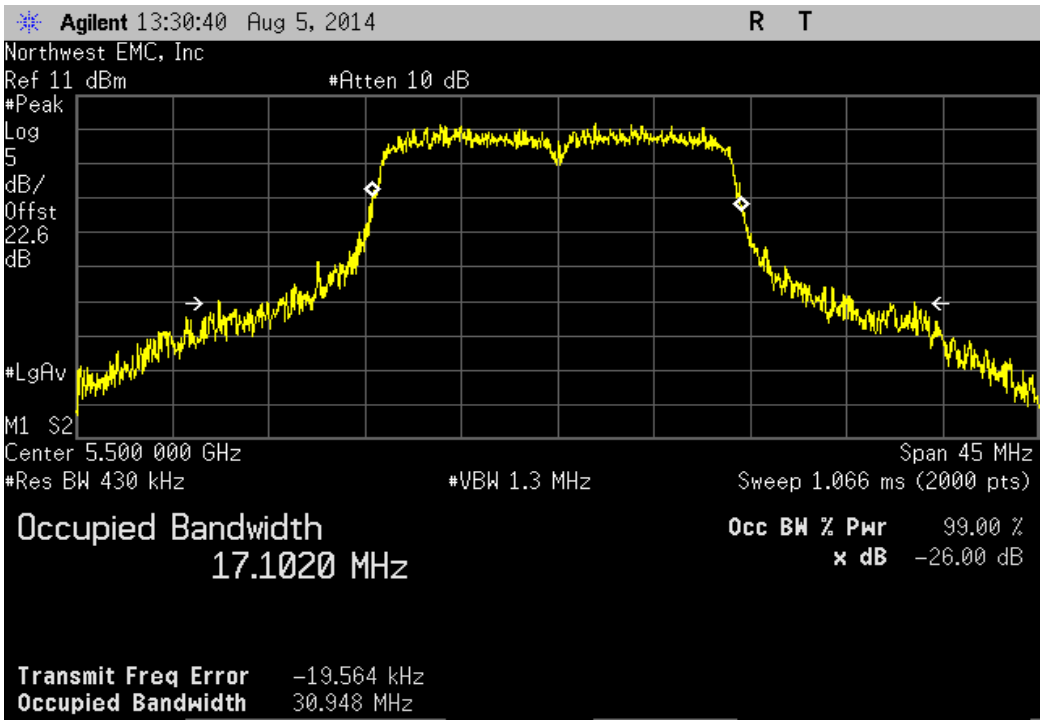
802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
				Value	Limit (>)	Result
				36.39 MHz	500 kHz	Pass



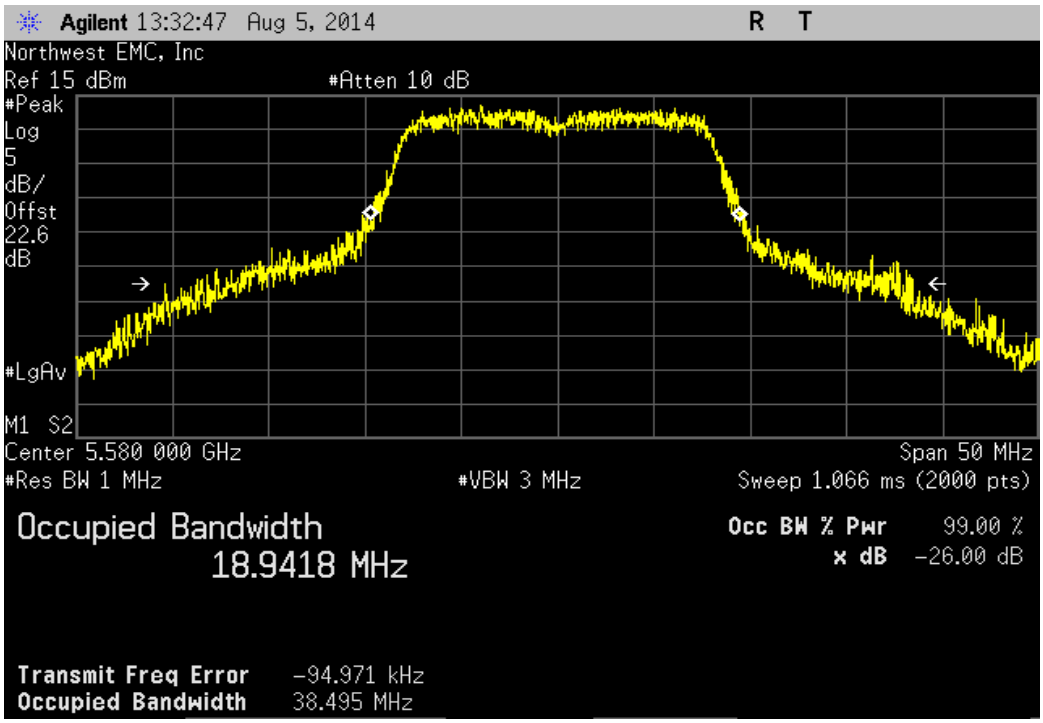
802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
				Value	Limit (>)	Result
				32.628 MHz	500 kHz	Pass



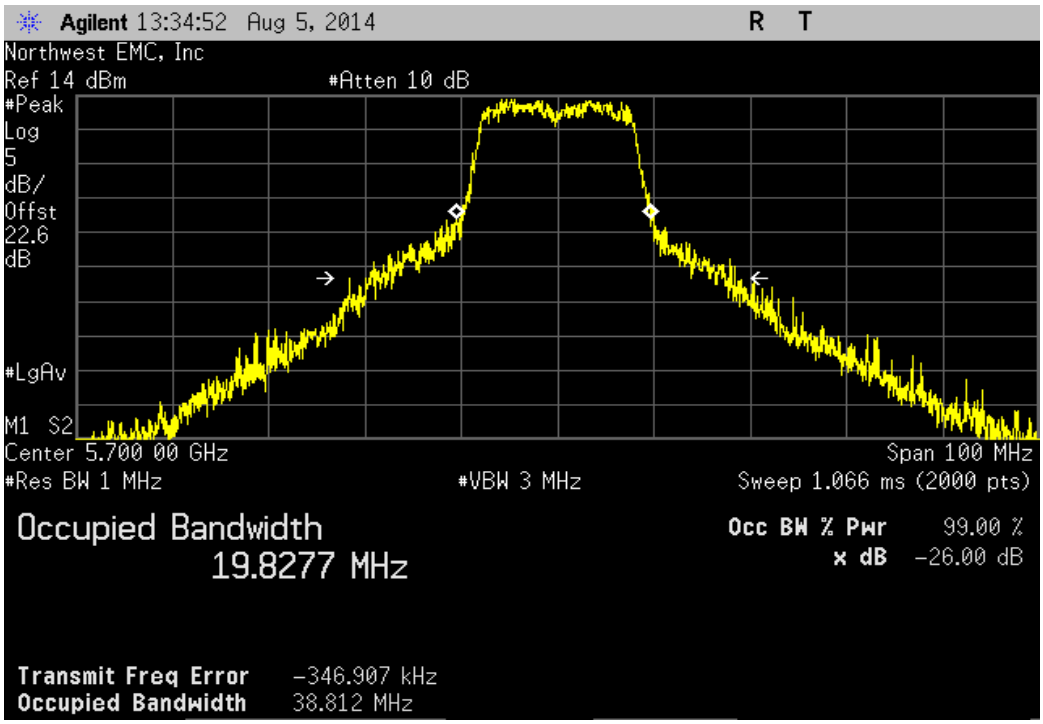
802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
				Value	Limit (>)	Result
				30.948 MHz	500 kHz	Pass



802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel						
				Value	Limit (>)	Result
				38.495 MHz	500 kHz	Pass

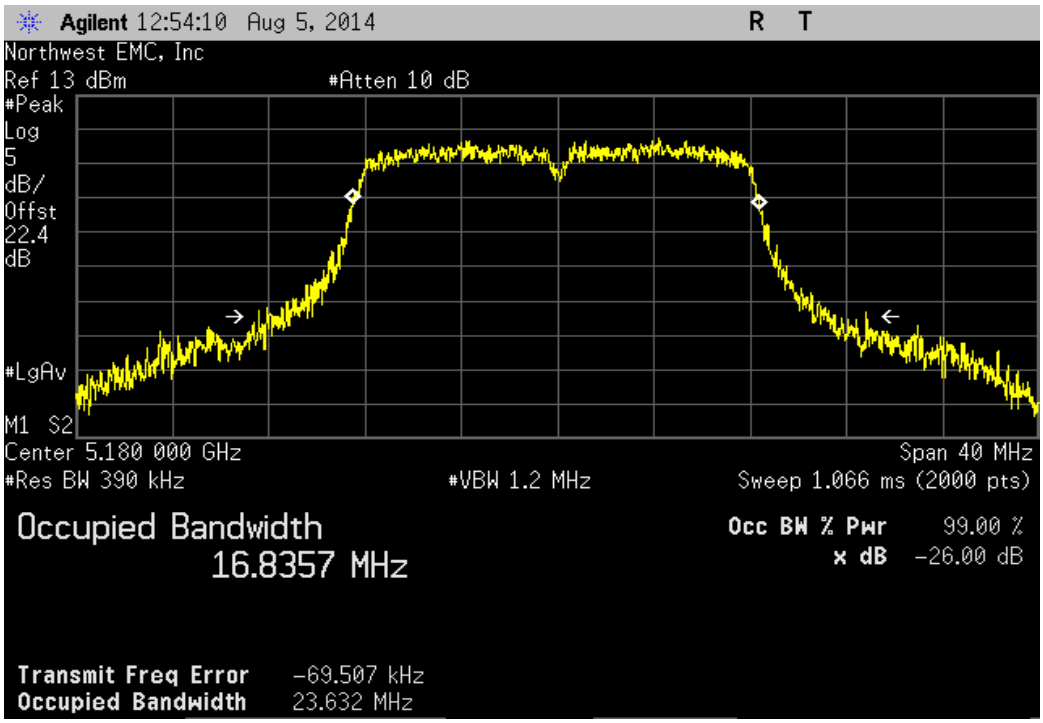


802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel						
				Value	Limit (>)	Result
				38.812 MHz	500 kHz	Pass



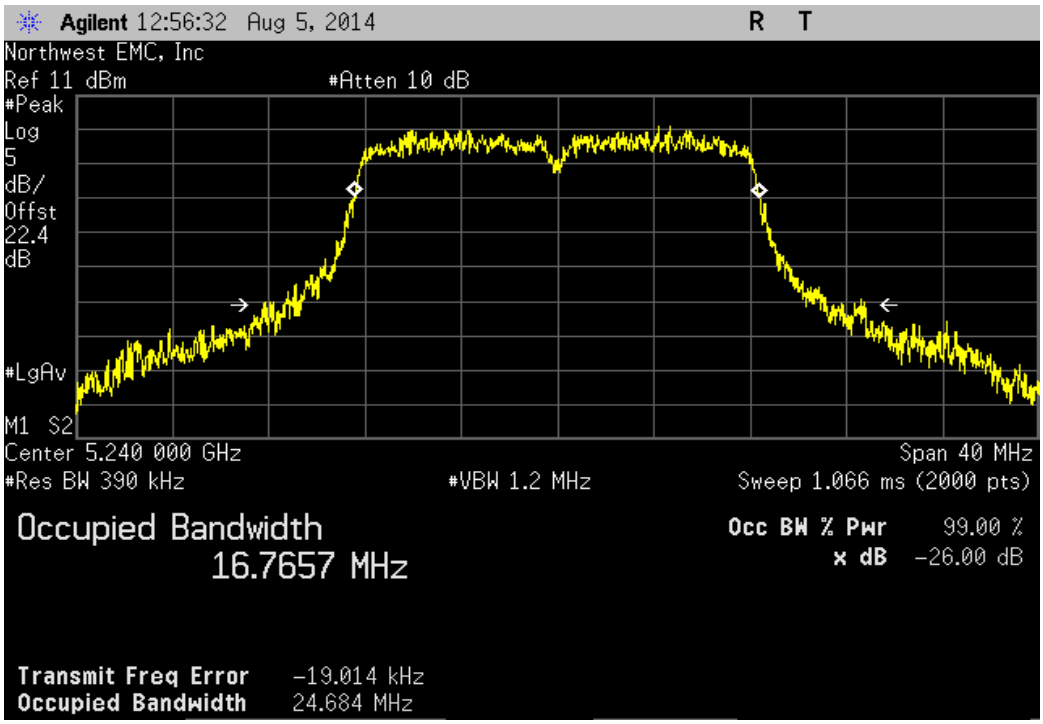
802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

				Value	Limit (>)	Result
				23.632 MHz	500 kHz	Pass



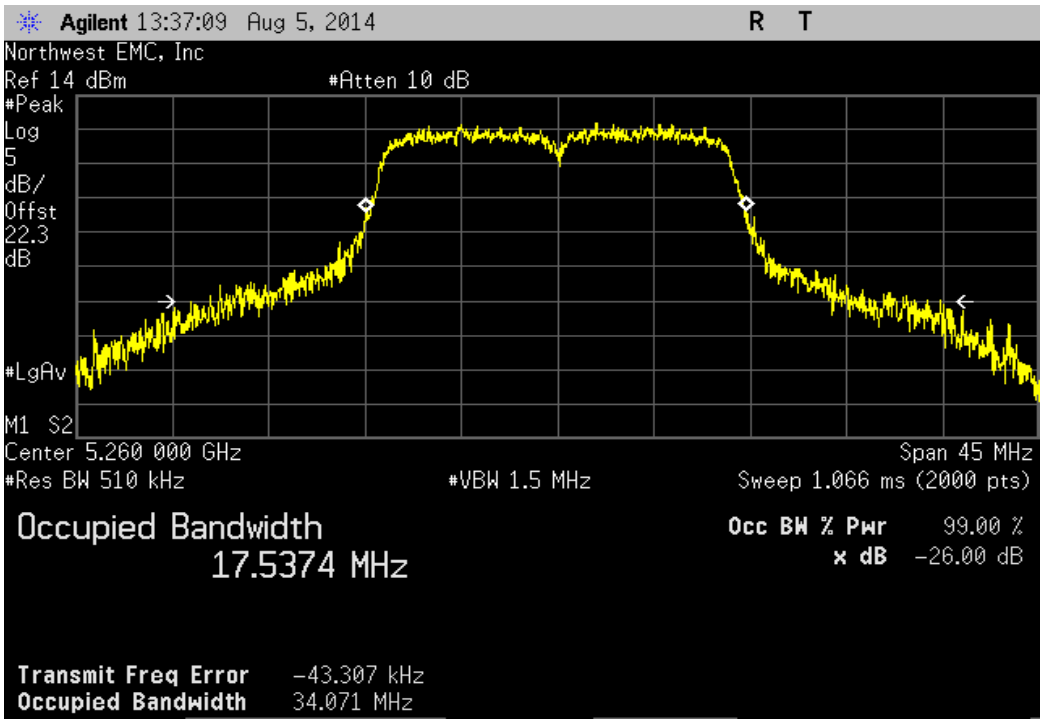
802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

				Value	Limit (>)	Result
				24.684 MHz	500 kHz	Pass



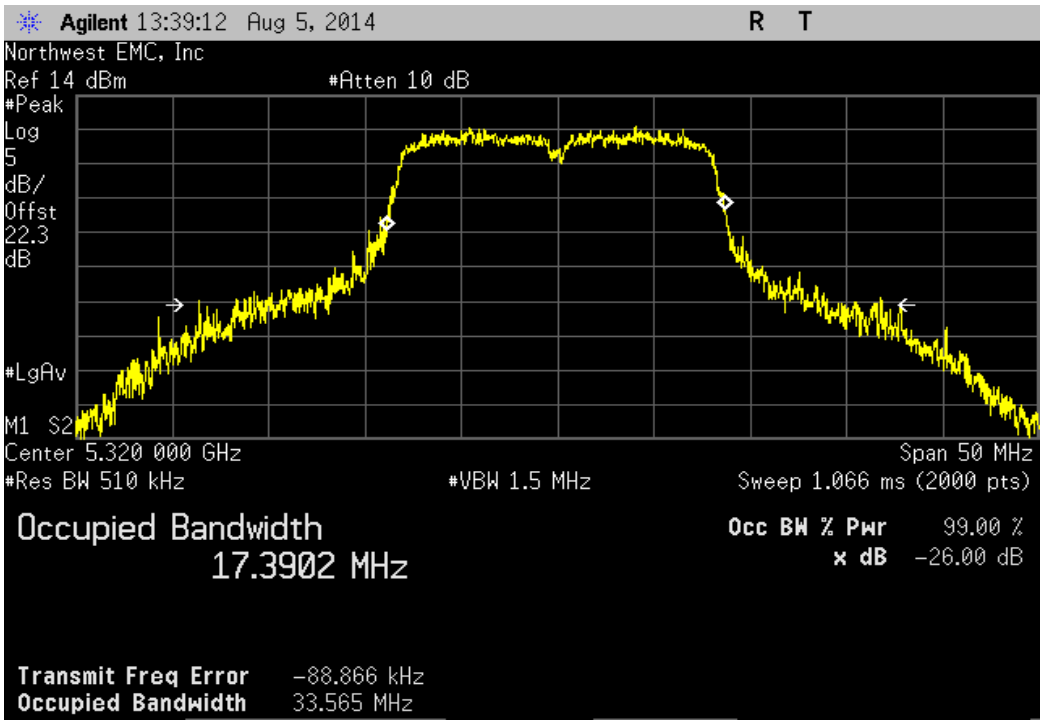
802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

				Value	Limit (>)	Result
				34.071 MHz	500 kHz	Pass

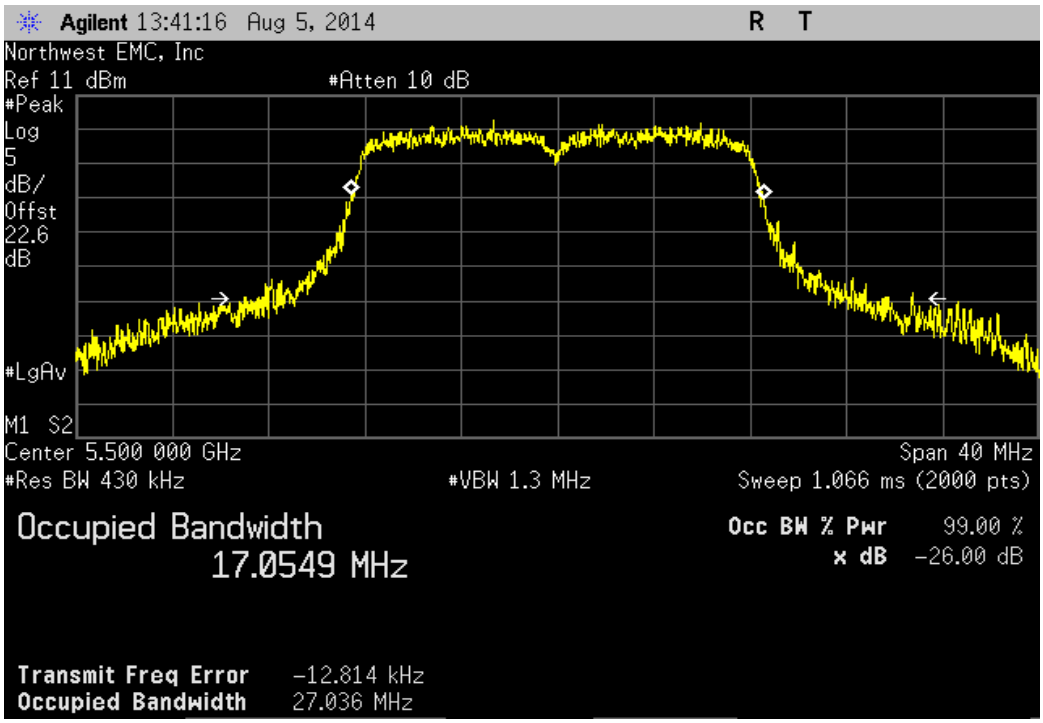


802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

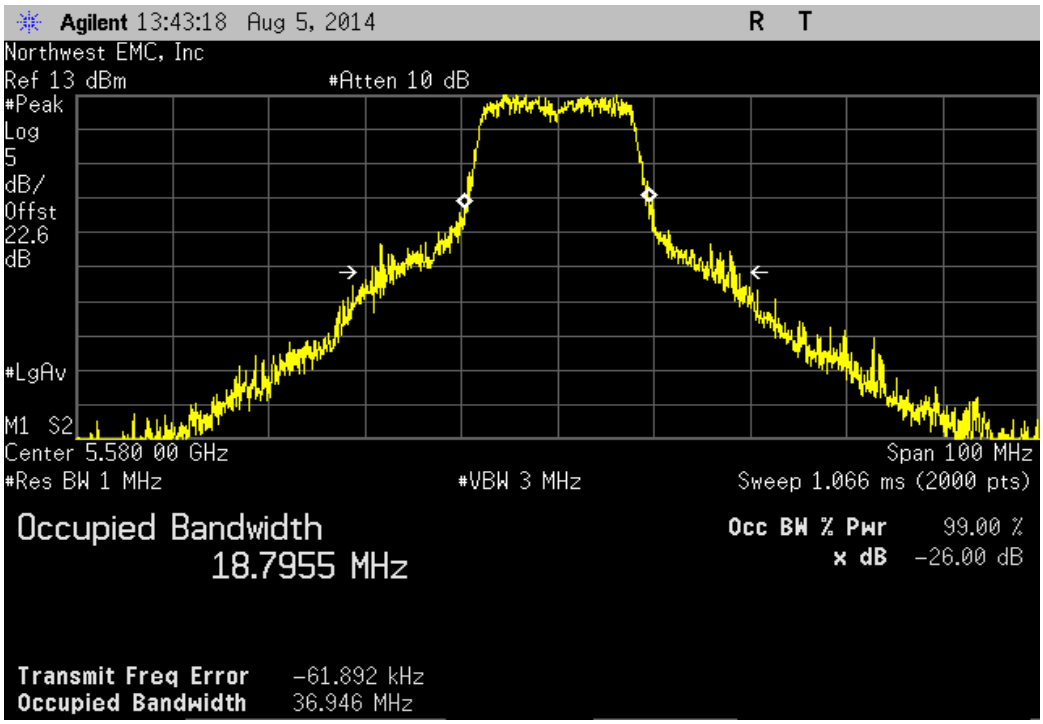
				Value	Limit (>)	Result
				33.565 MHz	500 kHz	Pass



802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
				Value	Limit (>)	Result
				27.036 MHz	500 kHz	Pass

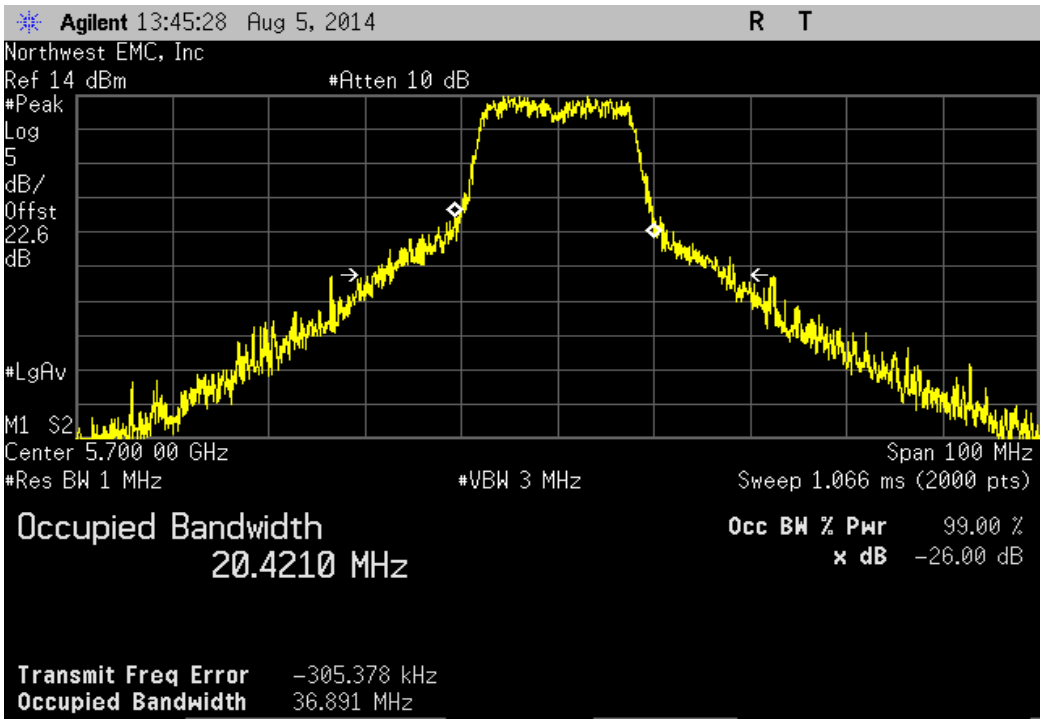


802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel						
				Value	Limit (>)	Result
				36.946 MHz	500 kHz	Pass



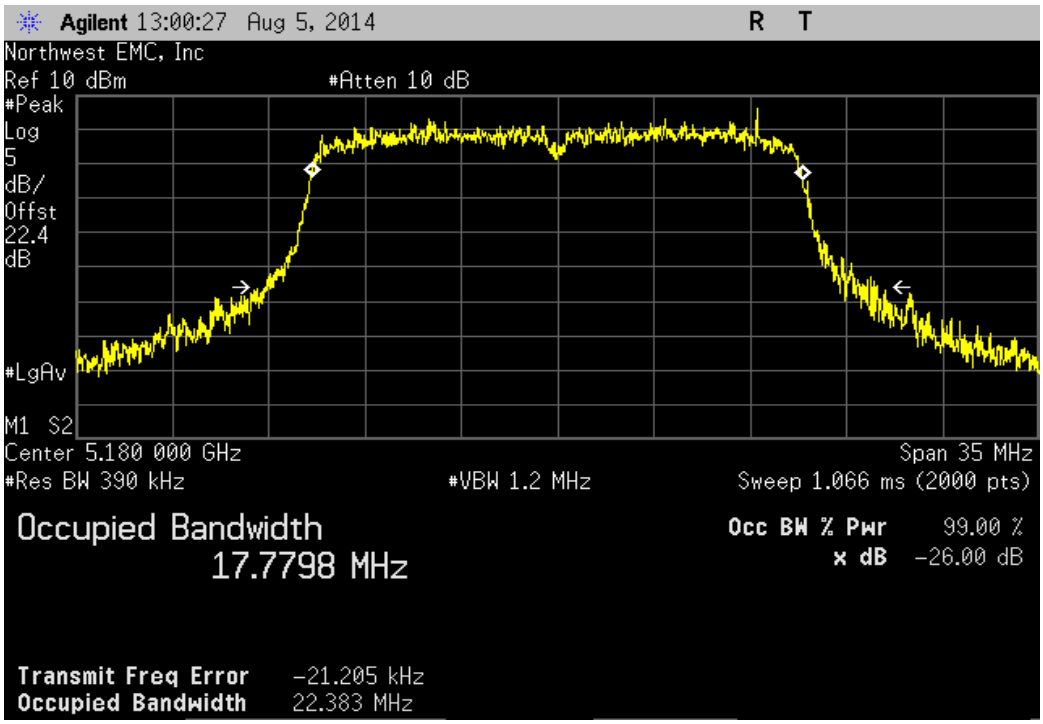
802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

				Value	Limit (>)	Result
				36.891 MHz	500 kHz	Pass



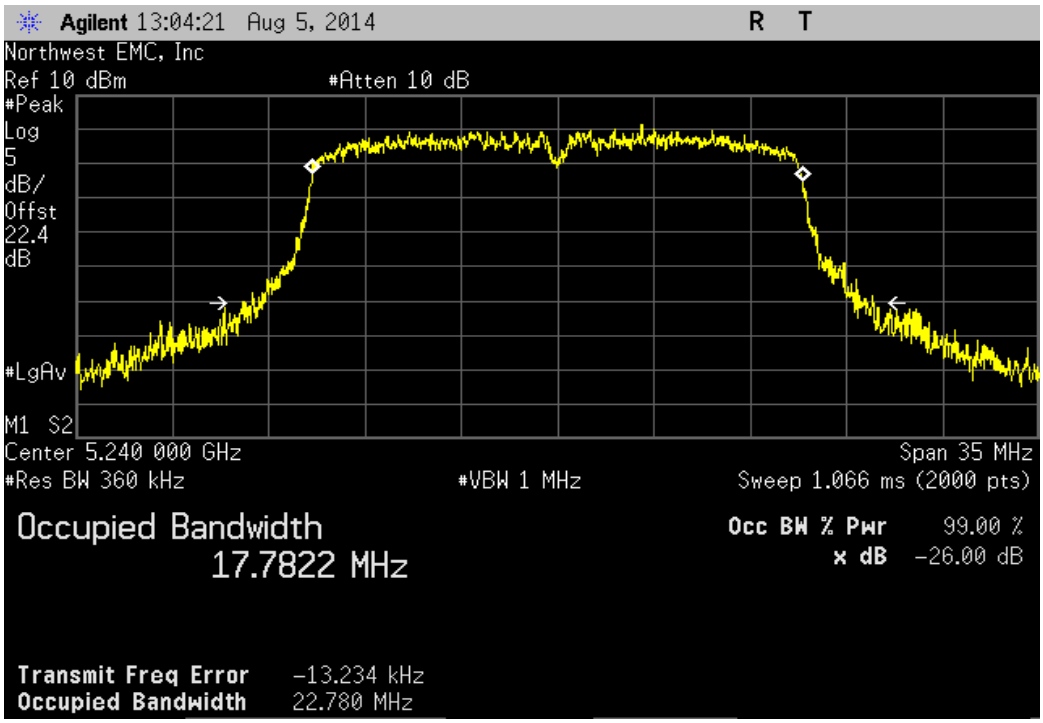
802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 36, Low Channel

				Value	Limit (>)	Result
				22.383 MHz	500 kHz	Pass



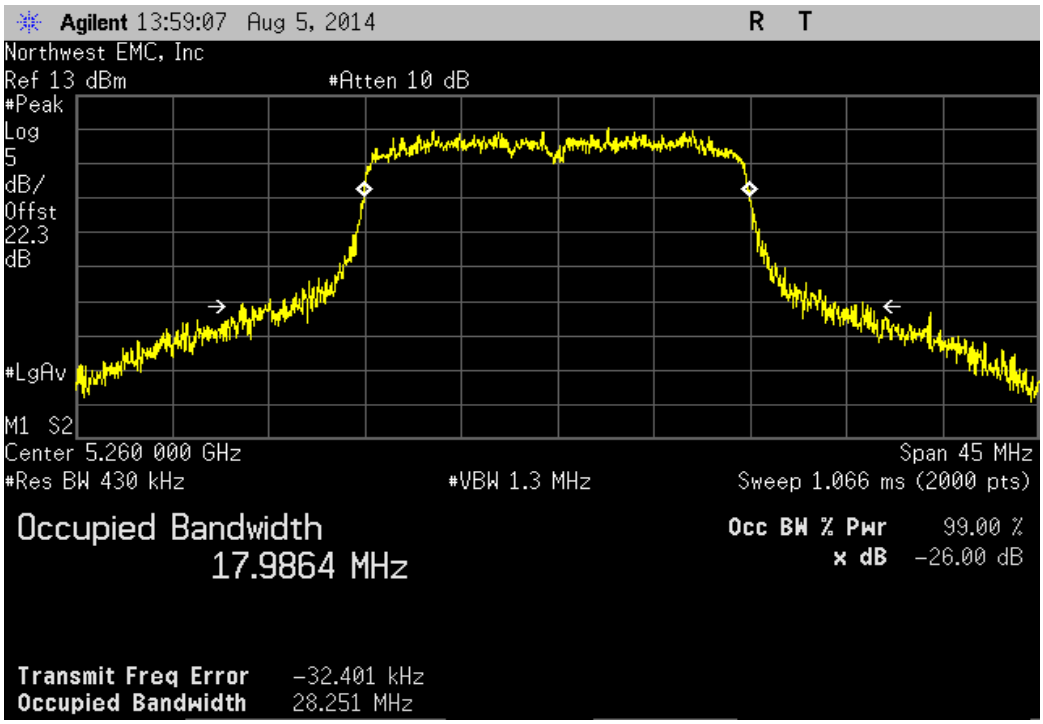
802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 48, High Channel

				Value	Limit (>)	Result
				22.78 MHz	500 kHz	Pass



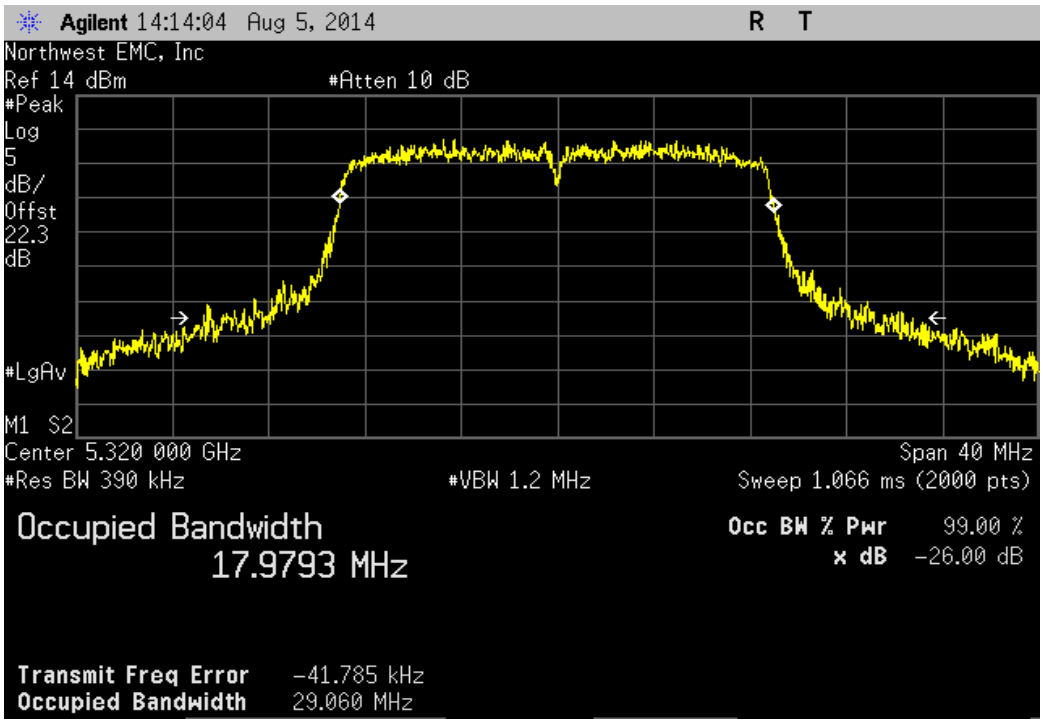
802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 52, Low Channel

				Value	Limit (>)	Result
				28.251 MHz	500 kHz	Pass



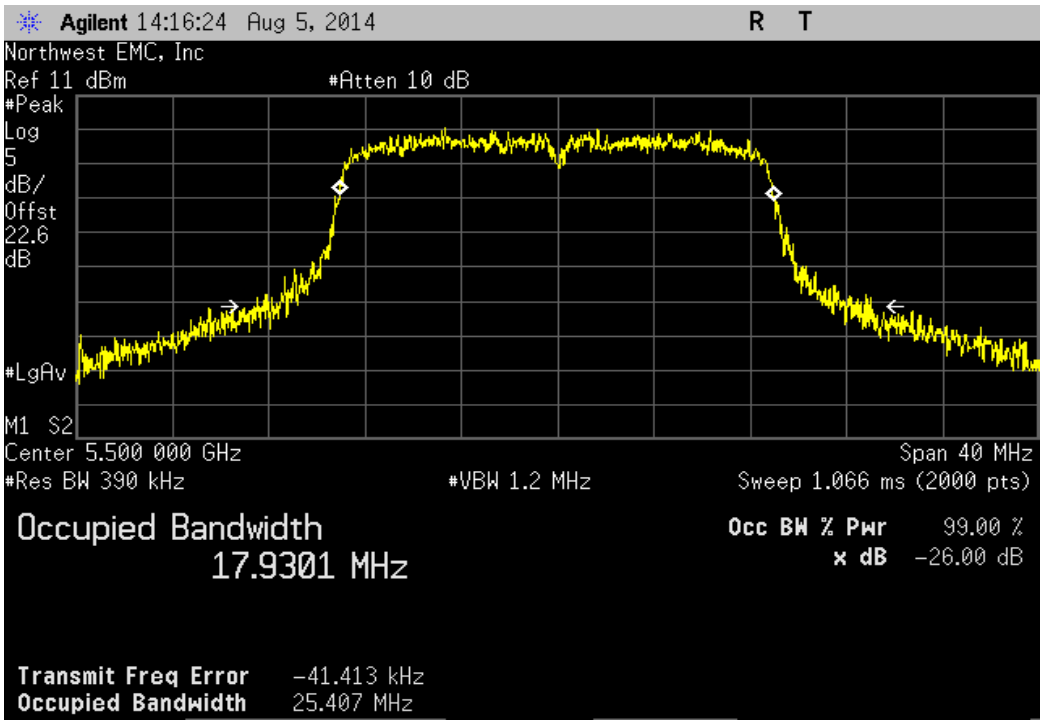
802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 64, High Channel

				Value	Limit (>)	Result
				29.06 MHz	500 kHz	Pass



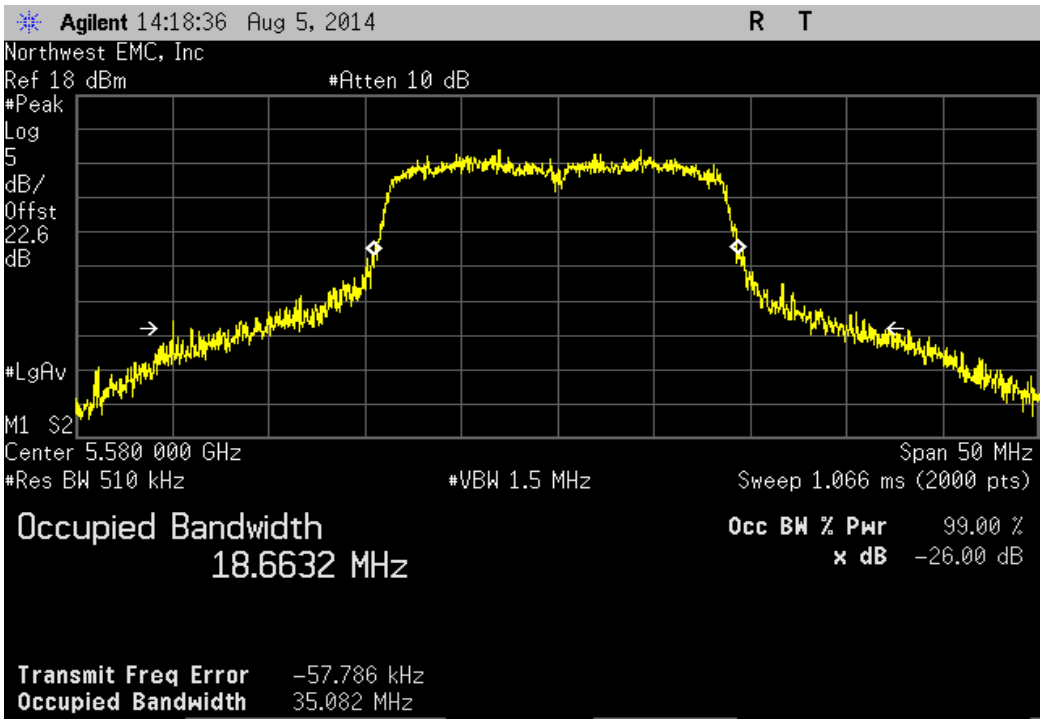
802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 100, Low Channel

				Value	Limit (>)	Result
				25.407 MHz	500 kHz	Pass



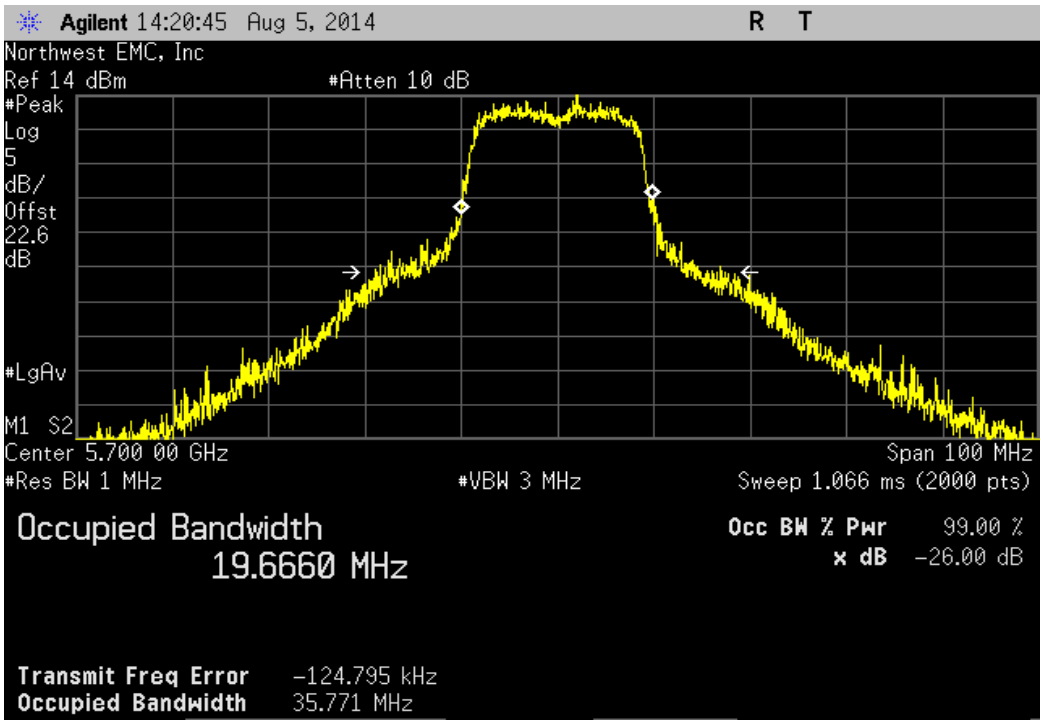
802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 116, Mid Channel

				Value	Limit (>)	Result
				35.082 MHz	500 kHz	Pass



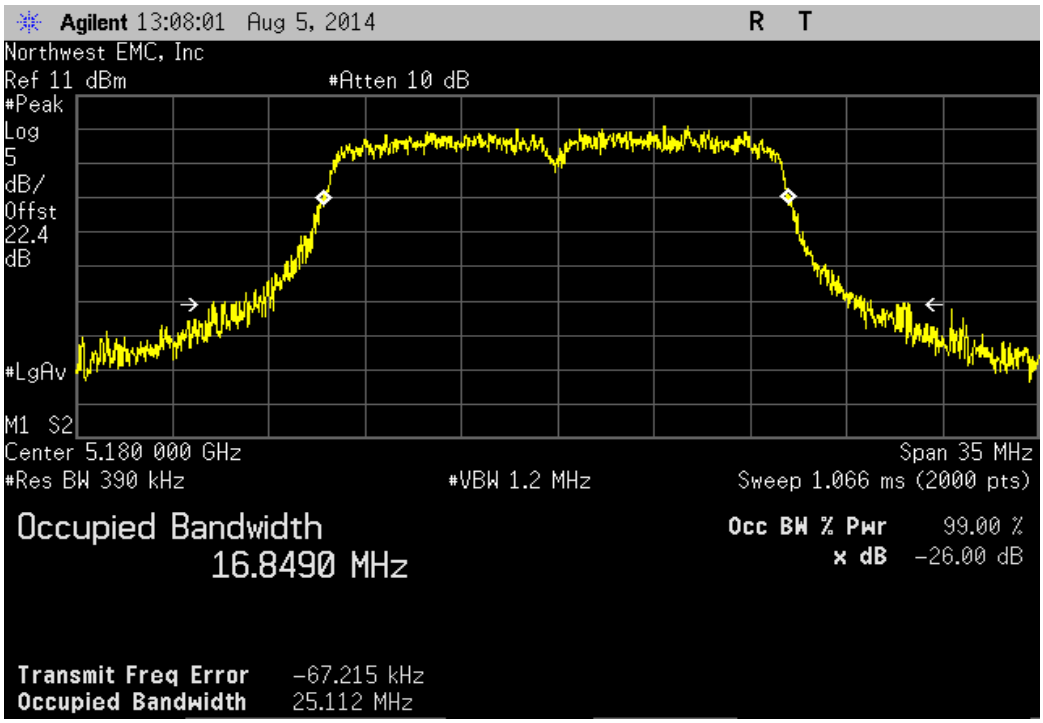
802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 140, High Channel

				Value	Limit (>)	Result
				35.771 MHz	500 kHz	Pass



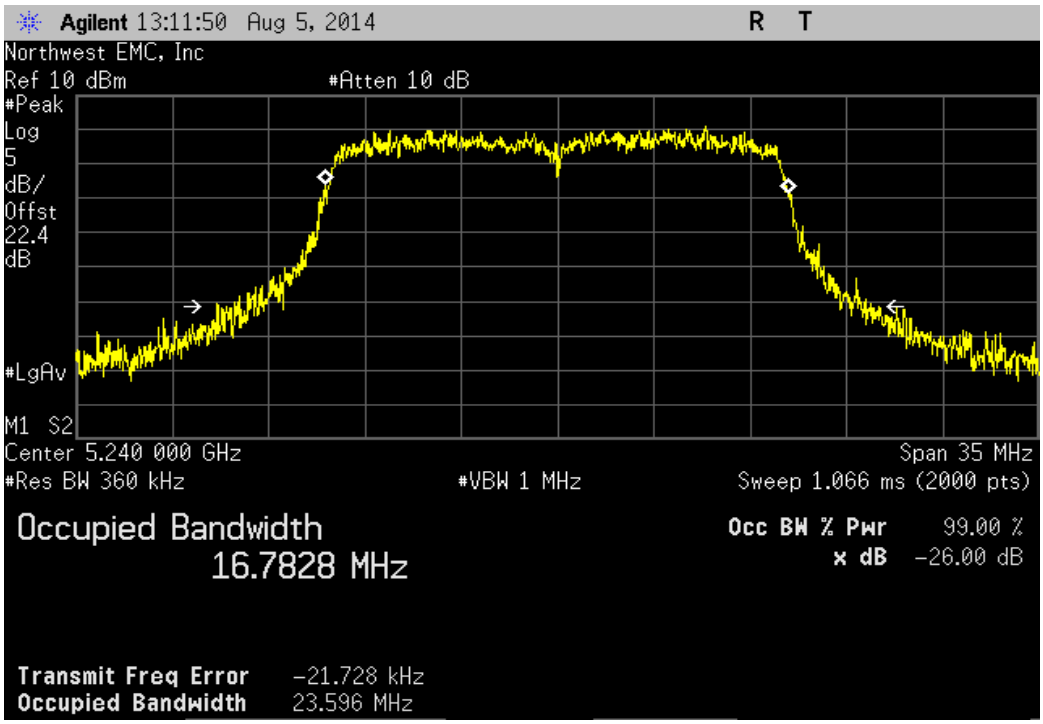
802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 36, Low Channel

				Value	Limit (>)	Result
				25.112 MHz	500 kHz	Pass



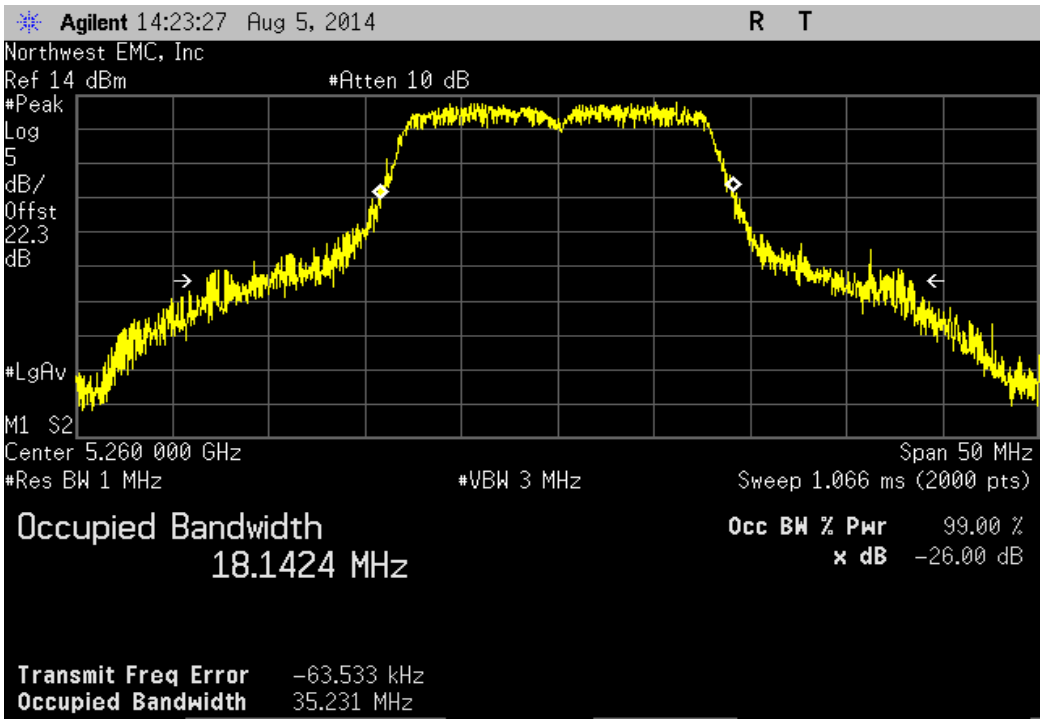
802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 48, High Channel

				Value	Limit (>)	Result
				23.596 MHz	500 kHz	Pass



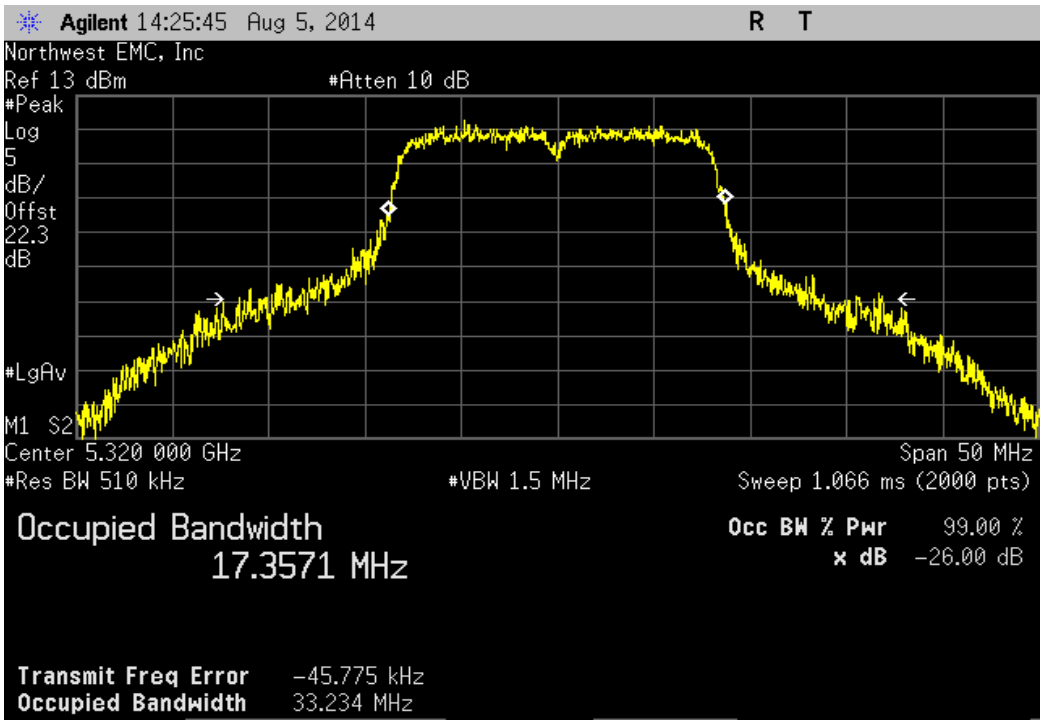
802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 52, Low Channel

				Value	Limit (>)	Result
				35.231 MHz	500 kHz	Pass



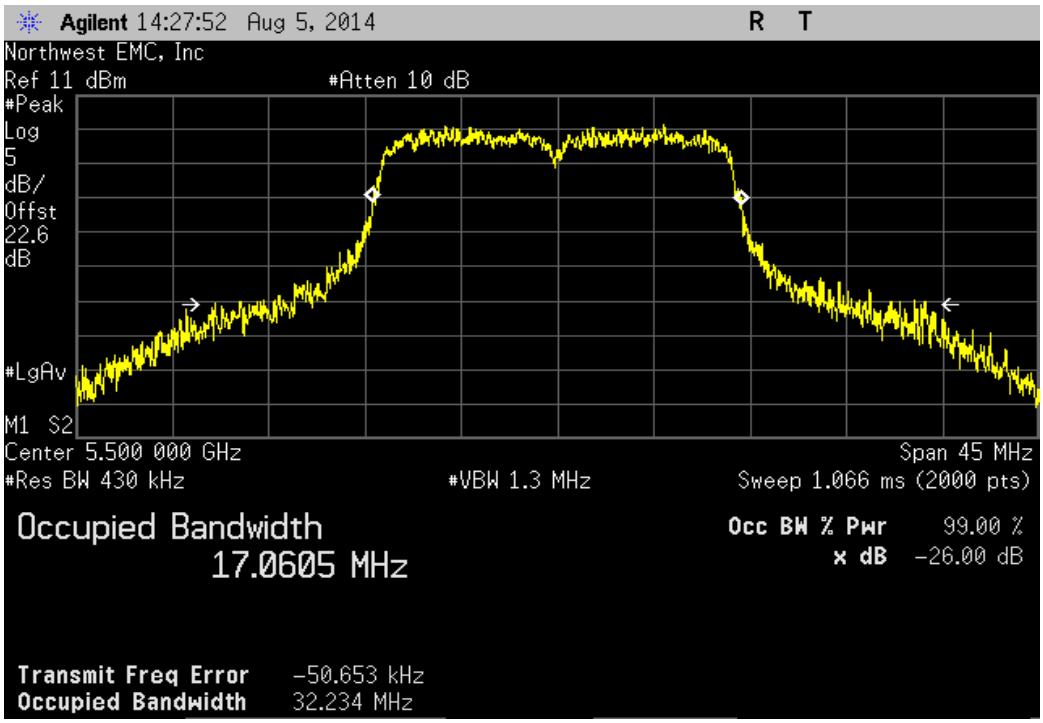
802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 64, High Channel

				Value	Limit (>)	Result
				33.234 MHz	500 kHz	Pass



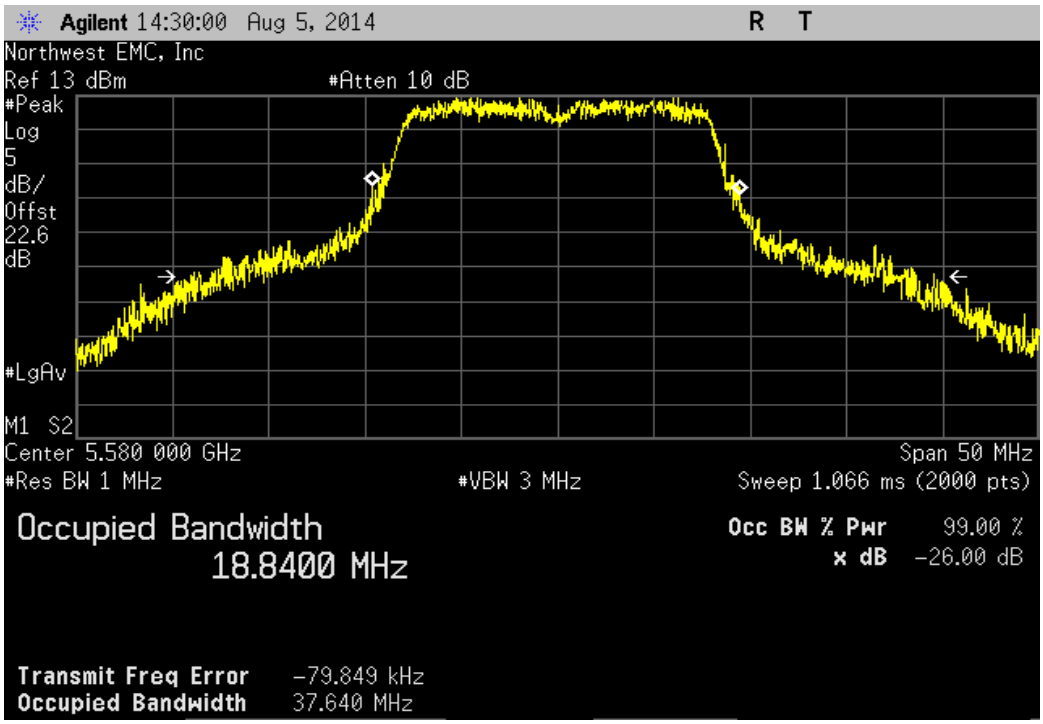
802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 100, Low Channel

				Value	Limit (>)	Result
				32.234 MHz	500 kHz	Pass



802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 116, Mid Channel

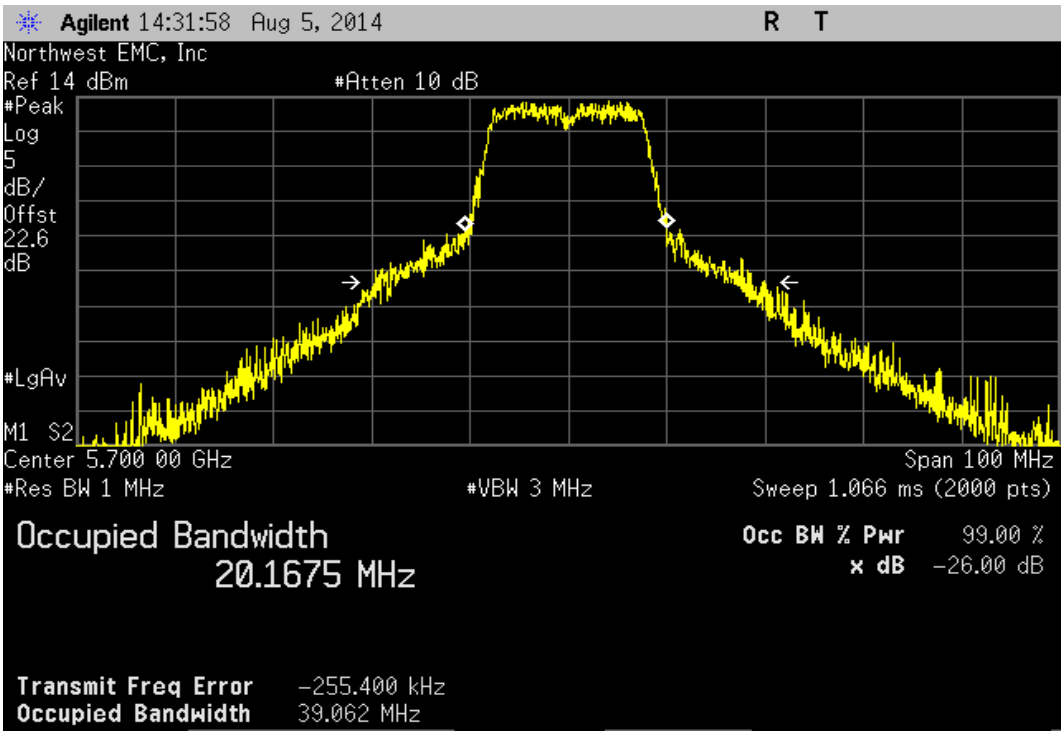
				Value	Limit (>)	Result
				37.64 MHz	500 kHz	Pass



EMISSION BANDWIDTH

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 140, High Channel

				Value	Limit (>)	Result
				39.062 MHz	500 kHz	Pass



PEAK TRANSMIT POWER

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 (mo)
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	9/26/2013	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

FCC KDB 789033 D01 General UNII Test Procedures Section C was followed. 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.

Prior to measuring peak transmit power; the emission bandwidth (B) and the transmission pulse duration (T) were measured. The method of measuring the emission bandwidth and the associated data are found elsewhere in this test report. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep) was used for this test.

The spectrum analyzer settings were set per the guidance as well as the following specifics:

- RBW = 1 MHz, VBW = 3 MHz
- Sample Detector
- The number of points was set to 601. This satisfied the requirement of being > 2 * span / RBW
- Trace average 100 traces in power averaging mode.
- Power was integrated across “B”, by using the channel power function of the analyzer.

PEAK TRANSMIT POWER

EUT:	ConnectCore6 (i.MX6)			**Work Order:**	ETHE0008
Serial Number:	00409D7B8CA2			**Date:**	08/21/14
Customer:	Etherios Design Solutions			**Temperature:**	23.3°C
Attendees:	None			**Humidity:**	58%
Project:	None			**Barometric Pres.:**	1010.8
Tested by:	Trevor Buls	**Power:**	5.0VDC	**Job Site:**	MN08

TEST SPECIFICATIONS	Test Method
FCC 15.407:2014	ANSI C63.10:2009

COMMENTS

None

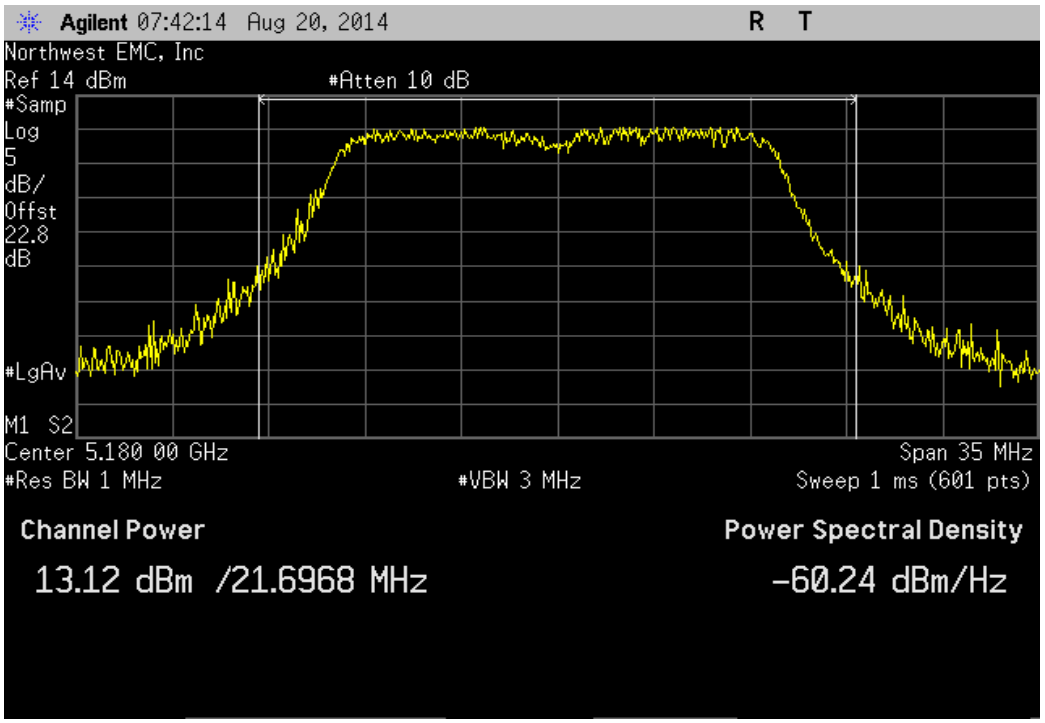
DEVIATIONS FROM TEST STANDARD

None

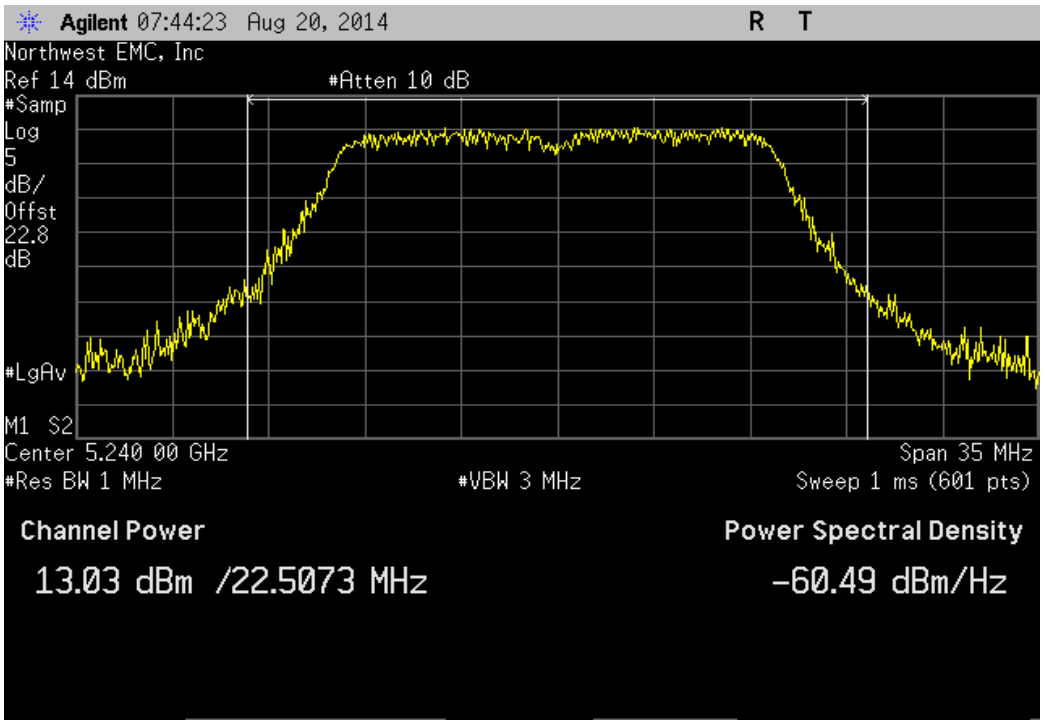
Configuration #	1	Signature	Trevor Buls

		Value	Limit (<)	Result
Port 1				
	802.11(a) 6 Mbps			
	Ch 36, Low Channel 5180 MHz	13.123 dBm	17 dBm	Pass
	Ch 48, High Channel 5240 MHz	13.032 dBm	17 dBm	Pass
	Ch 52, Low Channel 5260 MHz	11.384 dBm	24 dBm	Pass
	Ch 64, High Channel 5320 MHz	10.789 dBm	24 dBm	Pass
	Ch 100, Low Channel 5500 MHz	4.257 dBm	24 dBm	Pass
	Ch 116, Mid Channel 5580 MHz	8.03 dBm	24 dBm	Pass
	Ch 140, High Channel 5700 MHz	9.018 dBm	24 dBm	Pass
	802.11(a) 36 Mbps			
	Ch 36, Low Channel 5180 MHz	13.141 dBm	17 dBm	Pass
	Ch 48, High Channel 5240 MHz	12.193 dBm	17 dBm	Pass
	Ch 52, Low Channel 5260 MHz	11.751 dBm	24 dBm	Pass
	Ch 64, High Channel 5320 MHz	11.115 dBm	24 dBm	Pass
	Ch 100, Low Channel 5500 MHz	4.099 dBm	24 dBm	Pass
	Ch 116, Mid Channel 5580 MHz	7.903 dBm	24 dBm	Pass
	Ch 140, High Channel 5700 MHz	8.475 dBm	24 dBm	Pass
	802.11(a) 54 Mbps			
	Ch 36, Low Channel 5180 MHz	10.775 dBm	17 dBm	Pass
	Ch 48, High Channel 5240 MHz	10.847 dBm	17 dBm	Pass
	Ch 52, Low Channel 5260 MHz	11.155 dBm	24 dBm	Pass
	Ch 64, High Channel 5320 MHz	11.039 dBm	24 dBm	Pass
	Ch 100, Low Channel 5500 MHz	4.325 dBm	24 dBm	Pass
	Ch 116, Mid Channel 5580 MHz	5.651 dBm	24 dBm	Pass
	Ch 140, High Channel 5700 MHz	7.386 dBm	24 dBm	Pass
	802.11(n) MCS0			
	Ch 36, Low Channel 5180 MHz	11.716 dBm	17 dBm	Pass
	Ch 48, High Channel 5240 MHz	11.414 dBm	17 dBm	Pass
	Ch 52, Low Channel 5260 MHz	10.193 dBm	24 dBm	Pass
	Ch 64, High Channel 5320 MHz	9.913 dBm	24 dBm	Pass
	Ch 100, Low Channel 5500 MHz	3.65 dBm	24 dBm	Pass
	Ch 116, Mid Channel 5580 MHz	7.325 dBm	24 dBm	Pass
	Ch 140, High Channel 5700 MHz	8.285 dBm	24 dBm	Pass
	802.11(n) MCS7			
	Ch 36, Low Channel 5180 MHz	9.307 dBm	17 dBm	Pass
	Ch 48, High Channel 5240 MHz	8.737 dBm	17 dBm	Pass
	Ch 52, Low Channel 5260 MHz	9.494 dBm	24 dBm	Pass
	Ch 64, High Channel 5320 MHz	8.658 dBm	24 dBm	Pass
	Ch 100, Low Channel 5500 MHz	3.668 dBm	24 dBm	Pass
	Ch 116, Mid Channel 5580 MHz	7.014 dBm	24 dBm	Pass
	Ch 140, High Channel 5700 MHz	7.786 dBm	24 dBm	Pass
Port 2				
	802.11(a) 6 Mbps			
	Ch 36, Low Channel 5180 MHz	12.572 dBm	17 dBm	Pass
	Ch 48, High Channel 5240 MHz	12.028 dBm	17 dBm	Pass
	Ch 52, Low Channel 5260 MHz	10.208 dBm	24 dBm	Pass
	Ch 64, High Channel 5320 MHz	9.473 dBm	24 dBm	Pass
	Ch 100, Low Channel 5500 MHz	3.401 dBm	24 dBm	Pass
	Ch 116, Mid Channel 5580 MHz	6.744 dBm	24 dBm	Pass
	Ch 140, High Channel 5700 MHz	7.198 dBm	24 dBm	Pass
	802.11(a) 36 Mbps			
	Ch 36, Low Channel 5180 MHz	12.098 dBm	17 dBm	Pass
	Ch 48, High Channel 5240 MHz	11.471 dBm	17 dBm	Pass
	Ch 52, Low Channel 5260 MHz	10.141 dBm	24 dBm	Pass
	Ch 64, High Channel 5320 MHz	9.41 dBm	24 dBm	Pass
	Ch 100, Low Channel 5500 MHz	2.789 dBm	24 dBm	Pass
	Ch 116, Mid Channel 5580 MHz	6.695 dBm	24 dBm	Pass
	Ch 140, High Channel 5700 MHz	6.698 dBm	24 dBm	Pass
	802.11(a) 54 Mbps			
	Ch 36, Low Channel 5180 MHz	10.285 dBm	17 dBm	Pass
	Ch 48, High Channel 5240 MHz	9.749 dBm	17 dBm	Pass
	Ch 52, Low Channel 5260 MHz	9.635 dBm	24 dBm	Pass
	Ch 64, High Channel 5320 MHz	9.386 dBm	24 dBm	Pass
	Ch 100, Low Channel 5500 MHz	2.817 dBm	24 dBm	Pass
	Ch 116, Mid Channel 5580 MHz	6.218 dBm	24 dBm	Pass
	Ch 140, High Channel 5700 MHz	7.176 dBm	24 dBm	Pass
	802.11(n) MCS0			
	Ch 36, Low Channel 5180 MHz	12.393 dBm	17 dBm	Pass
	Ch 48, High Channel 5240 MHz	11.83 dBm	17 dBm	Pass
	Ch 52, Low Channel 5260 MHz	10.044 dBm	24 dBm	Pass
	Ch 64, High Channel 5320 MHz	9.359 dBm	24 dBm	Pass
	Ch 100, Low Channel 5500 MHz	2.803 dBm	24 dBm	Pass
	Ch 116, Mid Channel 5580 MHz	6.612 dBm	24 dBm	Pass
	Ch 140, High Channel 5700 MHz	7.13 dBm	24 dBm	Pass
	802.11(n) MCS7			
	Ch 36, Low Channel 5180 MHz	9.336 dBm	17 dBm	Pass
	Ch 48, High Channel 5240 MHz	8.703 dBm	17 dBm	Pass
	Ch 52, Low Channel 5260 MHz	9.108 dBm	24 dBm	Pass
	Ch 64, High Channel 5320 MHz	8.036 dBm	24 dBm	Pass
	Ch 100, Low Channel 5500 MHz	2.737 dBm	24 dBm	Pass
	Ch 116, Mid Channel 5580 MHz	6.172 dBm	24 dBm	Pass
	Ch 140, High Channel 5700 MHz	6.673 dBm	24 dBm	Pass

Port 1, 802.11(a) 6 Mbps, Ch 36, Low Channel 5180 MHz							
					Value	Limit (<)	Result
					13.123 dBm	17 dBm	Pass

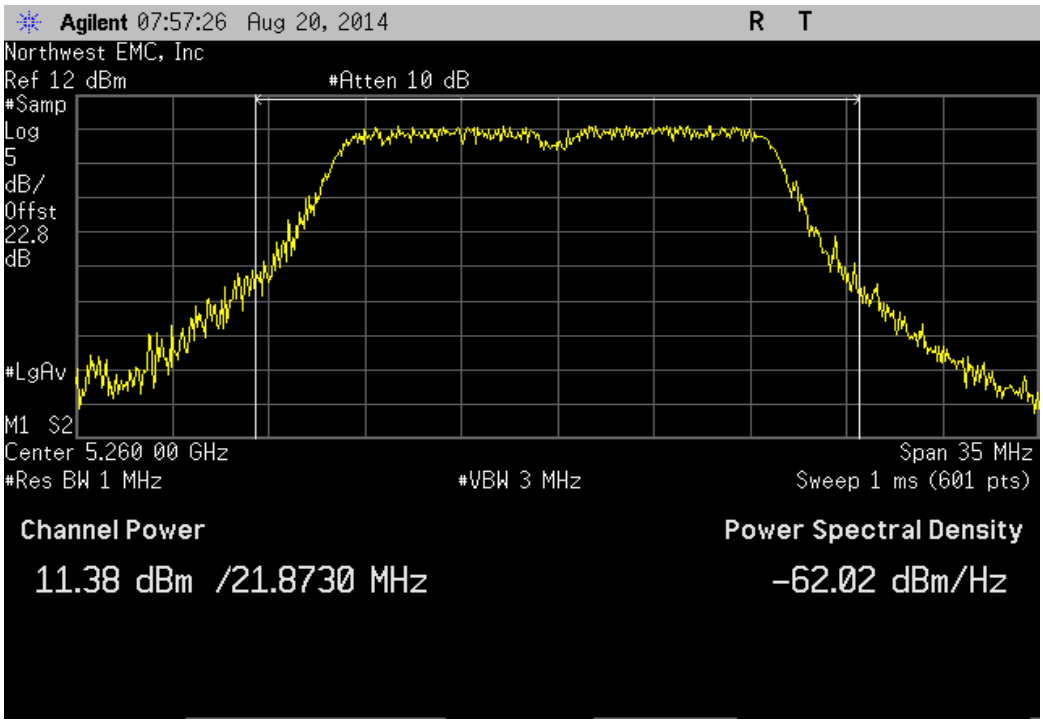


Port 1, 802.11(a) 6 Mbps, Ch 48, High Channel 5240 MHz							
					Value	Limit (<)	Result
					13.032 dBm	17 dBm	Pass

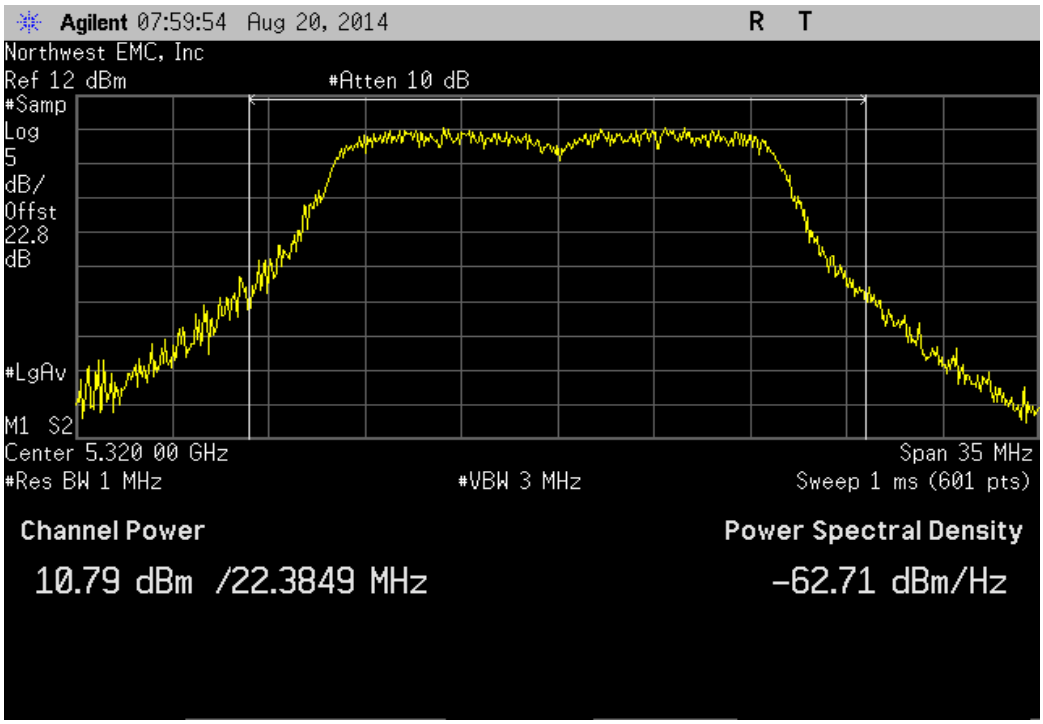


PEAK TRANSMIT POWER

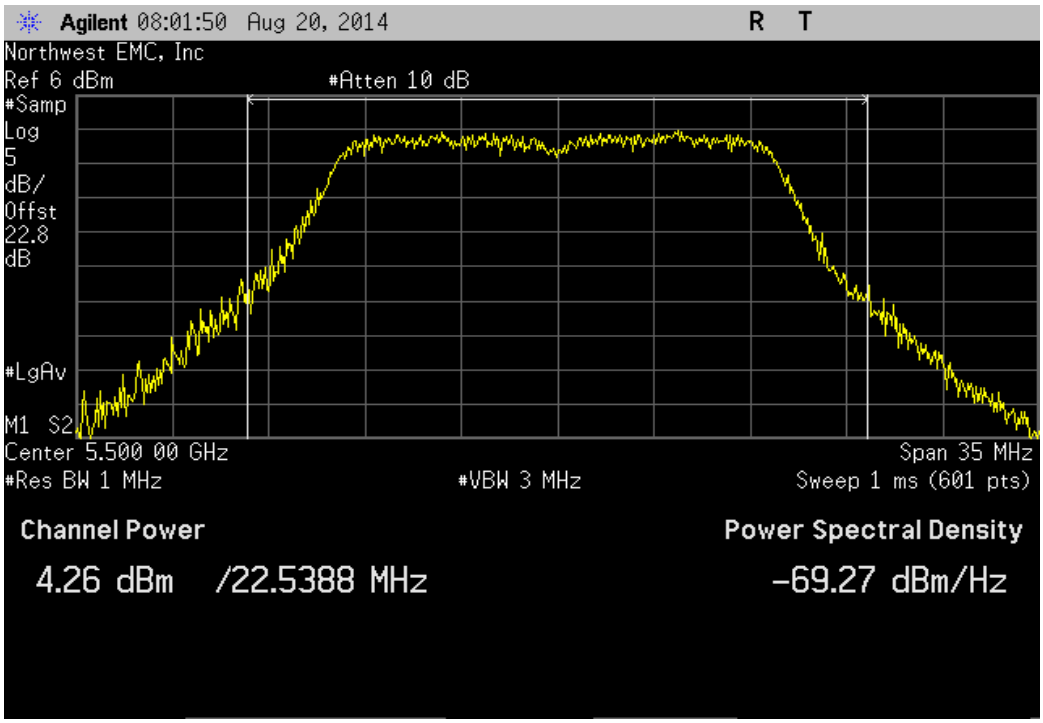
Port 1, 802.11(a) 6 Mbps, Ch 52, Low Channel 5260 MHz						
				Value	Limit (<)	Result
				11.384 dBm	24 dBm	Pass



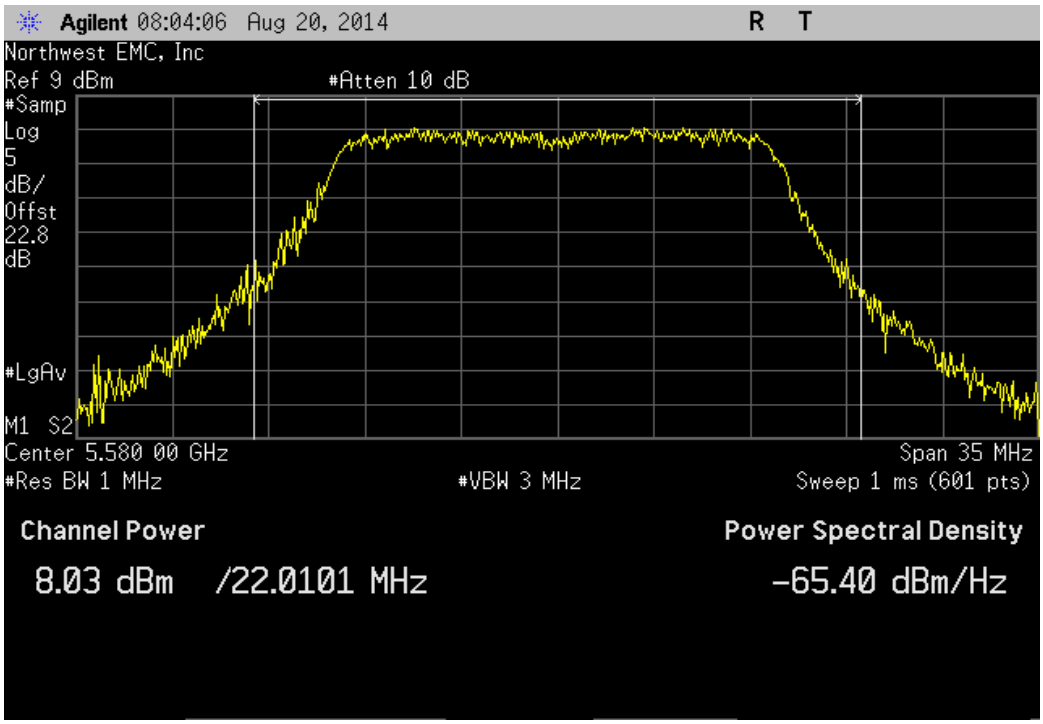
Port 1, 802.11(a) 6 Mbps, Ch 64, High Channel 5320 MHz						
				Value	Limit (<)	Result
				10.789 dBm	24 dBm	Pass



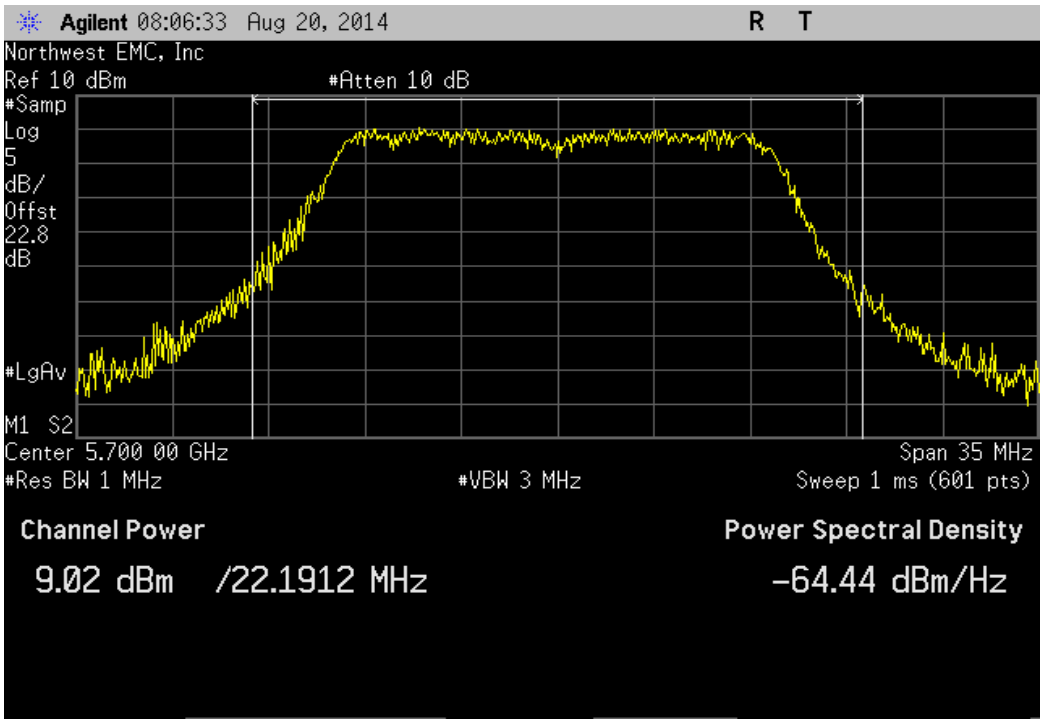
Port 1, 802.11(a) 6 Mbps, Ch 100, Low Channel 5500 MHz						
				Value	Limit (<)	Result
				4.257 dBm	24 dBm	Pass



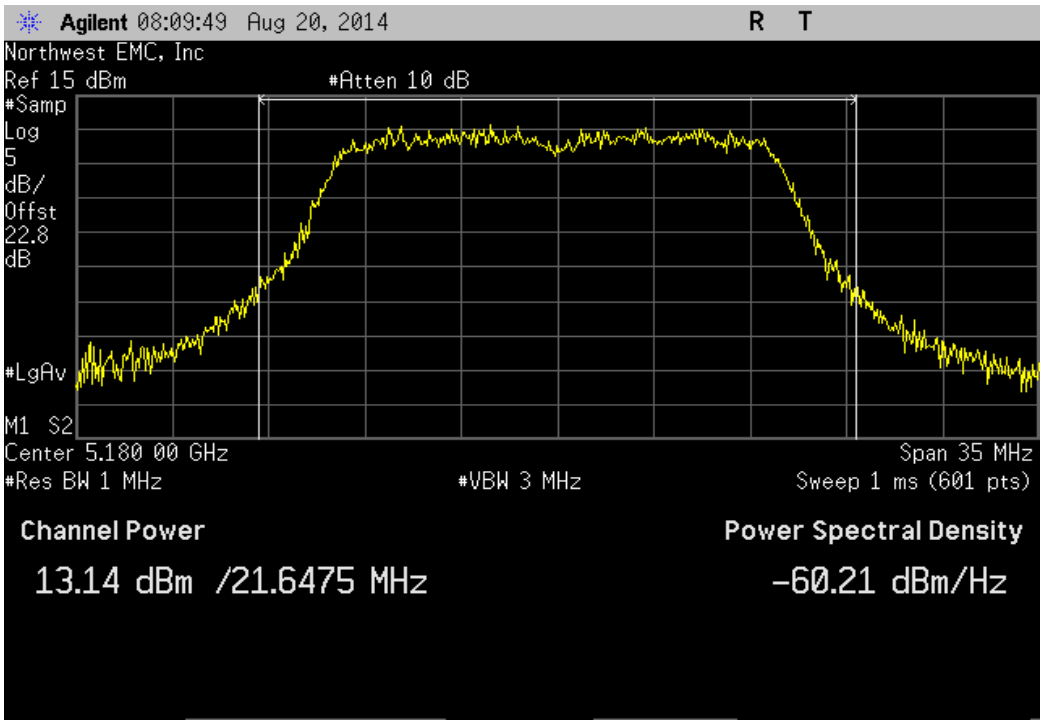
Port 1, 802.11(a) 6 Mbps, Ch 116, Mid Channel 5580 MHz						
				Value	Limit (<)	Result
				8.03 dBm	24 dBm	Pass



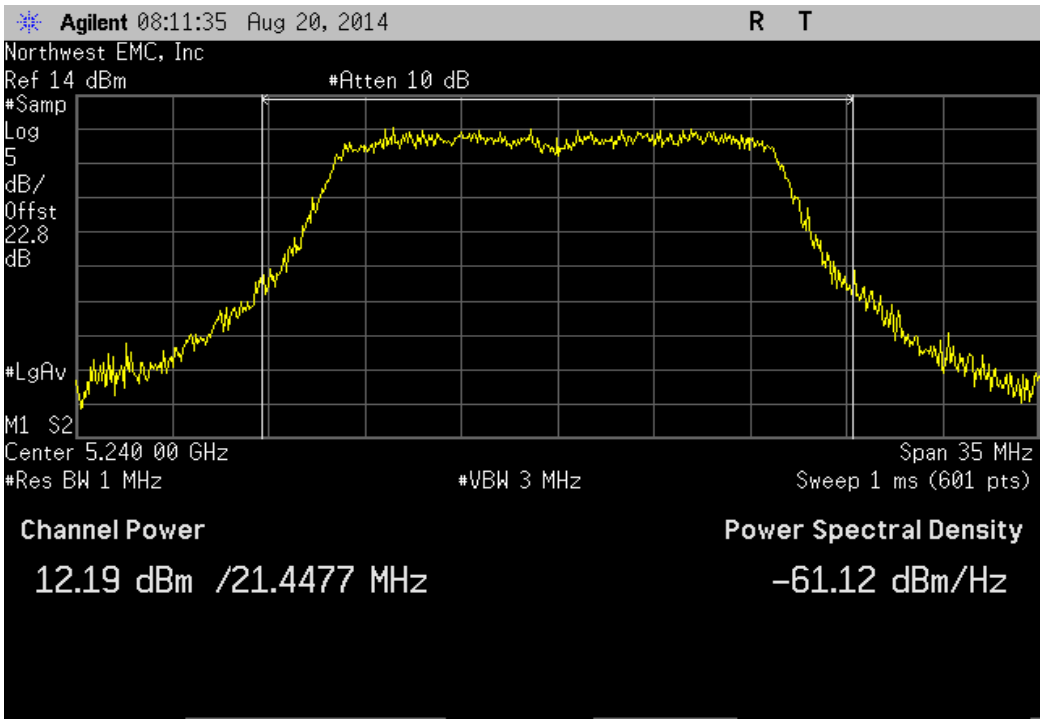
Port 1, 802.11(a) 6 Mbps, Ch 140, High Channel 5700 MHz							
					Value	Limit (<)	Result
					9.018 dBm	24 dBm	Pass



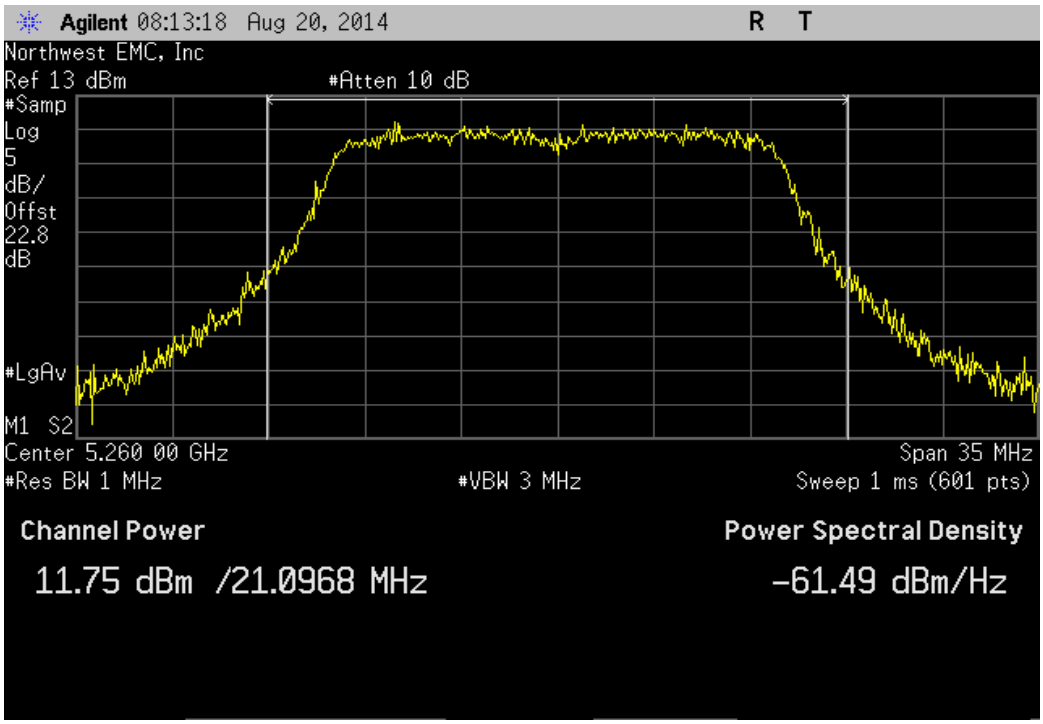
Port 1, 802.11(a) 36 Mbps, Ch 36, Low Channel 5180 MHz							
					Value	Limit (<)	Result
					13.141 dBm	17 dBm	Pass



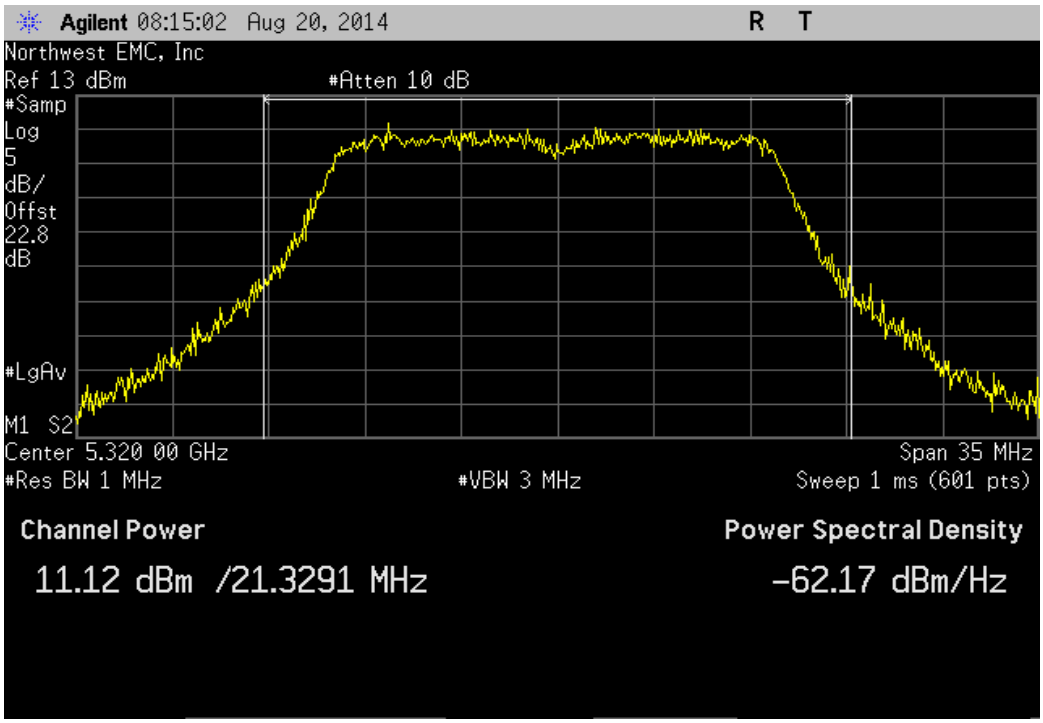
Port 1, 802.11(a) 36 Mbps, Ch 48, High Channel 5240 MHz						
				Value	Limit (<)	Result
				12.193 dBm	17 dBm	Pass



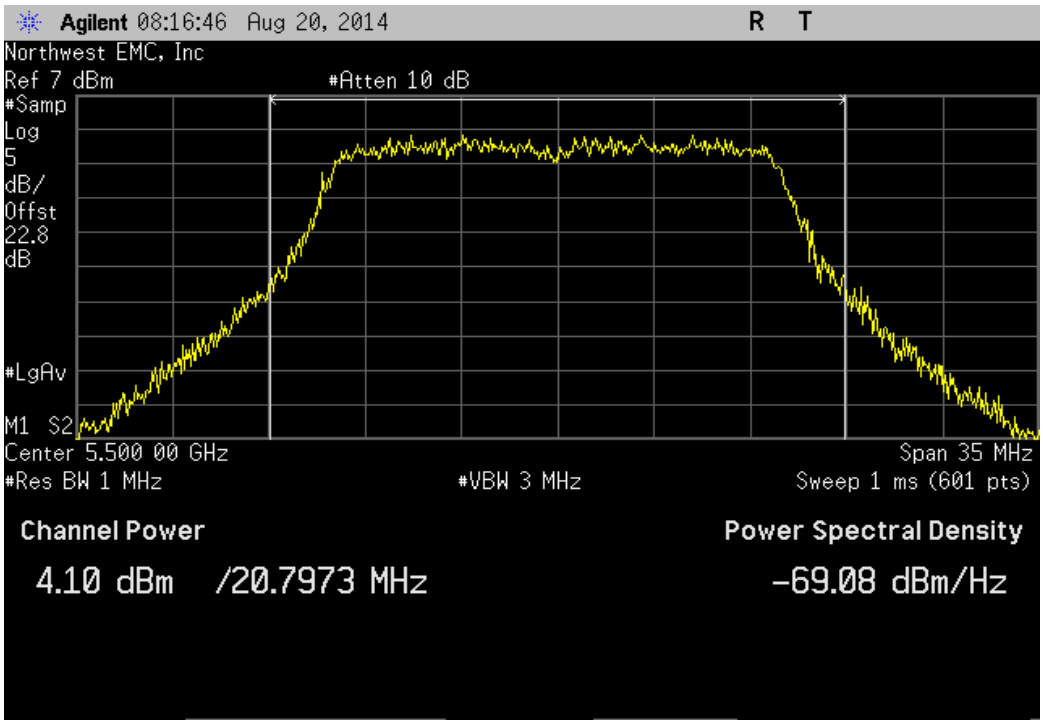
Port 1, 802.11(a) 36 Mbps, Ch 52, Low Channel 5260 MHz						
				Value	Limit (<)	Result
				11.751 dBm	24 dBm	Pass



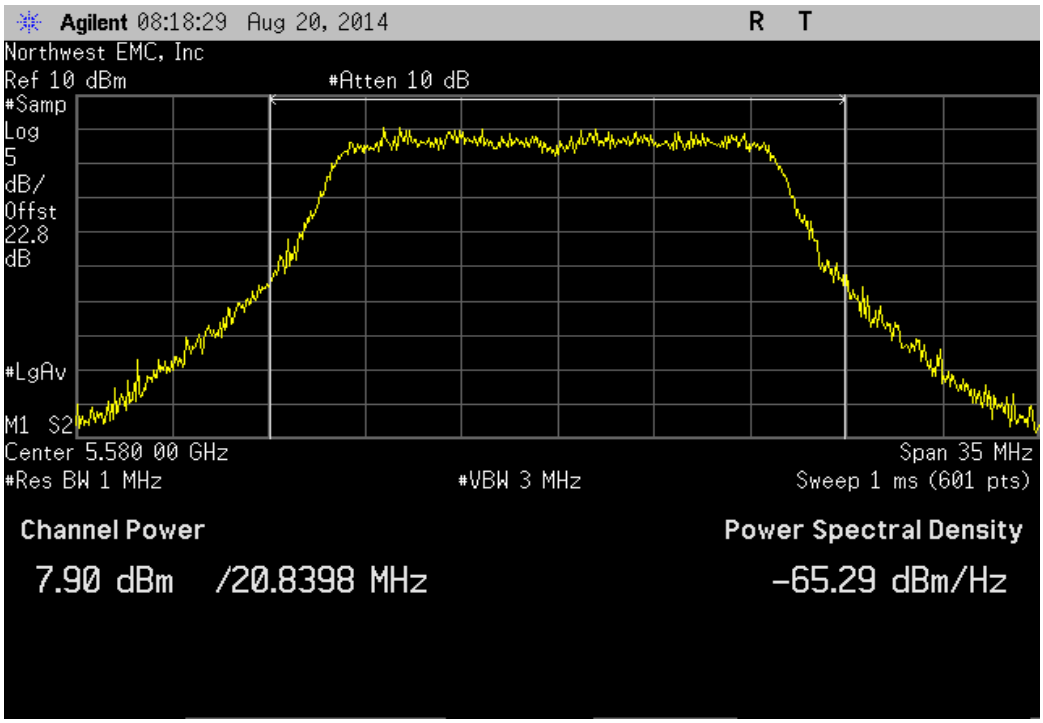
Port 1, 802.11(a) 36 Mbps, Ch 64, High Channel 5320 MHz						
				Value	Limit (<)	Result
				11.115 dBm	24 dBm	Pass



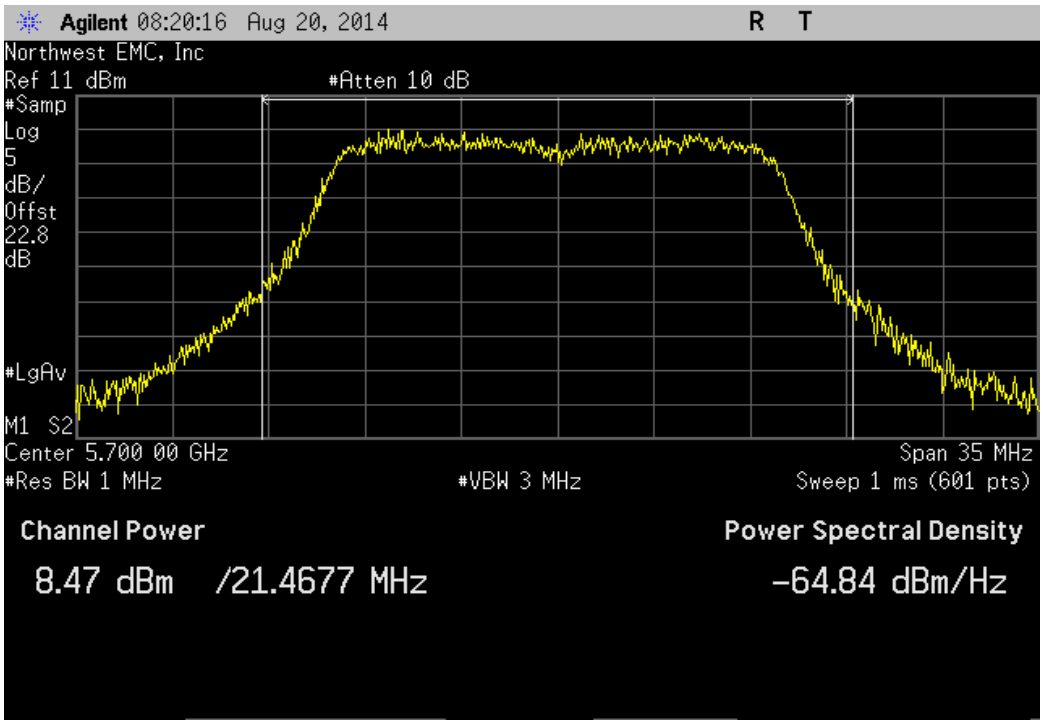
Port 1, 802.11(a) 36 Mbps, Ch 100, Low Channel 5500 MHz						
				Value	Limit (<)	Result
				4.099 dBm	24 dBm	Pass



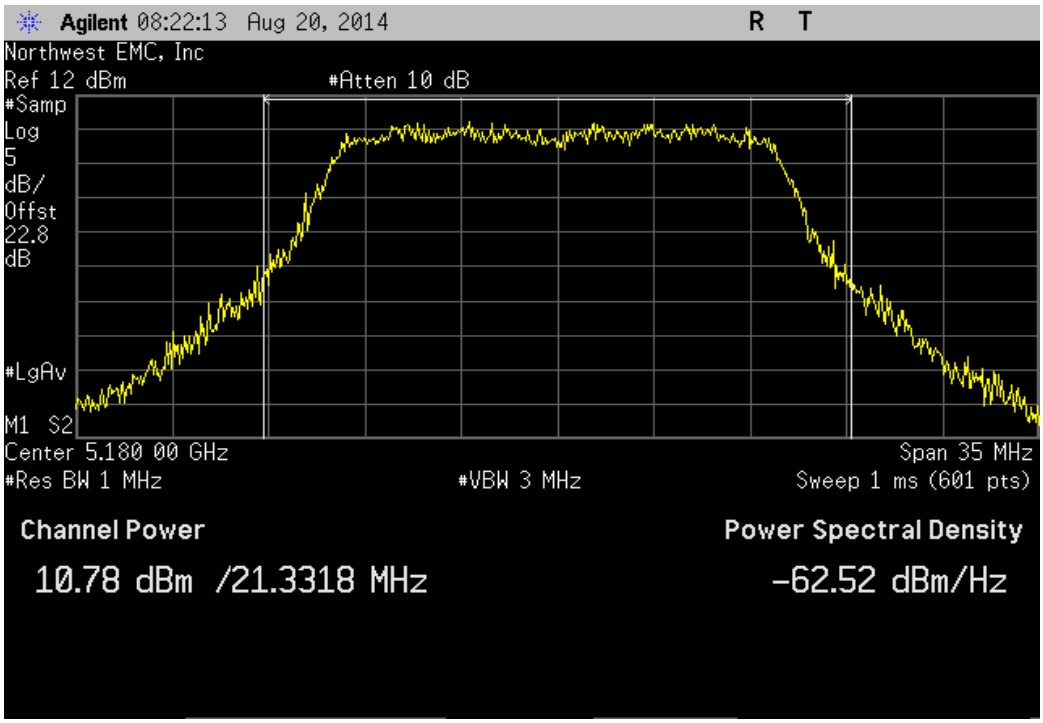
Port 1, 802.11(a) 36 Mbps, Ch 116, Mid Channel 5580 MHz						
				Value	Limit (<)	Result
				7.903 dBm	24 dBm	Pass



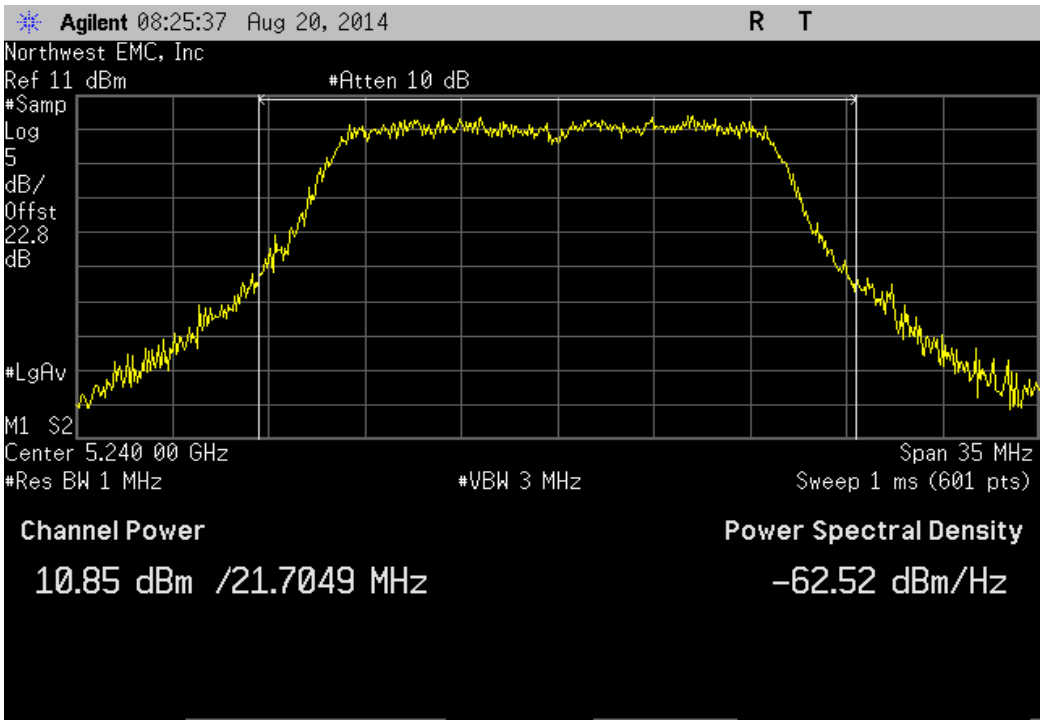
Port 1, 802.11(a) 36 Mbps, Ch 140, High Channel 5700 MHz						
				Value	Limit (<)	Result
				8.475 dBm	24 dBm	Pass



Port 1, 802.11(a) 54 Mbps, Ch 36, Low Channel 5180 MHz							
					Value	Limit (<)	Result
					10.775 dBm	17 dBm	Pass

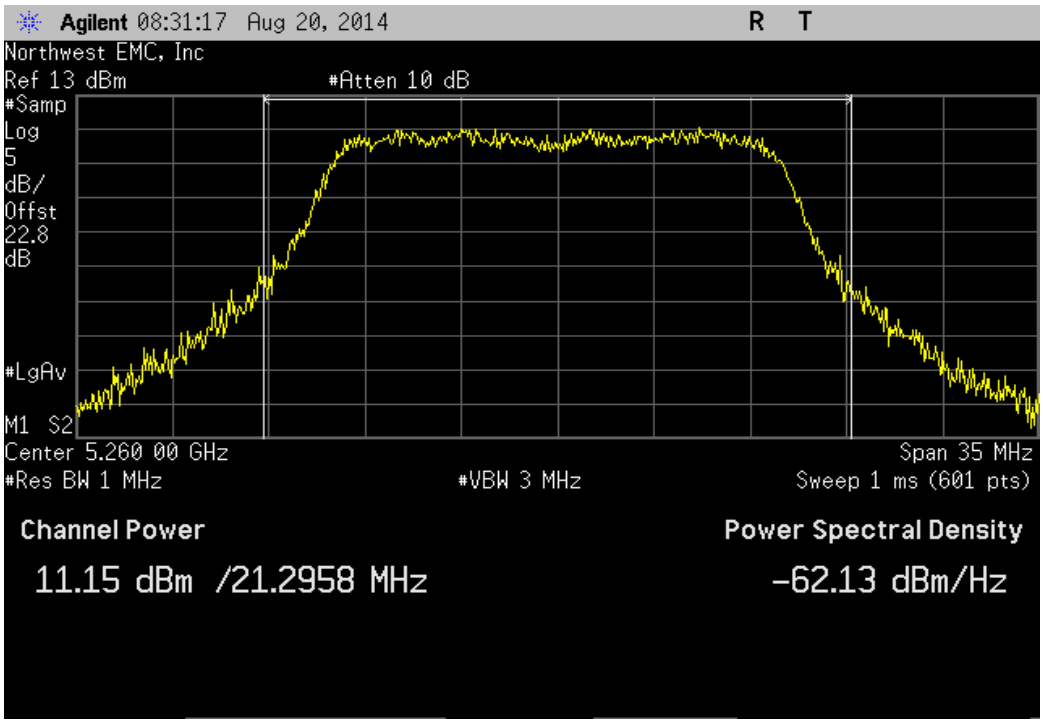


Port 1, 802.11(a) 54 Mbps, Ch 48, High Channel 5240 MHz							
					Value	Limit (<)	Result
					10.847 dBm	17 dBm	Pass

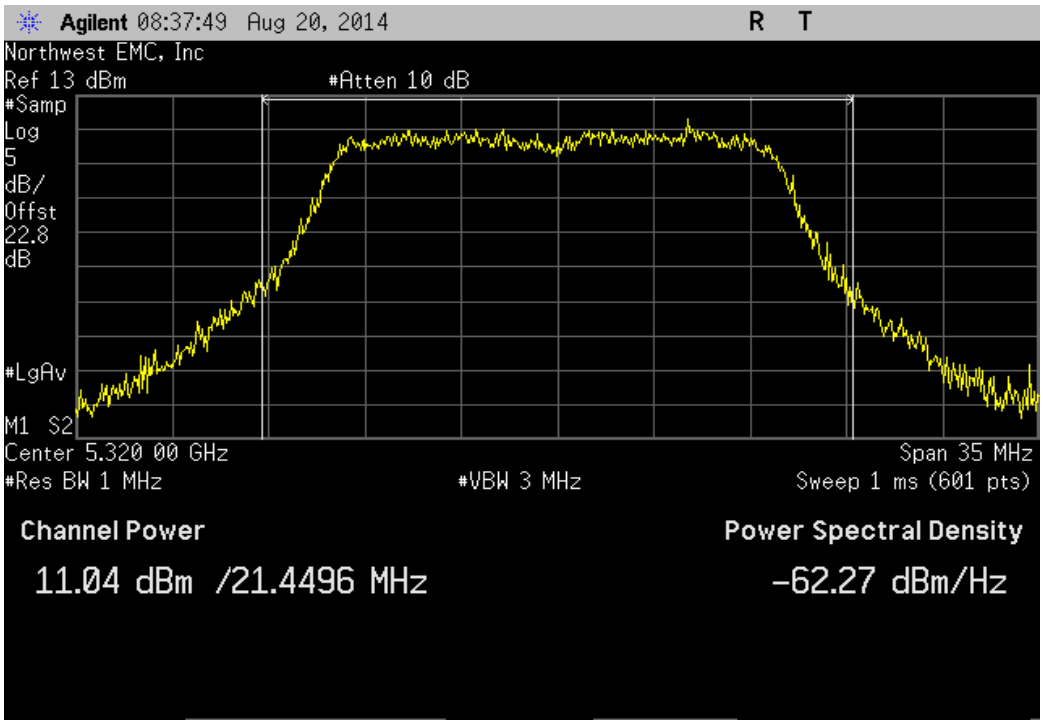


PEAK TRANSMIT POWER

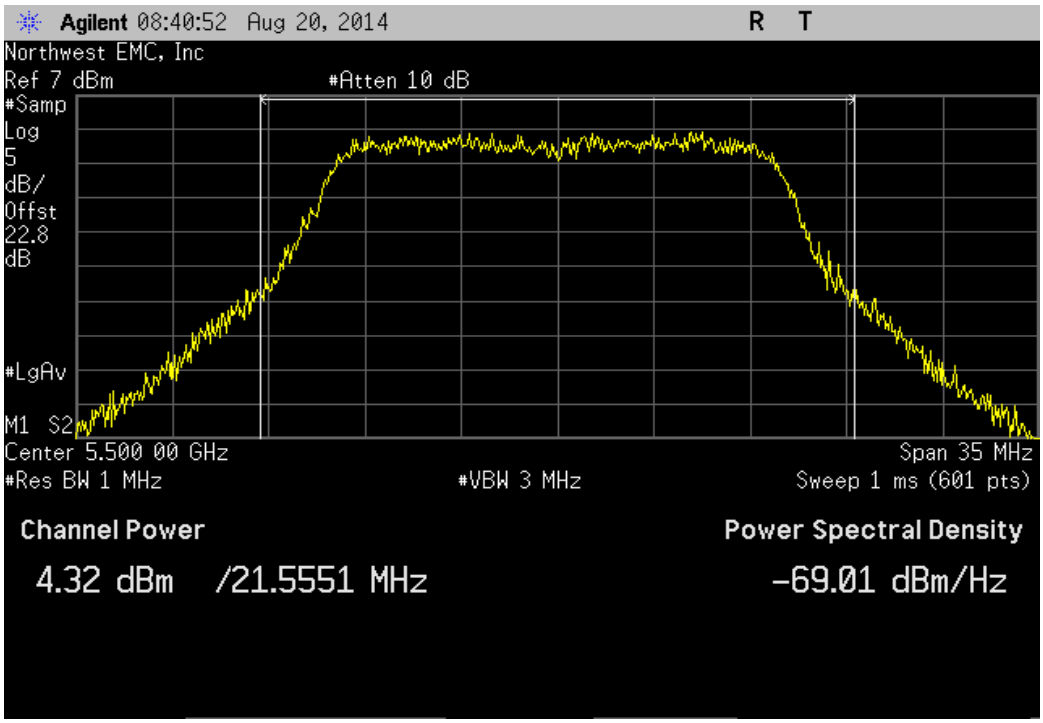
Port 1, 802.11(a) 54 Mbps, Ch 52, Low Channel 5260 MHz						
				Value	Limit (<)	Result
				11.155 dBm	24 dBm	Pass



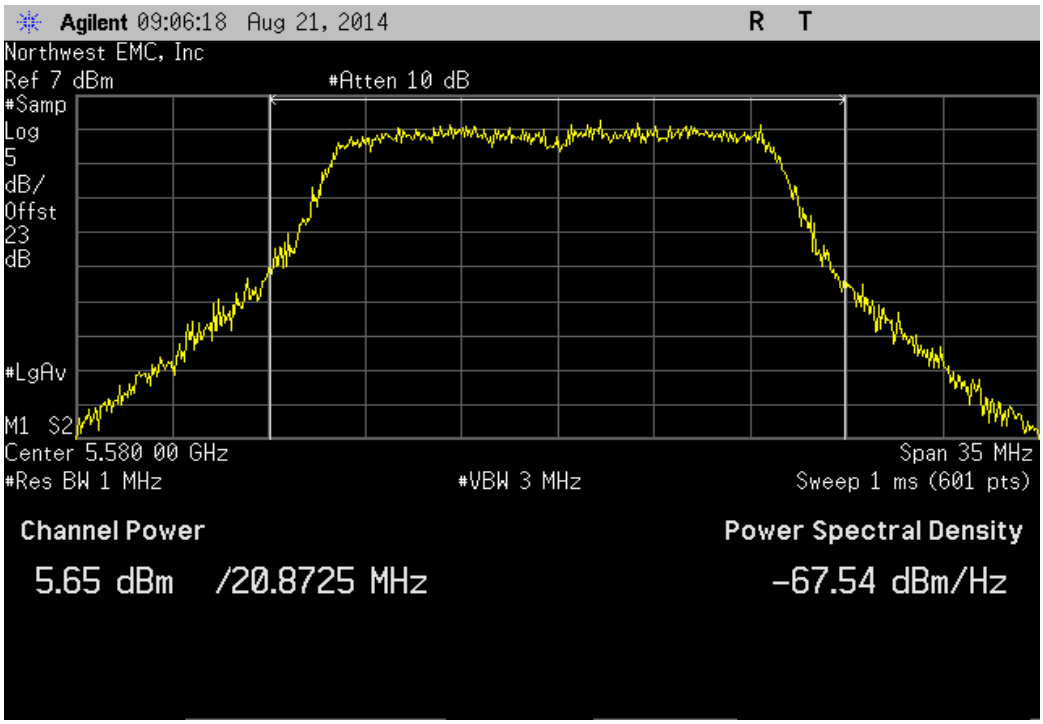
Port 1, 802.11(a) 54 Mbps, Ch 64, High Channel 5320 MHz						
				Value	Limit (<)	Result
				11.039 dBm	24 dBm	Pass



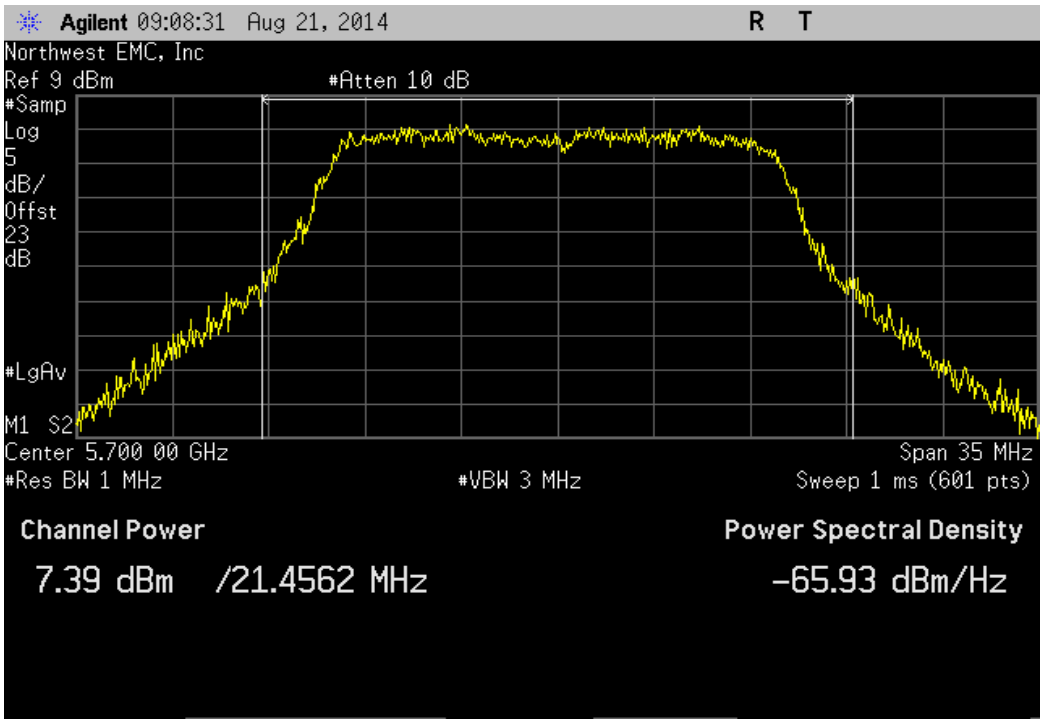
Port 1, 802.11(a) 54 Mbps, Ch 100, Low Channel 5500 MHz						
				Value	Limit (<)	Result
				4.325 dBm	24 dBm	Pass



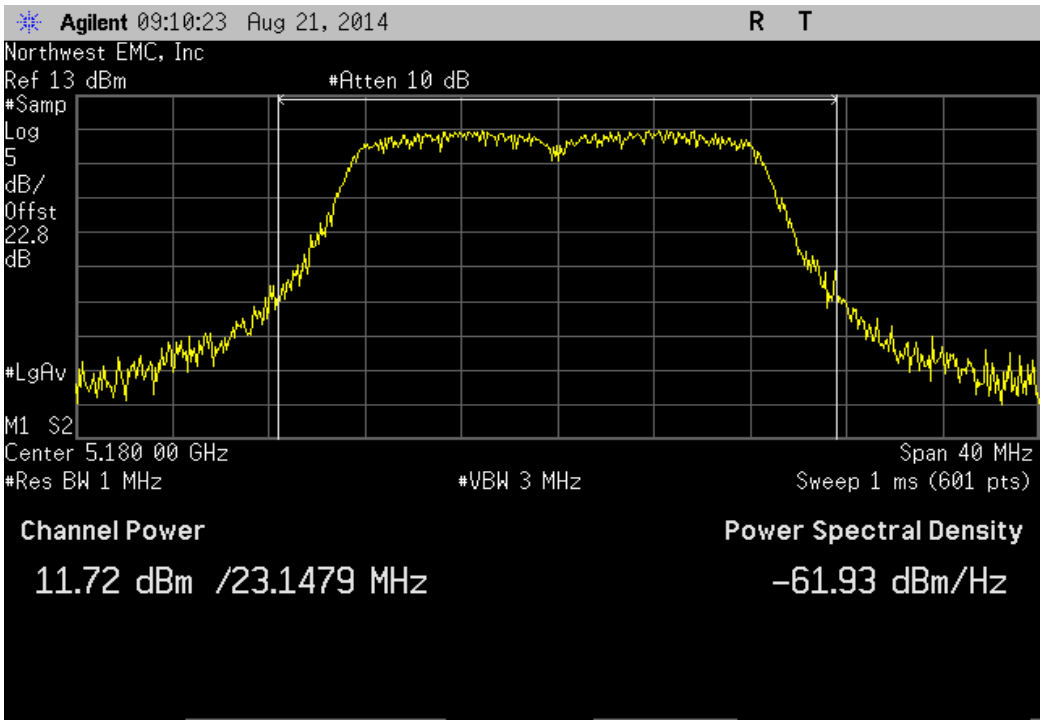
Port 1, 802.11(a) 54 Mbps, Ch 116, Mid Channel 5580 MHz						
				Value	Limit (<)	Result
				5.651 dBm	24 dBm	Pass



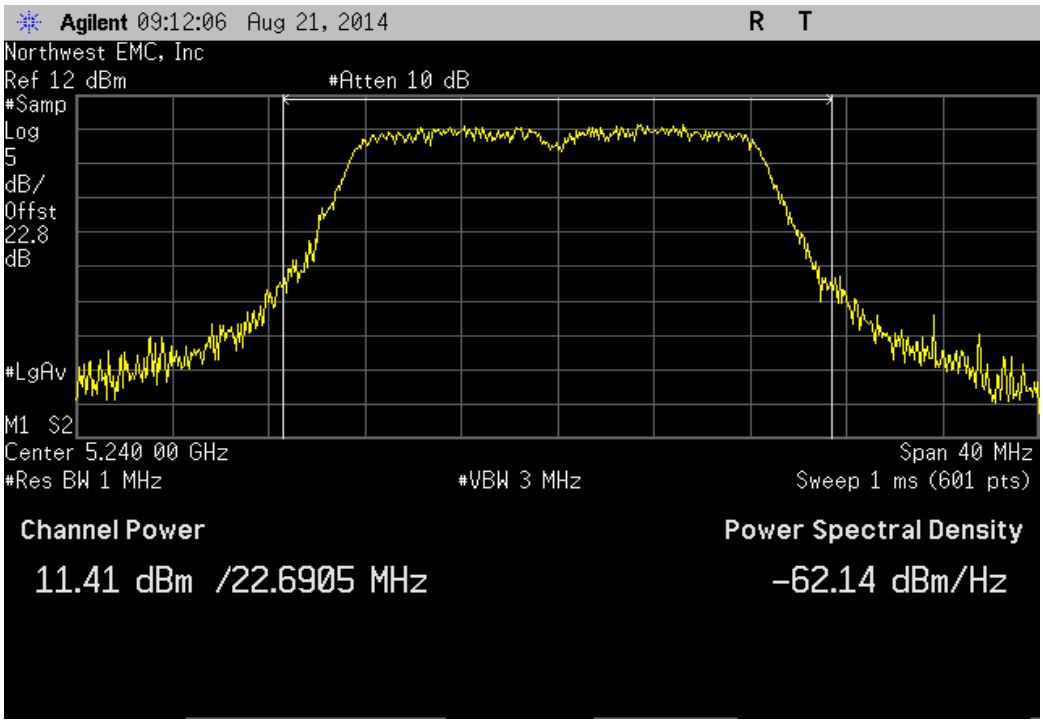
Port 1, 802.11(a) 54 Mbps, Ch 140, High Channel 5700 MHz							
					Value	Limit (<)	Result
					7.386 dBm	24 dBm	Pass



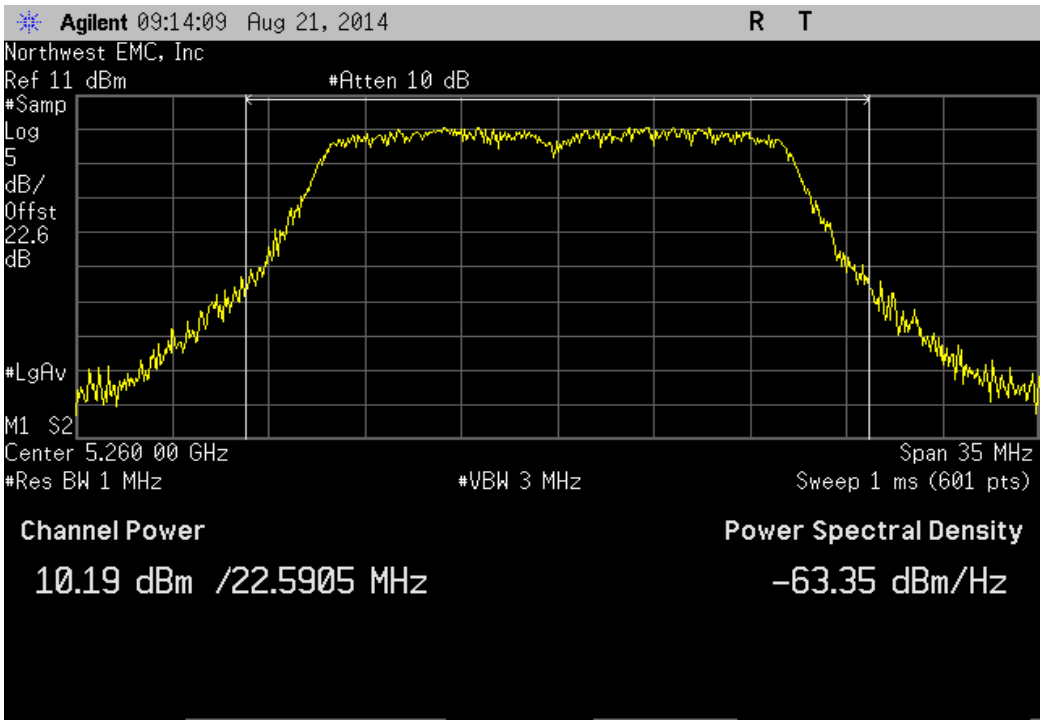
Port 1, 802.11(n) MCS0, Ch 36, Low Channel 5180 MHz							
					Value	Limit (<)	Result
					11.716 dBm	17 dBm	Pass



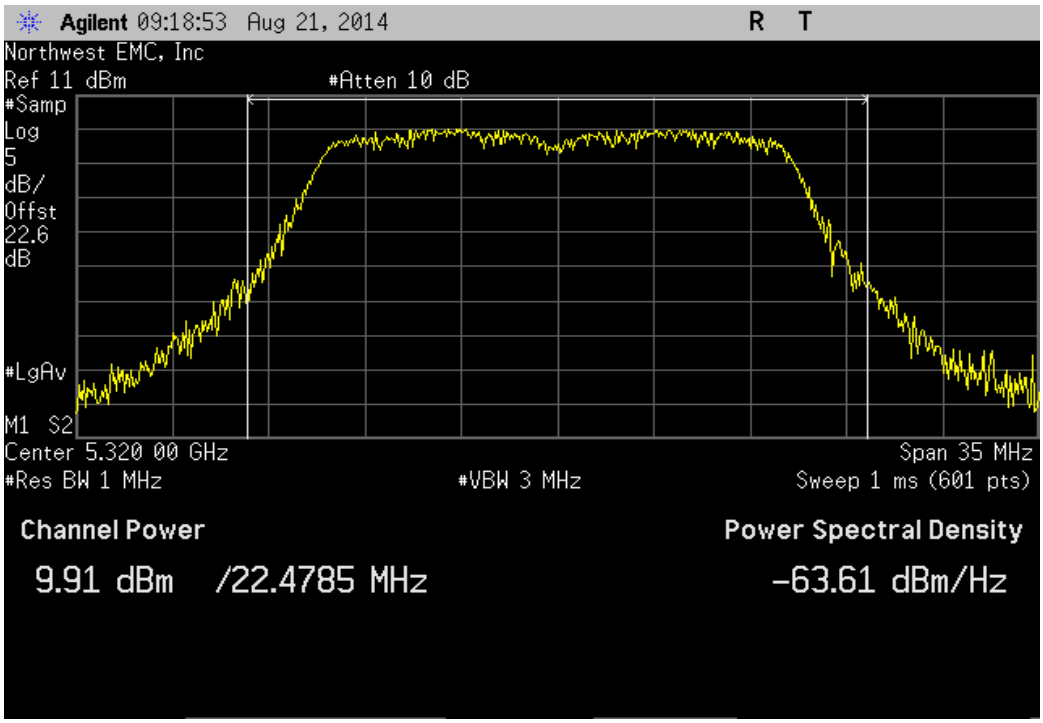
Port 1, 802.11(n) MCS0, Ch 48, High Channel 5240 MHz						
				Value	Limit (<)	Result
				11.414 dBm	17 dBm	Pass



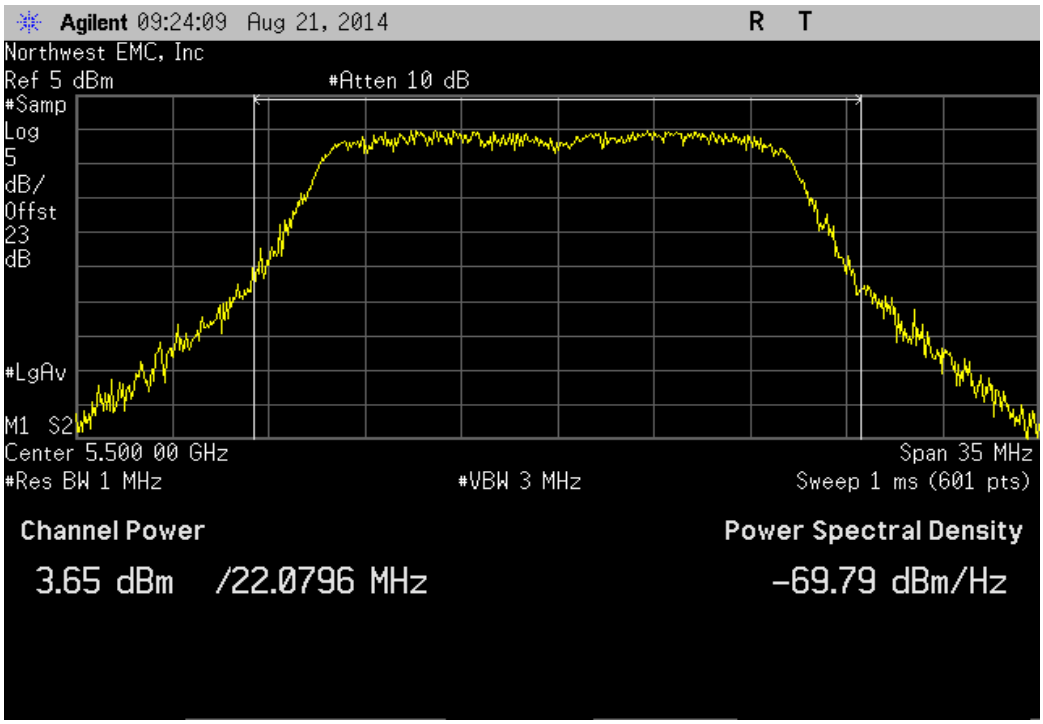
Port 1, 802.11(n) MCS0, Ch 52, Low Channel 5260 MHz						
				Value	Limit (<)	Result
				10.193 dBm	24 dBm	Pass



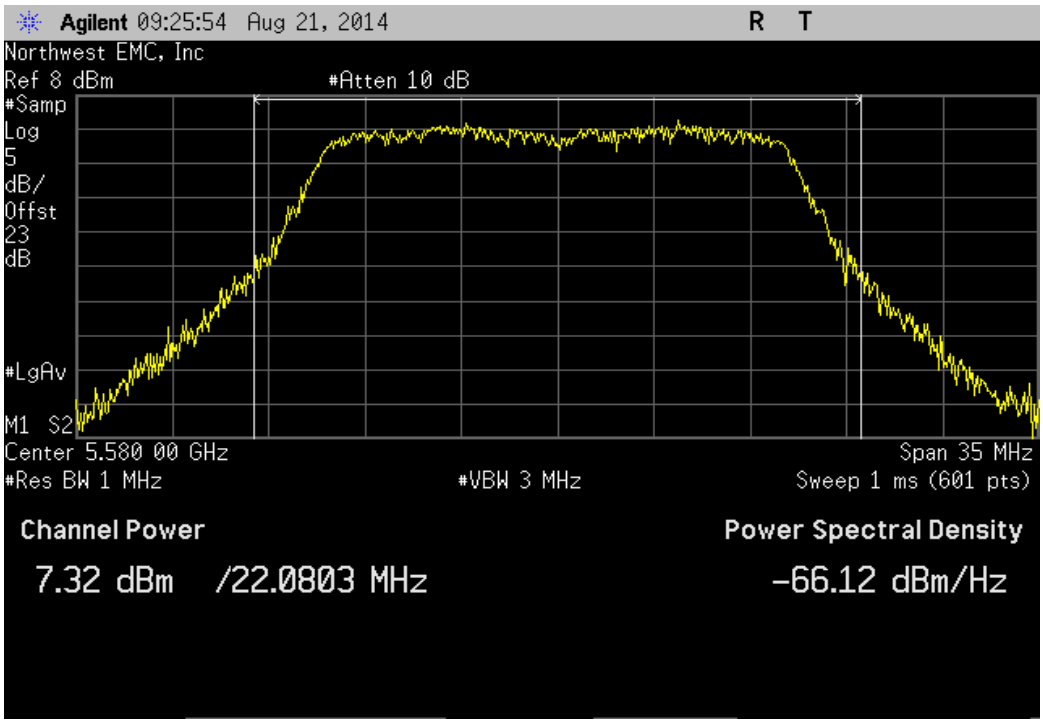
Port 1, 802.11(n) MCS0, Ch 64, High Channel 5320 MHz						
				Value	Limit (<)	Result
				9.913 dBm	24 dBm	Pass



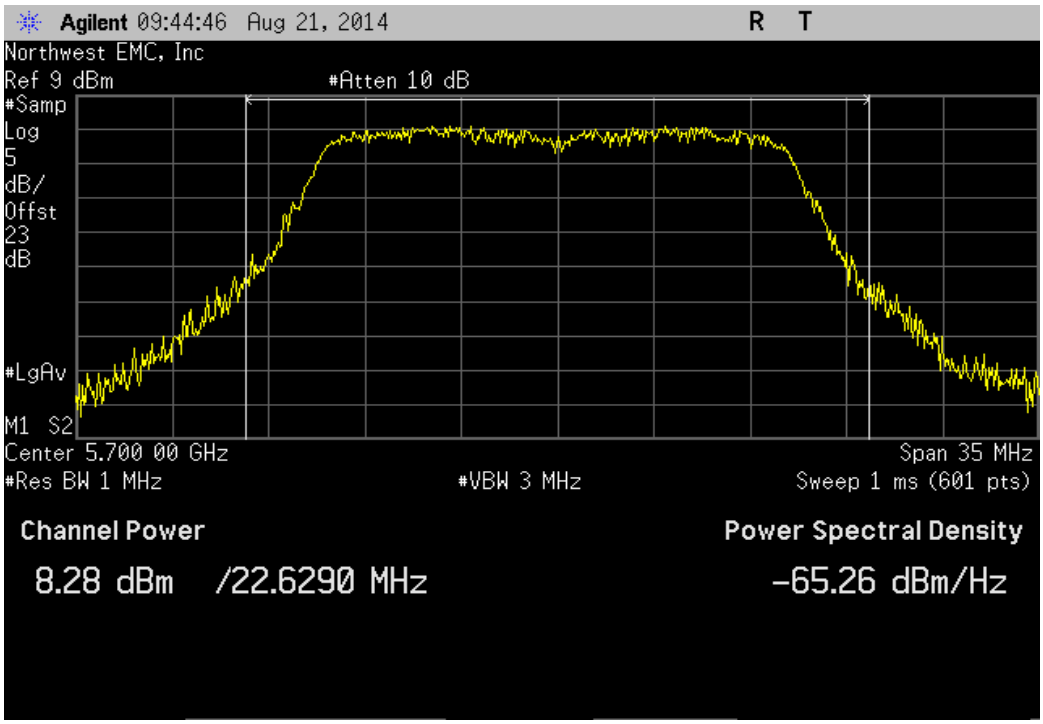
Port 1, 802.11(n) MCS0, Ch 100, Low Channel 5500 MHz						
				Value	Limit (<)	Result
				3.65 dBm	24 dBm	Pass



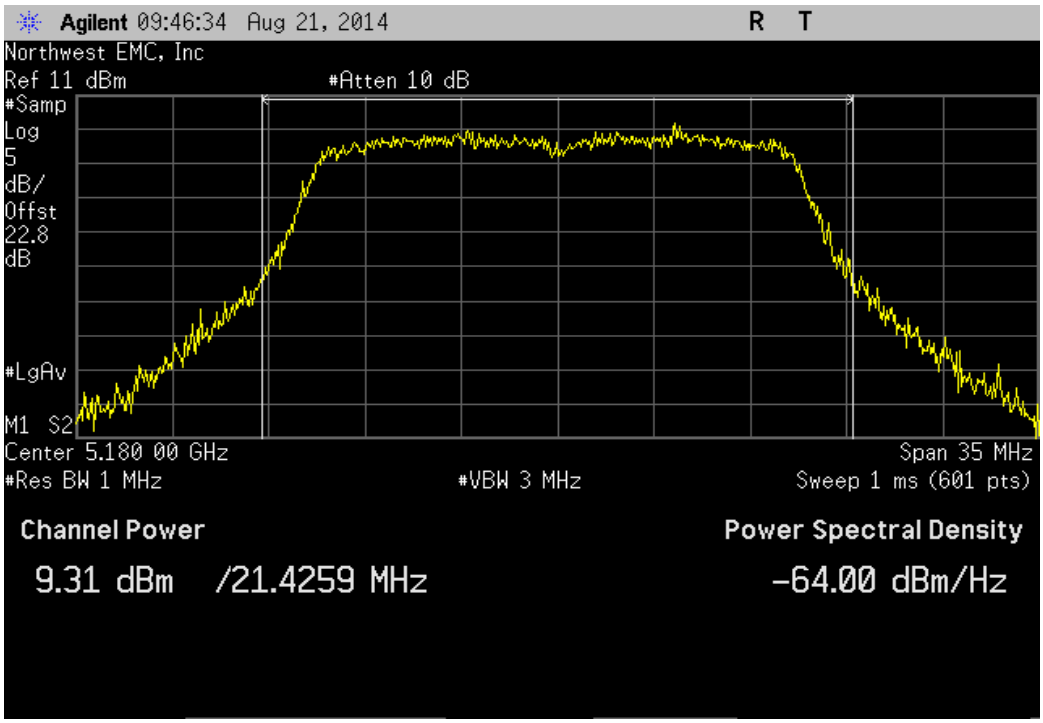
Port 1, 802.11(n) MCS0, Ch 116, Mid Channel 5580 MHz						
				Value	Limit (<)	Result
				7.325 dBm	24 dBm	Pass



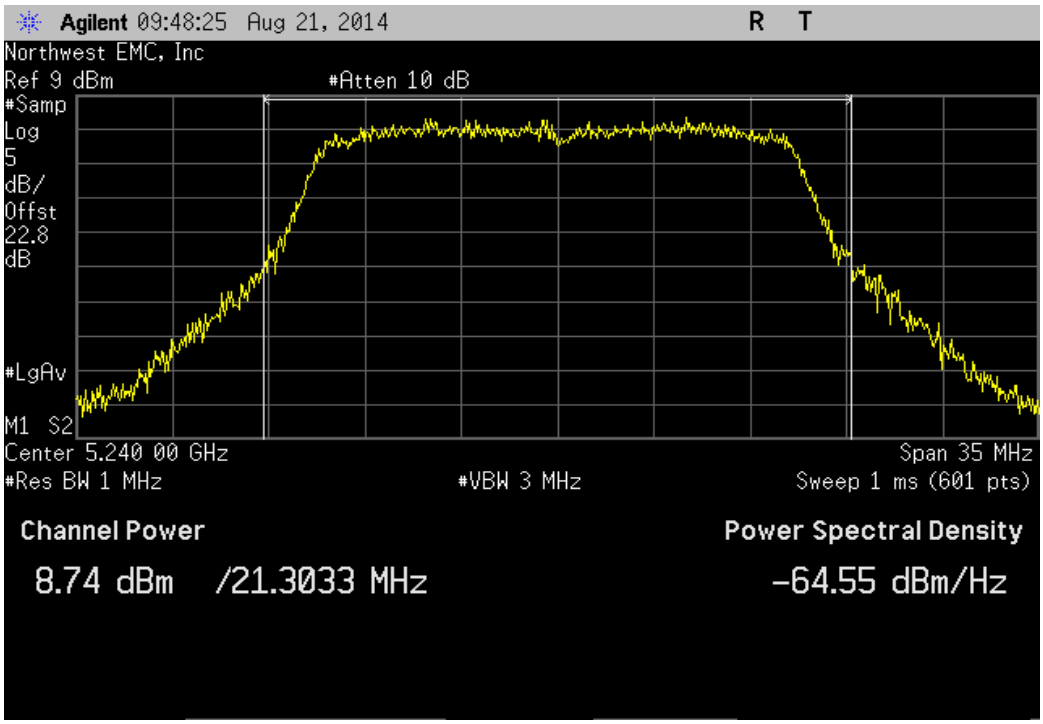
Port 1, 802.11(n) MCS0, Ch 140, High Channel 5700 MHz						
				Value	Limit (<)	Result
				8.285 dBm	24 dBm	Pass



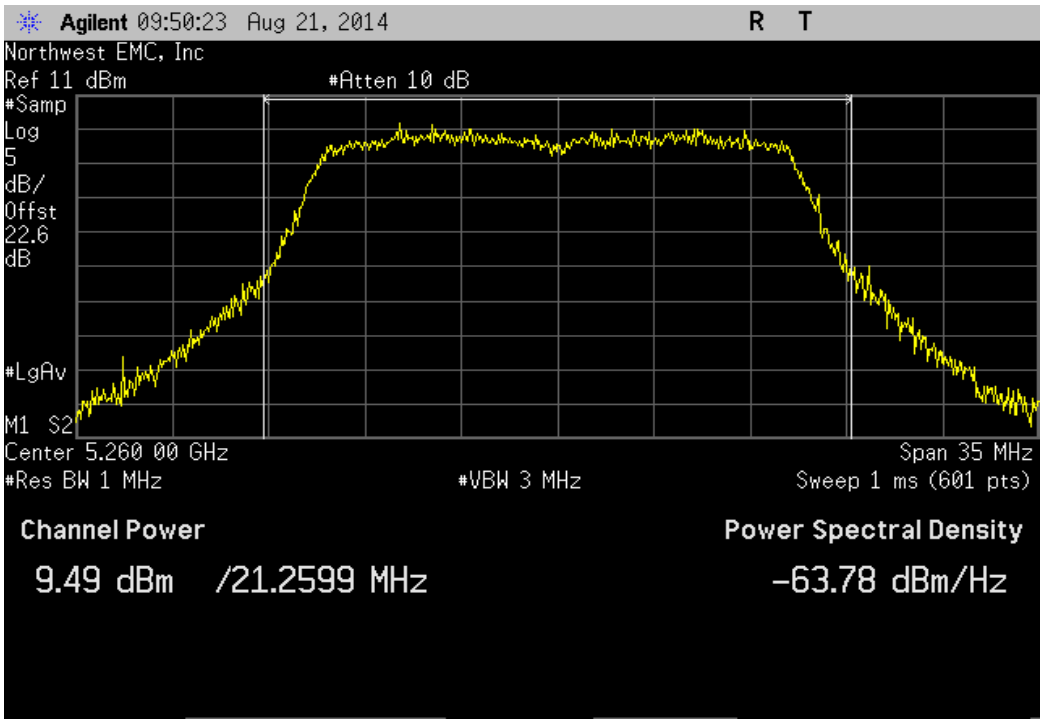
Port 1, 802.11(n) MCS7, Ch 36, Low Channel 5180 MHz							
					Value	Limit (<)	Result
					9.307 dBm	17 dBm	Pass



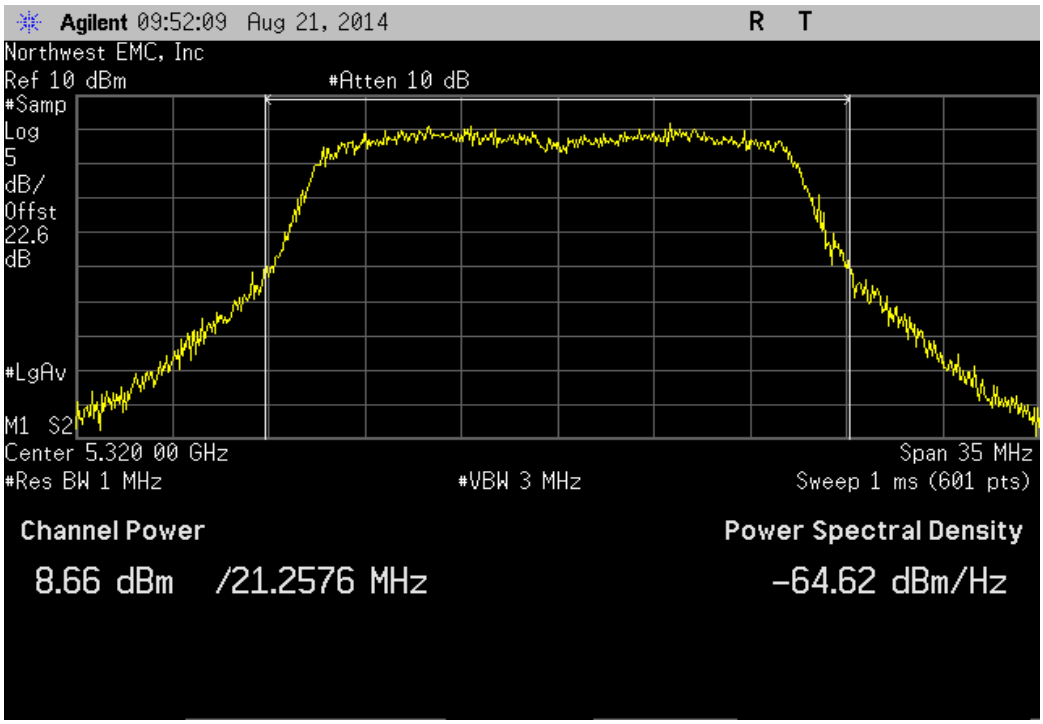
Port 1, 802.11(n) MCS7, Ch 48, High Channel 5240 MHz							
					Value	Limit (<)	Result
					8.737 dBm	17 dBm	Pass



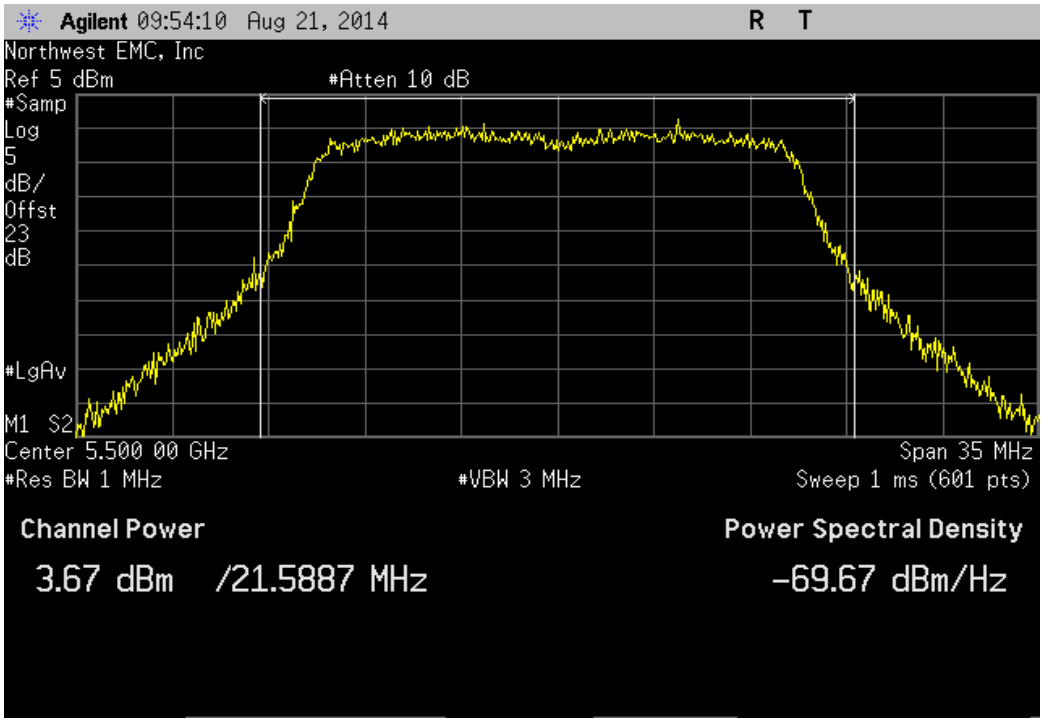
Port 1, 802.11(n) MCS7, Ch 52, Low Channel 5260 MHz						
				Value	Limit (<)	Result
				9.494 dBm	24 dBm	Pass



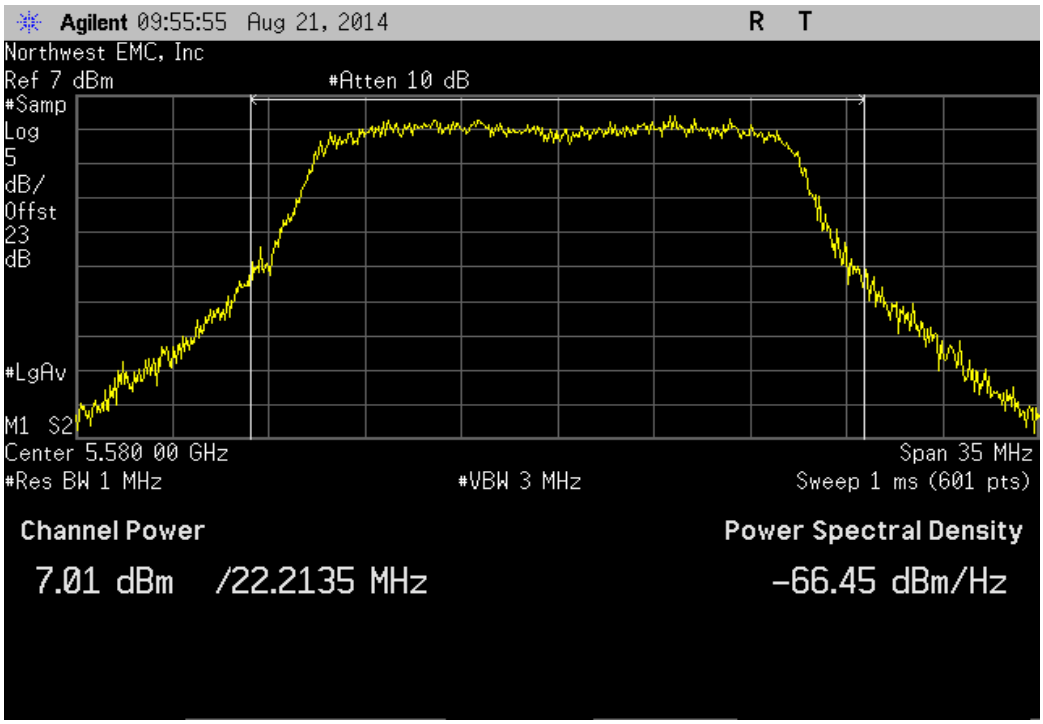
Port 1, 802.11(n) MCS7, Ch 64, High Channel 5320 MHz						
				Value	Limit (<)	Result
				8.658 dBm	24 dBm	Pass



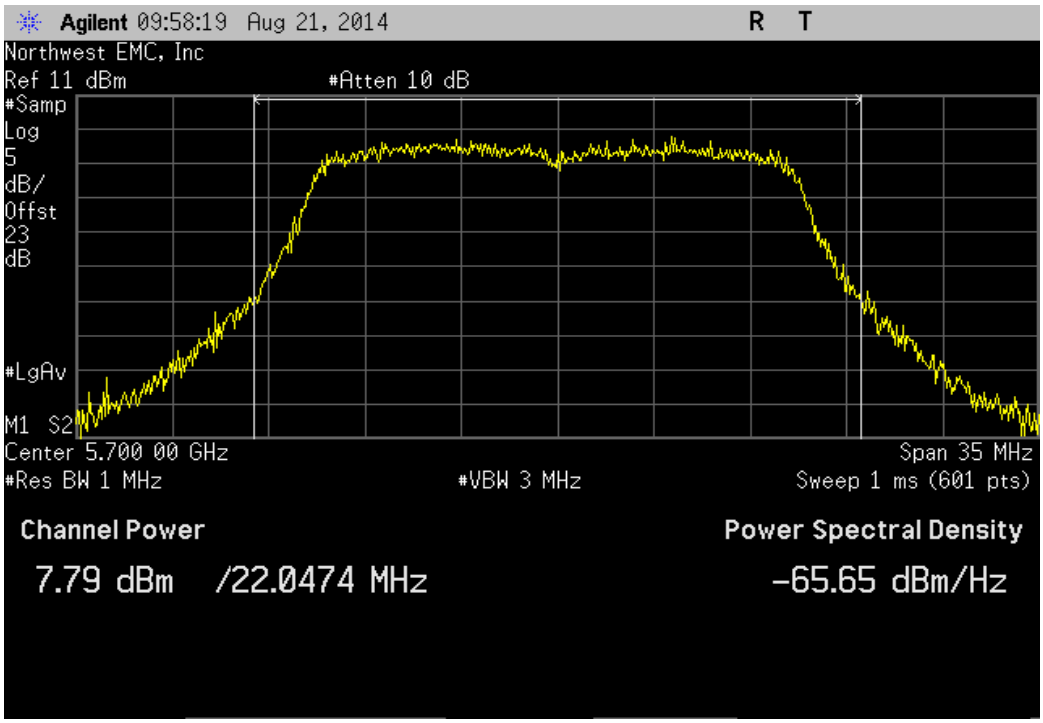
Port 1, 802.11(n) MCS7, Ch 100, Low Channel 5500 MHz						
				Value	Limit (<)	Result
				3.668 dBm	24 dBm	Pass



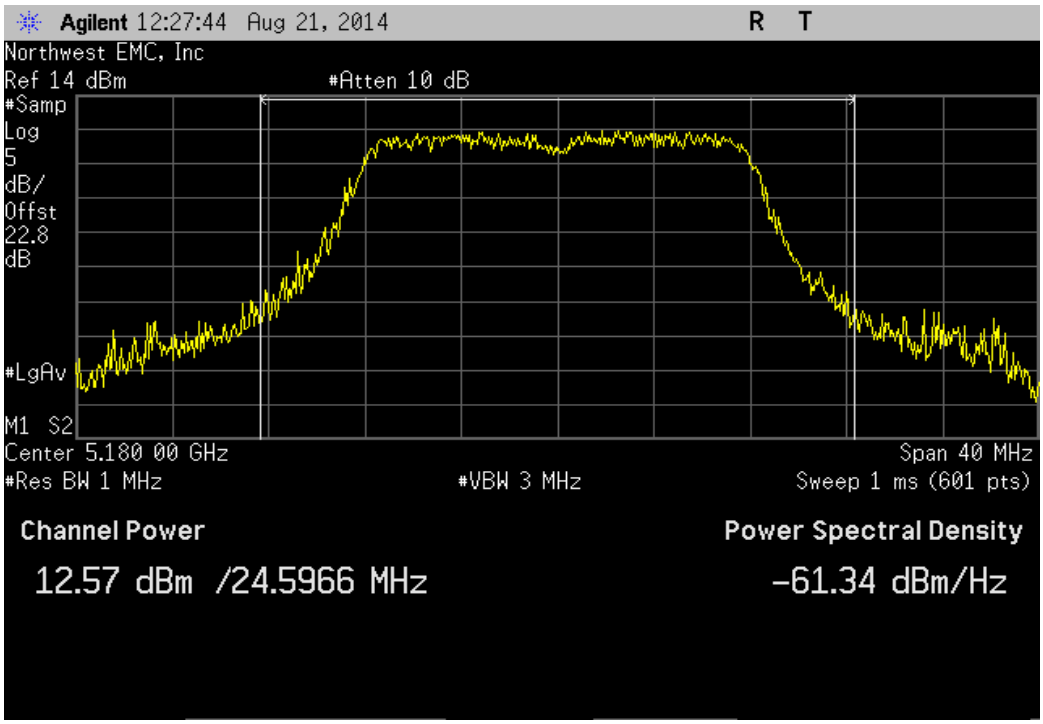
Port 1, 802.11(n) MCS7, Ch 116, Mid Channel 5580 MHz						
				Value	Limit (<)	Result
				7.014 dBm	24 dBm	Pass



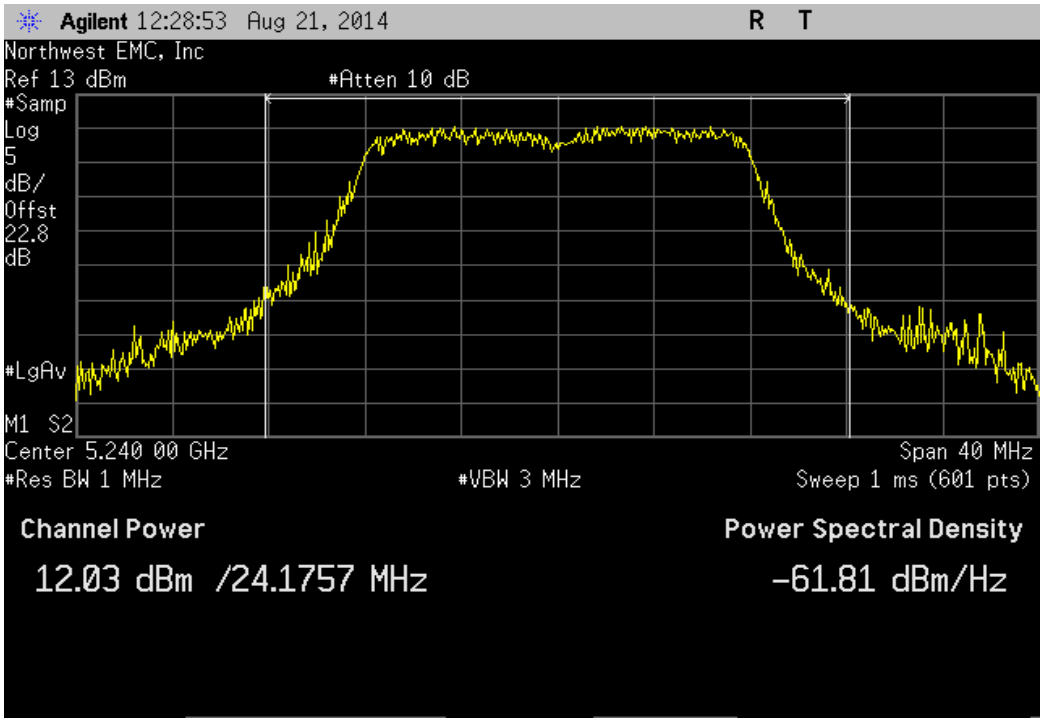
Port 1, 802.11(n) MCS7, Ch 140, High Channel 5700 MHz						
				Value	Limit (<)	Result
				7.786 dBm	24 dBm	Pass



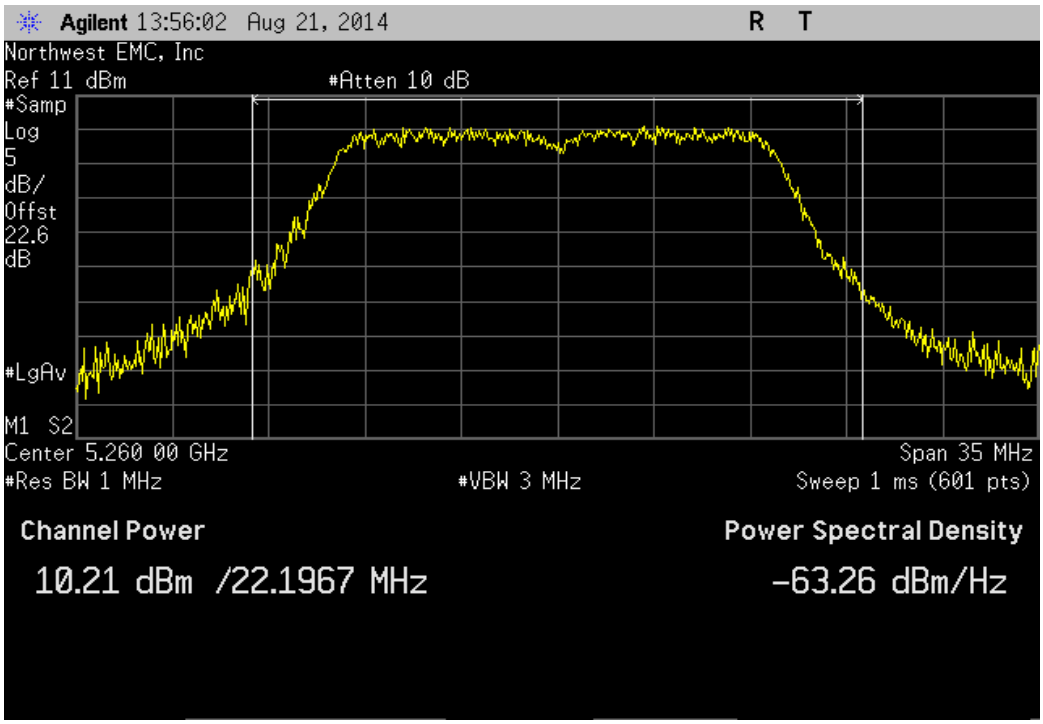
Port 2, 802.11(a) 6 Mbps, Ch 36, Low Channel 5180 MHz						
				Value	Limit (<)	Result
				12.572 dBm	17 dBm	Pass



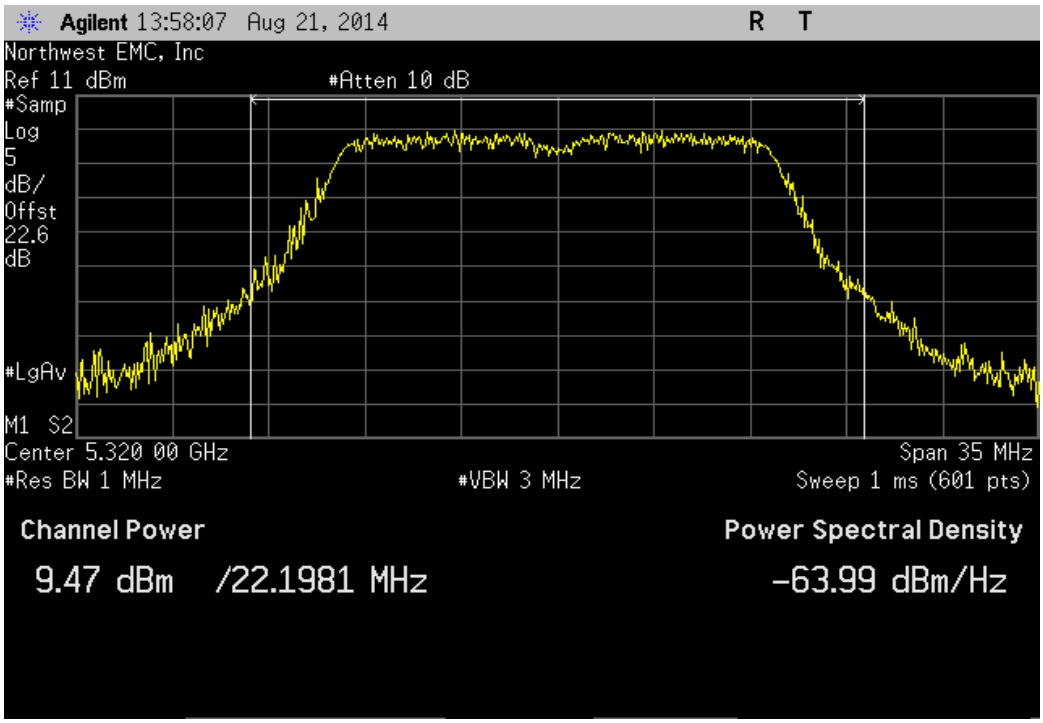
Port 2, 802.11(a) 6 Mbps, Ch 48, High Channel 5240 MHz						
				Value	Limit (<)	Result
				12.028 dBm	17 dBm	Pass



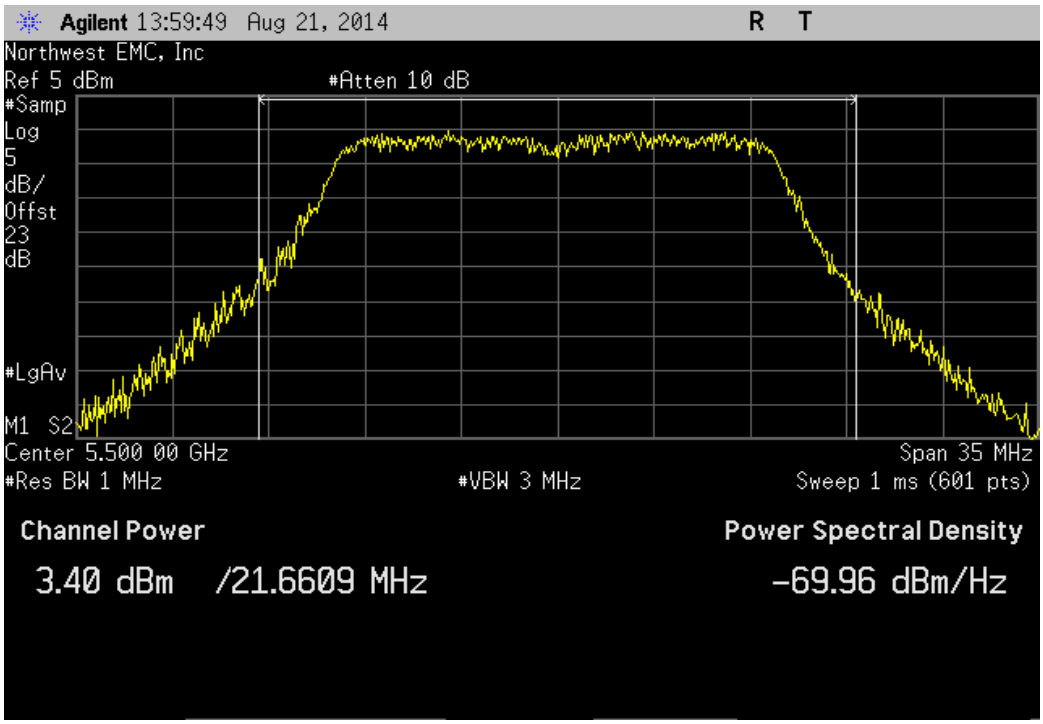
Port 2, 802.11(a) 6 Mbps, Ch 52, Low Channel 5260 MHz						
				Value	Limit (<)	Result
				10.208 dBm	24 dBm	Pass



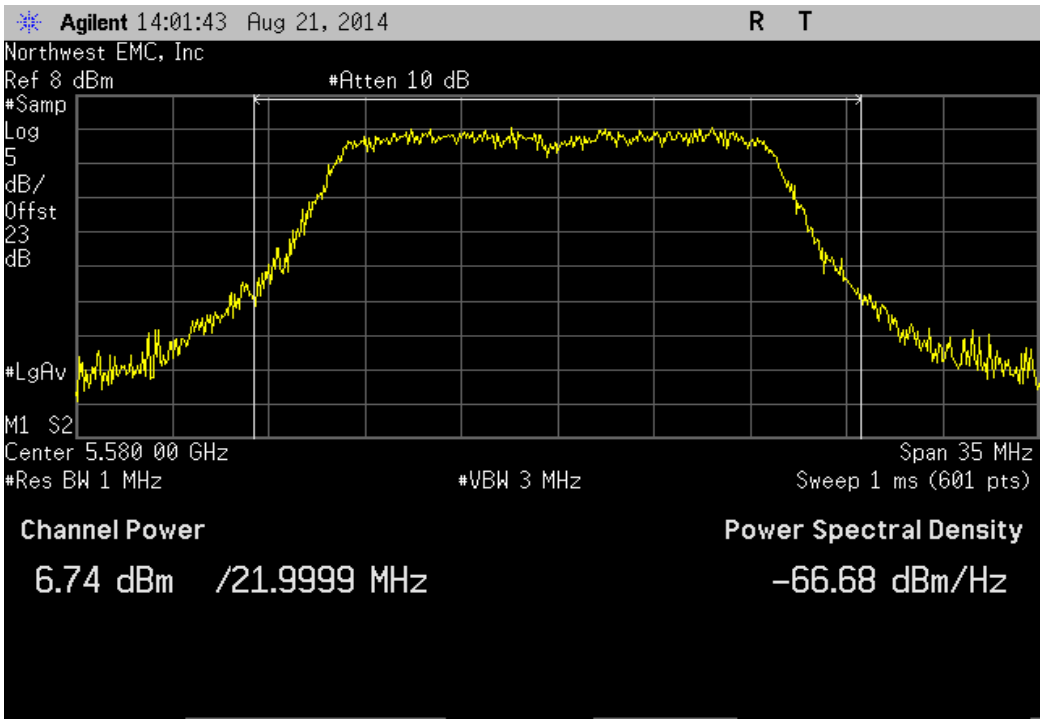
Port 2, 802.11(a) 6 Mbps, Ch 64, High Channel 5320 MHz						
				Value	Limit (<)	Result
				9.473 dBm	24 dBm	Pass



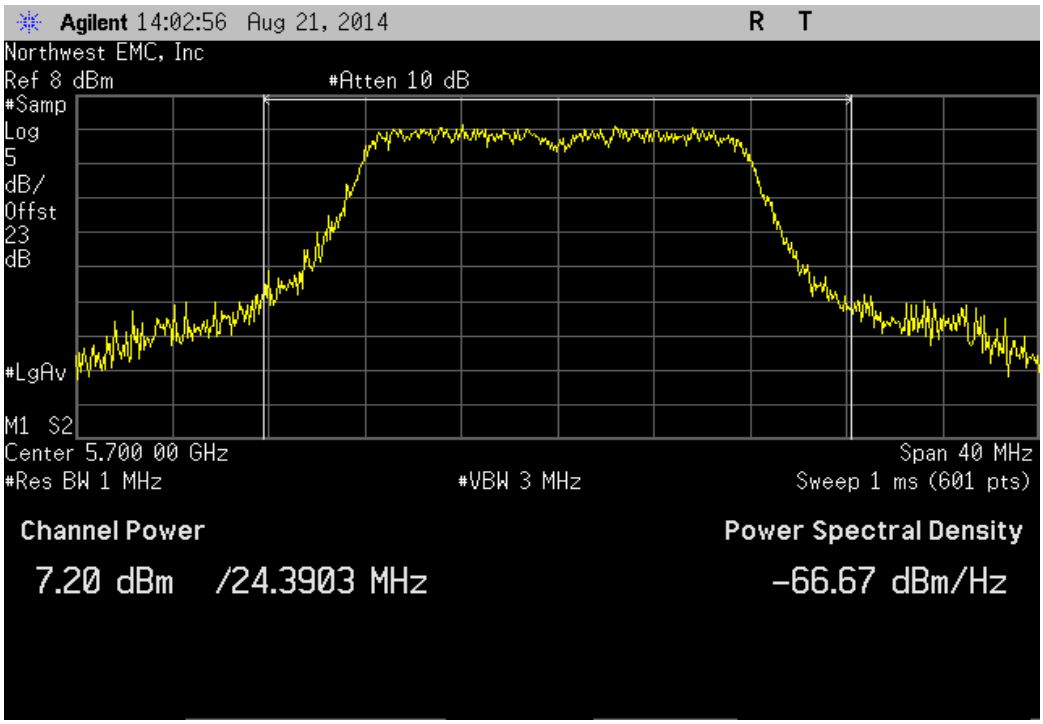
Port 2, 802.11(a) 6 Mbps, Ch 100, Low Channel 5500 MHz						
				Value	Limit (<)	Result
				3.401 dBm	24 dBm	Pass



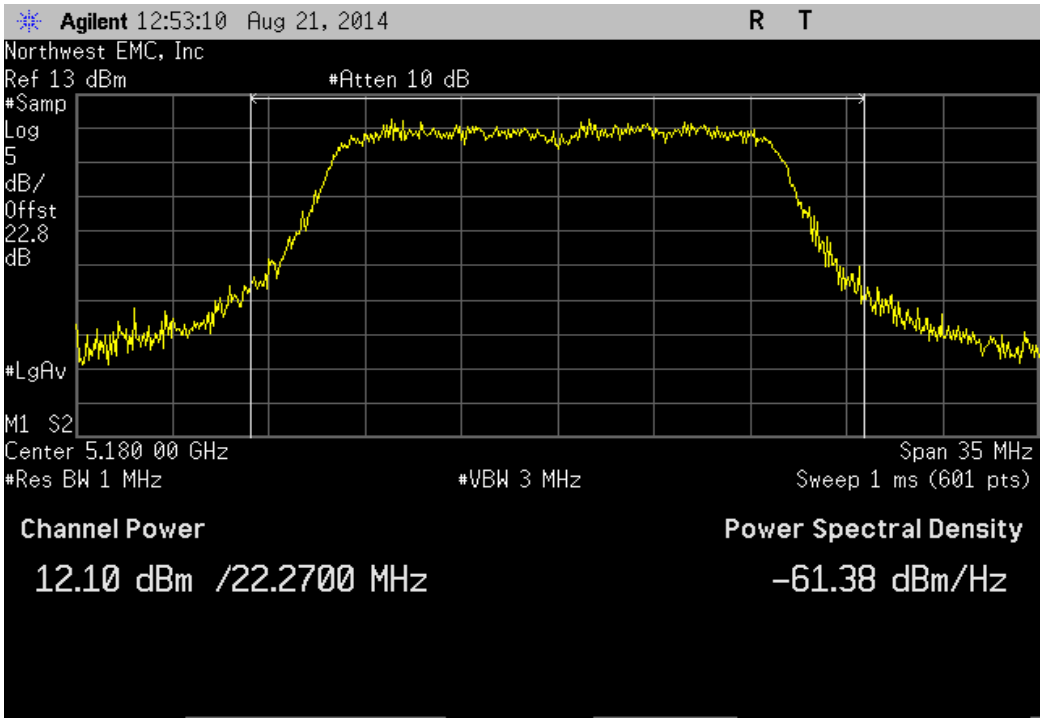
Port 2, 802.11(a) 6 Mbps, Ch 116, Mid Channel 5580 MHz						
				Value	Limit (<)	Result
				6.744 dBm	24 dBm	Pass



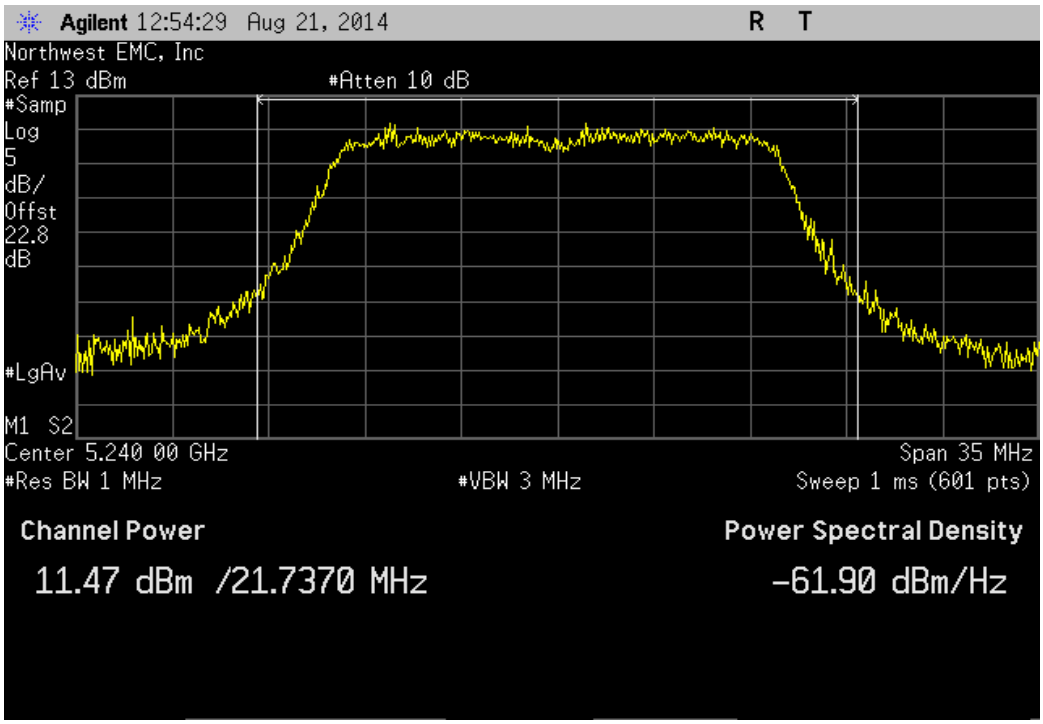
Port 2, 802.11(a) 6 Mbps, Ch 140, High Channel 5700 MHz						
				Value	Limit (<)	Result
				7.198 dBm	24 dBm	Pass



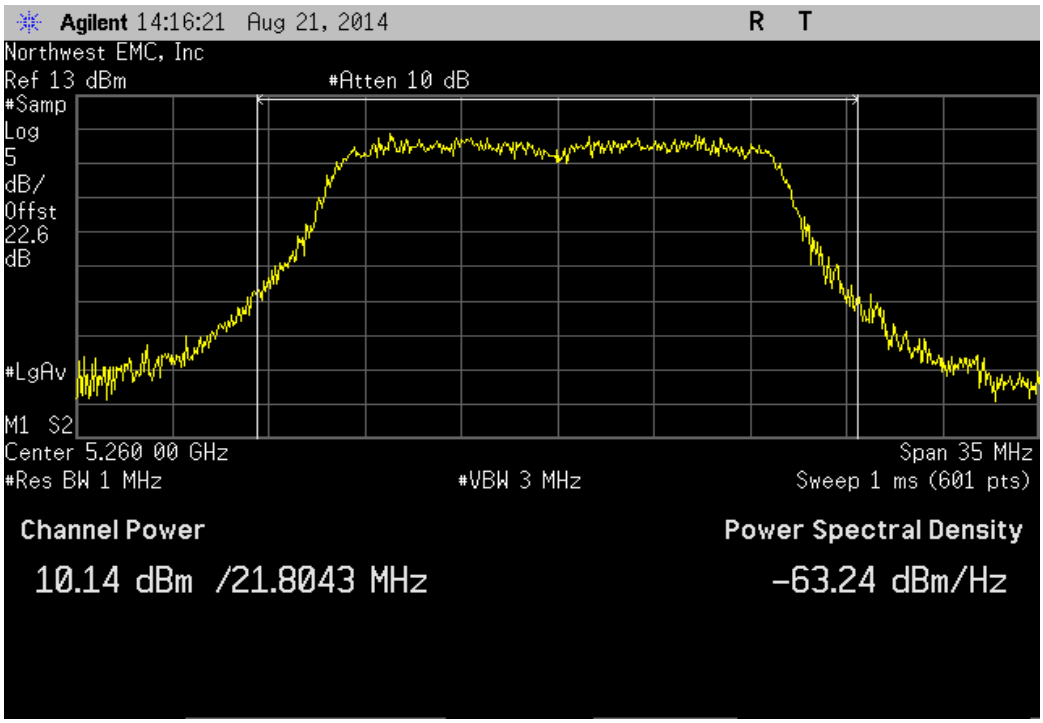
Port 2, 802.11(a) 36 Mbps, Ch 36, Low Channel 5180 MHz						
				Value	Limit (<)	Result
				12.098 dBm	17 dBm	Pass



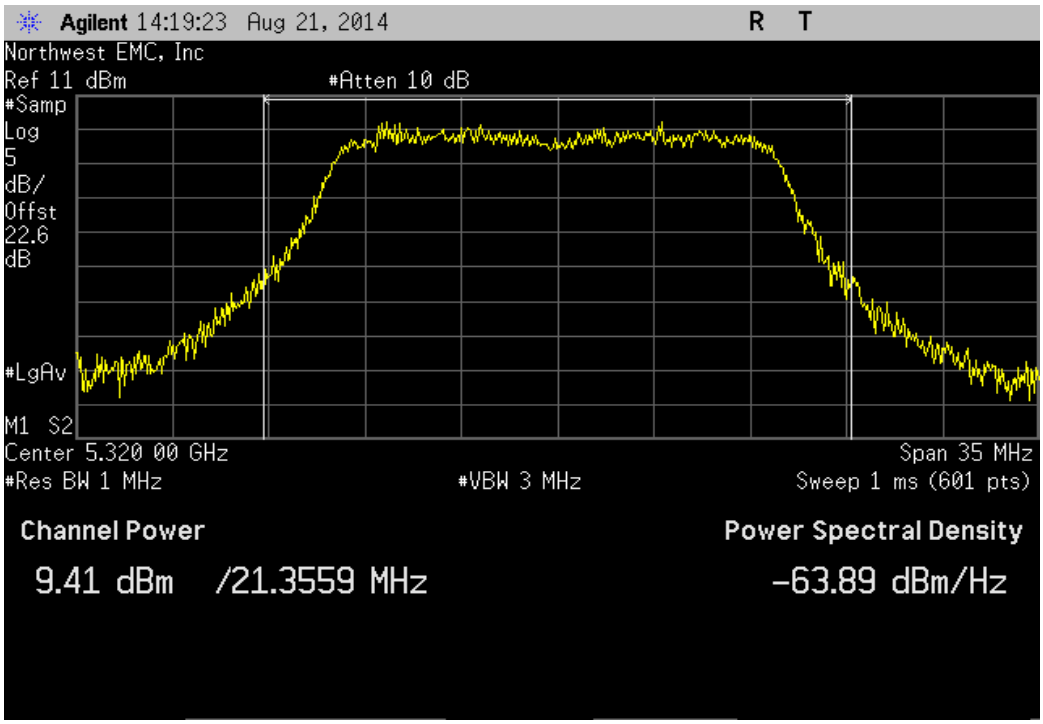
Port 2, 802.11(a) 36 Mbps, Ch 48, High Channel 5240 MHz						
				Value	Limit (<)	Result
				11.471 dBm	17 dBm	Pass



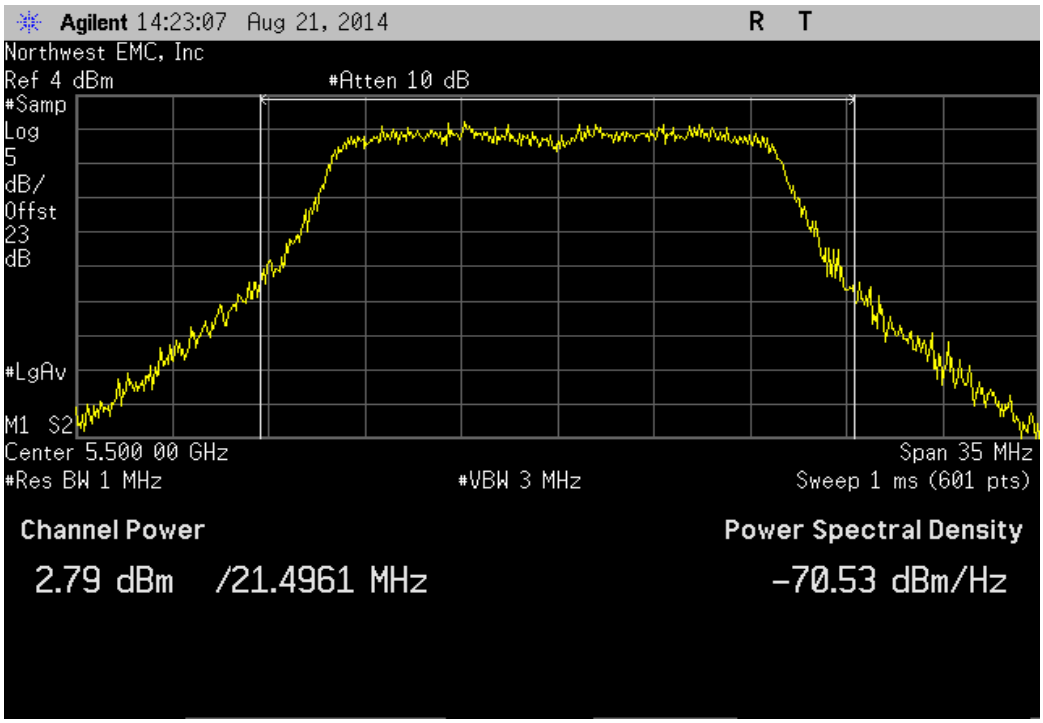
Port 2, 802.11(a) 36 Mbps, Ch 52, Low Channel 5260 MHz						
				Value	Limit (<)	Result
				10.141 dBm	24 dBm	Pass



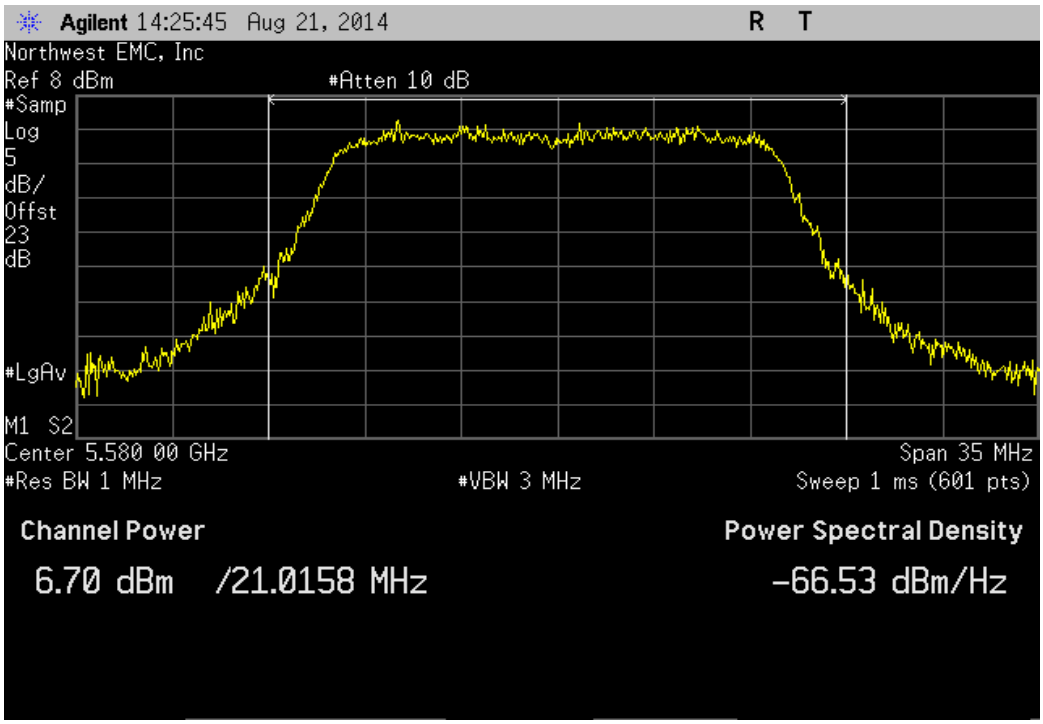
Port 2, 802.11(a) 36 Mbps, Ch 64, High Channel 5320 MHz						
				Value	Limit (<)	Result
				9.41 dBm	24 dBm	Pass



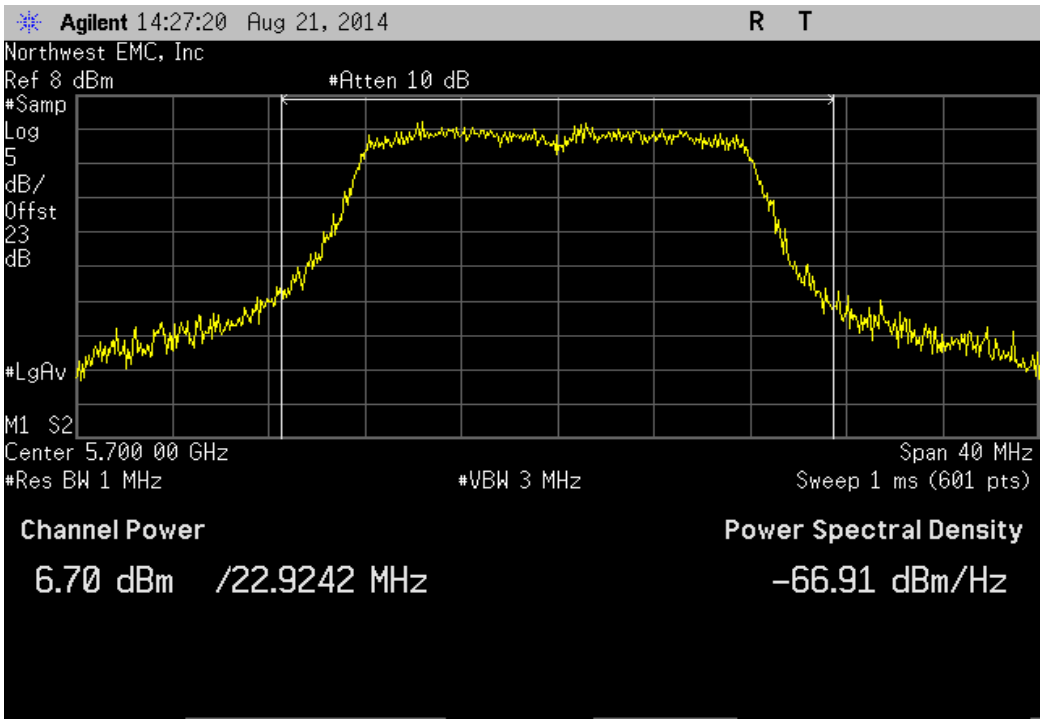
Port 2, 802.11(a) 36 Mbps, Ch 100, Low Channel 5500 MHz						
				Value	Limit (<)	Result
				2.789 dBm	24 dBm	Pass



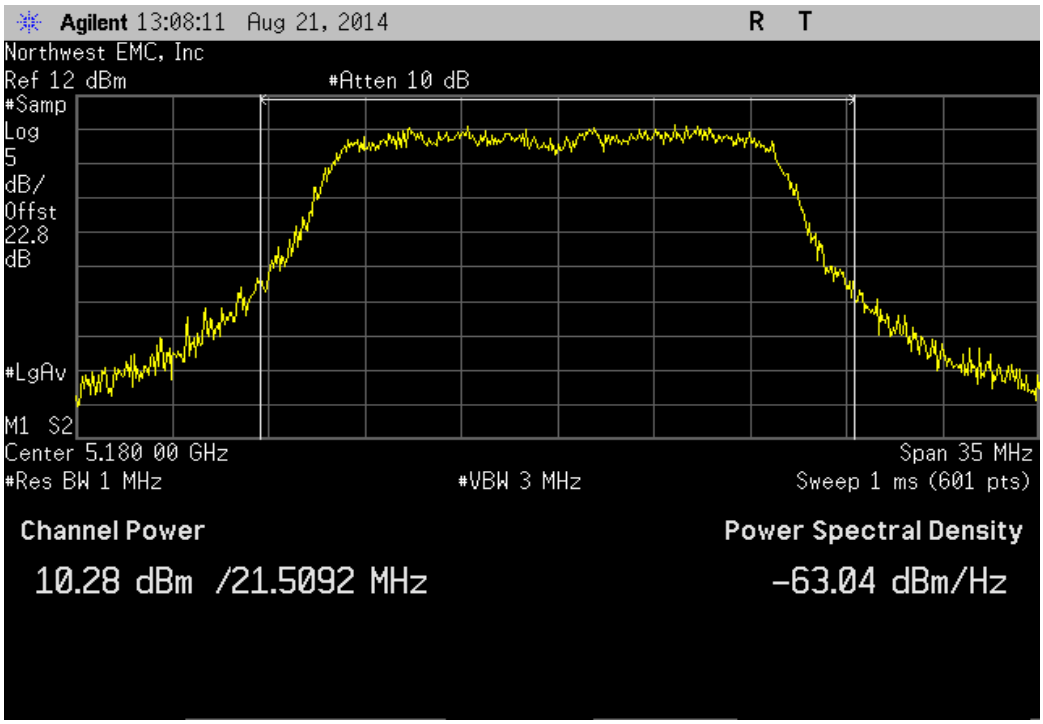
Port 2, 802.11(a) 36 Mbps, Ch 116, Mid Channel 5580 MHz						
				Value	Limit (<)	Result
				6.695 dBm	24 dBm	Pass



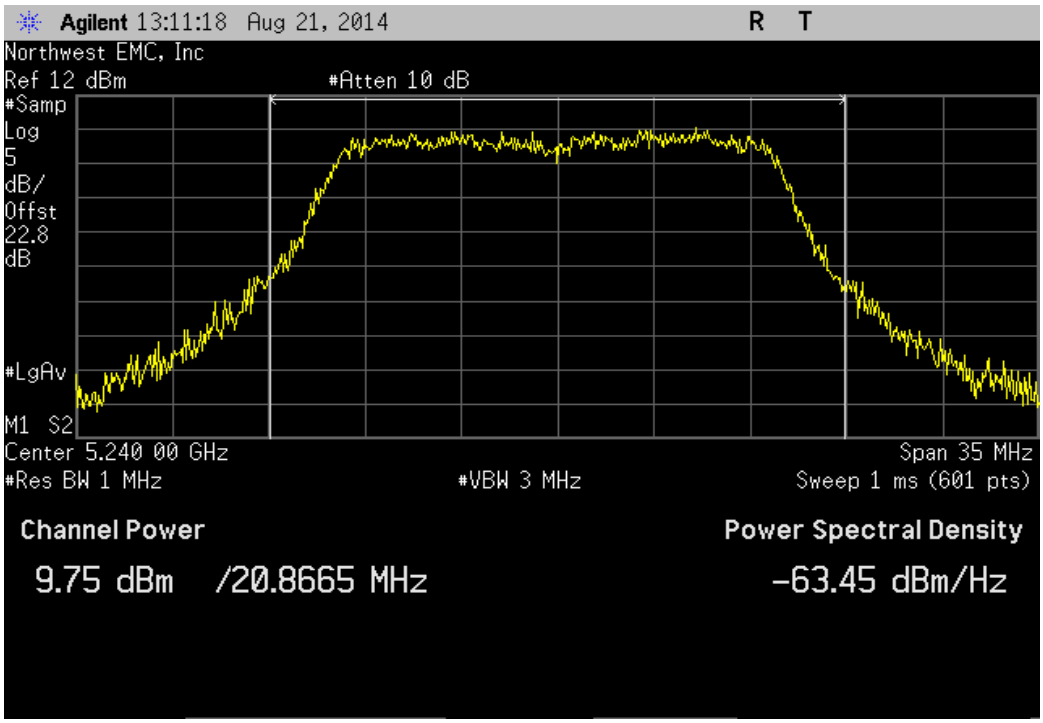
Port 2, 802.11(a) 36 Mbps, Ch 140, High Channel 5700 MHz							
					Value	Limit (<)	Result
					6.698 dBm	24 dBm	Pass



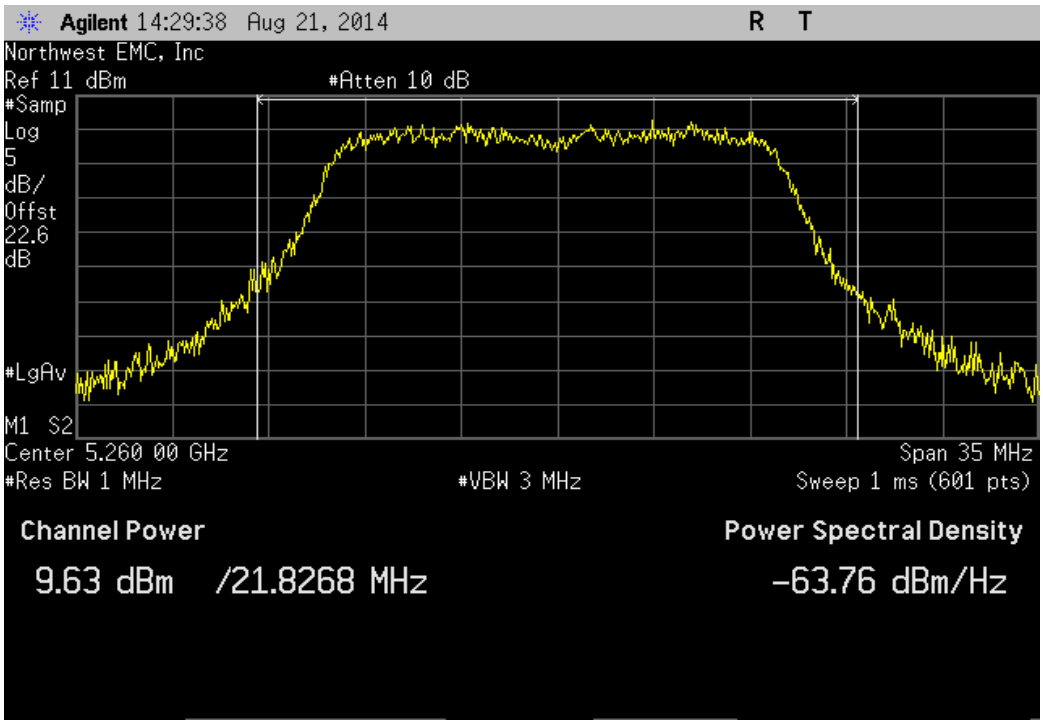
Port 2, 802.11(a) 54 Mbps, Ch 36, Low Channel 5180 MHz							
					Value	Limit (<)	Result
					10.285 dBm	17 dBm	Pass



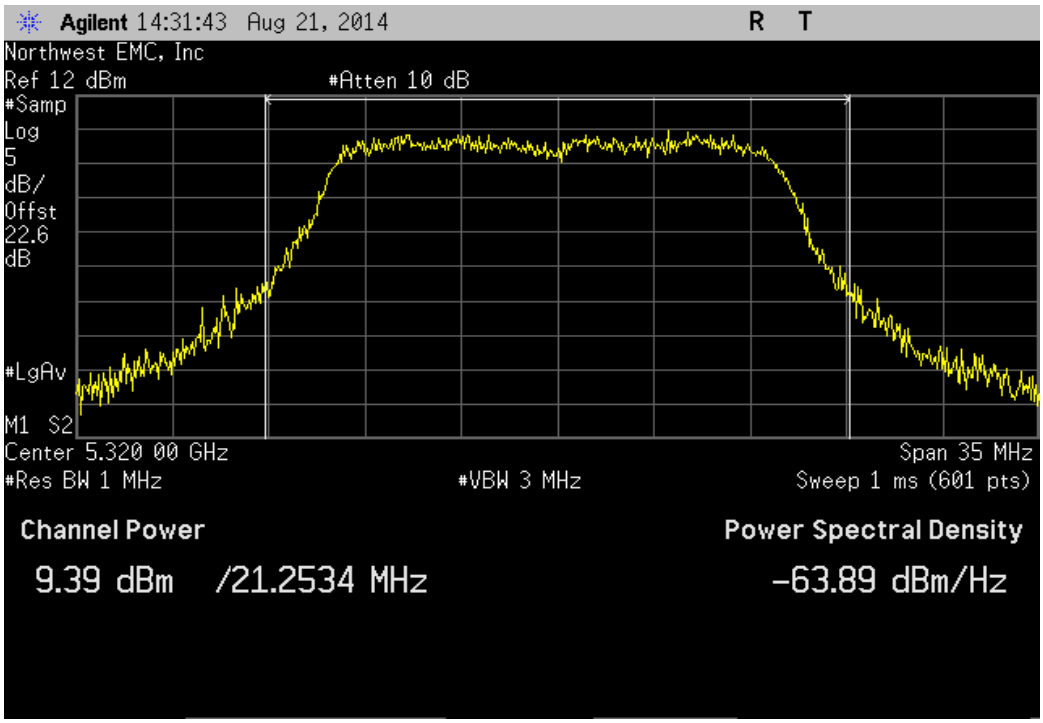
Port 2, 802.11(a) 54 Mbps, Ch 48, High Channel 5240 MHz						
				Value	Limit (<)	Result
				9.749 dBm	17 dBm	Pass



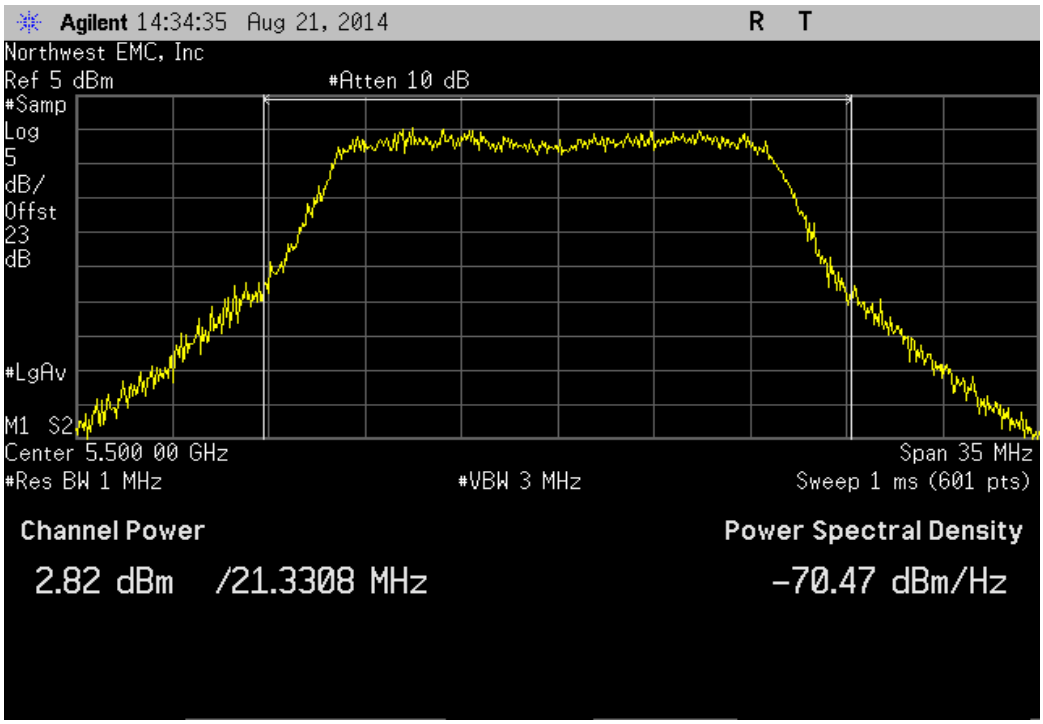
Port 2, 802.11(a) 54 Mbps, Ch 52, Low Channel 5260 MHz						
				Value	Limit (<)	Result
				9.635 dBm	24 dBm	Pass



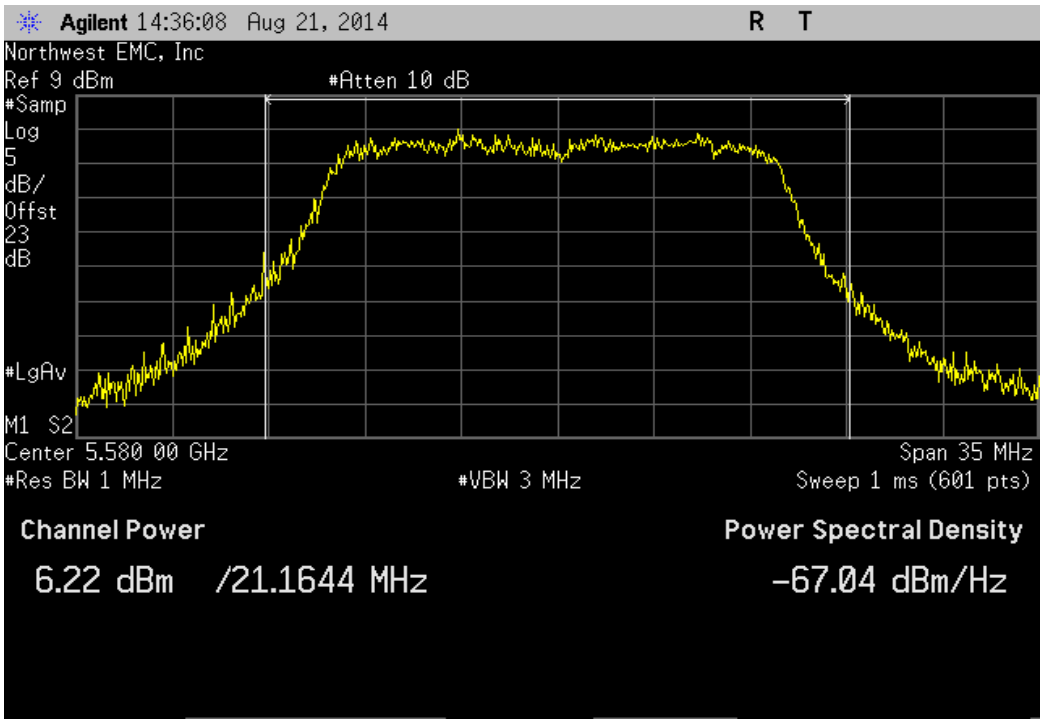
Port 2, 802.11(a) 54 Mbps, Ch 64, High Channel 5320 MHz						
				Value	Limit (<)	Result
				9.386 dBm	24 dBm	Pass



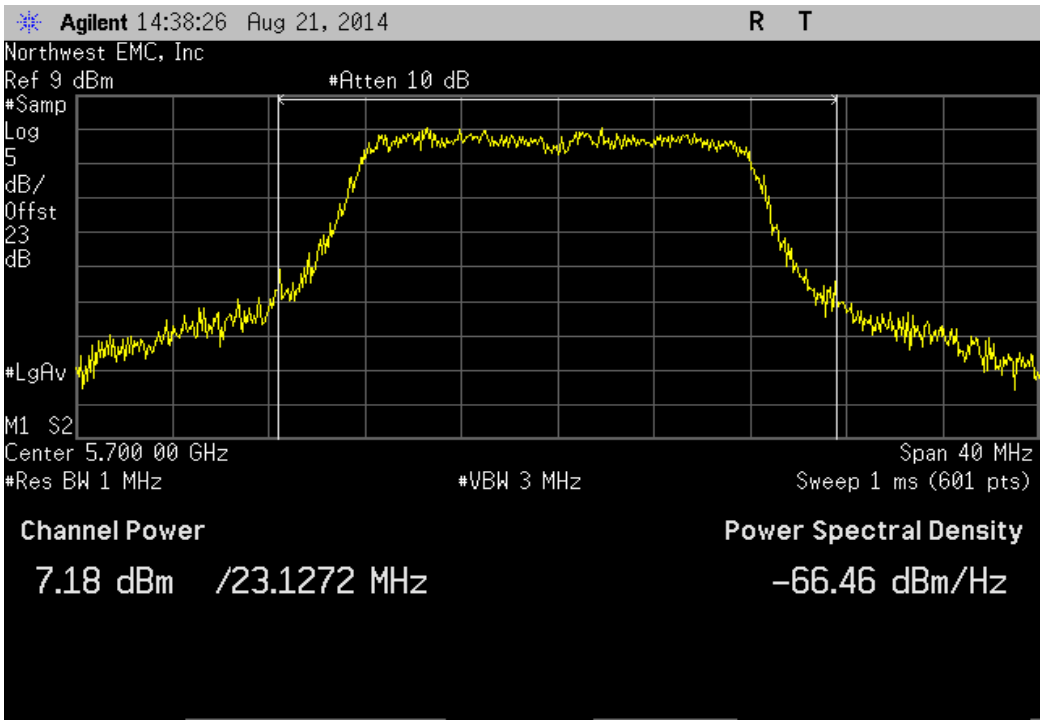
Port 2, 802.11(a) 54 Mbps, Ch 100, Low Channel 5500 MHz						
				Value	Limit (<)	Result
				2.817 dBm	24 dBm	Pass



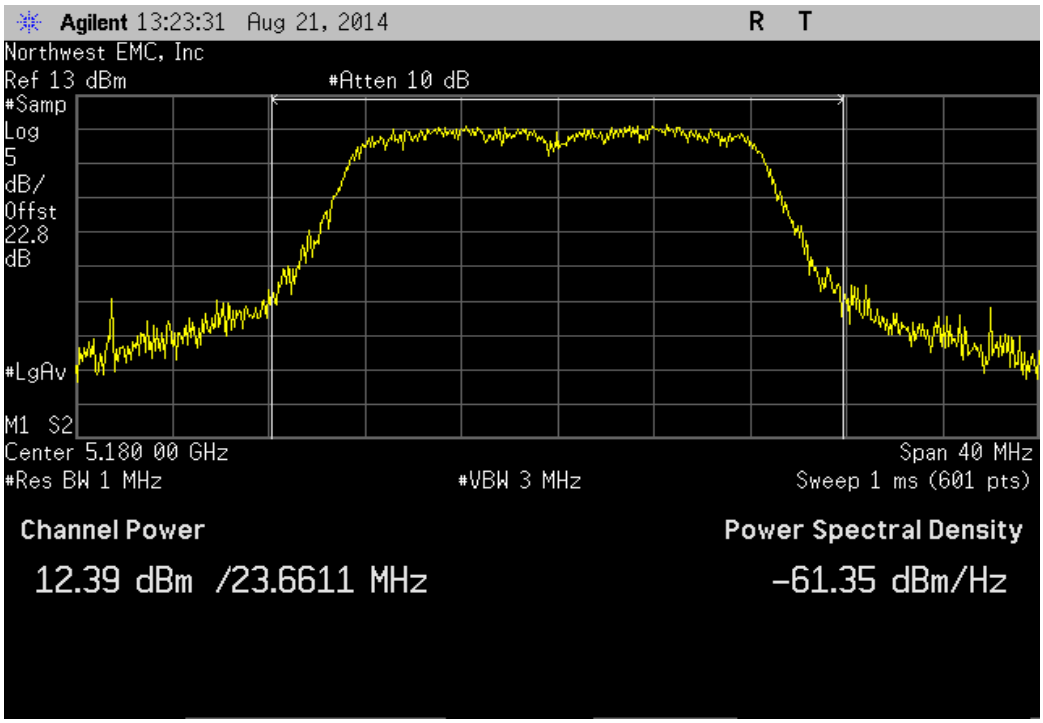
Port 2, 802.11(a) 54 Mbps, Ch 116, Mid Channel 5580 MHz						
				Value	Limit (<)	Result
				6.218 dBm	24 dBm	Pass



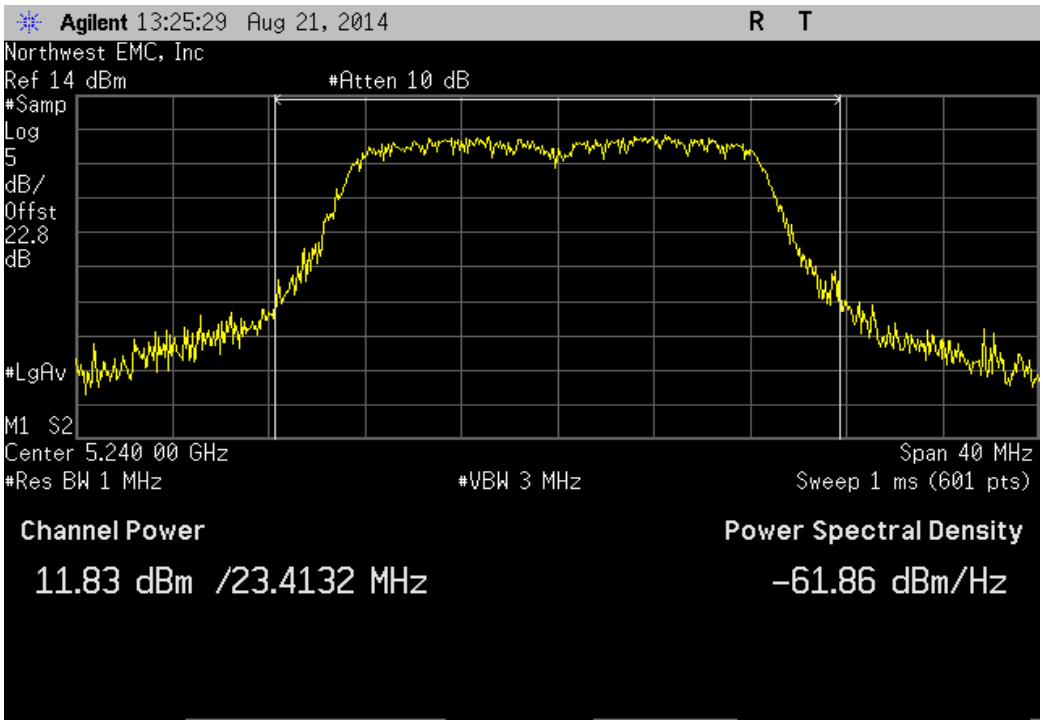
Port 2, 802.11(a) 54 Mbps, Ch 140, High Channel 5700 MHz						
				Value	Limit (<)	Result
				7.176 dBm	24 dBm	Pass



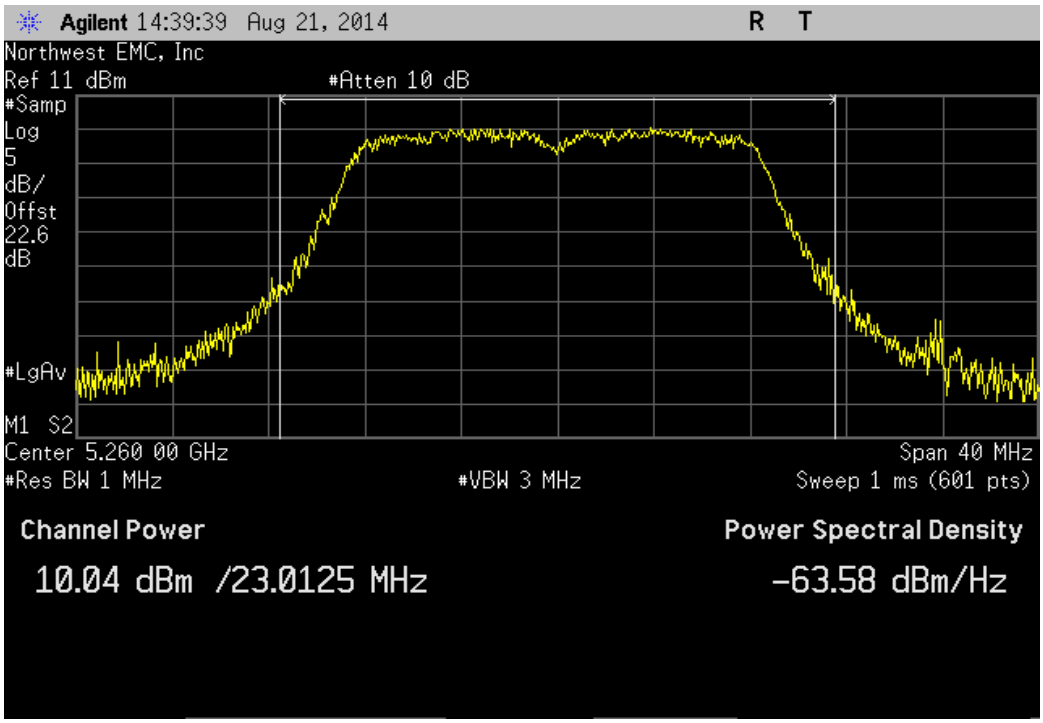
Port 2, 802.11(n) MCS0, Ch 36, Low Channel 5180 MHz						
				Value	Limit (<)	Result
				12.393 dBm	17 dBm	Pass



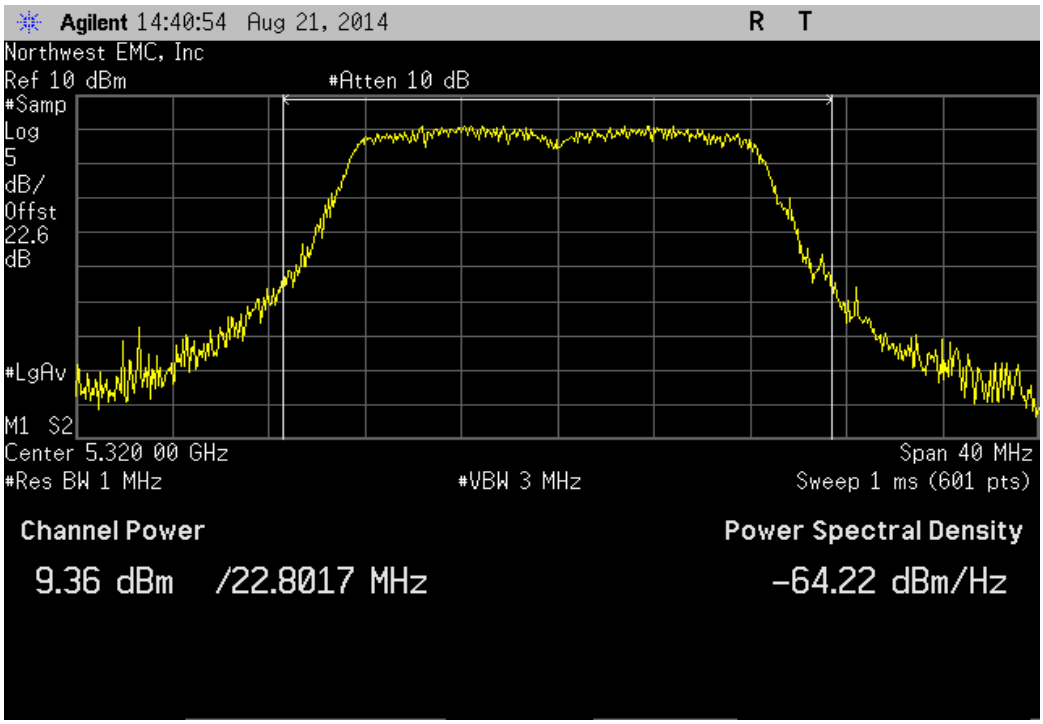
Port 2, 802.11(n) MCS0, Ch 48, High Channel 5240 MHz						
				Value	Limit (<)	Result
				11.83 dBm	17 dBm	Pass



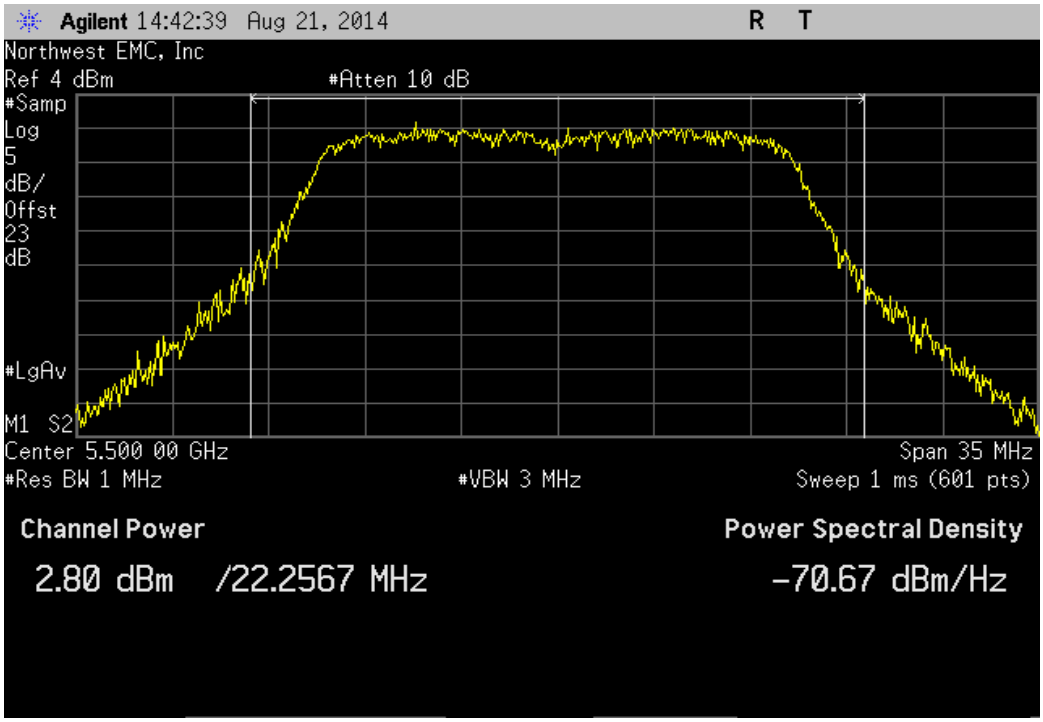
Port 2, 802.11(n) MCS0, Ch 52, Low Channel 5260 MHz						
				Value	Limit (<)	Result
				10.044 dBm	24 dBm	Pass



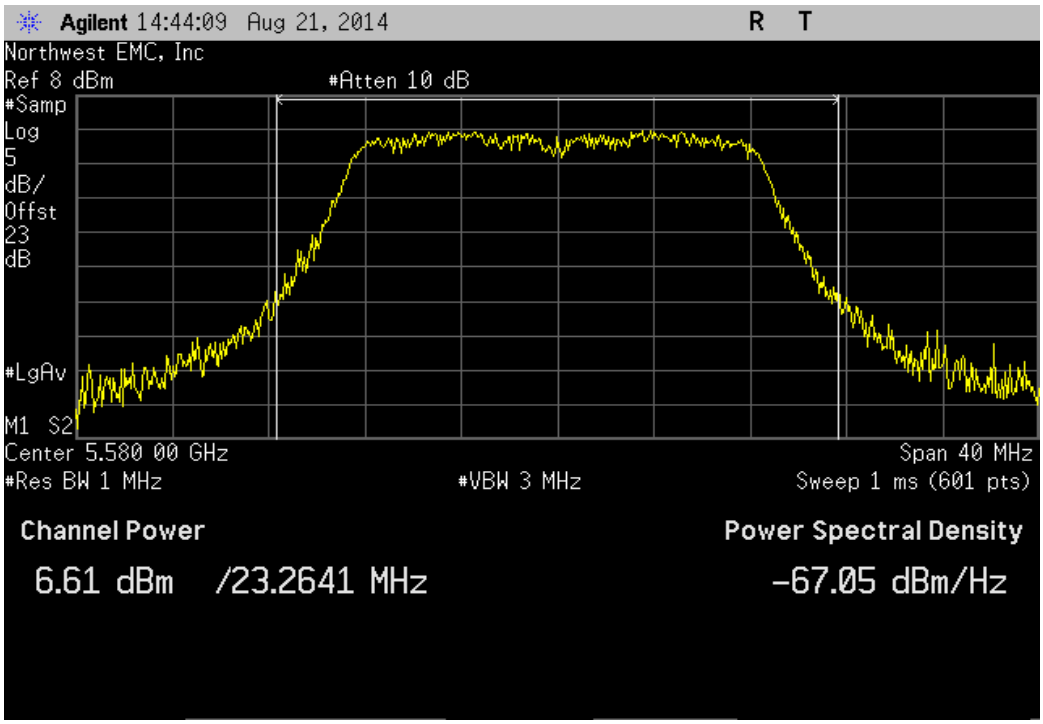
Port 2, 802.11(n) MCS0, Ch 64, High Channel 5320 MHz						
				Value	Limit (<)	Result
				9.359 dBm	24 dBm	Pass



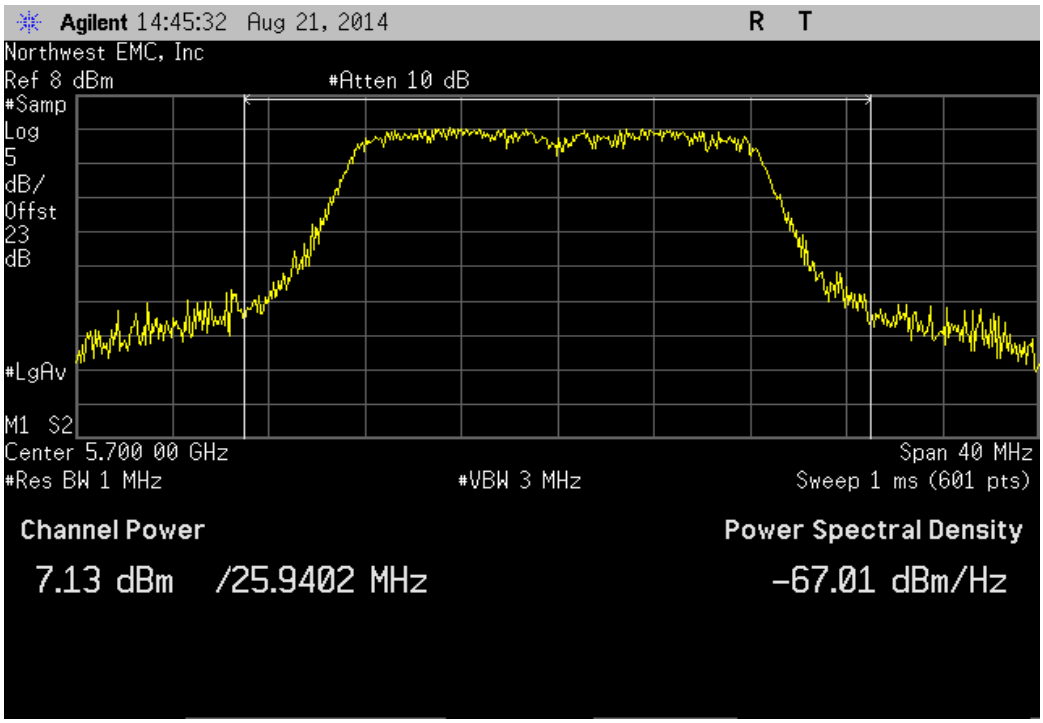
Port 2, 802.11(n) MCS0, Ch 100, Low Channel 5500 MHz						
				Value	Limit (<)	Result
				2.803 dBm	24 dBm	Pass



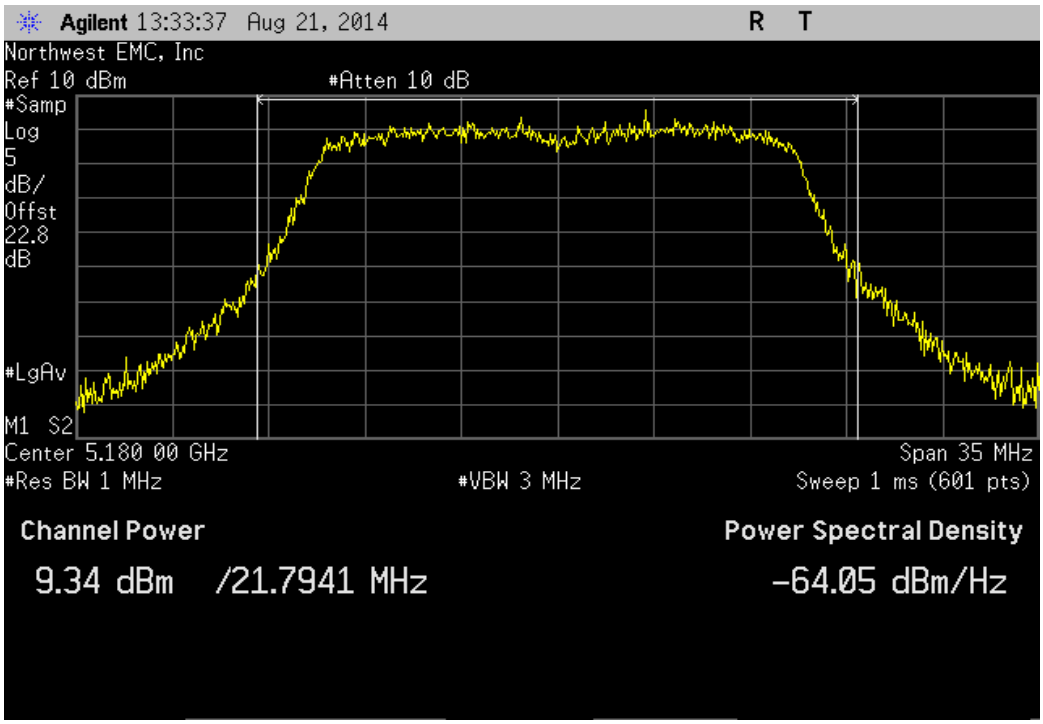
Port 2, 802.11(n) MCS0, Ch 116, Mid Channel 5580 MHz						
				Value	Limit (<)	Result
				6.612 dBm	24 dBm	Pass



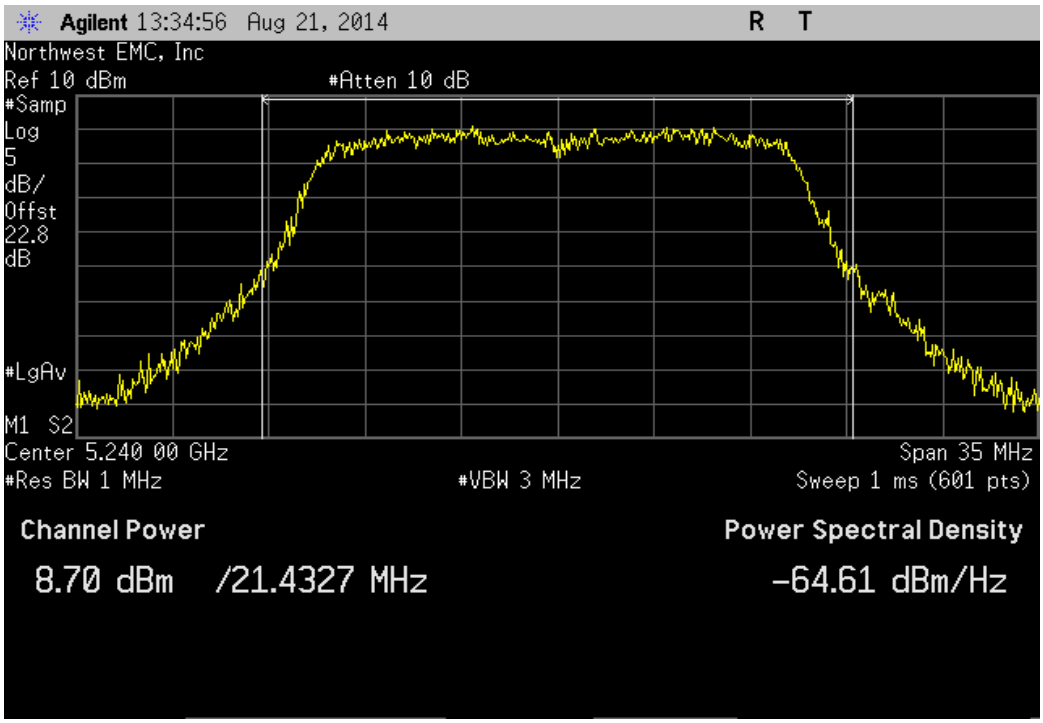
Port 2, 802.11(n) MCS0, Ch 140, High Channel 5700 MHz						
				Value	Limit (<)	Result
				7.13 dBm	24 dBm	Pass



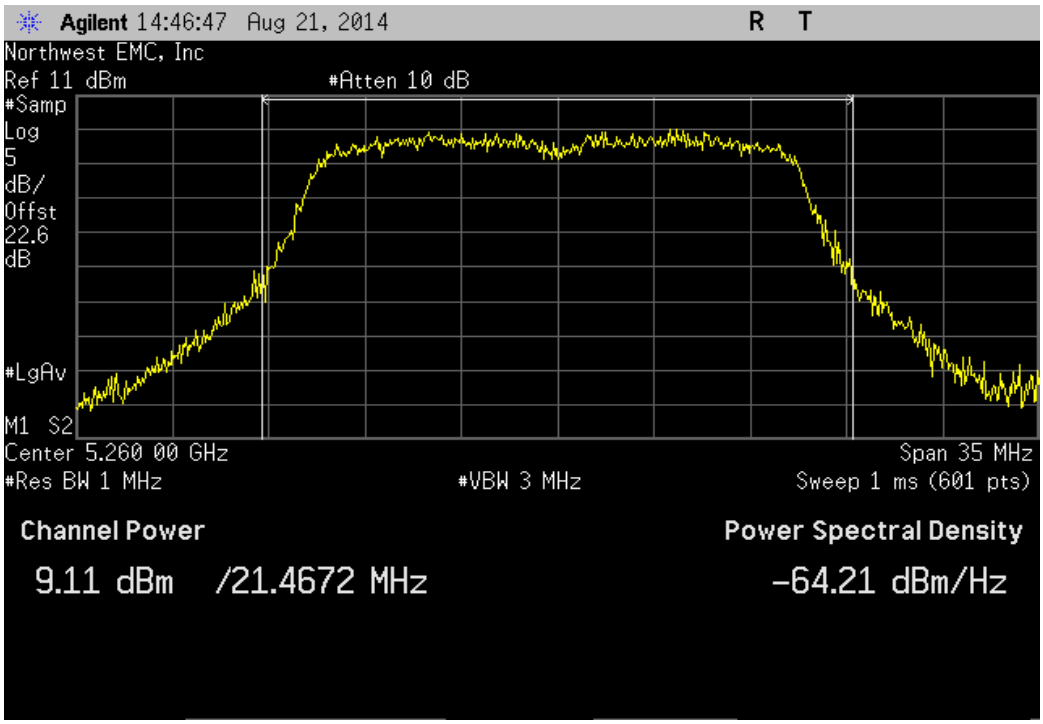
Port 2, 802.11(n) MCS7, Ch 36, Low Channel 5180 MHz						
				Value	Limit (<)	Result
				9.336 dBm	17 dBm	Pass



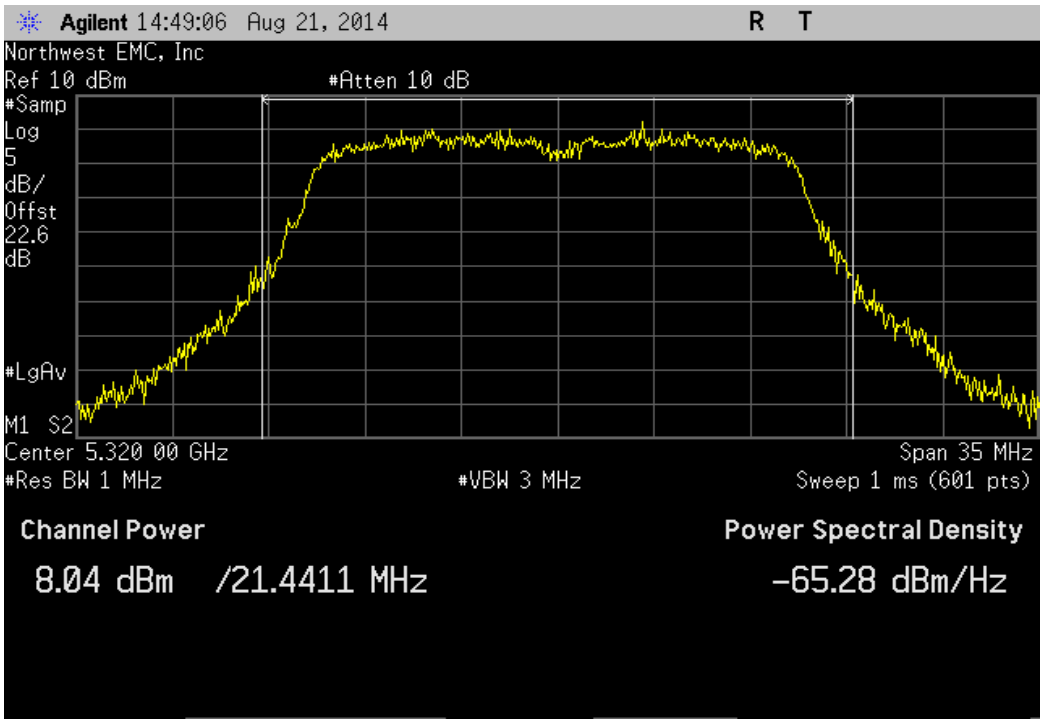
Port 2, 802.11(n) MCS7, Ch 48, High Channel 5240 MHz						
				Value	Limit (<)	Result
				8.703 dBm	17 dBm	Pass



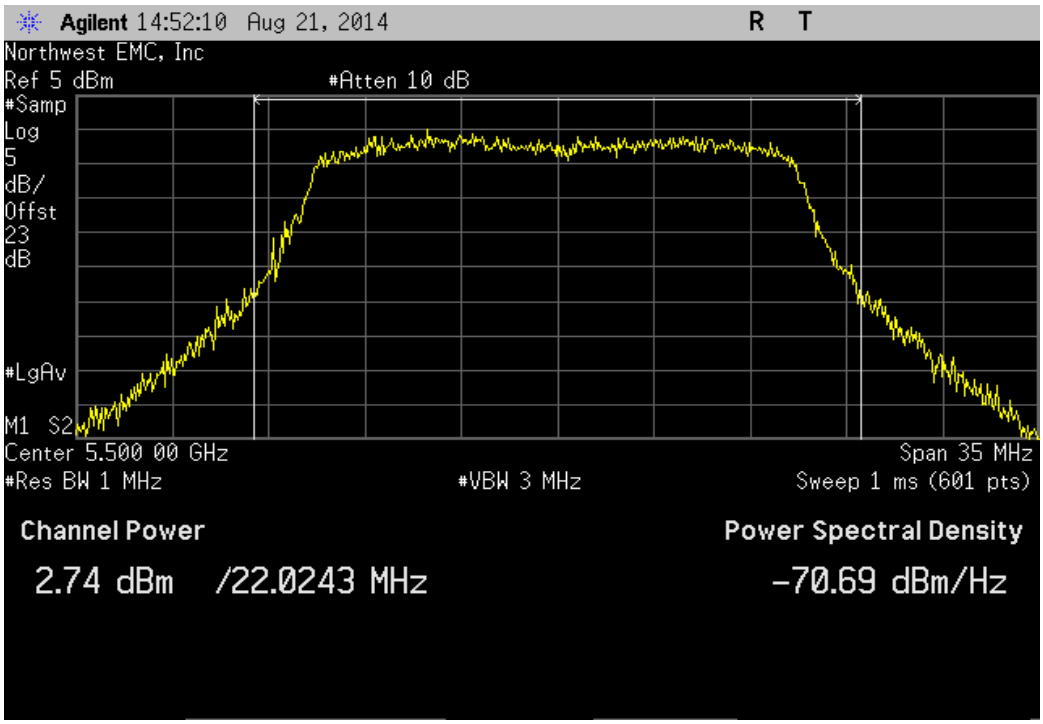
Port 2, 802.11(n) MCS7, Ch 52, Low Channel 5260 MHz						
				Value	Limit (<)	Result
				9.108 dBm	24 dBm	Pass



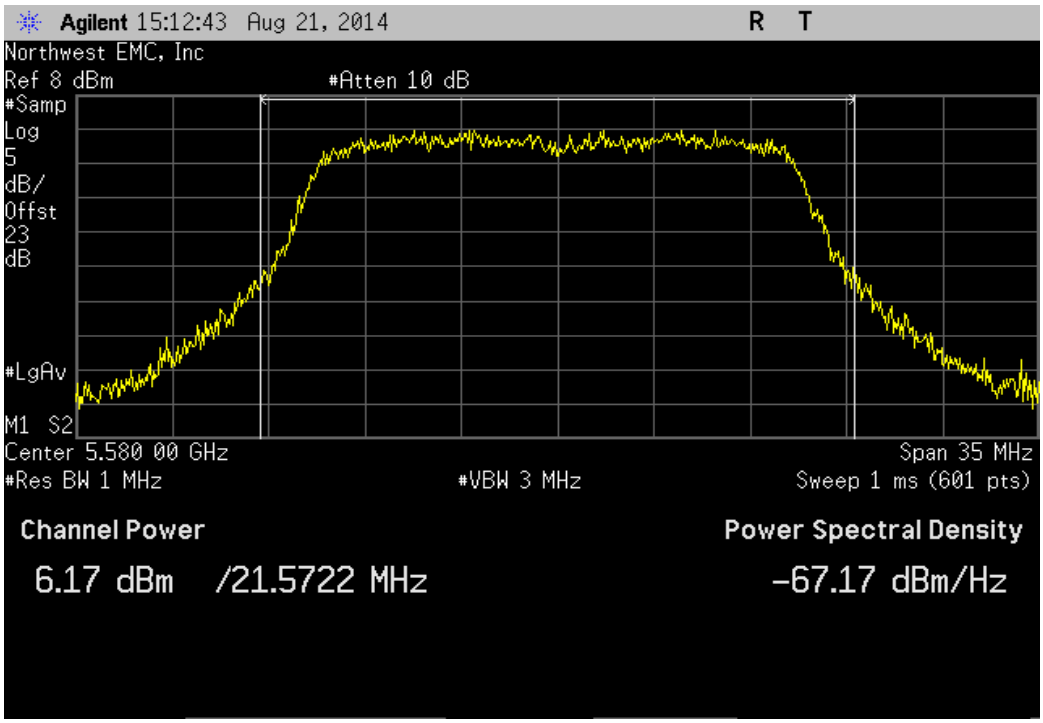
Port 2, 802.11(n) MCS7, Ch 64, High Channel 5320 MHz						
				Value	Limit (<)	Result
				8.036 dBm	24 dBm	Pass



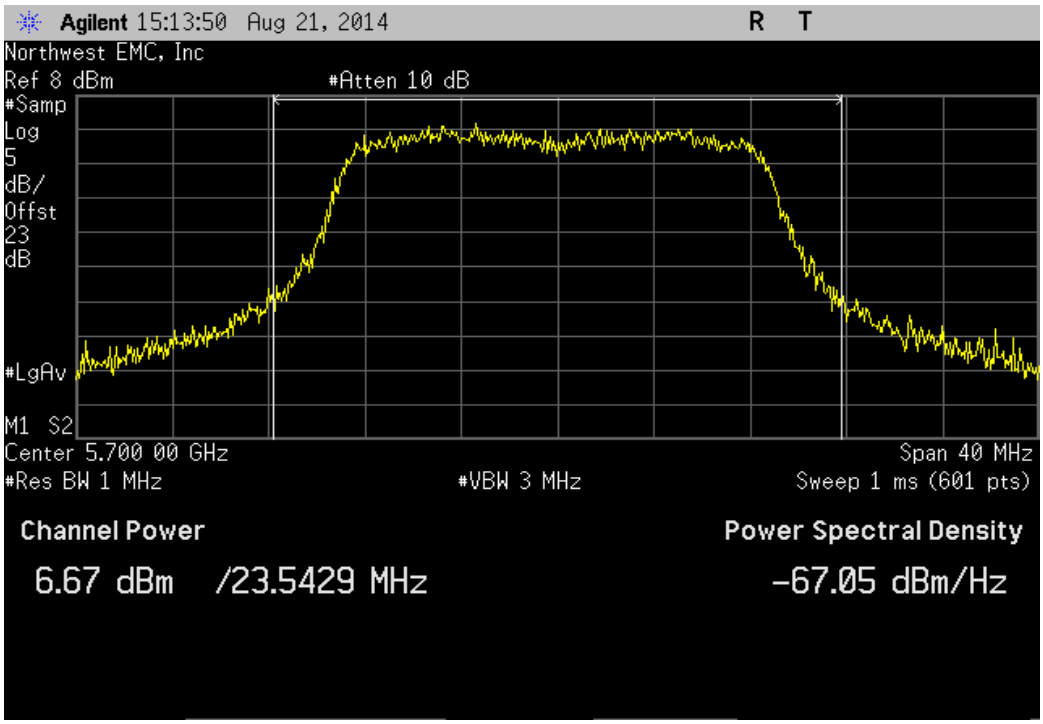
Port 2, 802.11(n) MCS7, Ch 100, Low Channel 5500 MHz						
				Value	Limit (<)	Result
				2.737 dBm	24 dBm	Pass



Port 2, 802.11(n) MCS7, Ch 116, Mid Channel 5580 MHz						
				Value	Limit (<)	Result
				6.172 dBm	24 dBm	Pass



Port 2, 802.11(n) MCS7, Ch 140, High Channel 5700 MHz						
				Value	Limit (<)	Result
				6.673 dBm	24 dBm	Pass



PEAK EXCURSION OF THE MODULATION ENVELOPE

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 (mo)
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	9/26/2013	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

FCC KDB 789033 D01 General UNII Test Procedures Section F 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

PEAK EXCURSION OF THE MODULATION ENVELOPE

EUT:	ConnectCore6 (i.MX6)	**Work Order:**	ETHE0008
Serial Number:	00409D7B8CA2	**Date:**	08/05/14
Customer:	Etherios Design Solutions	**Temperature:**	24.1°C
Attendees:	None	**Humidity:**	52%
Project:	None	**Barometric Pres.:**	1022.3
Tested by:	Trevor Buls	**Power:** 5.0VDC	**Job Site:** MN08

TEST SPECIFICATIONS	Test Method
FCC 15.407:2014	ANSI C63.10:2009

COMMENTS

None

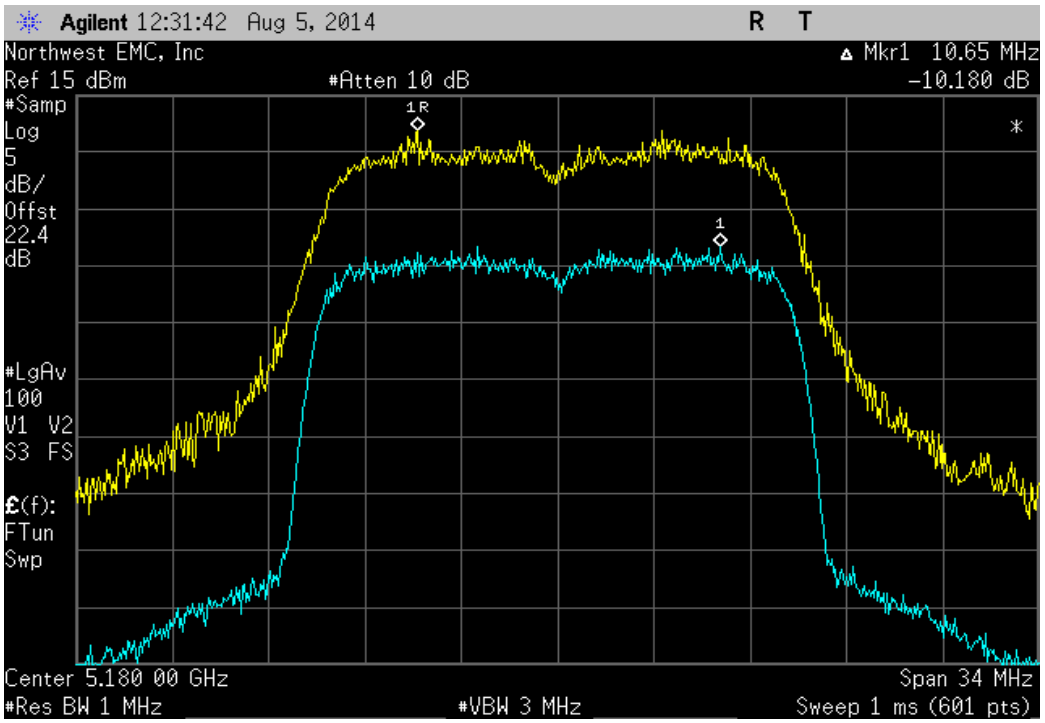
DEVIATIONS FROM TEST STANDARD

Configuration #	1	Signature	Trevor Buls

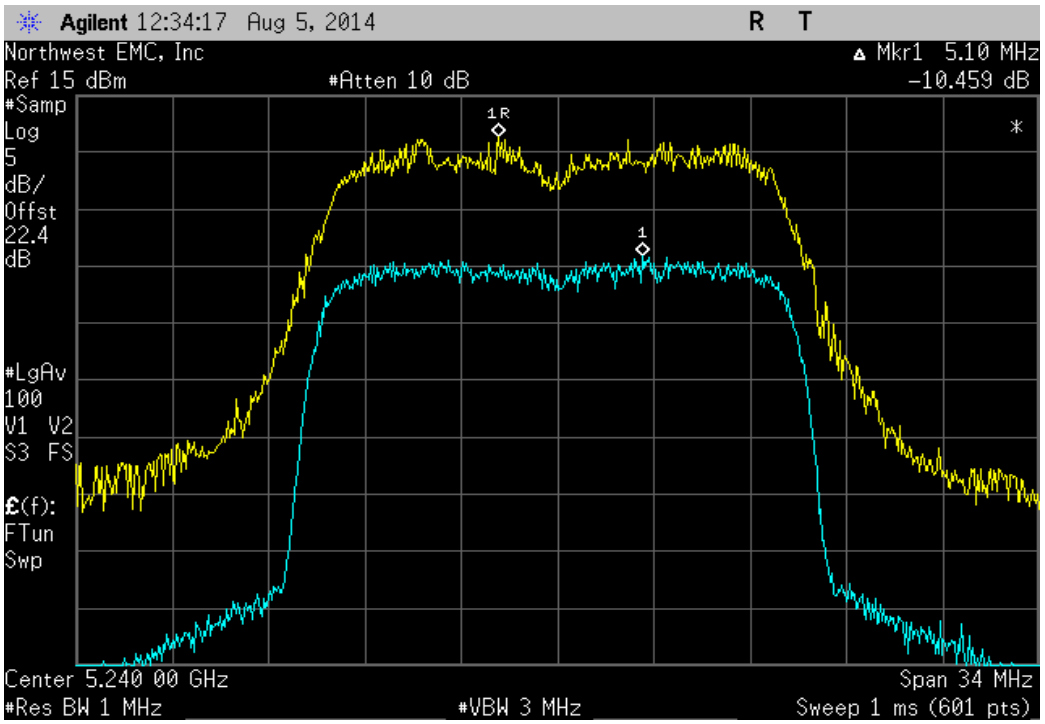
		Value (dB)	Limit ≤ (dB)	Results
802.11(a) 6 Mbps				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	10.18	13	Pass
	Channel 48, High Channel	10.459	13	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	9.927	13	Pass
	Channel 64, High Channel	10.136	13	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	10.232	13	Pass
	Channel 116, Mid Channel	9.991	13	Pass
	Channel 140, High Channel	10.192	13	Pass
802.11(a) 36 Mbps				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	9.363	13	Pass
	Channel 48, High Channel	9.099	13	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	9.94	13	Pass
	Channel 64, High Channel	9.032	13	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	9.111	13	Pass
	Channel 116, Mid Channel	9.456	13	Pass
	Channel 140, High Channel	9.162	13	Pass
802.11(a) 54 Mbps				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	8.864	13	Pass
	Channel 48, High Channel	8.988	13	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	9.361	13	Pass
	Channel 64, High Channel	8.928	13	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	8.745	13	Pass
	Channel 116, Mid Channel	8.635	13	Pass
	Channel 140, High Channel	9.452	13	Pass
802.11(n) MCS0				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	10.625	13	Pass
	Channel 48, High Channel	10.282	13	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	9.731	13	Pass
	Channel 64, High Channel	9.513	13	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	10.005	13	Pass
	Channel 116, Mid Channel	9.705	13	Pass
	Channel 140, High Channel	9.583	13	Pass
802.11(n) MCS7				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	8.855	13	Pass
	Channel 48, High Channel	9.519	13	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	8.883	13	Pass
	Channel 64, High Channel	9.423	13	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	9.214	13	Pass
	Channel 116, Mid Channel	9.127	13	Pass
	Channel 140, High Channel	9.155	13	Pass

PEAK EXCURSION OF THE MODULATION ENVELOPE

802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
				Value (dB)	Limit ≤ (dB)	Results
				10.18	13	Pass



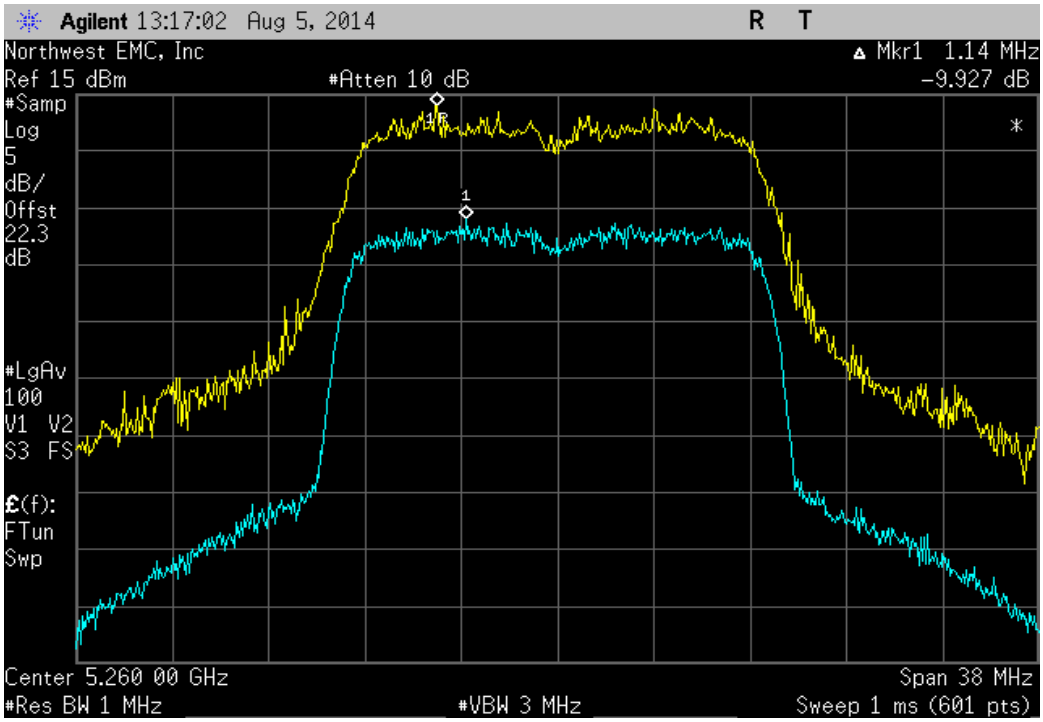
802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
				Value (dB)	Limit ≤ (dB)	Results
				10.459	13	Pass



PEAK EXCURSION OF THE MODULATION ENVELOPE

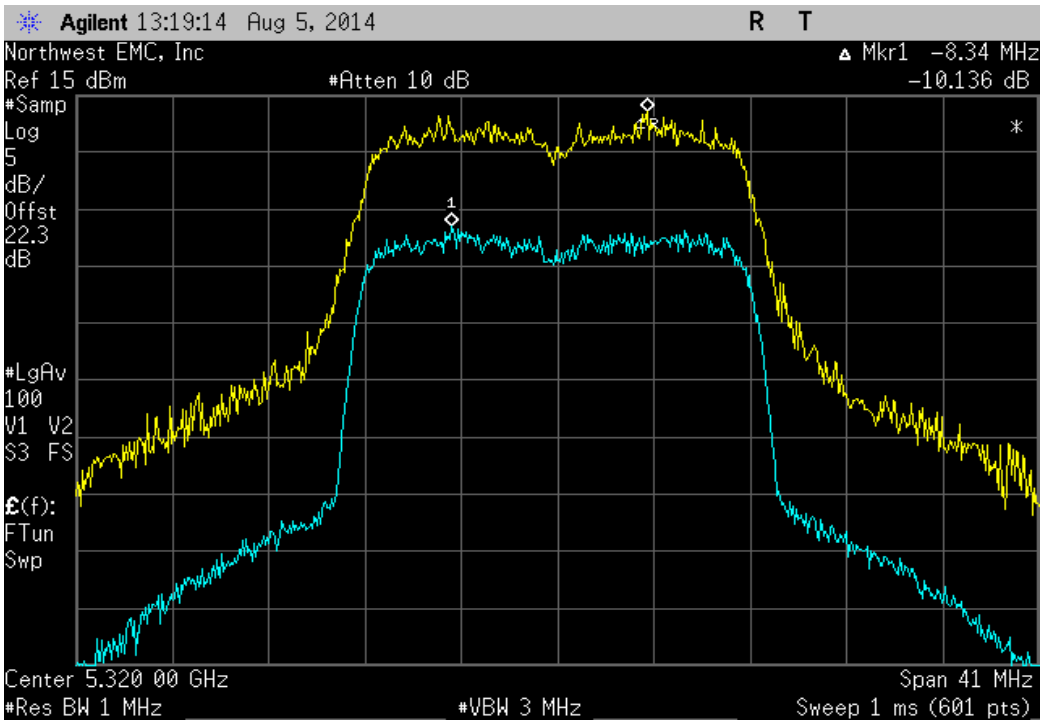
802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

Value (dB)	Limit ≤ (dB)	Results
9.927	13	Pass

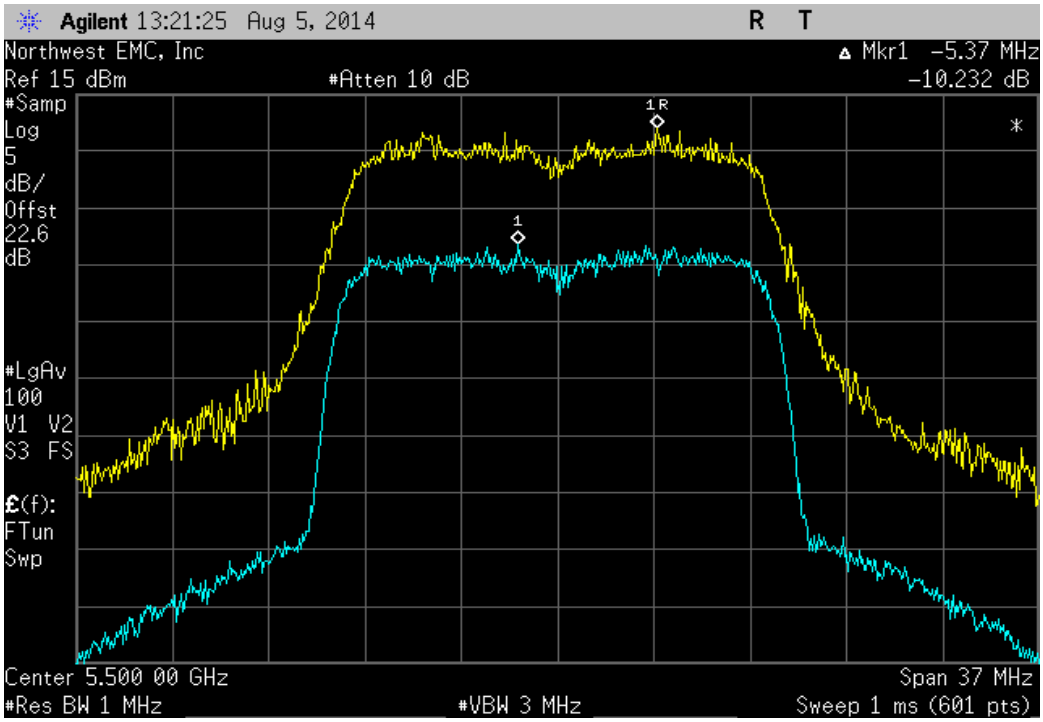


802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

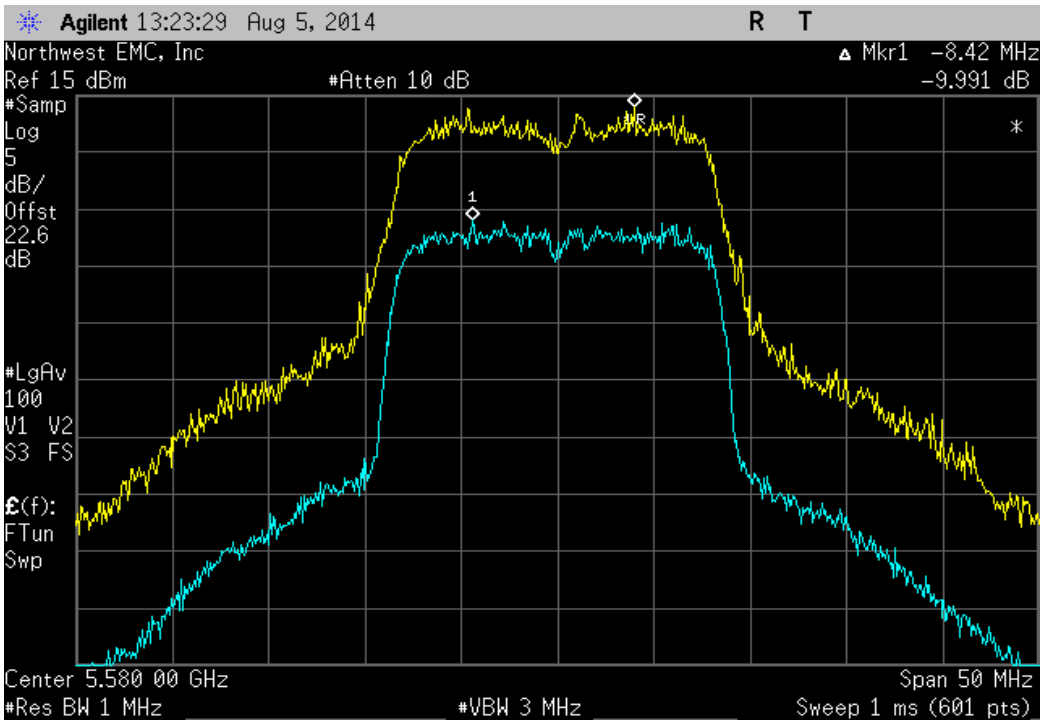
Value (dB)	Limit ≤ (dB)	Results
10.136	13	Pass



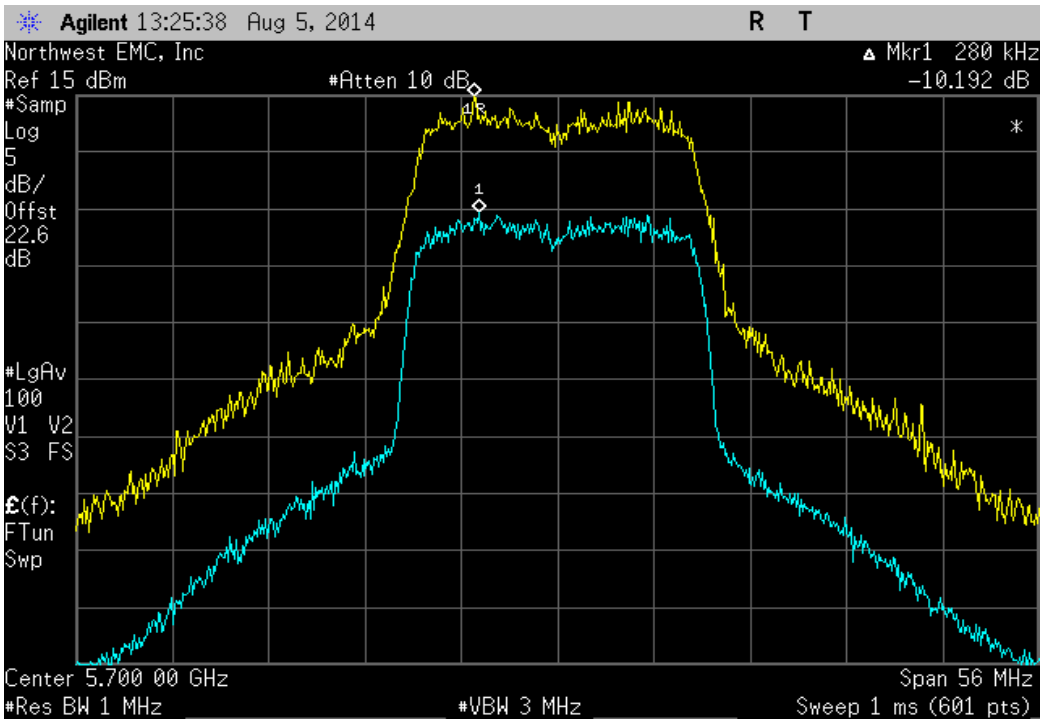
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
				Value (dB)	Limit ≤ (dB)	Results
				10.232	13	Pass



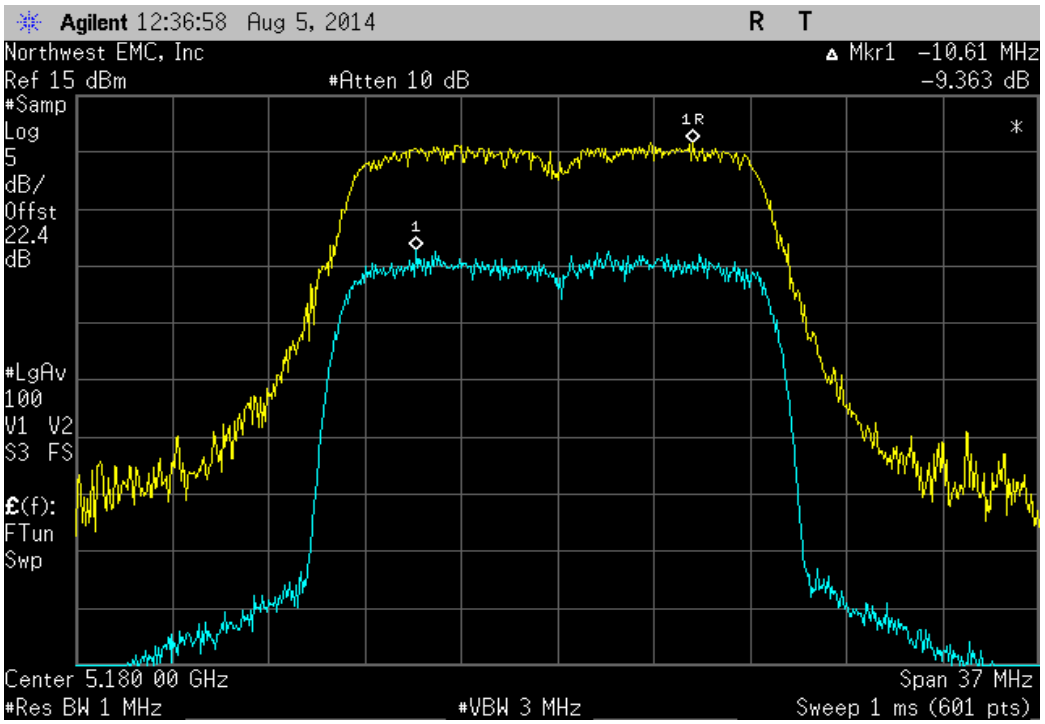
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.991	13	Pass



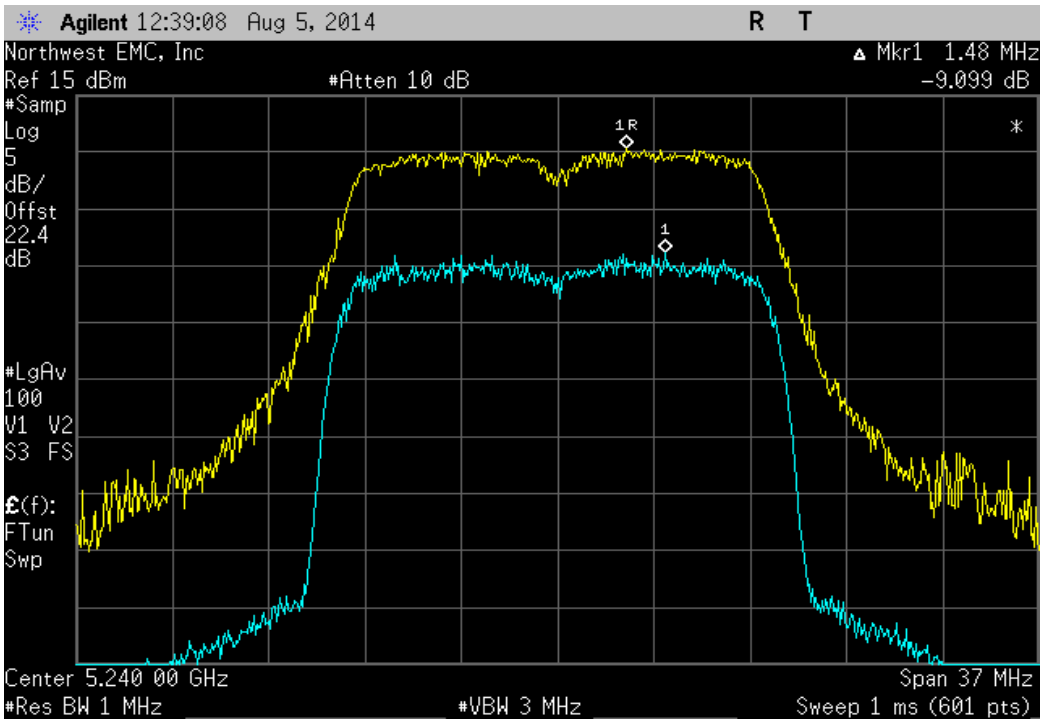
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel						
				Value (dB)	Limit ≤ (dB)	Results
				10.192	13	Pass



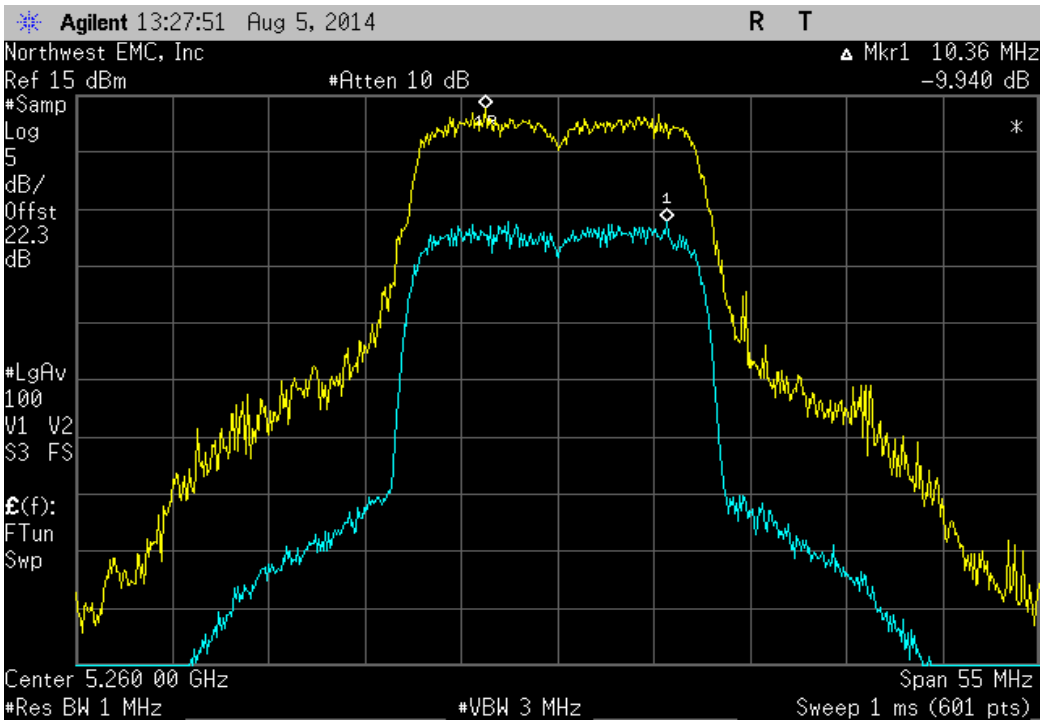
802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.363	13	Pass



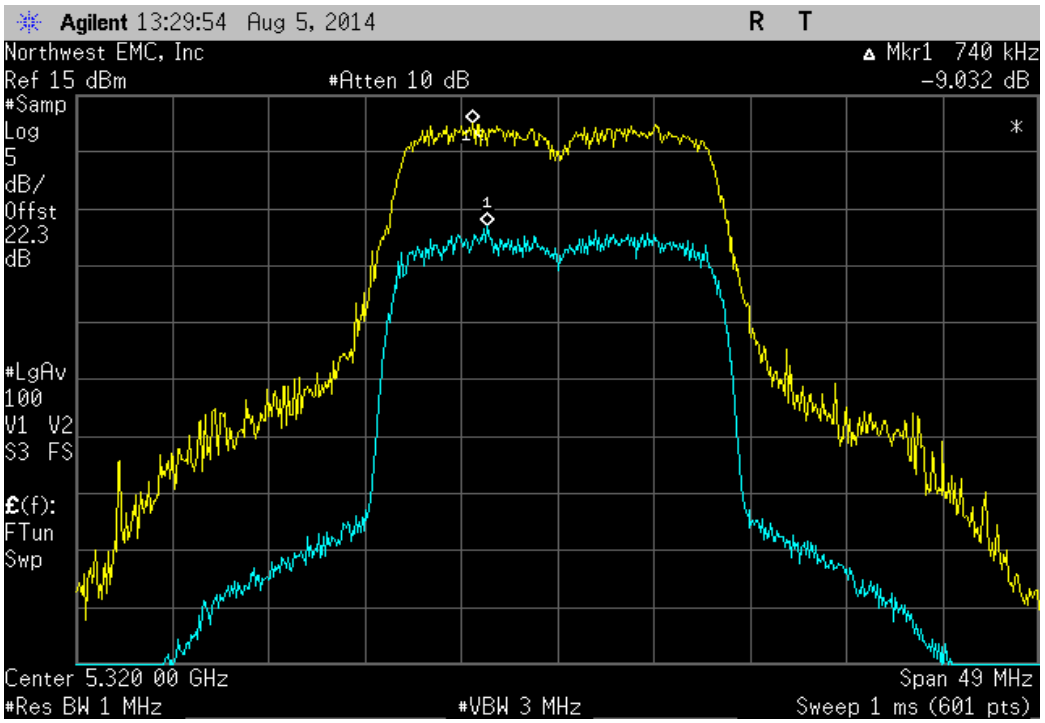
802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.099	13	Pass



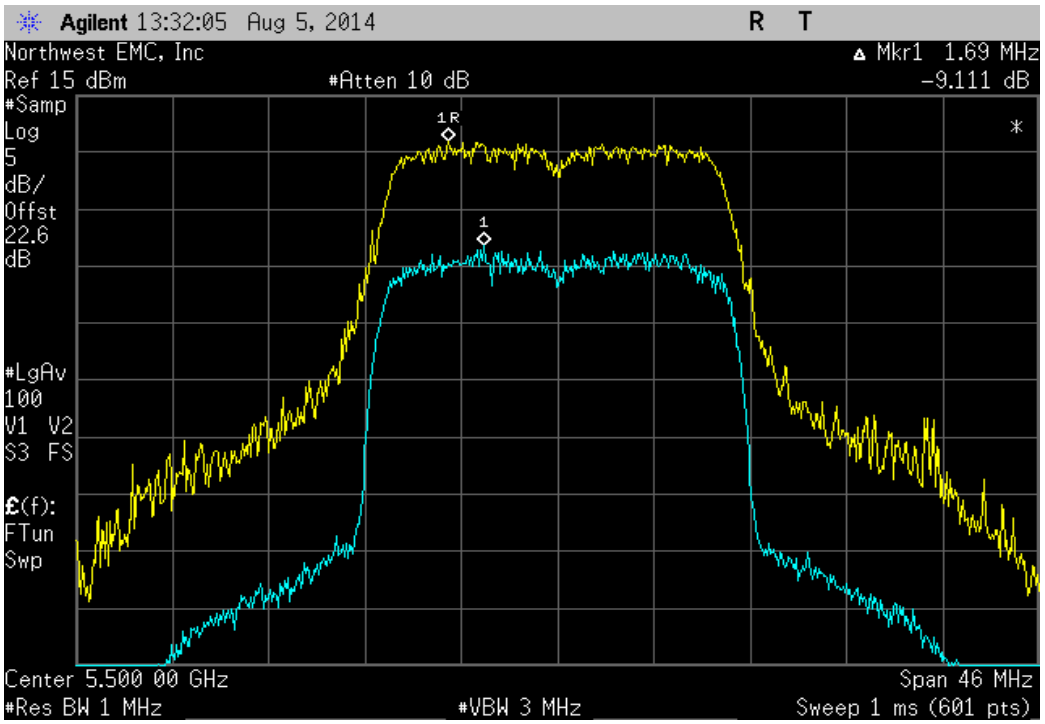
802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.94	13	Pass



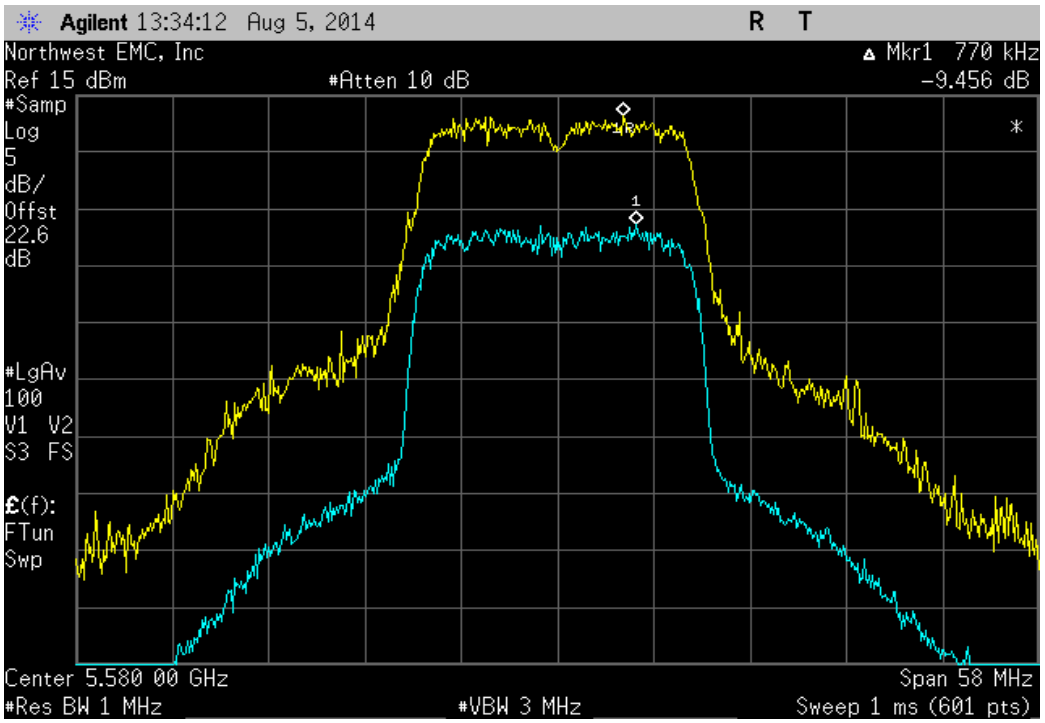
802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.032	13	Pass



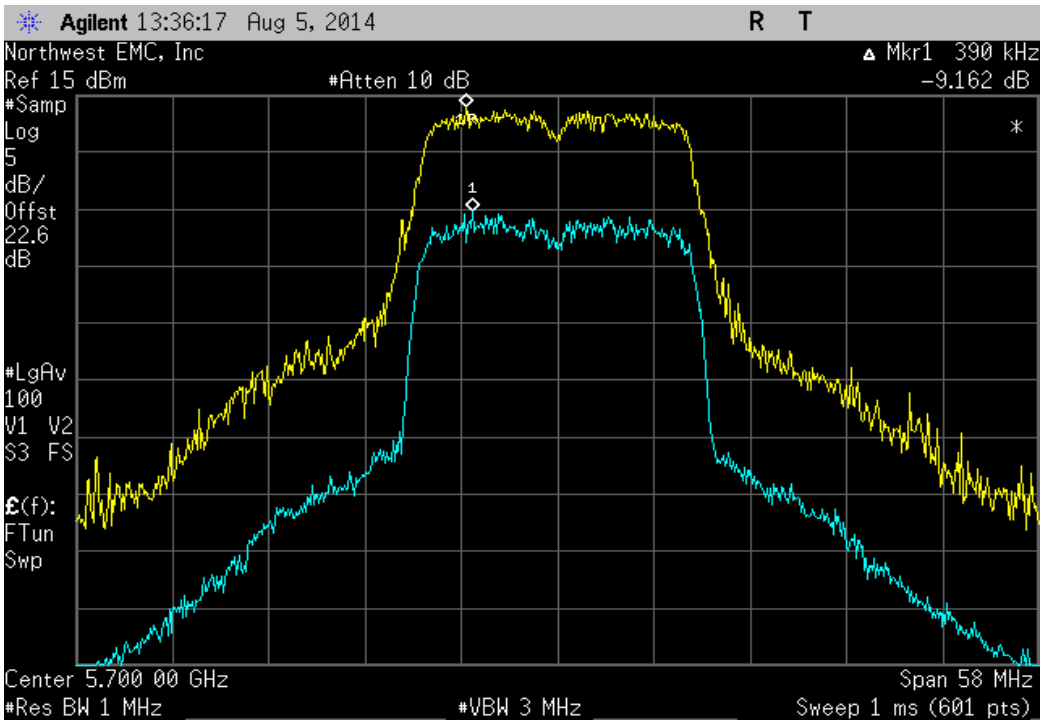
802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.111	13	Pass



802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.456	13	Pass

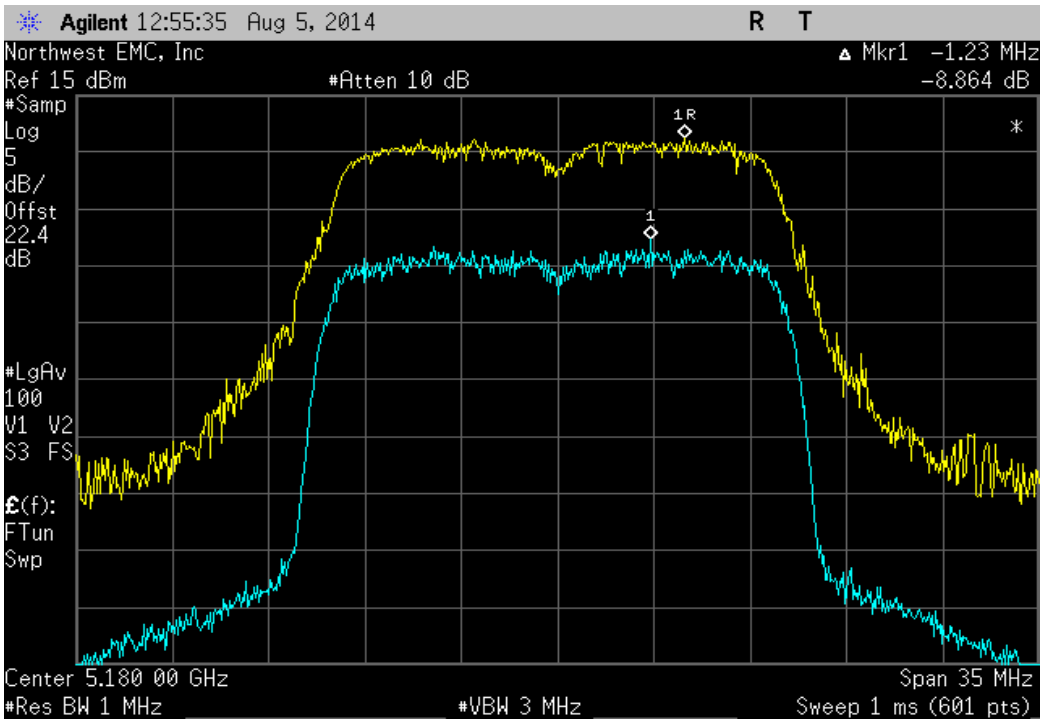


802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.162	13	Pass

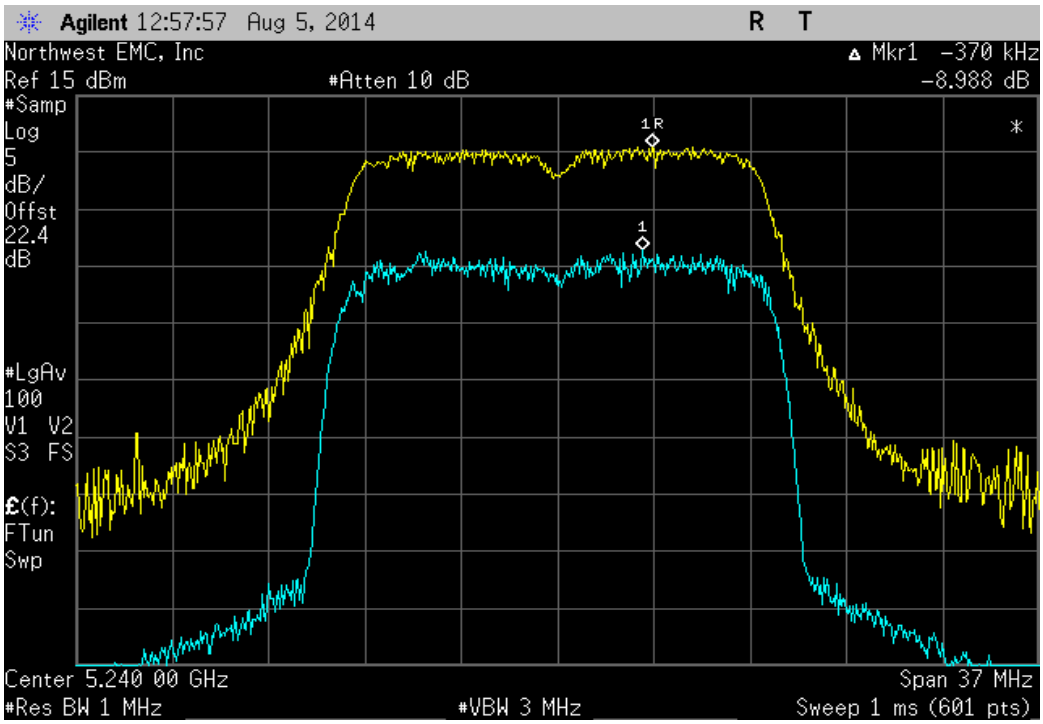


PEAK EXCURSION OF THE MODULATION ENVELOPE

802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
				Value (dB)	Limit ≤ (dB)	Results
				8.864	13	Pass

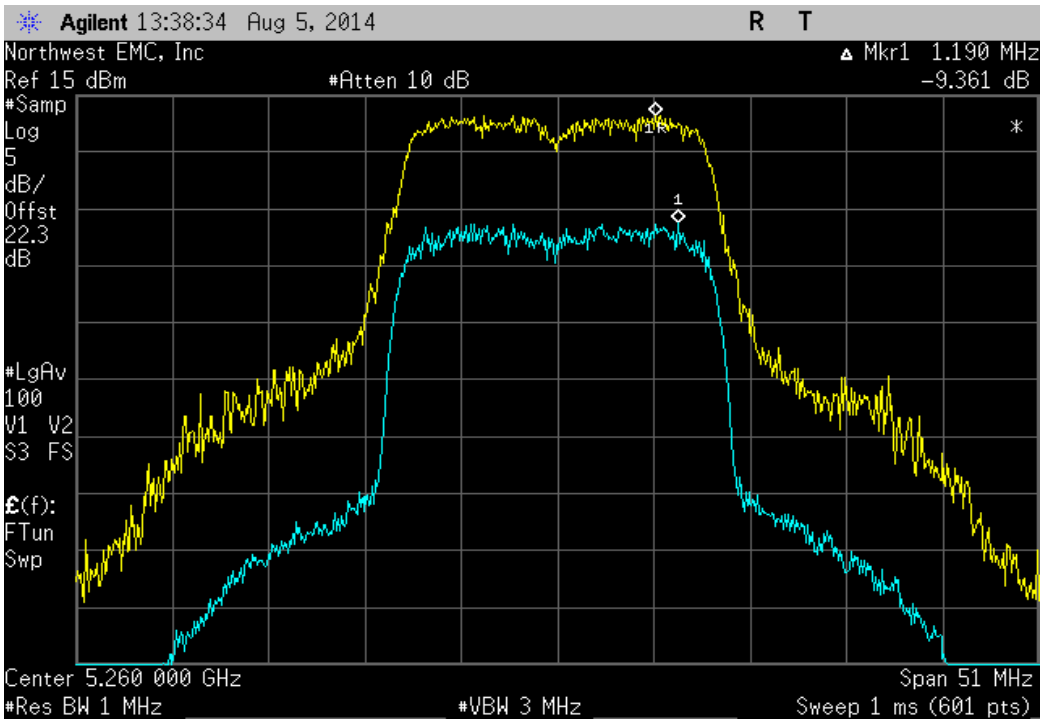


802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
				Value (dB)	Limit ≤ (dB)	Results
				8.988	13	Pass

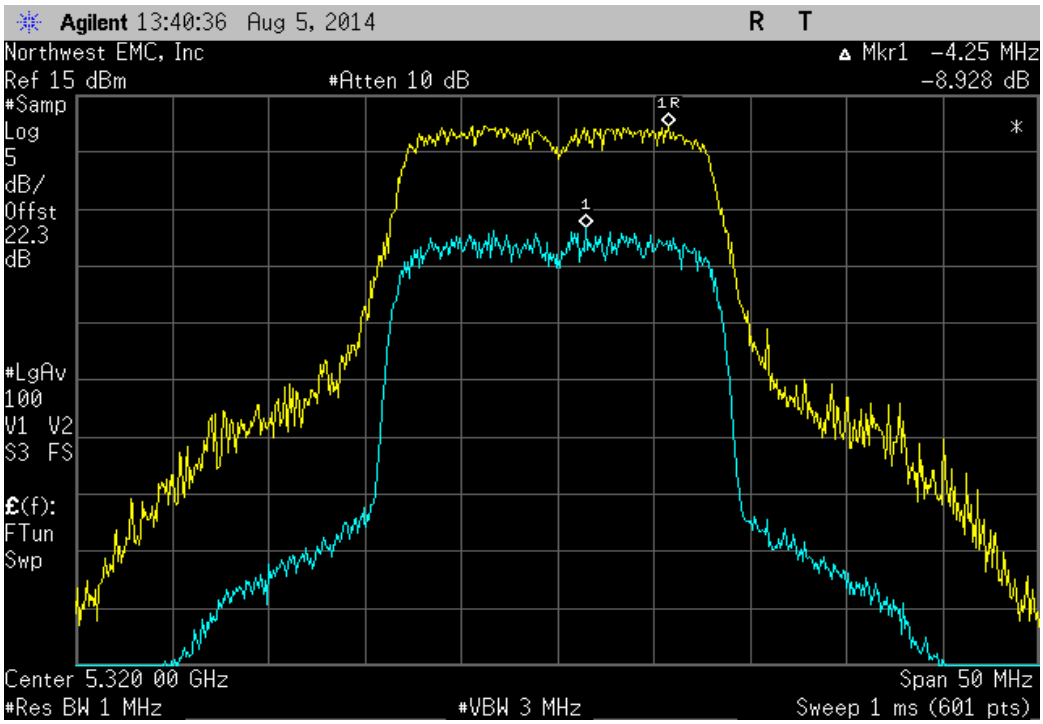


PEAK EXCURSION OF THE MODULATION ENVELOPE

802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.361	13	Pass

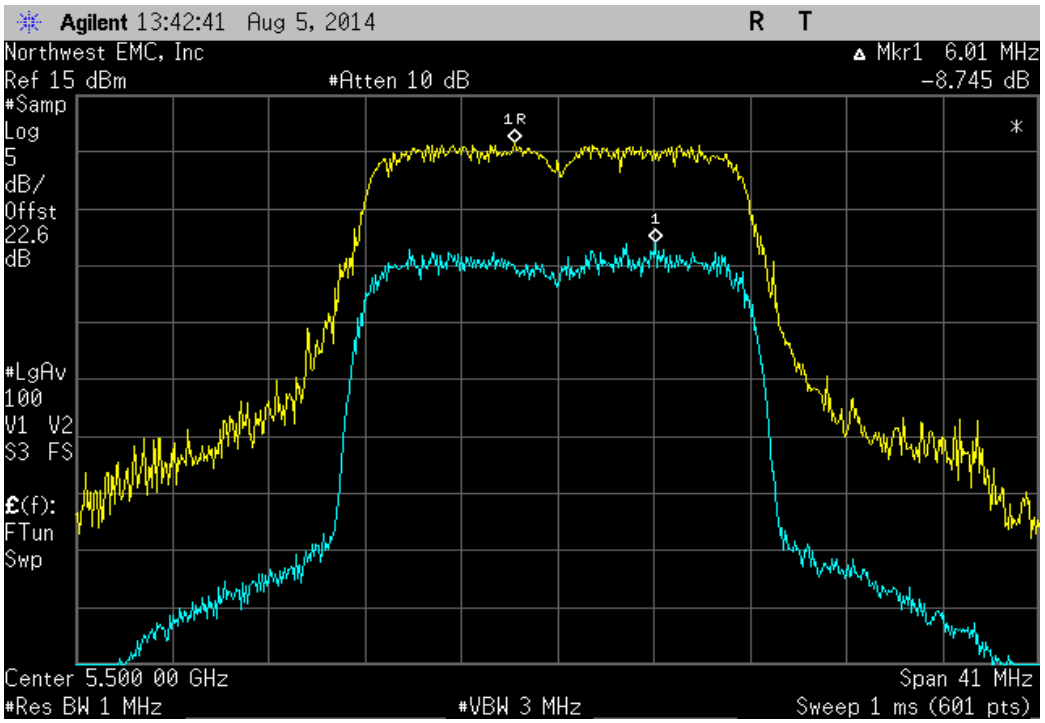


802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
				Value (dB)	Limit ≤ (dB)	Results
				8.928	13	Pass

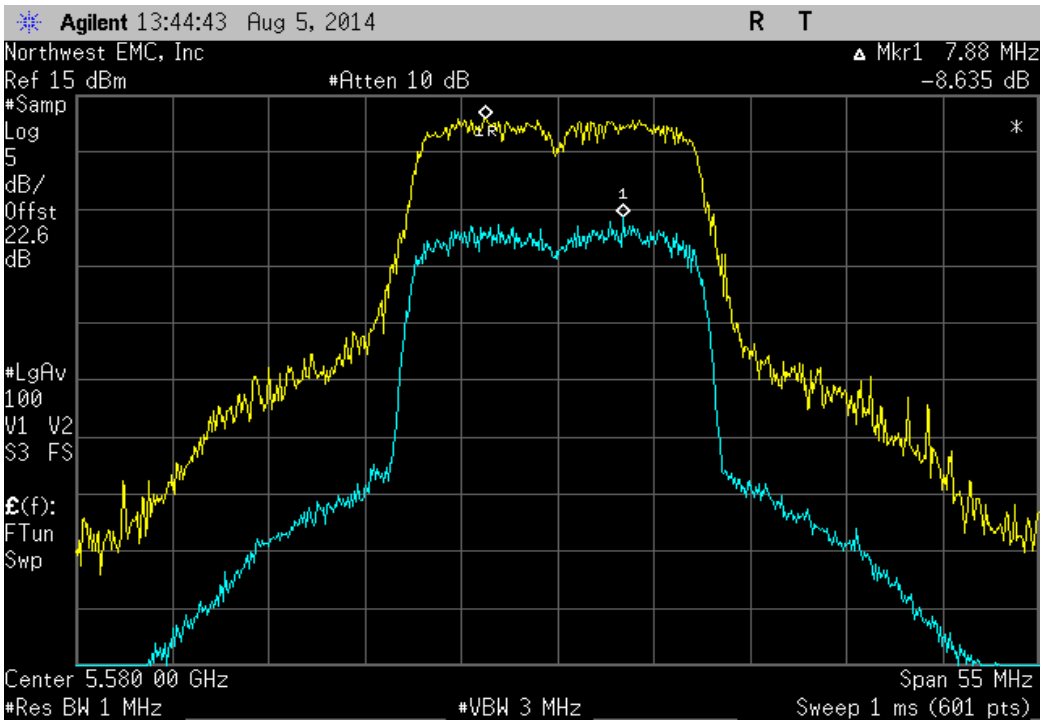


PEAK EXCURSION OF THE MODULATION ENVELOPE

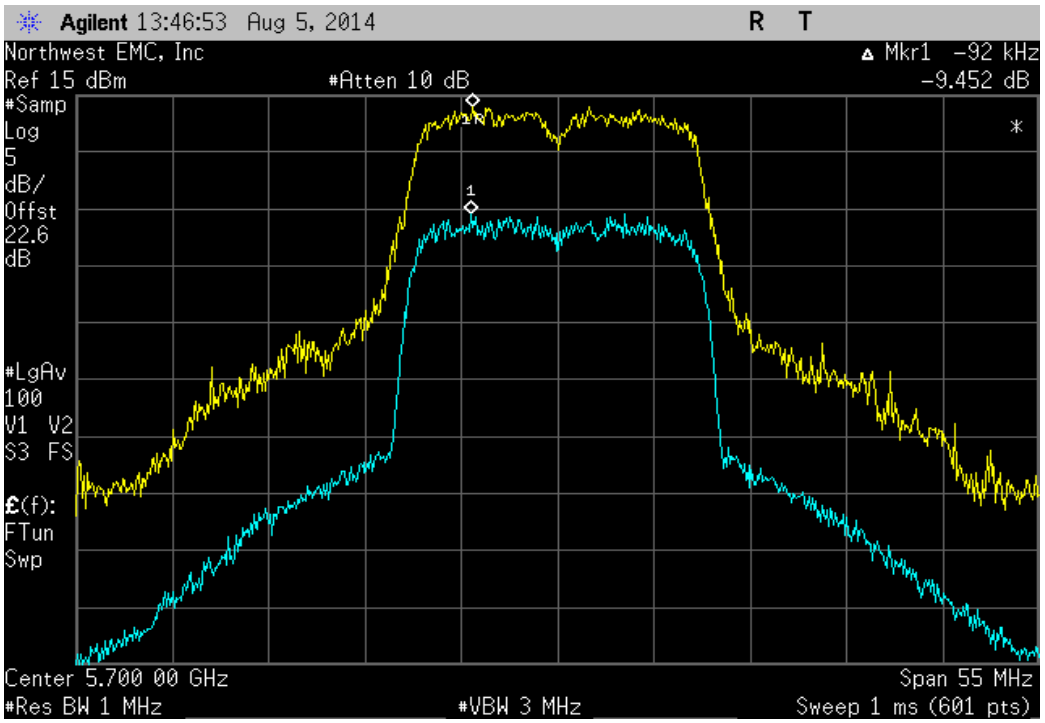
802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
				Value (dB)	Limit ≤ (dB)	Results
				8.745	13	Pass



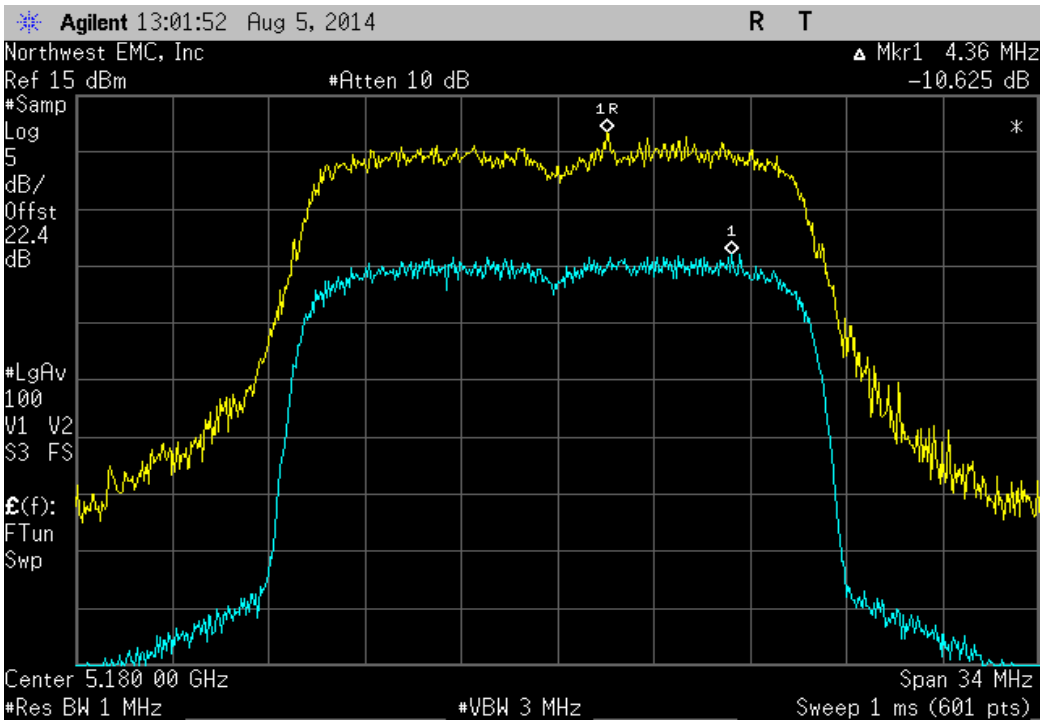
802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel						
				Value (dB)	Limit ≤ (dB)	Results
				8.635	13	Pass



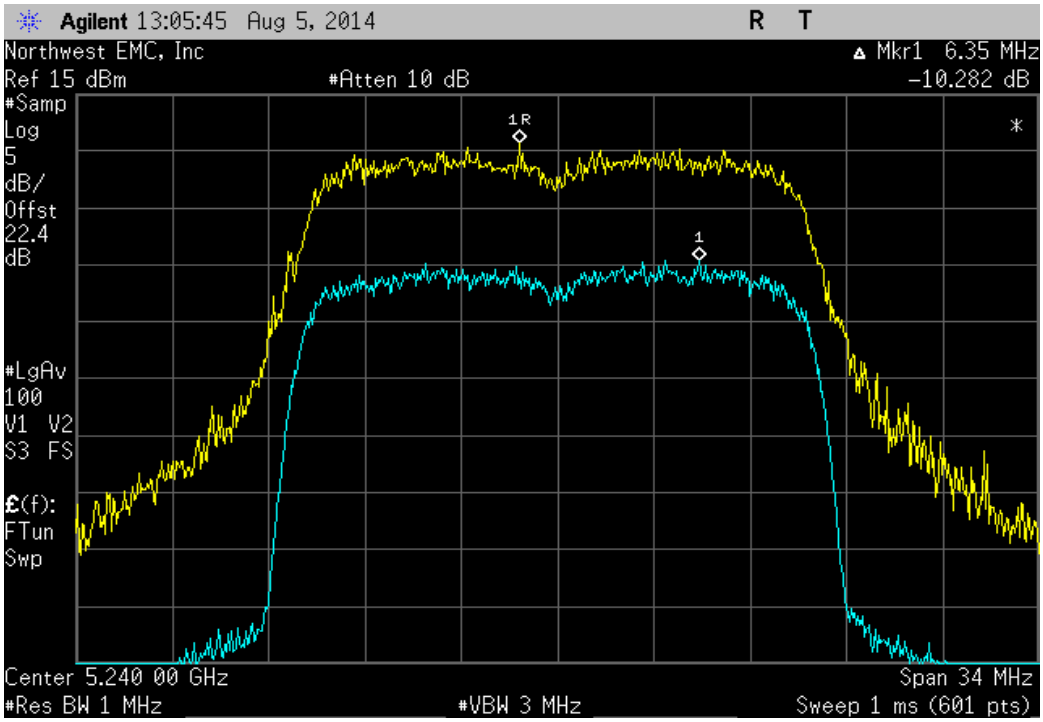
802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.452	13	Pass



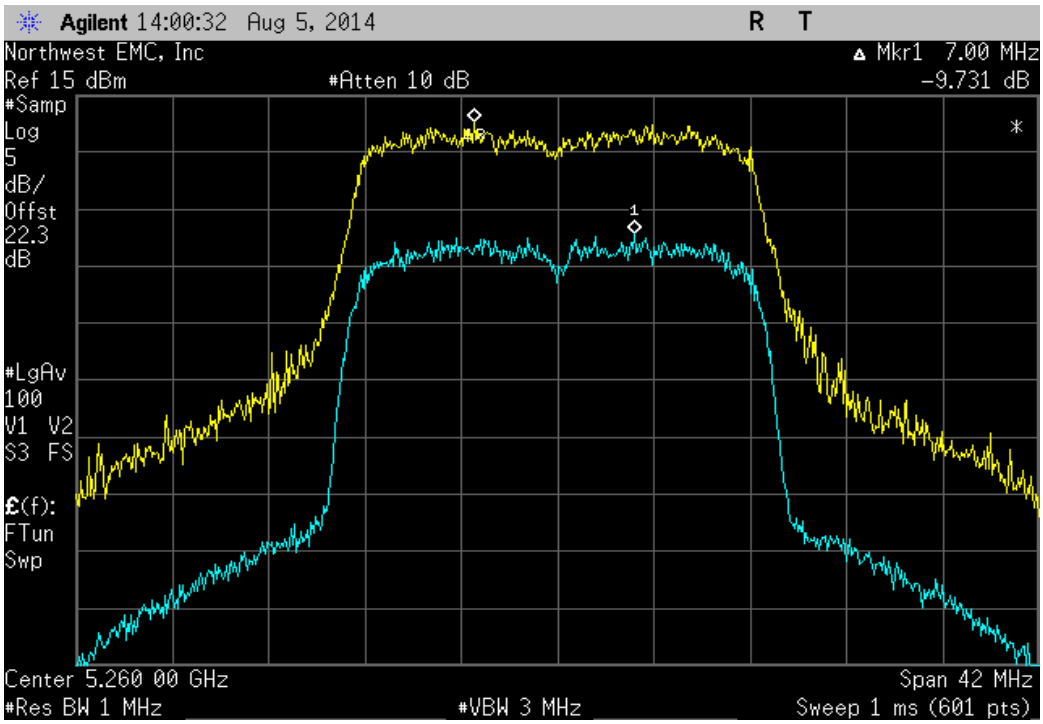
802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 36, Low Channel						
				Value (dB)	Limit ≤ (dB)	Results
				10.625	13	Pass



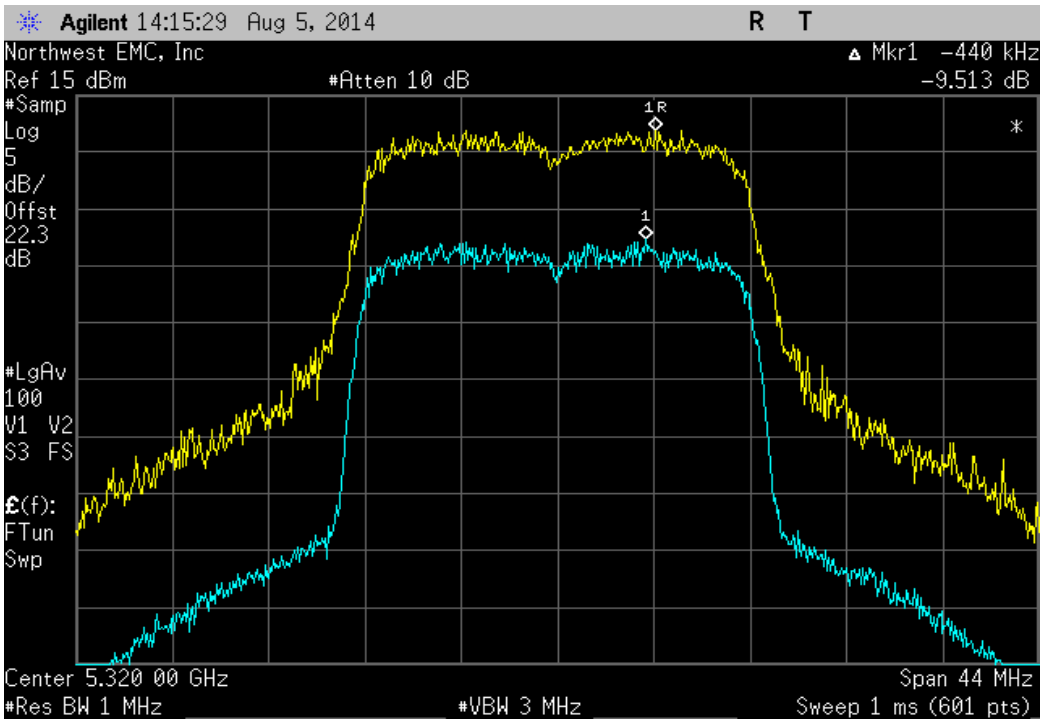
802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 48, High Channel						
				Value (dB)	Limit ≤ (dB)	Results
				10.282	13	Pass



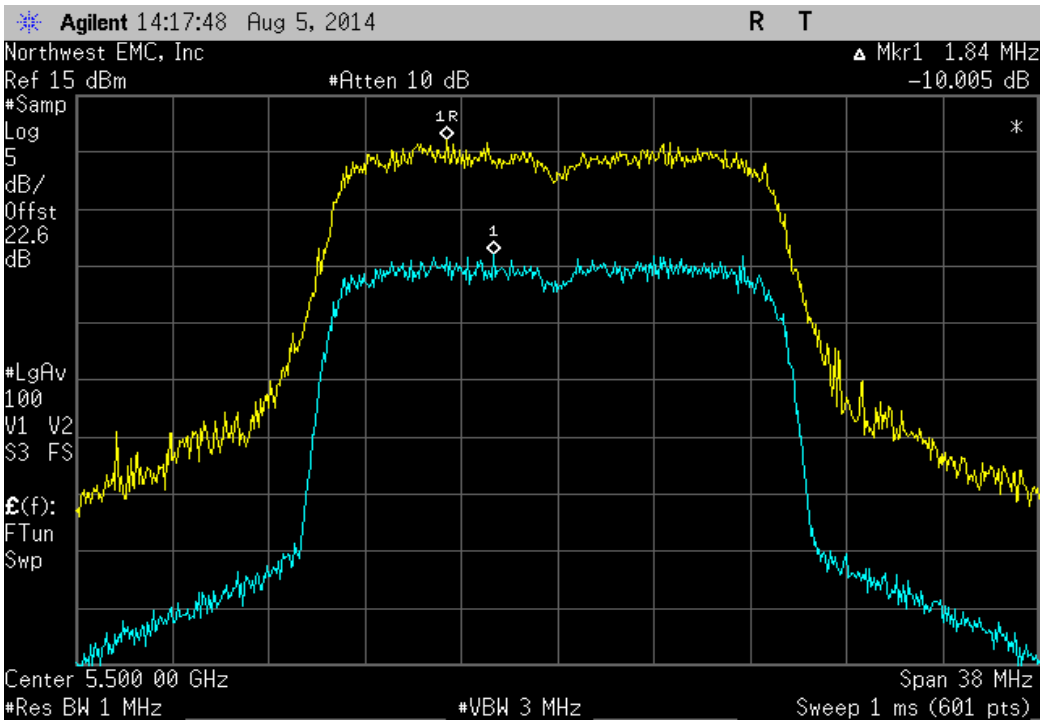
802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 52, Low Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.731	13	Pass



802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 64, High Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.513	13	Pass

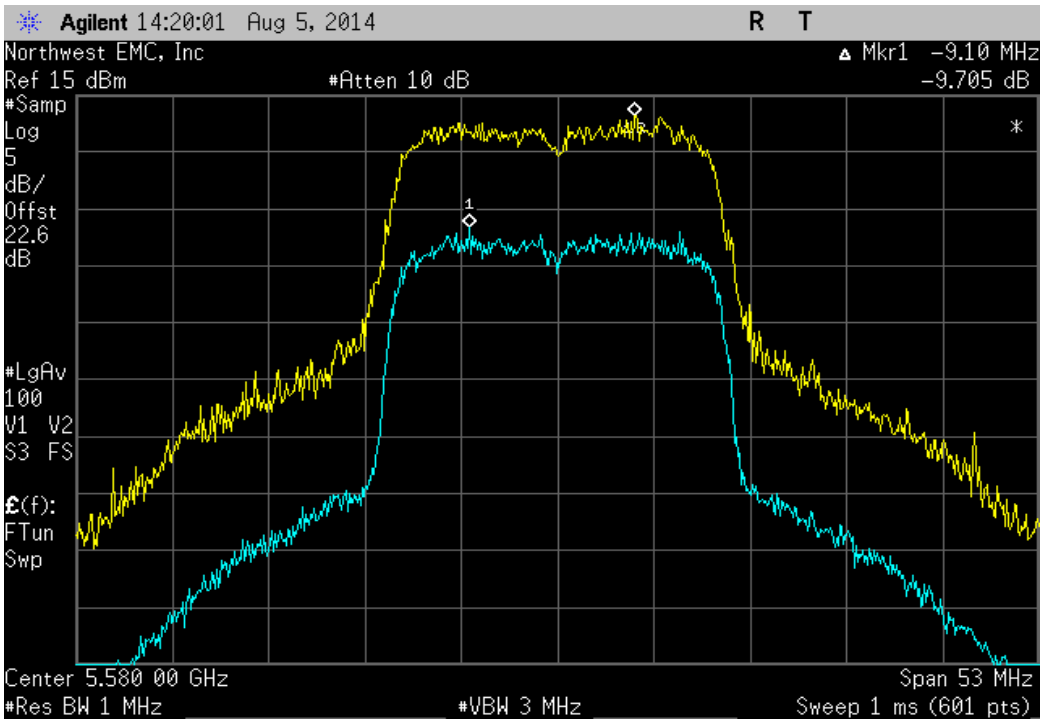


802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 100, Low Channel						
				Value (dB)	Limit ≤ (dB)	Results
				10.005	13	Pass

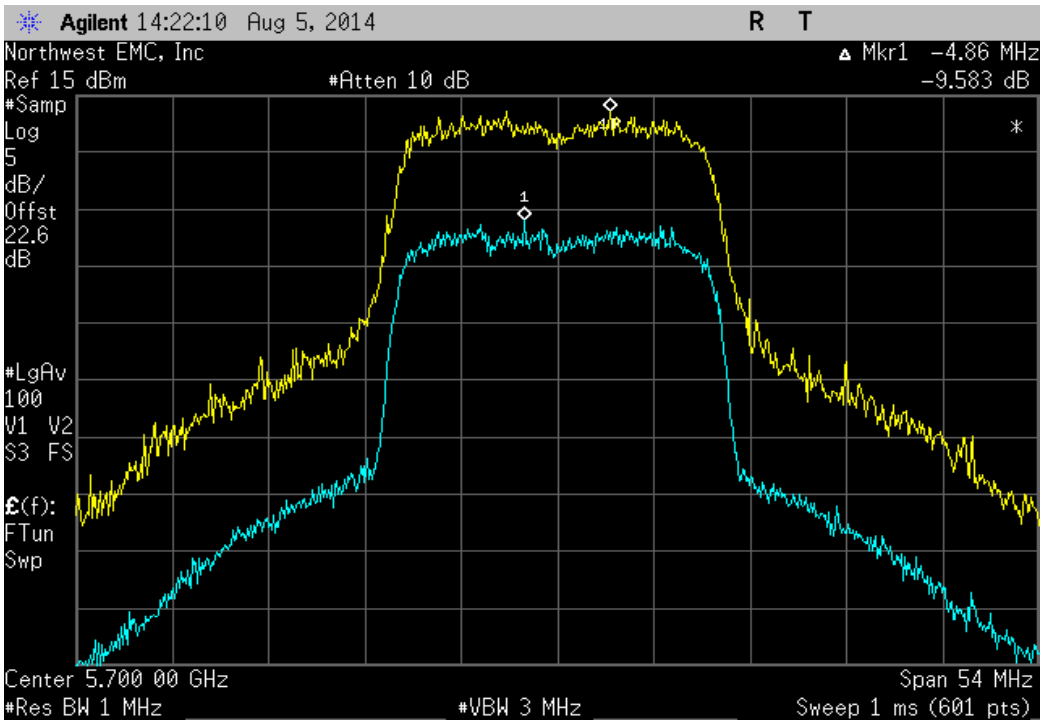


PEAK EXCURSION OF THE MODULATION ENVELOPE

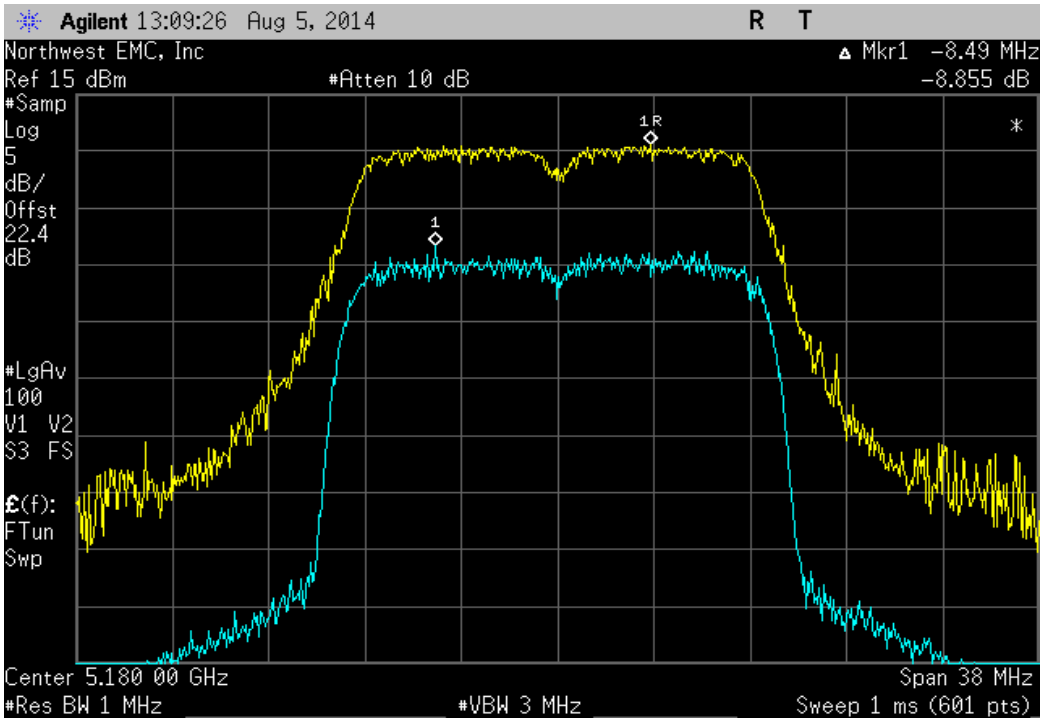
802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 116, Mid Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.705	13	Pass



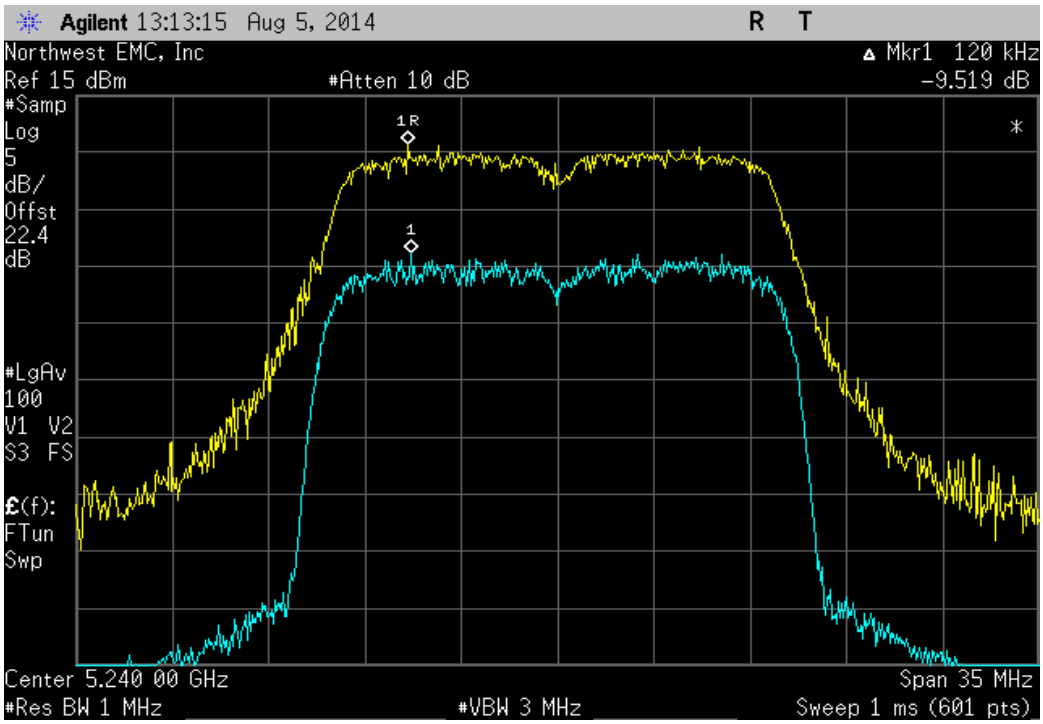
802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 140, High Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.583	13	Pass



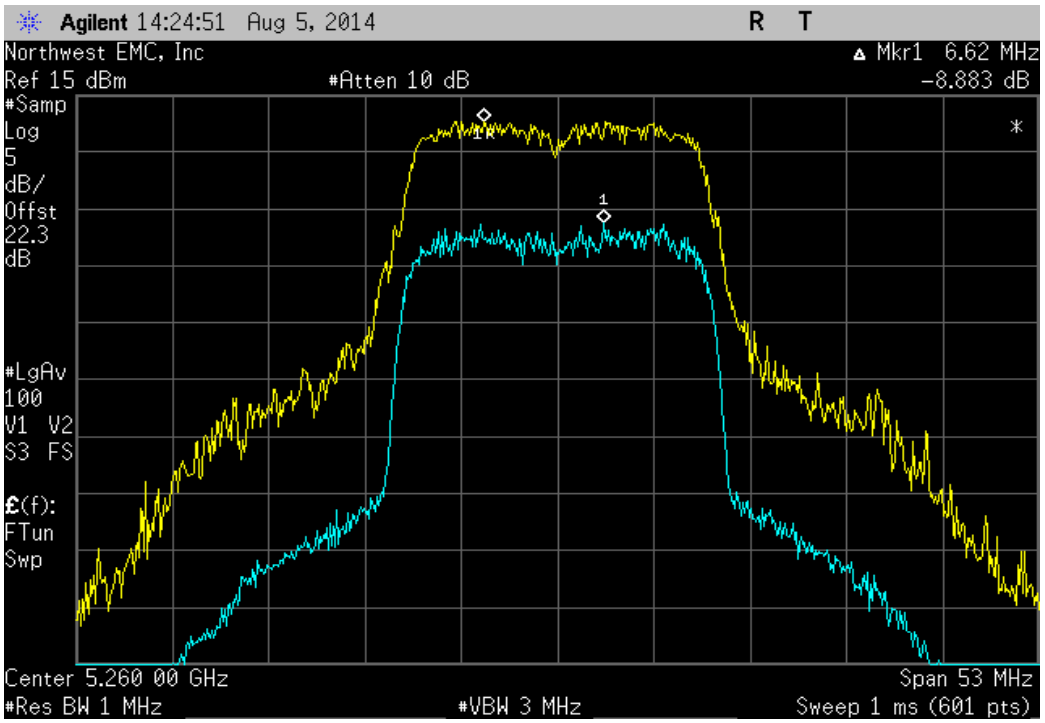
802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 36, Low Channel						
				Value (dB)	Limit ≤ (dB)	Results
				8.855	13	Pass



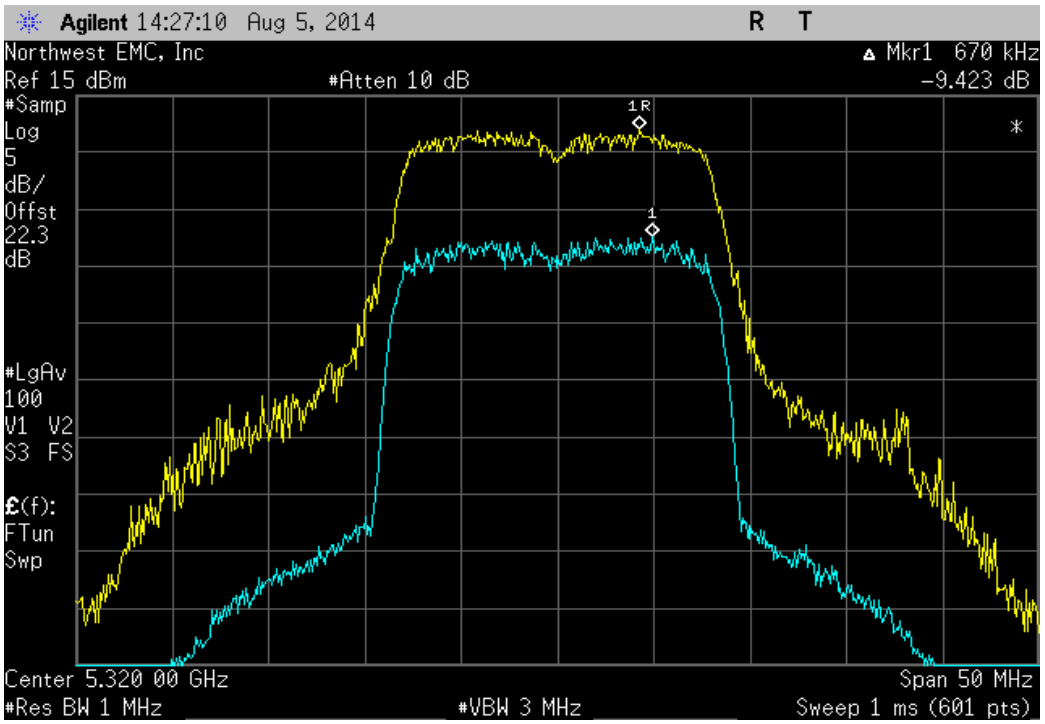
802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 48, High Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.519	13	Pass



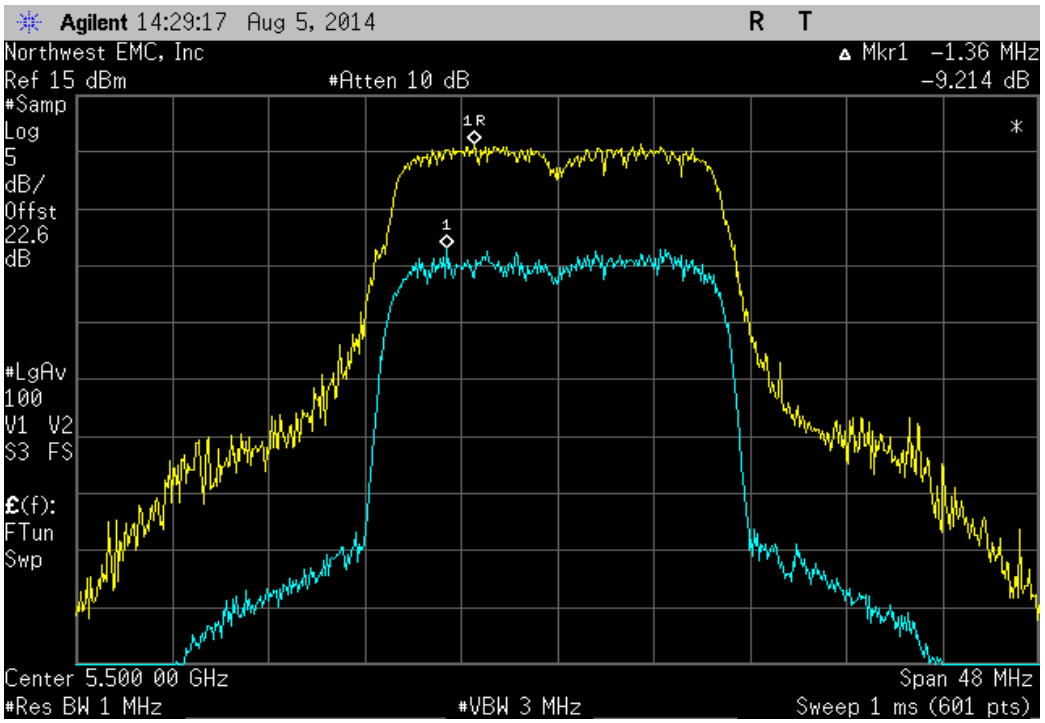
802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 52, Low Channel						
				Value (dB)	Limit ≤ (dB)	Results
				8.883	13	Pass



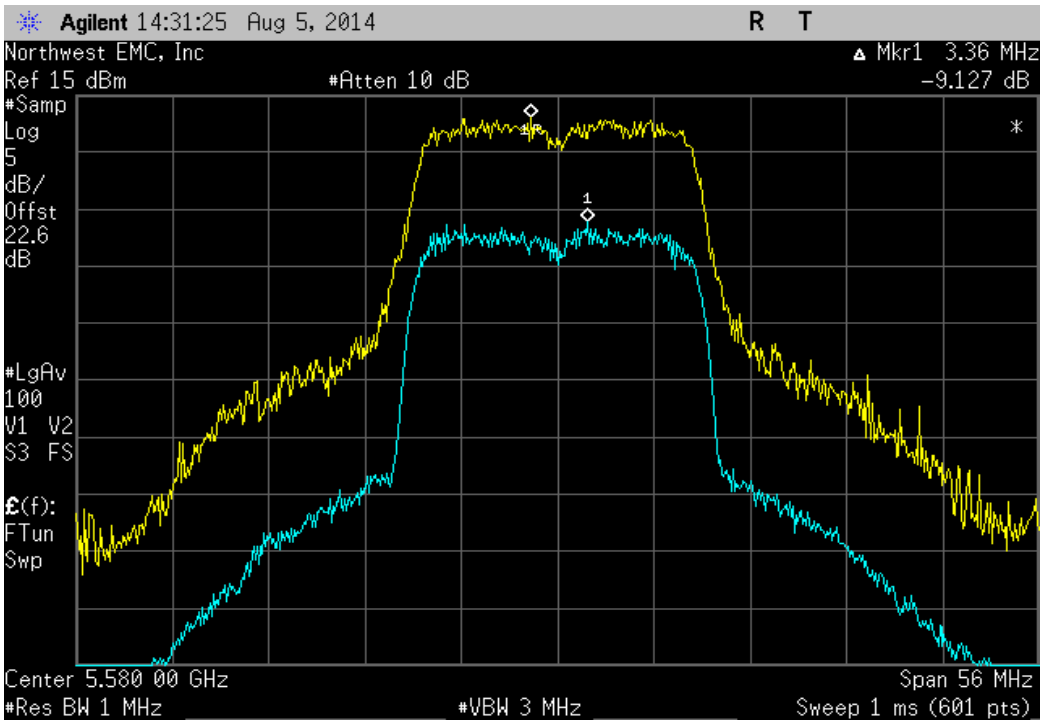
802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 64, High Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.423	13	Pass



802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 100, Low Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.214	13	Pass

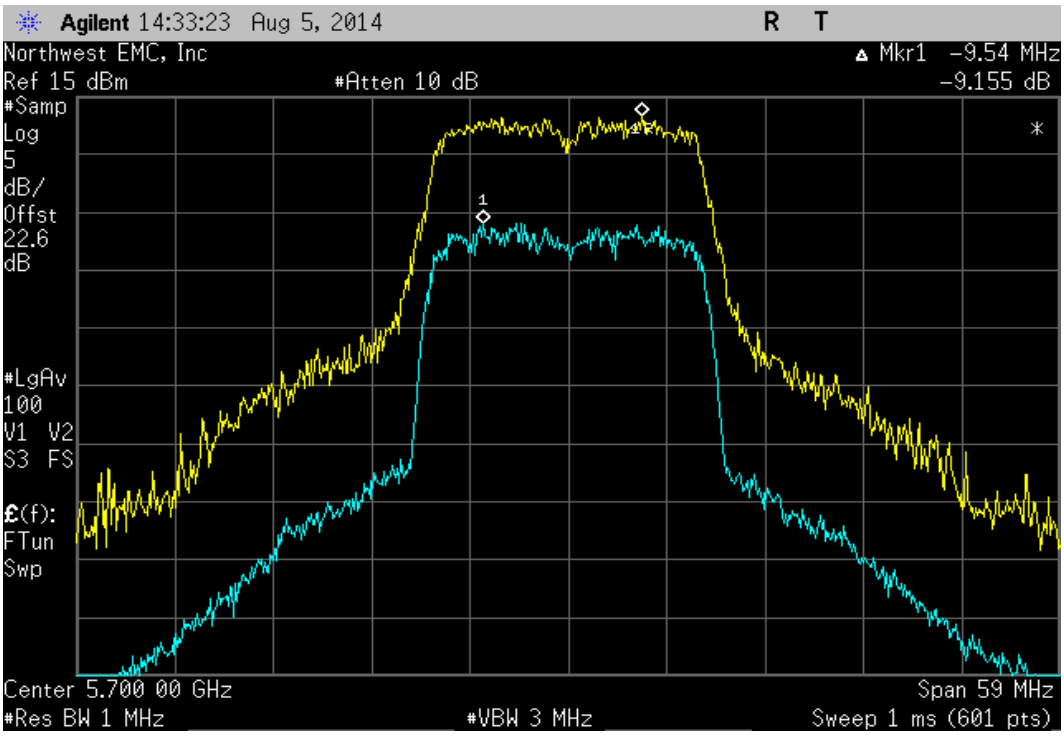


802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 116, Mid Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.127	13	Pass



PEAK EXCURSION OF THE MODULATION ENVELOPE

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 140, High Channel						
				Value (dB)	Limit ≤ (dB)	Results
				9.155	13	Pass



PEAK POWER SPECTRAL DENSITY

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 (mo)
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	9/26/2013	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

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).

PEAK POWER SPECTRAL DENSITY

EUT:	ConnectCore6 (i.MX6)			**Work Order:**	ETHE0008
Serial Number:	00409D7B8CA2			**Date:**	08/21/14
Customer:	Etherios Design Solutions			**Temperature:**	23.3°C
Attendees:	None			**Humidity:**	58%
Project:	None			**Barometric Pres.:**	1010.8
Tested by:	Trevor Buls	**Power:**	5.0VDC	**Job Site:**	MN08

TEST SPECIFICATIONS	Test Method
FCC 15.407:2014	ANSI C63.10:2009

COMMENTS

None

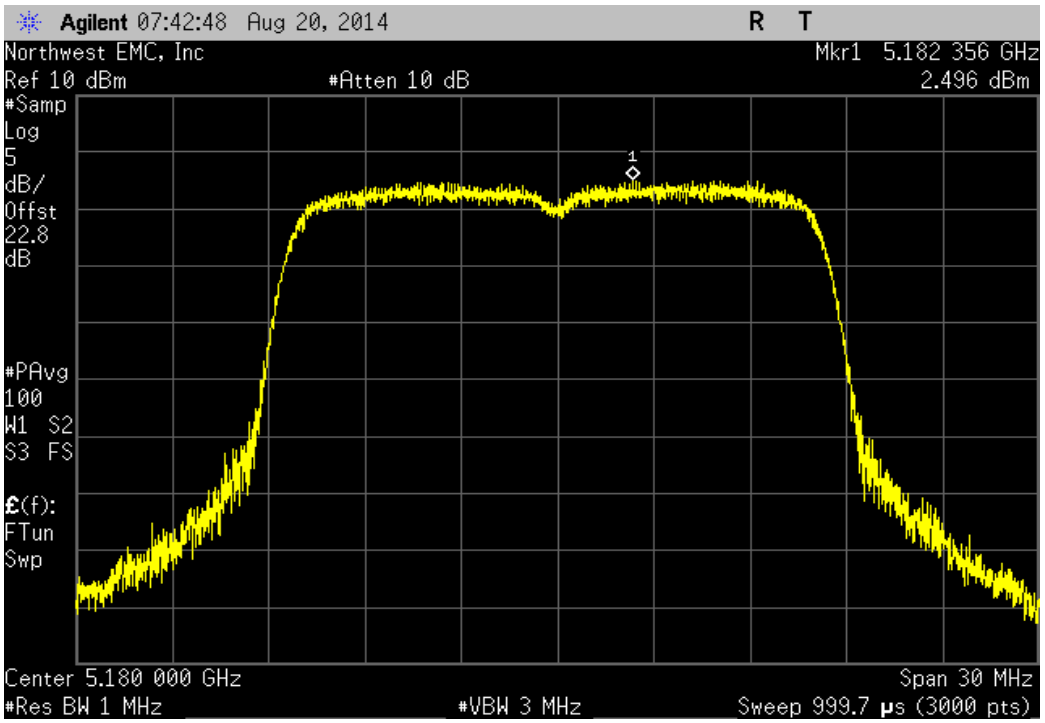
DEVIATIONS FROM TEST STANDARD

None

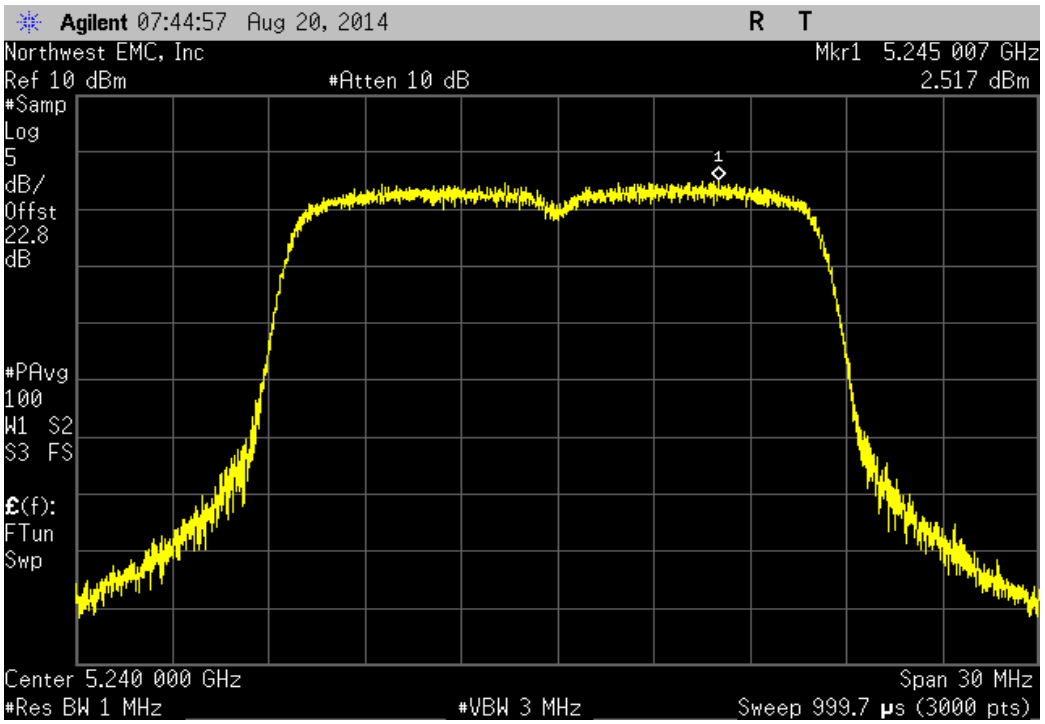
Configuration #	1	Signature	Trevor Buls

	Value (dBm / MHz)	Limit (dBm / MHz)	Results
Port 1			
802.11(a) 6 Mbps			
Ch 36, Low Channel 5180 MHz	2.496	4	Pass
Ch 48, High Channel 5240 MHz	2.517	4	Pass
Ch 52, Low Channel 5260 MHz	0.809	11	Pass
Ch 64, High Channel 5320 MHz	0.302	11	Pass
Ch 100, Low Channel 5500 MHz	-6.268	11	Pass
Ch 116, Mid Channel 5580 MHz	-2.656	11	Pass
Ch 140, High Channel 5700 MHz	-1.422	11	Pass
802.11(a) 36 Mbps			
Ch 36, Low Channel 5180 MHz	2.227	4	Pass
Ch 48, High Channel 5240 MHz	1.898	4	Pass
Ch 52, Low Channel 5260 MHz	1.025	11	Pass
Ch 64, High Channel 5320 MHz	0.504	11	Pass
Ch 100, Low Channel 5500 MHz	-6.218	11	Pass
Ch 116, Mid Channel 5580 MHz	-2.576	11	Pass
Ch 140, High Channel 5700 MHz	-2.036	11	Pass
802.11(a) 54 Mbps			
Ch 36, Low Channel 5180 MHz	0.3	4	Pass
Ch 48, High Channel 5240 MHz	-0.115	4	Pass
Ch 52, Low Channel 5260 MHz	0.669	11	Pass
Ch 64, High Channel 5320 MHz	0.275	11	Pass
Ch 100, Low Channel 5500 MHz	-5.93	11	Pass
Ch 116, Mid Channel 5580 MHz	-4.557	11	Pass
Ch 140, High Channel 5700 MHz	-3.294	11	Pass
802.11(n) MCS0			
Ch 36, Low Channel 5180 MHz	1.38	4	Pass
Ch 48, High Channel 5240 MHz	0.634	4	Pass
Ch 52, Low Channel 5260 MHz	-0.281	11	Pass
Ch 64, High Channel 5320 MHz	-0.834	11	Pass
Ch 100, Low Channel 5500 MHz	-6.894	11	Pass
Ch 116, Mid Channel 5580 MHz	-3.113	11	Pass
Ch 140, High Channel 5700 MHz	-2.419	11	Pass
802.11(n) MCS7			
Ch 36, Low Channel 5180 MHz	-1.332	4	Pass
Ch 48, High Channel 5240 MHz	-1.953	4	Pass
Ch 52, Low Channel 5260 MHz	-1.127	11	Pass
Ch 64, High Channel 5320 MHz	-2.036	11	Pass
Ch 100, Low Channel 5500 MHz	-6.977	11	Pass
Ch 116, Mid Channel 5580 MHz	-3.767	11	Pass
Ch 140, High Channel 5700 MHz	-2.929	11	Pass

Port 1, 802.11(a) 6 Mbps, Ch 36, Low Channel 5180 MHz							
					Value (dBm / MHz)	Limit (dBm / MHz)	Results
					2.496	4	Pass

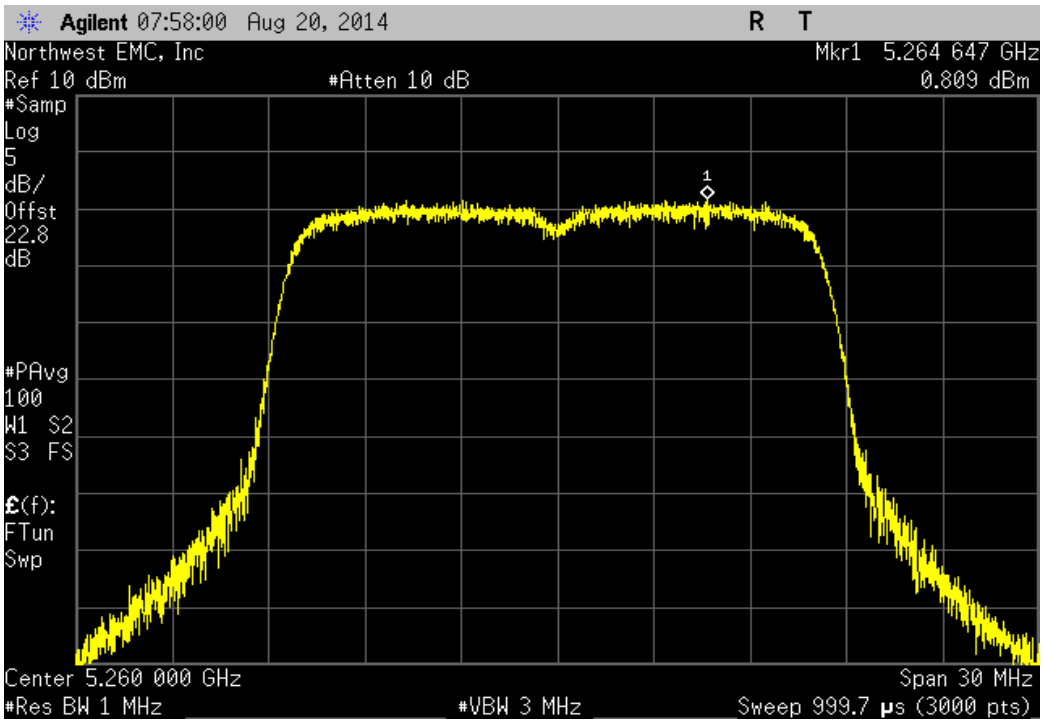


Port 1, 802.11(a) 6 Mbps, Ch 48, High Channel 5240 MHz							
					Value (dBm / MHz)	Limit (dBm / MHz)	Results
					2.517	4	Pass

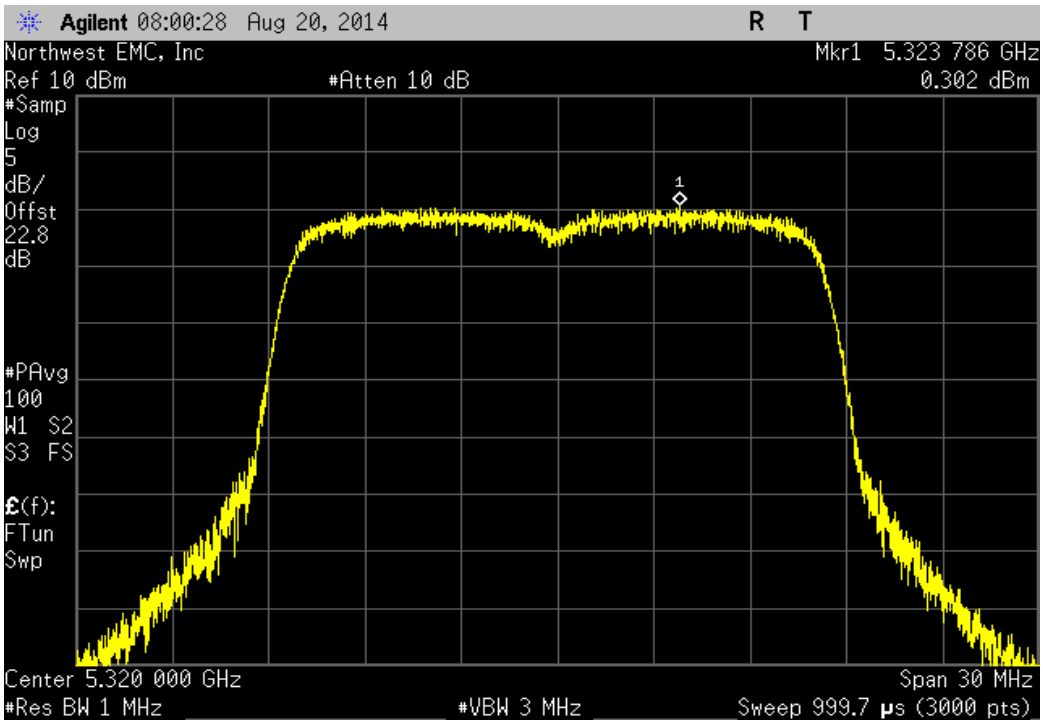


PEAK POWER SPECTRAL DENSITY

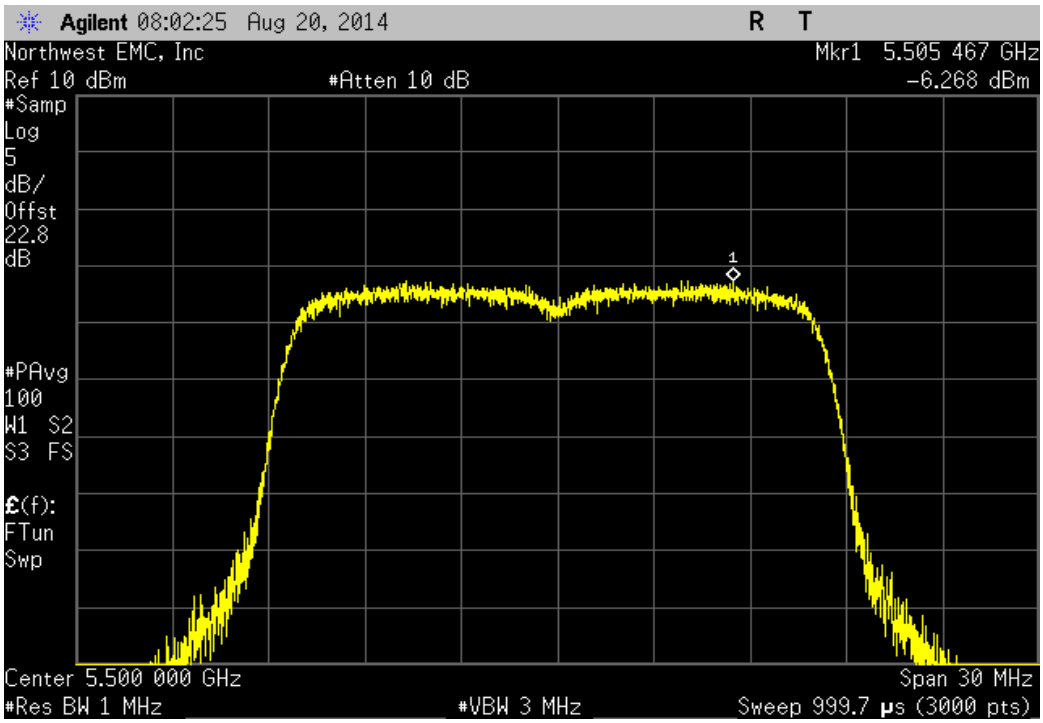
Port 1, 802.11(a) 6 Mbps, Ch 52, Low Channel 5260 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				0.809	11	Pass



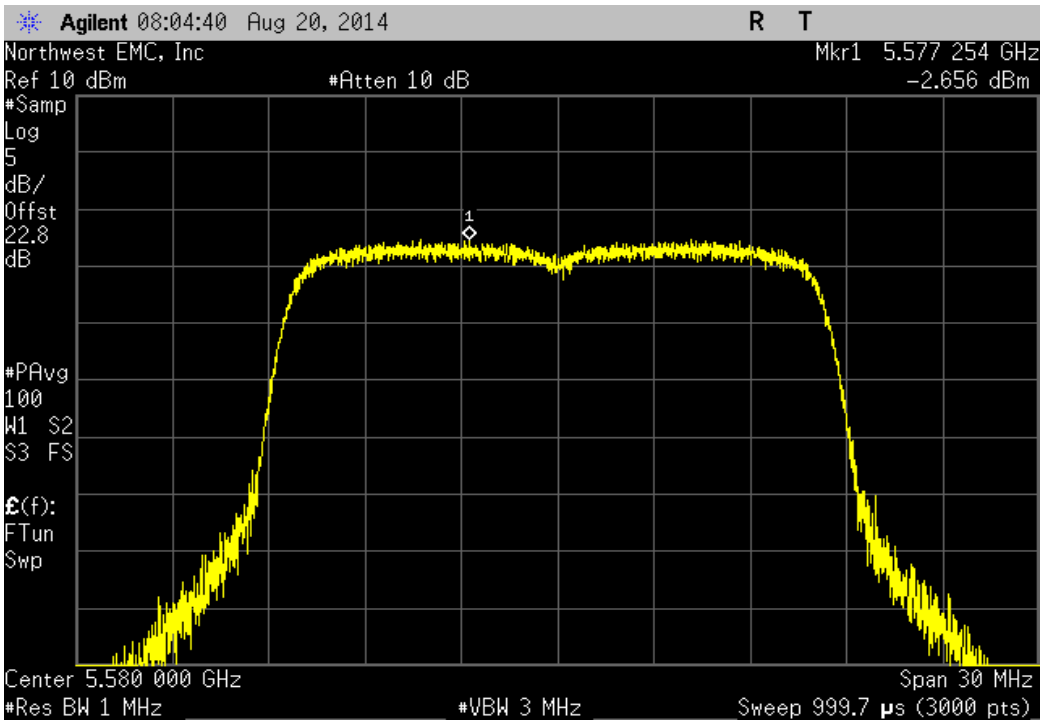
Port 1, 802.11(a) 6 Mbps, Ch 64, High Channel 5320 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				0.302	11	Pass



Port 1, 802.11(a) 6 Mbps, Ch 100, Low Channel 5500 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-6.268	11	Pass

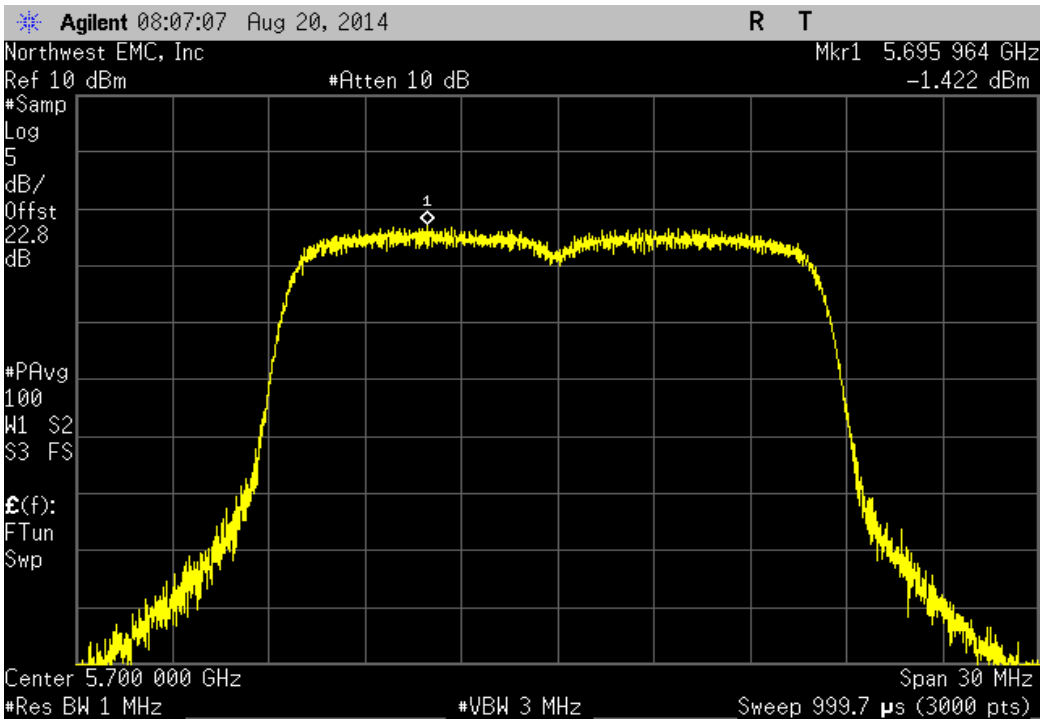


Port 1, 802.11(a) 6 Mbps, Ch 116, Mid Channel 5580 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-2.656	11	Pass

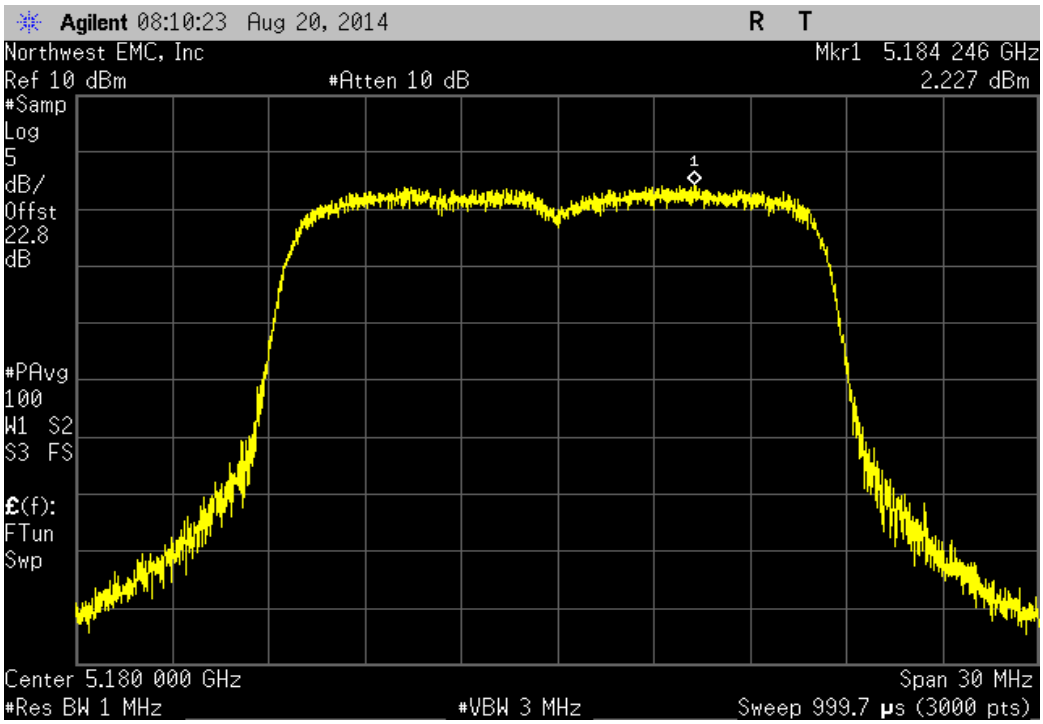


PEAK POWER SPECTRAL DENSITY

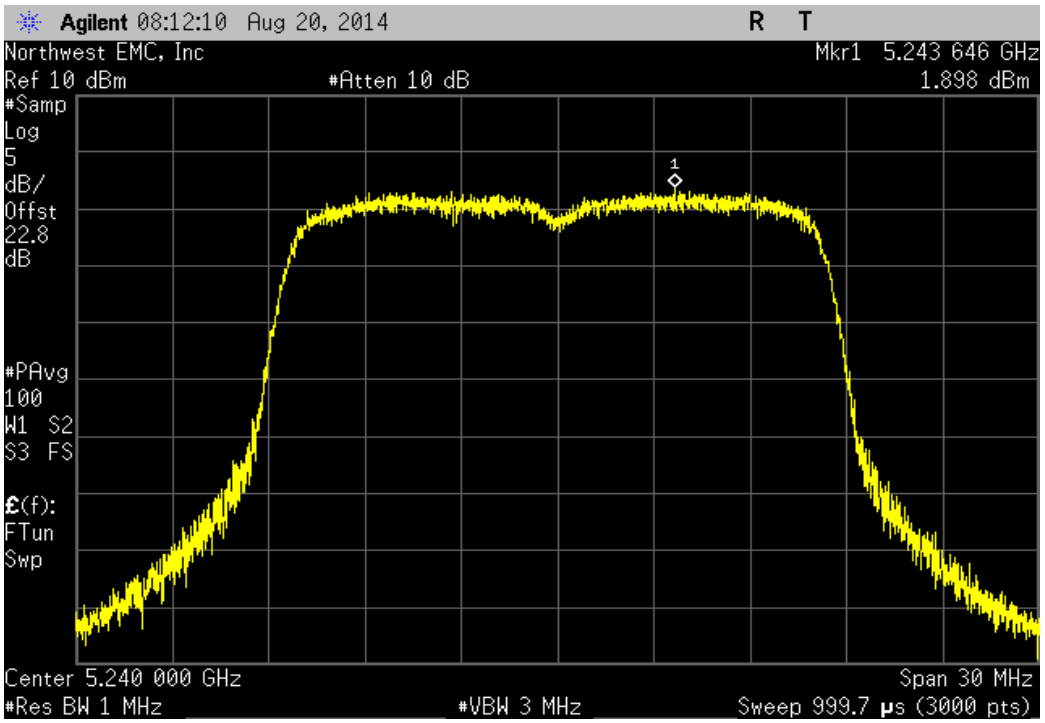
Port 1, 802.11(a) 6 Mbps, Ch 140, High Channel 5700 MHz							
					Value (dBm / MHz)	Limit (dBm / MHz)	Results
					-1.422	11	Pass



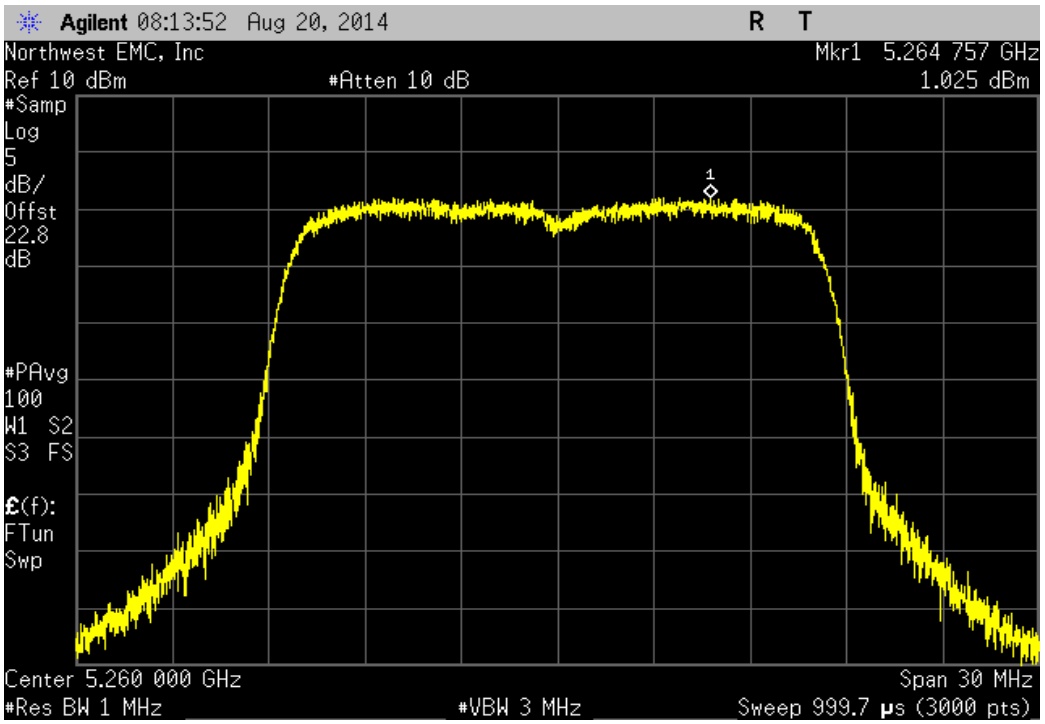
Port 1, 802.11(a) 36 Mbps, Ch 36, Low Channel 5180 MHz							
					Value (dBm / MHz)	Limit (dBm / MHz)	Results
					2.227	4	Pass



Port 1, 802.11(a) 36 Mbps, Ch 48, High Channel 5240 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				1.898	4	Pass



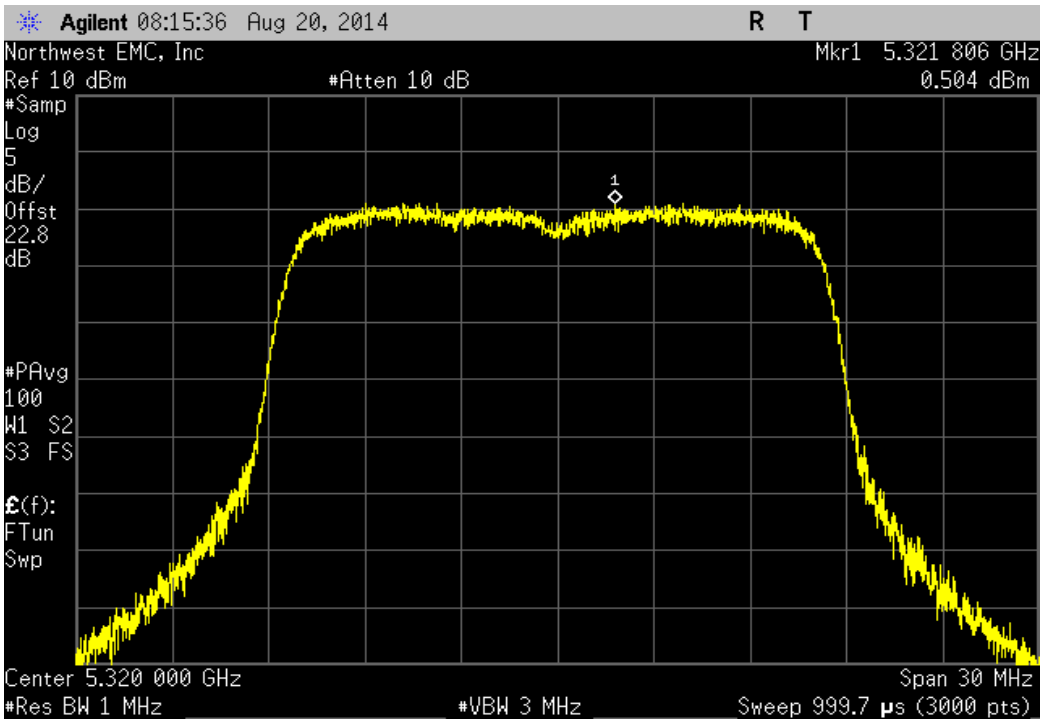
Port 1, 802.11(a) 36 Mbps, Ch 52, Low Channel 5260 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				1.025	11	Pass



PEAK POWER SPECTRAL DENSITY

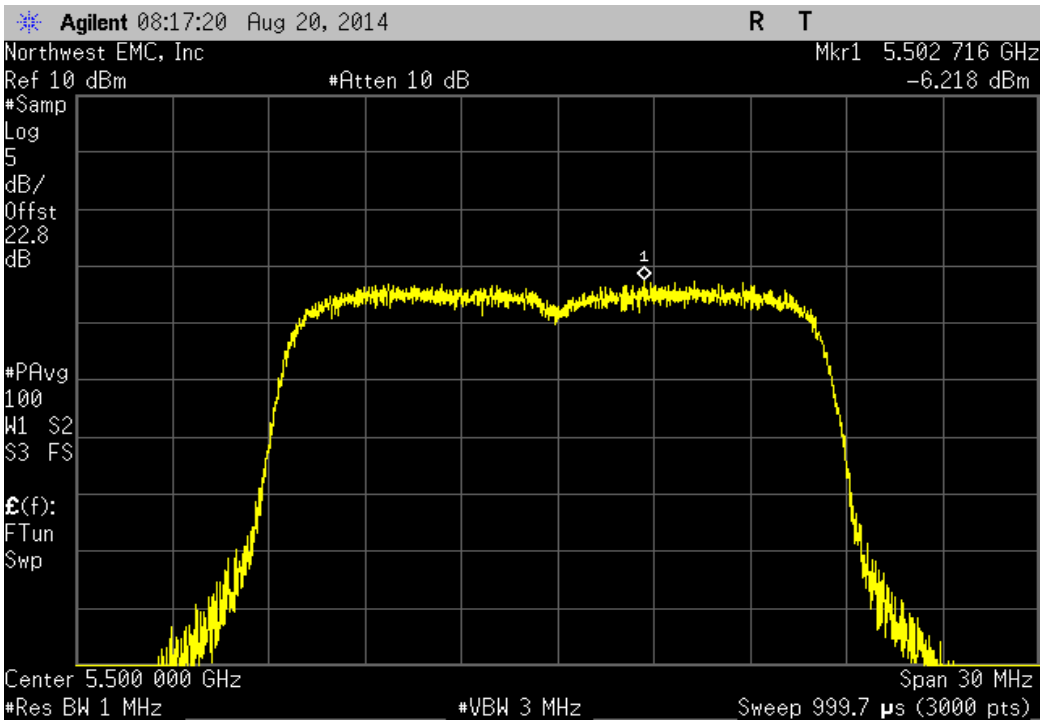
Port 1, 802.11(a) 36 Mbps, Ch 64, High Channel 5320 MHz

				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				0.504	11	Pass



Port 1, 802.11(a) 36 Mbps, Ch 100, Low Channel 5500 MHz

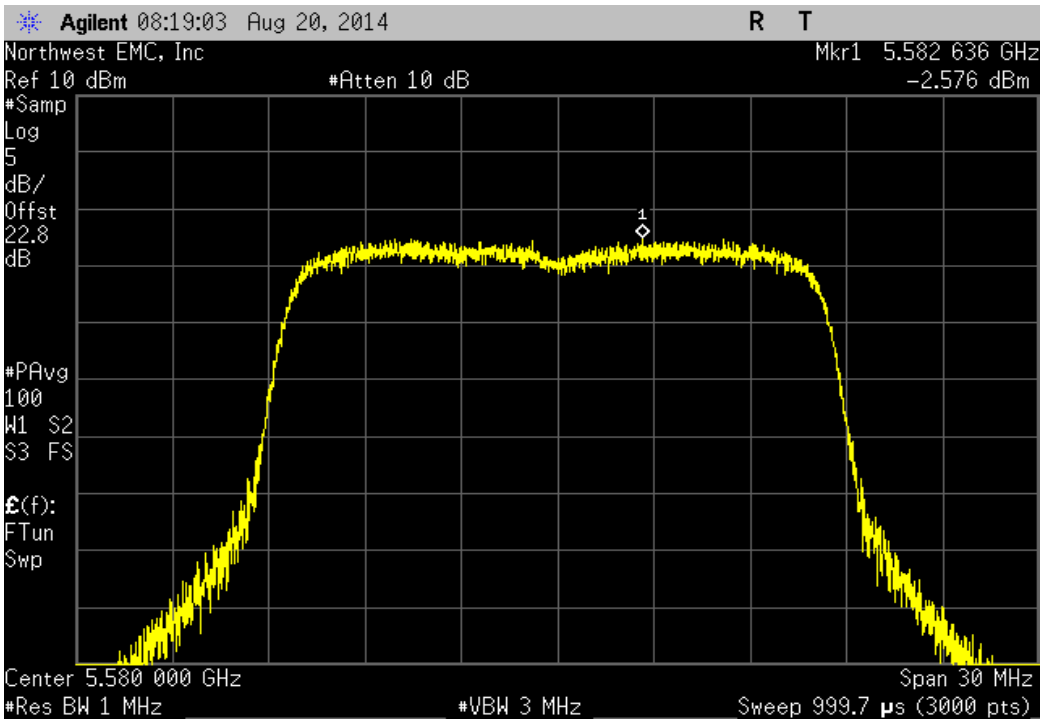
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-6.218	11	Pass



PEAK POWER SPECTRAL DENSITY

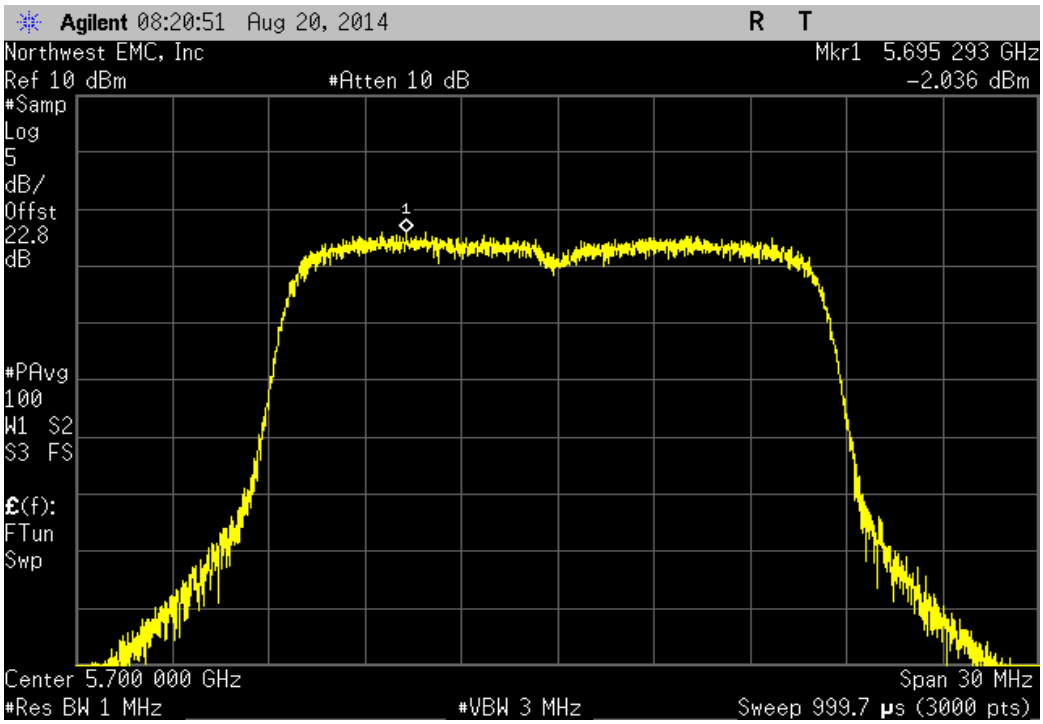
Port 1, 802.11(a) 36 Mbps, Ch 116, Mid Channel 5580 MHz

				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-2.576	11	Pass



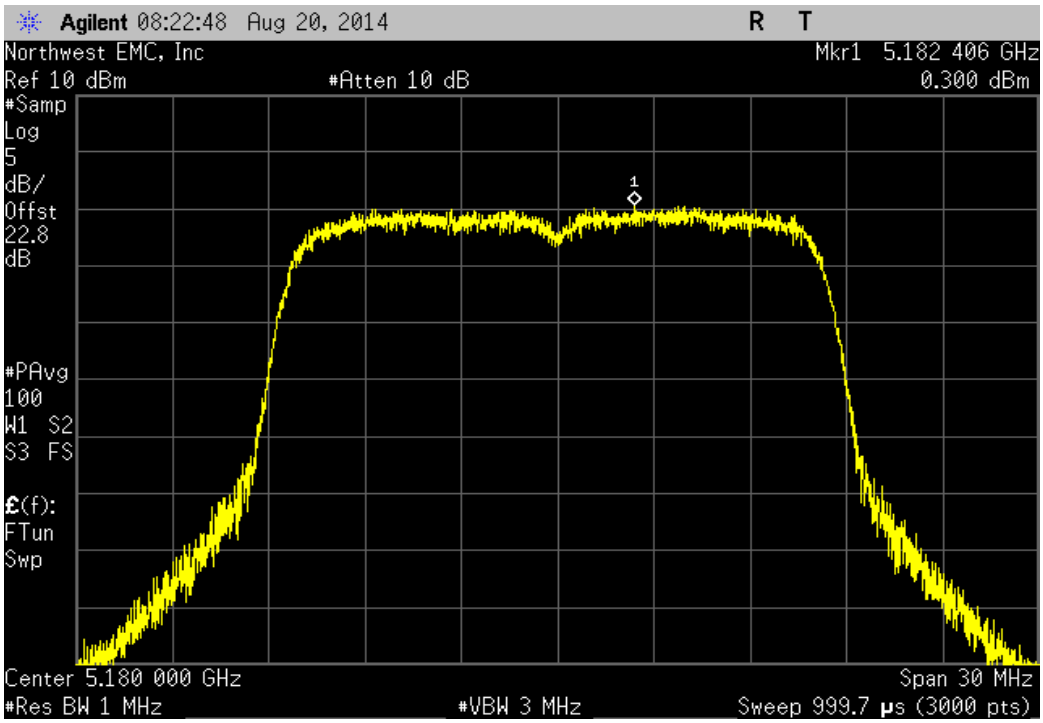
Port 1, 802.11(a) 36 Mbps, Ch 140, High Channel 5700 MHz

				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-2.036	11	Pass

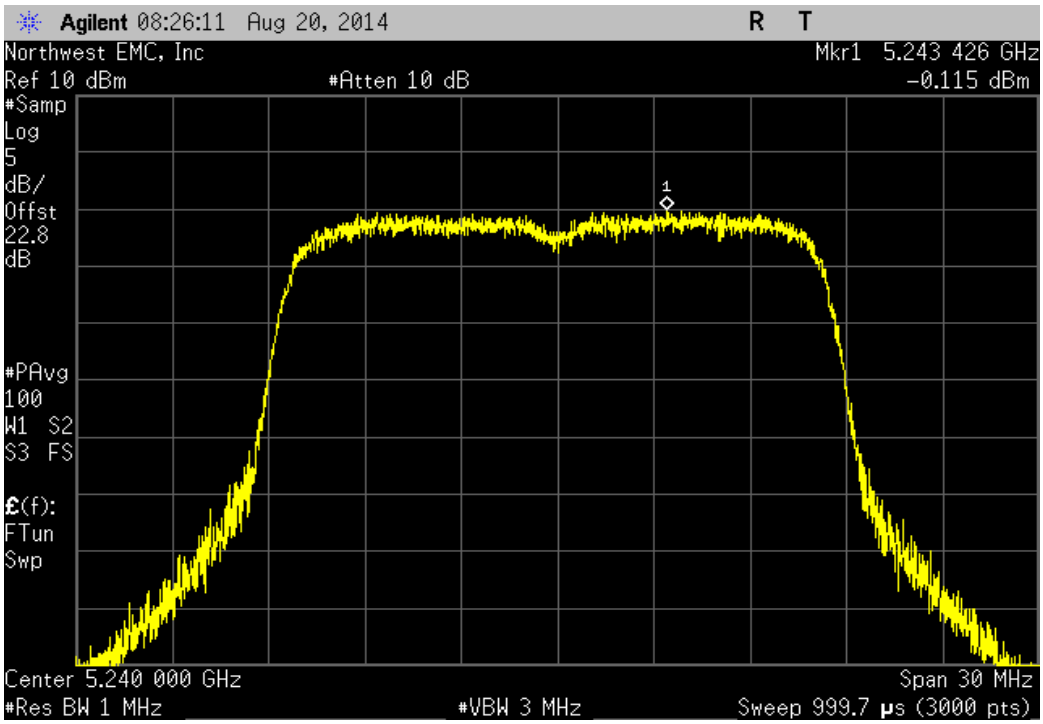


PEAK POWER SPECTRAL DENSITY

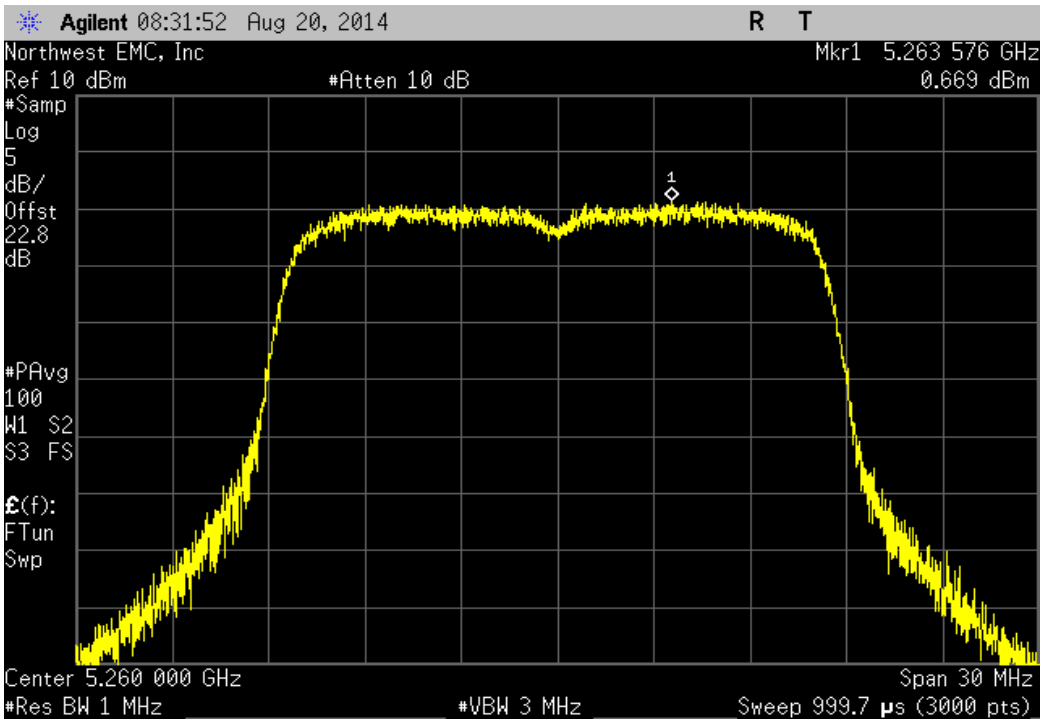
Port 1, 802.11(a) 54 Mbps, Ch 36, Low Channel 5180 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				0.3	4	Pass



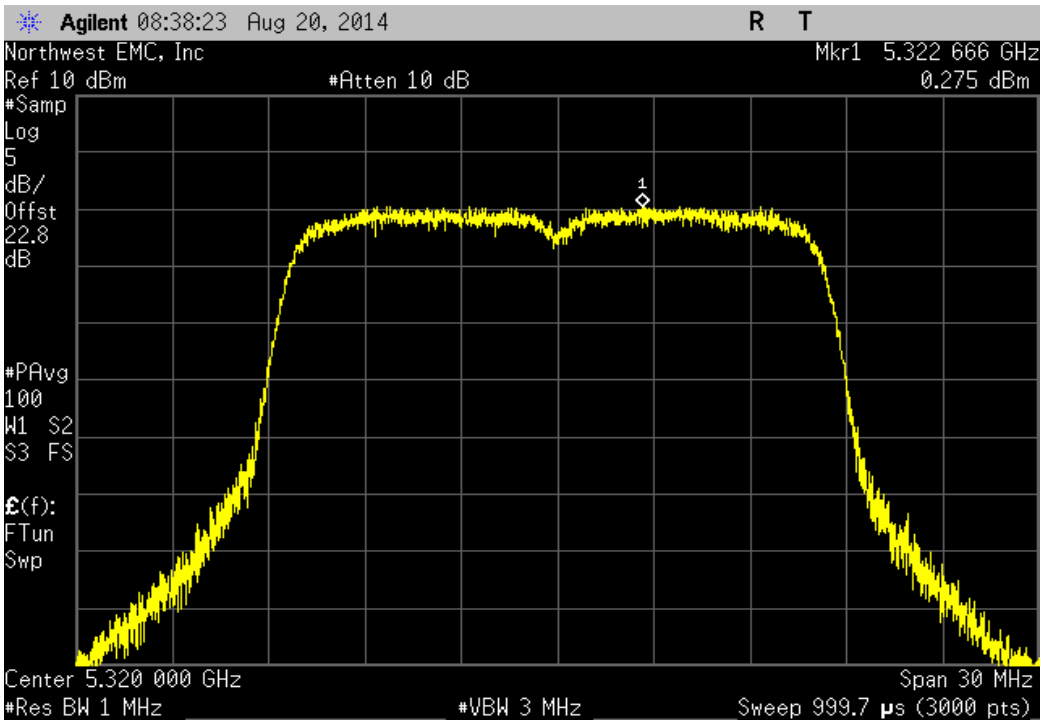
Port 1, 802.11(a) 54 Mbps, Ch 48, High Channel 5240 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-0.115	4	Pass



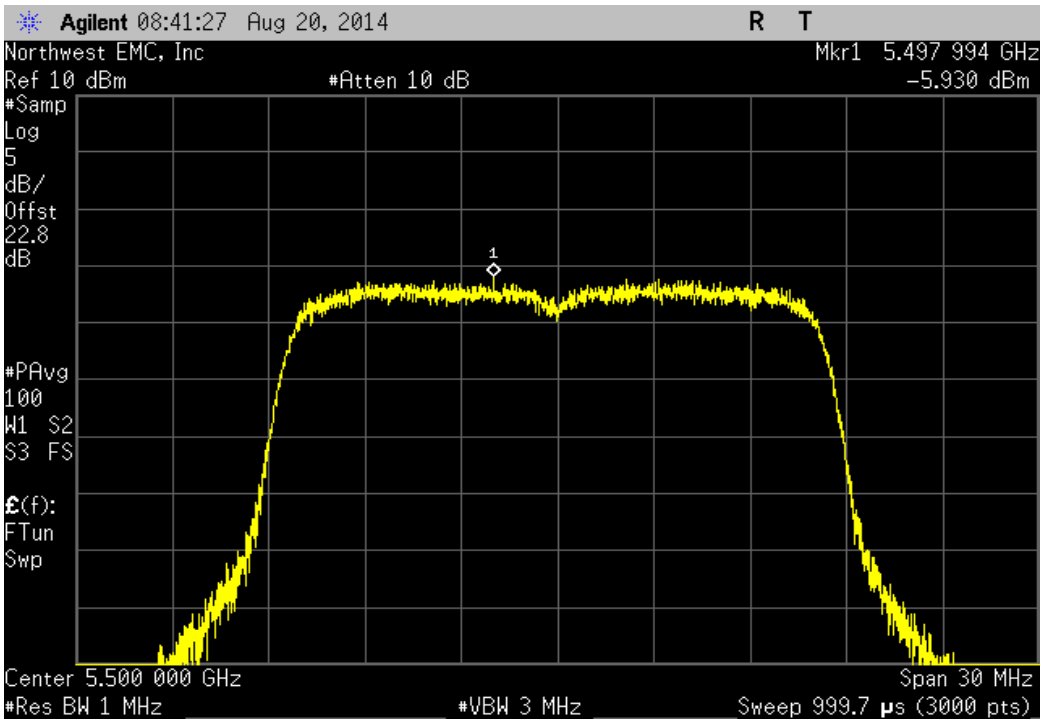
Port 1, 802.11(a) 54 Mbps, Ch 52, Low Channel 5260 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				0.669	11	Pass



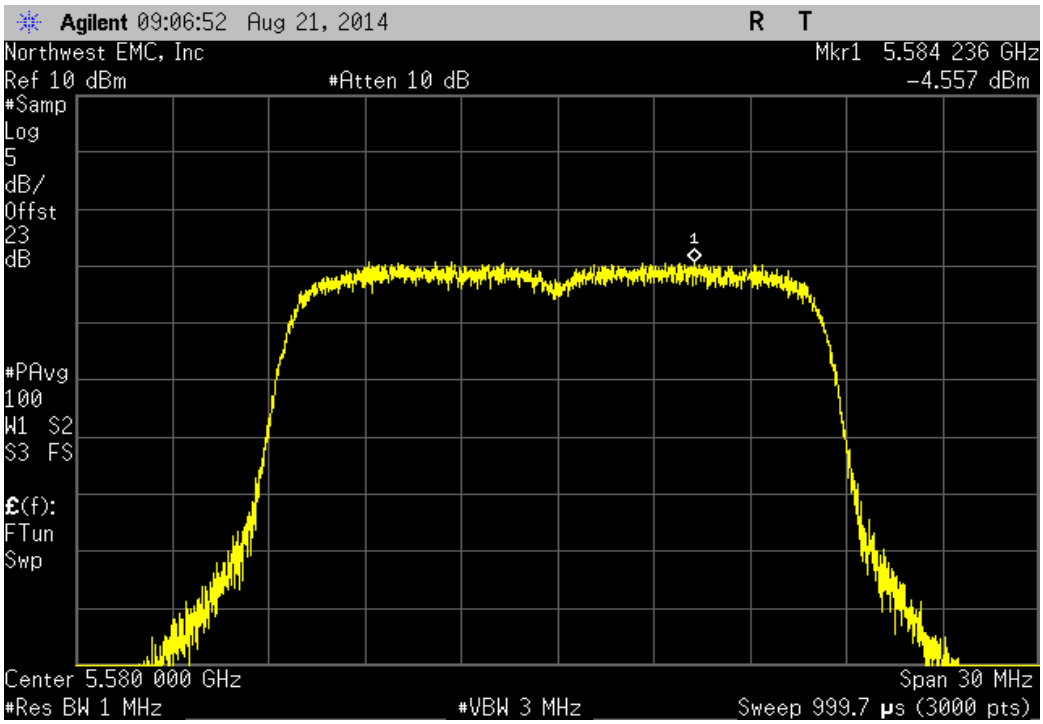
Port 1, 802.11(a) 54 Mbps, Ch 64, High Channel 5320 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				0.275	11	Pass



Port 1, 802.11(a) 54 Mbps, Ch 100, Low Channel 5500 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-5.93	11	Pass

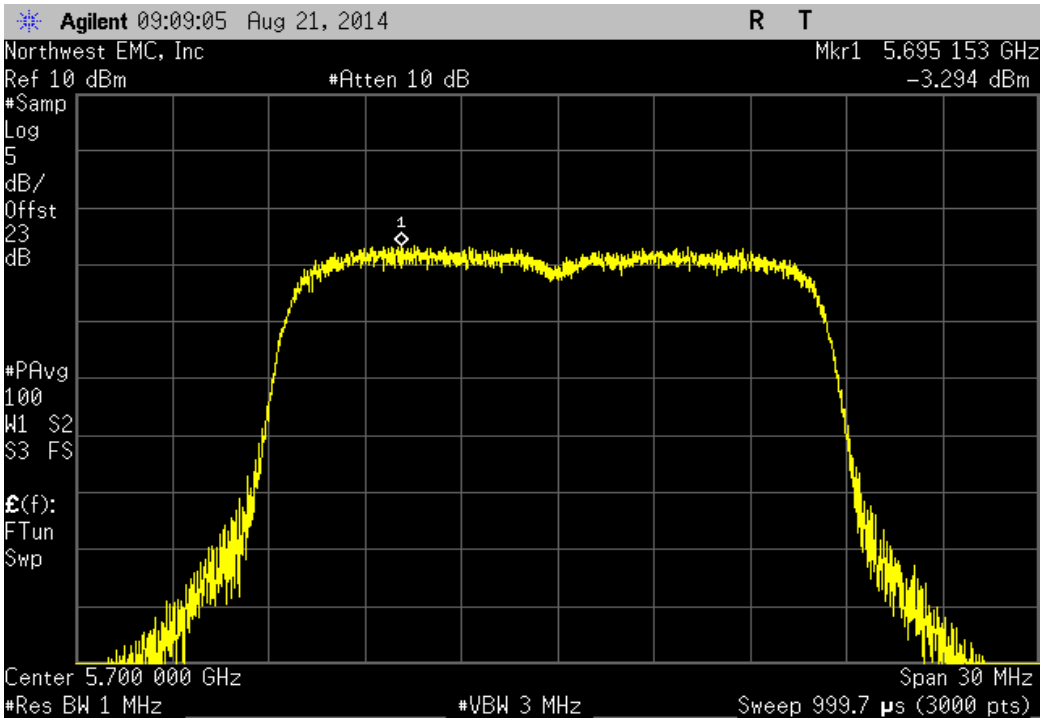


Port 1, 802.11(a) 54 Mbps, Ch 116, Mid Channel 5580 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-4.557	11	Pass

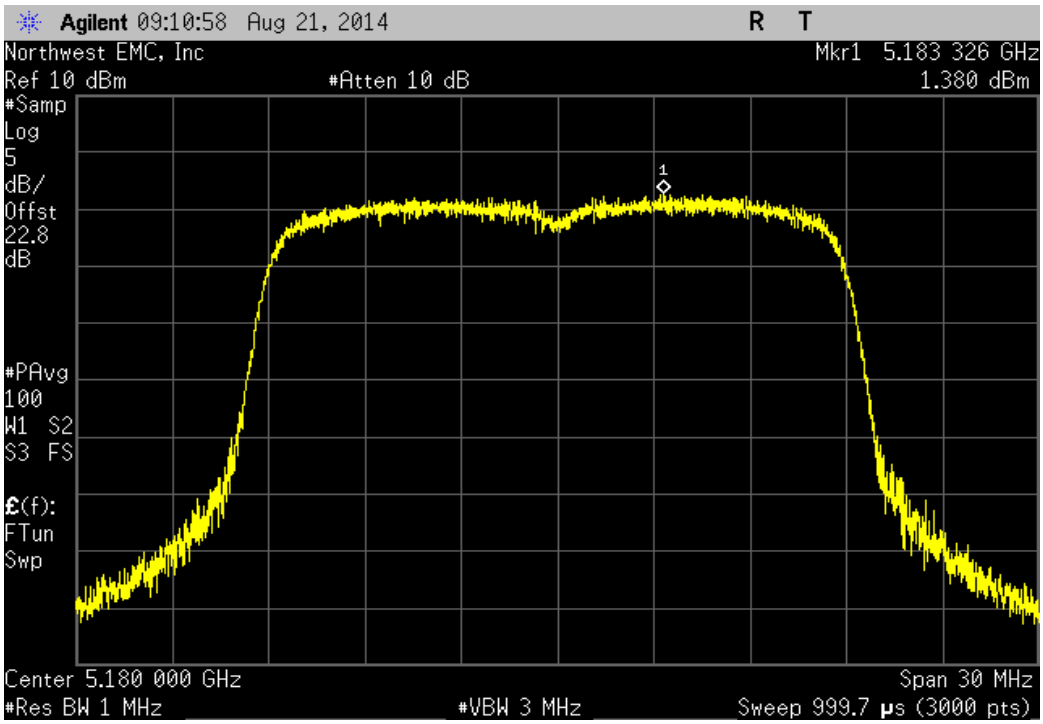


PEAK POWER SPECTRAL DENSITY

Port 1, 802.11(a) 54 Mbps, Ch 140, High Channel 5700 MHz							
					Value (dBm / MHz)	Limit (dBm / MHz)	Results
					-3.294	11	Pass

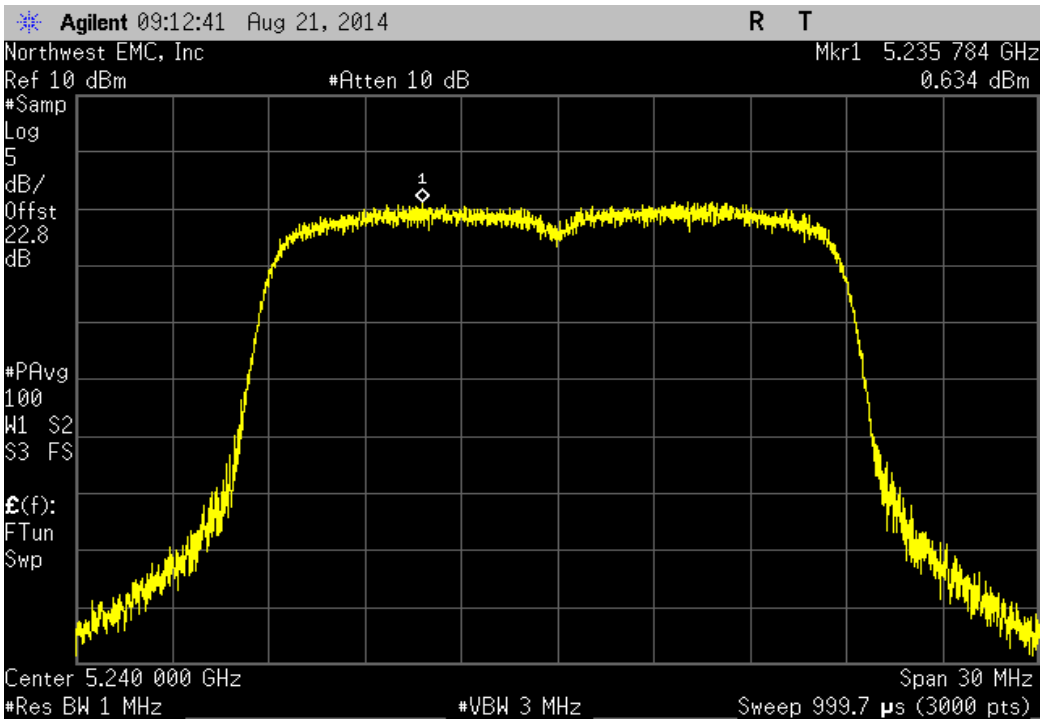


Port 1, 802.11(n) MCS0, Ch 36, Low Channel 5180 MHz							
					Value (dBm / MHz)	Limit (dBm / MHz)	Results
					1.38	4	Pass

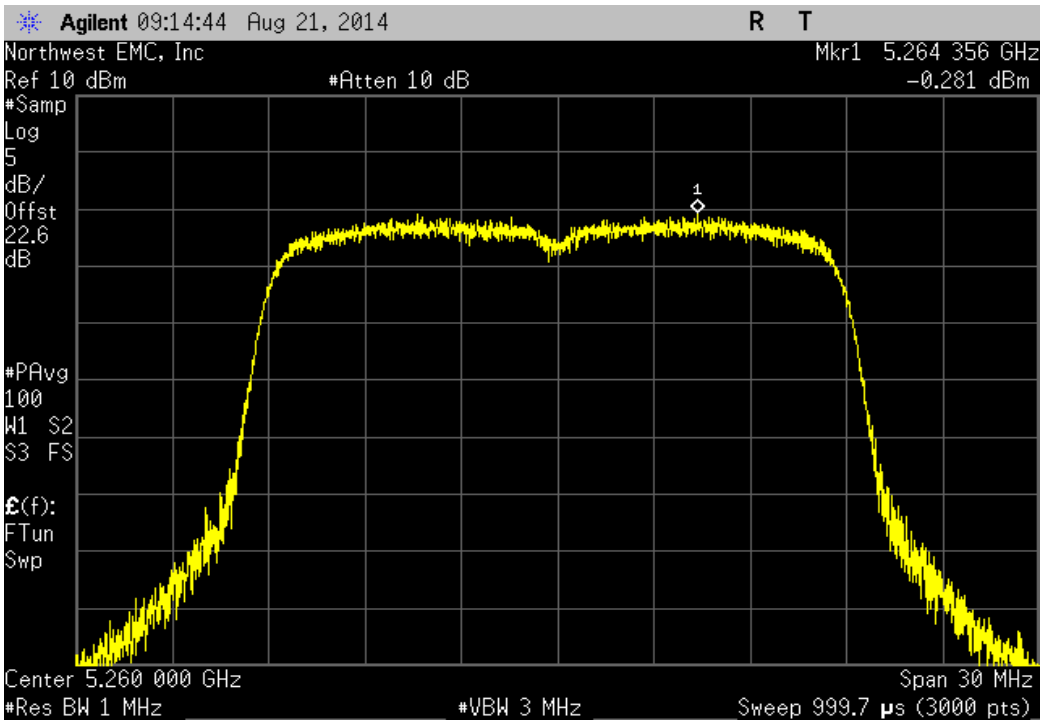


PEAK POWER SPECTRAL DENSITY

Port 1, 802.11(n) MCS0, Ch 48, High Channel 5240 MHz							
					Value (dBm / MHz)	Limit (dBm / MHz)	Results
					0.634	4	Pass



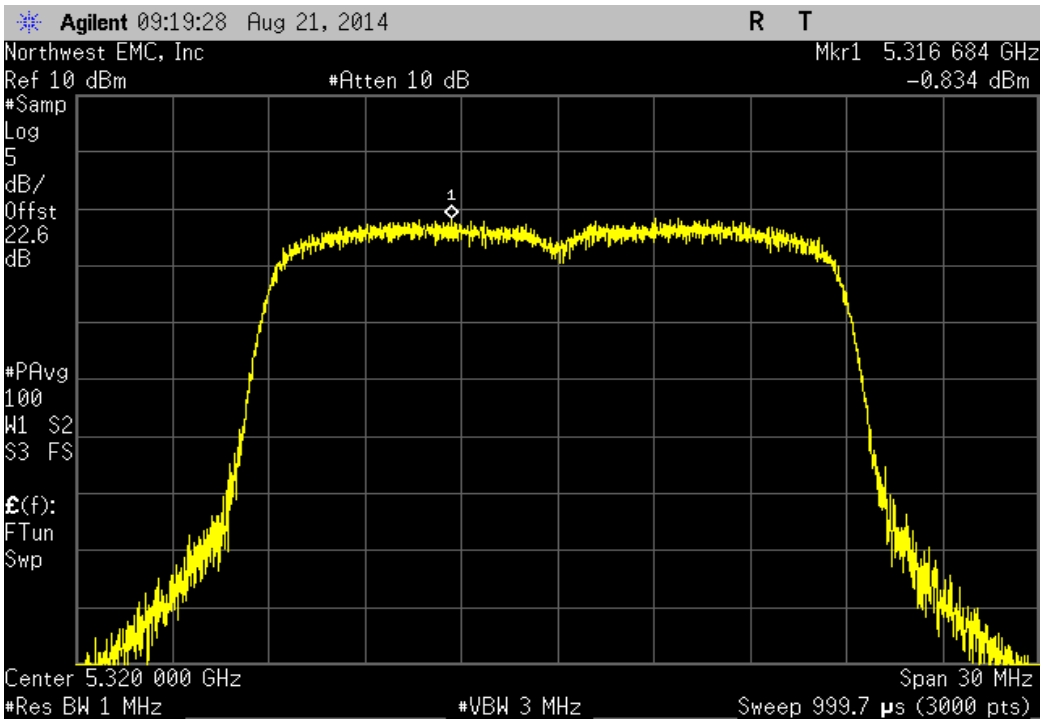
Port 1, 802.11(n) MCS0, Ch 52, Low Channel 5260 MHz							
					Value (dBm / MHz)	Limit (dBm / MHz)	Results
					-0.281	11	Pass



PEAK POWER SPECTRAL DENSITY

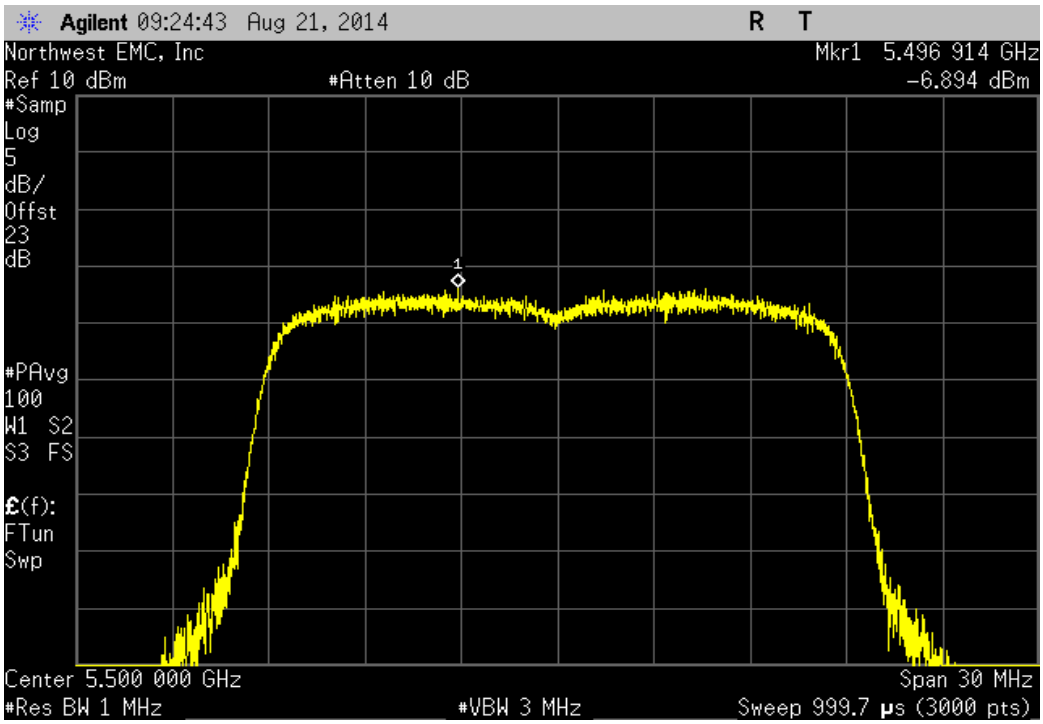
Port 1, 802.11(n) MCS0, Ch 64, High Channel 5320 MHz

				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-0.834	11	Pass



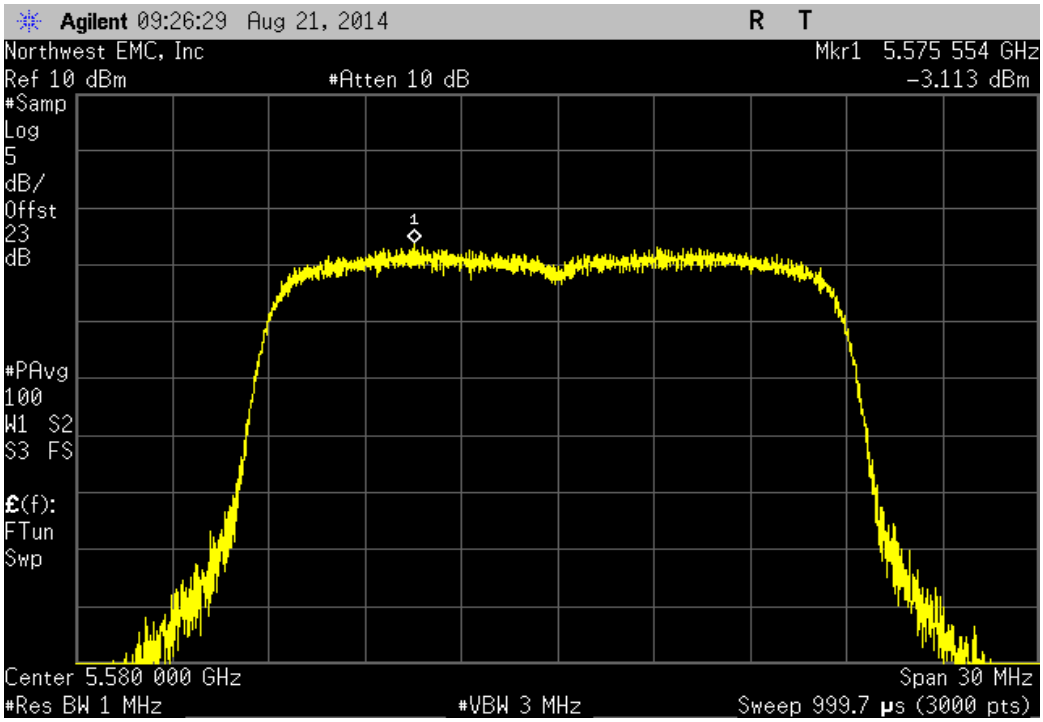
Port 1, 802.11(n) MCS0, Ch 100, Low Channel 5500 MHz

				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-6.894	11	Pass

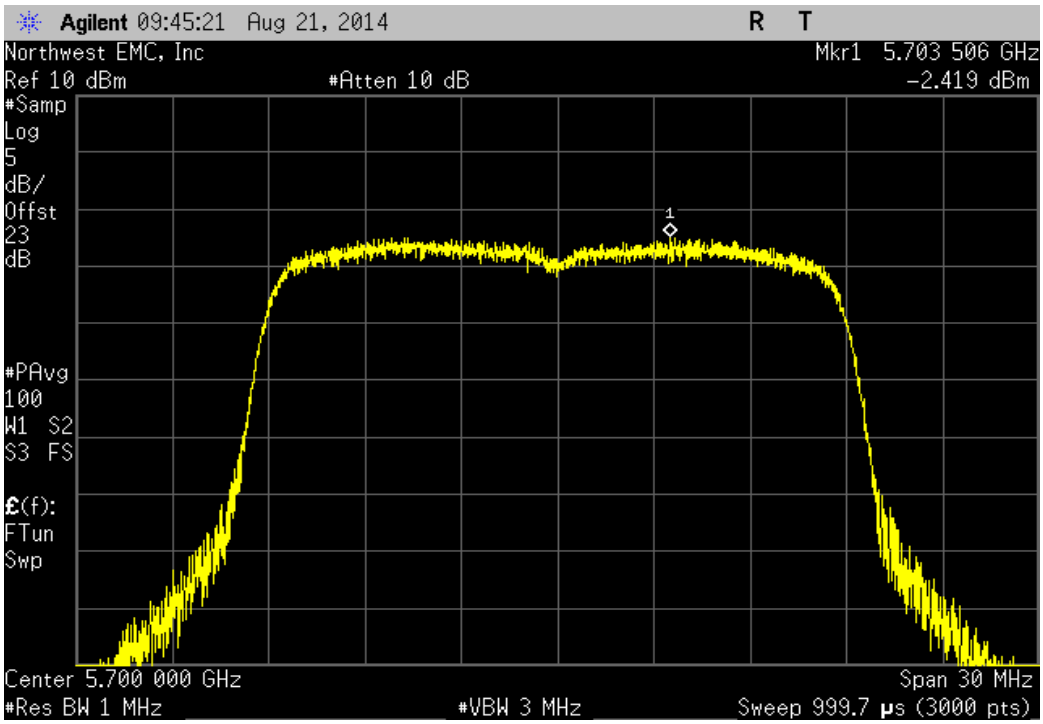


PEAK POWER SPECTRAL DENSITY

Port 1, 802.11(n) MCS0, Ch 116, Mid Channel 5580 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-3.113	11	Pass

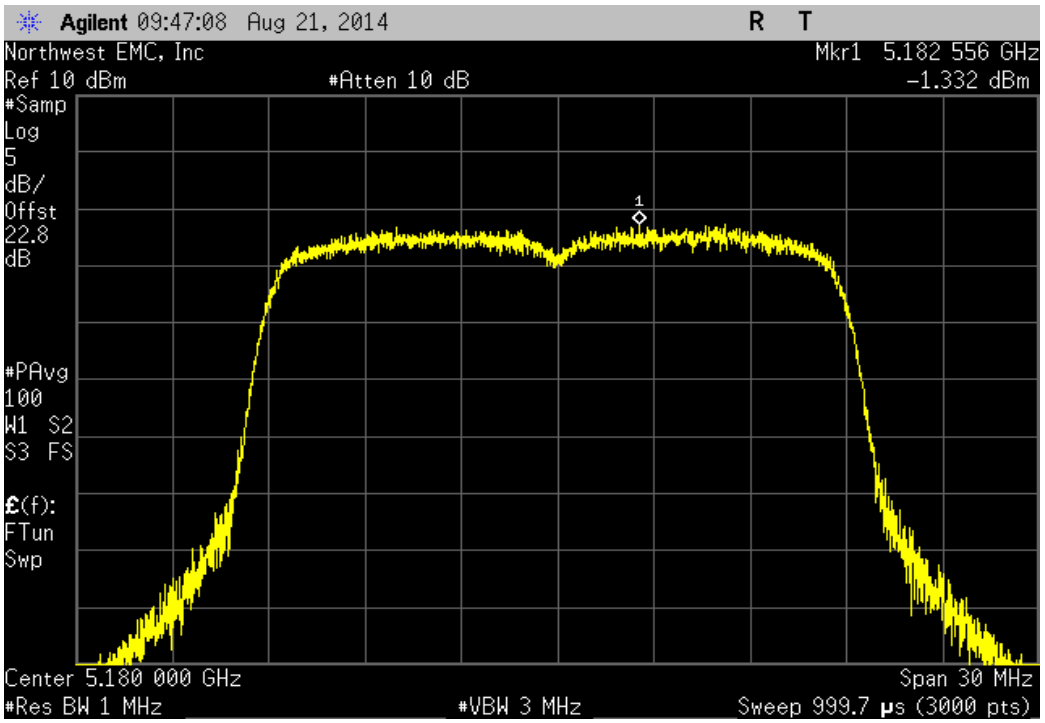


Port 1, 802.11(n) MCS0, Ch 140, High Channel 5700 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-2.419	11	Pass

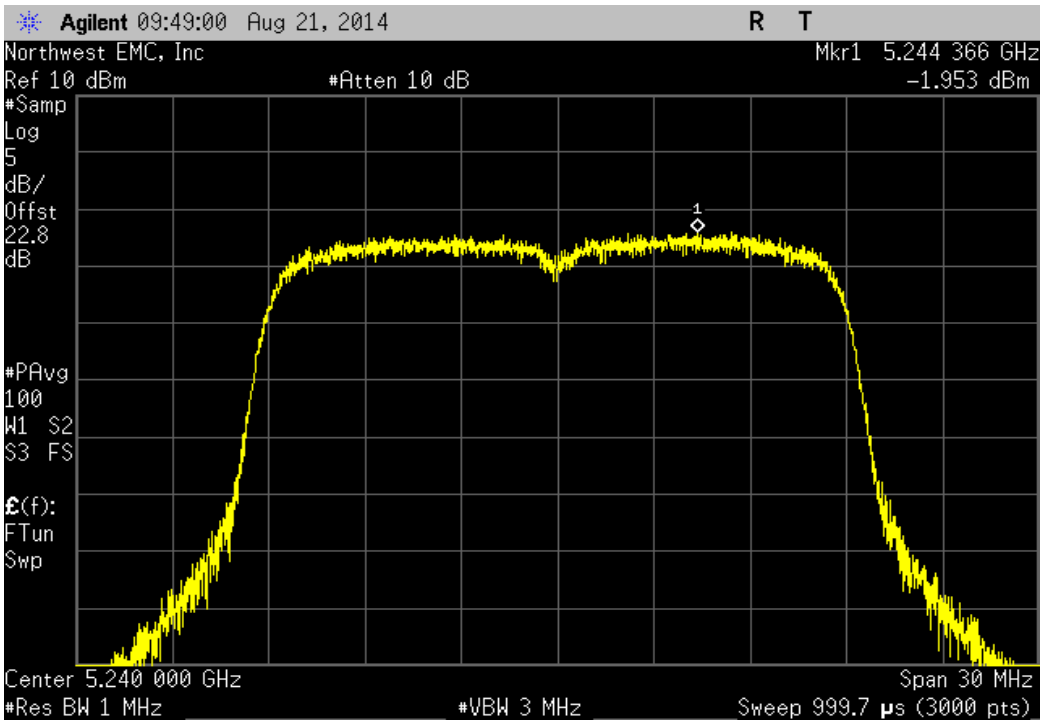


PEAK POWER SPECTRAL DENSITY

Port 1, 802.11(n) MCS7, Ch 36, Low Channel 5180 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-1.332	4	Pass

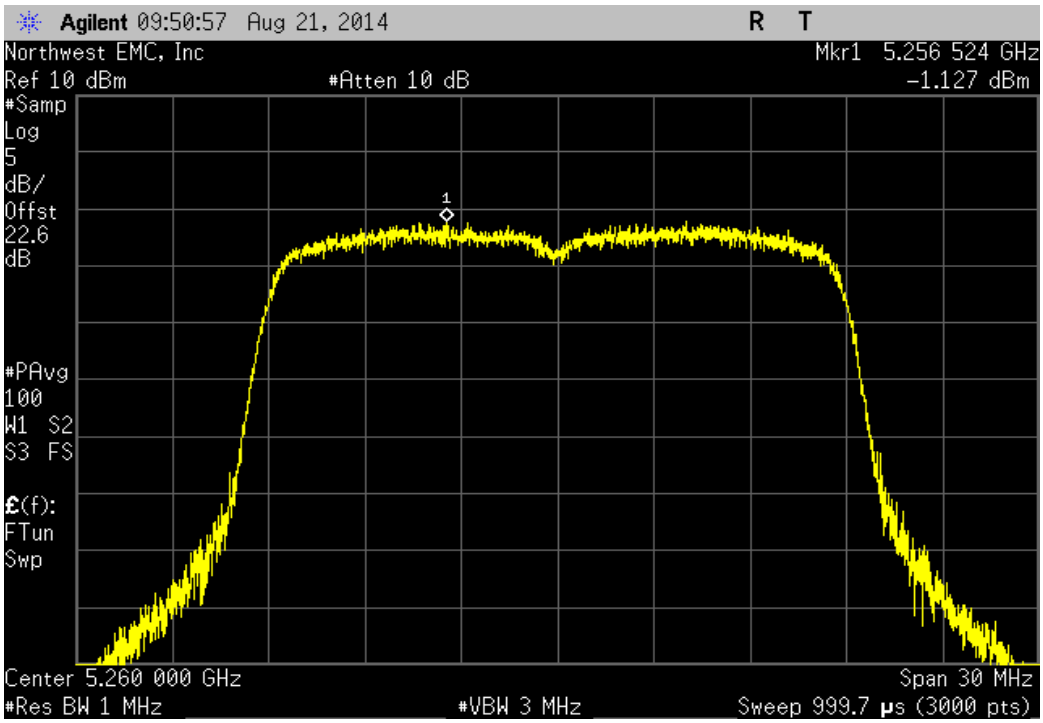


Port 1, 802.11(n) MCS7, Ch 48, High Channel 5240 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-1.953	4	Pass

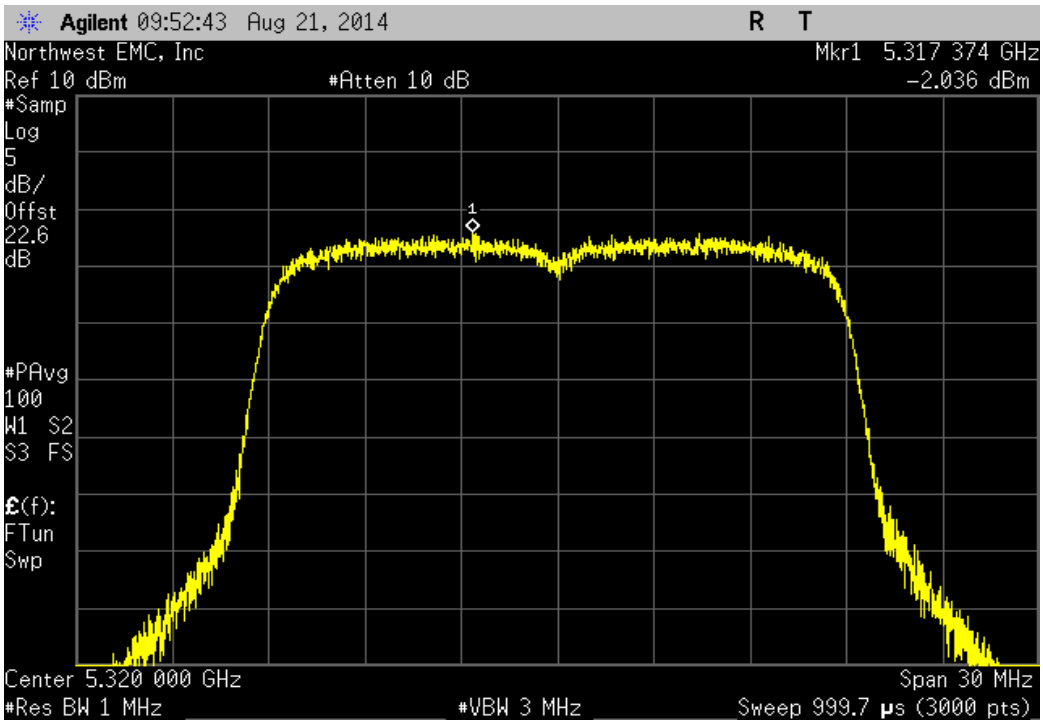


PEAK POWER SPECTRAL DENSITY

Port 1, 802.11(n) MCS7, Ch 52, Low Channel 5260 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-1.127	11	Pass

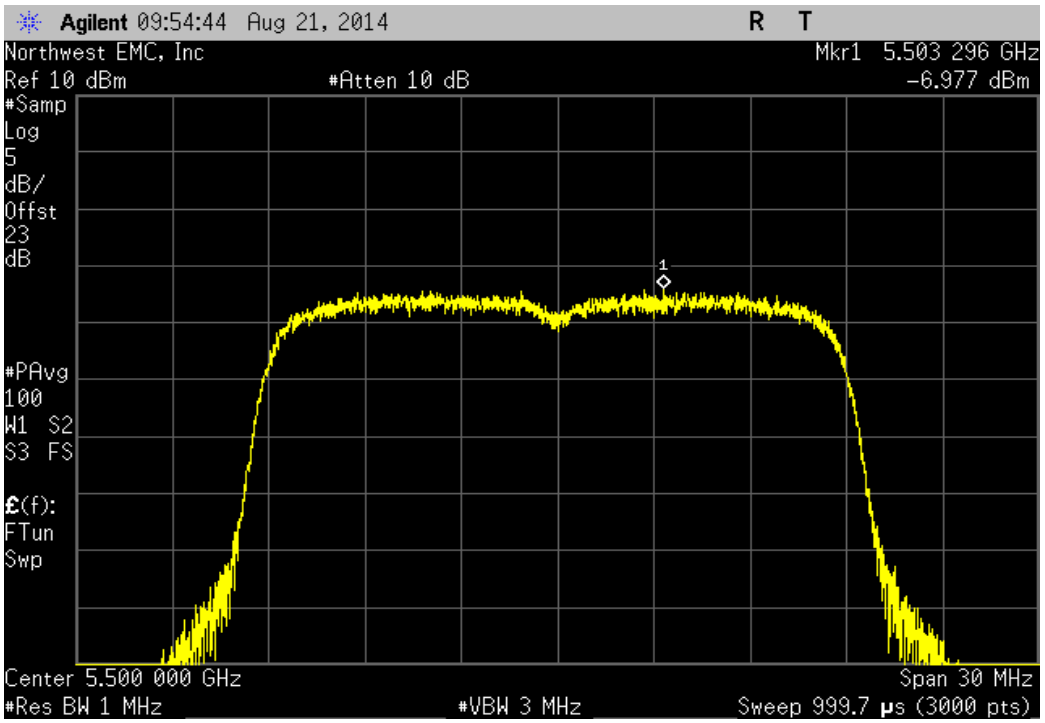


Port 1, 802.11(n) MCS7, Ch 64, High Channel 5320 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-2.036	11	Pass

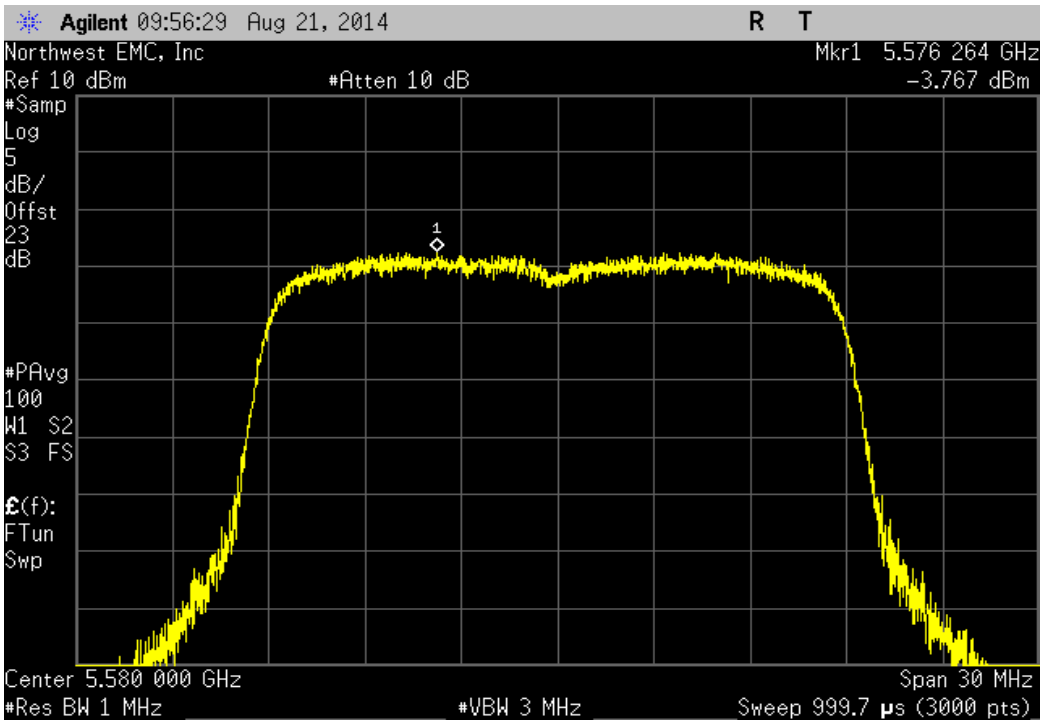


PEAK POWER SPECTRAL DENSITY

Port 1, 802.11(n) MCS7, Ch 100, Low Channel 5500 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-6.977	11	Pass

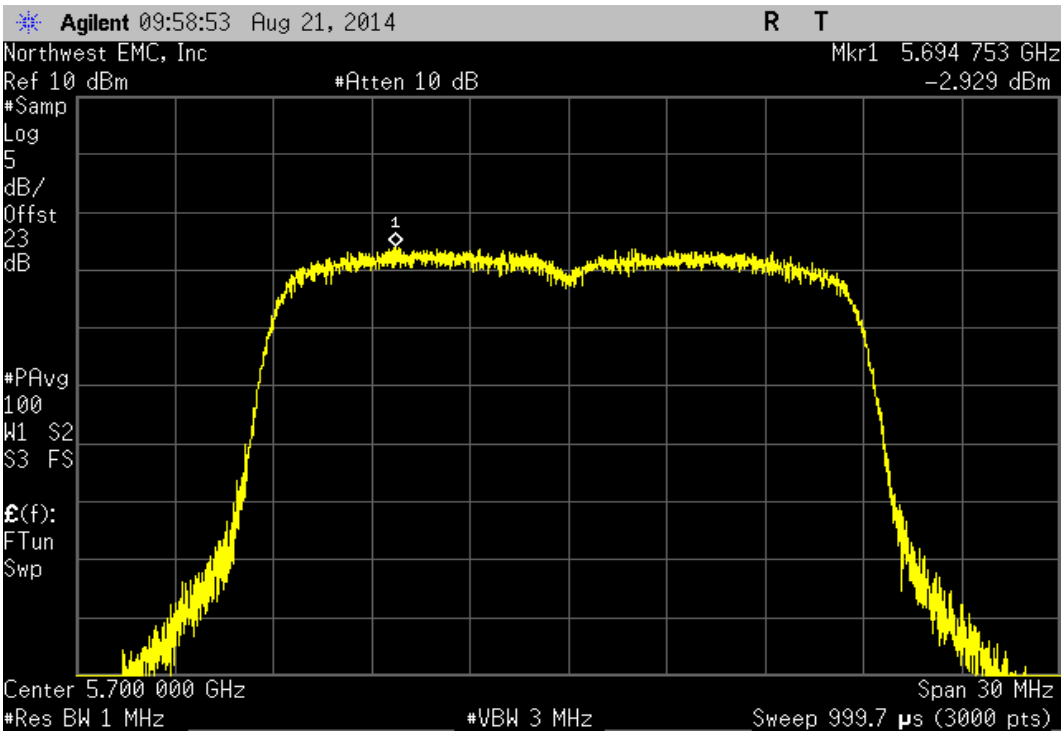


Port 1, 802.11(n) MCS7, Ch 116, Mid Channel 5580 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-3.767	11	Pass



PEAK POWER SPECTRAL DENSITY

Port 1, 802.11(n) MCS7, Ch 140, High Channel 5700 MHz						
				Value (dBm / MHz)	Limit (dBm / MHz)	Results
				-2.929	11	Pass



DUTY CYCLE

TEST DESCRIPTION

The Duty Cycle (x) were measured for each of the EUT operating modes. The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used

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

The EUT operates at 100% Duty Cycle.