

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

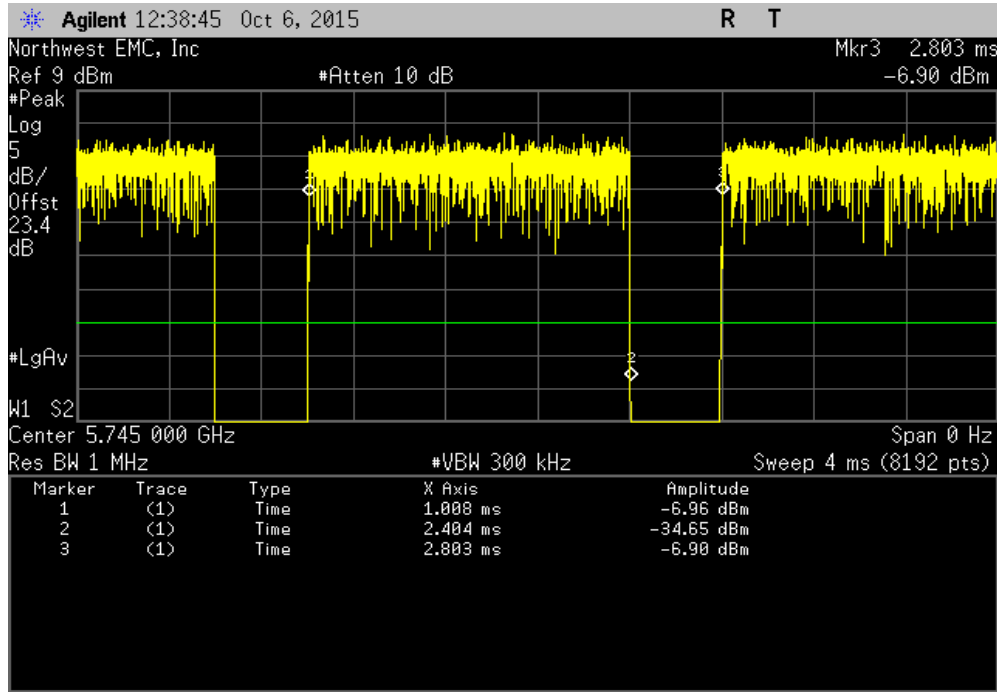


XMit 2015.01.14

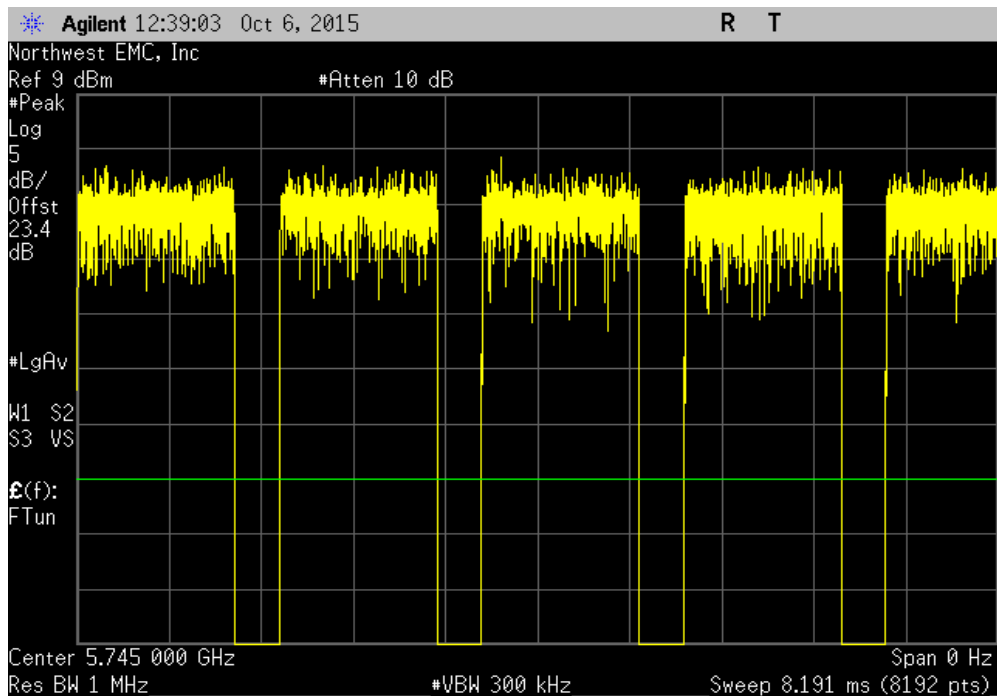
EUT: Precor Wi-Fi / Bluetooth Module Model 303346		Work Order: PRCR0230	
Serial Number: None		Date: 10/06/15	
Customer: Precor, Inc.		Temperature: 23°C	
Attendees: Rich Whitbeck		Humidity: 46%	
Project: None		Barometric Pres.: 1015mb	
Tested by: Richard Melloth		Power: 110VAC/60Hz	
		Job Site: NC02	
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 <i>Rust</i>	
		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
	Low Channel 149, 5745 MHz	N/A	N/A
	Mid Channel 157, 5785 MHz	1.395 ms	1.804 ms
	Mid Channel 157, 5785 MHz	N/A	N/A
	High Channel 165, 5825 MHz	1.395 ms	1.804 ms
	High Channel 165, 5825 MHz	N/A	N/A
	802.11(a) 36 Mbps		
	5725 - 5825 MHz Band		
	Low Channel 149, 5745 MHz	246.9 us	655.1 us
	Low Channel 149, 5745 MHz	N/A	N/A
	Mid Channel 157, 5785 MHz	246.9 us	646.3 us
	Mid Channel 157, 5785 MHz	N/A	N/A
	High Channel 165, 5825 MHz	246.9 us	646.3 us
	High Channel 165, 5825 MHz	N/A	N/A
	802.11(a) 54 Mbps		
	5725 - 5825 MHz Band		
	Low Channel 149, 5745 MHz	170.9 us	579.1 us
	Low Channel 149, 5745 MHz	N/A	N/A
	Mid Channel 157, 5785 MHz	171 us	570.4 us
	Mid Channel 157, 5785 MHz	N/A	N/A
	High Channel 165, 5825 MHz	171 us	570.4 us
	High Channel 165, 5825 MHz	N/A	N/A
	802.11(n) MCS0		
	5725 - 5825 MHz Band		
	Low Channel 149, 5745 MHz	1.303 ms	1.702 ms
	Low Channel 149, 5745 MHz	N/A	N/A
	Mid Channel 157, 5785 MHz	1.303 ms	1.711 ms
	Mid Channel 157, 5785 MHz	N/A	N/A
	High Channel 165, 5825 MHz	1.303 ms	1.702 ms
	High Channel 165, 5825 MHz	N/A	N/A
	802.11(n) MCS7		
	5725 - 5825 MHz Band		
	Low Channel 149, 5745 MHz	158.7 us	567.2 us
	Low Channel 149, 5745 MHz	N/A	N/A
	Mid Channel 157, 5785 MHz	158.7 us	558.1 us
	Mid Channel 157, 5785 MHz	N/A	N/A
	High Channel 165, 5825 MHz	158.7 us	567.2 us
	High Channel 165, 5825 MHz	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
	Low Channel 149, 5745 MHz	N/A	N/A
	Mid Channel 157, 5785 MHz	1.395 ms	1.803 ms
	Mid Channel 157, 5785 MHz	N/A	N/A
	High Channel 165, 5825 MHz	1.395 ms	1.794 ms
	High Channel 165, 5825 MHz	N/A	N/A
	802.11(a) 36 Mbps		
	5725 - 5825 MHz Band		
	Low Channel 149, 5745 MHz	246.6 us	655.1 us
	Low Channel 149, 5745 MHz	N/A	N/A
	Mid Channel 157, 5785 MHz	246.8 us	655.3 us
	Mid Channel 157, 5785 MHz	N/A	N/A
	High Channel 165, 5825 MHz	246.7 us	646.1 us
	High Channel 165, 5825 MHz	N/A	N/A
	802.11(a) 54 Mbps		
	5725 - 5825 MHz Band		
	Low Channel 149, 5745 MHz	170.9 us	570.1 us
	Low Channel 149, 5745 MHz	N/A	N/A
	Mid Channel 157, 5785 MHz	170.9 us	570.4 us
	Mid Channel 157, 5785 MHz	N/A	N/A
	High Channel 165, 5825 MHz	170.7 us	579.2 us
	High Channel 165, 5825 MHz	N/A	N/A
	802.11(n) MCS0		
	5725 - 5825 MHz Band		
	Low Channel 149, 5745 MHz	1.303 ms	1.711 ms
	Low Channel 149, 5745 MHz	N/A	N/A
	Mid Channel 157, 5785 MHz	1.303 ms	1.702 ms
	Mid Channel 157, 5785 MHz	N/A	N/A
	High Channel 165, 5825 MHz	1.303 ms	1.702 ms
	High Channel 165, 5825 MHz	N/A	N/A
	802.11(n) MCS7		
	5725 - 5825 MHz Band		
	Low Channel 149, 5745 MHz	158.9 us	558.2 us
	Low Channel 149, 5745 MHz	N/A	N/A
	Mid Channel 157, 5785 MHz	158.7 us	558.1 us
	Mid Channel 157, 5785 MHz	N/A	N/A
	High Channel 165, 5825 MHz	158.7 us	567.2 us
	High Channel 165, 5825 MHz	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	

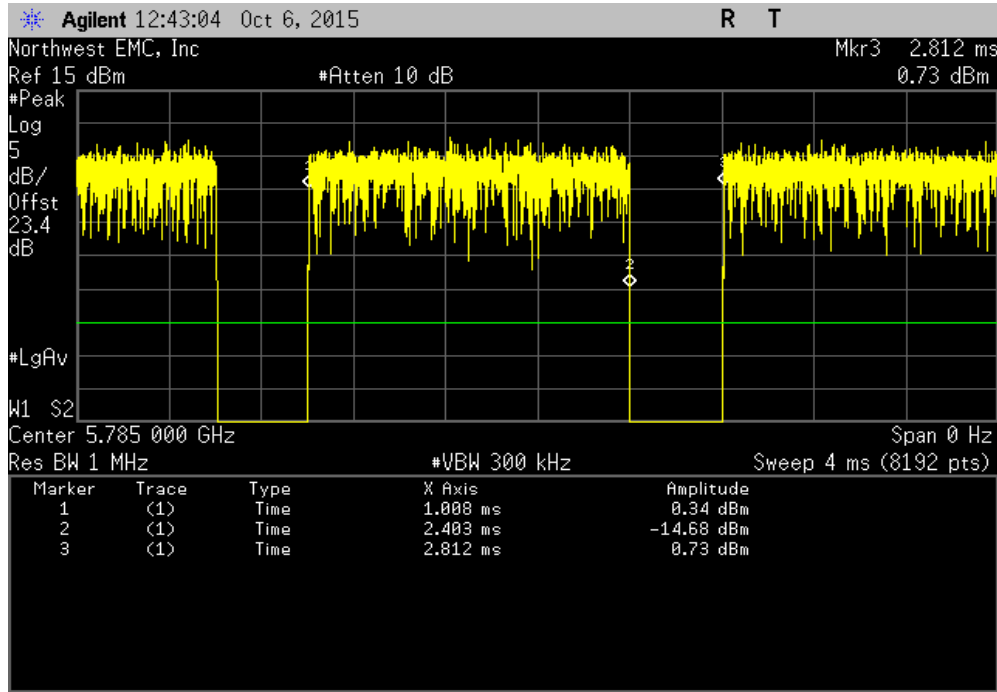


Ant 1, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

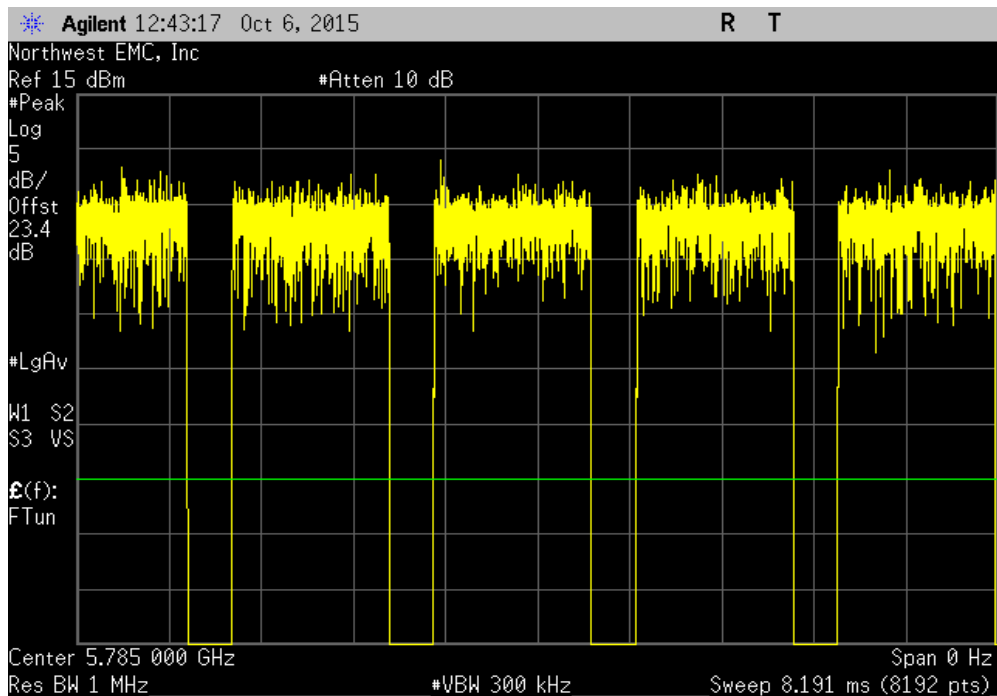


DUTY CYCLE

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	

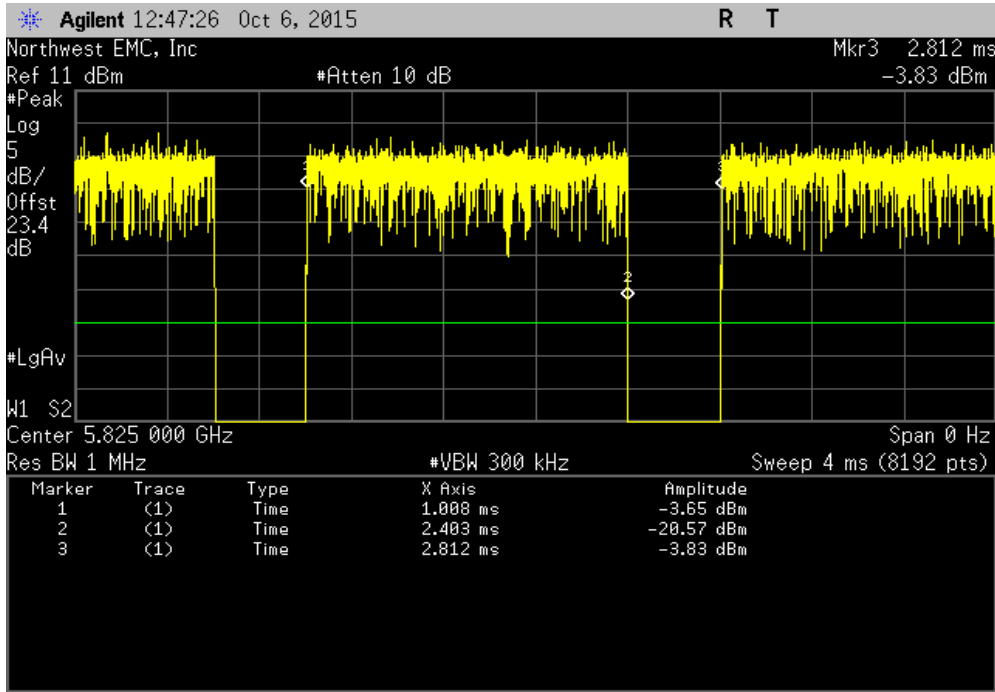


Ant 1, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

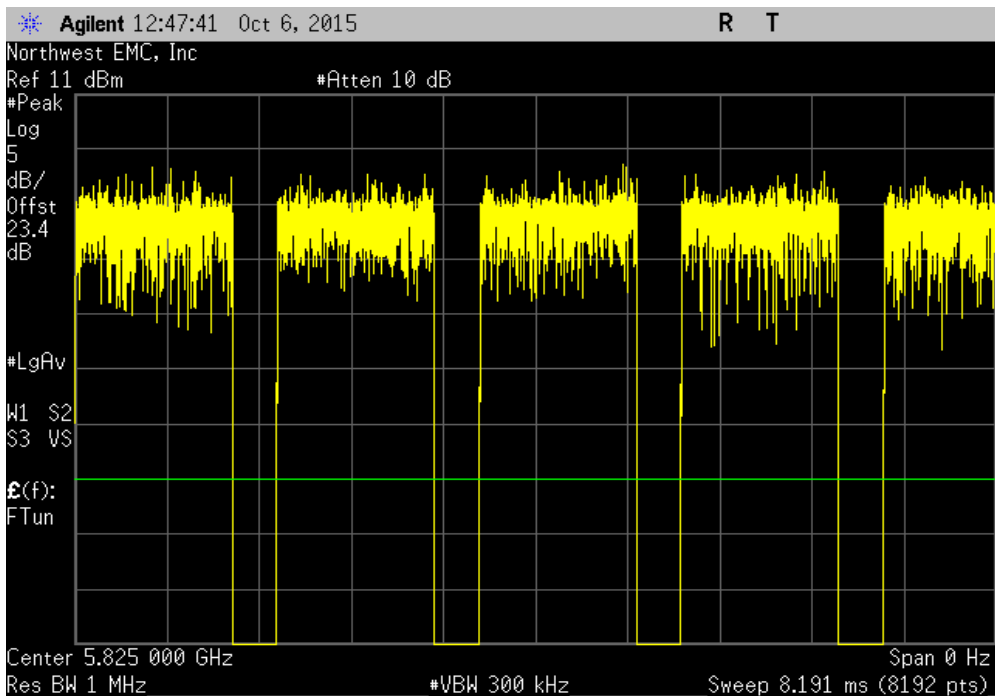


DUTY CYCLE

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	

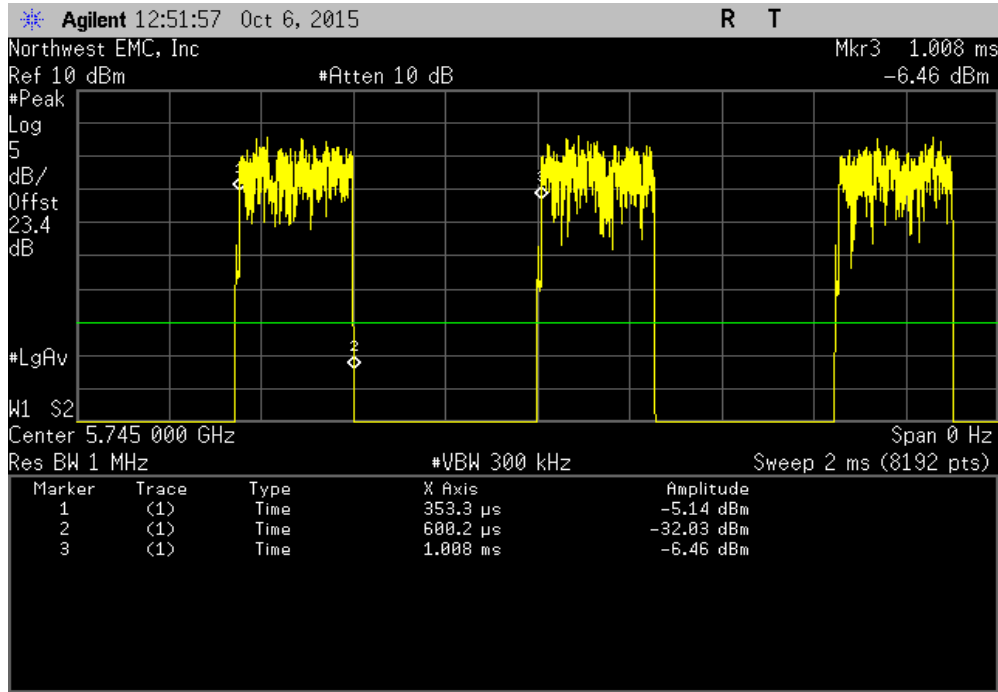


Ant 1, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

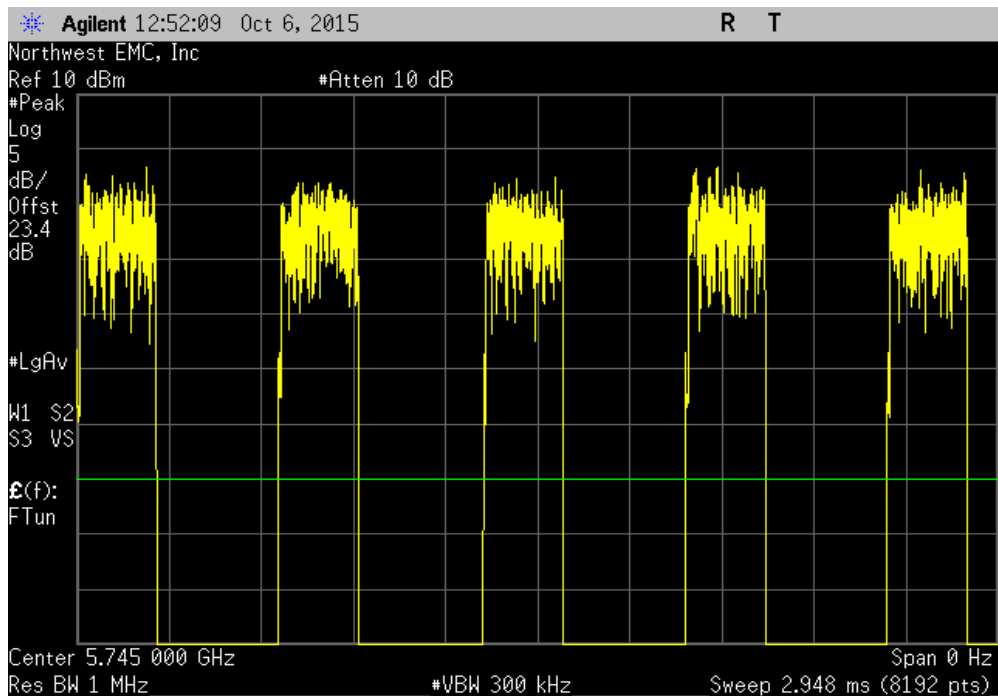


DUTY CYCLE

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	

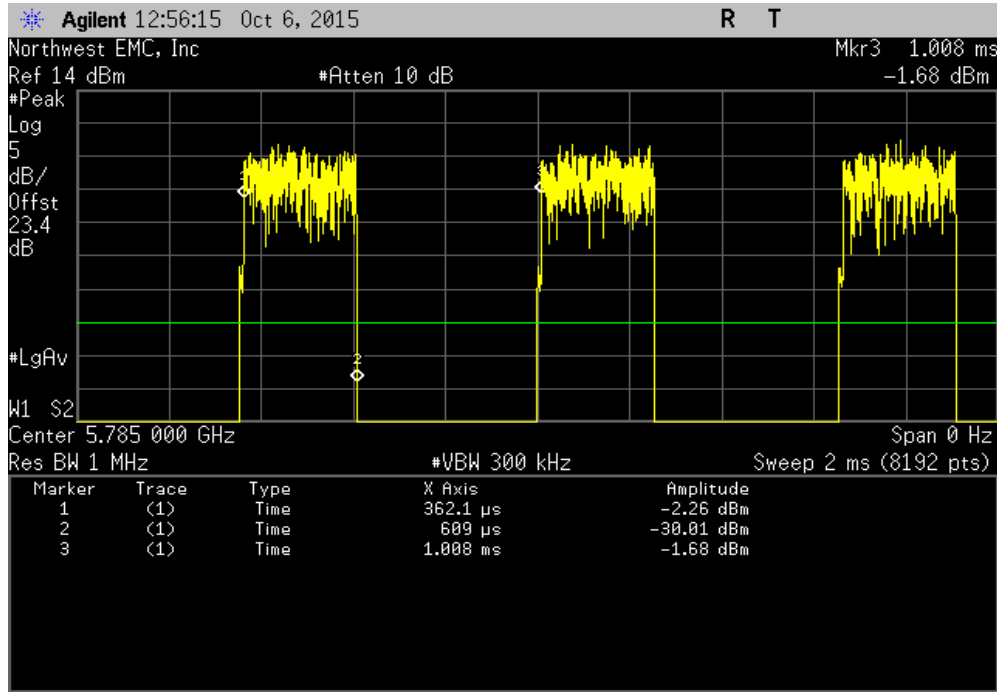


Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

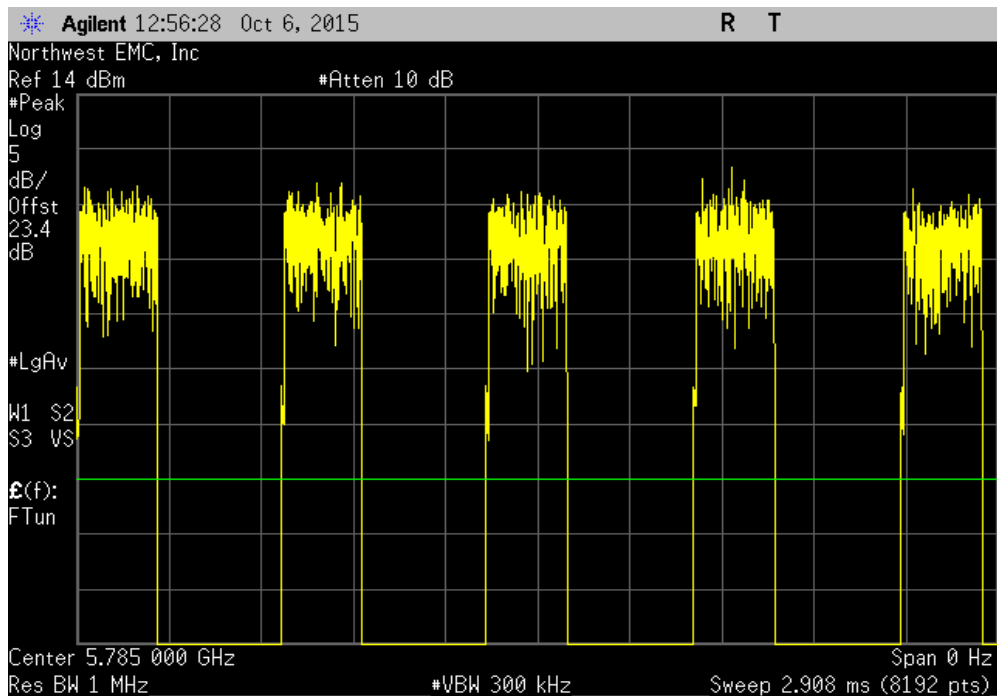


DUTY CYCLE

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	

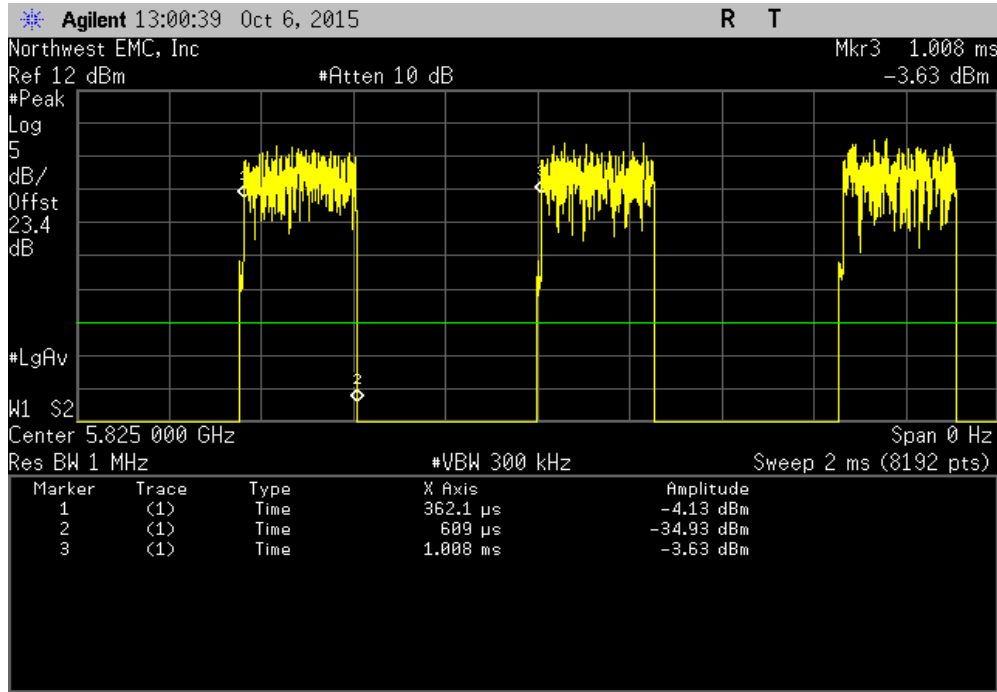


Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

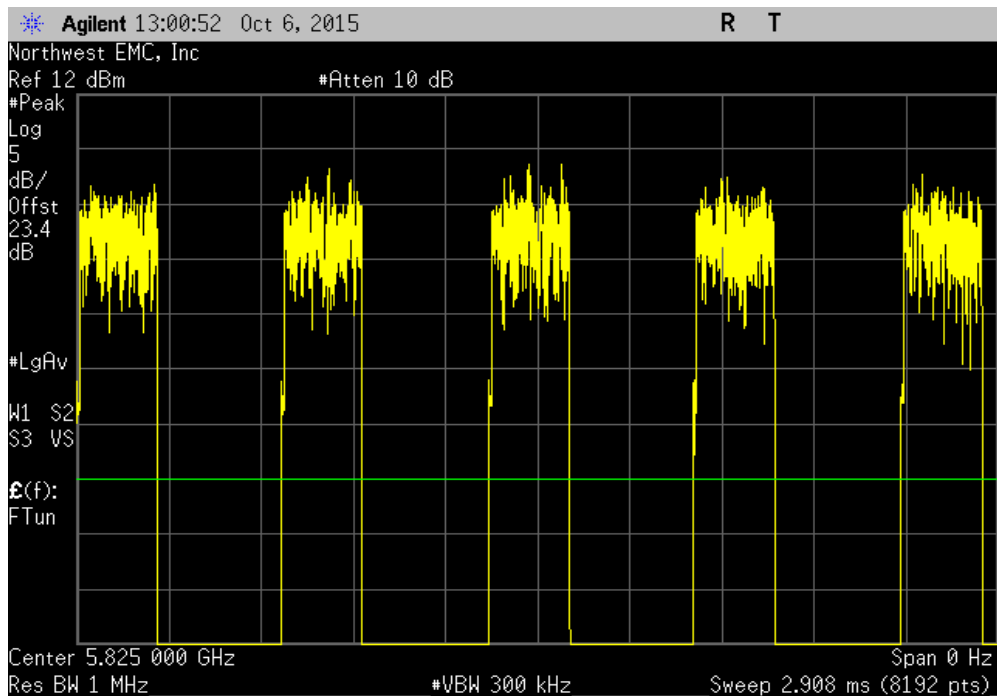


DUTY CYCLE

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	

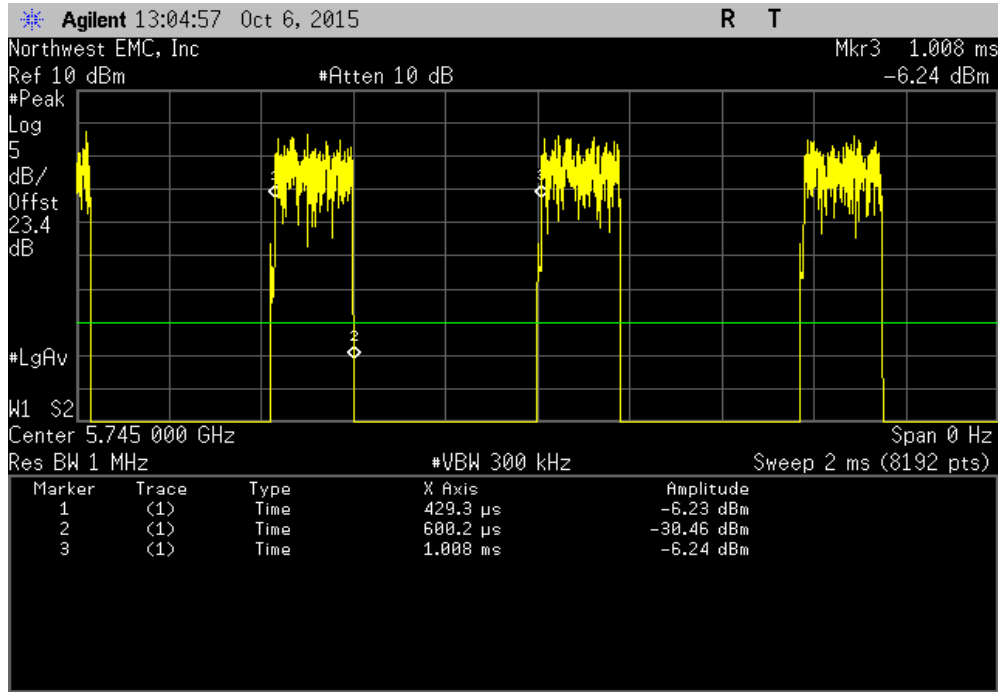


Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

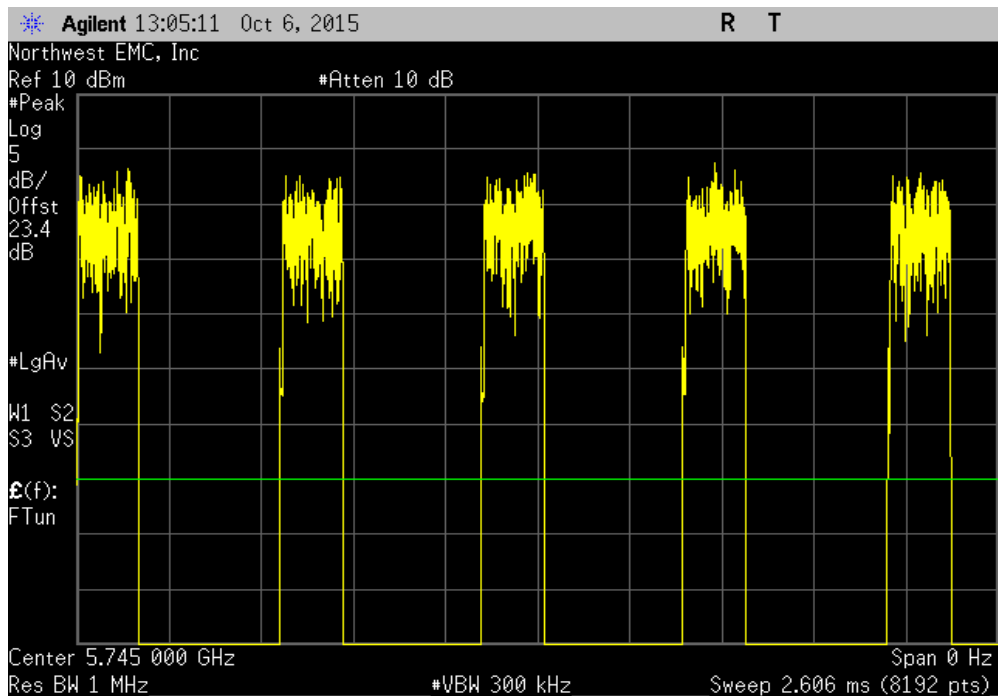


DUTY CYCLE

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	

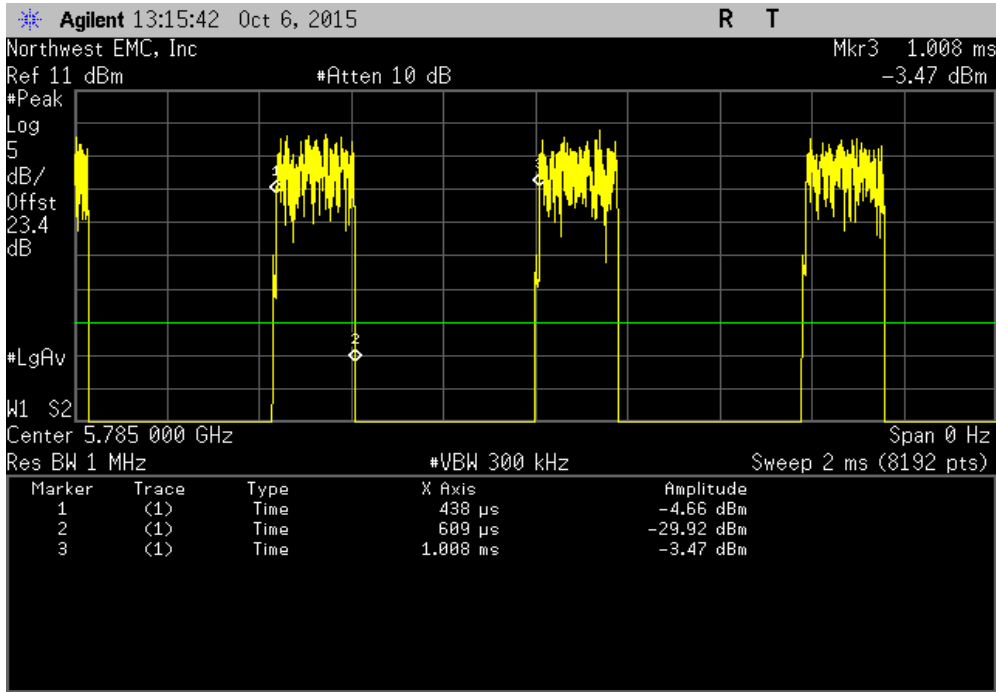


Ant 1, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	

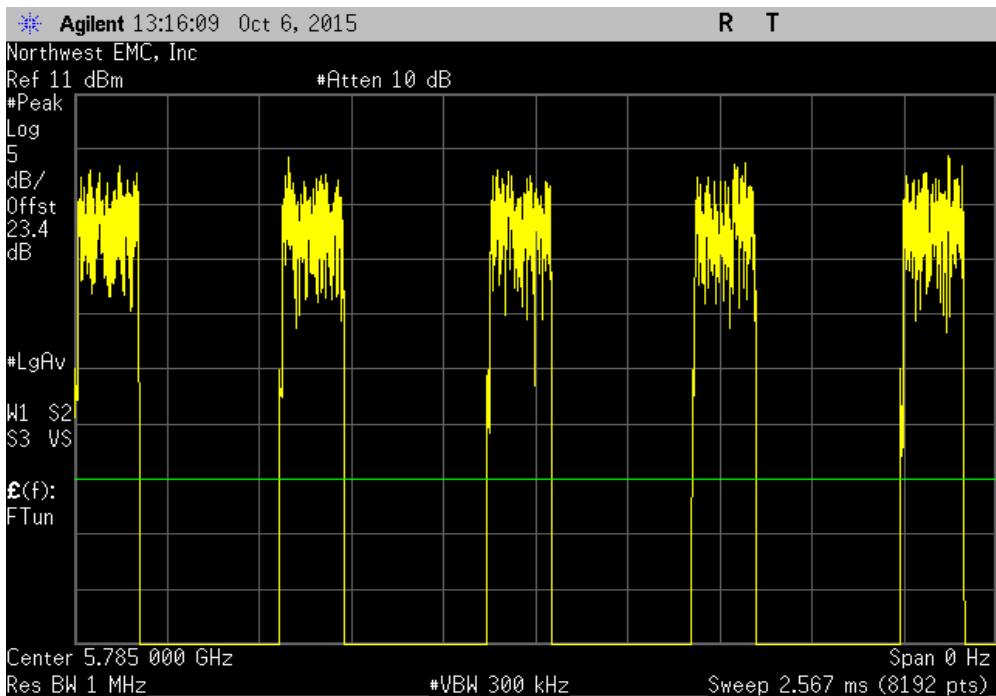


DUTY CYCLE

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	

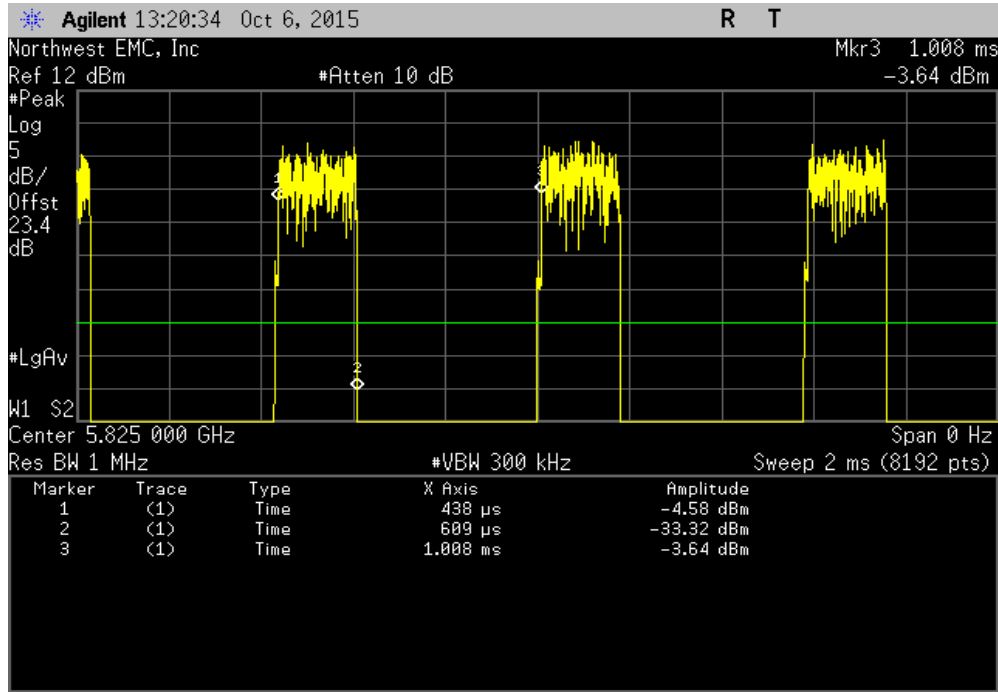


Ant 1, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

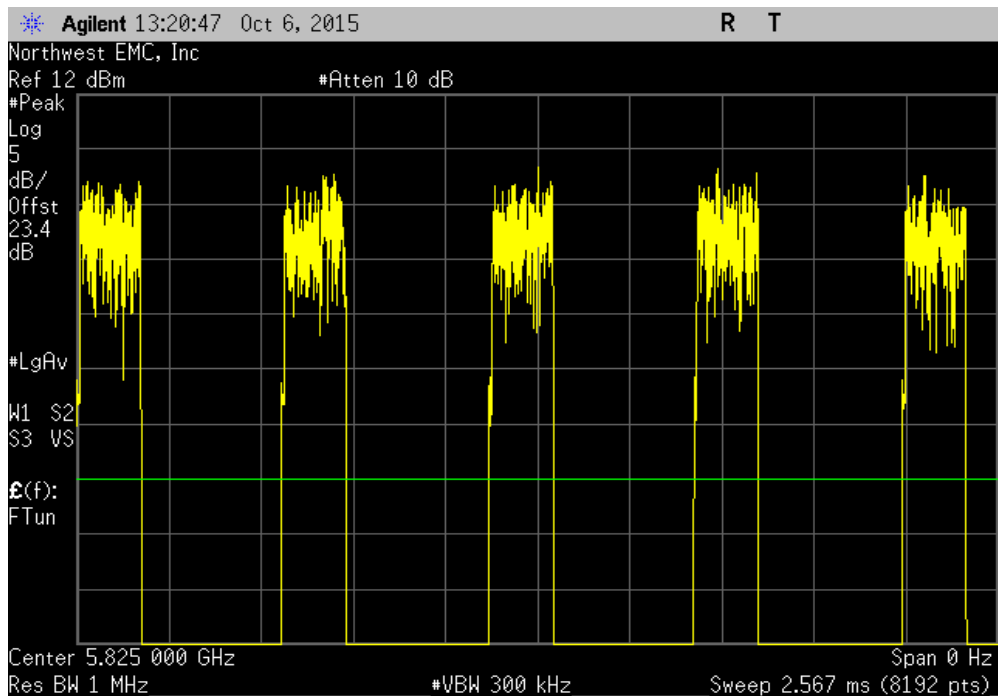


DUTY CYCLE

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	

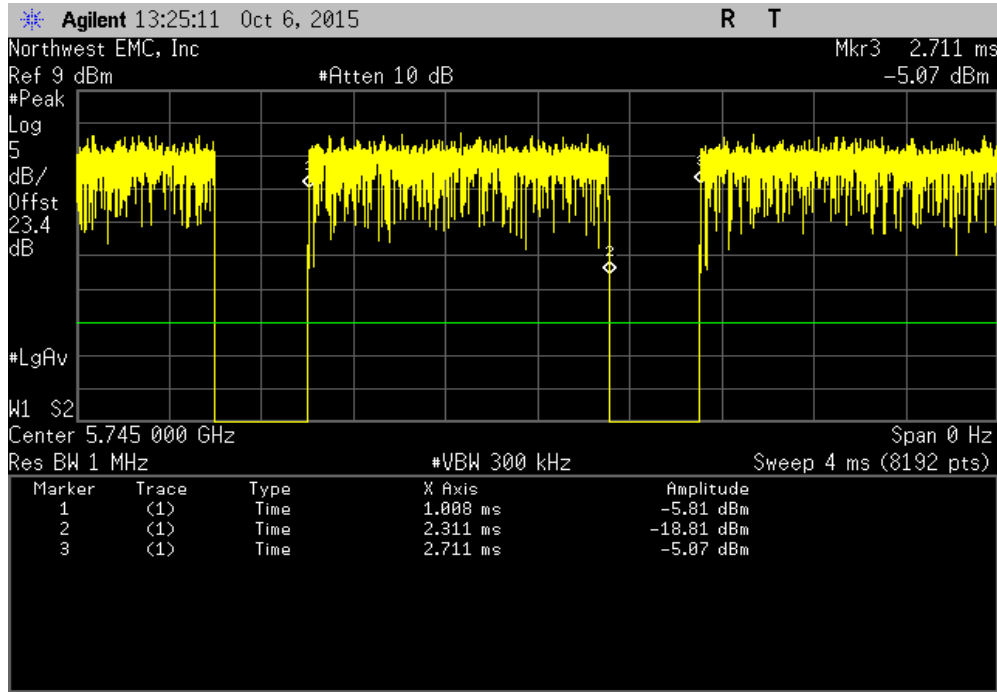


Ant 1, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

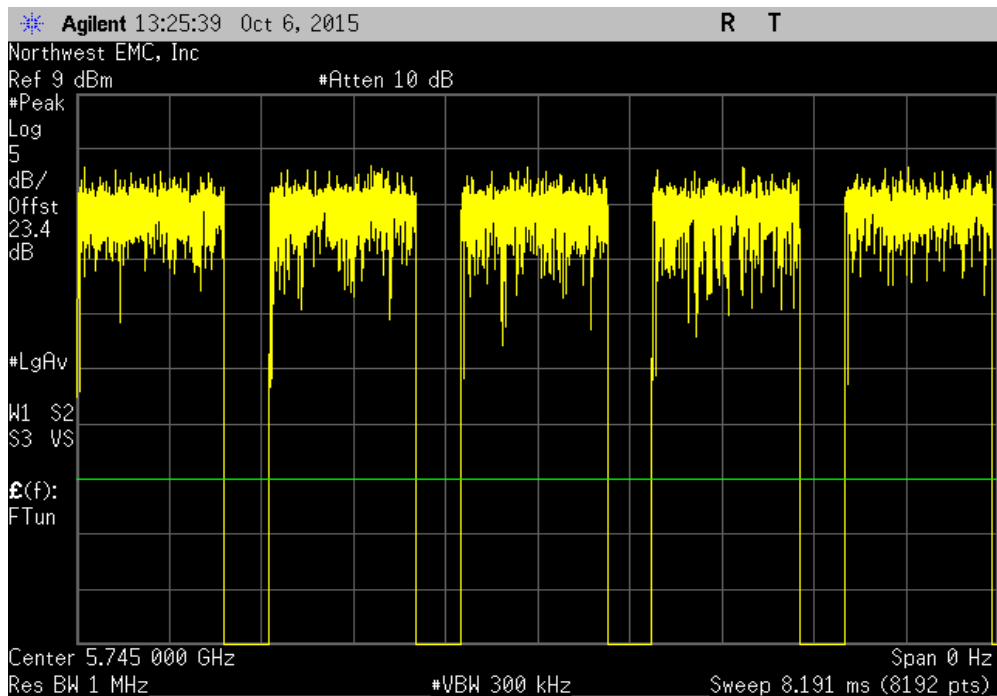


DUTY CYCLE

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	

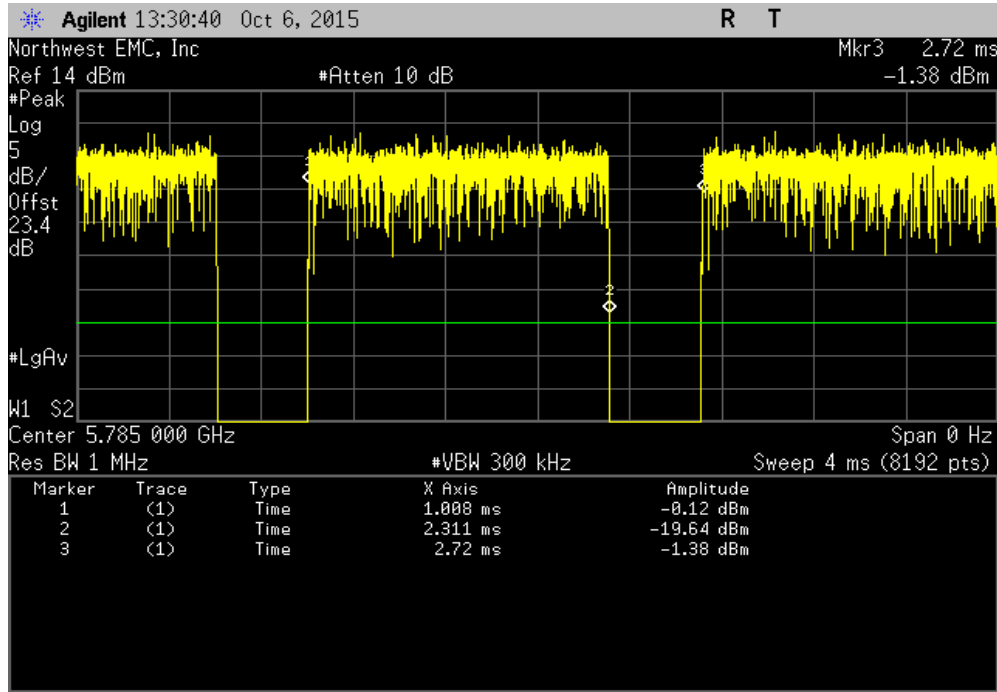


Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

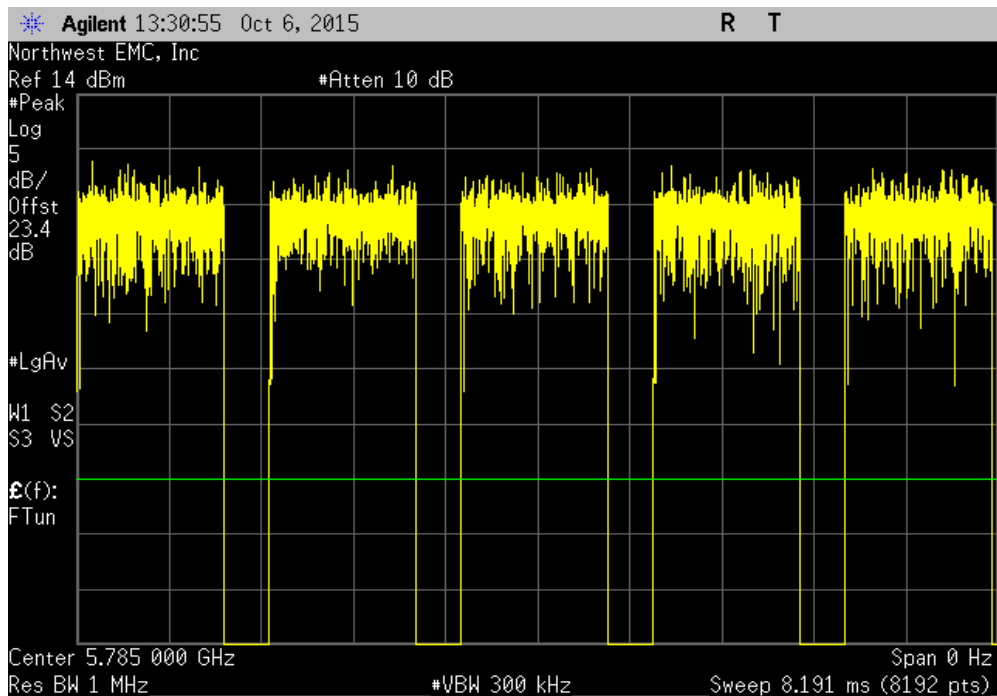


DUTY CYCLE

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	

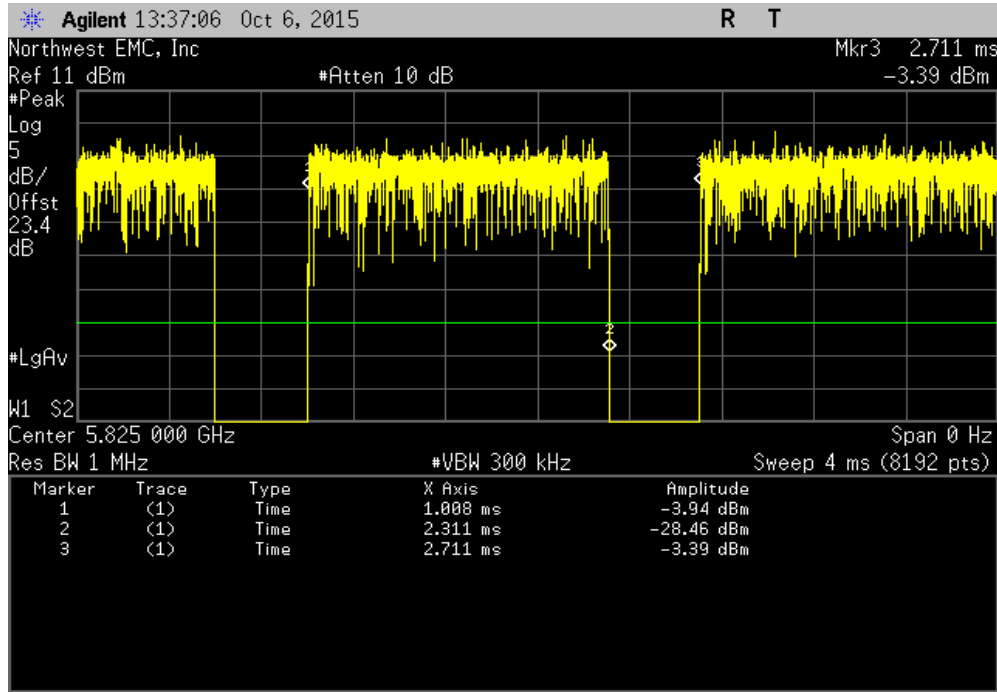


Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

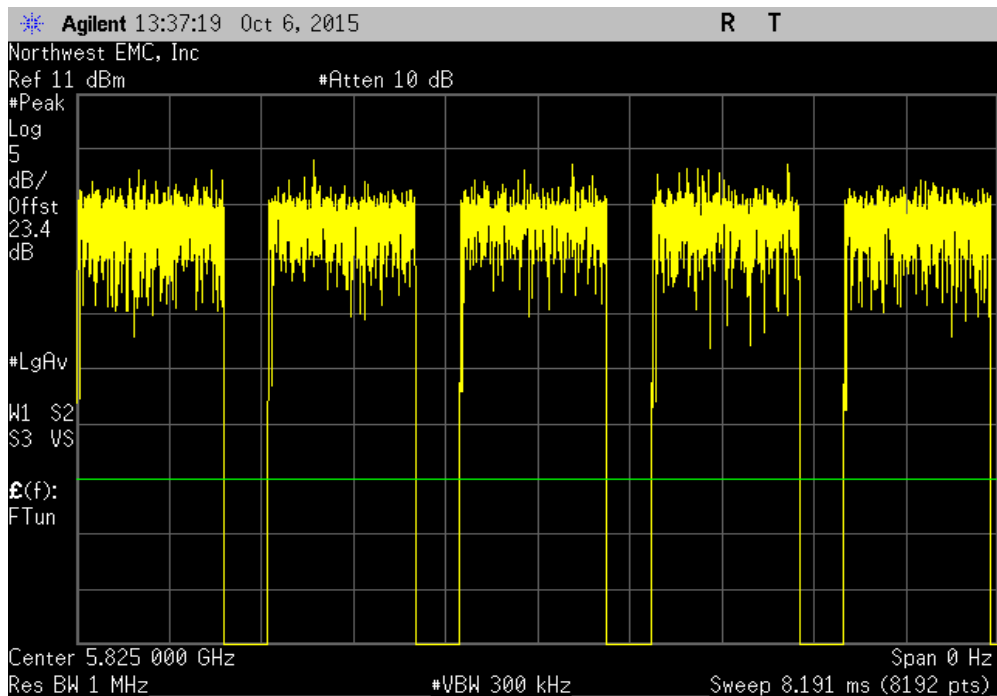


DUTY CYCLE

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	

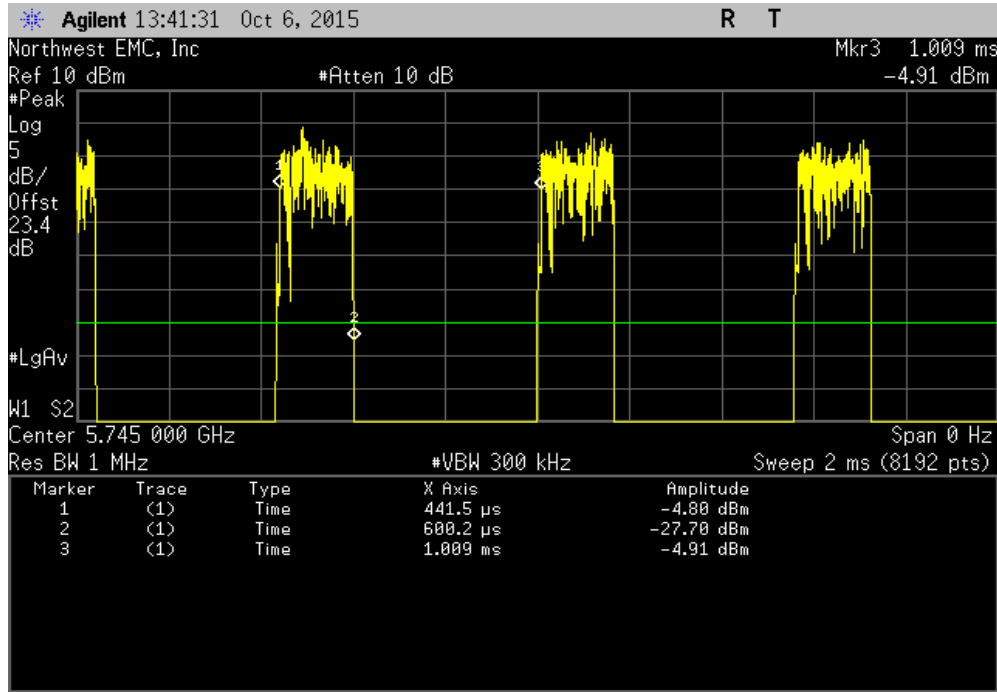


Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

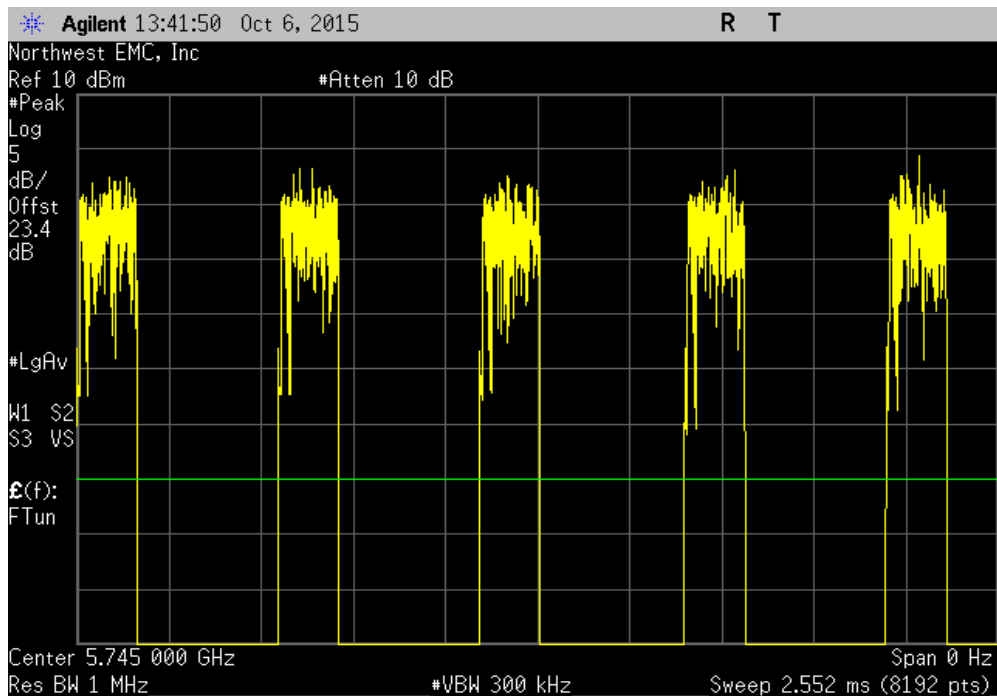


DUTY CYCLE

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	

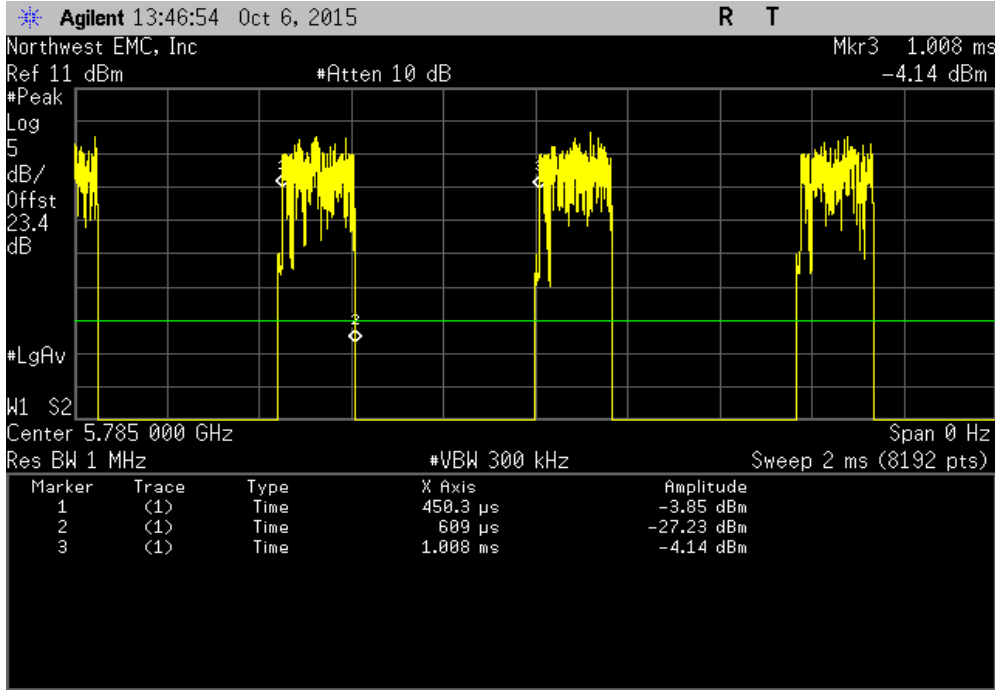


Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

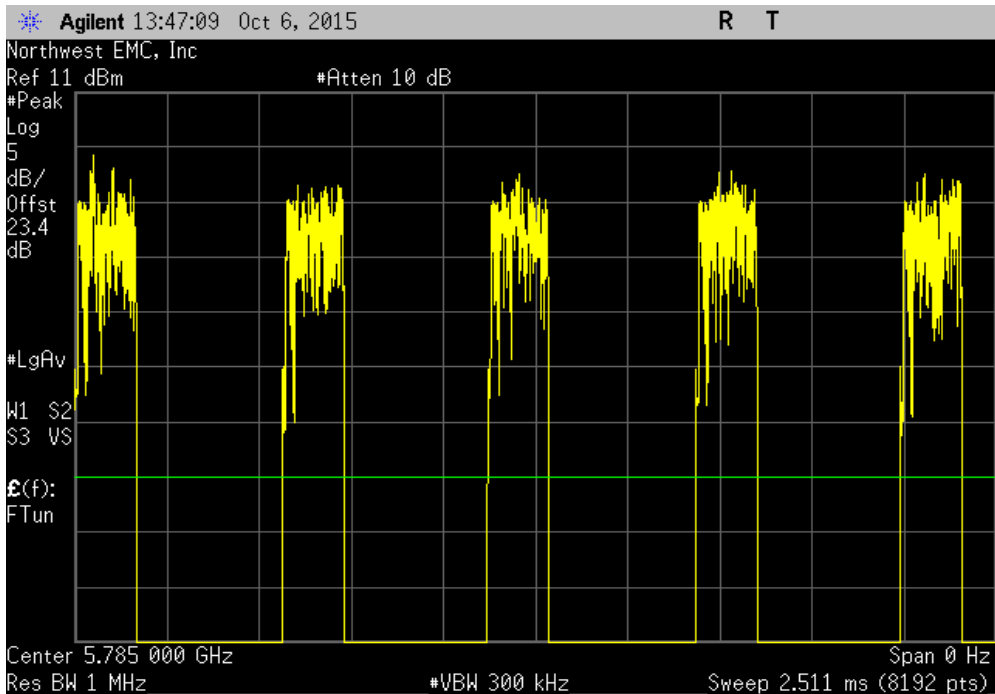


DUTY CYCLE

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	

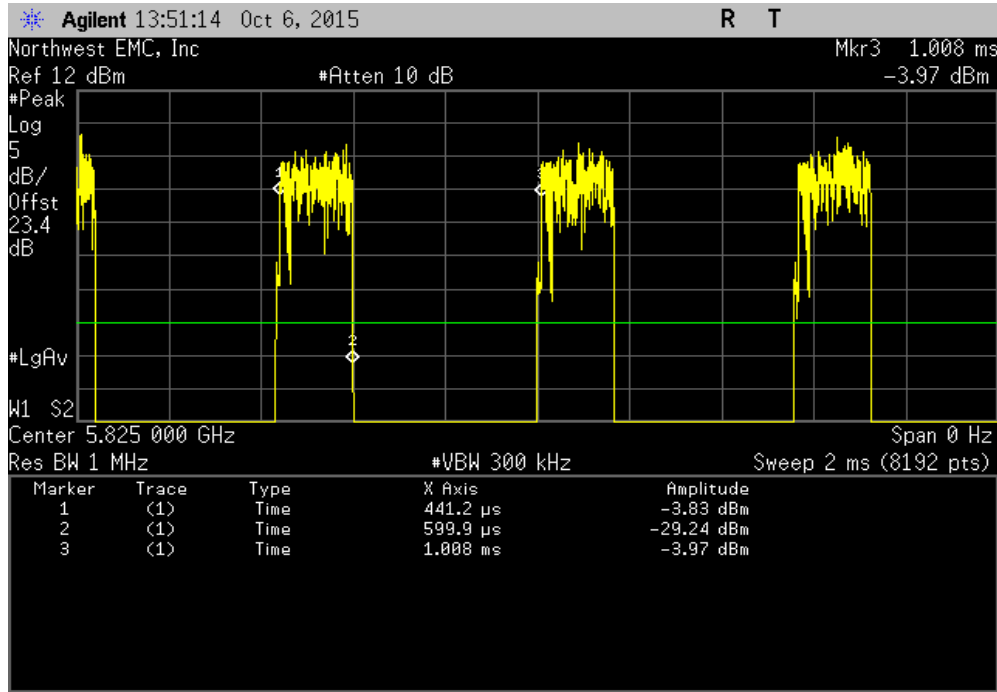


Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

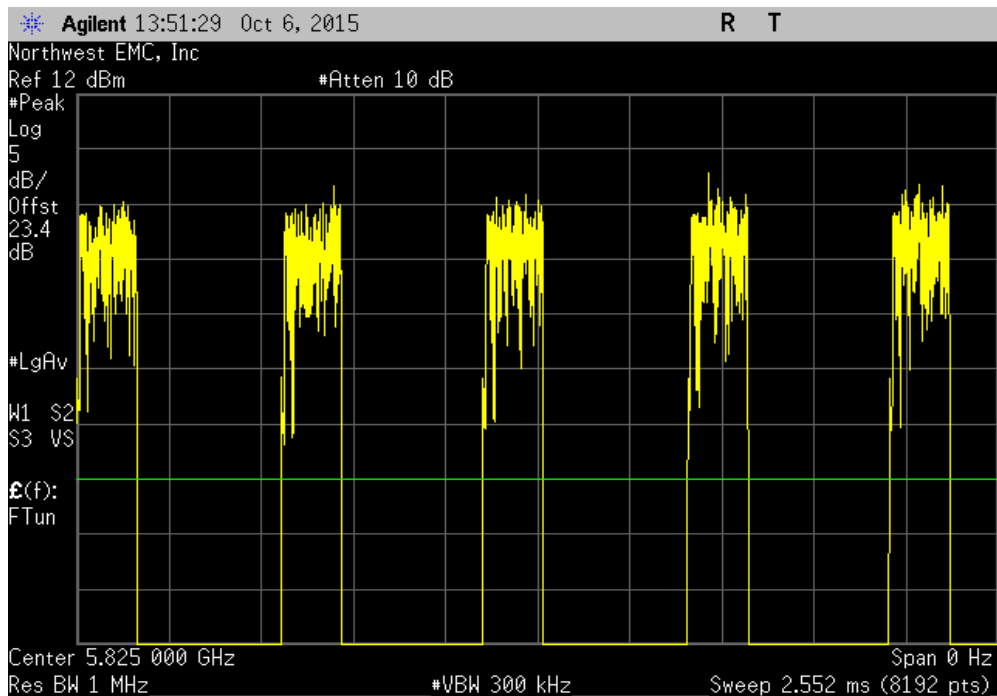


DUTY CYCLE

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	

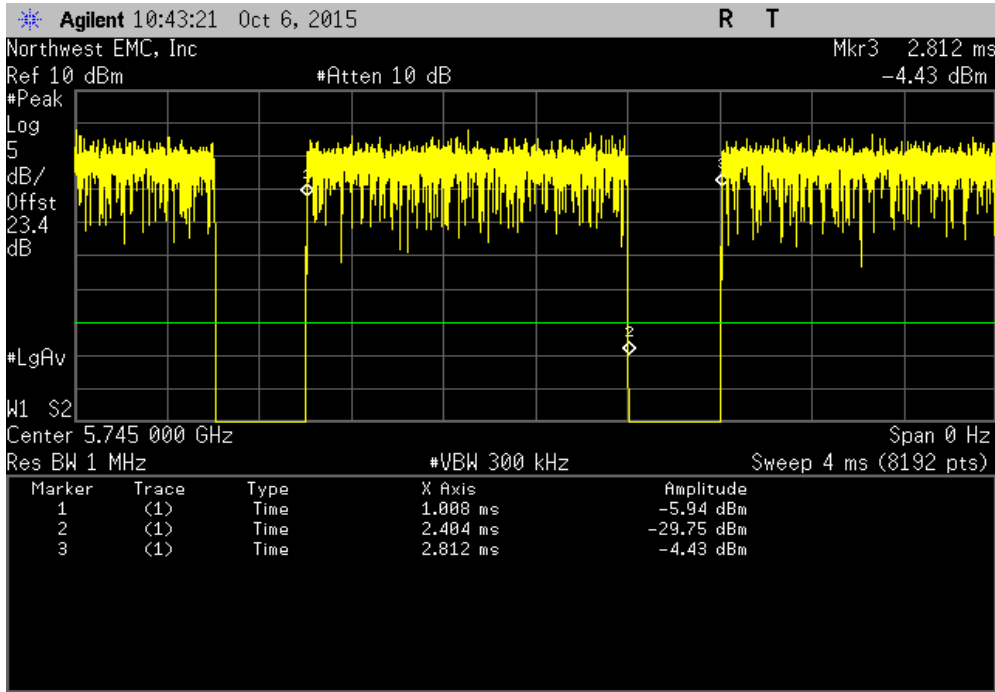


Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

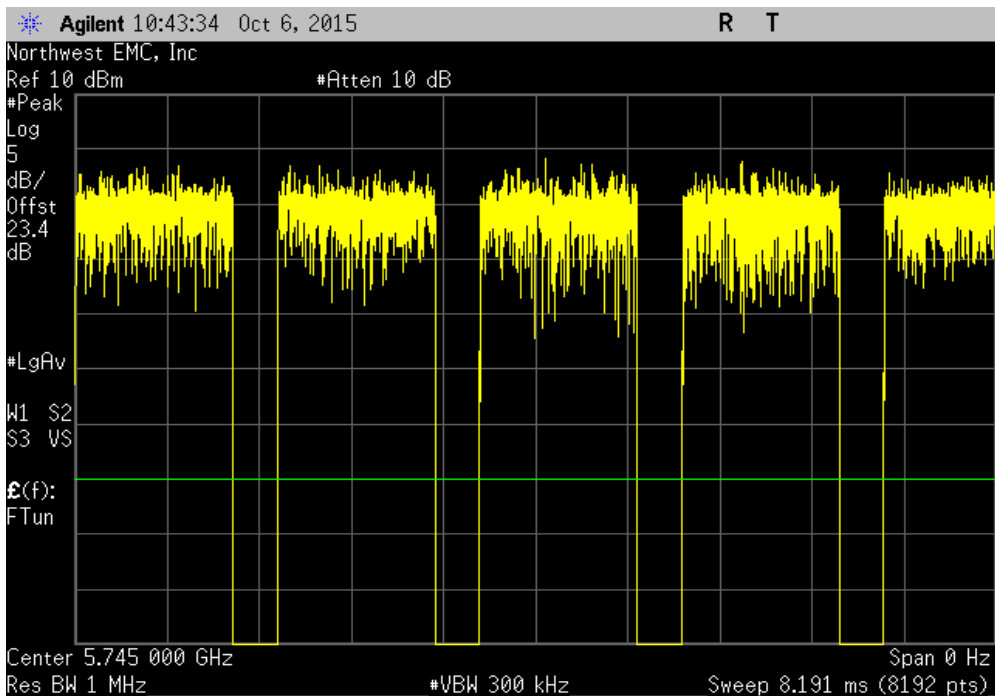


DUTY CYCLE

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	

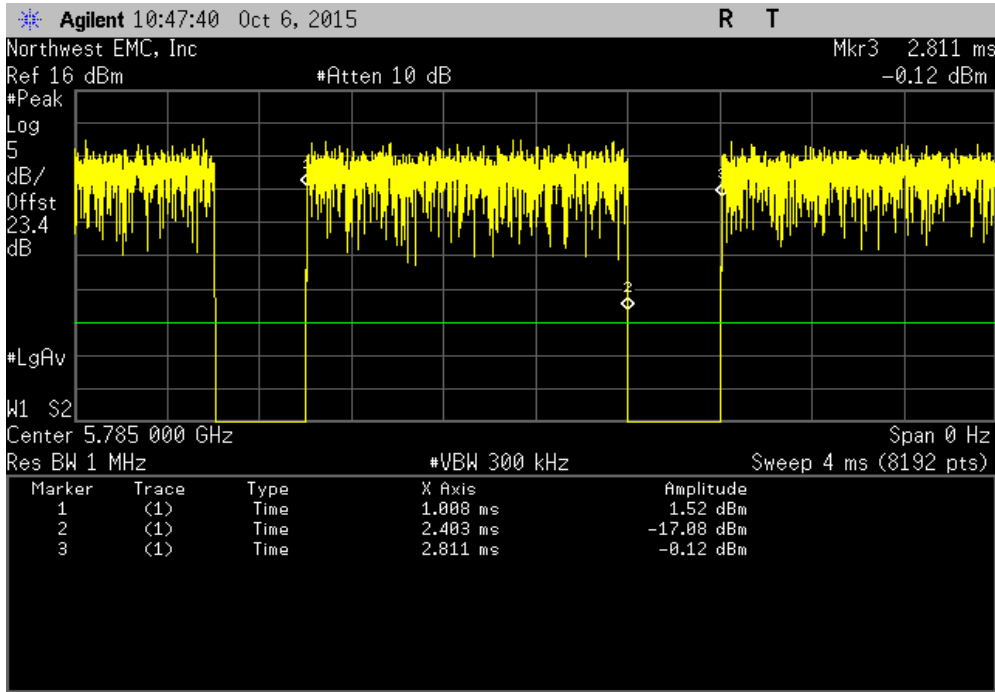


Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

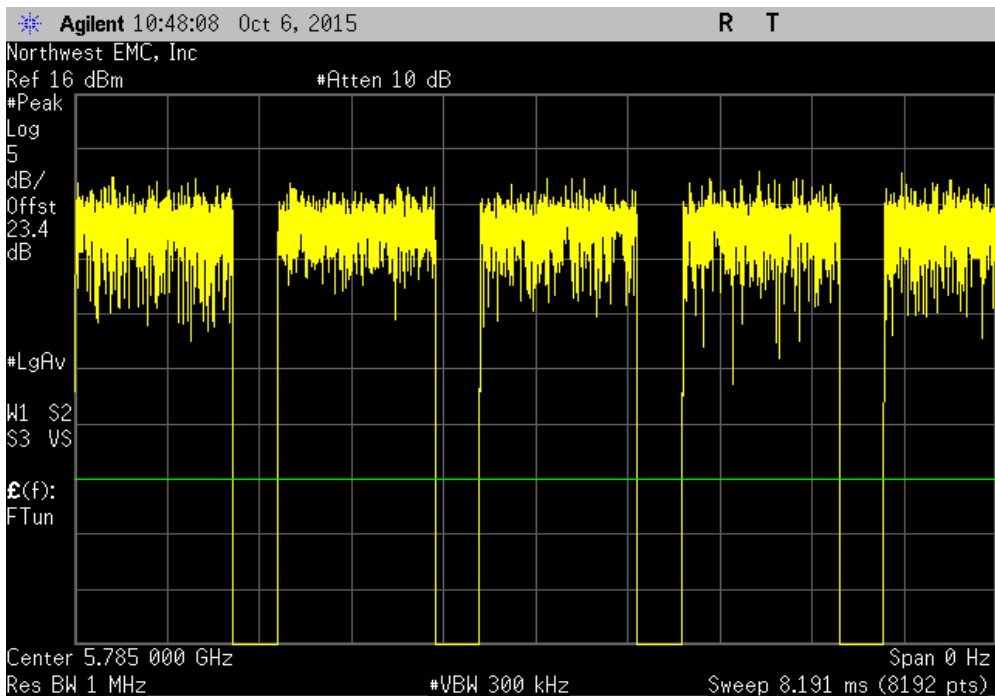


DUTY CYCLE

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	

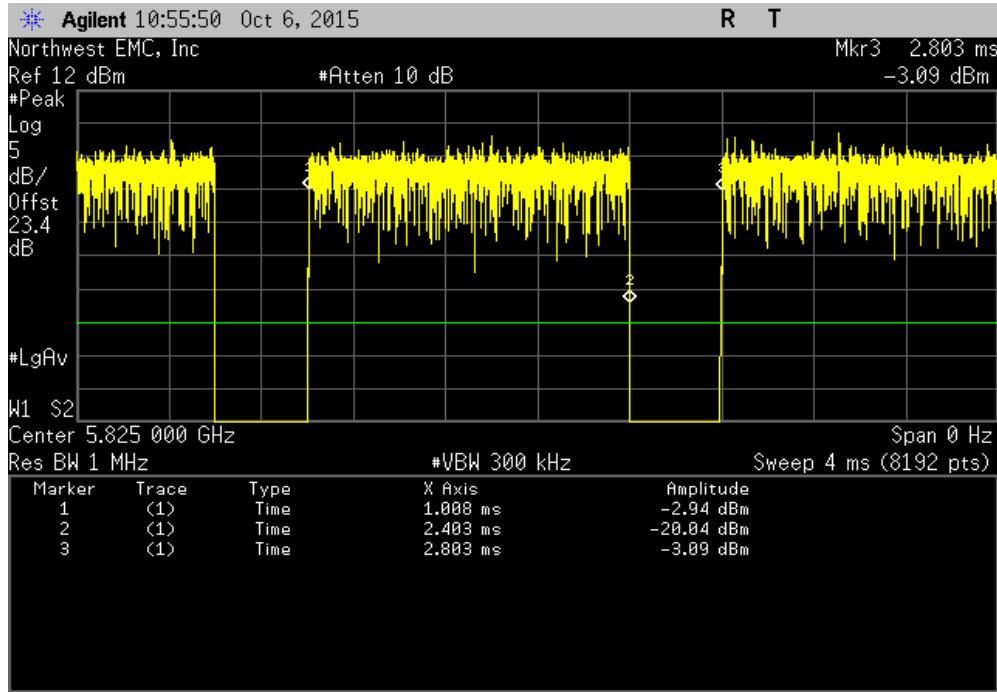


Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

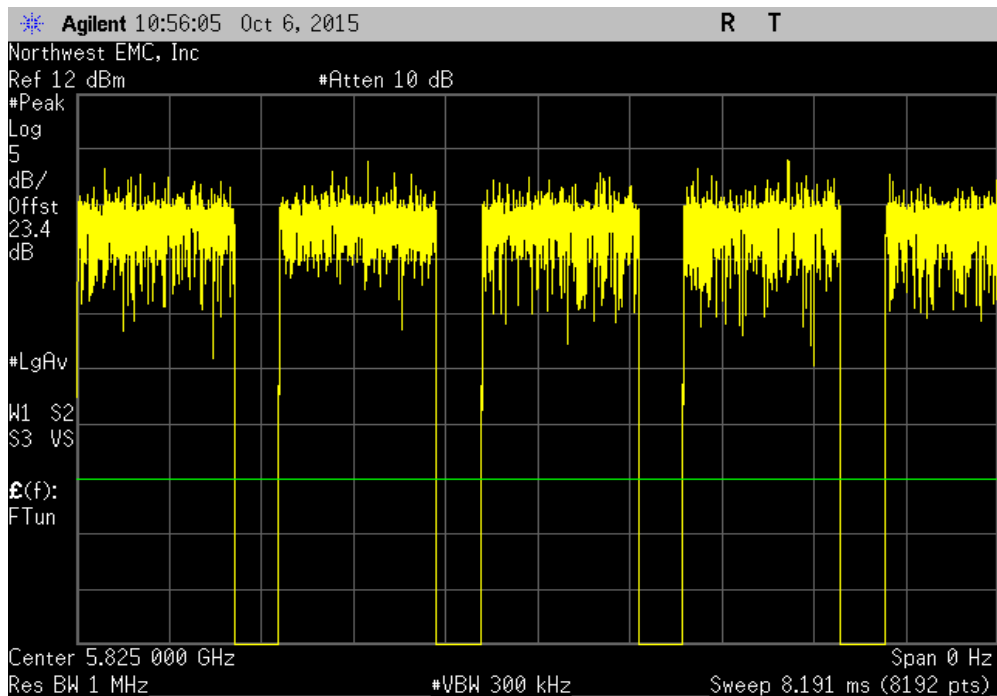


DUTY CYCLE

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	

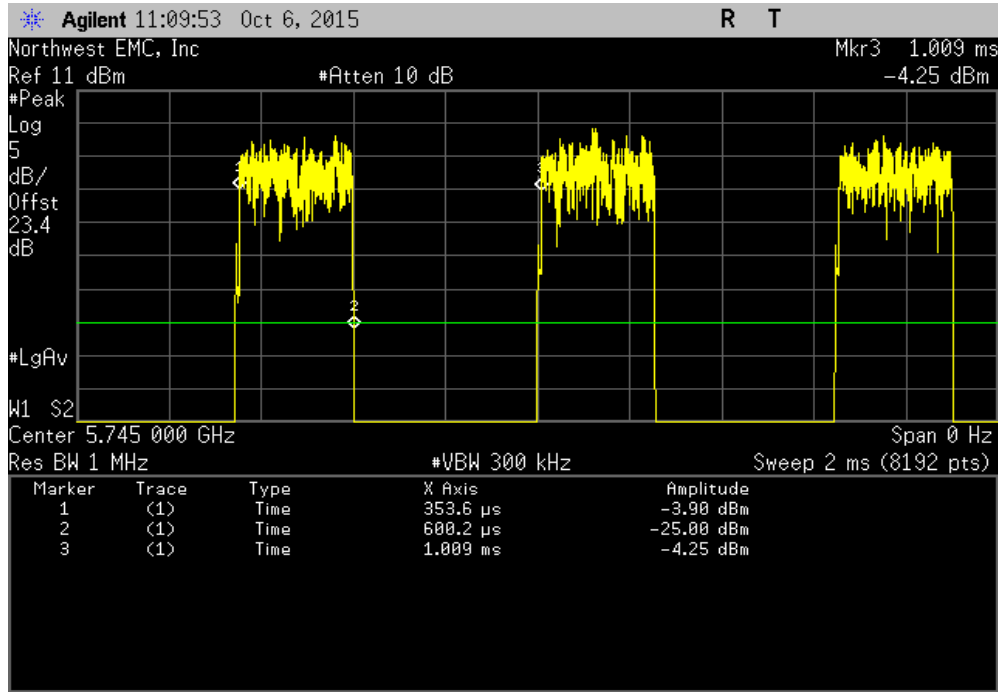


Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

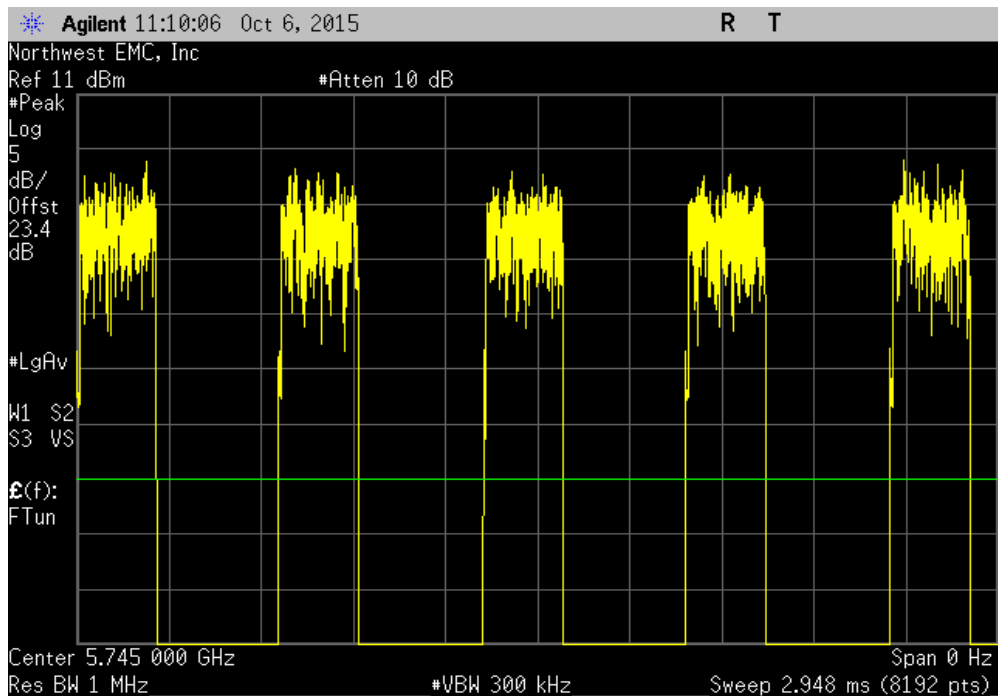


DUTY CYCLE

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	

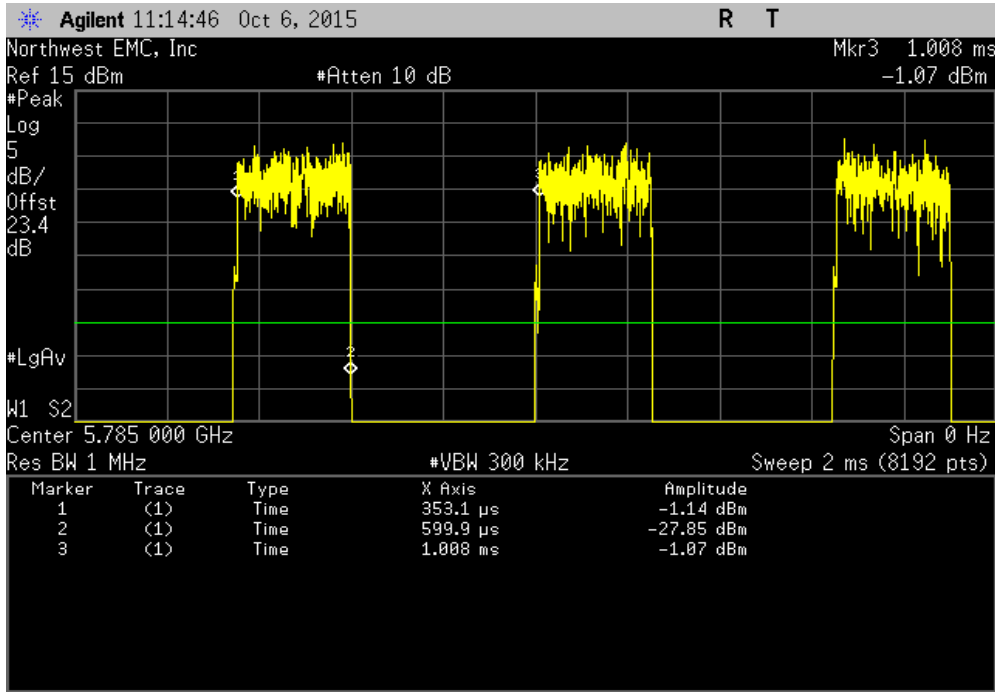


Ant 2, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

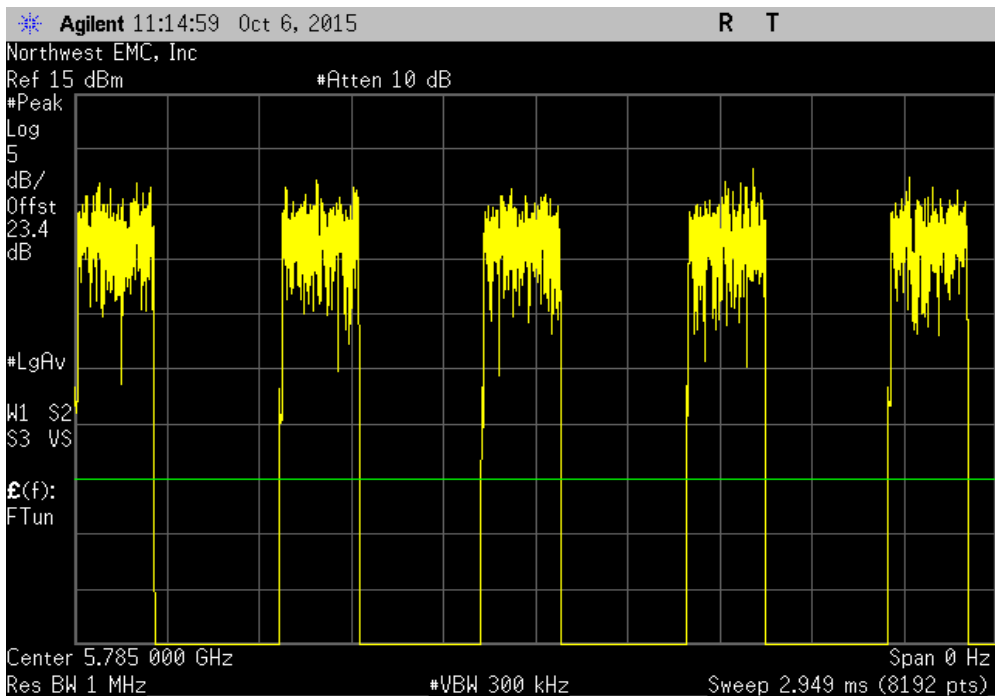


DUTY CYCLE

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	

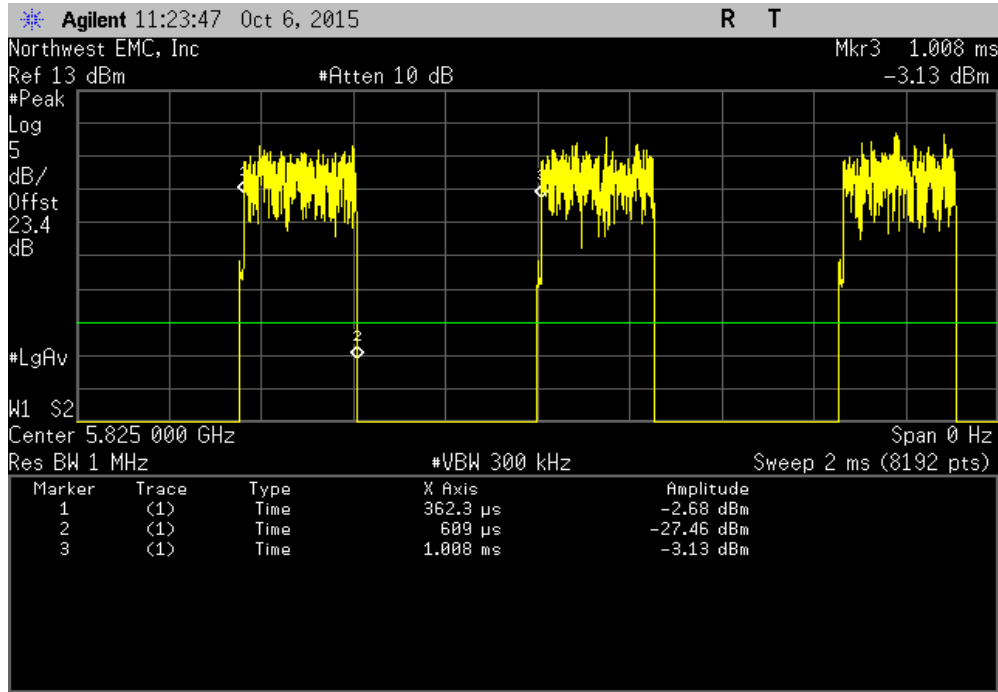


Ant 2, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

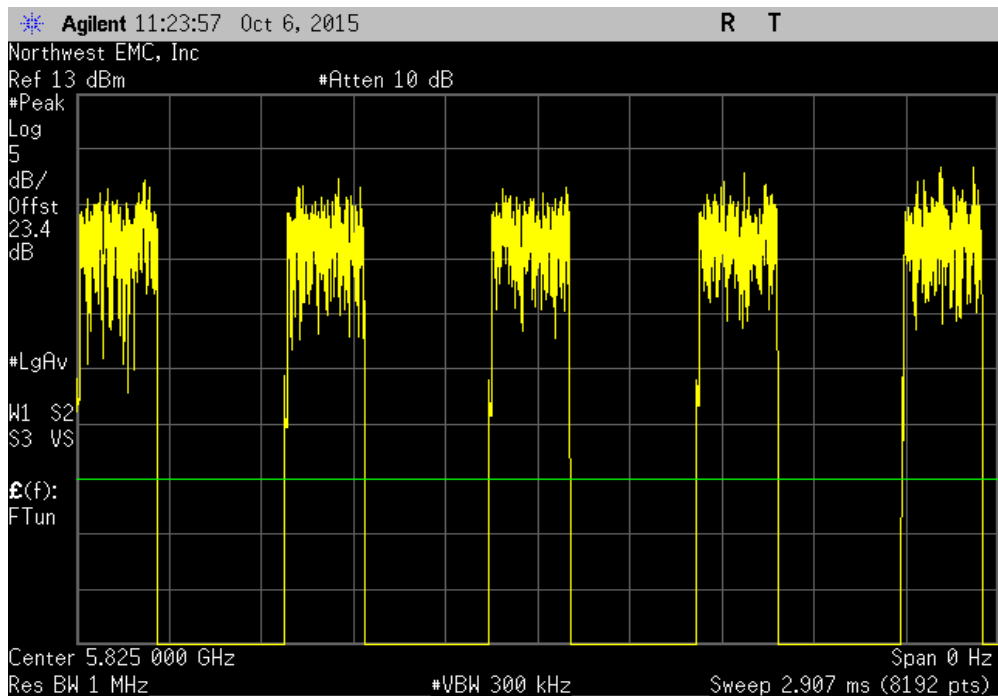


DUTY CYCLE

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	

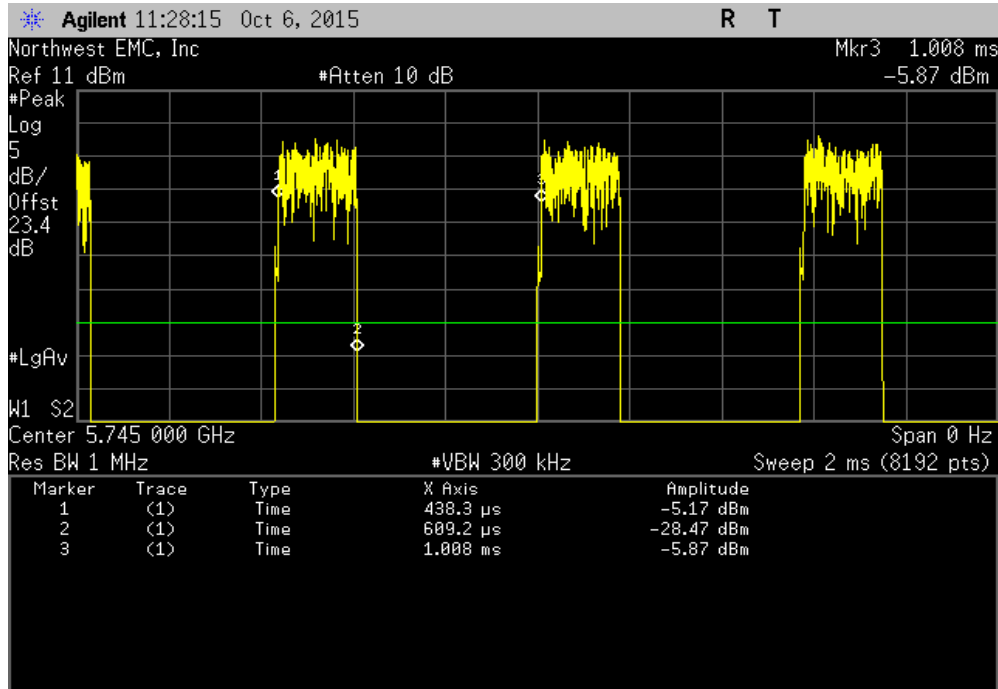


Ant 2, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

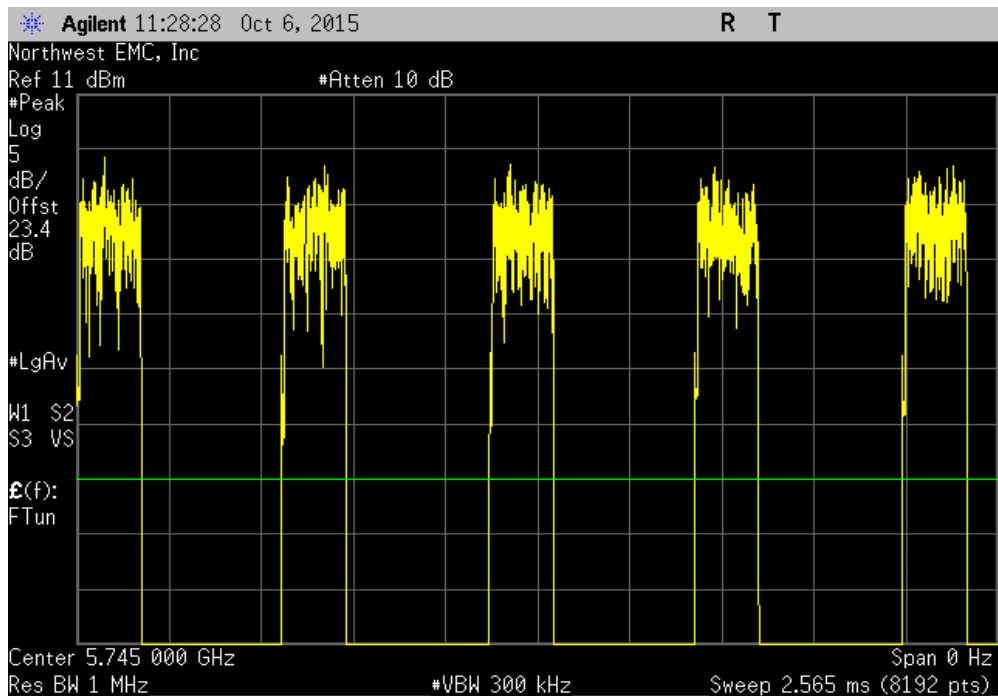


DUTY CYCLE

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	

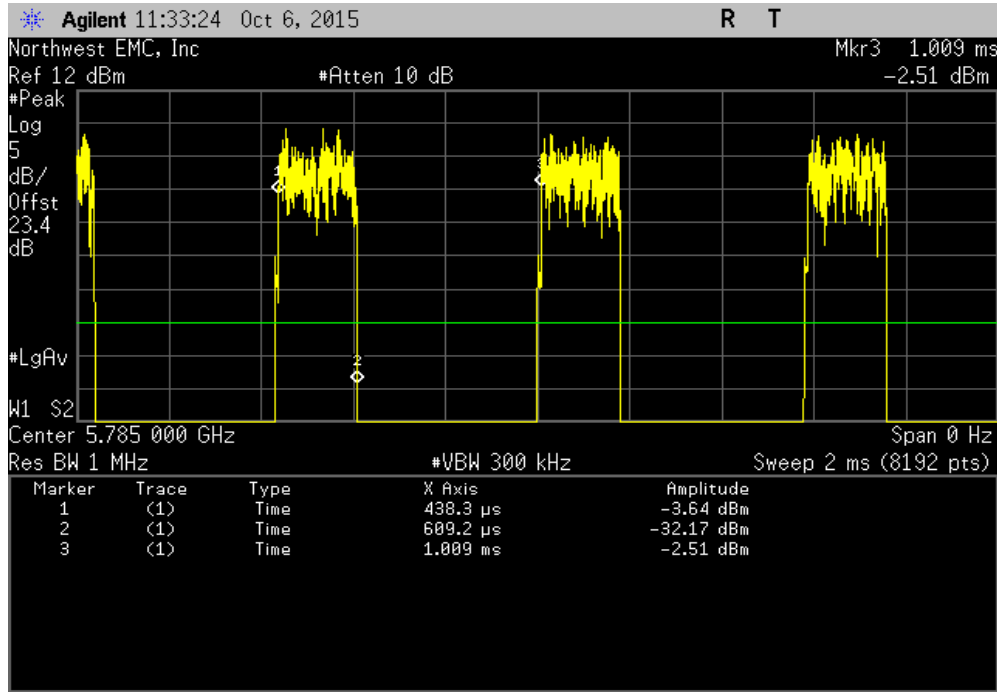


Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

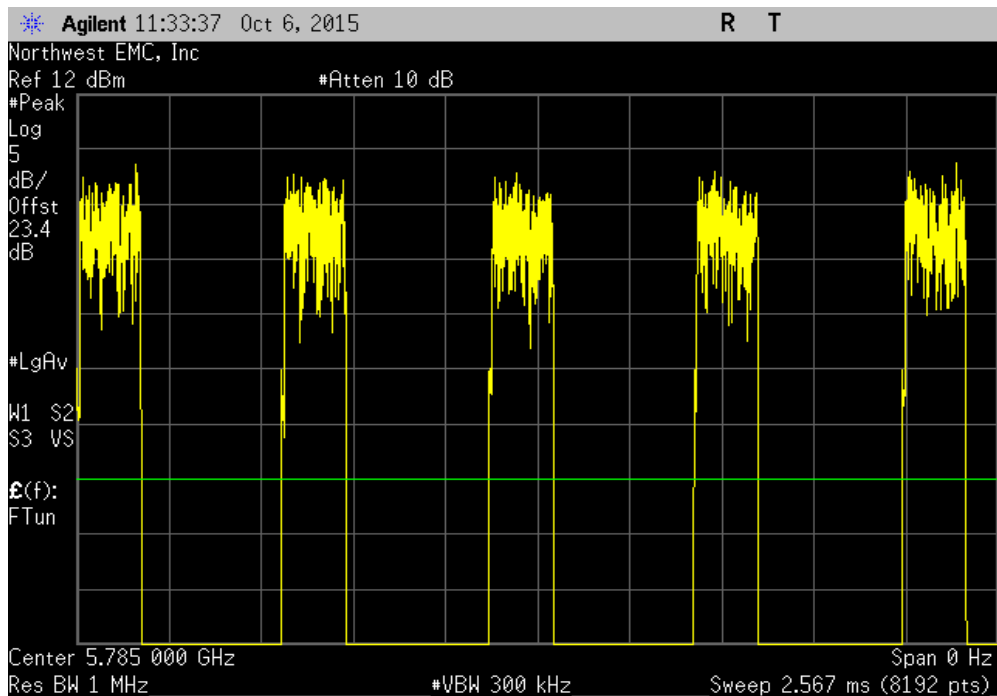


DUTY CYCLE

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	

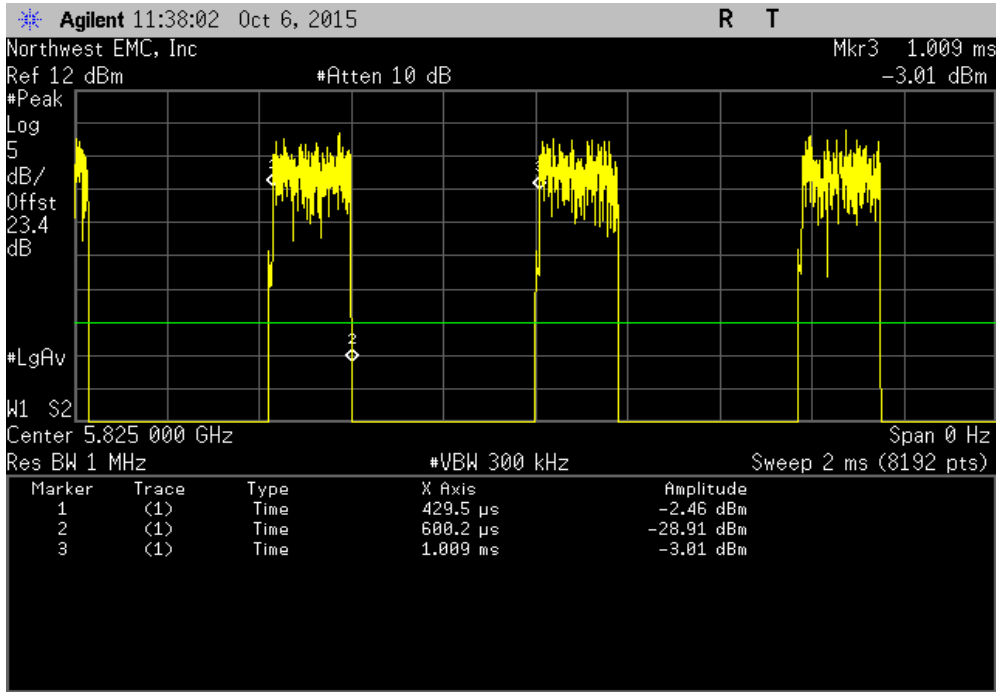


Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

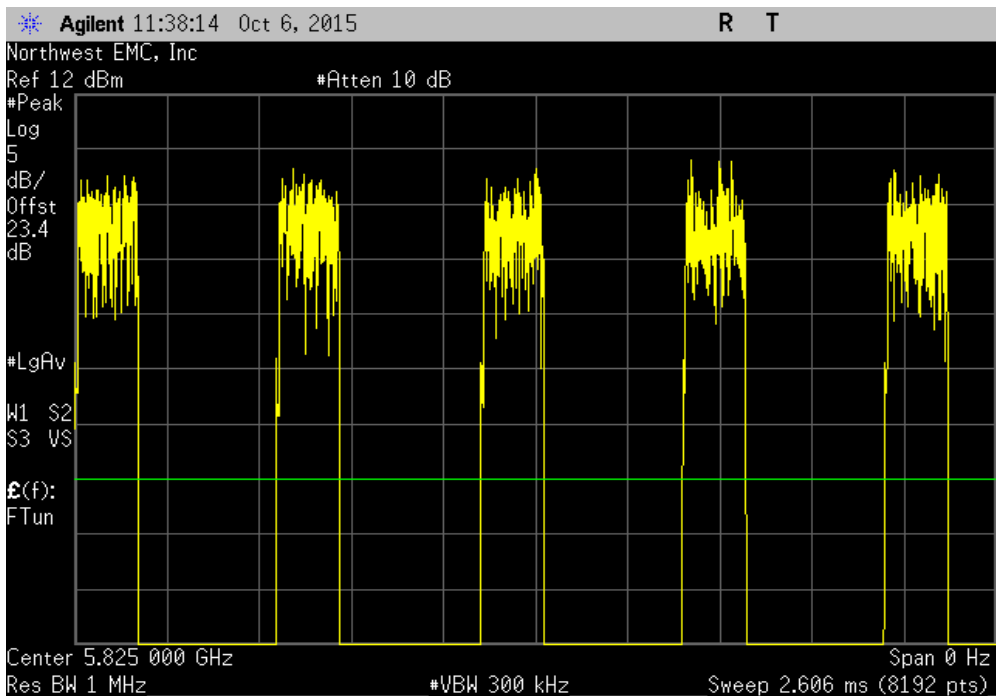


DUTY CYCLE

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	

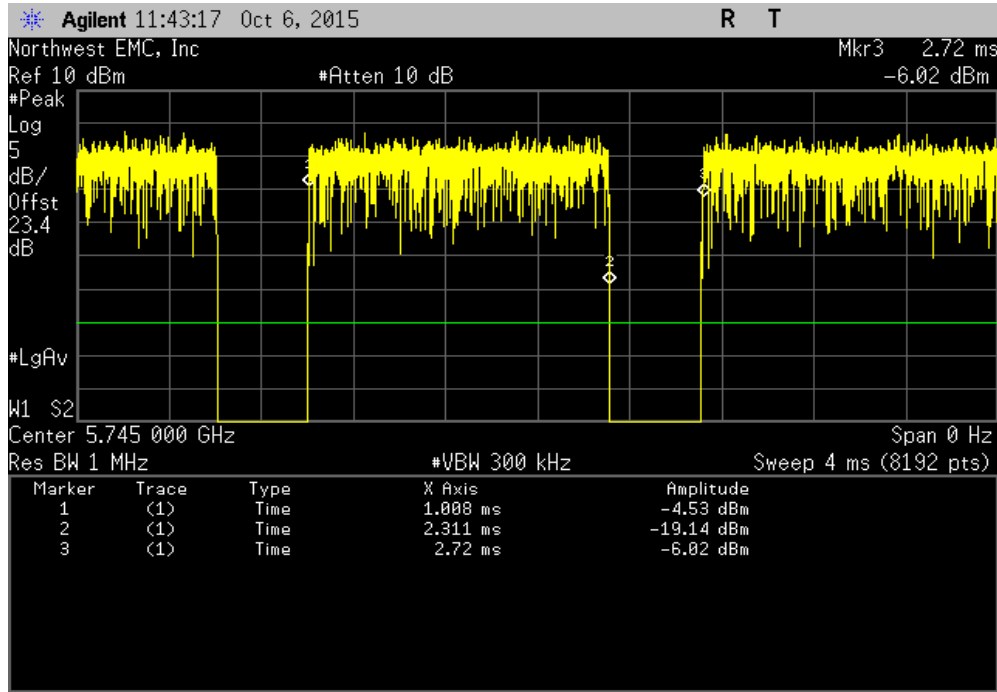


Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

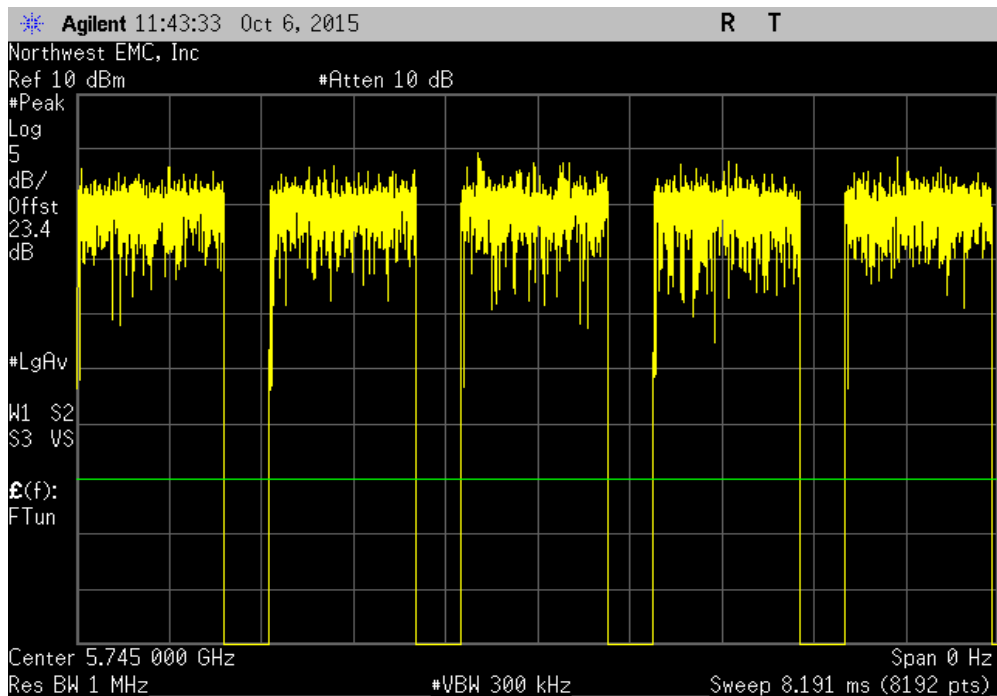


DUTY CYCLE

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	

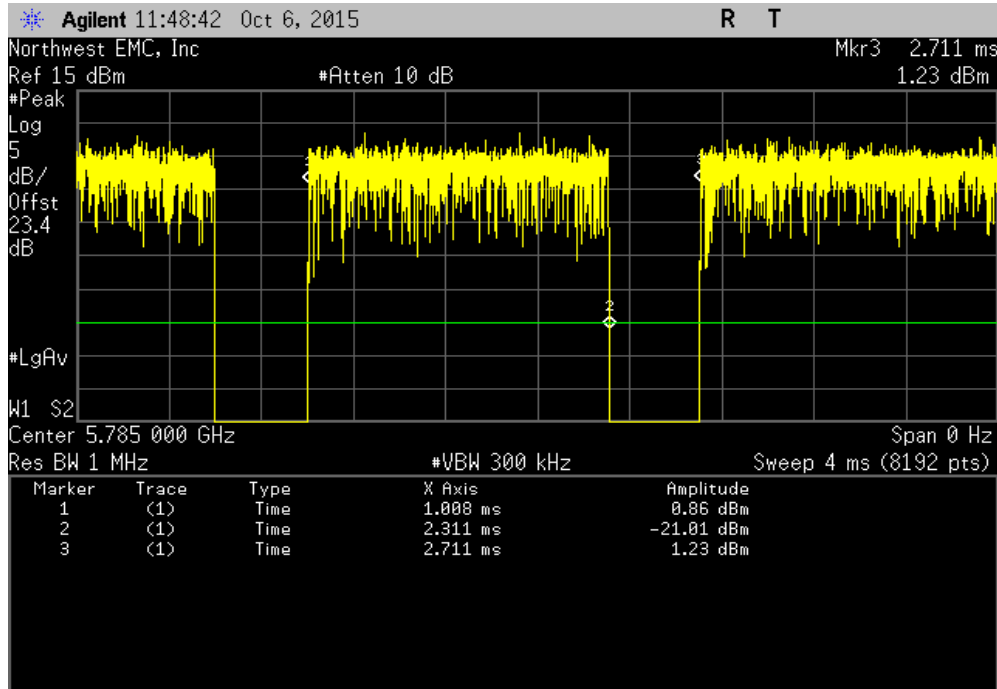


Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

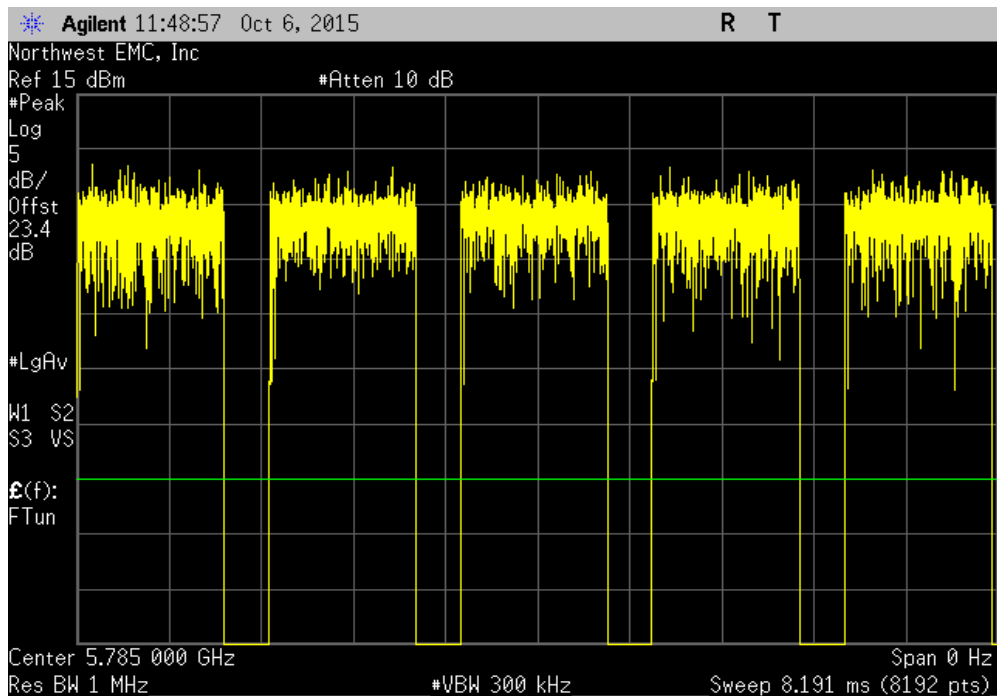


DUTY CYCLE

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	

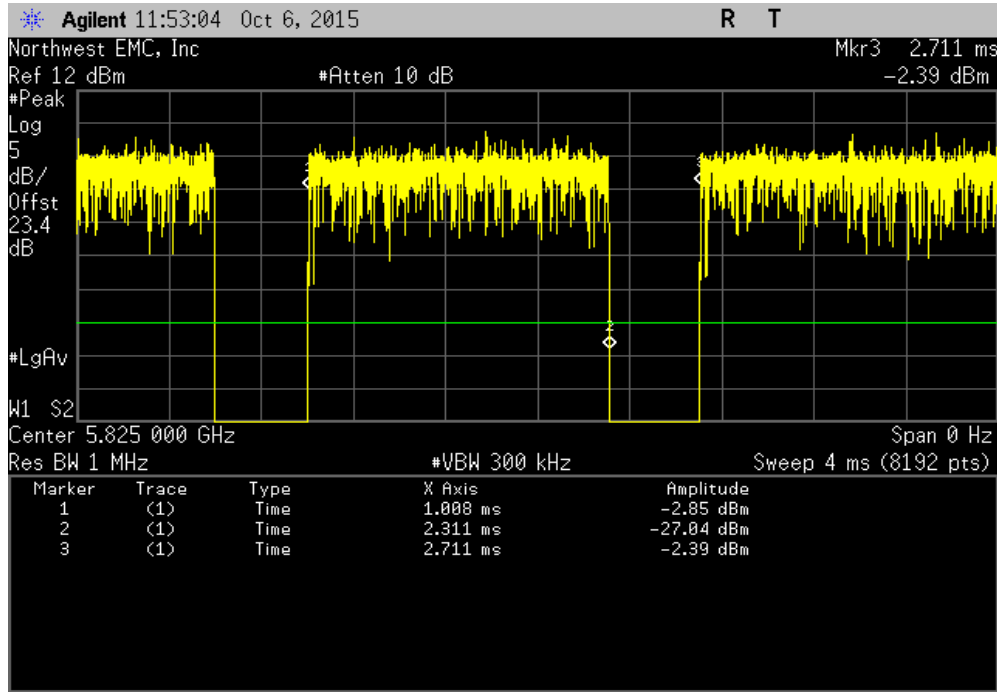


Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

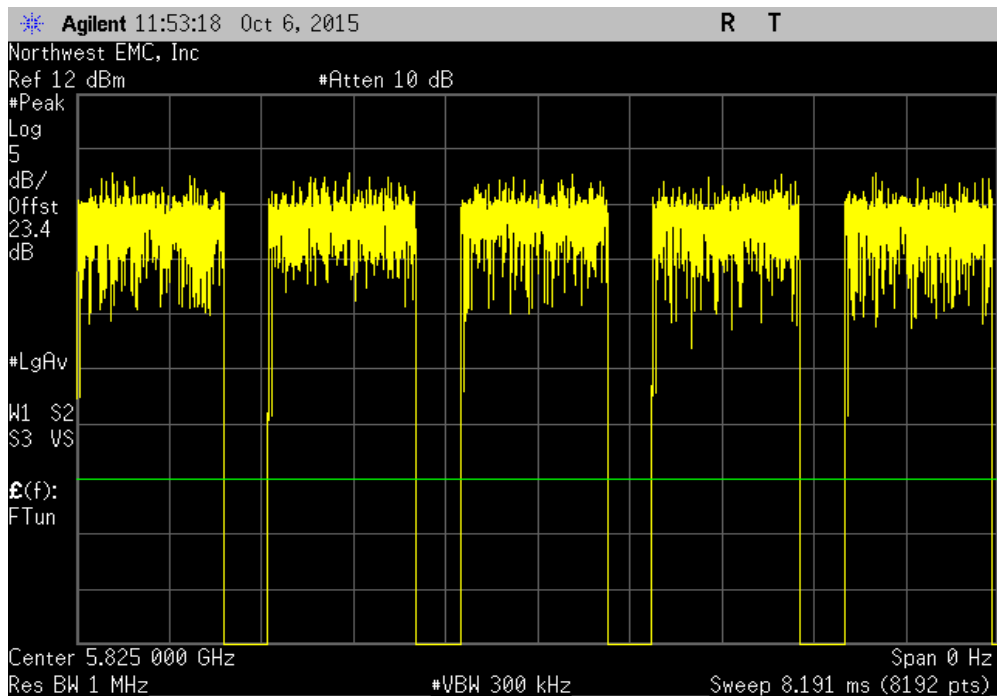


DUTY CYCLE

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	

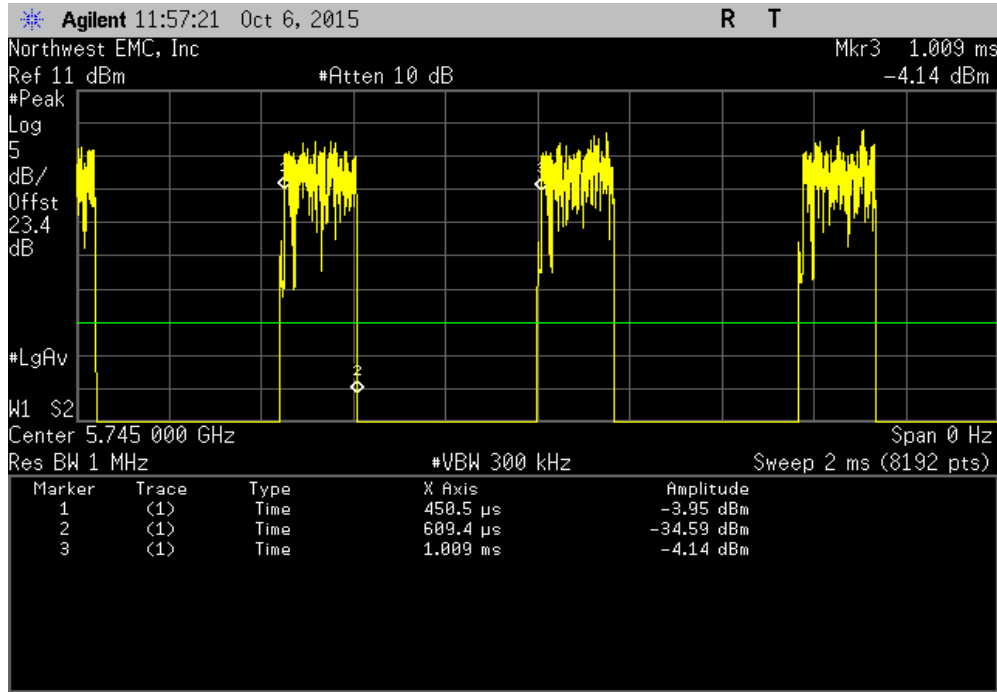


Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

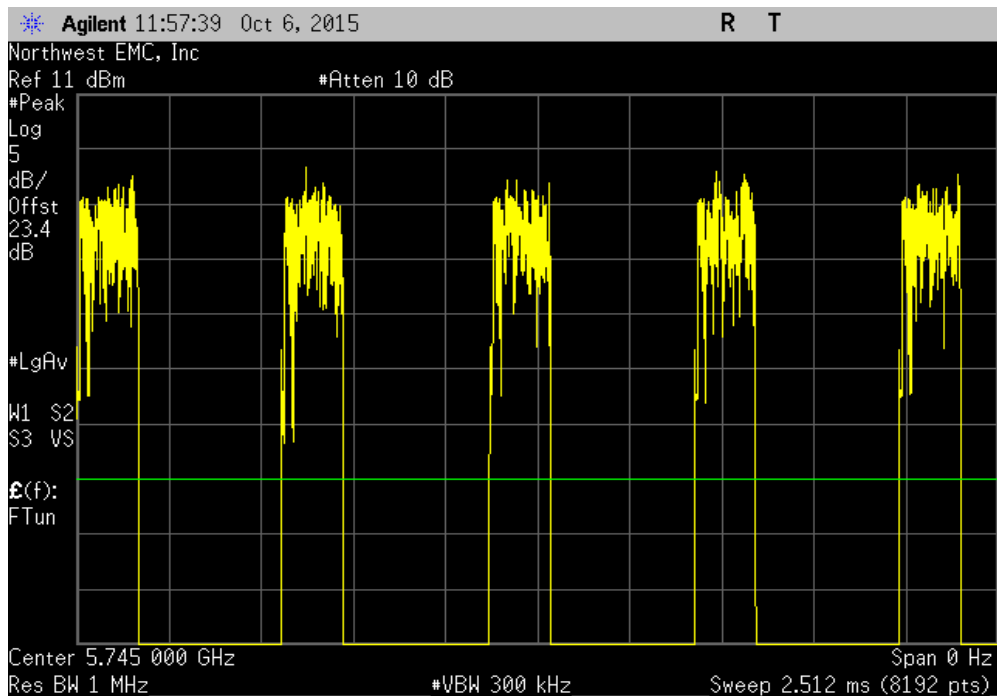


DUTY CYCLE

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	

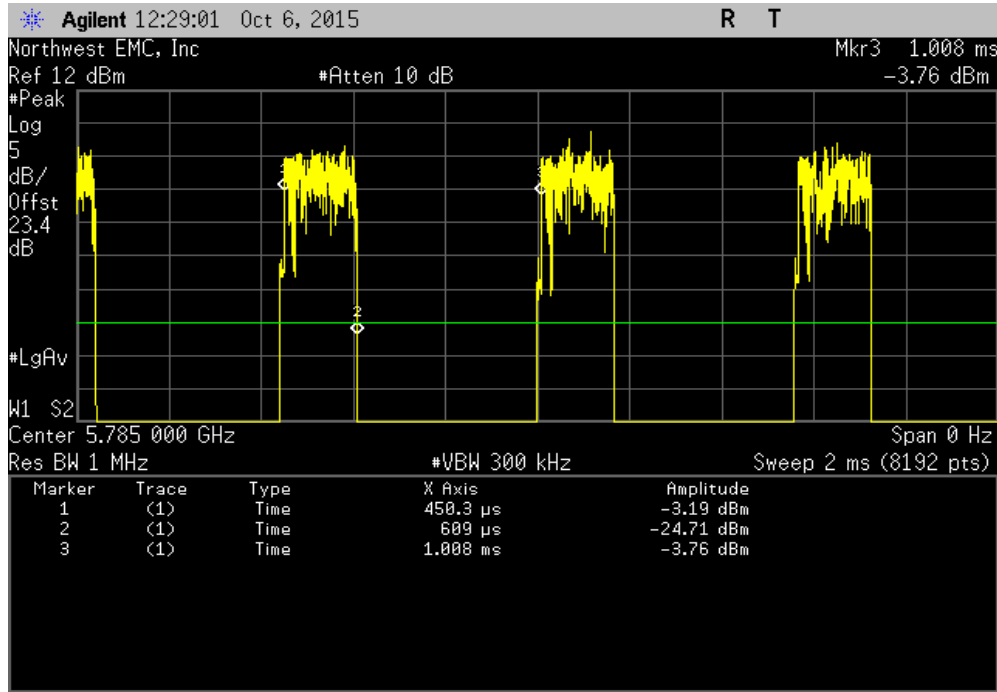


Ant 2, 802.11(n) MCS7, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

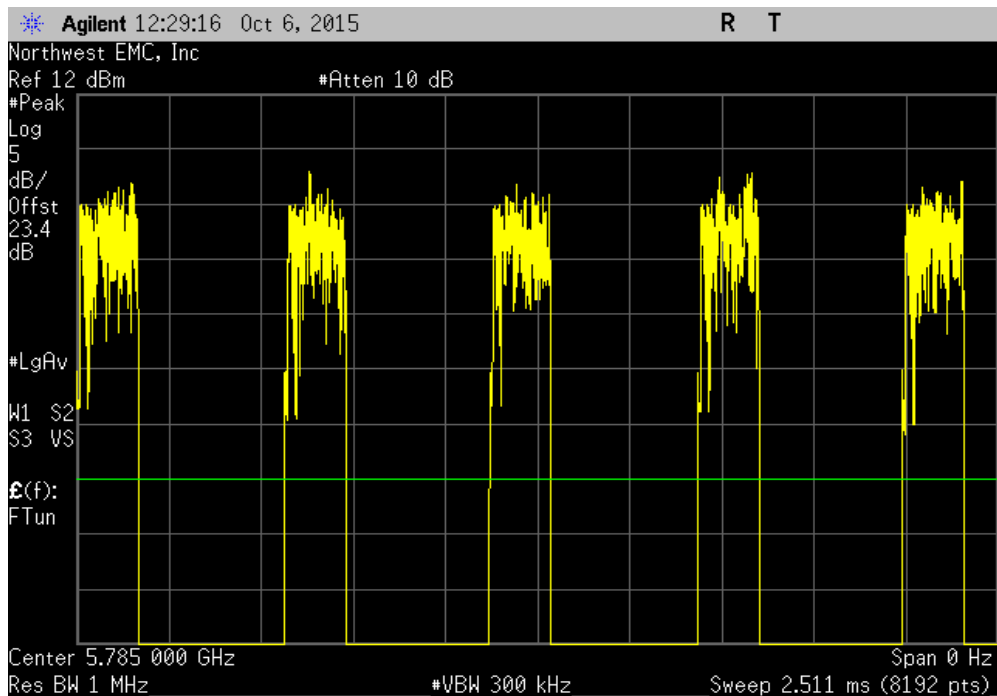


DUTY CYCLE

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	

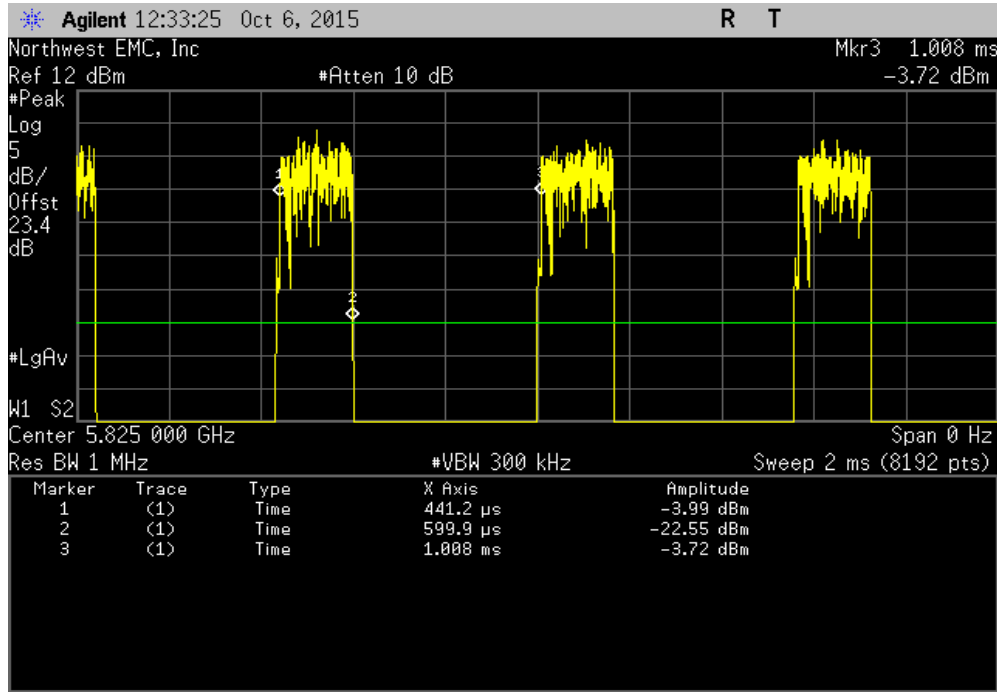


Ant 2, 802.11(n) MCS7, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

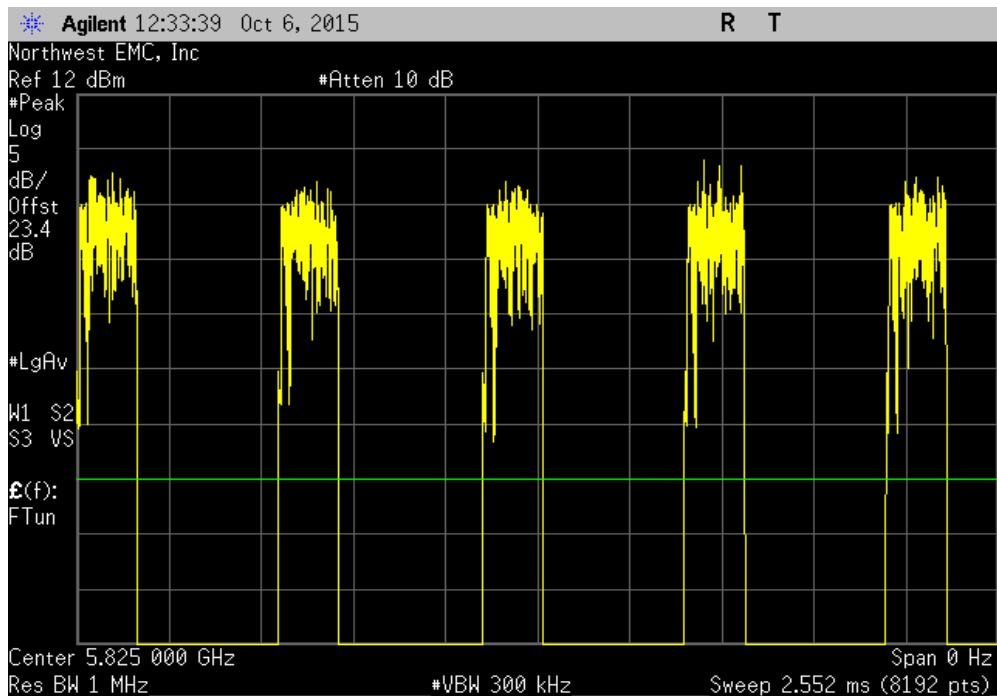


DUTY CYCLE

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



XMit 2015.01.14

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 $10 \cdot \text{LOG}(1/D)$ where D is the duty cycle.

MAXIMUM CONDUCTED OUTPUT POWER



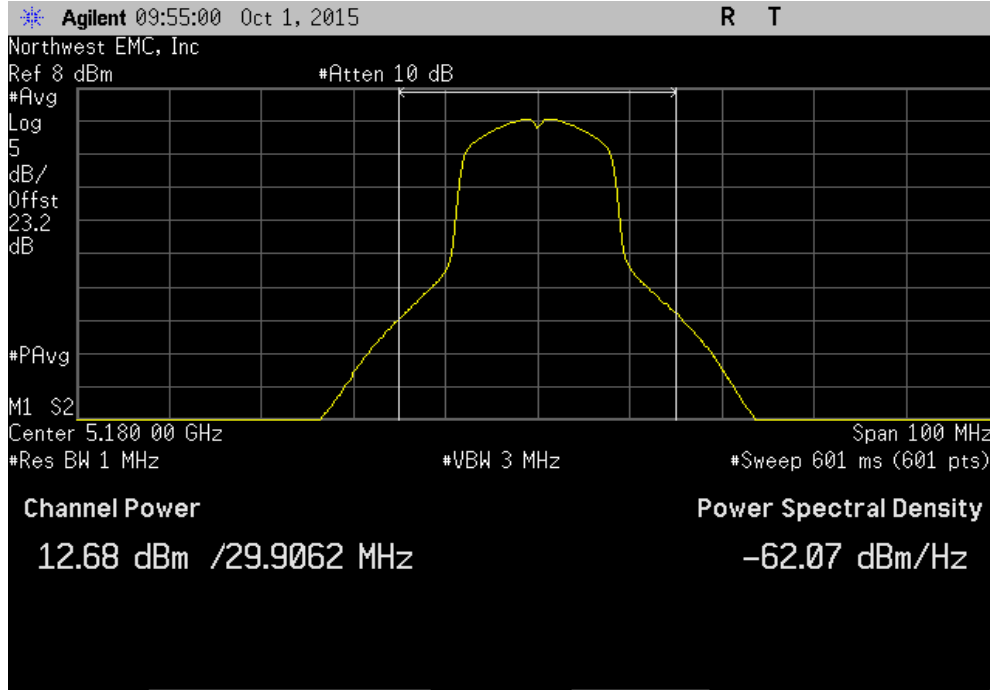
XMtr 2015.01.14

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		Test Method				
FCC 15.407:2015		ANSI C63.10:2013				
COMMENTS						
Power settings at Maximum.						
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #		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	15.2	24	Pass
	Mid Channel 120, 5600 MHz	14.087	1.1	12.2	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

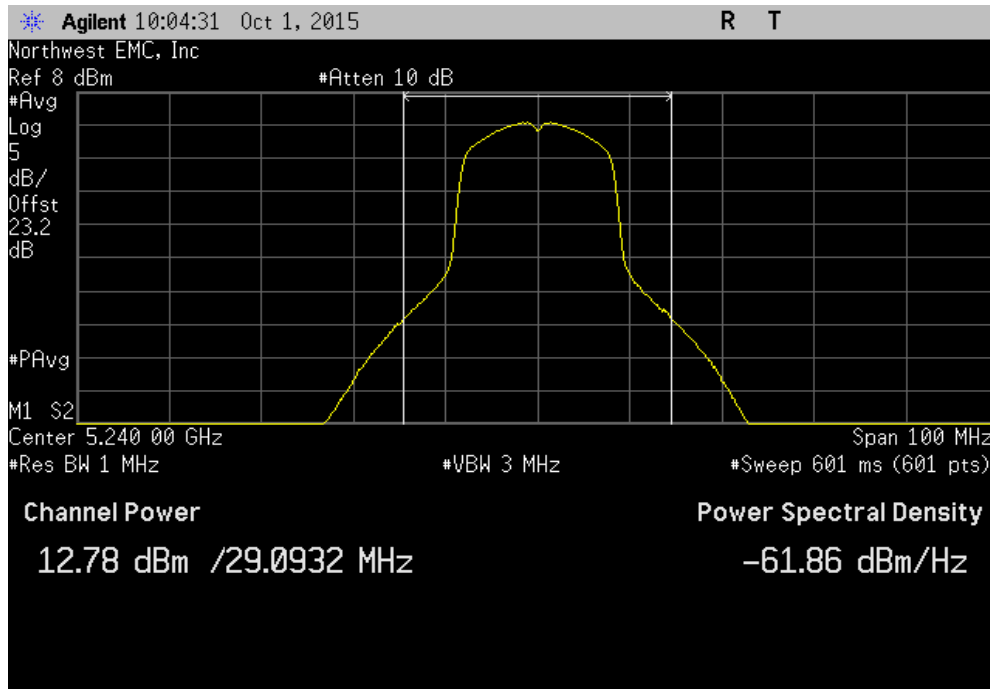
5250 - 5350 MHz Band						
	Low Channel 52, 5260 MHz	7.622	4.2	11.8	24	Pass
	High Channel 64, 5320 MHz	7.652	4.2	11.8	24	Pass
5470 - 5725 MHz Band						
	Low Channel 100, 5500 MHz	9.538	4.2	13.8	24	Pass
	Mid Channel 120, 5600 MHz	10.056	4.2	14.2	24	Pass
	High Channel 140, 5700 MHz	6.453	4.2	10.6	24	Pass
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 Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
12.684	1.1	13.8	24	Pass	

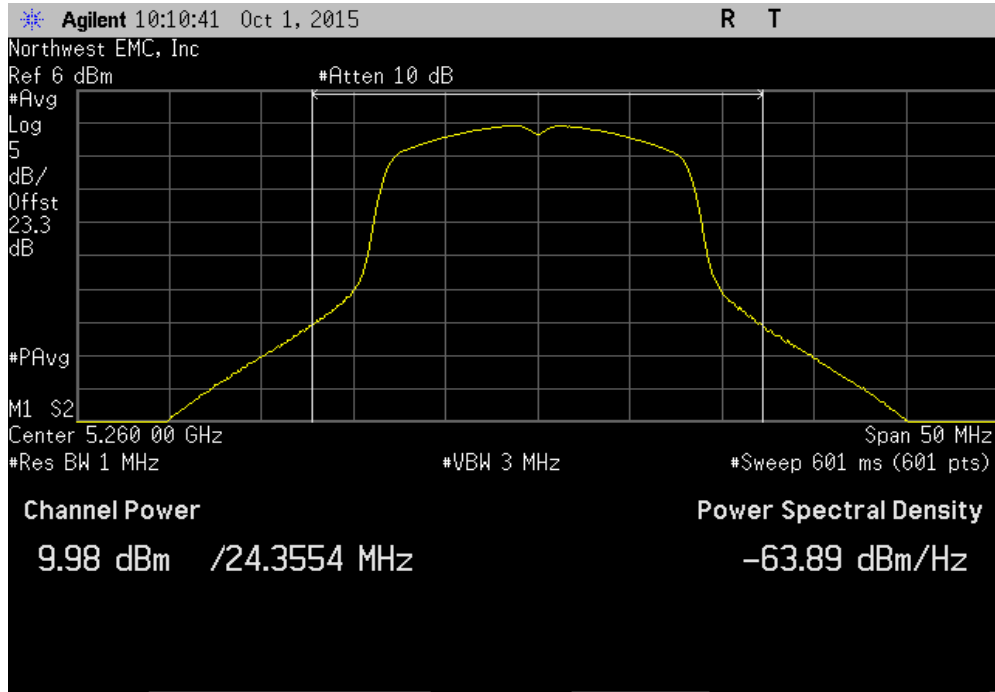


Ant 1, 802.11(a) 6 Mbps, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
12.775	1.1	13.9	24	Pass	

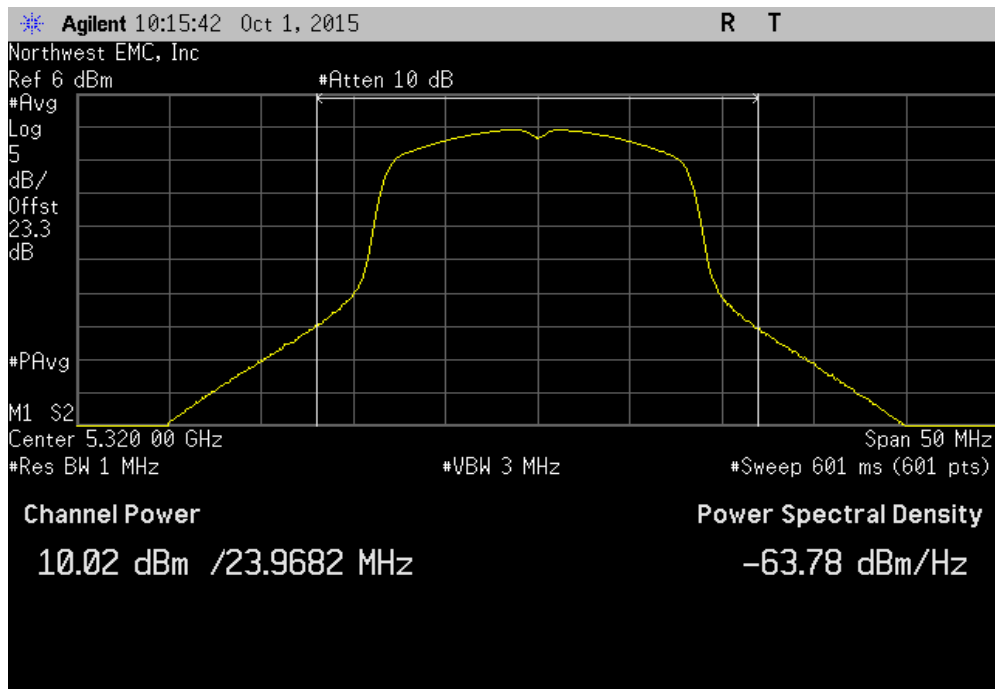


MAXIMUM CONDUCTED OUTPUT POWER

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	

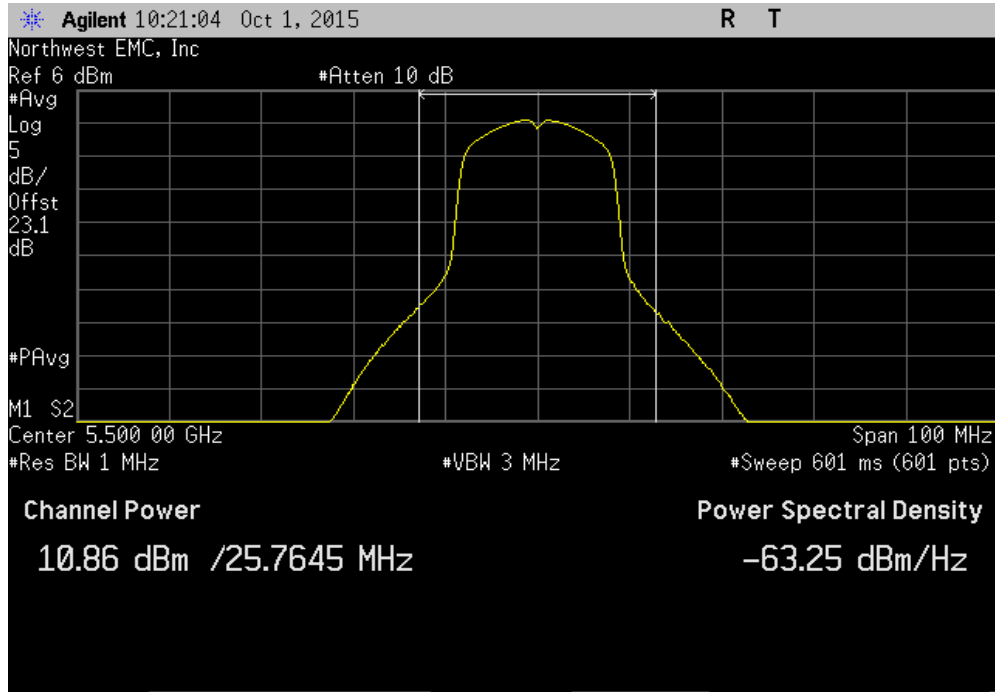


Ant 1, 802.11(a) 6 Mbps, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
10.016	1.1	11.1	24	Pass	

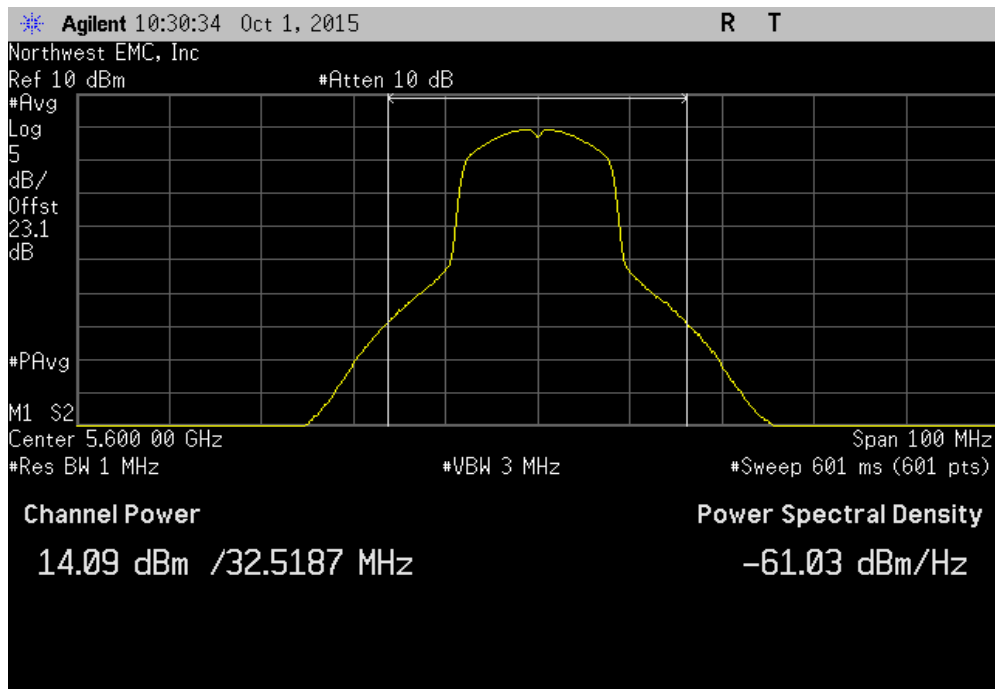


MAXIMUM CONDUCTED OUTPUT POWER

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	

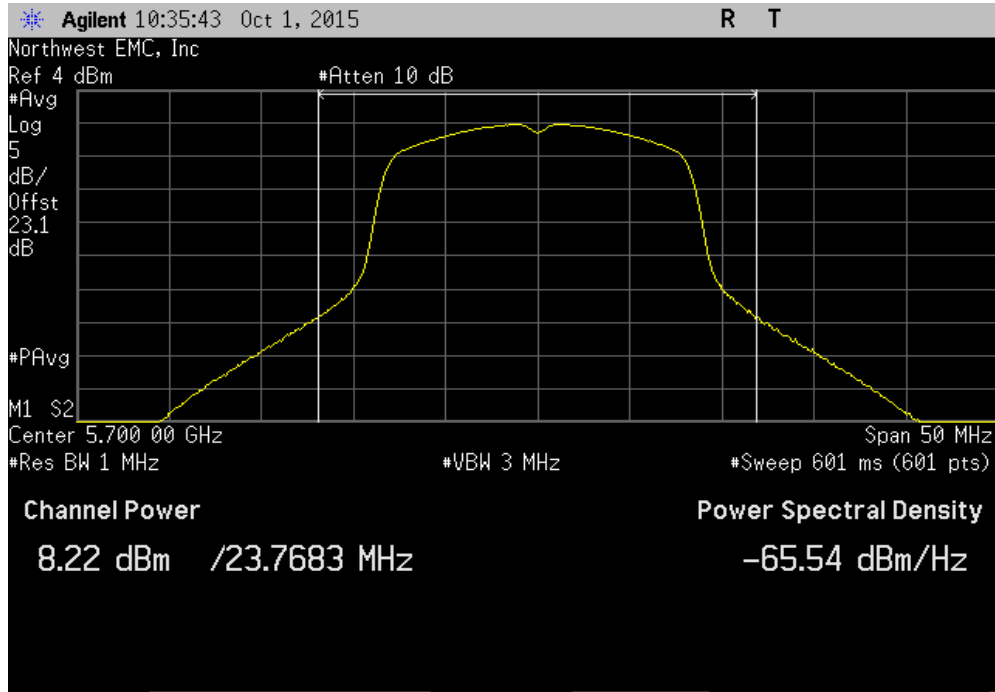


Ant 1, 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
14.087	1.1	15.2	24	Pass	

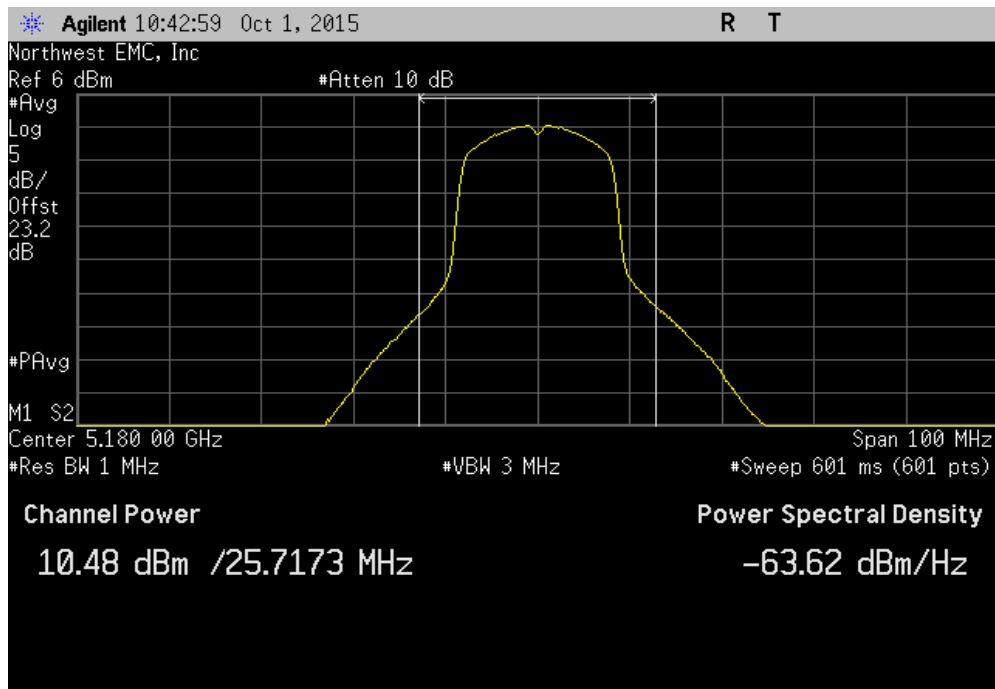


MAXIMUM CONDUCTED OUTPUT POWER

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	

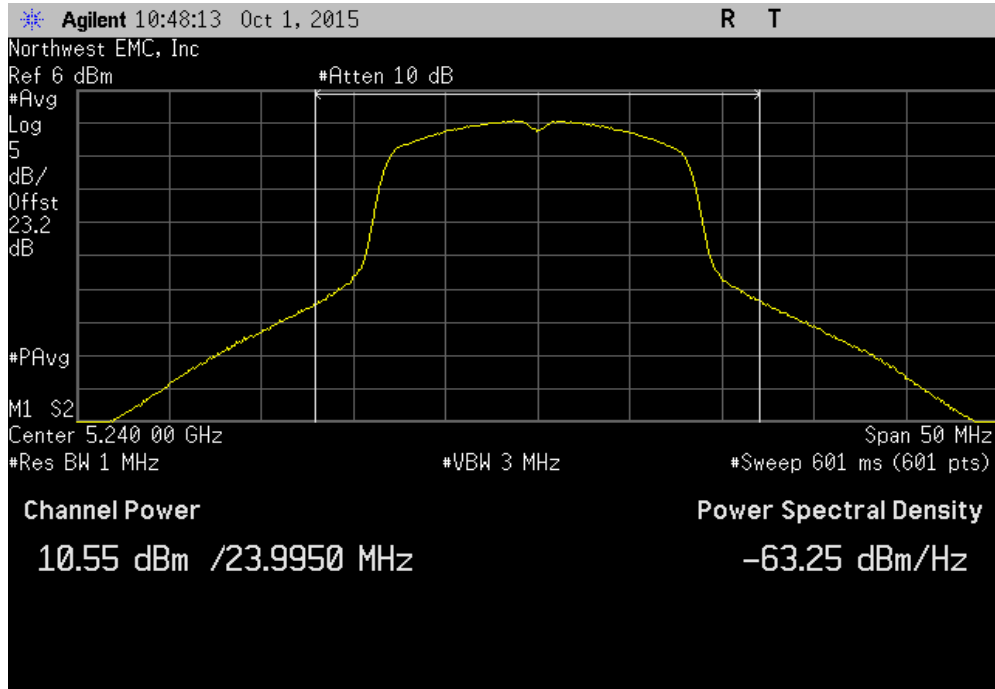


Ant 1, 802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
10.482	4.2	14.7	24	Pass	

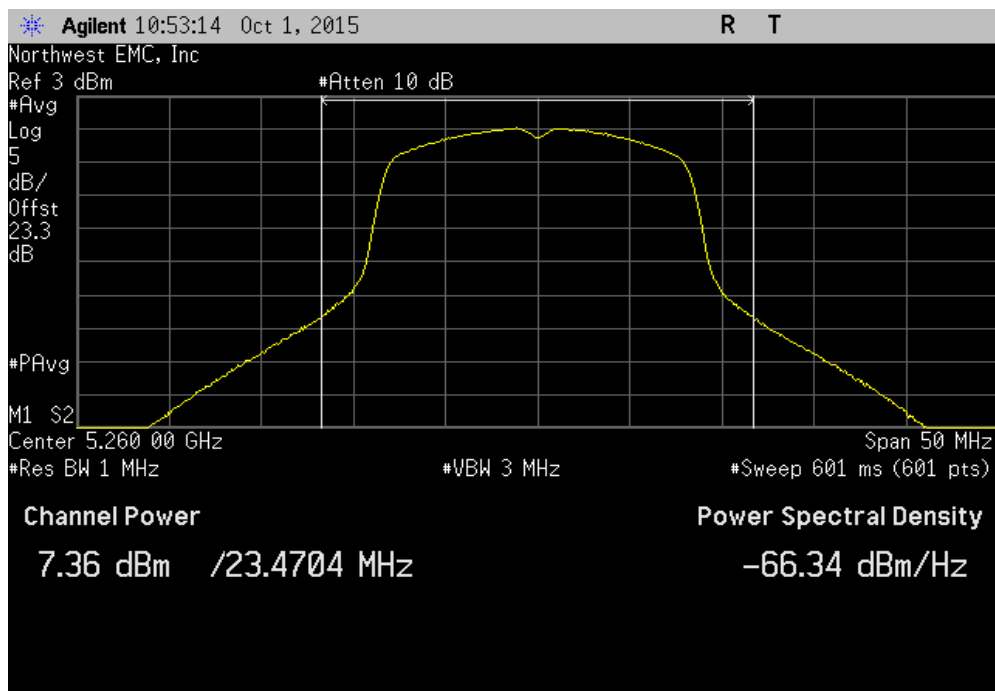


MAXIMUM CONDUCTED OUTPUT POWER

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	

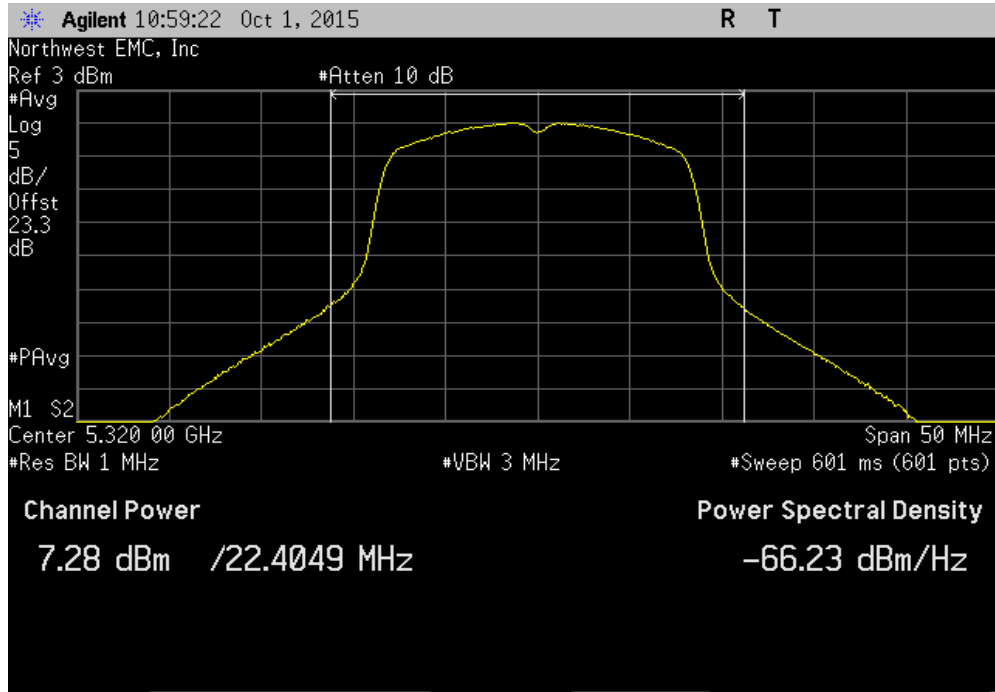


Ant 1, 802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
7.362	4.2	11.5	24	Pass	

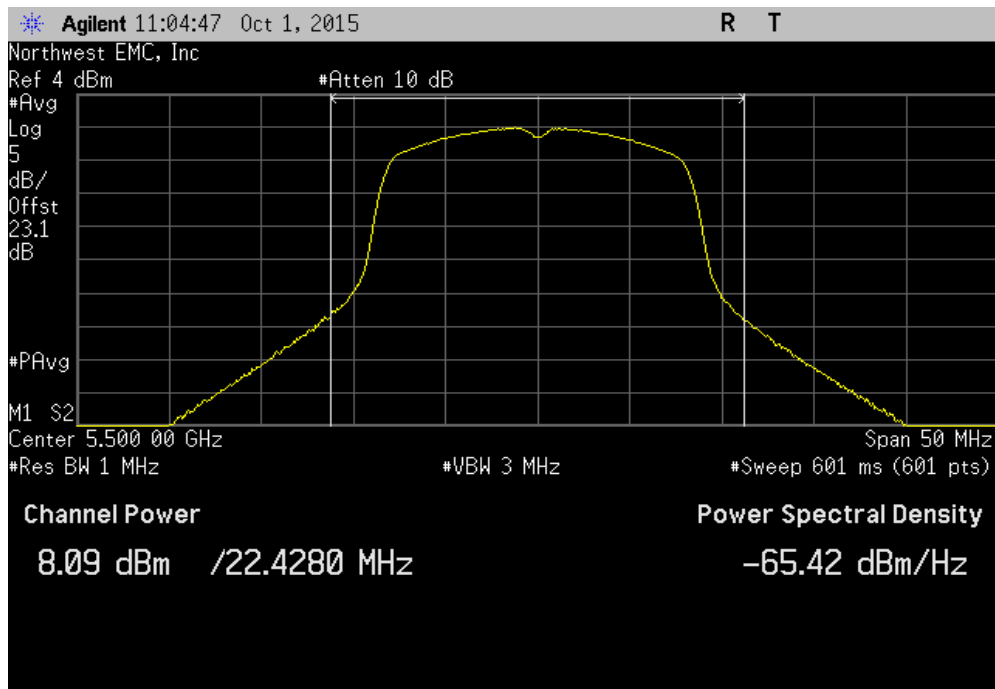


MAXIMUM CONDUCTED OUTPUT POWER

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	

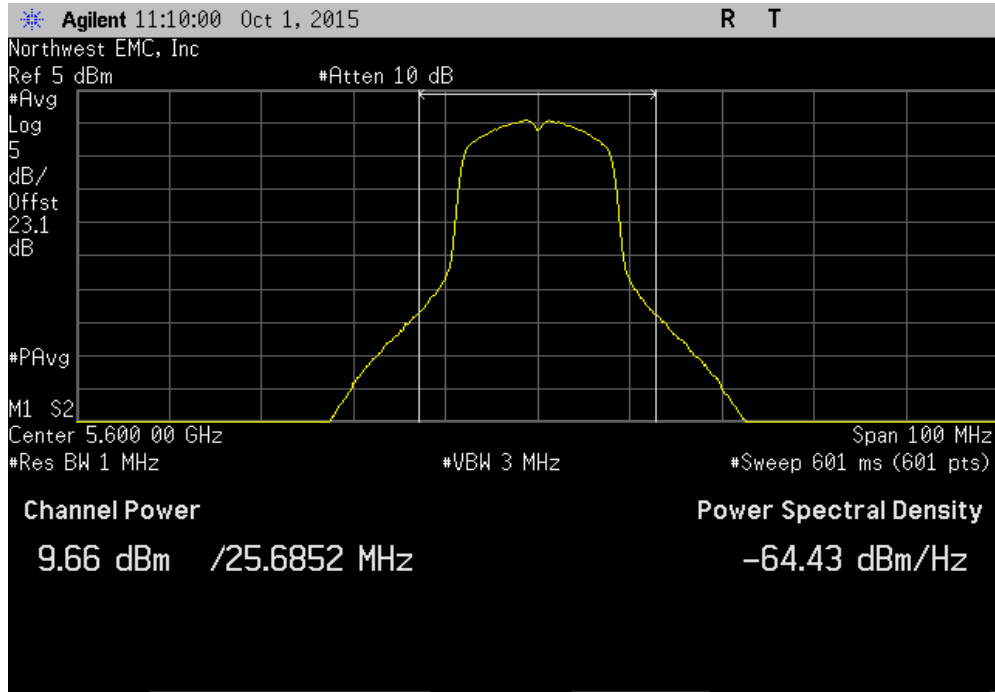


Ant 1, 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
8.091	4.2	12.3	24	Pass	

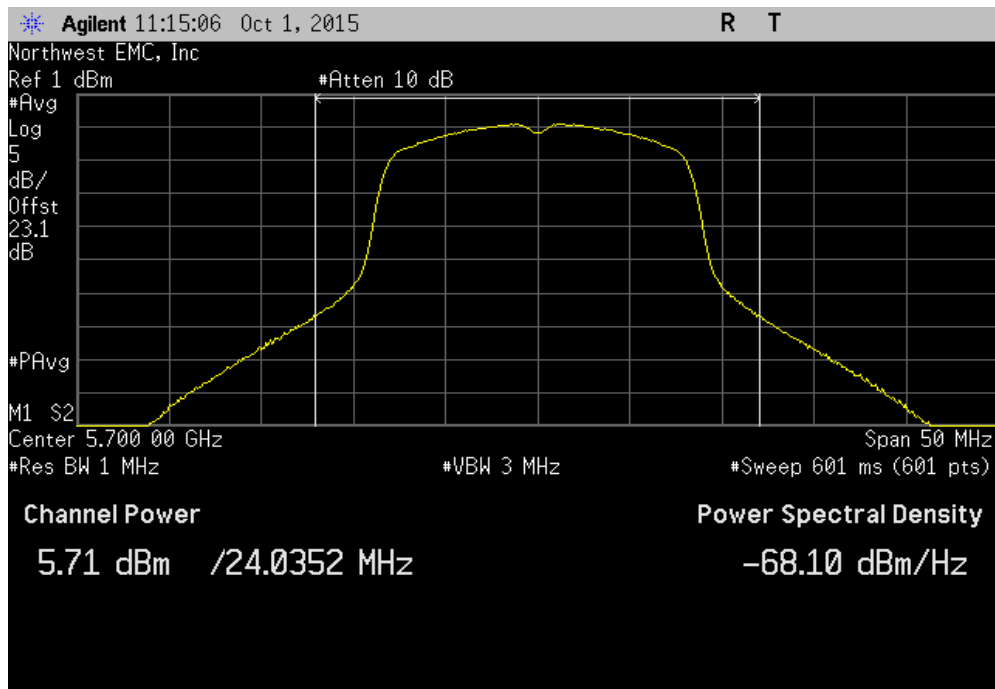


MAXIMUM CONDUCTED OUTPUT POWER

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	

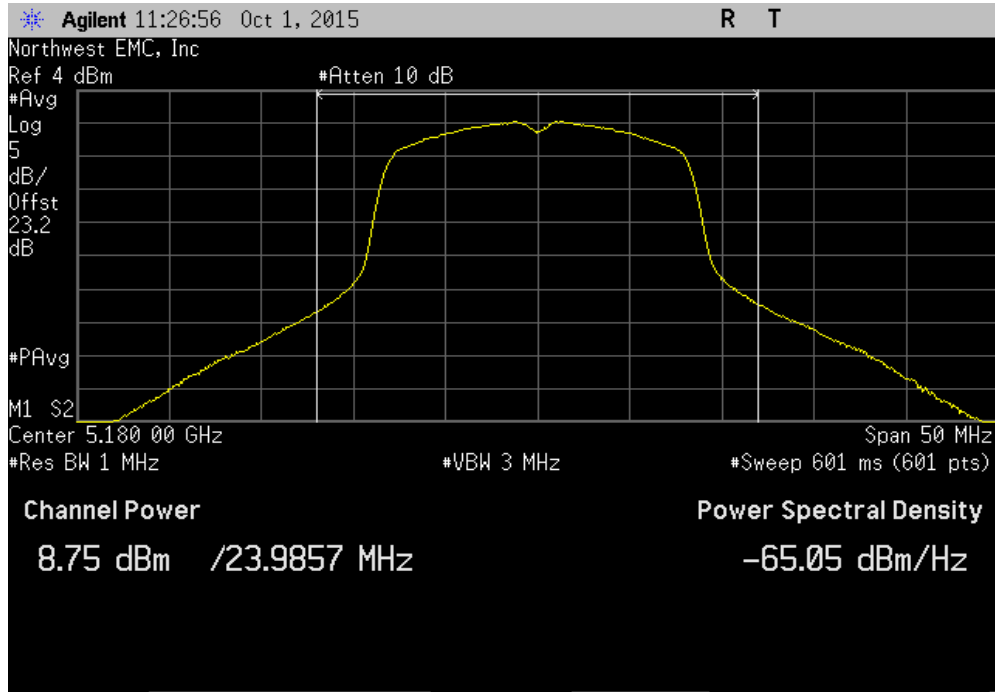


Ant 1, 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
5.705	4.2	9.9	24	Pass	

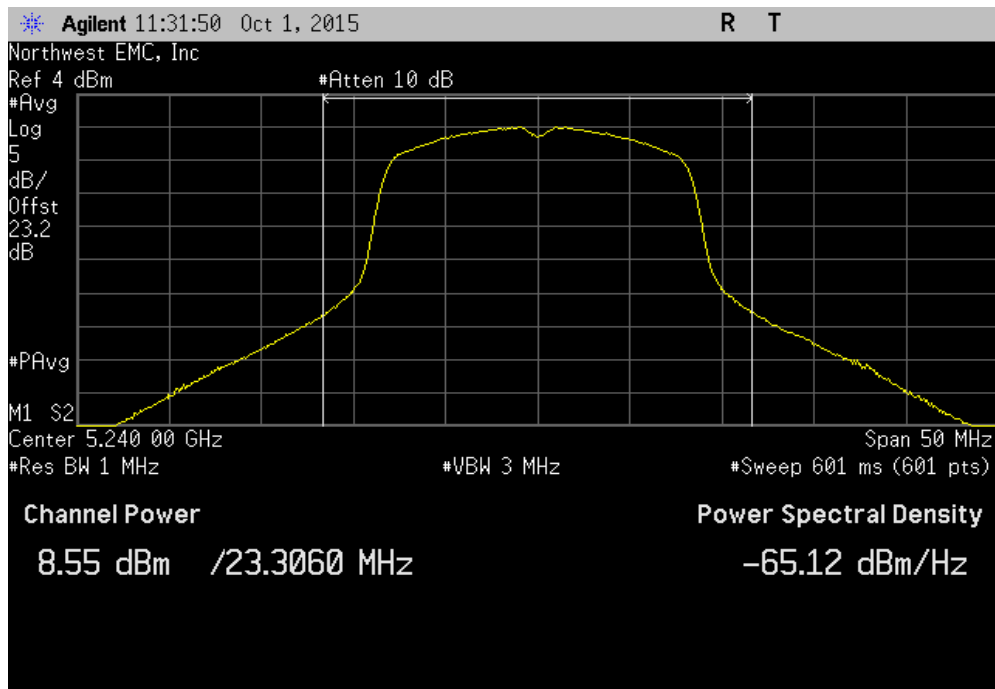


MAXIMUM CONDUCTED OUTPUT POWER

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

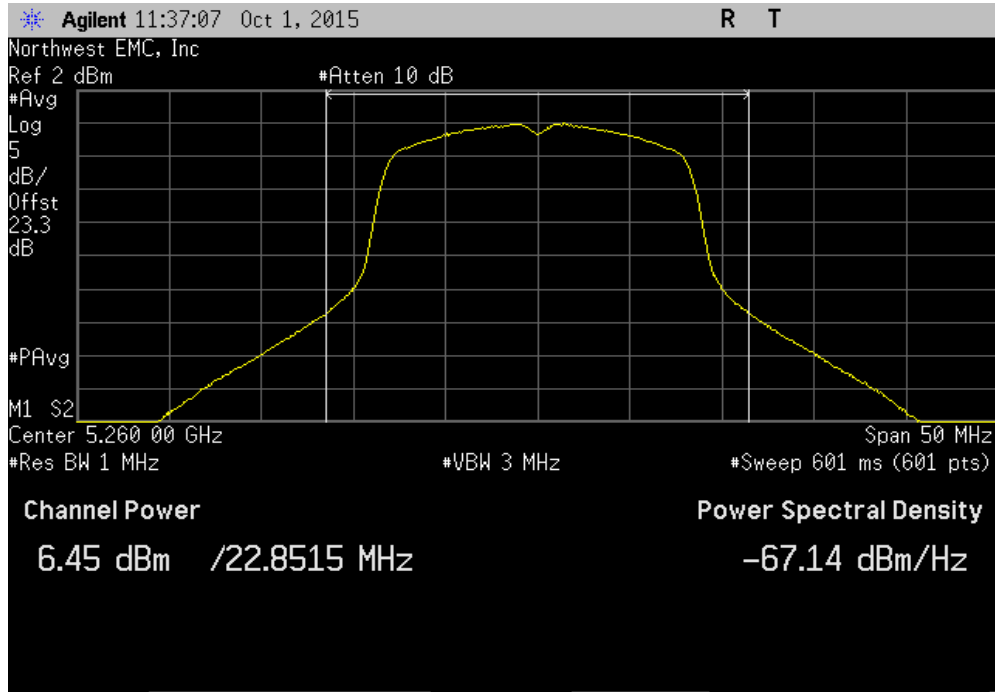


Ant 1, 802.11(a) 54 Mbps, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
8.554	5.2	13.8	24	Pass		

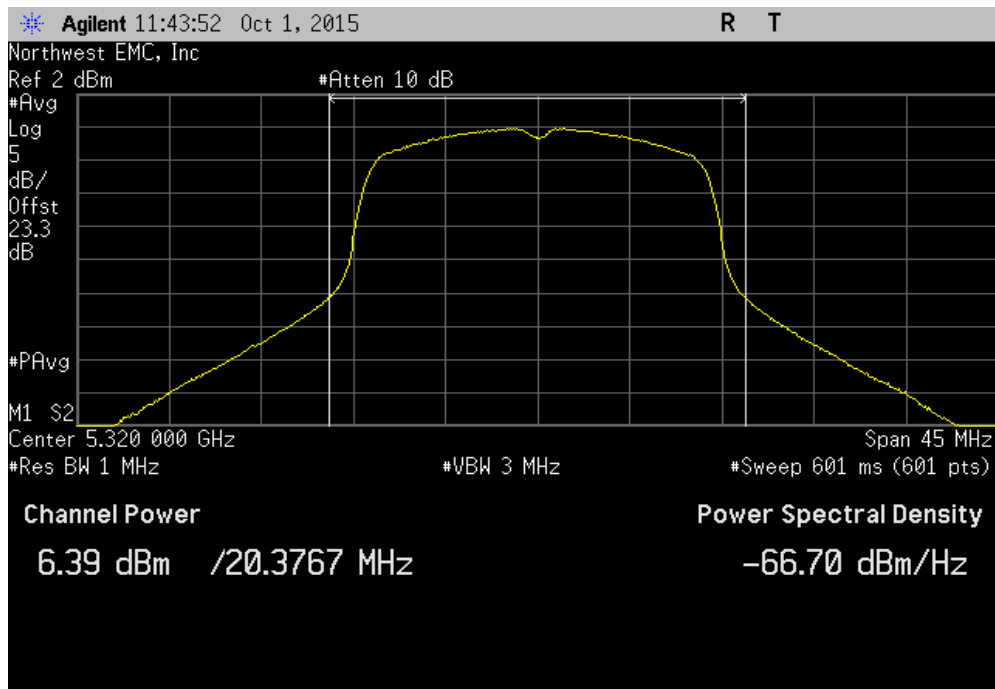


MAXIMUM CONDUCTED OUTPUT POWER

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

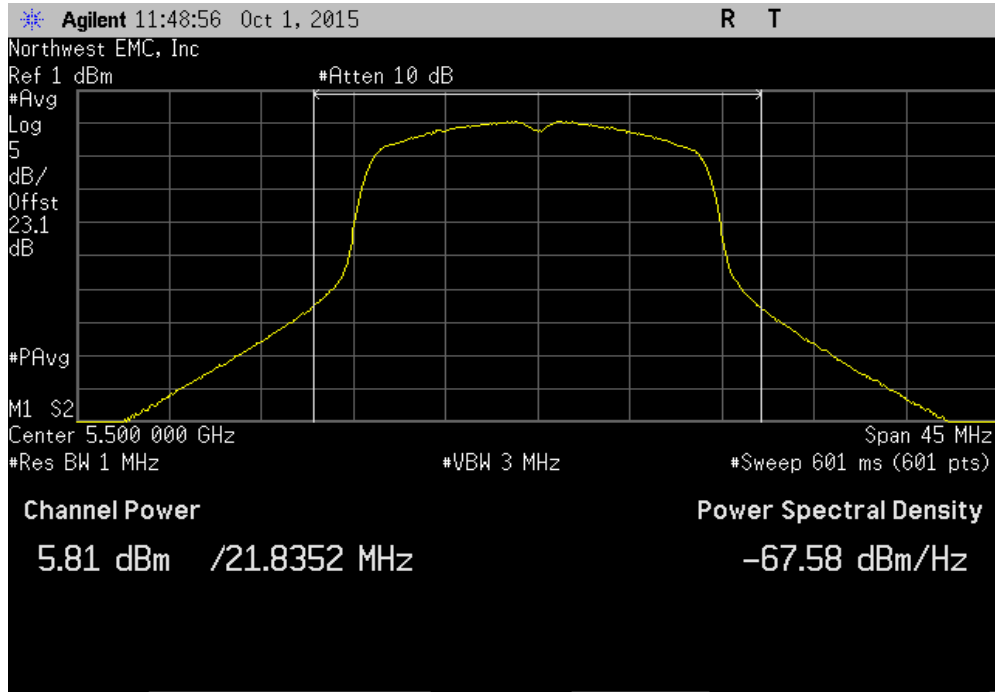


Ant 1, 802.11(a) 54 Mbps, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
6.394	5.3	11.7	24	Pass	

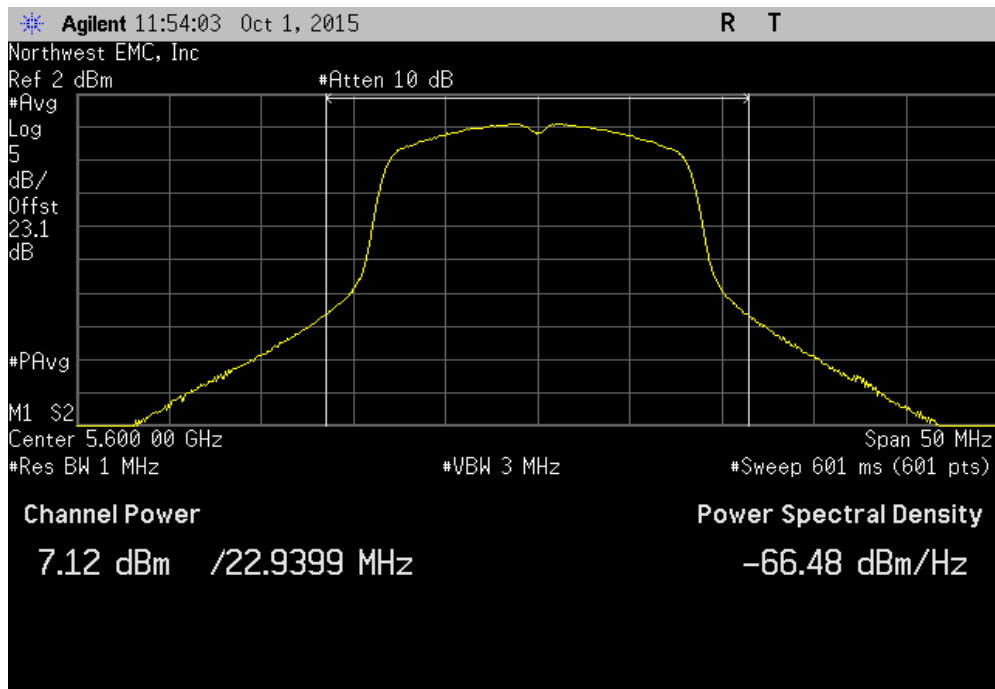


MAXIMUM CONDUCTED OUTPUT POWER

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	

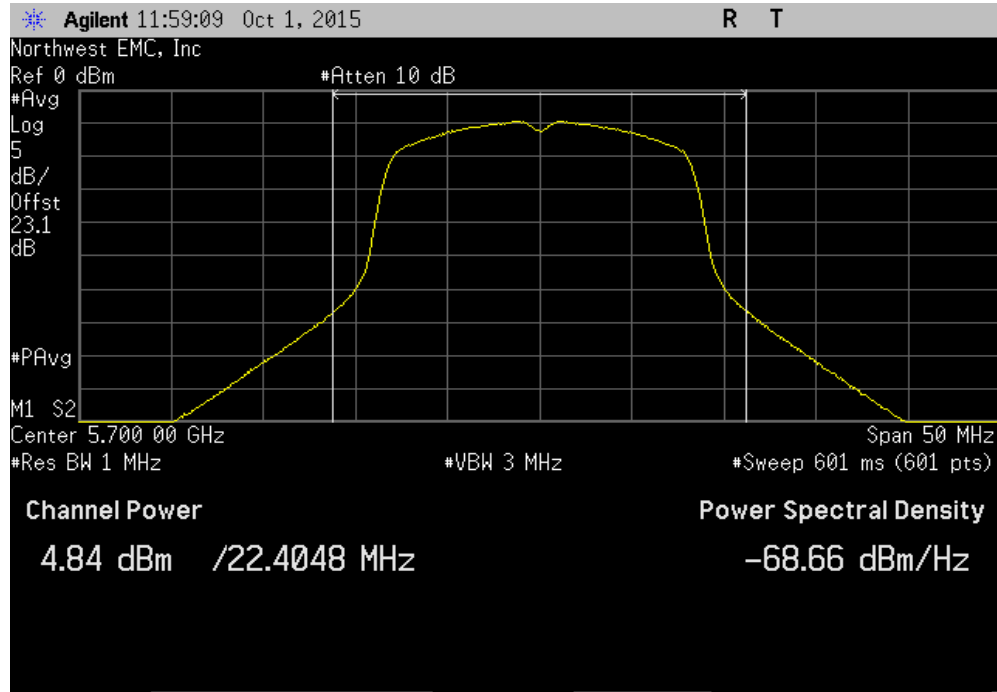


Ant 1, 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
7.122	5.3	12.4	24	Pass	

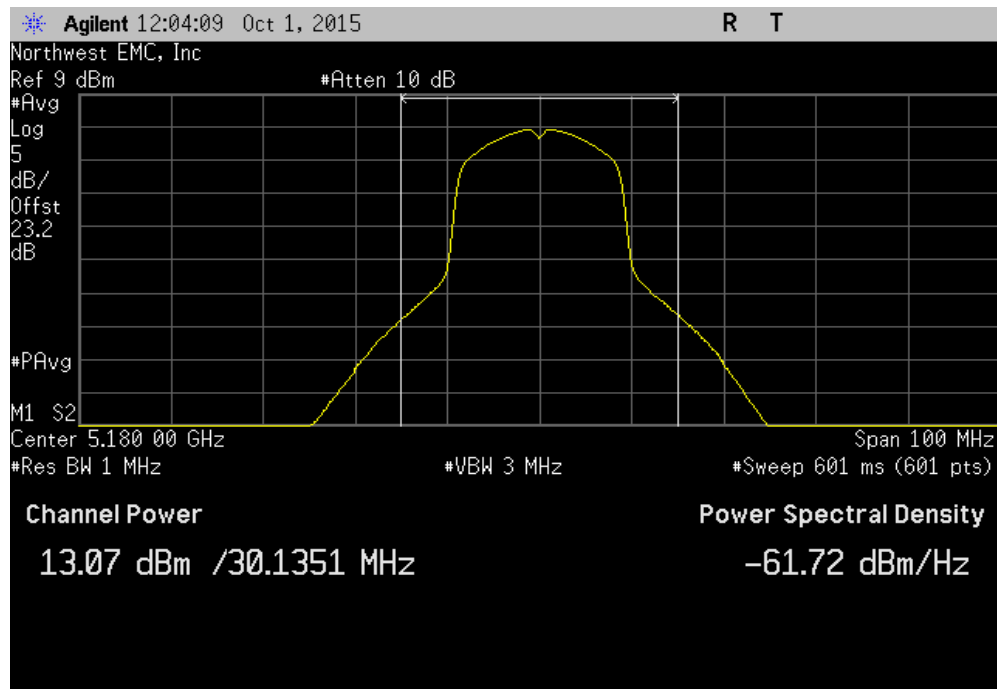


MAXIMUM CONDUCTED OUTPUT POWER

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	

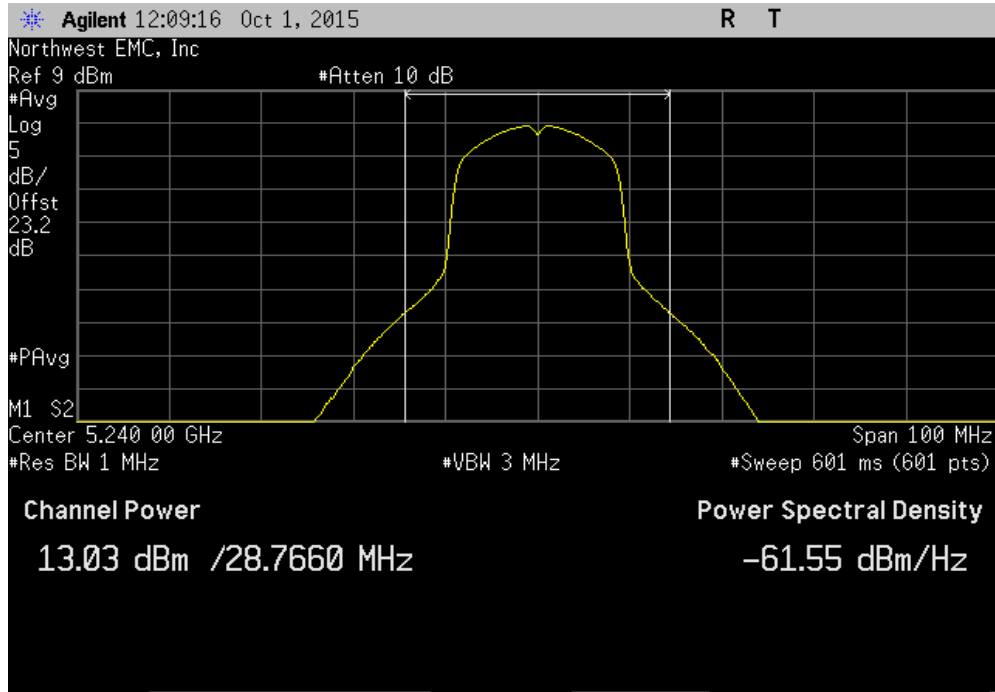


Ant 1, 802.11(n) MCS0, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
13.073	1.2	14.2	24	Pass	

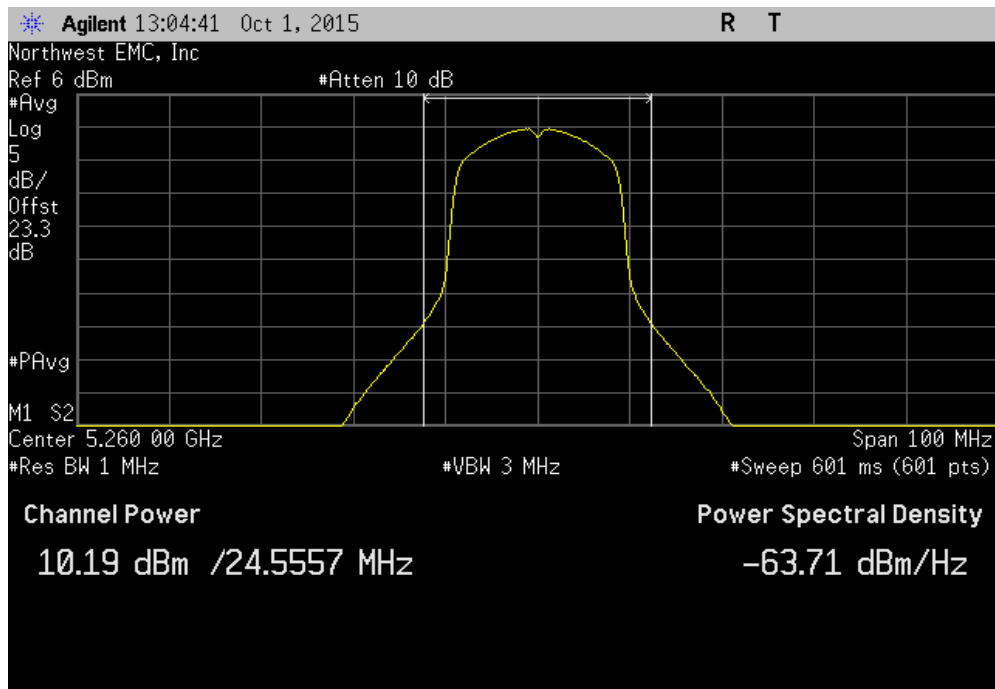


MAXIMUM CONDUCTED OUTPUT POWER

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	

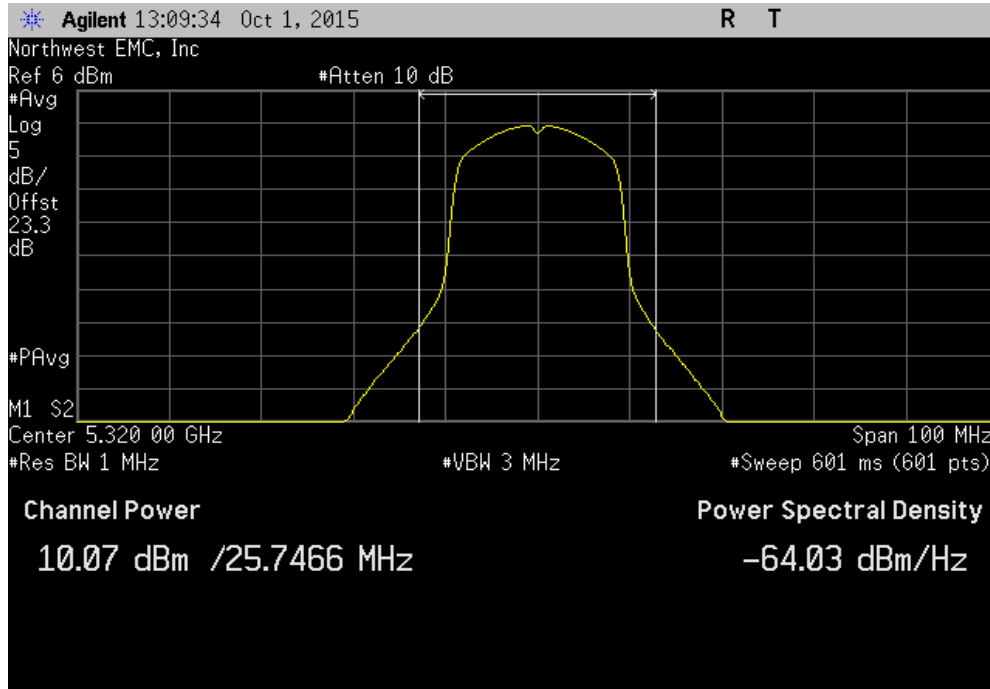


Ant 1, 802.11(n) MCS0, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
10.189	1.2	11.4	24	Pass	

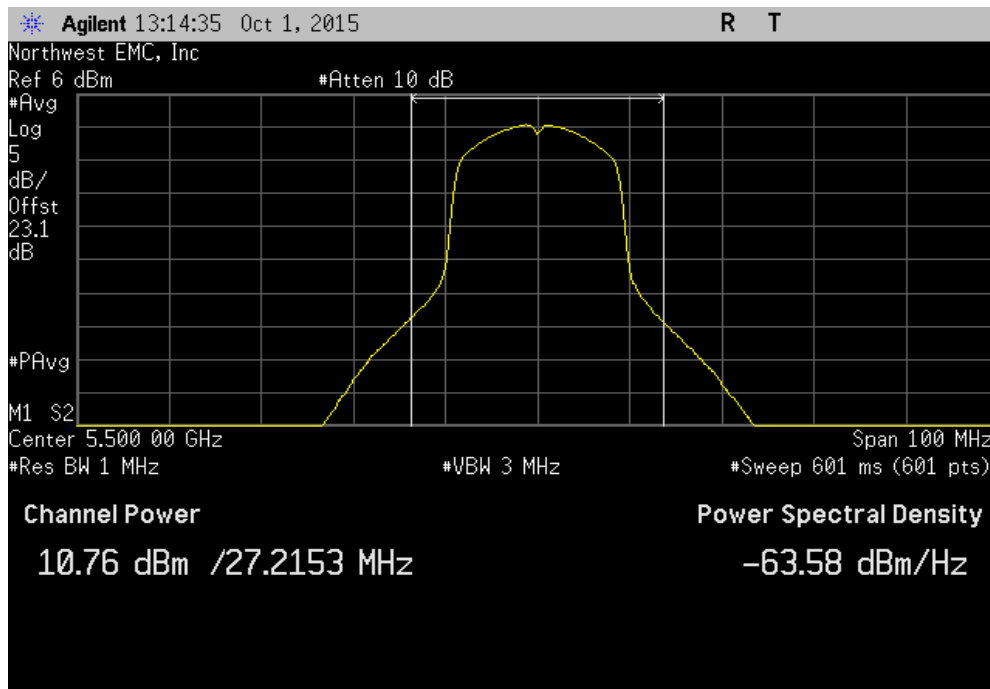


MAXIMUM CONDUCTED OUTPUT POWER

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	

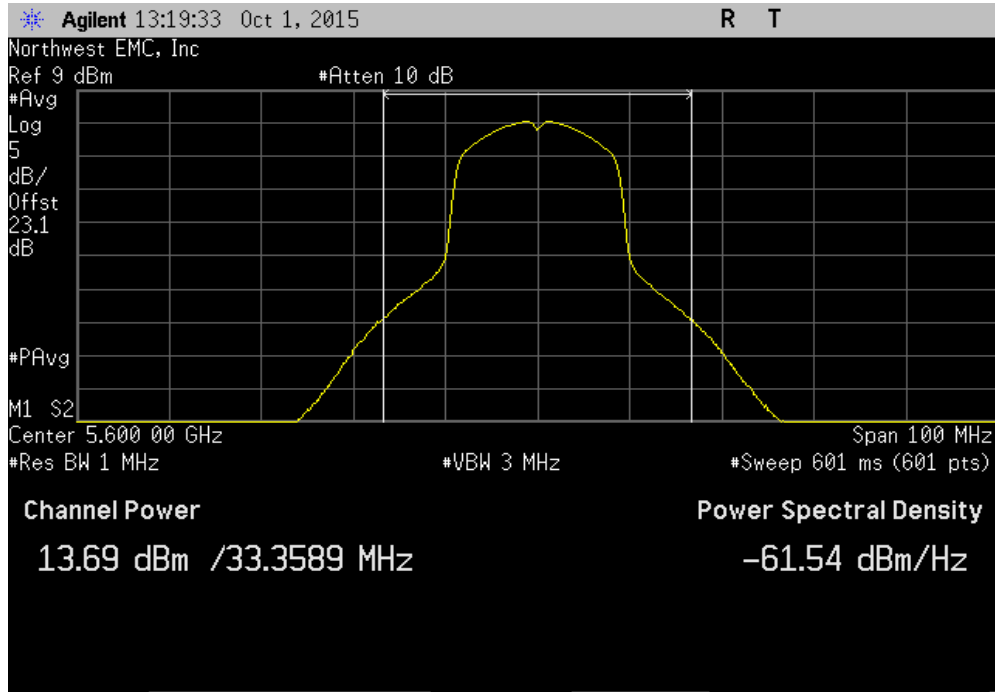


Ant 1, 802.11(n) MCS0, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
10.763	1.2	11.9	24	Pass	

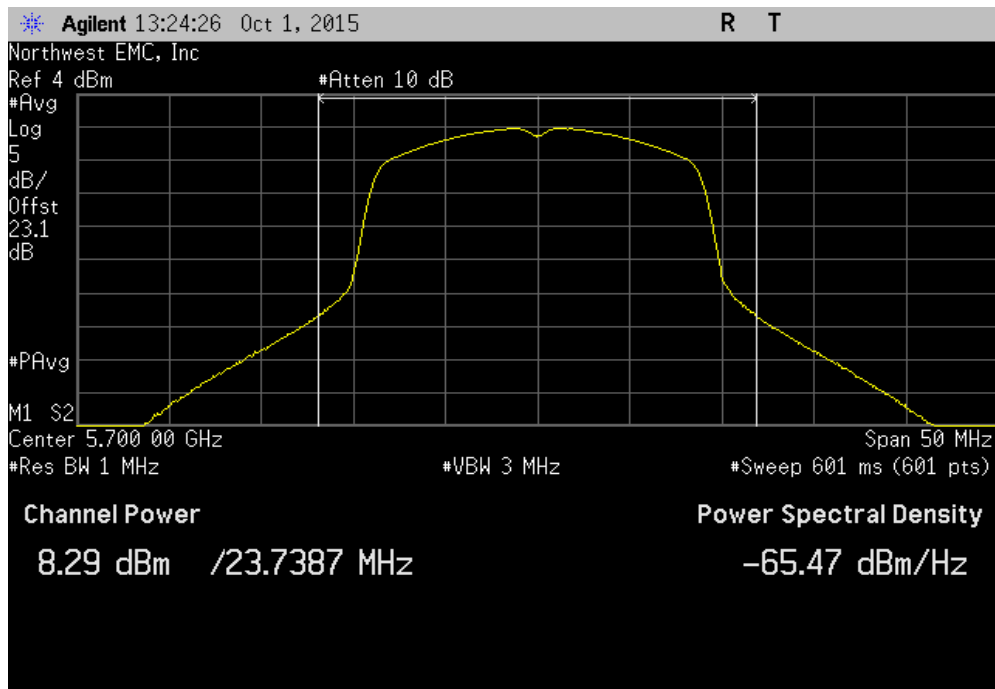


MAXIMUM CONDUCTED OUTPUT POWER

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

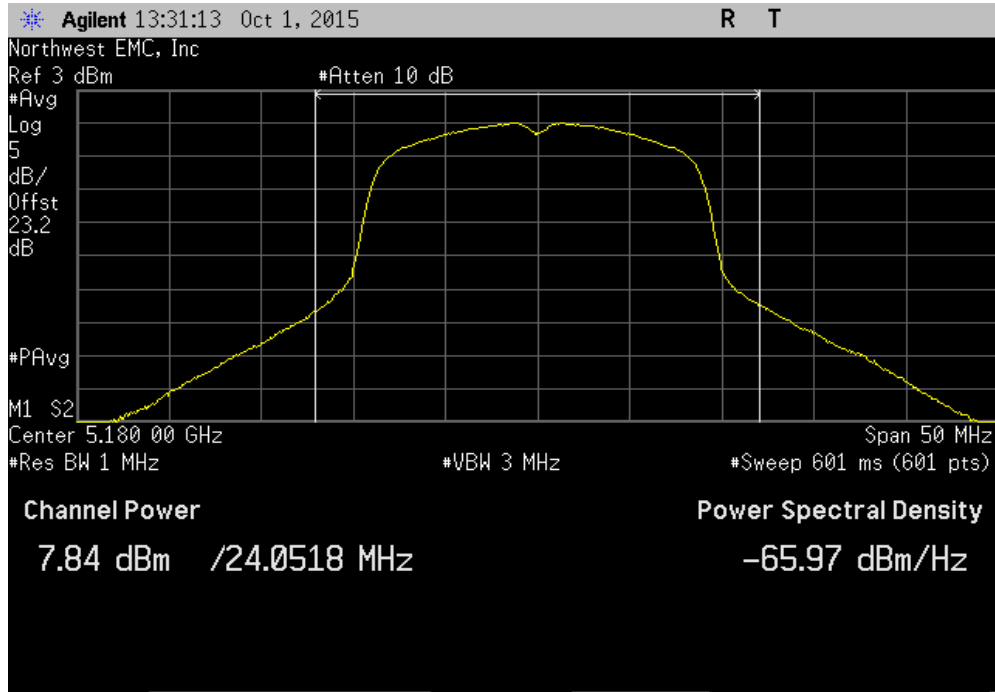


Ant 1, 802.11(n) MCS0, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
8.286	1.2	9.5	24	Pass	

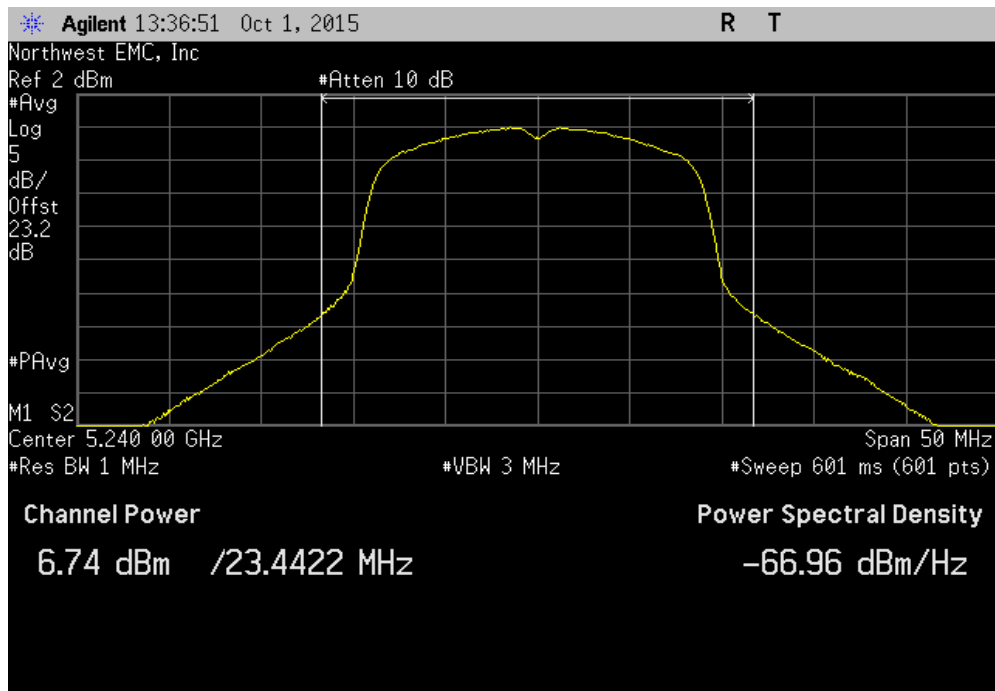


MAXIMUM CONDUCTED OUTPUT POWER

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	

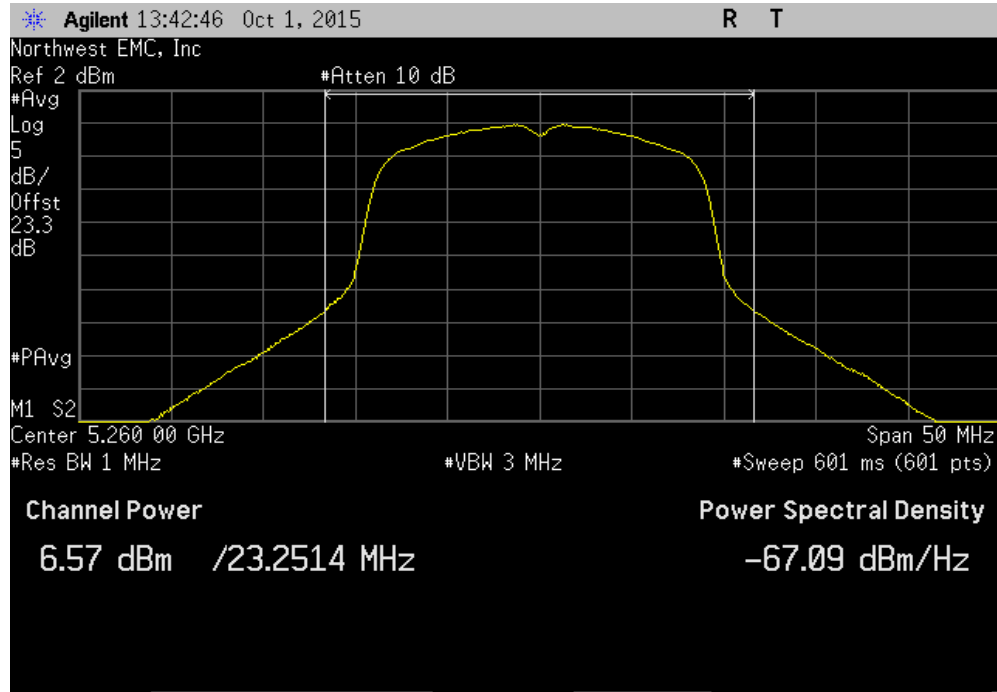


Ant 1, 802.11(n) MCS7, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
6.742	5.5	12.2	24	Pass	

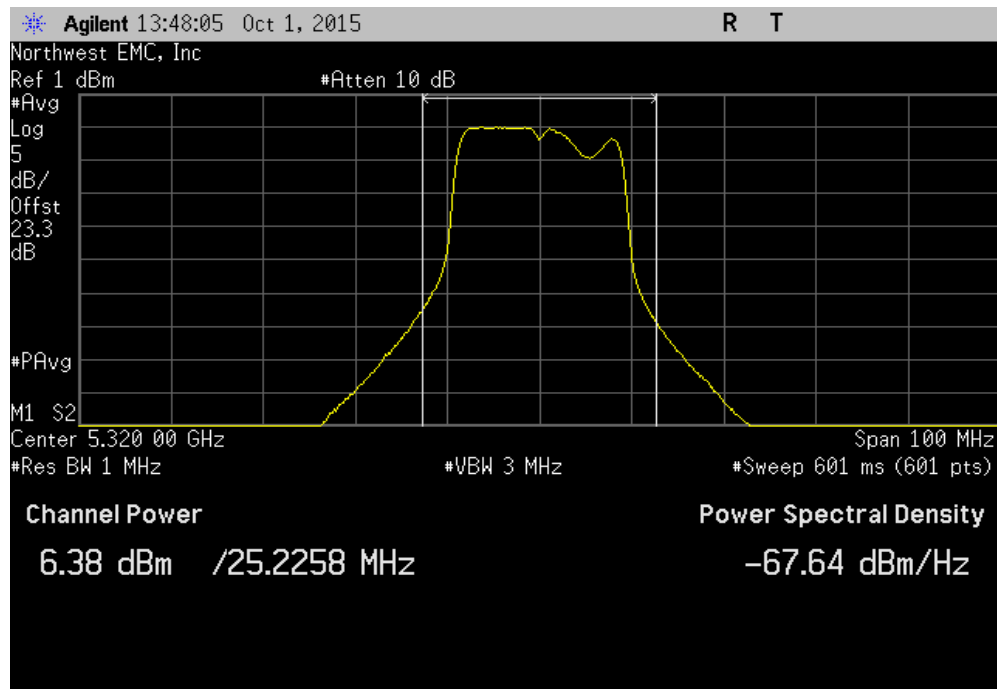


MAXIMUM CONDUCTED OUTPUT POWER

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	

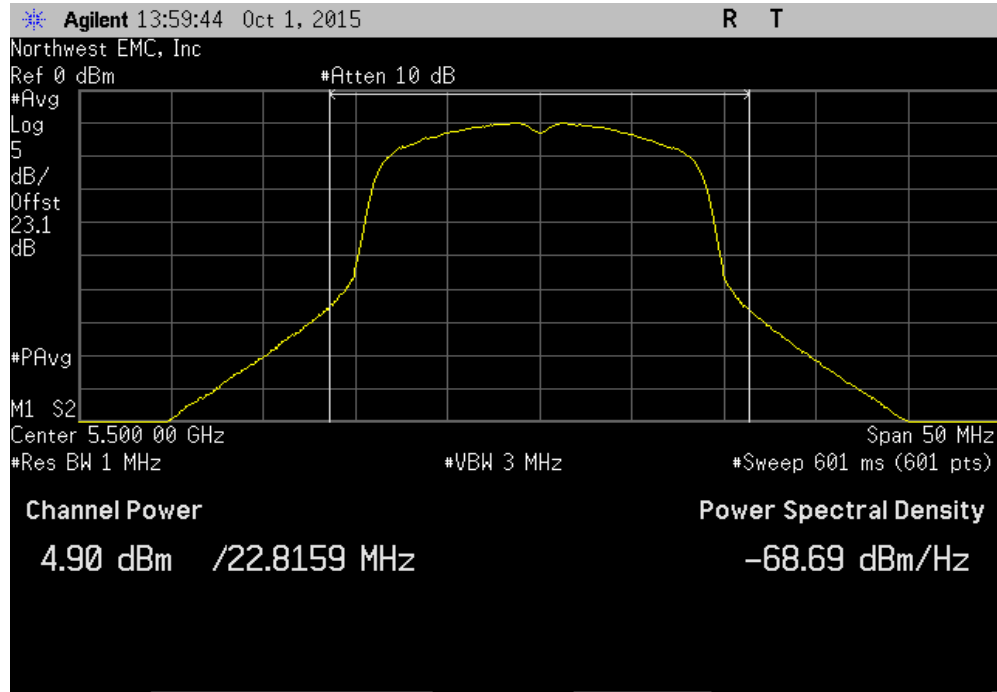


Ant 1, 802.11(n) MCS7, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
6.381	5.5	11.8	24	Pass	

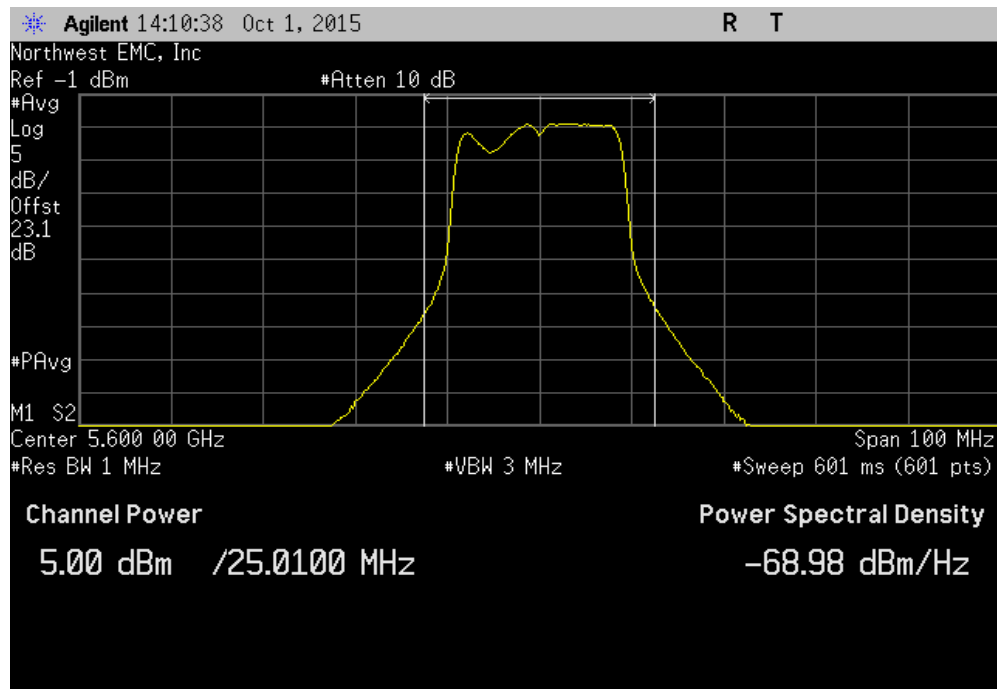


MAXIMUM CONDUCTED OUTPUT POWER

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	

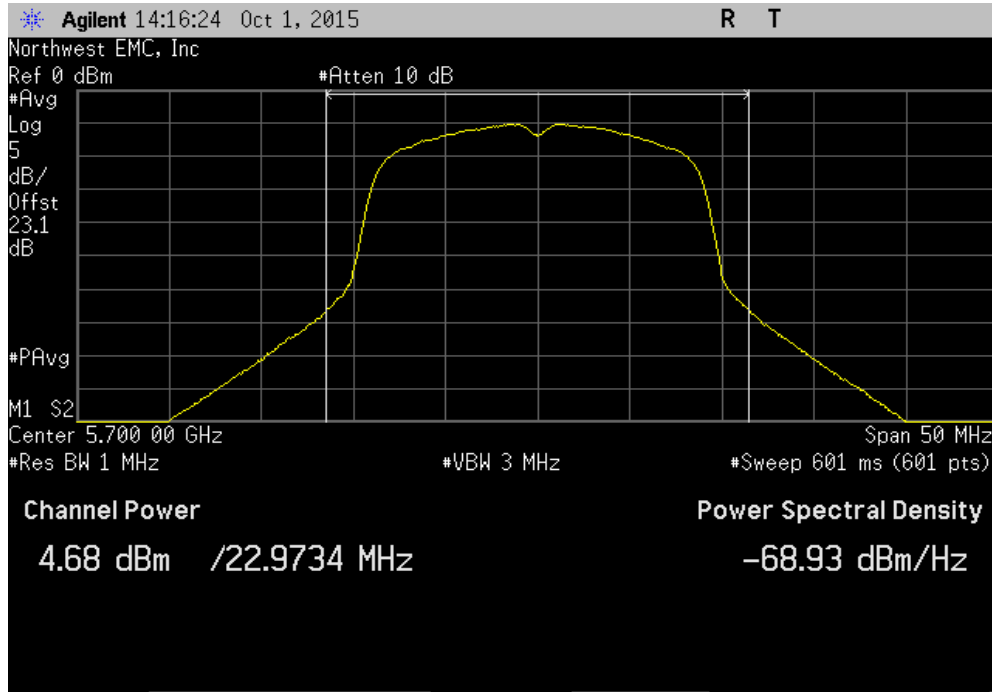


Ant 1, 802.11(n) MCS7, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
4.998	5.5	10.5	24	Pass	

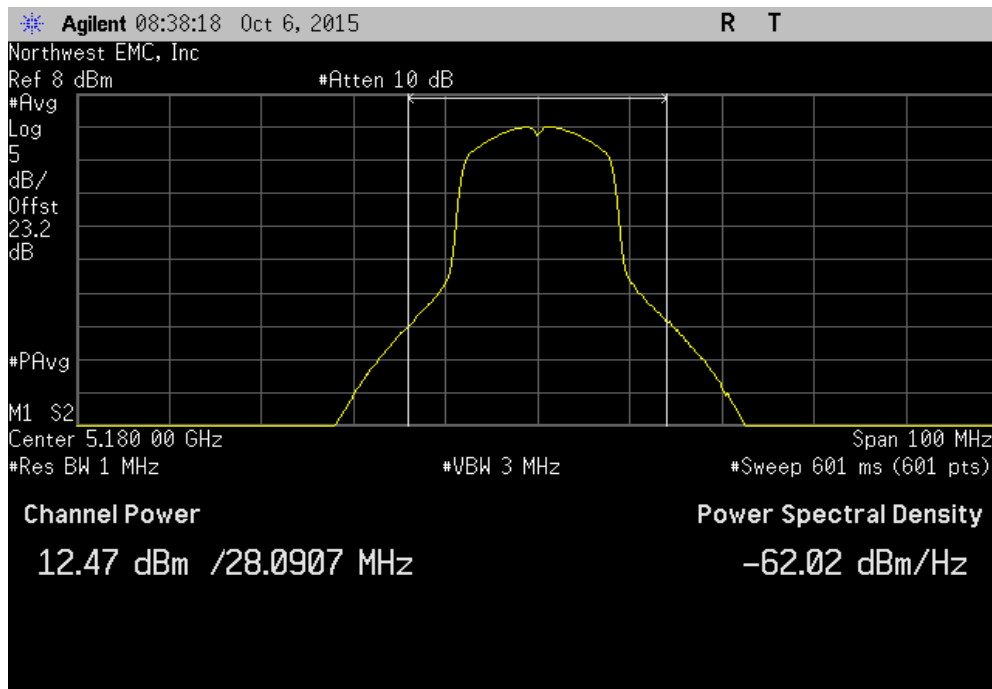


MAXIMUM CONDUCTED OUTPUT POWER

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	

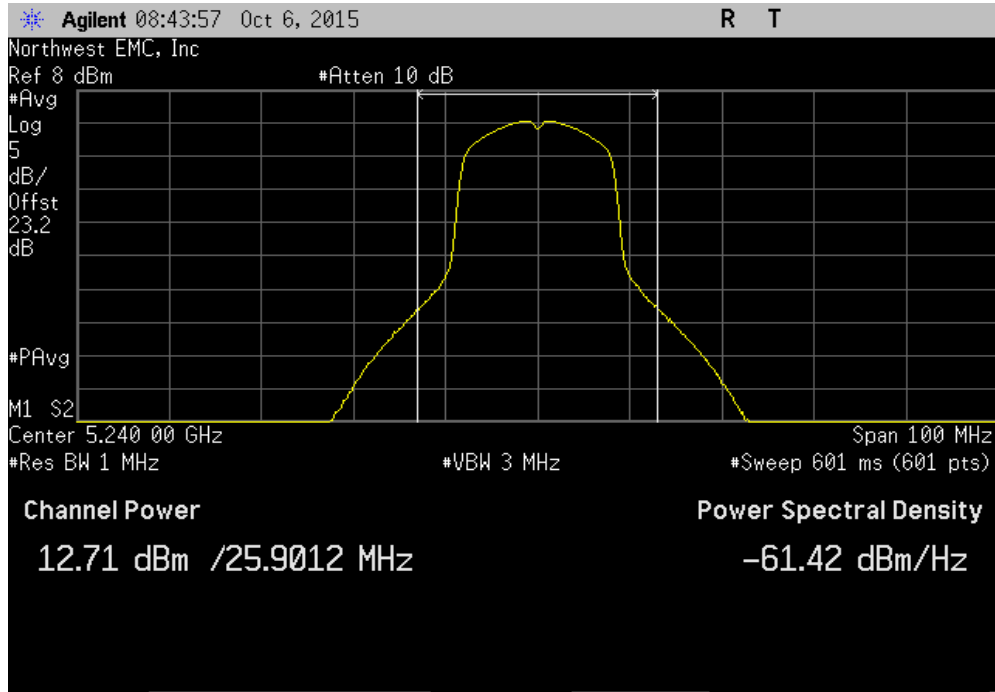


Ant 2, 802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
12.469	1.1	13.6	24	Pass	

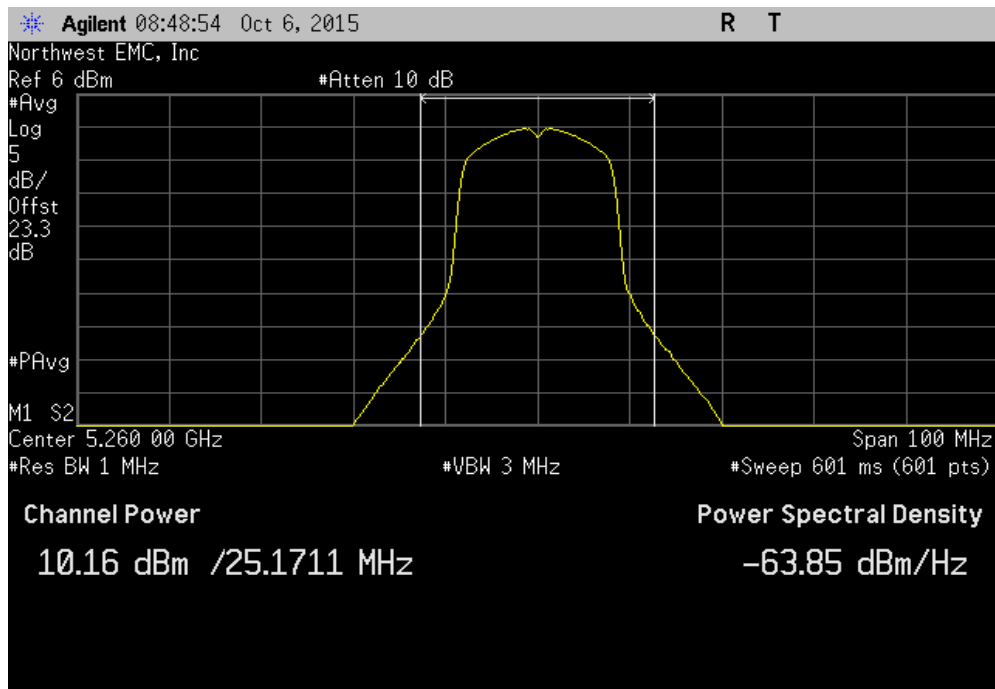


MAXIMUM CONDUCTED OUTPUT POWER

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

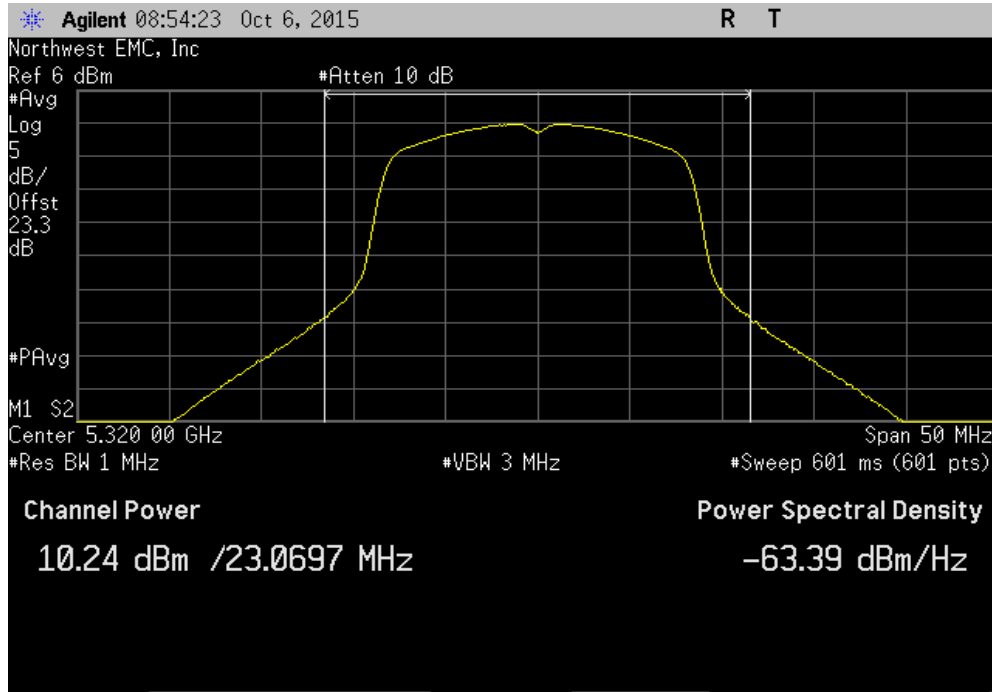


Ant 2, 802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
10.157	1.1	11.3	24	Pass	

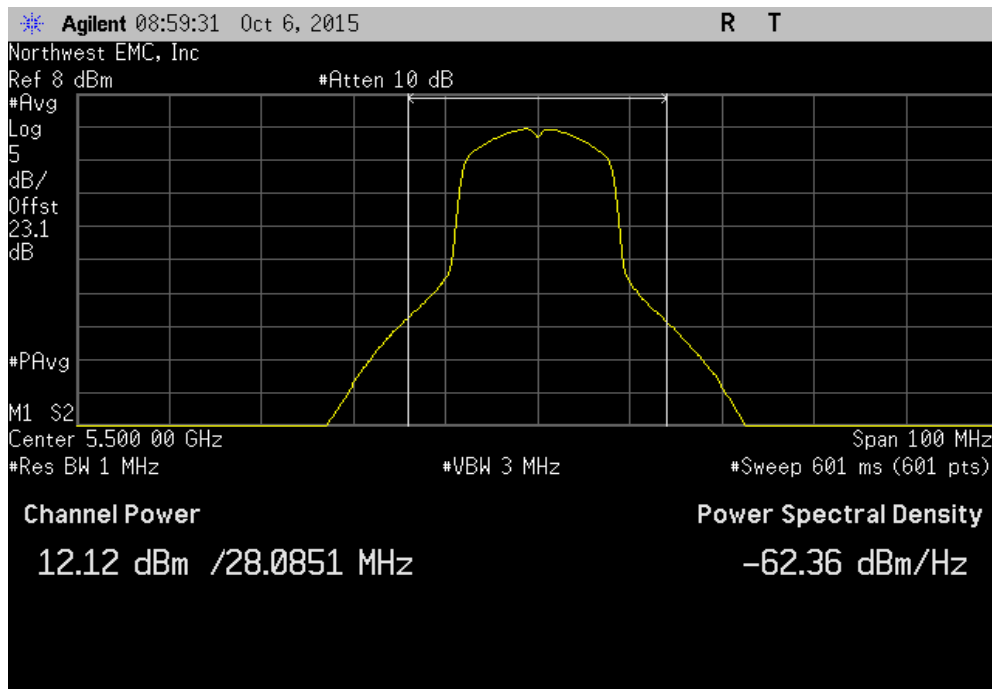


MAXIMUM CONDUCTED OUTPUT POWER

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	

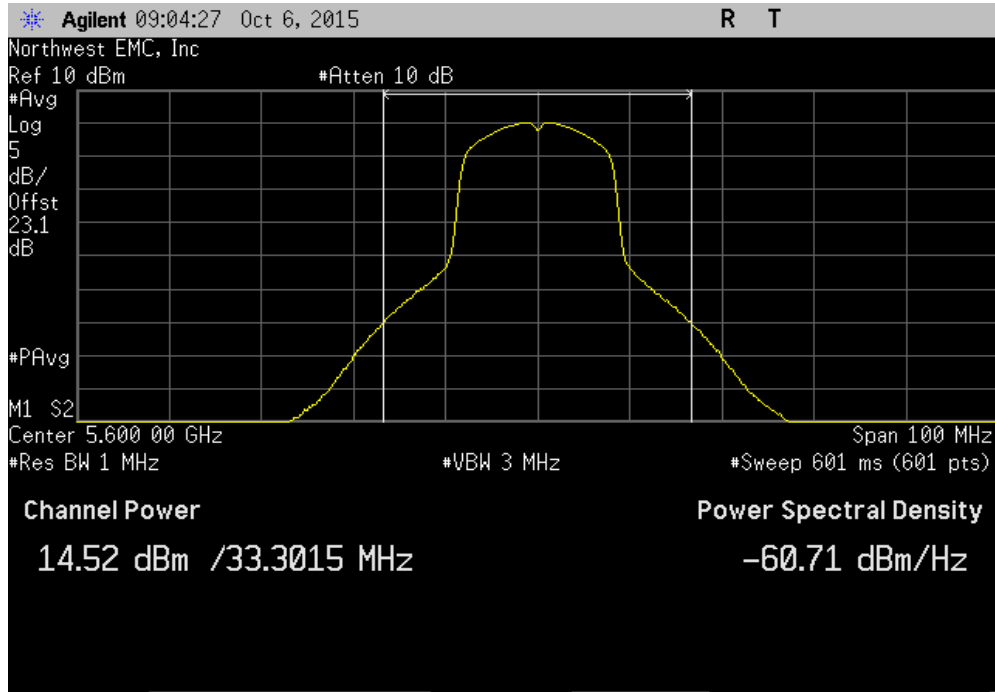


Ant 2, 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
12.122	1.1	13.2	24	Pass	

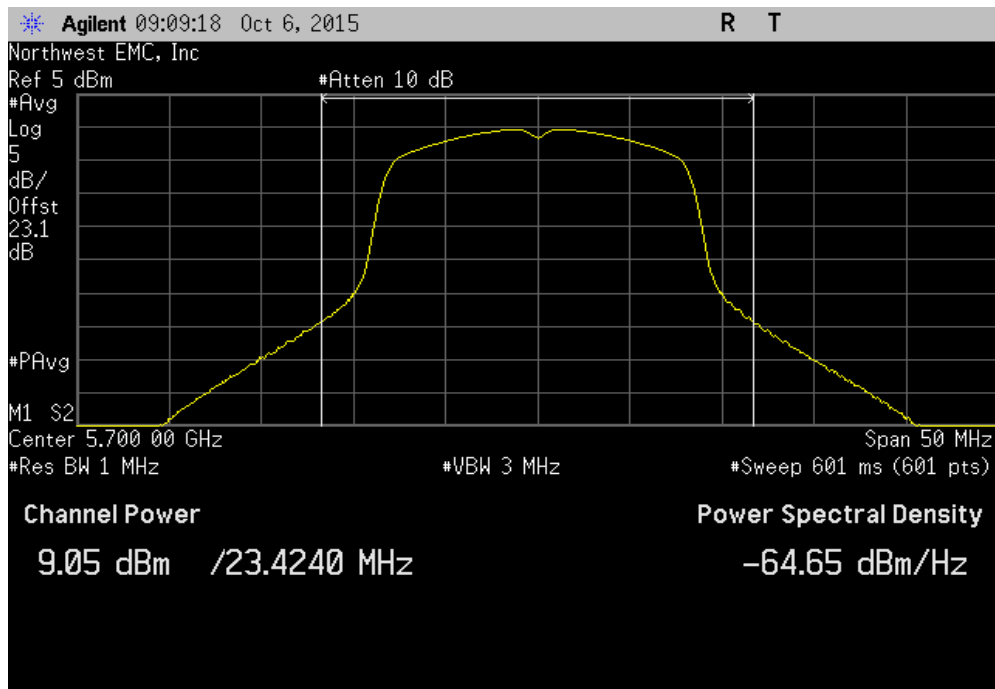


MAXIMUM CONDUCTED OUTPUT POWER

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

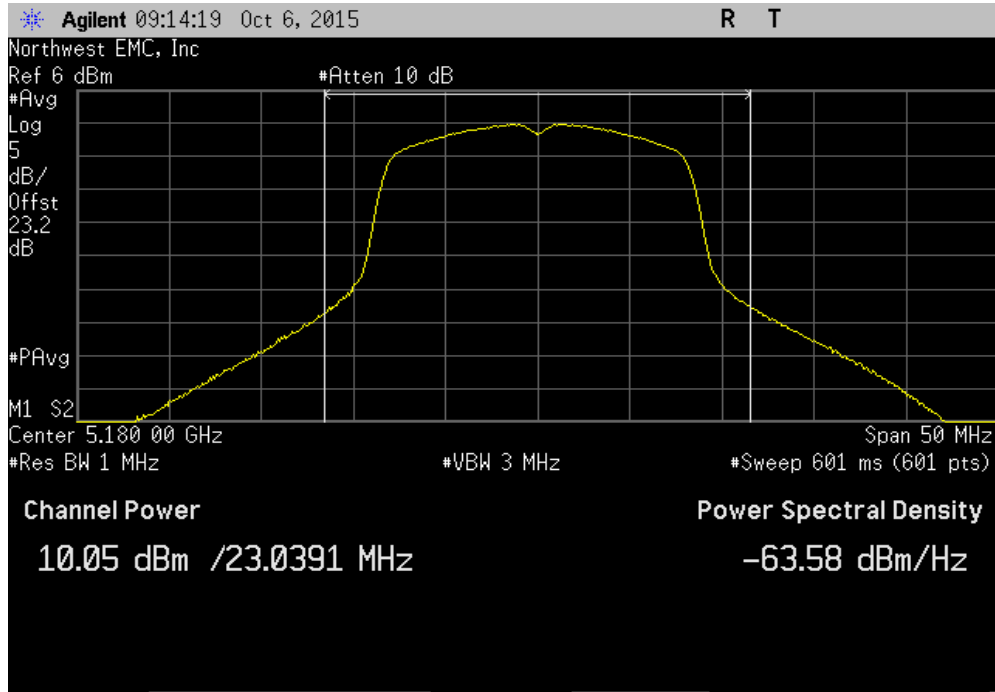


Ant 2, 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
9.049	1.1	10.1	24	Pass	

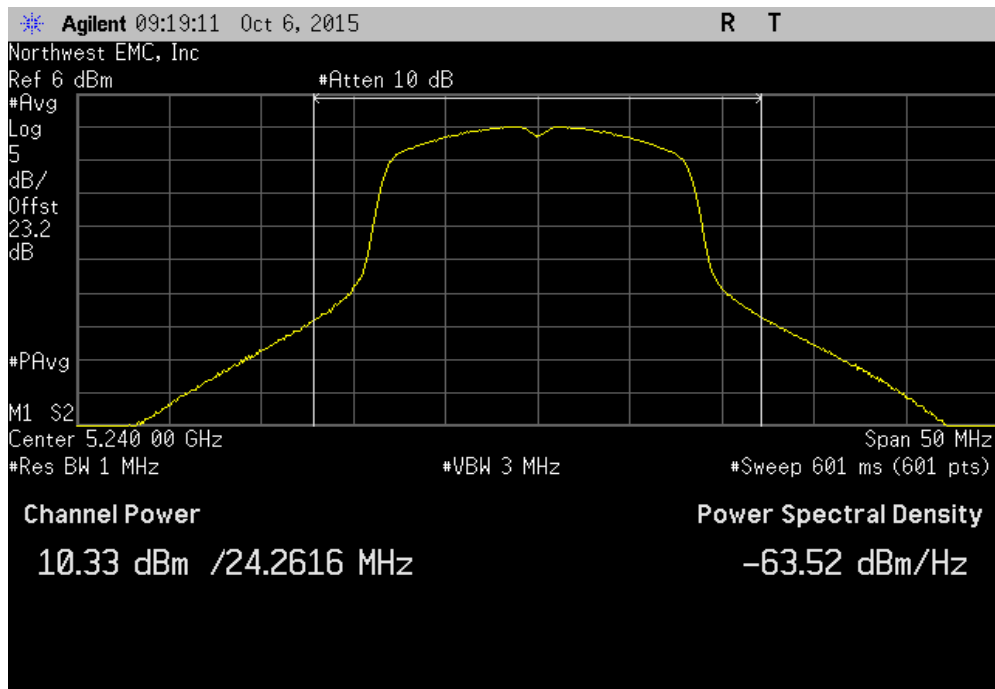


MAXIMUM CONDUCTED OUTPUT POWER

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	

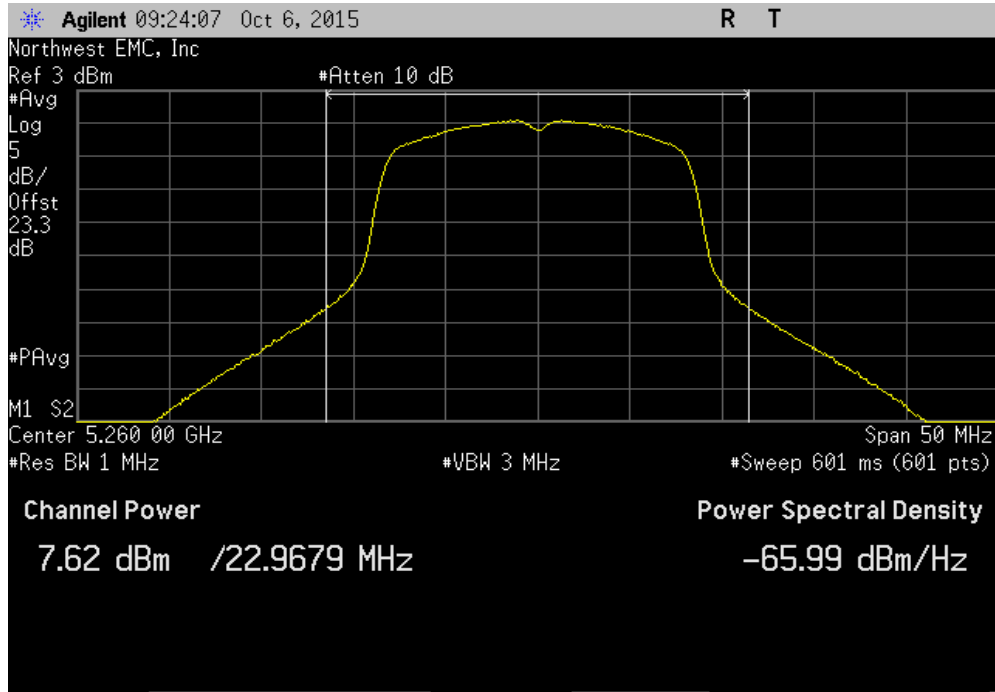


Ant 2, 802.11(a) 36 Mbps, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
10.333	4.2	14.6	24	Pass	

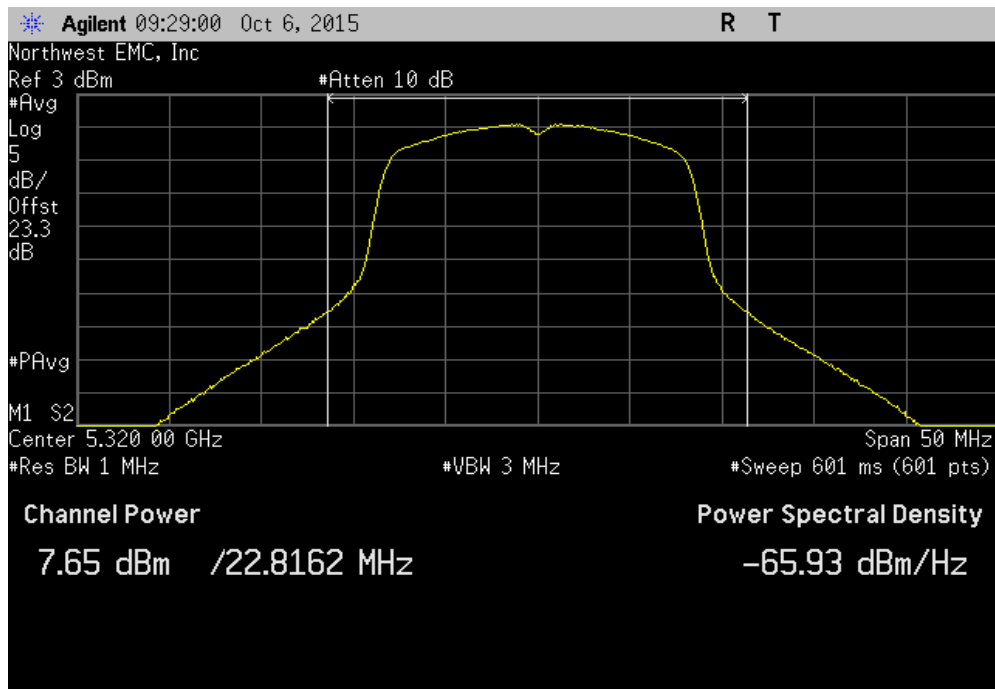


MAXIMUM CONDUCTED OUTPUT POWER

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

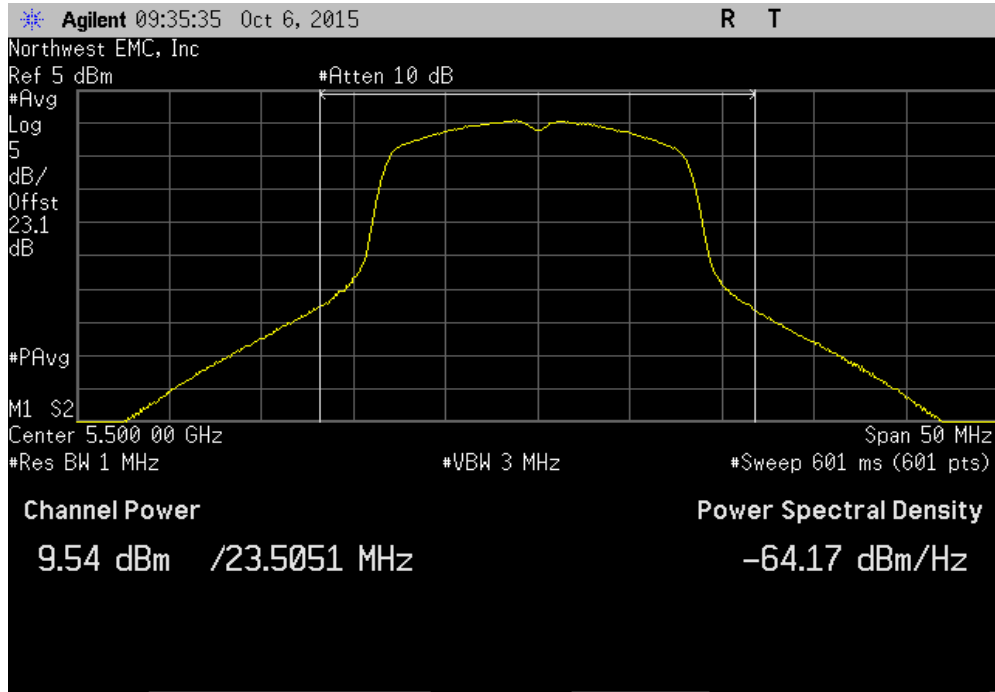


Ant 2, 802.11(a) 36 Mbps, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
7.652	4.2	11.8	24	Pass	

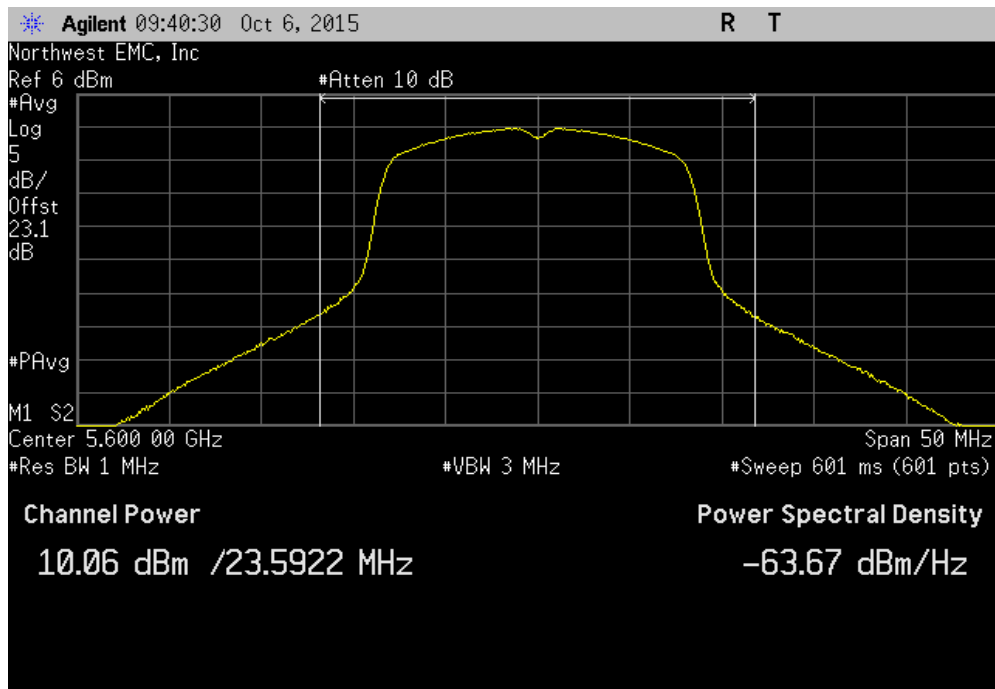


MAXIMUM CONDUCTED OUTPUT POWER

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

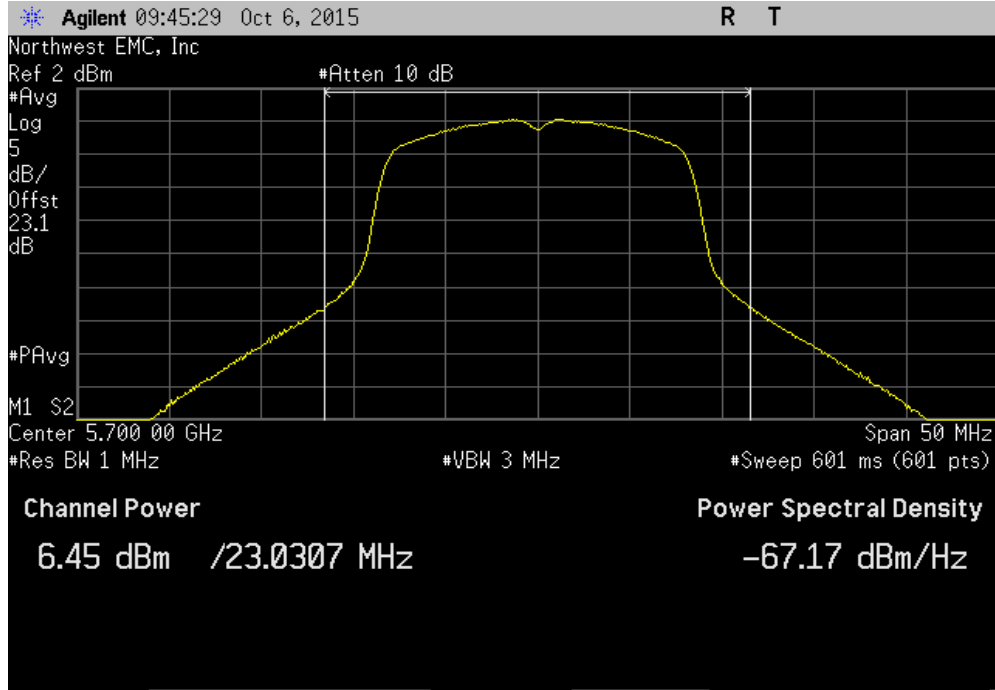


Ant 2, 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
10.056	4.2	14.2	24	Pass	

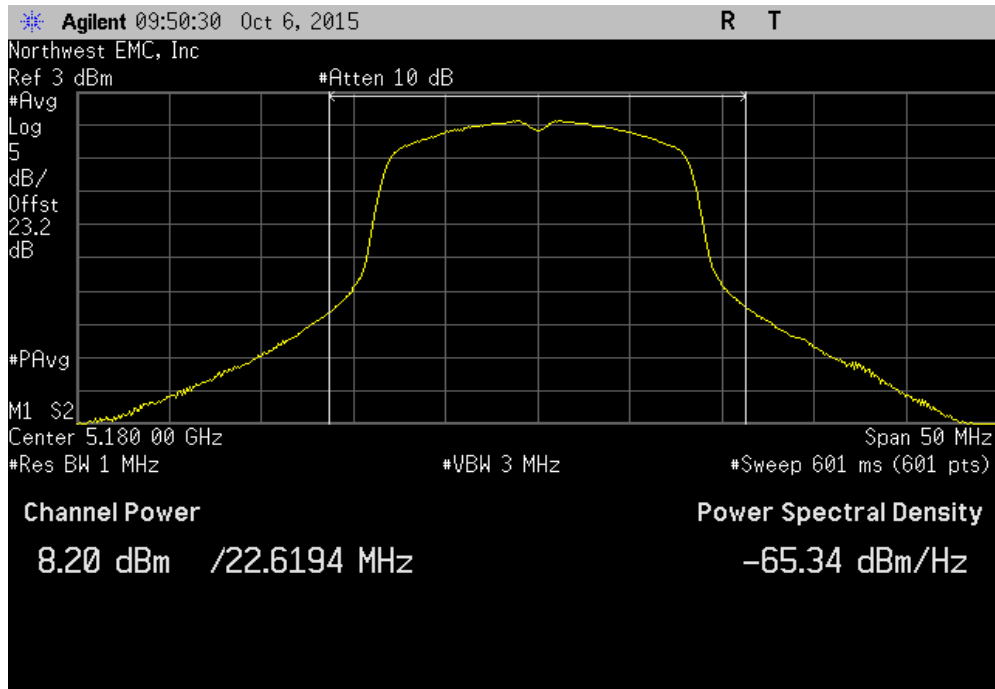


MAXIMUM CONDUCTED OUTPUT POWER

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	

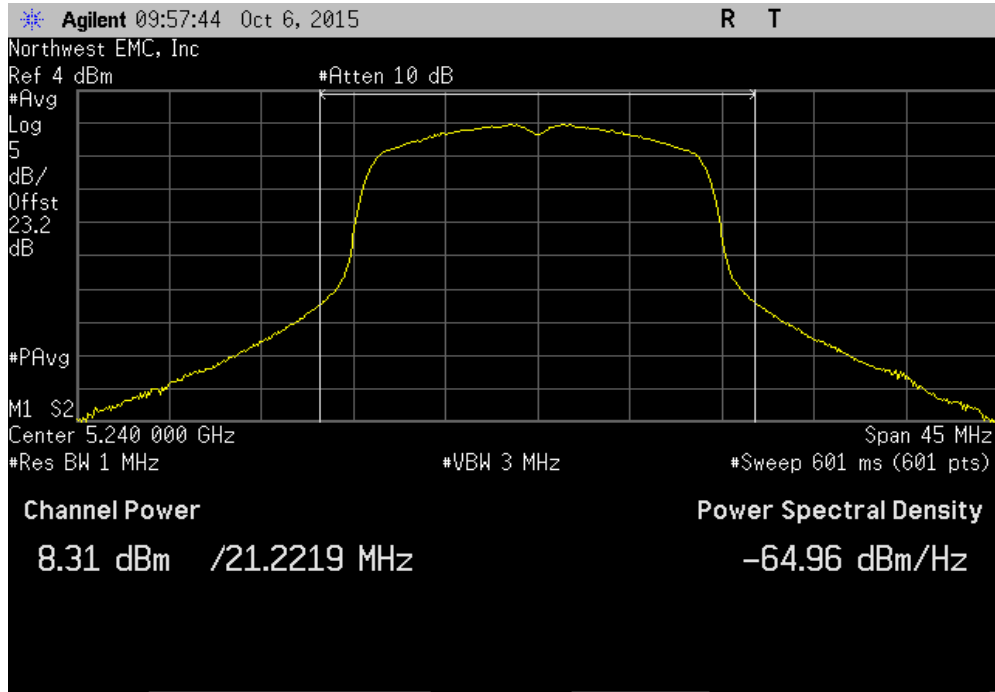


Ant 2, 802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
8.202	5.3	13.5	24	Pass	

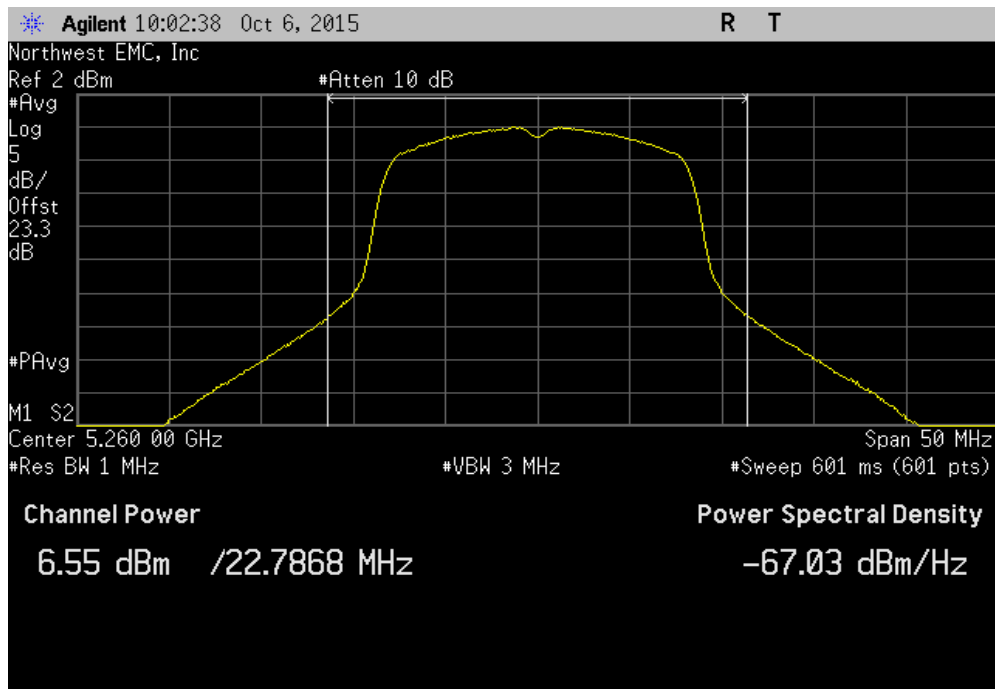


MAXIMUM CONDUCTED OUTPUT POWER

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	

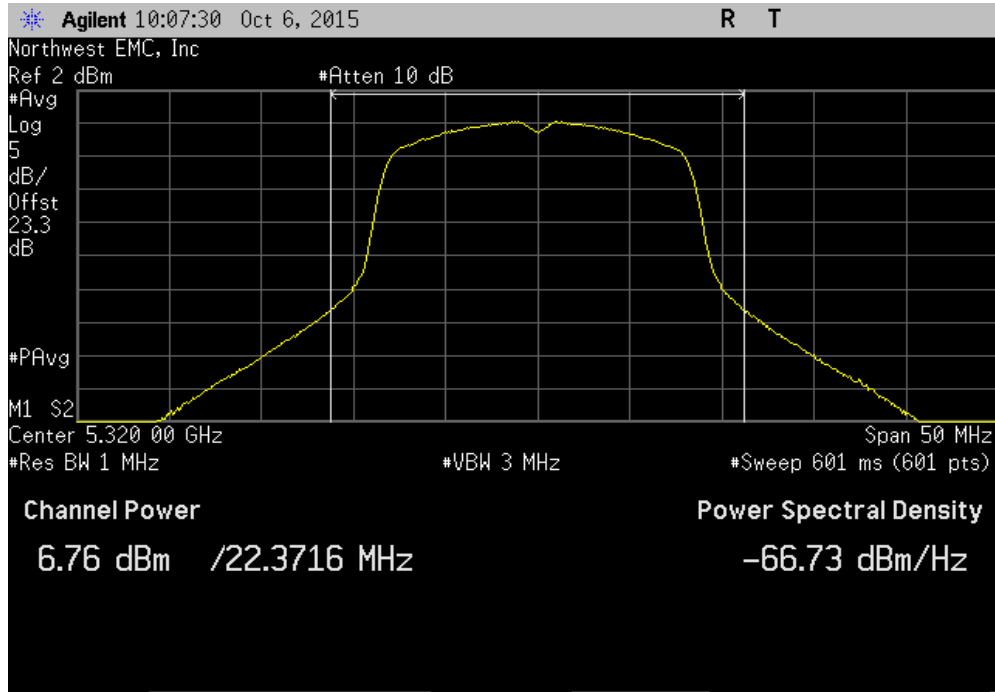


Ant 2, 802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
6.549	5.2	11.8	24	Pass	

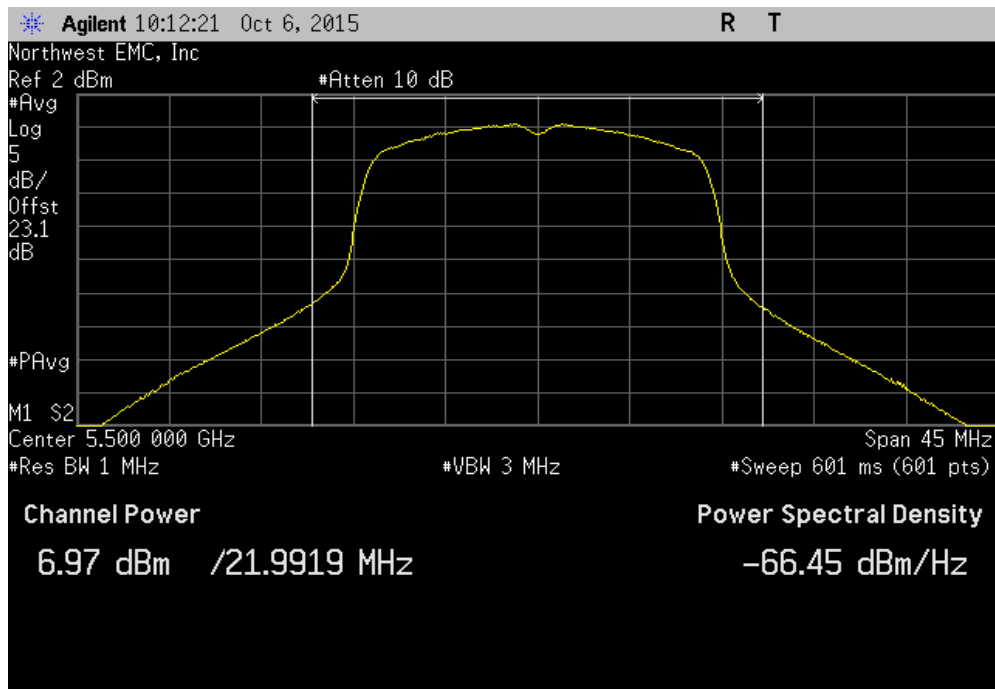


MAXIMUM CONDUCTED OUTPUT POWER

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	

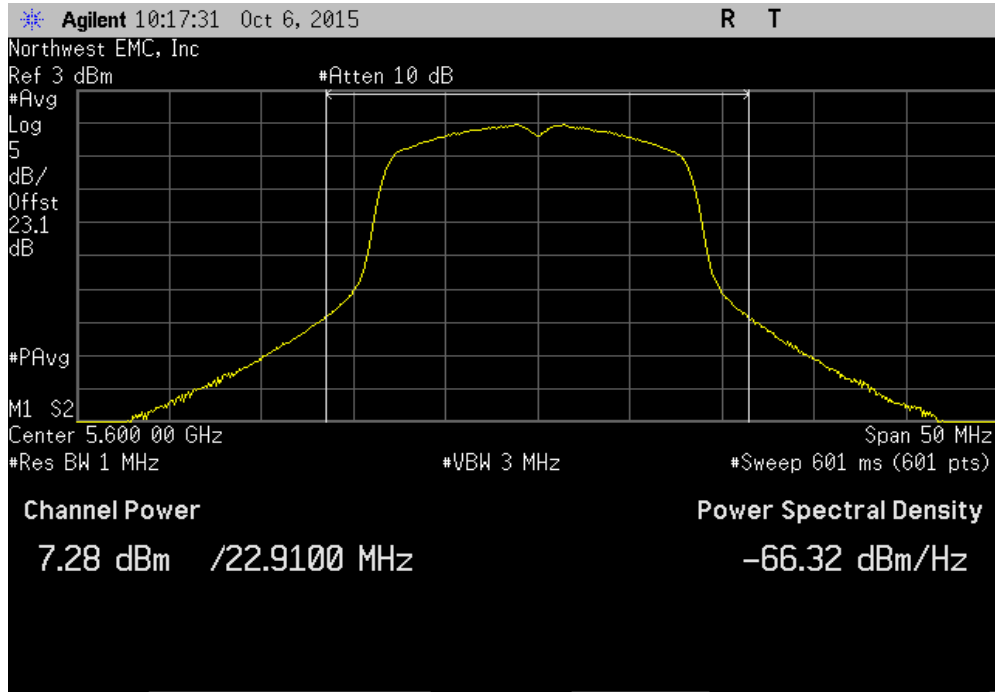


Ant 2, 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
6.968	5.2	12.2	24	Pass	

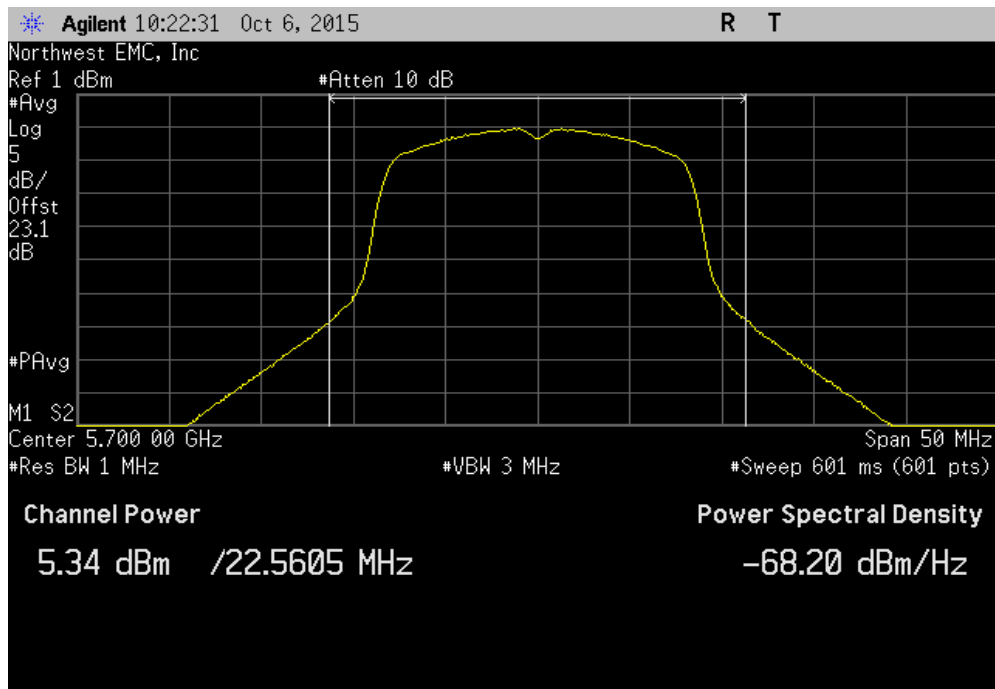


MAXIMUM CONDUCTED OUTPUT POWER

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

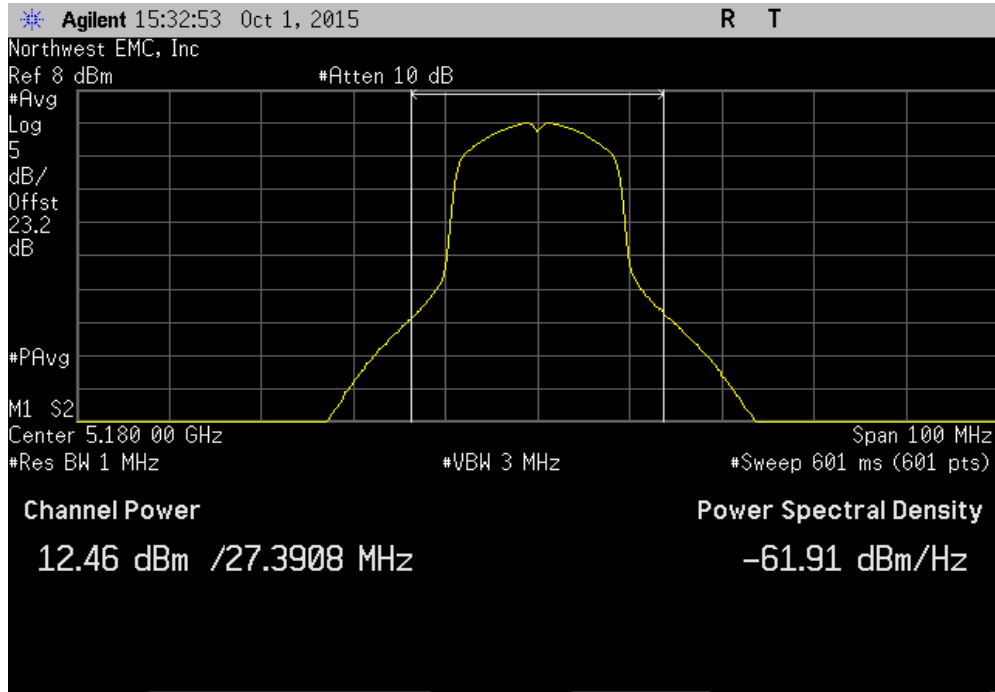


Ant 2, 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
5.335	5.3	10.6	24	Pass	

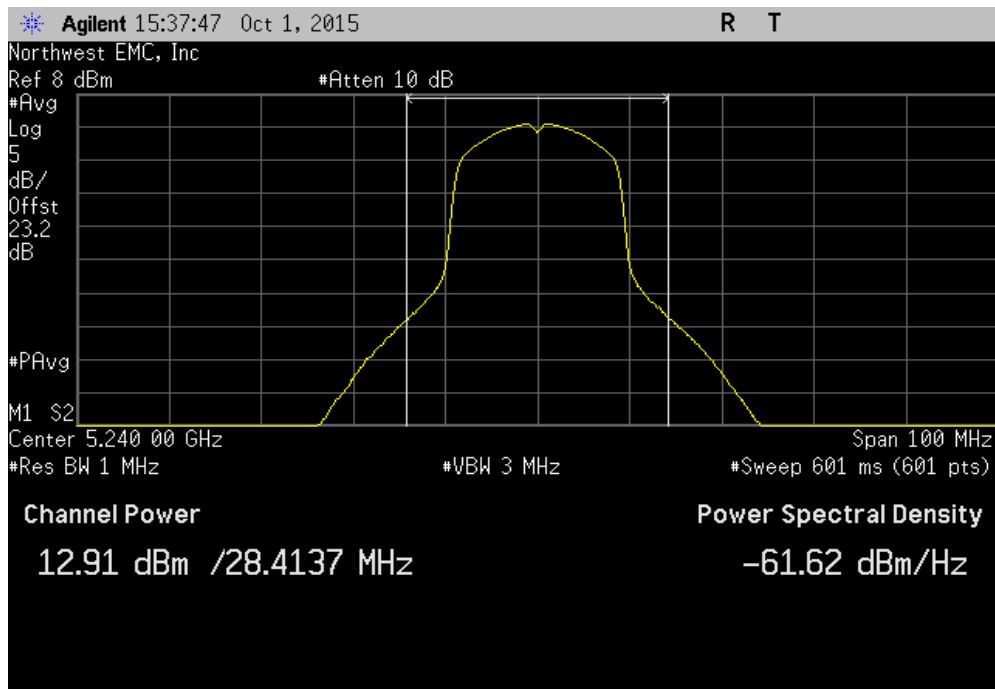


MAXIMUM CONDUCTED OUTPUT POWER

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

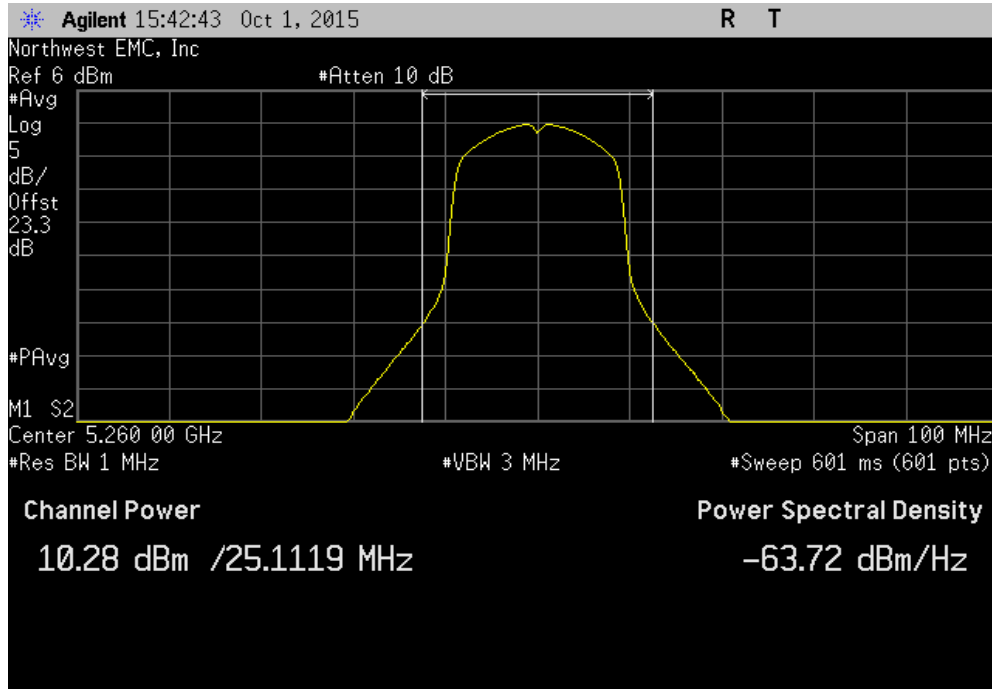


Ant 2, 802.11(n) MCS0, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
12.913	1.2	14.1	24	Pass	

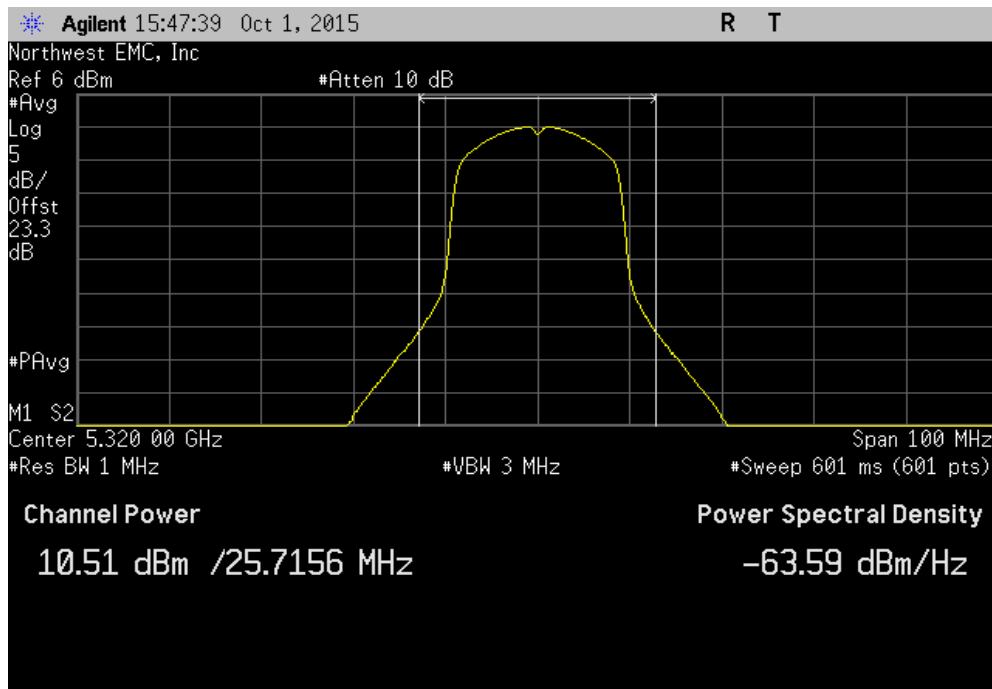


MAXIMUM CONDUCTED OUTPUT POWER

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	

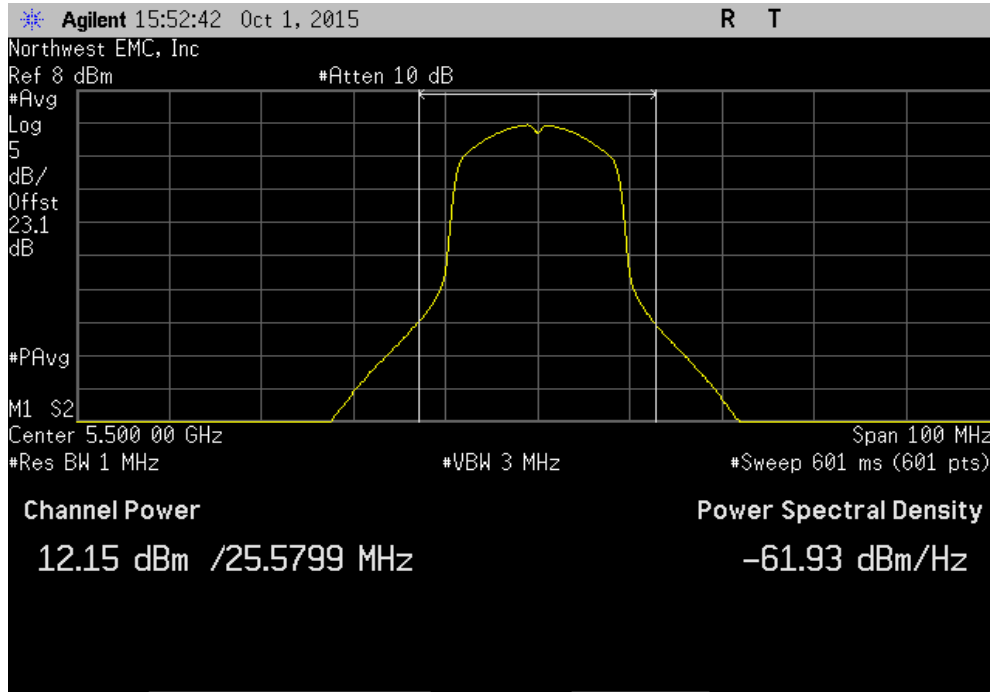


Ant 2, 802.11(n) MCS0, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
10.511	1.2	11.7	24	Pass	

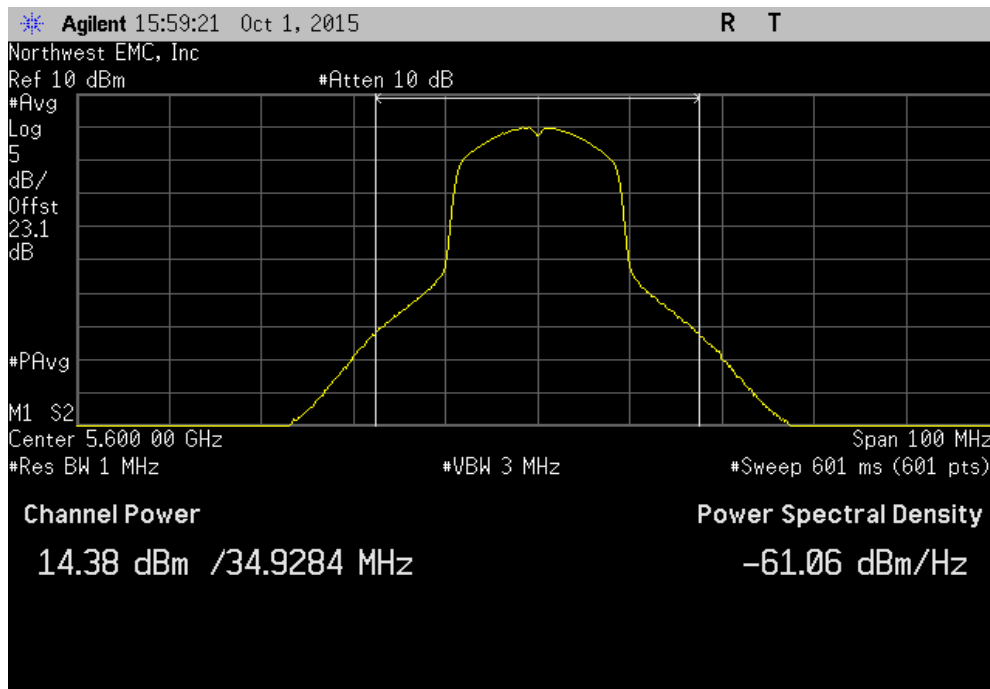


MAXIMUM CONDUCTED OUTPUT POWER

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	

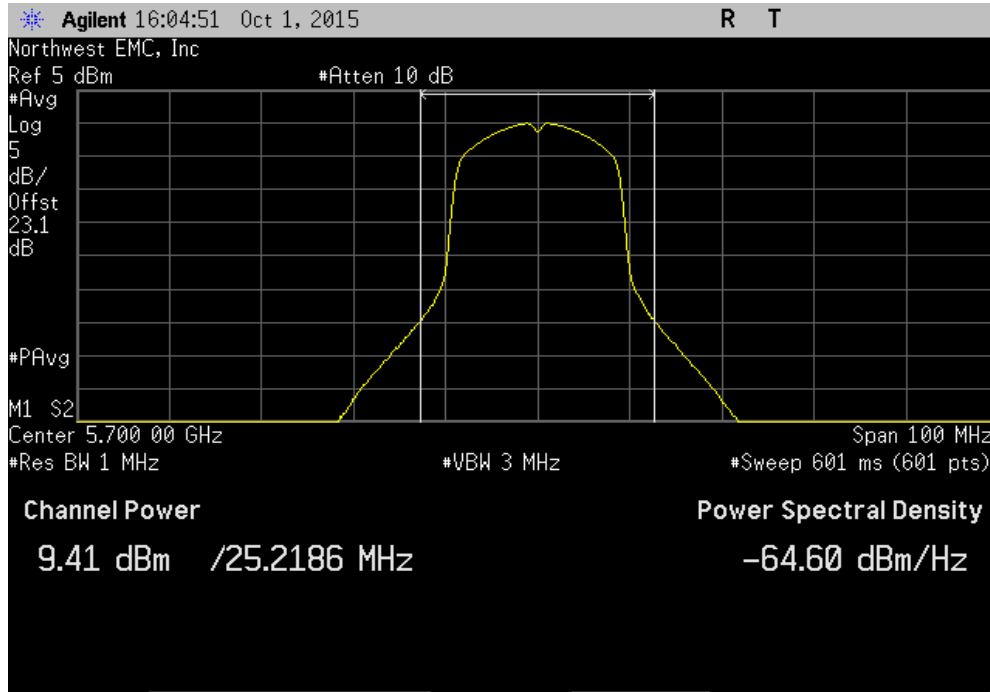


Ant 2, 802.11(n) MCS0, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
14.377	1.2	15.6	24	Pass	

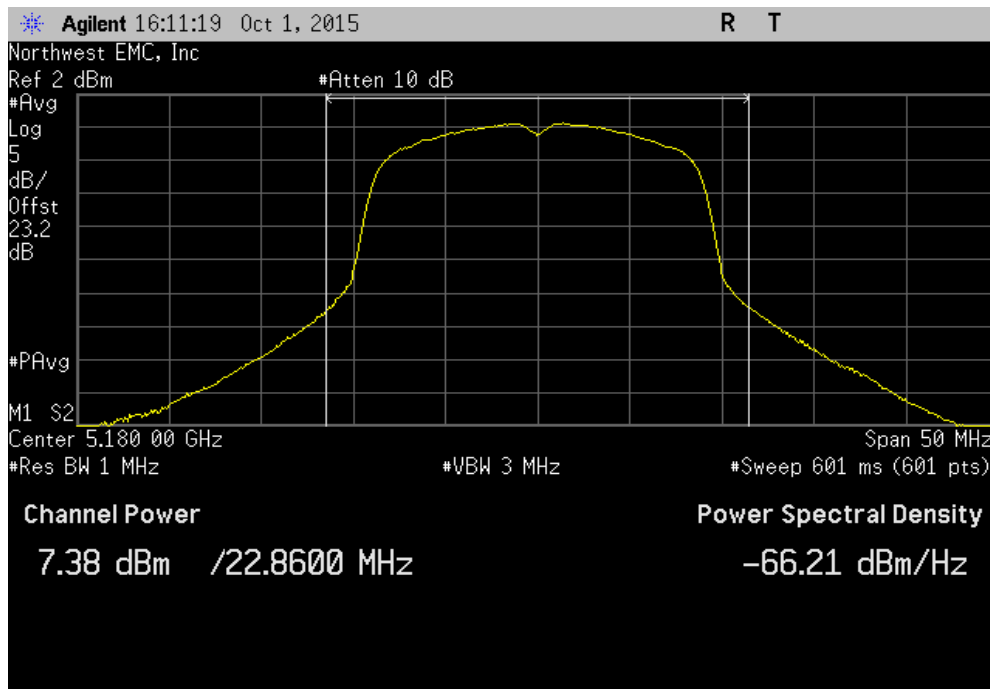


MAXIMUM CONDUCTED OUTPUT POWER

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

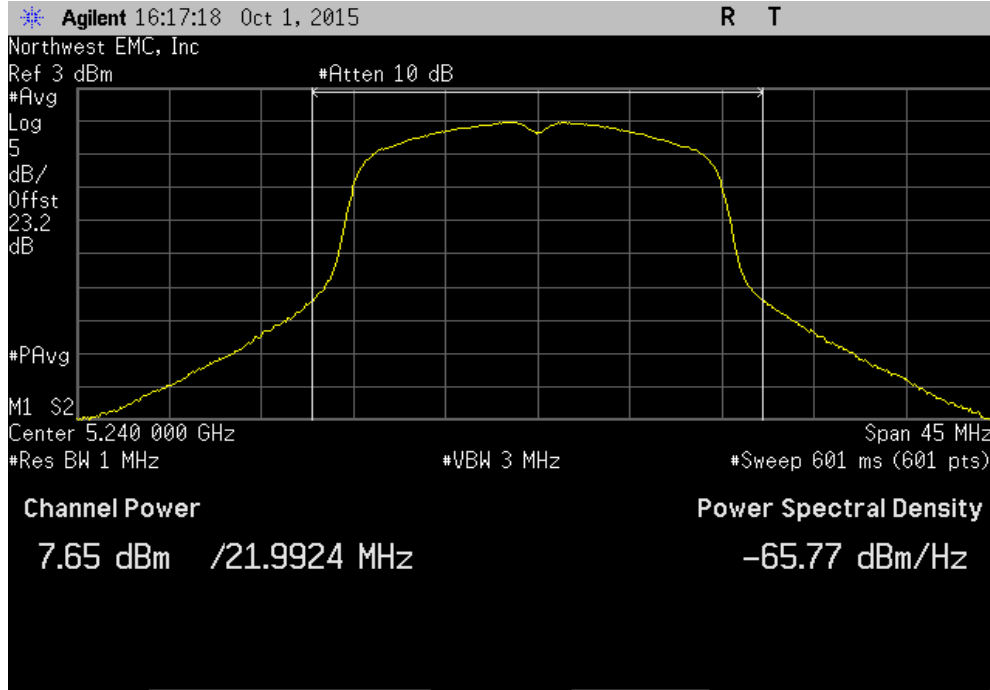


Ant 2, 802.11(n) MCS7, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
7.385	5.5	12.9	24	Pass	

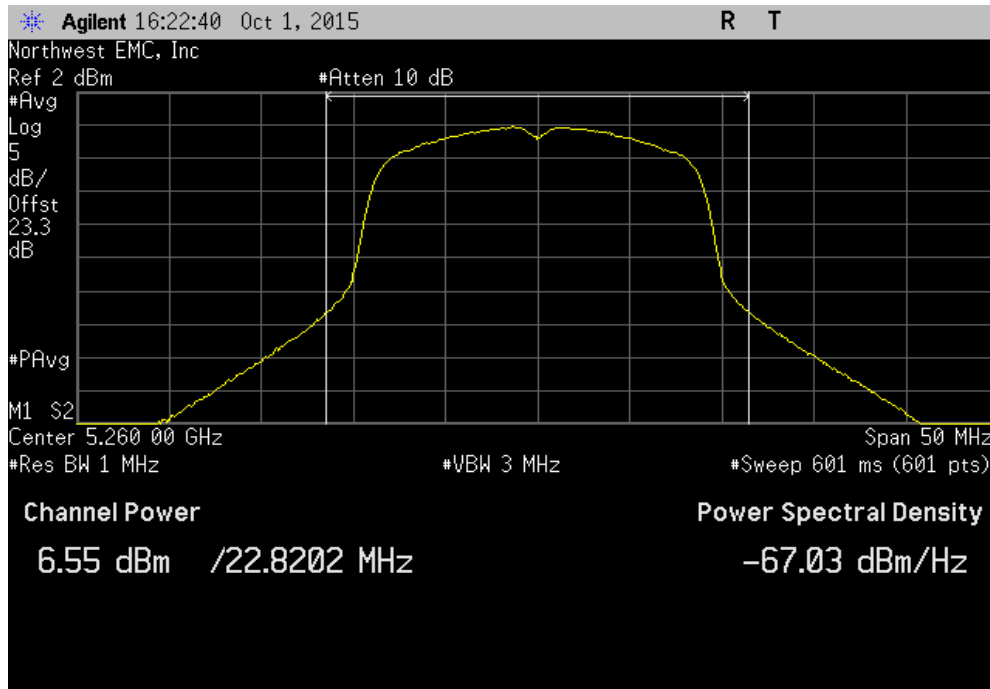


MAXIMUM CONDUCTED OUTPUT POWER

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	

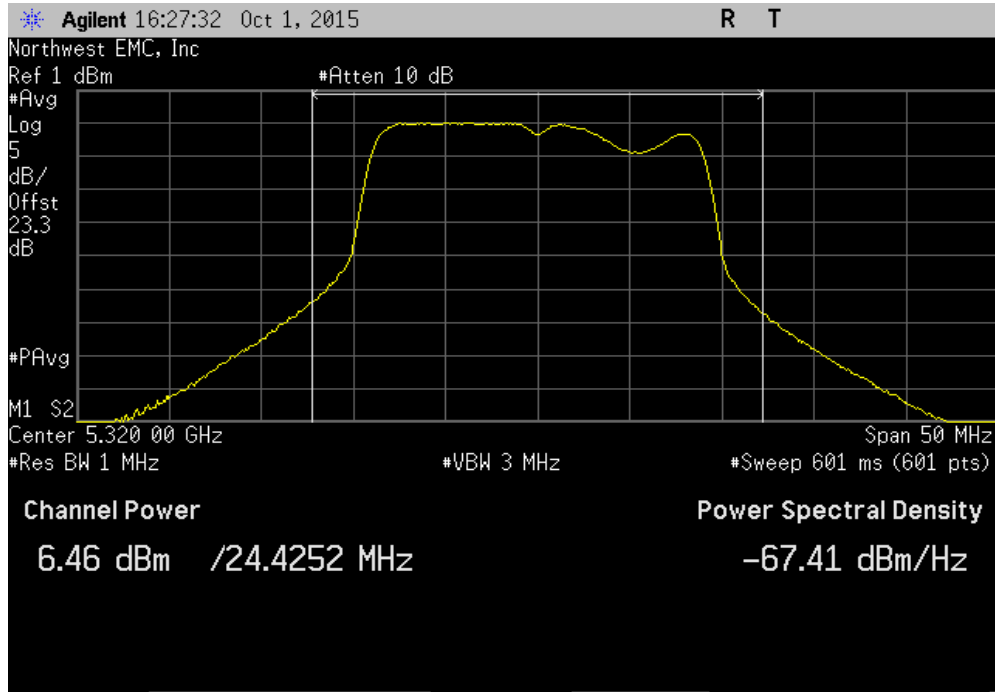


Ant 2, 802.11(n) MCS7, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
6.552	5.5	12	24	Pass	

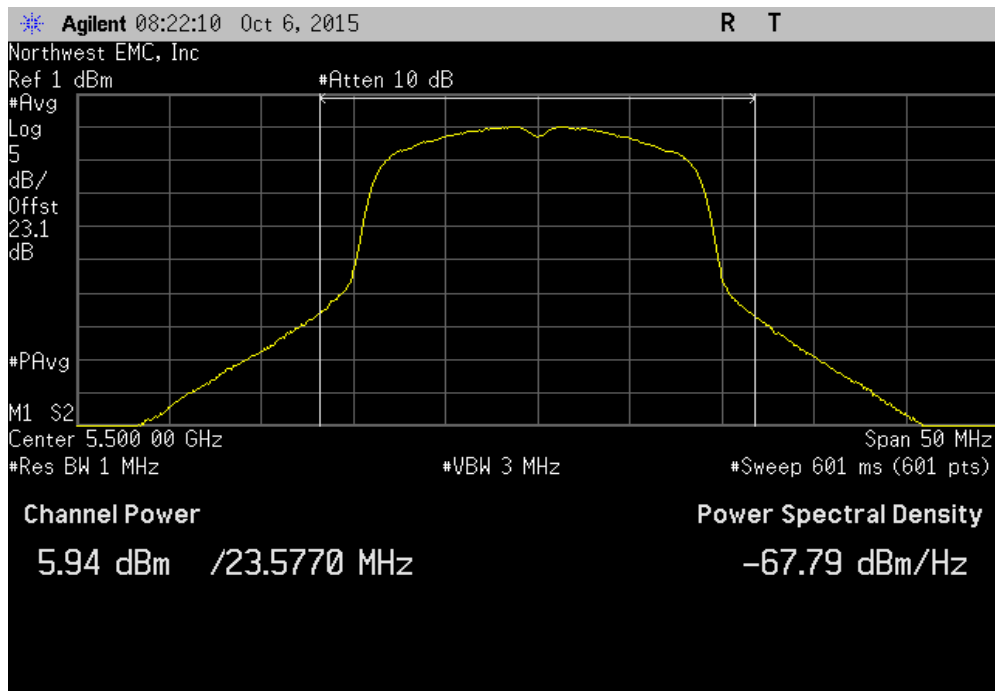


MAXIMUM CONDUCTED OUTPUT POWER

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	

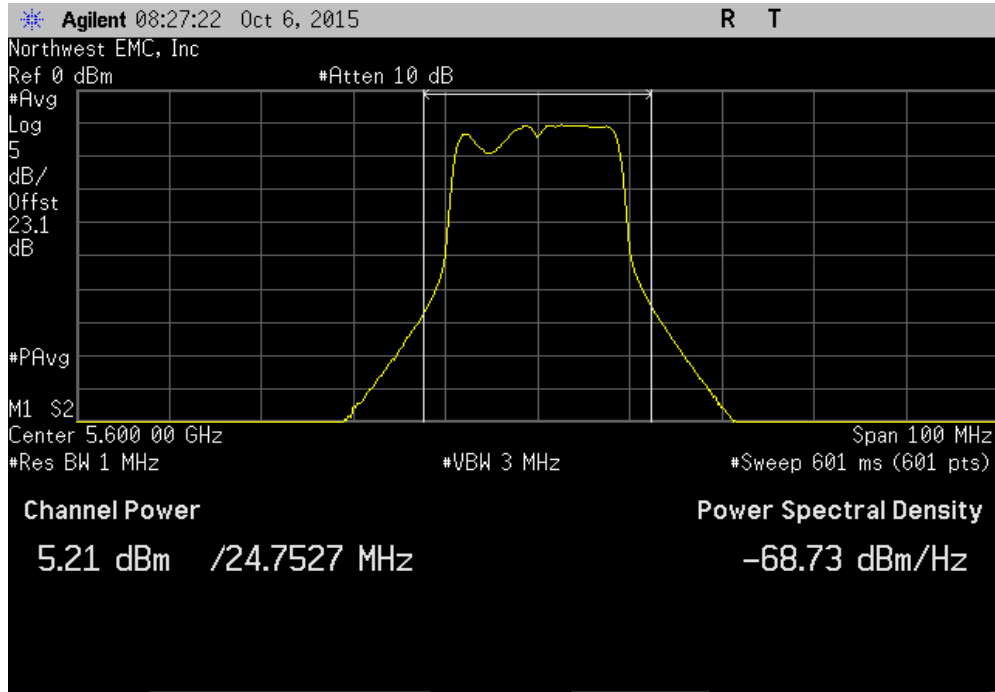


Ant 2, 802.11(n) MCS7, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
5.939	5.5	11.4	24	Pass	

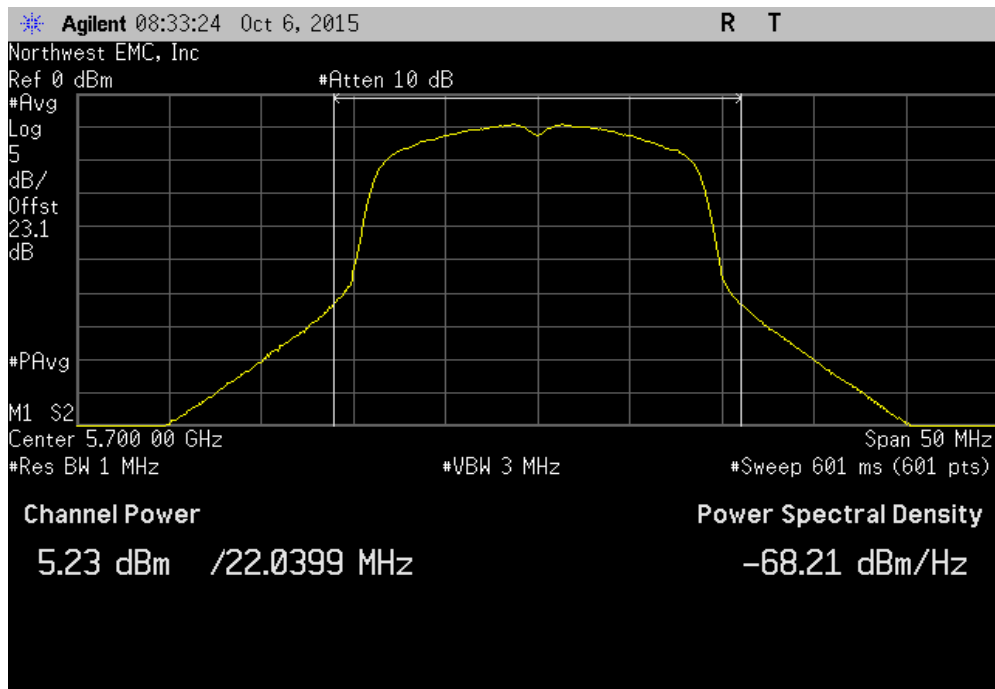


MAXIMUM CONDUCTED OUTPUT POWER

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 $10 \cdot \text{LOG}(1/D)$ where D is the duty cycle.

MAXIMUM CONDUCTED OUTPUT POWER

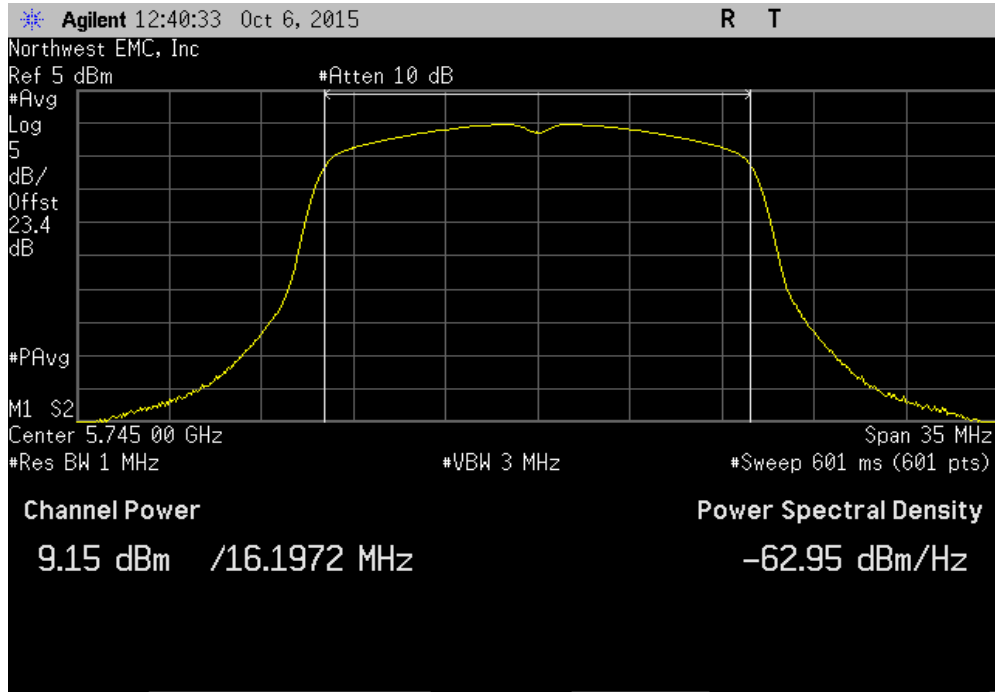


XMtr 2015.01.14

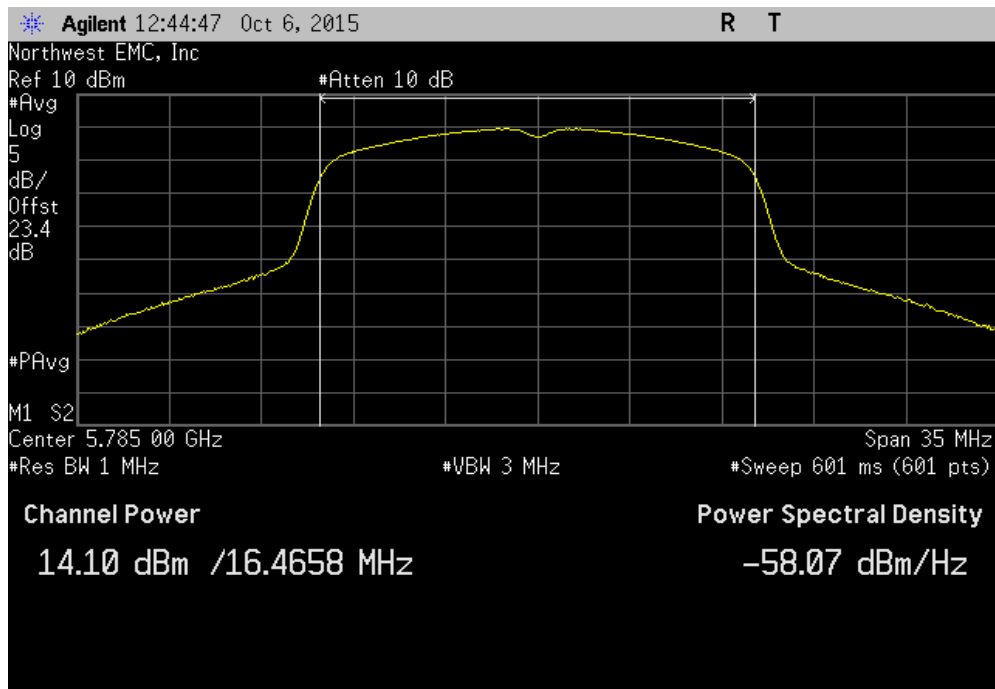
EUT: Precor Wi-Fi / Bluetooth Module Model 303346		Work Order: PRCR0230				
Serial Number: None		Date: 10/06/15				
Customer: Precor, Inc.		Temperature: 23°C				
Attendees: Rich Whitbeck		Humidity: 46%				
Project: None		Barometric Pres.: 1015mb				
Tested by: Richard Mellroth		Power: 110VAC/60Hz				
Job Site: NC02		Test Method				
FCC 15.407:2015		ANSI C63.10:2013				
COMMENTS						
Power settings at Maximum.						
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #	1	Signature <i>Rust</i>				
		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	

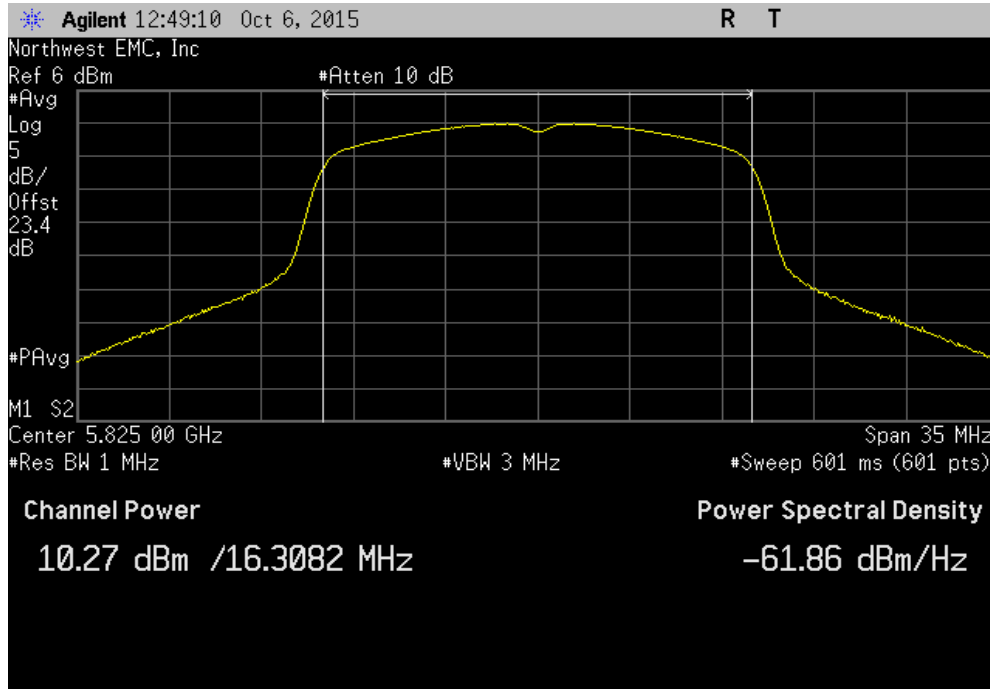


Ant 1, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
14.098	1.1	15.2	30	Pass	

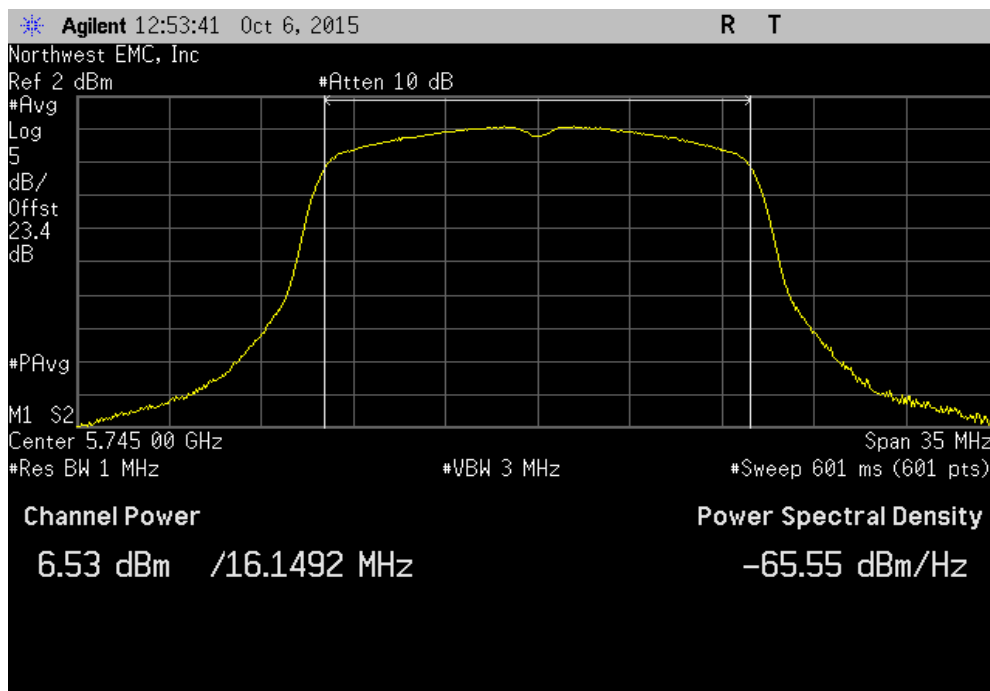


MAXIMUM CONDUCTED OUTPUT POWER

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

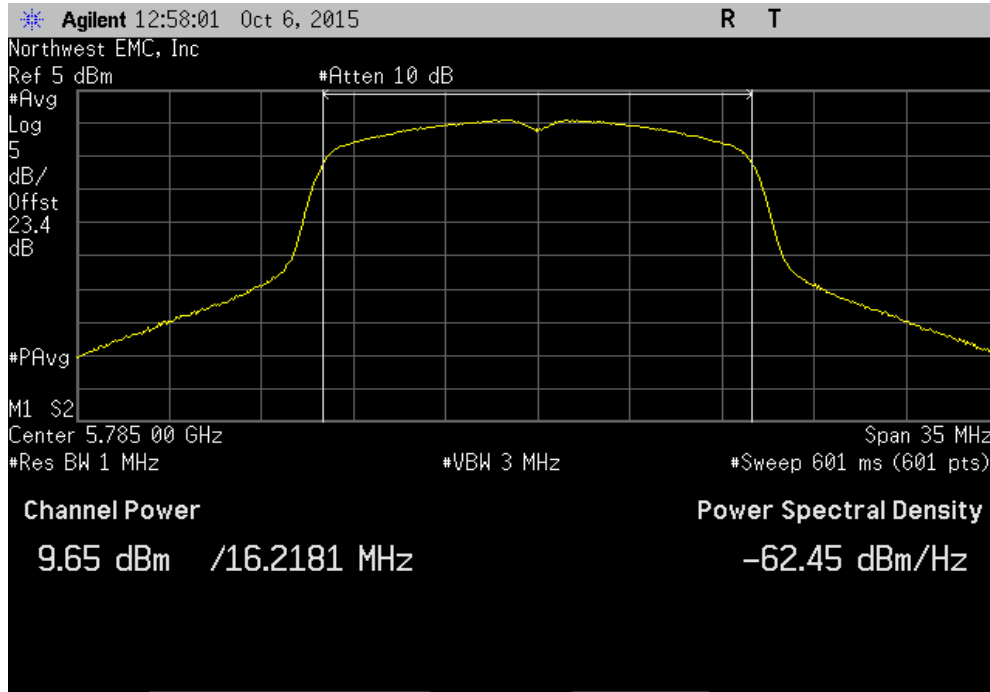


Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
6.529	4.2	10.8	30	Pass	

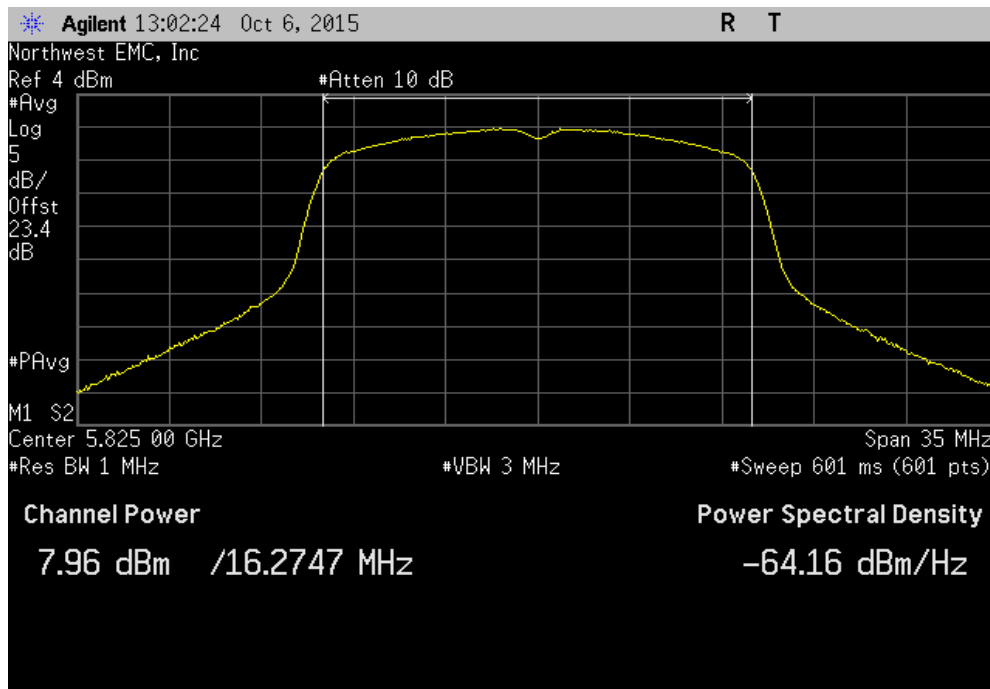


MAXIMUM CONDUCTED OUTPUT POWER

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

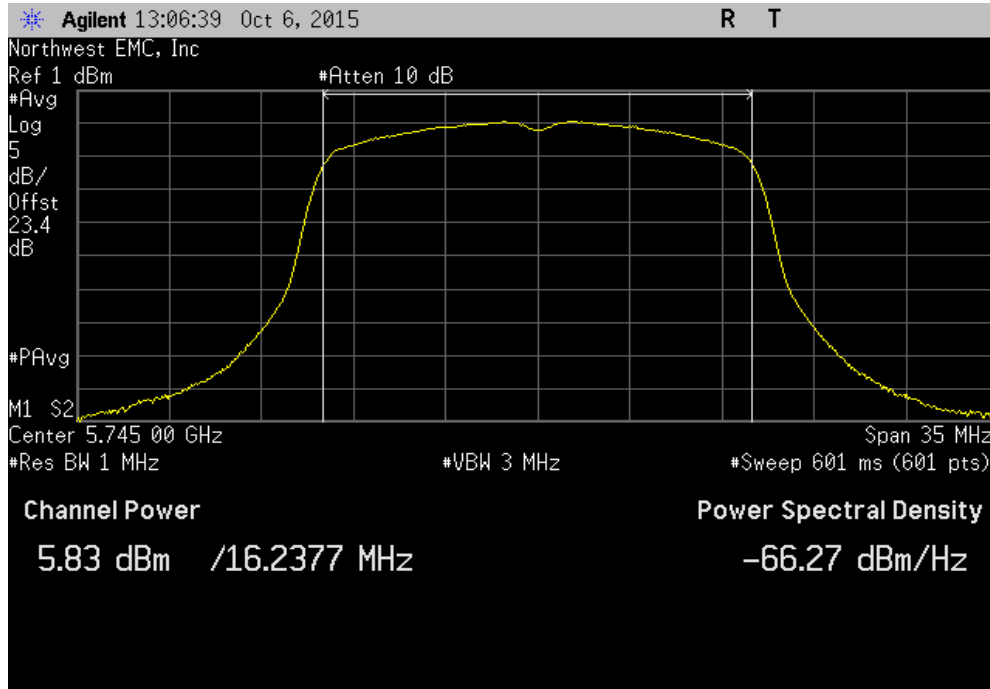


Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results		
7.957	4.2	12.1	30	Pass		

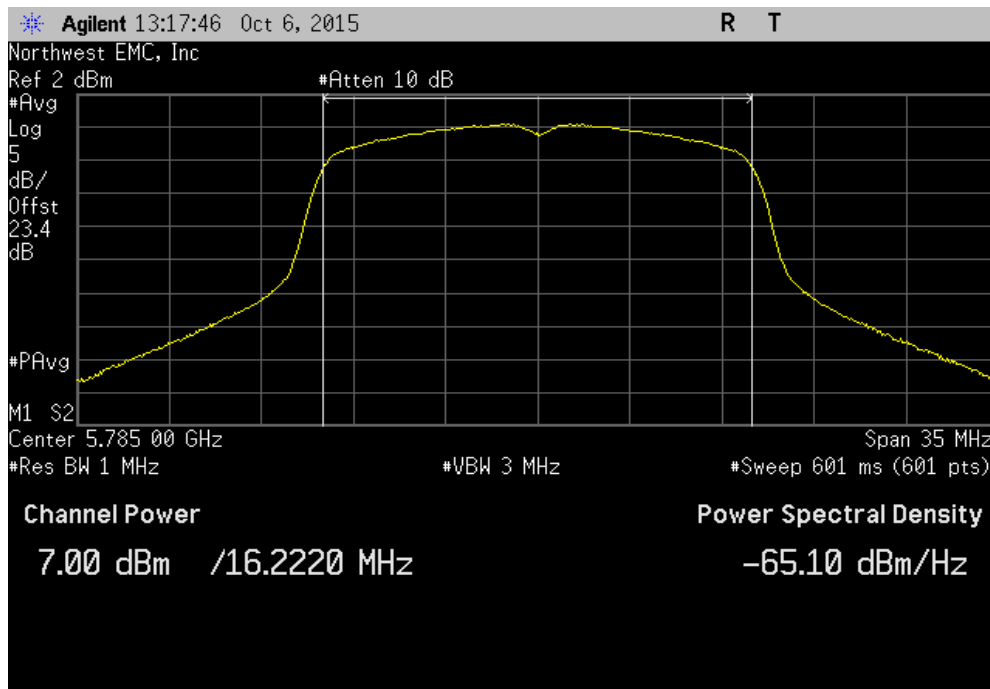


MAXIMUM CONDUCTED OUTPUT POWER

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

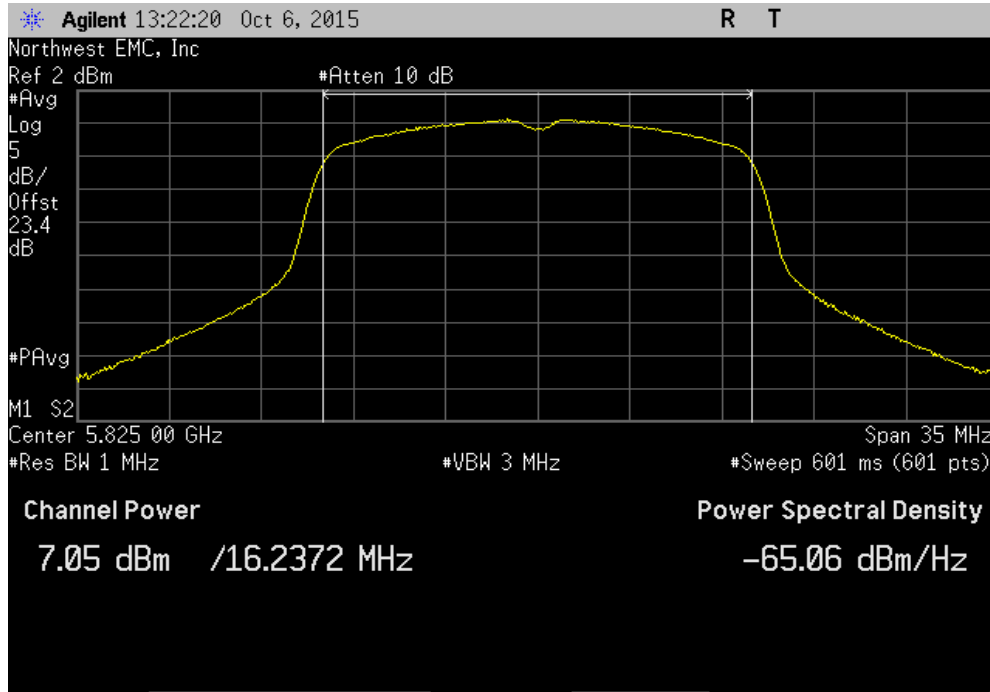


Ant 1, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
7.004	5.2	12.2	30	Pass	

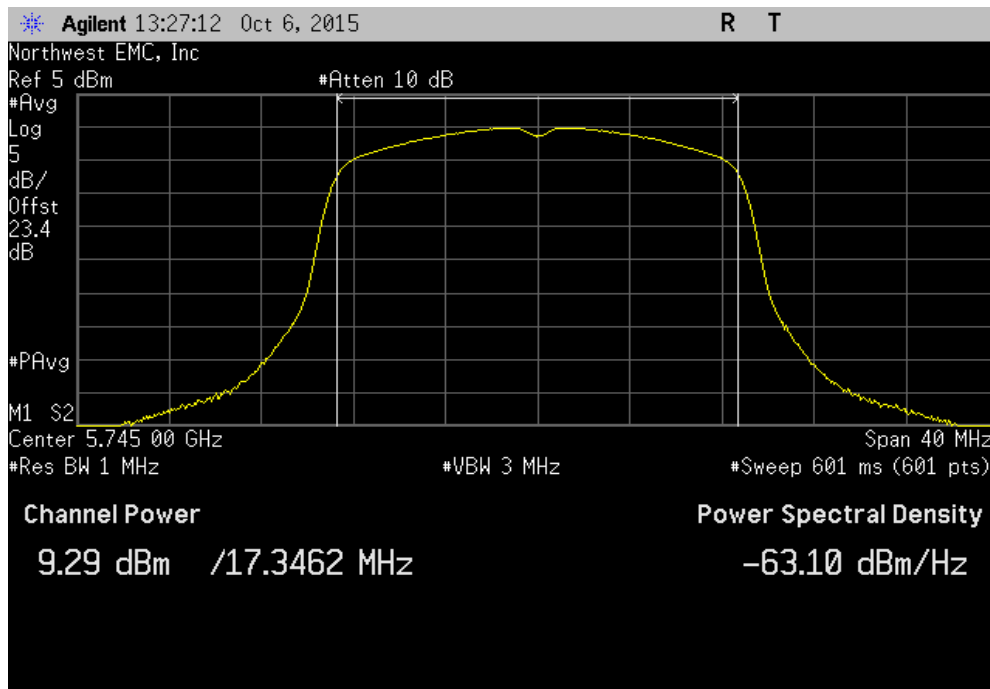


MAXIMUM CONDUCTED OUTPUT POWER

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	

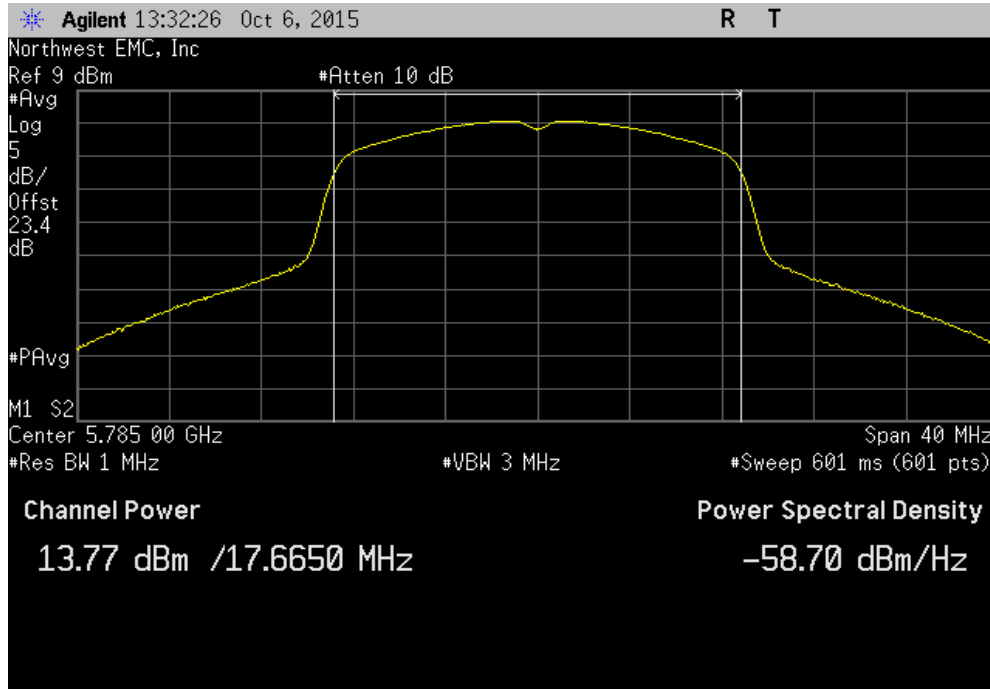


Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
9.293	1.2	10.5	30	Pass	

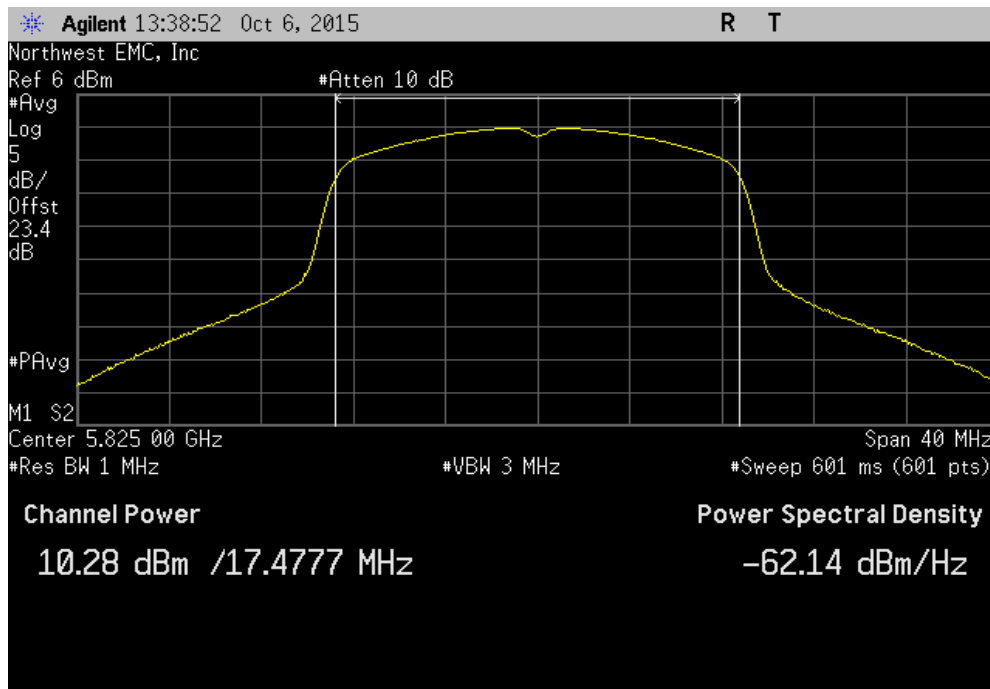


MAXIMUM CONDUCTED OUTPUT POWER

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	

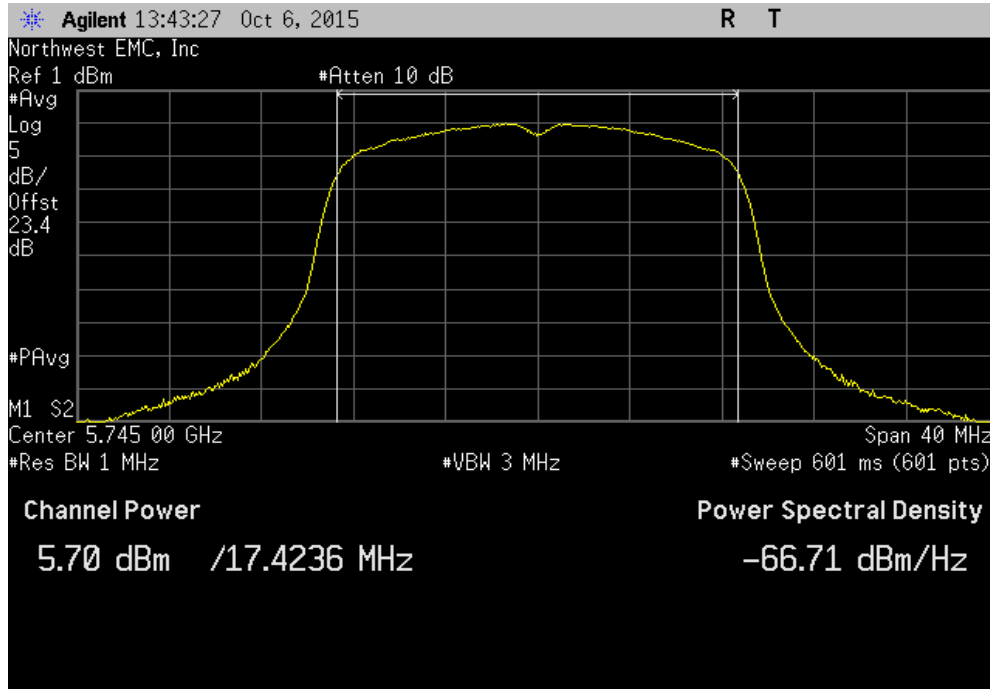


Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
10.28	1.2	11.4	30	Pass	

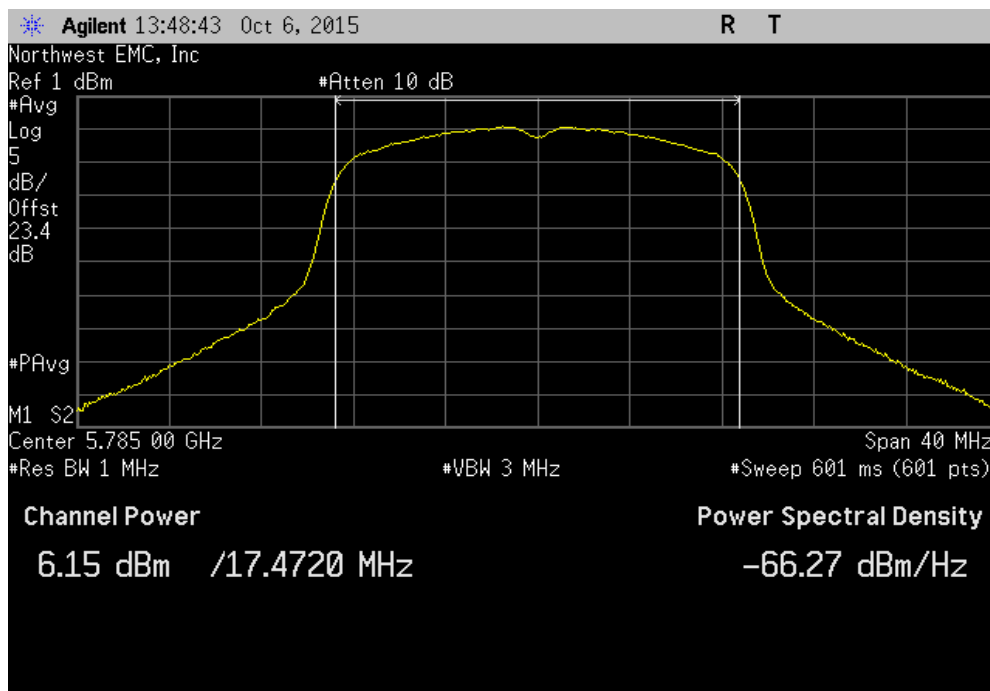


MAXIMUM CONDUCTED OUTPUT POWER

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	

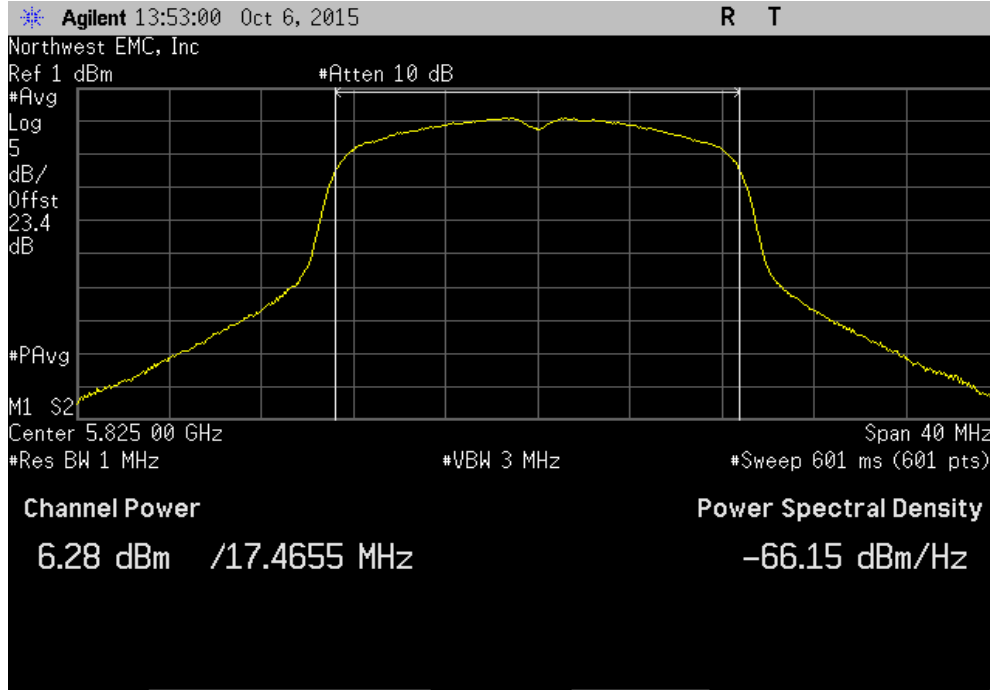


Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
6.151	5.5	11.6	30	Pass	

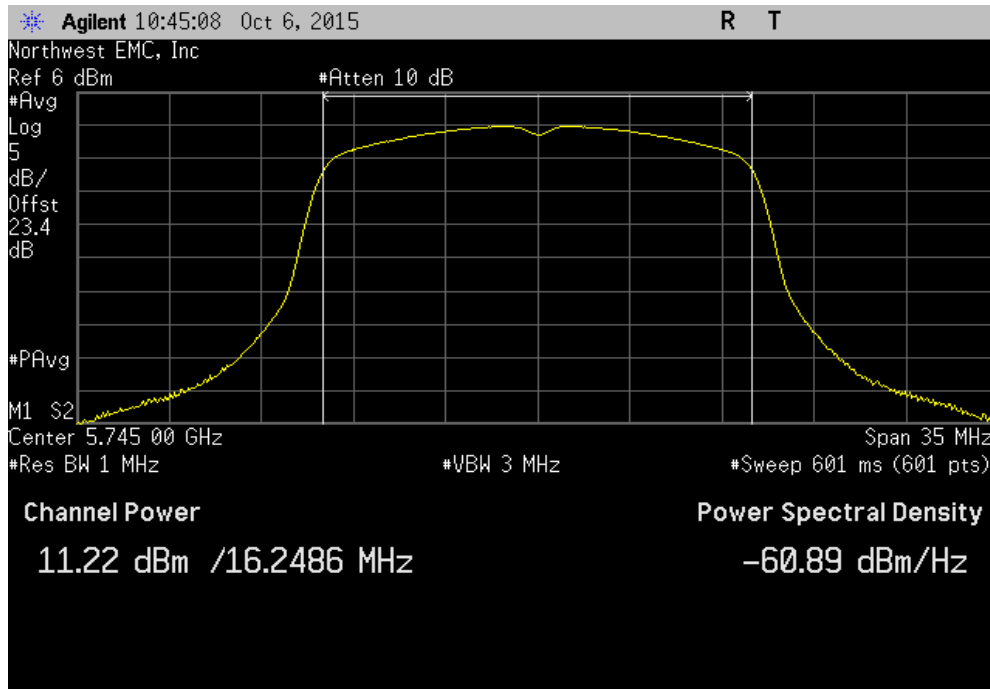


MAXIMUM CONDUCTED OUTPUT POWER

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	

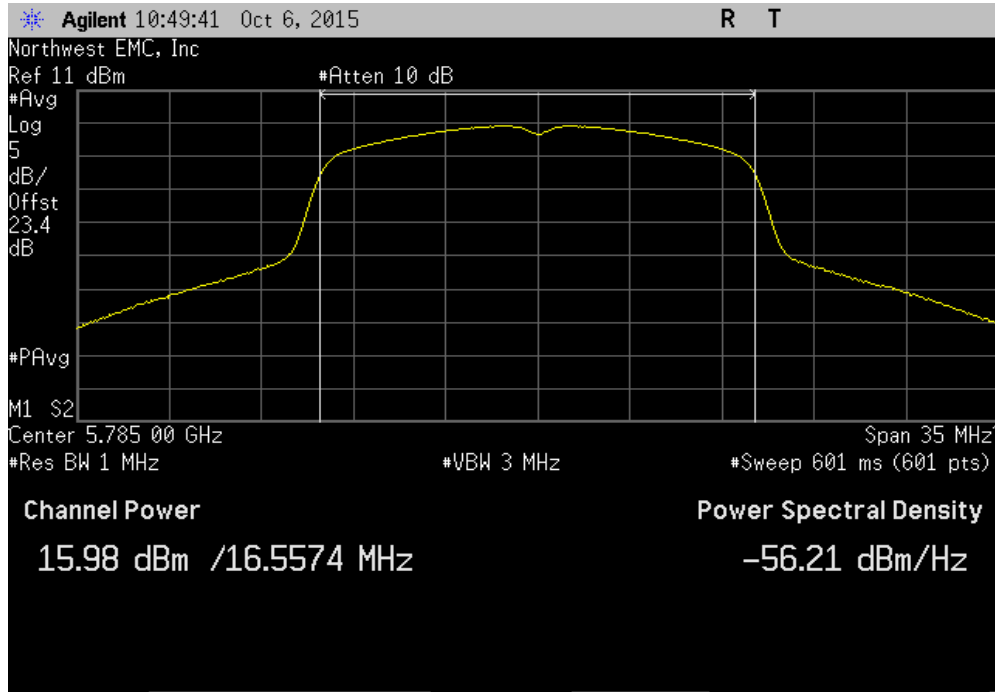


Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
11.219	1.1	12.3	30	Pass	

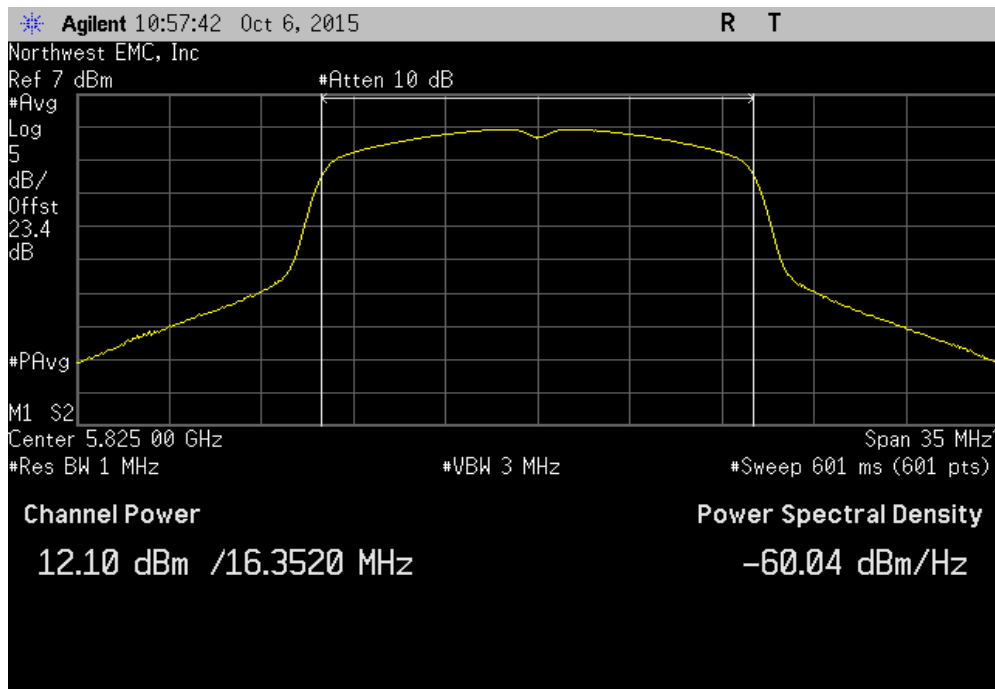


MAXIMUM CONDUCTED OUTPUT POWER

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	

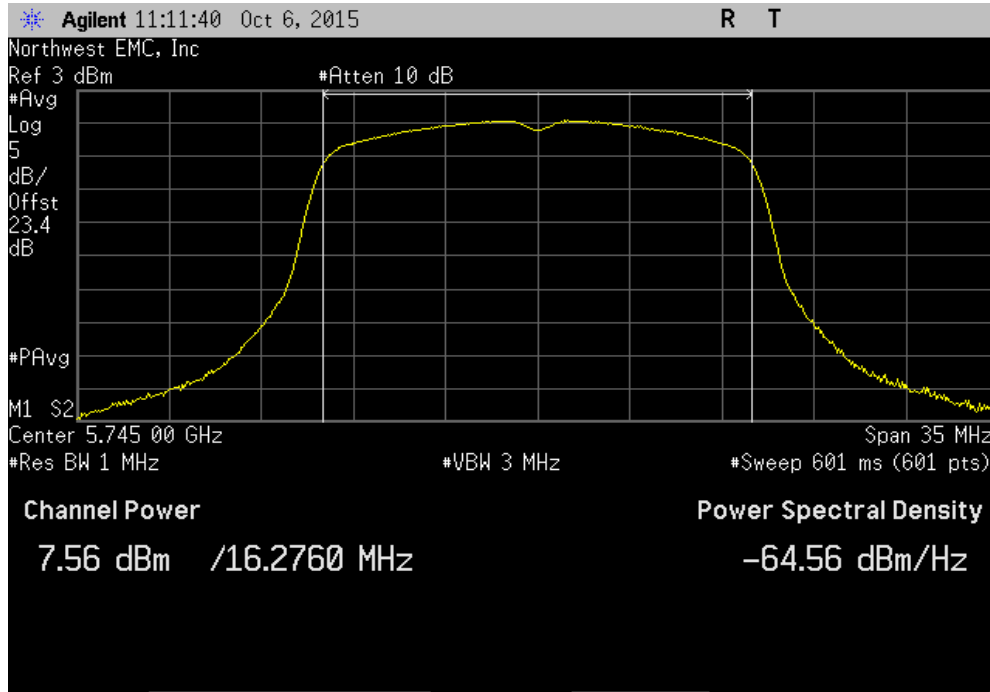


Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
12.099	1.1	13.2	30	Pass	

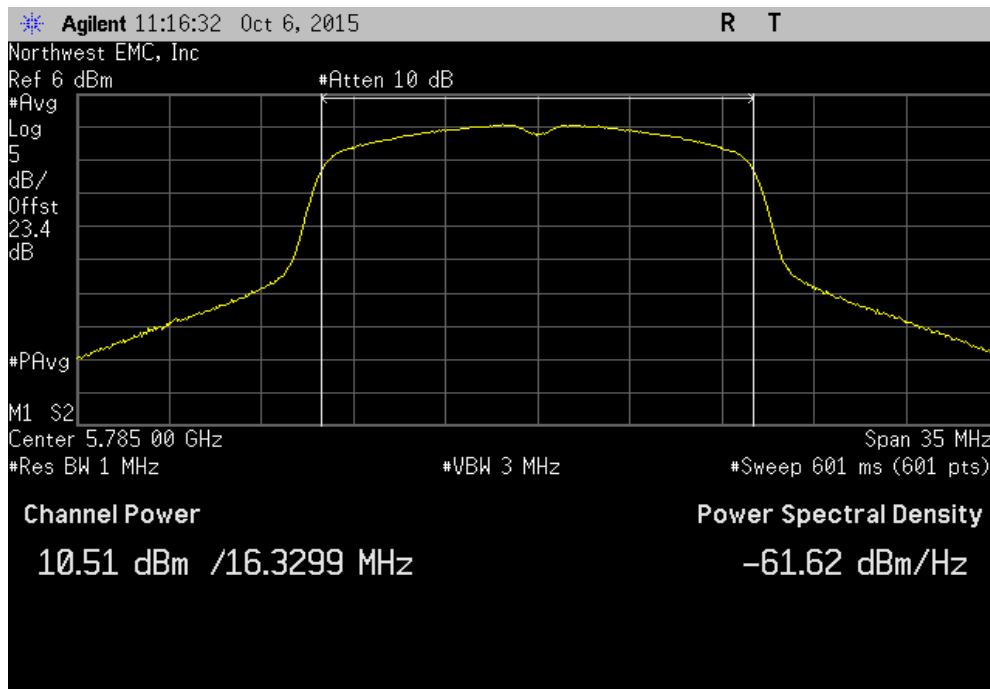


MAXIMUM CONDUCTED OUTPUT POWER

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

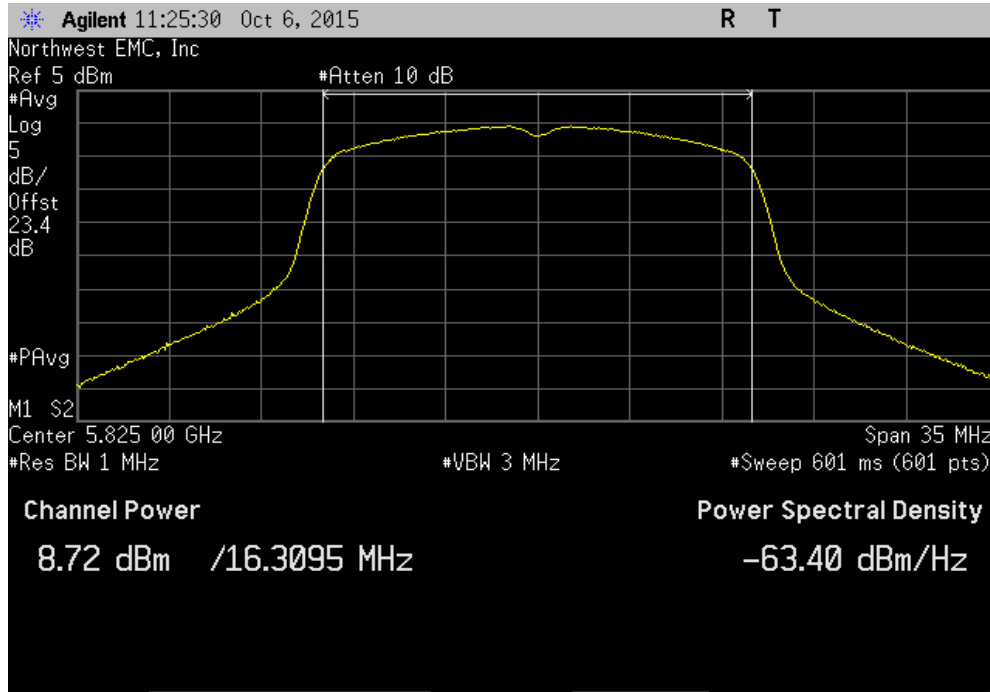


Ant 2, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
10.515	4.2	14.8	30	Pass	

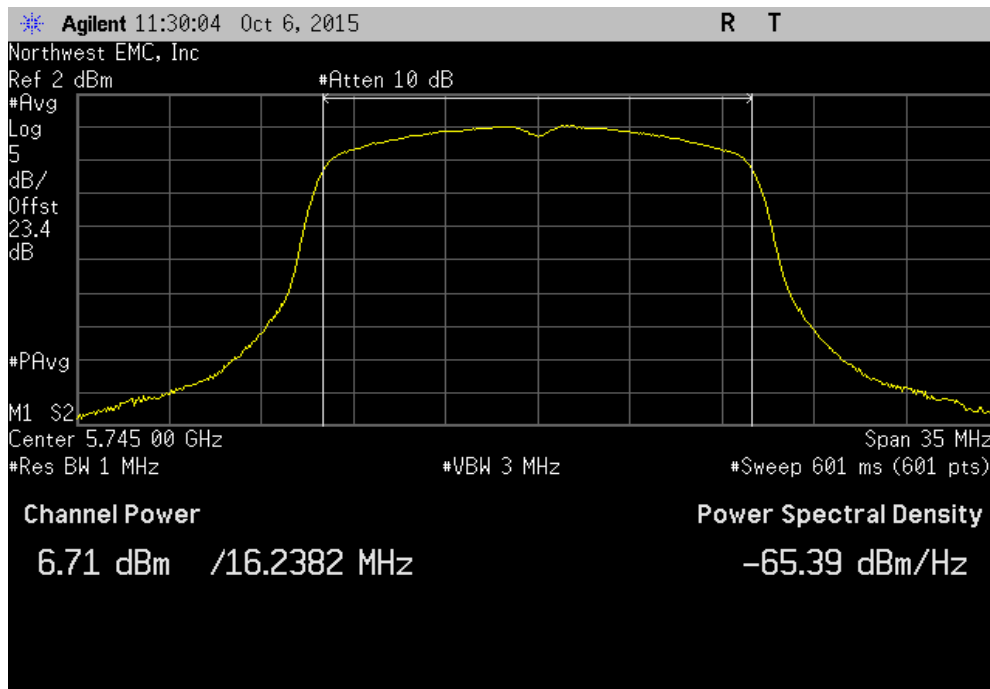


MAXIMUM CONDUCTED OUTPUT POWER

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

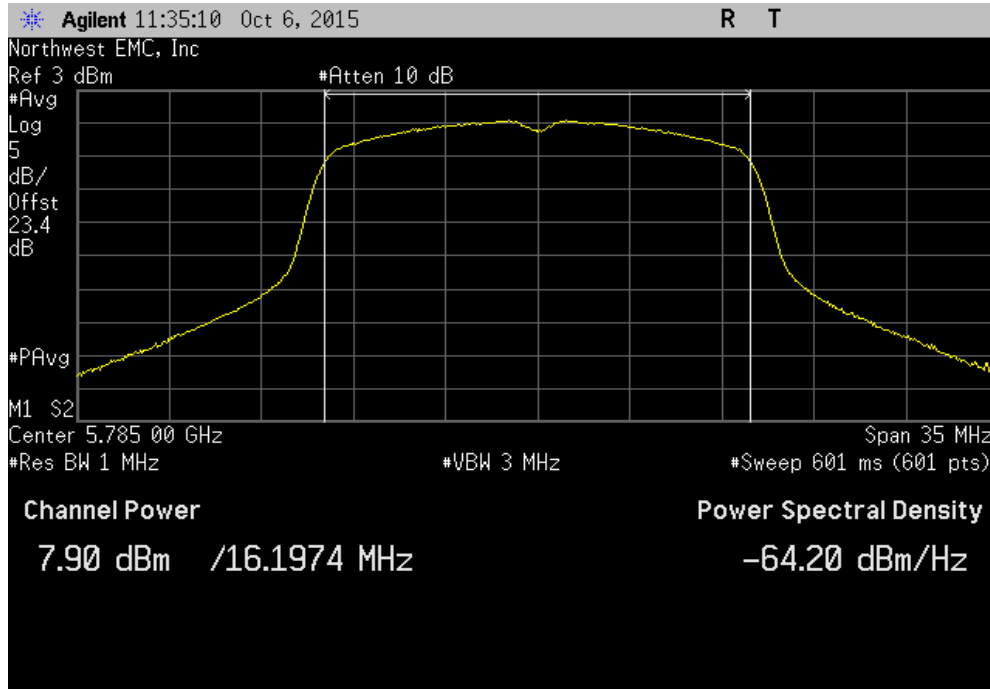


Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
6.714	5.2	11.9	30	Pass	

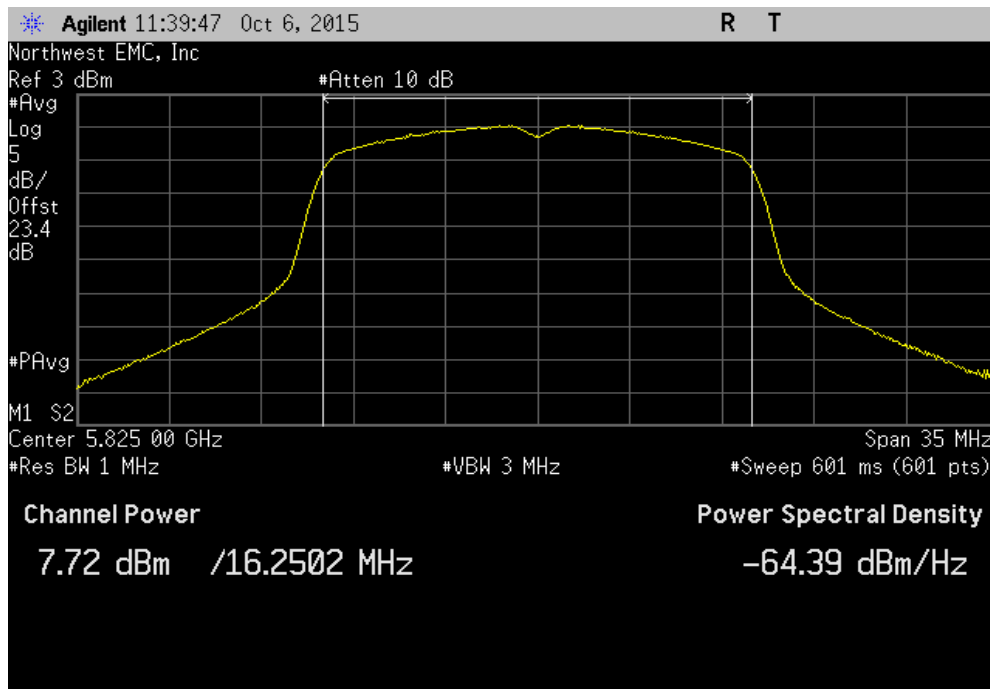


MAXIMUM CONDUCTED OUTPUT POWER

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	

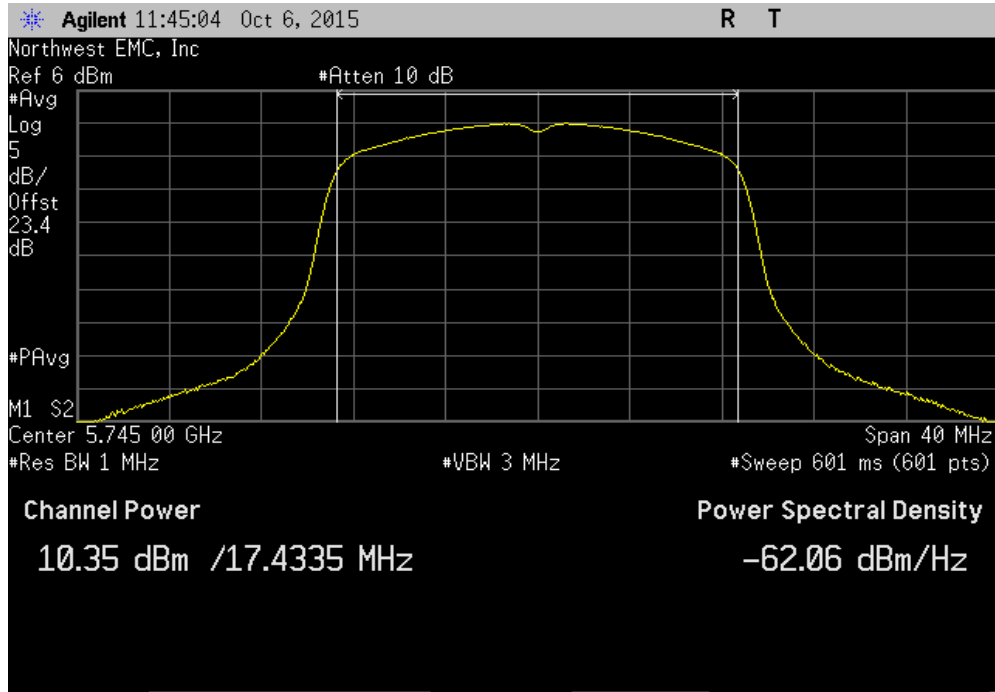


Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
7.719	5.3	13	30	Pass	

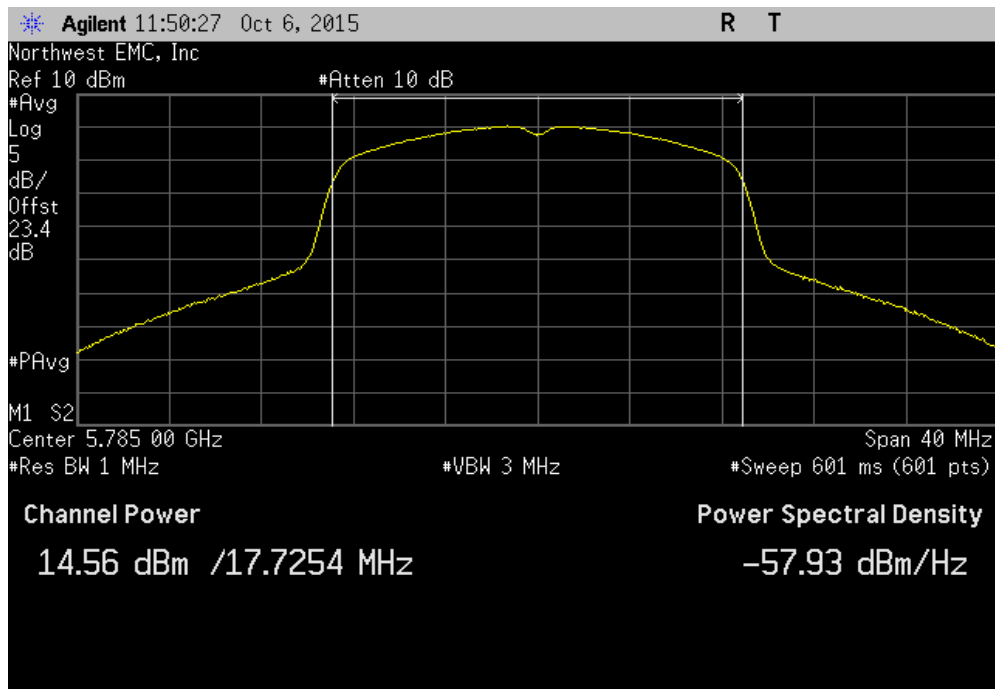


MAXIMUM CONDUCTED OUTPUT POWER

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	

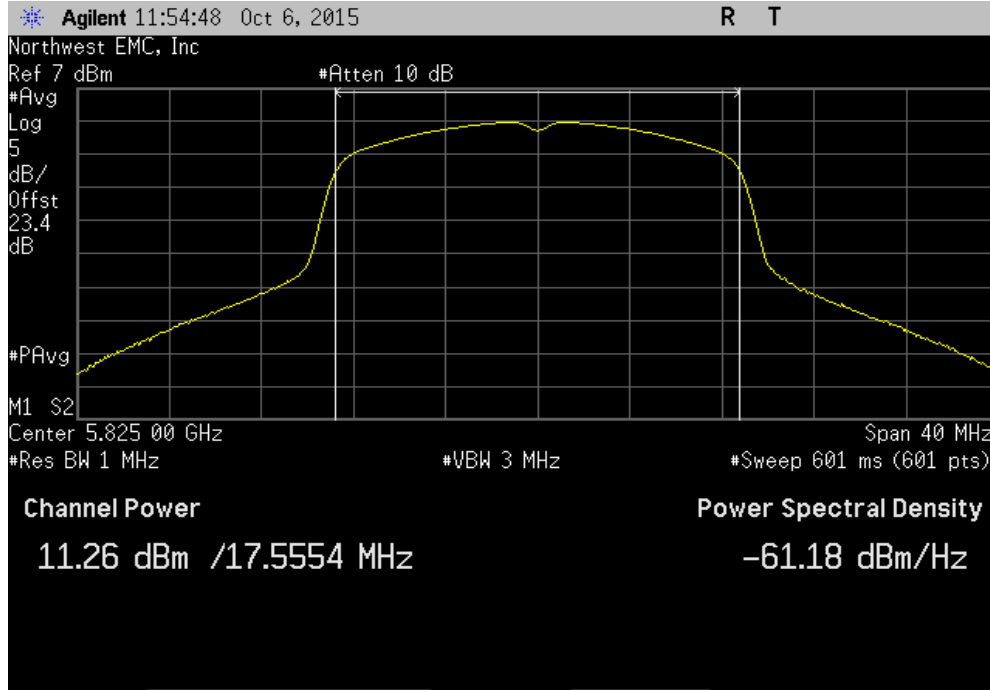


Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
14.556	1.2	15.7	30	Pass	

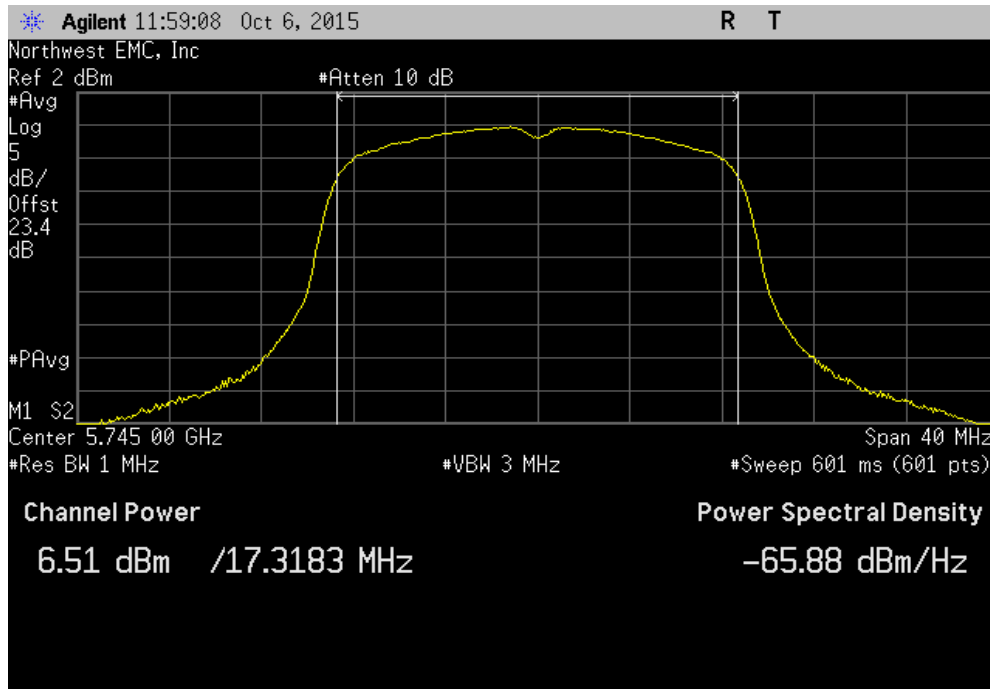


MAXIMUM CONDUCTED OUTPUT POWER

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

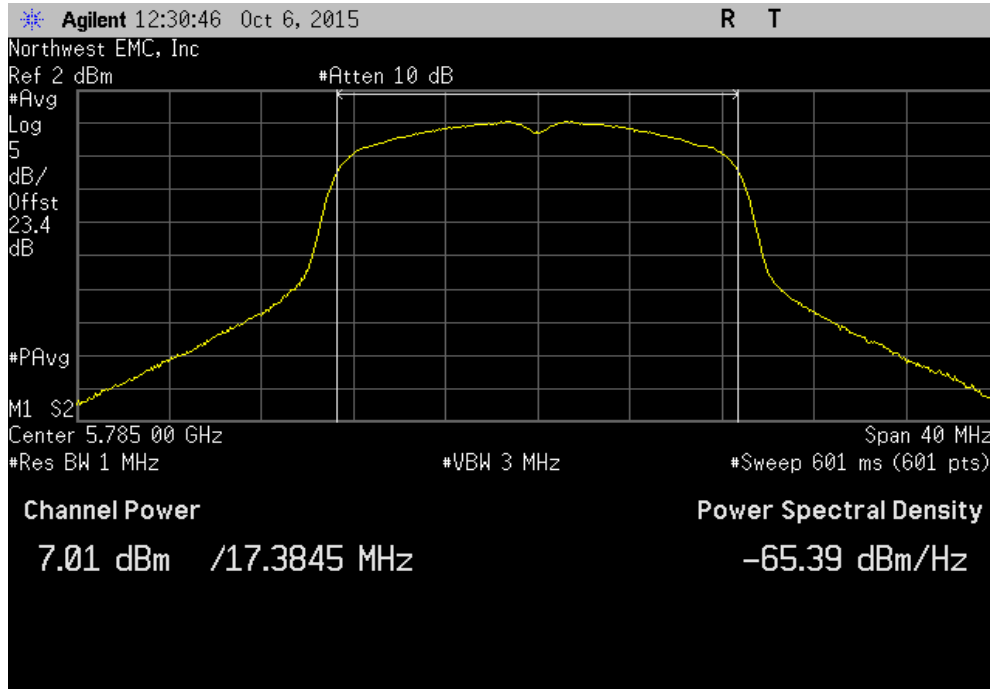


Ant 2, 802.11(n) MCS7, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz					
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results	
6.507	5.5	12	30	Pass	

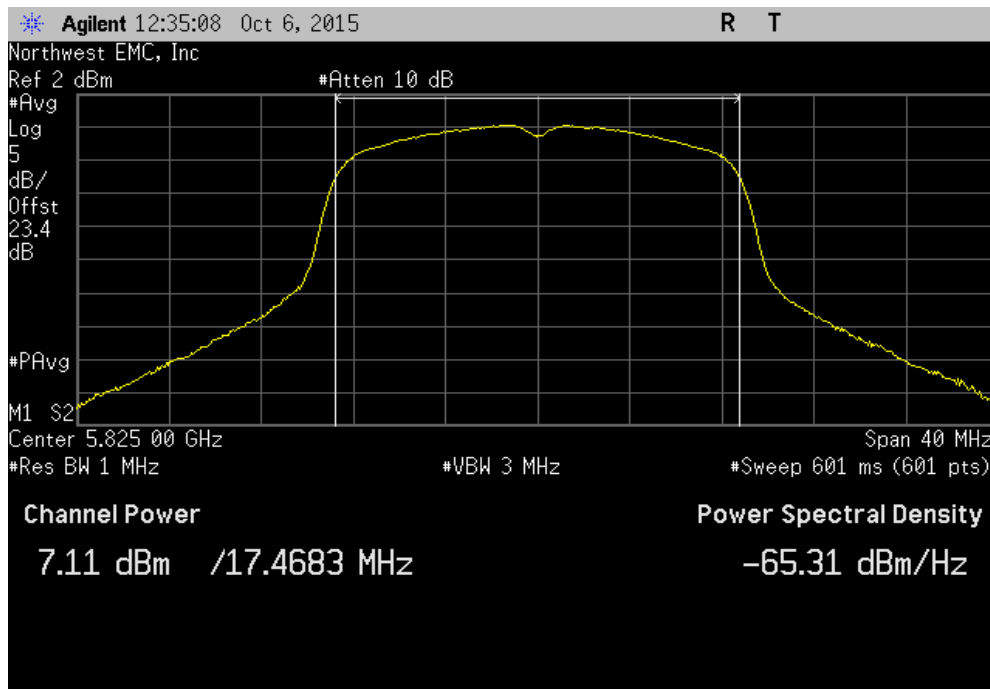


MAXIMUM CONDUCTED OUTPUT POWER

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.

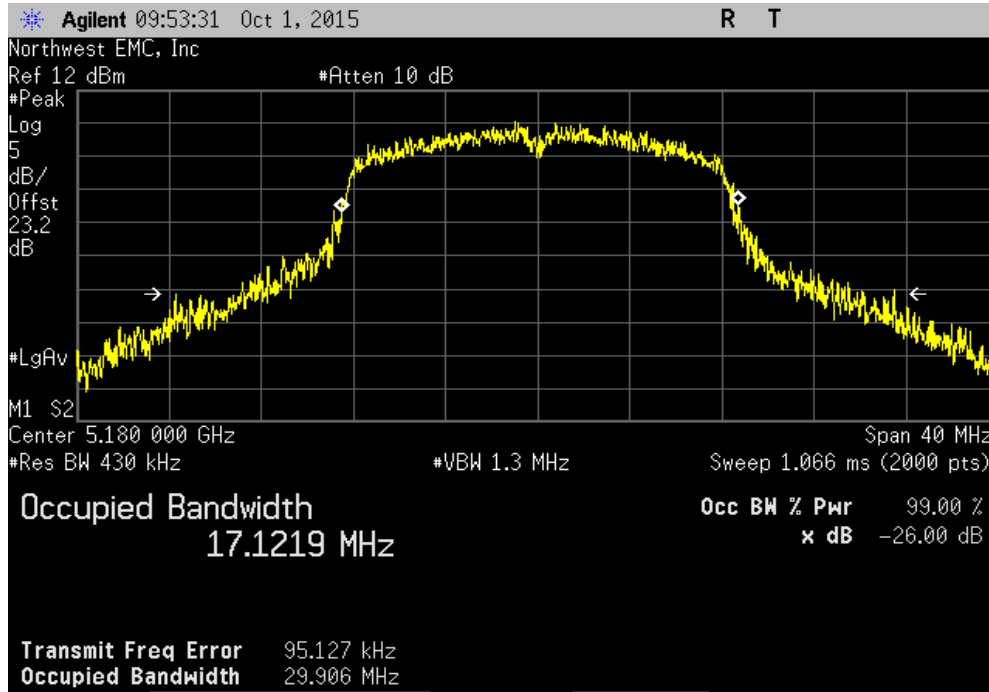
EMISSION BANDWIDTH

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	Job Site: NC02
TEST SPECIFICATIONS		
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) Result
Ant 1		
802.11(a) 6 Mbps		
5150 - 5250 MHz Band		
Low Channel 36, 5180 MHz		29.906 MHz N/A N/A
High Channel 48, 5240 MHz		29.093 MHz N/A N/A
5250 - 5350 MHz Band		
Low Channel 52, 5260 MHz		24.355 MHz N/A N/A
High Channel 64, 5320 MHz		23.968 MHz N/A N/A
5470 - 5725 MHz Band		
Low Channel 100, 5500 MHz		25.764 MHz N/A N/A
Mid Channel 120, 5600 MHz		32.519 MHz N/A N/A
High Channel 140, 5700 MHz		23.768 MHz N/A N/A
802.11(a) 36 Mbps		
5150 - 5250 MHz Band		
Low Channel 36, 5180 MHz		25.717 MHz N/A N/A
High Channel 48, 5240 MHz		23.995 MHz N/A N/A
5250 - 5350 MHz Band		
Low Channel 52, 5260 MHz		23.47 MHz N/A N/A
High Channel 64, 5320 MHz		22.405 MHz N/A N/A
5470 - 5725 MHz Band		
Low Channel 100, 5500 MHz		22.428 MHz N/A N/A
Mid Channel 120, 5600 MHz		25.685 MHz N/A N/A
High Channel 140, 5700 MHz		24.035 MHz N/A N/A
802.11(a) 54 Mbps		
5150 - 5250 MHz Band		
Low Channel 36, 5180 MHz		23.986 MHz N/A N/A
High Channel 48, 5240 MHz		23.306 MHz N/A N/A
5250 - 5350 MHz Band		
Low Channel 52, 5260 MHz		22.852 MHz N/A N/A
High Channel 64, 5320 MHz		20.377 MHz N/A N/A
5470 - 5725 MHz Band		
Low Channel 100, 5500 MHz		21.835 MHz N/A N/A
Mid Channel 120, 5600 MHz		22.94 MHz N/A N/A
High Channel 140, 5700 MHz		22.405 MHz N/A N/A
802.11(n) MCS0		
5150 - 5250 MHz Band		
Low Channel 36, 5180 MHz		30.135 MHz N/A N/A
High Channel 48, 5240 MHz		28.766 MHz N/A N/A
5250 - 5350 MHz Band		
Low Channel 52, 5260 MHz		24.556 MHz N/A N/A
High Channel 64, 5320 MHz		25.747 MHz N/A N/A
5470 - 5725 MHz Band		
Low Channel 100, 5500 MHz		27.215 MHz N/A N/A
Mid Channel 120, 5600 MHz		33.359 MHz N/A N/A
High Channel 140, 5700 MHz		23.739 MHz N/A N/A
802.11(n) MCS7		
5150 - 5250 MHz Band		
Low Channel 36, 5180 MHz		24.052 MHz N/A N/A
High Channel 48, 5240 MHz		23.442 MHz N/A N/A
5250 - 5350 MHz Band		
Low Channel 52, 5260 MHz		23.251 MHz N/A N/A
High Channel 64, 5320 MHz		25.226 MHz N/A N/A
5470 - 5725 MHz Band		
Low Channel 100, 5500 MHz		22.816 MHz N/A N/A
Mid Channel 120, 5600 MHz		25.01 MHz N/A N/A
High Channel 140, 5700 MHz		22.973 MHz N/A N/A
Ant 2		
802.11(a) 6 Mbps		
5150 - 5250 MHz Band		
Low Channel 36, 5180 MHz		28.091 MHz N/A N/A
High Channel 48, 5240 MHz		25.901 MHz N/A N/A
5250 - 5350 MHz Band		
Low Channel 52, 5260 MHz		25.171 MHz N/A N/A
High Channel 64, 5320 MHz		23.07 MHz N/A N/A
5470 - 5725 MHz Band		
Low Channel 100, 5500 MHz		28.085 MHz N/A N/A
Mid Channel 120, 5600 MHz		33.302 MHz N/A N/A
High Channel 140, 5700 MHz		23.424 MHz N/A N/A
802.11(a) 36 Mbps		
5150 - 5250 MHz Band		
Low Channel 36, 5180 MHz		23.039 MHz N/A N/A
High Channel 48, 5240 MHz		24.262 MHz N/A N/A

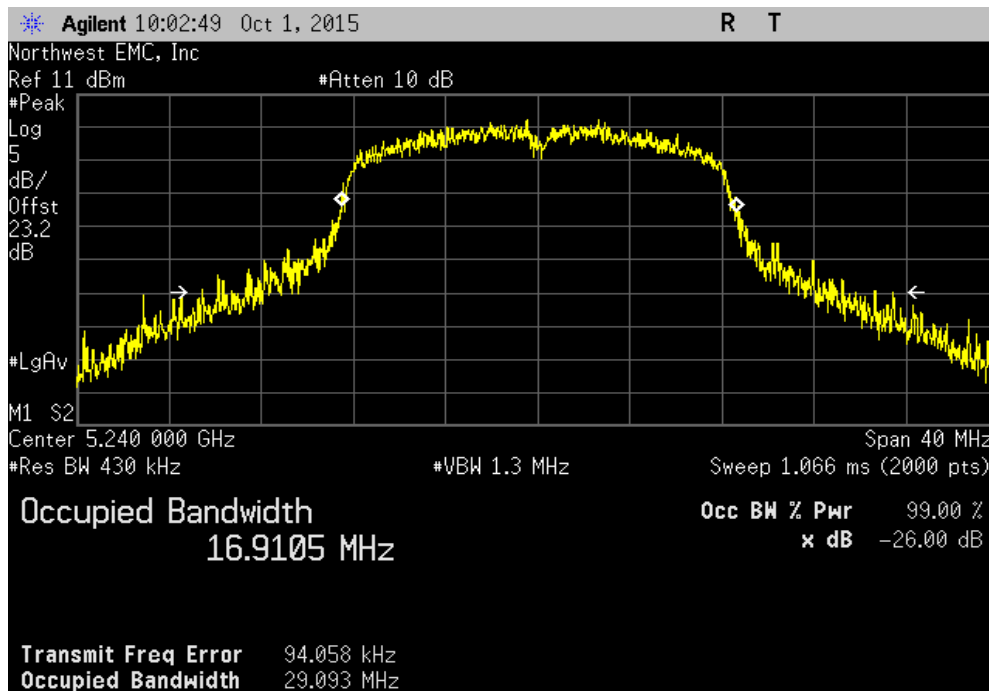
5250 - 5350 MHz Band				
	Low Channel 52, 5260 MHz	22.968 MHz	N/A	N/A
	High Channel 64, 5320 MHz	22.816 MHz	N/A	N/A
5470 - 5725 MHz Band				
	Low Channel 100, 5500 MHz	23.505 MHz	N/A	N/A
	Mid Channel 120, 5600 MHz	23.592 MHz	N/A	N/A
	High Channel 140, 5700 MHz	23.031 MHz	N/A	N/A
802.11(a) 54 Mbps				
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

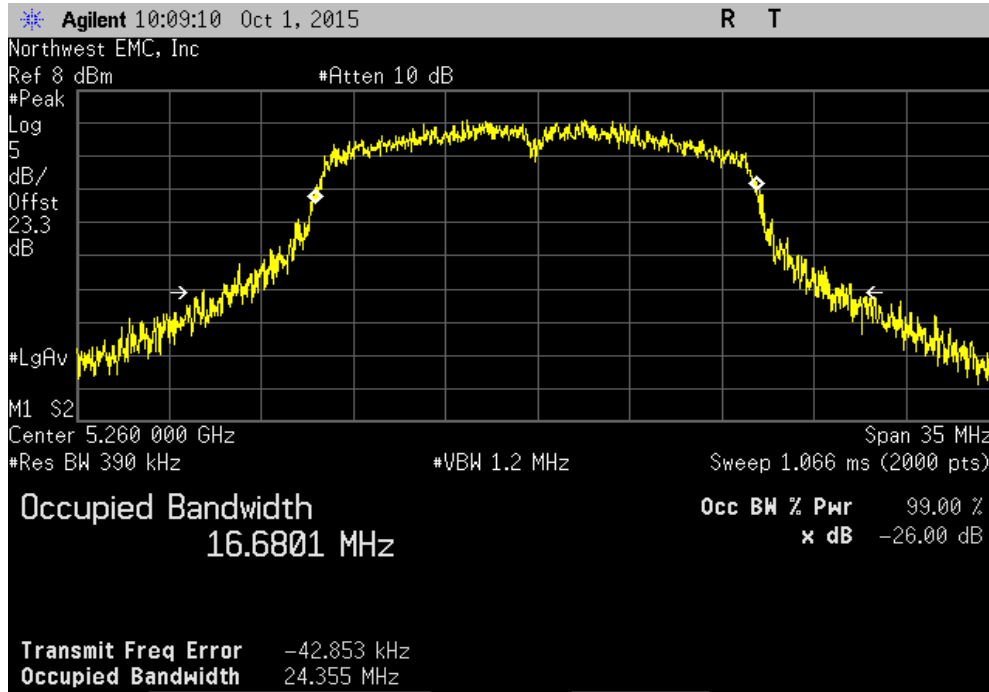


Ant 1, 802.11(a) 6 Mbps, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz			
	Value	Limit (N/A)	Result
	29.093 MHz	N/A	N/A

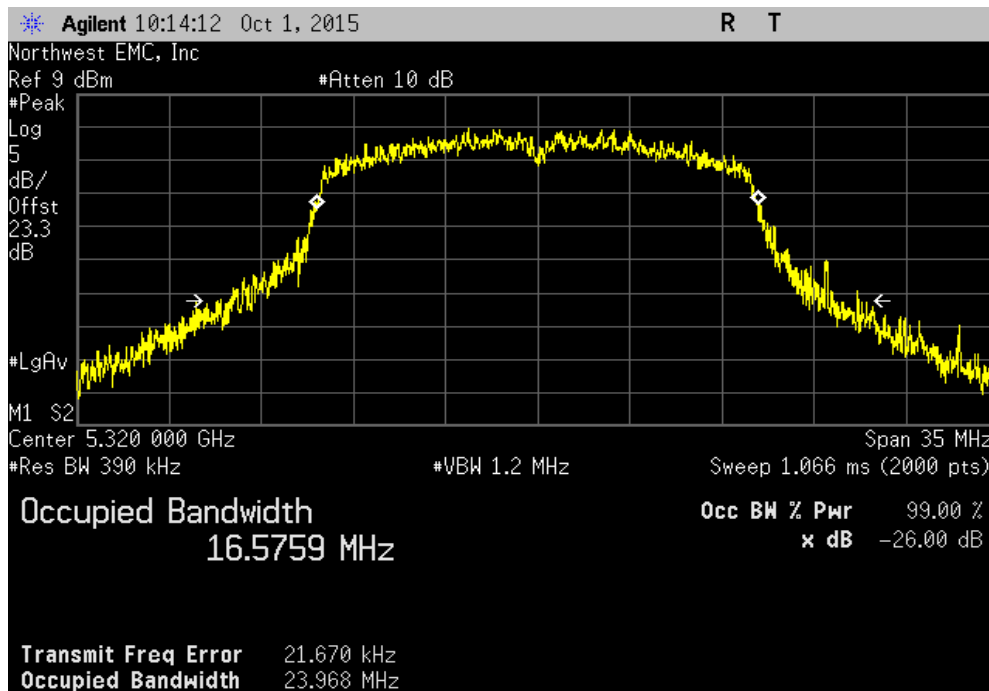


EMISSION BANDWIDTH

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

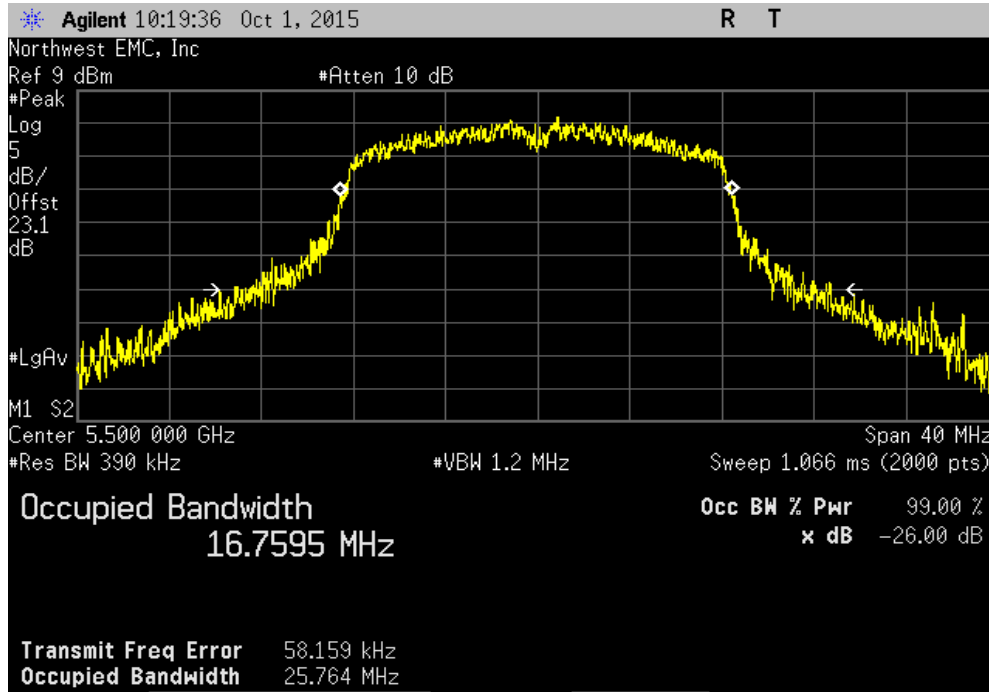


Ant 1, 802.11(a) 6 Mbps, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz			
	Value	Limit (N/A)	Result
	23.968 MHz	N/A	N/A

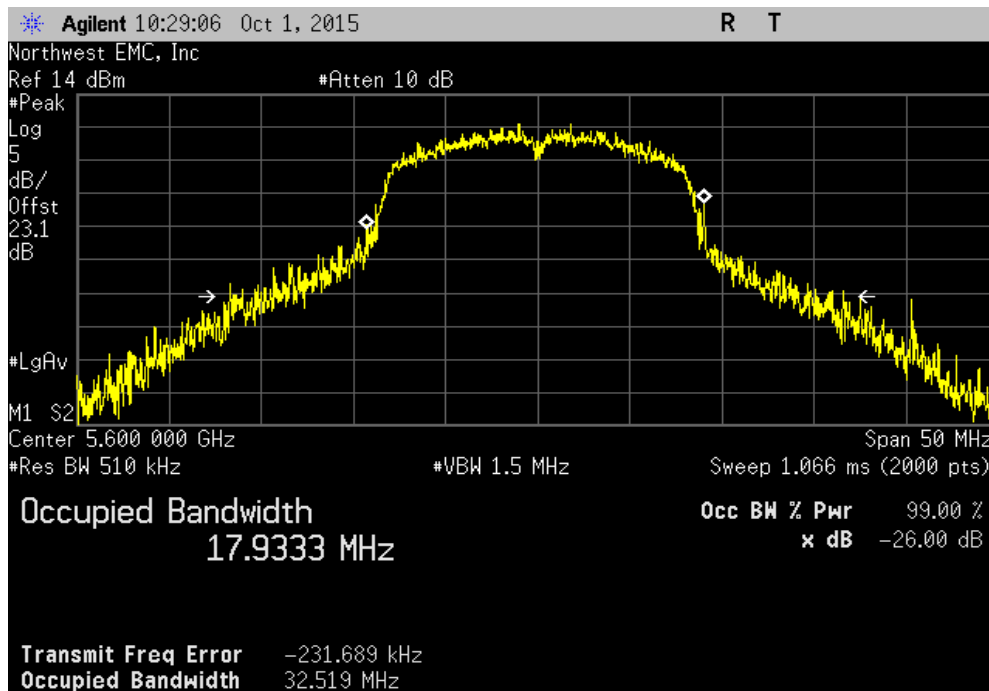


EMISSION BANDWIDTH

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

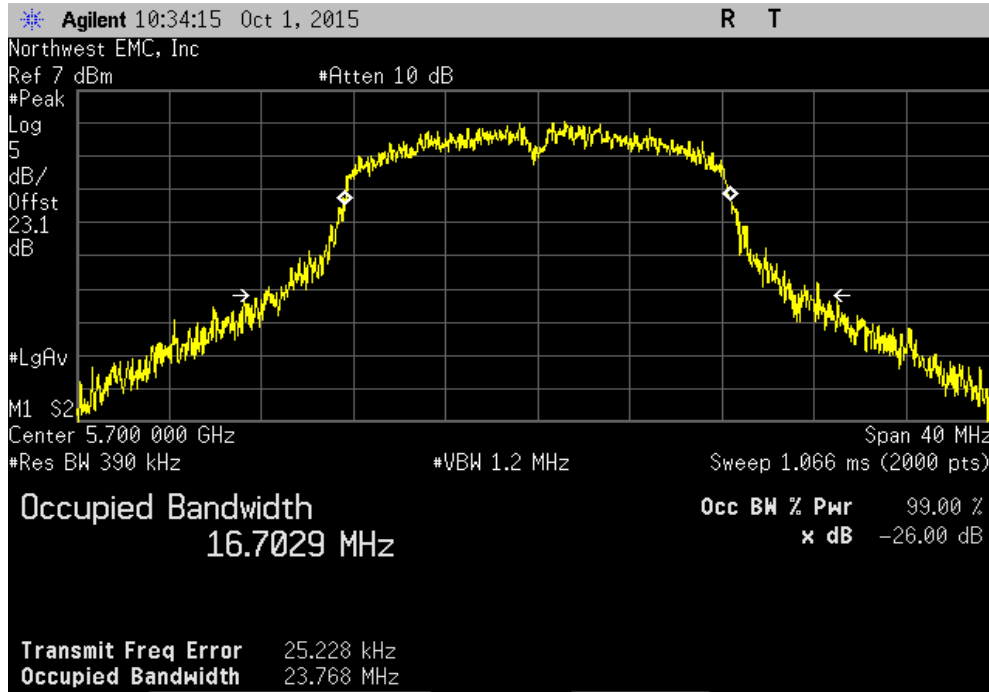


Ant 1, 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz			
	Value	Limit (N/A)	Result
	32.519 MHz	N/A	N/A

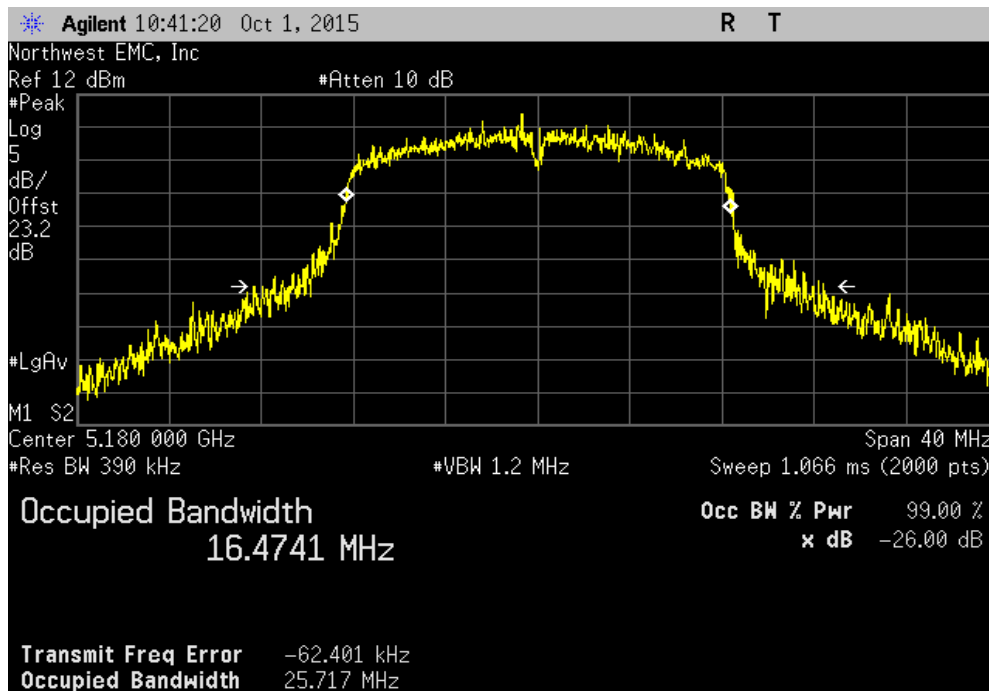


EMISSION BANDWIDTH

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

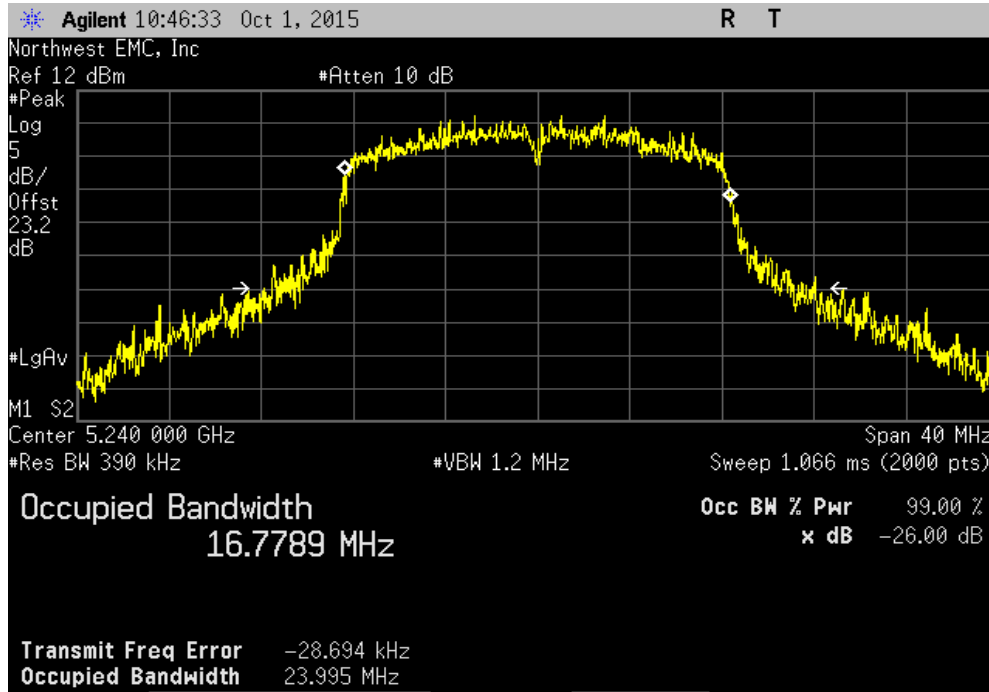


Ant 1, 802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz			
	Value	Limit (N/A)	Result
	25.717 MHz	N/A	N/A

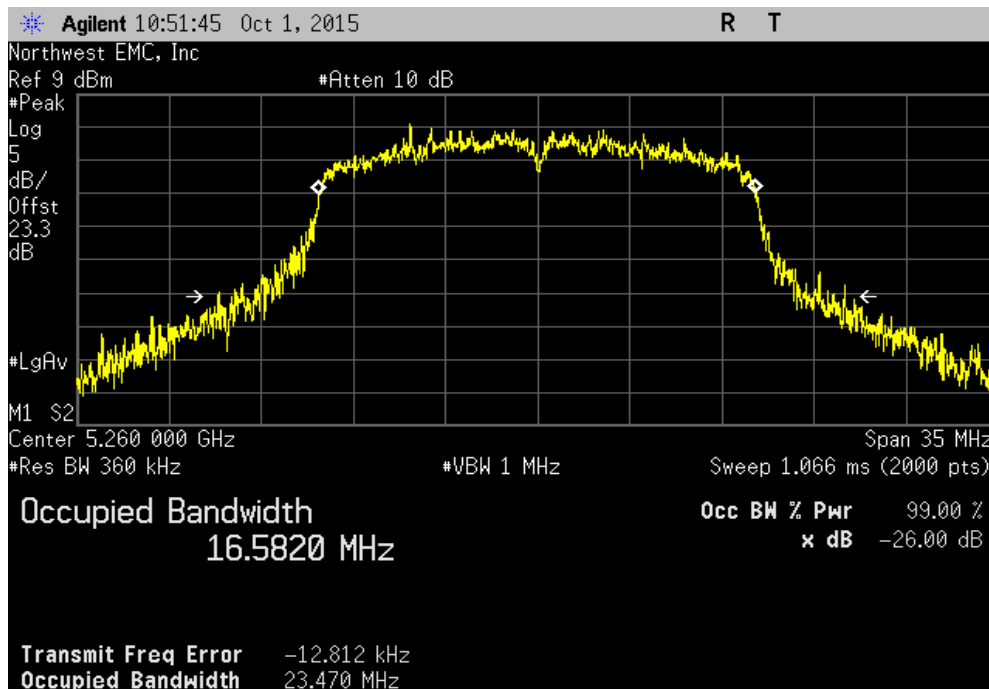


EMISSION BANDWIDTH

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

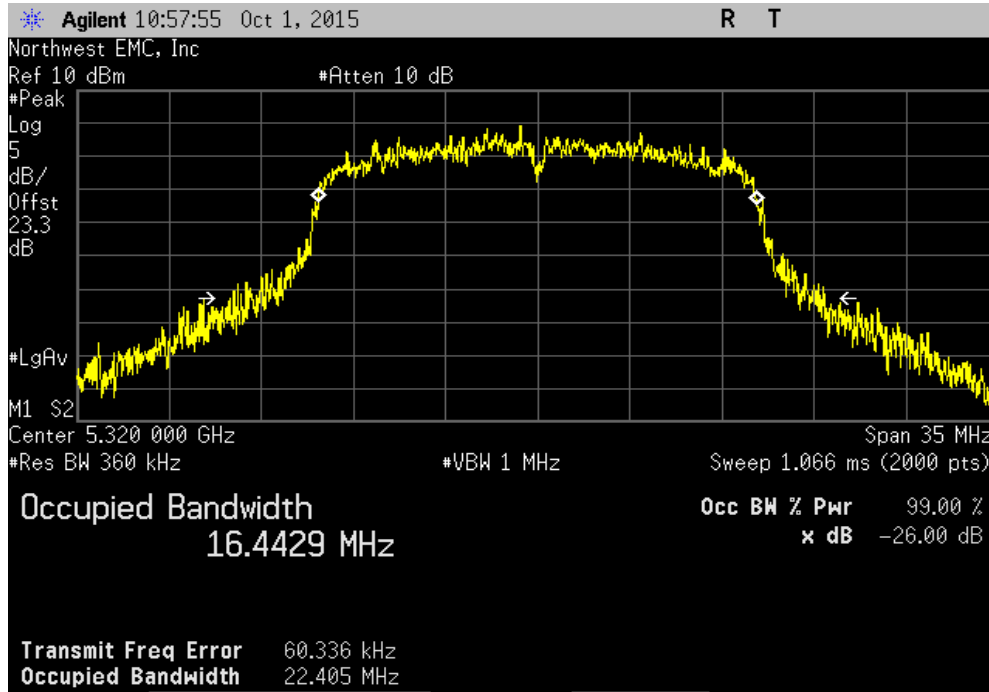


Ant 1, 802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
				Value	Limit (N/A)	Result
				23.47 MHz	N/A	N/A

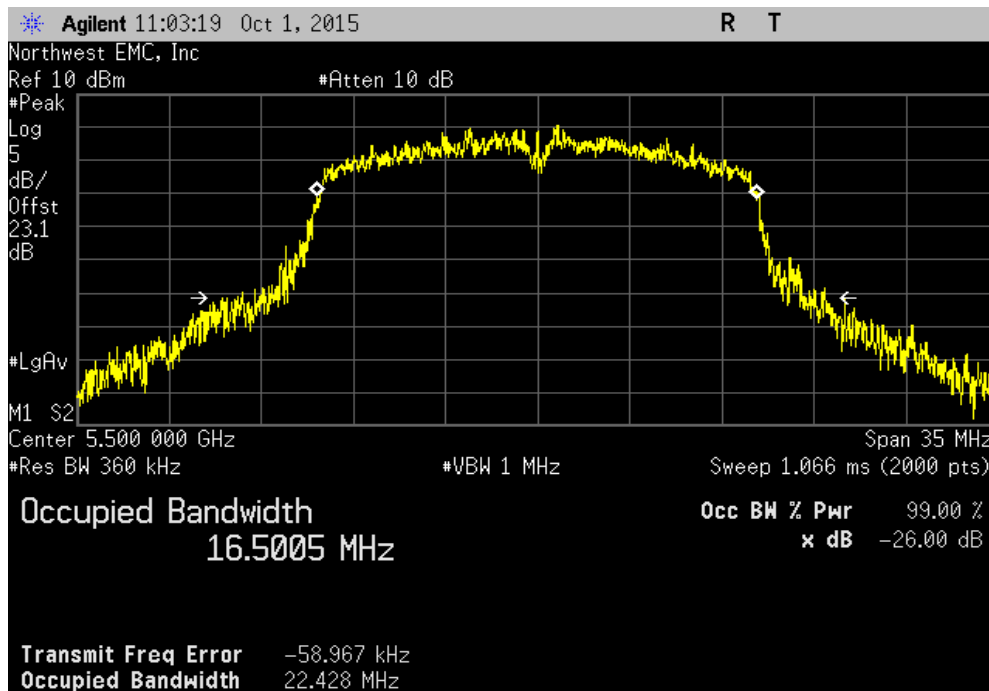


EMISSION BANDWIDTH

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

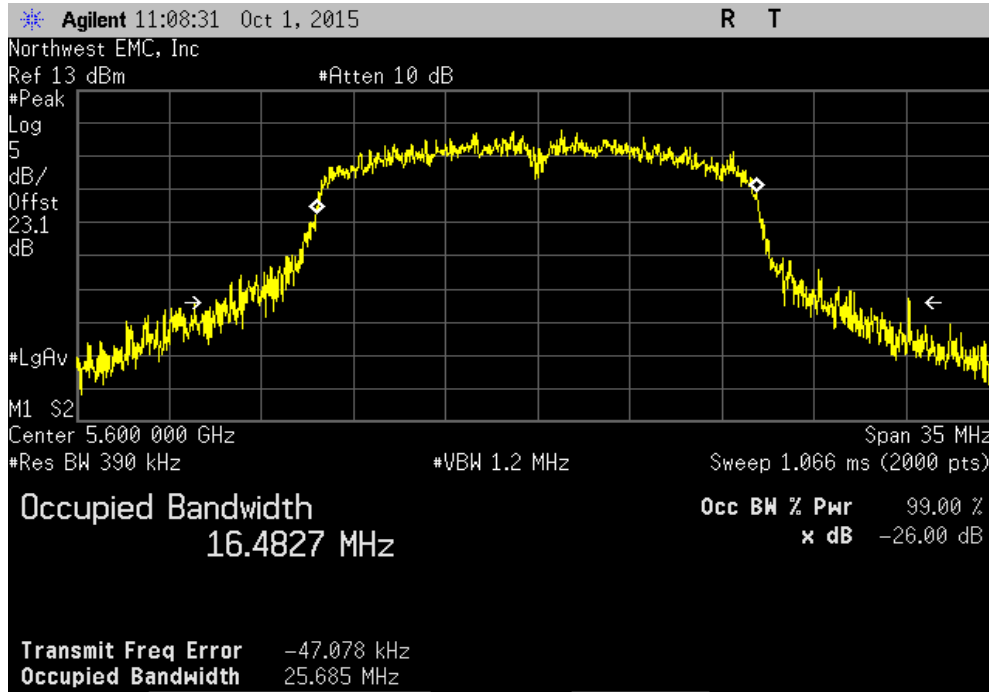


Ant 1, 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz			
	Value	Limit (N/A)	Result
	22.428 MHz	N/A	N/A

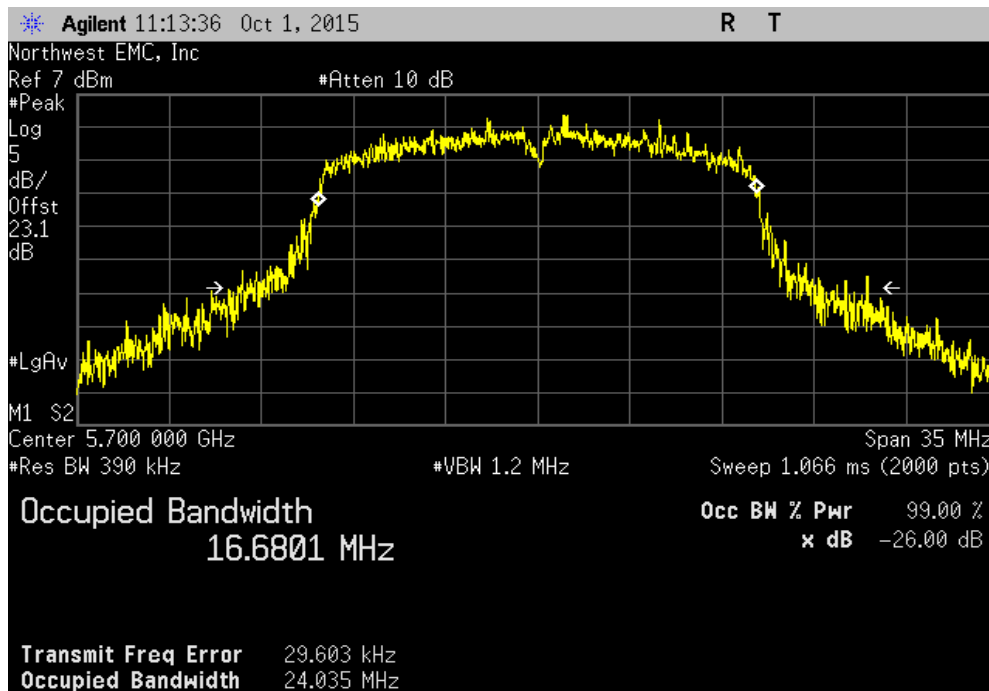


EMISSION BANDWIDTH

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

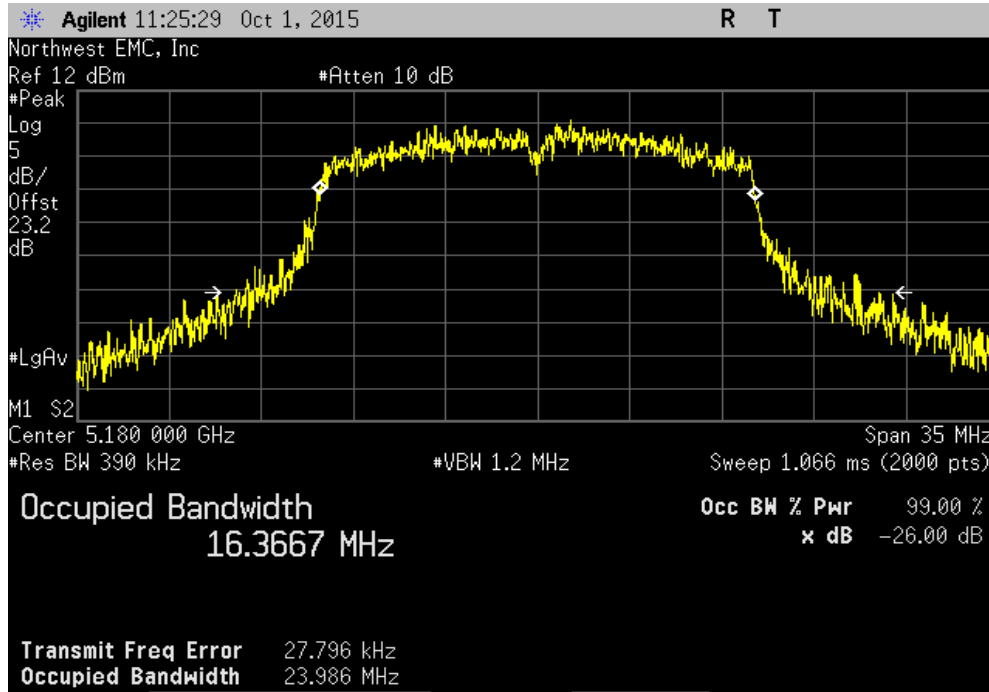


Ant 1, 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz			
	Value	Limit (N/A)	Result
	24.035 MHz	N/A	N/A

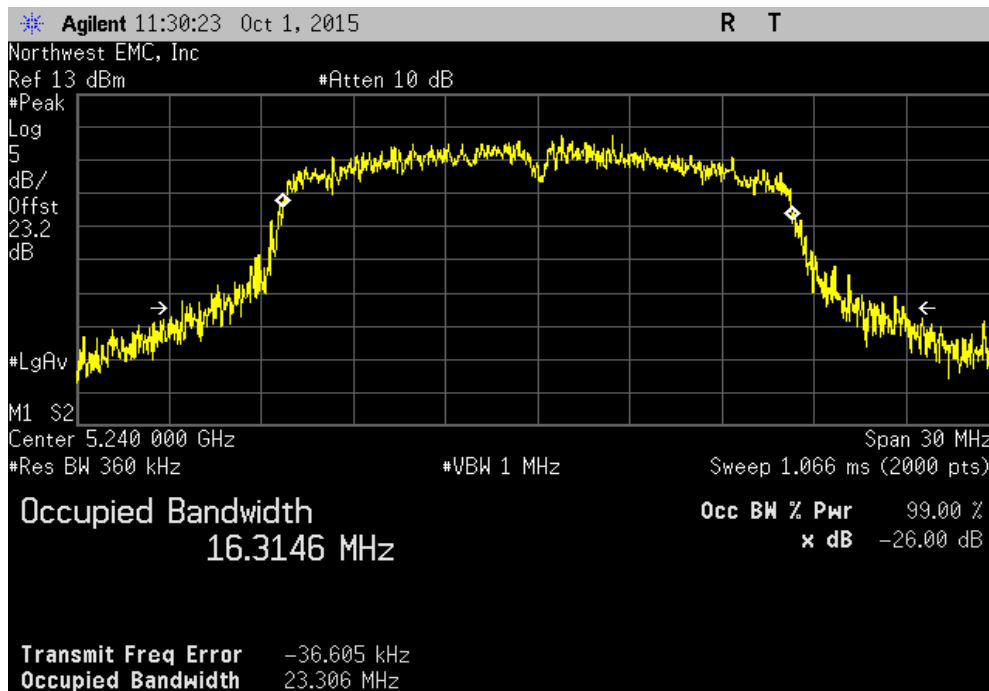


EMISSION BANDWIDTH

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

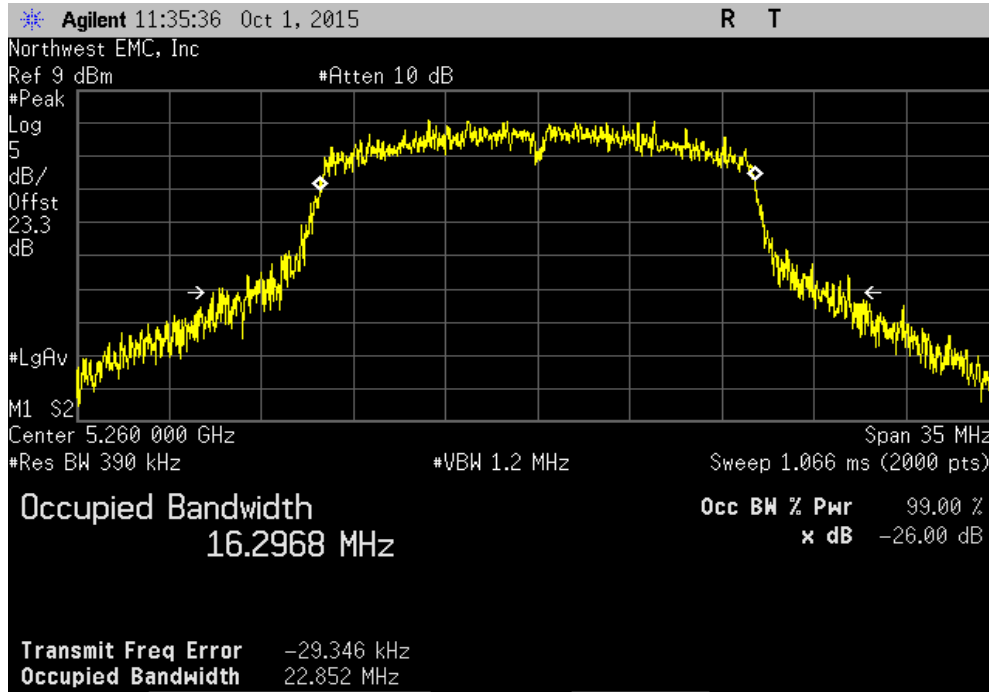


Ant 1, 802.11(a) 54 Mbps, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz			
	Value	Limit (N/A)	Result
	23.306 MHz	N/A	N/A

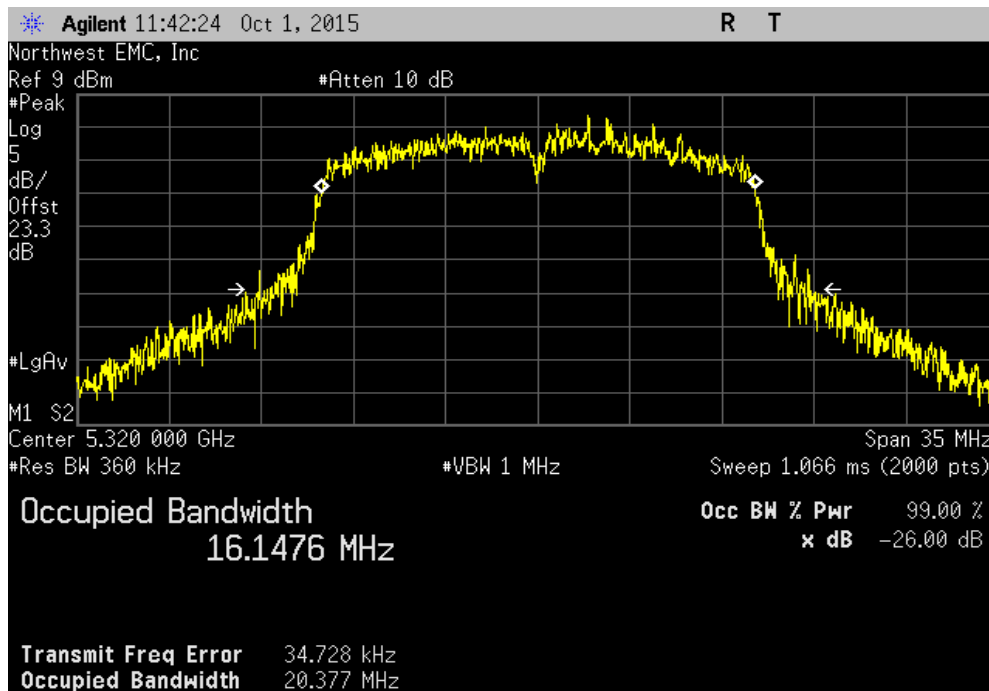


EMISSION BANDWIDTH

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

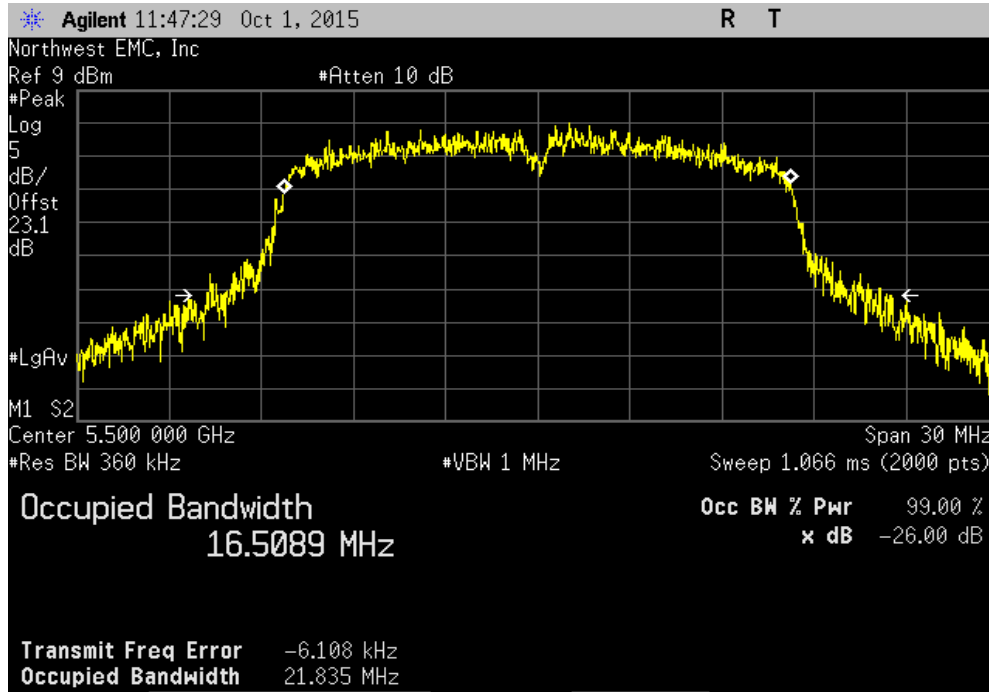


Ant 1, 802.11(a) 54 Mbps, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz			
	Value	Limit (N/A)	Result
	20.377 MHz	N/A	N/A

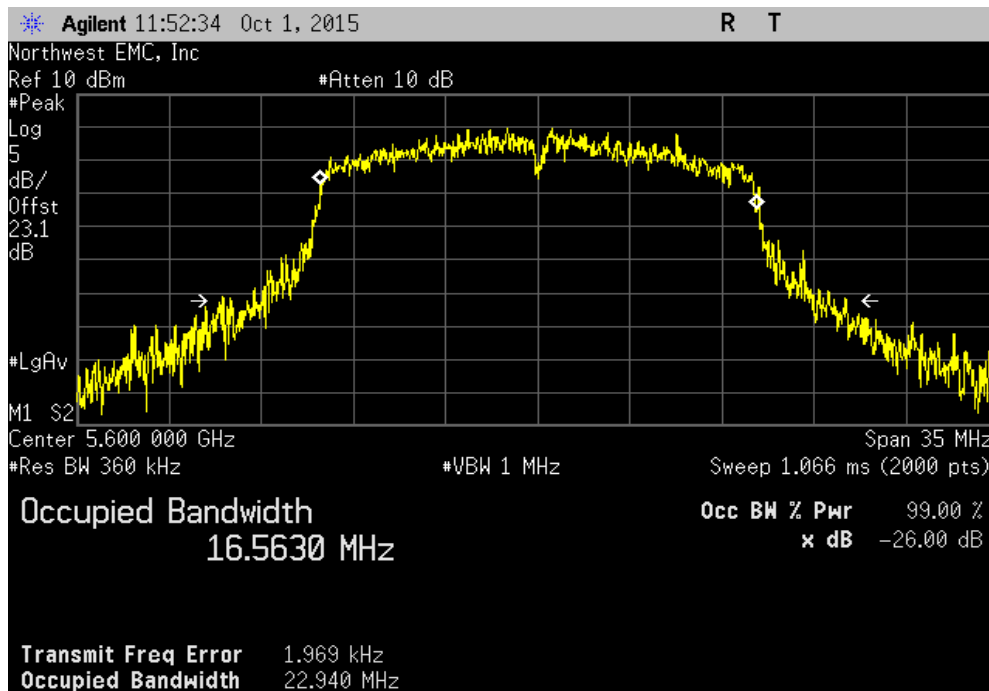


EMISSION BANDWIDTH

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

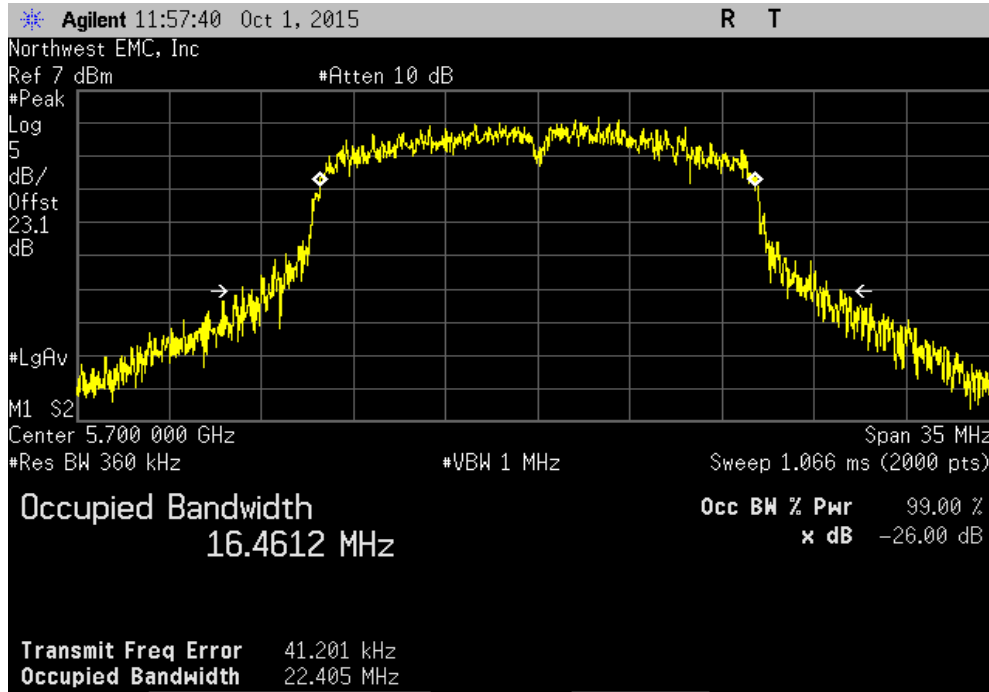


Ant 1, 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
				Value	Limit (N/A)	Result
				22.94 MHz	N/A	N/A

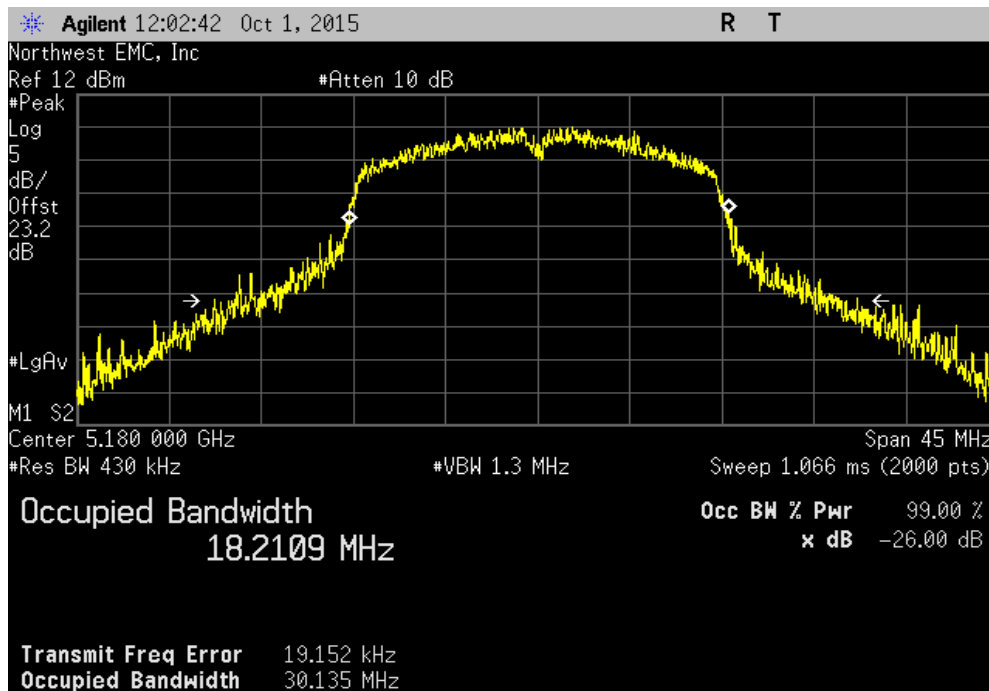


EMISSION BANDWIDTH

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

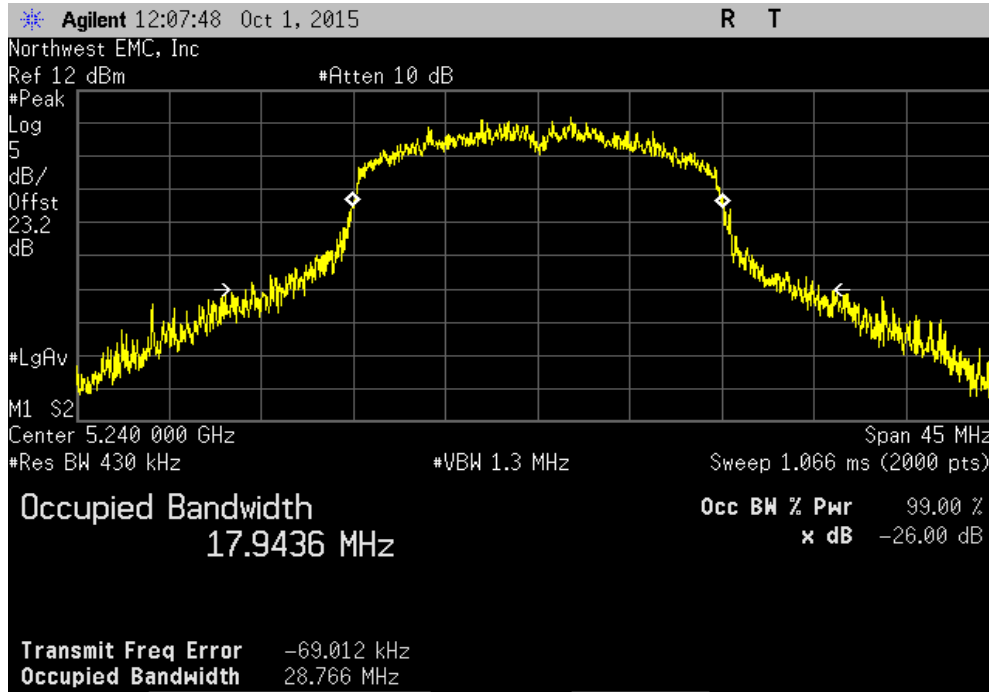


Ant 1, 802.11(n) MCS0, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz			
	Value	Limit (N/A)	Result
	30.135 MHz	N/A	N/A

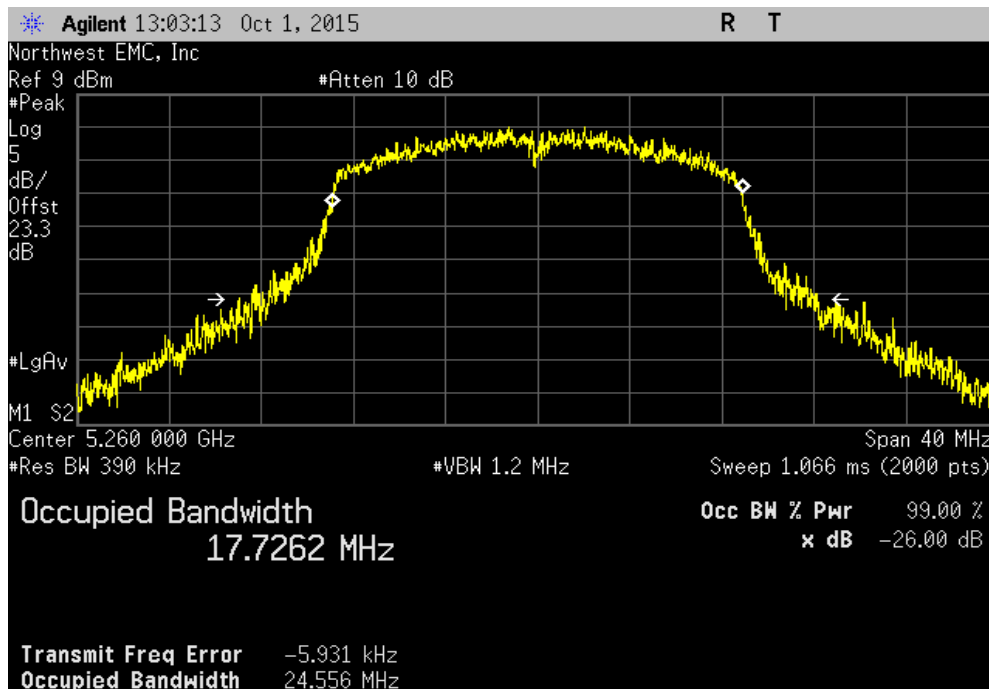


EMISSION BANDWIDTH

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

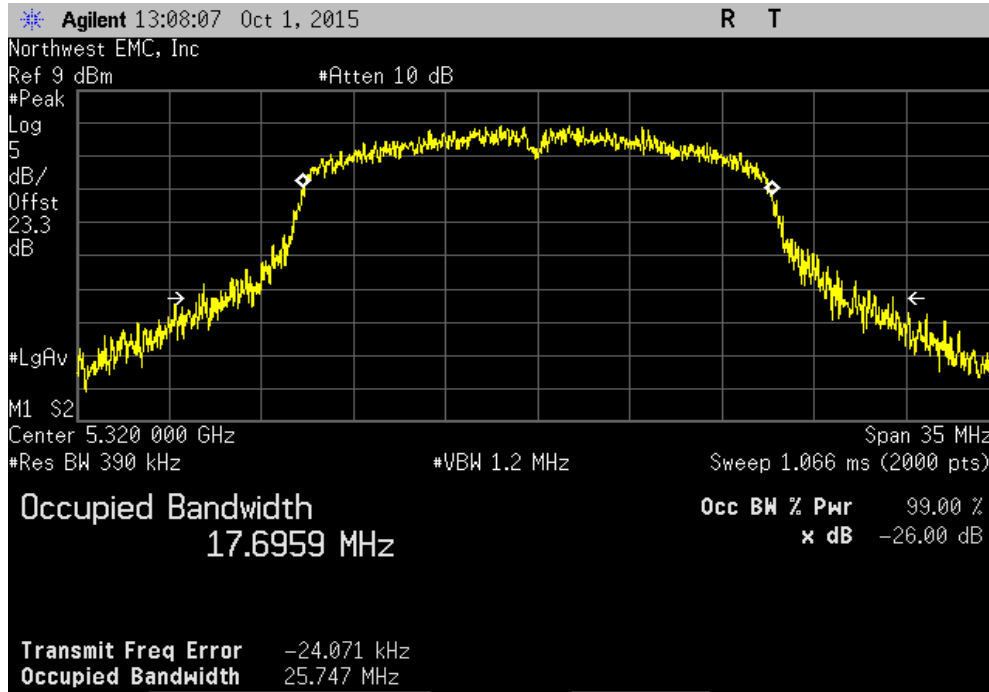


Ant 1, 802.11(n) MCS0, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz			
	Value	Limit (N/A)	Result
	24.556 MHz	N/A	N/A

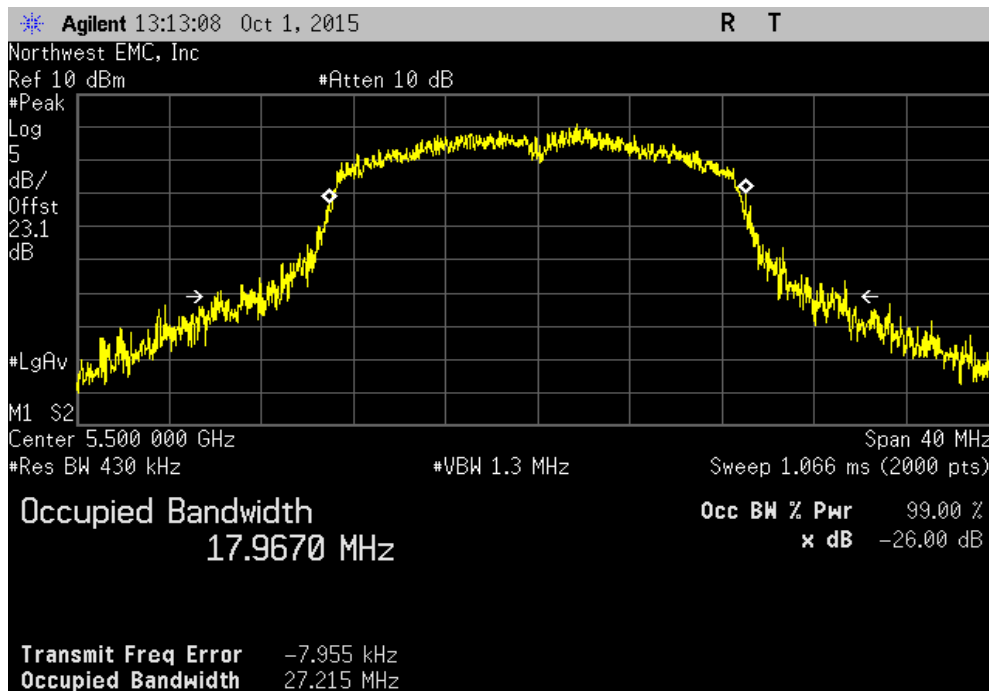


EMISSION BANDWIDTH

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

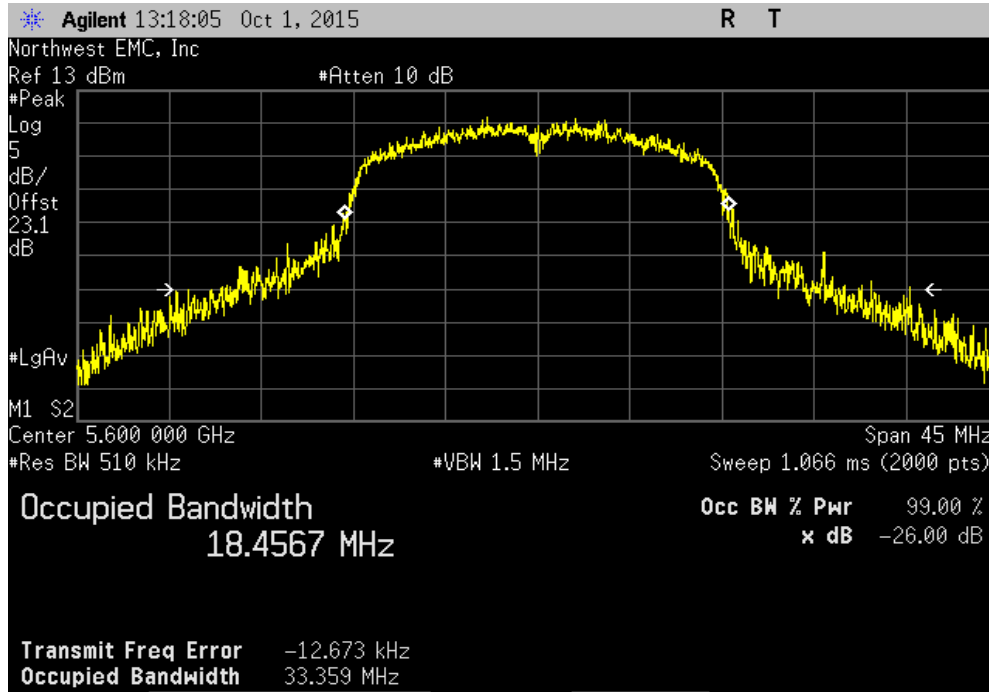


Ant 1, 802.11(n) MCS0, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz			
	Value	Limit (N/A)	Result
	27.215 MHz	N/A	N/A

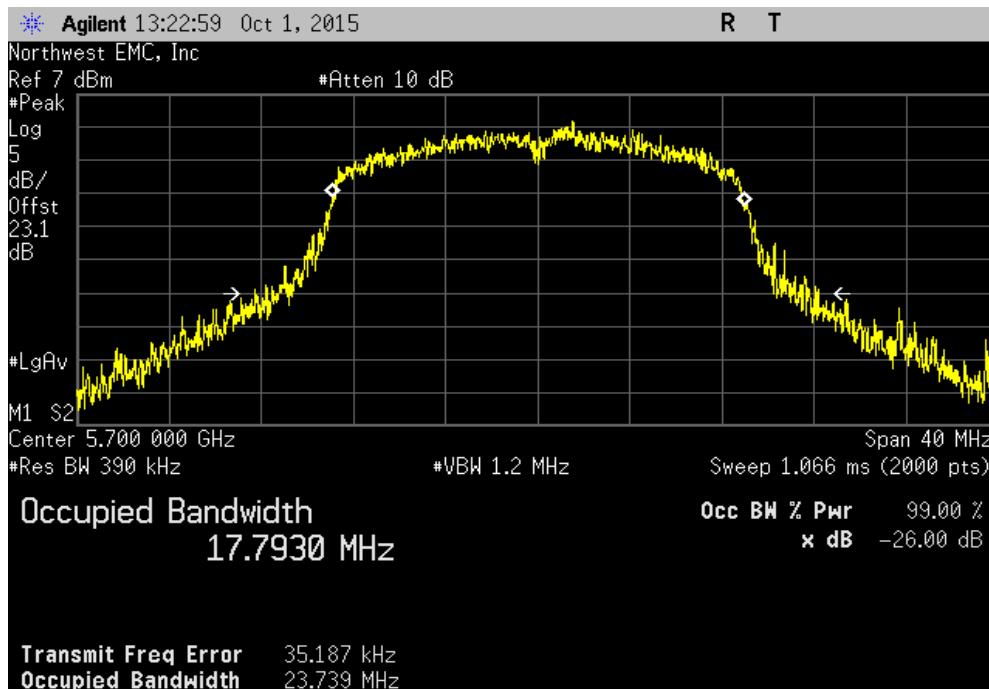


EMISSION BANDWIDTH

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

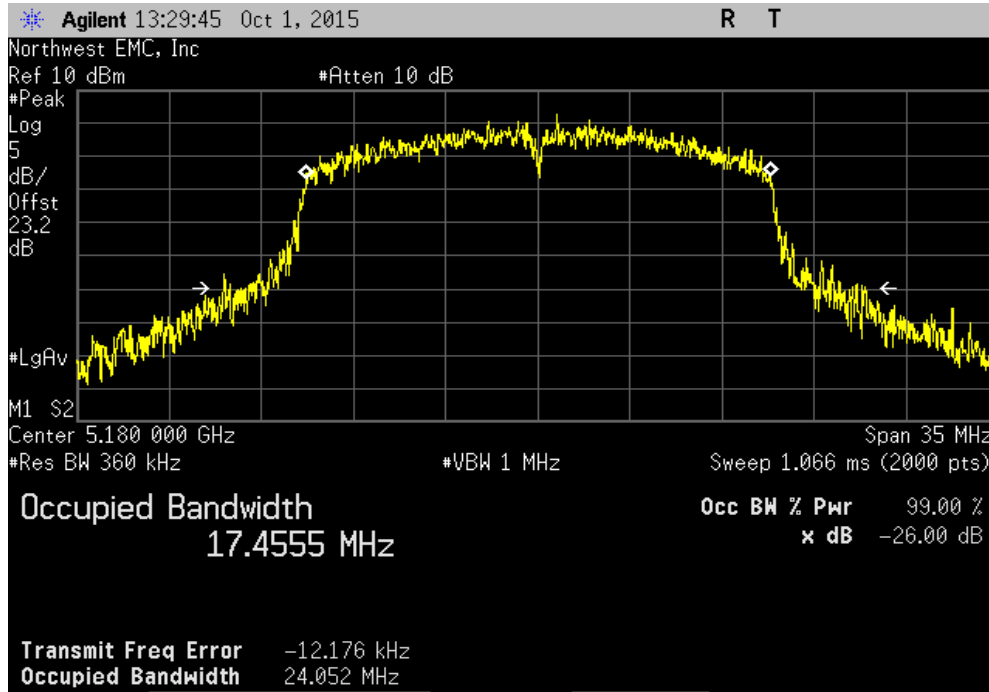


Ant 1, 802.11(n) MCS0, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz			
	Value	Limit (N/A)	Result
	23.739 MHz	N/A	N/A

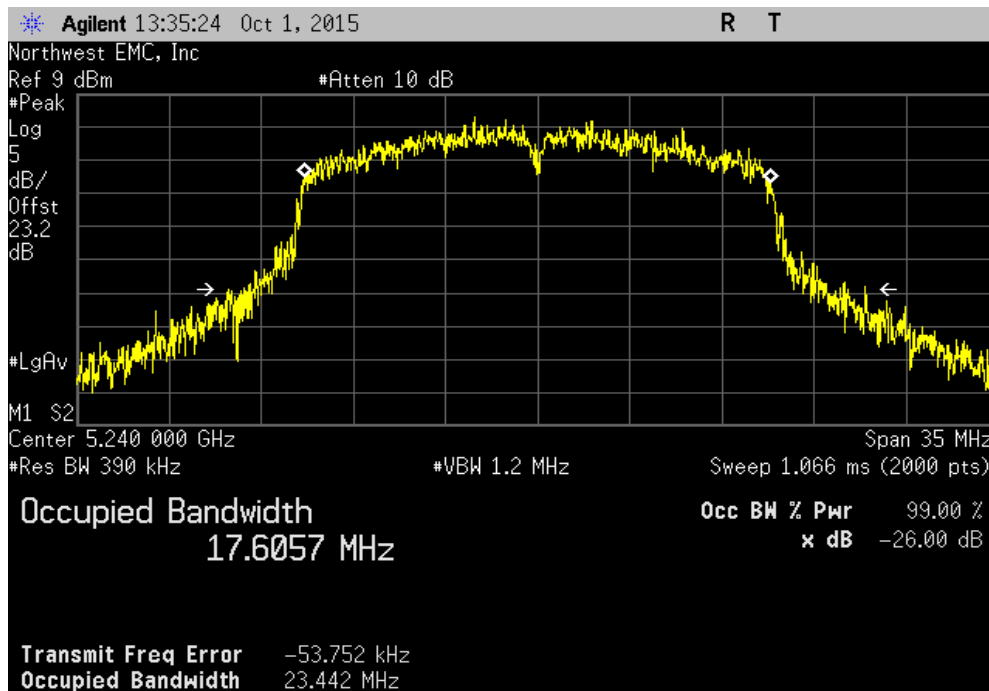


EMISSION BANDWIDTH

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

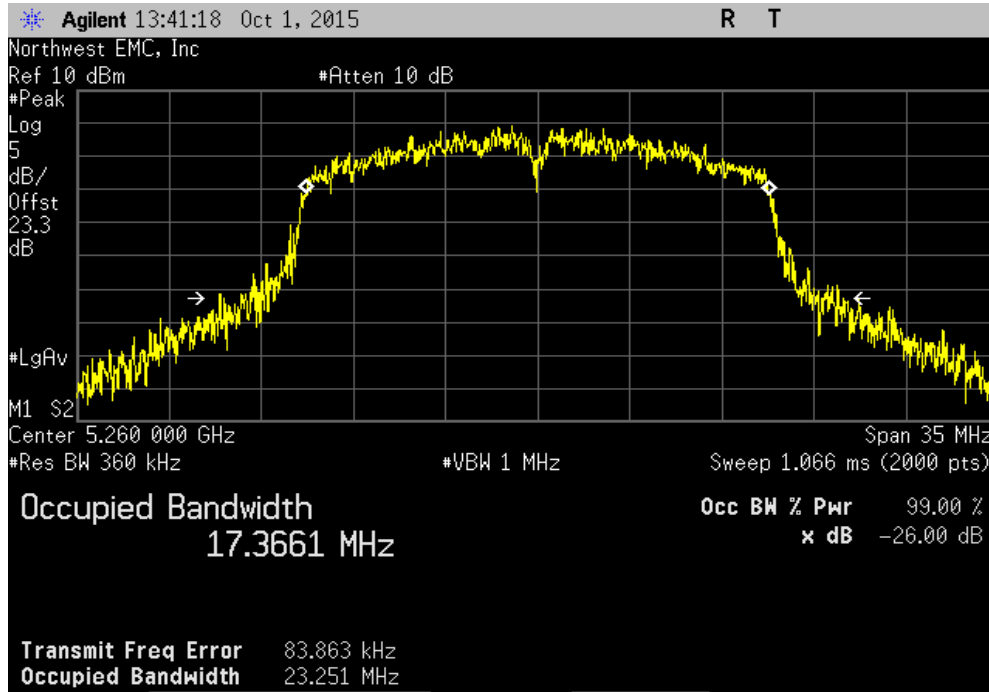


Ant 1, 802.11(n) MCS7, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz			
	Value	Limit (N/A)	Result
	23.442 MHz	N/A	N/A

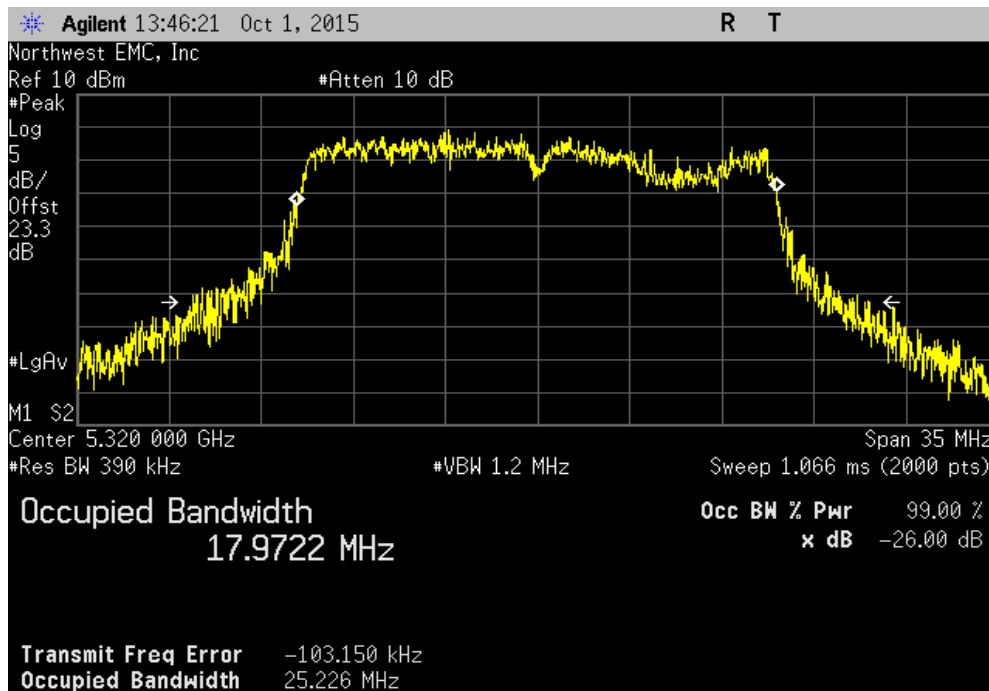


EMISSION BANDWIDTH

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

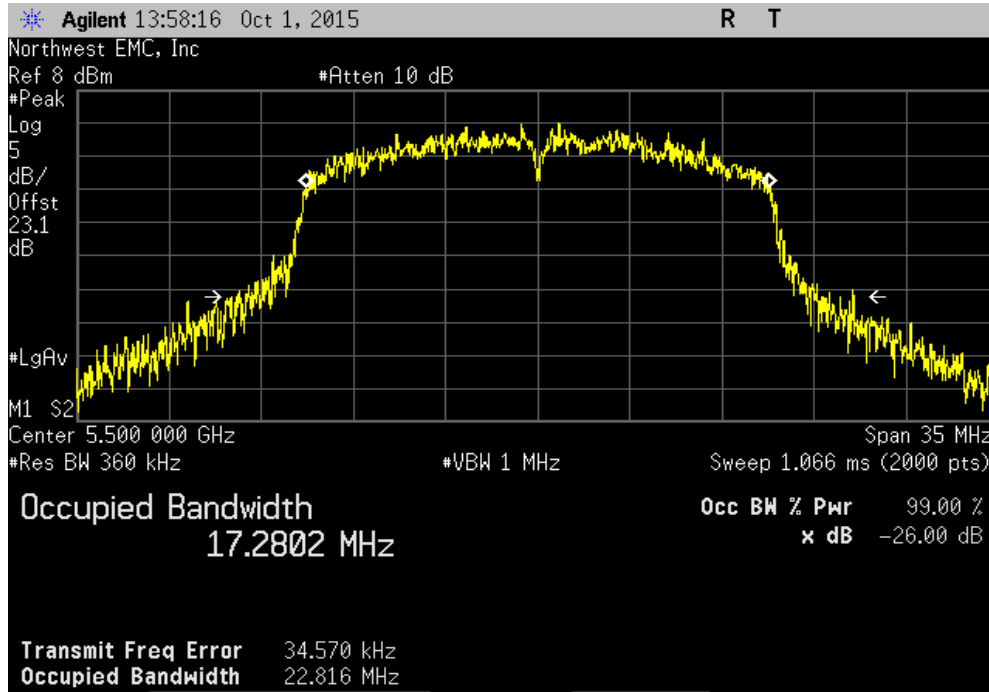


Ant 1, 802.11(n) MCS7, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz			
	Value	Limit (N/A)	Result
	25.226 MHz	N/A	N/A

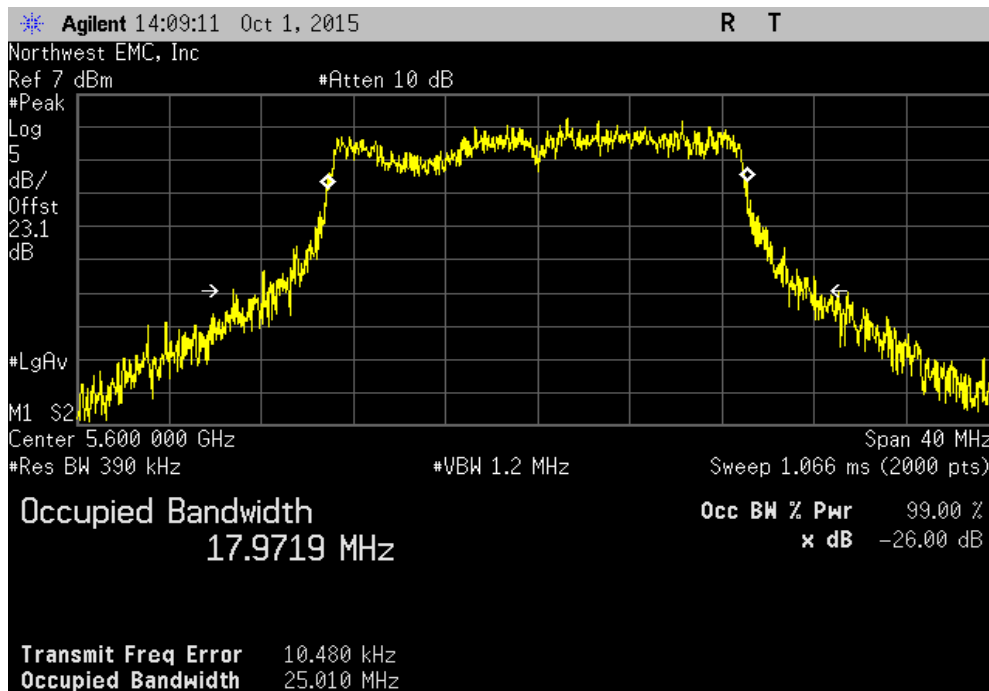


EMISSION BANDWIDTH

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

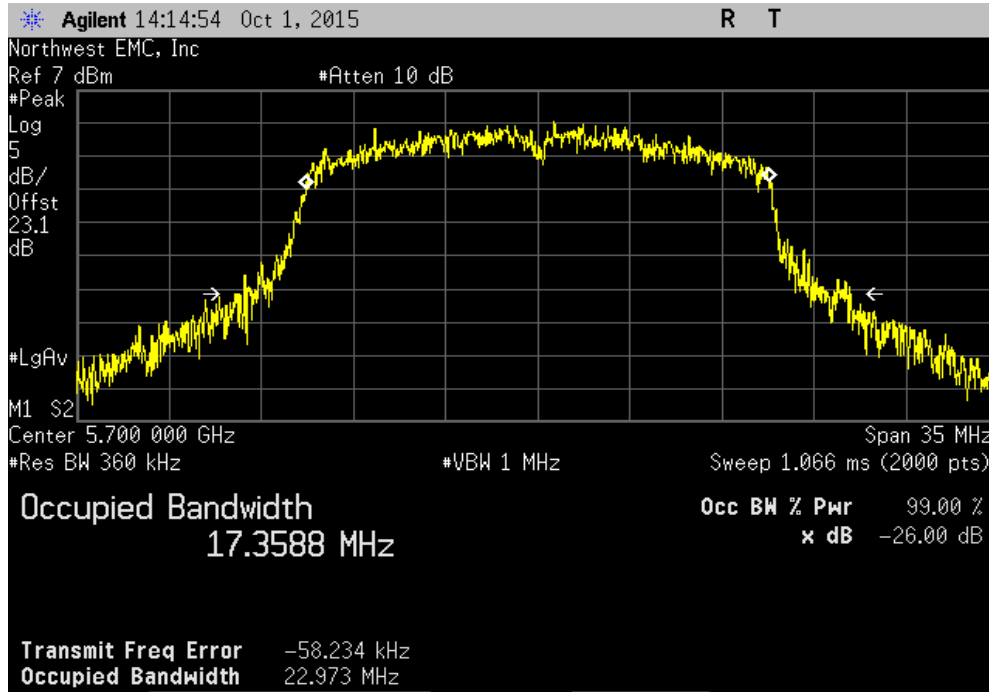


Ant 1, 802.11(n) MCS7, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz			
	Value	Limit (N/A)	Result
	25.01 MHz	N/A	N/A

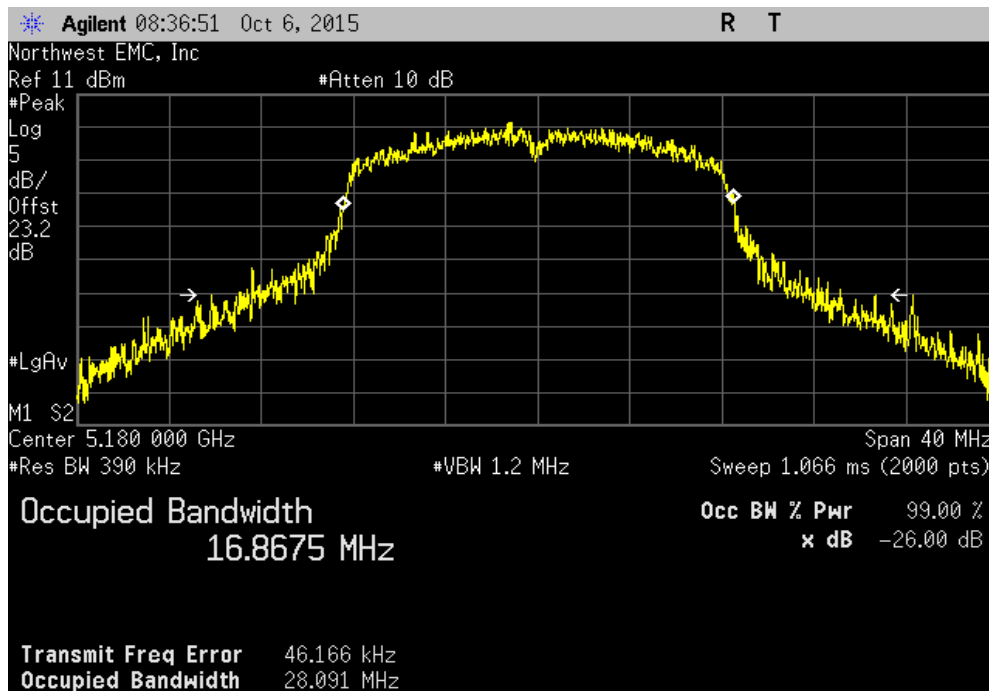


EMISSION BANDWIDTH

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

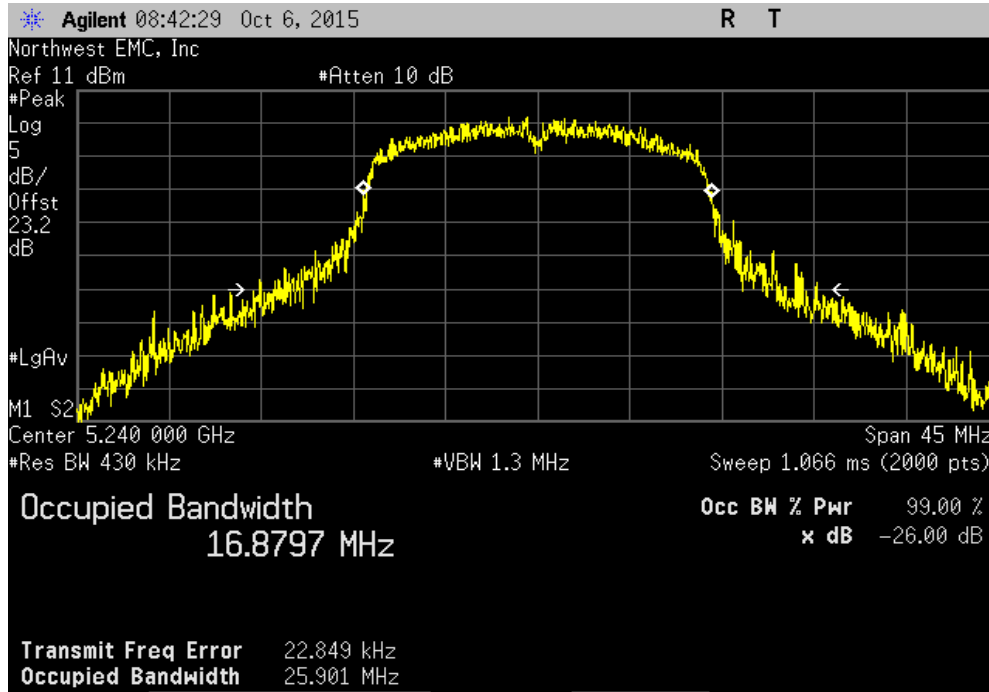


Ant 2, 802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz			
	Value	Limit (N/A)	Result
	28.091 MHz	N/A	N/A

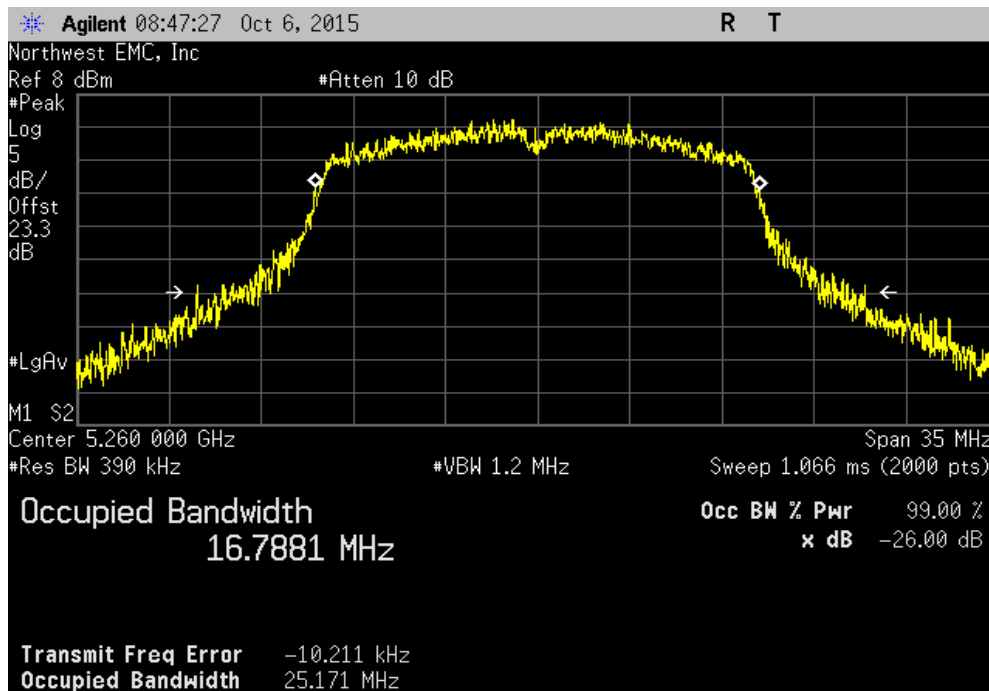


EMISSION BANDWIDTH

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

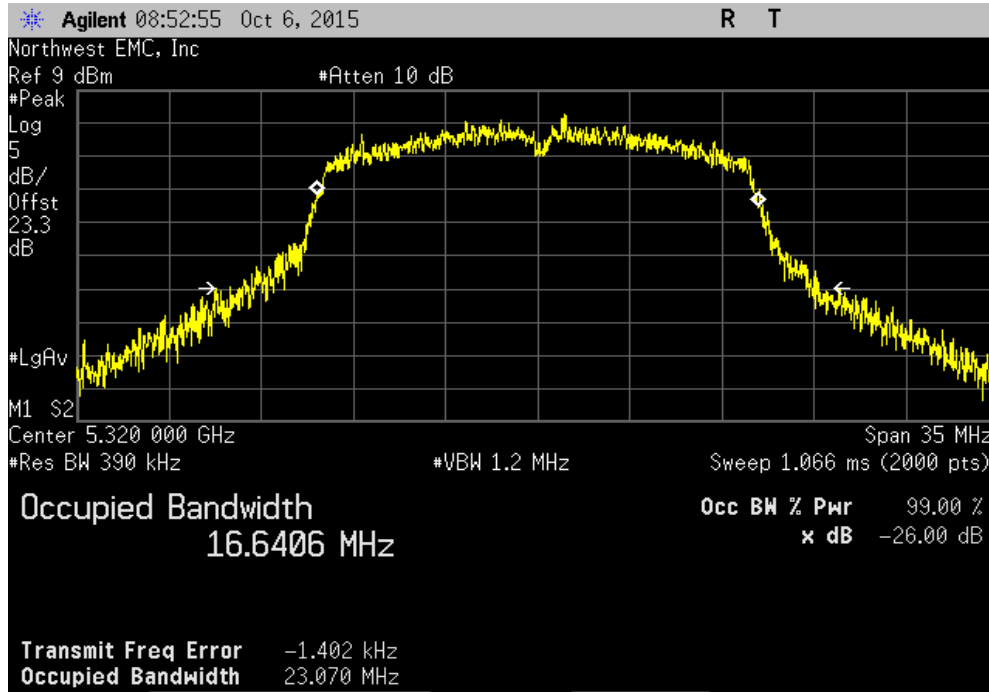


Ant 2, 802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz			
	Value	Limit (N/A)	Result
	25.171 MHz	N/A	N/A

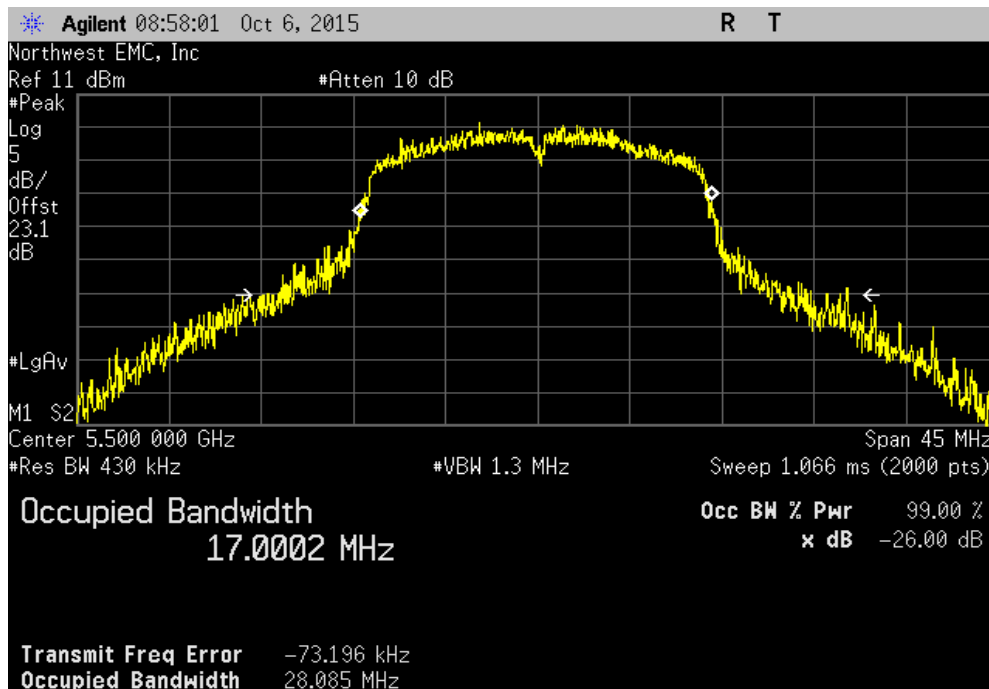


EMISSION BANDWIDTH

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

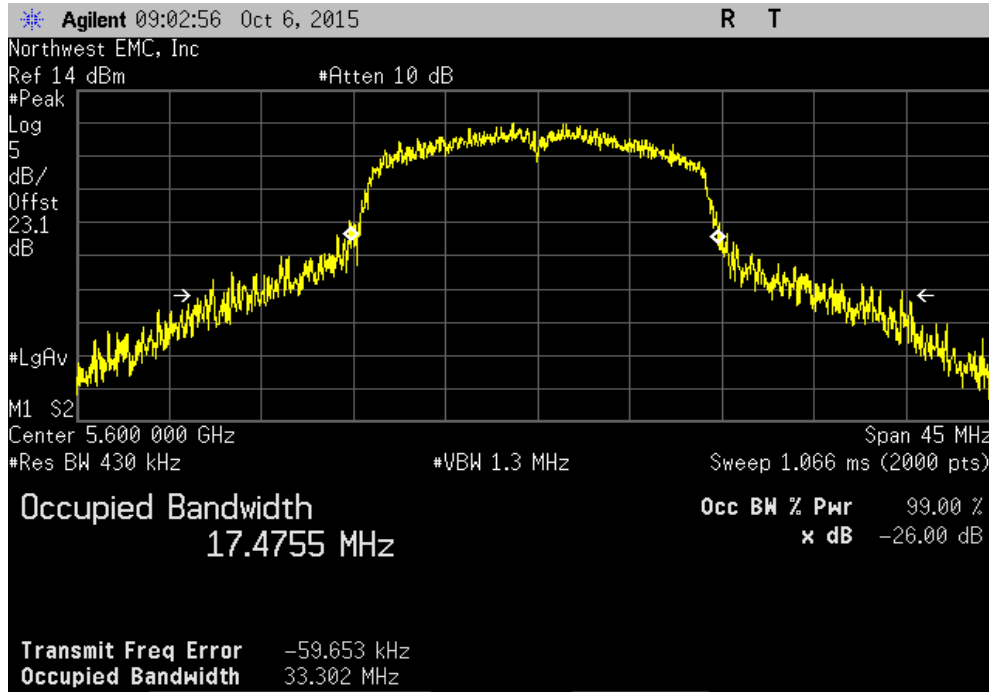


Ant 2, 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz			
	Value	Limit (N/A)	Result
	28.085 MHz	N/A	N/A

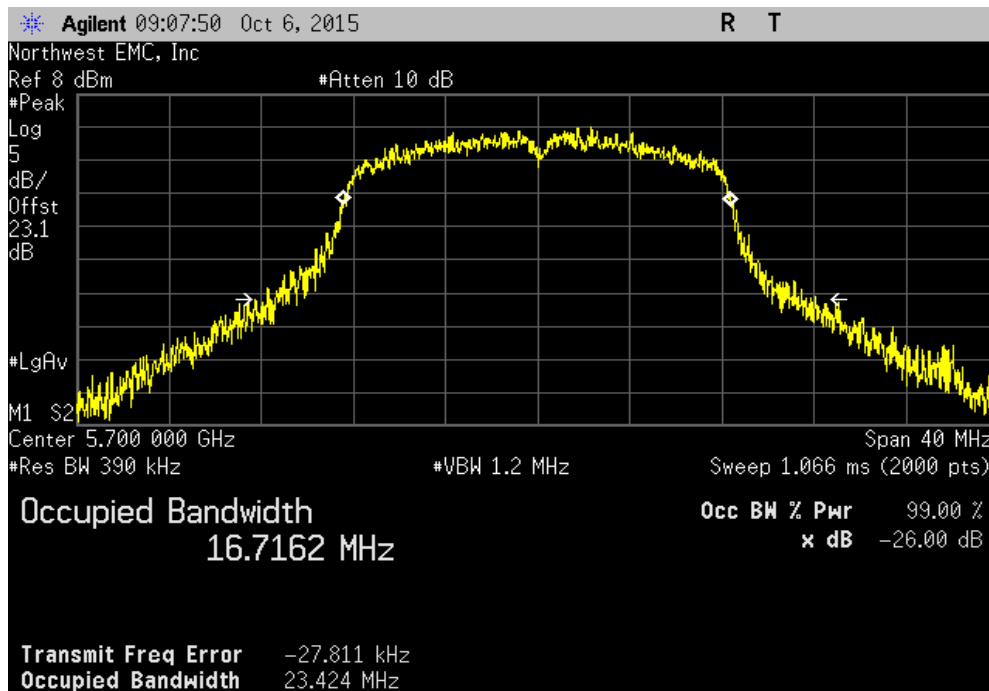


EMISSION BANDWIDTH

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

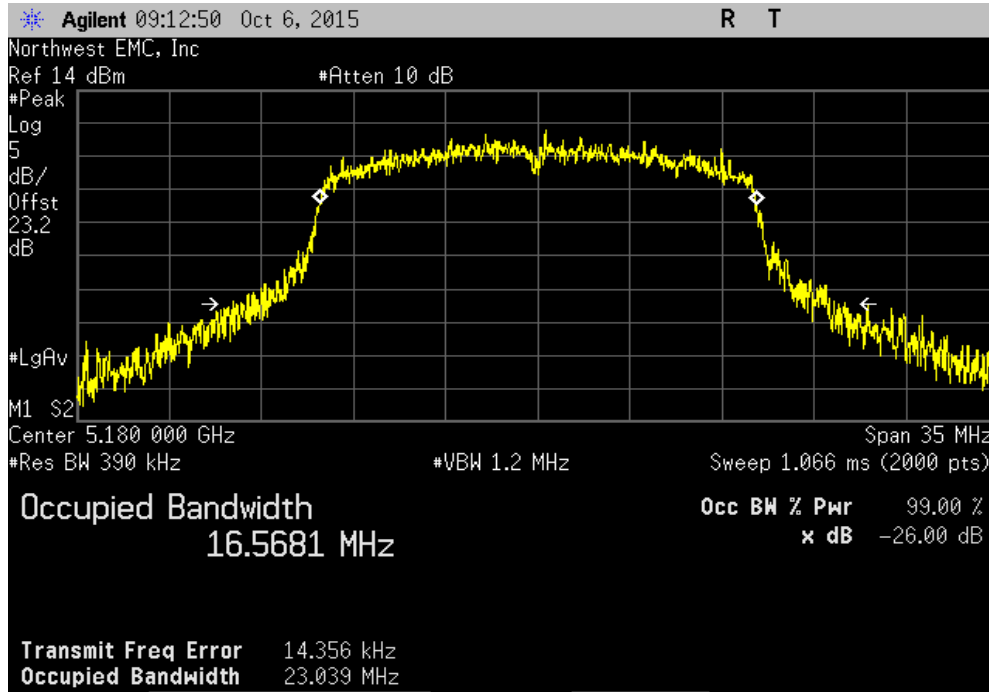


Ant 2, 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz			
	Value	Limit (N/A)	Result
	23.424 MHz	N/A	N/A

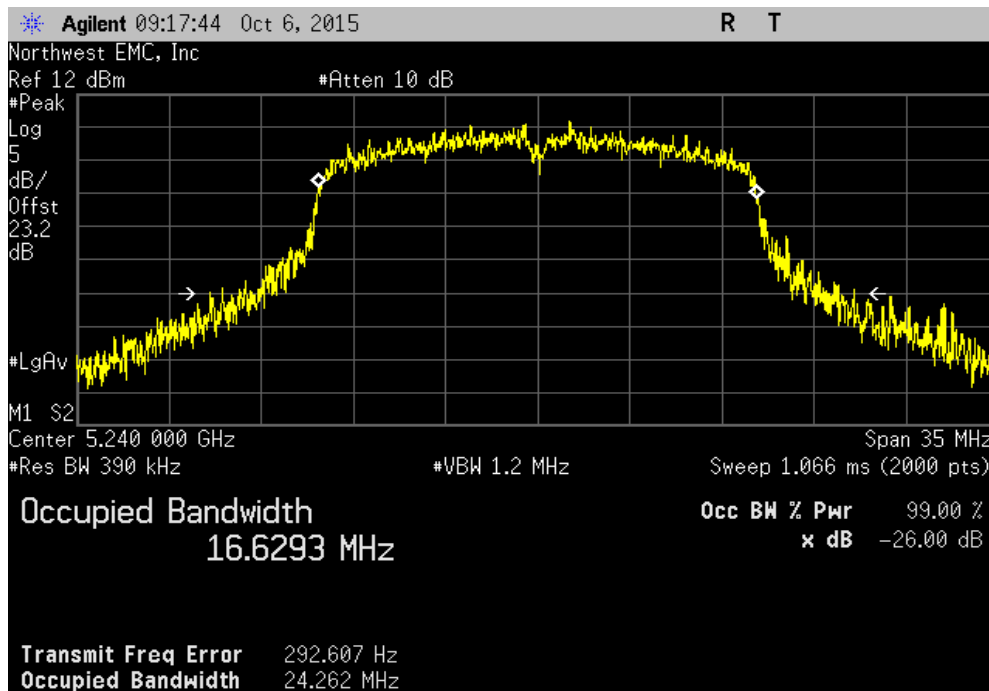


EMISSION BANDWIDTH

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

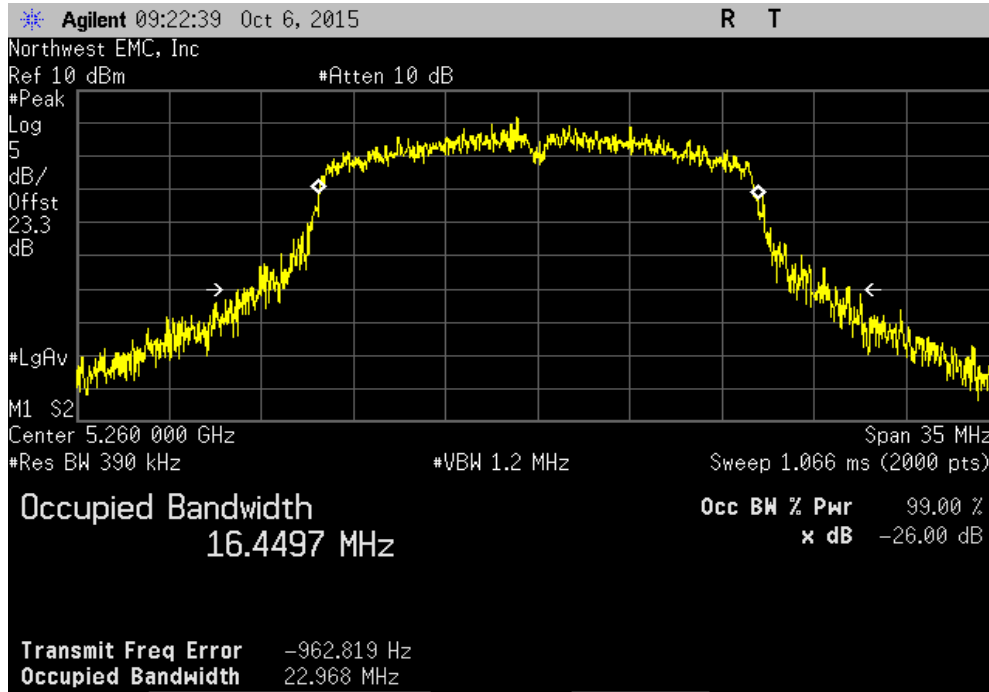


Ant 2, 802.11(a) 36 Mbps, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz			
	Value	Limit (N/A)	Result
	24.262 MHz	N/A	N/A

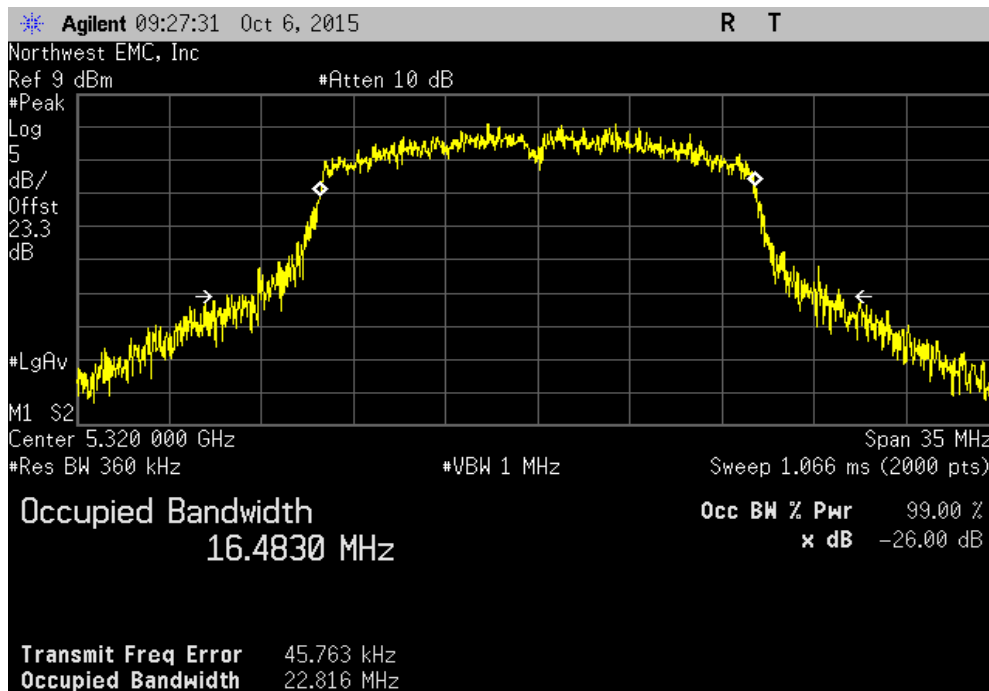


EMISSION BANDWIDTH

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

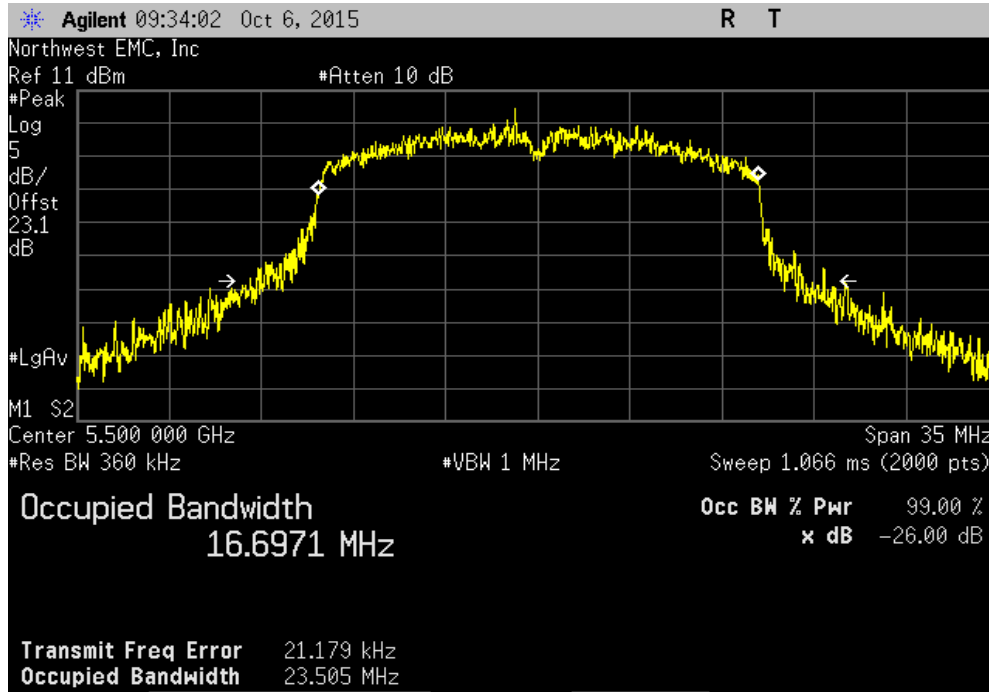


Ant 2, 802.11(a) 36 Mbps, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz			
	Value	Limit (N/A)	Result
	22.816 MHz	N/A	N/A

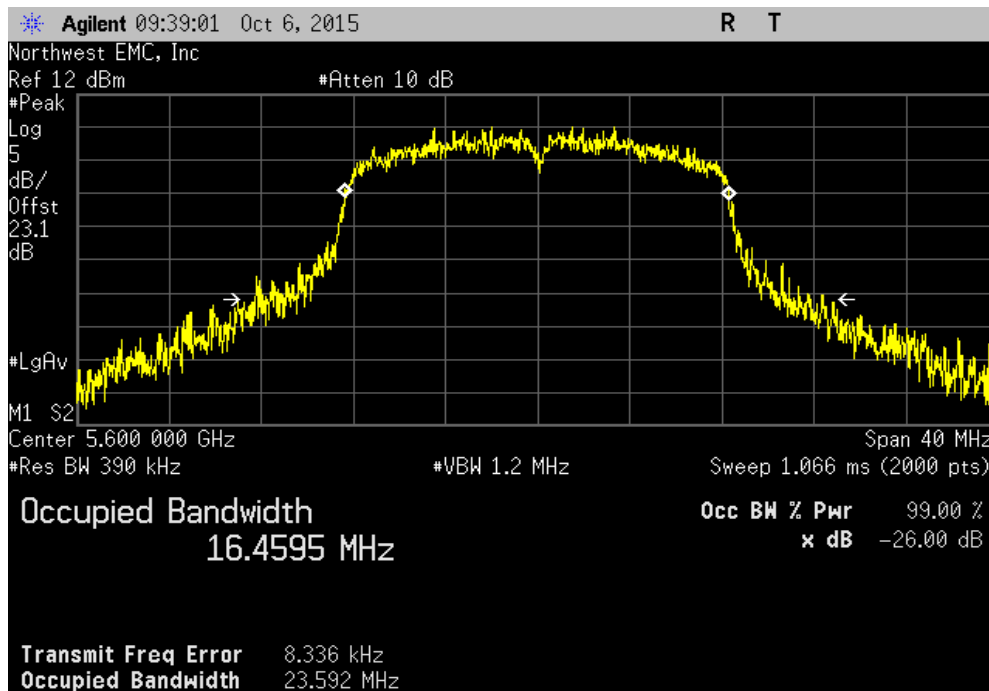


EMISSION BANDWIDTH

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

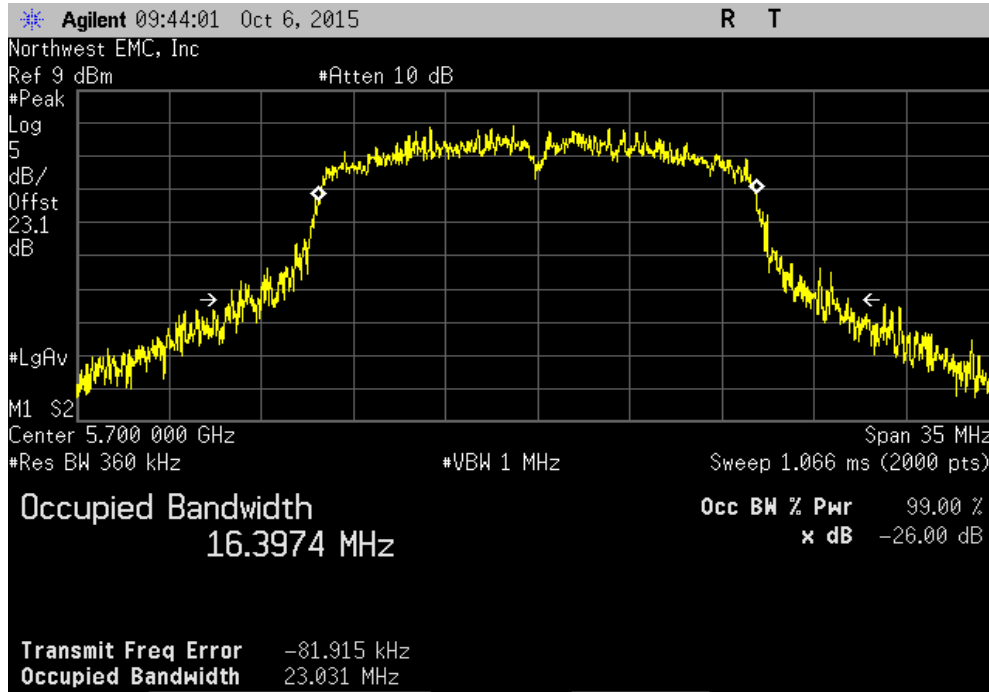


Ant 2, 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz						
				Value	Limit (N/A)	Result
				23.592 MHz	N/A	N/A

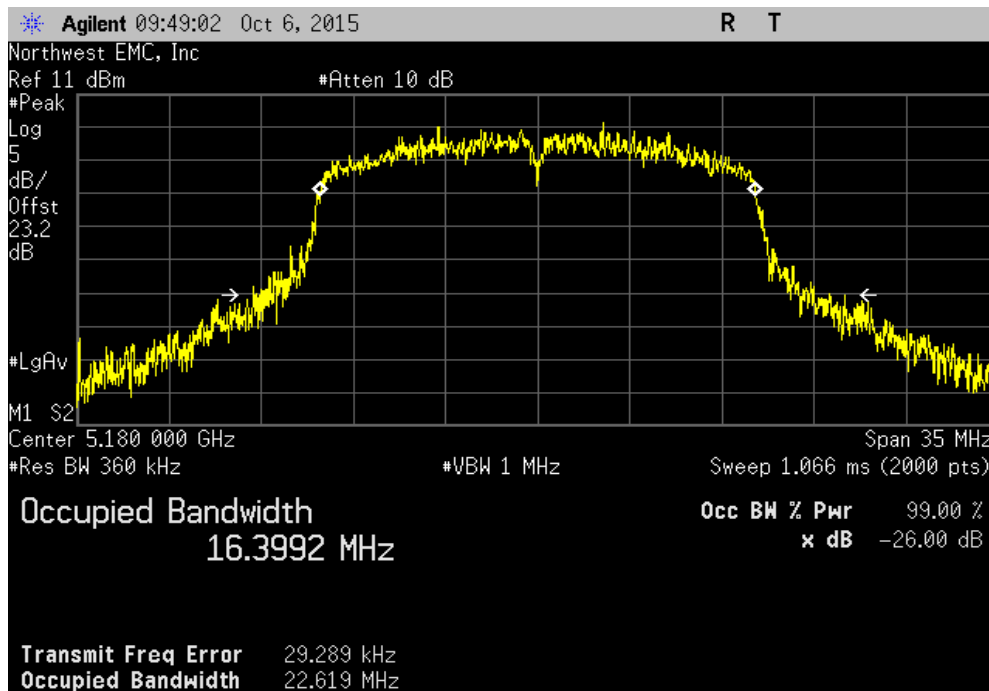


EMISSION BANDWIDTH

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

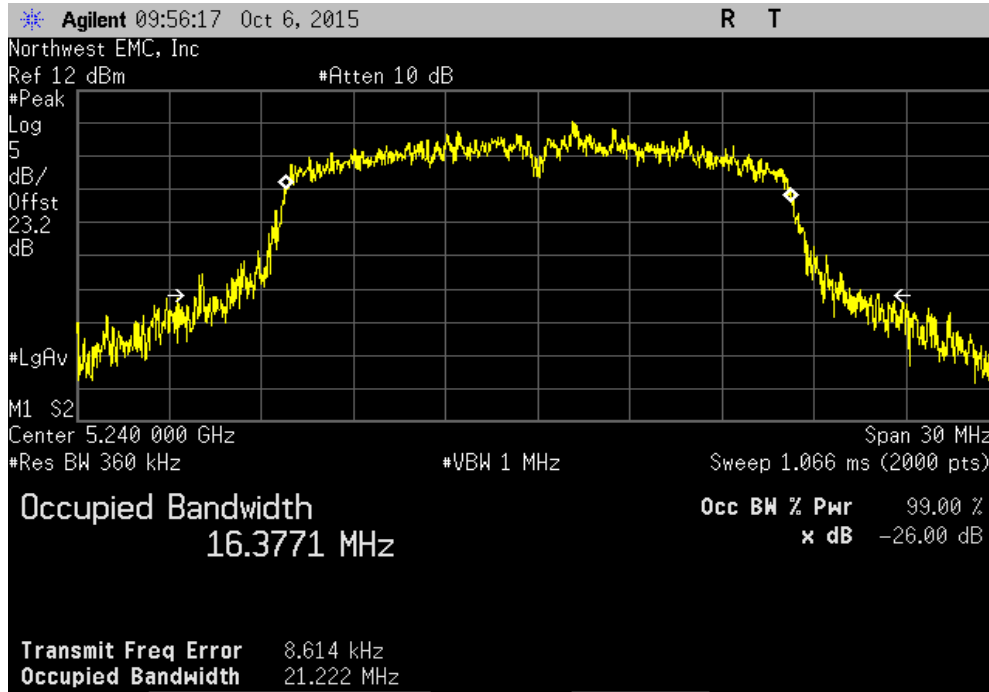


Ant 2, 802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz			
	Value	Limit (N/A)	Result
	22.619 MHz	N/A	N/A

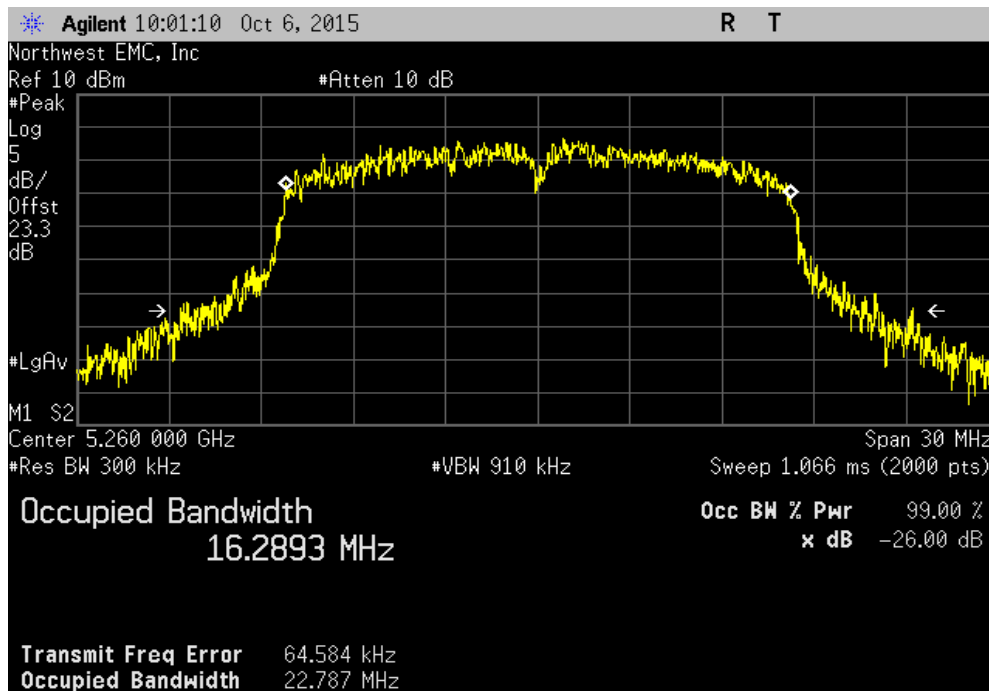


EMISSION BANDWIDTH

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

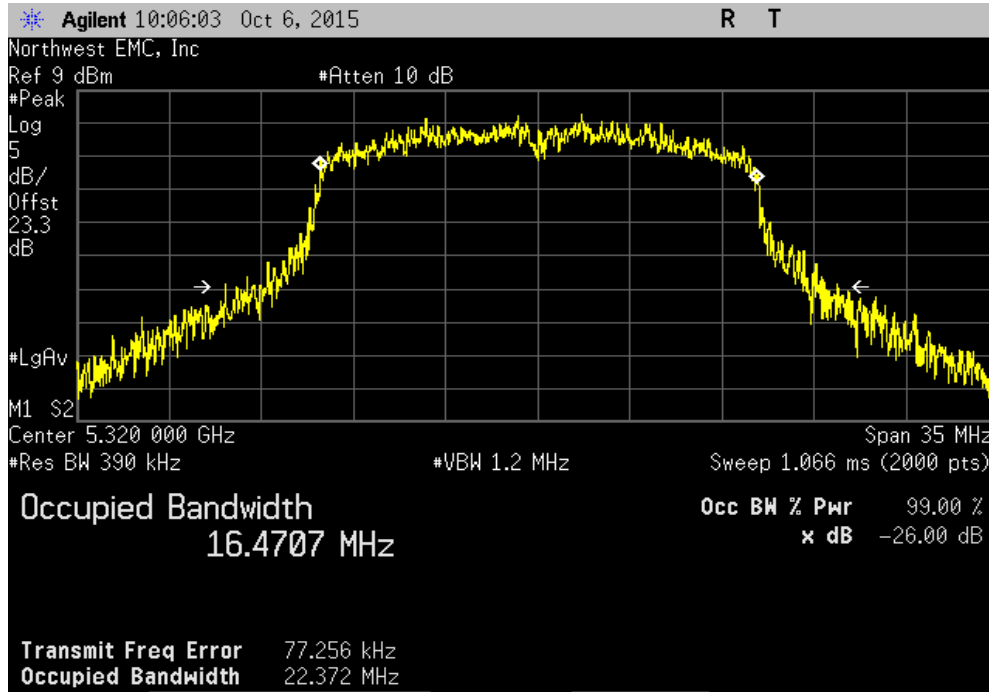


Ant 2, 802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz			
	Value	Limit (N/A)	Result
	22.787 MHz	N/A	N/A

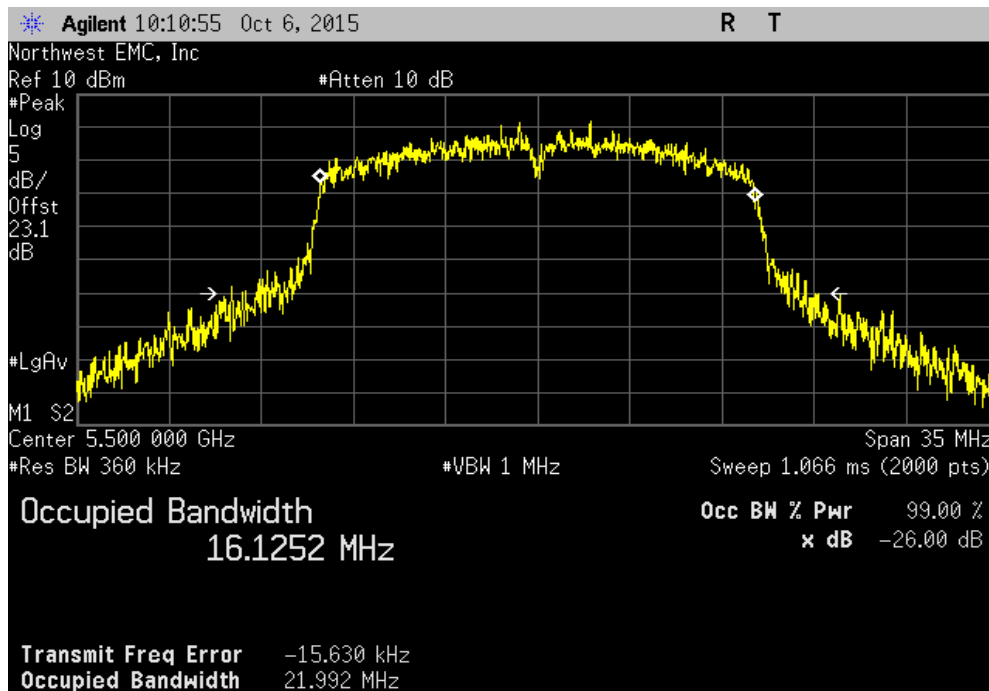


EMISSION BANDWIDTH

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

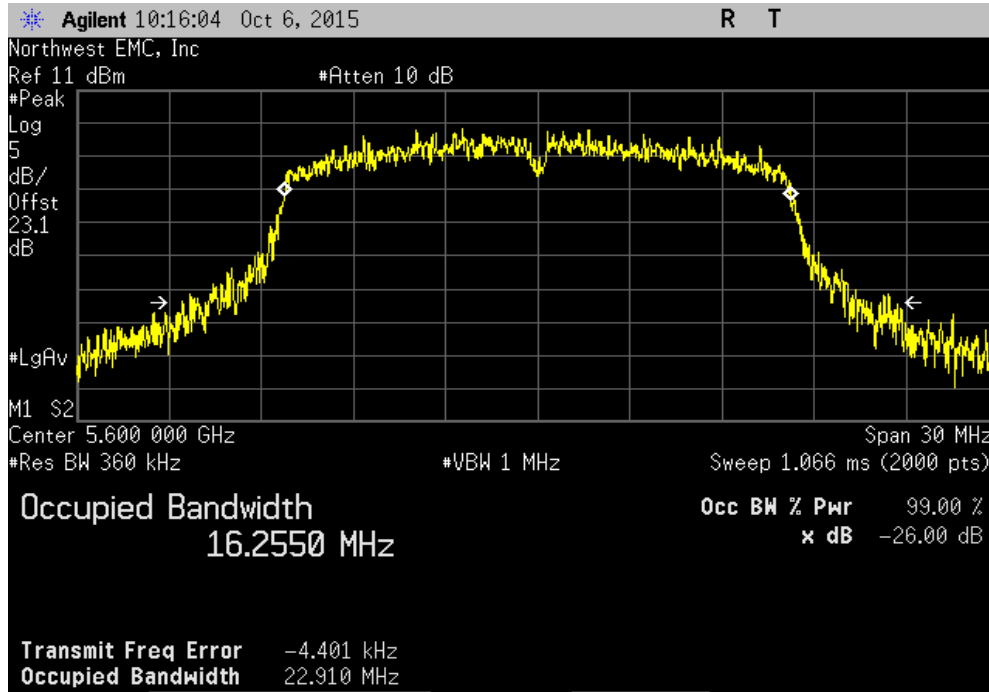


Ant 2, 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz			
	Value	Limit (N/A)	Result
	21.992 MHz	N/A	N/A

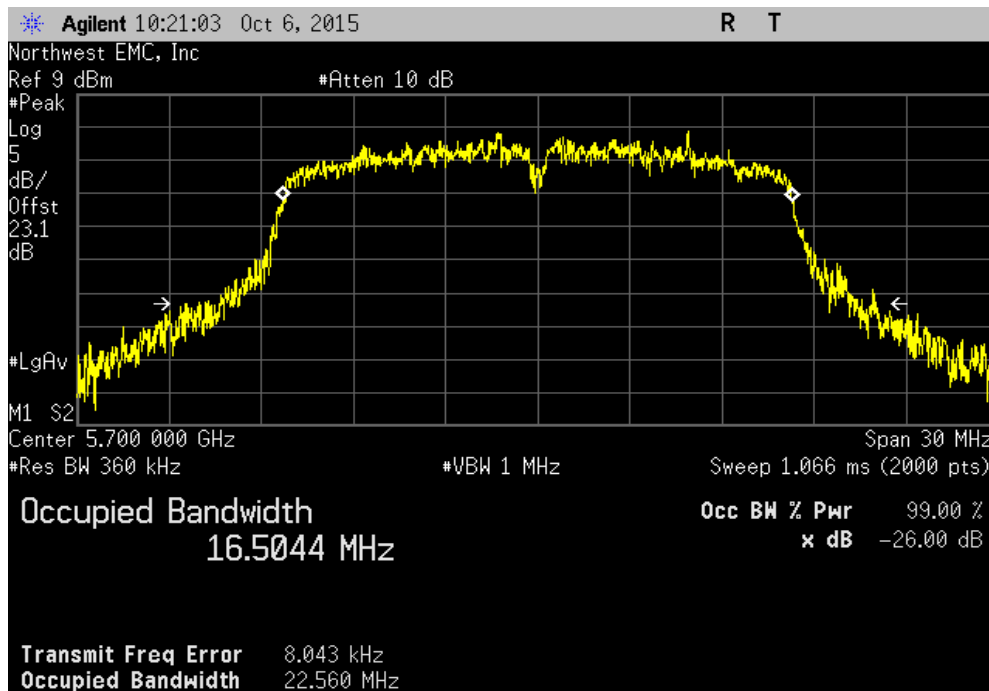


EMISSION BANDWIDTH

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

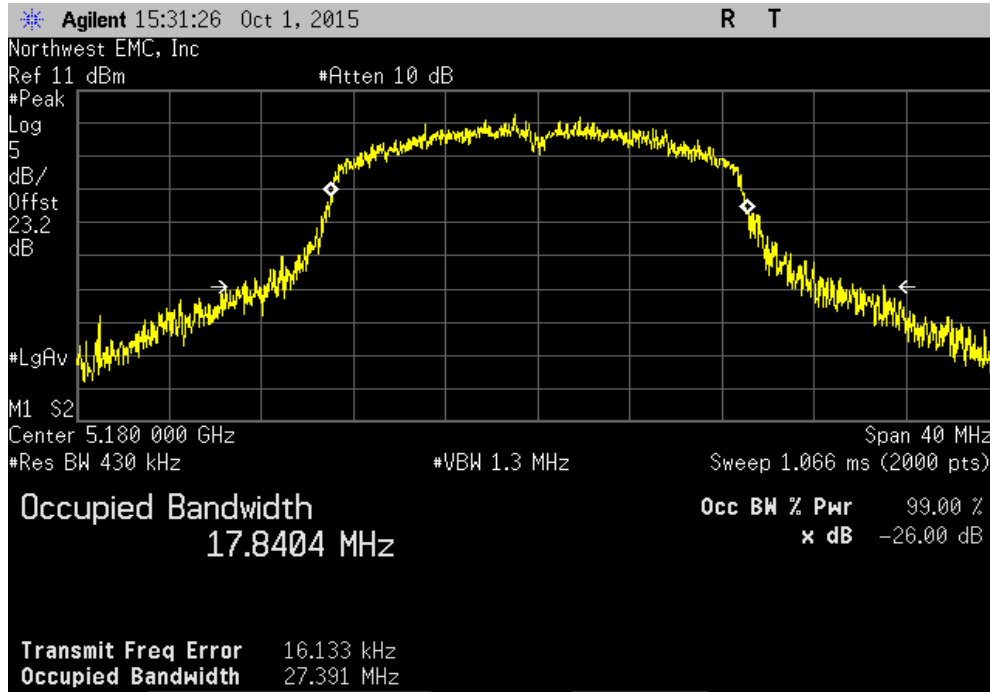


Ant 2, 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, High Channel 140, 5700 MHz						
				Value	Limit (N/A)	Result
				22.56 MHz	N/A	N/A

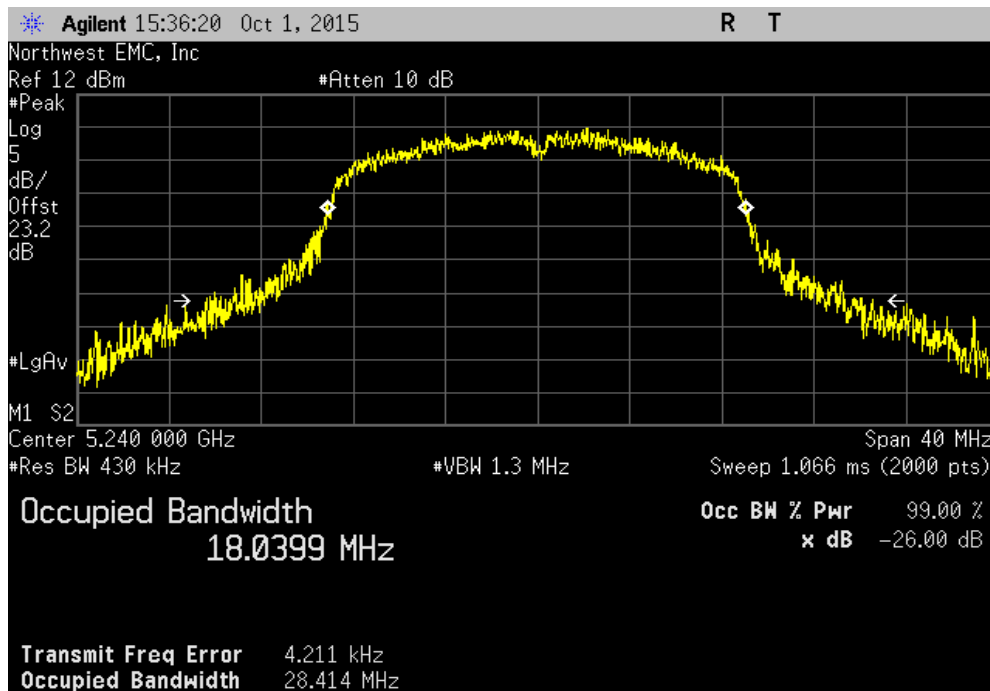


EMISSION BANDWIDTH

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

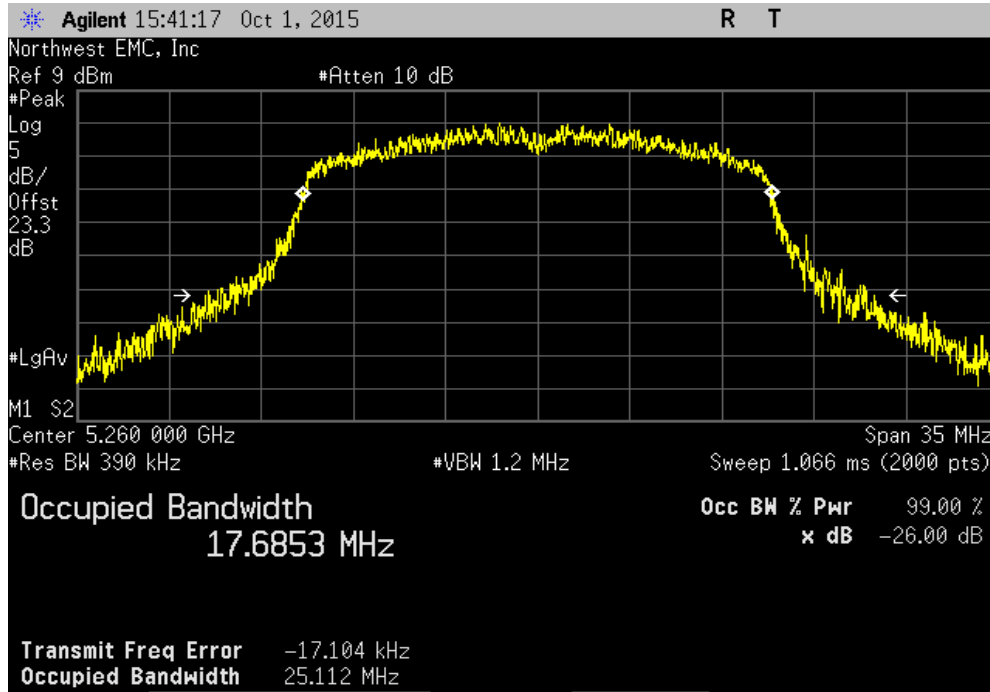


Ant 2, 802.11(n) MCS0, 5150 - 5250 MHz Band, High Channel 48, 5240 MHz			
	Value	Limit (N/A)	Result
	28.414 MHz	N/A	N/A

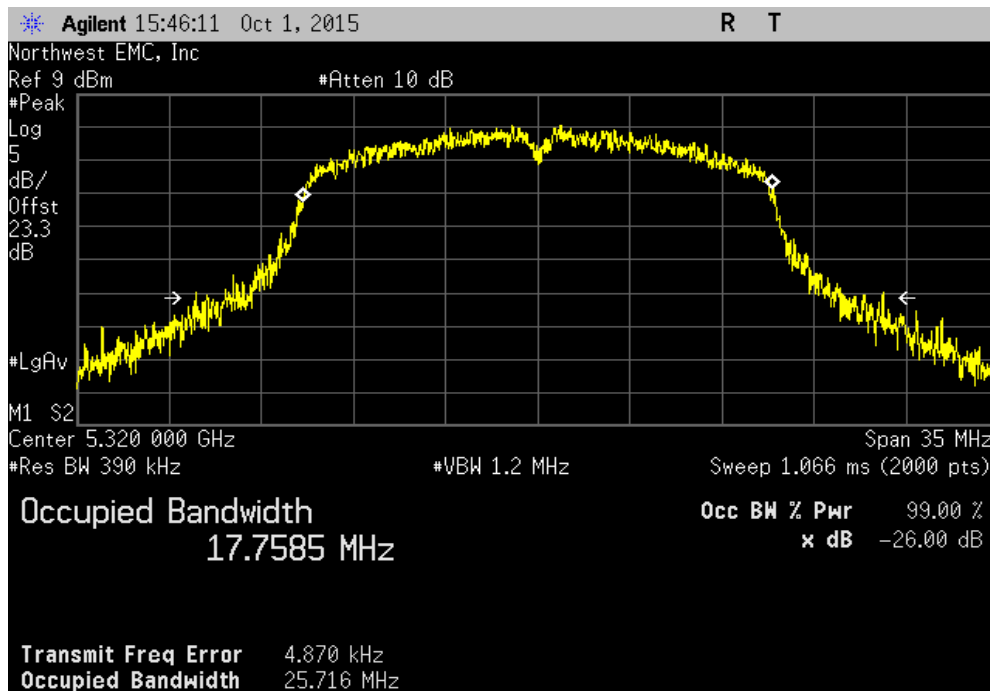


EMISSION BANDWIDTH

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

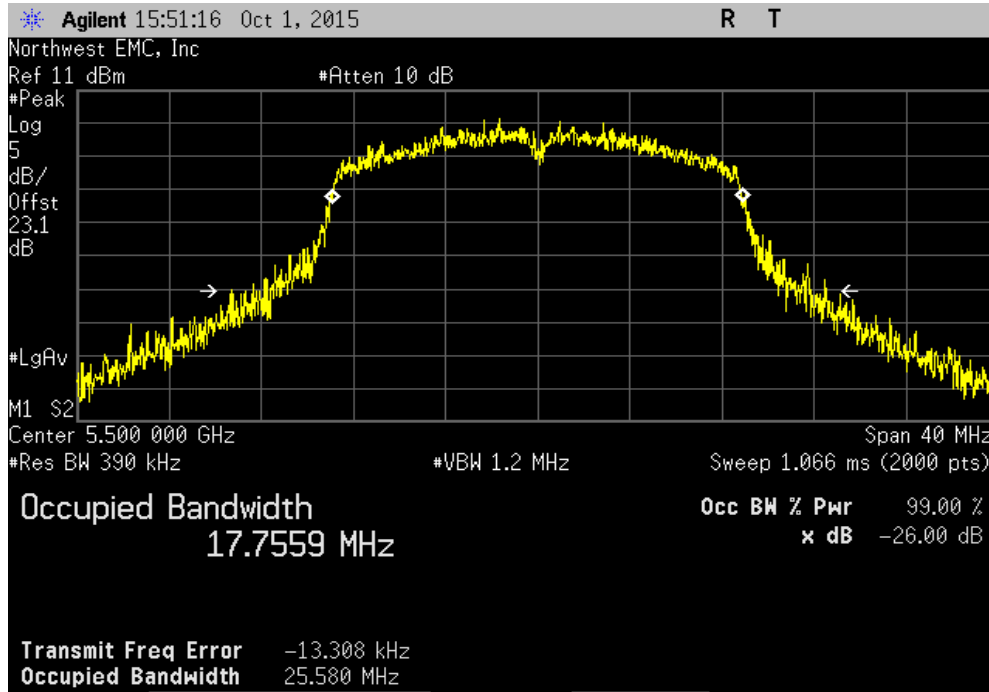


Ant 2, 802.11(n) MCS0, 5250 - 5350 MHz Band, High Channel 64, 5320 MHz			
	Value	Limit (N/A)	Result
	25.716 MHz	N/A	N/A

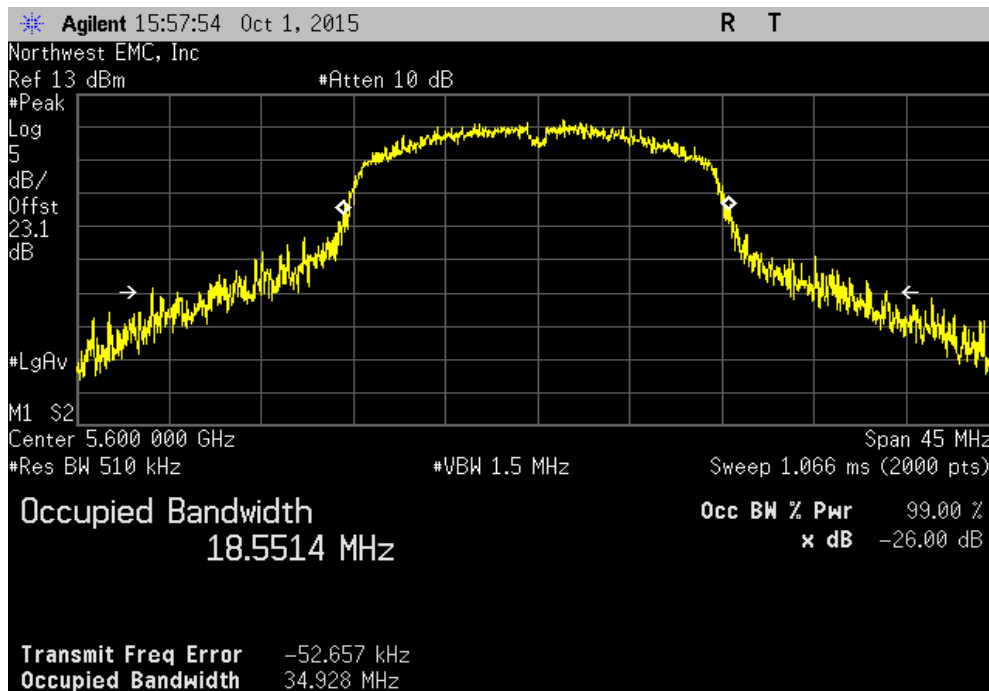


EMISSION BANDWIDTH

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

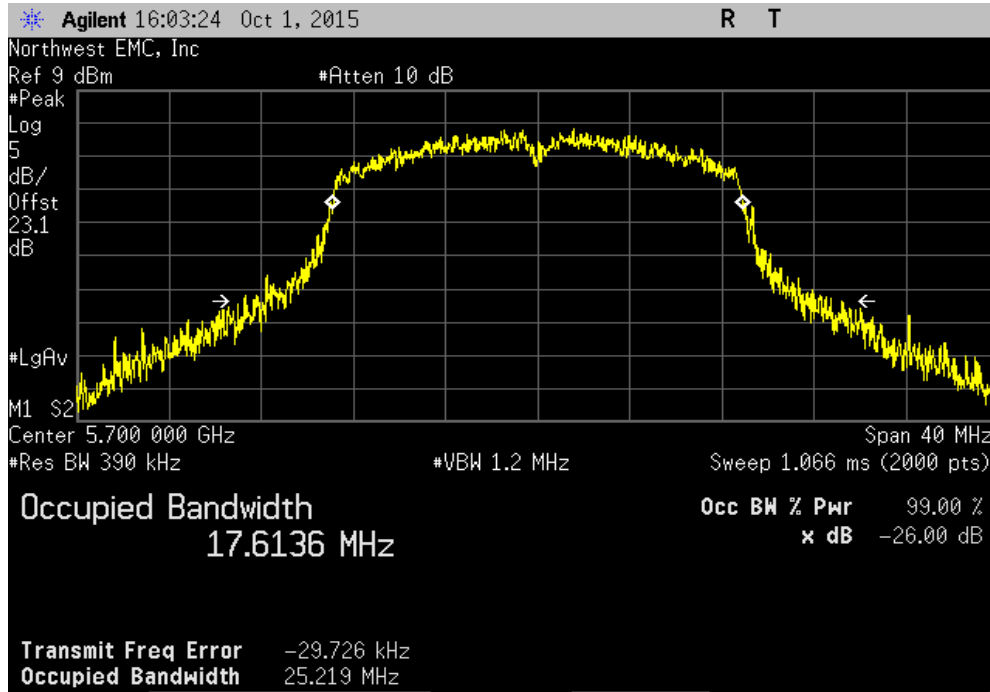


Ant 2, 802.11(n) MCS0, 5470 - 5725 MHz Band, Mid Channel 120, 5600 MHz			
	Value	Limit (N/A)	Result
	34.928 MHz	N/A	N/A

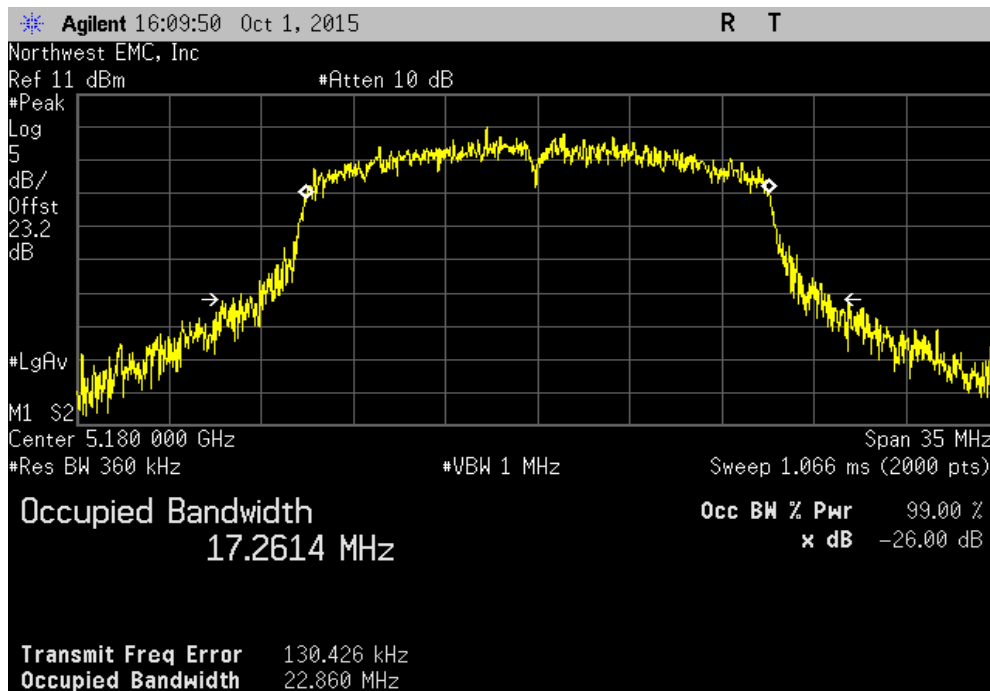


EMISSION BANDWIDTH

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

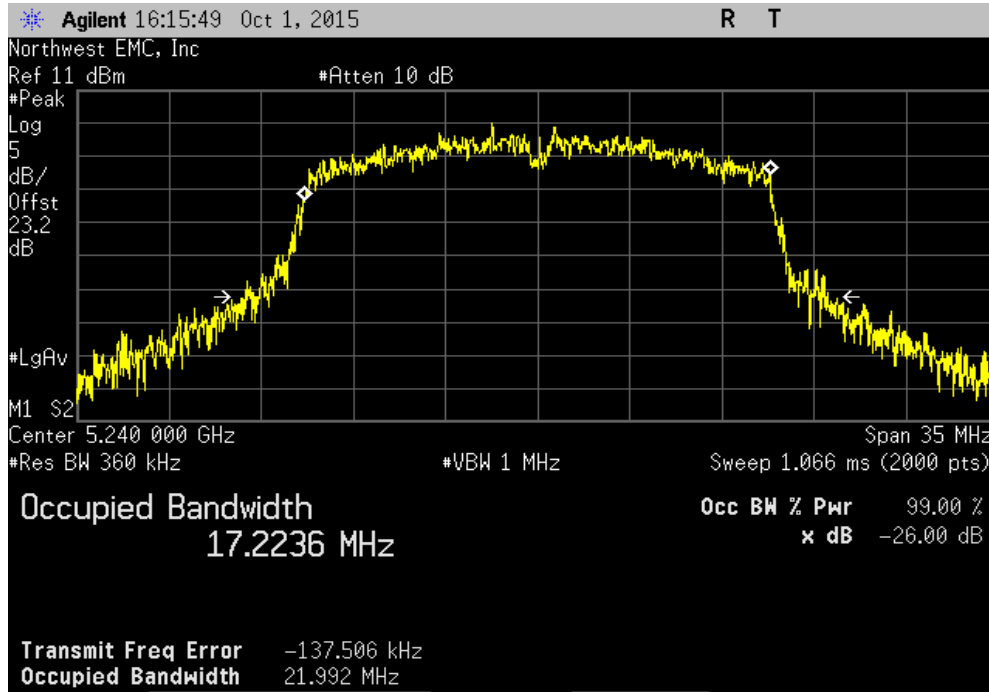


Ant 2, 802.11(n) MCS7, 5150 - 5250 MHz Band, Low Channel 36, 5180 MHz						
				Value	Limit (N/A)	Result
				22.86 MHz	N/A	N/A

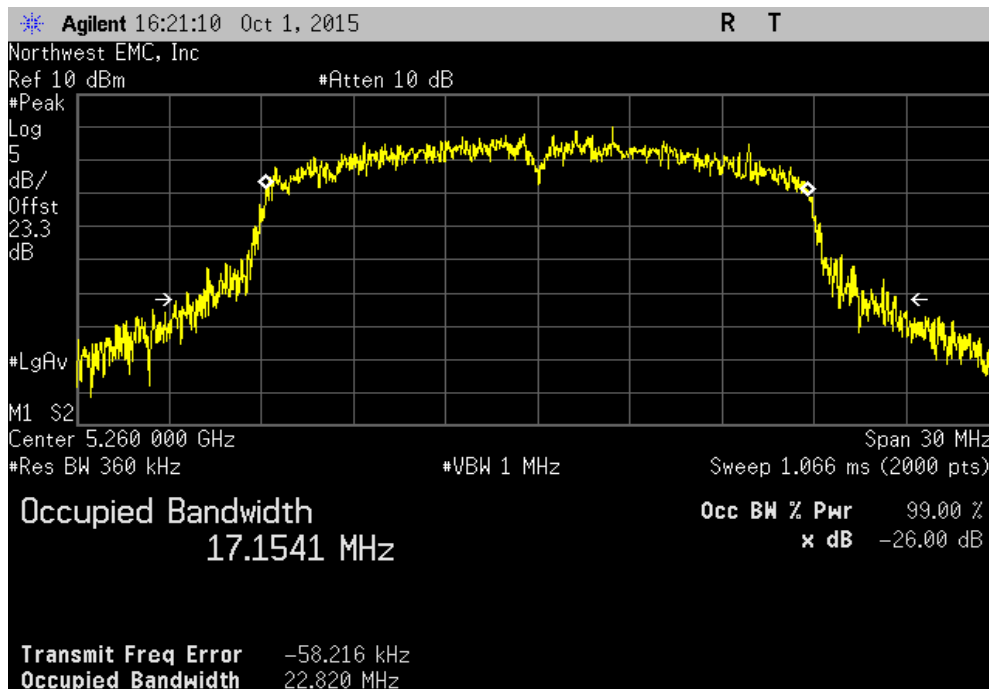


EMISSION BANDWIDTH

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

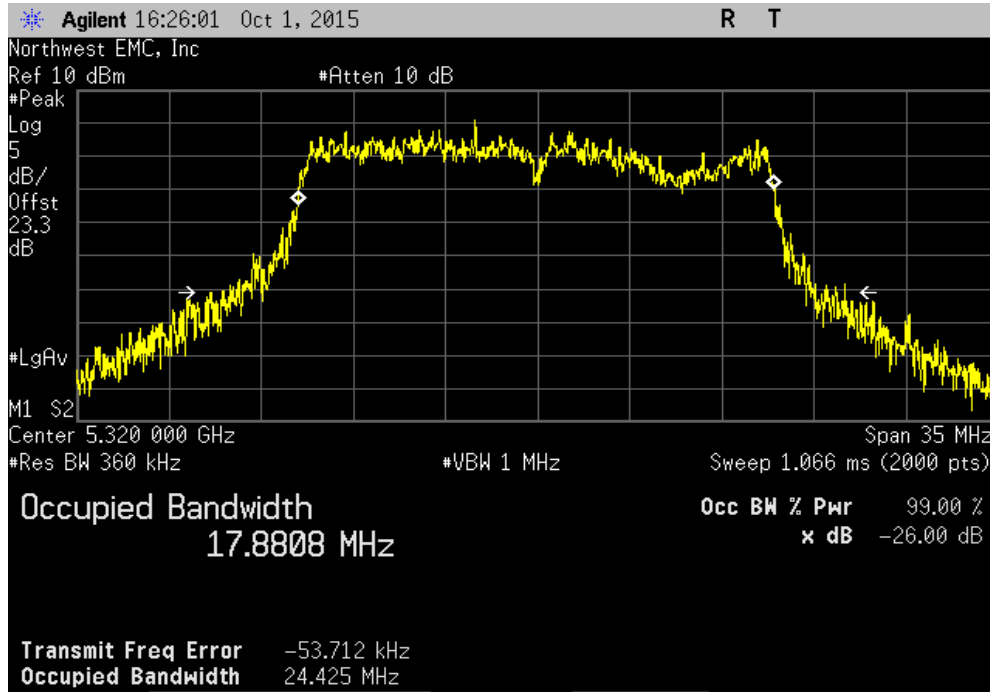


Ant 2, 802.11(n) MCS7, 5250 - 5350 MHz Band, Low Channel 52, 5260 MHz						
				Value	Limit (N/A)	Result
				22.82 MHz	N/A	N/A

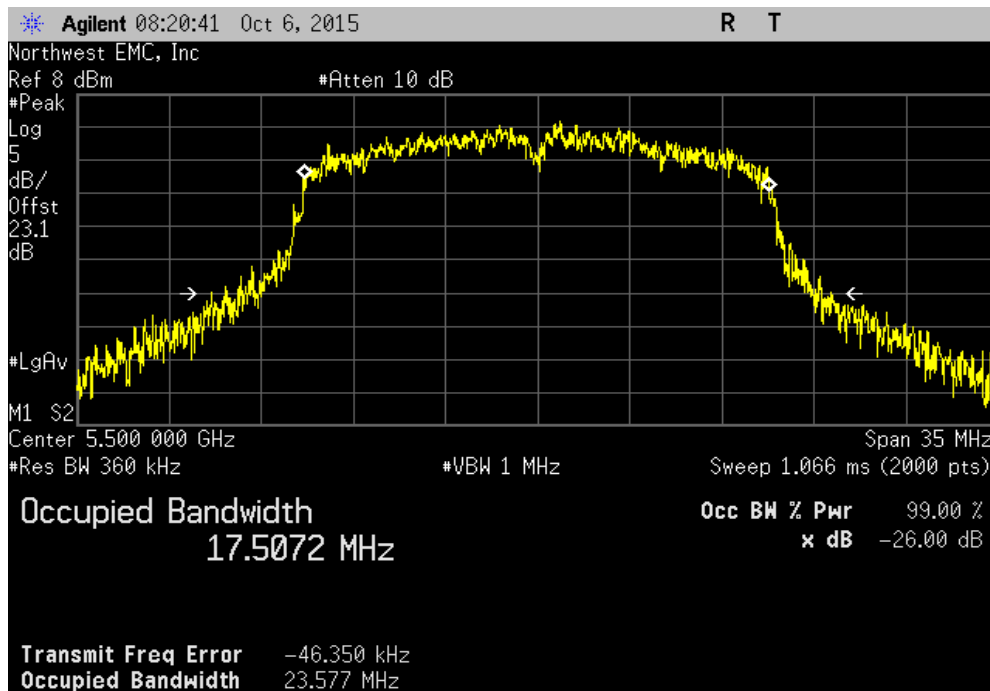


EMISSION BANDWIDTH

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

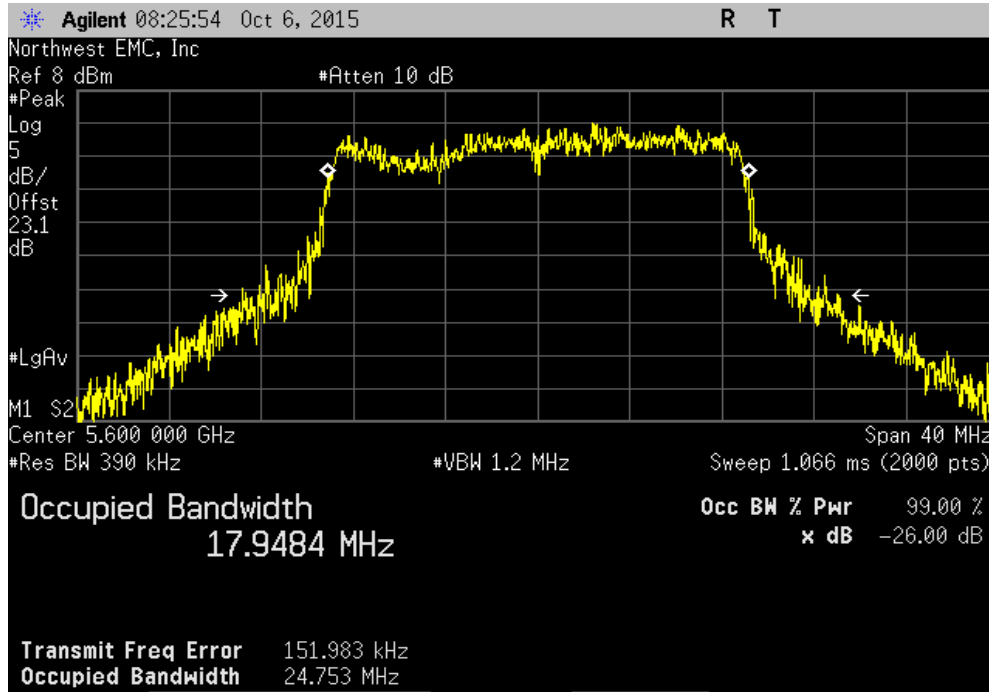


Ant 2, 802.11(n) MCS7, 5470 - 5725 MHz Band, Low Channel 100, 5500 MHz			
	Value	Limit (N/A)	Result
	23.577 MHz	N/A	N/A

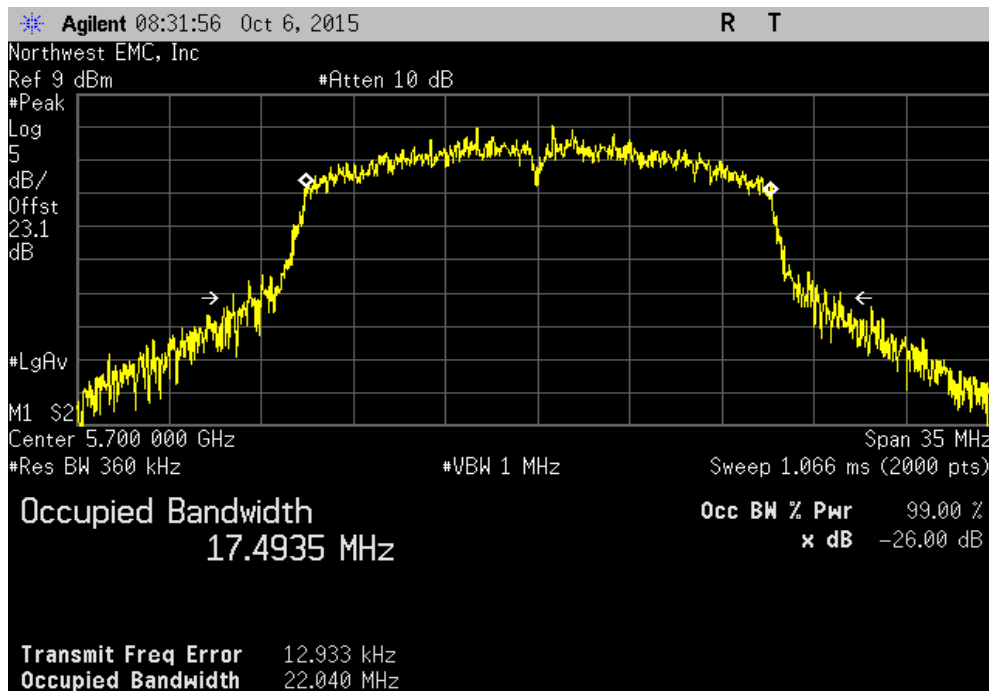


EMISSION BANDWIDTH

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 = $\geq 3x$ 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

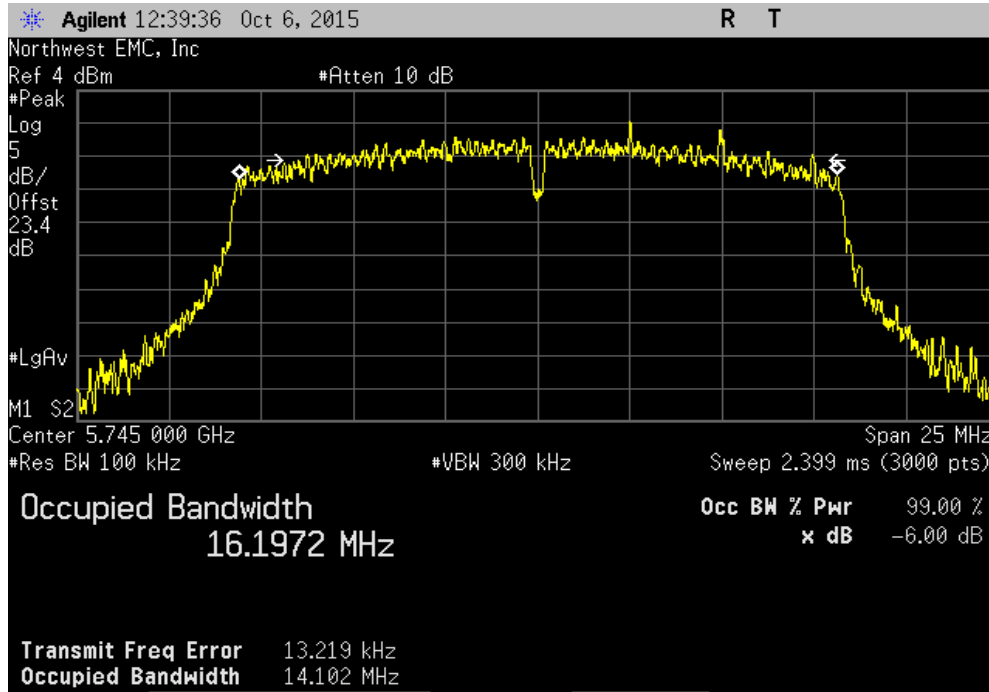


XMtr 2015.01.14

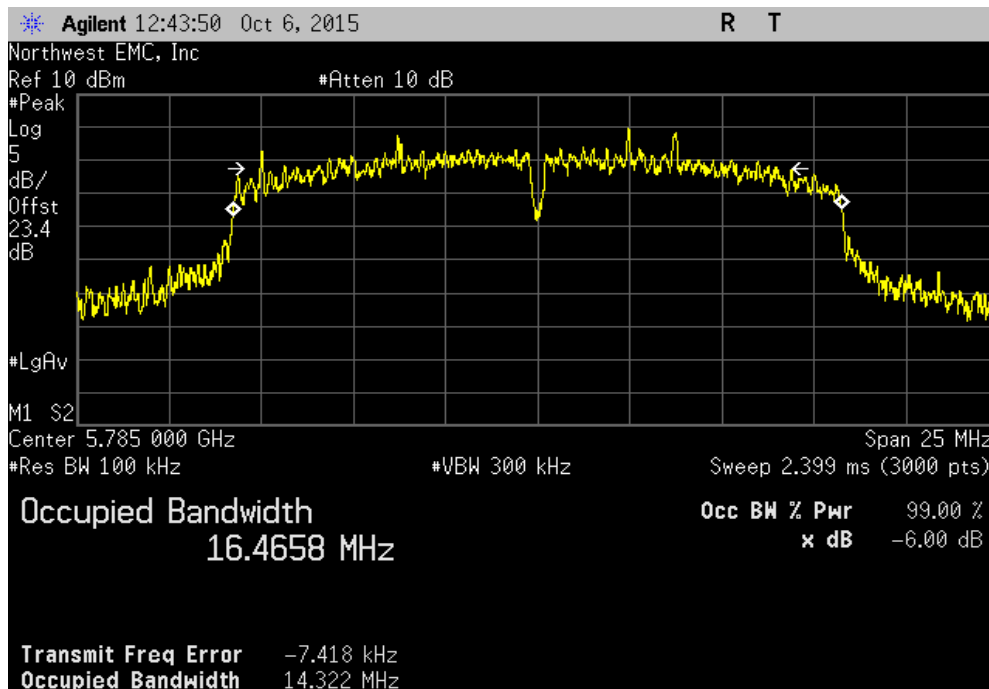
EUT: Precor Wi-Fi / Bluetooth Module Model 303346		Work Order: PRCR0230
Serial Number: None		Date: 10/06/15
Customer: Precor, Inc.		Temperature: 23°C
Attendees: Rich Whitbeck		Humidity: 46%
Project: None		Barometric Pres.: 1015mb
Tested by: Richard Mellroth	Power: 110VAC/60Hz	Job Site: NC02
TEST SPECIFICATIONS		
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 (>) 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

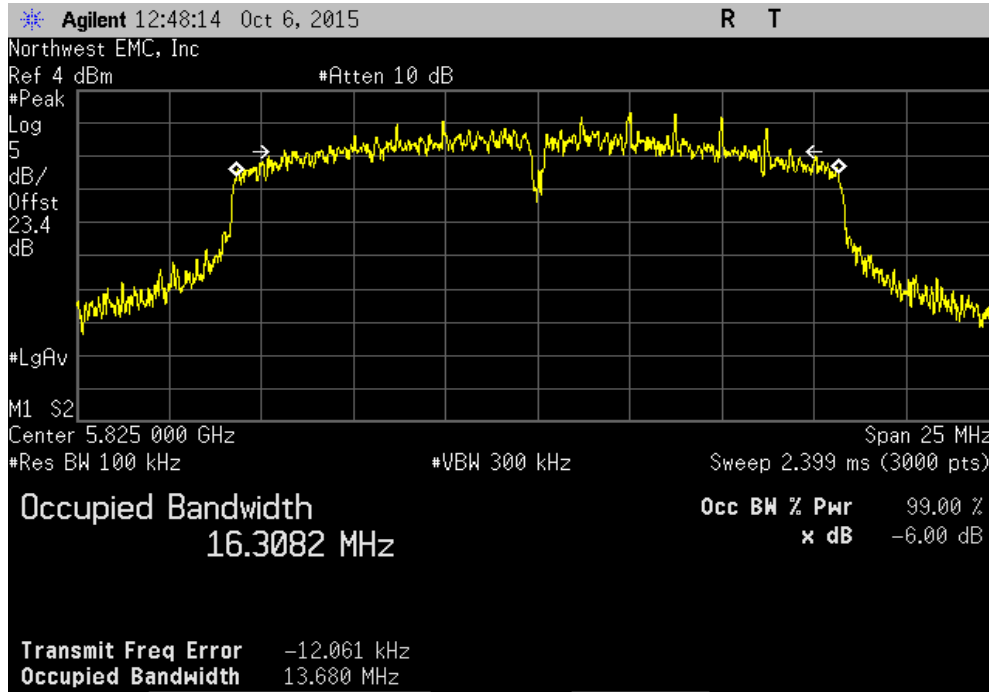


Ant 1, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
				Value	Limit	Result
				(>)		
				14.322 MHz	500 kHz	Pass

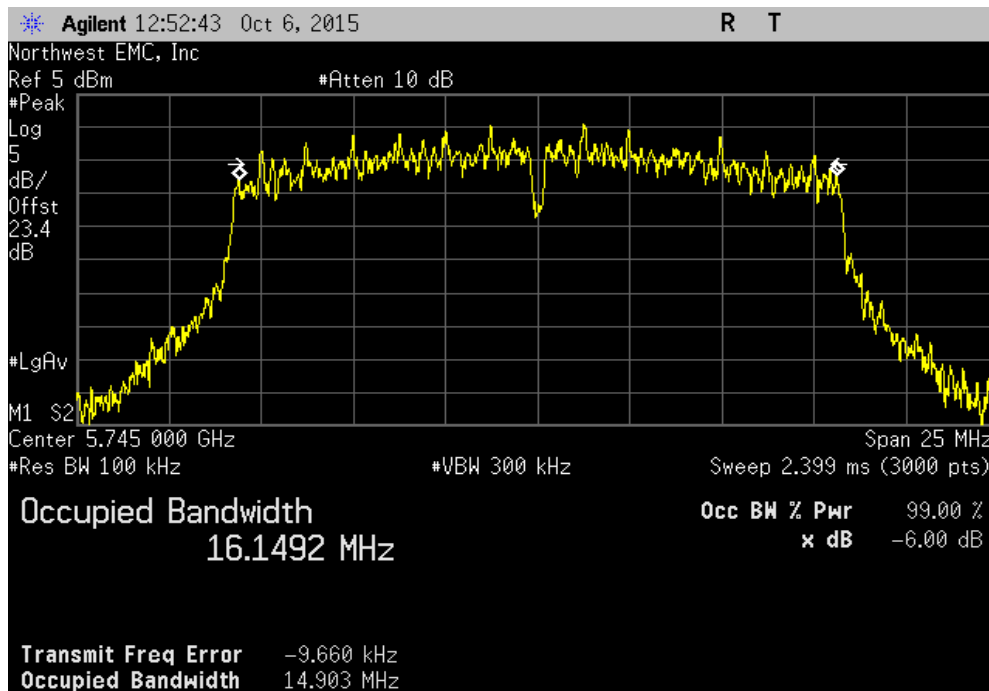


OCCUPIED BANDWIDTH

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

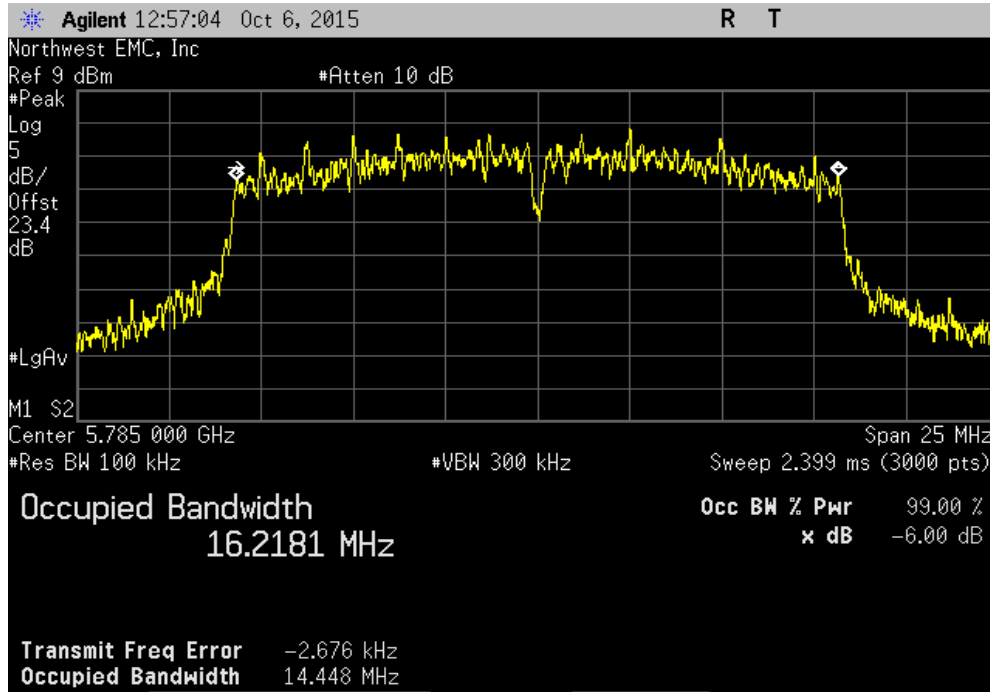


Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
				Value	Limit	Result
				14.903 MHz	500 kHz	Pass

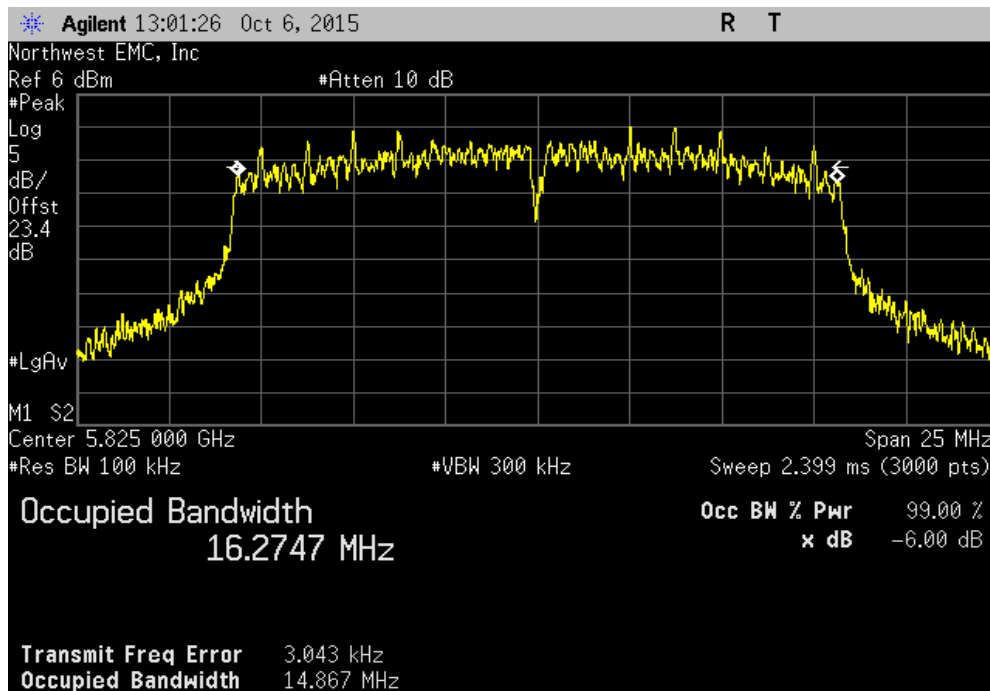


OCCUPIED BANDWIDTH

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	

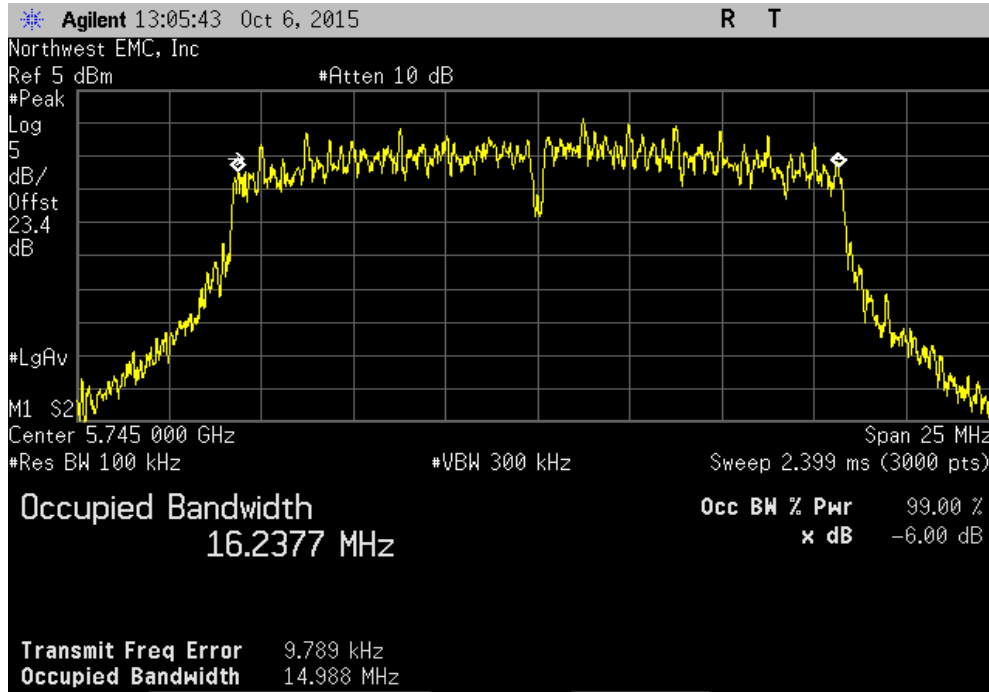


Ant 1, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
			Value	Limit	Result	
				(>)		
			14.867 MHz	500 kHz	Pass	

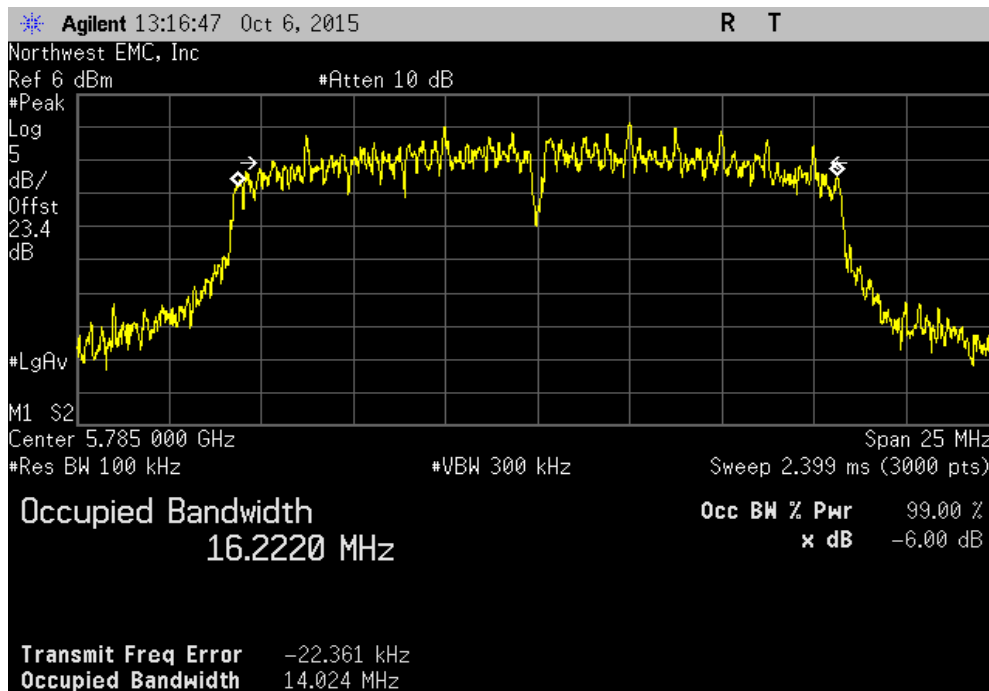


OCCUPIED BANDWIDTH

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

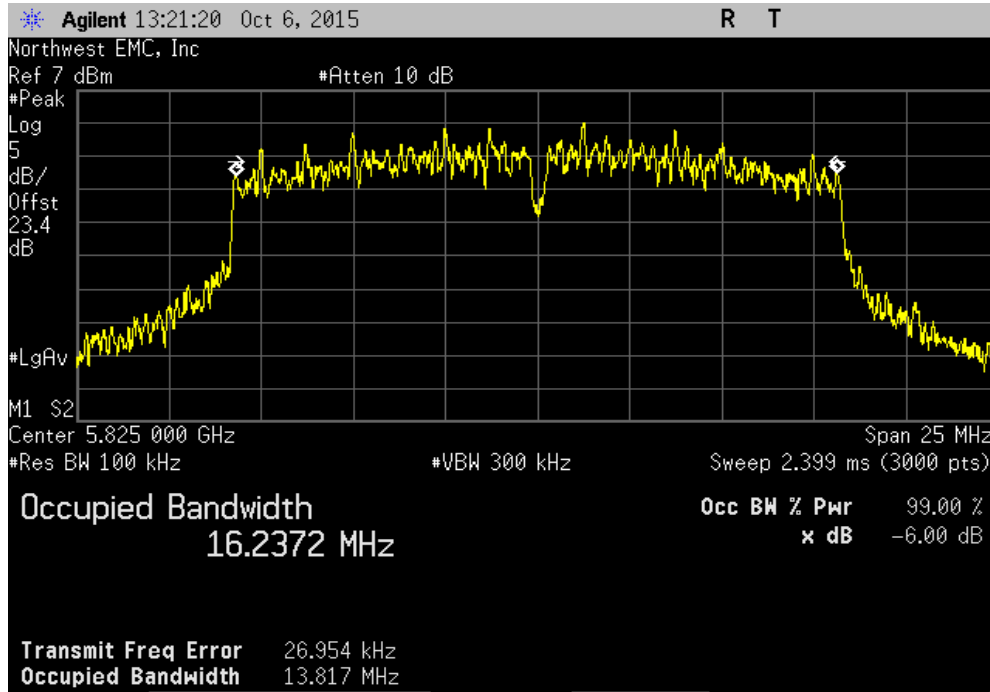


Ant 1, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz		
Value	Limit	Result
14.024 MHz	500 kHz	Pass

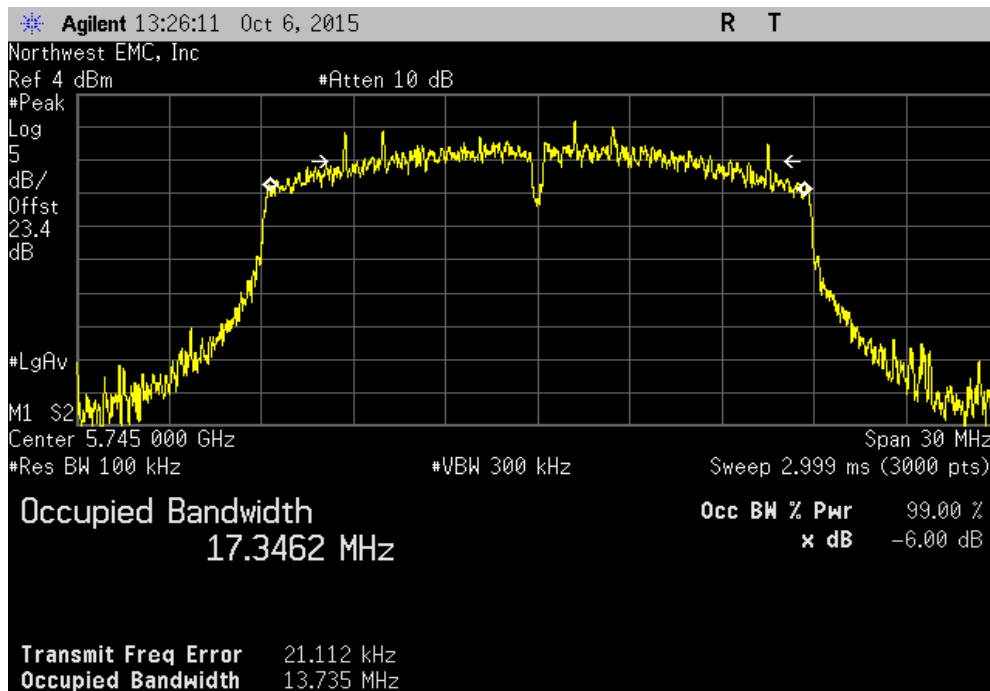


OCCUPIED BANDWIDTH

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	

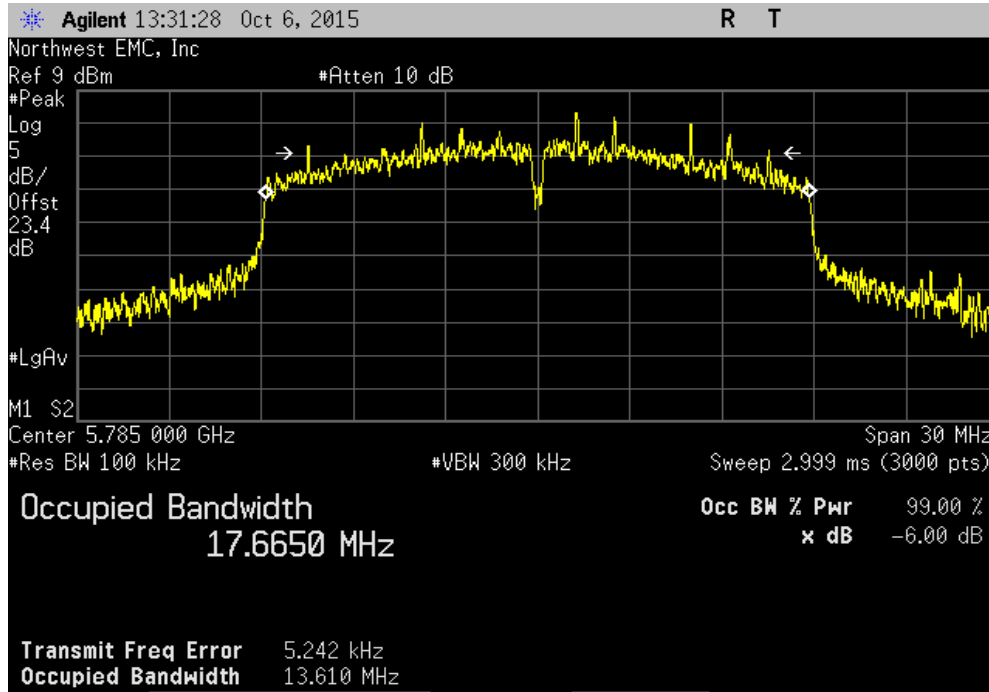


Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
			Value	Limit	Result	
				(>)		
			13.735 MHz	500 kHz	Pass	

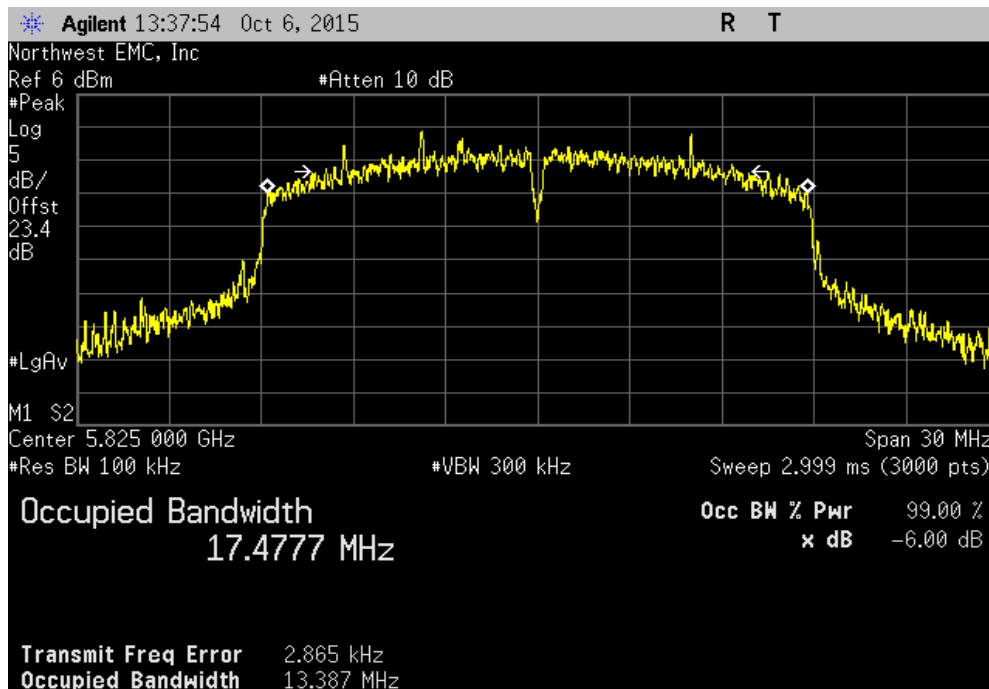


OCCUPIED BANDWIDTH

Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
				Value	Limit	Result
				13.61 MHz	500 kHz	Pass

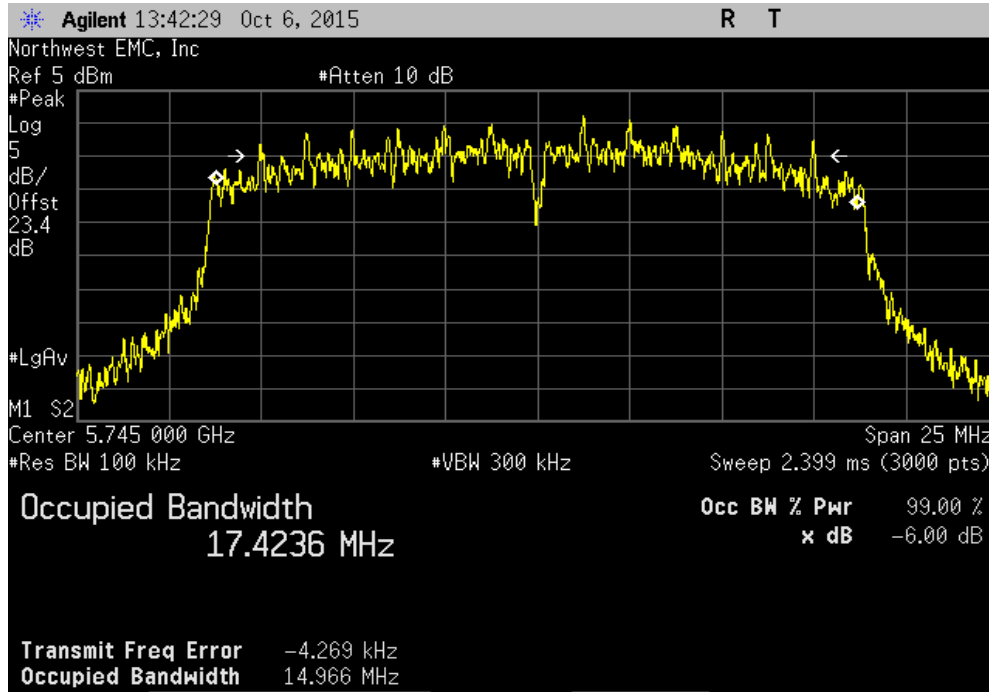


Ant 1, 802.11(n) MCS0, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
				Value	Limit	Result
				13.387 MHz	500 kHz	Pass

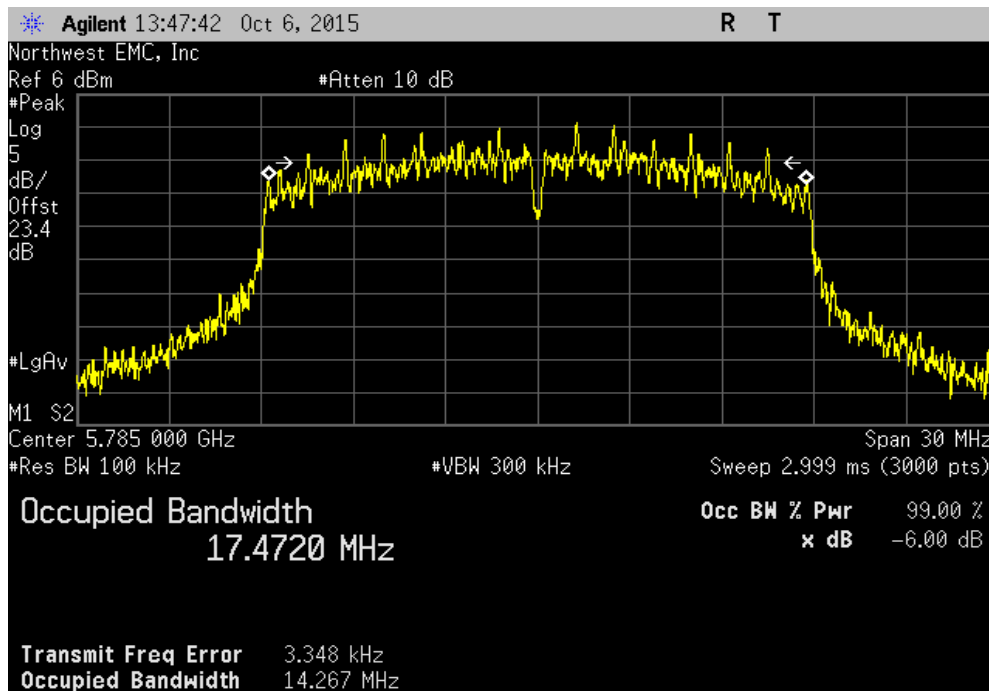


OCCUPIED BANDWIDTH

Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
			Value	Limit	Result	
			14.966 MHz	500 kHz	Pass	

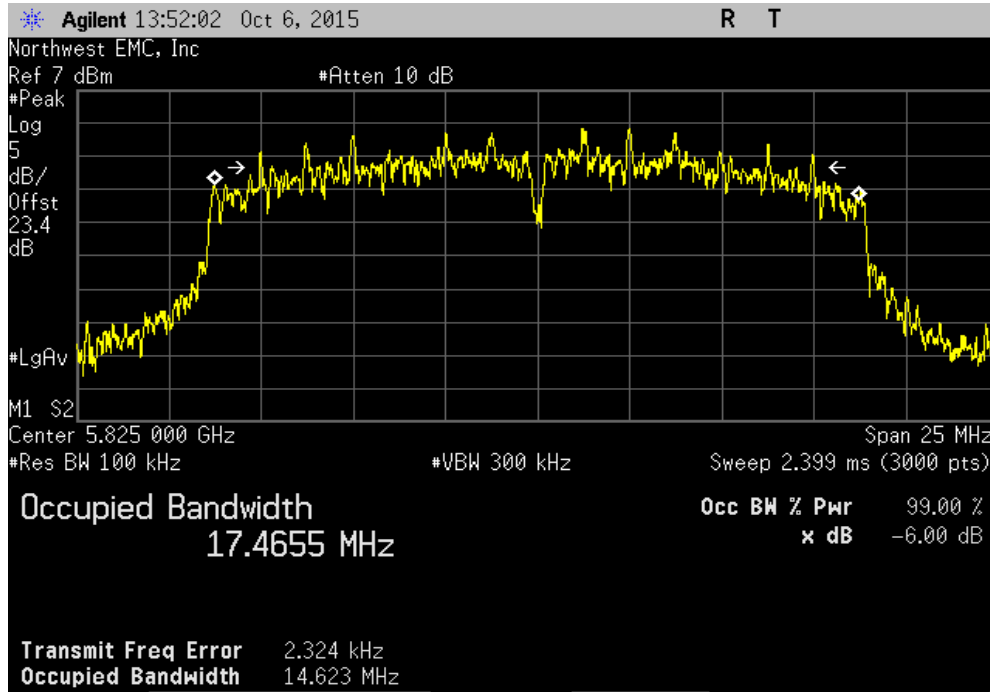


Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
			Value	Limit	Result	
			14.267 MHz	500 kHz	Pass	

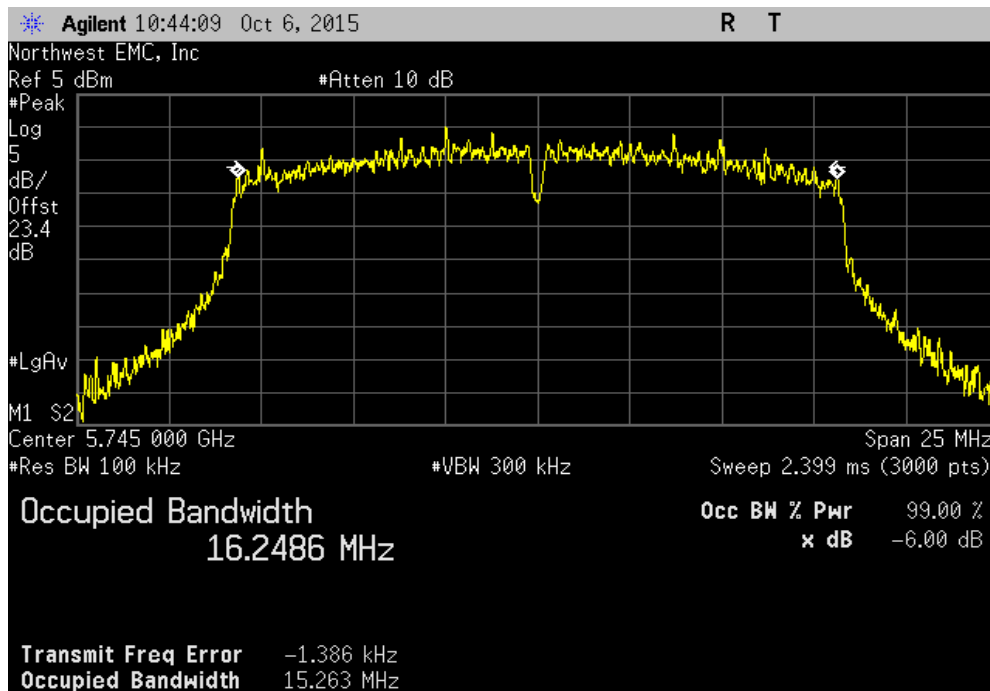


OCCUPIED BANDWIDTH

Ant 1, 802.11(n) MCS7, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
			Value	Limit	Result	
				(>)		
			14.623 MHz	500 kHz	Pass	

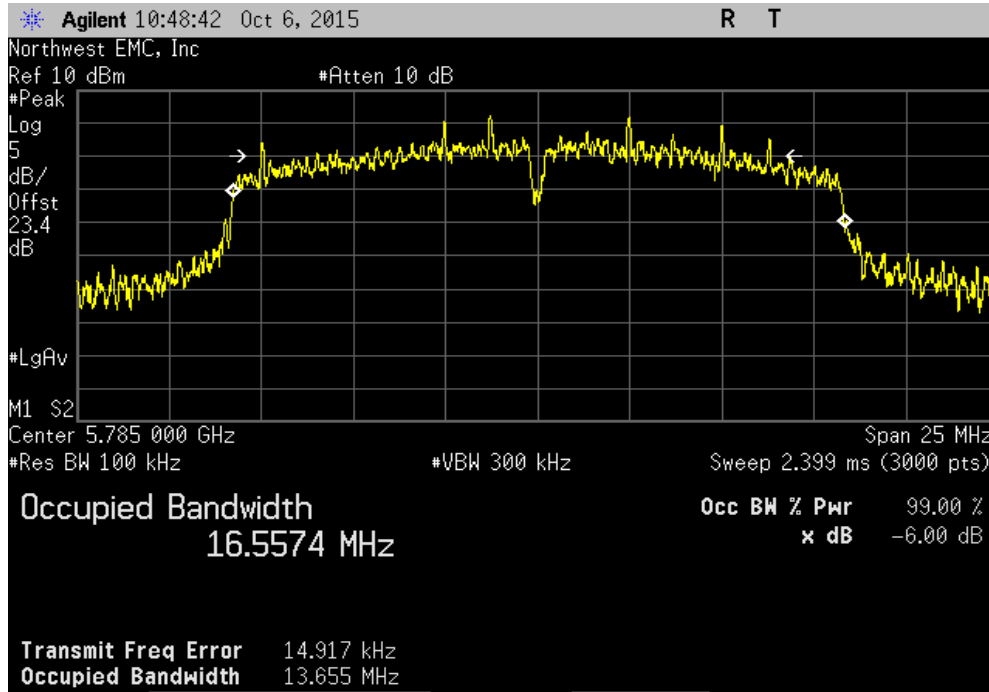


Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
			Value	Limit	Result	
				(>)		
			15.263 MHz	500 kHz	Pass	

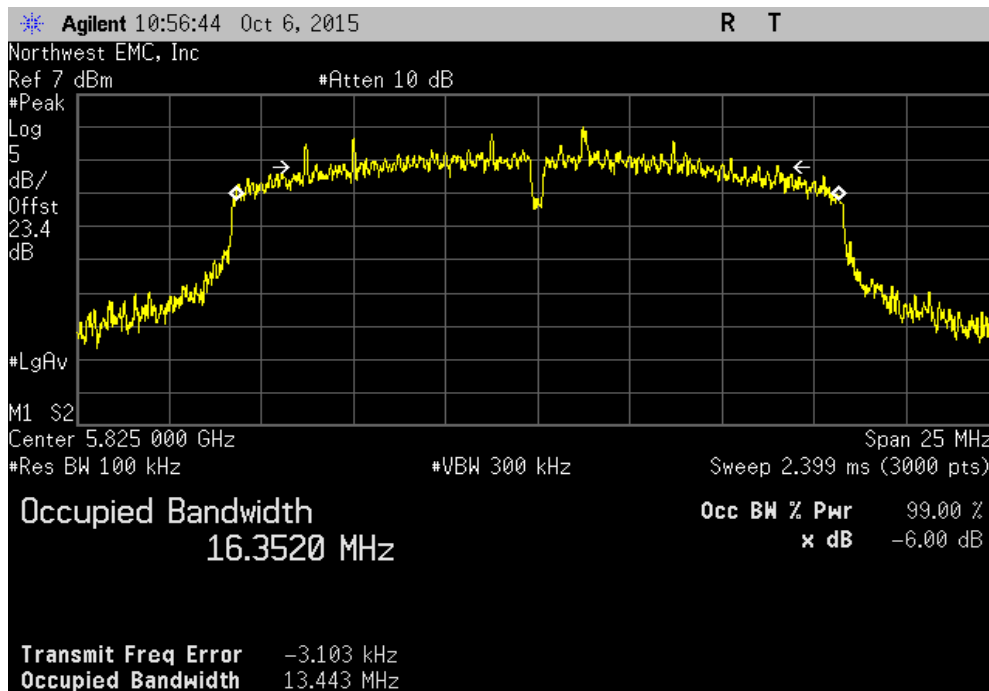


OCCUPIED BANDWIDTH

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

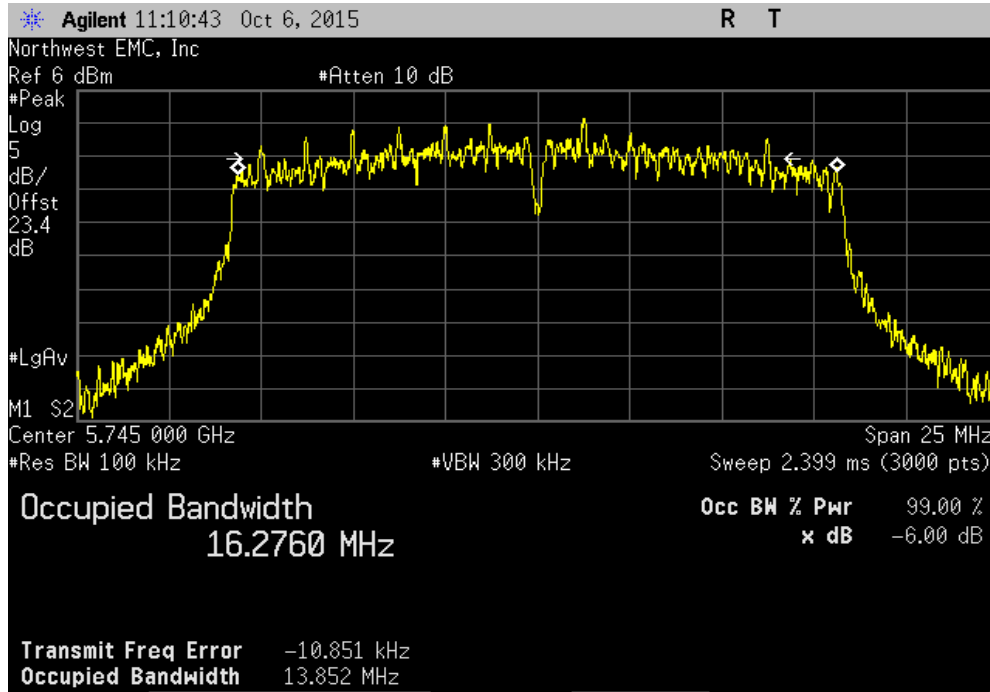


Ant 2, 802.11(a) 6 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz			
	Value	Limit	Result
	13.443 MHz	500 kHz	Pass

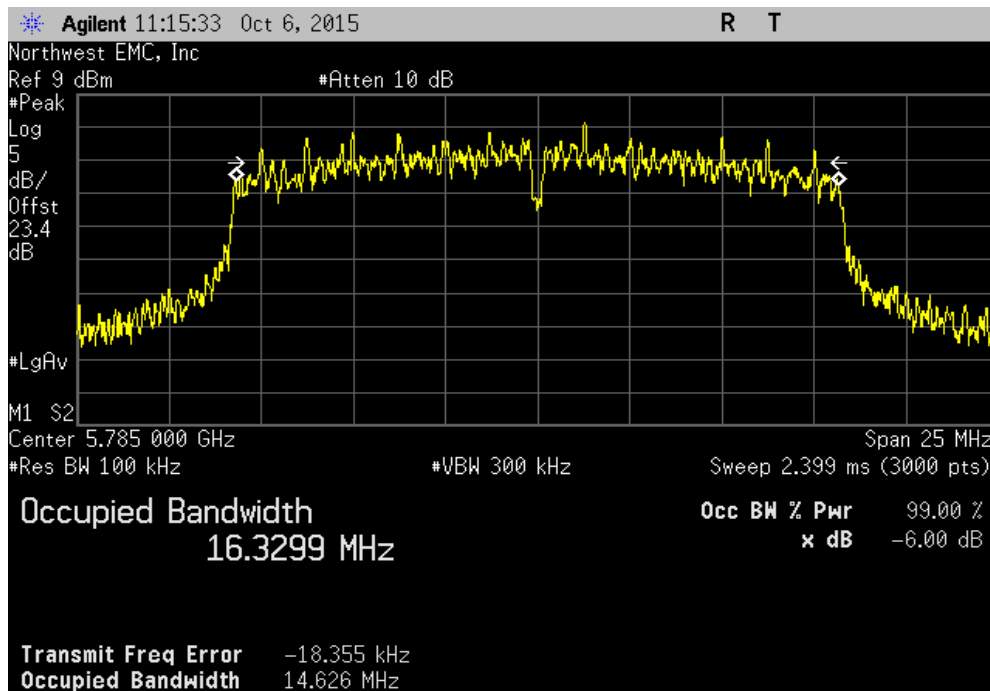


OCCUPIED BANDWIDTH

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

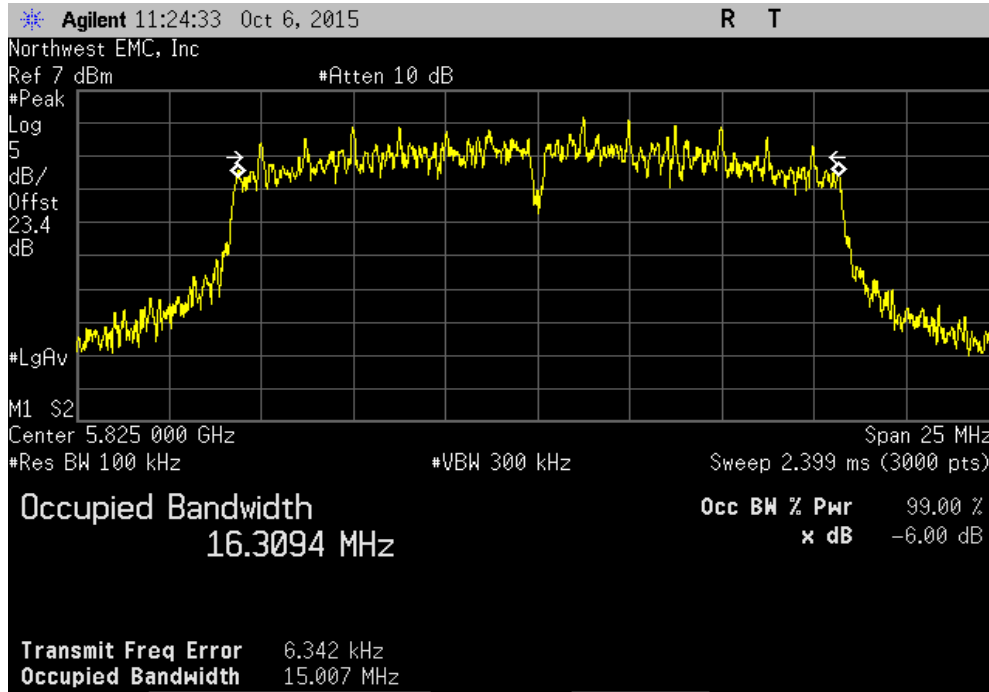


Ant 2, 802.11(a) 36 Mbps, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz						
				Value	Limit	Result
					(>)	
				14.626 MHz	500 kHz	Pass

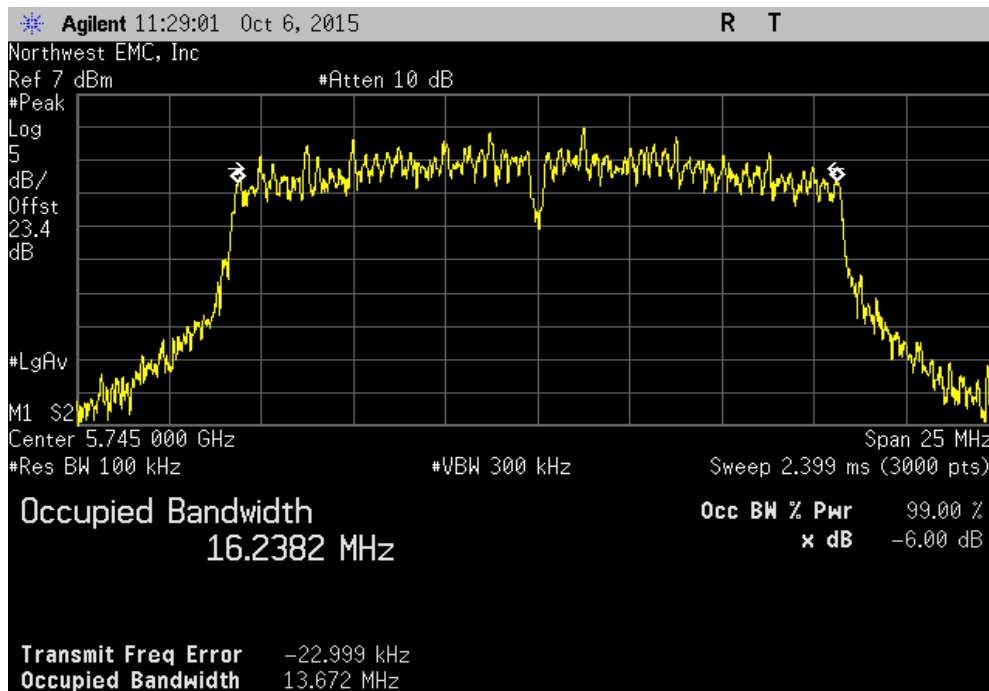


OCCUPIED BANDWIDTH

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

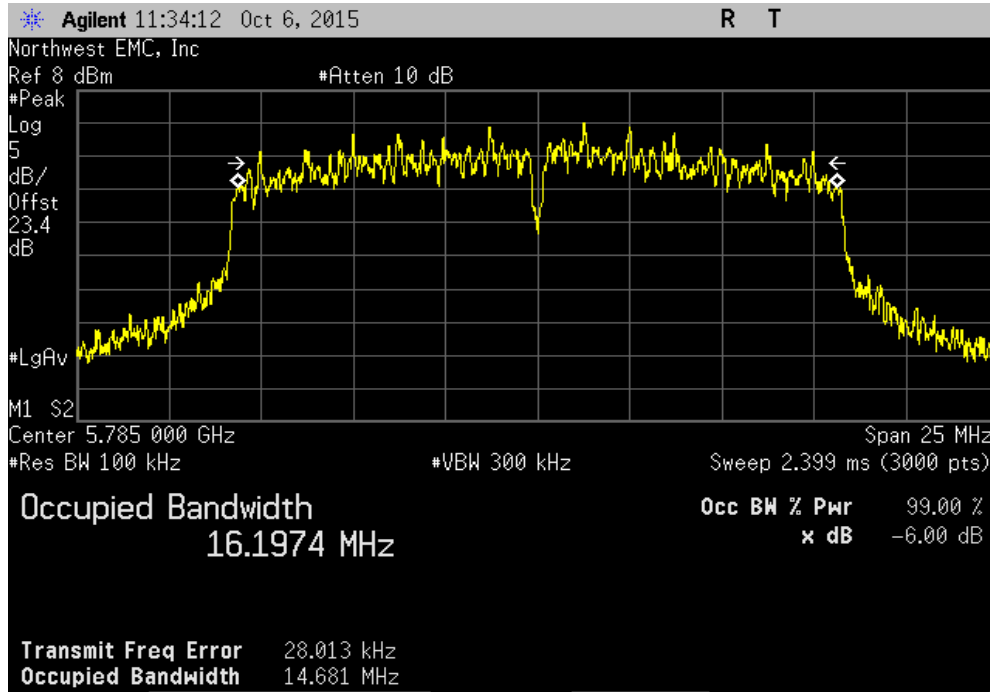


Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz						
				Value	Limit	Result
				(>)		
				13.672 MHz	500 kHz	Pass

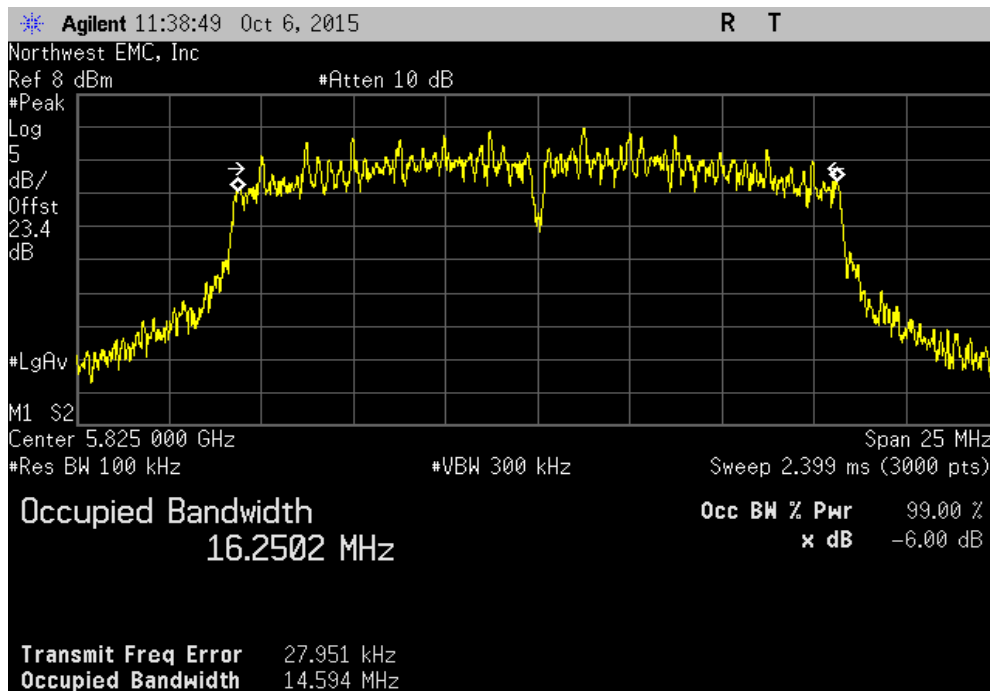


OCCUPIED BANDWIDTH

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	

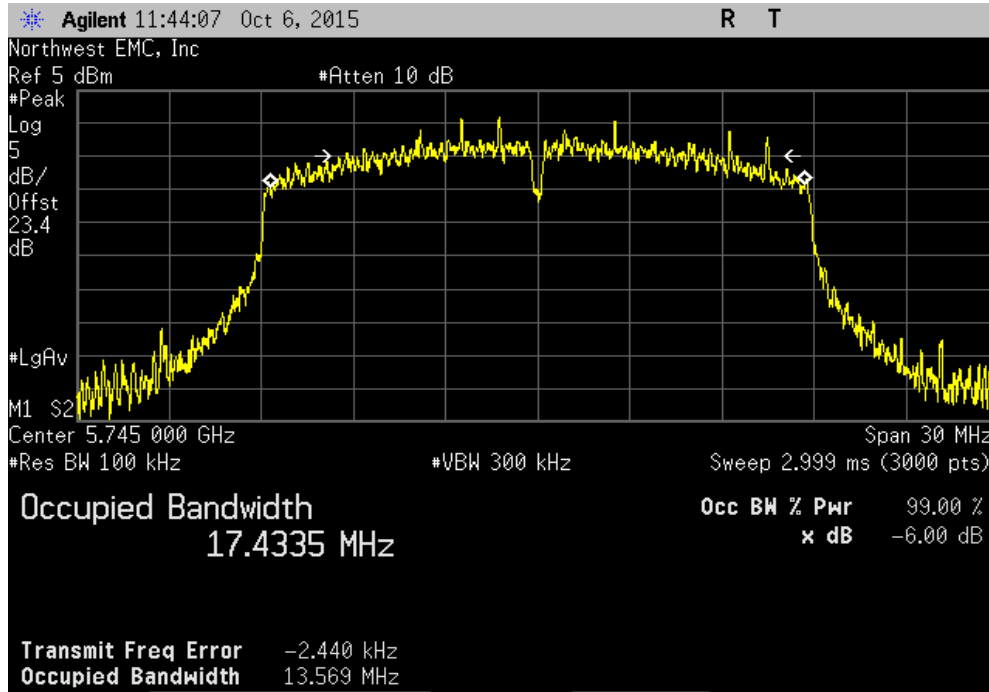


Ant 2, 802.11(a) 54 Mbps, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz						
			Value	Limit	Result	
				(>)		
			14.594 MHz	500 kHz	Pass	

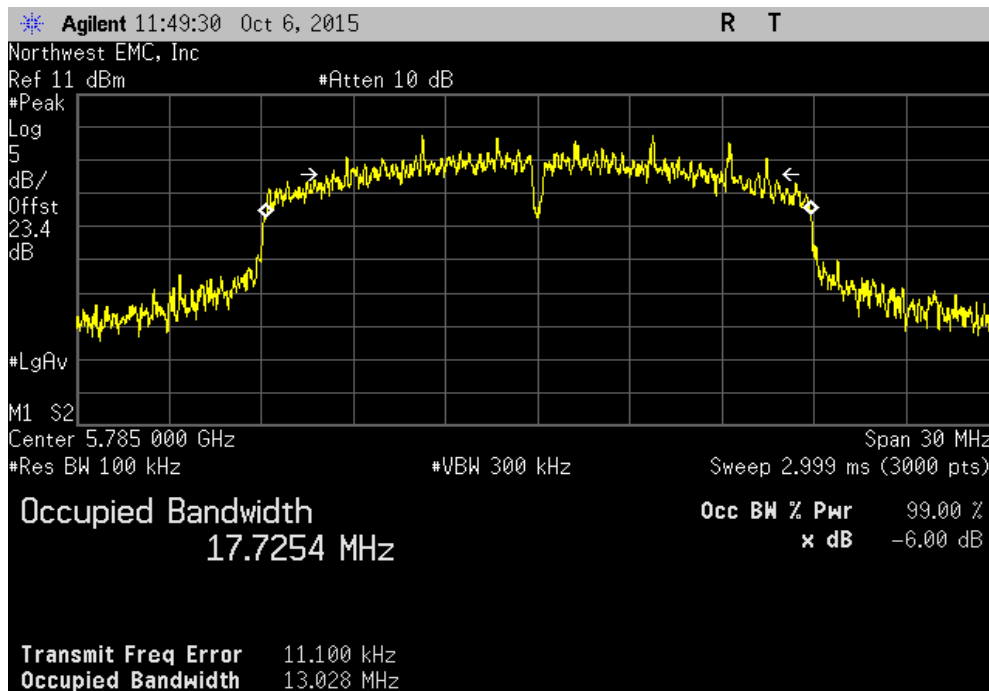


OCCUPIED BANDWIDTH

Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz			
	Value	Limit (>)	Result
	13.569 MHz	500 kHz	Pass

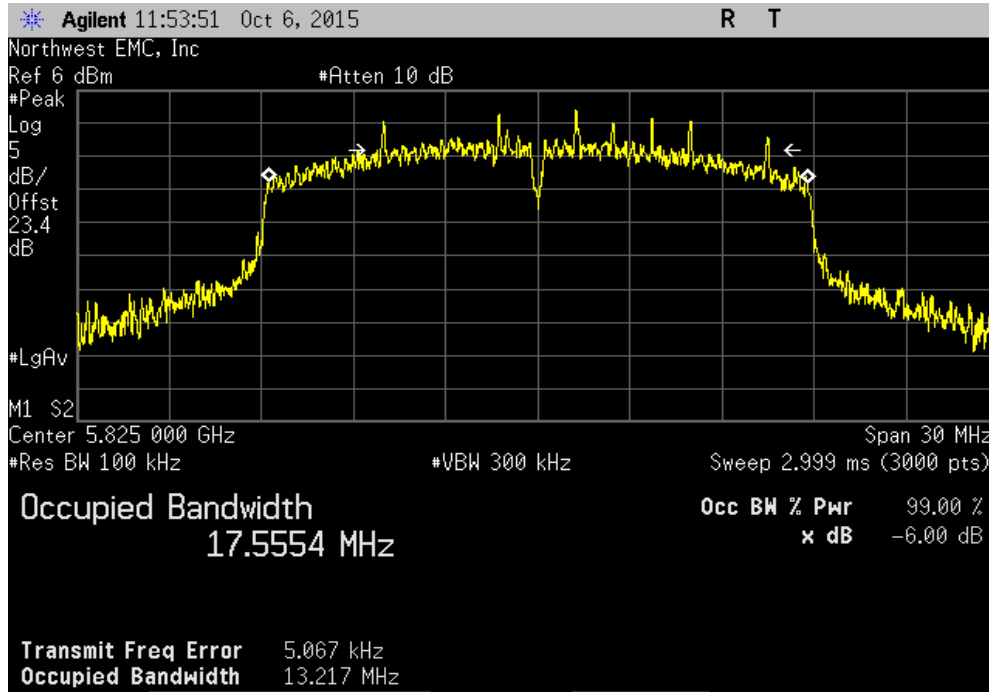


Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, Mid Channel 157, 5785 MHz			
	Value	Limit (>)	Result
	13.028 MHz	500 kHz	Pass

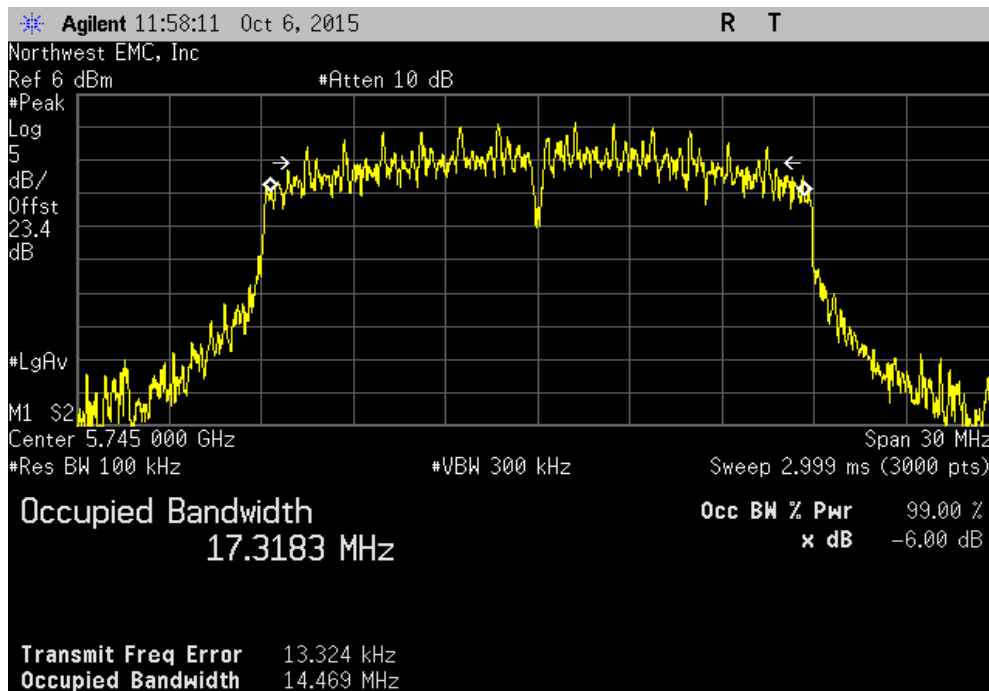


OCCUPIED BANDWIDTH

Ant 2, 802.11(n) MCS0, 5725 - 5825 MHz Band, High Channel 165, 5825 MHz			
	Value	Limit (>)	Result
	13.217 MHz	500 kHz	Pass

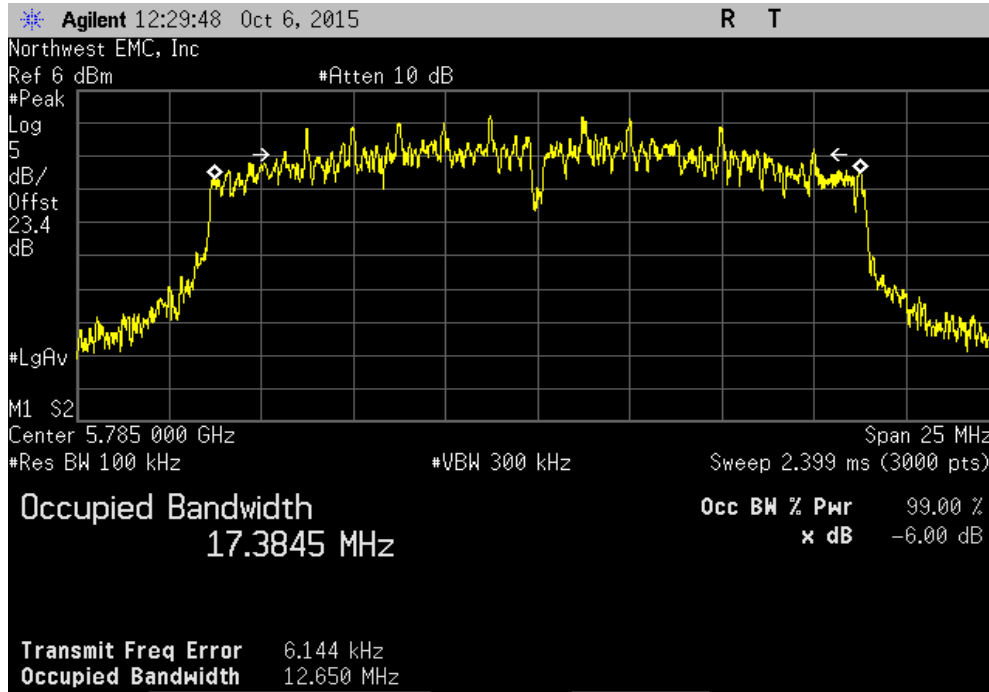


Ant 2, 802.11(n) MCS7, 5725 - 5825 MHz Band, Low Channel 149, 5745 MHz			
	Value	Limit (>)	Result
	14.469 MHz	500 kHz	Pass



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

