

DUTY CYCLE

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)
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFE	6/22/2015	12
Cable	ESM Cable Corp.	TTBJ-141 KMKM-72	NC5	6/6/2015	12
Attenuator	Fairview Microwave	SA4014-20	TKE	1/16/2015	12
Block - DC	Fairview Microwave	SD3379	AMJ	6/6/2015	12
Generator - Signal	Agilent	N5183A	TIA	4/7/2014	24

TEST DESCRIPTION

Per ANSI C63.10, all measurements are to be performed with the EUT operating at 100% duty cycle at its maximum power level. In the event the EUT cannot be operated at 100% duty cycle, the transmission pulse duration (T) and Duty Cycle (x) are required to be 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.

If the transmit duty cycle < 98 percent, a duty cycle correction factor in dB can be calculated to add to power measurements if required in the test method guidance using the following formula

$$10 * \text{LOG} (1/D) = \text{dB}$$

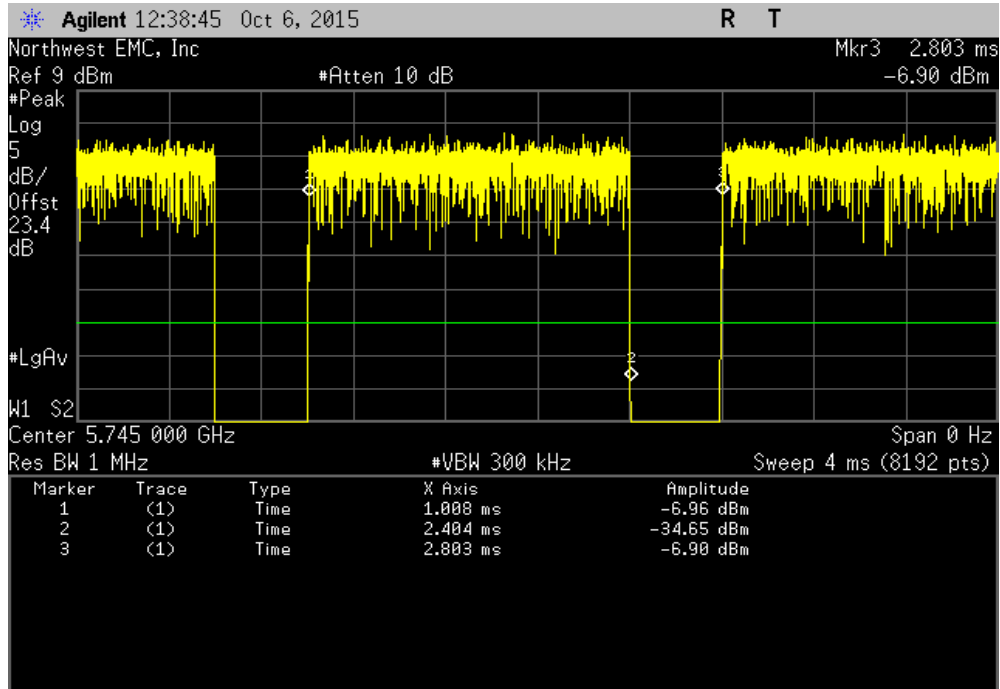
Where D is duty cycle of the radio transmissions

DUTY CYCLE

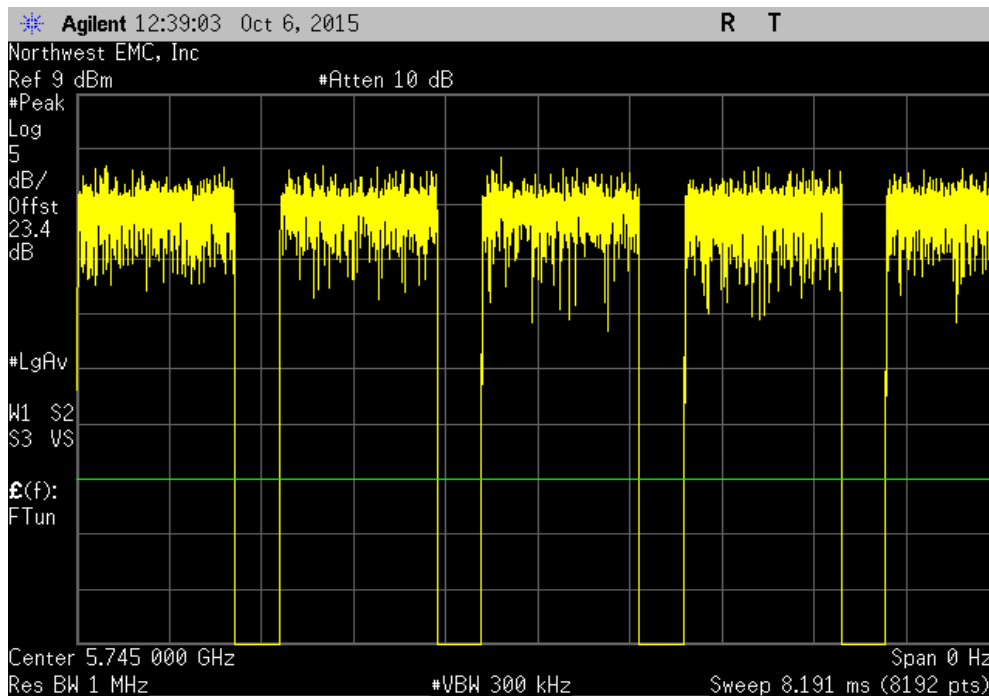
EUT: Precor Wi-Fi / Bluetooth Module Model 303346				Work Order: PRCR0230				
Serial Number: None				Date: 10/06/15				
Customer: Precor, Inc.				Temperature: 23°C				
Attendees: Rich Whitbeck				Humidity: 46%				
Project: None				Barometric Pres.: 1015mb				
Tested by: Richard Mellroth		Power: 110VAC/60Hz		Job Site: NC02				
TEST SPECIFICATIONS				Test Method				
FCC 15.407:2015				ANSI C63.10:2013				
COMMENTS								
Power settings at Maximum.								
DEVIATIONS FROM TEST STANDARD								
None								
Configuration #	1							
			Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
Ant 1								
802.11(a) 6 Mbps								
5725 - 5825 MHz Band								
		Low Channel 149, 5745 MHz	1.395 ms	1.794 ms	1	77.8	N/A	N/A
		Low Channel 149, 5745 MHz	N/A	N/A	5	N/A	N/A	N/A
		Mid Channel 157, 5785 MHz	1.395 ms	1.804 ms	1	77.3	N/A	N/A
		Mid Channel 157, 5785 MHz	N/A	N/A	5	N/A	N/A	N/A
		High Channel 165, 5825 MHz	1.395 ms	1.804 ms	1	77.3	N/A	N/A
		High Channel 165, 5825 MHz	N/A	N/A	5	N/A	N/A	N/A
802.11(a) 36 Mbps								
5725 - 5825 MHz Band								
		Low Channel 149, 5745 MHz	246.9 us	655.1 us	1	37.7	N/A	N/A
		Low Channel 149, 5745 MHz	N/A	N/A	5	N/A	N/A	N/A
		Mid Channel 157, 5785 MHz	246.9 us	646.3 us	1	38.2	N/A	N/A
		Mid Channel 157, 5785 MHz	N/A	N/A	5	N/A	N/A	N/A
		High Channel 165, 5825 MHz	246.9 us	646.3 us	1	38.2	N/A	N/A
		High Channel 165, 5825 MHz	N/A	N/A	5	N/A	N/A	N/A
802.11(a) 54 Mbps								
5725 - 5825 MHz Band								
		Low Channel 149, 5745 MHz	170.9 us	579.1 us	1	29.5	N/A	N/A
		Low Channel 149, 5745 MHz	N/A	N/A	6	N/A	N/A	N/A
		Mid Channel 157, 5785 MHz	171 us	570.4 us	1	30	N/A	N/A
		Mid Channel 157, 5785 MHz	N/A	N/A	5	N/A	N/A	N/A
		High Channel 165, 5825 MHz	171 us	570.4 us	1	30	N/A	N/A
		High Channel 165, 5825 MHz	N/A	N/A	5	N/A	N/A	N/A
802.11(n) MCS0								
5725 - 5825 MHz Band								
		Low Channel 149, 5745 MHz	1.303 ms	1.702 ms	1	76.5	N/A	N/A
		Low Channel 149, 5745 MHz	N/A	N/A	5	N/A	N/A	N/A
		Mid Channel 157, 5785 MHz	1.303 ms	1.711 ms	1	76.1	N/A	N/A
		Mid Channel 157, 5785 MHz	N/A	N/A	5	N/A	N/A	N/A
		High Channel 165, 5825 MHz	1.303 ms	1.702 ms	1	76.5	N/A	N/A
		High Channel 165, 5825 MHz	N/A	N/A	5	N/A	N/A	N/A
802.11(n) MCS7								
5725 - 5825 MHz Band								
		Low Channel 149, 5745 MHz	158.7 us	567.2 us	1	28	N/A	N/A
		Low Channel 149, 5745 MHz	N/A	N/A	5	N/A	N/A	N/A
		Mid Channel 157, 5785 MHz	158.7 us	558.1 us	1	28.4	N/A	N/A
		Mid Channel 157, 5785 MHz	N/A	N/A	5	N/A	N/A	N/A
		High Channel 165, 5825 MHz	158.7 us	567.2 us	1	28	N/A	N/A
		High Channel 165, 5825 MHz	N/A	N/A	5	N/A	N/A	N/A
Ant 2								
802.11(a) 6 Mbps								
5725 - 5825 MHz Band								
		Low Channel 149, 5745 MHz	1.395 ms	1.804 ms	1	77.4	N/A	N/A
		Low Channel 149, 5745 MHz	N/A	N/A	5	N/A	N/A	N/A
		Mid Channel 157, 5785 MHz	1.395 ms	1.803 ms	1	77.4	N/A	N/A
		Mid Channel 157, 5785 MHz	N/A	N/A	5	N/A	N/A	N/A
		High Channel 165, 5825 MHz	1.395 ms	1.794 ms	1	77.7	N/A	N/A
		High Channel 165, 5825 MHz	N/A	N/A	5	N/A	N/A	N/A
802.11(a) 36 Mbps								
5725 - 5825 MHz Band								
		Low Channel 149, 5745 MHz	246.6 us	655.1 us	1	37.6	N/A	N/A
		Low Channel 149, 5745 MHz	N/A	N/A	5	N/A	N/A	N/A
		Mid Channel 157, 5785 MHz	246.8 us	655.3 us	1	37.7	N/A	N/A
		Mid Channel 157, 5785 MHz	N/A	N/A	5	N/A	N/A	N/A
		High Channel 165, 5825 MHz	246.7 us	646.1 us	1	38.2	N/A	N/A
		High Channel 165, 5825 MHz	N/A	N/A	5	N/A	N/A	N/A
802.11(a) 54 Mbps								
5725 - 5825 MHz Band								
		Low Channel 149, 5745 MHz	170.9 us	570.1 us	1	30	N/A	N/A
		Low Channel 149, 5745 MHz	N/A	N/A	5	N/A	N/A	N/A
		Mid Channel 157, 5785 MHz	170.9 us	570.4 us	1	30	N/A	N/A
		Mid Channel 157, 5785 MHz	N/A	N/A	5	N/A	N/A	N/A
		High Channel 165, 5825 MHz	170.7 us	579.2 us	1	29.5	N/A	N/A
		High Channel 165, 5825 MHz	N/A	N/A	5	N/A	N/A	N/A
802.11(n) MCS0								
5725 - 5825 MHz Band								
		Low Channel 149, 5745 MHz	1.303 ms	1.711 ms	1	76.1	N/A	N/A
		Low Channel 149, 5745 MHz	N/A	N/A	5	N/A	N/A	N/A
		Mid Channel 157, 5785 MHz	1.303 ms	1.702 ms	1	76.5	N/A	N/A
		Mid Channel 157, 5785 MHz	N/A	N/A	5	N/A	N/A	N/A
		High Channel 165, 5825 MHz	1.303 ms	1.702 ms	1	76.5	N/A	N/A
		High Channel 165, 5825 MHz	N/A	N/A	5	N/A	N/A	N/A
802.11(n) MCS7								
5725 - 5825 MHz Band								
		Low Channel 149, 5745 MHz	158.9 us	558.2 us	1	28.5	N/A	N/A
		Low Channel 149, 5745 MHz	N/A	N/A	5	N/A	N/A	N/A
		Mid Channel 157, 5785 MHz	158.7 us	558.1 us	1	28.4	N/A	N/A
		Mid Channel 157, 5785 MHz	N/A	N/A	5	N/A	N/A	N/A
		High Channel 165, 5825 MHz	158.7 us	567.2 us	1	28	N/A	N/A
		High Channel 165, 5825 MHz	N/A	N/A	5	N/A	N/A	N/A

DUTY CYCLE

Ant 1, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	1.395 ms	1.794 ms	1	77.8	N/A	N/A

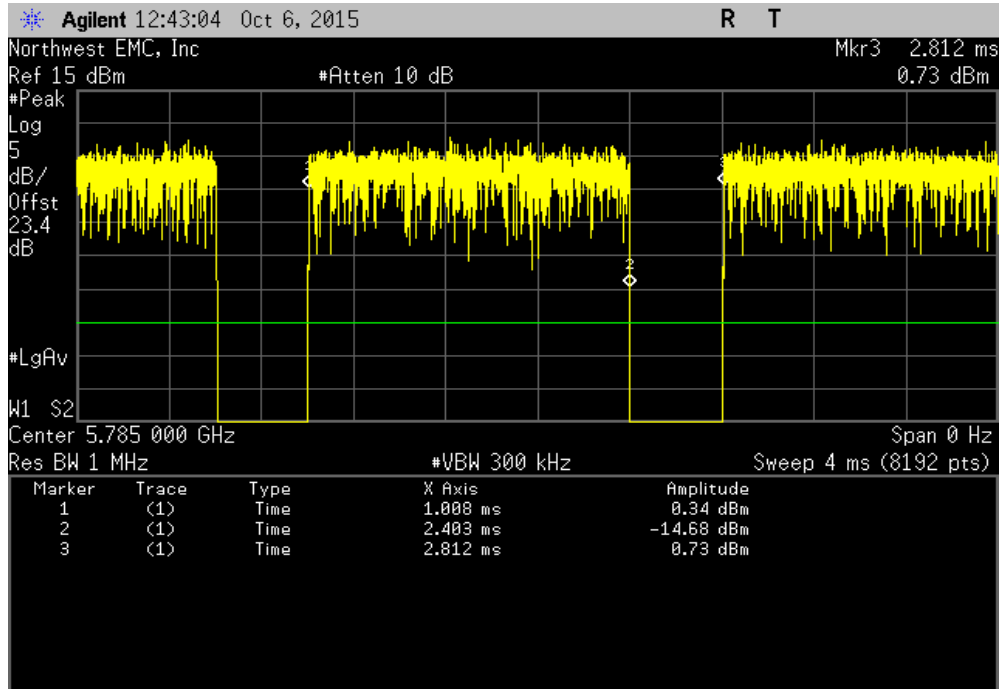


Ant 1, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

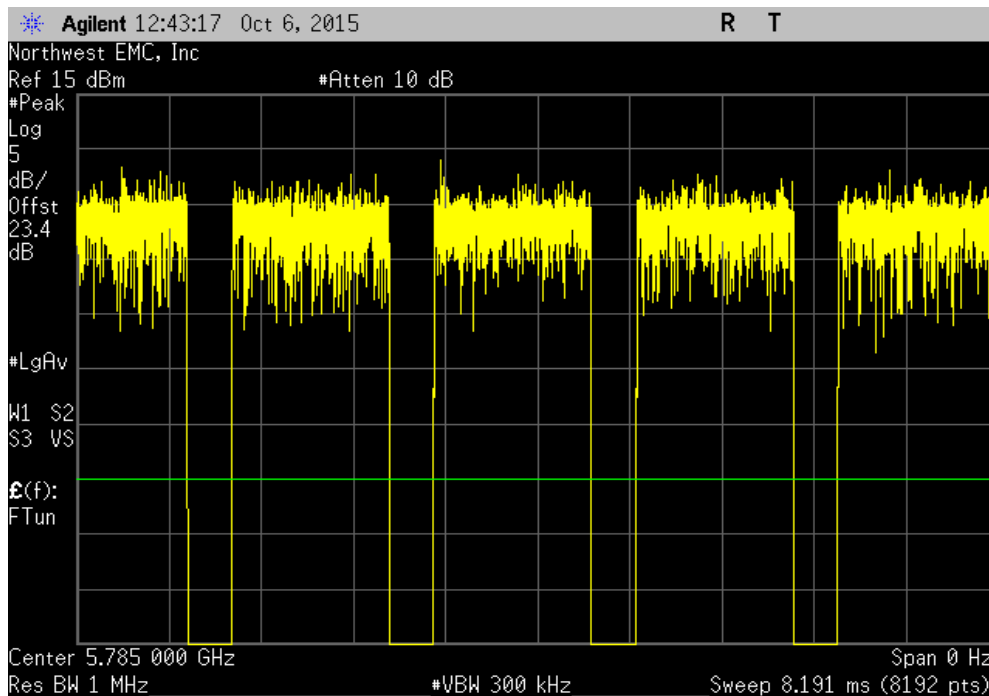


DUTY CYCLE

Ant 1, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	1.395 ms	1.804 ms	1	77.3	N/A	N/A

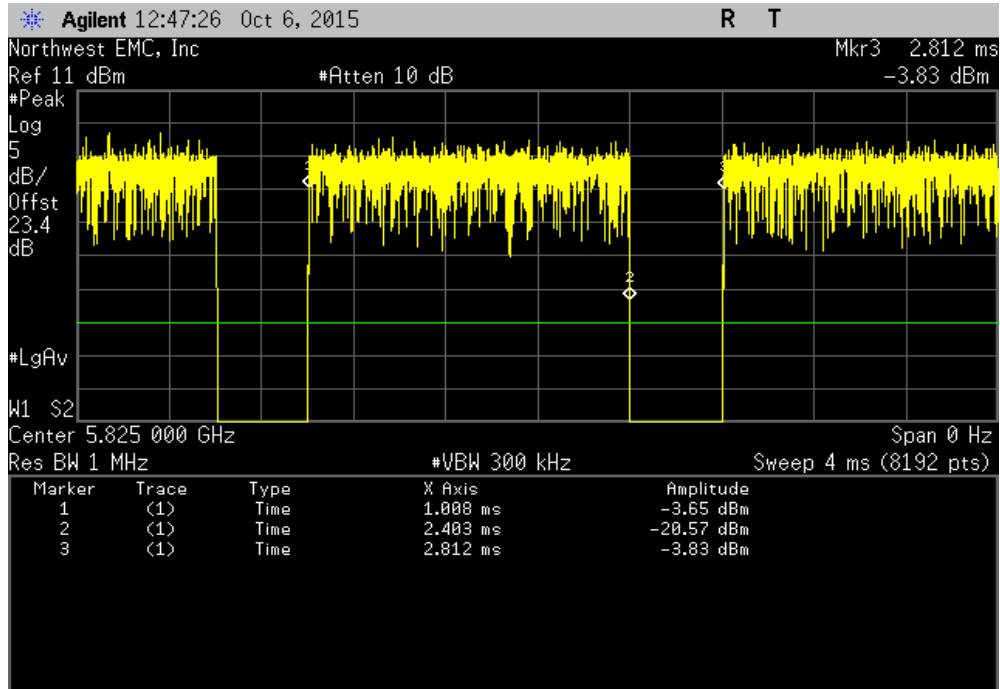


Ant 1, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

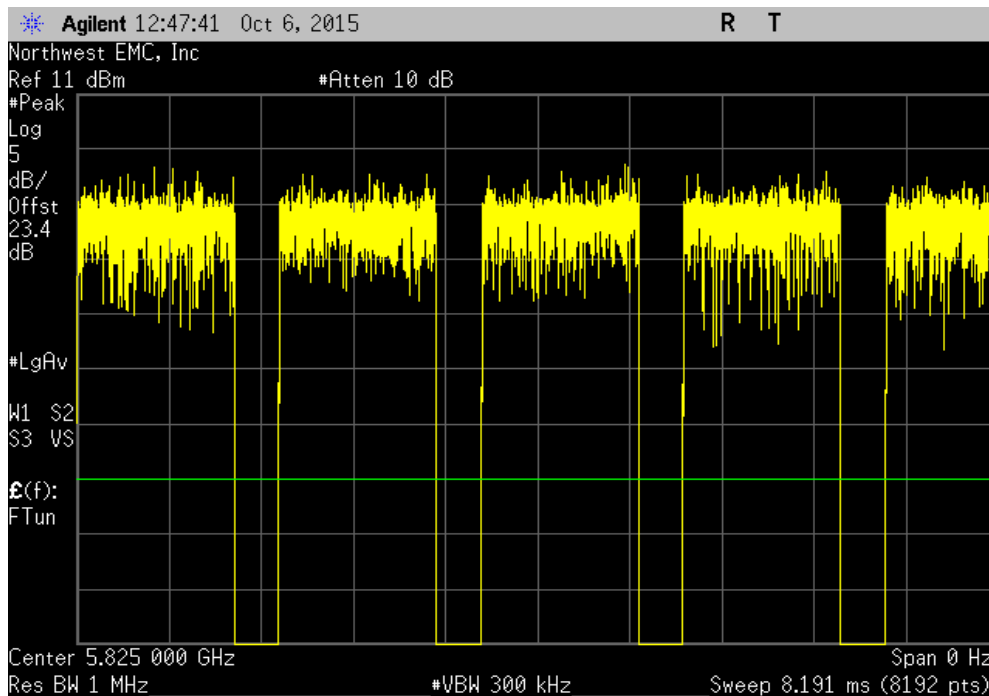


DUTY CYCLE

Ant 1, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	1.395 ms	1.804 ms	1	77.3	N/A	N/A

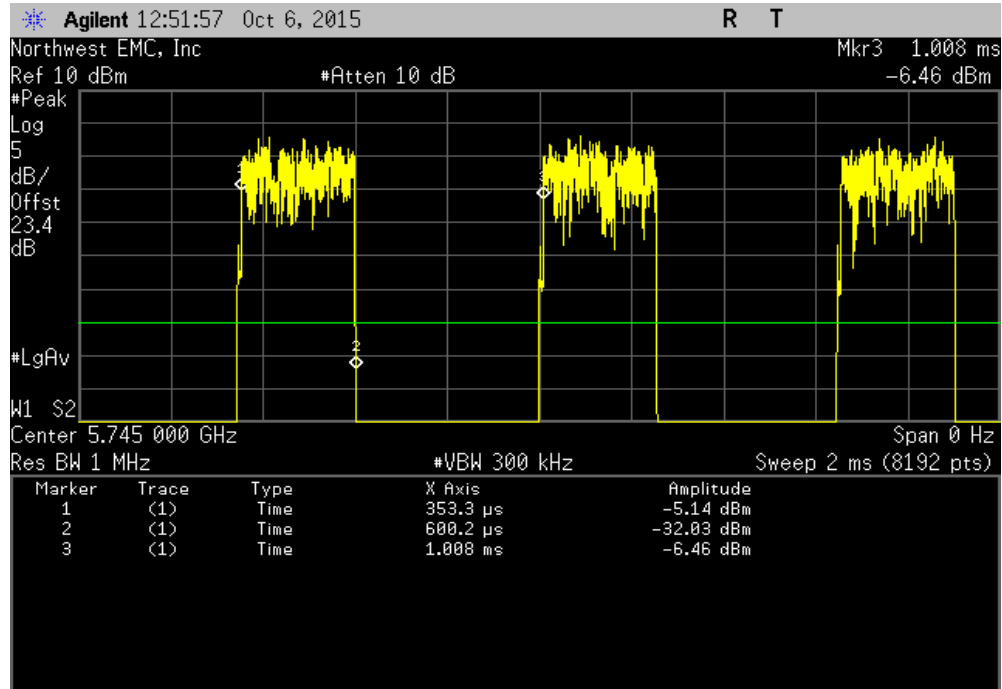


Ant 1, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

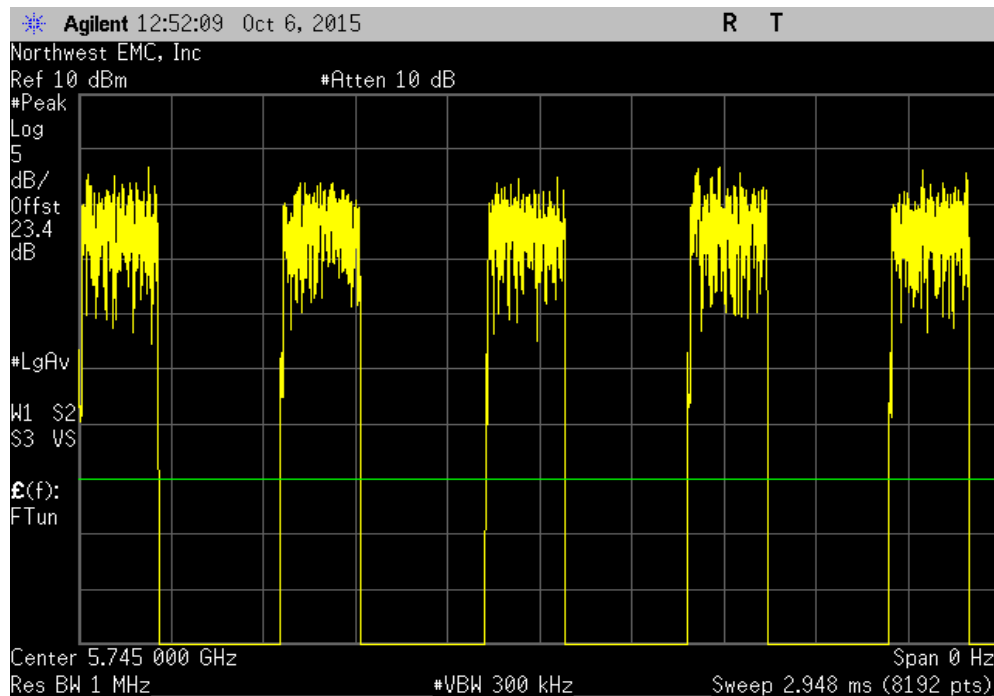


DUTY CYCLE

Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
246.9 us	655.1 us	1	37.7	N/A	N/A	

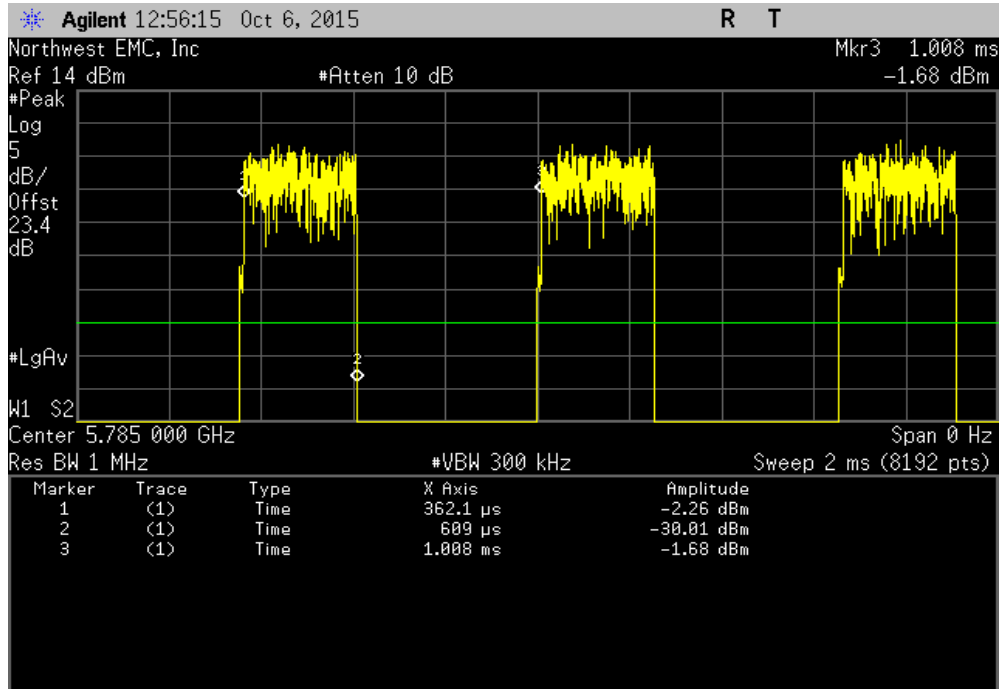


Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

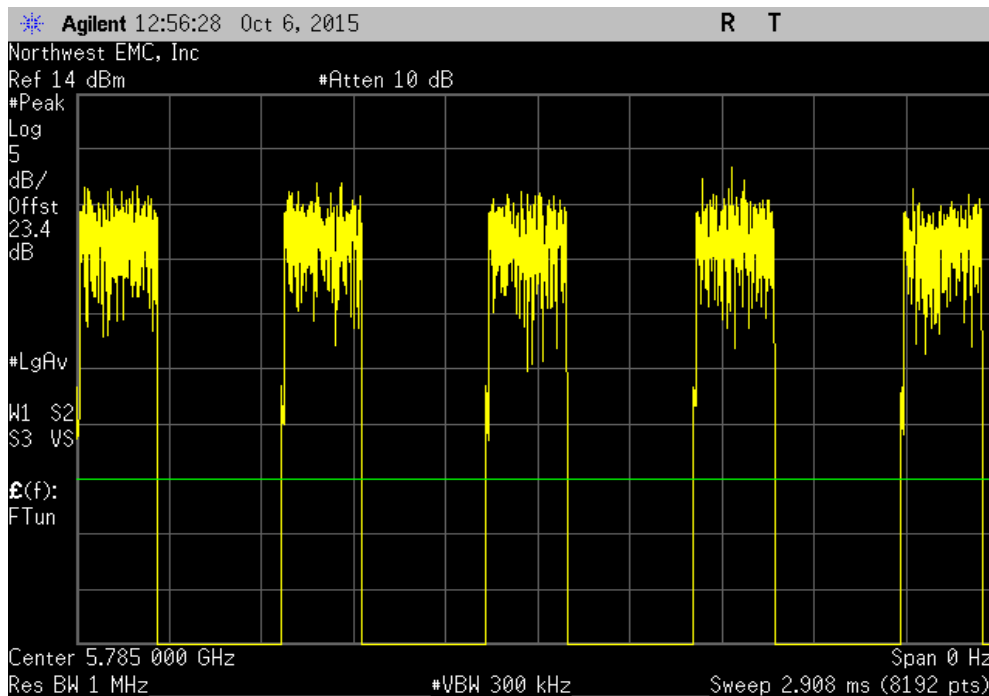


DUTY CYCLE

Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
246.9 us	646.3 us	1	38.2	N/A	N/A	

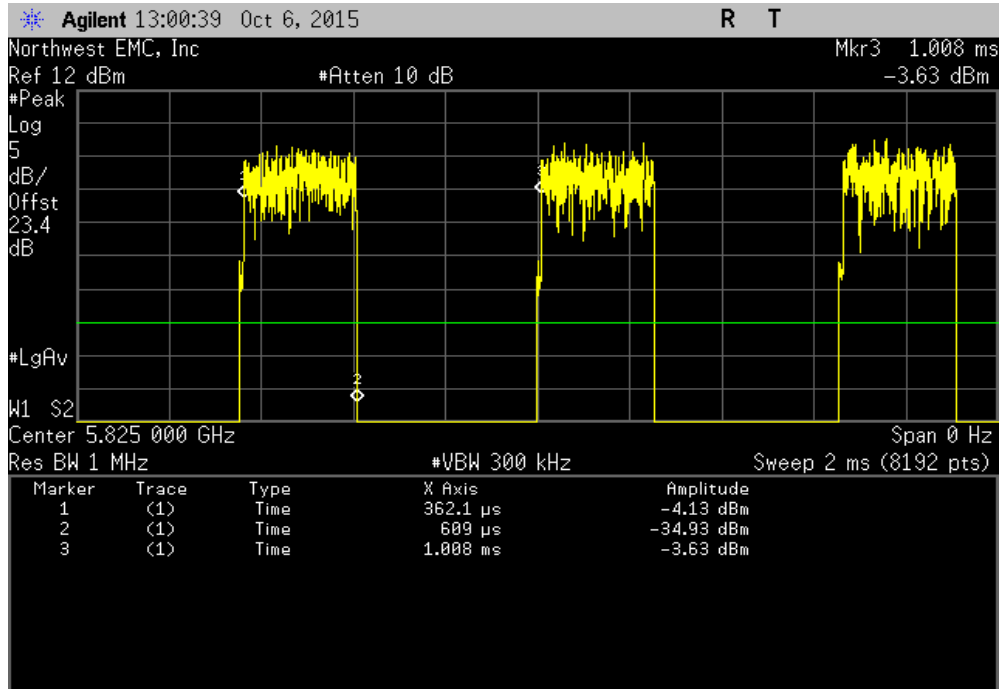


Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

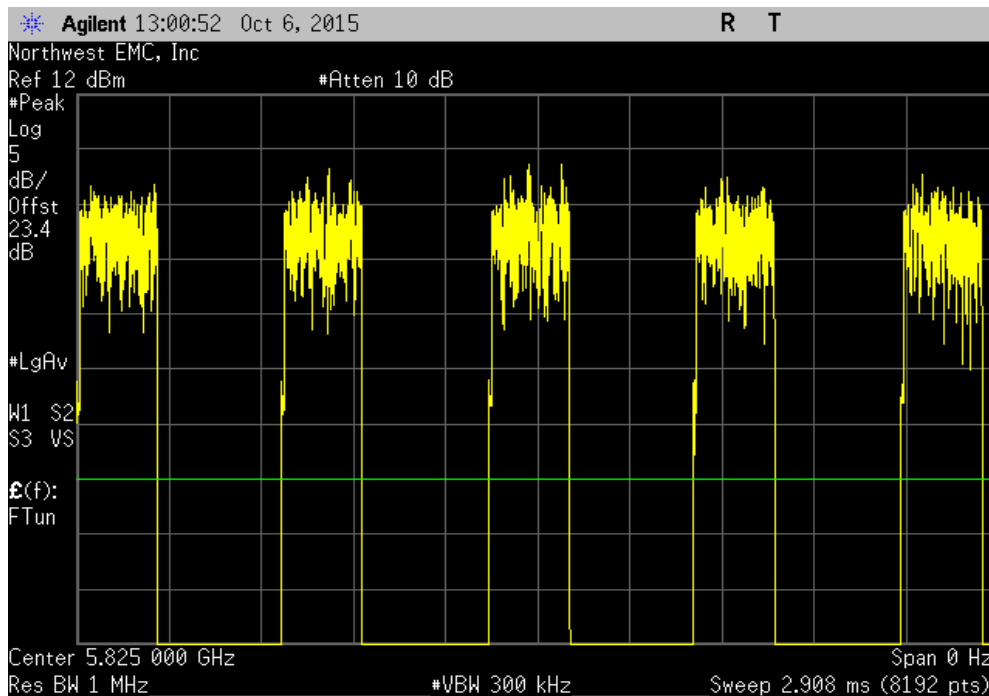


DUTY CYCLE

Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
246.9 us	646.3 us	1	38.2	N/A	N/A	

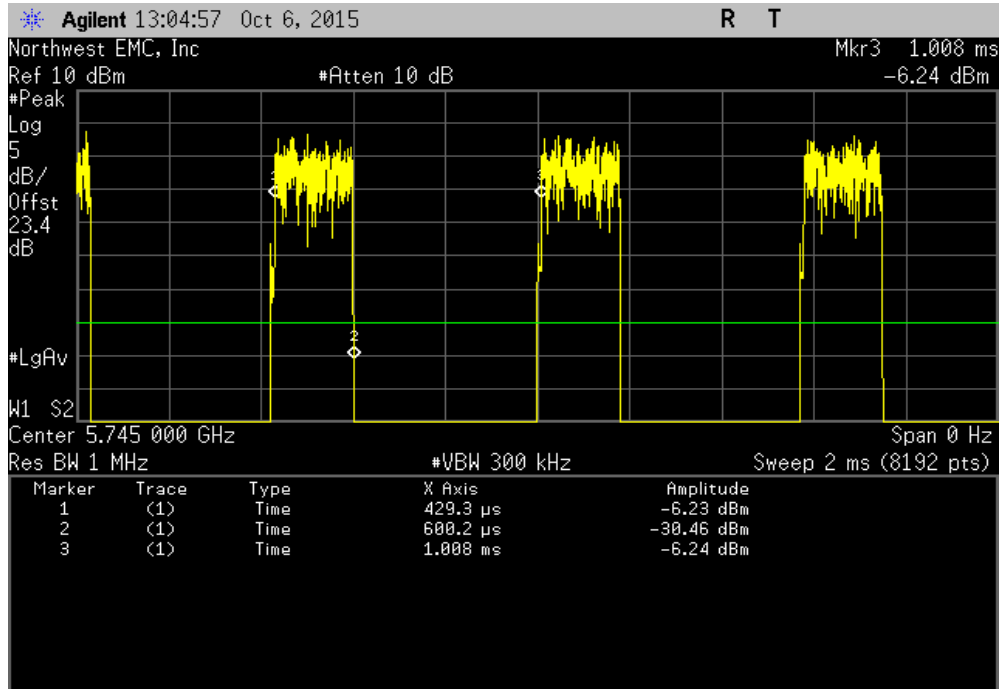


Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

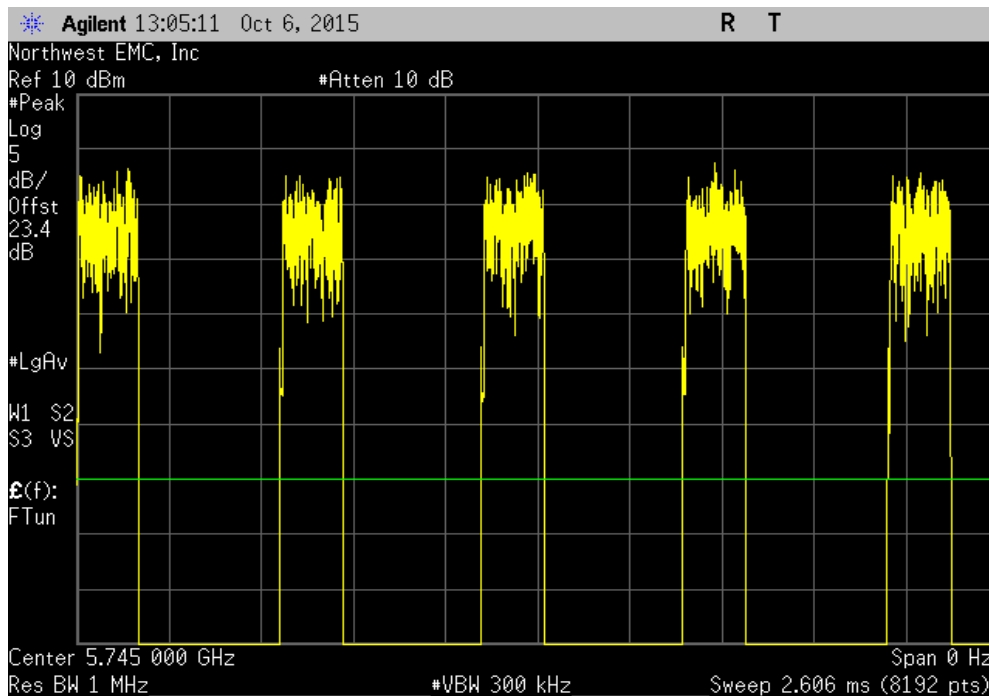


DUTY CYCLE

Ant 1, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
170.9 us	579.1 us	1	29.5	N/A	N/A	

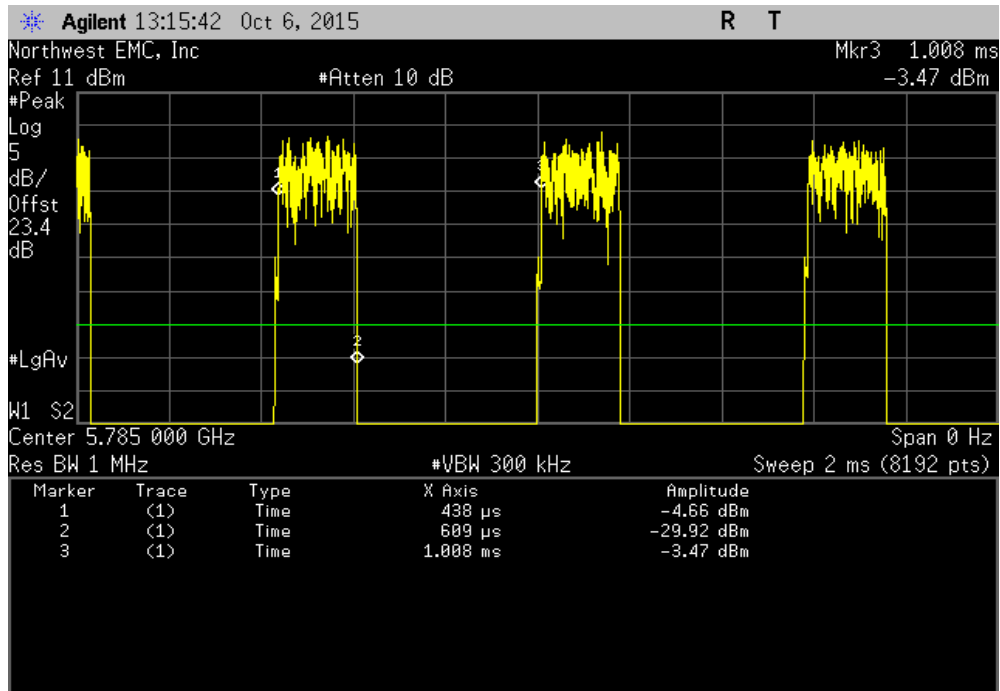


Ant 1, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	

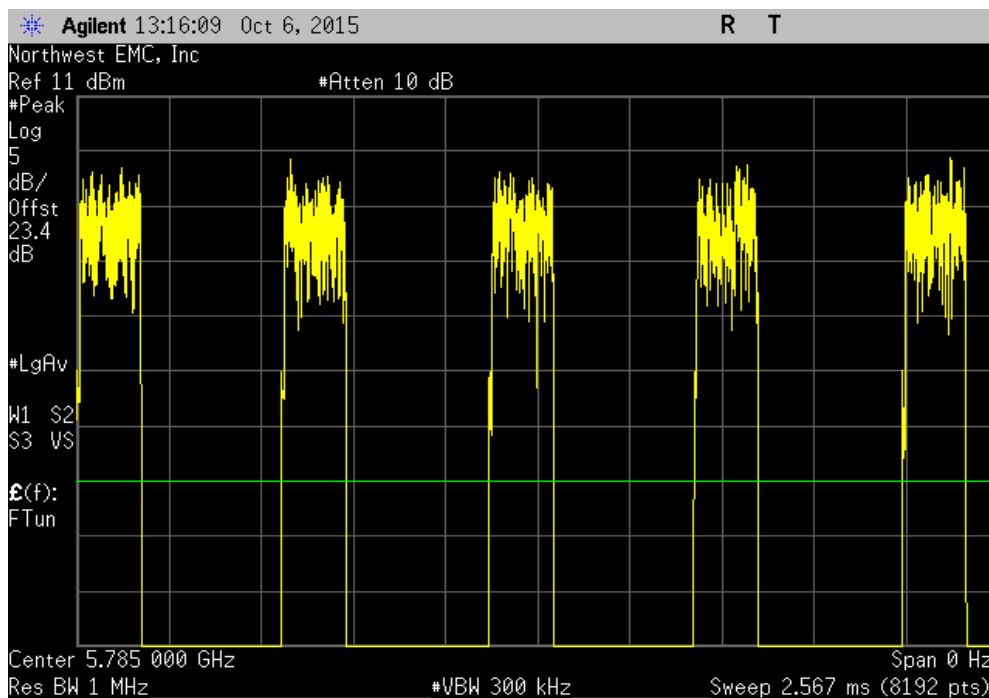


DUTY CYCLE

Ant 1, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
171 us	570.4 us	1	30	N/A	N/A	

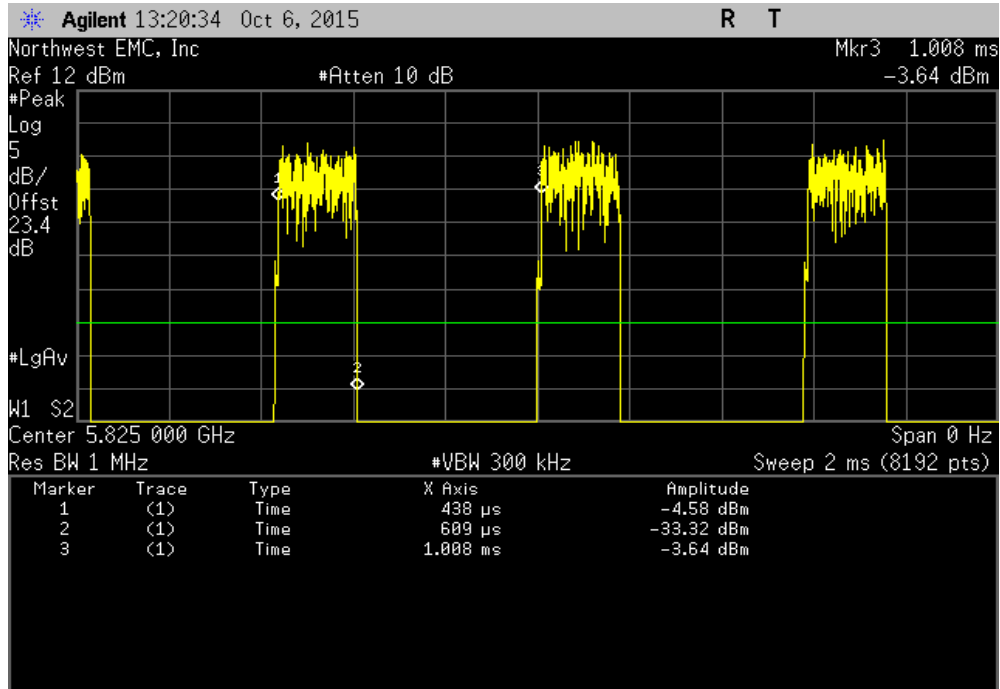


Ant 1, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

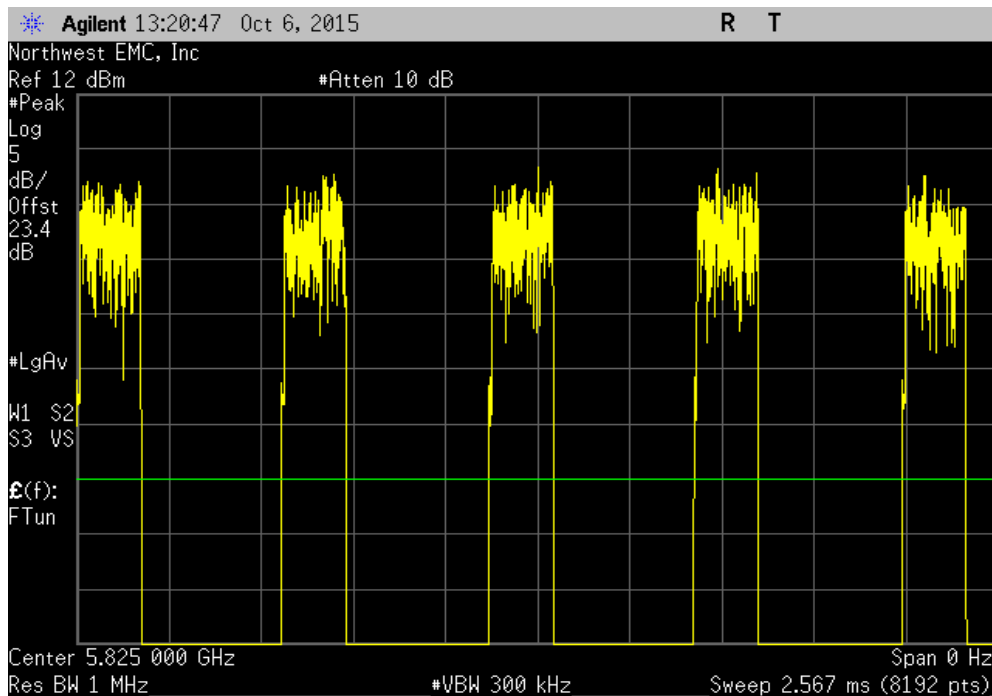


DUTY CYCLE

Ant 1, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
171 us	570.4 us	1	30	N/A	N/A	

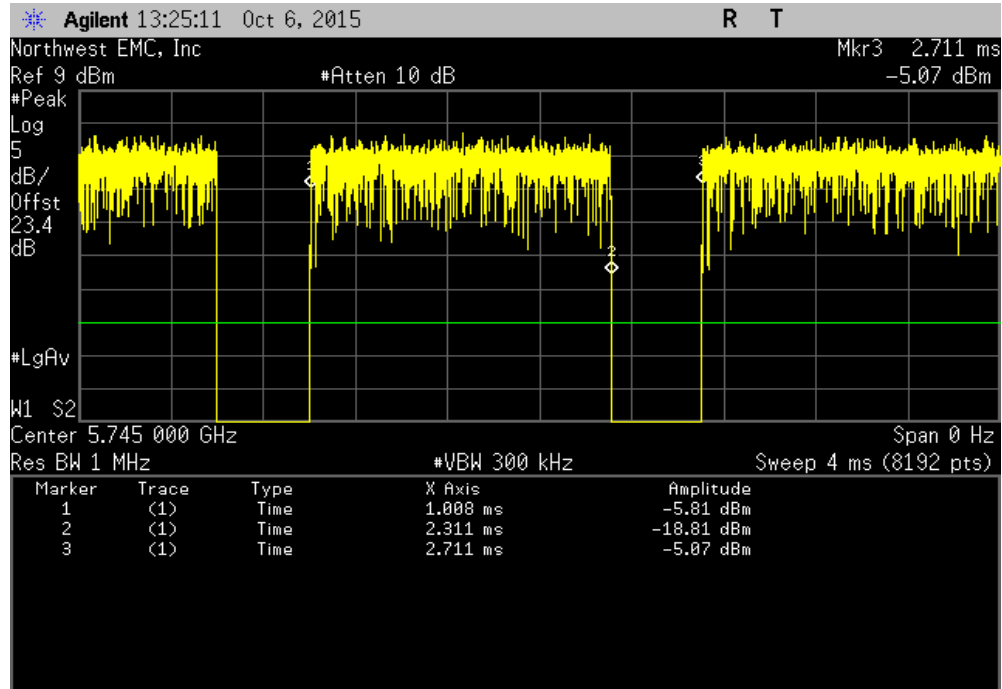


Ant 1, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

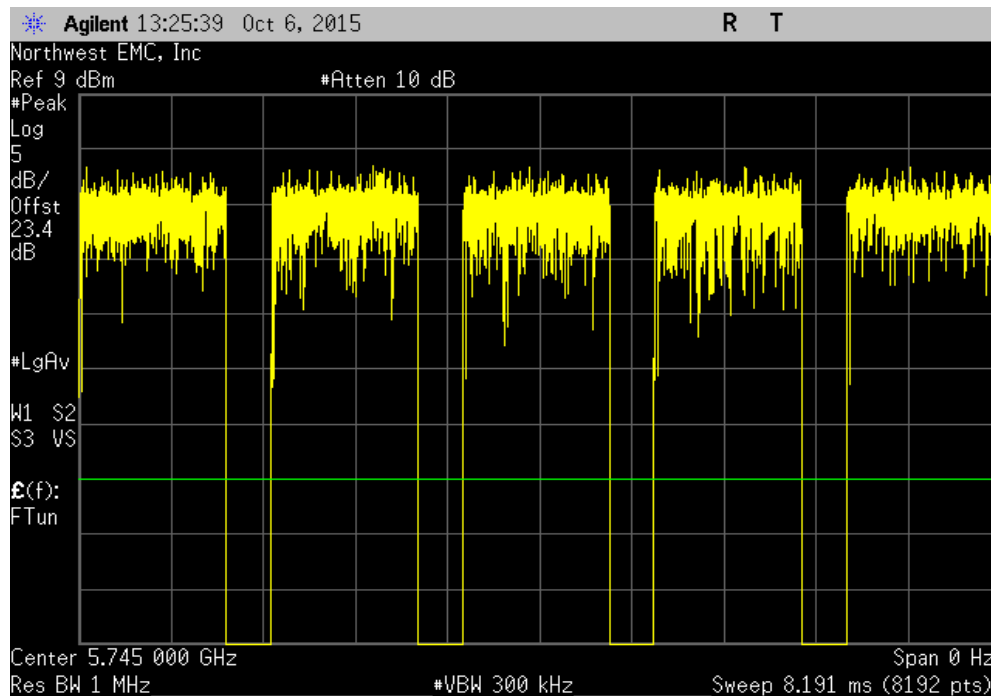


DUTY CYCLE

Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.303 ms	1.702 ms	1	76.5	N/A	N/A	

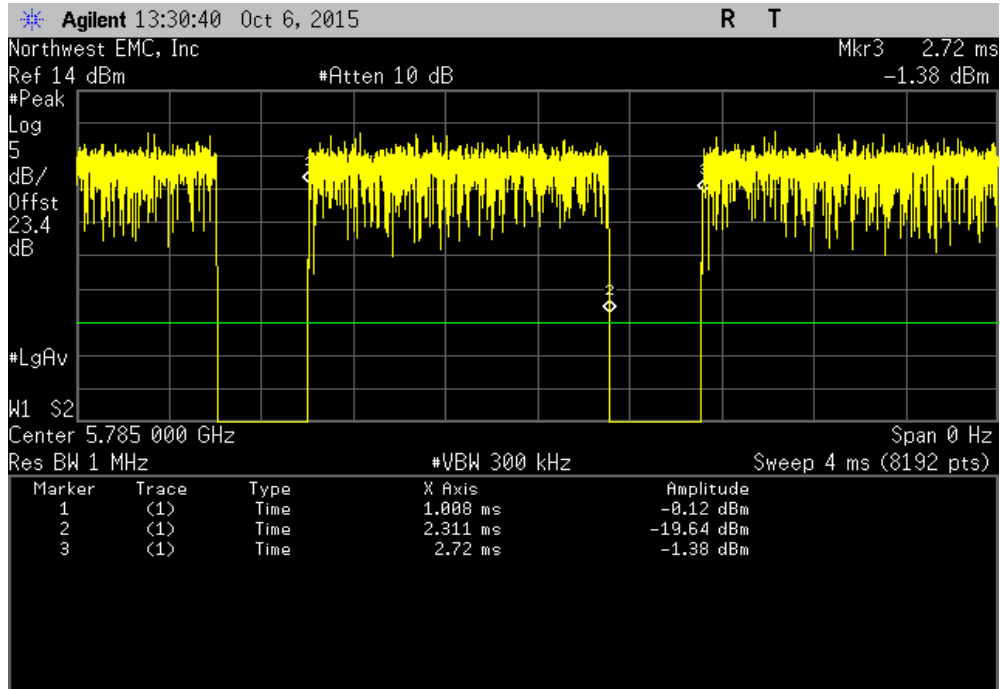


Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

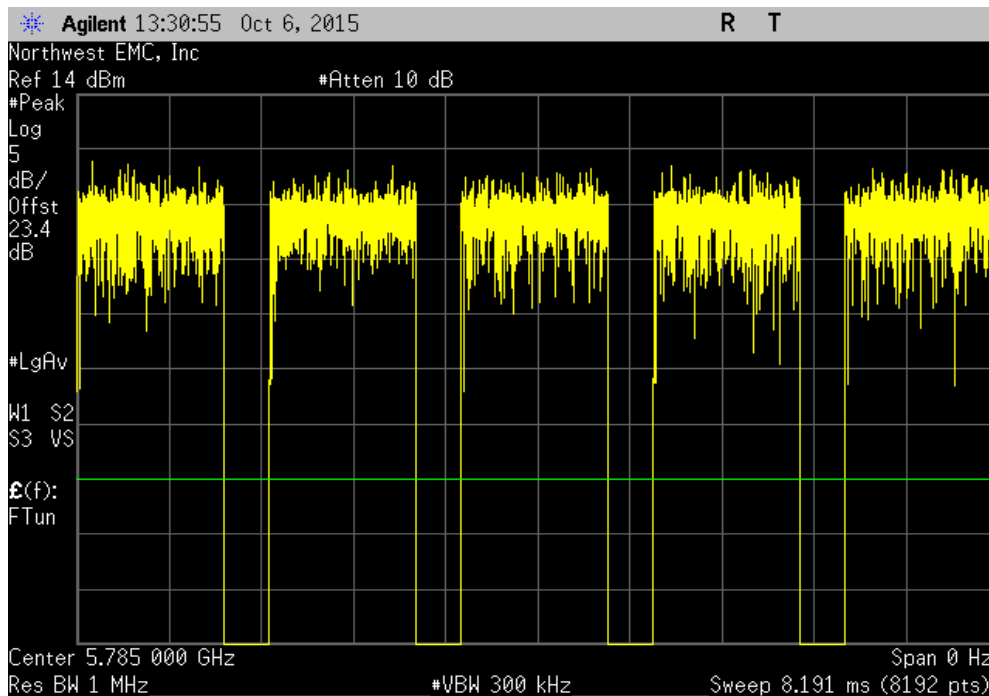


DUTY CYCLE

Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.303 ms	1.711 ms	1	76.1	N/A	N/A	

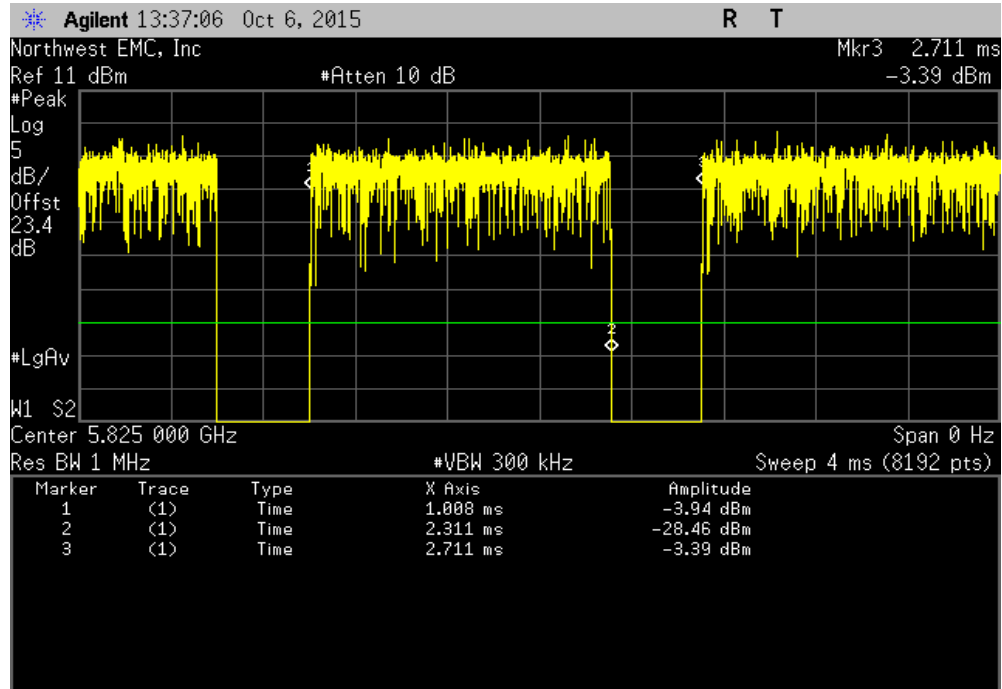


Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

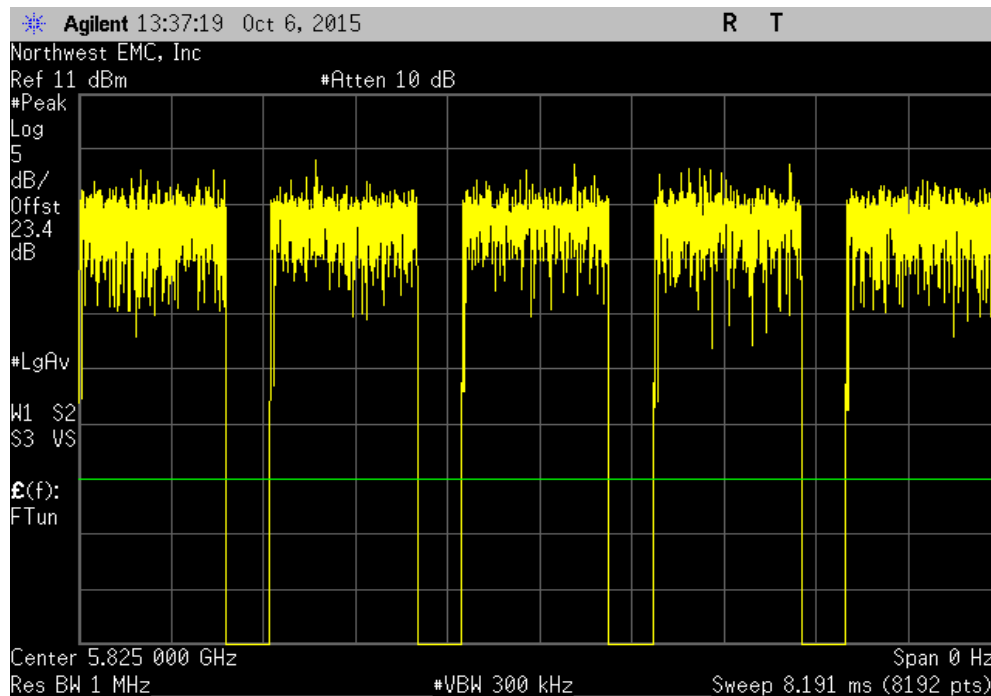


DUTY CYCLE

Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.303 ms	1.702 ms	1	76.5	N/A	N/A	

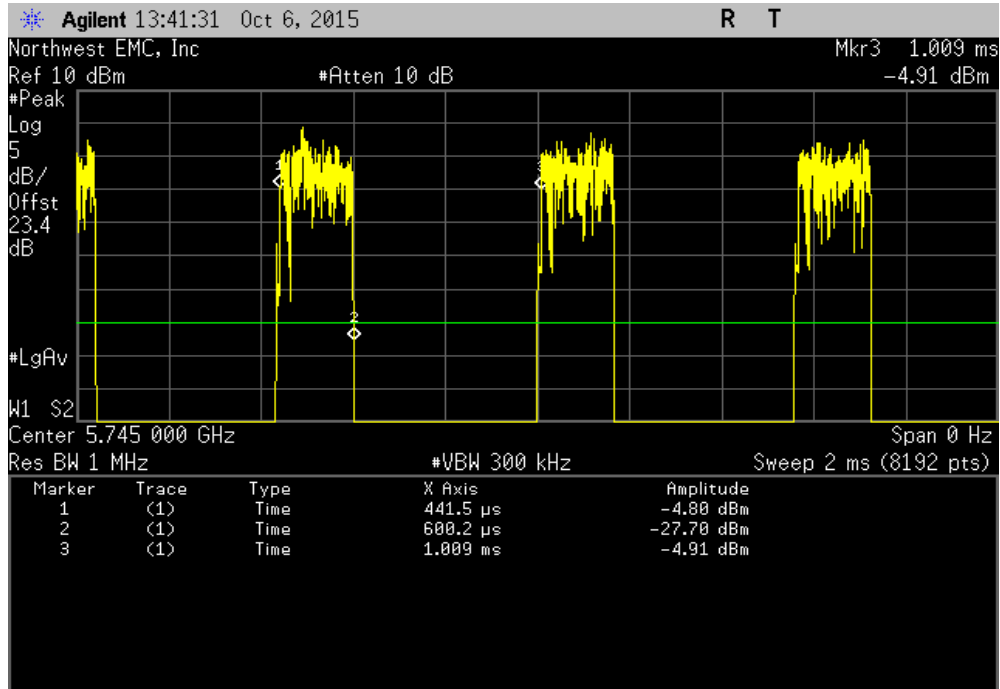


Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

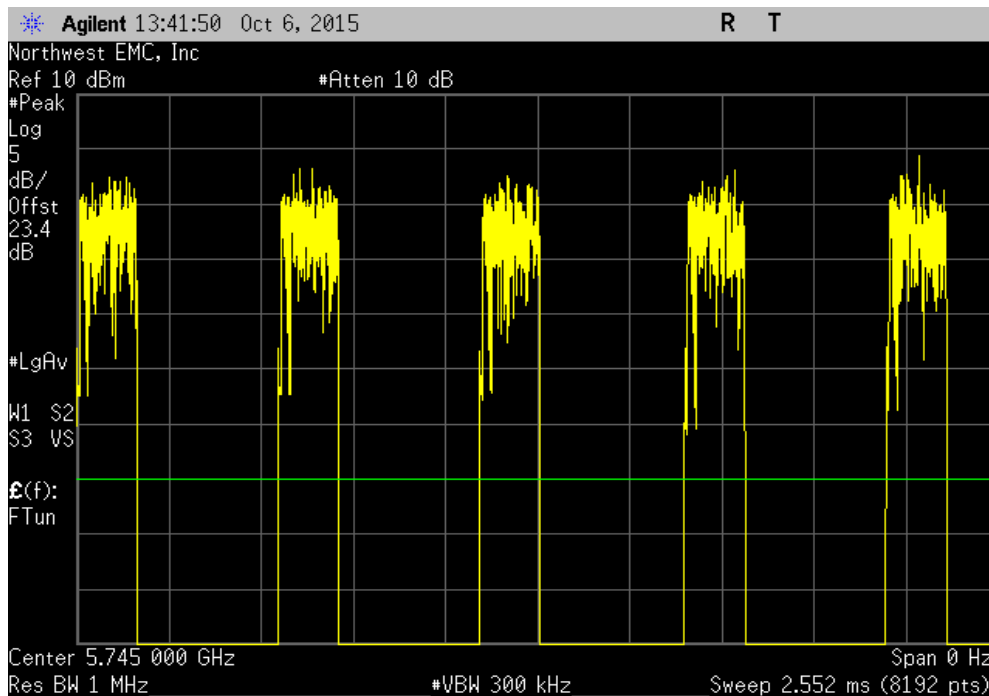


DUTY CYCLE

Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
158.7 us	567.2 us	1	28	N/A	N/A	

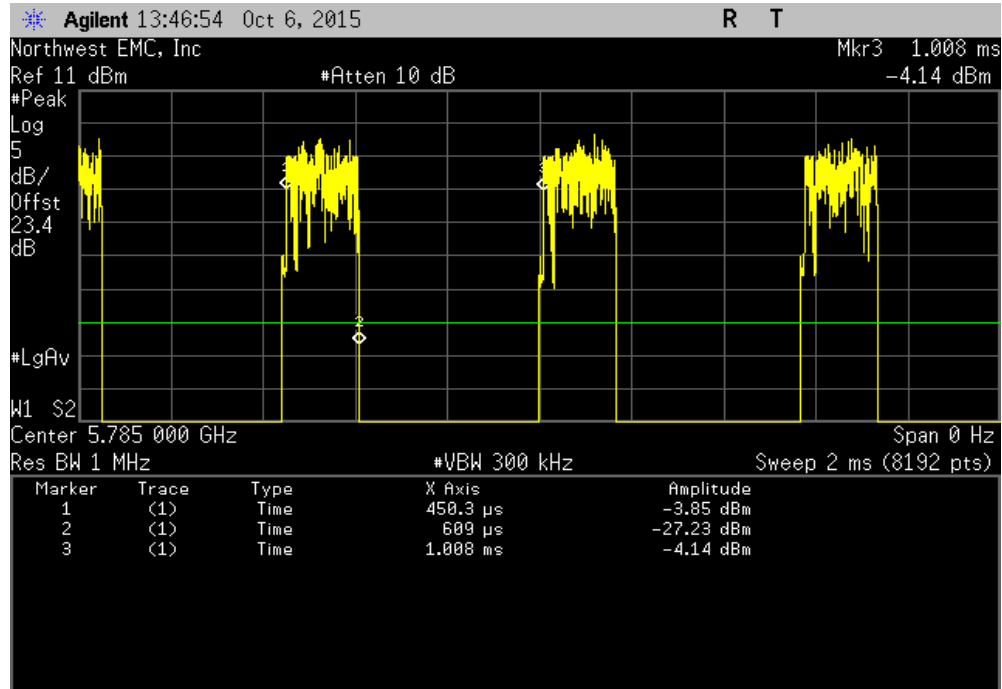


Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

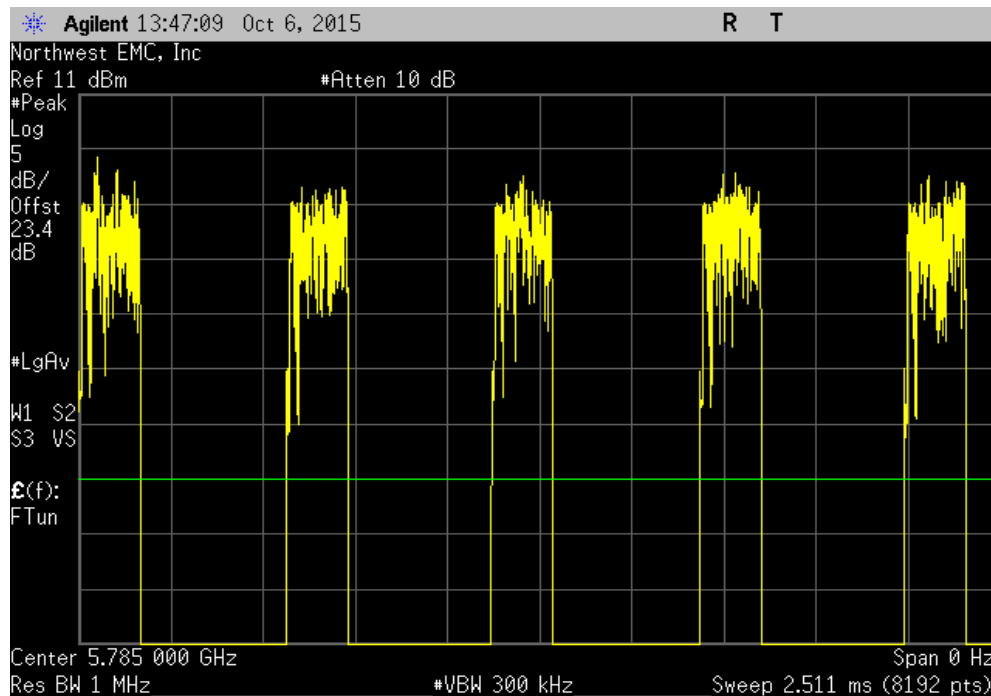


DUTY CYCLE

Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
158.7 us	558.1 us	1	28.4	N/A	N/A	

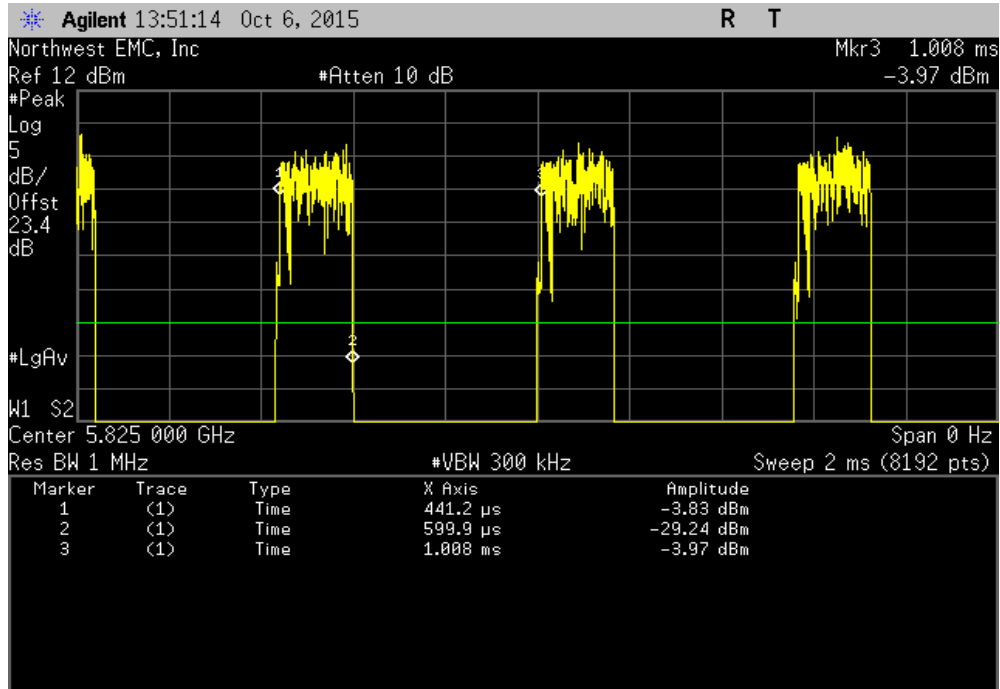


Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

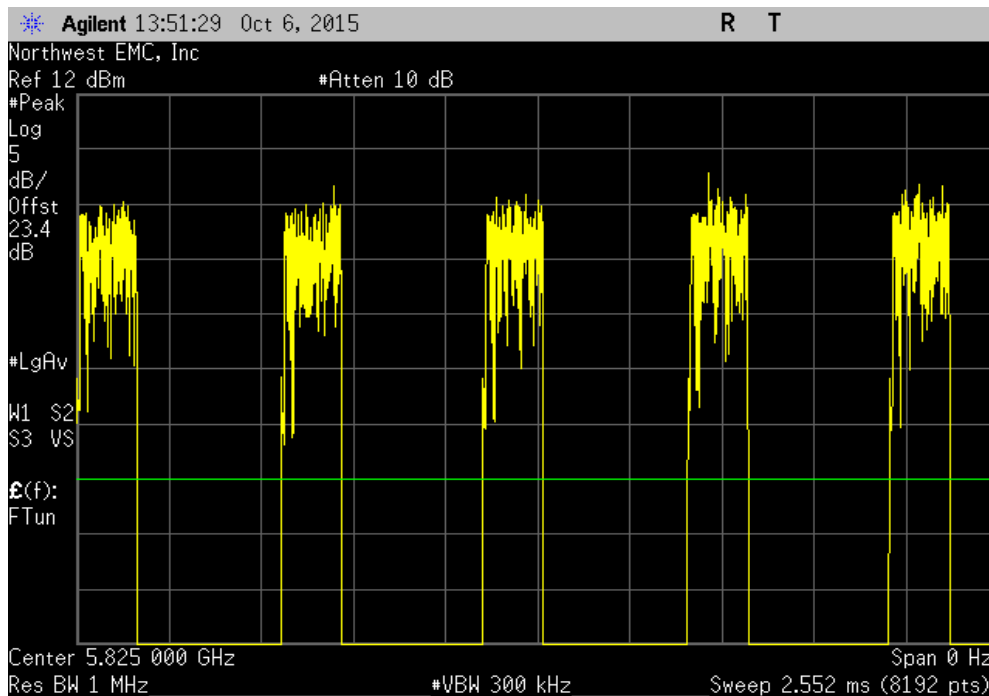


DUTY CYCLE

Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
158.7 us	567.2 us	1	28	N/A	N/A	

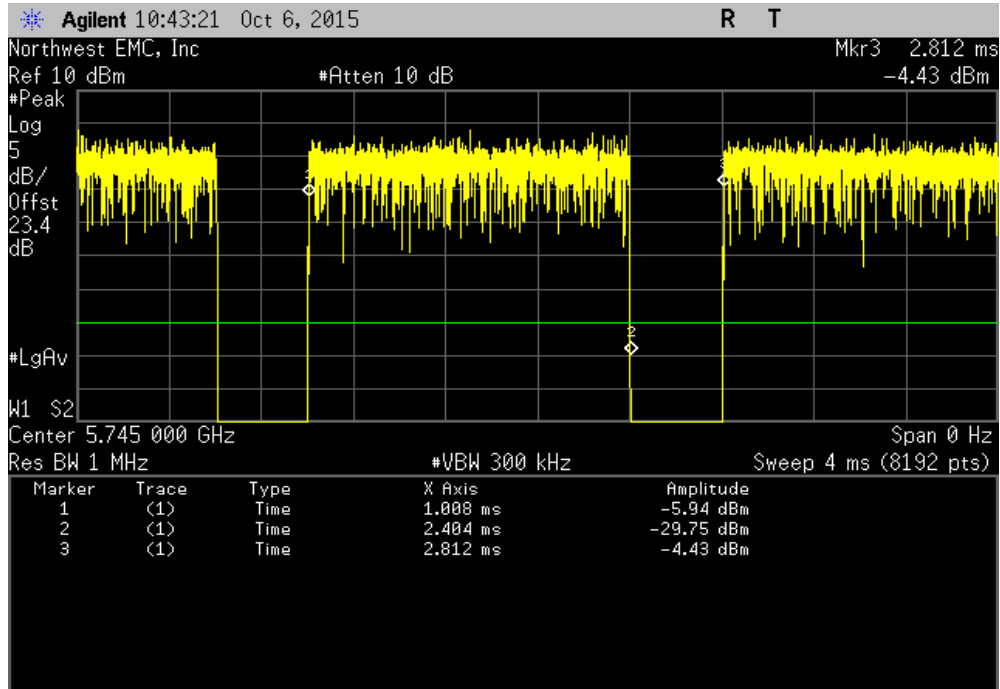


Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

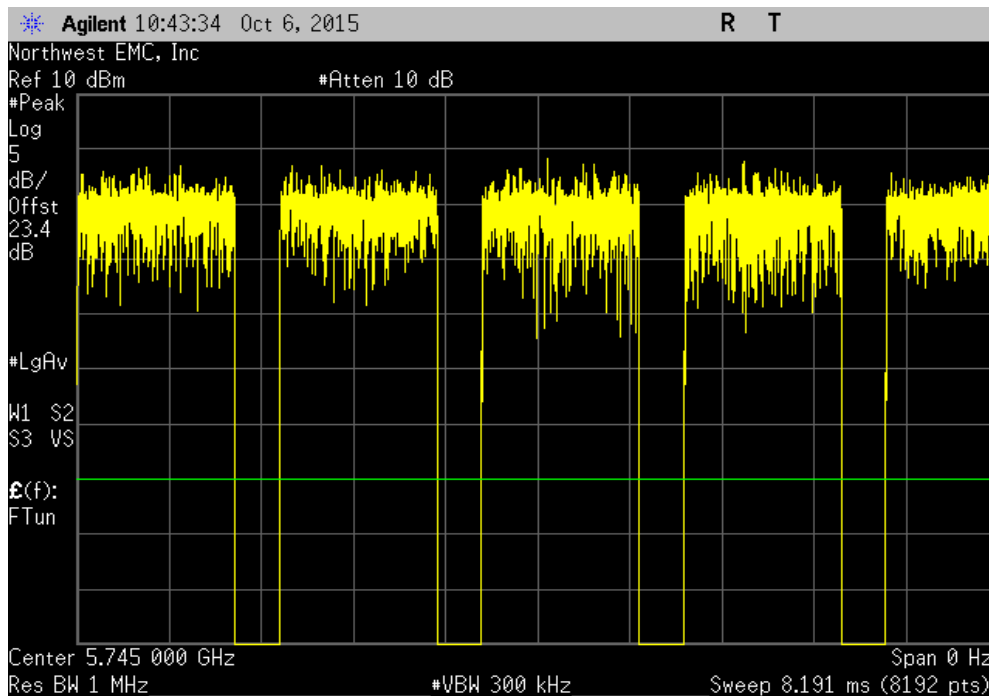


DUTY CYCLE

Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	1.395 ms	1.804 ms	1	77.4	N/A	N/A

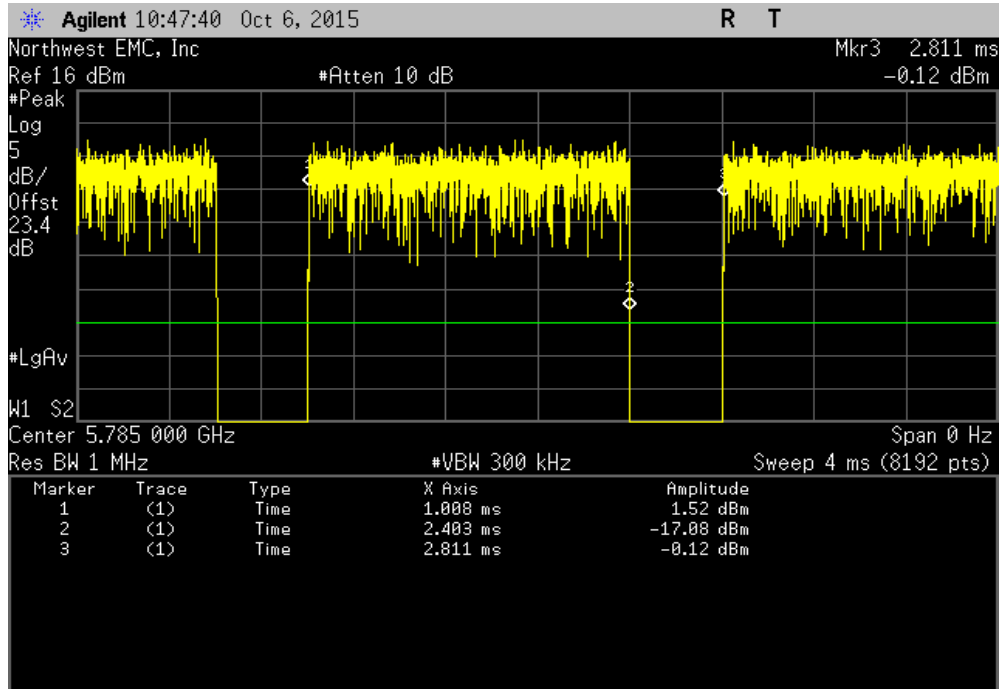


Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

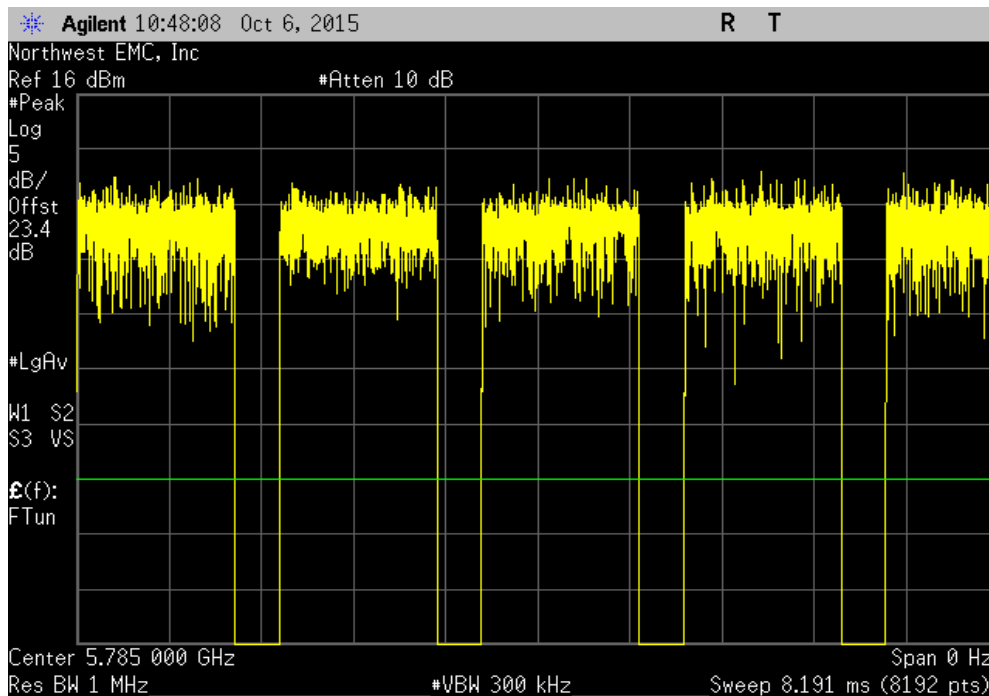


DUTY CYCLE

Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.395 ms	1.803 ms	1	77.4	N/A	N/A	

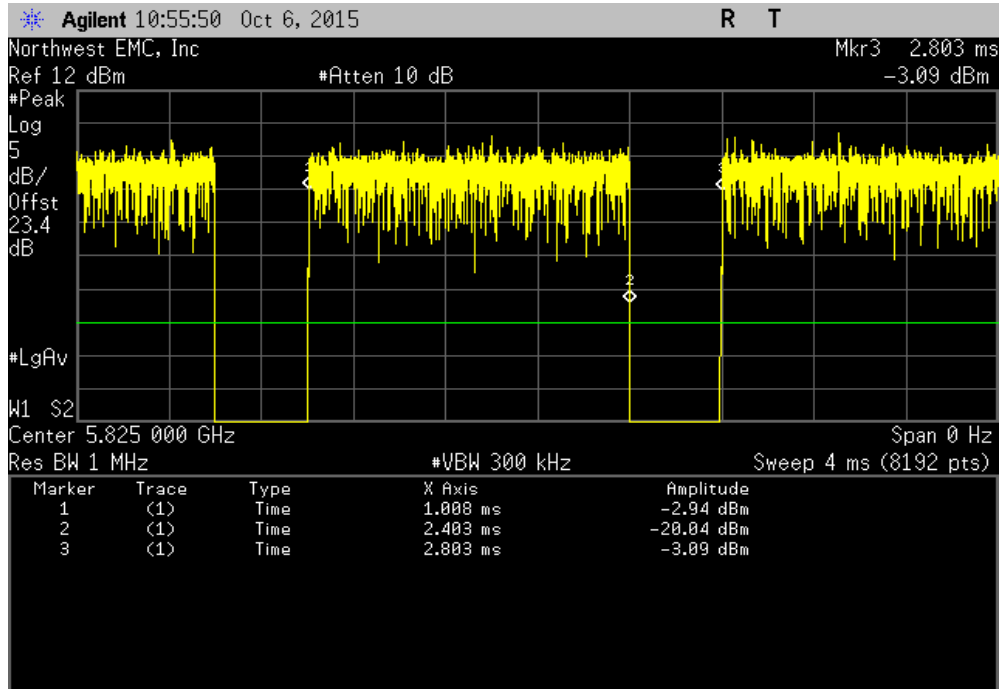


Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

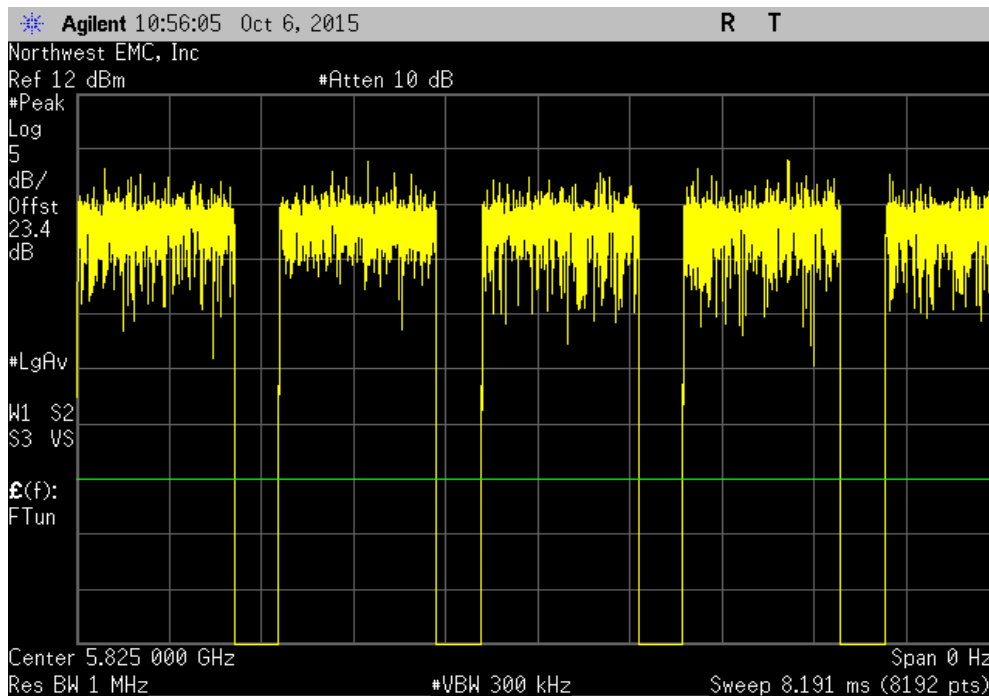


DUTY CYCLE

Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	1.395 ms	1.794 ms	1	77.7	N/A	N/A

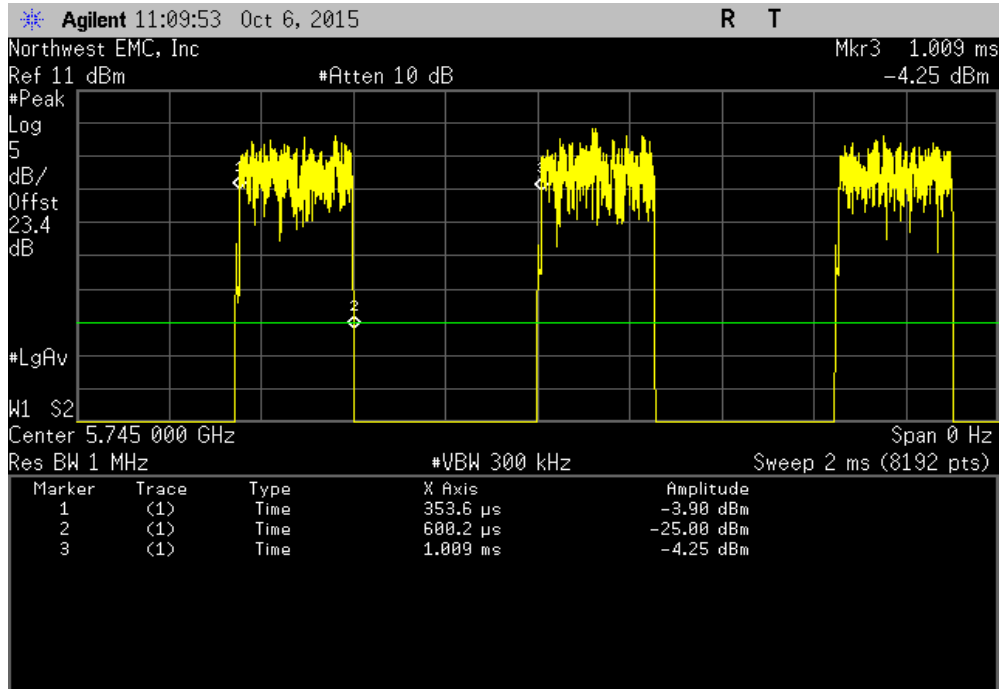


Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

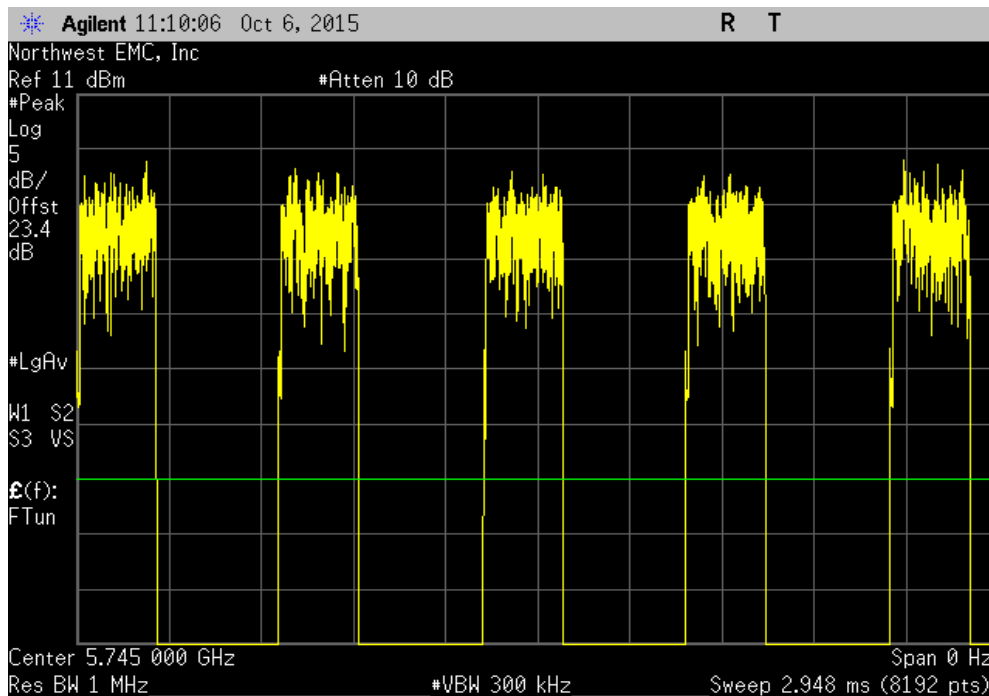


DUTY CYCLE

Ant 2, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
246.6 us	655.1 us	1	37.6	N/A	N/A	

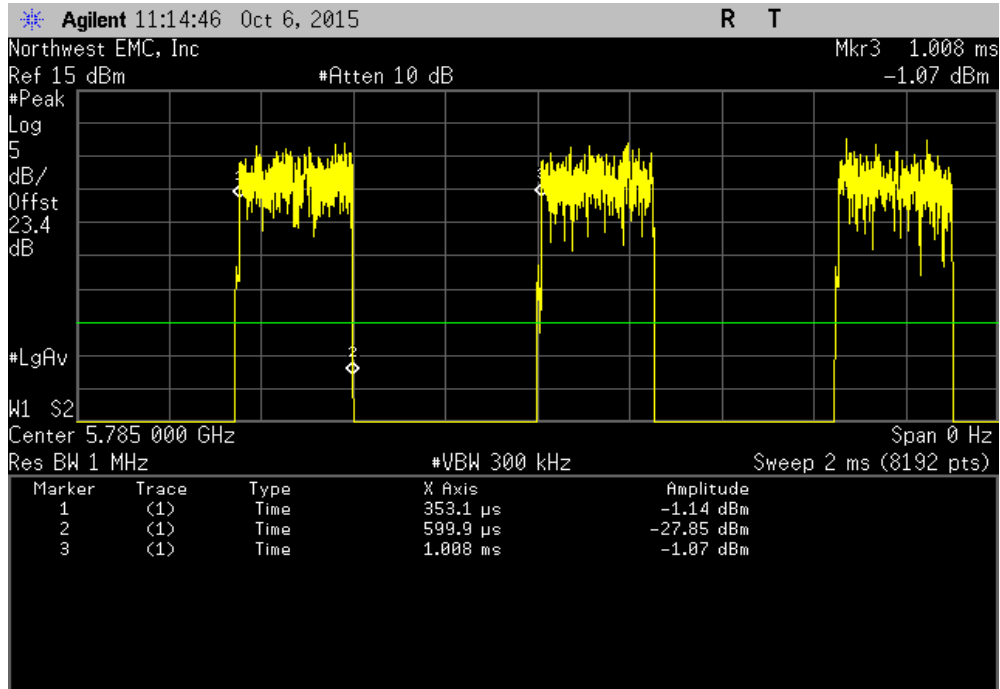


Ant 2, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

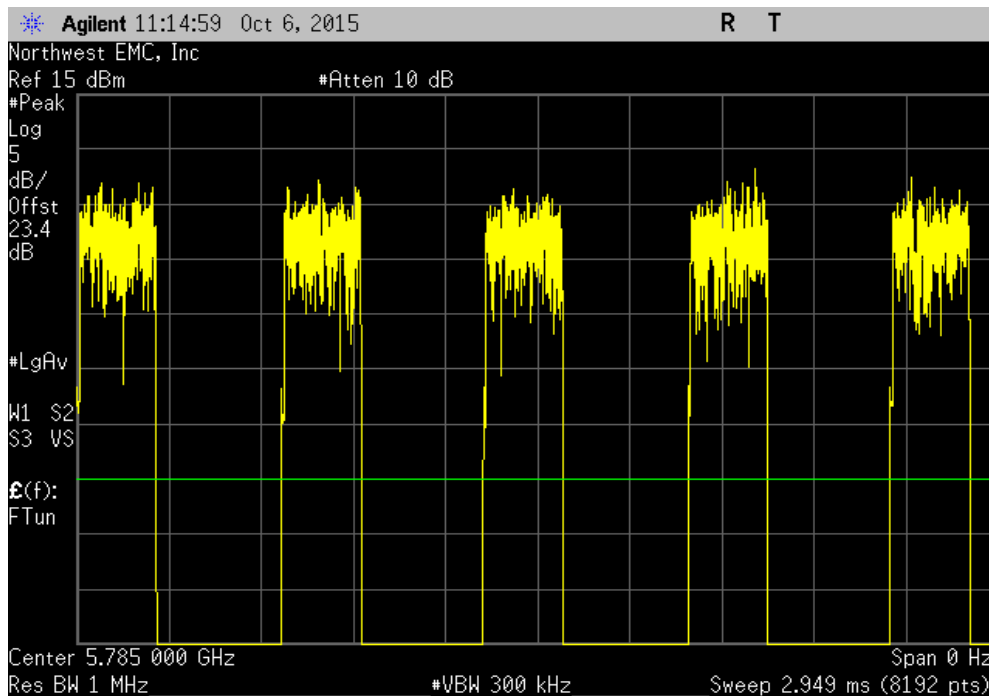


DUTY CYCLE

Ant 2, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
246.8 us	655.3 us	1	37.7	N/A	N/A	

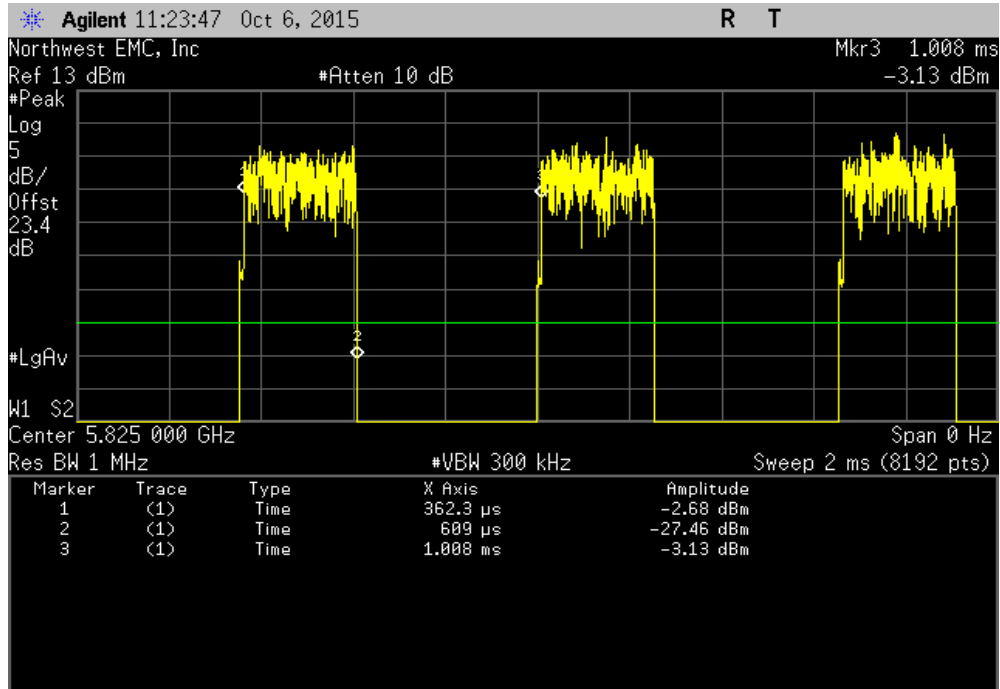


Ant 2, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

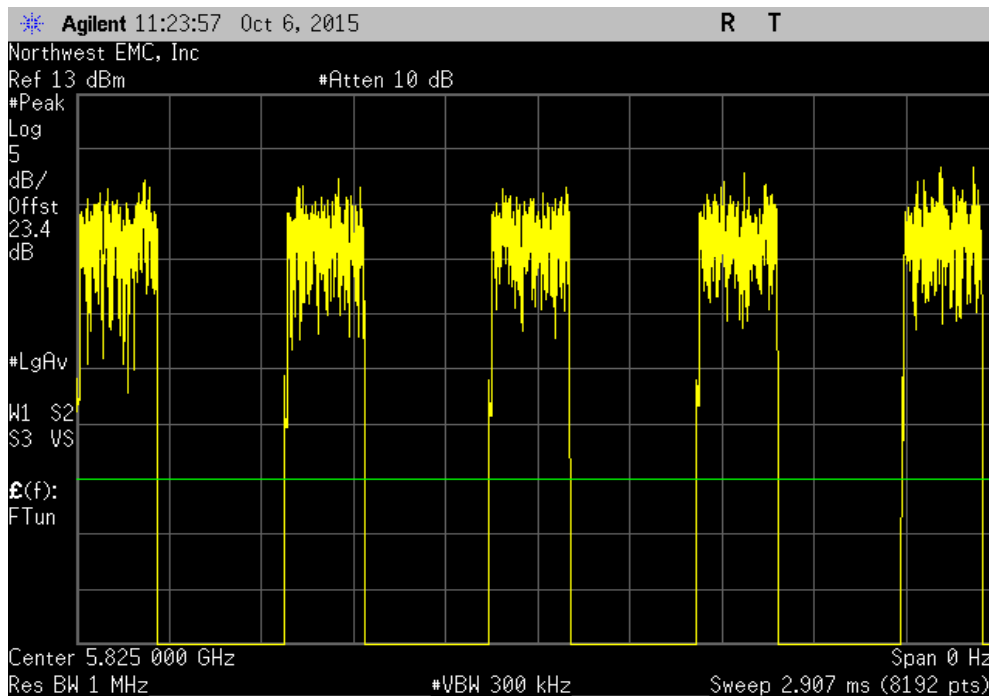


DUTY CYCLE

Ant 2, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
246.7 us	646.1 us	1	38.2	N/A	N/A	

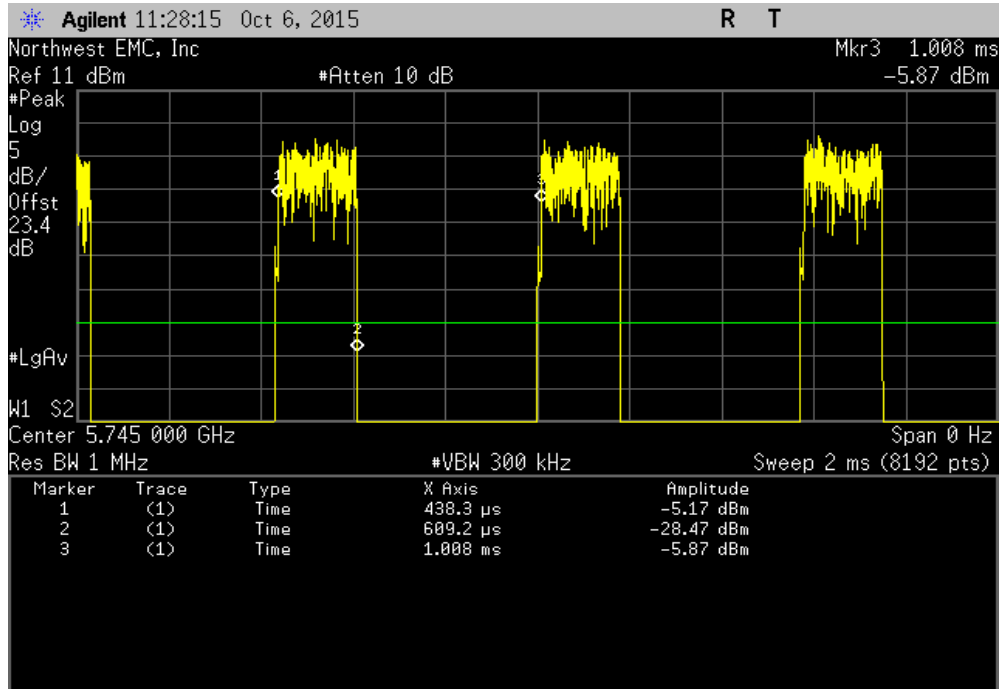


Ant 2, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

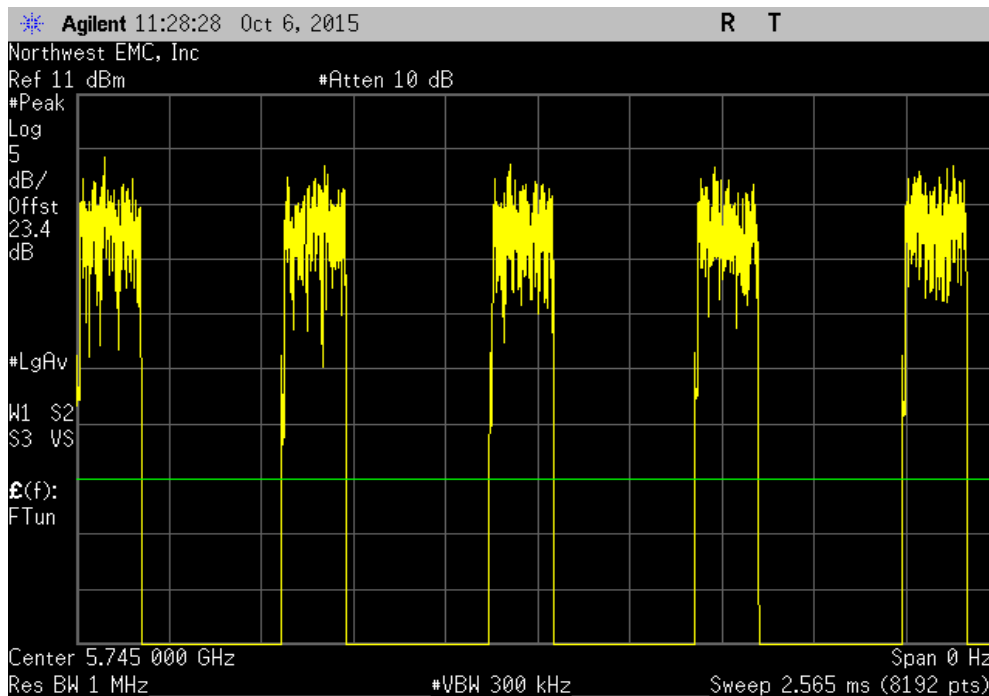


DUTY CYCLE

Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	170.9 us	570.1 us	1	30	N/A	N/A

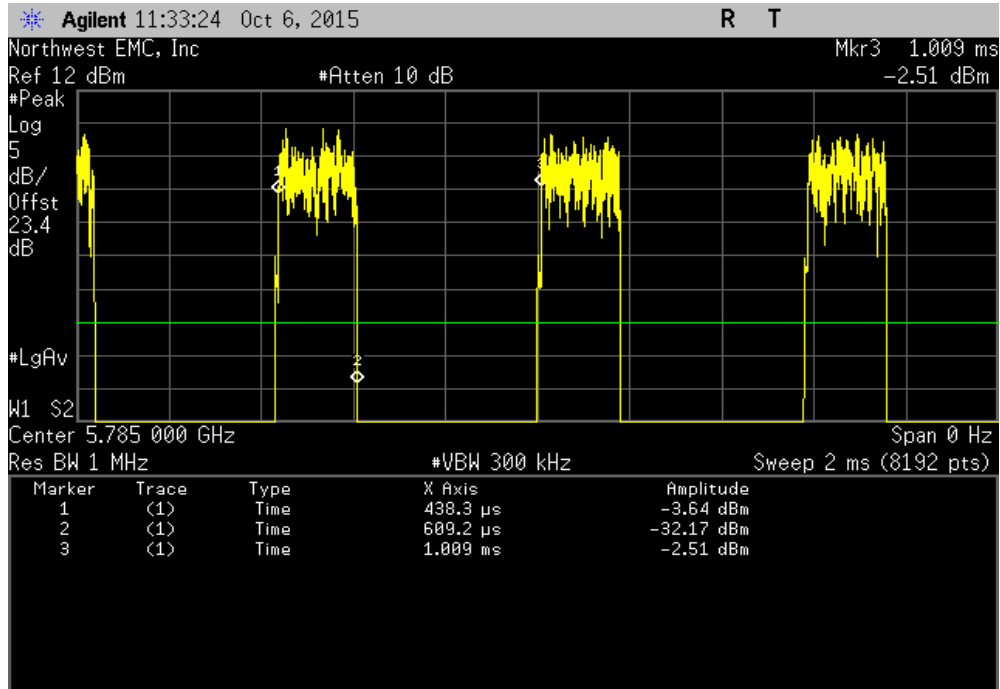


Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

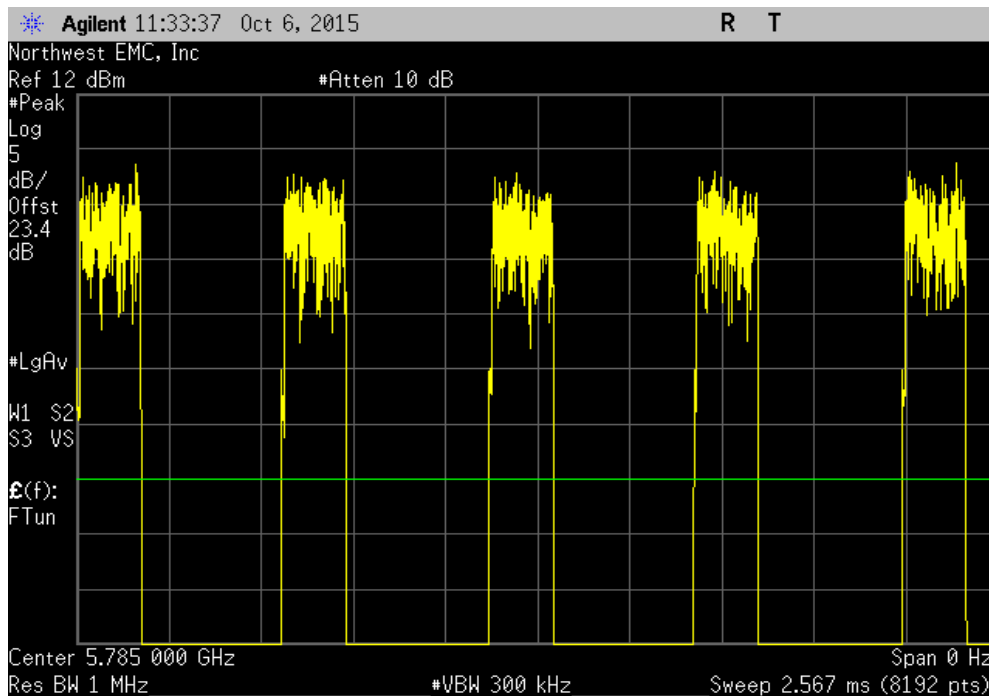


DUTY CYCLE

Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
170.9 us	570.4 us	1	30	N/A	N/A	

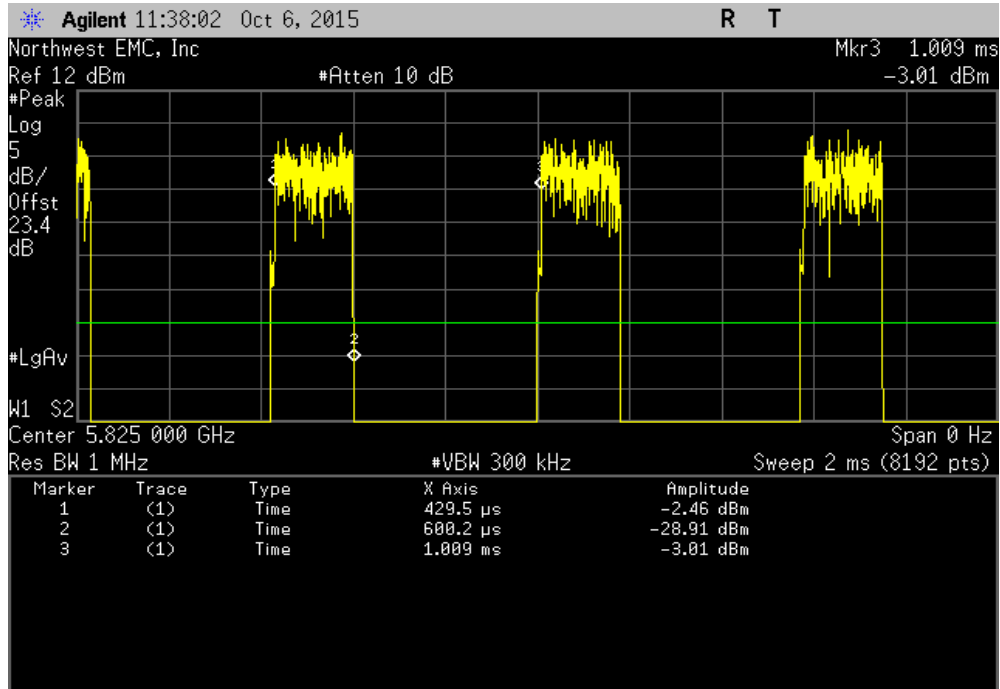


Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

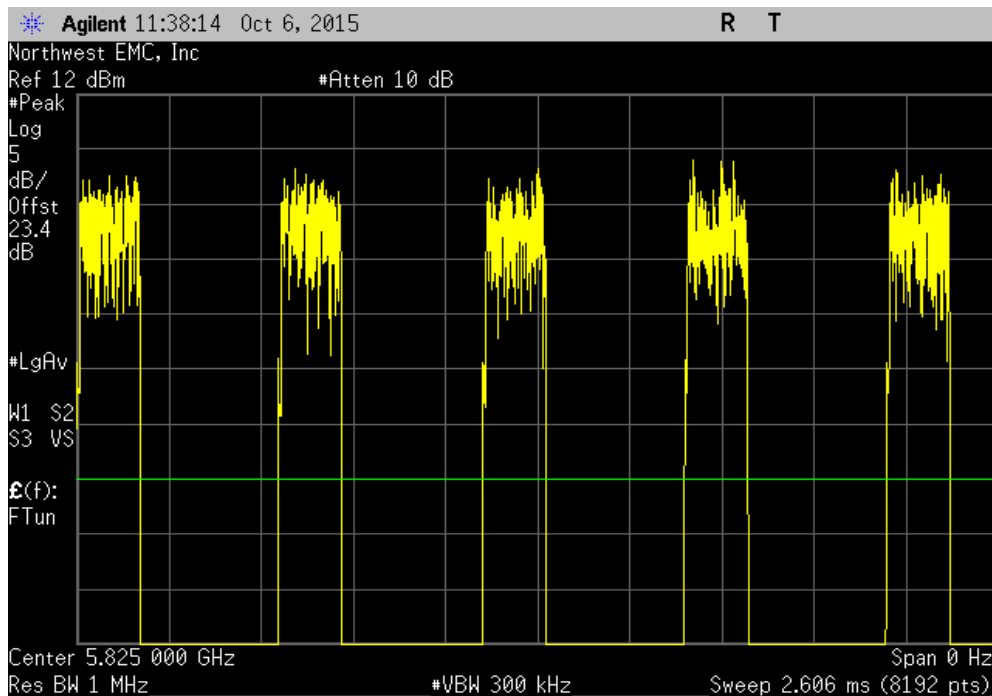


DUTY CYCLE

Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
170.7 us	579.2 us	1	29.5	N/A	N/A	

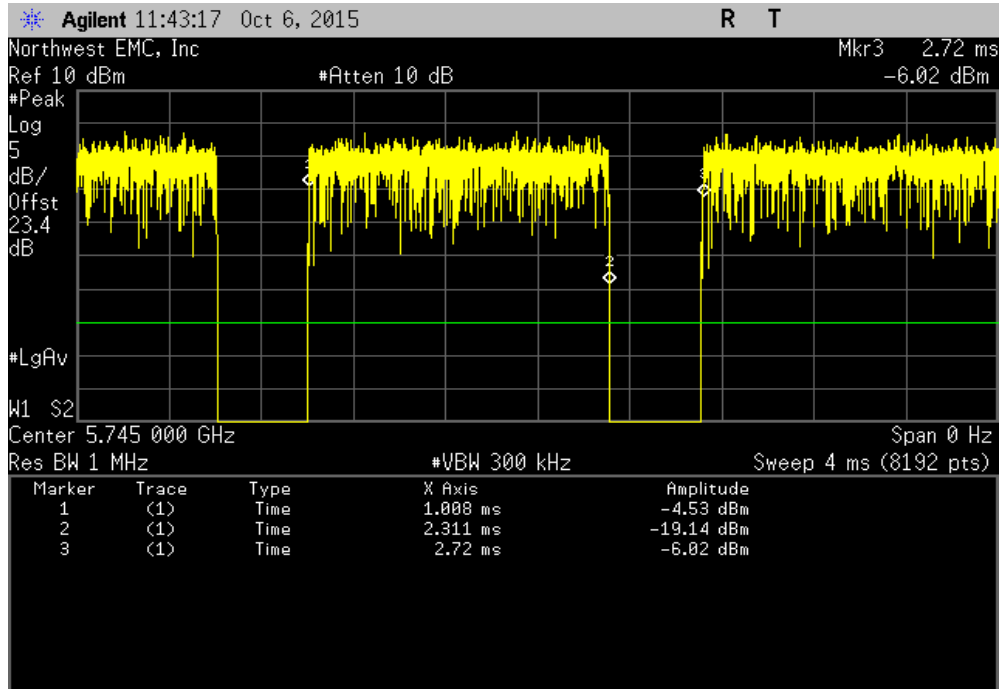


Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

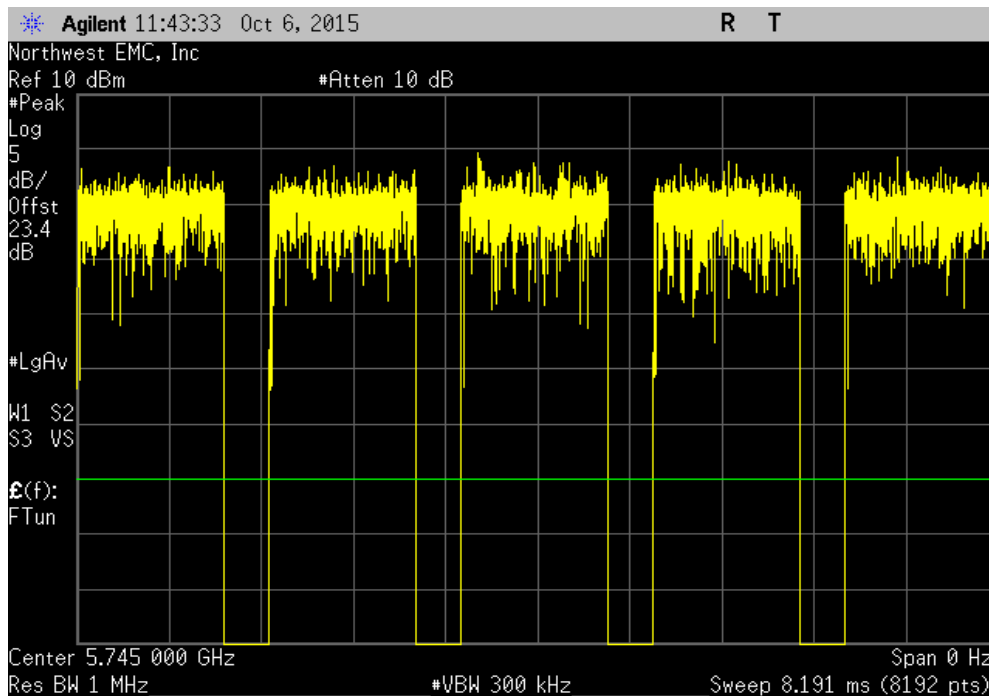


DUTY CYCLE

Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.303 ms	1.711 ms	1	76.1	N/A	N/A	

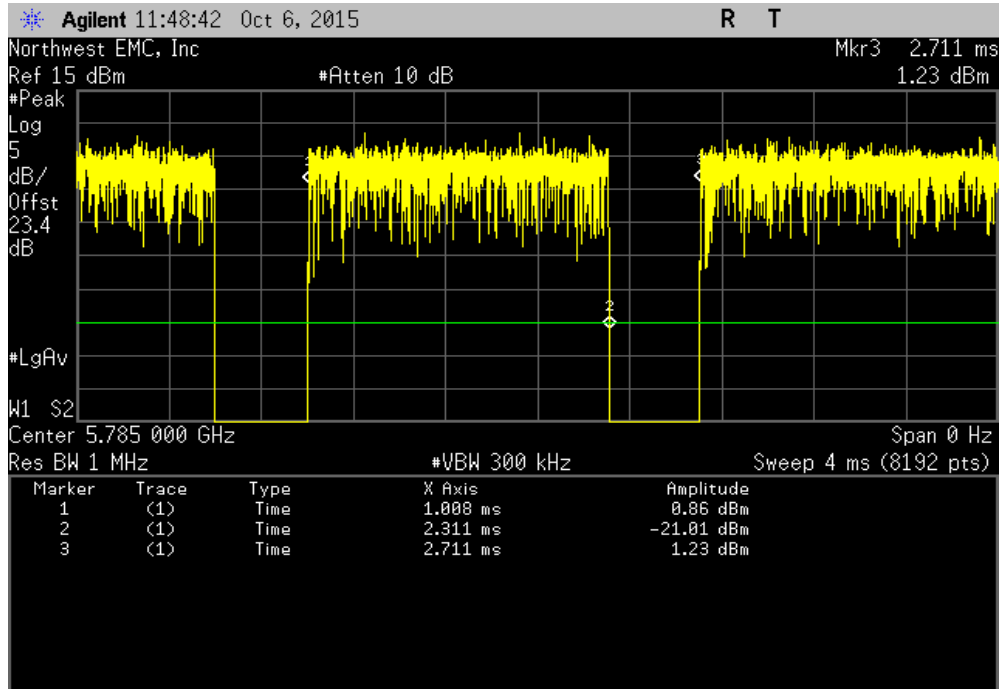


Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

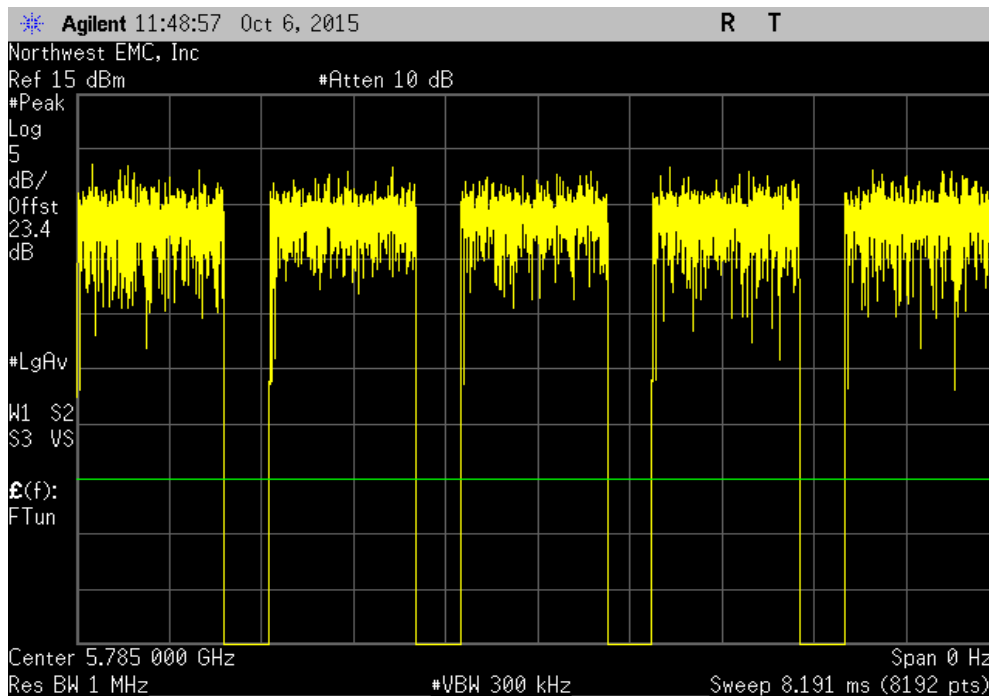


DUTY CYCLE

Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.303 ms	1.702 ms	1	76.5	N/A	N/A	

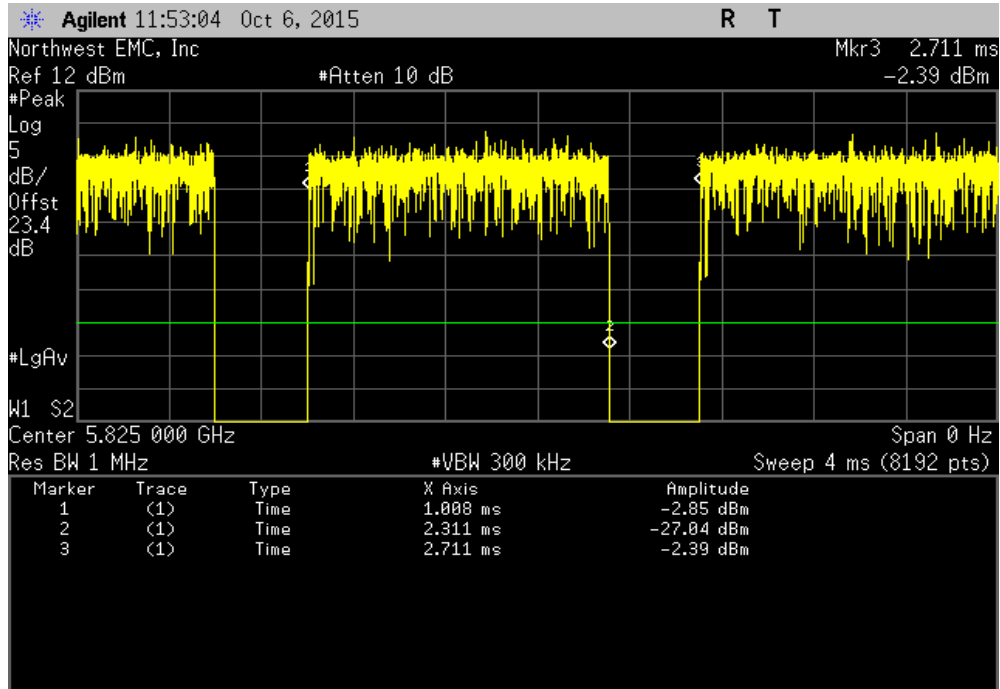


Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

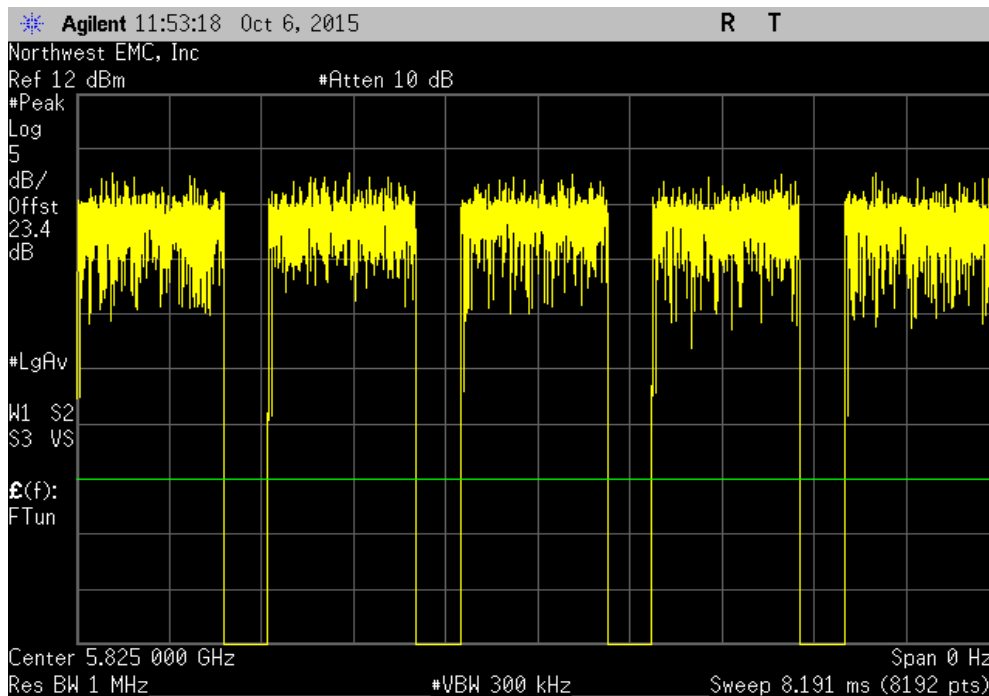


DUTY CYCLE

Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.303 ms	1.702 ms	1	76.5	N/A	N/A	

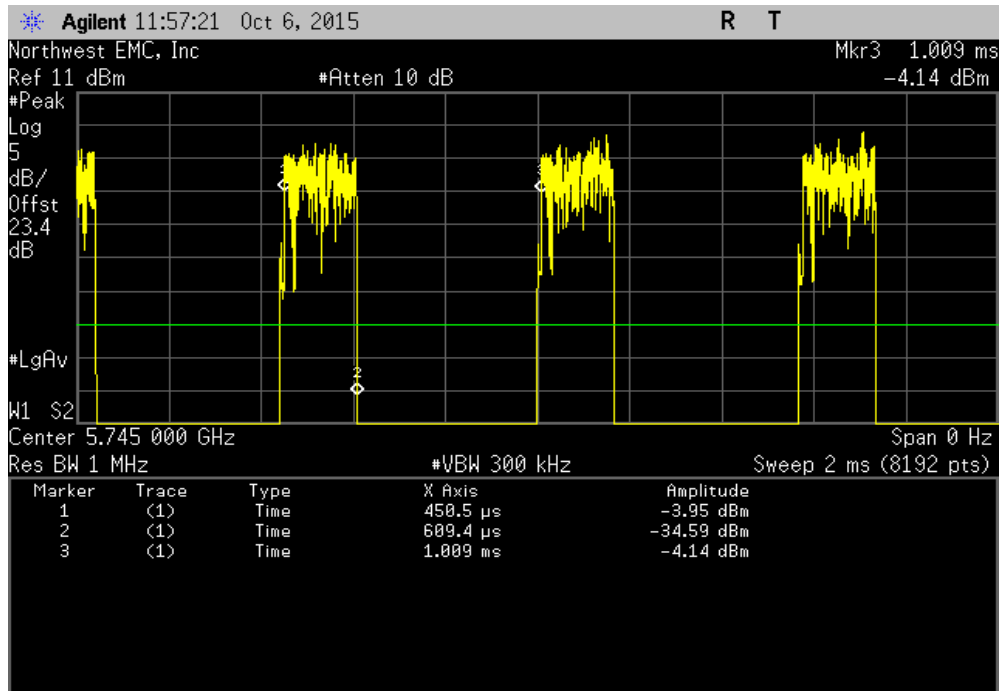


Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

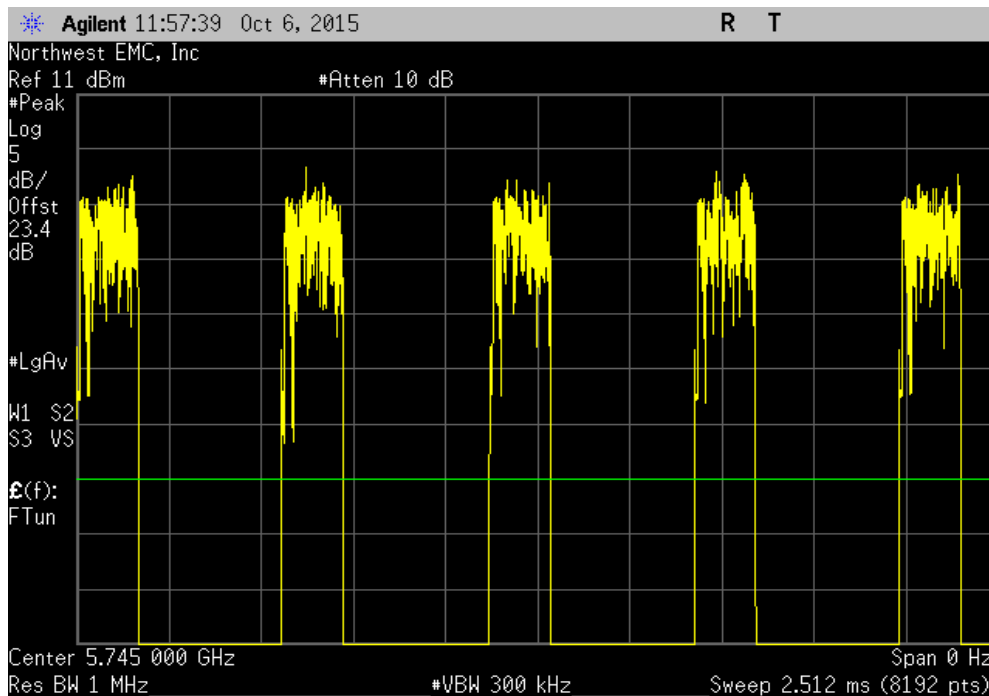


DUTY CYCLE

Ant 2, 802.11(n) MCS7, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
158.9 us	558.2 us	1	28.5	N/A	N/A	

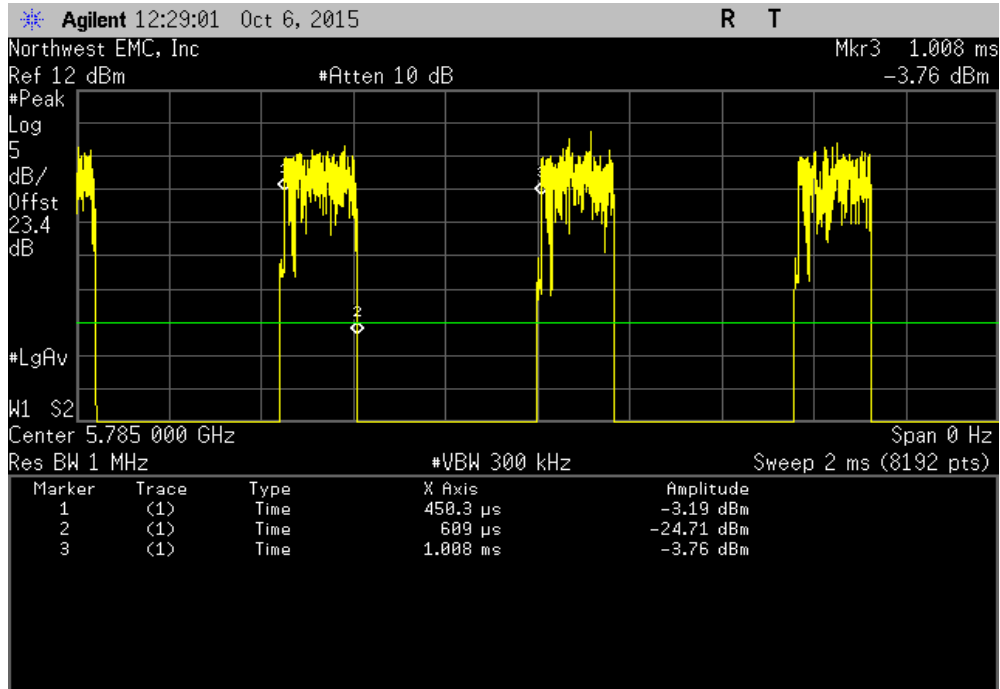


Ant 2, 802.11(n) MCS7, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

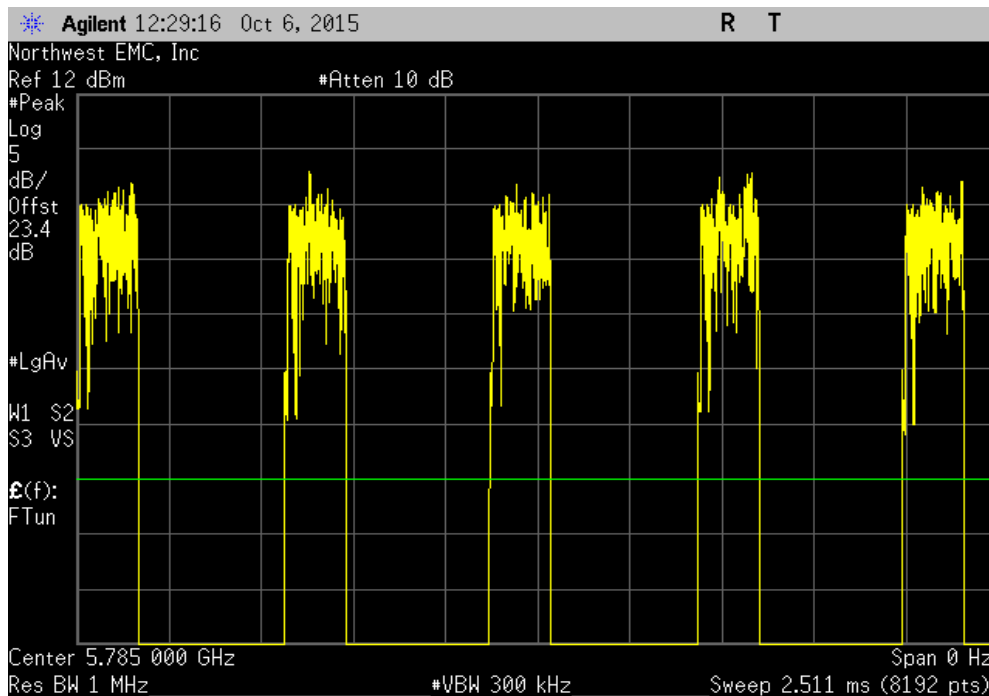


DUTY CYCLE

Ant 2, 802.11(n) MCS7, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
158.7 us	558.1 us	1	28.4	N/A	N/A	

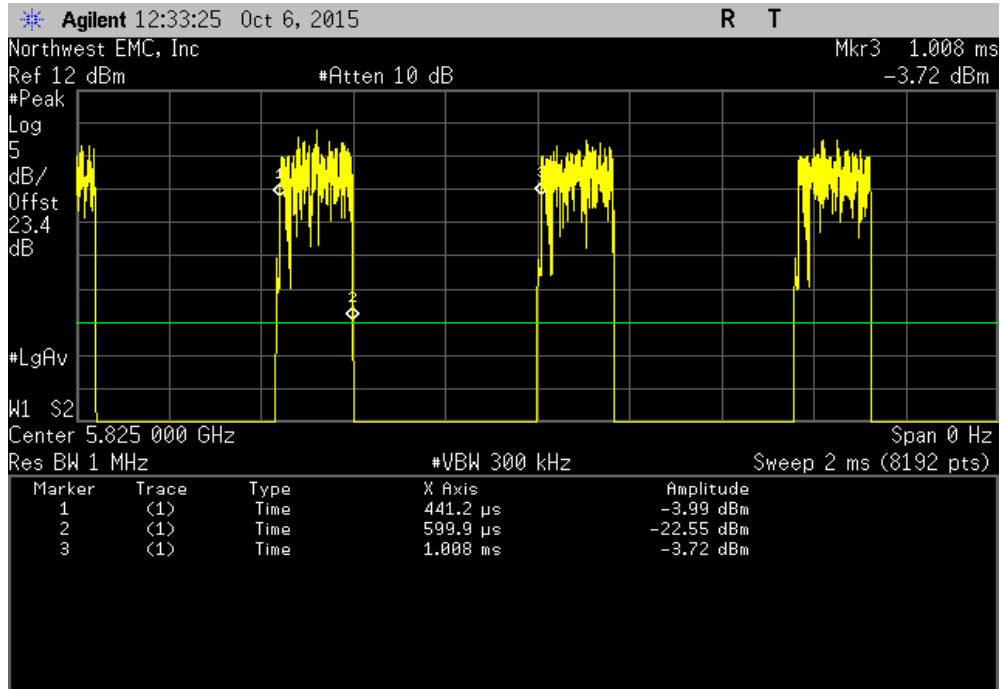


Ant 2, 802.11(n) MCS7, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

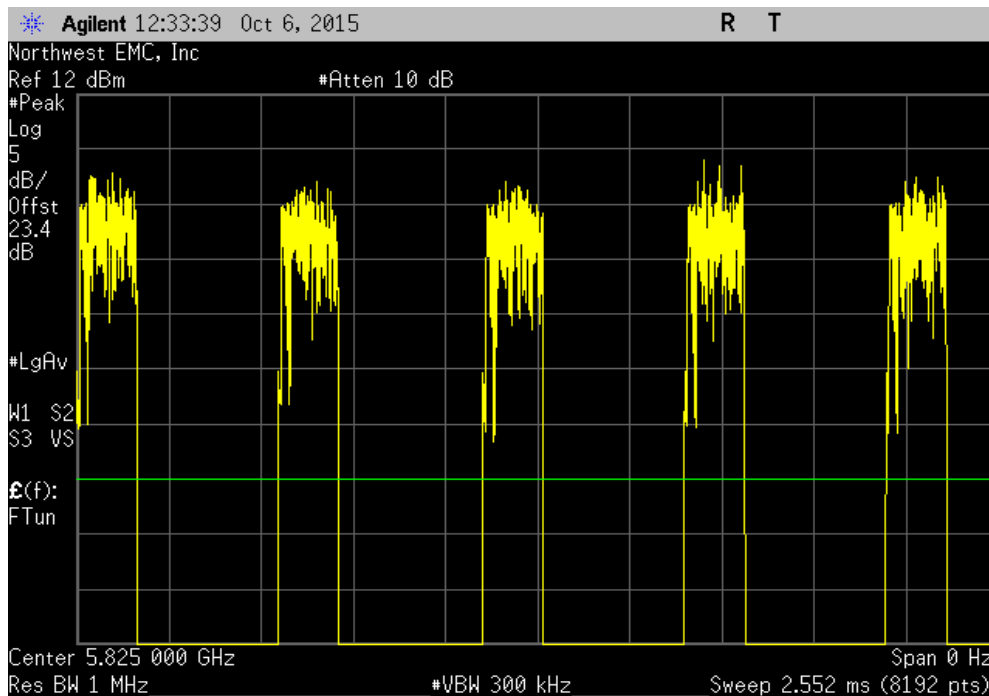


DUTY CYCLE

Ant 2, 802.11(n) MCS7, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
158.7 us	567.2 us	1	28	N/A	N/A	



Ant 2, 802.11(n) MCS7, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



MAXIMUM CONDUCTED OUTPUT 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)
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFE	6/22/2015	12
Cable	ESM Cable Corp.	TTBJ-141 KMKM-72	NC5	6/6/2015	12
Attenuator	Fairview Microwave	SA4014-20	TKE	1/16/2015	12
Block - DC	Fairview Microwave	SD3379	AMJ	6/6/2015	12
Generator - Signal	Agilent	N5183A	TIA	4/7/2014	24

TEST DESCRIPTION

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. The radio was operated in the modes as shown in the following data sheets.

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.

Prior to measuring maximum 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.

The maximum conducted output power was measured using ANSI C63.10, Method SA-2 (RMS detection and trace averaging across the on and off times of the EUT transmission and use of a duty cycle correction factor).

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

- RMS Detector
- Trace average 100 traces in power averaging mode.
- Power was integrated across "B", by using the channel power function of the analyzer.

A duty cycle correction factor was added to the measurement using the results of the formula of $10 \cdot \log(1/D)$ where D is the duty cycle.

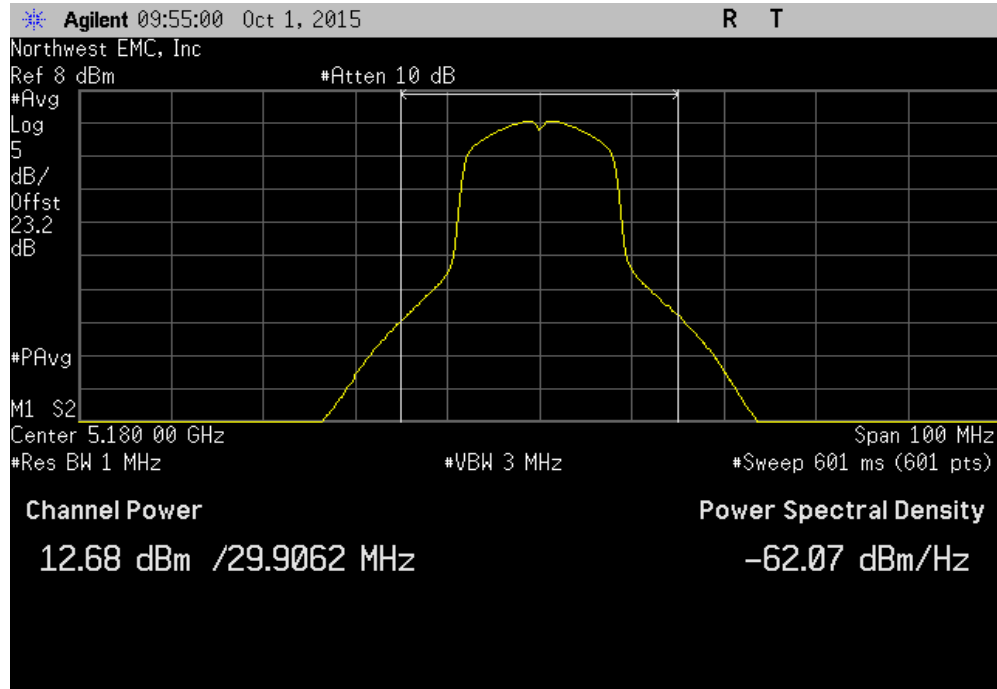
MAXIMUM CONDUCTED OUTPUT POWER

EUT: Precor Wi-Fi / Bluetooth Module Model 303346				Work Order: PRCR0230	
Serial Number: None				Date: 10/06/15	
Customer: Precor, Inc.				Temperature: 23°C	
Attendees: Rich Whitbeck				Humidity: 46%	
Project: None				Barometric Pres.: 1015mb	
Tested by: Richard Melloth		Power: 110VAC/60Hz		Job Site: NC02	
TEST SPECIFICATIONS				Test Method	
FCC 15.407:2015		ANSI C63.10:2013			
COMMENTS					
Power settings at Maximum.					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	1	Signature 			
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm) Results
Ant 1					
802.11(a) 6 Mbps					
5150 - 5250 MHz Band					
Low Channel 36, 5180 MHz		12.684	1.1	13.8	24 Pass
High Channel 48, 5240 MHz		12.775	1.1	13.9	24 Pass
5250 - 5350 MHz Band					
Low Channel 52, 5260 MHz		9.979	1.1	11.1	24 Pass
High Channel 64, 5320 MHz		10.016	1.1	11.1	24 Pass
5470 - 5725 MHz Band					
Low Channel 100, 5500 MHz		10.859	1.1	12	24 Pass
Mid Channel 120, 5600 MHz		14.087	1.1	15.2	24 Pass
High Channel 140, 5700 MHz		8.218	1.1	9.3	24 Pass
802.11(a) 36 Mbps					
5150 - 5250 MHz Band					
Low Channel 36, 5180 MHz		10.482	4.2	14.7	24 Pass
High Channel 48, 5240 MHz		10.555	4.2	14.8	24 Pass
5250 - 5350 MHz Band					
Low Channel 52, 5260 MHz		7.362	4.2	11.5	24 Pass
High Channel 64, 5320 MHz		7.277	4.2	11.5	24 Pass
5470 - 5725 MHz Band					
Low Channel 100, 5500 MHz		8.091	4.2	12.3	24 Pass
Mid Channel 120, 5600 MHz		9.663	4.2	13.9	24 Pass
High Channel 140, 5700 MHz		5.705	4.2	9.9	24 Pass
802.11(a) 54 Mbps					
5150 - 5250 MHz Band					
Low Channel 36, 5180 MHz		8.751	5.2	14	24 Pass
High Channel 48, 5240 MHz		8.554	5.2	13.8	24 Pass
5250 - 5350 MHz Band					
Low Channel 52, 5260 MHz		6.449	5.3	11.8	24 Pass
High Channel 64, 5320 MHz		6.394	5.3	11.7	24 Pass
5470 - 5725 MHz Band					
Low Channel 100, 5500 MHz		5.811	5.2	11.1	24 Pass
Mid Channel 120, 5600 MHz		7.122	5.3	12.4	24 Pass
High Channel 140, 5700 MHz		4.842	5.3	10.1	24 Pass
802.11(n) MCS0					
5150 - 5250 MHz Band					
Low Channel 36, 5180 MHz		13.073	1.2	14.2	24 Pass
High Channel 48, 5240 MHz		13.035	1.2	14.2	24 Pass
5250 - 5350 MHz Band					
Low Channel 52, 5260 MHz		10.189	1.2	11.4	24 Pass
High Channel 64, 5320 MHz		10.072	1.2	11.2	24 Pass
5470 - 5725 MHz Band					
Low Channel 100, 5500 MHz		10.763	1.2	11.9	24 Pass
Mid Channel 120, 5600 MHz		13.693	1.2	14.9	24 Pass
High Channel 140, 5700 MHz		8.286	1.2	9.5	24 Pass
802.11(n) MCS7					
5150 - 5250 MHz Band					
Low Channel 36, 5180 MHz		7.84	5.5	13.3	24 Pass
High Channel 48, 5240 MHz		6.742	5.5	12.2	24 Pass
5250 - 5350 MHz Band					
Low Channel 52, 5260 MHz		6.571	5.5	12	24 Pass
High Channel 64, 5320 MHz		6.381	5.5	11.8	24 Pass
5470 - 5725 MHz Band					
Low Channel 100, 5500 MHz		4.896	5.5	10.4	24 Pass
Mid Channel 120, 5600 MHz		4.998	5.5	10.5	24 Pass
High Channel 140, 5700 MHz		4.679	5.5	10.2	24 Pass
Ant 2					
802.11(a) 6 Mbps					
5150 - 5250 MHz Band					
Low Channel 36, 5180 MHz		12.469	1.1	13.6	24 Pass
High Channel 48, 5240 MHz		12.712	1.1	13.8	24 Pass
5250 - 5350 MHz Band					
Low Channel 52, 5260 MHz		10.157	1.1	11.3	24 Pass
High Channel 64, 5320 MHz		10.243	1.1	11.4	24 Pass
5470 - 5725 MHz Band					
Low Channel 100, 5500 MHz		12.122	1.1	13.2	24 Pass
Mid Channel 120, 5600 MHz		14.519	1.1	15.6	24 Pass
High Channel 140, 5700 MHz		9.049	1.1	10.1	24 Pass
802.11(a) 36 Mbps					
5150 - 5250 MHz Band					
Low Channel 36, 5180 MHz		10.047	4.2	14.3	24 Pass
High Channel 48, 5240 MHz		10.333	4.2	14.6	24 Pass

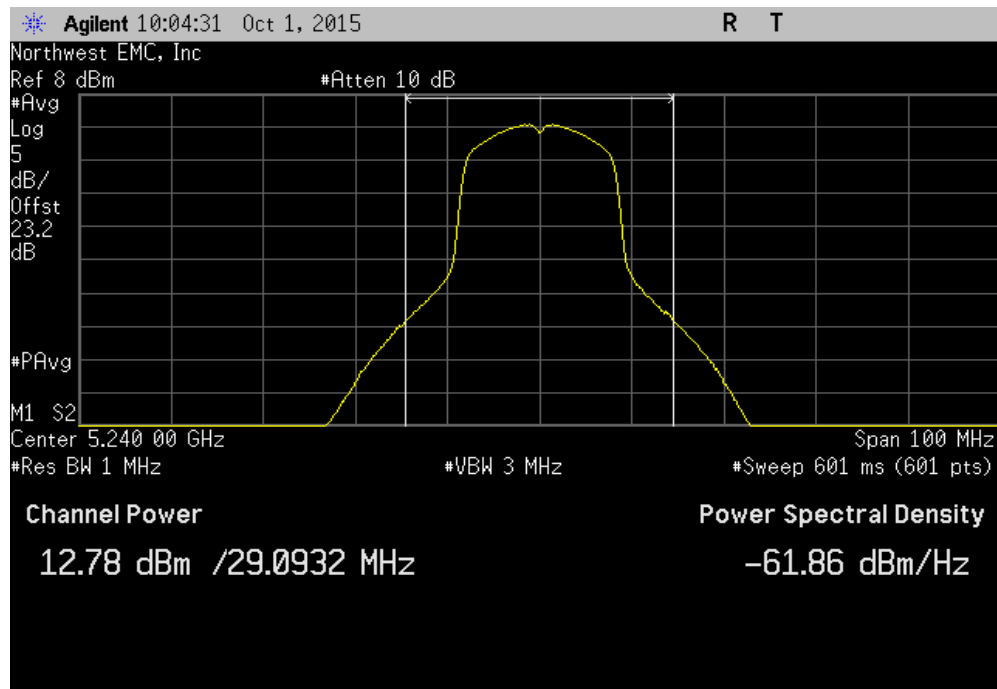
5250 - 5350 MHz Band						
	Low Channel 52, 5260 MHz	7.622	4.2	11.8	24	Pass
	High Channel 64, 5320 MHz	7.652	4.2	11.8	24	Pass
5470 - 5725 MHz Band						
	Low Channel 100, 5500 MHz	9.538	4.2	13.8	24	Pass
	Mid Channel 120, 5600 MHz	10.056	4.2	14.2	24	Pass
	High Channel 140, 5700 MHz	6.453	4.2	10.6	24	Pass
802.11(a) 54 Mbps						
5150 - 5250 MHz Band						
	Low Channel 36, 5180 MHz	8.202	5.3	13.5	24	Pass
	High Channel 48, 5240 MHz	8.311	5.2	13.6	24	Pass
5250 - 5350 MHz Band						
	Low Channel 52, 5260 MHz	6.549	5.2	11.8	24	Pass
	High Channel 64, 5320 MHz	6.762	5.2	12	24	Pass
5470 - 5725 MHz Band						
	Low Channel 100, 5500 MHz	6.968	5.2	12.2	24	Pass
	Mid Channel 120, 5600 MHz	7.284	5.3	12.6	24	Pass
	High Channel 140, 5700 MHz	5.335	5.3	10.6	24	Pass
802.11(n) MCS0						
5150 - 5250 MHz Band						
	Low Channel 36, 5180 MHz	12.461	1.2	13.6	24	Pass
	High Channel 48, 5240 MHz	12.913	1.2	14.1	24	Pass
5250 - 5350 MHz Band						
	Low Channel 52, 5260 MHz	10.277	1.2	11.4	24	Pass
	High Channel 64, 5320 MHz	10.511	1.2	11.7	24	Pass
5470 - 5725 MHz Band						
	Low Channel 100, 5500 MHz	12.147	1.2	13.3	24	Pass
	Mid Channel 120, 5600 MHz	14.377	1.2	15.6	24	Pass
	High Channel 140, 5700 MHz	9.414	1.2	10.6	24	Pass
802.11(n) MCS7						
5150 - 5250 MHz Band						
	Low Channel 36, 5180 MHz	7.385	5.5	12.9	24	Pass
	High Channel 48, 5240 MHz	7.648	5.5	13.1	24	Pass
5250 - 5350 MHz Band						
	Low Channel 52, 5260 MHz	6.552	5.5	12	24	Pass
	High Channel 64, 5320 MHz	6.465	5.5	12	24	Pass
5470 - 5725 MHz Band						
	Low Channel 100, 5500 MHz	5.939	5.5	11.4	24	Pass
	Mid Channel 120, 5600 MHz	5.206	5.5	10.7	24	Pass
	High Channel 140, 5700 MHz	5.227	5.5	10.8	24	Pass

MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
12.684	1.1	13.8	24	Pass		

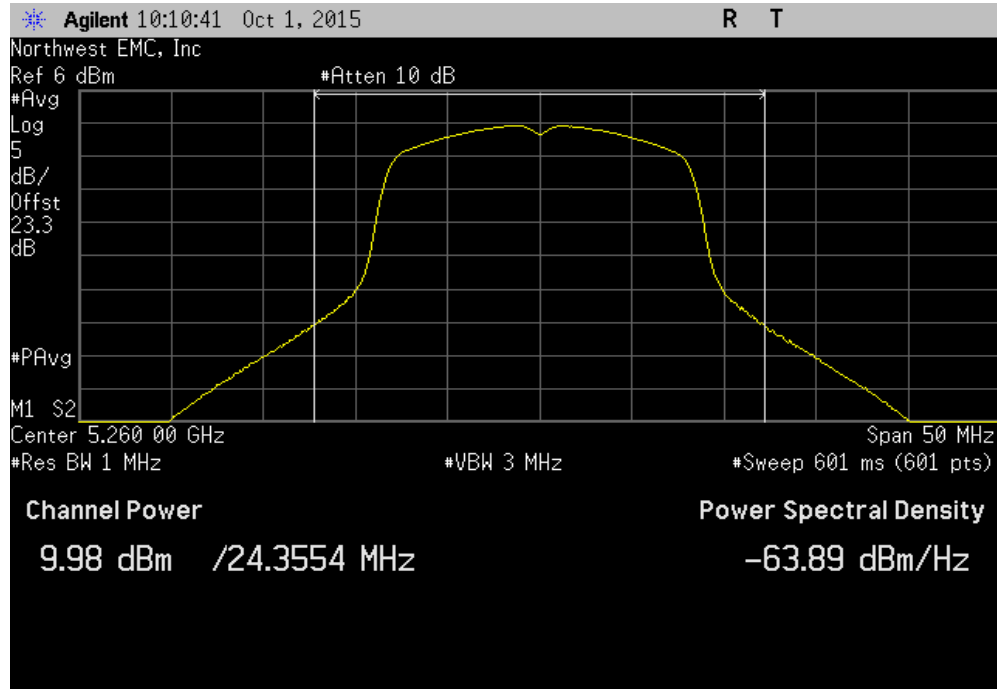


Ant 1, 802.11(a) 6 Mbps, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
12.775	1.1	13.9	24	Pass		

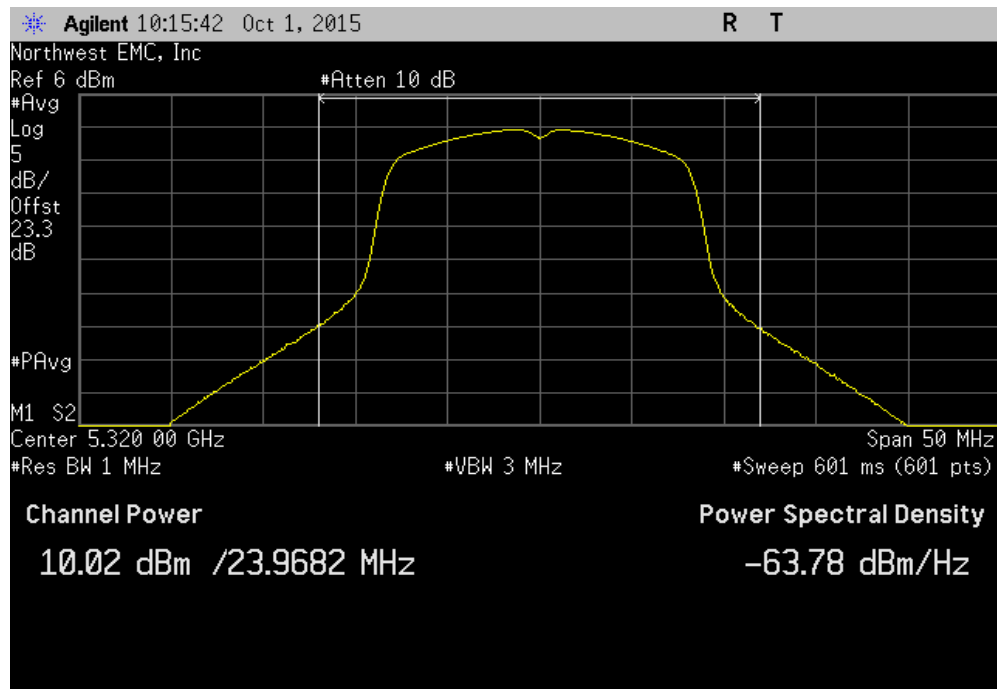


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
9.979	1.1	11.1	24	Pass		

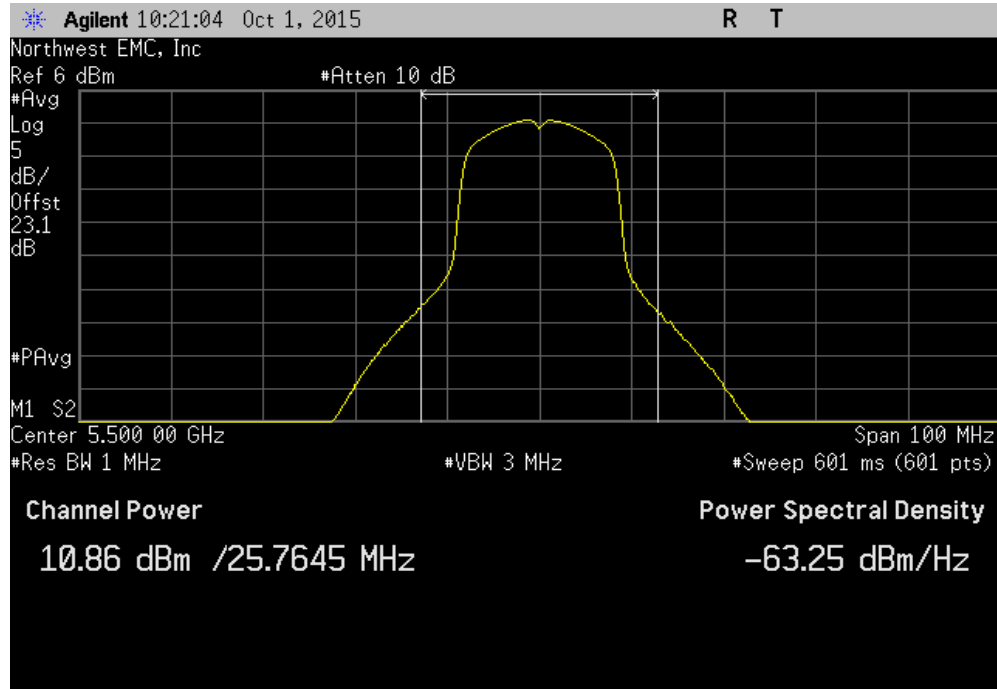


Ant 1, 802.11(a) 6 Mbps, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
10.016	1.1	11.1	24	Pass		

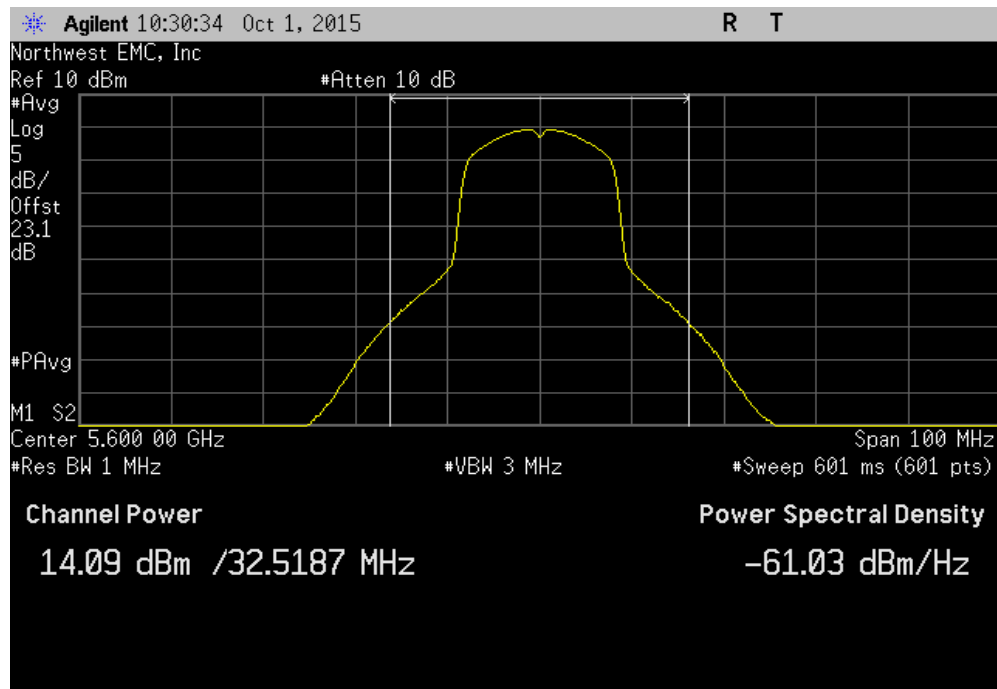


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
10.859	1.1	12	24	Pass		

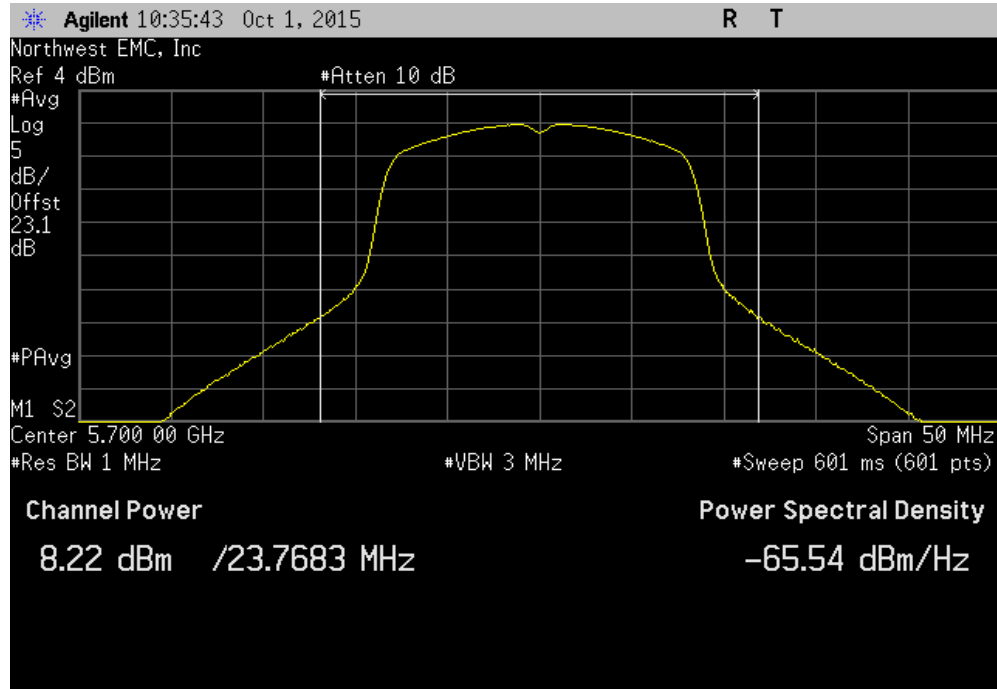


Ant 1, 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
14.087	1.1	15.2	24	Pass		

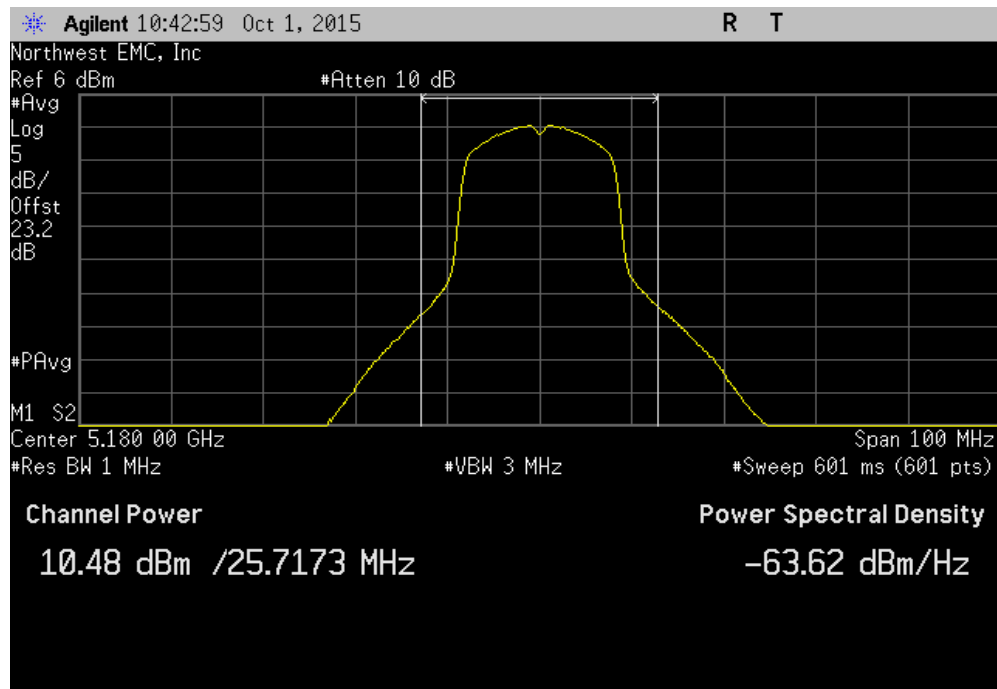


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
8.218	1.1	9.3	24	Pass		

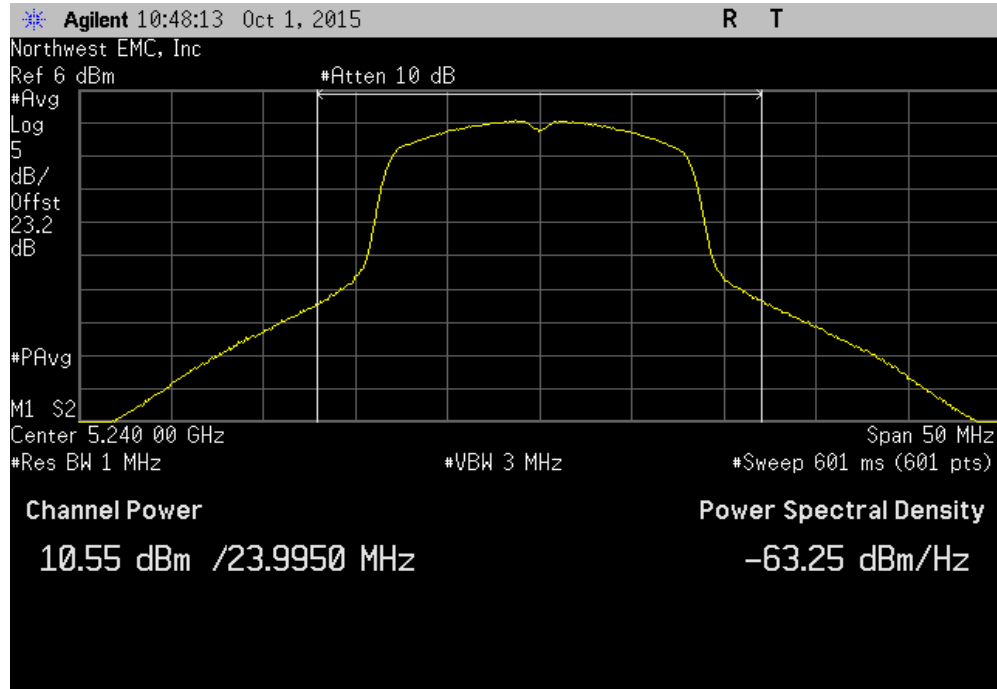


Ant 1, 802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
10.482	4.2	14.7	24	Pass		

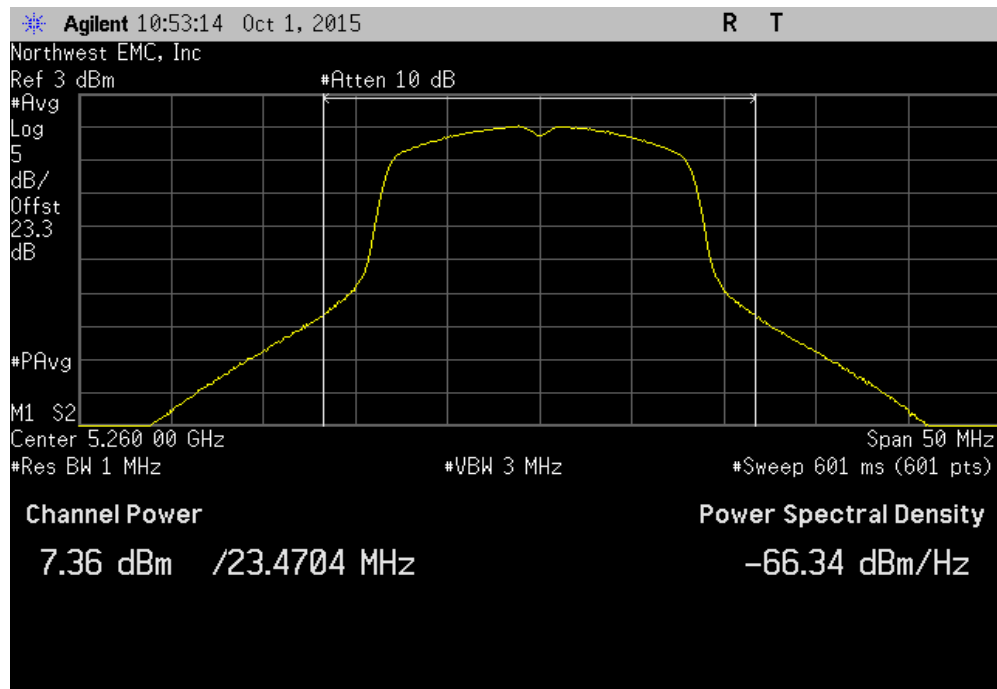


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(a) 36 Mbps, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
10.555	4.2	14.8	24	Pass		

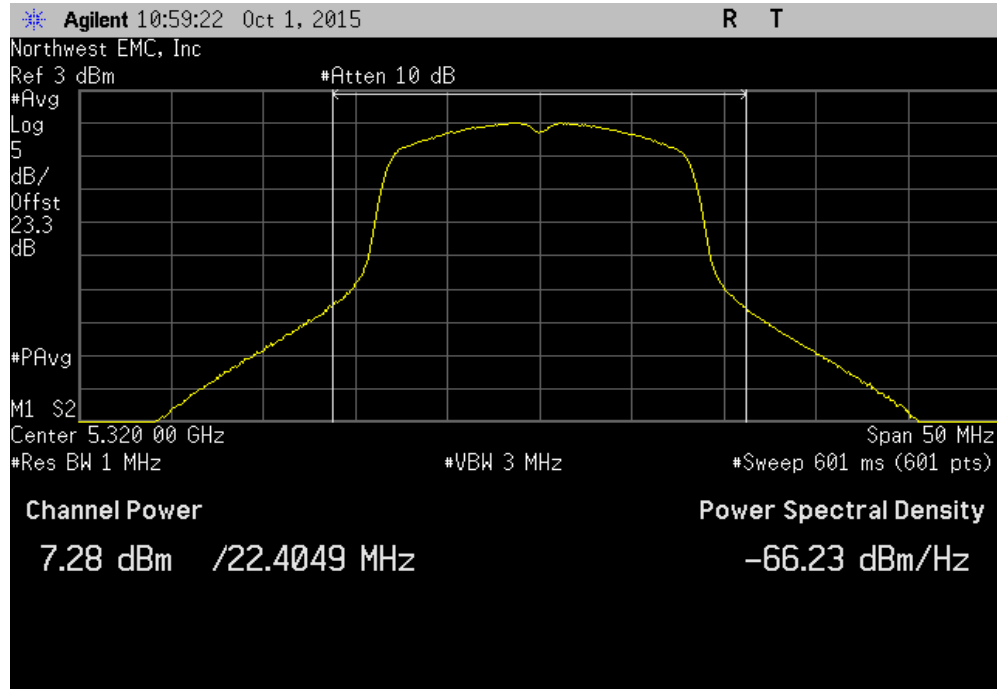


Ant 1, 802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
7.362	4.2	11.5	24	Pass		

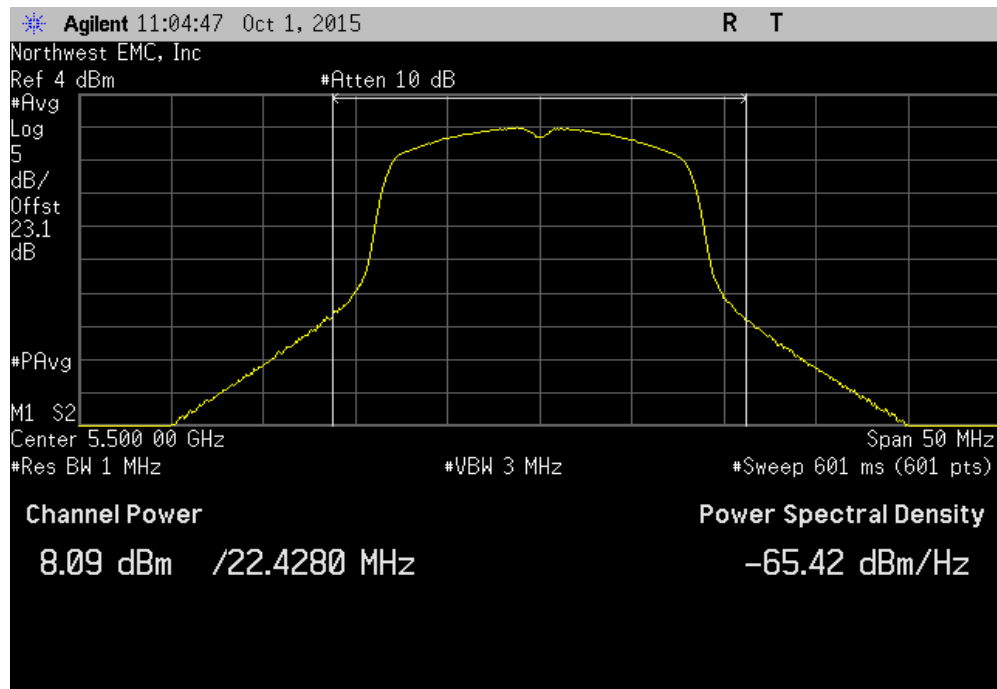


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(a) 36 Mbps, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
7.277	4.2	11.5	24	Pass		

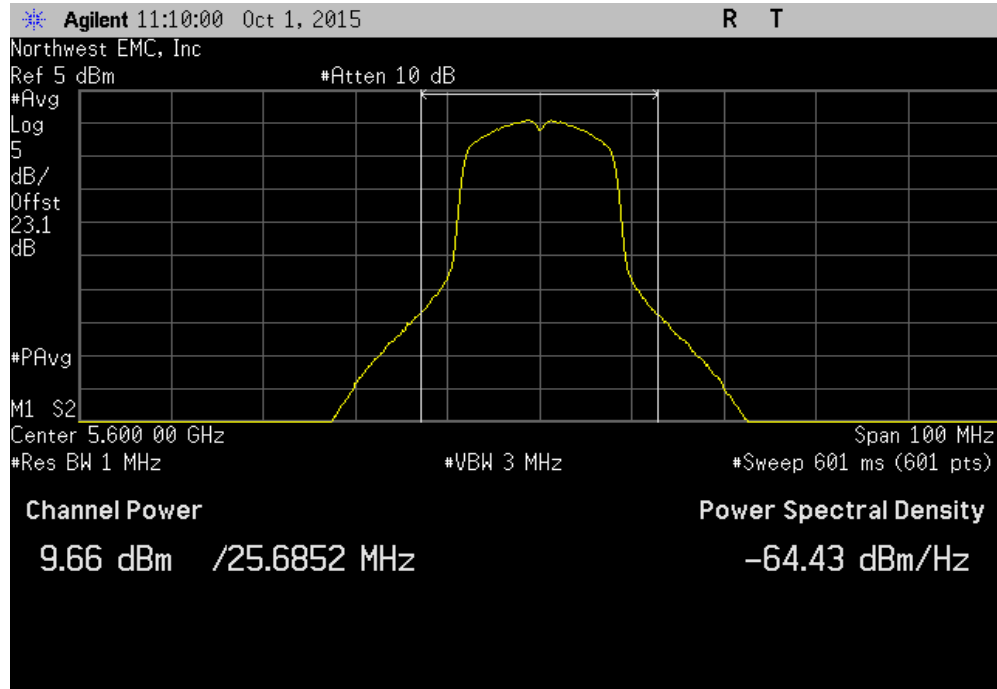


Ant 1, 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
8.091	4.2	12.3	24	Pass		

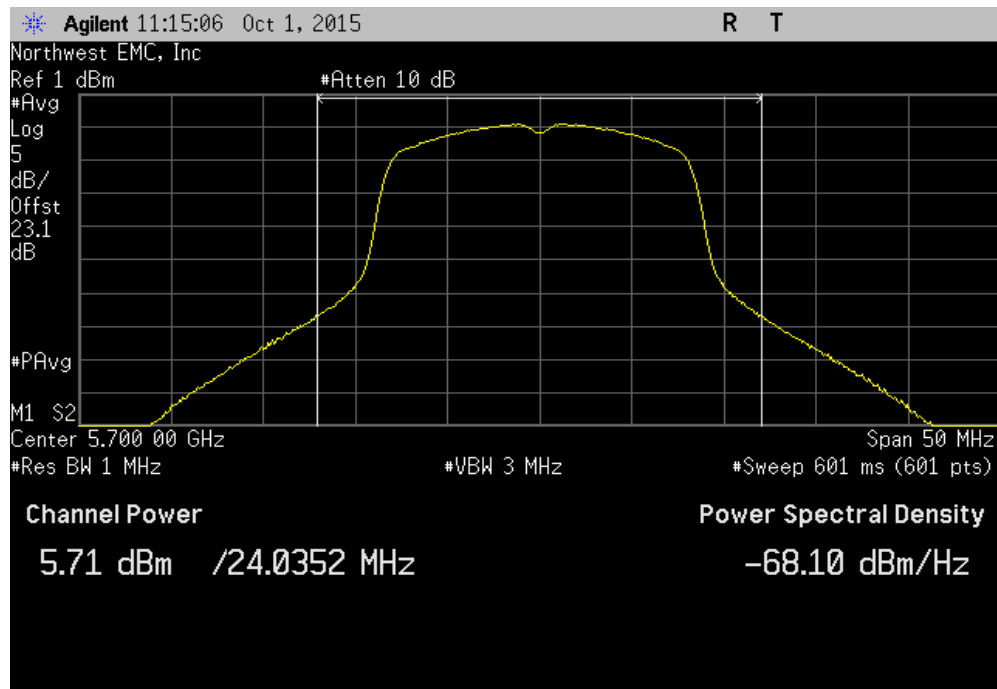


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
9.663	4.2	13.9	24	Pass		

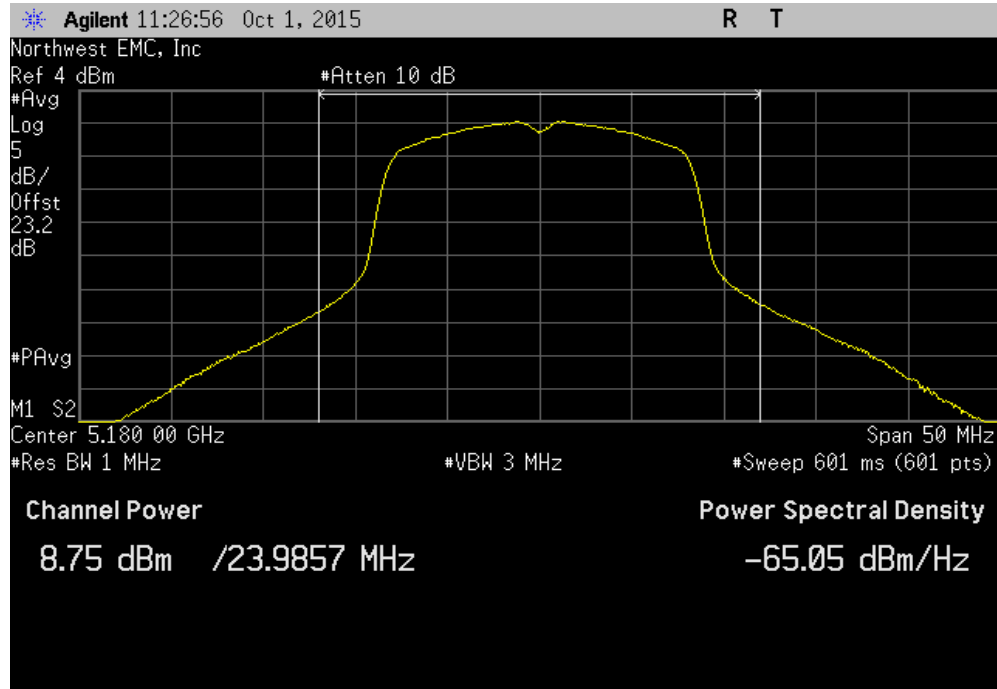


Ant 1, 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
5.705	4.2	9.9	24	Pass		

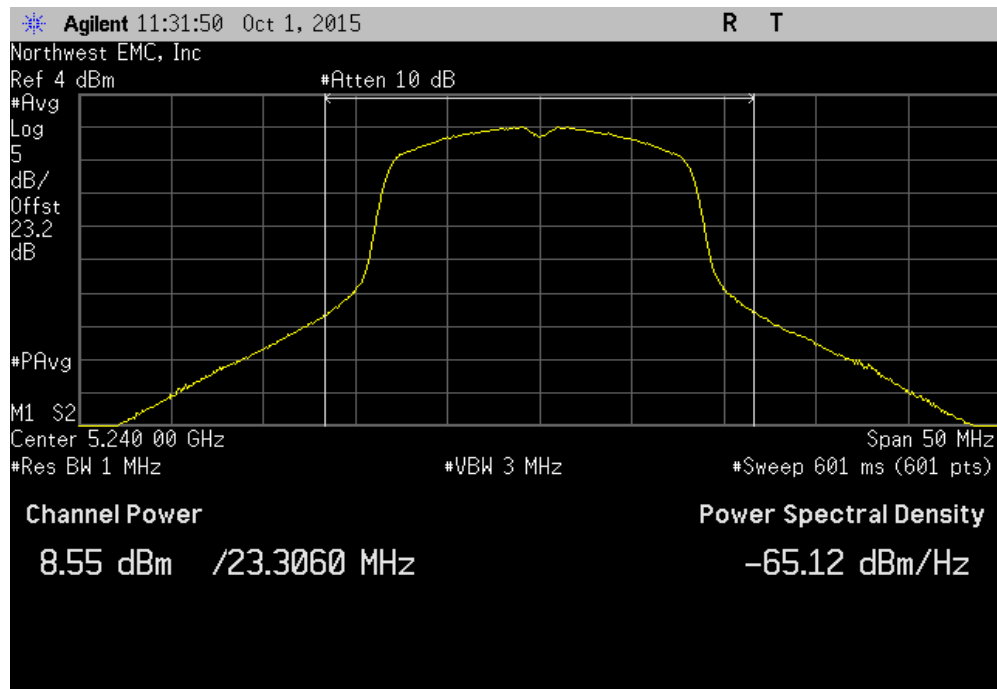


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
8.751	5.2	14	24	Pass		

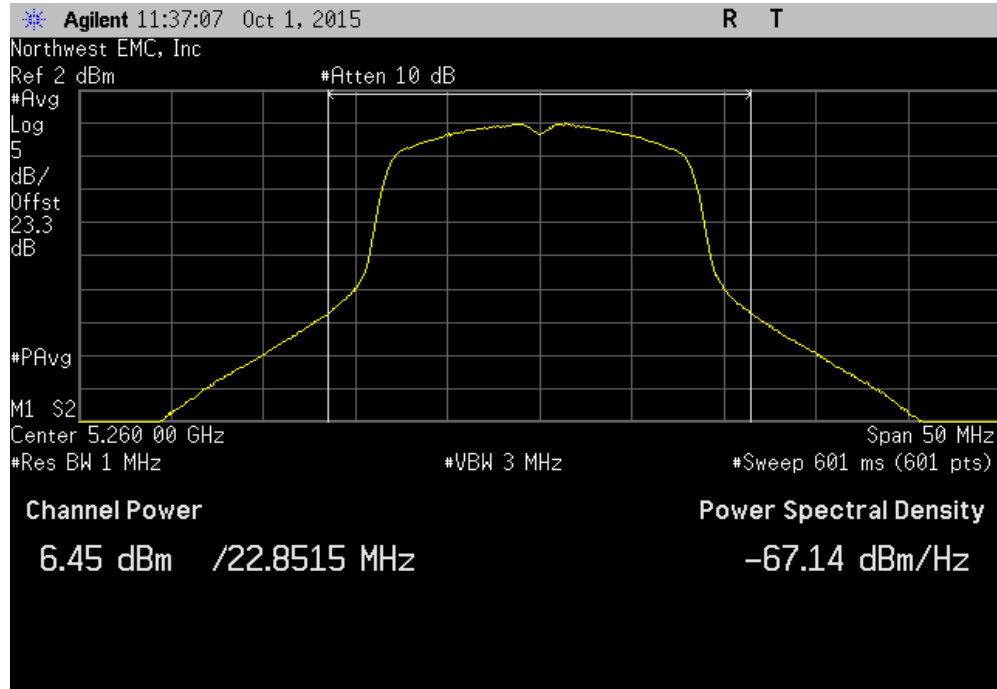


Ant 1, 802.11(a) 54 Mbps, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
8.554	5.2	13.8	24	Pass		

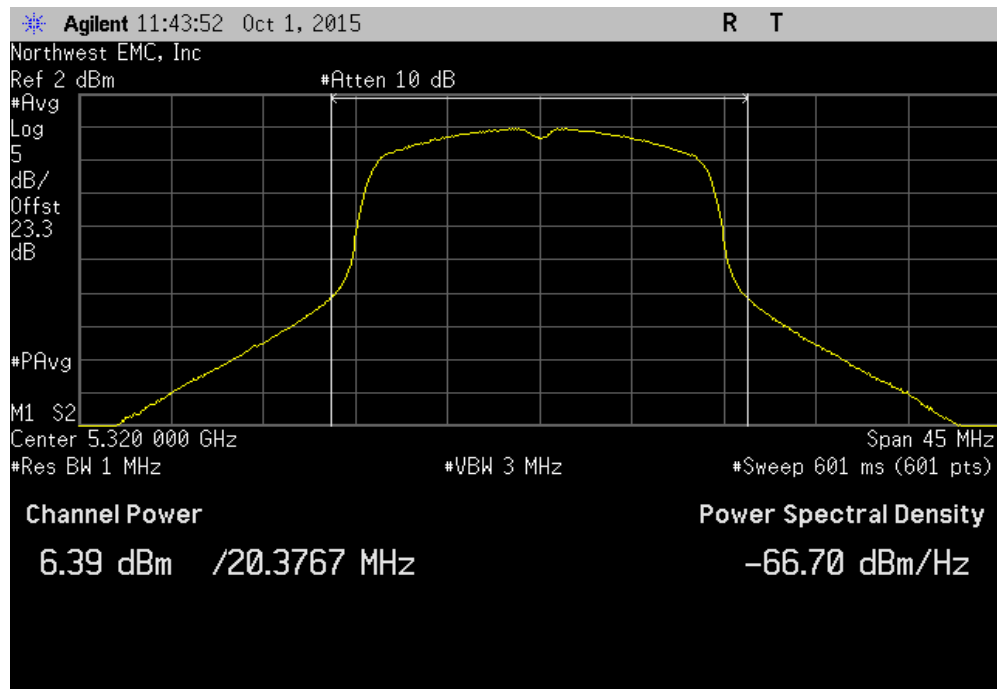


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
6.449	5.3	11.8	24	Pass		

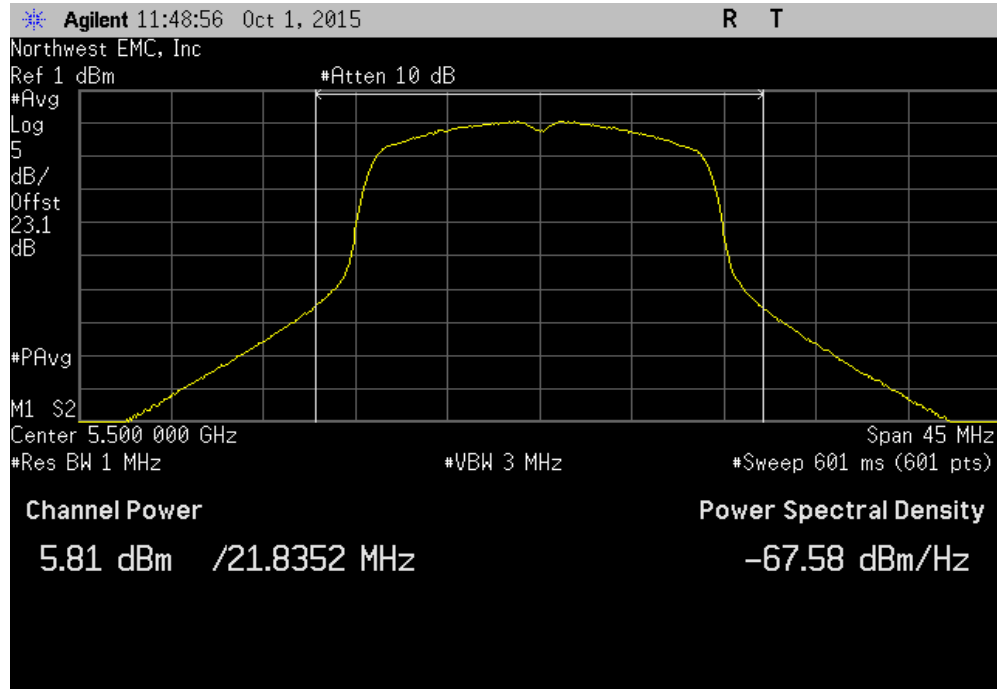


Ant 1, 802.11(a) 54 Mbps, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
6.394	5.3	11.7	24	Pass		

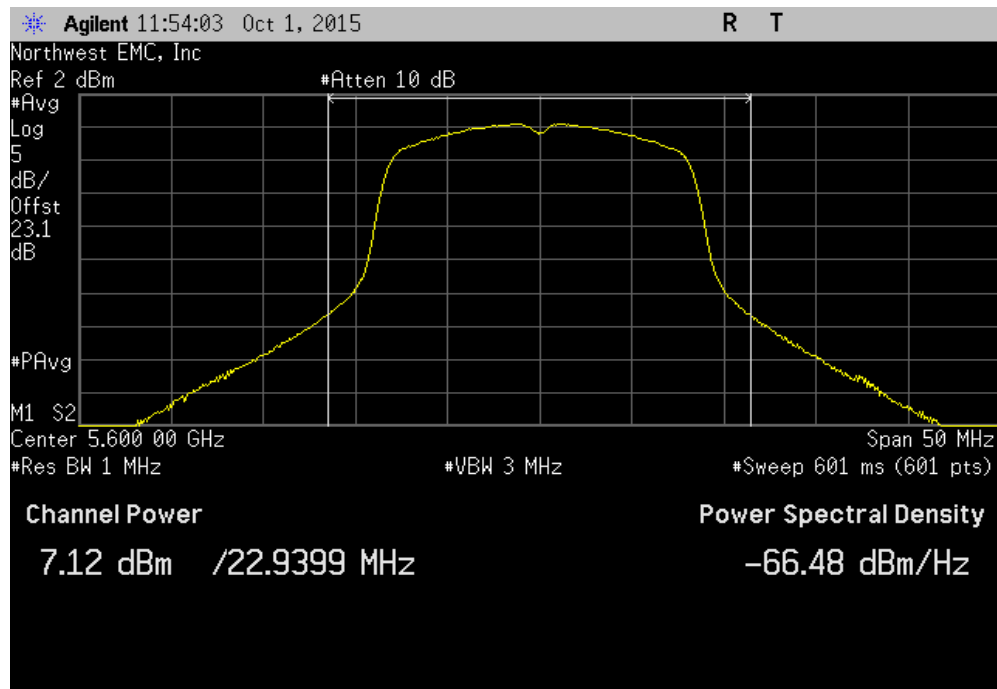


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
5.811	5.2	11.1	24	Pass		

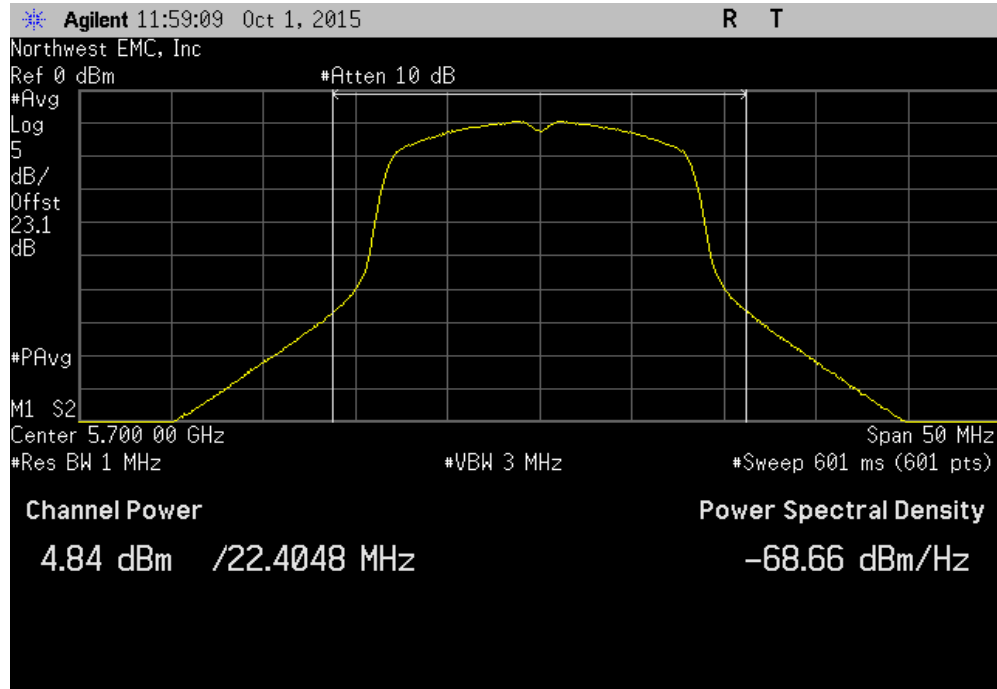


Ant 1, 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
7.122	5.3	12.4	24	Pass		

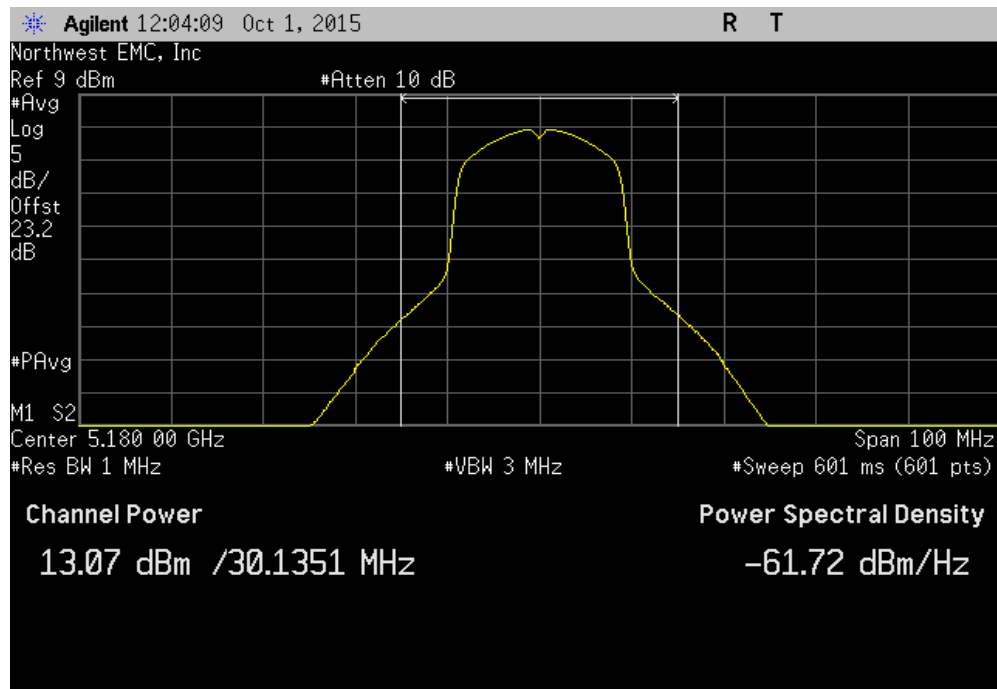


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
4.842	5.3	10.1	24	Pass		

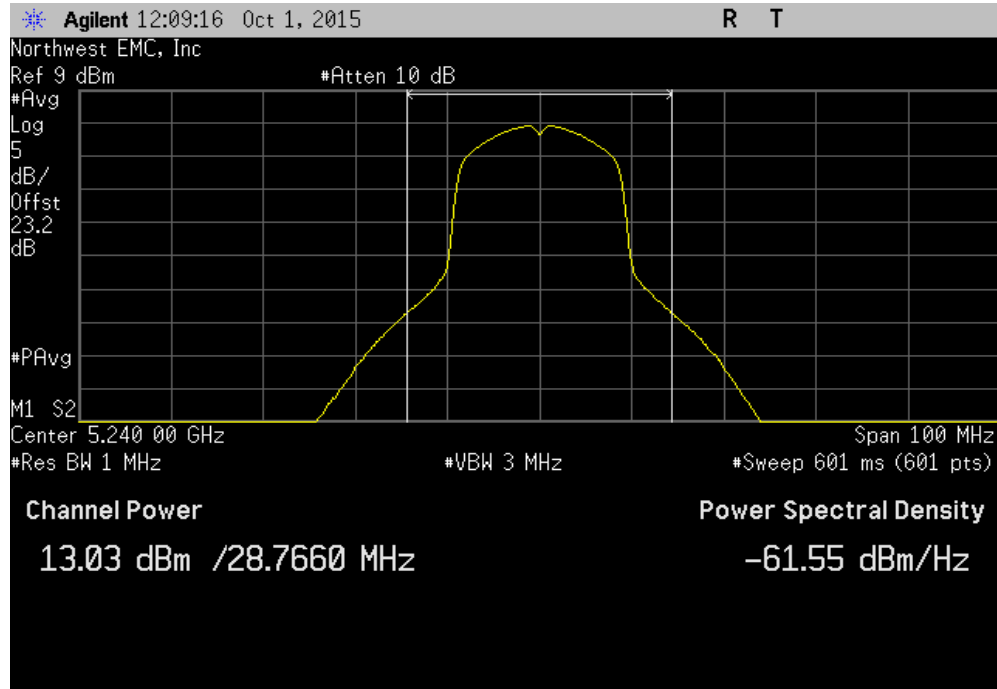


Ant 1, 802.11(n) MCS0, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
13.073	1.2	14.2	24	Pass		

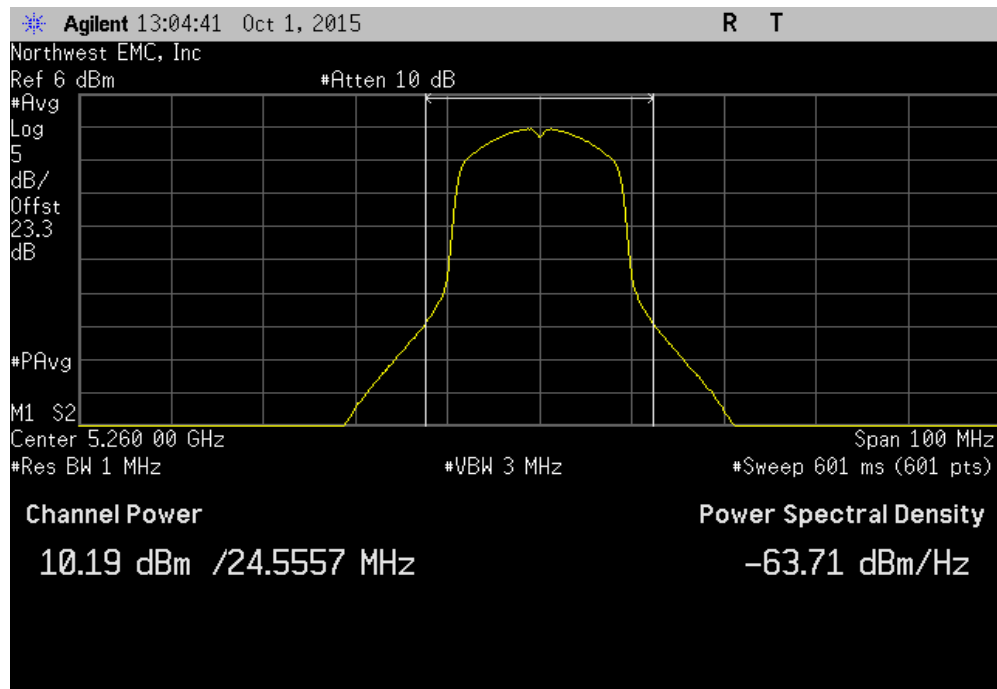


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(n) MCS0, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
13.035	1.2	14.2	24	Pass		

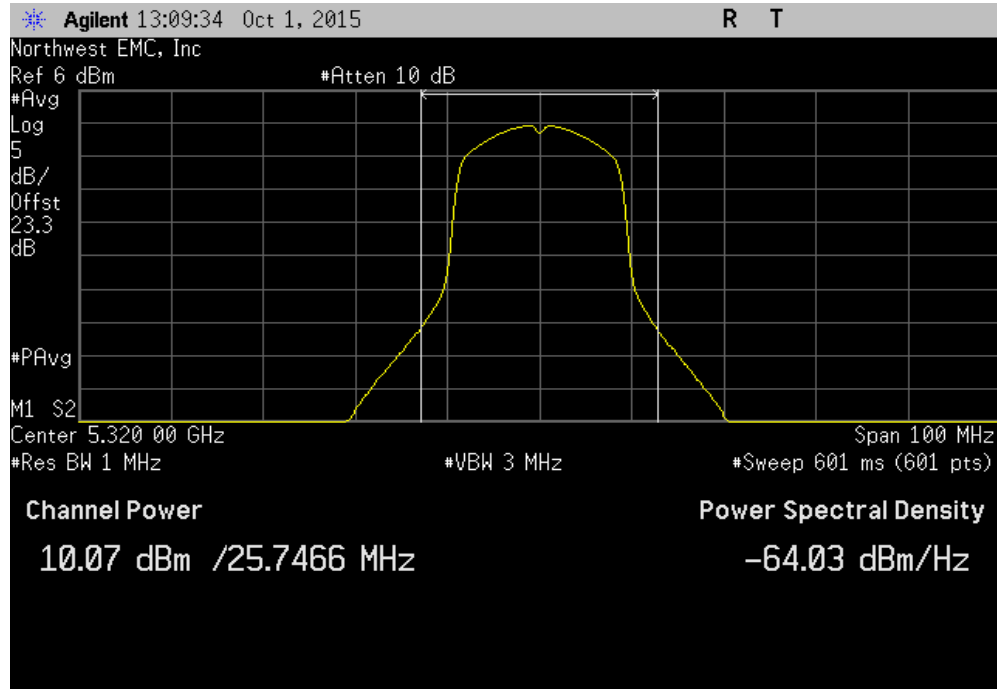


Ant 1, 802.11(n) MCS0, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
10.189	1.2	11.4	24	Pass		

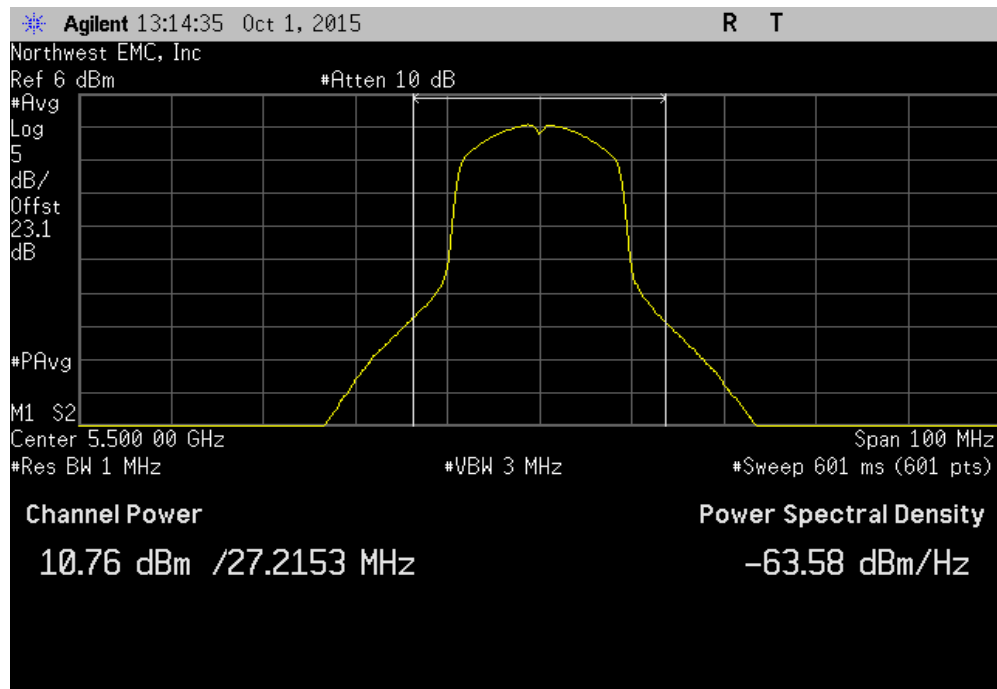


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(n) MCS0, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
10.072	1.2	11.2	24	Pass		

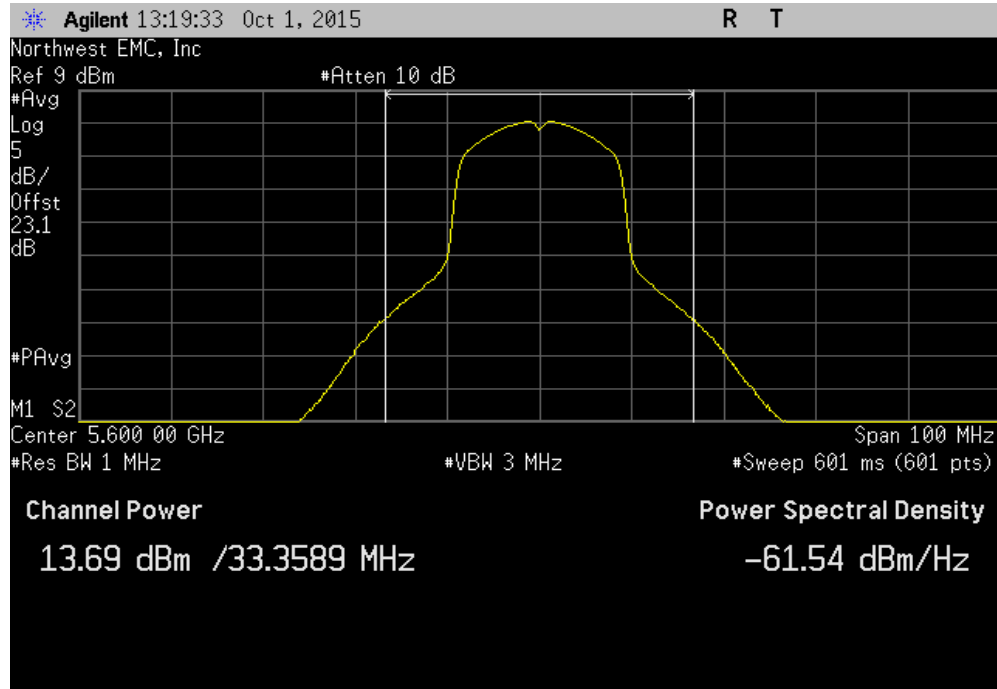


Ant 1, 802.11(n) MCS0, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
10.763	1.2	11.9	24	Pass		

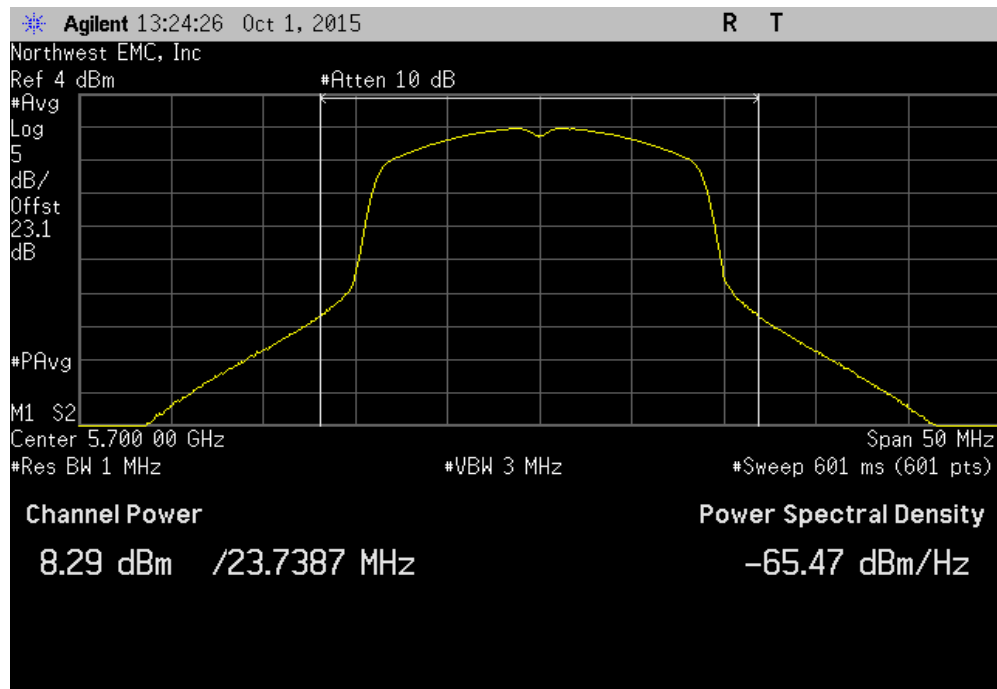


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(n) MCS0, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
13.693	1.2	14.9	24	Pass		

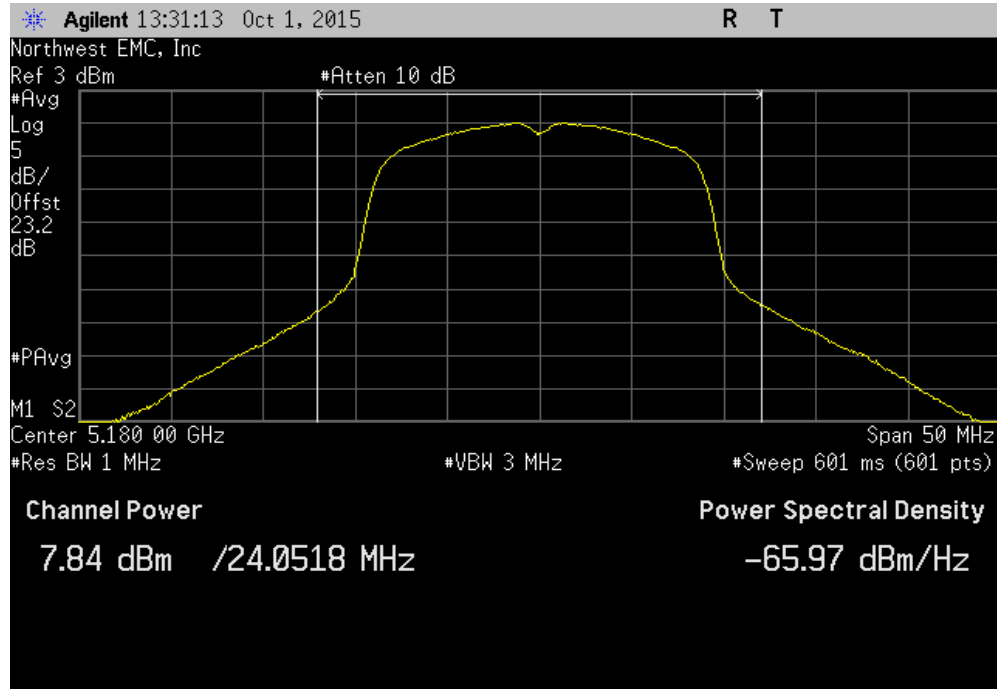


Ant 1, 802.11(n) MCS0, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
8.286	1.2	9.5	24	Pass		

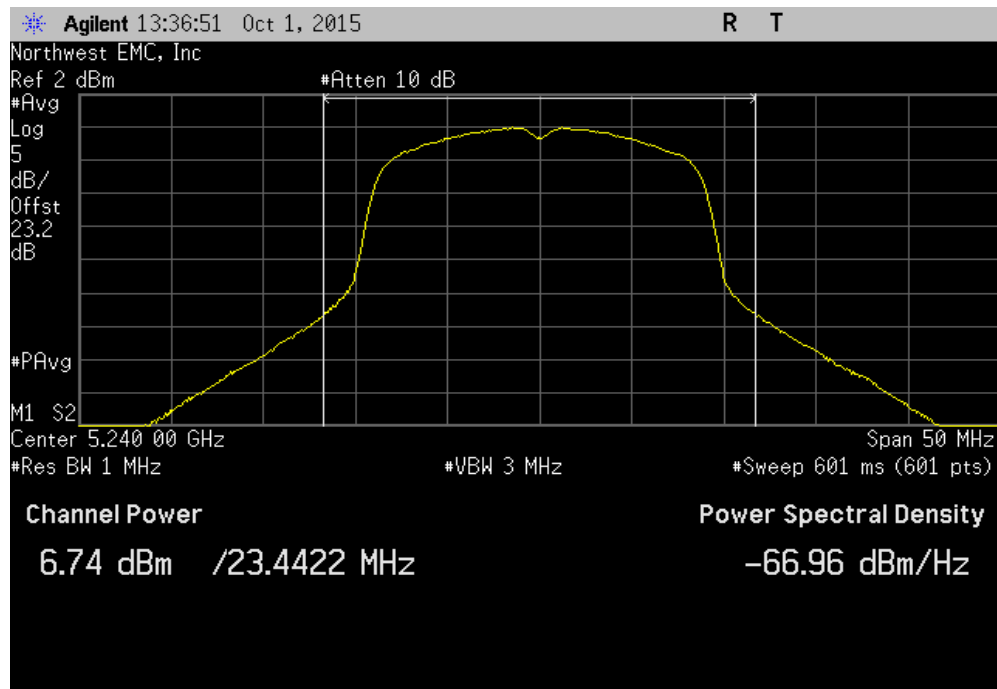


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(n) MCS7, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
7.84	5.5	13.3	24	Pass		

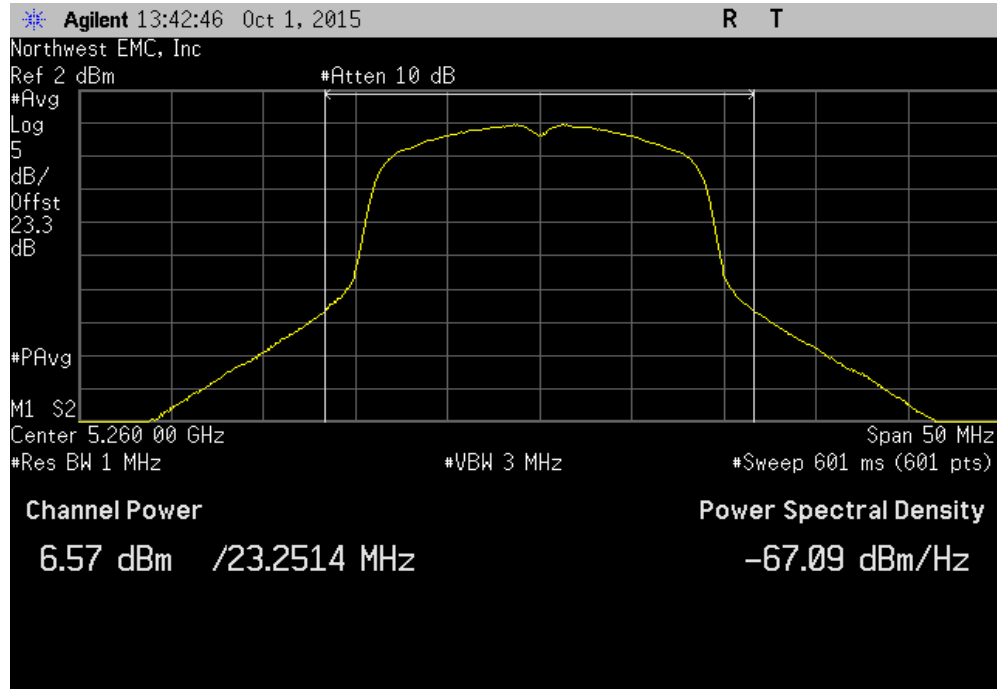


Ant 1, 802.11(n) MCS7, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
6.742	5.5	12.2	24	Pass		

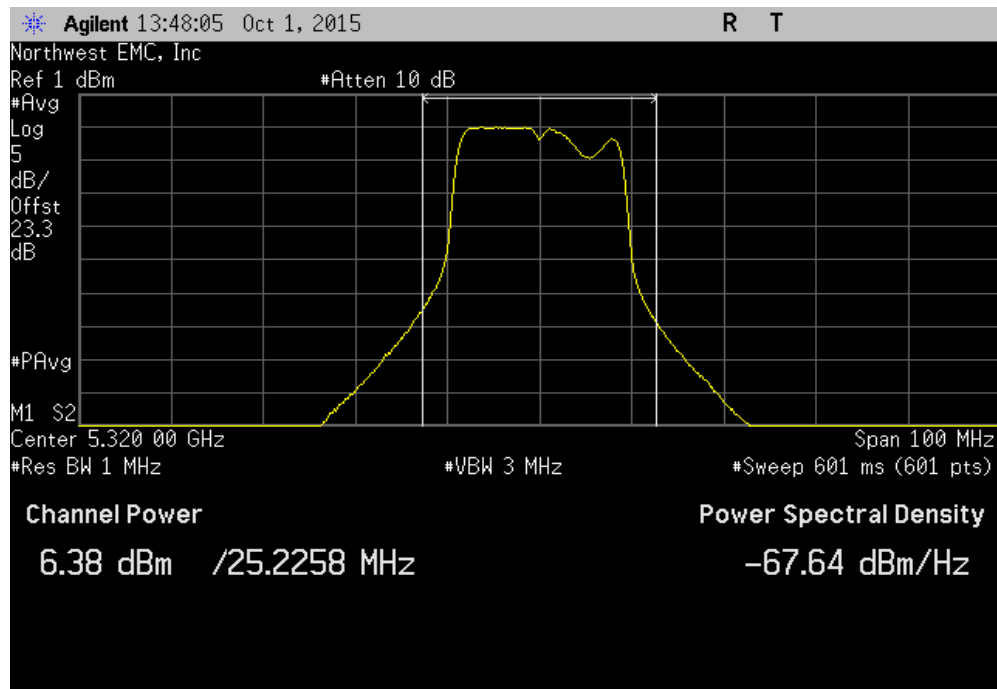


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(n) MCS7, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
6.571	5.5	12	24	Pass		

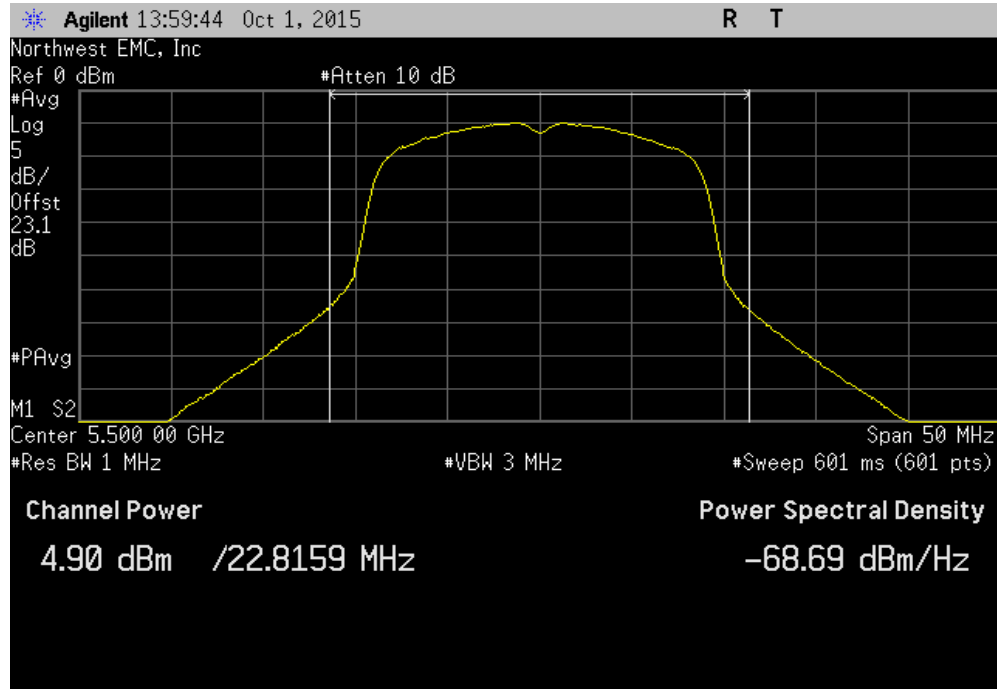


Ant 1, 802.11(n) MCS7, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
6.381	5.5	11.8	24	Pass		

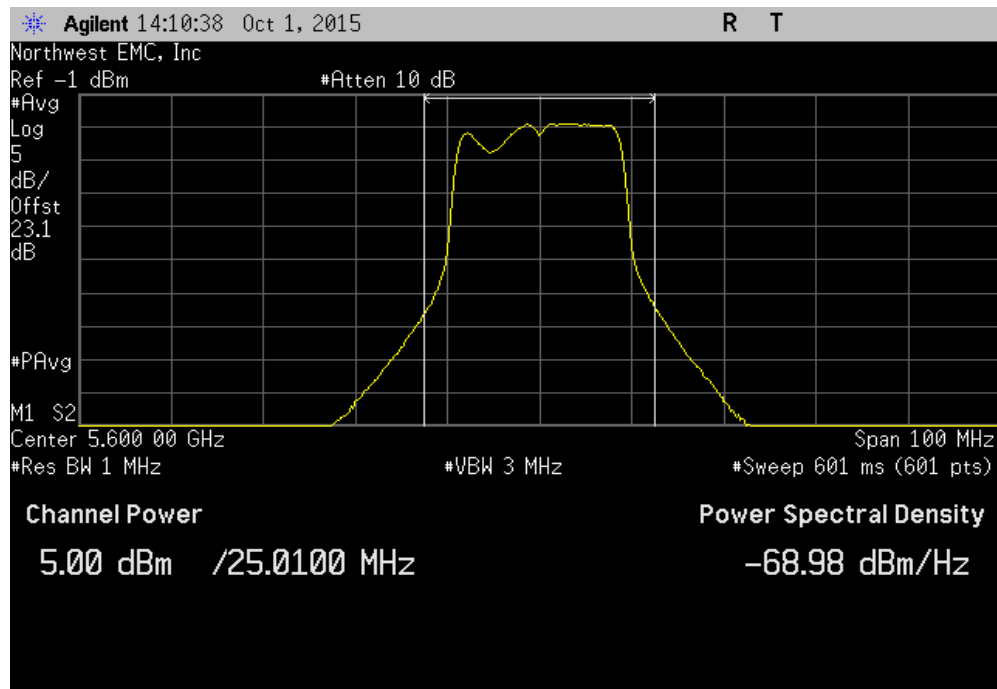


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(n) MCS7, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
4.896	5.5	10.4	24	Pass		

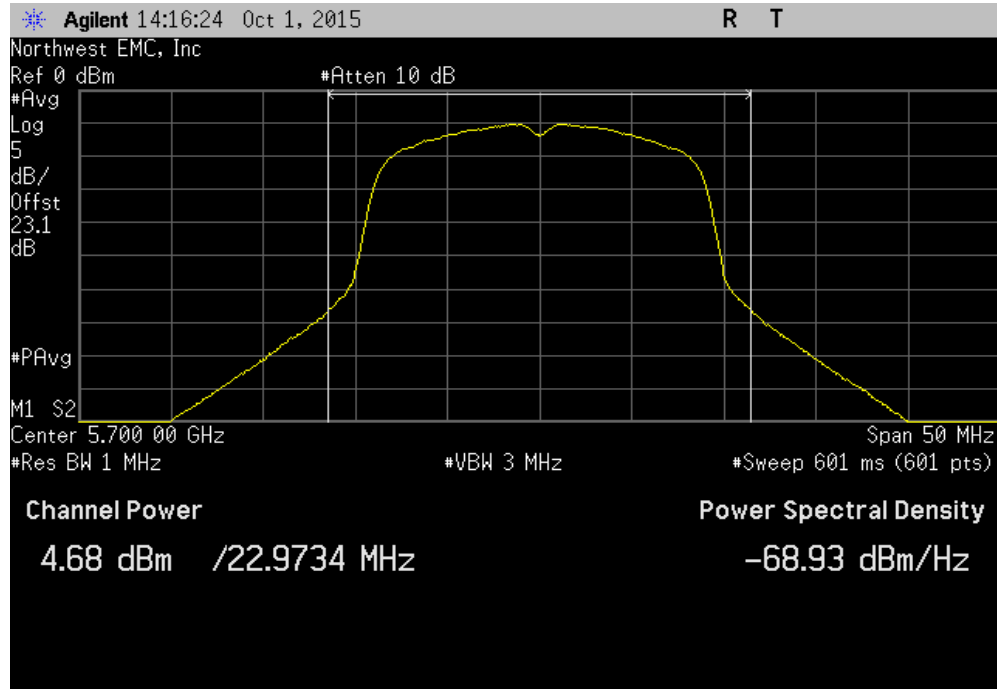


Ant 1, 802.11(n) MCS7, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
4.998	5.5	10.5	24	Pass		

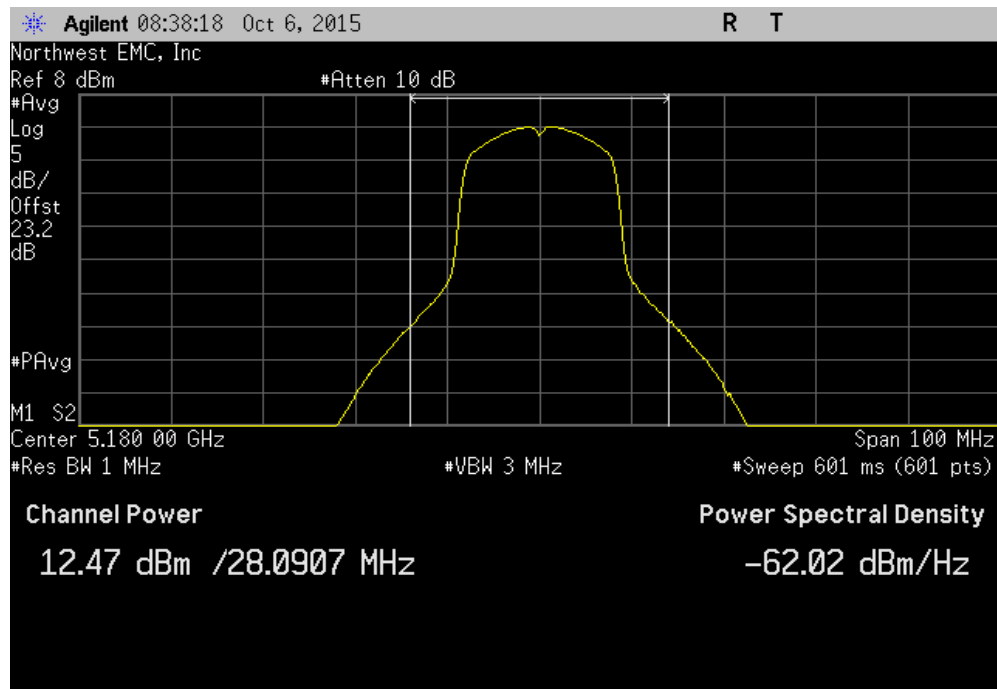


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(n) MCS7, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
4.679	5.5	10.2	24	Pass		

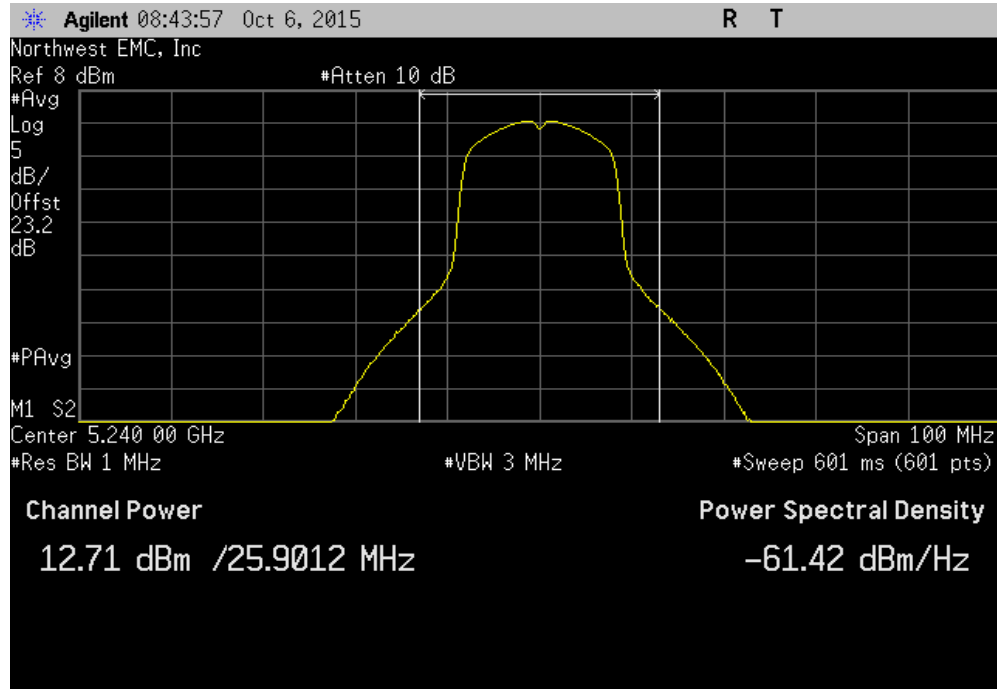


Ant 2, 802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
12.469	1.1	13.6	24	Pass		

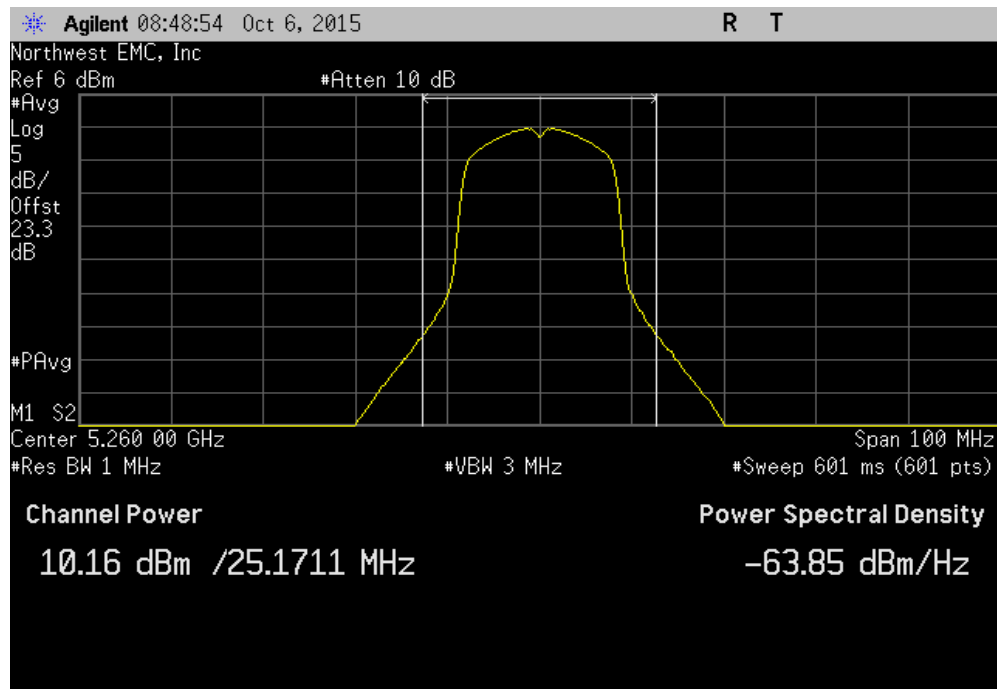


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(a) 6 Mbps, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
12.712	1.1	13.8	24	Pass		

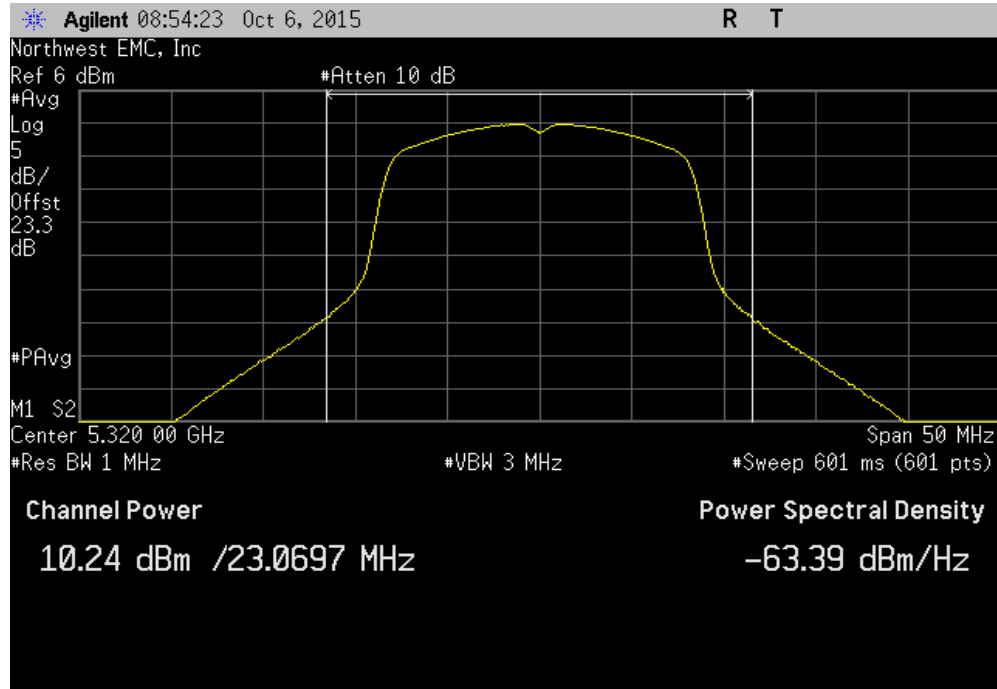


Ant 2, 802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
10.157	1.1	11.3	24	Pass		

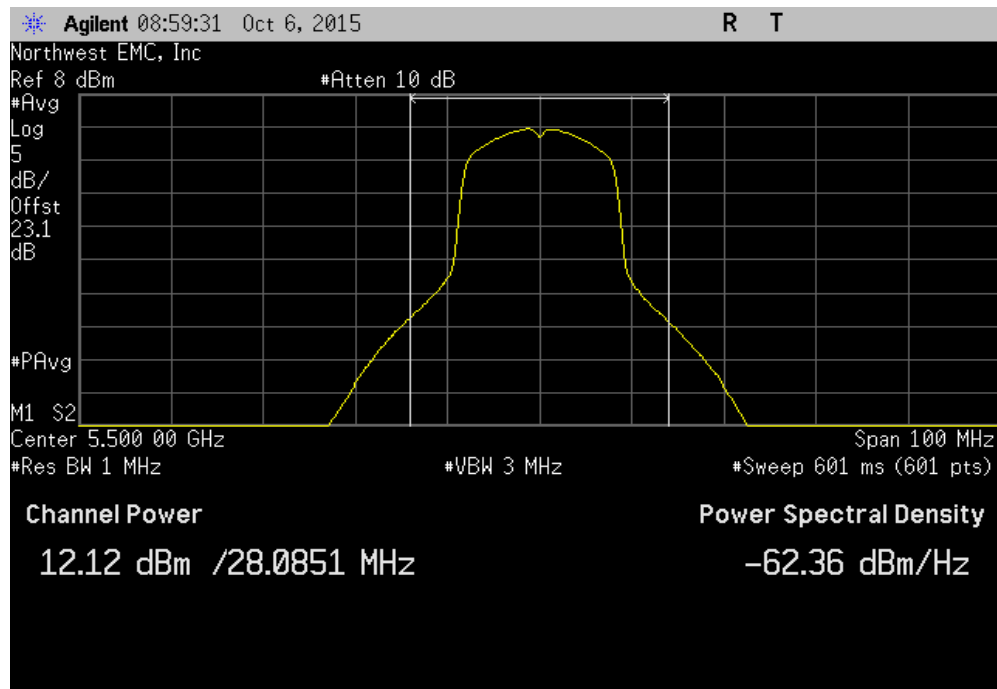


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(a) 6 Mbps, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
10.243	1.1	11.4	24	Pass		

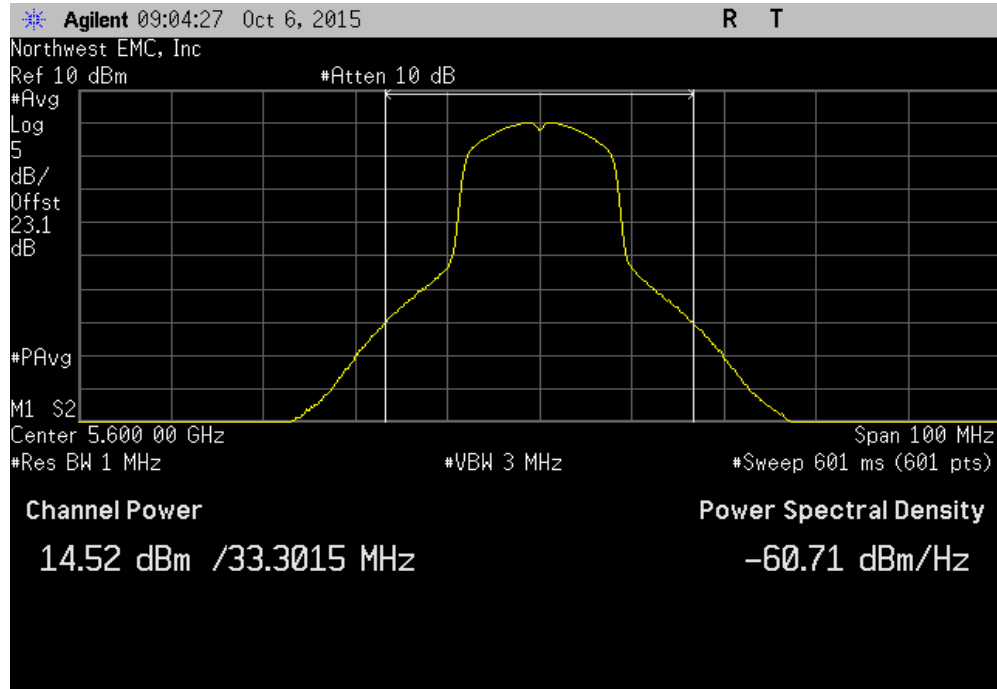


Ant 2, 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
12.122	1.1	13.2	24	Pass		

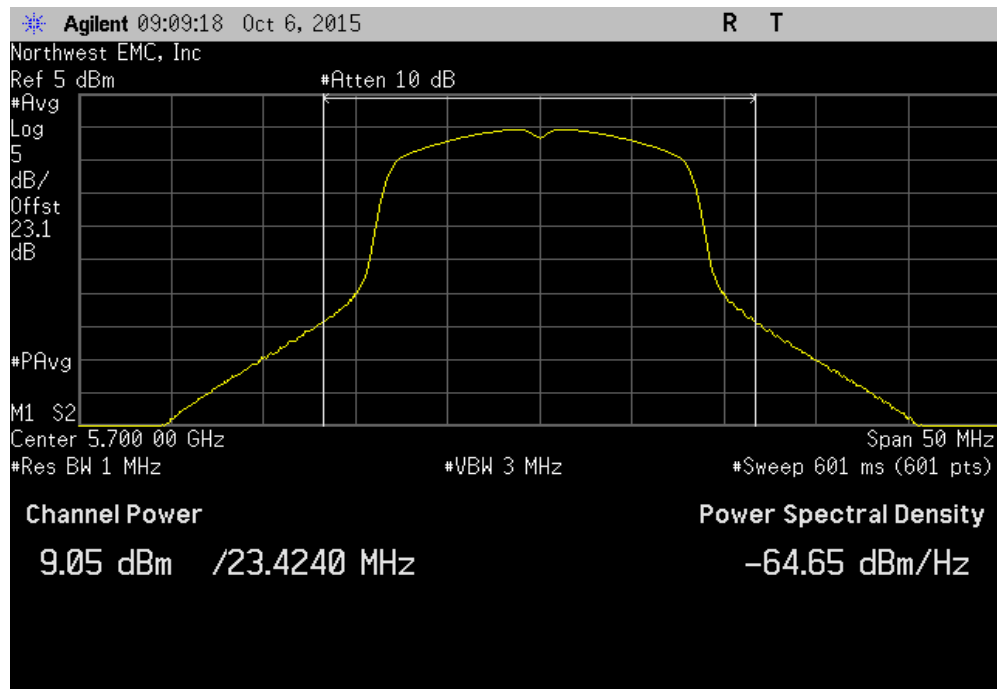


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
Avg Cond	Duty Cycle		Value	Limit	Results	
Pwr (dBm)	Factor (dB)		(dBm)	(dBm)		
14.519	1.1		15.6	24	Pass	

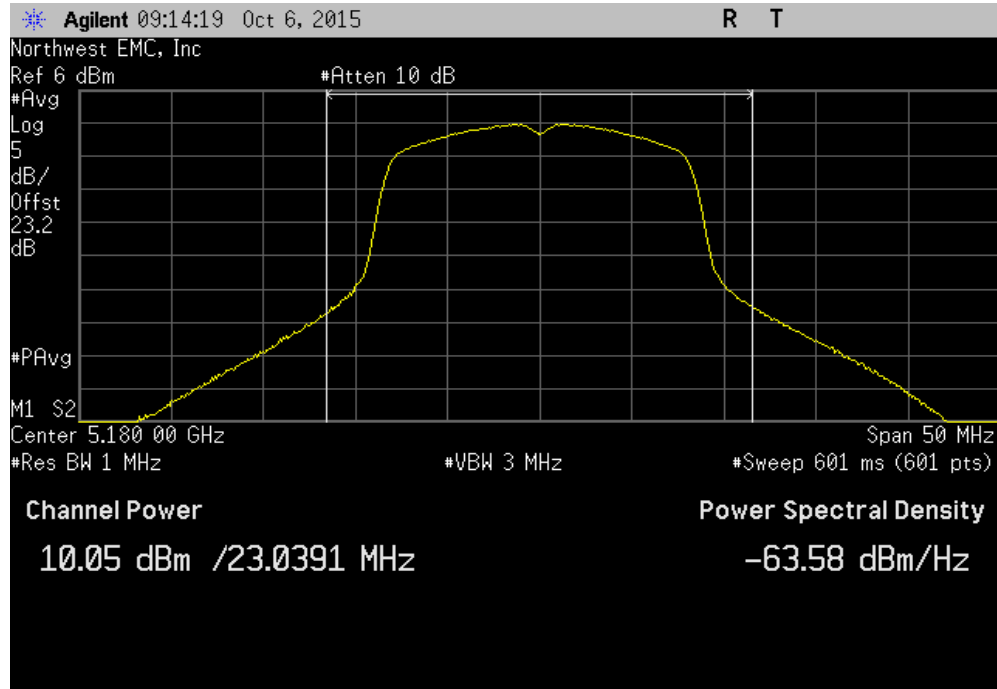


Ant 2, 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
Avg Cond	Duty Cycle		Value	Limit	Results	
Pwr (dBm)	Factor (dB)		(dBm)	(dBm)		
9.049	1.1		10.1	24	Pass	

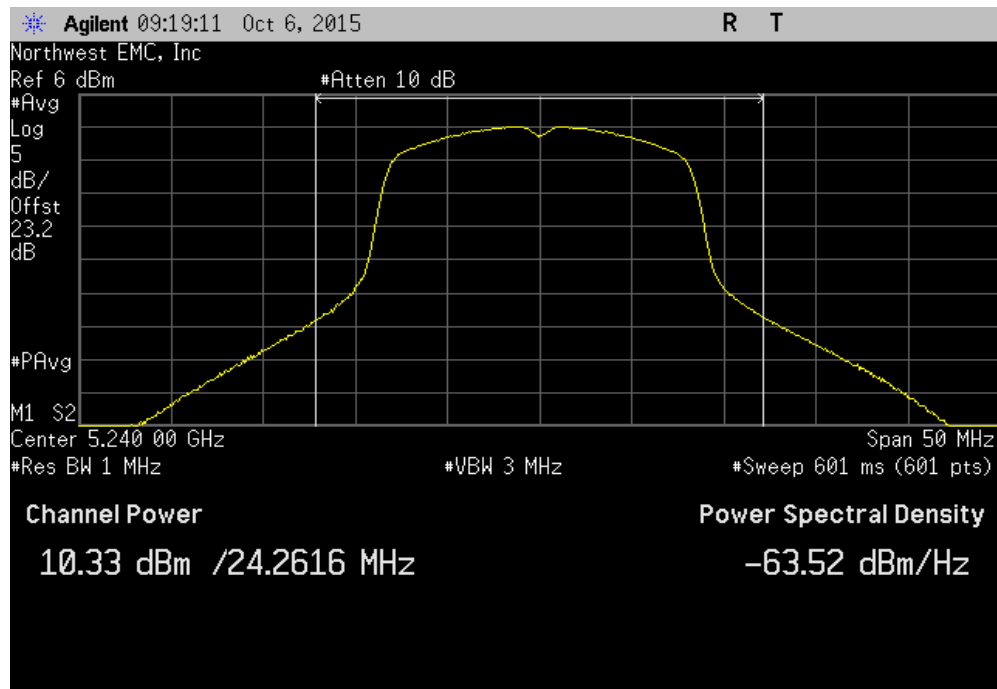


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
10.047	4.2	14.3	24	Pass		

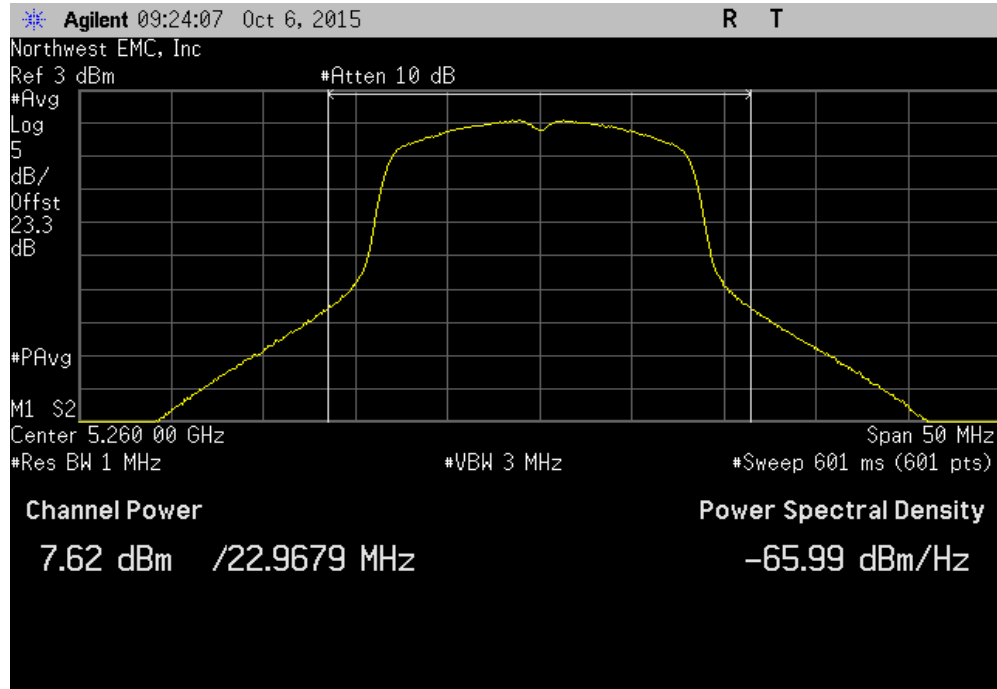


Ant 2, 802.11(a) 36 Mbps, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
10.333	4.2	14.6	24	Pass		

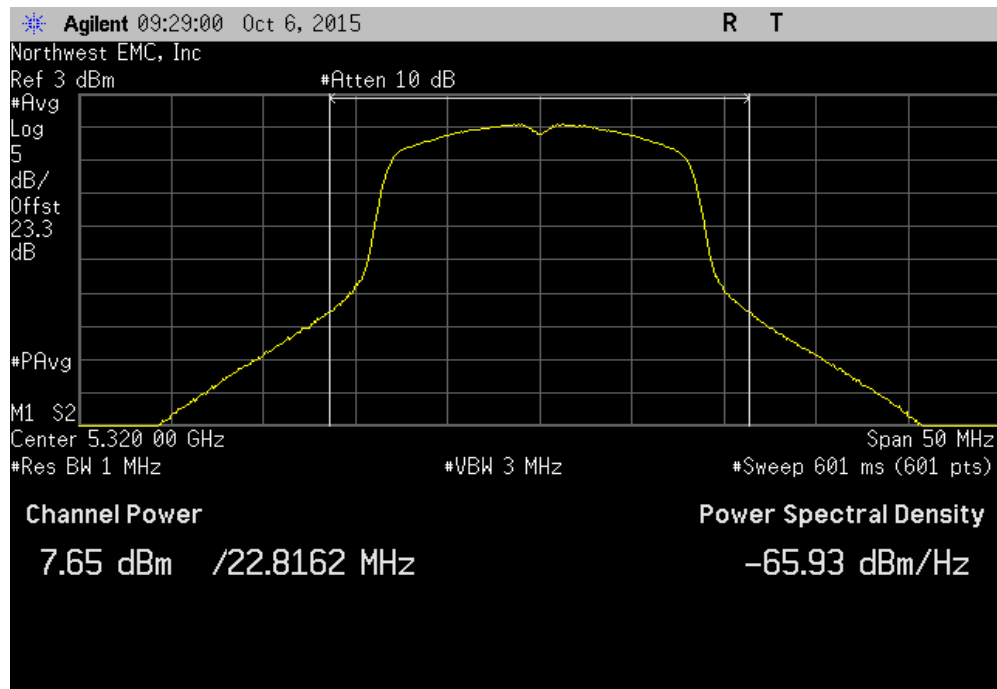


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
7.622	4.2	11.8	24	Pass		

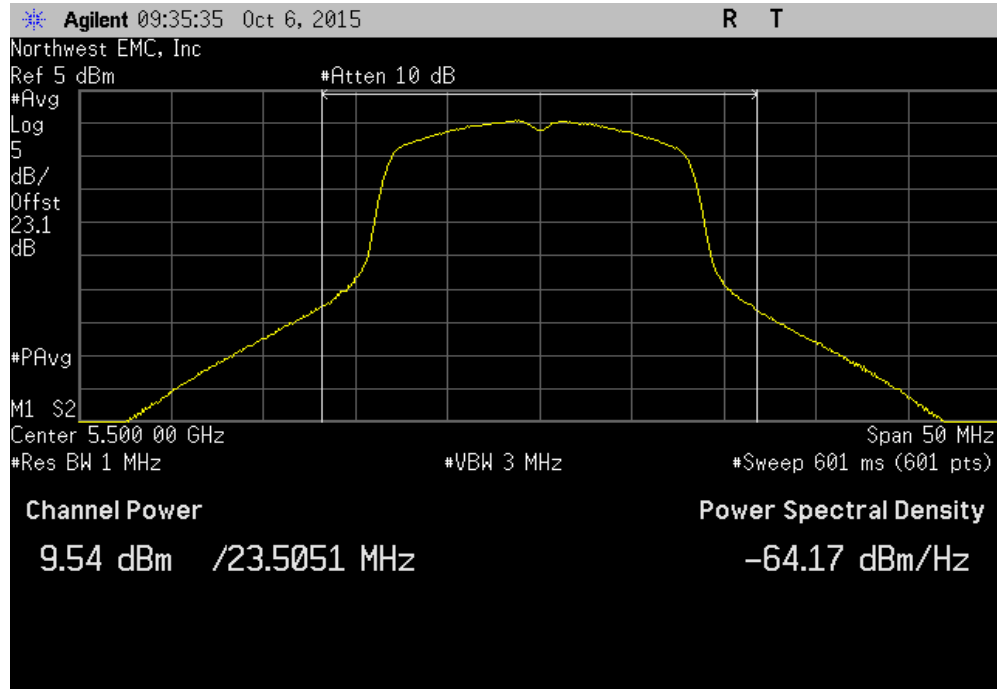


Ant 2, 802.11(a) 36 Mbps, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
7.652	4.2	11.8	24	Pass		

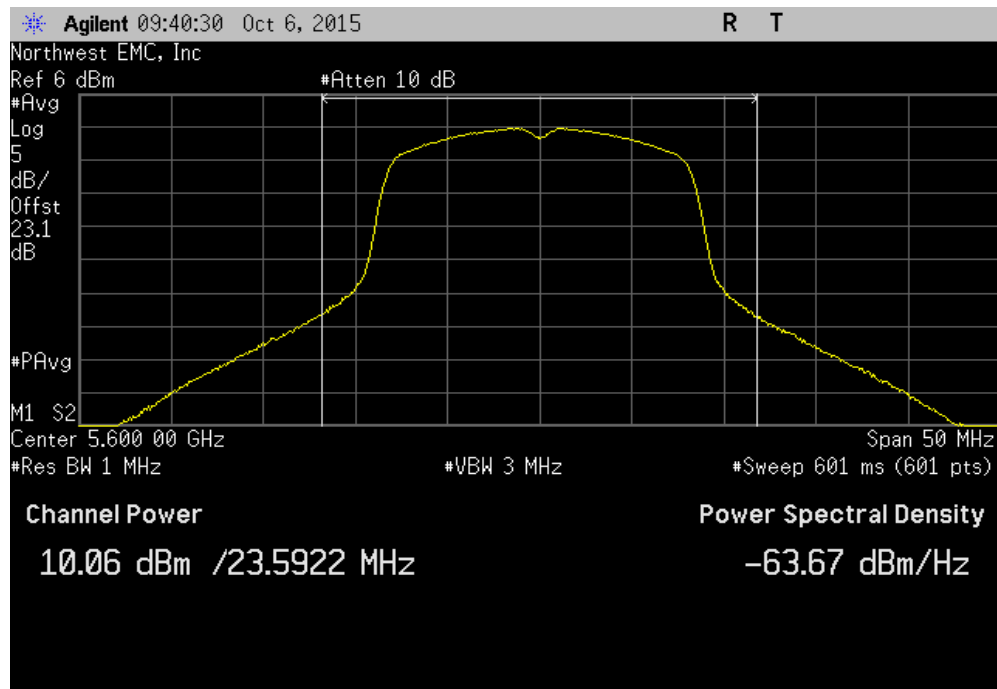


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
9.538	4.2	13.8	24	Pass		

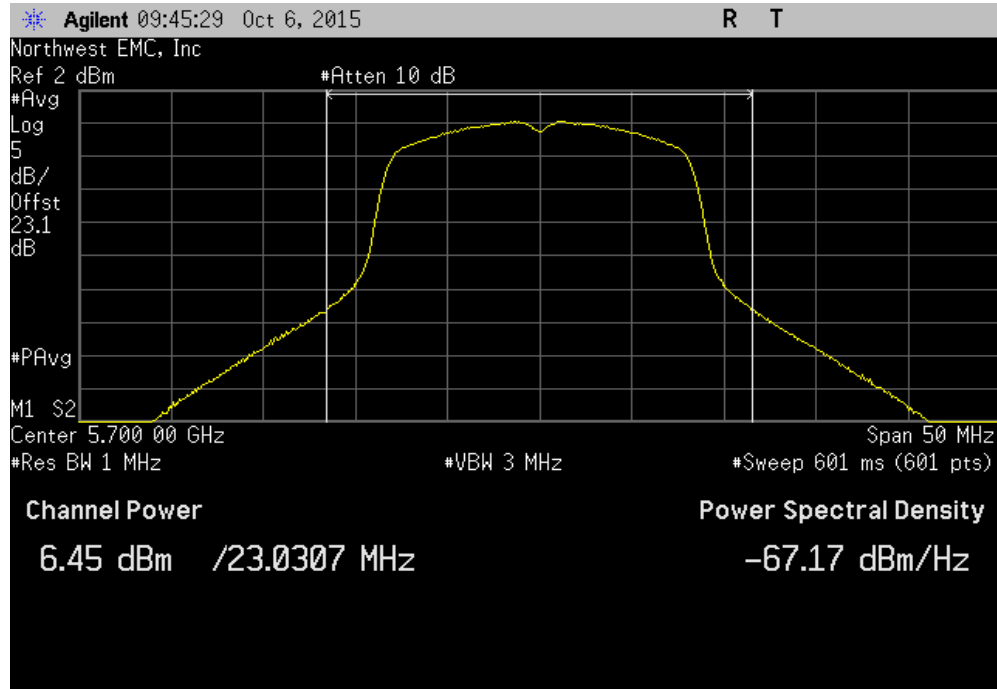


Ant 2, 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
10.056	4.2	14.2	24	Pass		

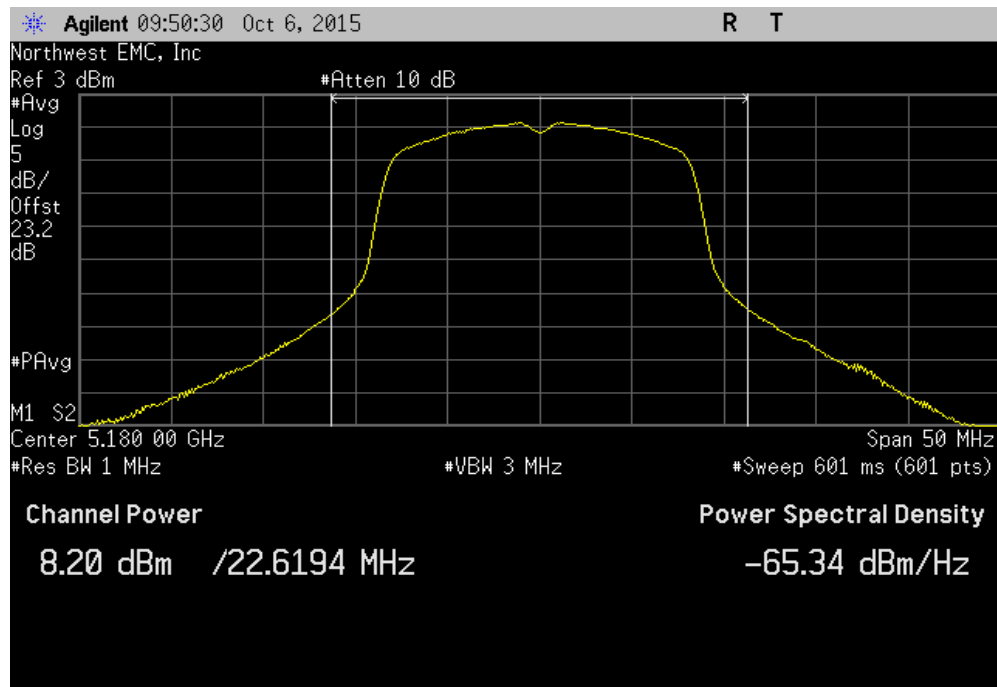


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
6.453	4.2	10.6	24	Pass		

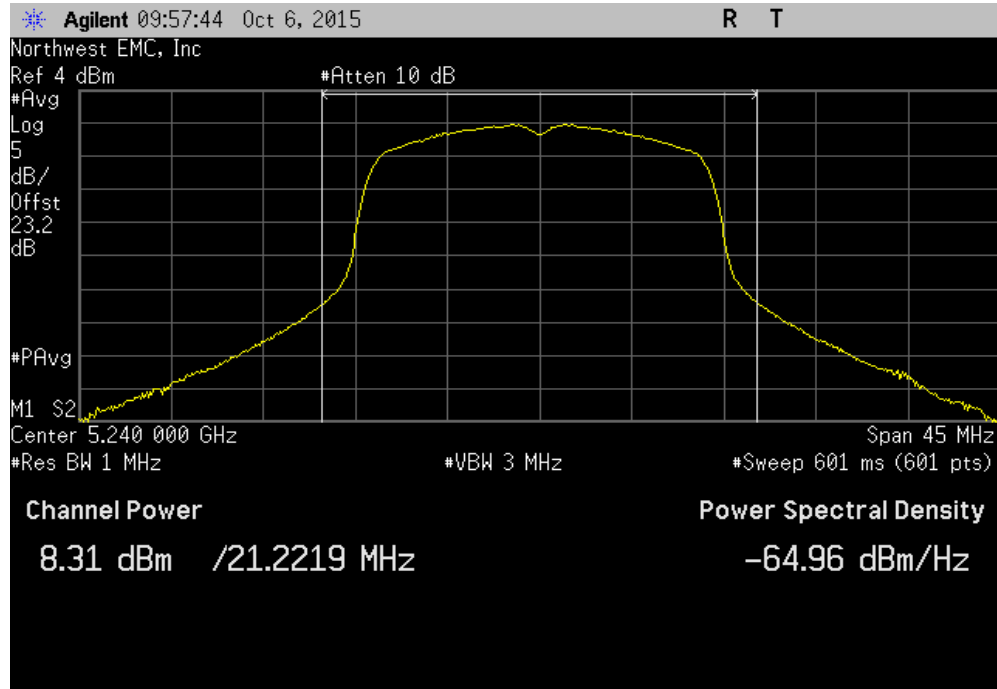


Ant 2, 802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
8.202	5.3	13.5	24	Pass		

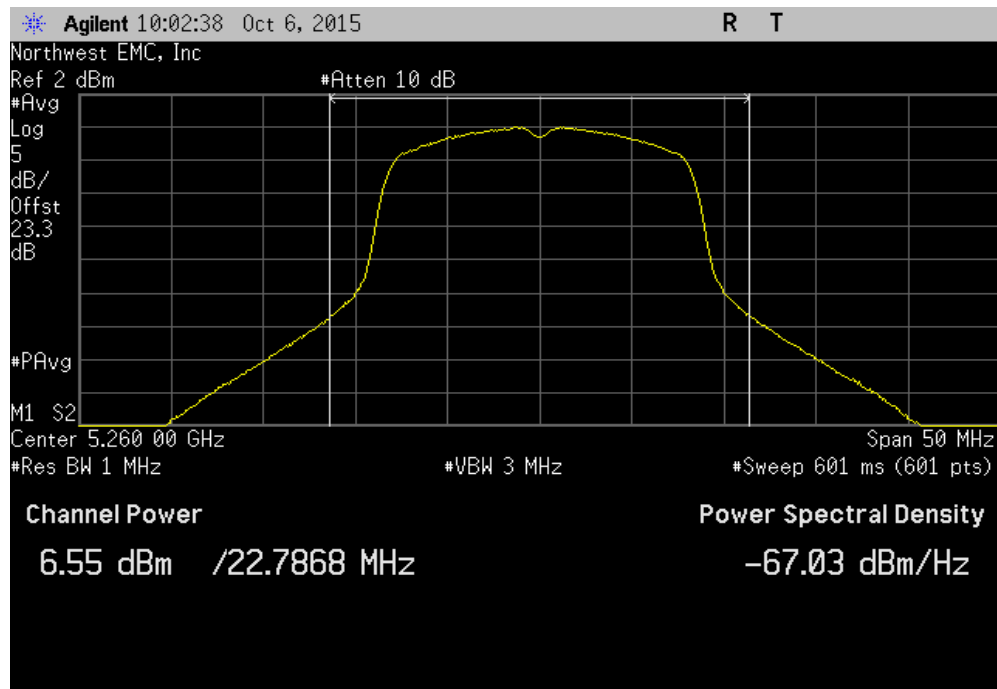


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(a) 54 Mbps, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
8.311	5.2	13.6	24	Pass		

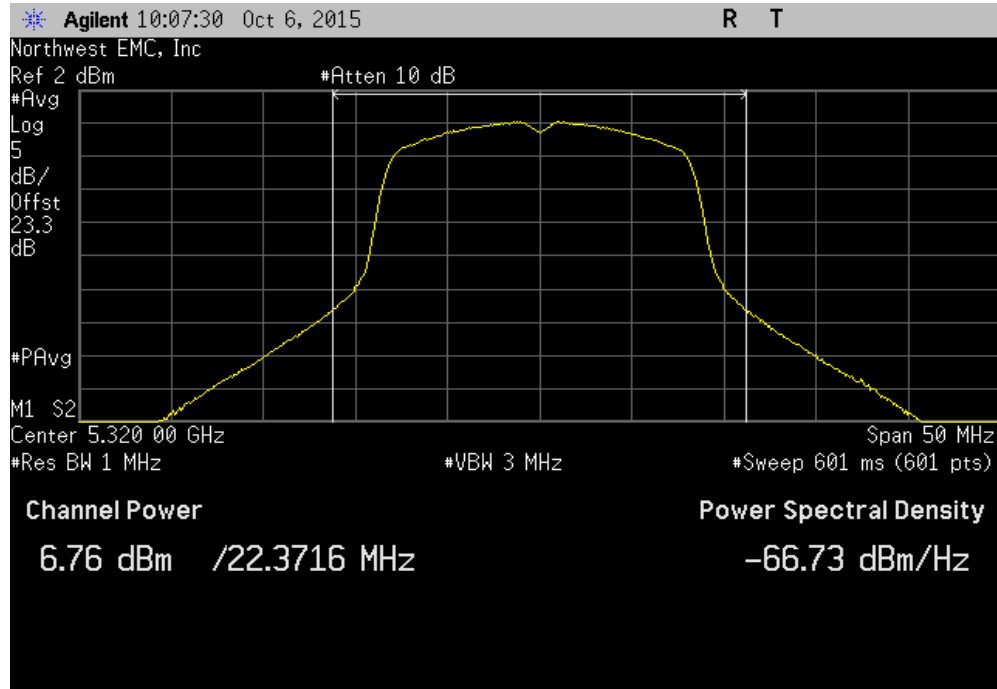


Ant 2, 802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
6.549	5.2	11.8	24	Pass		

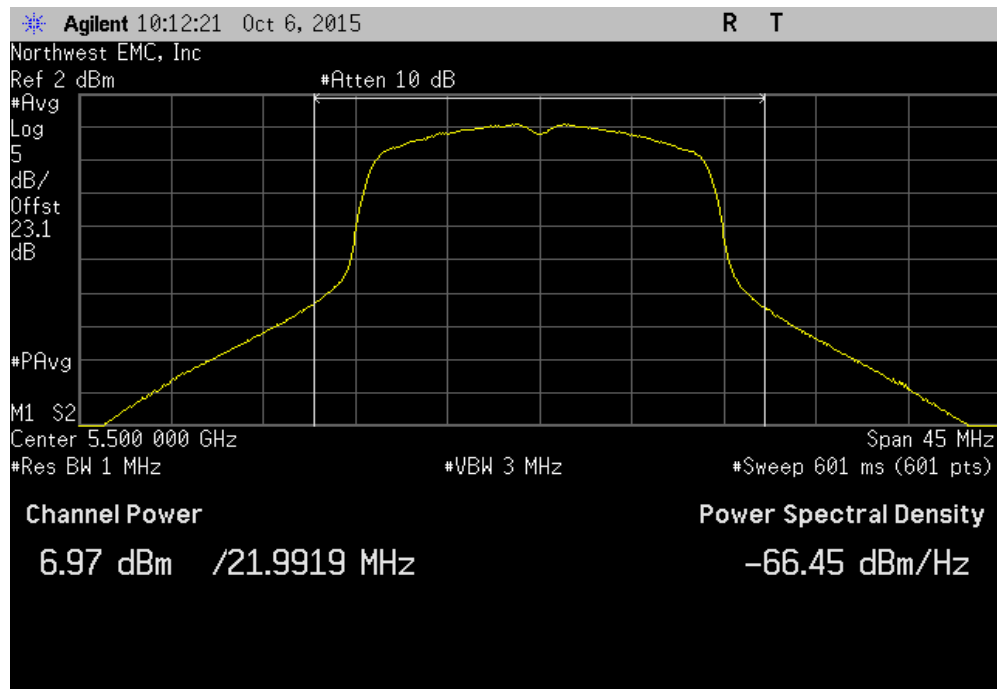


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(a) 54 Mbps, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
6.762	5.2	12	24	Pass		

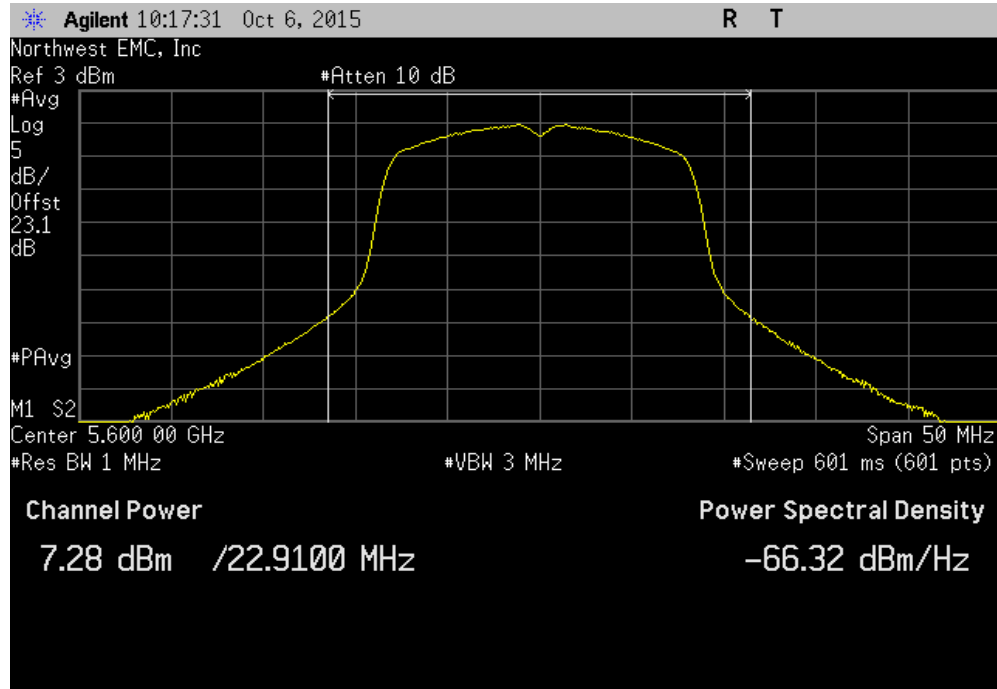


Ant 2, 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
6.968	5.2	12.2	24	Pass		

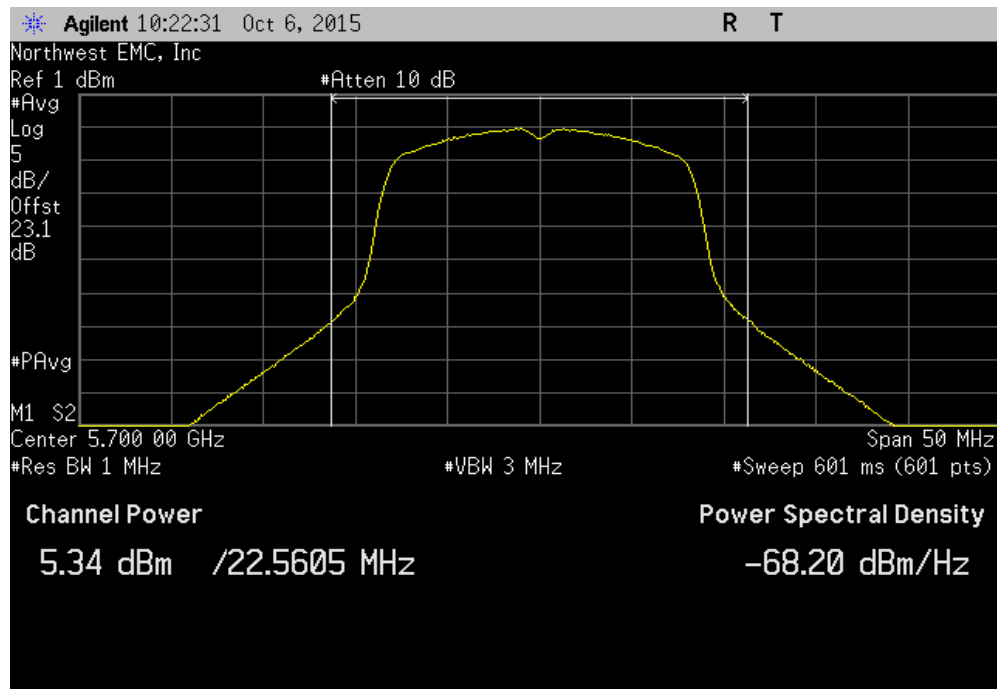


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
7.284	5.3	12.6	24	Pass		

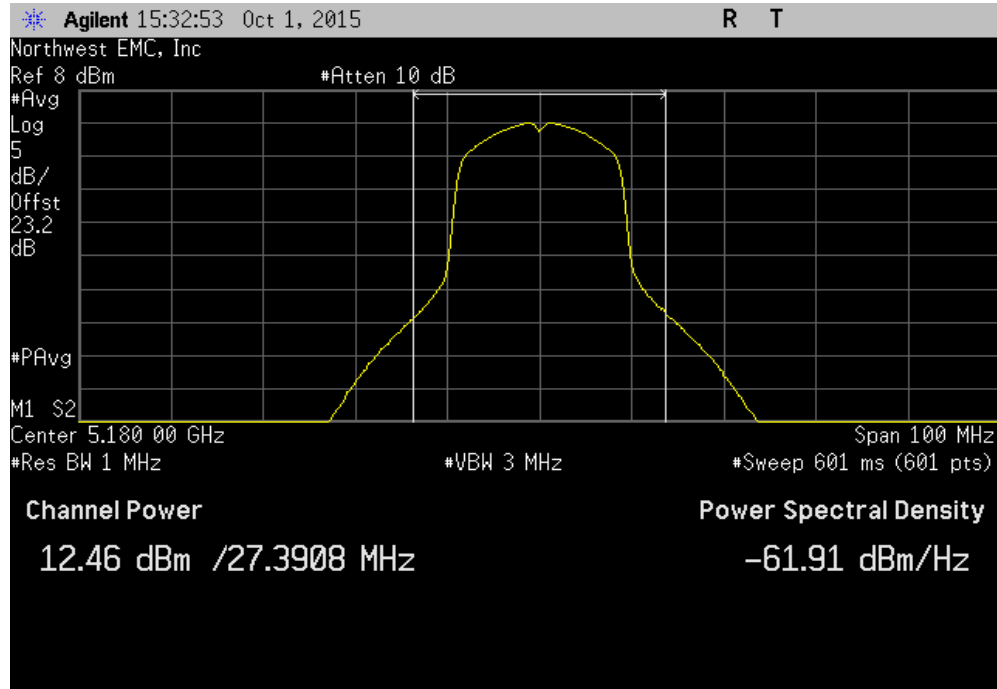


Ant 2, 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
5.335	5.3	10.6	24	Pass		

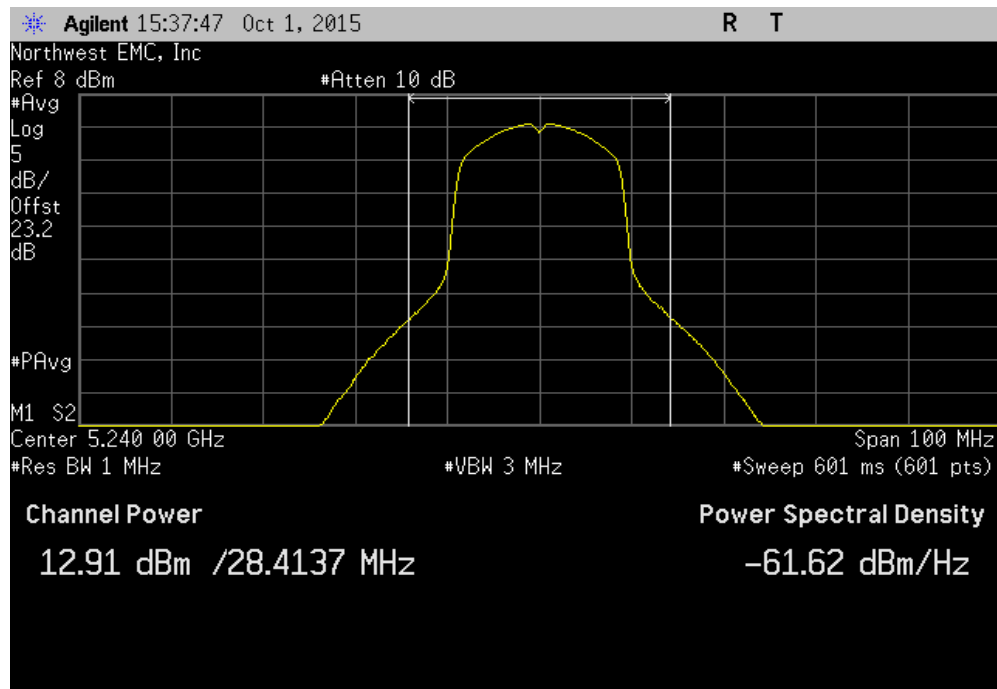


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(n) MCS0, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
12.461	1.2	13.6	24	Pass		

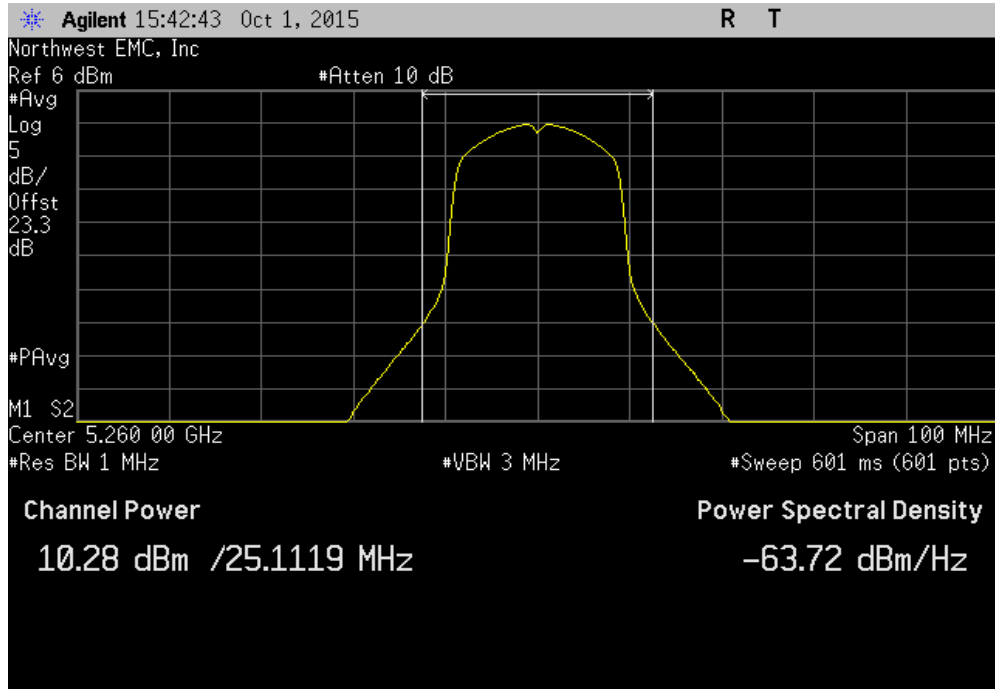


Ant 2, 802.11(n) MCS0, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
12.913	1.2	14.1	24	Pass		

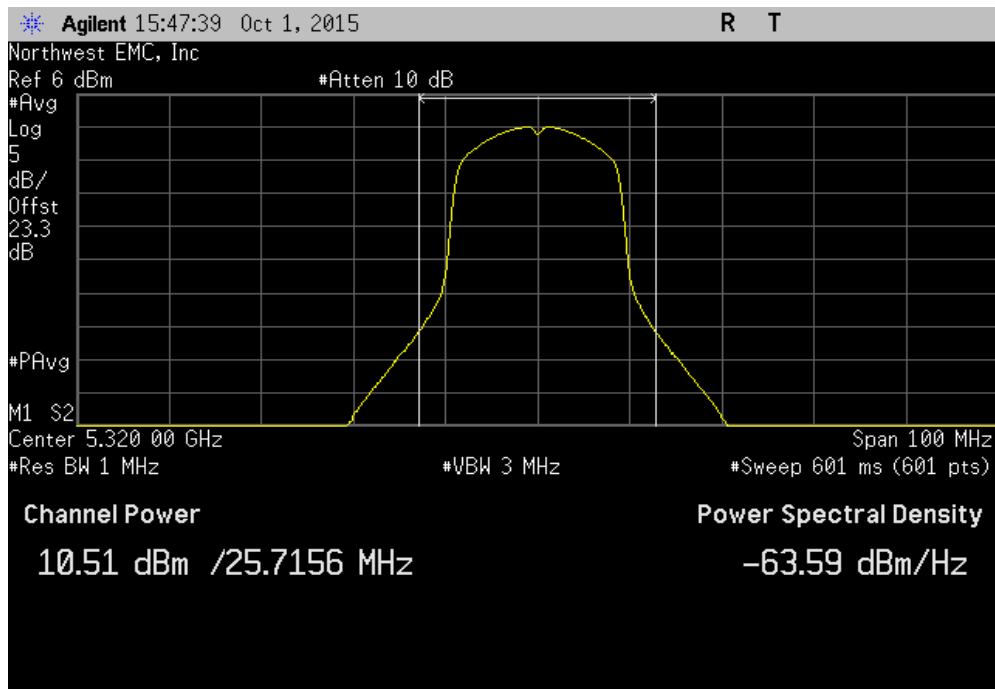


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(n) MCS0, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
10.277	1.2	11.4	24	Pass		

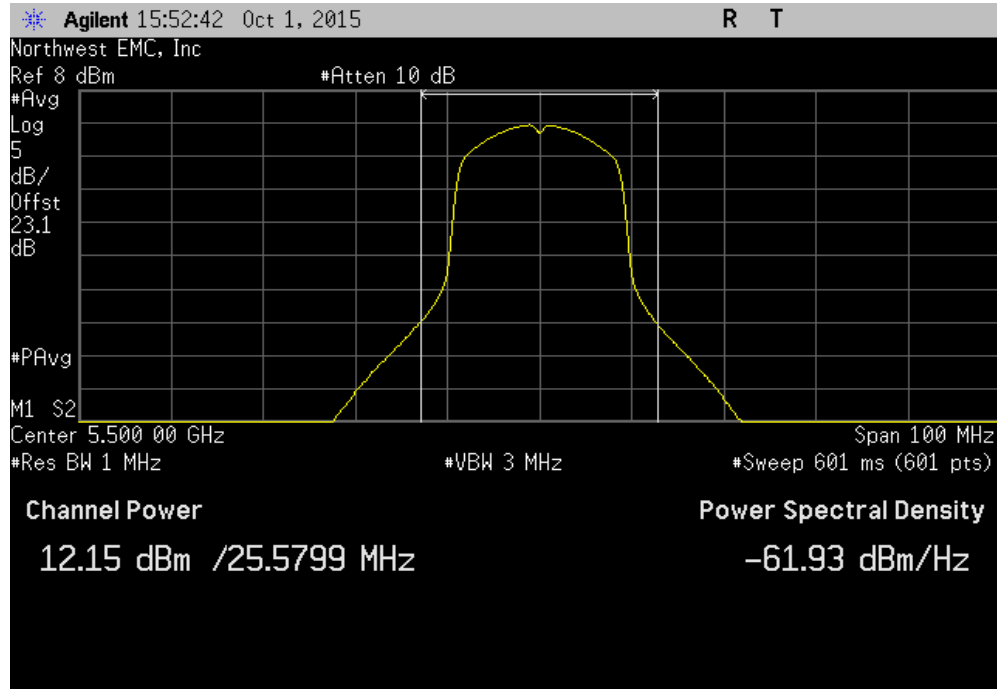


Ant 2, 802.11(n) MCS0, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
10.511	1.2	11.7	24	Pass		

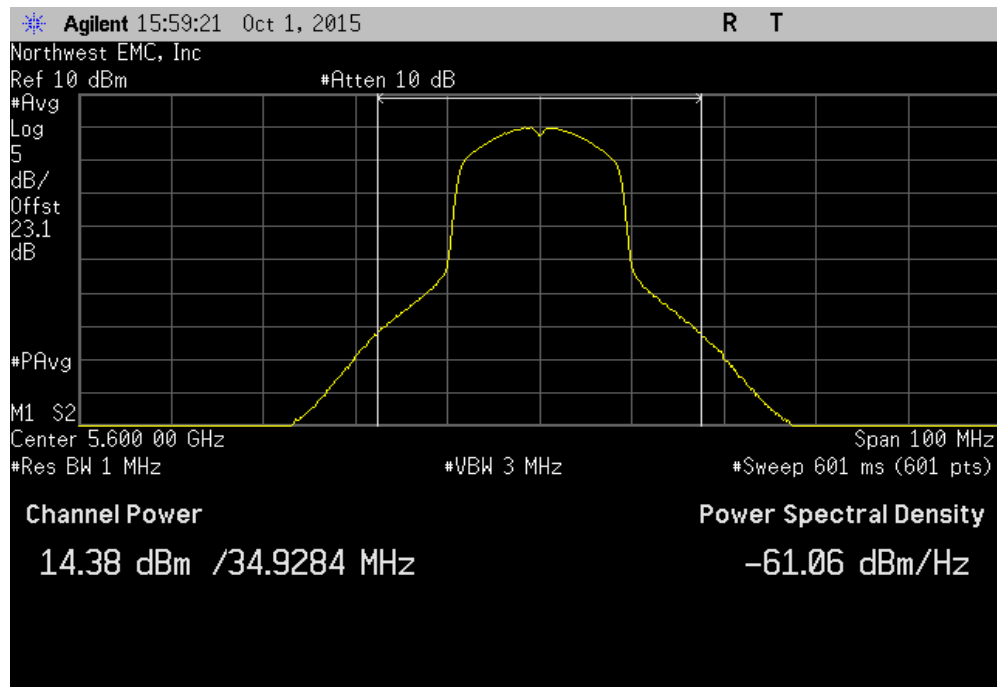


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(n) MCS0, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
12.147	1.2	13.3	24	Pass		

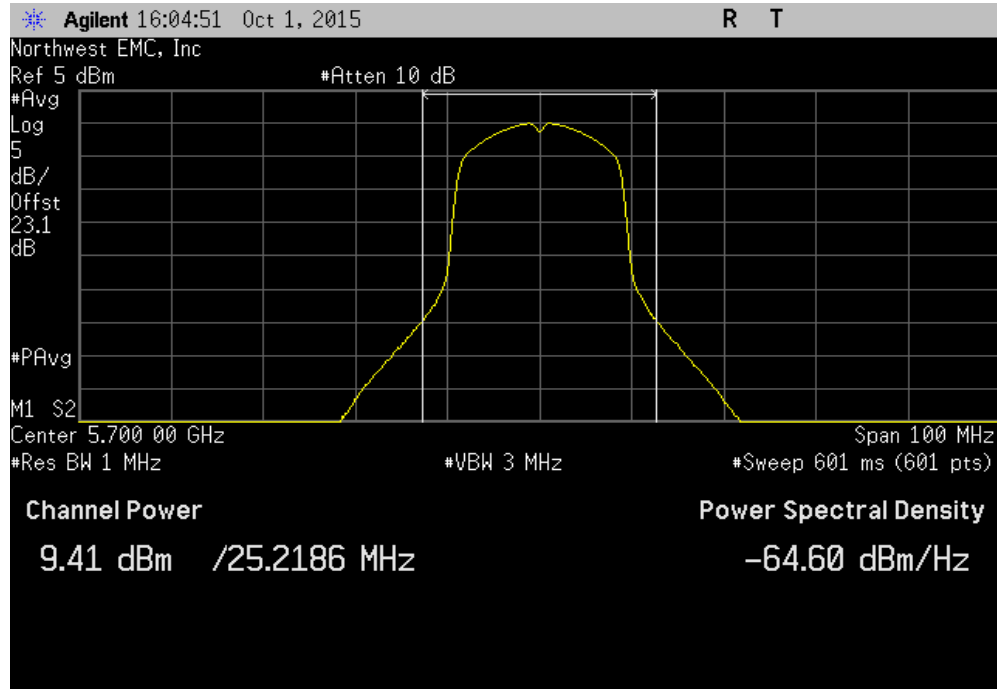


Ant 2, 802.11(n) MCS0, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
14.377	1.2	15.6	24	Pass		

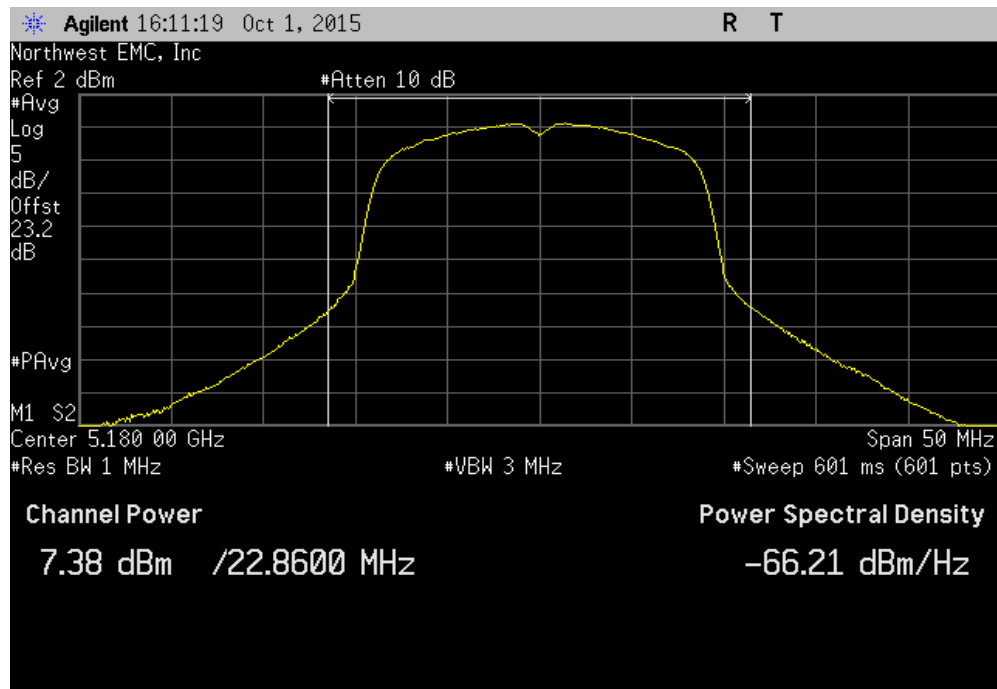


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(n) MCS0, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
Avg Cond	Duty Cycle		Value	Limit	Results	
Pwr (dBm)	Factor (dB)		(dBm)	(dBm)		
9.414	1.2		10.6	24	Pass	

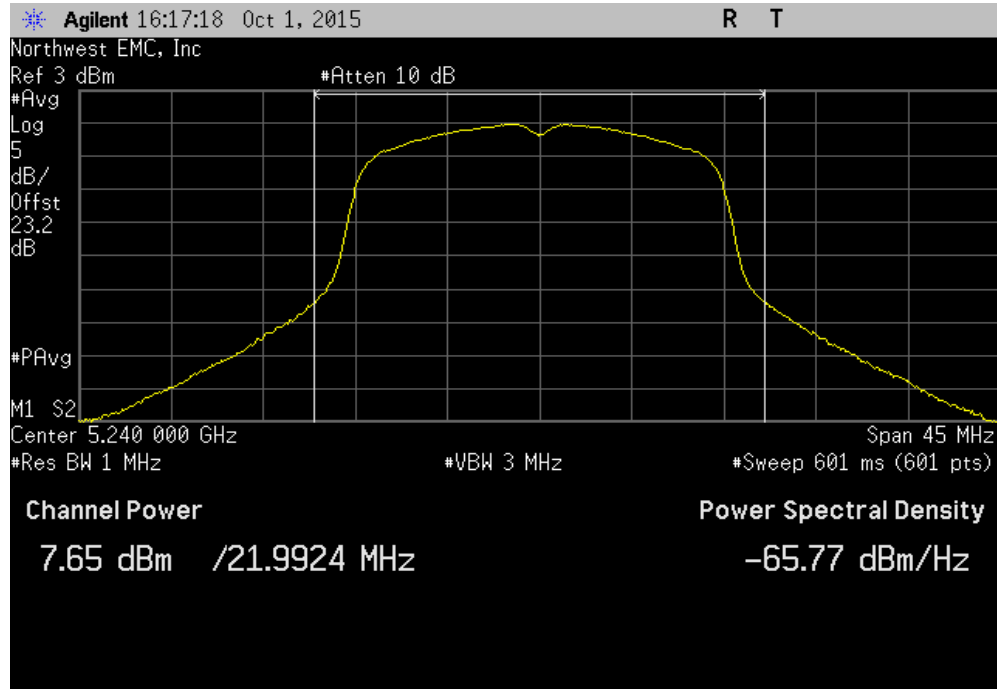


Ant 2, 802.11(n) MCS7, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
Avg Cond	Duty Cycle		Value	Limit	Results	
Pwr (dBm)	Factor (dB)		(dBm)	(dBm)		
7.385	5.5		12.9	24	Pass	

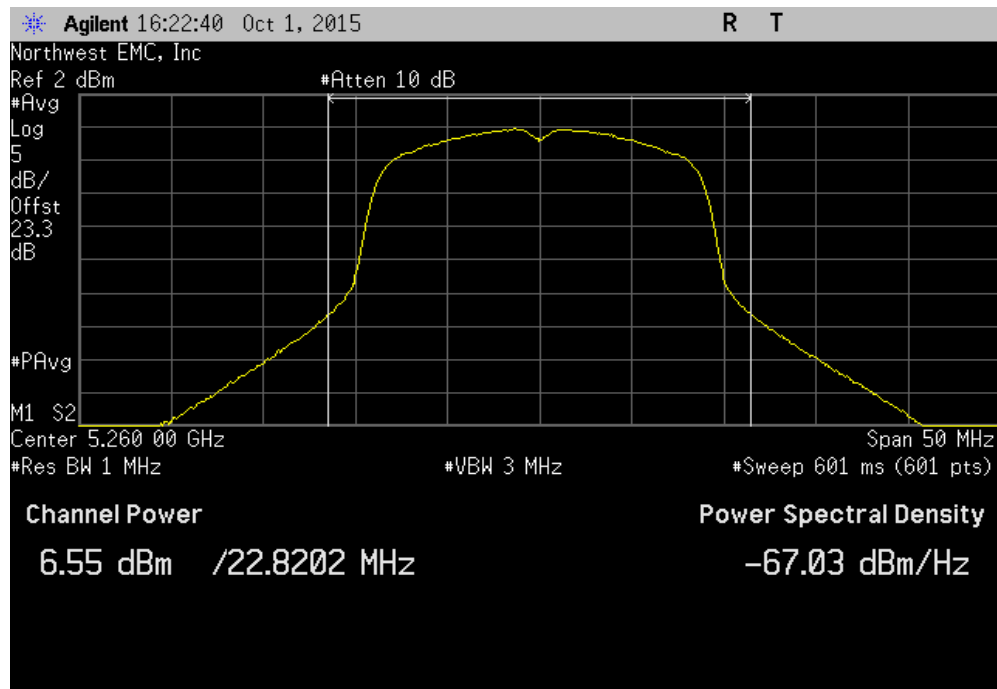


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(n) MCS7, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
7.648	5.5	13.1	24	Pass		

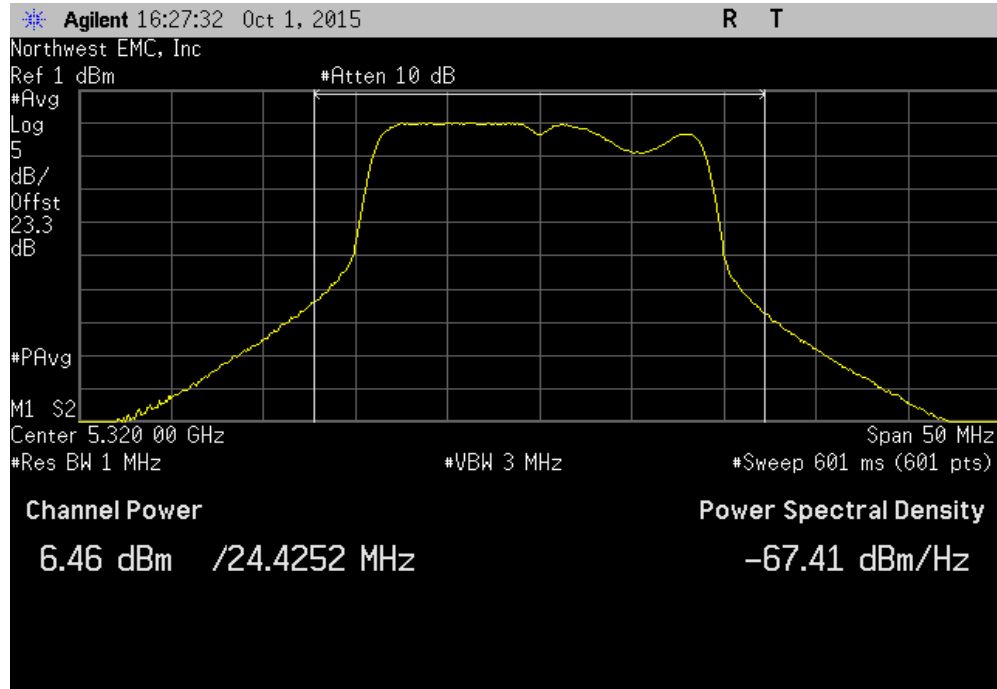


Ant 2, 802.11(n) MCS7, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
6.552	5.5	12	24	Pass		

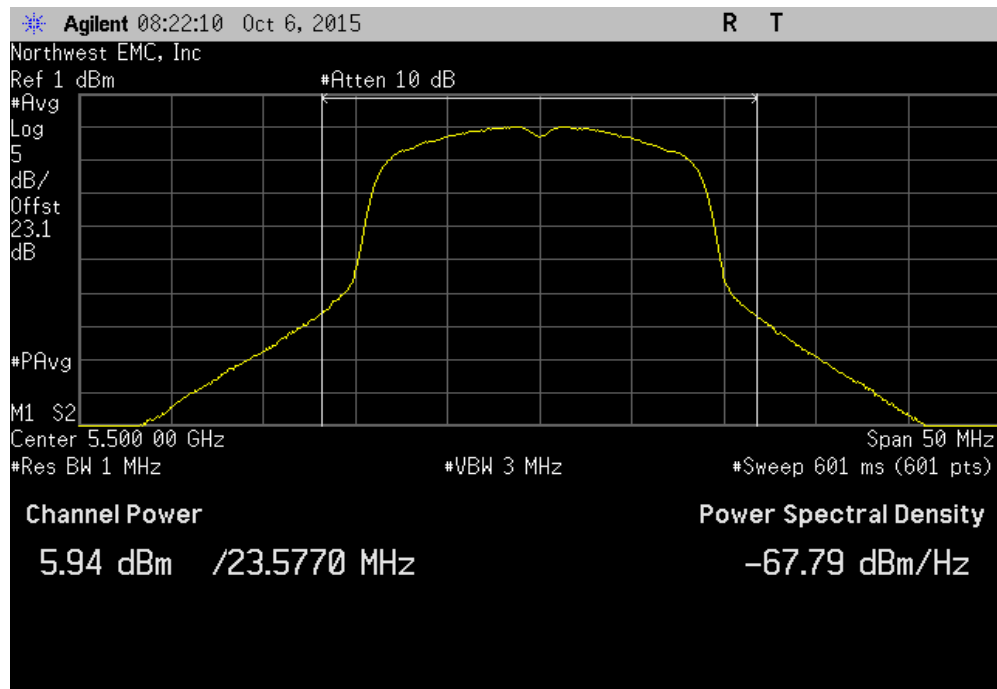


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(n) MCS7, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
6.465	5.5	12	24	Pass		

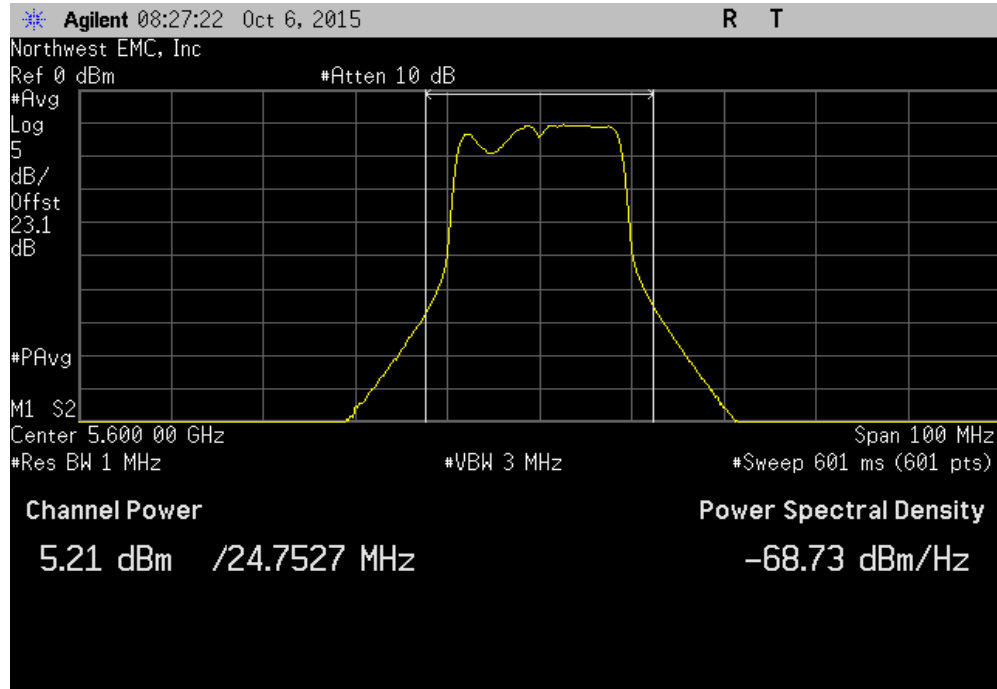


Ant 2, 802.11(n) MCS7, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
5.939	5.5	11.4	24	Pass		

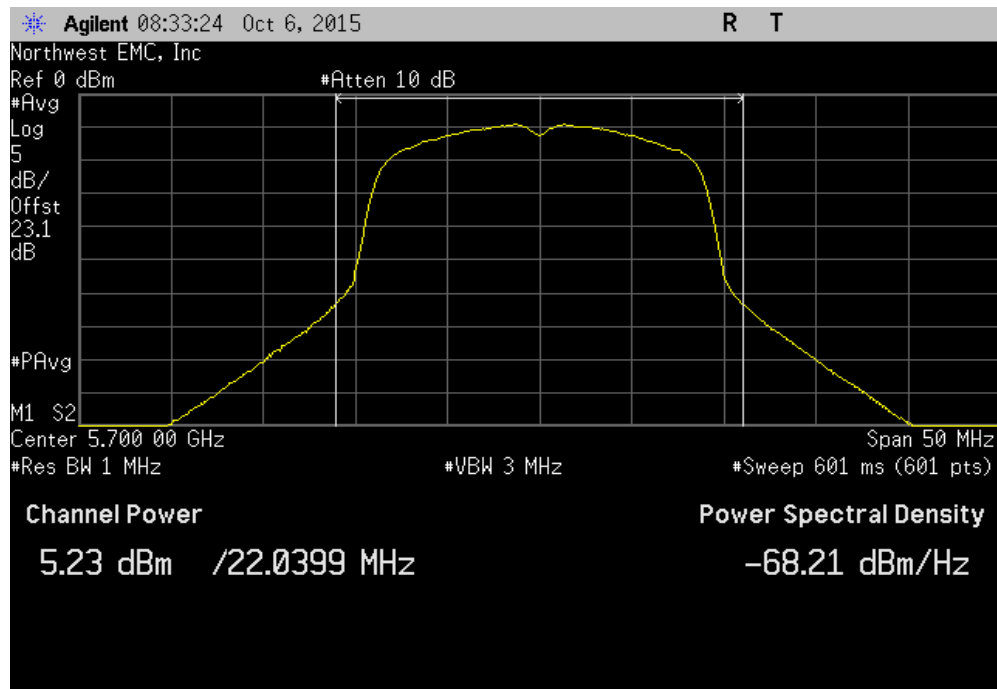


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(n) MCS7, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
5.206	5.5	10.7	24	Pass		



Ant 2, 802.11(n) MCS7, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
5.227	5.5	10.8	24	Pass		



MAXIMUM CONDUCTED OUTPUT 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)
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFE	6/22/2015	12
Cable	ESM Cable Corp.	TTBJ-141 KMKM-72	NC5	6/6/2015	12
Attenuator	Fairview Microwave	SA4014-20	TKE	1/16/2015	12
Block - DC	Fairview Microwave	SD3379	AMJ	6/6/2015	12
Generator - Signal	Agilent	N5183A	TIA	4/7/2014	24

TEST DESCRIPTION

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. The radio was operated in the modes as shown in the following data sheets.

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.

Prior to measuring maximum 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.

The maximum conducted output power was measured using ANSI C63.10, Method SA-2 (RMS detection and trace averaging across the on and off times of the EUT transmission and use of a duty cycle correction factor).

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

- RMS Detector
- Trace average 100 traces in power averaging mode.
- Power was integrated across "B", by using the channel power function of the analyzer.

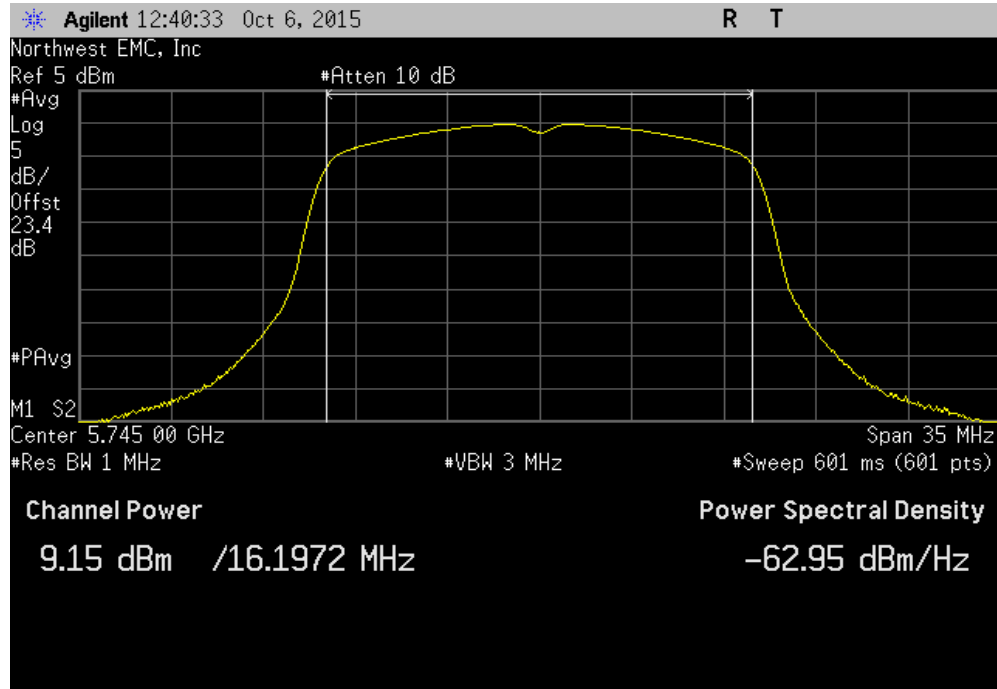
A duty cycle correction factor was added to the measurement using the results of the formula of $10 \cdot \log(1/D)$ where D is the duty cycle.

MAXIMUM CONDUCTED OUTPUT POWER

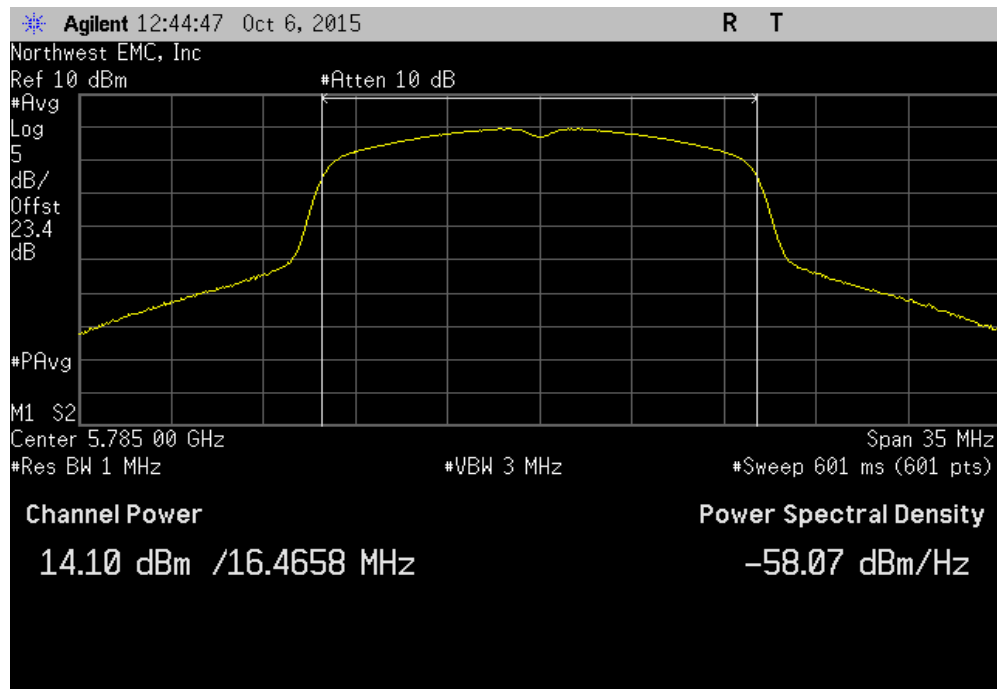
EUT: Precor Wi-Fi / Bluetooth Module Model 303346				Work Order: PRCR0230	
Serial Number: None				Date: 10/06/15	
Customer: Precor, Inc.				Temperature: 23°C	
Attendees: Rich Whitbeck				Humidity: 46%	
Project: None				Barometric Pres.: 1015mb	
Tested by: Richard Melloth		Power: 110VAC/60Hz		Job Site: NC02	
TEST SPECIFICATIONS			Test Method		
FCC 15.407:2015			ANSI C63.10:2013		
COMMENTS					
Power settings at Maximum.					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	1	Signature 			
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm) Results
Ant 1					
802.11(a) 6 Mbps					
5725 - 5825 MHz Band					
		Low Channel 149, 5745 MHz	9.149	1.1	10.2 30 Pass
		Mid Channel 157, 5785 MHz	14.098	1.1	15.2 30 Pass
		High Channel 165, 5825 MHz	10.268	1.1	11.4 30 Pass
802.11(a) 36 Mbps					
5725 - 5825 MHz Band					
		Low Channel 149, 5745 MHz	6.529	4.2	10.8 30 Pass
		Mid Channel 157, 5785 MHz	9.649	4.2	13.8 30 Pass
		High Channel 165, 5825 MHz	7.957	4.2	12.1 30 Pass
802.11(a) 54 Mbps					
5725 - 5825 MHz Band					
		Low Channel 149, 5745 MHz	5.831	5.3	11.1 30 Pass
		Mid Channel 157, 5785 MHz	7.004	5.2	12.2 30 Pass
		High Channel 165, 5825 MHz	7.047	5.2	12.3 30 Pass
802.11(n) MCS0					
5725 - 5825 MHz Band					
		Low Channel 149, 5745 MHz	9.293	1.2	10.5 30 Pass
		Mid Channel 157, 5785 MHz	13.768	1.2	15 30 Pass
		High Channel 165, 5825 MHz	10.28	1.2	11.4 30 Pass
802.11(n) MCS7					
5725 - 5825 MHz Band					
		Low Channel 149, 5745 MHz	5.704	5.5	11.2 30 Pass
		Mid Channel 157, 5785 MHz	6.151	5.5	11.6 30 Pass
		High Channel 165, 5825 MHz	6.275	5.5	11.8 30 Pass
Ant 2					
802.11(a) 6 Mbps					
5725 - 5825 MHz Band					
		Low Channel 149, 5745 MHz	11.219	1.1	12.3 30 Pass
		Mid Channel 157, 5785 MHz	15.977	1.1	17.1 30 Pass
		High Channel 165, 5825 MHz	12.099	1.1	13.2 30 Pass
802.11(a) 36 Mbps					
5725 - 5825 MHz Band					
		Low Channel 149, 5745 MHz	7.56	4.2	11.8 30 Pass
		Mid Channel 157, 5785 MHz	10.515	4.2	14.8 30 Pass
		High Channel 165, 5825 MHz	8.725	4.2	12.9 30 Pass
802.11(a) 54 Mbps					
5725 - 5825 MHz Band					
		Low Channel 149, 5745 MHz	6.714	5.2	11.9 30 Pass
		Mid Channel 157, 5785 MHz	7.895	5.2	13.1 30 Pass
		High Channel 165, 5825 MHz	7.719	5.3	13 30 Pass
802.11(n) MCS0					
5725 - 5825 MHz Band					
		Low Channel 149, 5745 MHz	10.352	1.2	11.5 30 Pass
		Mid Channel 157, 5785 MHz	14.556	1.2	15.7 30 Pass
		High Channel 165, 5825 MHz	11.259	1.2	12.4 30 Pass
802.11(n) MCS7					
5725 - 5825 MHz Band					
		Low Channel 149, 5745 MHz	6.507	5.5	12 30 Pass
		Mid Channel 157, 5785 MHz	7.01	5.5	12.5 30 Pass
		High Channel 165, 5825 MHz	7.115	5.5	12.6 30 Pass

MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
9.149	1.1	10.2	30	Pass		

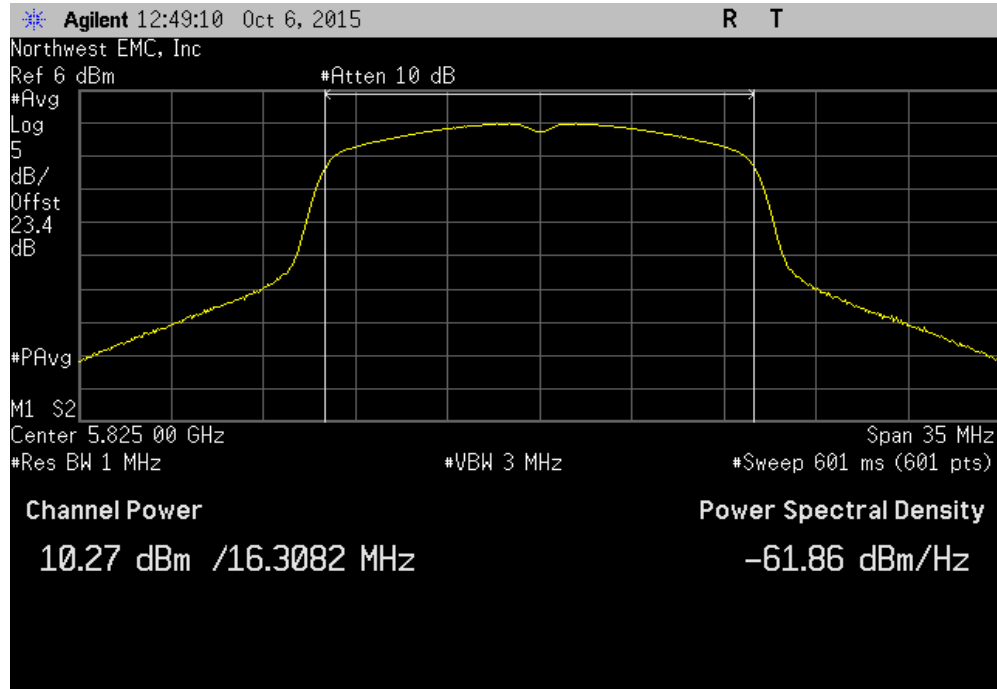


Ant 1, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
14.098	1.1	15.2	30	Pass		

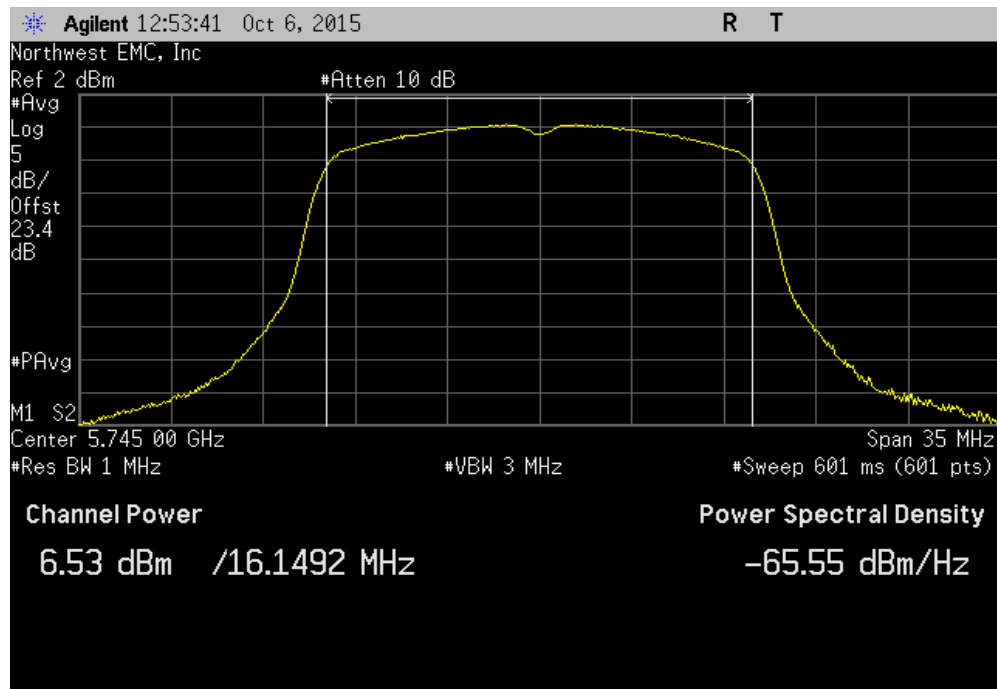


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
10.268	1.1	11.4	30	Pass		

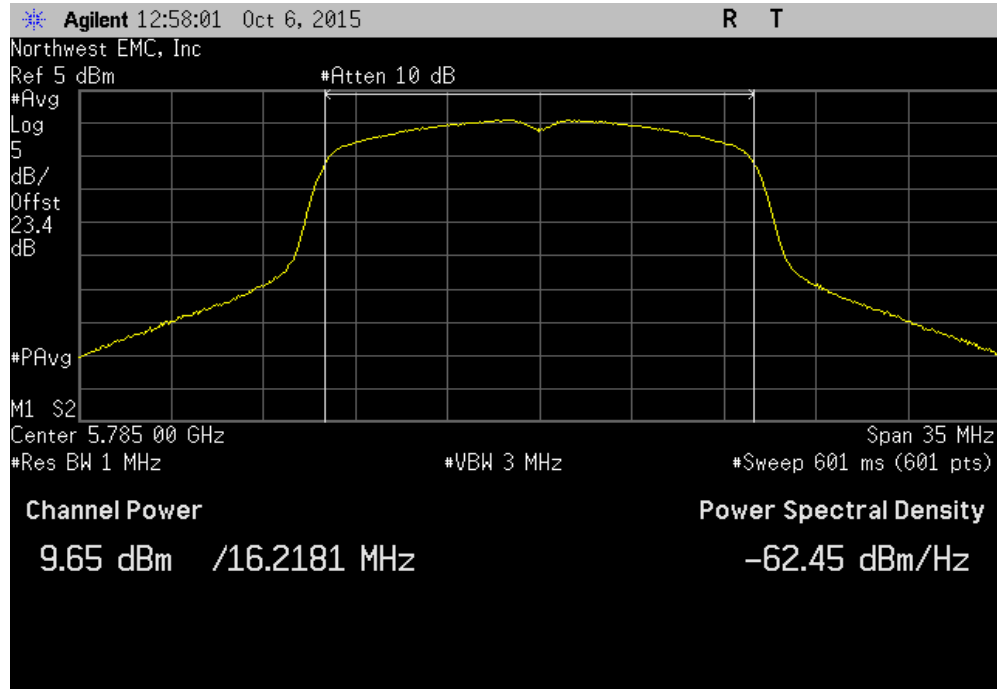


Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
6.529	4.2	10.8	30	Pass		

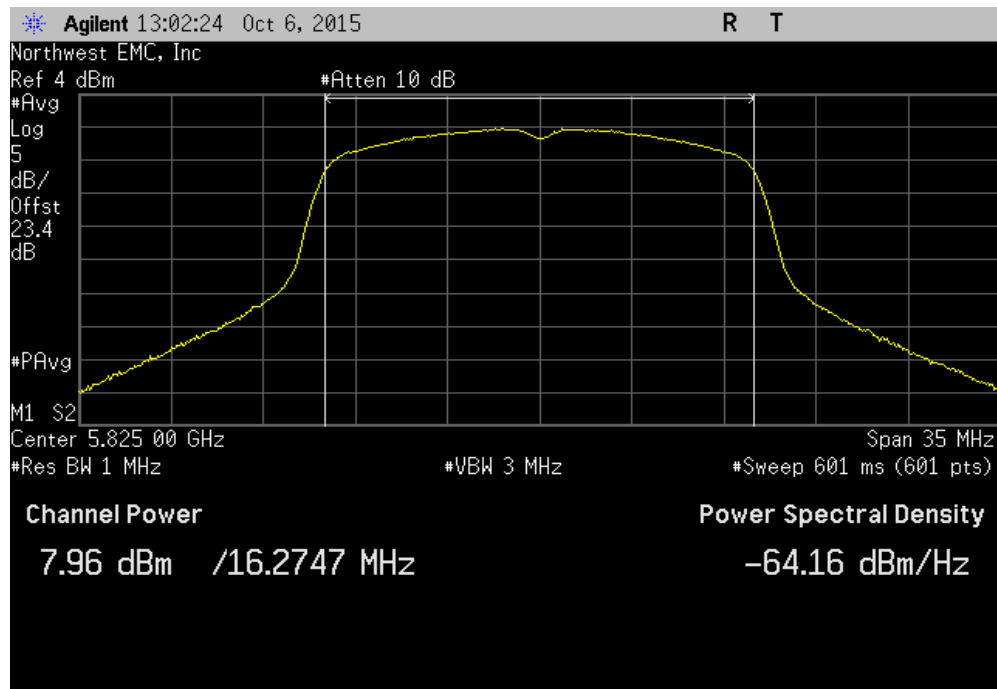


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
9.649	4.2	13.8	30	Pass		

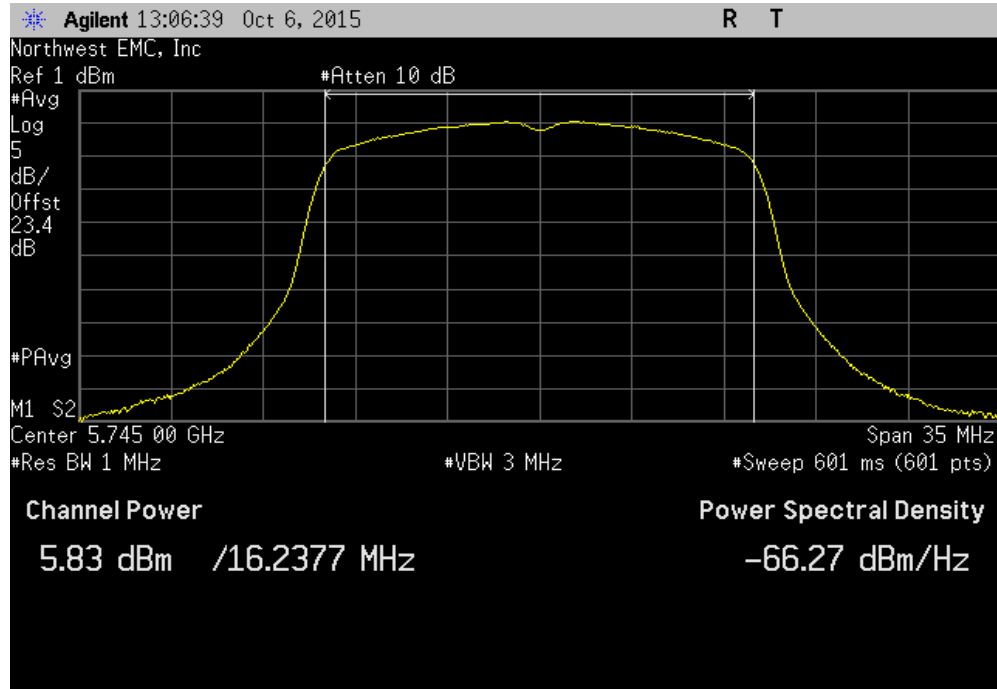


Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
7.957	4.2	12.1	30	Pass		

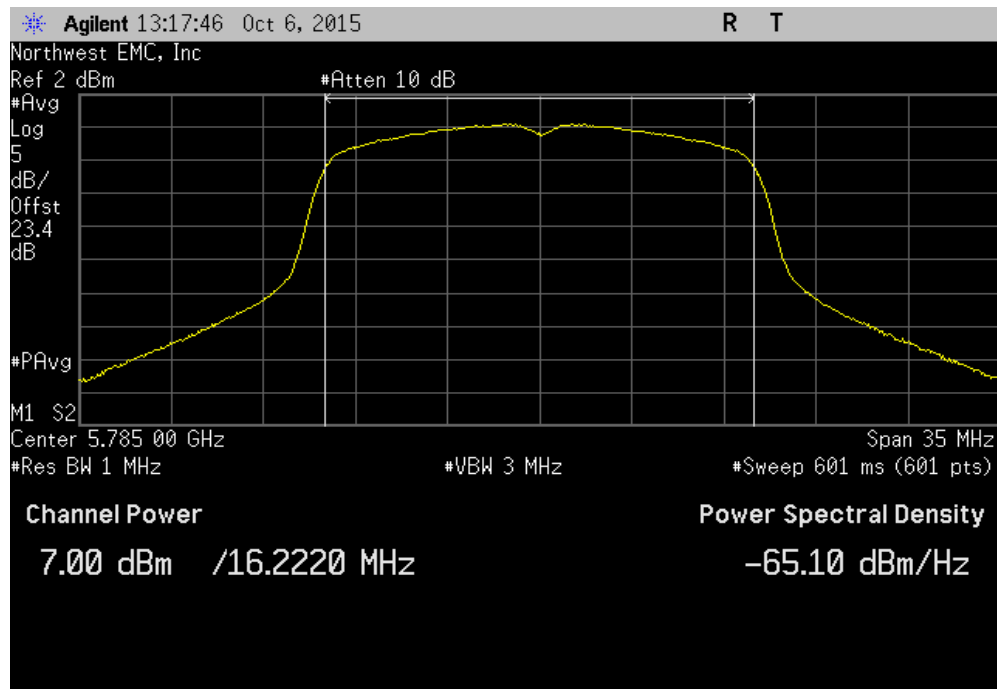


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
5.831	5.3	11.1	30	Pass		

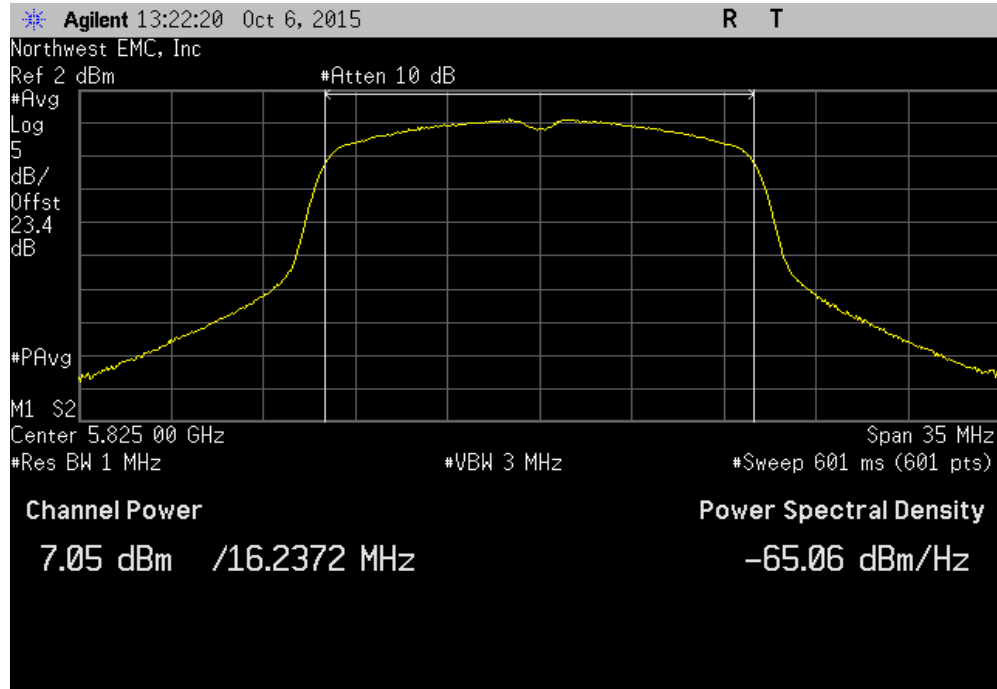


Ant 1, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
7.004	5.2	12.2	30	Pass		

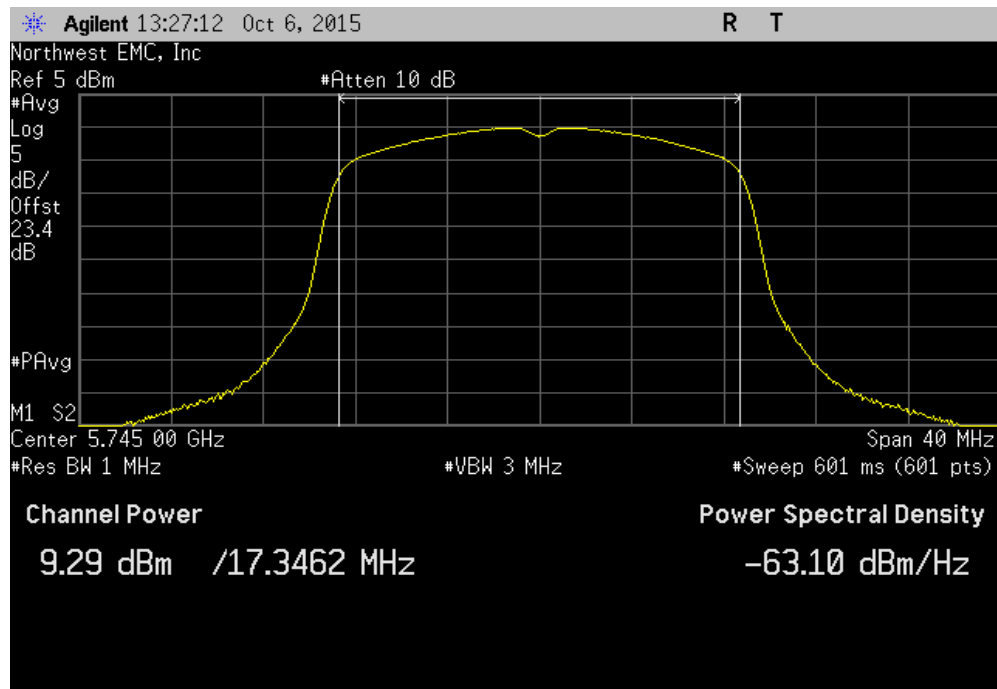


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
7.047	5.2	12.3	30	Pass		

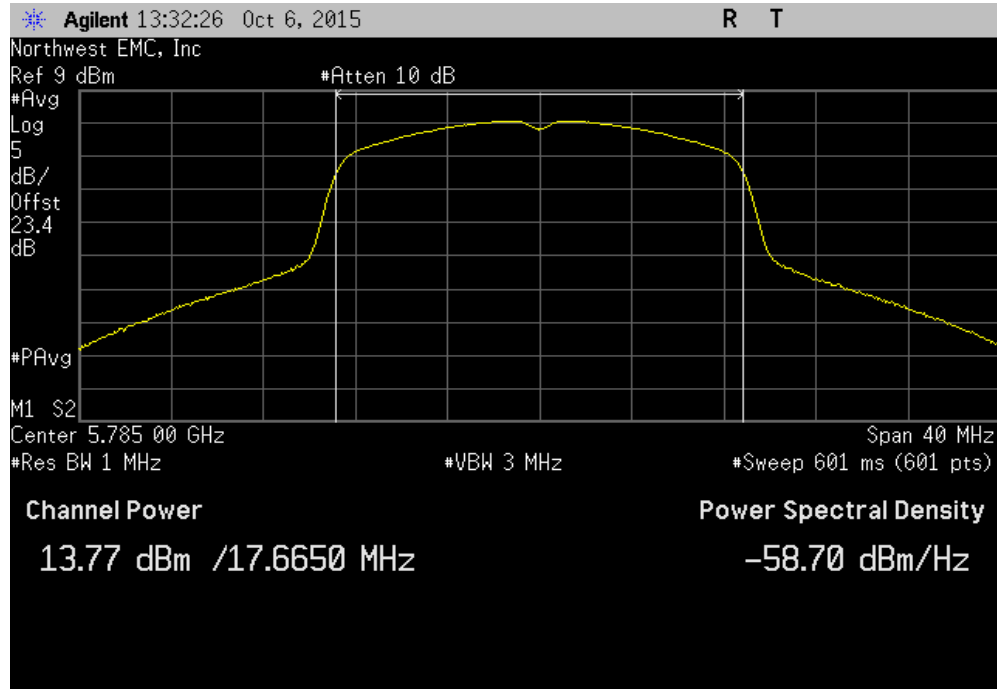


Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
9.293	1.2	10.5	30	Pass		

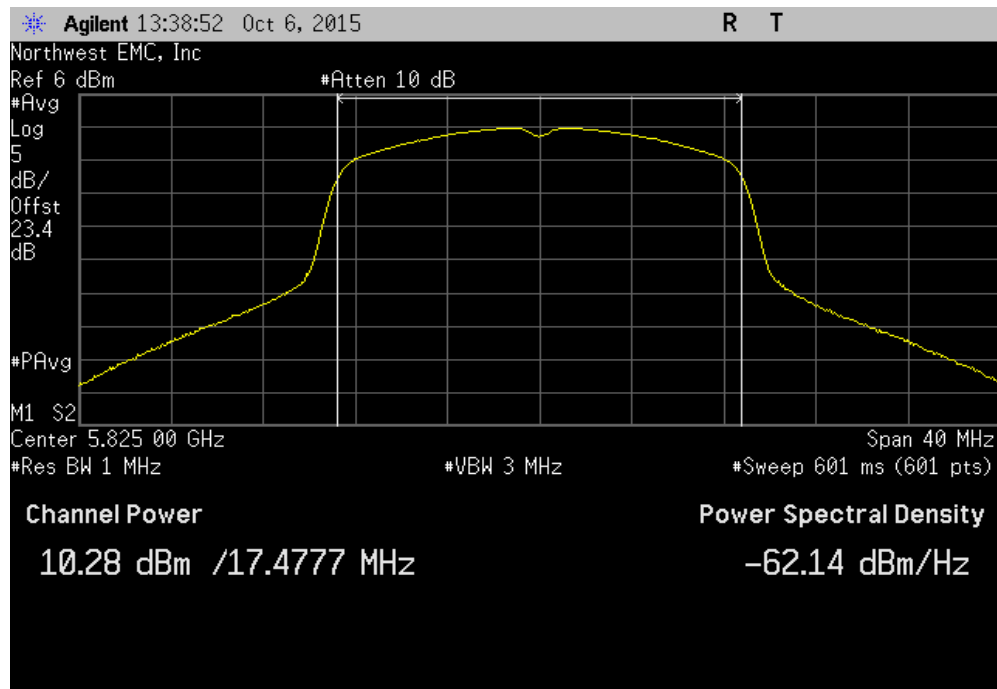


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
13.768	1.2	15	30	Pass		

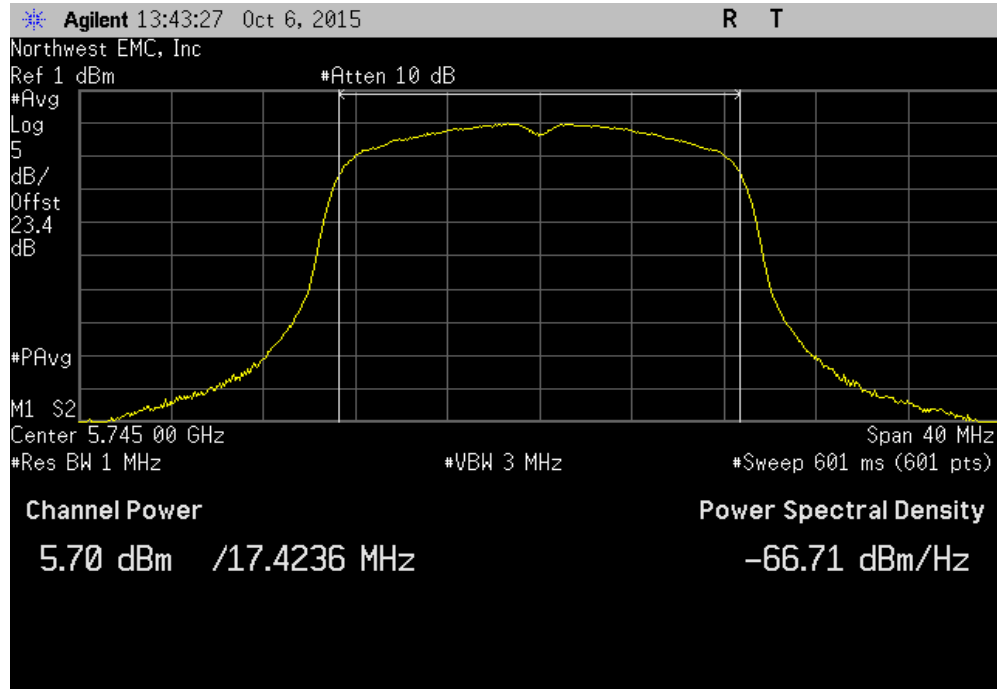


Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
10.28	1.2	11.4	30	Pass		

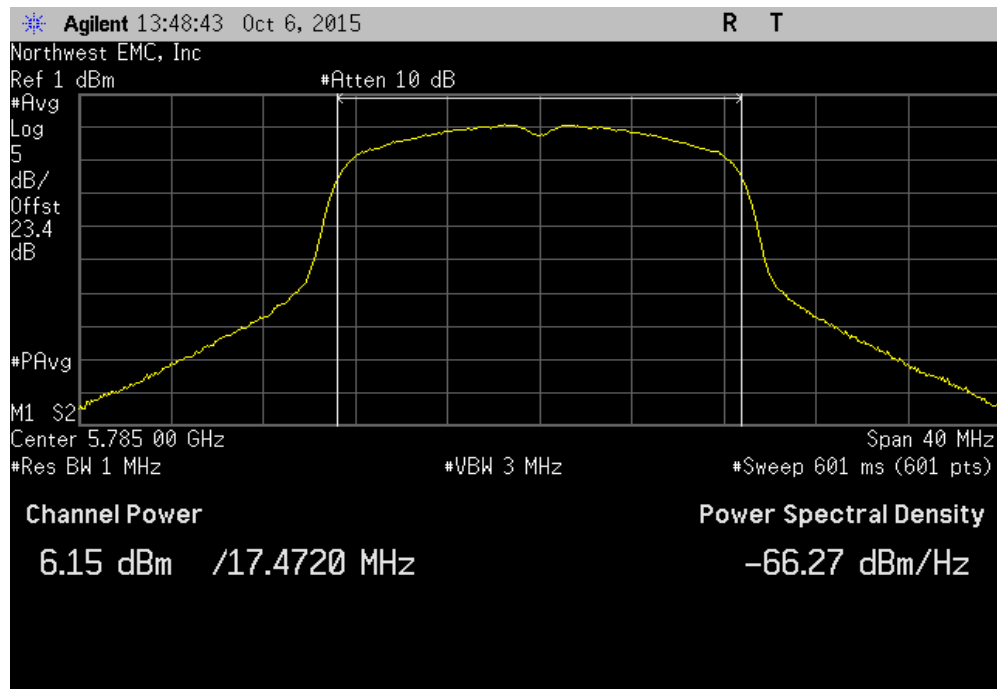


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
5.704	5.5	11.2	30	Pass		

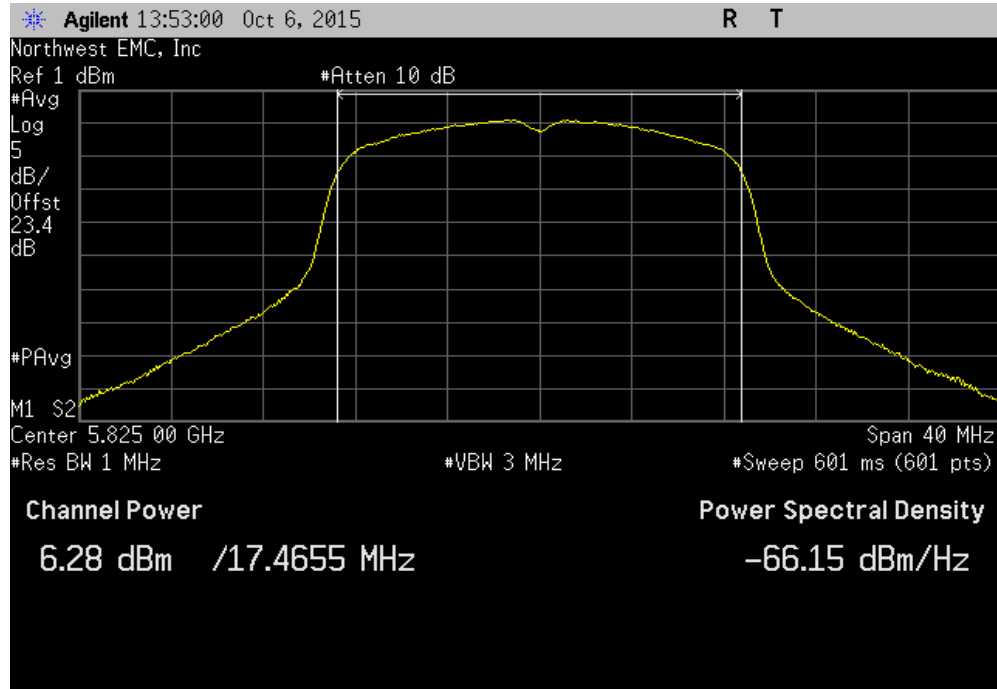


Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
6.151	5.5	11.6	30	Pass		

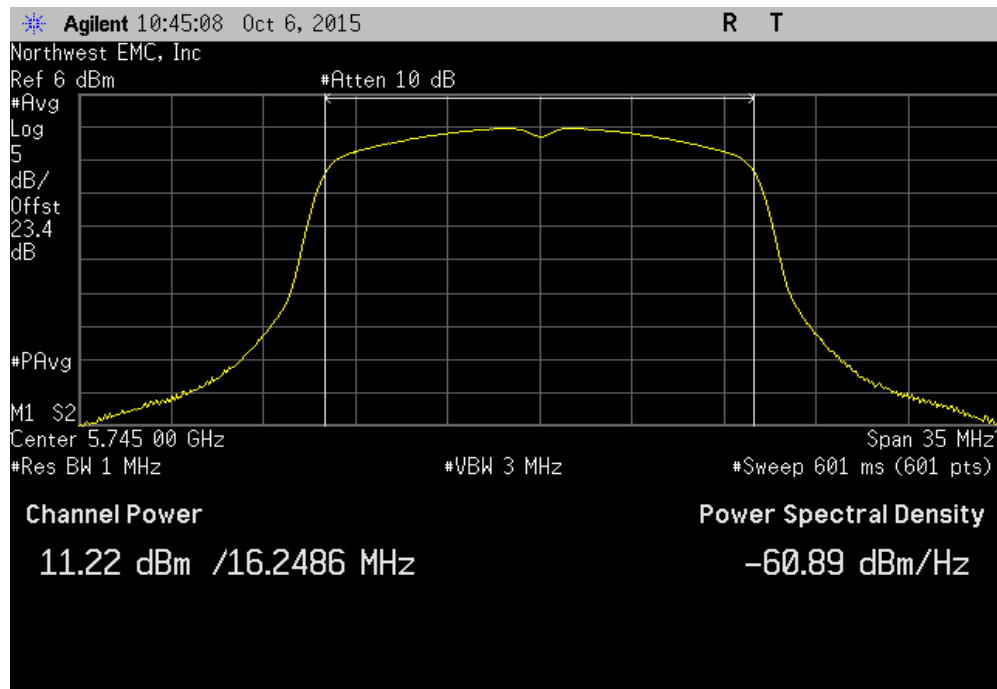


MAXIMUM CONDUCTED OUTPUT POWER

Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
6.275	5.5	11.8	30	Pass		

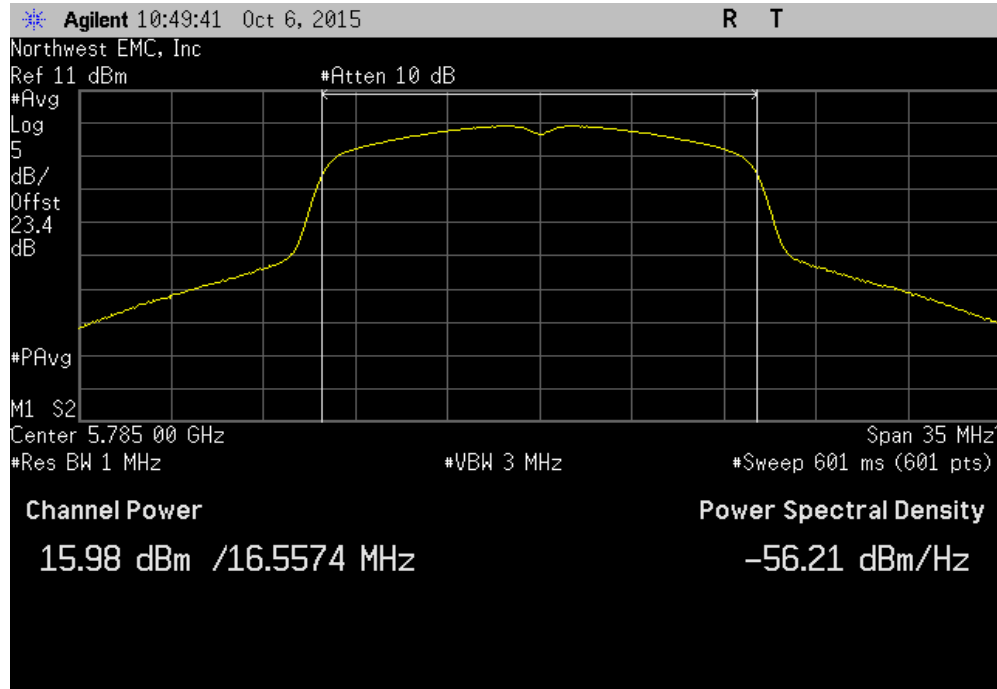


Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
11.219	1.1	12.3	30	Pass		

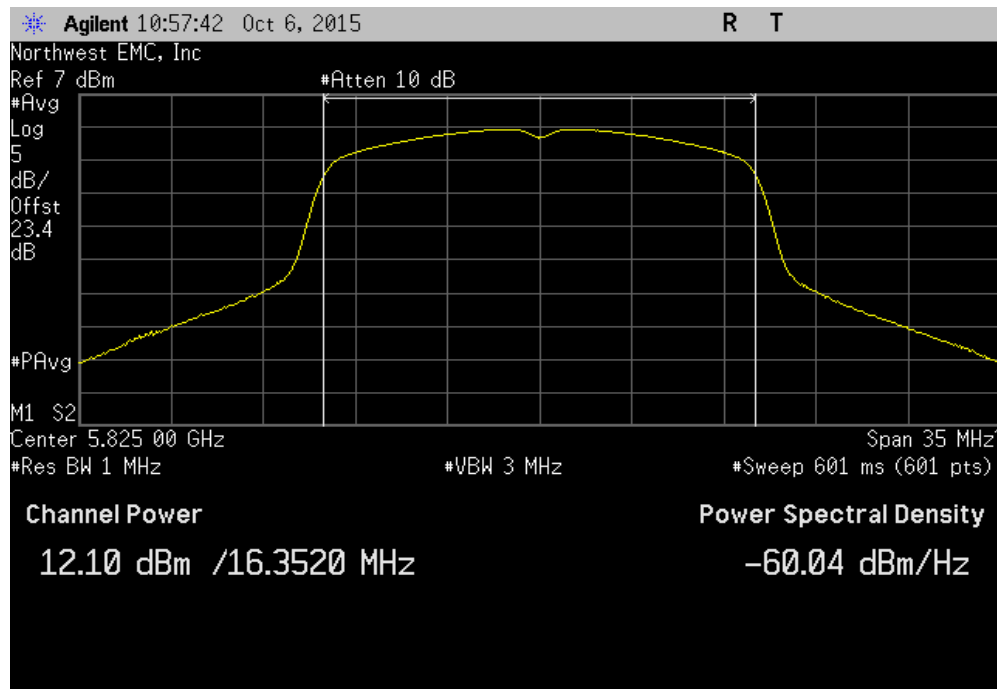


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
15.977	1.1	17.1	30	Pass		

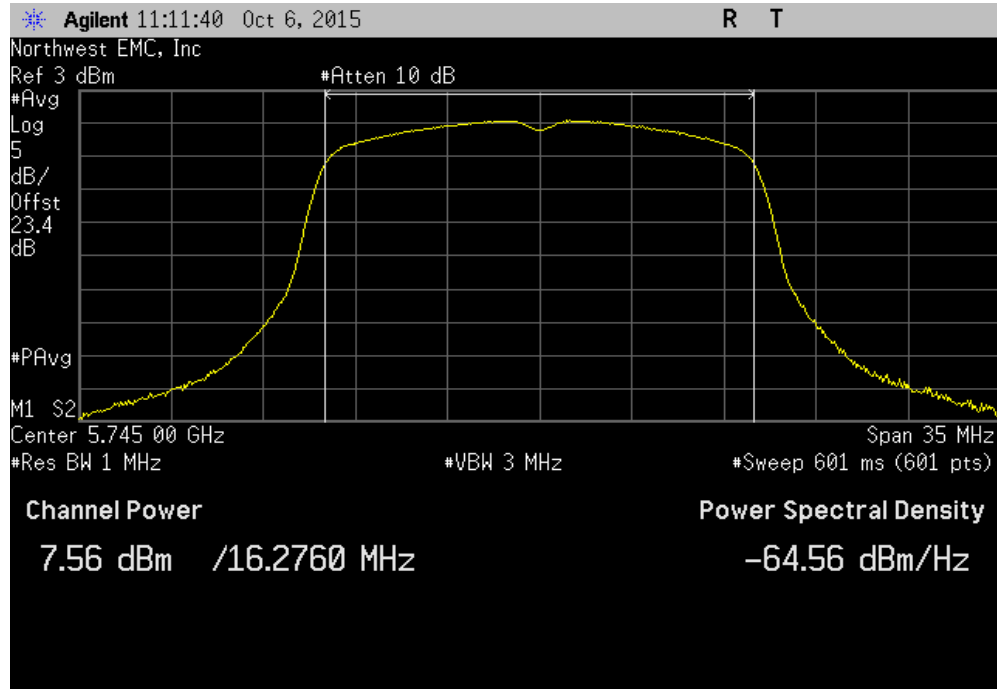


Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
12.099	1.1	13.2	30	Pass		

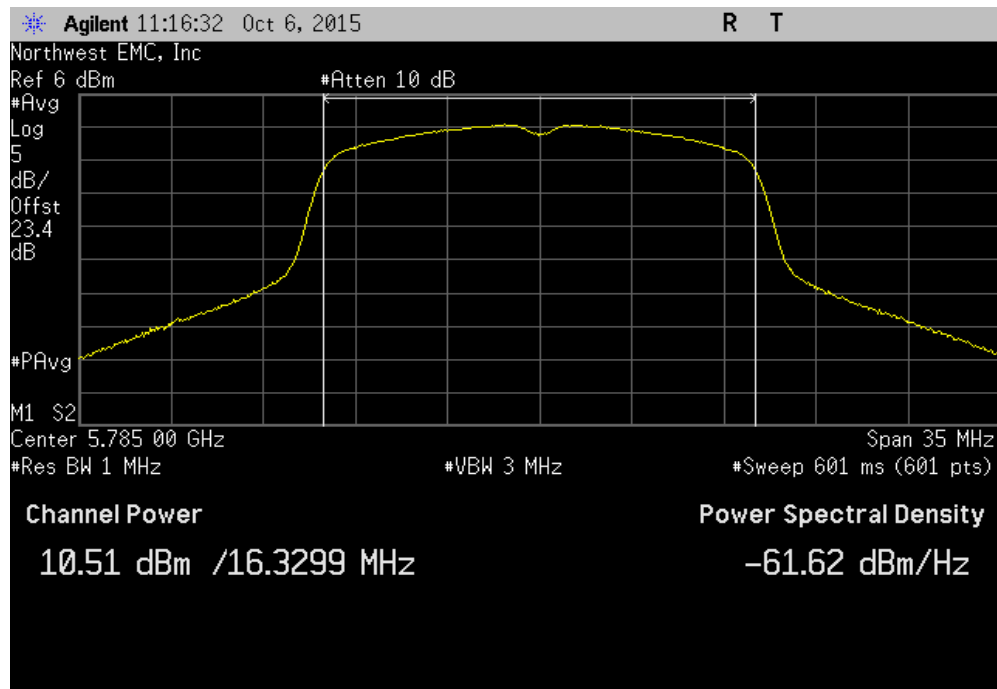


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
7.56	4.2	11.8	30	Pass		

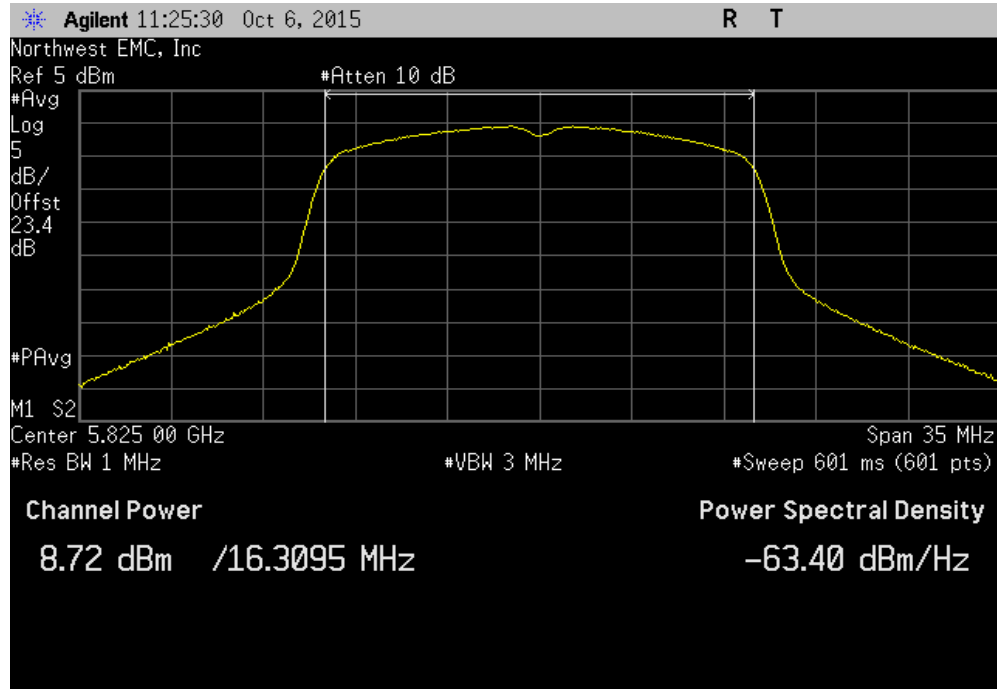


Ant 2, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
10.515	4.2	14.8	30	Pass		

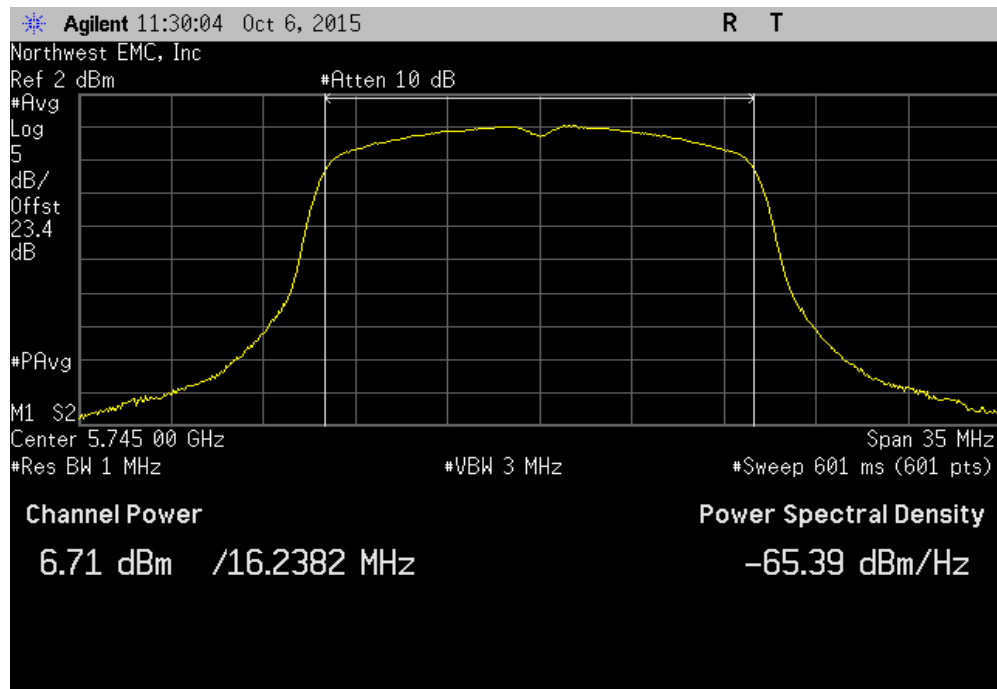


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
8.725	4.2	12.9	30	Pass		

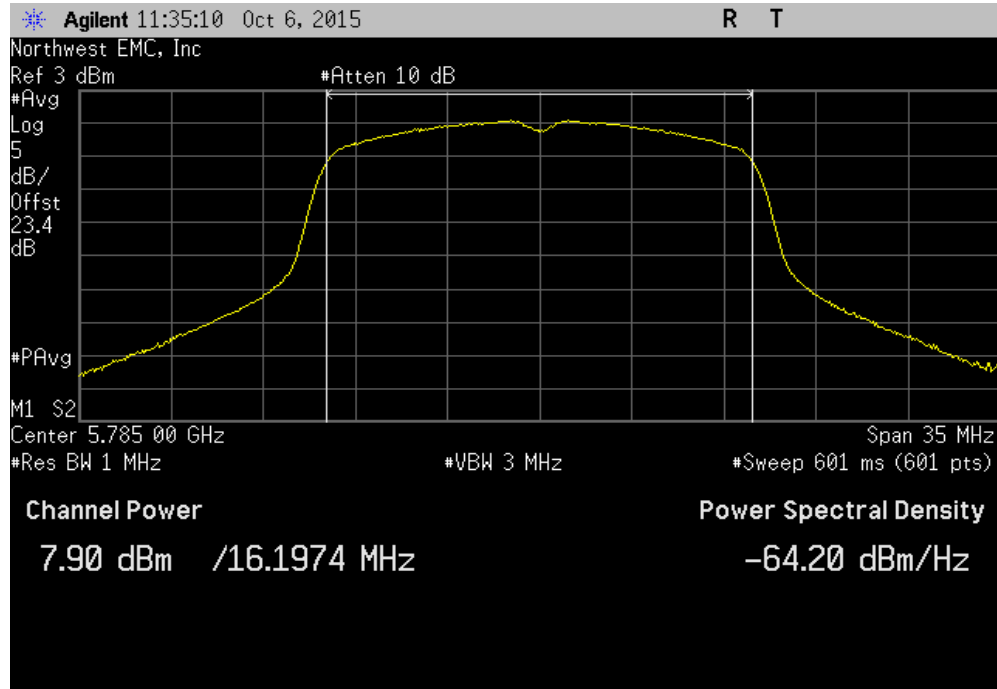


Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
6.714	5.2	11.9	30	Pass		

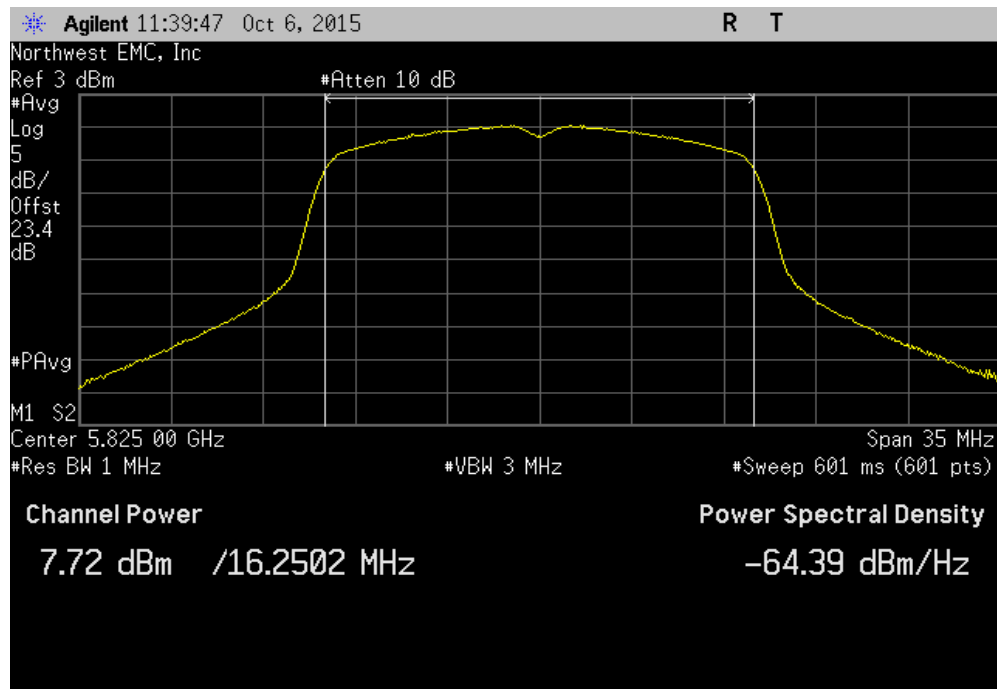


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
7.895	5.2	13.1	30	Pass		

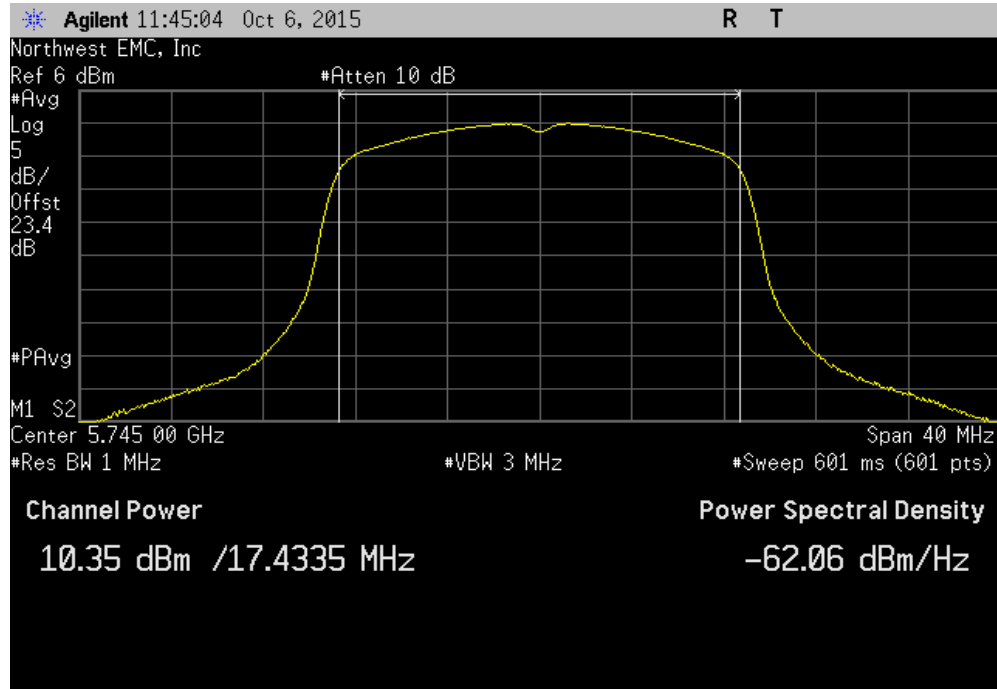


Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
7.719	5.3	13	30	Pass		

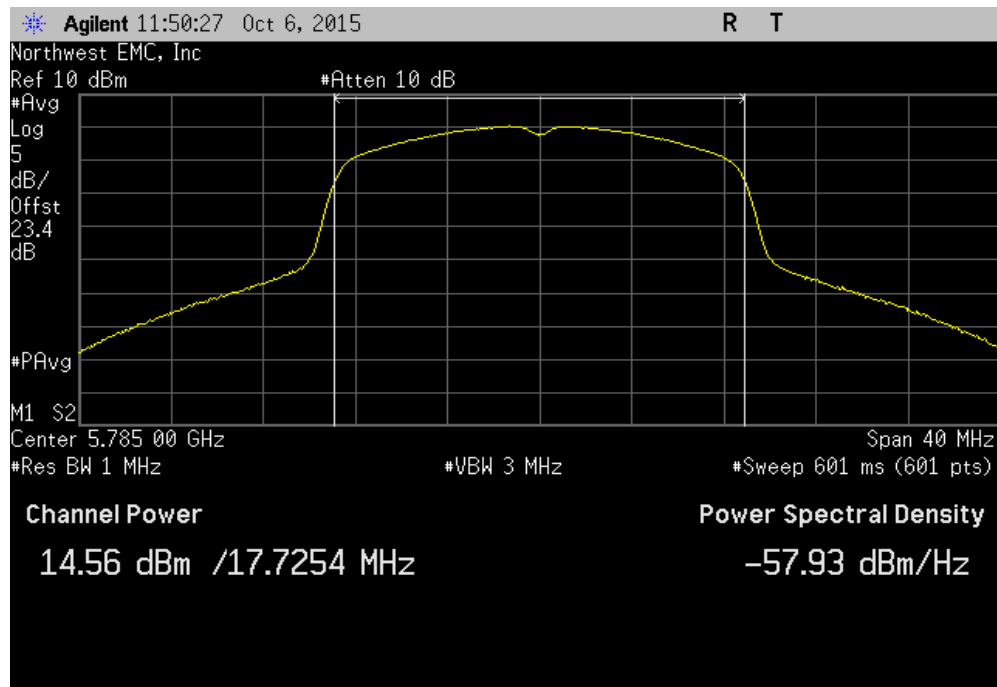


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
10.352	1.2	11.5	30	Pass		

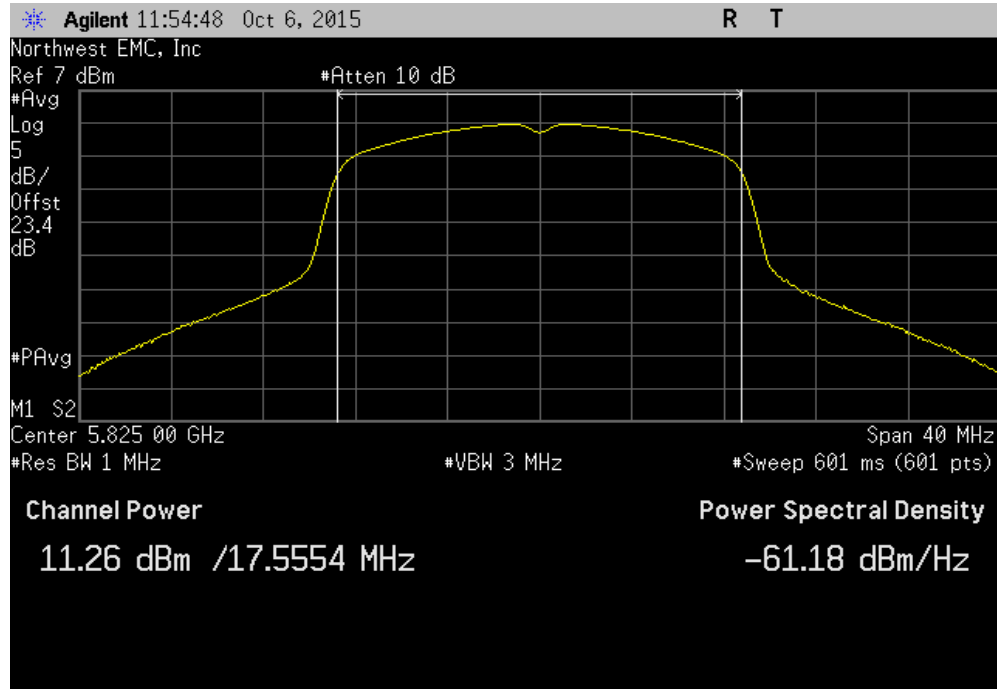


Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
14.556	1.2	15.7	30	Pass		

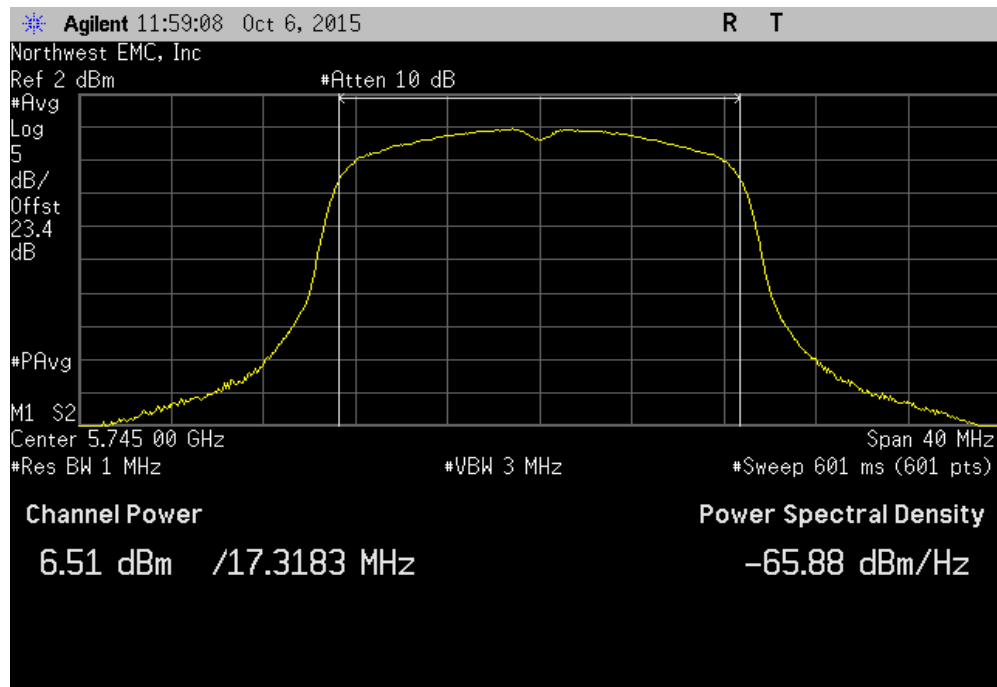


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Avg Cond	Duty Cycle		Value	Limit	Results	
Pwr (dBm)	Factor (dB)		(dBm)	(dBm)		
11.259	1.2		12.4	30	Pass	

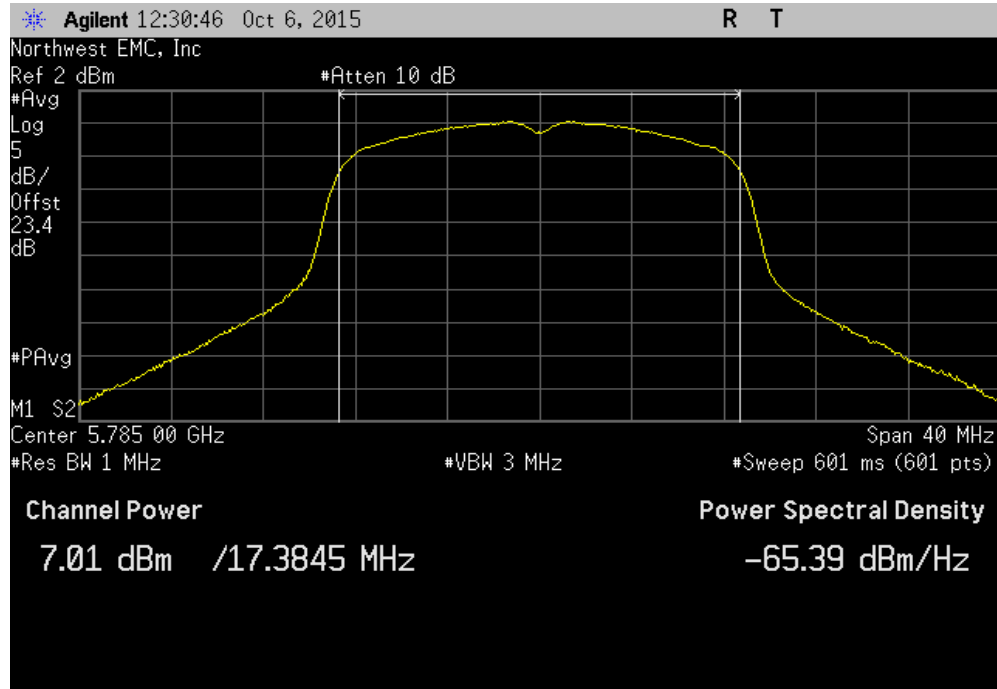


Ant 2, 802.11(n) MCS7, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Avg Cond	Duty Cycle		Value	Limit	Results	
Pwr (dBm)	Factor (dB)		(dBm)	(dBm)		
6.507	5.5		12	30	Pass	

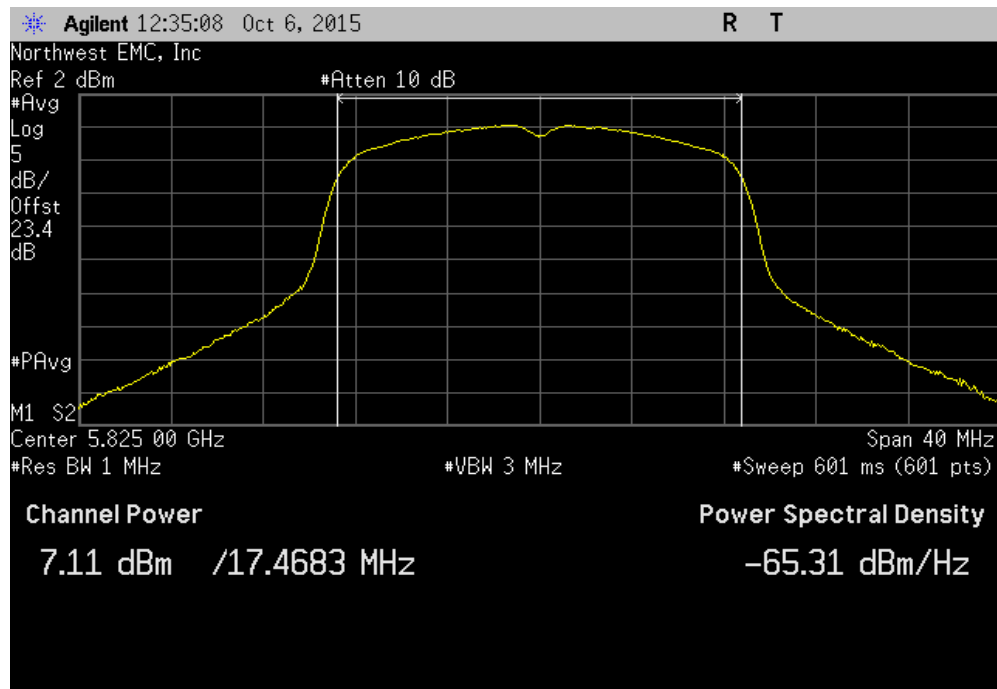


MAXIMUM CONDUCTED OUTPUT POWER

Ant 2, 802.11(n) MCS7, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
7.01	5.5	12.5	30	Pass		



Ant 2, 802.11(n) MCS7, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
7.115	5.5	12.6	30	Pass		



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)
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFE	6/22/2015	12
Cable	ESM Cable Corp.	TTBJ-141 KMKM-72	NC5	6/6/2015	12
Attenuator	Fairview Microwave	SA4014-20	TKE	1/16/2015	12
Block - DC	Fairview Microwave	SD3379	AMJ	6/6/2015	12
Generator - Signal	Agilent	N5183A	TIA	4/7/2014	24

TEST DESCRIPTION

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.

Per ANSI C63.10, the spectrum analyzer settings were as follows:

- RBW = Approx. 1% of the emission bandwidth (B).
- VBW = > RBW
- Detector = Peak
-
- Trace mode = 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 and to utilize the emission bandwidth for setting the channel power integration bandwidth during conducted output power testing.

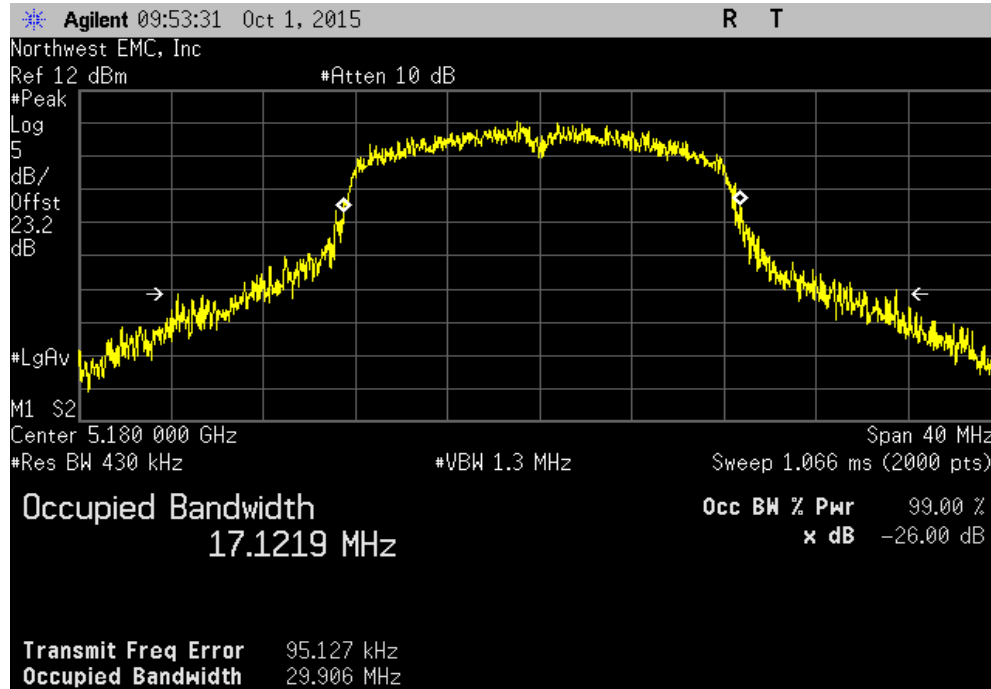
EMISSION BANDWIDTH

EUT: Precor Wi-Fi / Bluetooth Module Model 303346		Work Order: PRCR0230	
Serial Number: None		Date: 10/06/15	
Customer: Precor, Inc.		Temperature: 23°C	
Attendees: Rich Whitbeck		Humidity: 46%	
Project: None		Barometric Pres.: 1015mb	
Tested by: Richard Mellroth		Power: 110VAC/60Hz	
TEST SPECIFICATIONS		Job Site: NC02	
FCC 15.407:2015		Test Method	
		ANSI C63.10:2013	
COMMENTS			
Power settings at Maximum.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature 	
		Value	Limit (N/A)
Ant 1			
802.11(a) 6 Mbps			
5150 - 5250 MHz Band			
Low Channel 36, 5180 MHz		29.906 MHz	N/A
High Channel 48, 5240 MHz		29.093 MHz	N/A
5250 - 5350 MHz Band			
Low Channel 52, 5260 MHz		24.355 MHz	N/A
High Channel 64, 5320 MHz		23.968 MHz	N/A
5470 - 5725 MHz Band			
Low Channel 100, 5500 MHz		25.764 MHz	N/A
Mid Channel 120, 5600 MHz		32.519 MHz	N/A
High Channel 140, 5700 MHz		23.768 MHz	N/A
802.11(a) 36 Mbps			
5150 - 5250 MHz Band			
Low Channel 36, 5180 MHz		25.717 MHz	N/A
High Channel 48, 5240 MHz		23.995 MHz	N/A
5250 - 5350 MHz Band			
Low Channel 52, 5260 MHz		23.47 MHz	N/A
High Channel 64, 5320 MHz		22.405 MHz	N/A
5470 - 5725 MHz Band			
Low Channel 100, 5500 MHz		22.428 MHz	N/A
Mid Channel 120, 5600 MHz		25.685 MHz	N/A
High Channel 140, 5700 MHz		24.035 MHz	N/A
802.11(a) 54 Mbps			
5150 - 5250 MHz Band			
Low Channel 36, 5180 MHz		23.986 MHz	N/A
High Channel 48, 5240 MHz		23.306 MHz	N/A
5250 - 5350 MHz Band			
Low Channel 52, 5260 MHz		22.852 MHz	N/A
High Channel 64, 5320 MHz		20.377 MHz	N/A
5470 - 5725 MHz Band			
Low Channel 100, 5500 MHz		21.835 MHz	N/A
Mid Channel 120, 5600 MHz		22.94 MHz	N/A
High Channel 140, 5700 MHz		22.405 MHz	N/A
802.11(n) MCS0			
5150 - 5250 MHz Band			
Low Channel 36, 5180 MHz		30.135 MHz	N/A
High Channel 48, 5240 MHz		28.766 MHz	N/A
5250 - 5350 MHz Band			
Low Channel 52, 5260 MHz		24.556 MHz	N/A
High Channel 64, 5320 MHz		25.747 MHz	N/A
5470 - 5725 MHz Band			
Low Channel 100, 5500 MHz		27.215 MHz	N/A
Mid Channel 120, 5600 MHz		33.359 MHz	N/A
High Channel 140, 5700 MHz		23.739 MHz	N/A
802.11(n) MCS7			
5150 - 5250 MHz Band			
Low Channel 36, 5180 MHz		24.052 MHz	N/A
High Channel 48, 5240 MHz		23.442 MHz	N/A
5250 - 5350 MHz Band			
Low Channel 52, 5260 MHz		23.251 MHz	N/A
High Channel 64, 5320 MHz		25.226 MHz	N/A
5470 - 5725 MHz Band			
Low Channel 100, 5500 MHz		22.816 MHz	N/A
Mid Channel 120, 5600 MHz		25.01 MHz	N/A
High Channel 140, 5700 MHz		22.973 MHz	N/A
Ant 2			
802.11(a) 6 Mbps			
5150 - 5250 MHz Band			
Low Channel 36, 5180 MHz		28.091 MHz	N/A
High Channel 48, 5240 MHz		25.901 MHz	N/A
5250 - 5350 MHz Band			
Low Channel 52, 5260 MHz		25.171 MHz	N/A
High Channel 64, 5320 MHz		23.07 MHz	N/A
5470 - 5725 MHz Band			
Low Channel 100, 5500 MHz		28.085 MHz	N/A
Mid Channel 120, 5600 MHz		33.302 MHz	N/A
High Channel 140, 5700 MHz		23.424 MHz	N/A
802.11(a) 36 Mbps			
5150 - 5250 MHz Band			
Low Channel 36, 5180 MHz		23.039 MHz	N/A
High Channel 48, 5240 MHz		24.262 MHz	N/A

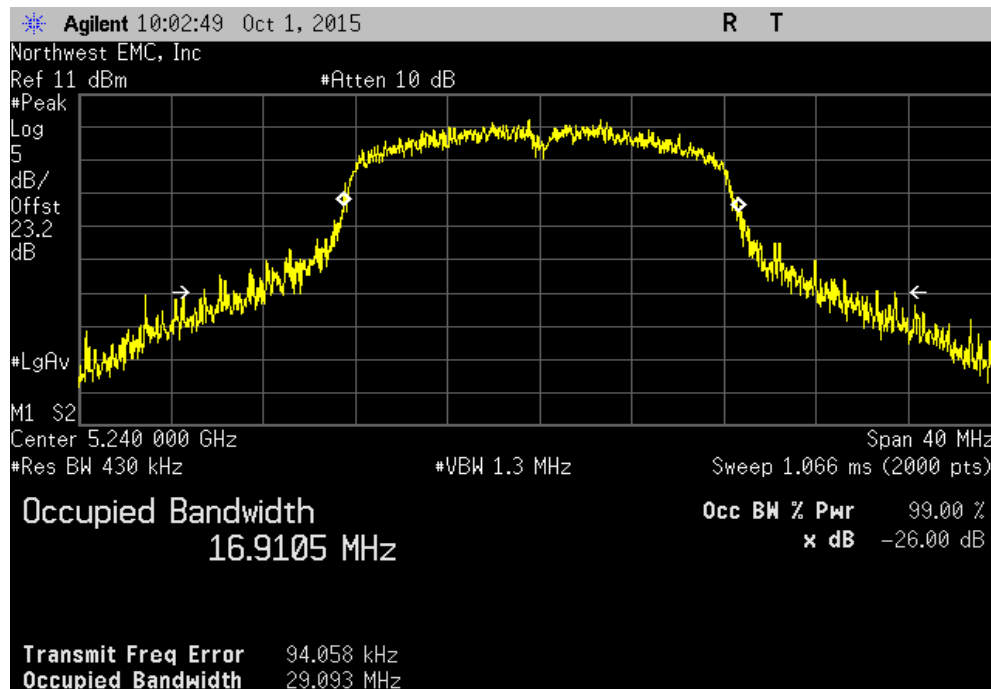
5250 - 5350 MHz Band				
	Low Channel 52, 5260 MHz	22.968 MHz	N/A	N/A
	High Channel 64, 5320 MHz	22.816 MHz	N/A	N/A
5470 - 5725 MHz Band				
	Low Channel 100, 5500 MHz	23.505 MHz	N/A	N/A
	Mid Channel 120, 5600 MHz	23.592 MHz	N/A	N/A
	High Channel 140, 5700 MHz	23.031 MHz	N/A	N/A
802.11(a) 54 Mbps				
5150 - 5250 MHz Band				
	Low Channel 36, 5180 MHz	22.619 MHz	N/A	N/A
	High Channel 48, 5240 MHz	21.222 MHz	N/A	N/A
5250 - 5350 MHz Band				
	Low Channel 52, 5260 MHz	22.787 MHz	N/A	N/A
	High Channel 64, 5320 MHz	22.372 MHz	N/A	N/A
5470 - 5725 MHz Band				
	Low Channel 100, 5500 MHz	21.992 MHz	N/A	N/A
	Mid Channel 120, 5600 MHz	22.91 MHz	N/A	N/A
	High Channel 140, 5700 MHz	22.56 MHz	N/A	N/A
802.11(n) MCS0				
5150 - 5250 MHz Band				
	Low Channel 36, 5180 MHz	27.391 MHz	N/A	N/A
	High Channel 48, 5240 MHz	28.414 MHz	N/A	N/A
5250 - 5350 MHz Band				
	Low Channel 52, 5260 MHz	25.112 MHz	N/A	N/A
	High Channel 64, 5320 MHz	25.716 MHz	N/A	N/A
5470 - 5725 MHz Band				
	Low Channel 100, 5500 MHz	25.58 MHz	N/A	N/A
	Mid Channel 120, 5600 MHz	34.928 MHz	N/A	N/A
	High Channel 140, 5700 MHz	25.219 MHz	N/A	N/A
802.11(n) MCS7				
5150 - 5250 MHz Band				
	Low Channel 36, 5180 MHz	22.86 MHz	N/A	N/A
	High Channel 48, 5240 MHz	21.992 MHz	N/A	N/A
5250 - 5350 MHz Band				
	Low Channel 52, 5260 MHz	22.82 MHz	N/A	N/A
	High Channel 64, 5320 MHz	24.425 MHz	N/A	N/A
5470 - 5725 MHz Band				
	Low Channel 100, 5500 MHz	23.577 MHz	N/A	N/A
	Mid Channel 120, 5600 MHz	24.753 MHz	N/A	N/A
	High Channel 140, 5700 MHz	22.04 MHz	N/A	N/A

EMISSION BANDWIDTH

Ant 1, 802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
				Value	Limit (N/A)	Result
				29.906 MHz	N/A	N/A

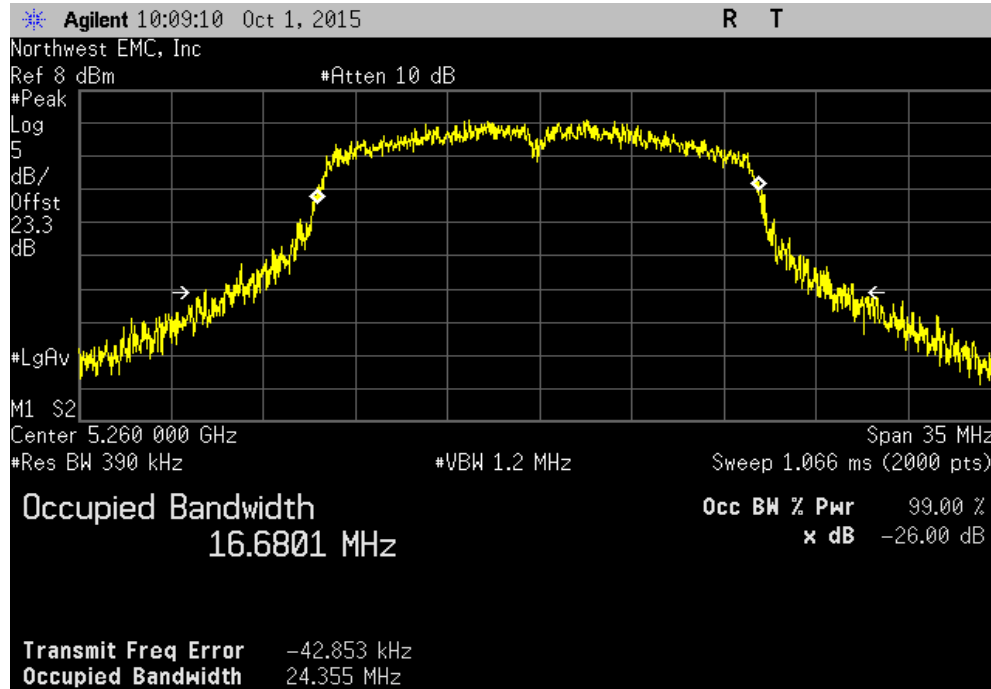


Ant 1, 802.11(a) 6 Mbps, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
				Value	Limit (N/A)	Result
				29.093 MHz	N/A	N/A

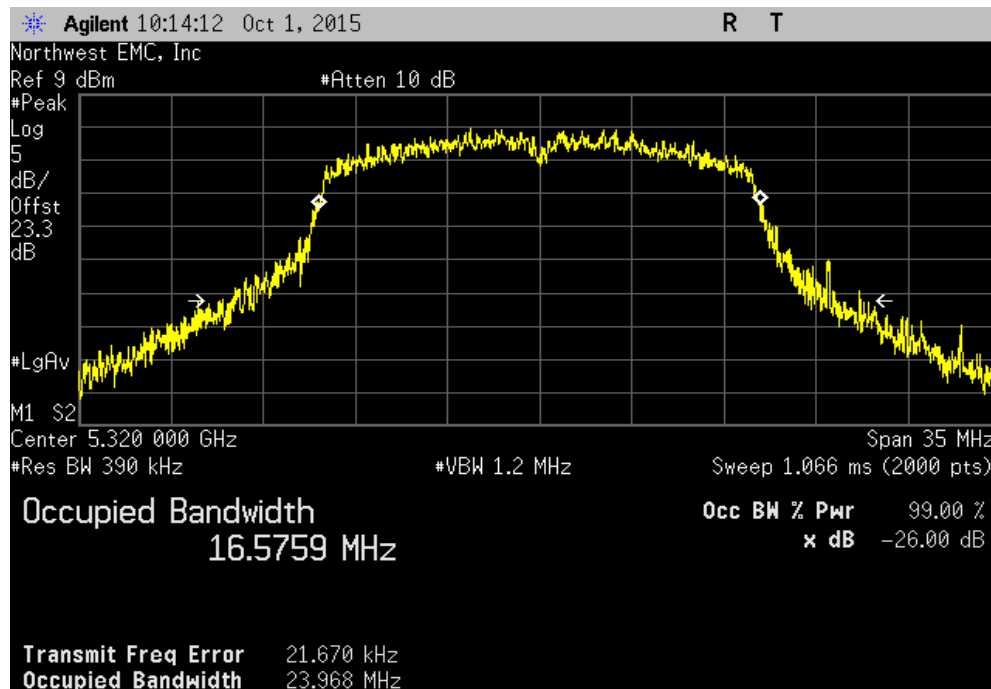


EMISSION BANDWIDTH

Ant 1, 802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
				Value	Limit (N/A)	Result
				24.355 MHz	N/A	N/A

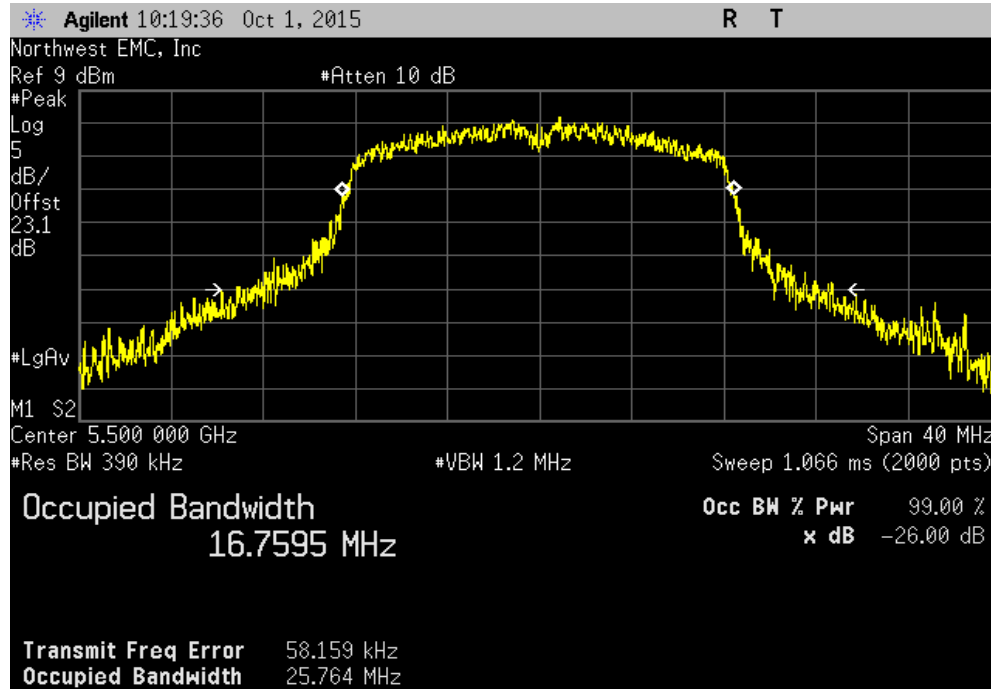


Ant 1, 802.11(a) 6 Mbps, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz						
				Value	Limit (N/A)	Result
				23.968 MHz	N/A	N/A

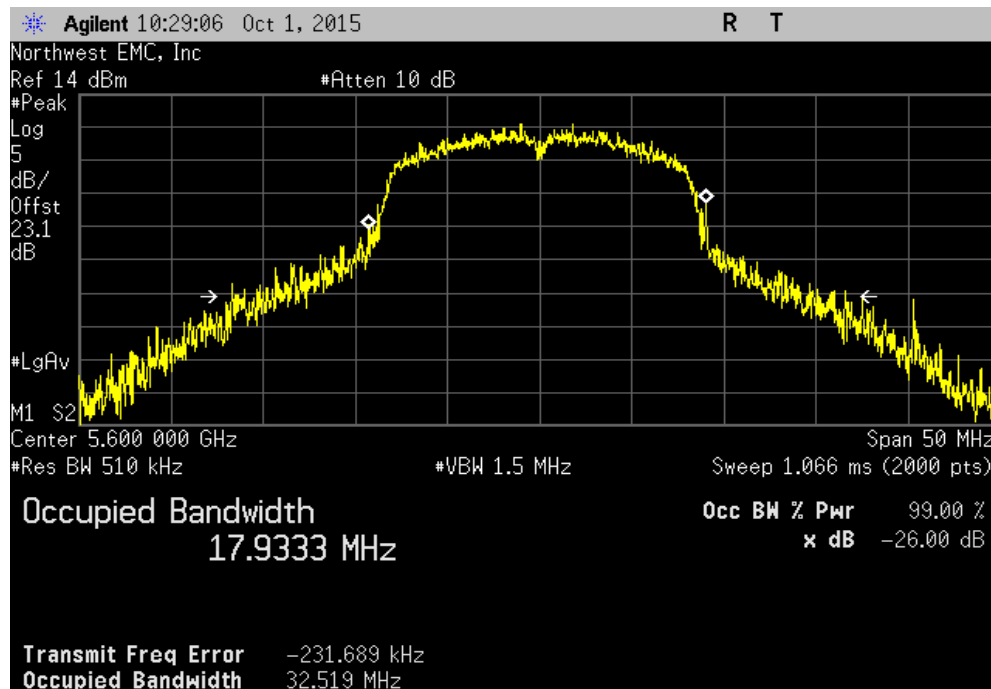


EMISSION BANDWIDTH

Ant 1, 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
				Value	Limit (N/A)	Result
				25.764 MHz	N/A	N/A

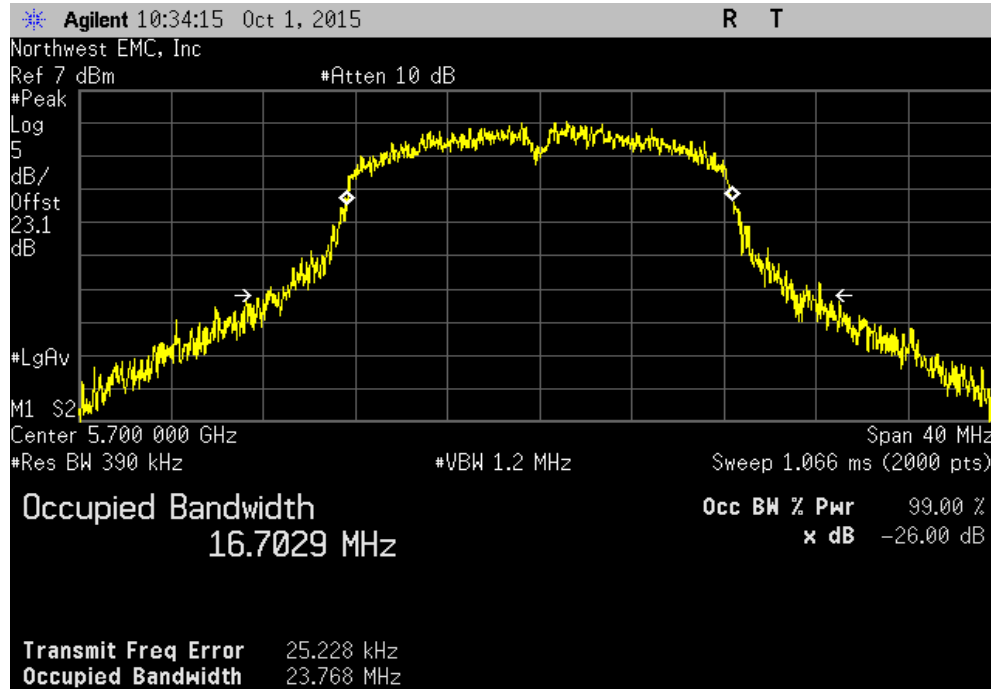


Ant 1, 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
				Value	Limit (N/A)	Result
				32.519 MHz	N/A	N/A

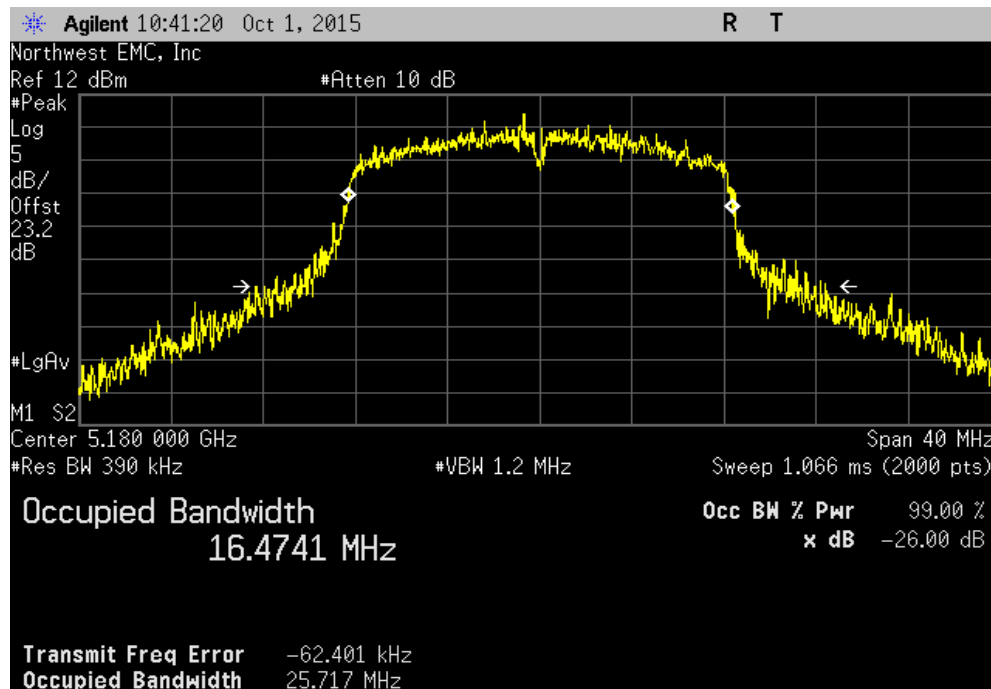


EMISSION BANDWIDTH

Ant 1, 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
				Value	Limit (N/A)	Result
				23.768 MHz	N/A	N/A

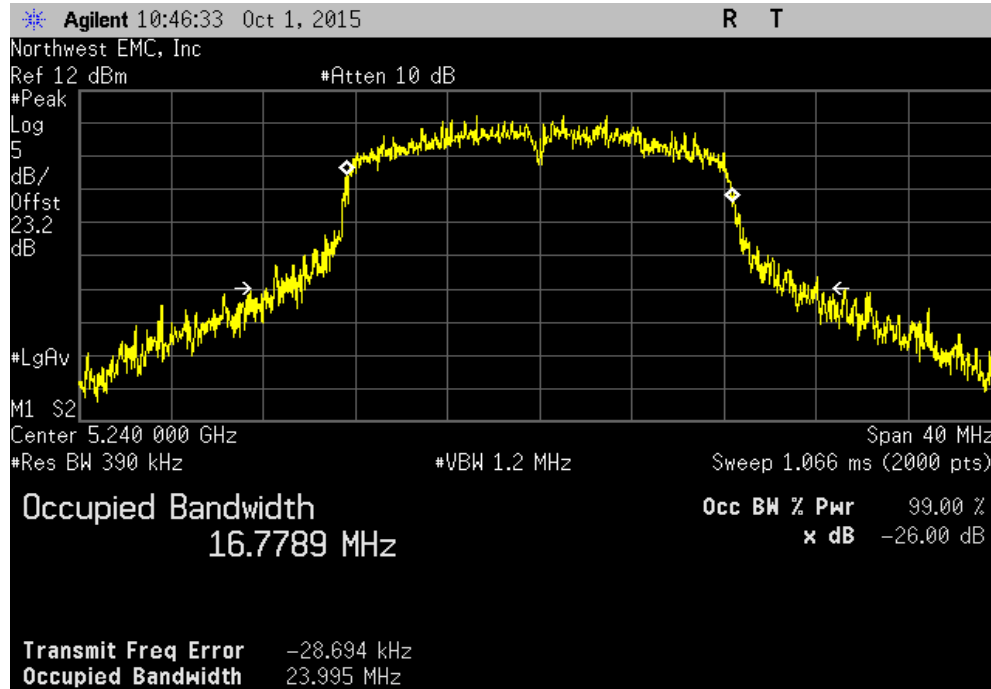


Ant 1, 802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
				Value	Limit (N/A)	Result
				25.717 MHz	N/A	N/A

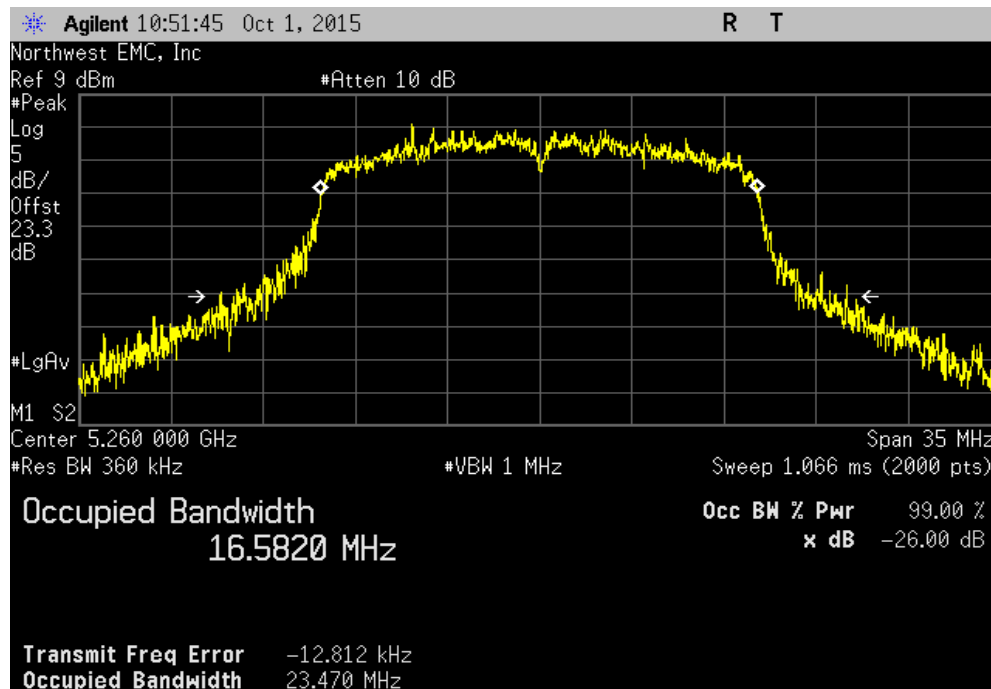


EMISSION BANDWIDTH

Ant 1, 802.11(a) 36 Mbps, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
				Value	Limit (N/A)	Result
				23.995 MHz	N/A	N/A

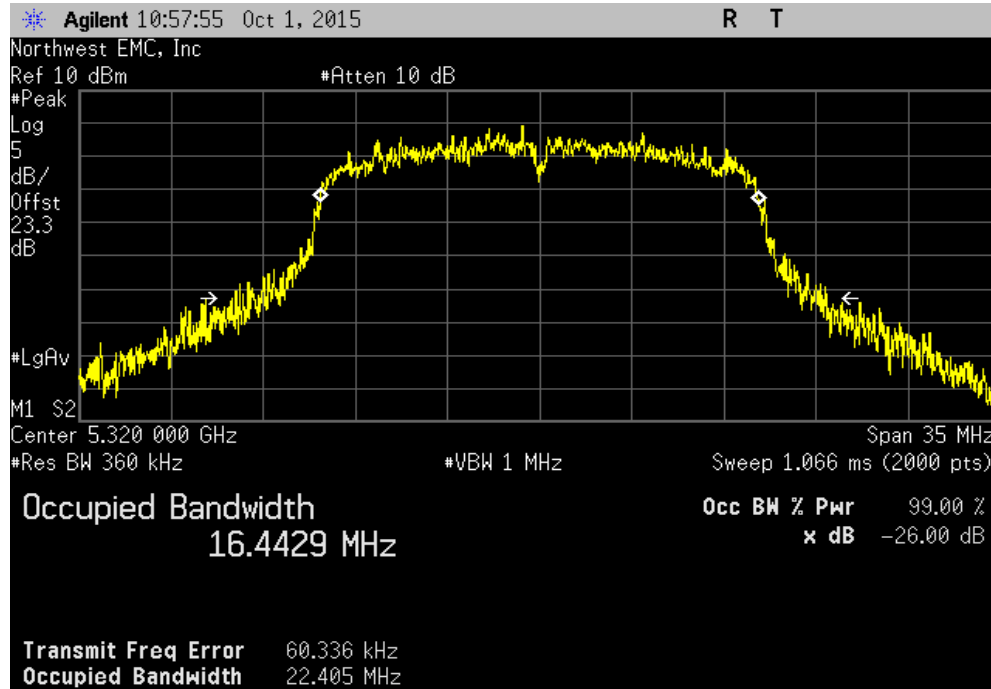


Ant 1, 802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
				Value	Limit (N/A)	Result
				23.47 MHz	N/A	N/A

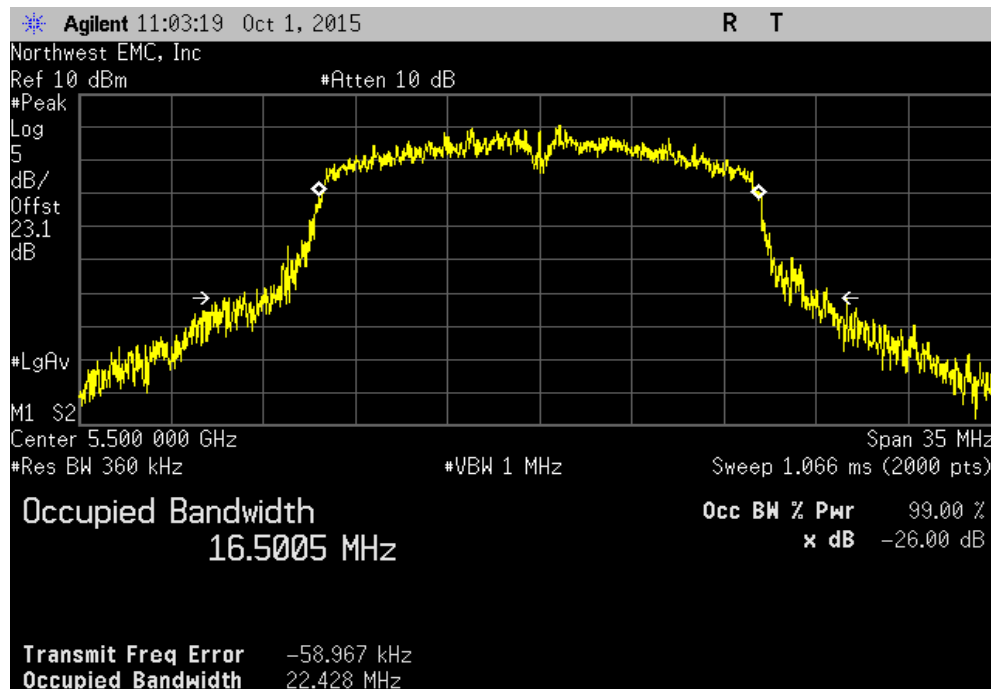


EMISSION BANDWIDTH

Ant 1, 802.11(a) 36 Mbps, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz						
				Value	Limit (N/A)	Result
				22.405 MHz	N/A	N/A

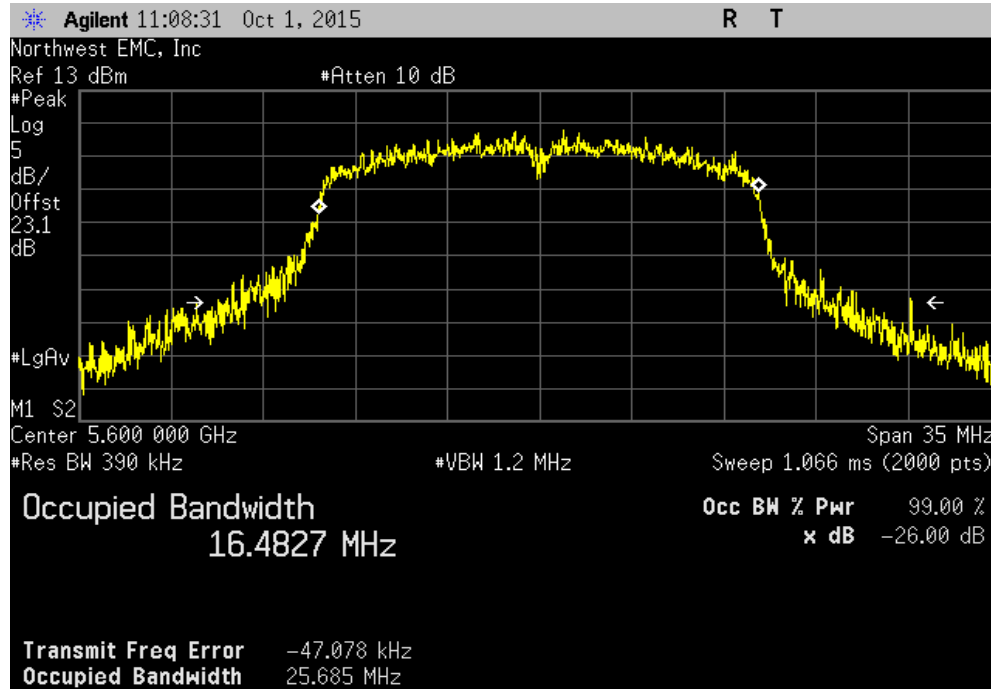


Ant 1, 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
				Value	Limit (N/A)	Result
				22.428 MHz	N/A	N/A

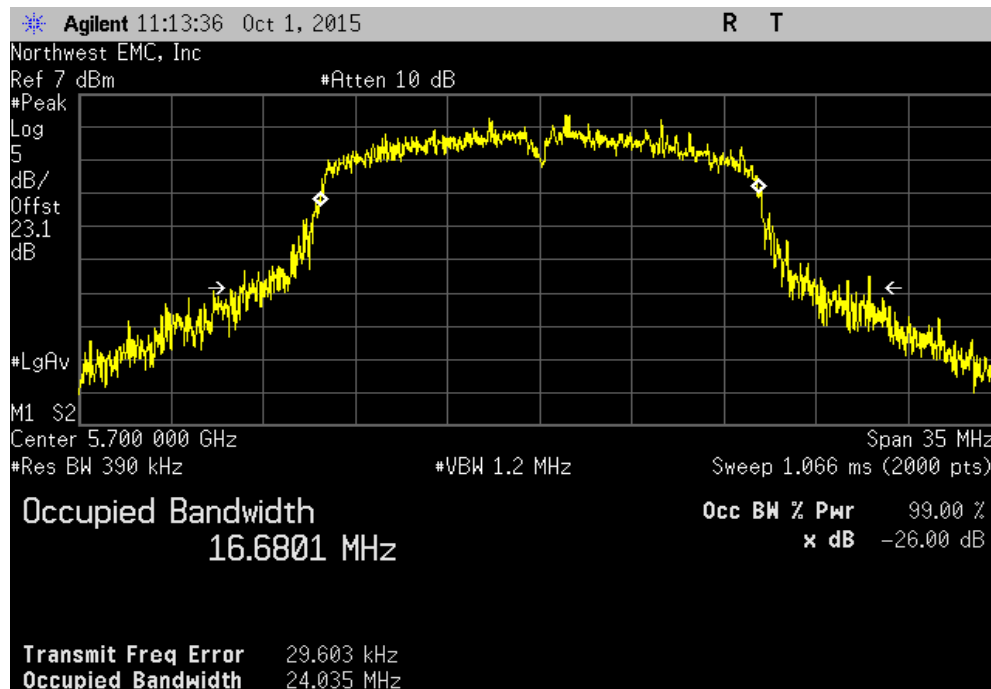


EMISSION BANDWIDTH

Ant 1, 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
				Value	Limit (N/A)	Result
				25.685 MHz	N/A	N/A

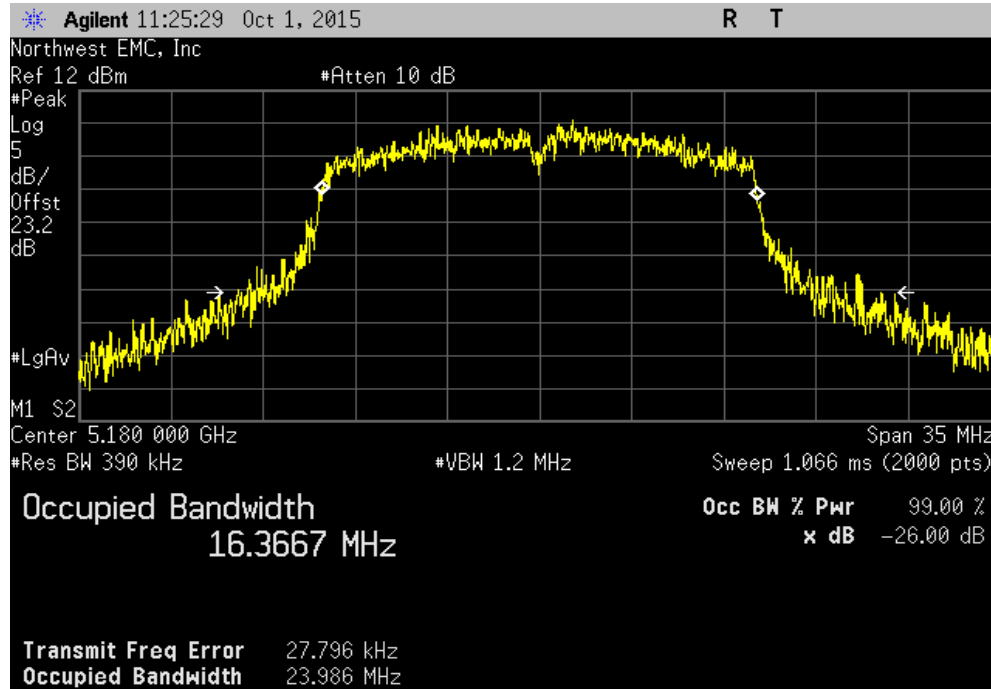


Ant 1, 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
				Value	Limit (N/A)	Result
				24.035 MHz	N/A	N/A

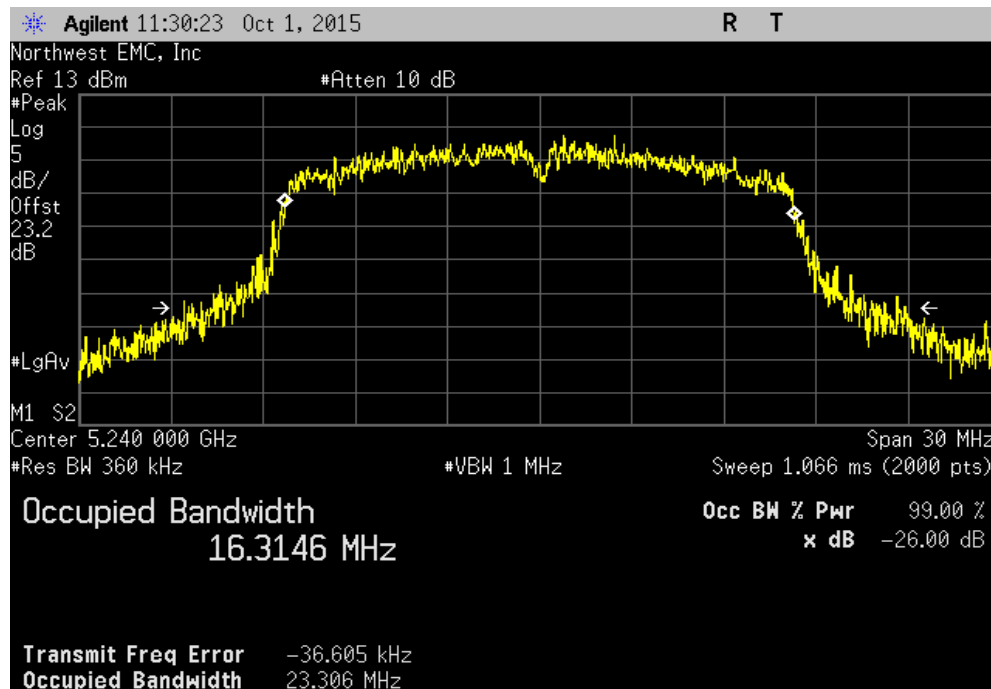


EMISSION BANDWIDTH

Ant 1, 802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
				Value	Limit (N/A)	Result
				23.986 MHz	N/A	N/A

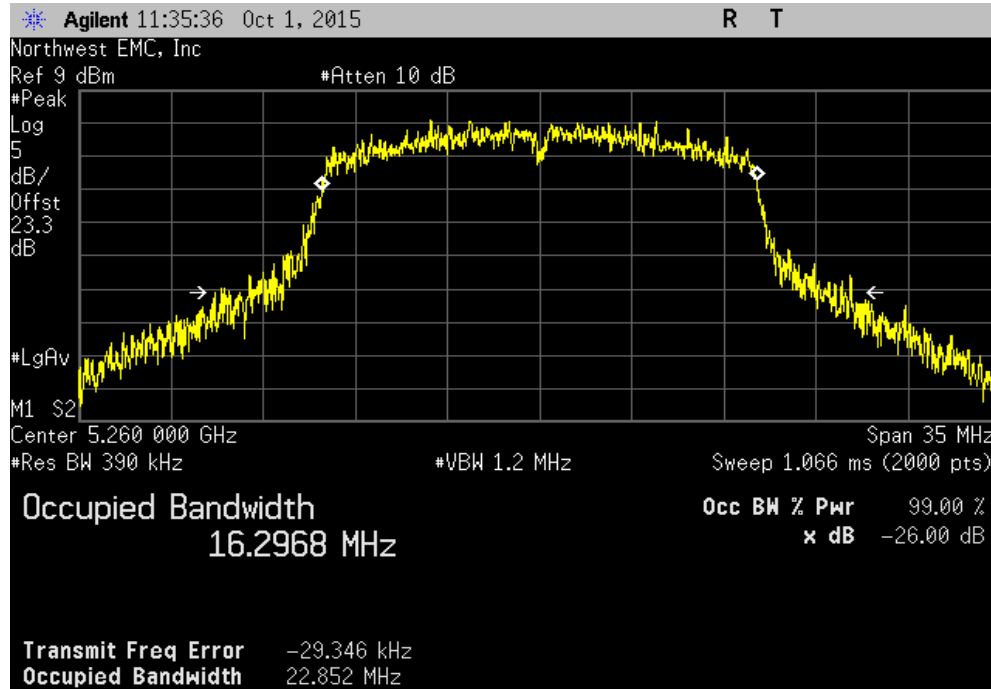


Ant 1, 802.11(a) 54 Mbps, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
				Value	Limit (N/A)	Result
				23.306 MHz	N/A	N/A

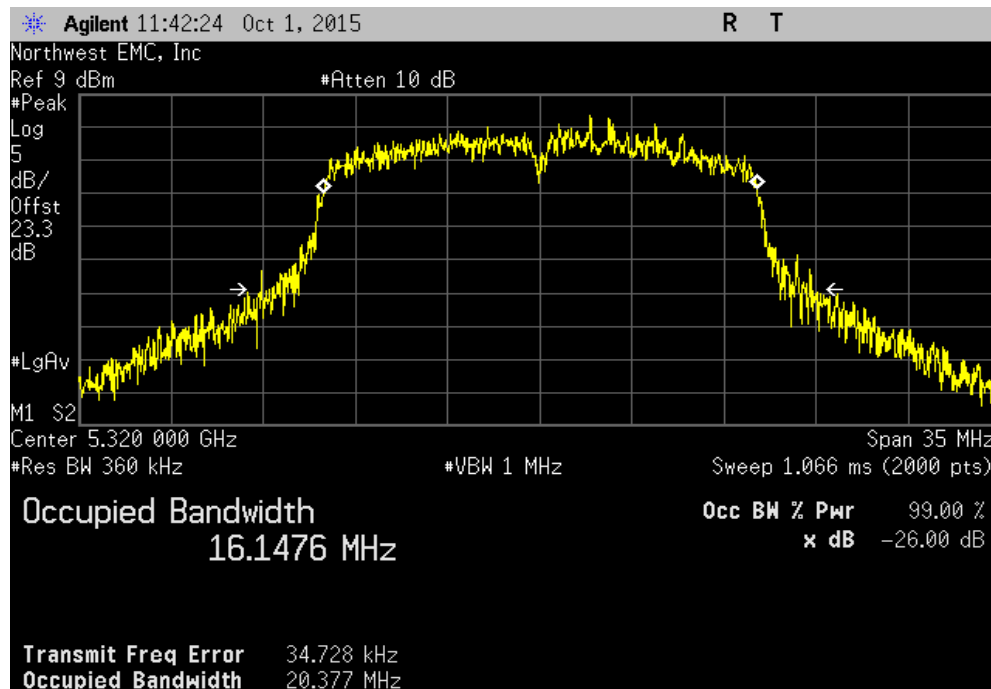


EMISSION BANDWIDTH

Ant 1, 802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
				Value	Limit (N/A)	Result
				22.852 MHz	N/A	N/A

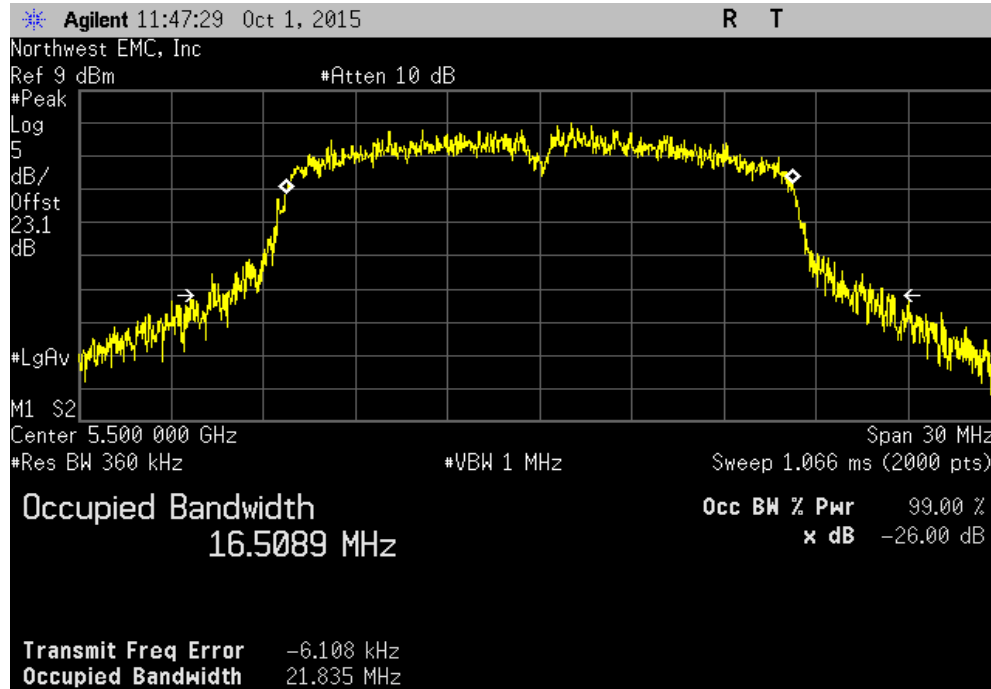


Ant 1, 802.11(a) 54 Mbps, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz						
				Value	Limit (N/A)	Result
				20.377 MHz	N/A	N/A

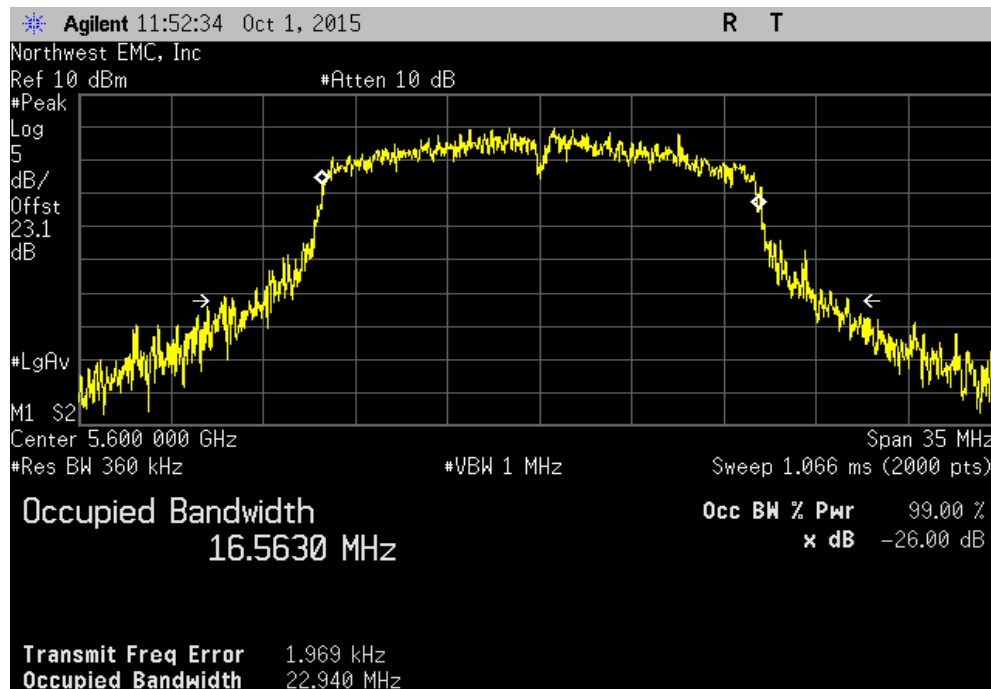


EMISSION BANDWIDTH

Ant 1, 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
				Value	Limit (N/A)	Result
				21.835 MHz	N/A	N/A

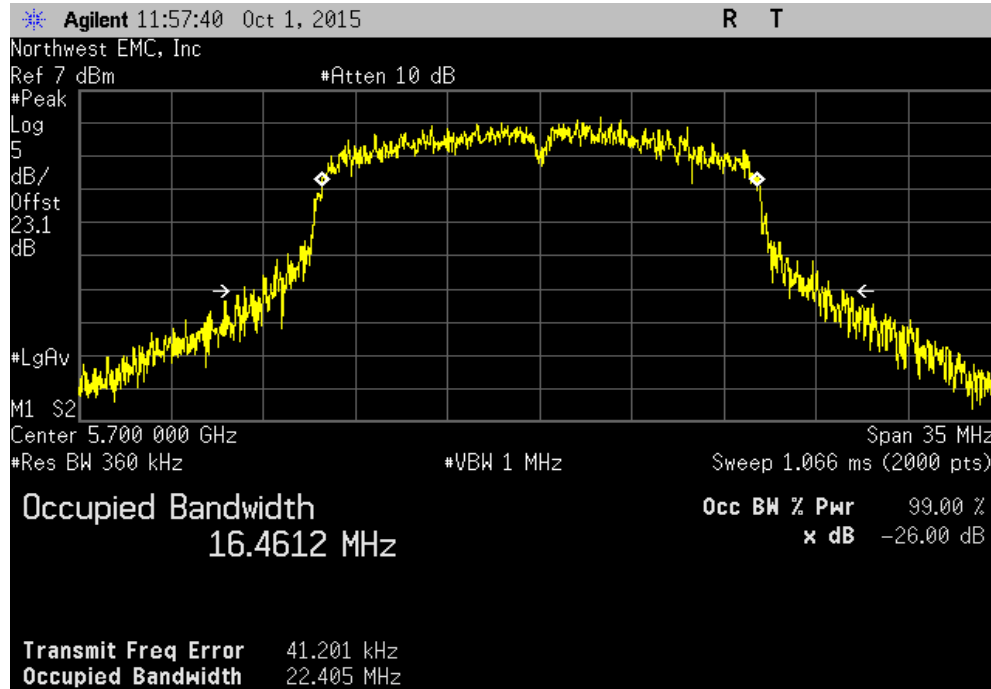


Ant 1, 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
				Value	Limit (N/A)	Result
				22.94 MHz	N/A	N/A

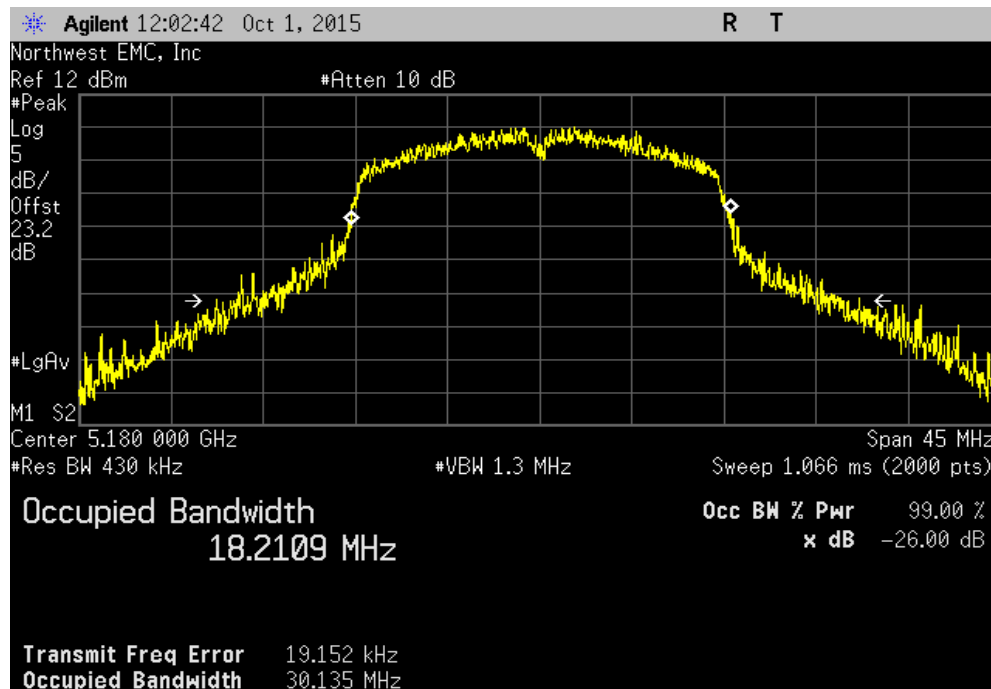


EMISSION BANDWIDTH

Ant 1, 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
				Value	Limit (N/A)	Result
				22.405 MHz	N/A	N/A

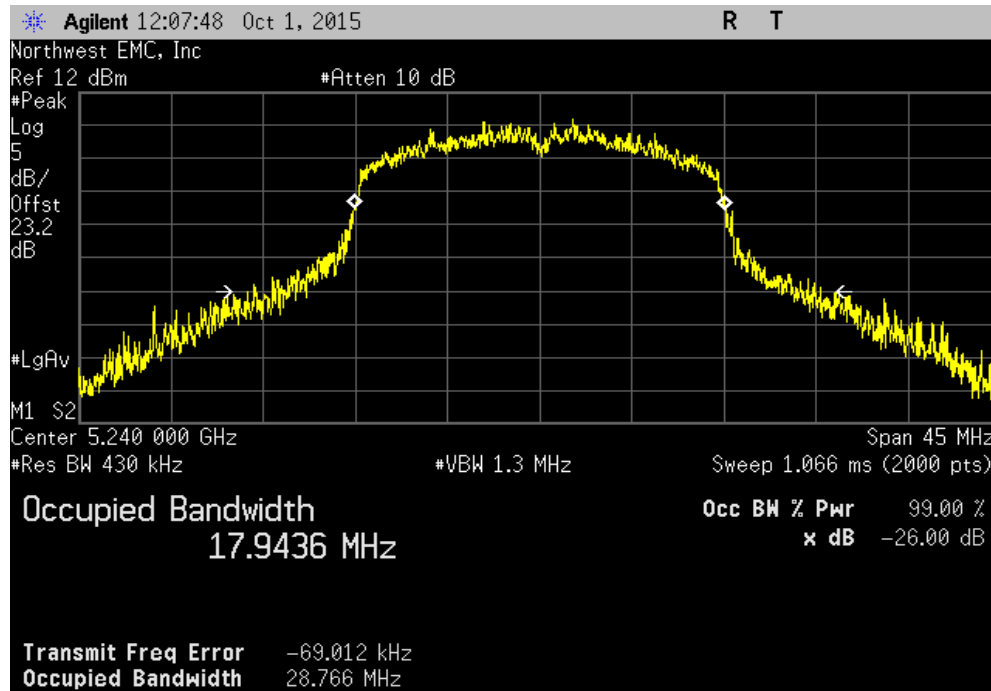


Ant 1, 802.11(n) MCS0, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
				Value	Limit (N/A)	Result
				30.135 MHz	N/A	N/A

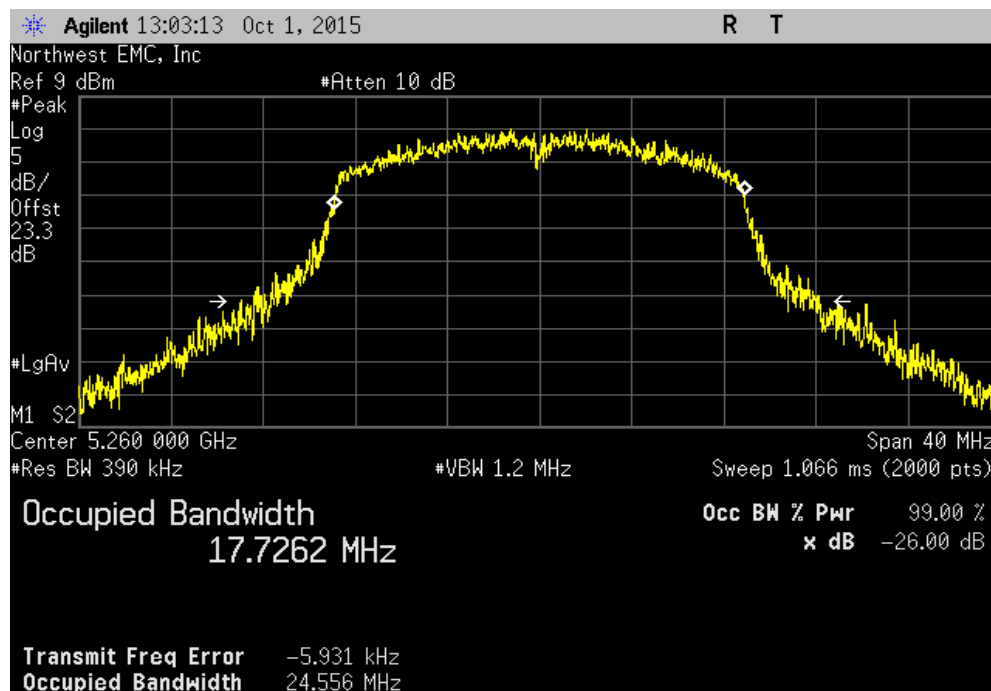


EMISSION BANDWIDTH

Ant 1, 802.11(n) MCS0, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
				Value	Limit (N/A)	Result
				28.766 MHz	N/A	N/A

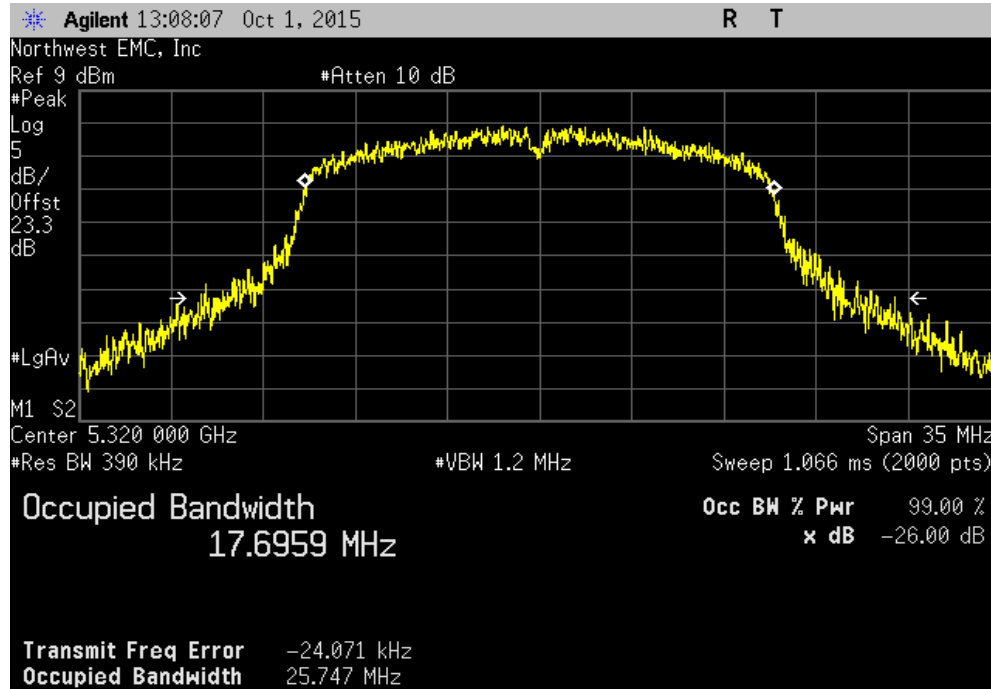


Ant 1, 802.11(n) MCS0, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
				Value	Limit (N/A)	Result
				24.556 MHz	N/A	N/A

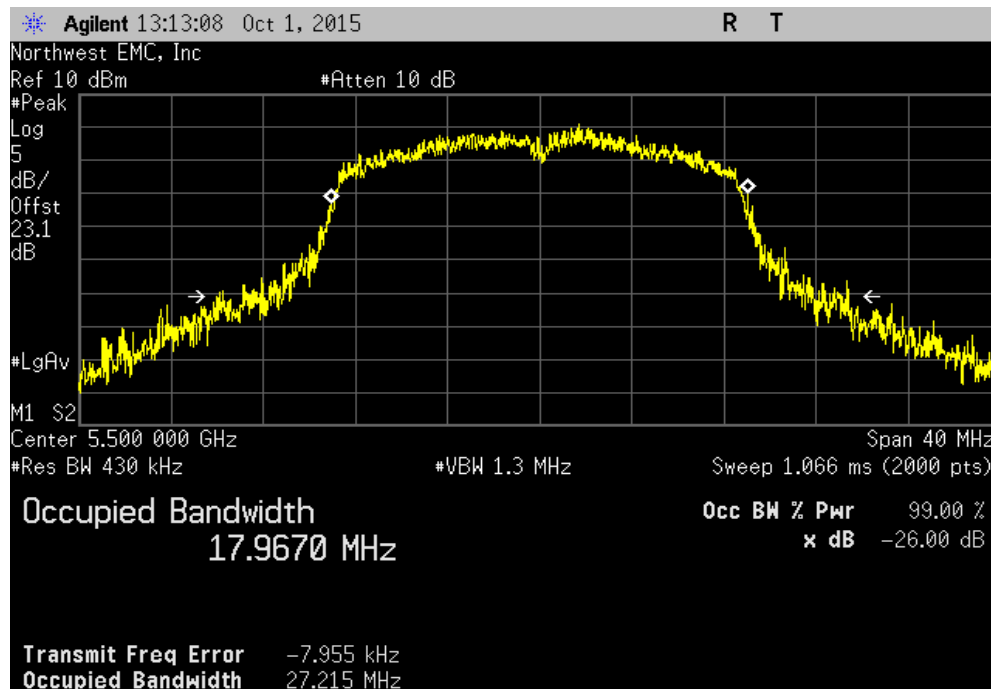


EMISSION BANDWIDTH

Ant 1, 802.11(n) MCS0, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz						
				Value	Limit (N/A)	Result
				25.747 MHz	N/A	N/A

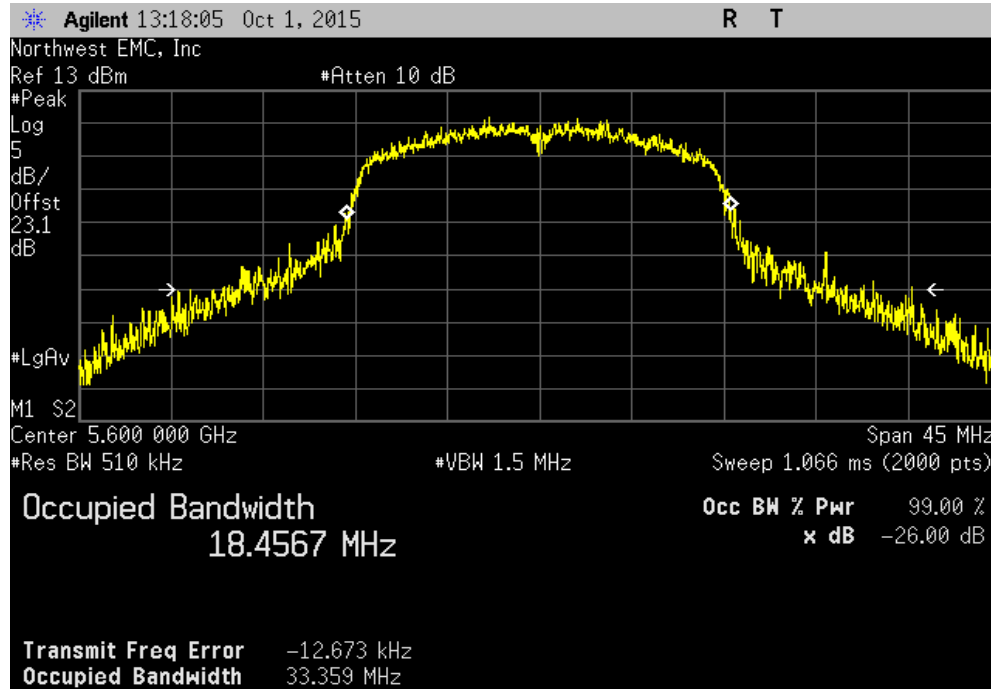


Ant 1, 802.11(n) MCS0, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
				Value	Limit (N/A)	Result
				27.215 MHz	N/A	N/A

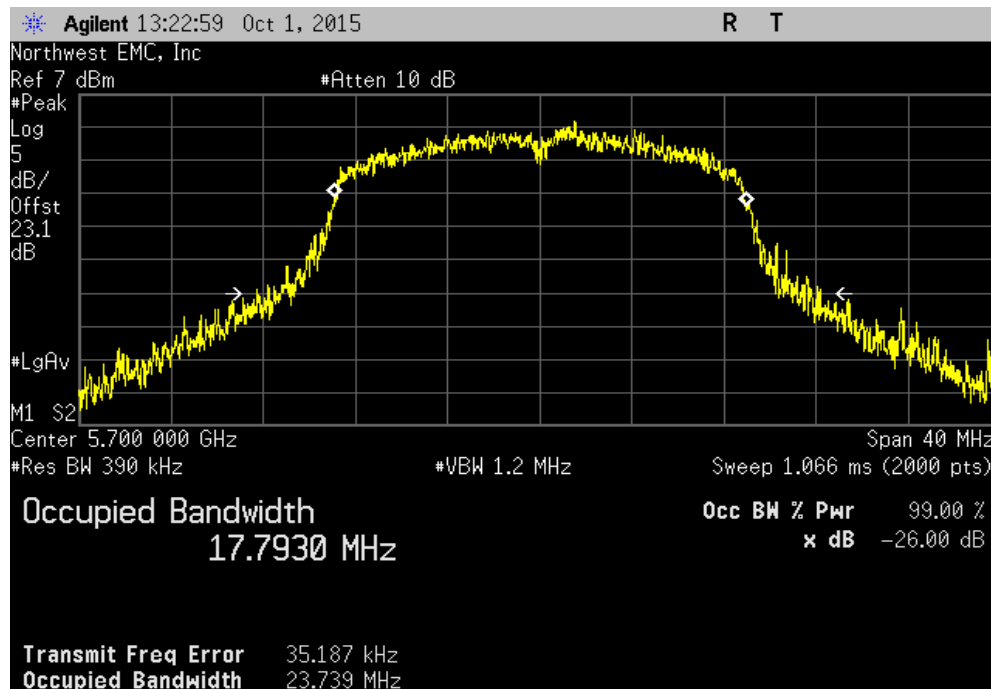


EMISSION BANDWIDTH

Ant 1, 802.11(n) MCS0, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
				Value	Limit (N/A)	Result
				33.359 MHz	N/A	N/A

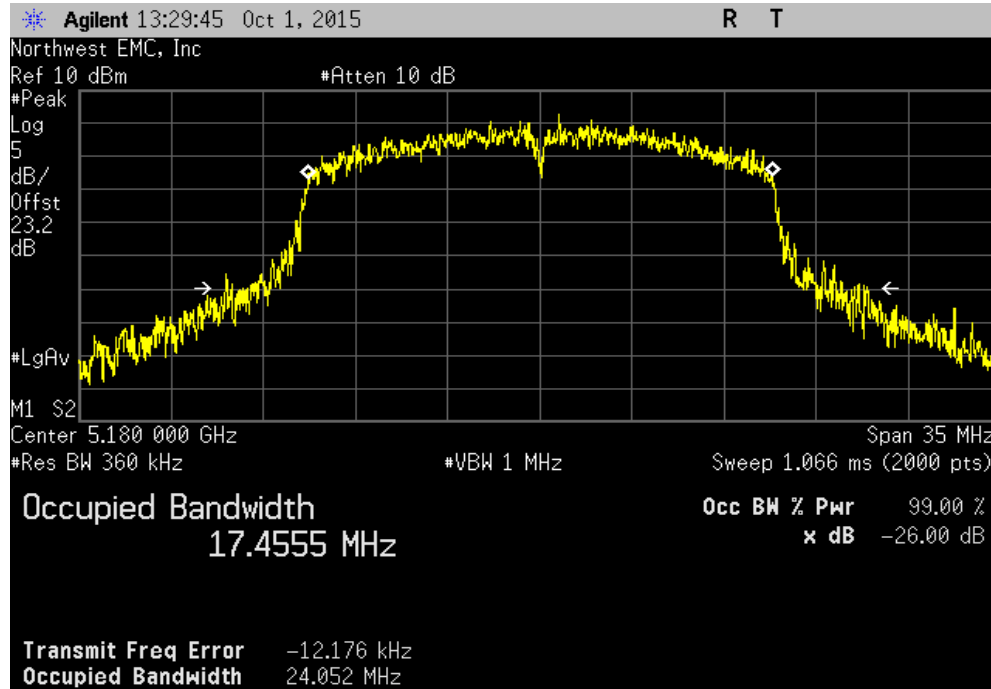


Ant 1, 802.11(n) MCS0, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
				Value	Limit (N/A)	Result
				23.739 MHz	N/A	N/A

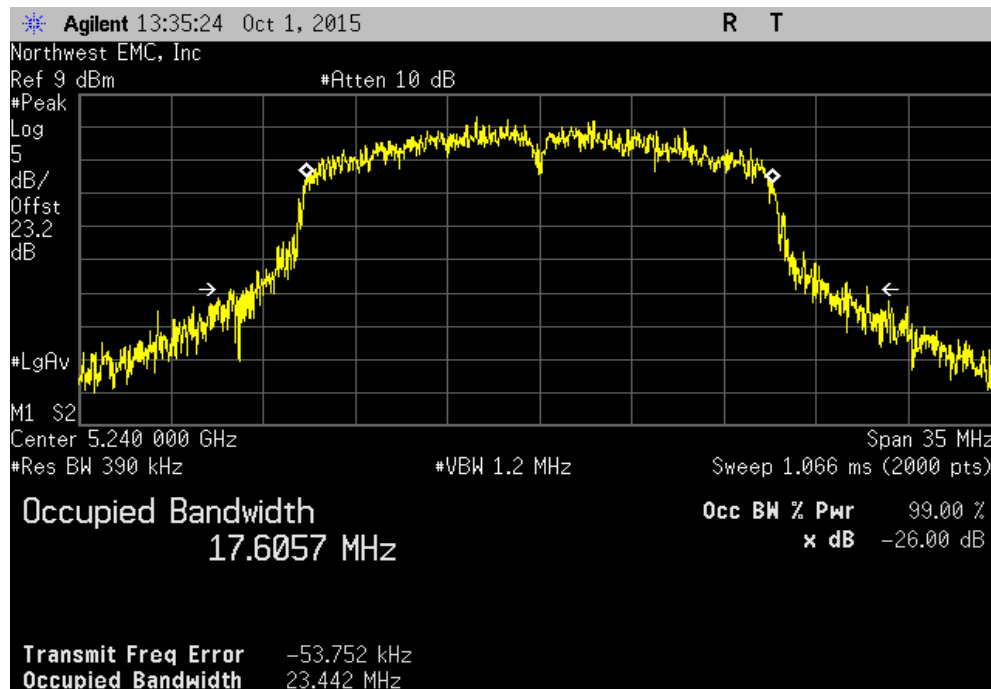


EMISSION BANDWIDTH

Ant 1, 802.11(n) MCS7, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
				Value	Limit (N/A)	Result
				24.052 MHz	N/A	N/A

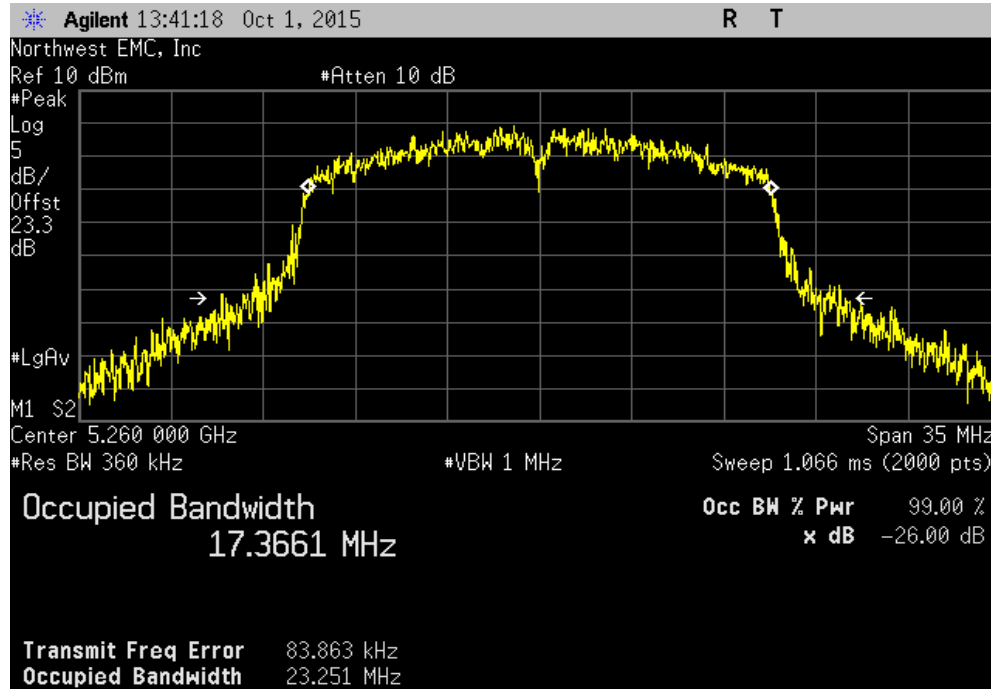


Ant 1, 802.11(n) MCS7, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
				Value	Limit (N/A)	Result
				23.442 MHz	N/A	N/A

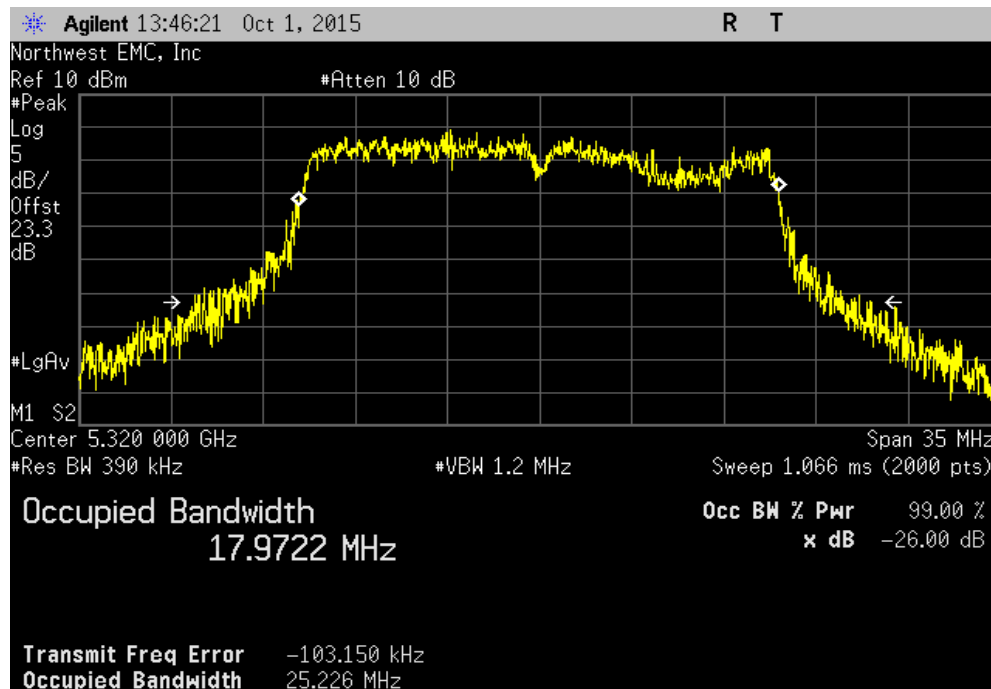


EMISSION BANDWIDTH

Ant 1, 802.11(n) MCS7, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
				Value	Limit (N/A)	Result
				23.251 MHz	N/A	N/A

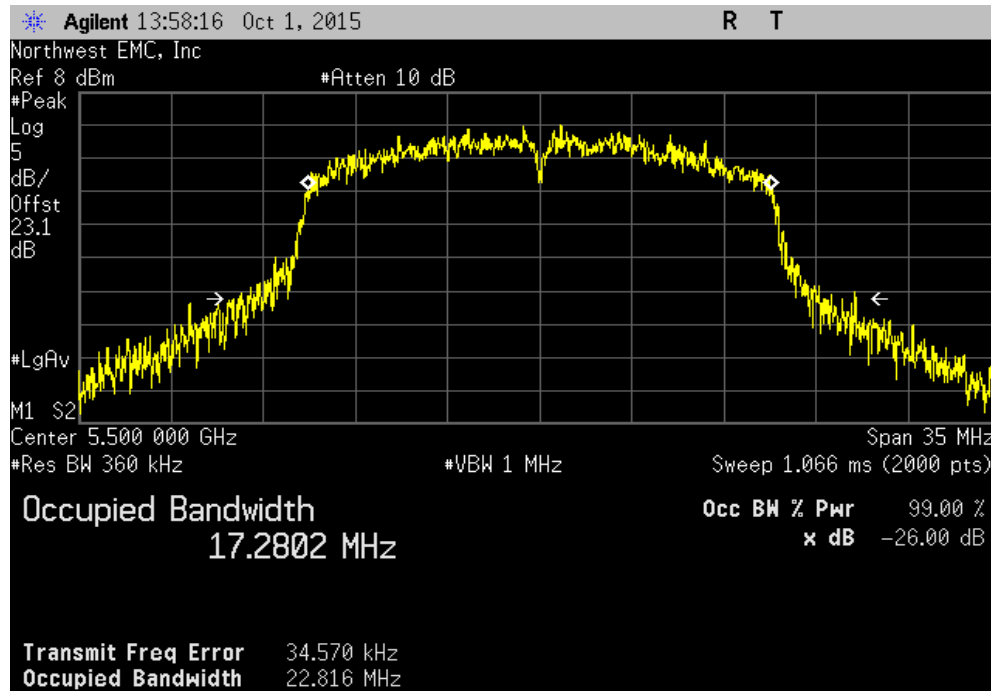


Ant 1, 802.11(n) MCS7, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz						
				Value	Limit (N/A)	Result
				25.226 MHz	N/A	N/A

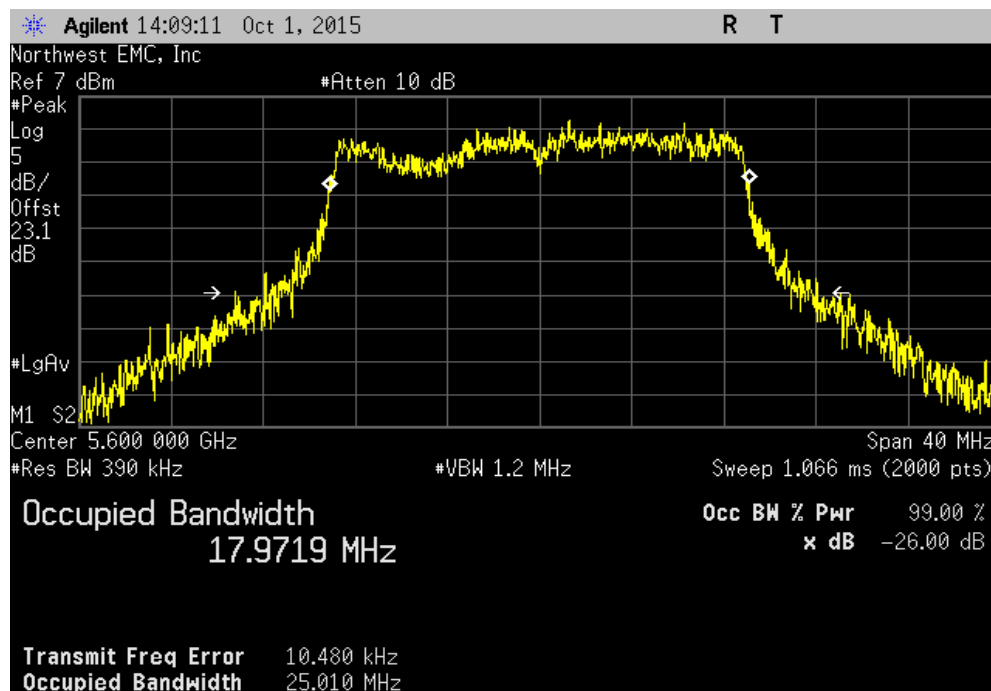


EMISSION BANDWIDTH

Ant 1, 802.11(n) MCS7, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
				Value	Limit (N/A)	Result
				22.816 MHz	N/A	N/A

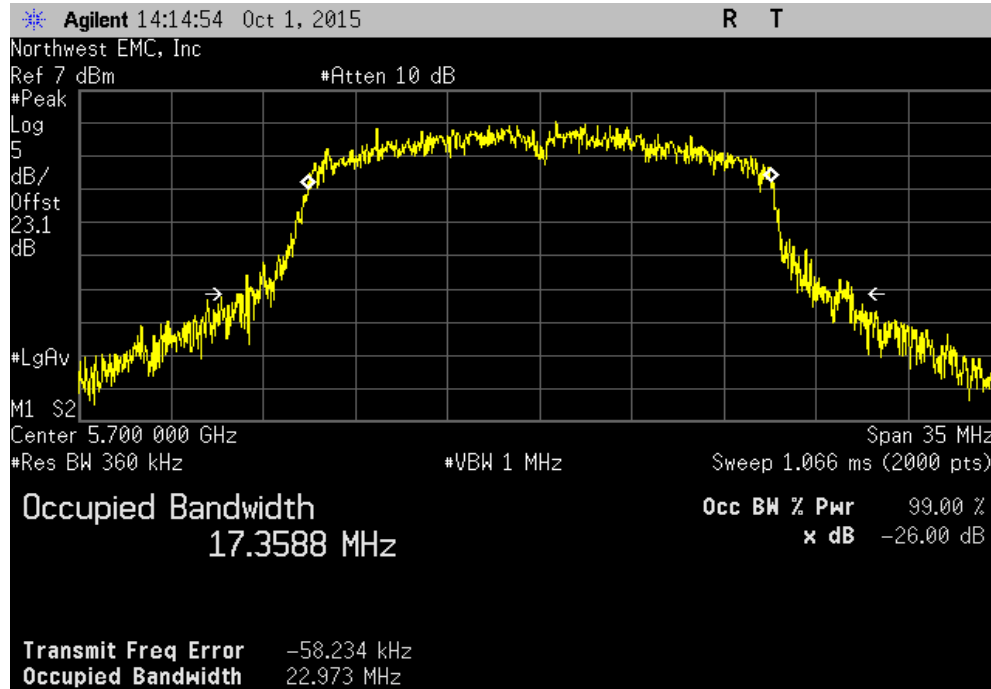


Ant 1, 802.11(n) MCS7, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
				Value	Limit (N/A)	Result
				25.01 MHz	N/A	N/A

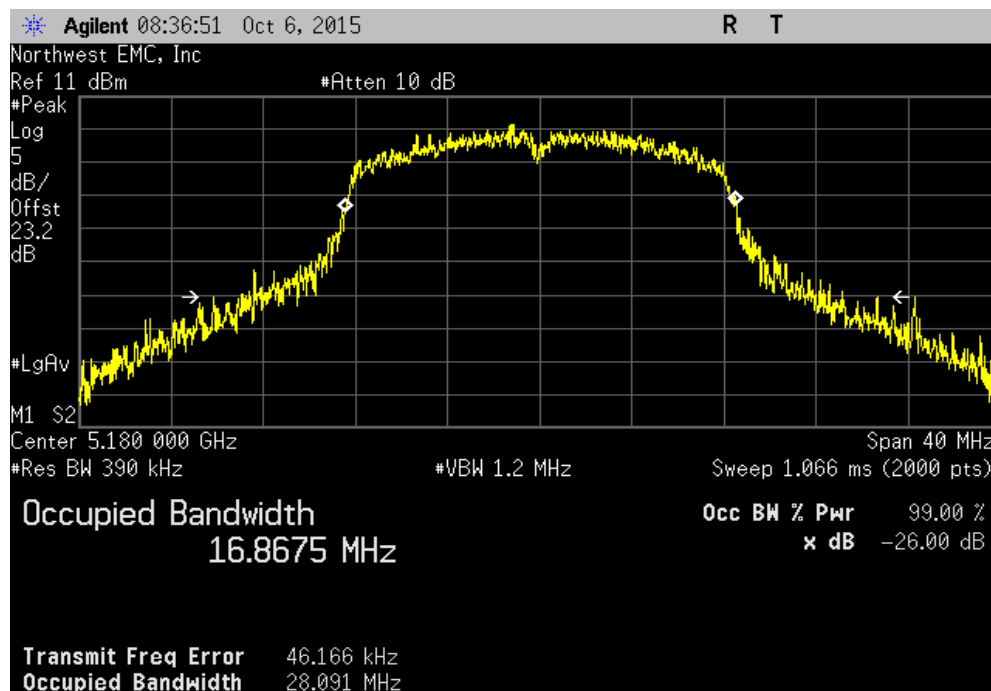


EMISSION BANDWIDTH

Ant 1, 802.11(n) MCS7, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
				Value	Limit (N/A)	Result
				22.973 MHz	N/A	N/A

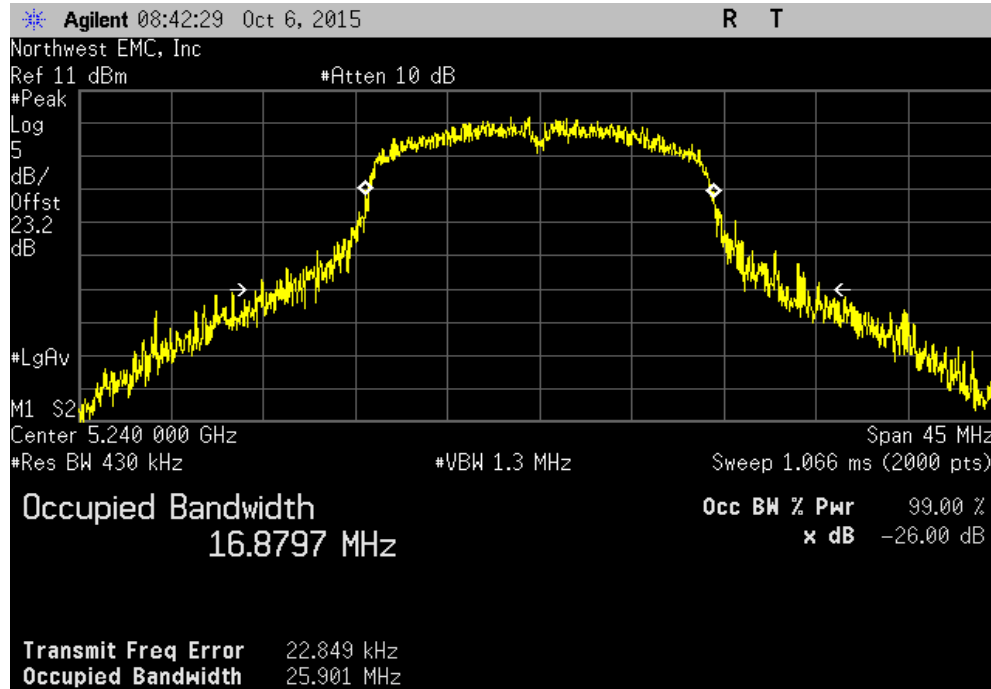


Ant 2, 802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
				Value	Limit (N/A)	Result
				28.091 MHz	N/A	N/A

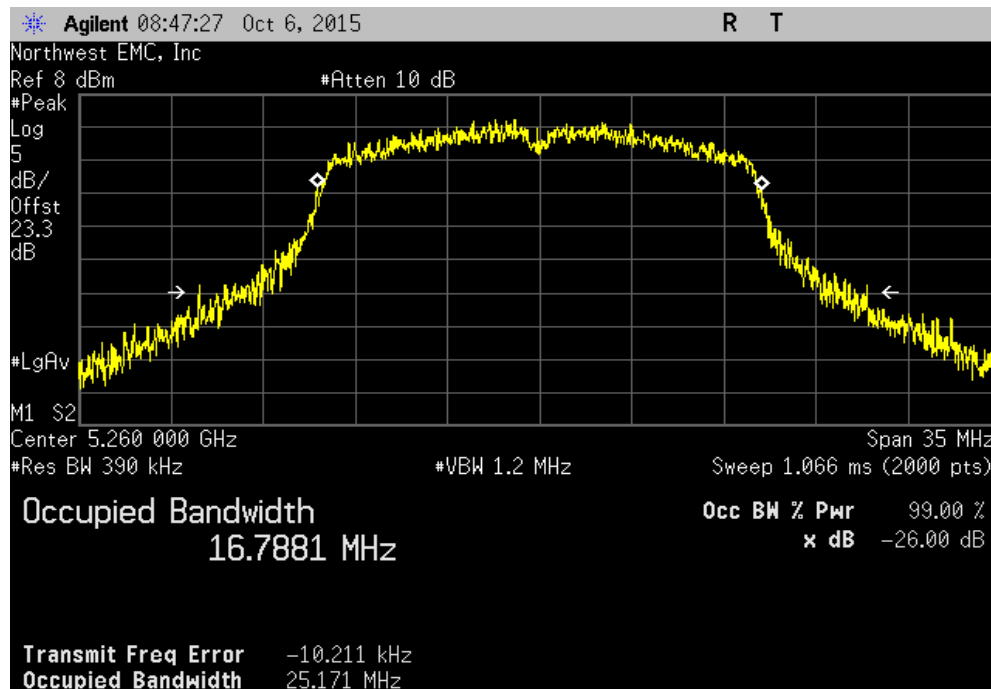


EMISSION BANDWIDTH

Ant 2, 802.11(a) 6 Mbps, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
				Value	Limit (N/A)	Result
				25.901 MHz	N/A	N/A

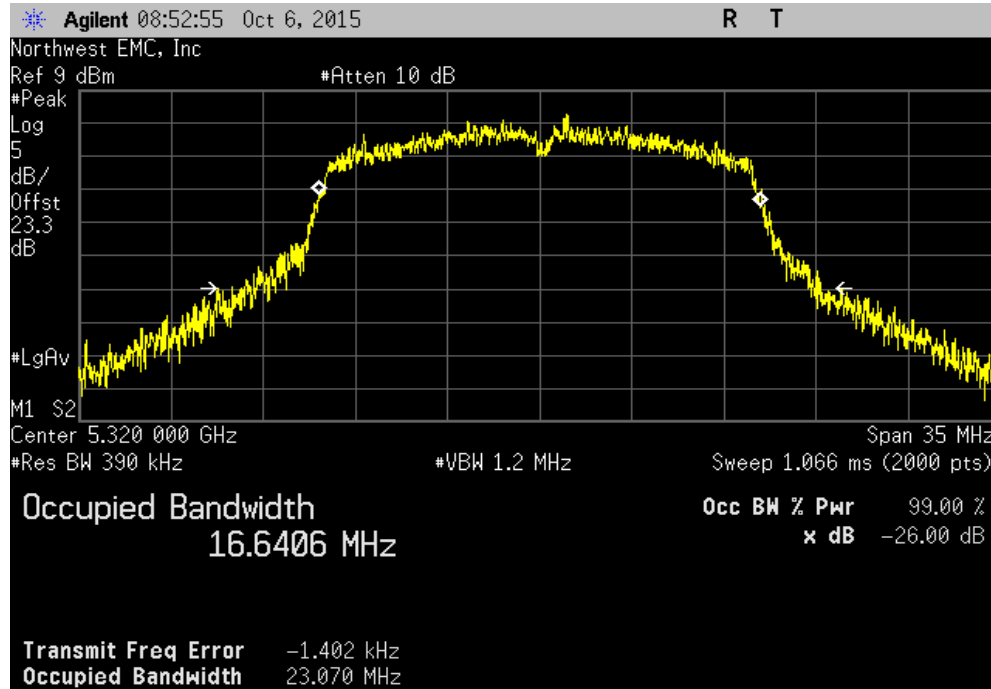


Ant 2, 802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
				Value	Limit (N/A)	Result
				25.171 MHz	N/A	N/A

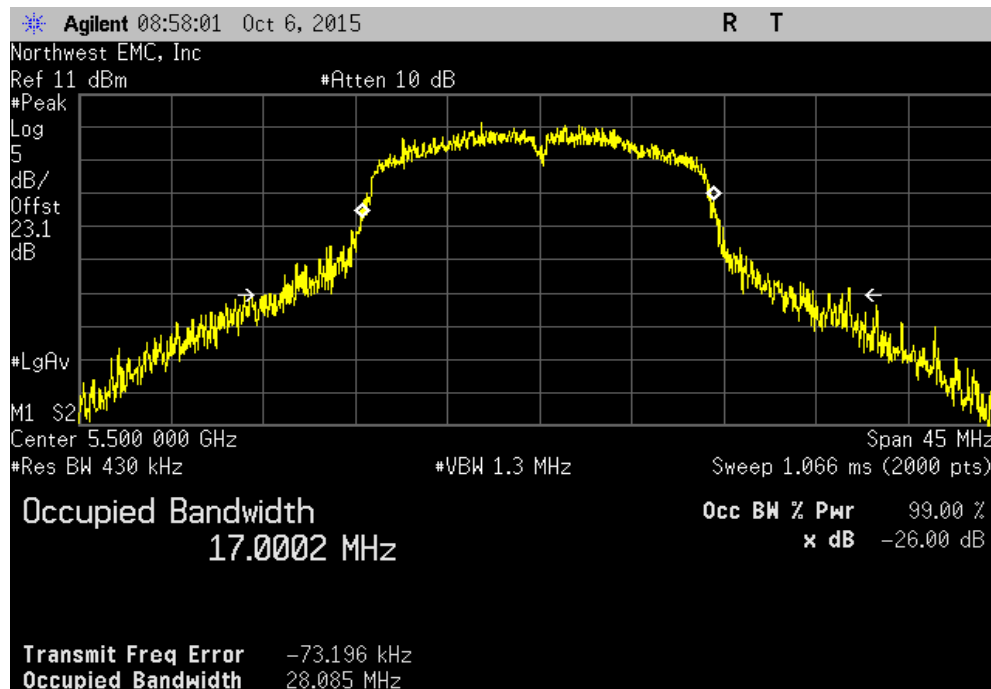


EMISSION BANDWIDTH

Ant 2, 802.11(a) 6 Mbps, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz						
				Value	Limit (N/A)	Result
				23.07 MHz	N/A	N/A

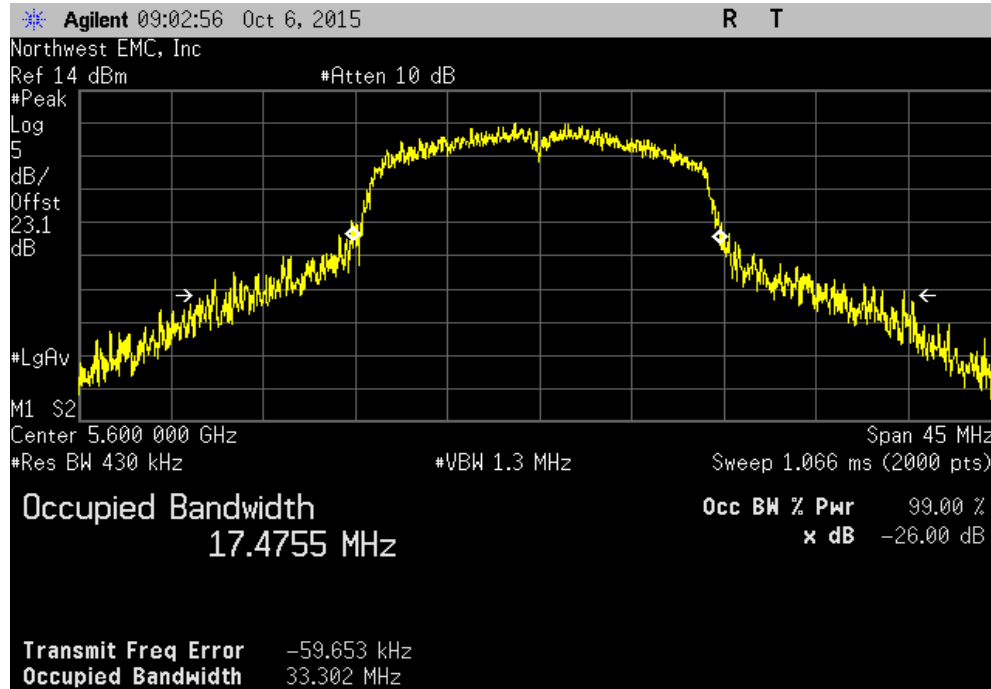


Ant 2, 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
				Value	Limit (N/A)	Result
				28.085 MHz	N/A	N/A

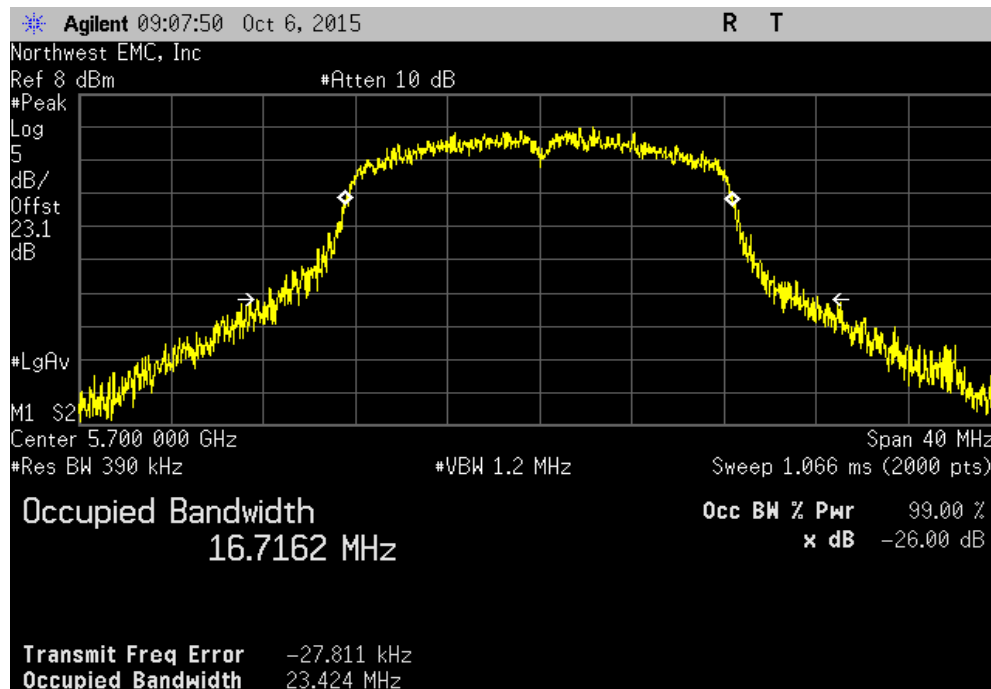


EMISSION BANDWIDTH

Ant 2, 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
				Value	Limit (N/A)	Result
				33.302 MHz	N/A	N/A



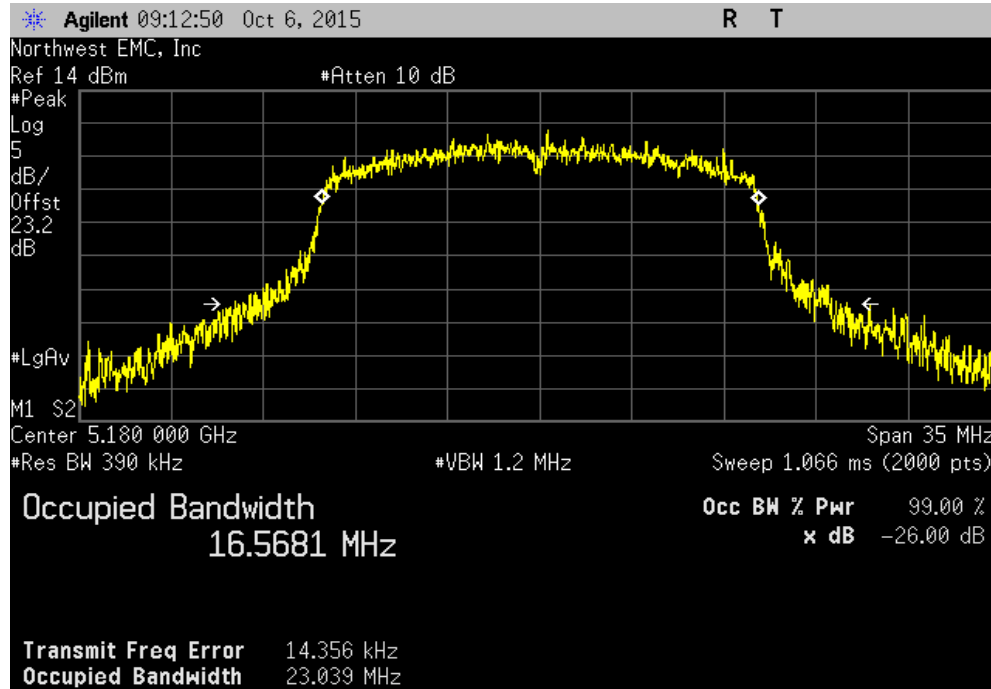
Ant 2, 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
				Value	Limit (N/A)	Result
				23.424 MHz	N/A	N/A



EMISSION BANDWIDTH

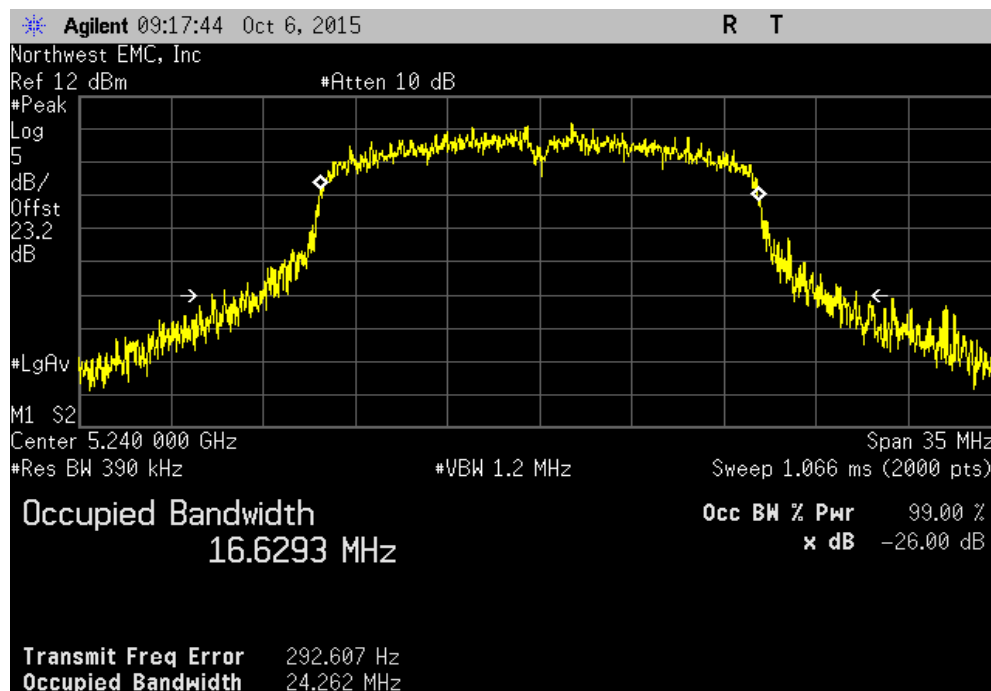
Ant 2, 802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz

	Value	Limit (N/A)	Result
	23.039 MHz	N/A	N/A



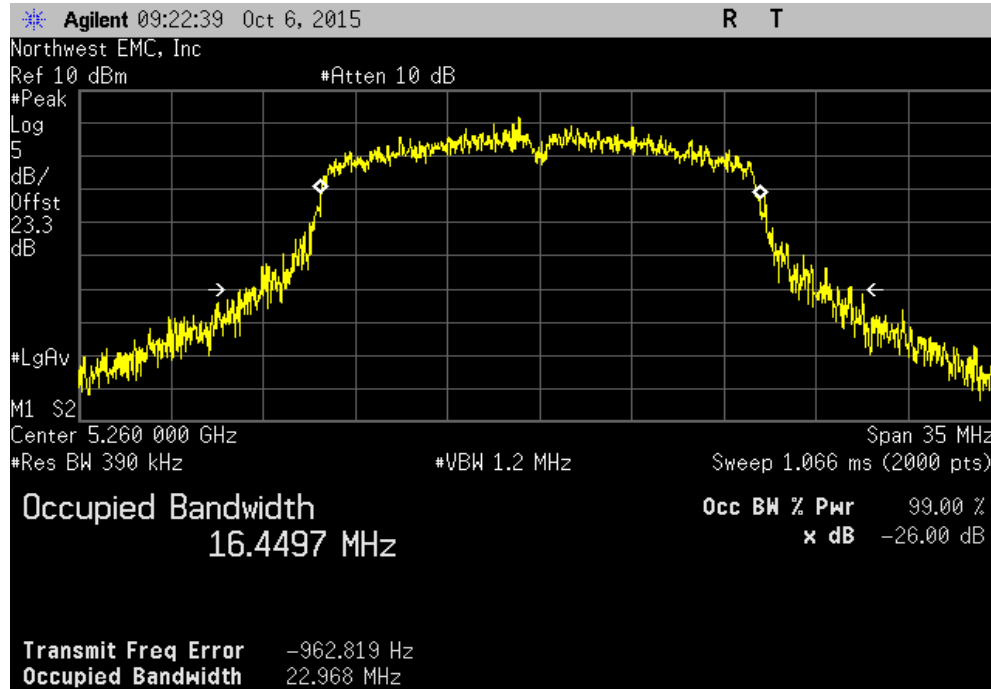
Ant 2, 802.11(a) 36 Mbps, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz

	Value	Limit (N/A)	Result
	24.262 MHz	N/A	N/A

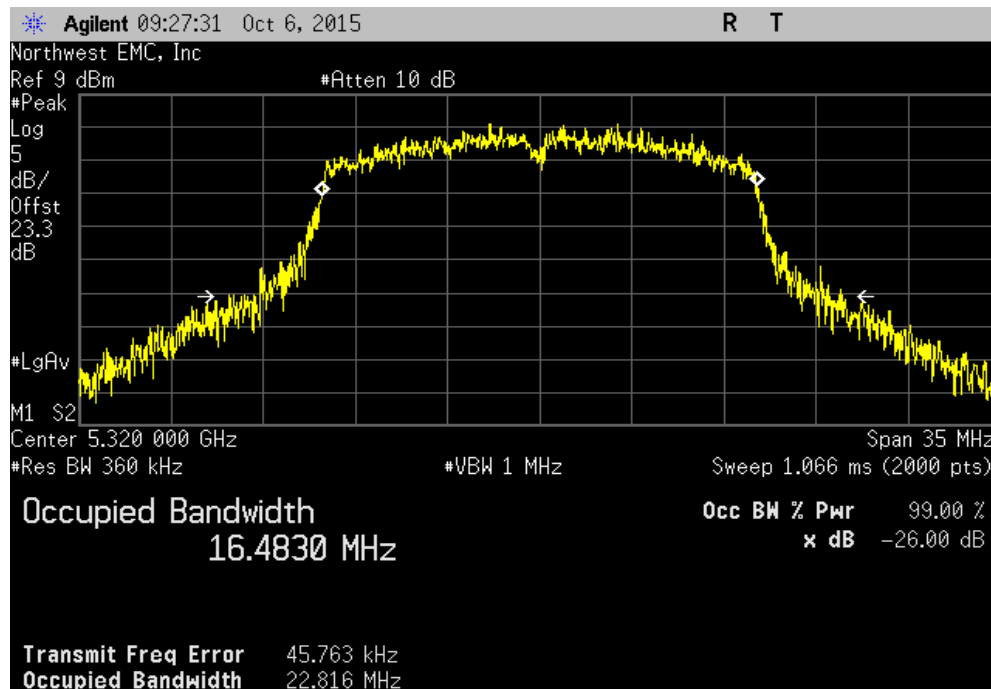


EMISSION BANDWIDTH

Ant 2, 802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
				Value	Limit (N/A)	Result
				22.968 MHz	N/A	N/A

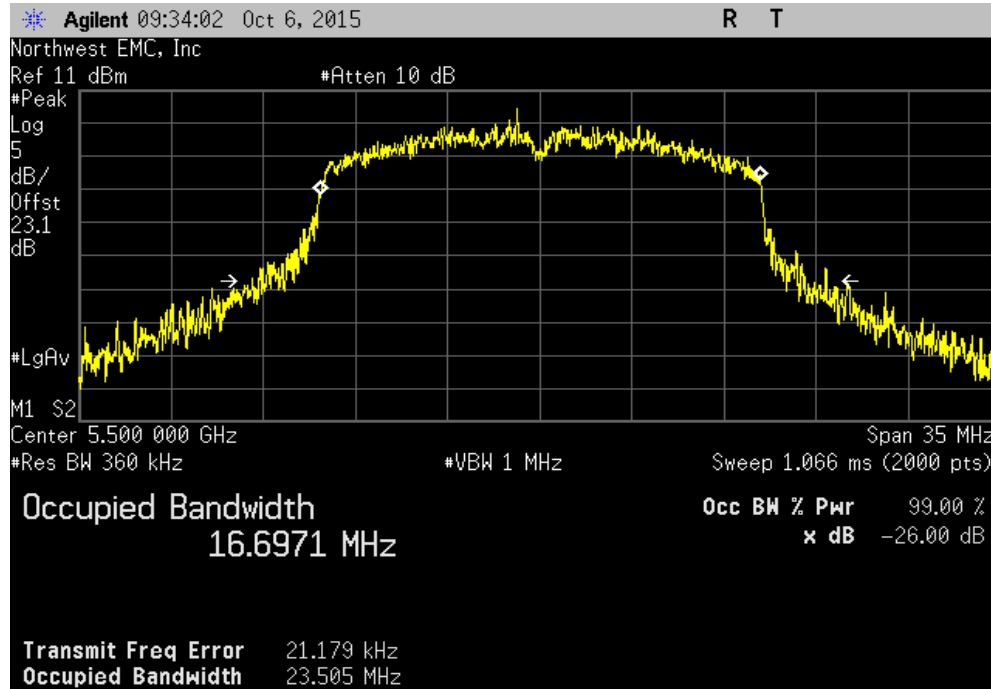


Ant 2, 802.11(a) 36 Mbps, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz						
				Value	Limit (N/A)	Result
				22.816 MHz	N/A	N/A

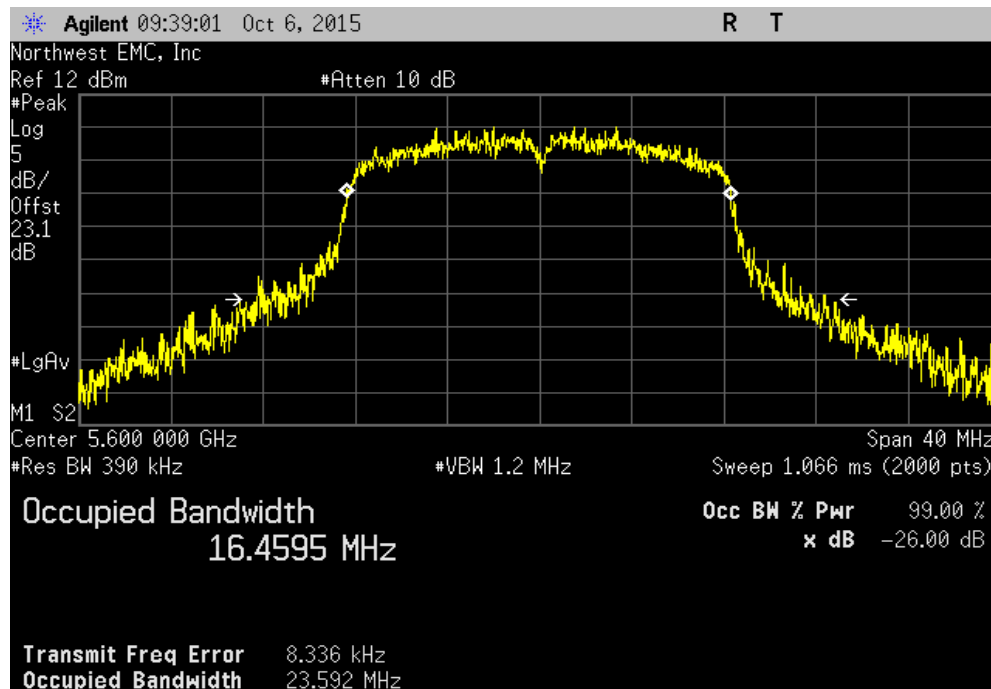


EMISSION BANDWIDTH

Ant 2, 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
				Value	Limit (N/A)	Result
				23.505 MHz	N/A	N/A



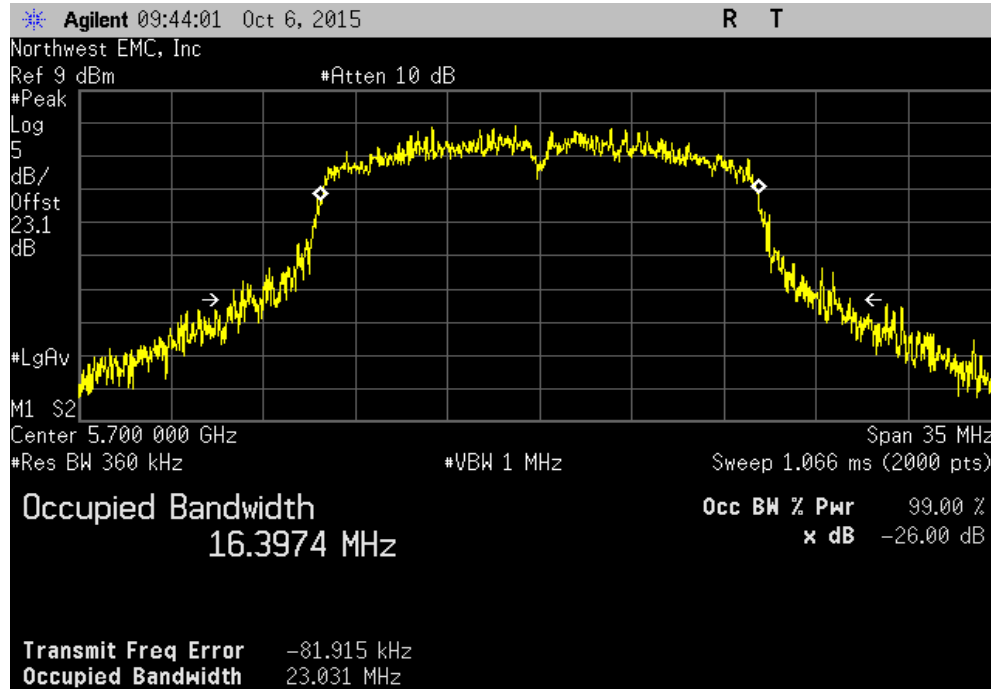
Ant 2, 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
				Value	Limit (N/A)	Result
				23.592 MHz	N/A	N/A



EMISSION BANDWIDTH

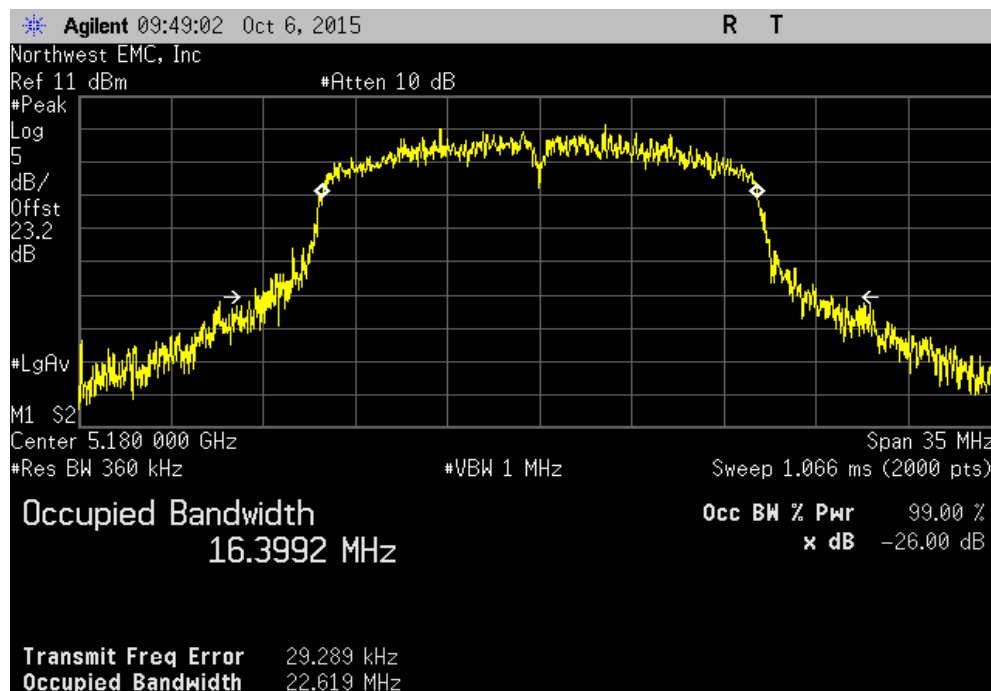
Ant 2, 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz

	Value	Limit (N/A)	Result
	23.031 MHz	N/A	N/A



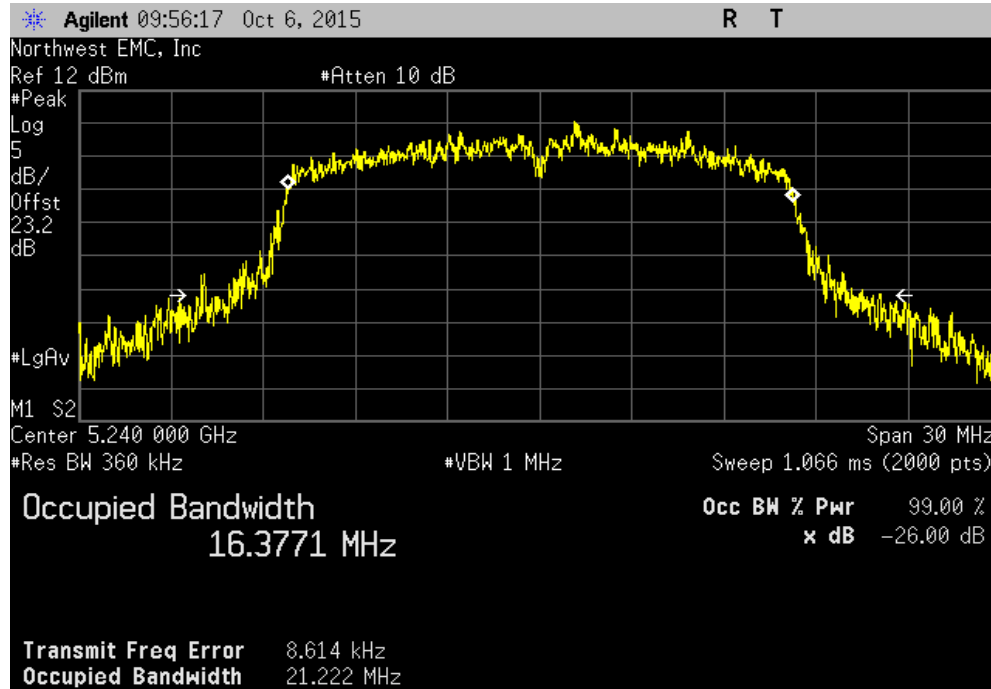
Ant 2, 802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz

	Value	Limit (N/A)	Result
	22.619 MHz	N/A	N/A

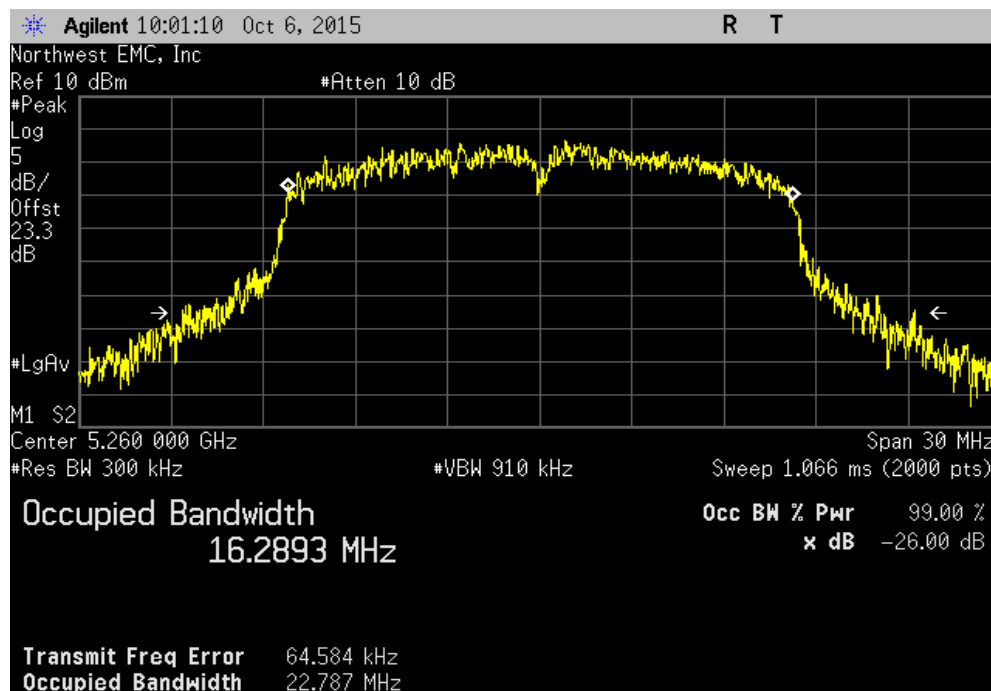


EMISSION BANDWIDTH

Ant 2, 802.11(a) 54 Mbps, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
				Value	Limit (N/A)	Result
				21.222 MHz	N/A	N/A

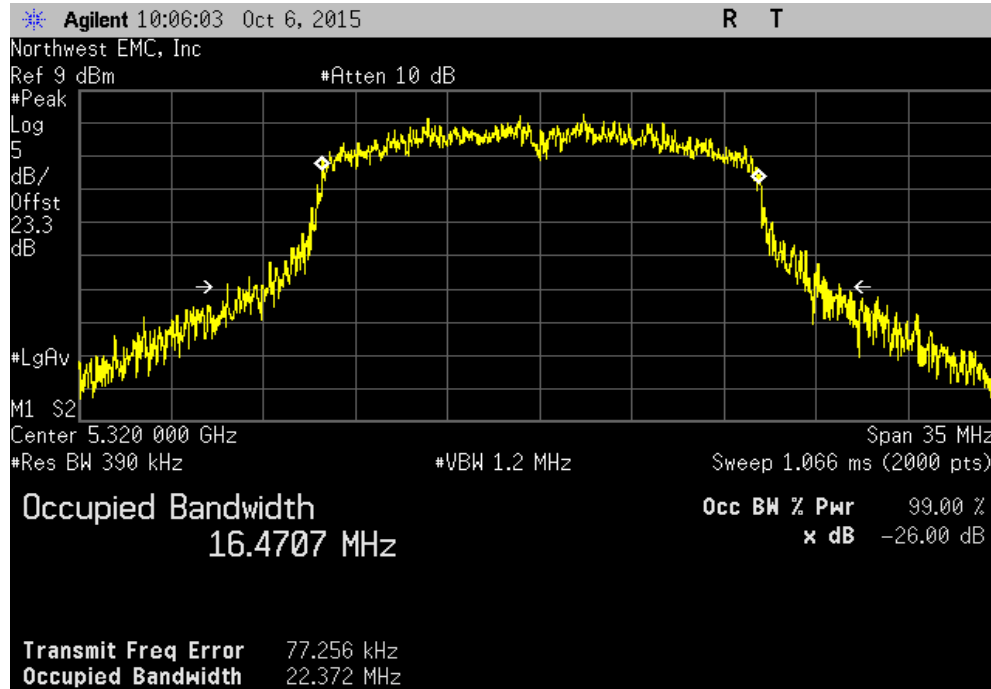


Ant 2, 802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
				Value	Limit (N/A)	Result
				22.787 MHz	N/A	N/A

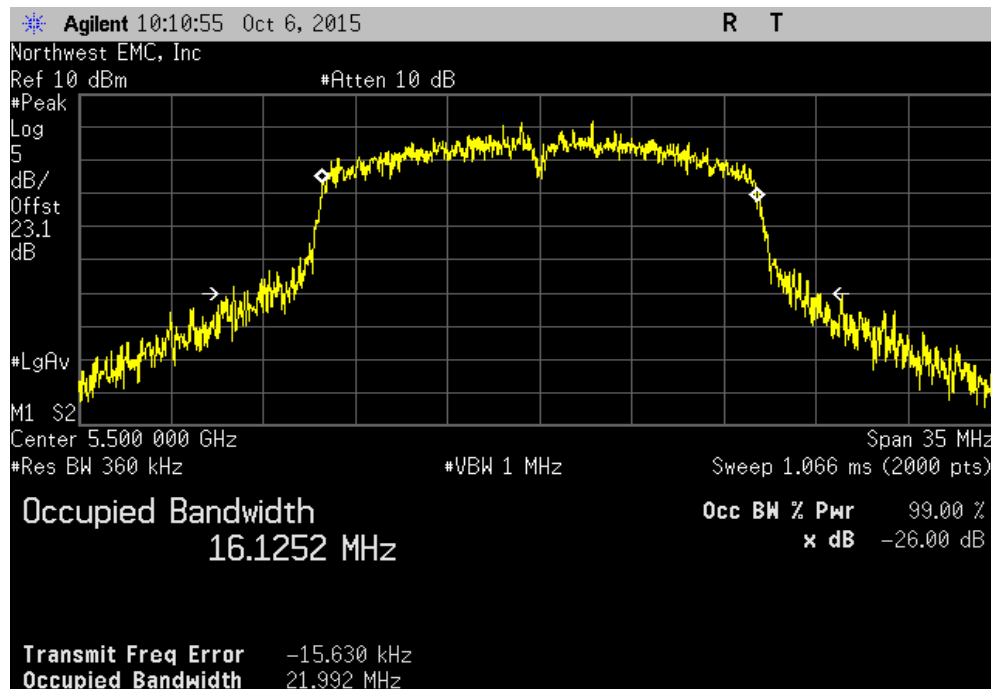


EMISSION BANDWIDTH

Ant 2, 802.11(a) 54 Mbps, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz						
				Value	Limit (N/A)	Result
				22.372 MHz	N/A	N/A

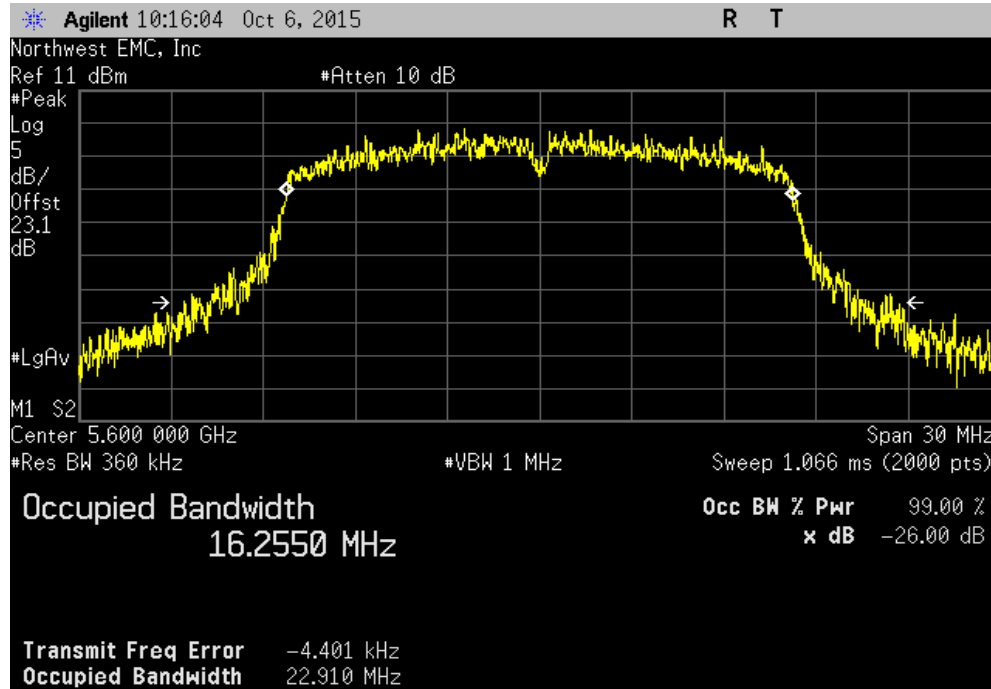


Ant 2, 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
				Value	Limit (N/A)	Result
				21.992 MHz	N/A	N/A

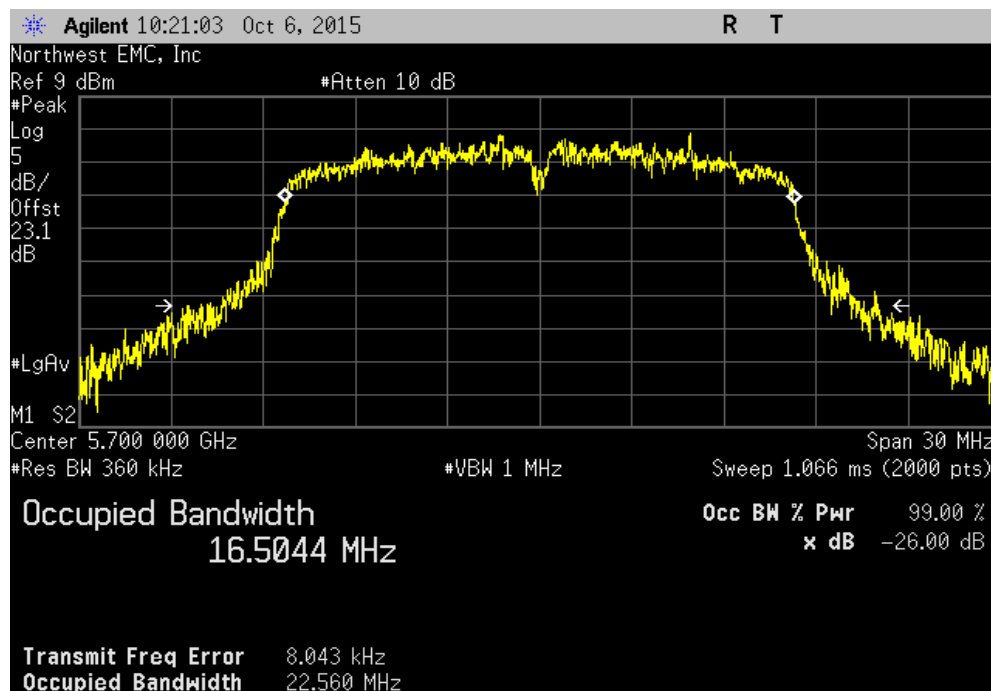


EMISSION BANDWIDTH

Ant 2, 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
				Value	Limit (N/A)	Result
				22.91 MHz	N/A	N/A

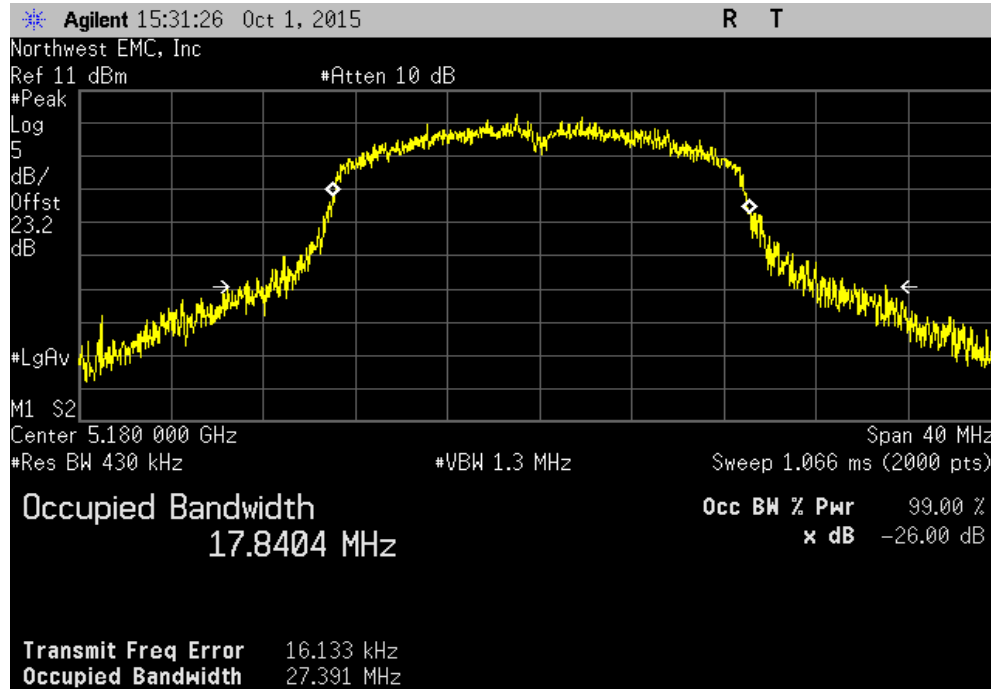


Ant 2, 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
				Value	Limit (N/A)	Result
				22.56 MHz	N/A	N/A

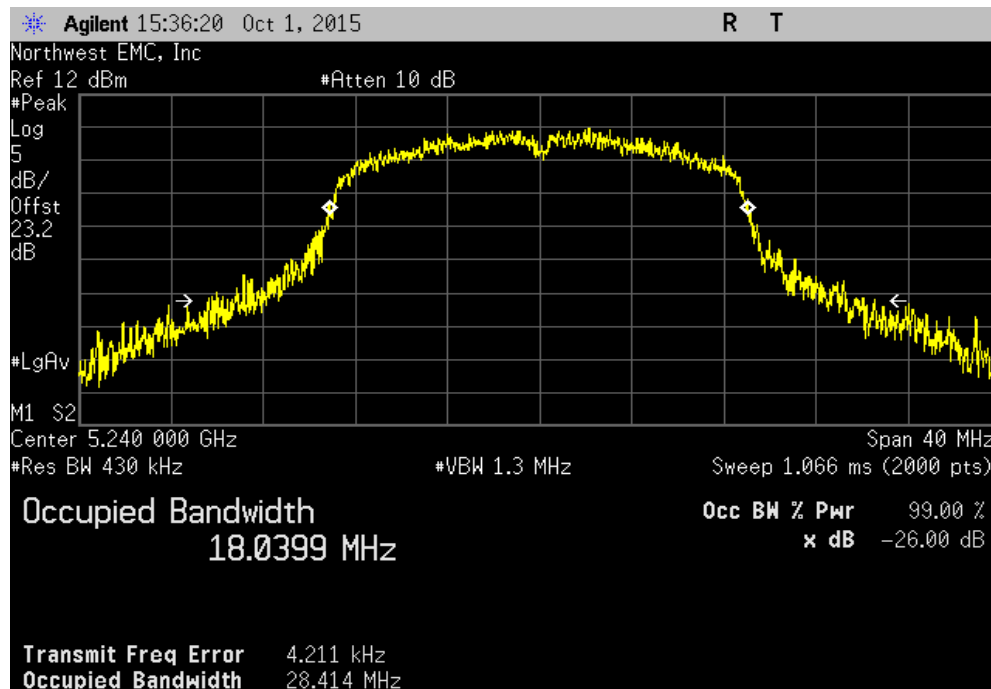


EMISSION BANDWIDTH

Ant 2, 802.11(n) MCS0, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
				Value	Limit (N/A)	Result
				27.391 MHz	N/A	N/A



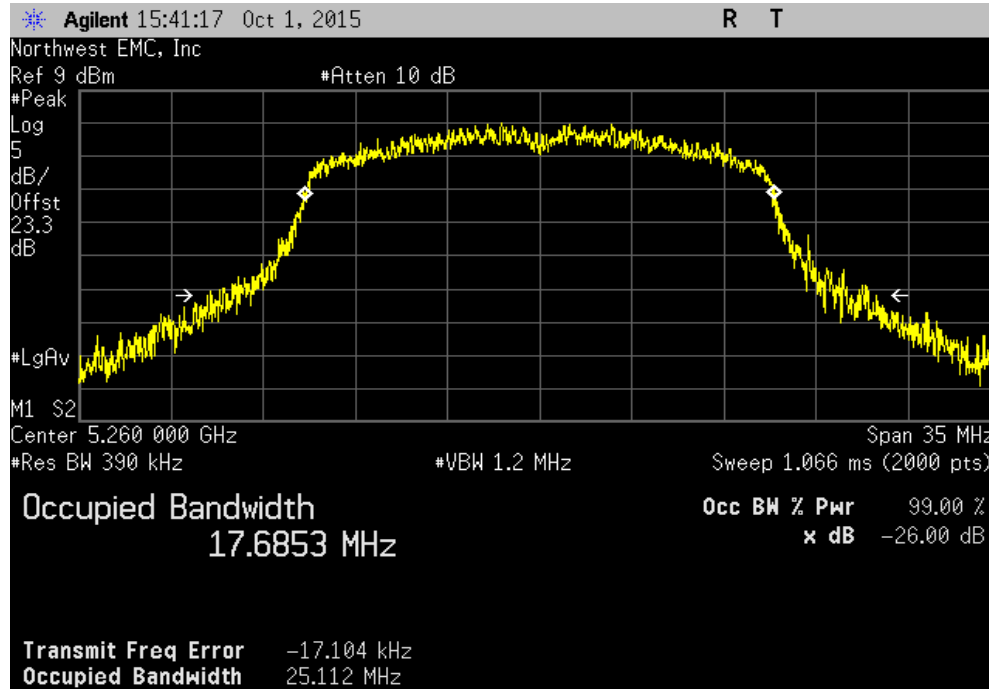
Ant 2, 802.11(n) MCS0, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
				Value	Limit (N/A)	Result
				28.414 MHz	N/A	N/A



EMISSION BANDWIDTH

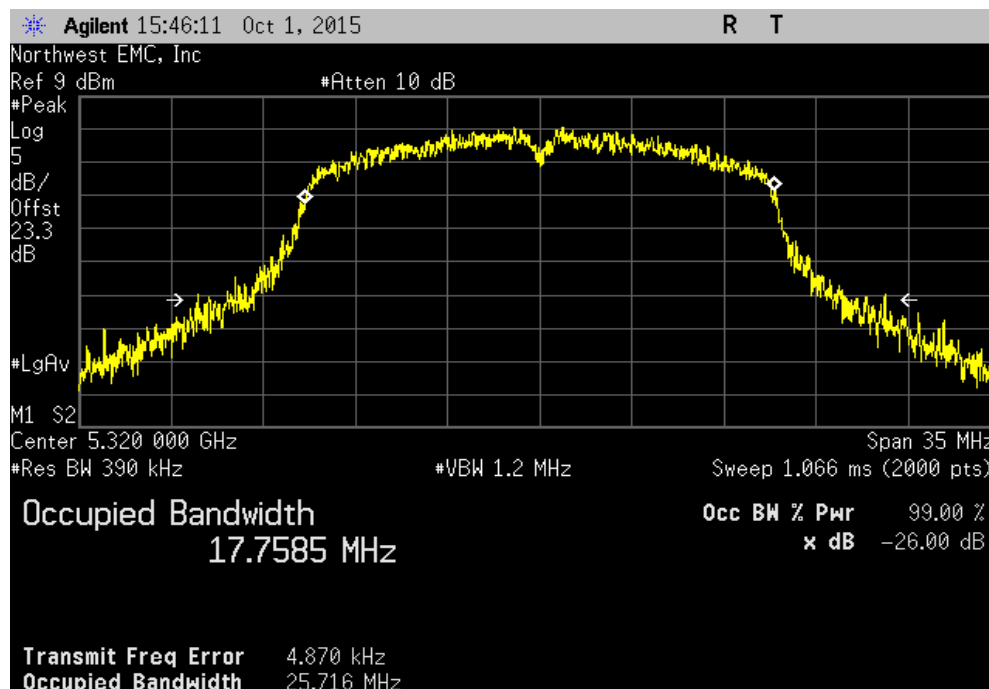
Ant 2, 802.11(n) MCS0, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz

	Value	Limit (N/A)	Result
	25.112 MHz	N/A	N/A



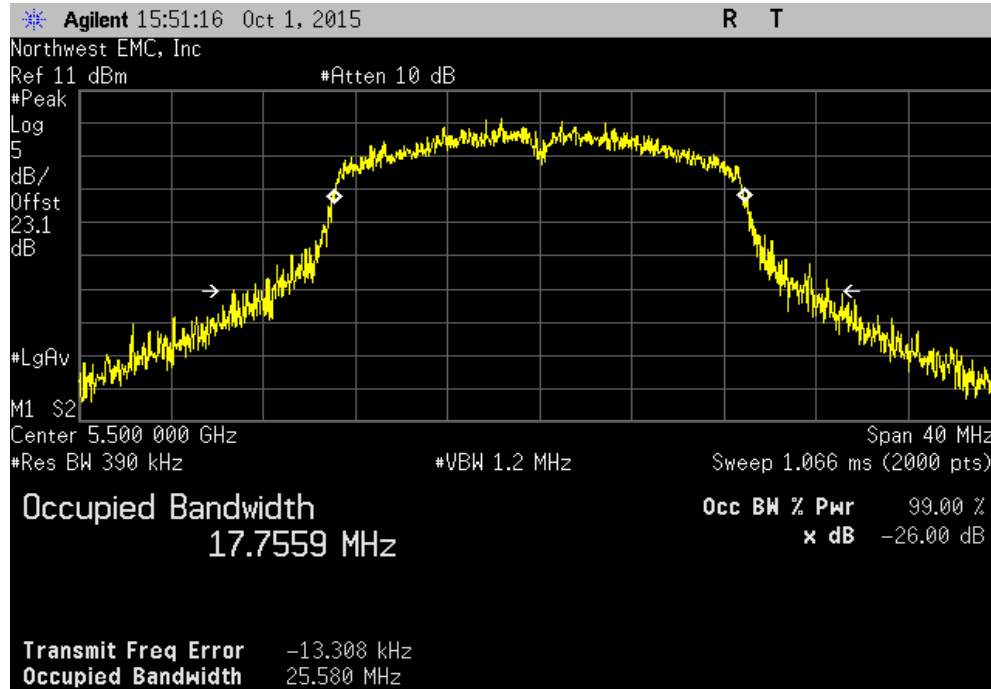
Ant 2, 802.11(n) MCS0, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz

	Value	Limit (N/A)	Result
	25.716 MHz	N/A	N/A

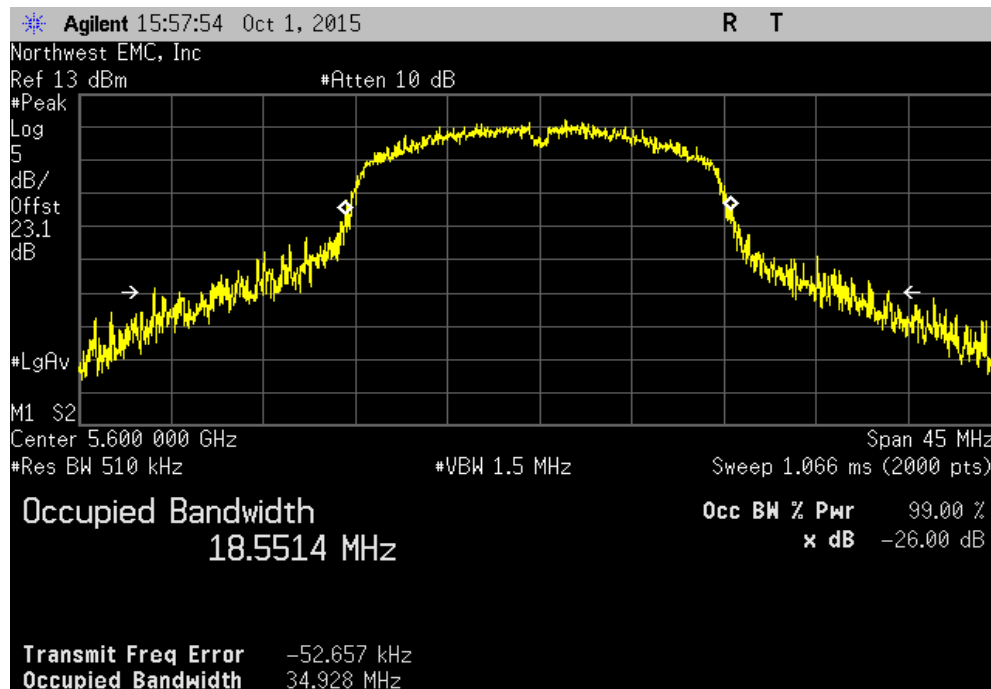


EMISSION BANDWIDTH

Ant 2, 802.11(n) MCS0, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz						
				Value	Limit (N/A)	Result
				25.58 MHz	N/A	N/A

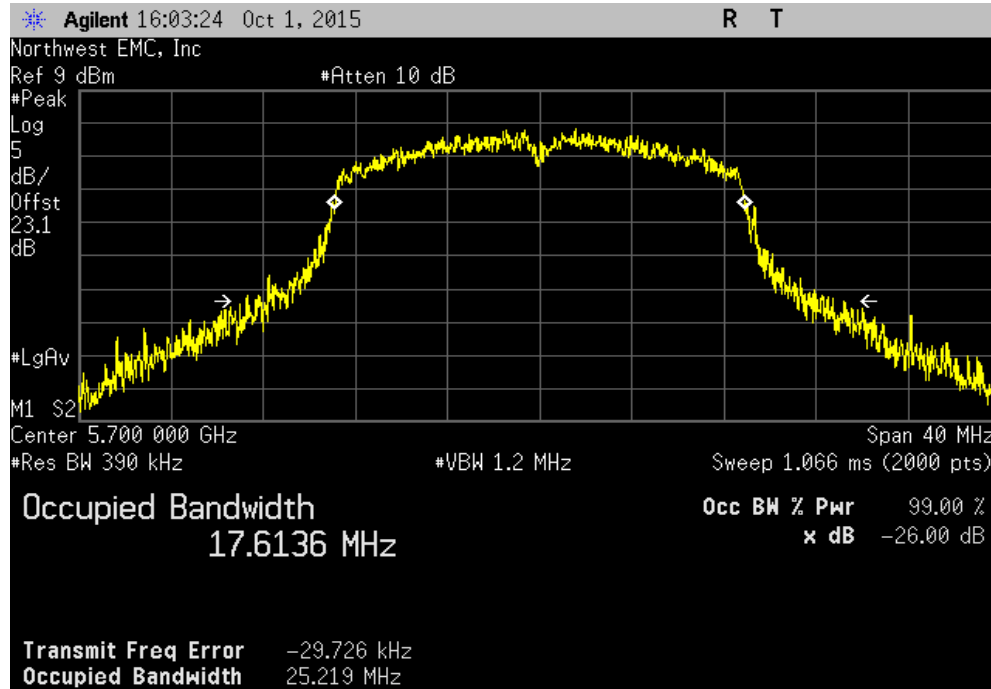


Ant 2, 802.11(n) MCS0, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
				Value	Limit (N/A)	Result
				34.928 MHz	N/A	N/A

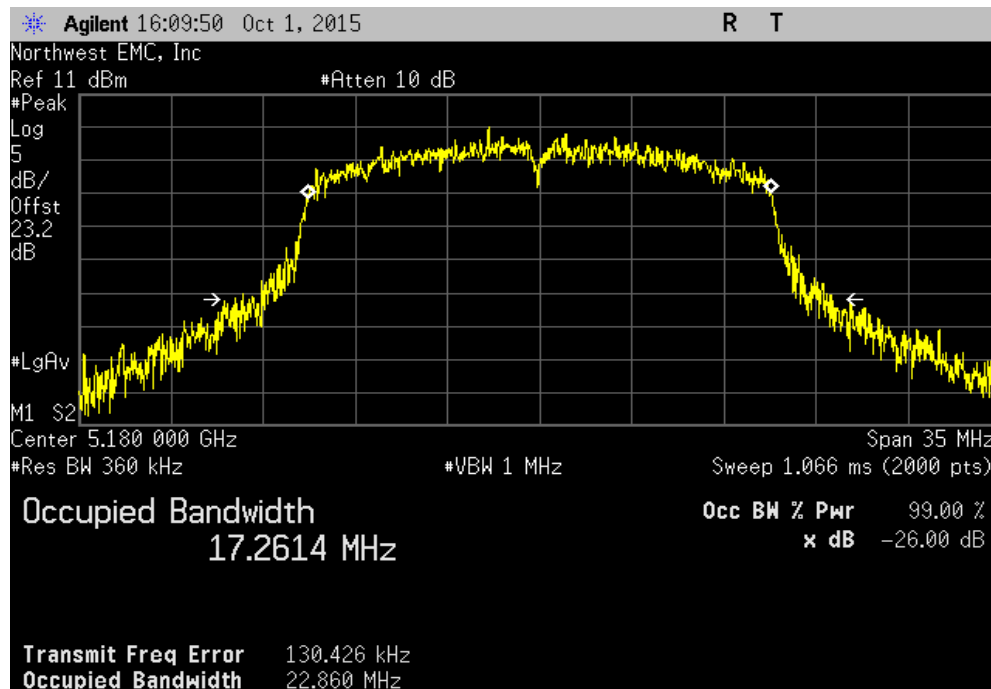


EMISSION BANDWIDTH

Ant 2, 802.11(n) MCS0, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
				Value	Limit (N/A)	Result
				25.219 MHz	N/A	N/A

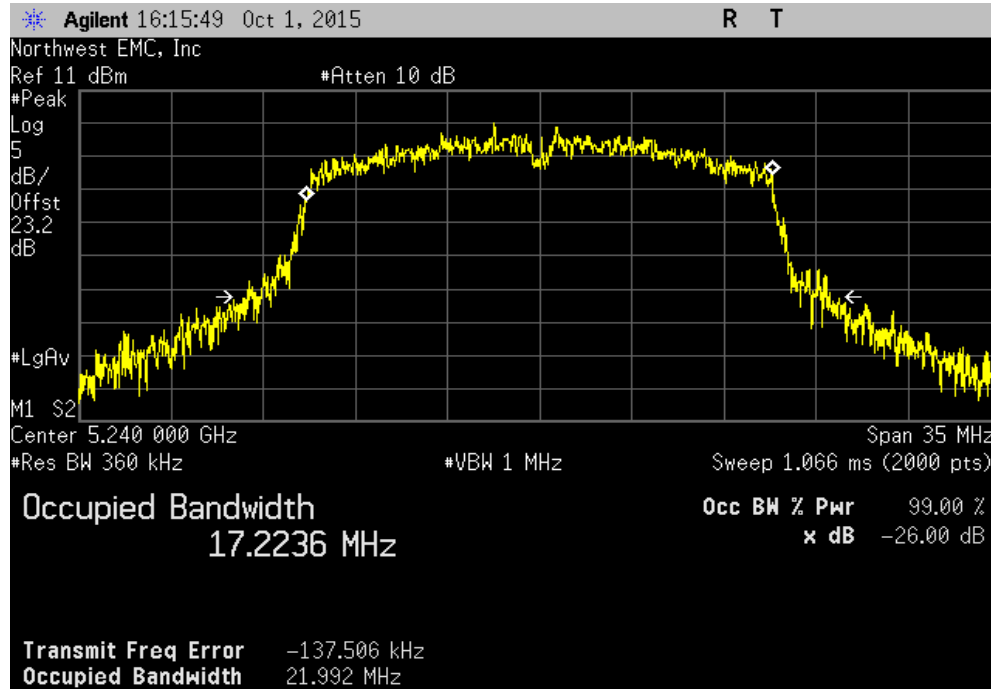


Ant 2, 802.11(n) MCS7, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
				Value	Limit (N/A)	Result
				22.86 MHz	N/A	N/A

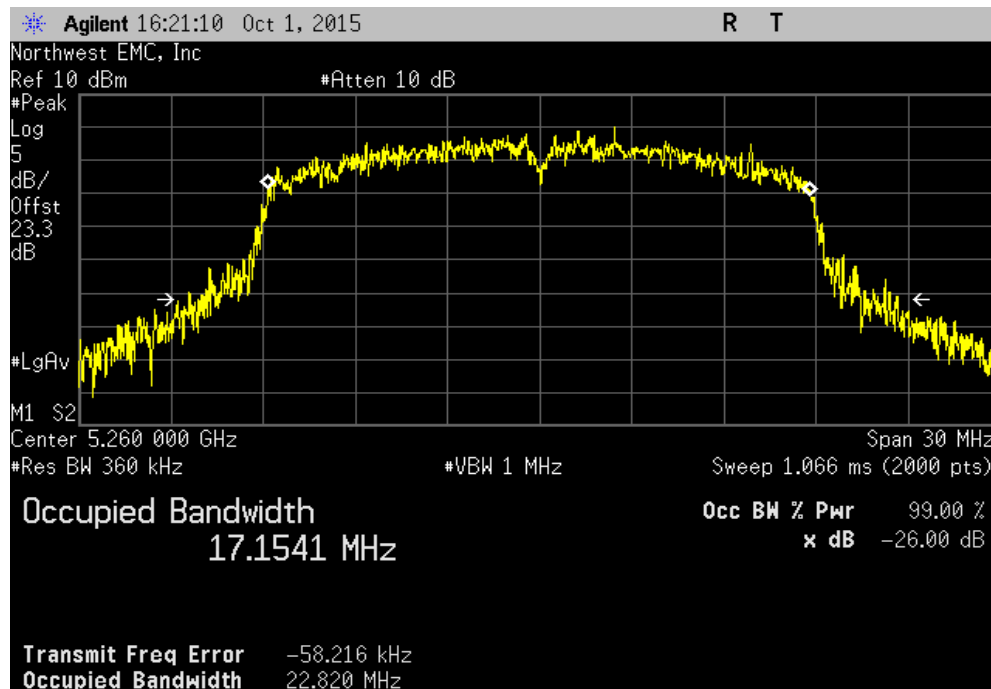


EMISSION BANDWIDTH

Ant 2, 802.11(n) MCS7, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
				Value	Limit (N/A)	Result
				21.992 MHz	N/A	N/A



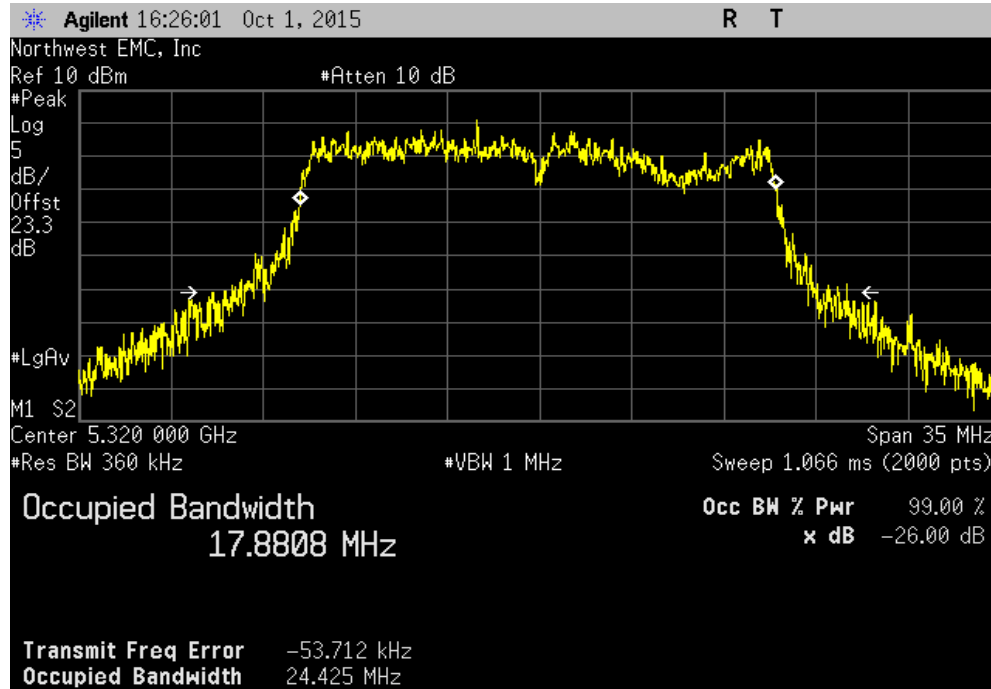
Ant 2, 802.11(n) MCS7, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
				Value	Limit (N/A)	Result
				22.82 MHz	N/A	N/A



EMISSION BANDWIDTH

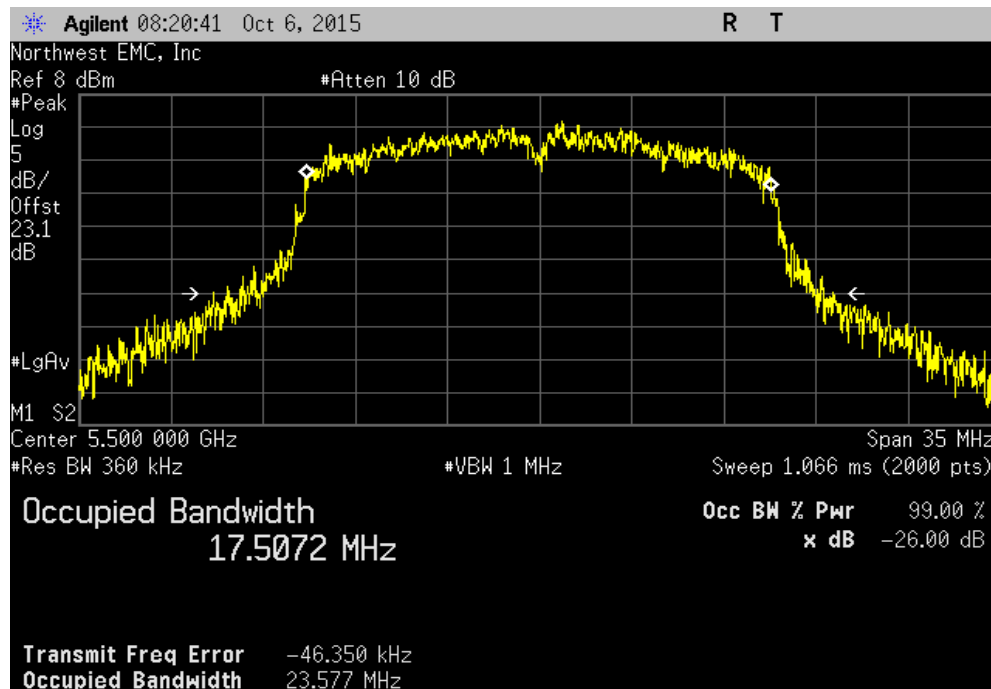
Ant 2, 802.11(n) MCS7, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz

	Value	Limit (N/A)	Result
	24.425 MHz	N/A	N/A



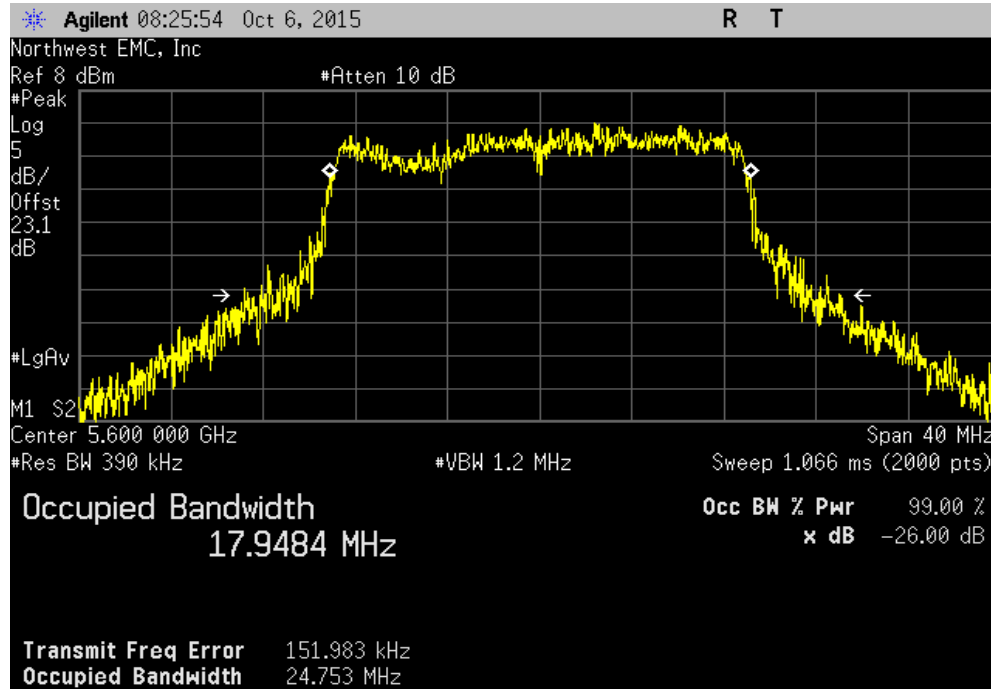
Ant 2, 802.11(n) MCS7, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz

	Value	Limit (N/A)	Result
	23.577 MHz	N/A	N/A

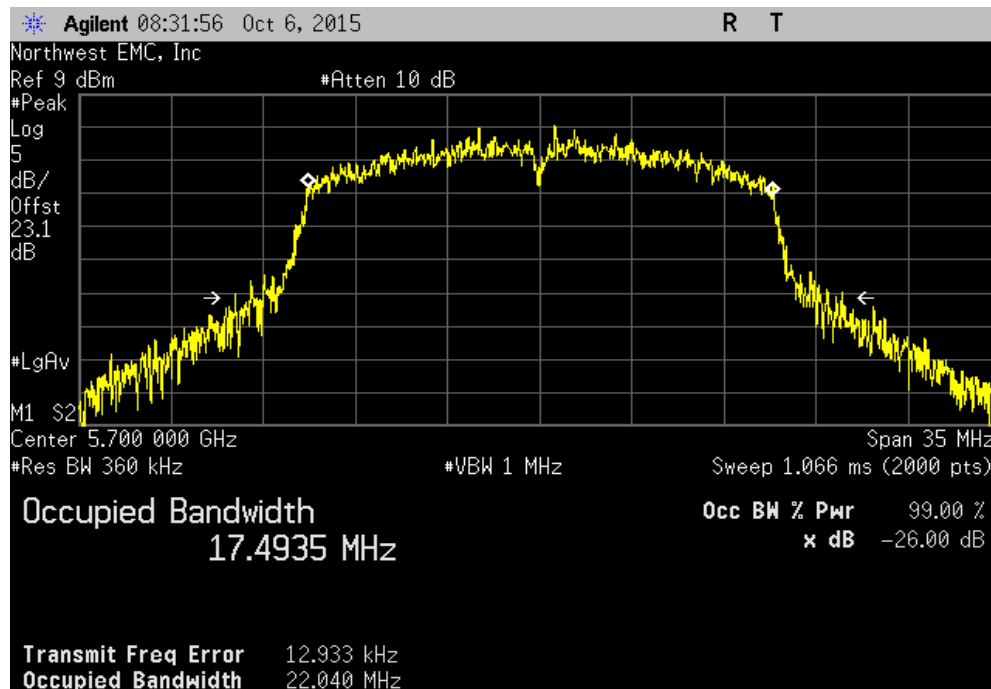


EMISSION BANDWIDTH

Ant 2, 802.11(n) MCS7, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
				Value	Limit (N/A)	Result
				24.753 MHz	N/A	N/A



Ant 2, 802.11(n) MCS7, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
				Value	Limit (N/A)	Result
				22.04 MHz	N/A	N/A



OCCUPIED 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)
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFE	6/22/2015	12
Cable	ESM Cable Corp.	TTBJ-141 KMKM-72	NC5	6/6/2015	12
Attenuator	Fairview Microwave	SA4014-20	TKE	1/16/2015	12
Block - DC	Fairview Microwave	SD3379	AMJ	6/6/2015	12
Generator - Signal	Agilent	N5183A	TIA	4/7/2014	24

TEST DESCRIPTION

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.

Per ANSI C63.10, the spectrum analyzer settings were as follows:

- RBW = 100 kHz
- VBW = $\geq 3 \times$ RBW
- Detector = Peak
- Trace mode = max hold

The spectrum analyzer occupied bandwidth measurement function was then used to measure the 6 dB emission bandwidth.

The 99.9% (approximate 26 dB) emission bandwidth (EBW) was also measured at the same time to be used for setting the channel power integration bandwidth during conducted output power testing.

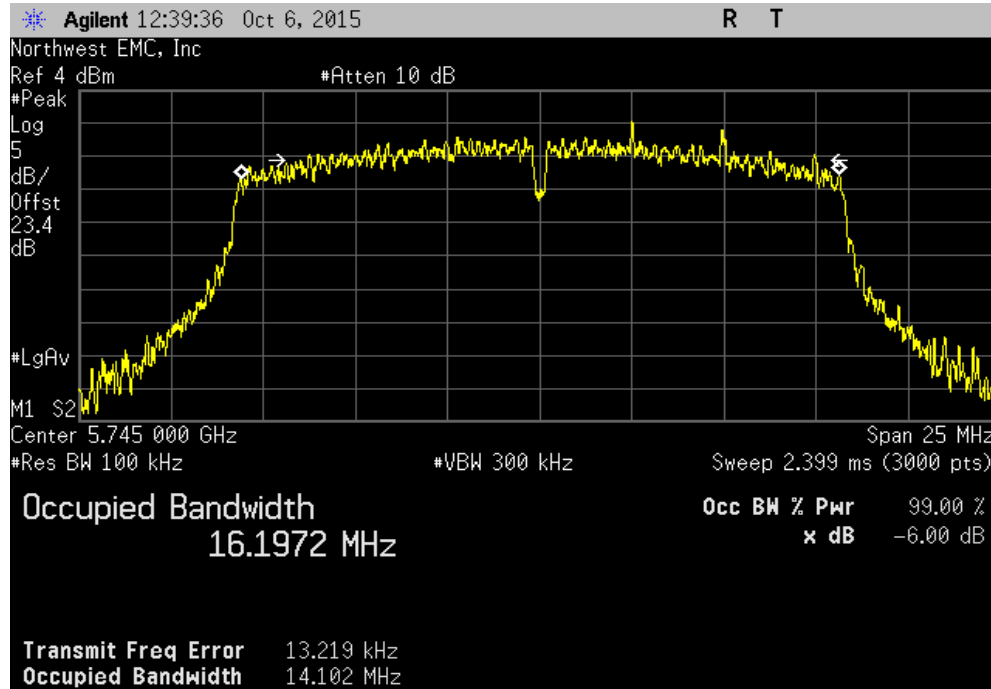
OCCUPIED BANDWIDTH

EUT: Precor Wi-Fi / Bluetooth Module Model 303346		Work Order: PRCR0230		
Serial Number: None		Date: 10/06/15		
Customer: Precor, Inc.		Temperature: 23°C		
Attendees: Rich Whitbeck		Humidity: 46%		
Project: None		Barometric Pres.: 1015mb		
Tested by: Richard Melloth		Power: 110VAC/60Hz		
Job Site: NC02				
TEST SPECIFICATIONS		Test Method		
FCC 15.407:2015		ANSI C63.10:2013		
COMMENTS				
Power settings at Maximum.				
DEVIATIONS FROM TEST STANDARD				
None				
Configuration #	1	Signature 		
		Value	Limit (>)	Result
Ant 1				
802.11(a) 6 Mbps				
5725 - 5825 MHz Band				
Low Channel 149, 5745 MHz		14.102 MHz	500 kHz	Pass
Mid Channel 157, 5785 MHz		14.322 MHz	500 kHz	Pass
High Channel 165, 5825 MHz		13.68 MHz	500 kHz	Pass
802.11(a) 36 Mbps				
5725 - 5825 MHz Band				
Low Channel 149, 5745 MHz		14.903 MHz	500 kHz	Pass
Mid Channel 157, 5785 MHz		14.448 MHz	500 kHz	Pass
High Channel 165, 5825 MHz		14.867 MHz	500 kHz	Pass
802.11(a) 54 Mbps				
5725 - 5825 MHz Band				
Low Channel 149, 5745 MHz		14.988 MHz	500 kHz	Pass
Mid Channel 157, 5785 MHz		14.024 MHz	500 kHz	Pass
High Channel 165, 5825 MHz		13.817 MHz	500 kHz	Pass
802.11(n) MCS0				
5725 - 5825 MHz Band				
Low Channel 149, 5745 MHz		13.735 MHz	500 kHz	Pass
Mid Channel 157, 5785 MHz		13.61 MHz	500 kHz	Pass
High Channel 165, 5825 MHz		13.387 MHz	500 kHz	Pass
802.11(n) MCS7				
5725 - 5825 MHz Band				
Low Channel 149, 5745 MHz		14.966 MHz	500 kHz	Pass
Mid Channel 157, 5785 MHz		14.267 MHz	500 kHz	Pass
High Channel 165, 5825 MHz		14.623 MHz	500 kHz	Pass
Ant 2				
802.11(a) 6 Mbps				
5725 - 5825 MHz Band				
Low Channel 149, 5745 MHz		15.263 MHz	500 kHz	Pass
Mid Channel 157, 5785 MHz		13.655 MHz	500 kHz	Pass
High Channel 165, 5825 MHz		13.443 MHz	500 kHz	Pass
802.11(a) 36 Mbps				
5725 - 5825 MHz Band				
Low Channel 149, 5745 MHz		13.852 MHz	500 kHz	Pass
Mid Channel 157, 5785 MHz		14.626 MHz	500 kHz	Pass
High Channel 165, 5825 MHz		15.007 MHz	500 kHz	Pass
802.11(a) 54 Mbps				
5725 - 5825 MHz Band				
Low Channel 149, 5745 MHz		13.672 MHz	500 kHz	Pass
Mid Channel 157, 5785 MHz		14.681 MHz	500 kHz	Pass
High Channel 165, 5825 MHz		14.594 MHz	500 kHz	Pass
802.11(n) MCS0				
5725 - 5825 MHz Band				
Low Channel 149, 5745 MHz		13.569 MHz	500 kHz	Pass
Mid Channel 157, 5785 MHz		13.028 MHz	500 kHz	Pass
High Channel 165, 5825 MHz		13.217 MHz	500 kHz	Pass
802.11(n) MCS7				
5725 - 5825 MHz Band				
Low Channel 149, 5745 MHz		14.469 MHz	500 kHz	Pass
Mid Channel 157, 5785 MHz		12.65 MHz	500 kHz	Pass
High Channel 165, 5825 MHz		14.578 MHz	500 kHz	Pass

OCCUPIED BANDWIDTH

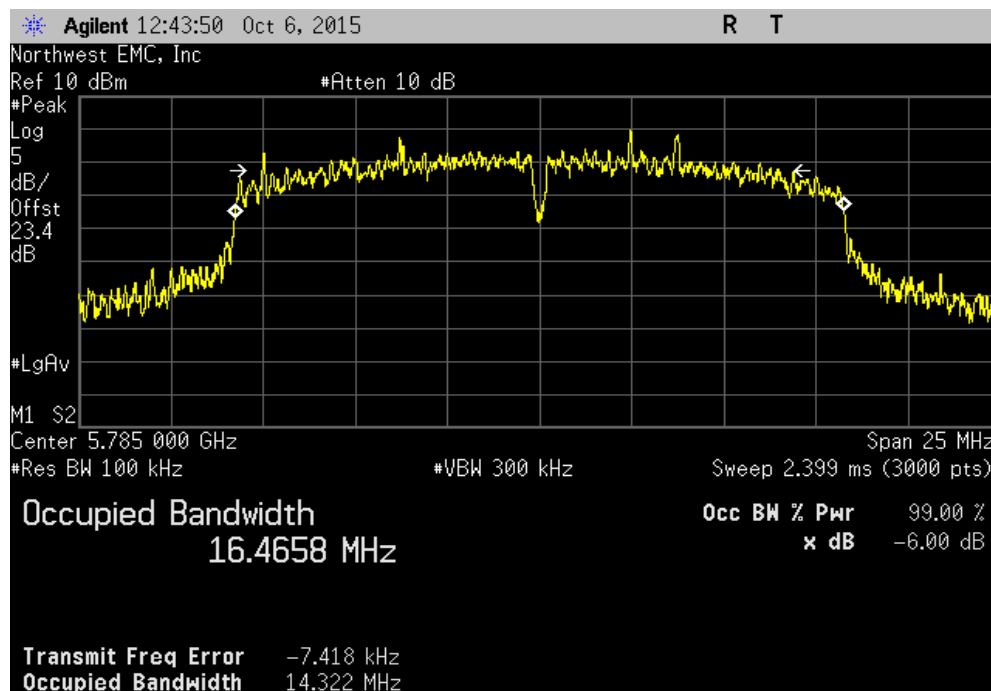
Ant 1, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz

	Value	Limit (>)	Result
	14.102 MHz	500 kHz	Pass



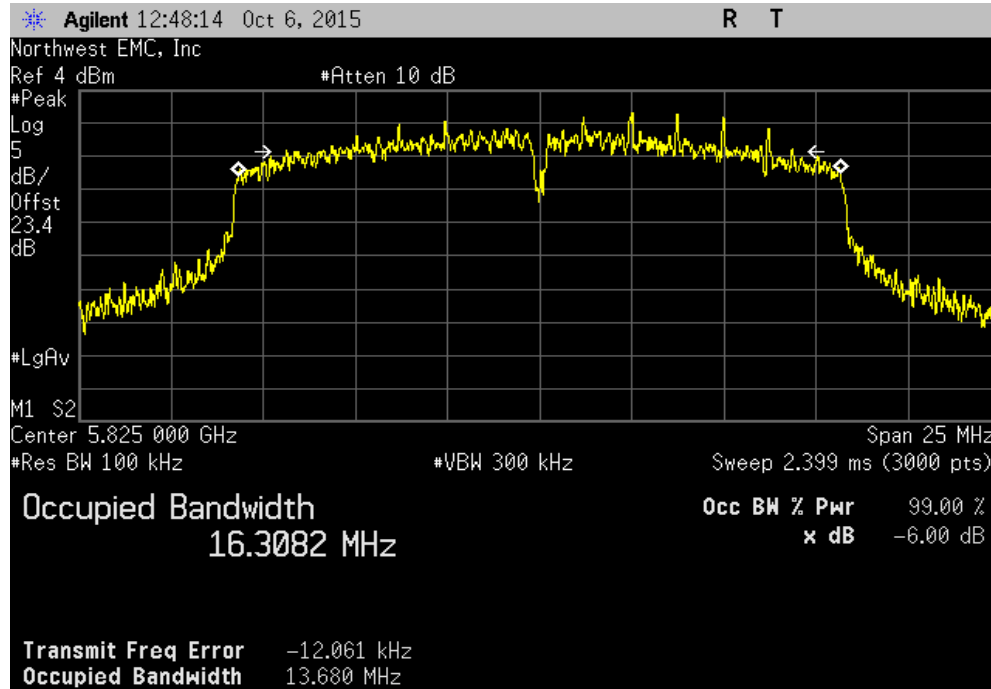
Ant 1, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz

	Value	Limit (>)	Result
	14.322 MHz	500 kHz	Pass

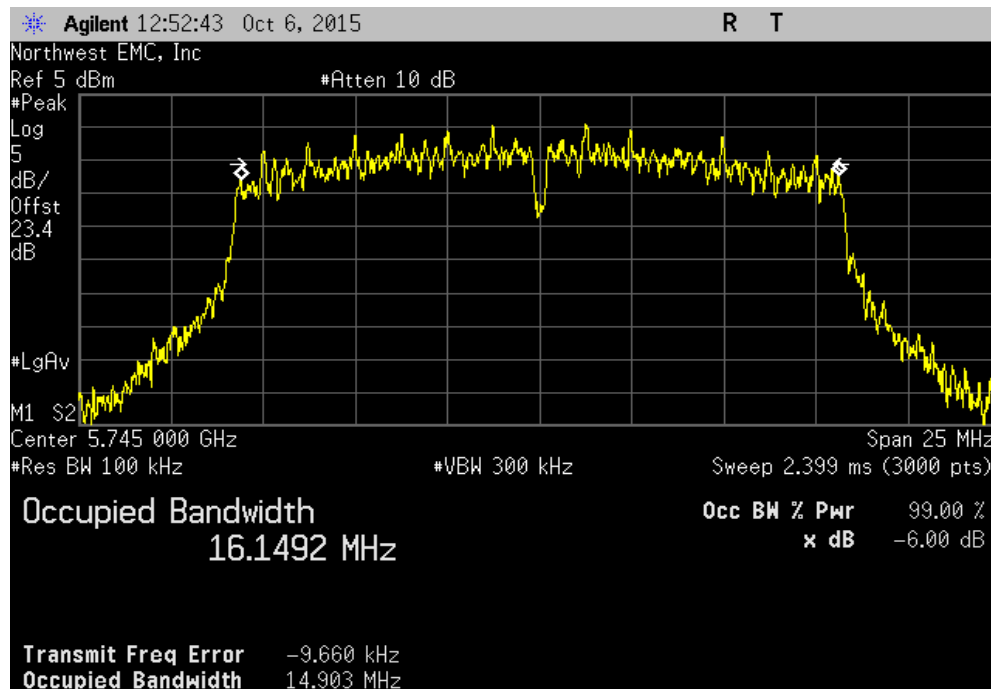


OCCUPIED BANDWIDTH

Ant 1, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
				Value	Limit (>)	Result
				13.68 MHz	500 kHz	Pass

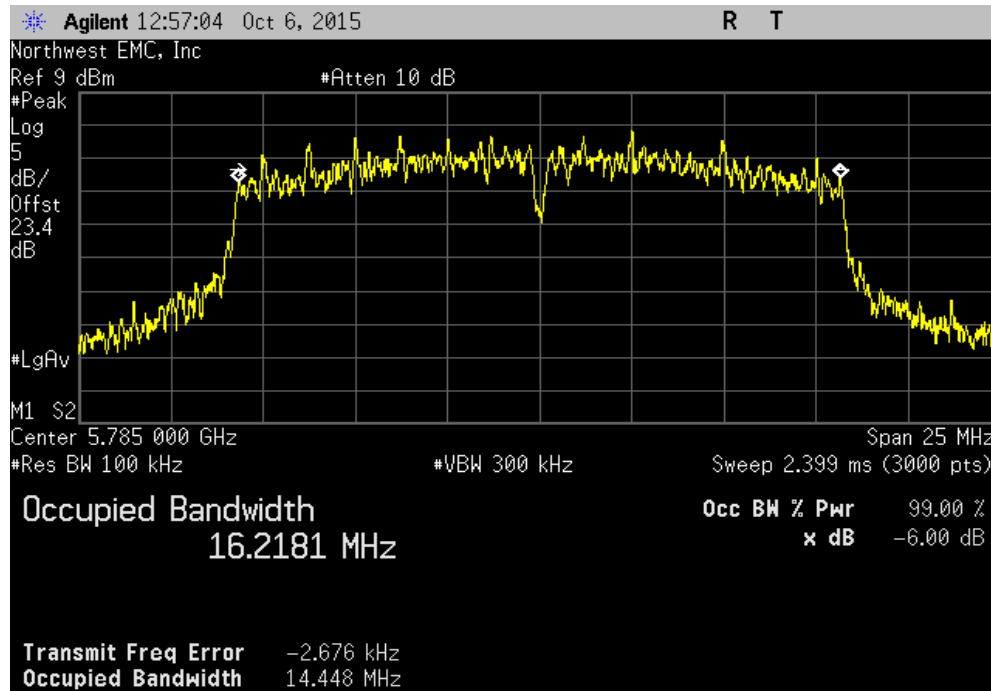


Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
				Value	Limit (>)	Result
				14.903 MHz	500 kHz	Pass

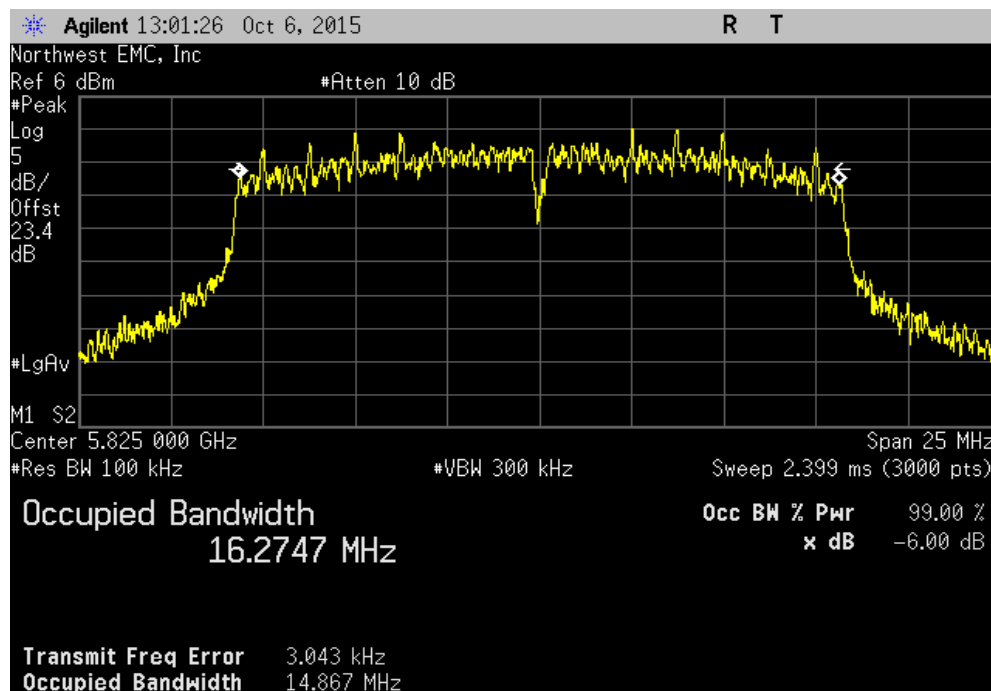


OCCUPIED BANDWIDTH

Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
				Value	Limit (>)	Result
				14.448 MHz	500 kHz	Pass

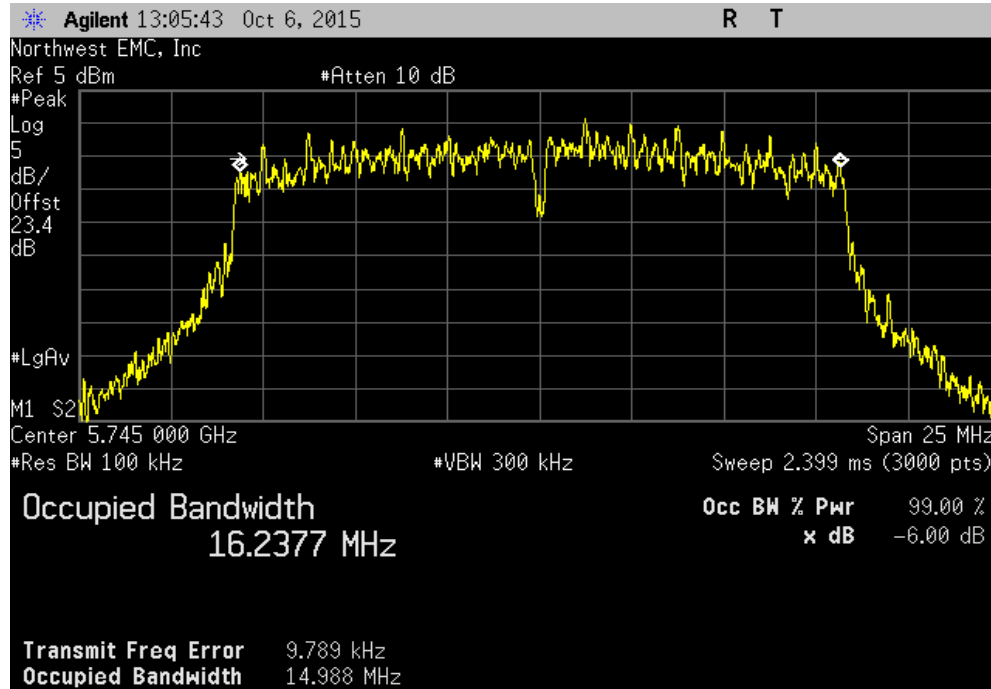


Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
				Value	Limit (>)	Result
				14.867 MHz	500 kHz	Pass

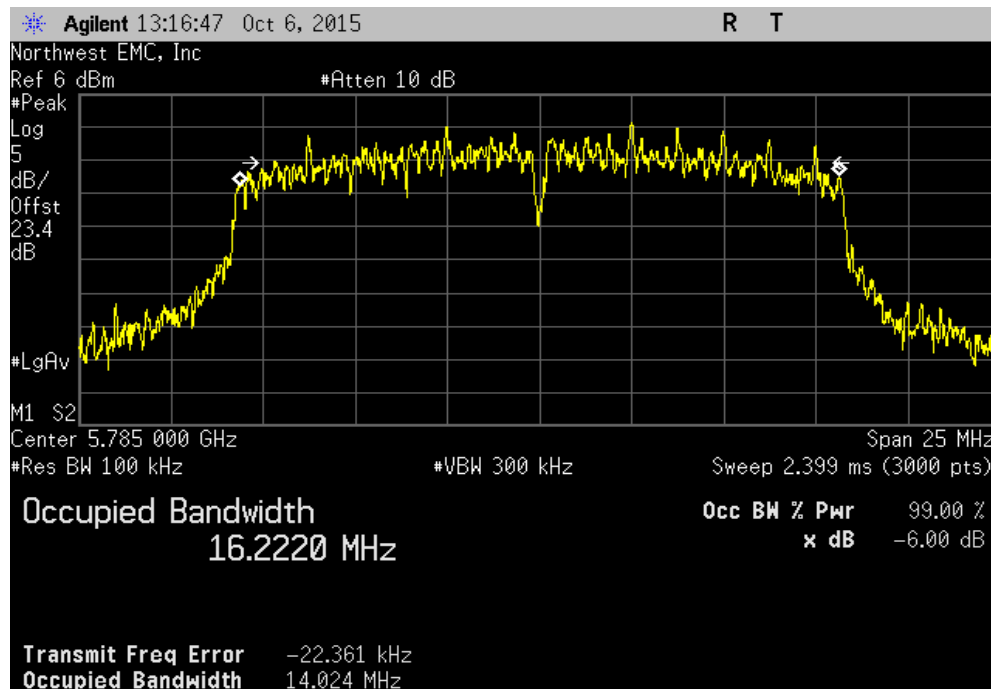


OCCUPIED BANDWIDTH

Ant 1, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
				Value	Limit	Result
				14.988 MHz	500 kHz	Pass

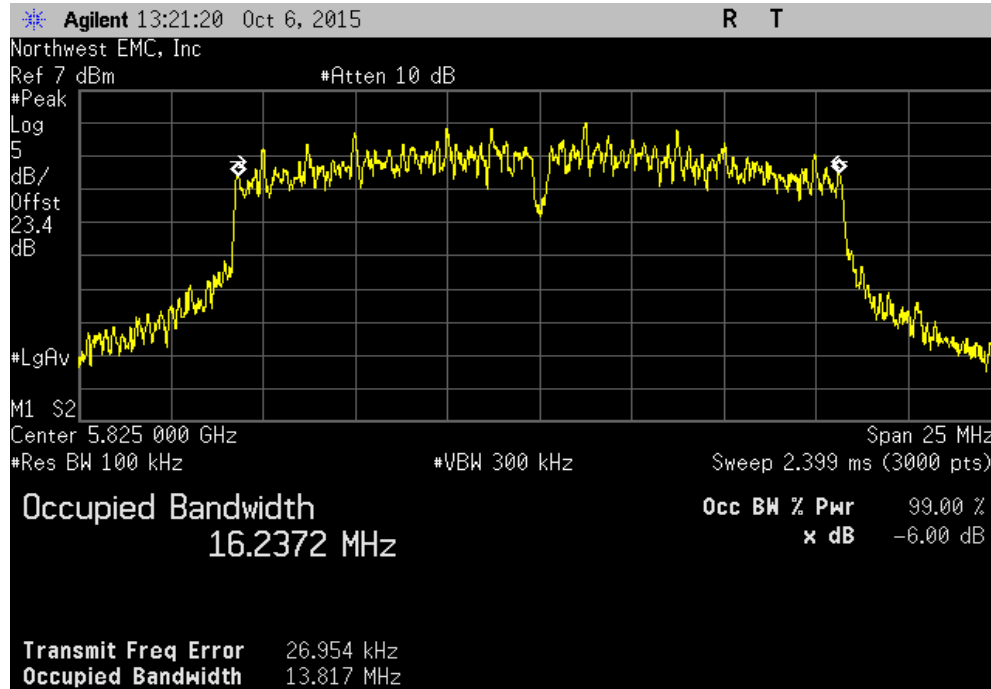


Ant 1, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
				Value	Limit	Result
				14.024 MHz	500 kHz	Pass

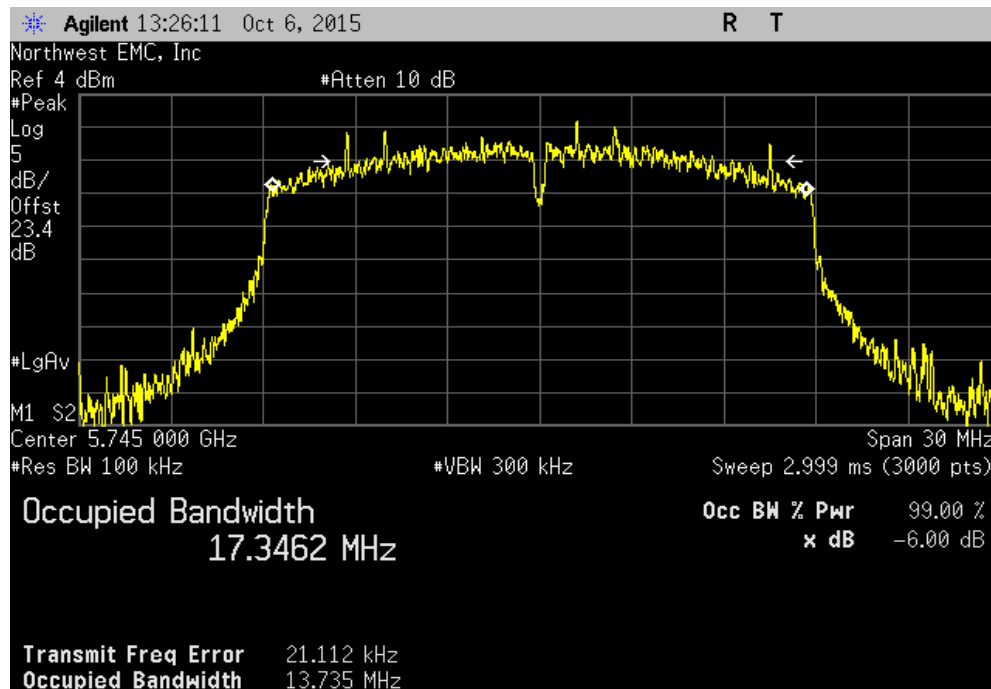


OCCUPIED BANDWIDTH

Ant 1, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
				Value	Limit	Result
				13.817 MHz	500 kHz	Pass



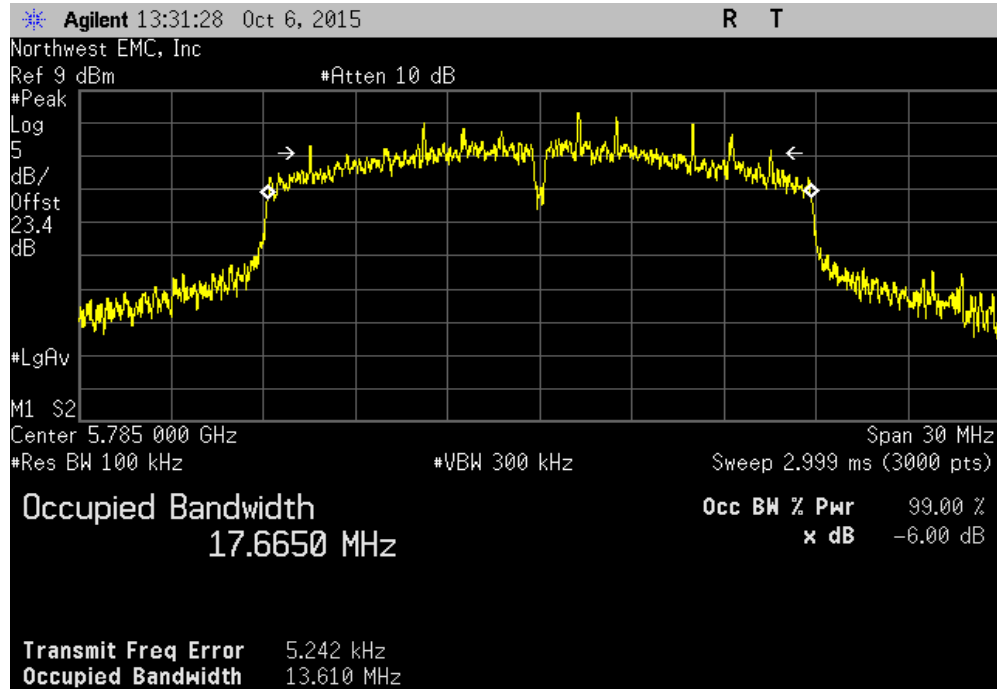
Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
				Value	Limit	Result
				13.735 MHz	500 kHz	Pass



OCCUPIED BANDWIDTH

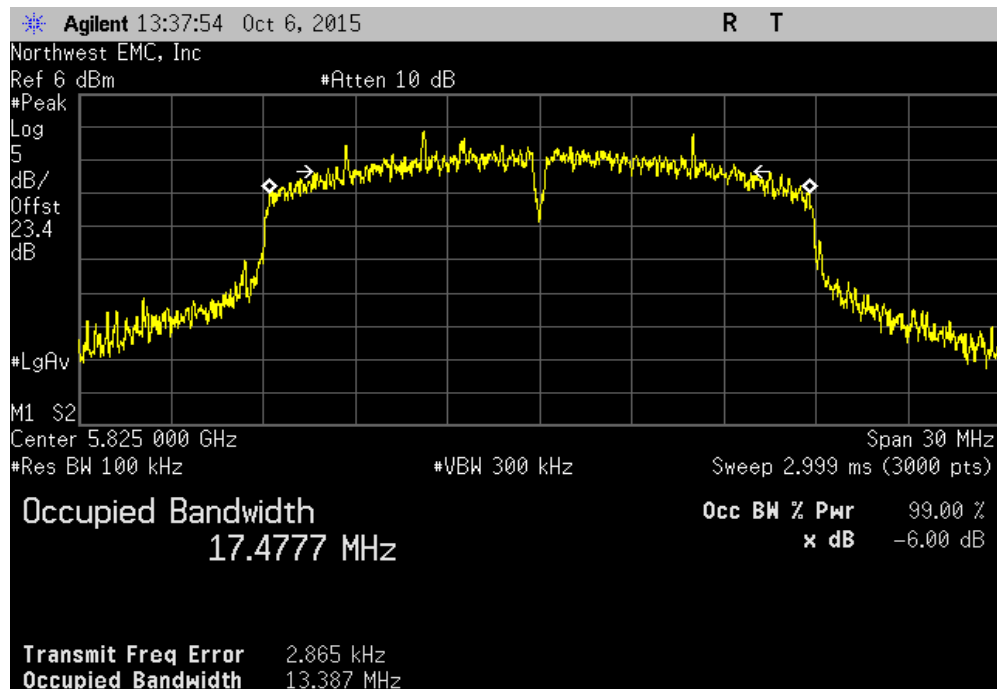
Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz

	Value	Limit (>)	Result
	13.61 MHz	500 kHz	Pass



Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz

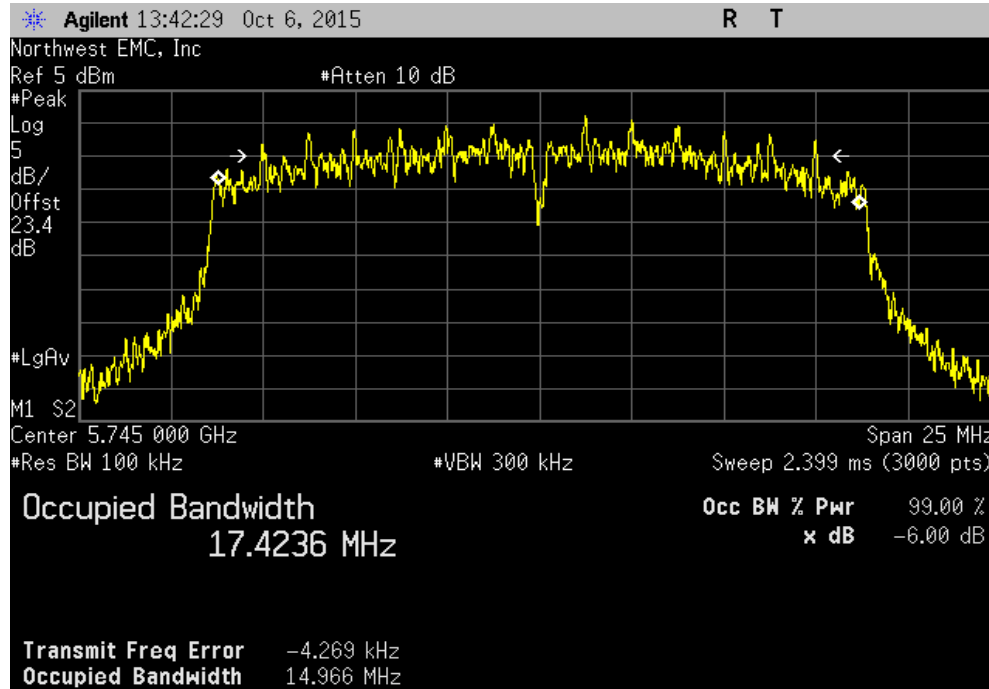
	Value	Limit (>)	Result
	13.387 MHz	500 kHz	Pass



OCCUPIED BANDWIDTH

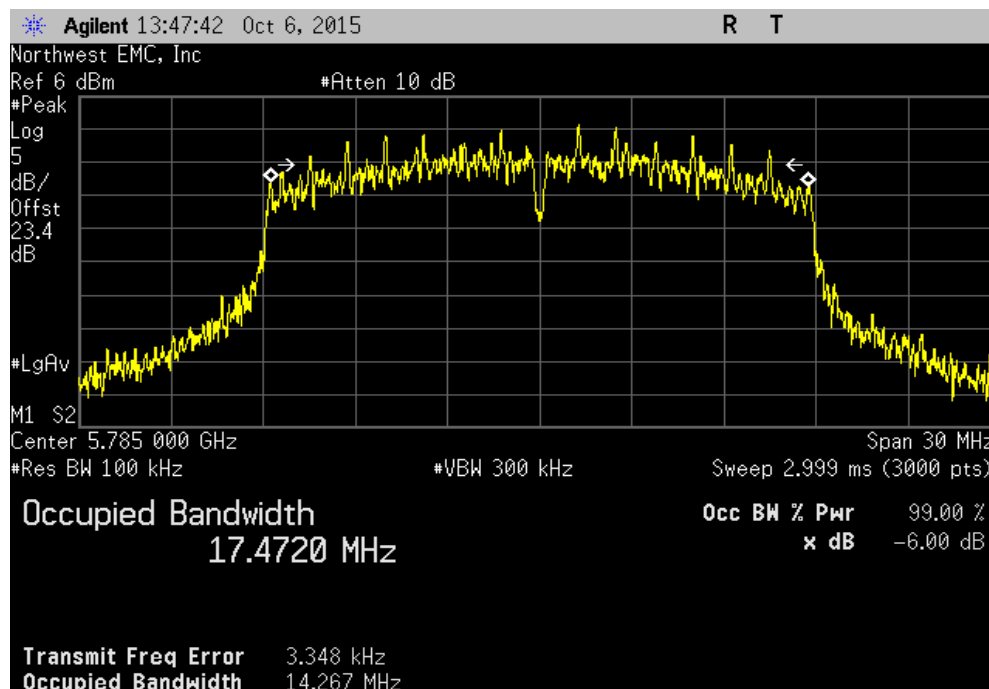
Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz

	Value	Limit	Result
	14.966 MHz	(> 500 kHz)	Pass



Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz

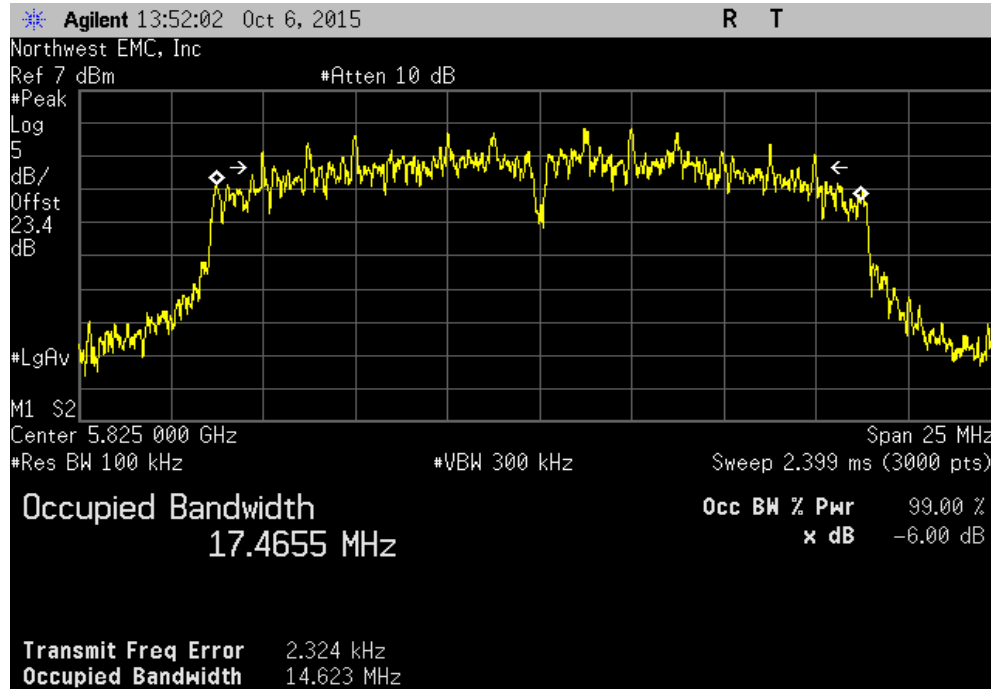
	Value	Limit	Result
	14.267 MHz	(> 500 kHz)	Pass



OCCUPIED BANDWIDTH

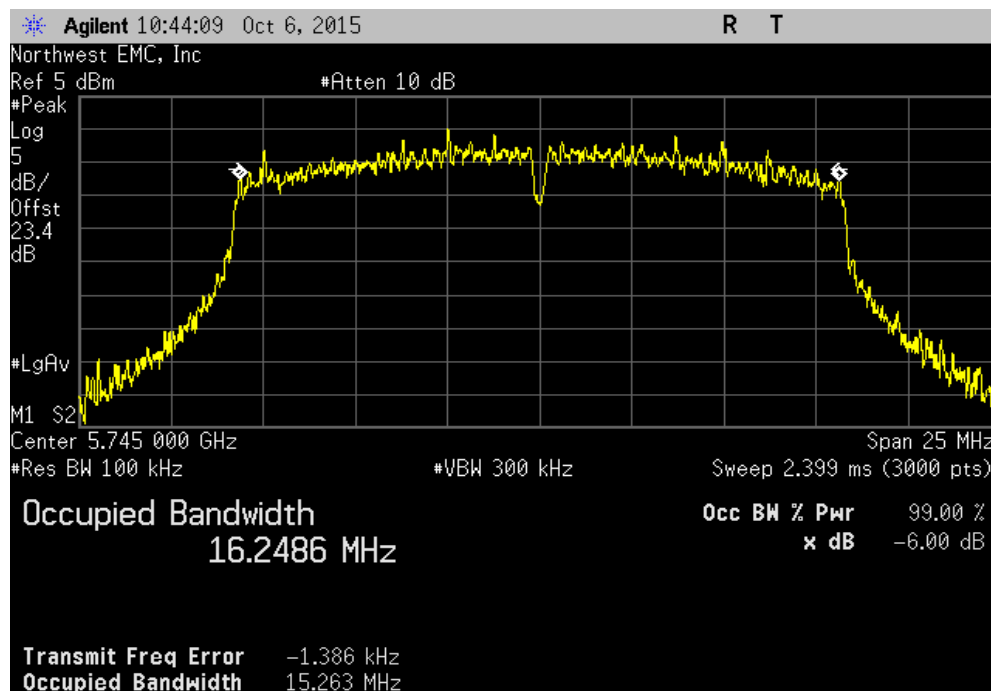
Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz

	Value	Limit (>)	Result
	14.623 MHz	500 kHz	Pass



Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz

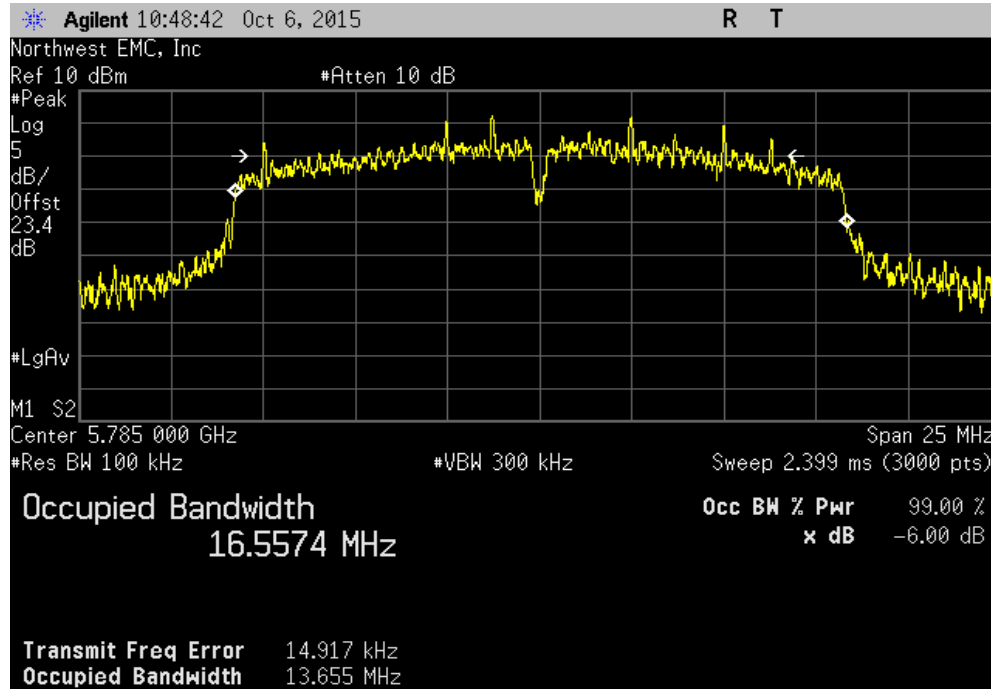
	Value	Limit (>)	Result
	15.263 MHz	500 kHz	Pass



OCCUPIED BANDWIDTH

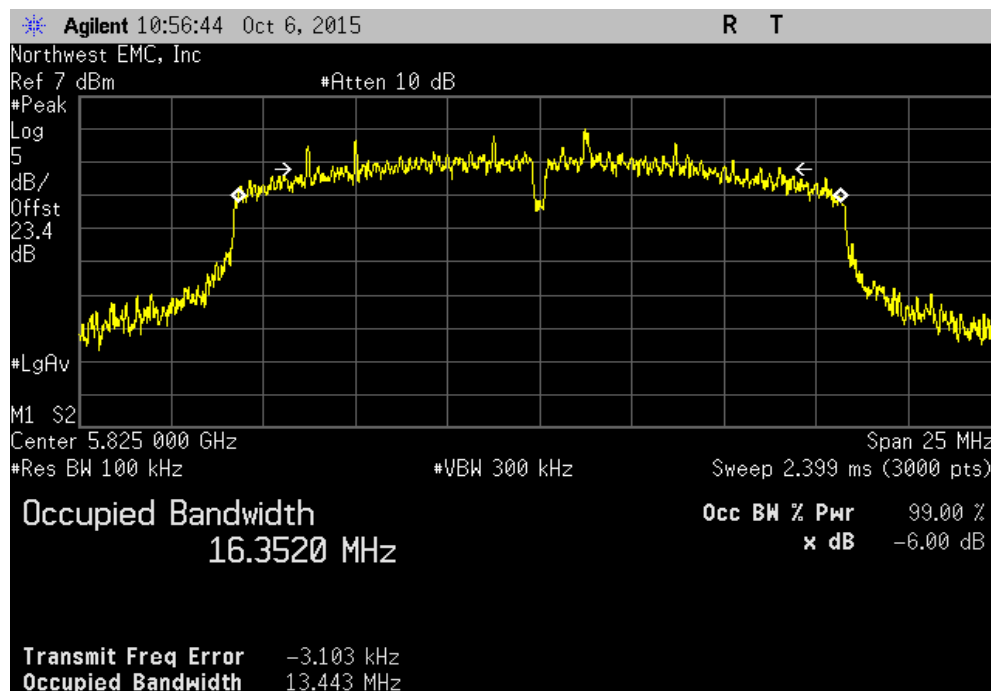
Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz

	Value	Limit (>)	Result
	13.655 MHz	500 kHz	Pass



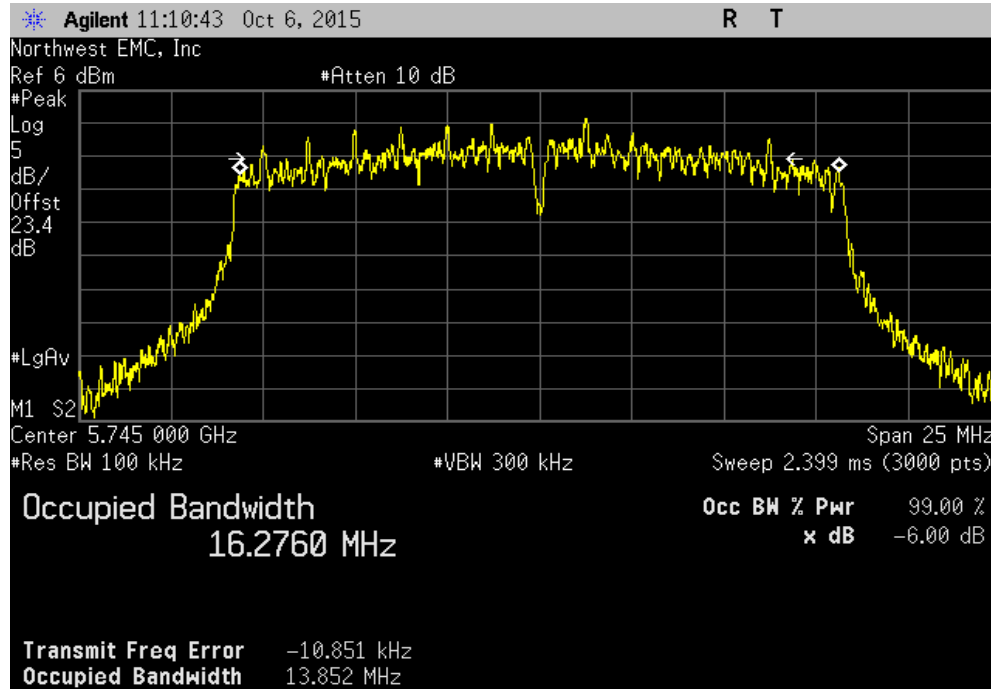
Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz

	Value	Limit (>)	Result
	13.443 MHz	500 kHz	Pass

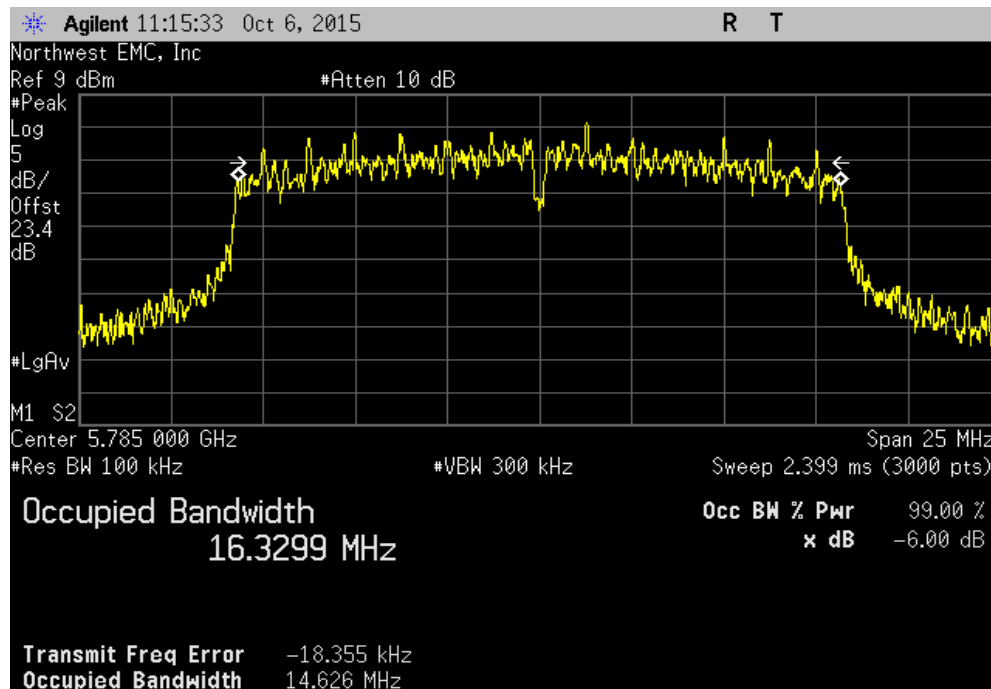


OCCUPIED BANDWIDTH

Ant 2, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
				Value	Limit (>)	Result
				13.852 MHz	500 kHz	Pass

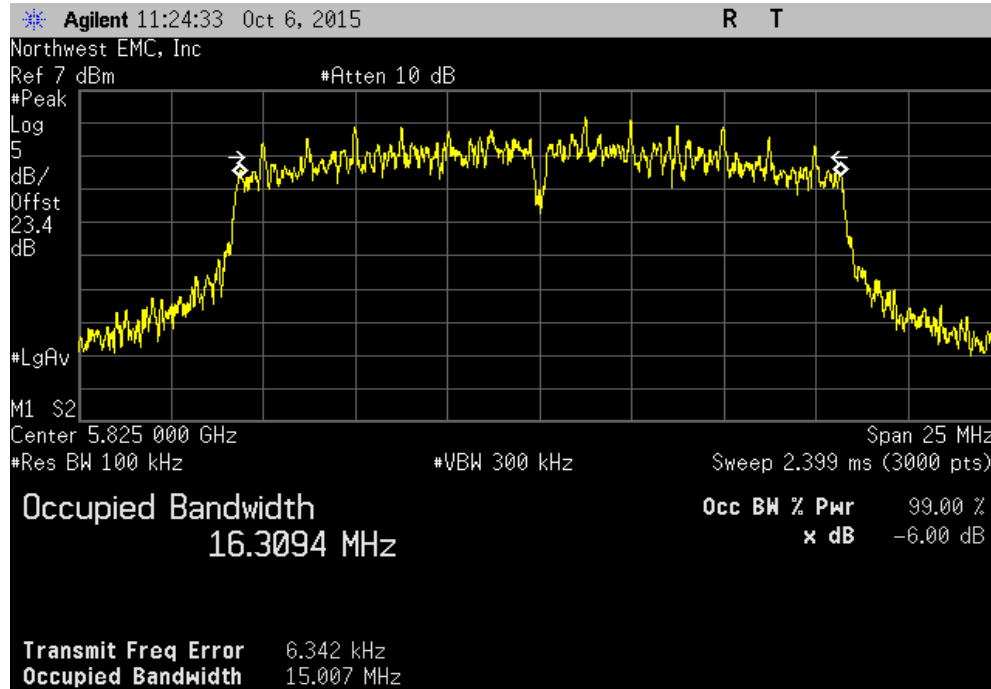


Ant 2, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
				Value	Limit (>)	Result
				14.626 MHz	500 kHz	Pass

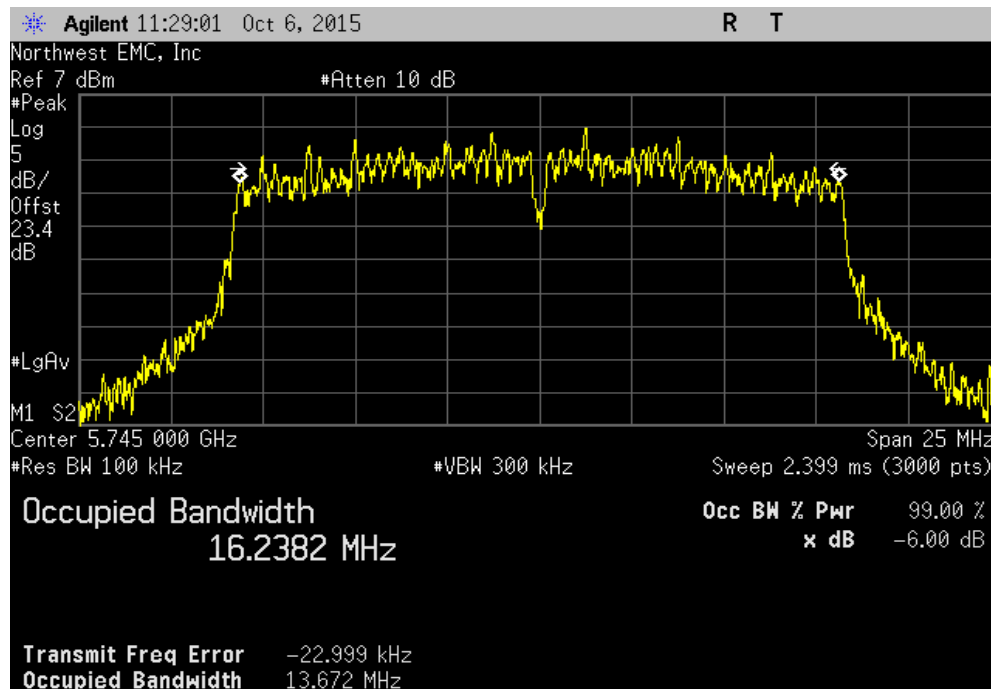


OCCUPIED BANDWIDTH

Ant 2, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
				Value	Limit	Result
				15.007 MHz	500 kHz	Pass

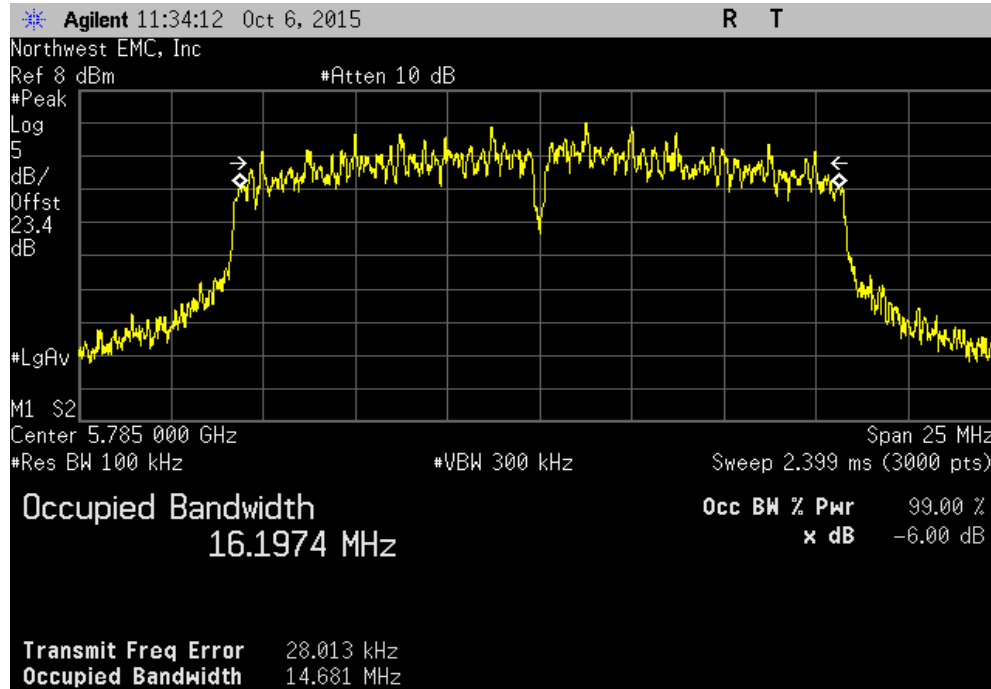


Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
				Value	Limit	Result
				13.672 MHz	500 kHz	Pass

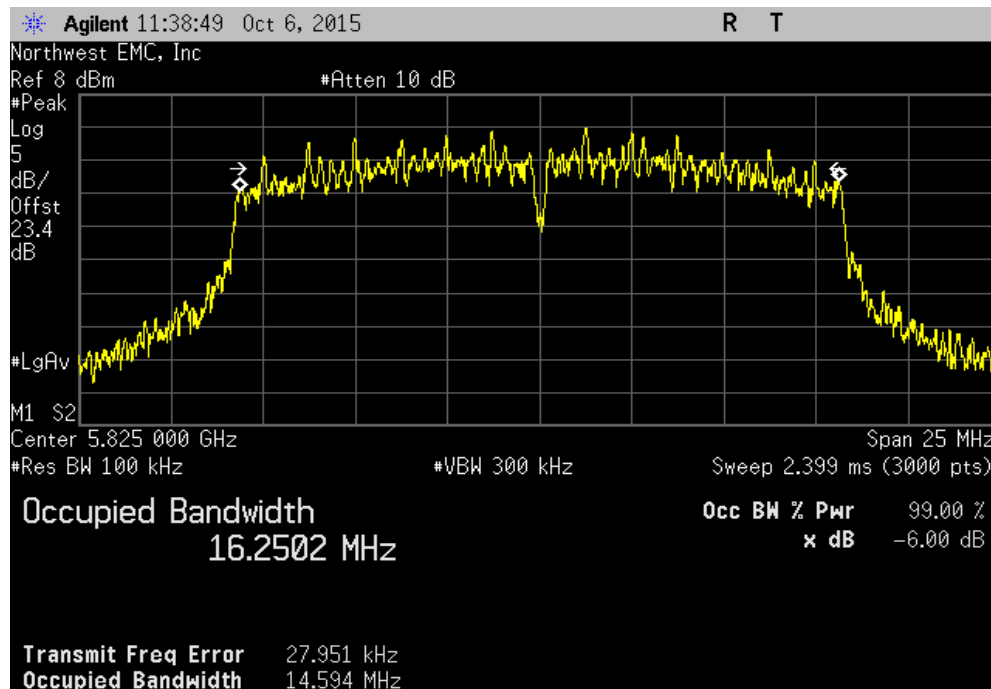


OCCUPIED BANDWIDTH

Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
				Value	Limit	Result
				14.681 MHz	500 kHz	Pass



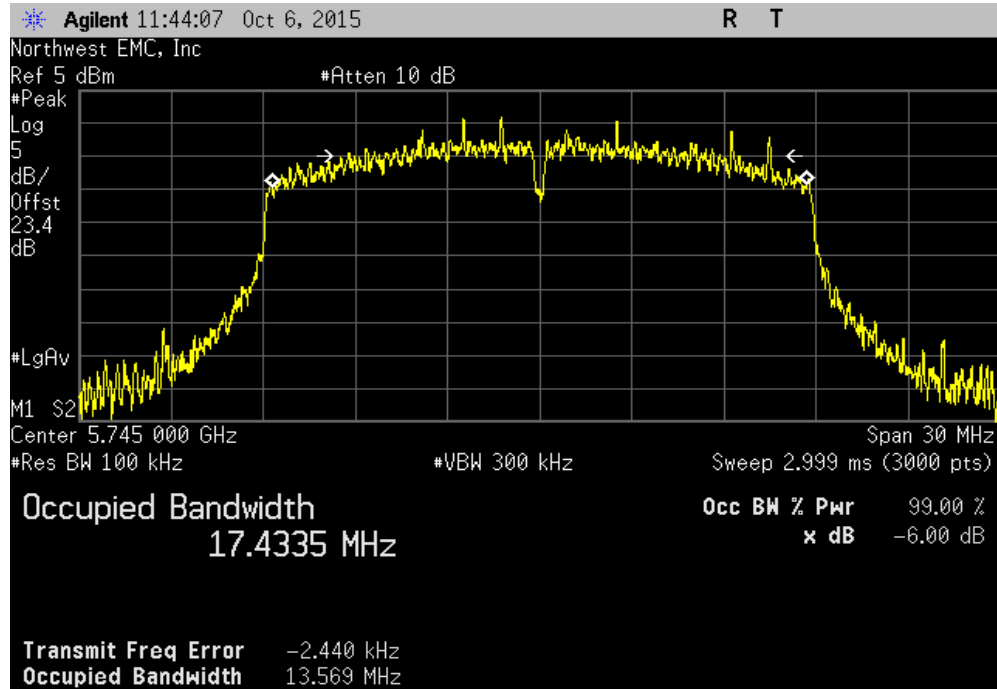
Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
				Value	Limit	Result
				14.594 MHz	500 kHz	Pass



OCCUPIED BANDWIDTH

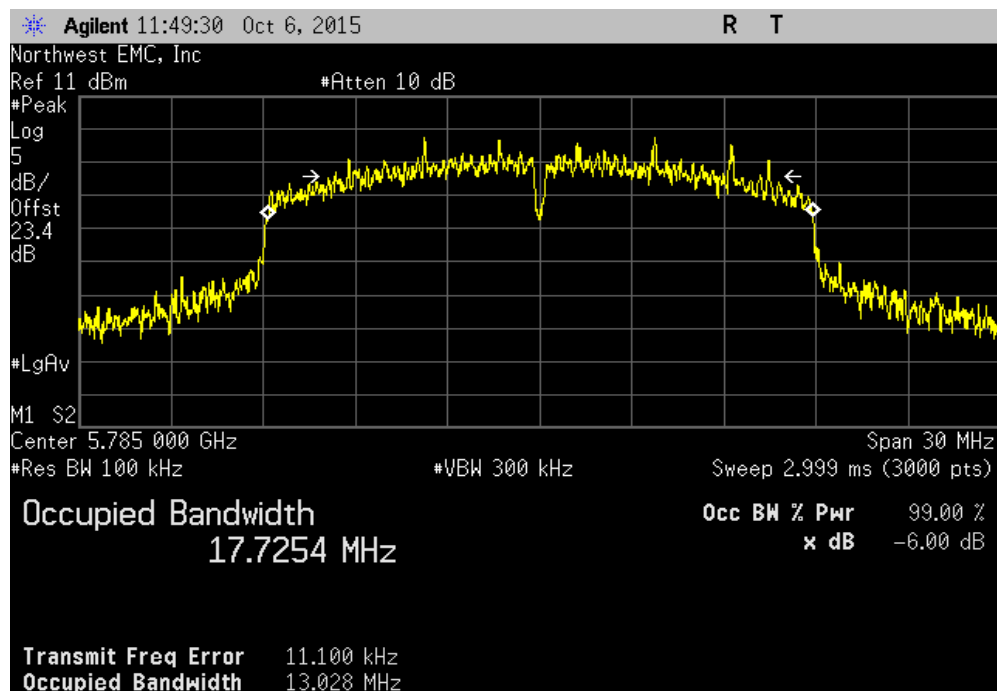
Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz

	Value	Limit	Result
	13.569 MHz	(> 500 kHz	Pass



Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz

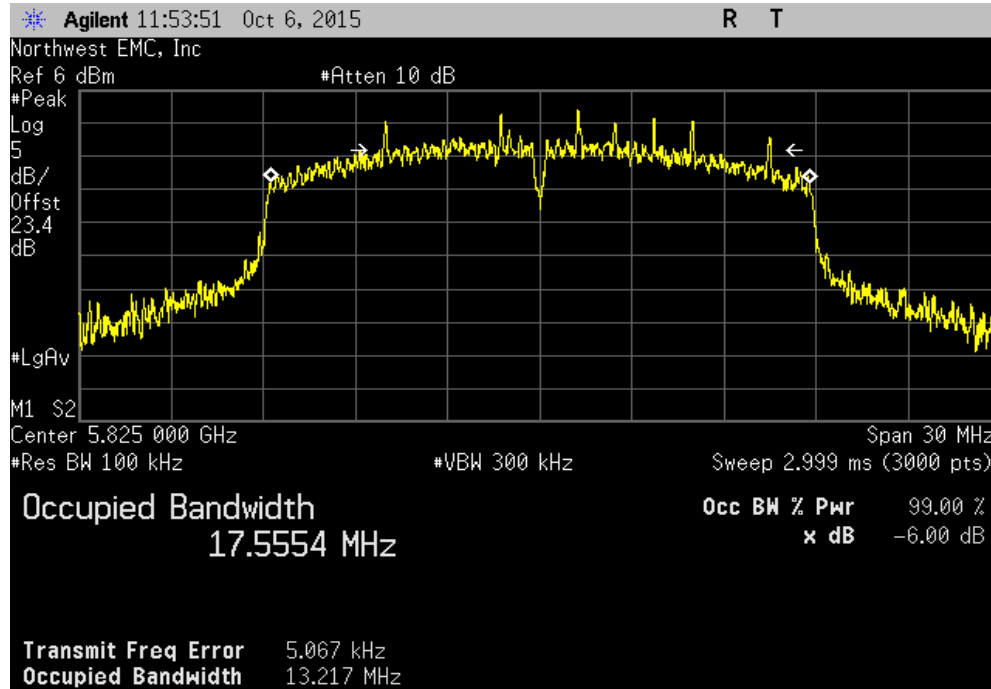
	Value	Limit	Result
	13.028 MHz	(> 500 kHz	Pass



OCCUPIED BANDWIDTH

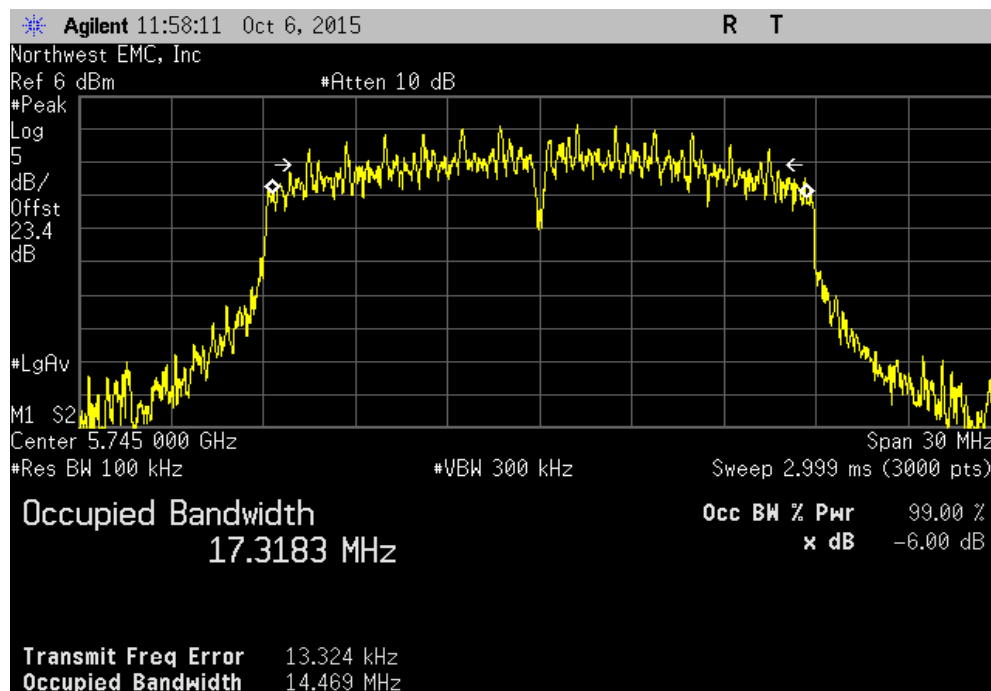
Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz

	Value	Limit (>)	Result
	13.217 MHz	500 kHz	Pass



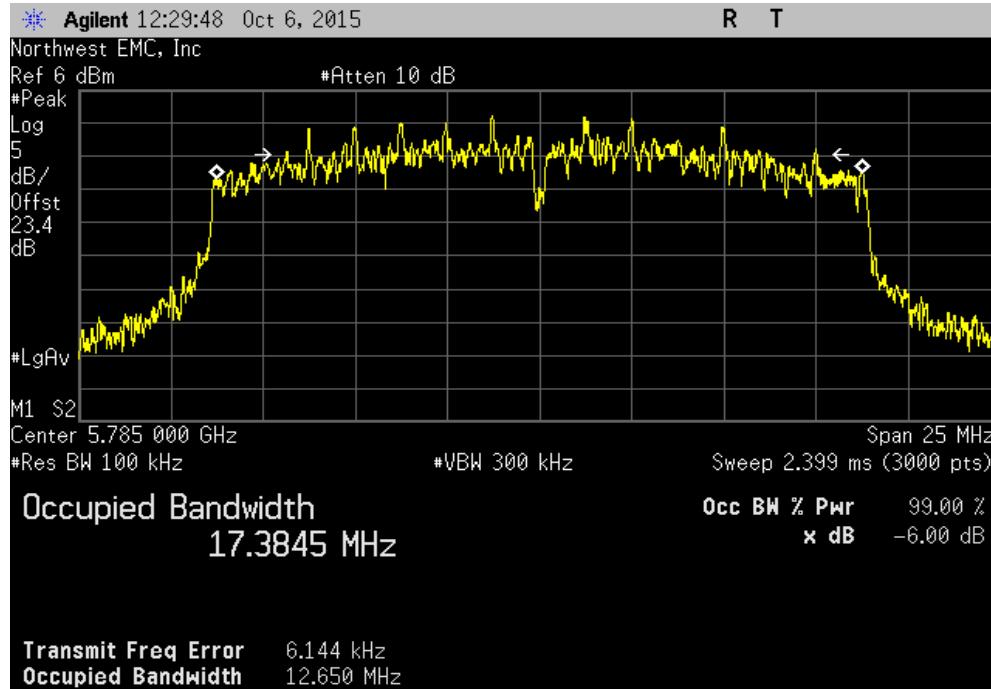
Ant 2, 802.11(n) MCS7, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz

	Value	Limit (>)	Result
	14.469 MHz	500 kHz	Pass



OCCUPIED BANDWIDTH

Ant 2, 802.11(n) MCS7, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
				Value	Limit (>)	Result
				12.65 MHz	500 kHz	Pass



Ant 2, 802.11(n) MCS7, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
				Value	Limit (>)	Result
				14.578 MHz	500 kHz	Pass

