

EMISSION BANDWIDTH

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

TEST EQUIPMENT

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

TEST DESCRIPTION

FCC KDB 789033 D01 General UNII Test Procedures were followed.

The transmit frequencies and data rates listed in the datasheet were measured in each band utilized by the radio. The transmit power was set to its default maximum.

A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

The spectrum analyzer settings were as follows:

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

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

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

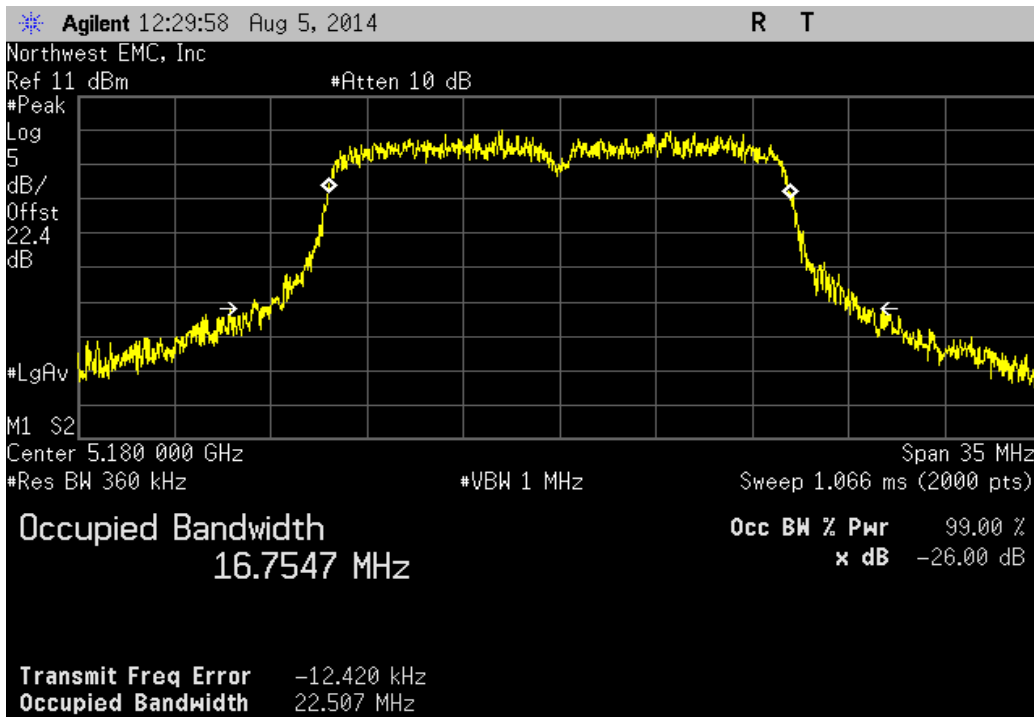


EMISSION BANDWIDTH

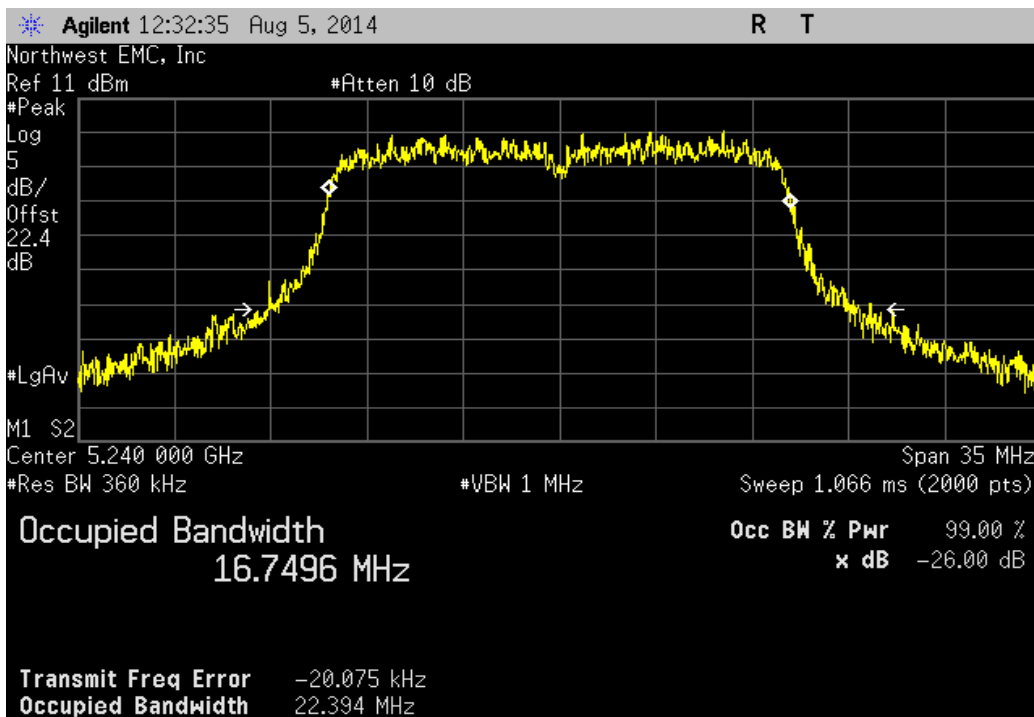
XMit 2014.02.07
NweTx 2014.07.18.3

| | | | |
|--------------------------------------|---------------------------|---------------------------------|--------------|
| EUT: ConnectCore6 (i.MX6) | | Work Order: ETHE0008 | |
| Serial Number: 00409D7B8CA2 | | Date: 08/05/14 | |
| Customer: Etherios Design Solutions | | Temperature: 24.1°C | |
| Attendees: None | | Humidity: 52% | |
| Project: None | | Barometric Pres.: 1022.3 | |
| Tested by: Trevor Buls | | Power: 5.0VDC | |
| | | Job Site: MN08 | |
| TEST SPECIFICATIONS | | | |
| FCC 15.407:2014 | | Test Method ANSI C63.10:2009 | |
| COMMENTS | | | |
| None | | | |
| DEVIATIONS FROM TEST STANDARD | | | |
| None | | | |
| Configuration # | 1 | Signature <i>Trevor Buls</i> | |
| | | Value | Limit (>) |
| 802.11(a) 6 Mbps | | | |
| 5150 - 5250 MHz Band | | | |
| | Channel 36, Low Channel | 22.507 MHz | 500 kHz Pass |
| | Channel 48, High Channel | 22.394 MHz | 500 kHz Pass |
| 5250 - 5350 MHz Band | | | |
| | Channel 52, Low Channel | 25.297 MHz | 500 kHz Pass |
| | Channel 64, High Channel | 27.162 MHz | 500 kHz Pass |
| 5470 - 5725 MHz Band | | | |
| | Channel 100, Low Channel | 24.996 MHz | 500 kHz Pass |
| | Channel 116, Mid Channel | 33.116 MHz | 500 kHz Pass |
| | Channel 140, High Channel | 37.322 MHz | 500 kHz Pass |
| 802.11(a) 36 Mbps | | | |
| 5150 - 5250 MHz Band | | | |
| | Channel 36, Low Channel | 24.965 MHz | 500 kHz Pass |
| | Channel 48, High Channel | 24.773 MHz | 500 kHz Pass |
| 5250 - 5350 MHz Band | | | |
| | Channel 52, Low Channel | 36.39 MHz | 500 kHz Pass |
| | Channel 64, High Channel | 32.628 MHz | 500 kHz Pass |
| 5470 - 5725 MHz Band | | | |
| | Channel 100, Low Channel | 30.948 MHz | 500 kHz Pass |
| | Channel 116, Mid Channel | 38.495 MHz | 500 kHz Pass |
| | Channel 140, High Channel | 38.812 MHz | 500 kHz Pass |
| 802.11(a) 54 Mbps | | | |
| 5150 - 5250 MHz Band | | | |
| | Channel 36, Low Channel | 23.632 MHz | 500 kHz Pass |
| | Channel 48, High Channel | 24.684 MHz | 500 kHz Pass |
| 5250 - 5350 MHz Band | | | |
| | Channel 52, Low Channel | 34.071 MHz | 500 kHz Pass |
| | Channel 64, High Channel | 33.565 MHz | 500 kHz Pass |
| 5470 - 5725 MHz Band | | | |
| | Channel 100, Low Channel | 27.036 MHz | 500 kHz Pass |
| | Channel 116, Mid Channel | 36.946 MHz | 500 kHz Pass |
| | Channel 140, High Channel | 36.891 MHz | 500 kHz Pass |
| 802.11(n) MCS0 | | | |
| 5150 - 5250 MHz Band | | | |
| | Channel 36, Low Channel | 22.383 MHz | 500 kHz Pass |
| | Channel 48, High Channel | 22.78 MHz | 500 kHz Pass |
| 5250 - 5350 MHz Band | | | |
| | Channel 52, Low Channel | 28.251 MHz | 500 kHz Pass |
| | Channel 64, High Channel | 29.06 MHz | 500 kHz Pass |
| 5470 - 5725 MHz Band | | | |
| | Channel 100, Low Channel | 25.407 MHz | 500 kHz Pass |
| | Channel 116, Mid Channel | 35.082 MHz | 500 kHz Pass |
| | Channel 140, High Channel | 35.771 MHz | 500 kHz Pass |
| 802.11(n) MCS7 | | | |
| 5150 - 5250 MHz Band | | | |
| | Channel 36, Low Channel | 25.112 MHz | 500 kHz Pass |
| | Channel 48, High Channel | 23.596 MHz | 500 kHz Pass |
| 5250 - 5350 MHz Band | | | |
| | Channel 52, Low Channel | 35.231 MHz | 500 kHz Pass |
| | Channel 64, High Channel | 33.234 MHz | 500 kHz Pass |
| 5470 - 5725 MHz Band | | | |
| | Channel 100, Low Channel | 32.234 MHz | 500 kHz Pass |
| | Channel 116, Mid Channel | 37.64 MHz | 500 kHz Pass |
| | Channel 140, High Channel | 39.062 MHz | 500 kHz Pass |

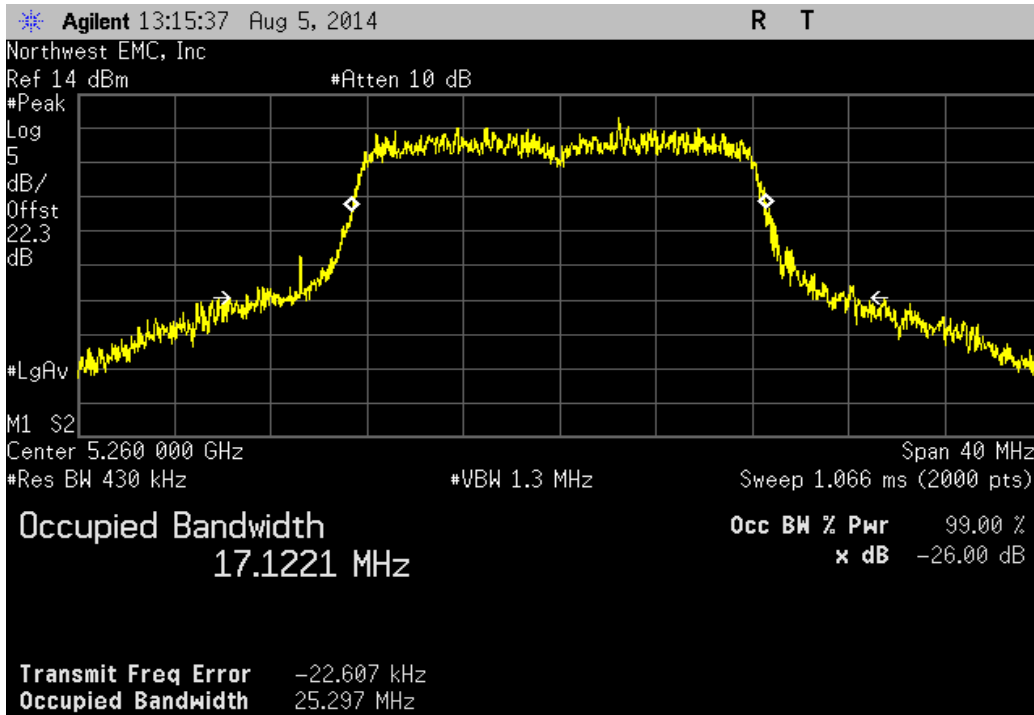
| 802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 22.507 MHz | 500 kHz | Pass |



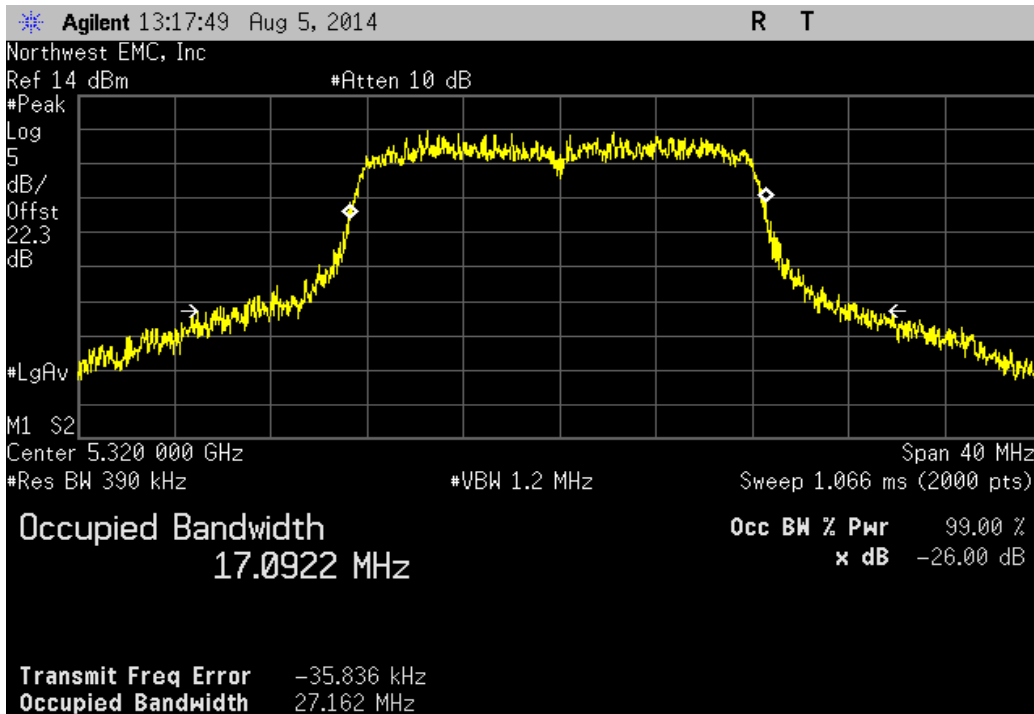
| 802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 22.394 MHz | 500 kHz | Pass |



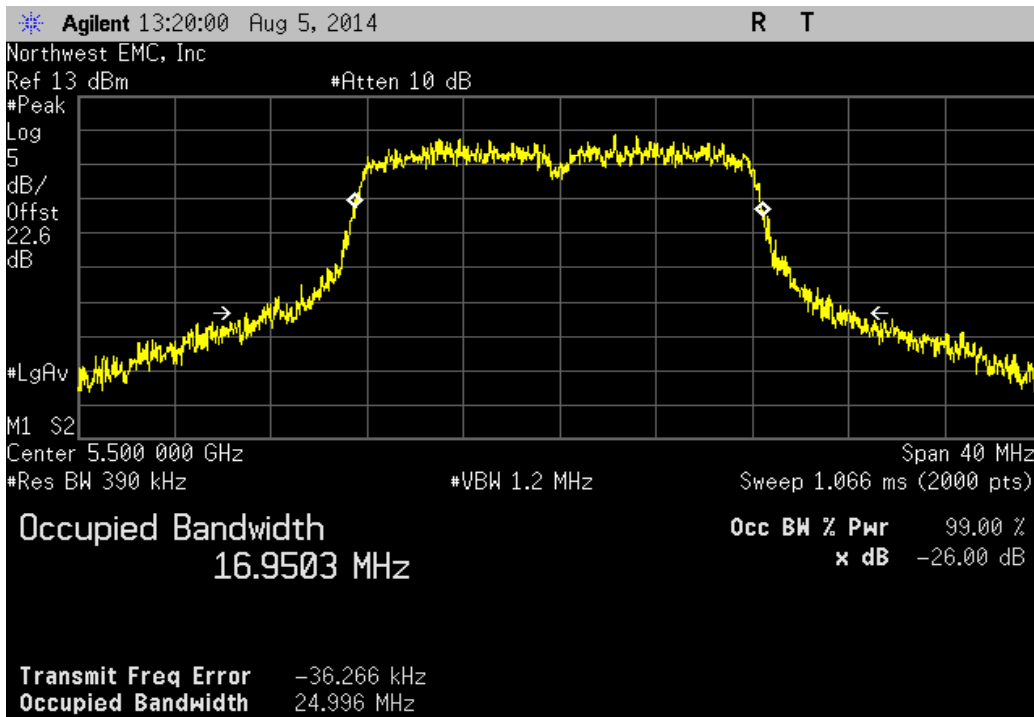
| 802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 25.297 MHz | 500 kHz | Pass |



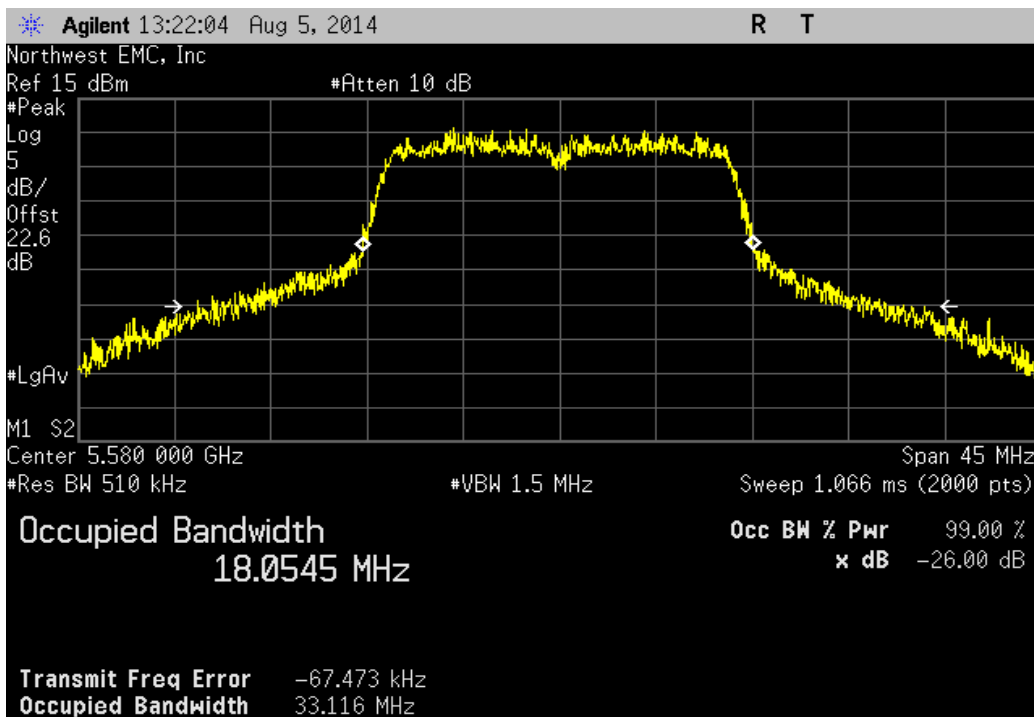
| 802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 27.162 MHz | 500 kHz | Pass |



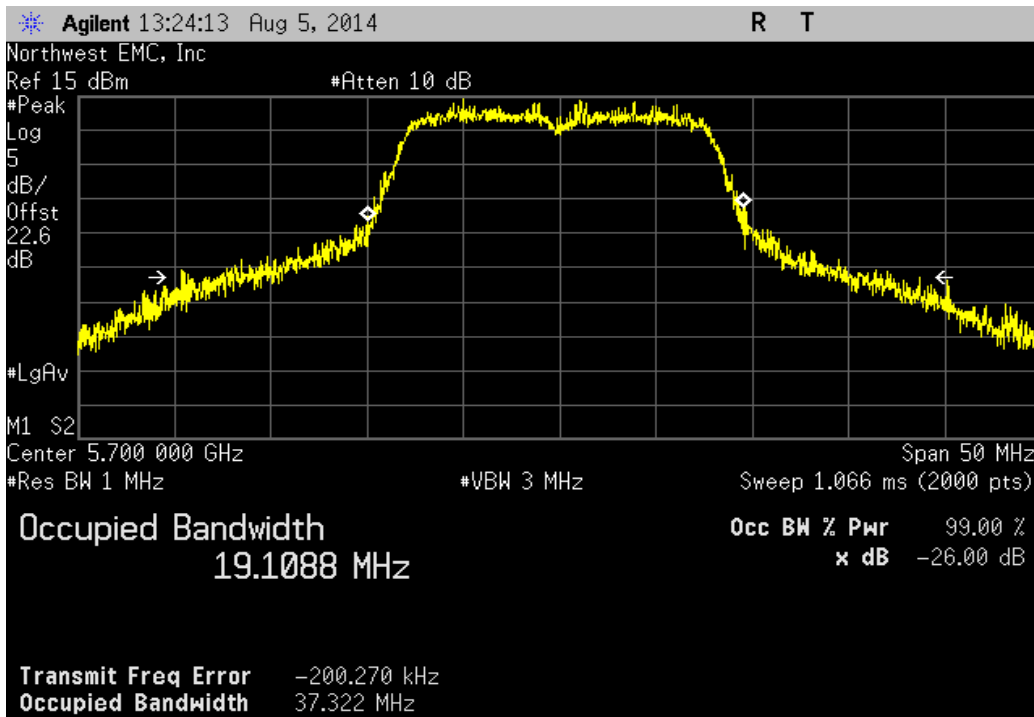
| 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 24.996 MHz | 500 kHz | Pass |



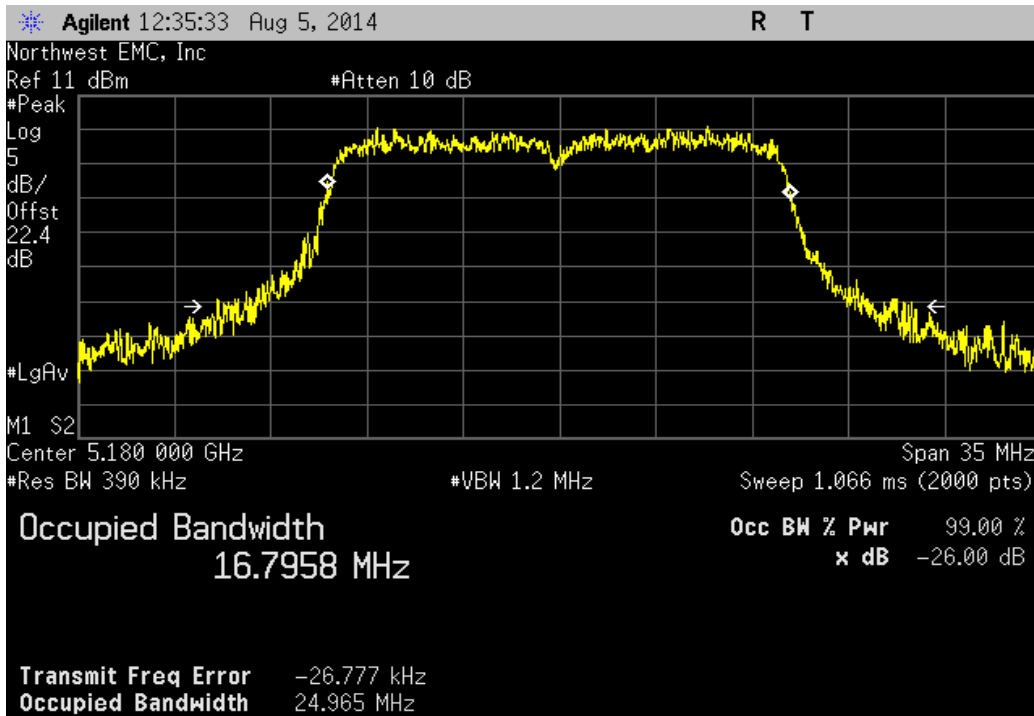
| 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 33.116 MHz | 500 kHz | Pass |



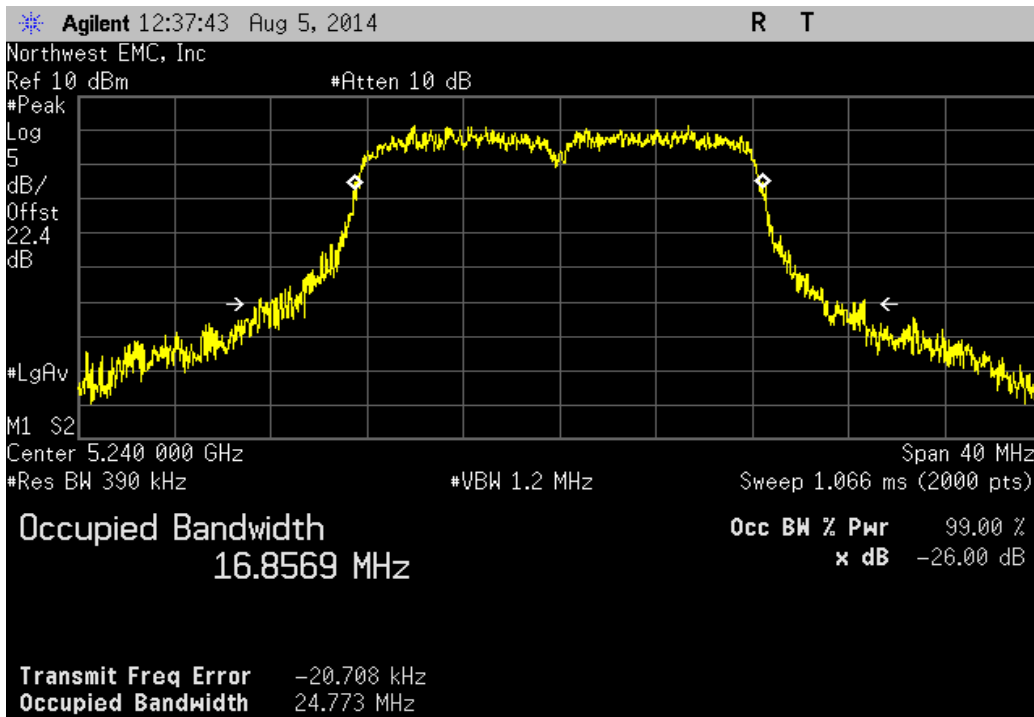
| 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 37.322 MHz | 500 kHz | Pass |



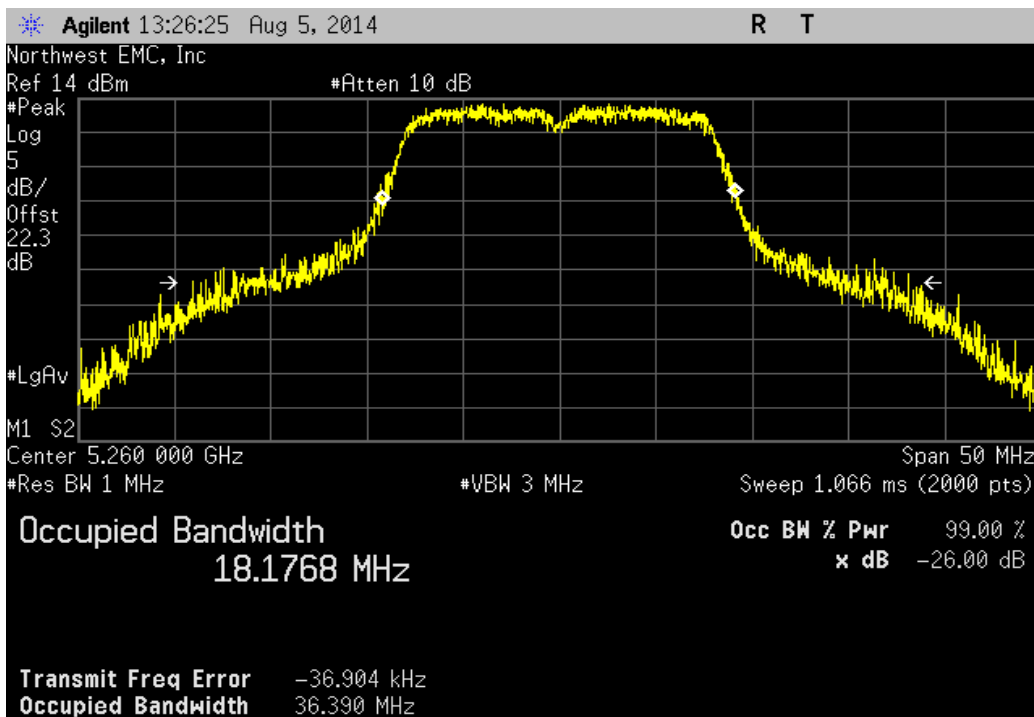
| 802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 24.965 MHz | 500 kHz | Pass |



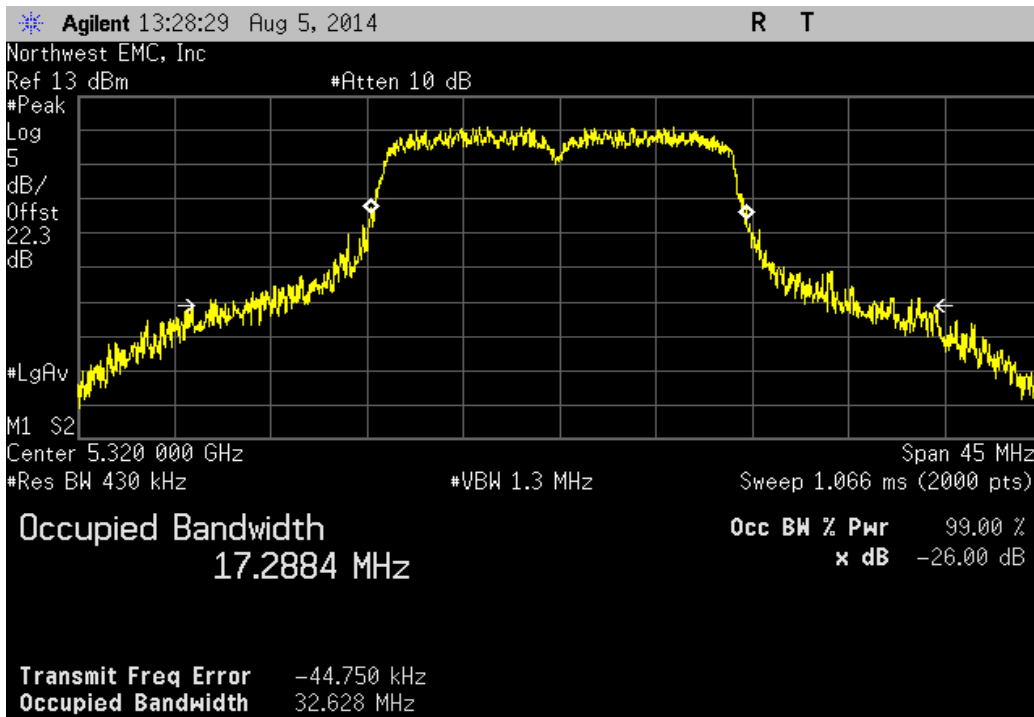
| 802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 24.773 MHz | 500 kHz | Pass |



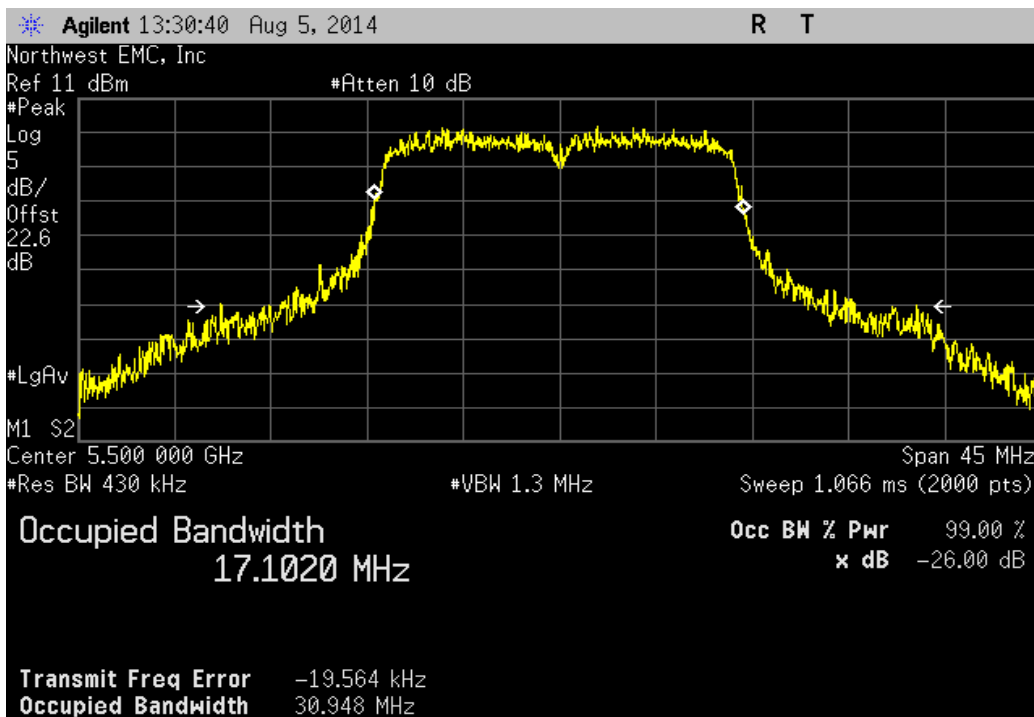
| 802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel | | | |
|--|-----------|-----------|--------|
| | Value | Limit (>) | Result |
| | 36.39 MHz | 500 kHz | Pass |



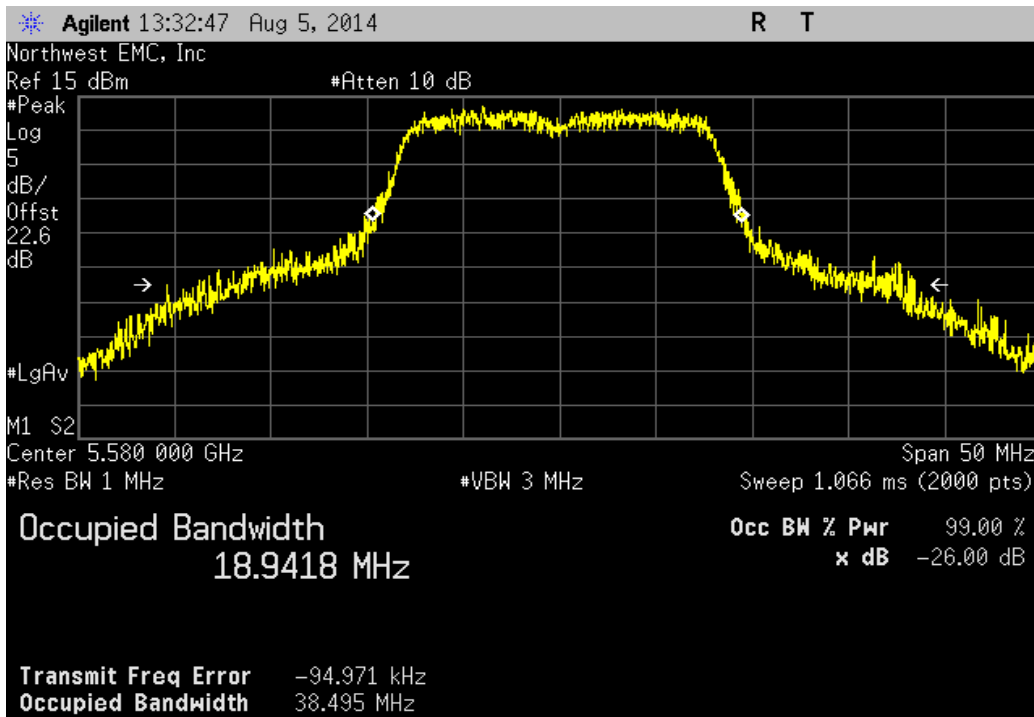
| 802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 32.628 MHz | 500 kHz | Pass |



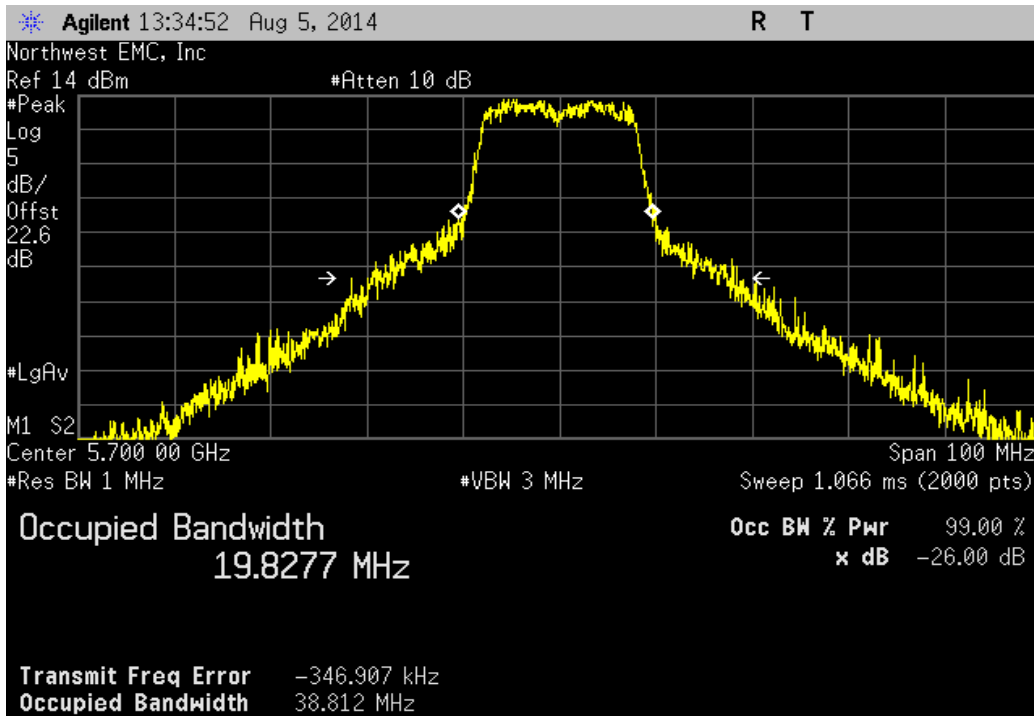
| 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 30.948 MHz | 500 kHz | Pass |



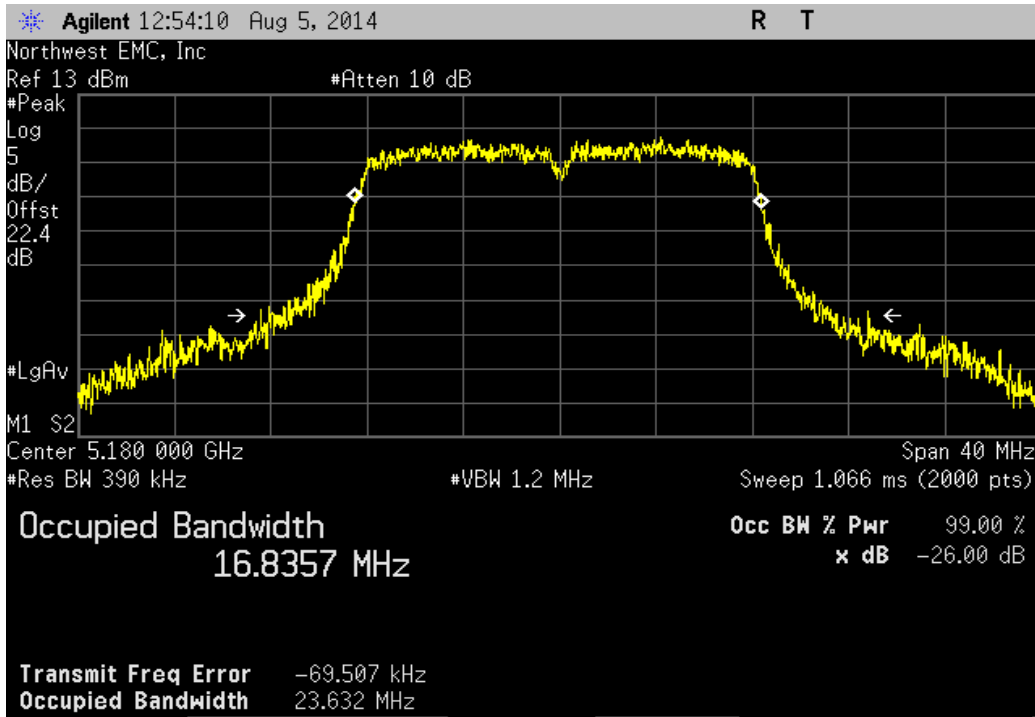
| 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 38.495 MHz | 500 kHz | Pass |



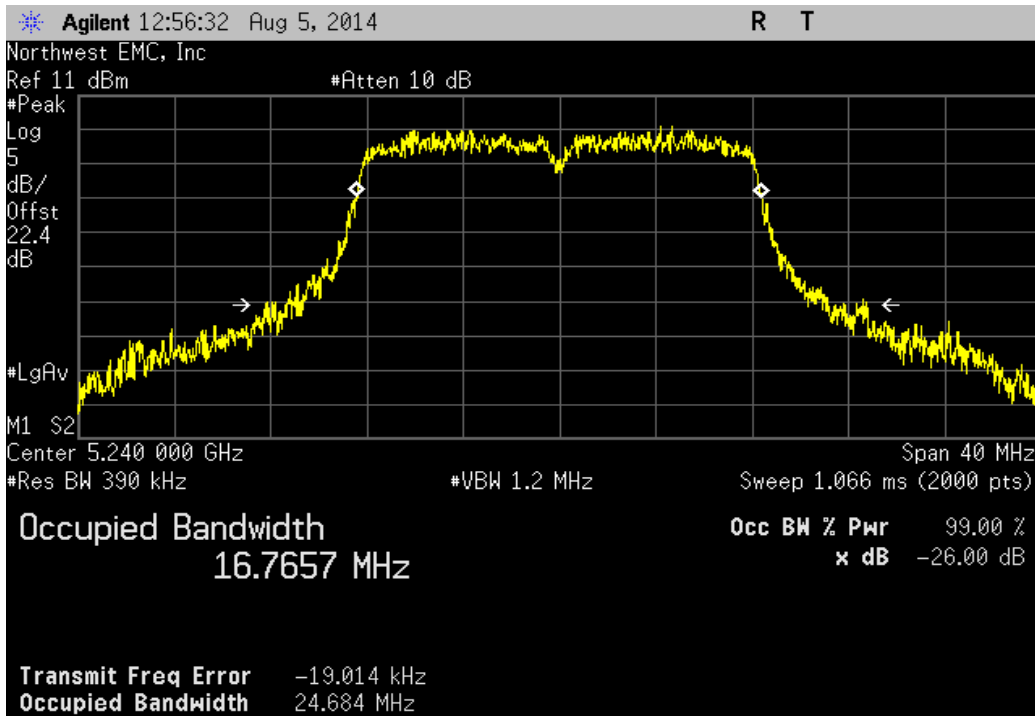
| 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 38.812 MHz | 500 kHz | Pass |



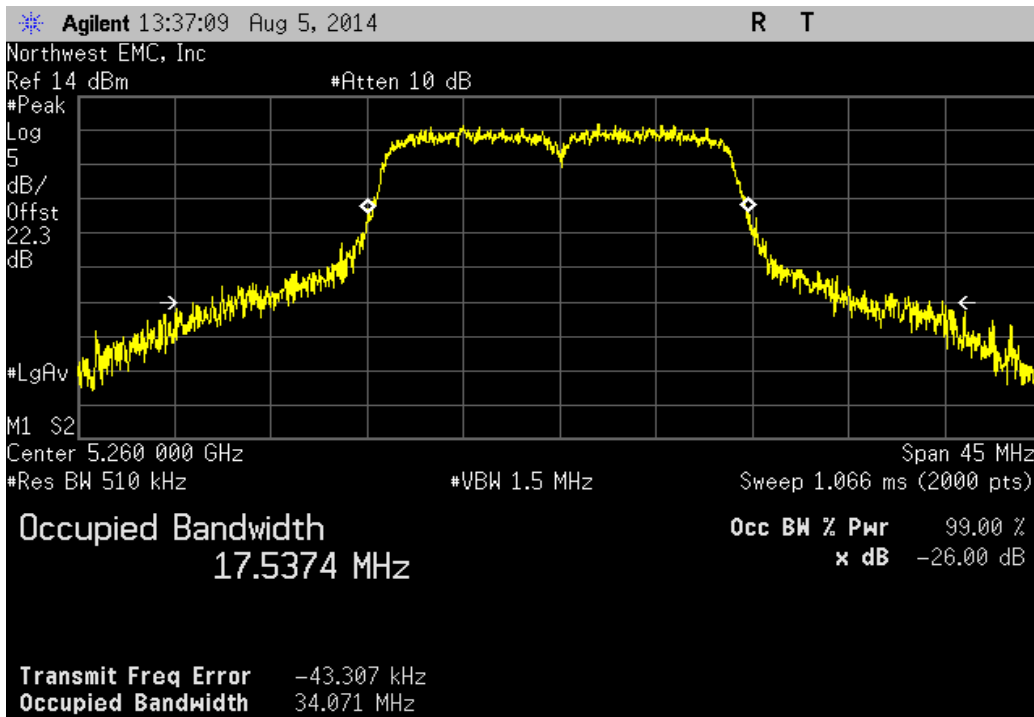
| 802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 23.632 MHz | 500 kHz | Pass |



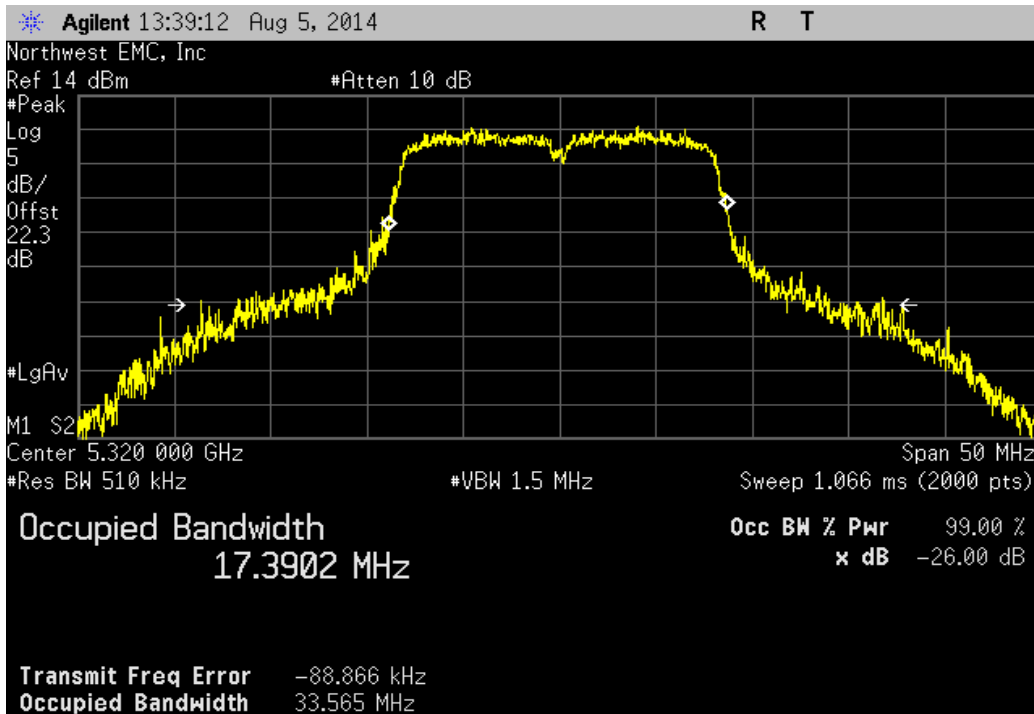
| 802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 24.684 MHz | 500 kHz | Pass |



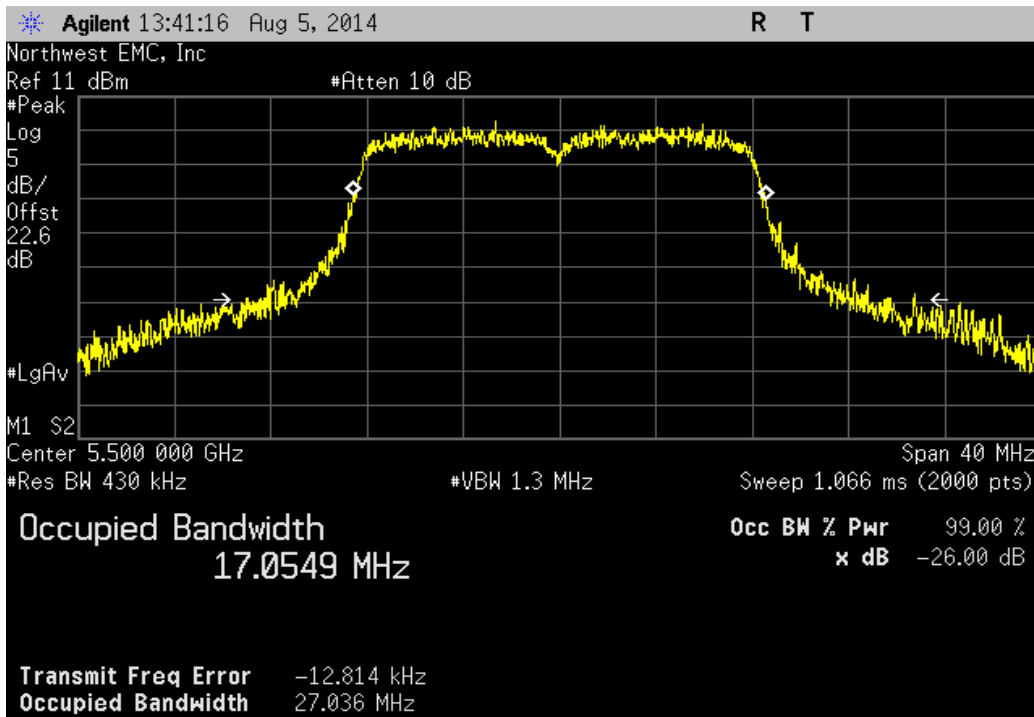
| 802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 34.071 MHz | 500 kHz | Pass |



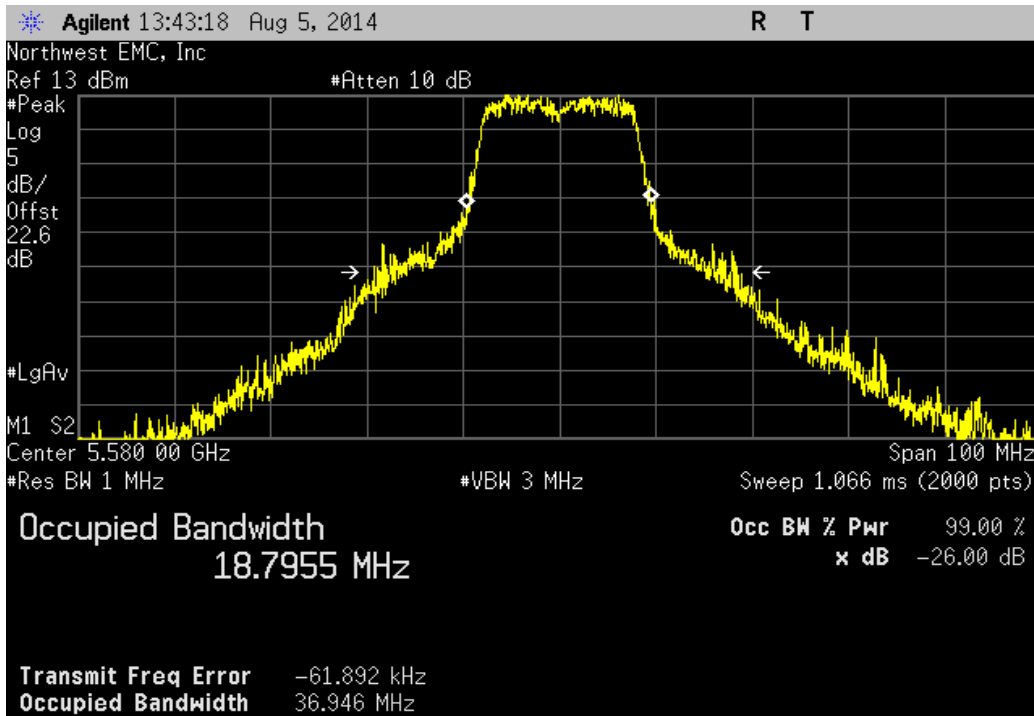
| 802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 33.565 MHz | 500 kHz | Pass |



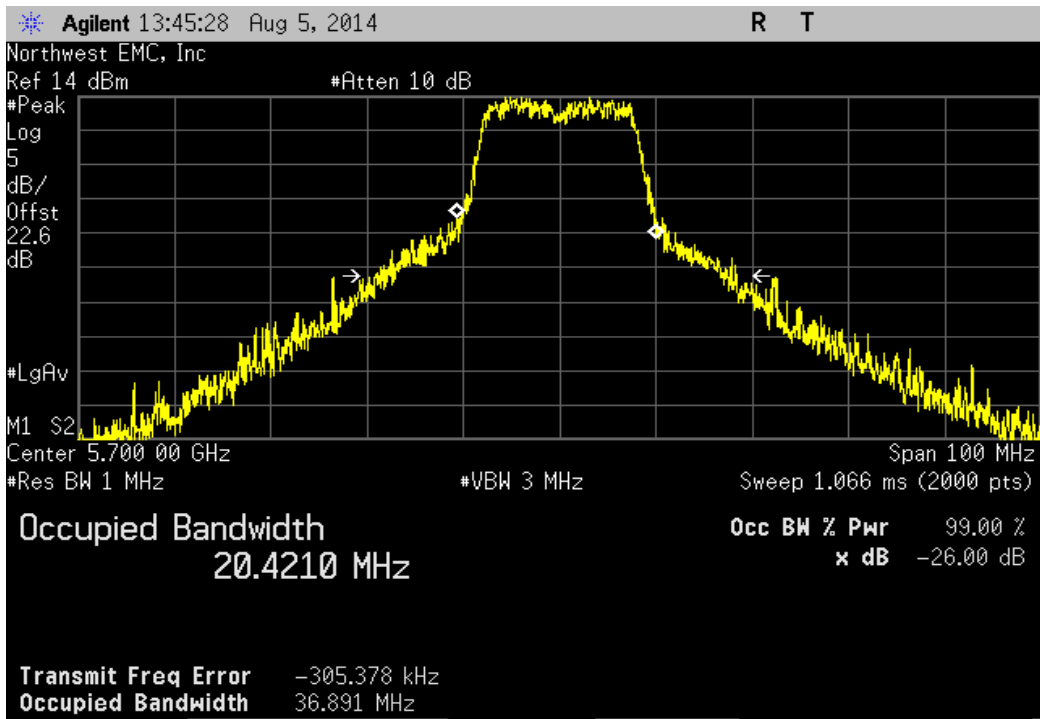
| 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 27.036 MHz | 500 kHz | Pass |



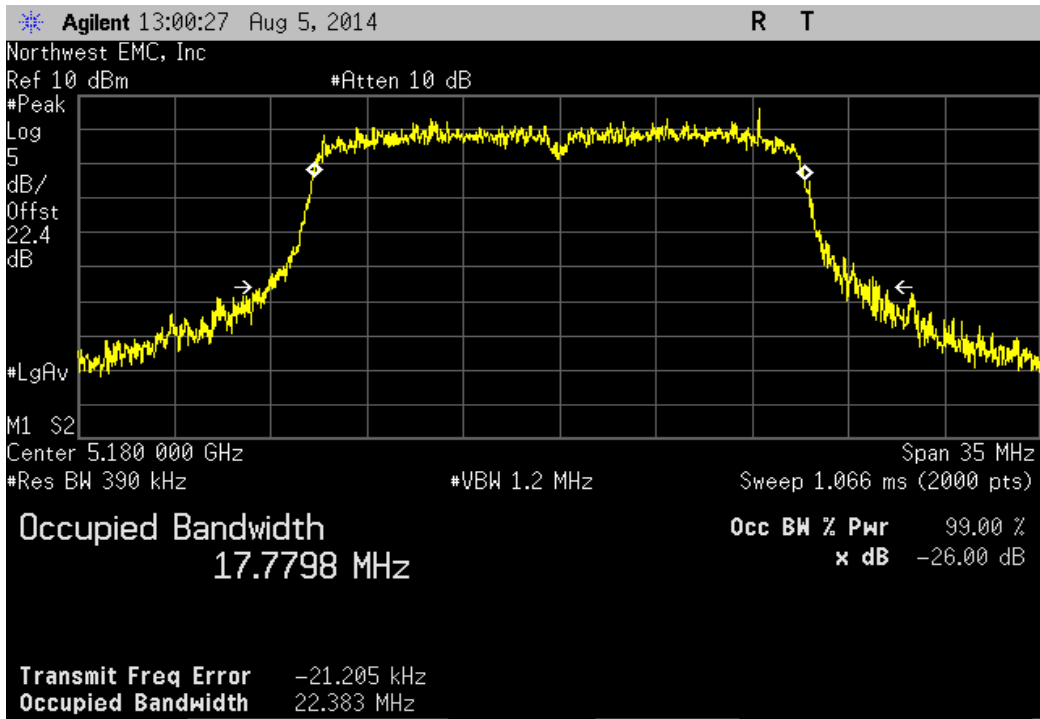
| 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 36.946 MHz | 500 kHz | Pass |



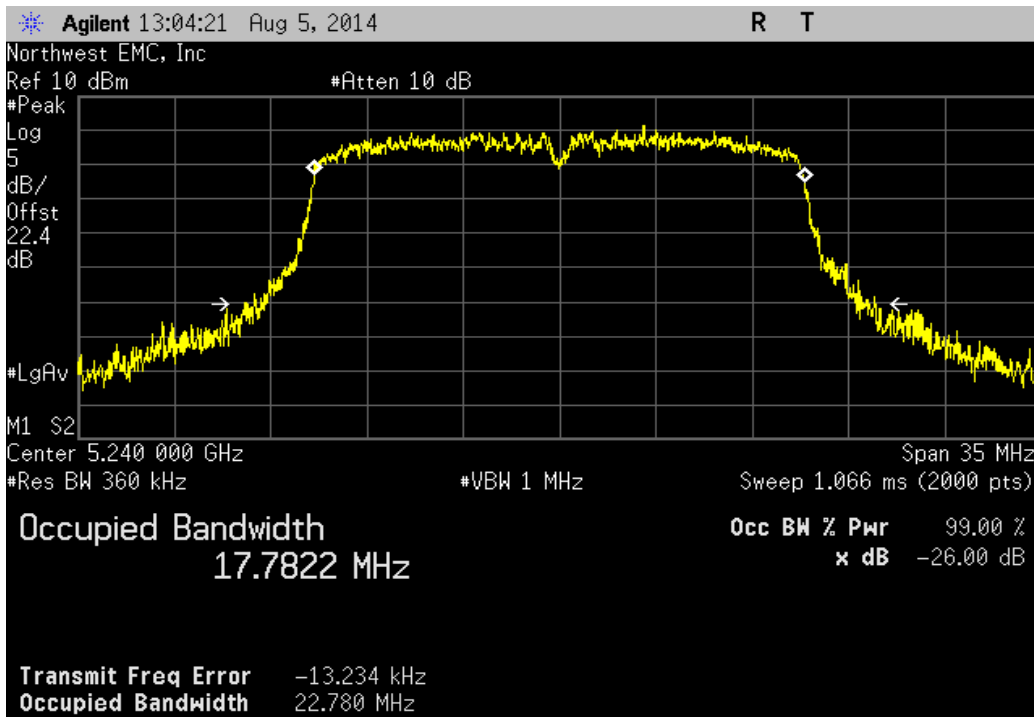
| 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 36.891 MHz | 500 kHz | Pass |



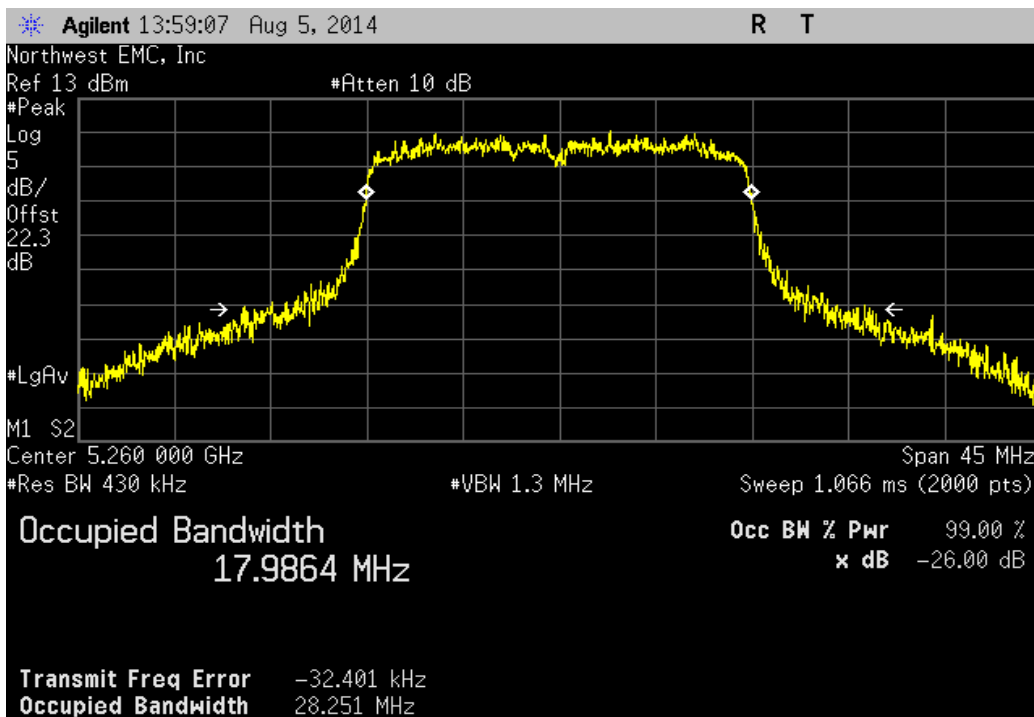
| 802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 36, Low Channel | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 22.383 MHz | 500 kHz | Pass |



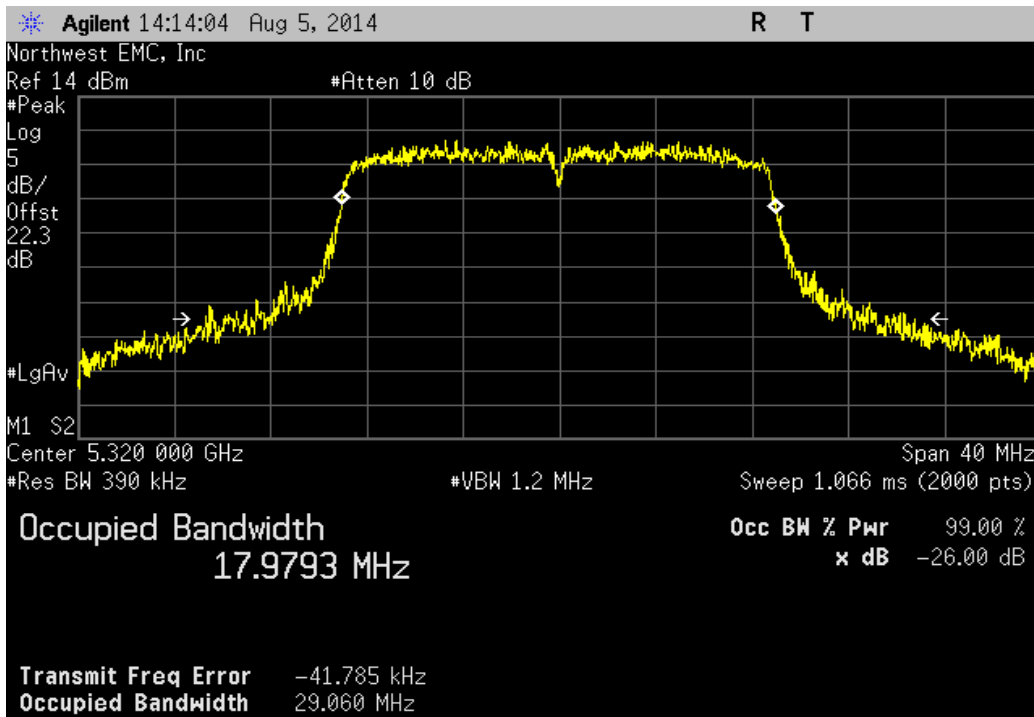
| 802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 48, High Channel | | | |
|--|-----------|-----------|--------|
| | Value | Limit (>) | Result |
| | 22.78 MHz | 500 kHz | Pass |



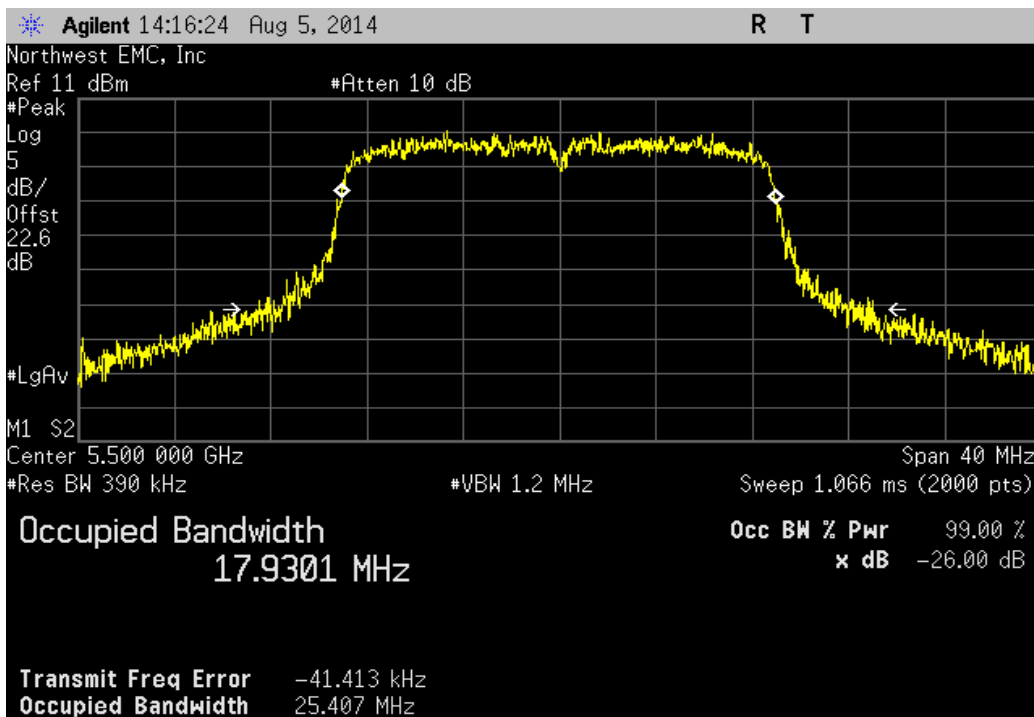
| 802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 52, Low Channel | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 28.251 MHz | 500 kHz | Pass |



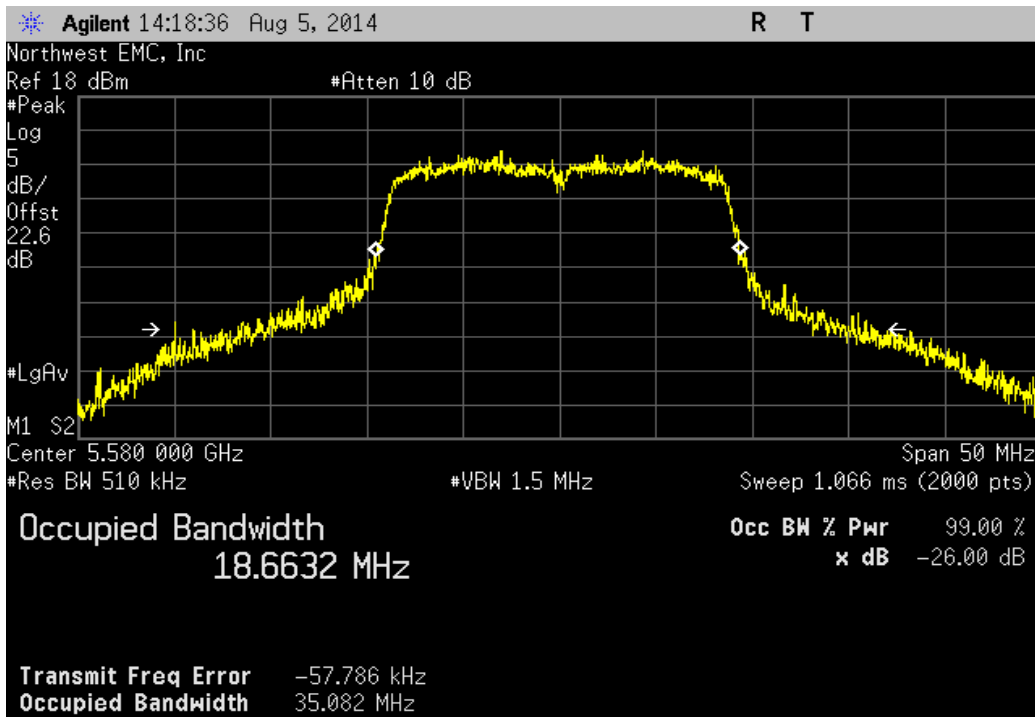
| 802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 64, High Channel | | | |
|--|-----------|-----------|--------|
| | Value | Limit (>) | Result |
| | 29.06 MHz | 500 kHz | Pass |



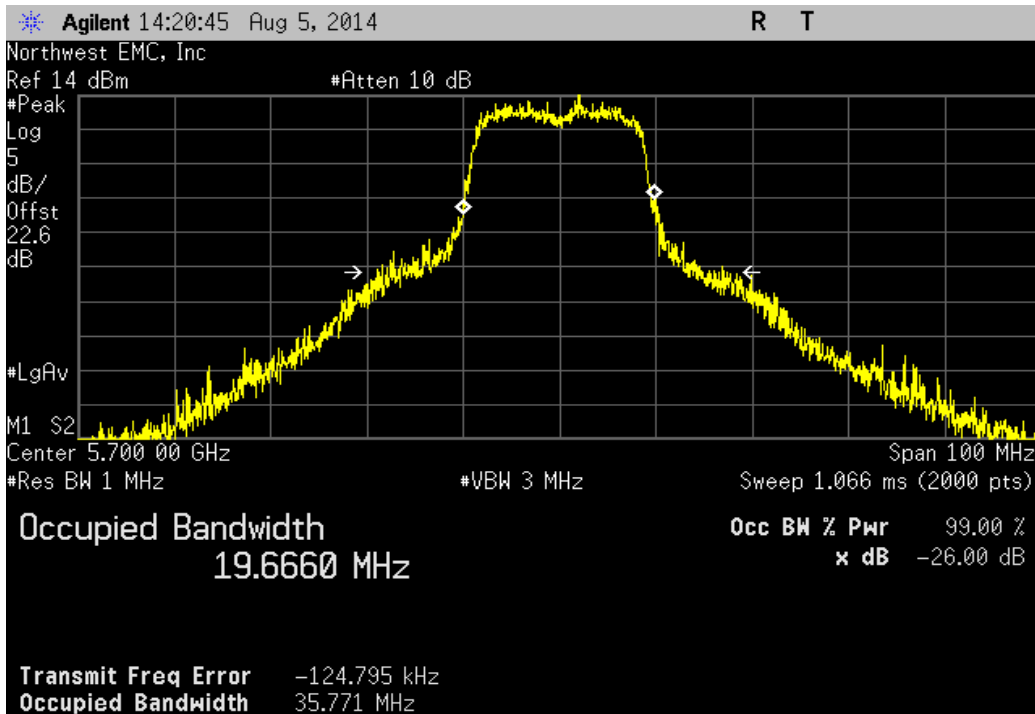
| 802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 100, Low Channel | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 25.407 MHz | 500 kHz | Pass |



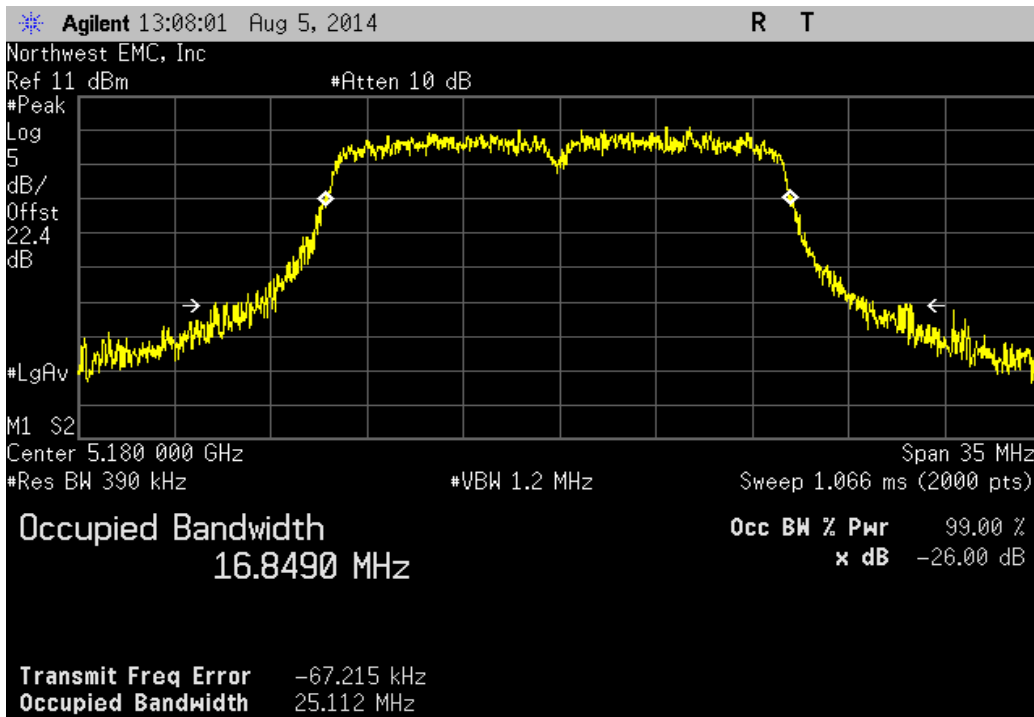
| 802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 116, Mid Channel | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 35.082 MHz | 500 kHz | Pass |



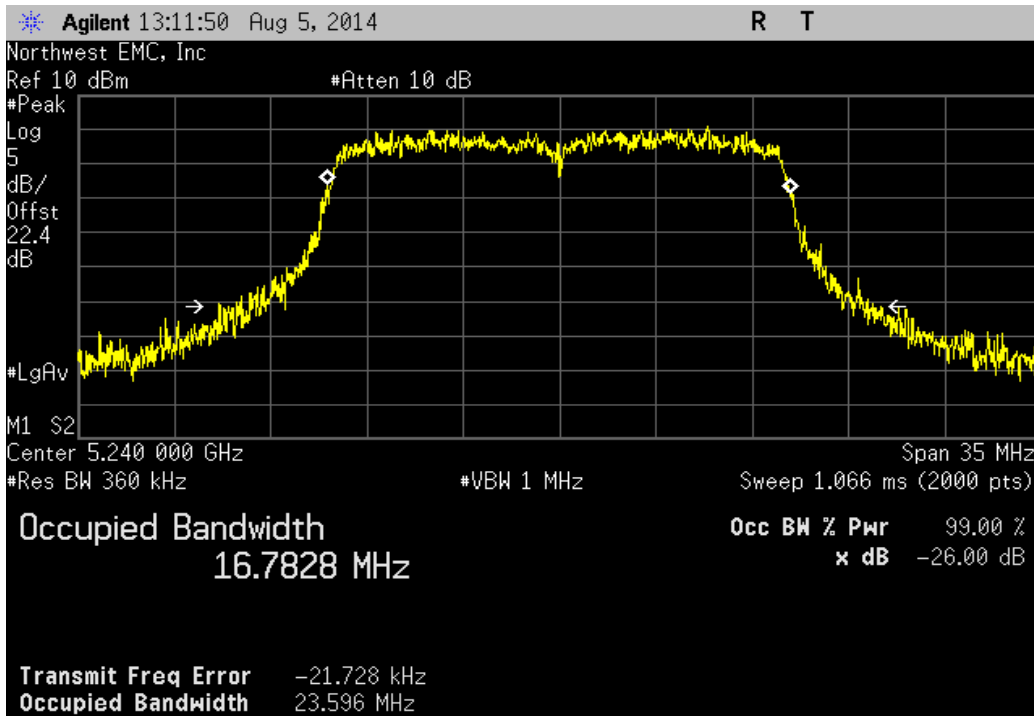
| 802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 140, High Channel | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 35.771 MHz | 500 kHz | Pass |



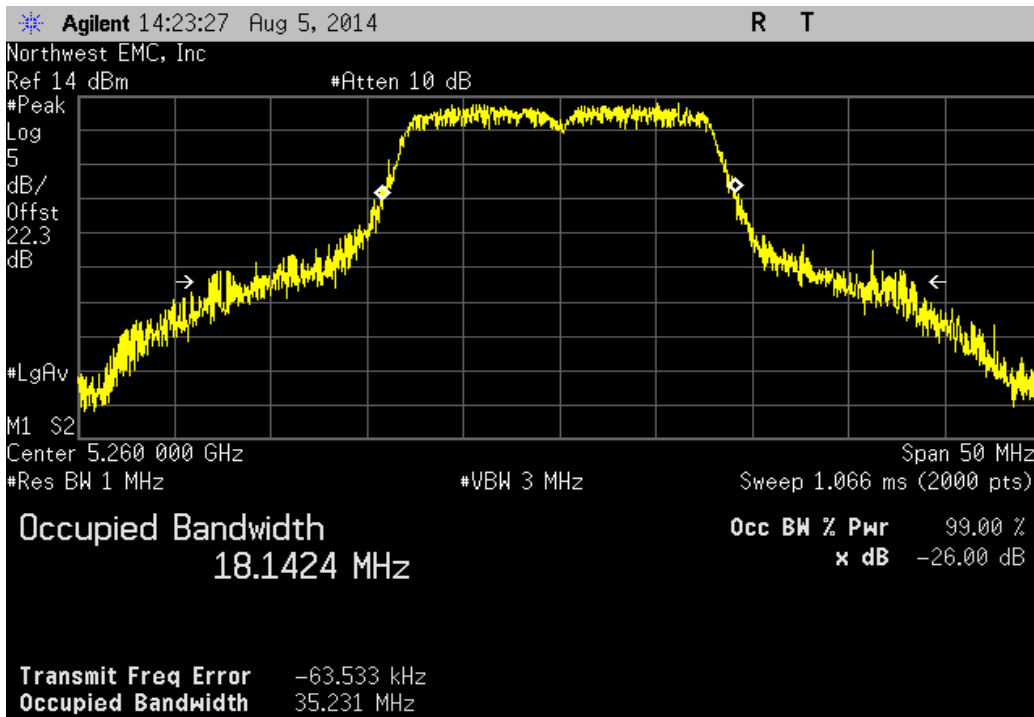
| 802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 36, Low Channel | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 25.112 MHz | 500 kHz | Pass |



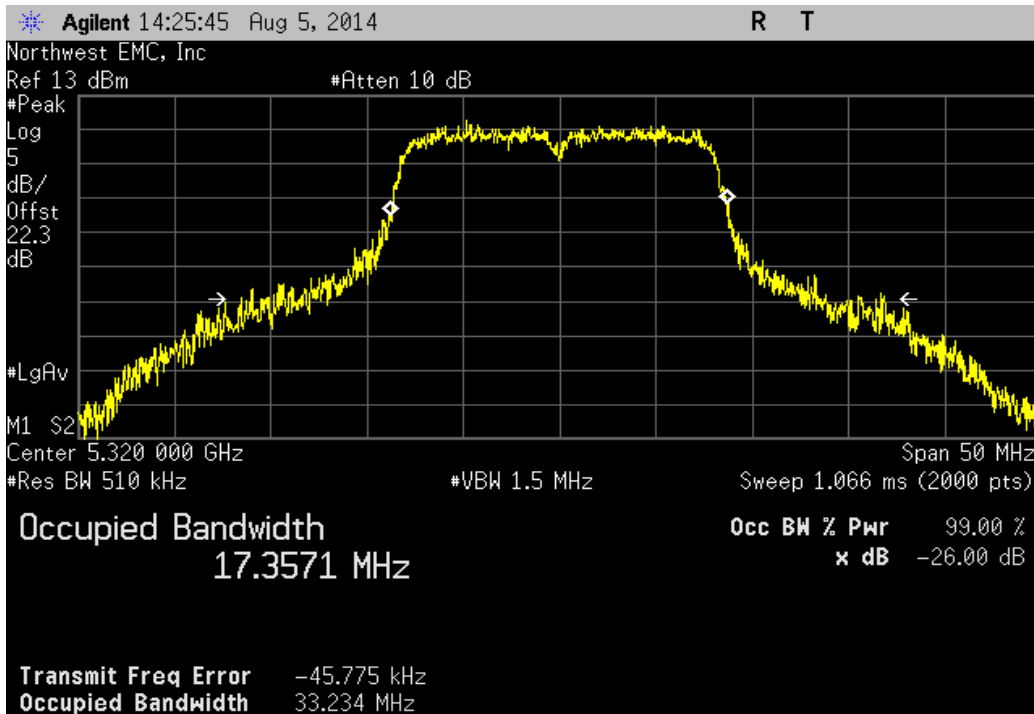
| 802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 48, High Channel | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 23.596 MHz | 500 kHz | Pass |



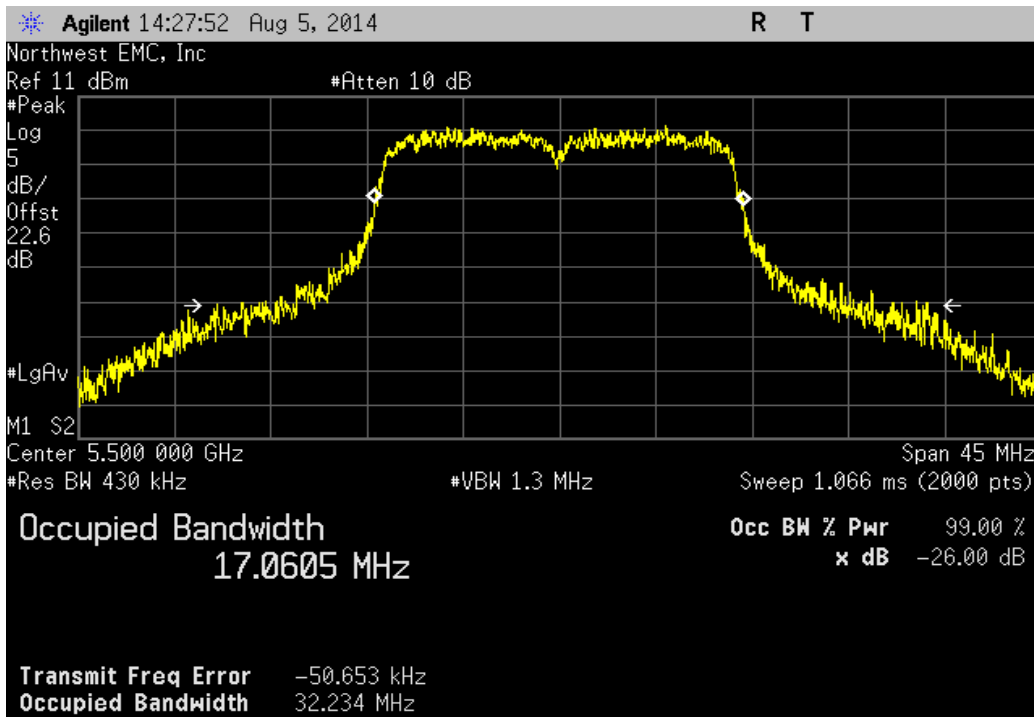
| 802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 52, Low Channel | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 35.231 MHz | 500 kHz | Pass |



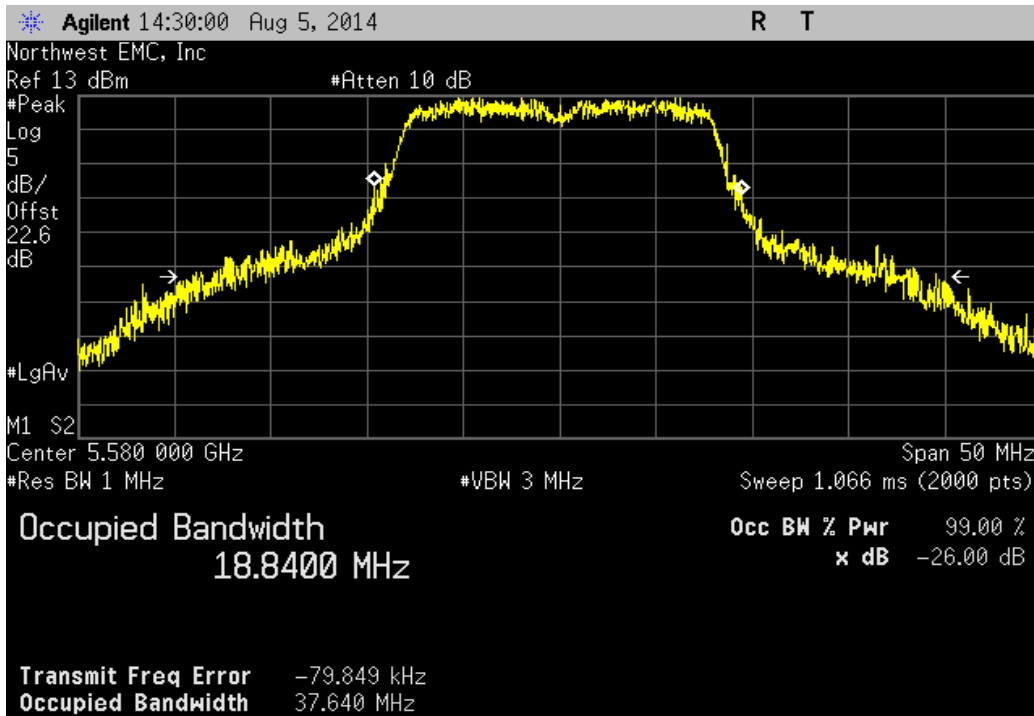
| 802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 64, High Channel | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 33.234 MHz | 500 kHz | Pass |



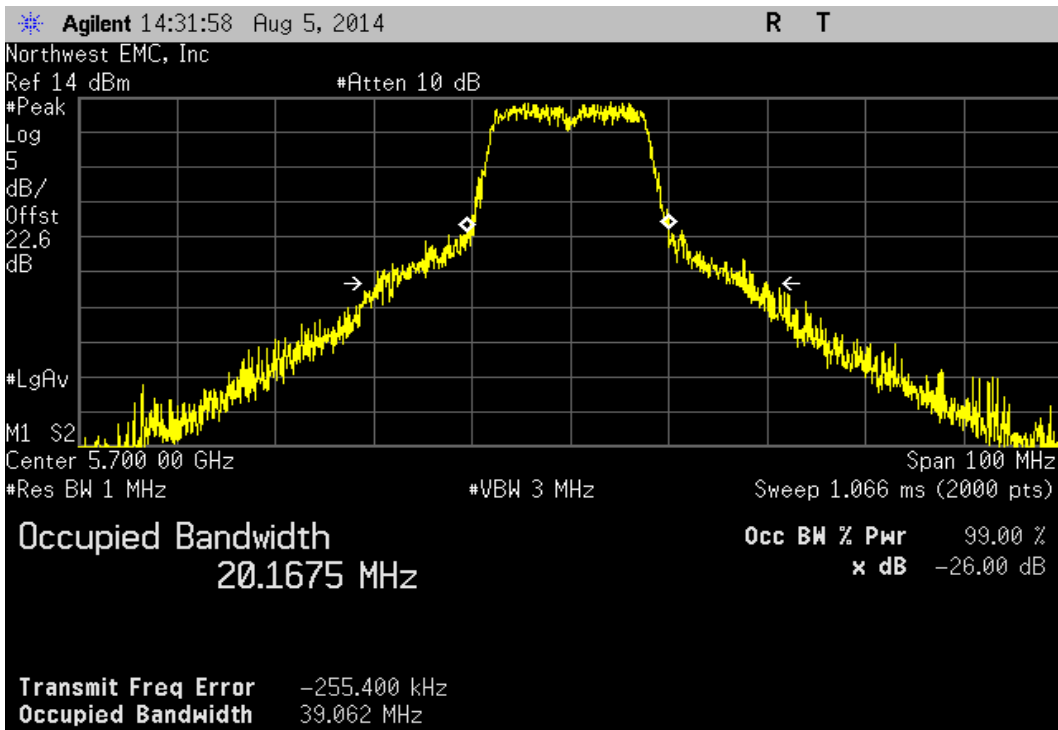
| 802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 100, Low Channel | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 32.234 MHz | 500 kHz | Pass |



| 802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 116, Mid Channel | | | |
|--|-----------|-----------|--------|
| | Value | Limit (>) | Result |
| | 37.64 MHz | 500 kHz | Pass |



| 802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 140, High Channel | | | | | | |
|---|--|--|--|------------|---------|--------|
| | | | | Value | Limit | Result |
| | | | | 39.062 MHz | 500 kHz | Pass |



PEAK TRANSMIT POWER

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

TEST EQUIPMENT

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

TEST DESCRIPTION

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

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

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

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

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



PEAK TRANSMIT POWER

XMIT 2014.02.07
NweTx 2014.07.18.3

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

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

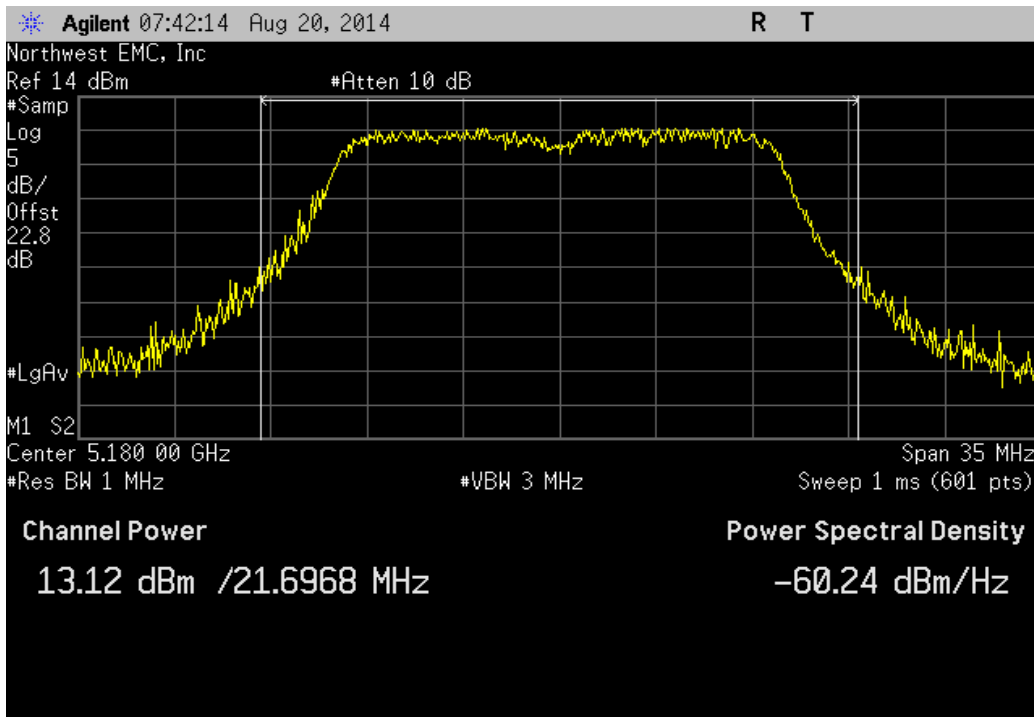
COMMENTS
None

DEVIATIONS FROM TEST STANDARD
None

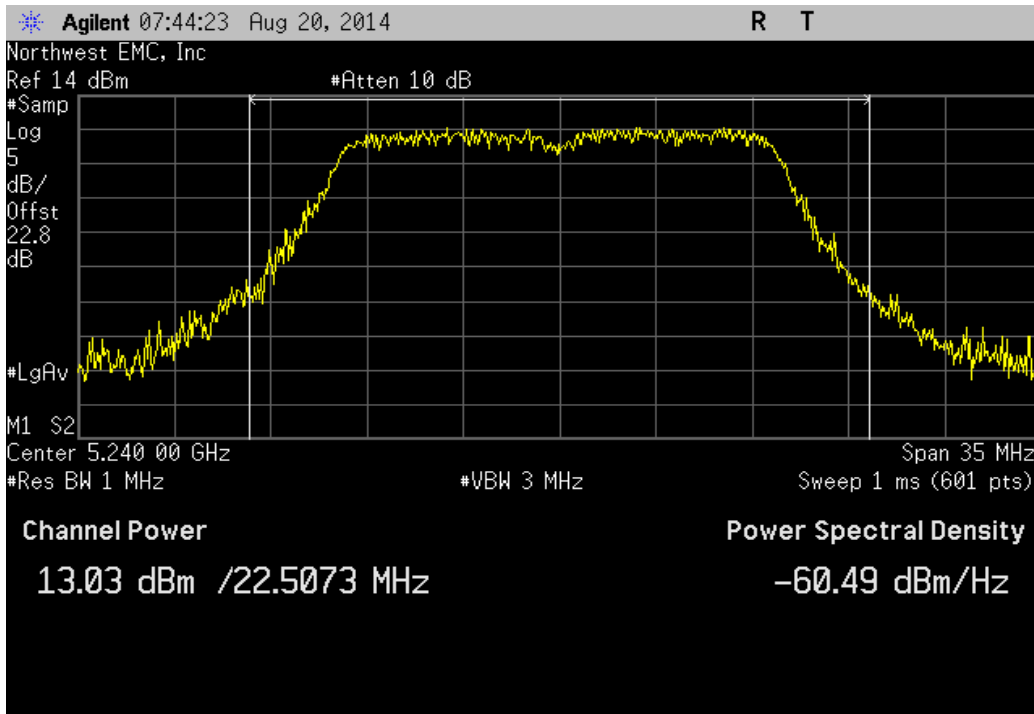
Configuration # 1
Signature *Trevor Buls*

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

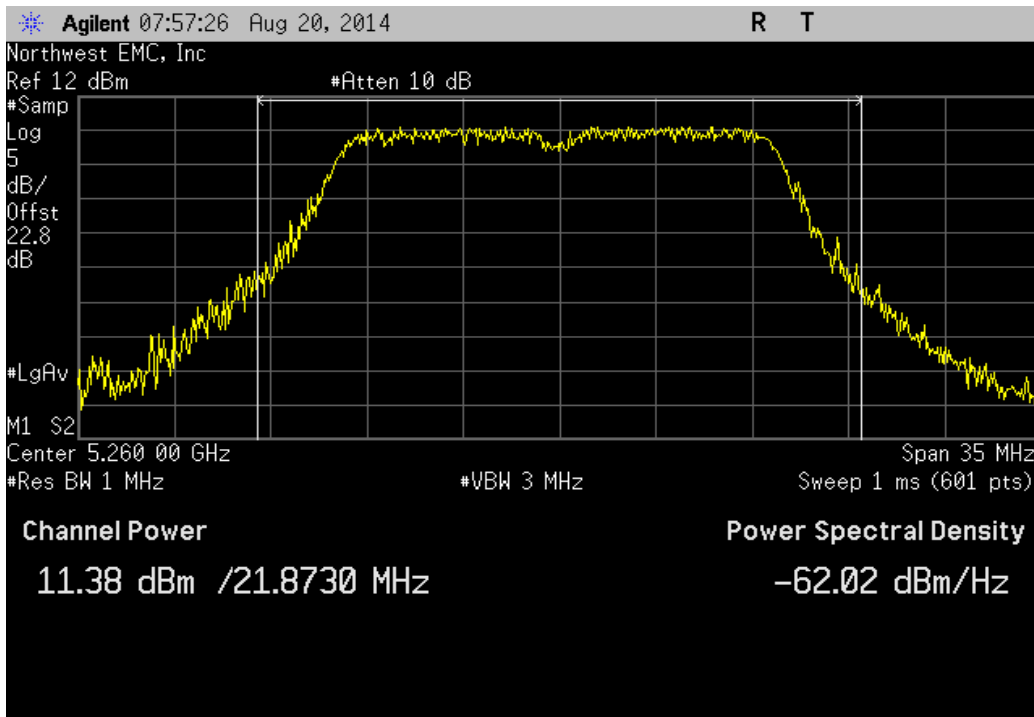
| Port 1, 802.11(a) 6 Mbps, Ch 36, Low Channel 5180 MHz | | | |
|---|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 13.123 dBm | 17 dBm | Pass |



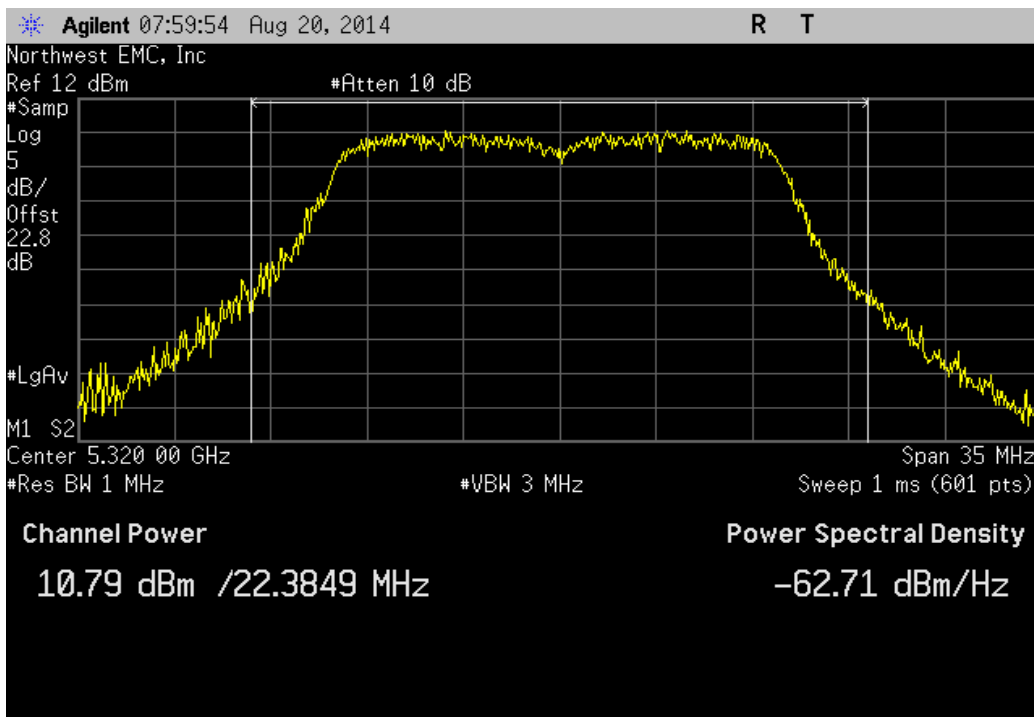
| Port 1, 802.11(a) 6 Mbps, Ch 48, High Channel 5240 MHz | | | |
|--|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 13.032 dBm | 17 dBm | Pass |



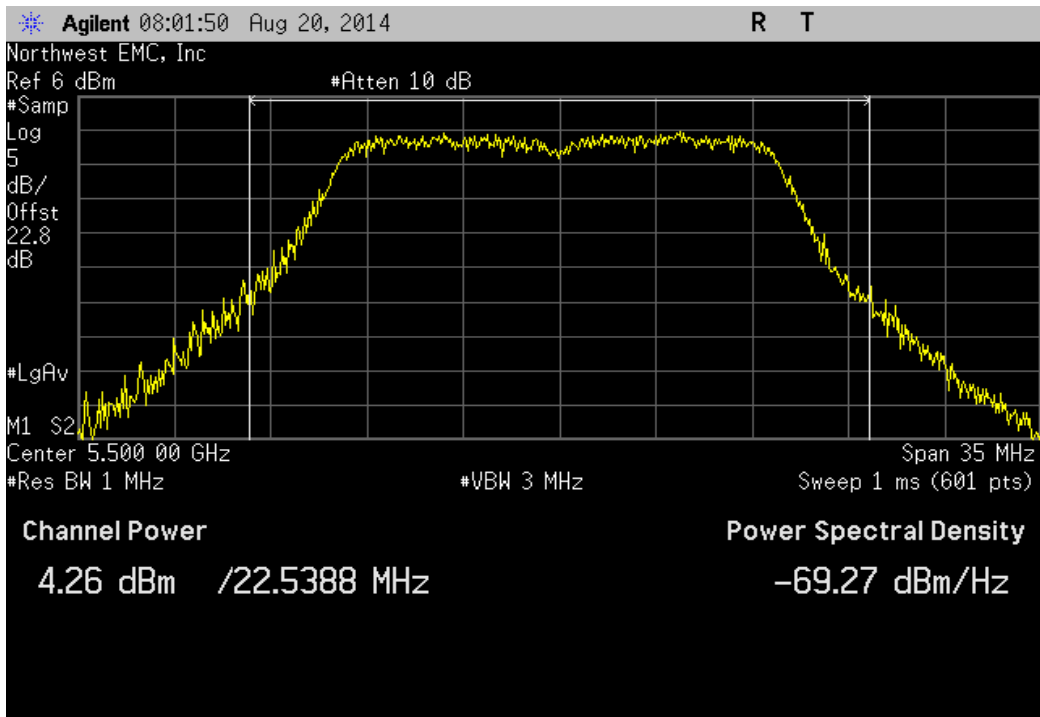
| Port 1, 802.11(a) 6 Mbps, Ch 52, Low Channel 5260 MHz | | | |
|---|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 11.384 dBm | 24 dBm | Pass |



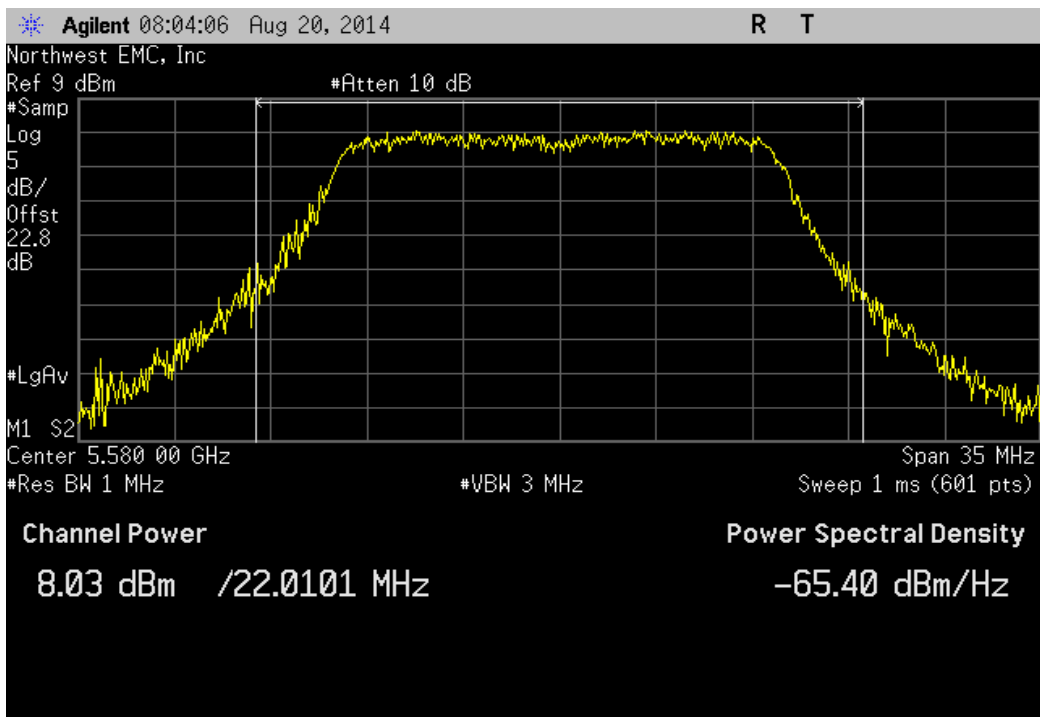
| Port 1, 802.11(a) 6 Mbps, Ch 64, High Channel 5320 MHz | | | |
|--|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 10.789 dBm | 24 dBm | Pass |



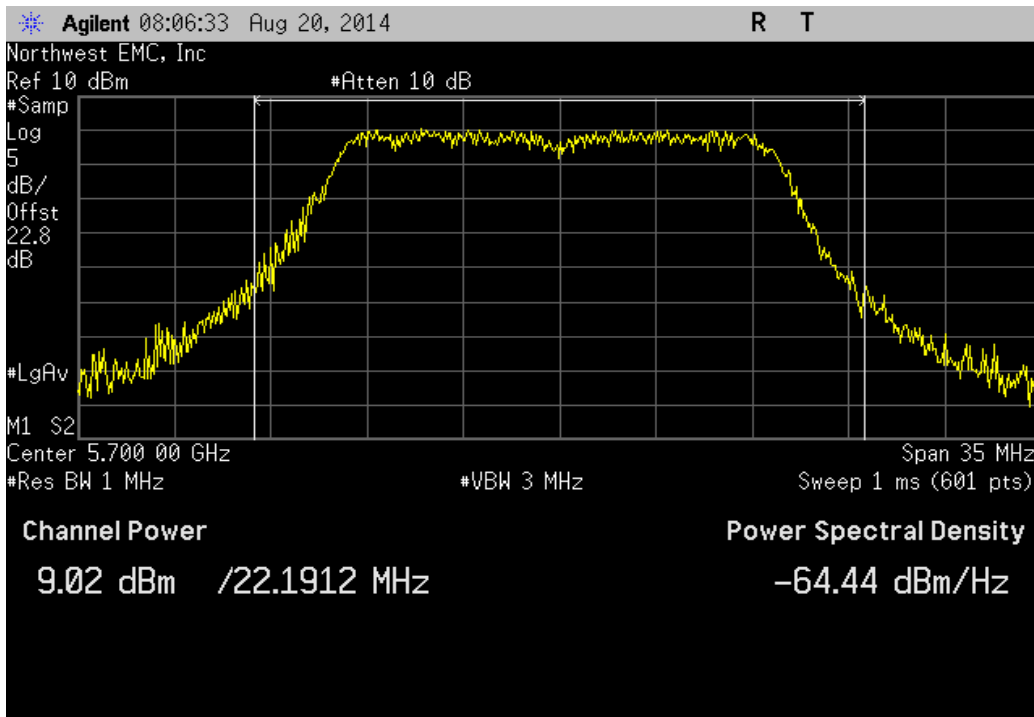
| Port 1, 802.11(a) 6 Mbps, Ch 100, Low Channel 5500 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 4.257 dBm | 24 dBm | Pass |



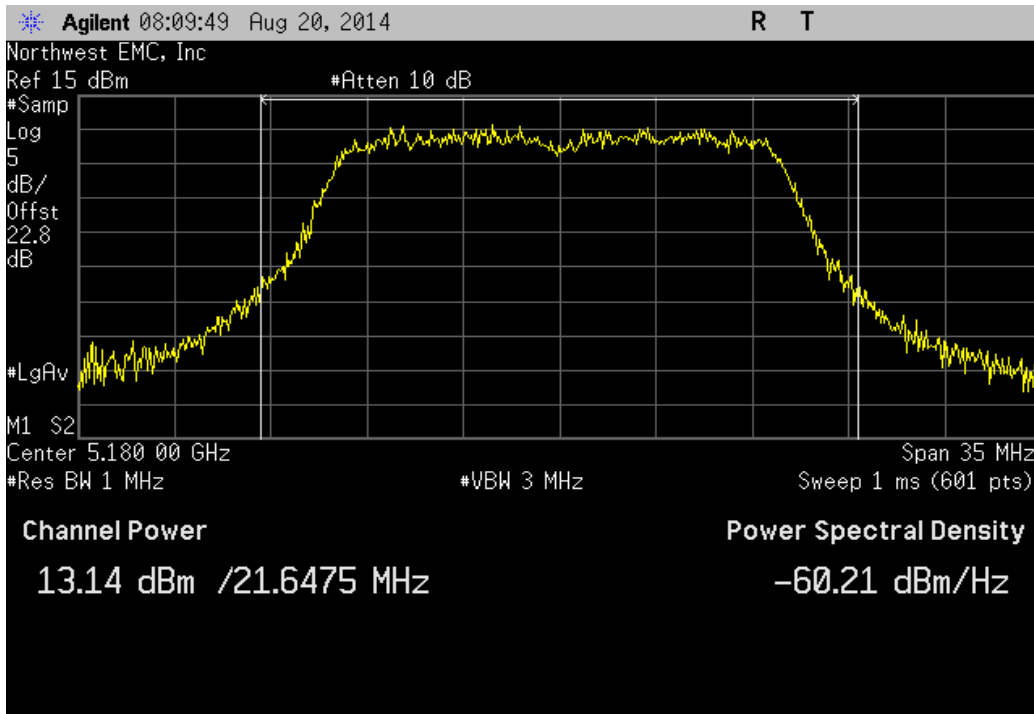
| Port 1, 802.11(a) 6 Mbps, Ch 116, Mid Channel 5580 MHz | | | |
|--|----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 8.03 dBm | 24 dBm | Pass |



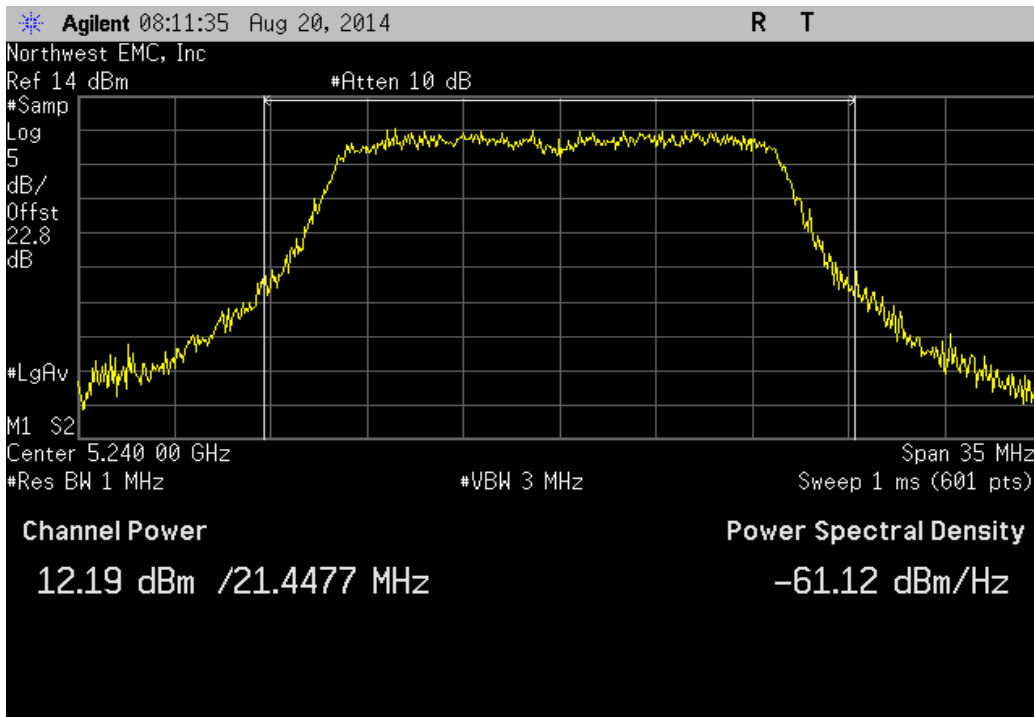
| Port 1, 802.11(a) 6 Mbps, Ch 140, High Channel 5700 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 9.018 dBm | 24 dBm | Pass |



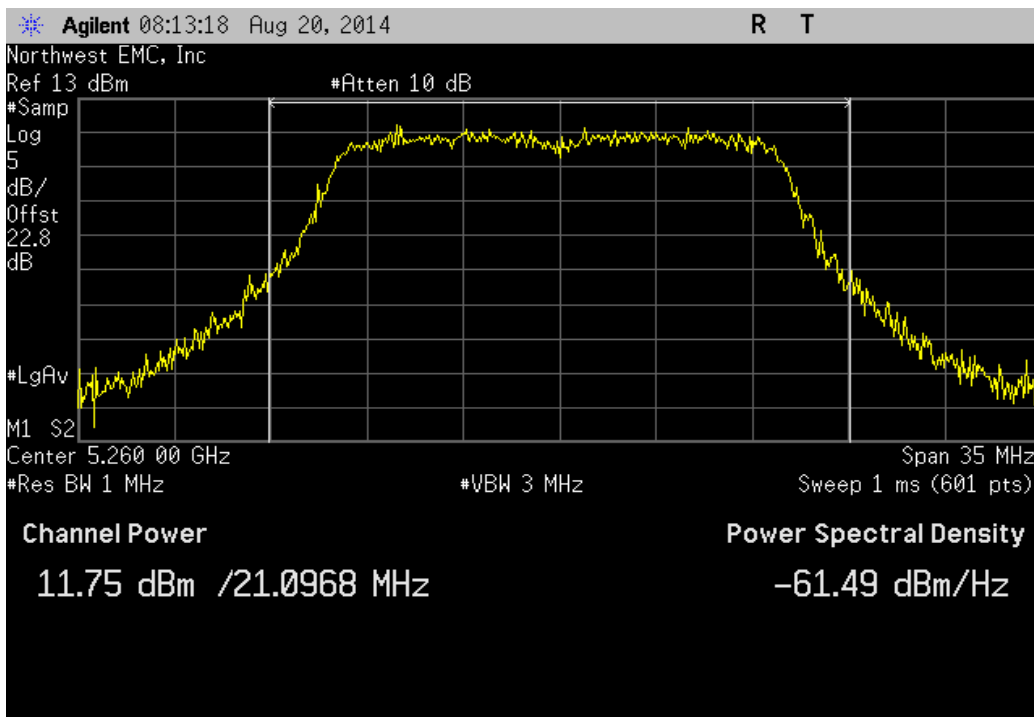
| Port 1, 802.11(a) 36 Mbps, Ch 36, Low Channel 5180 MHz | | | |
|--|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 13.141 dBm | 17 dBm | Pass |



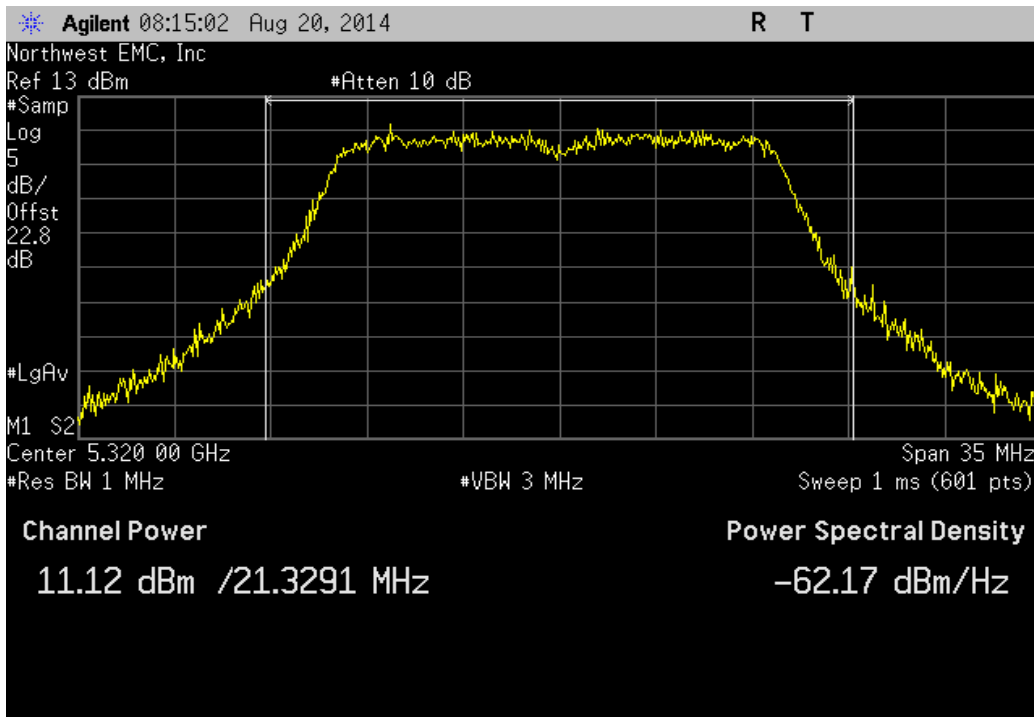
| Port 1, 802.11(a) 36 Mbps, Ch 48, High Channel 5240 MHz | | | |
|---|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 12.193 dBm | 17 dBm | Pass |



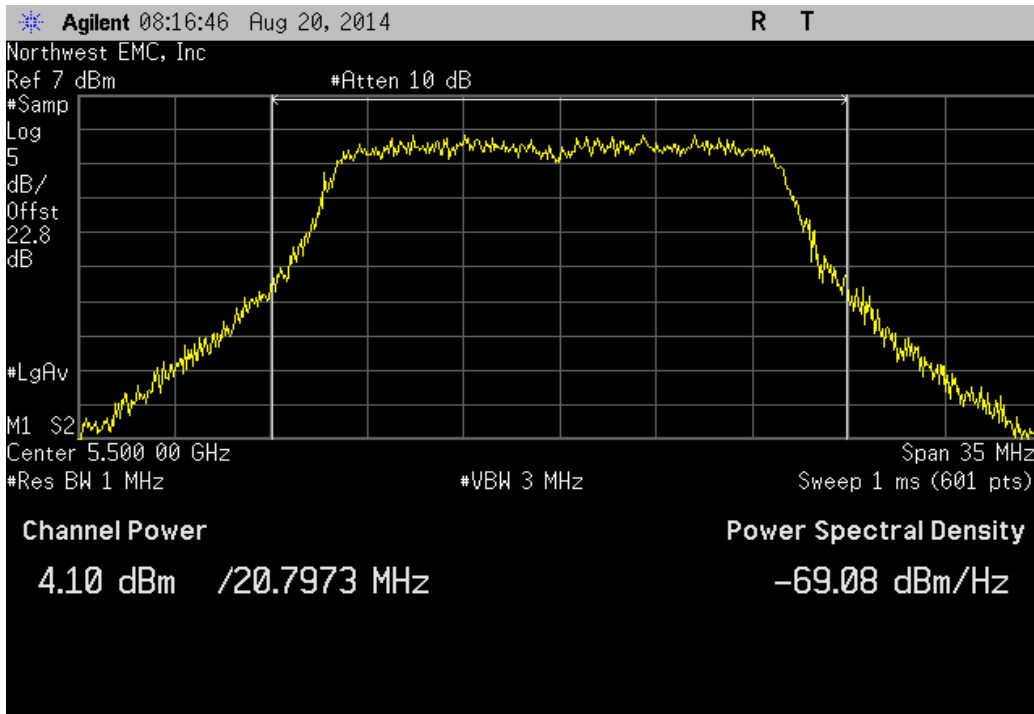
| Port 1, 802.11(a) 36 Mbps, Ch 52, Low Channel 5260 MHz | | | |
|--|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 11.751 dBm | 24 dBm | Pass |



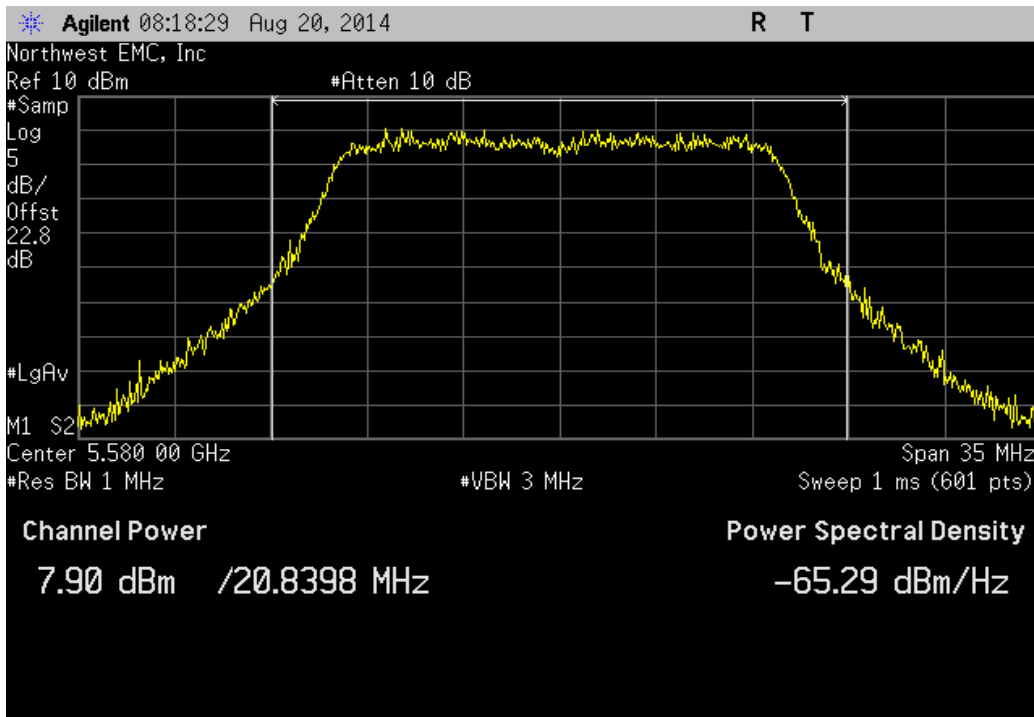
| Port 1, 802.11(a) 36 Mbps, Ch 64, High Channel 5320 MHz | | | |
|---|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 11.115 dBm | 24 dBm | Pass |



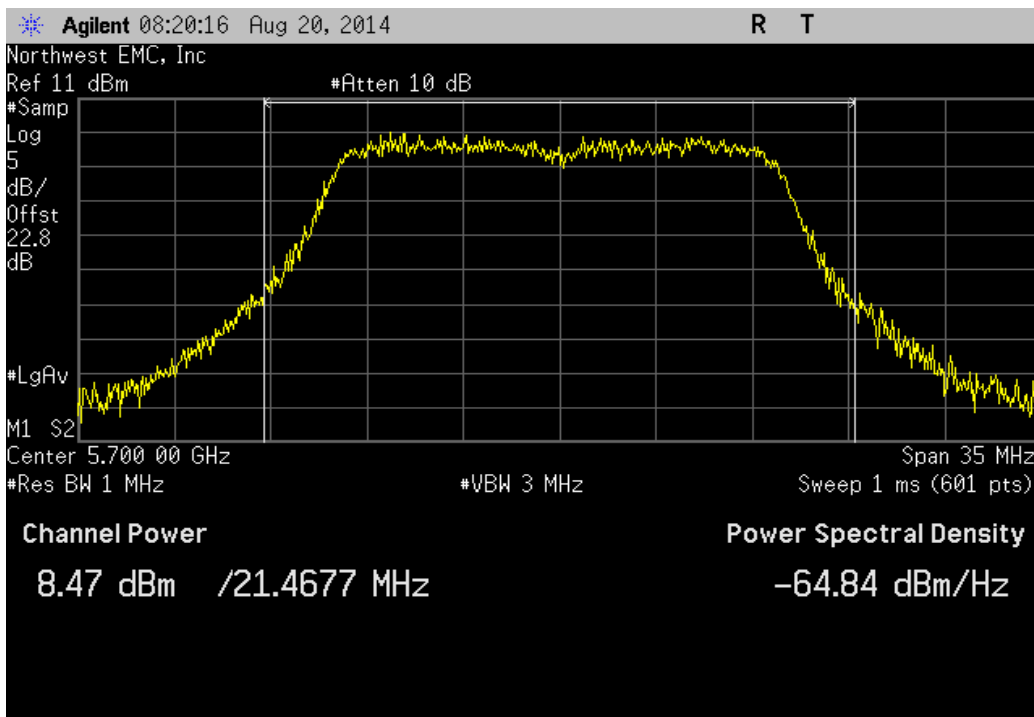
| Port 1, 802.11(a) 36 Mbps, Ch 100, Low Channel 5500 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 4.099 dBm | 24 dBm | Pass |



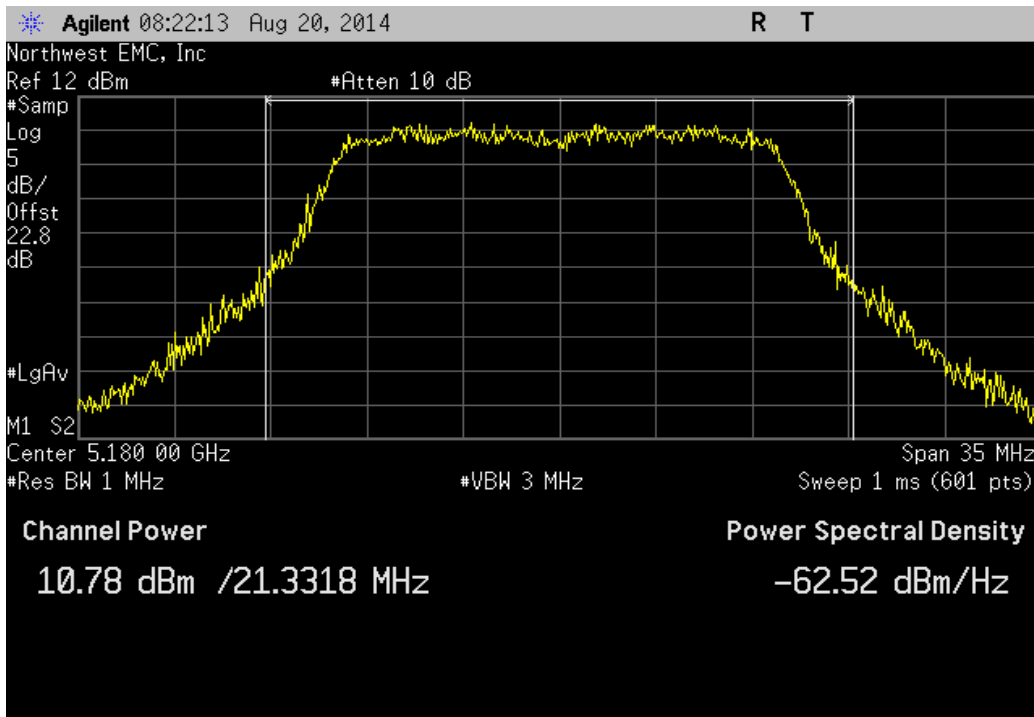
| Port 1, 802.11(a) 36 Mbps, Ch 116, Mid Channel 5580 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 7.903 dBm | 24 dBm | Pass |



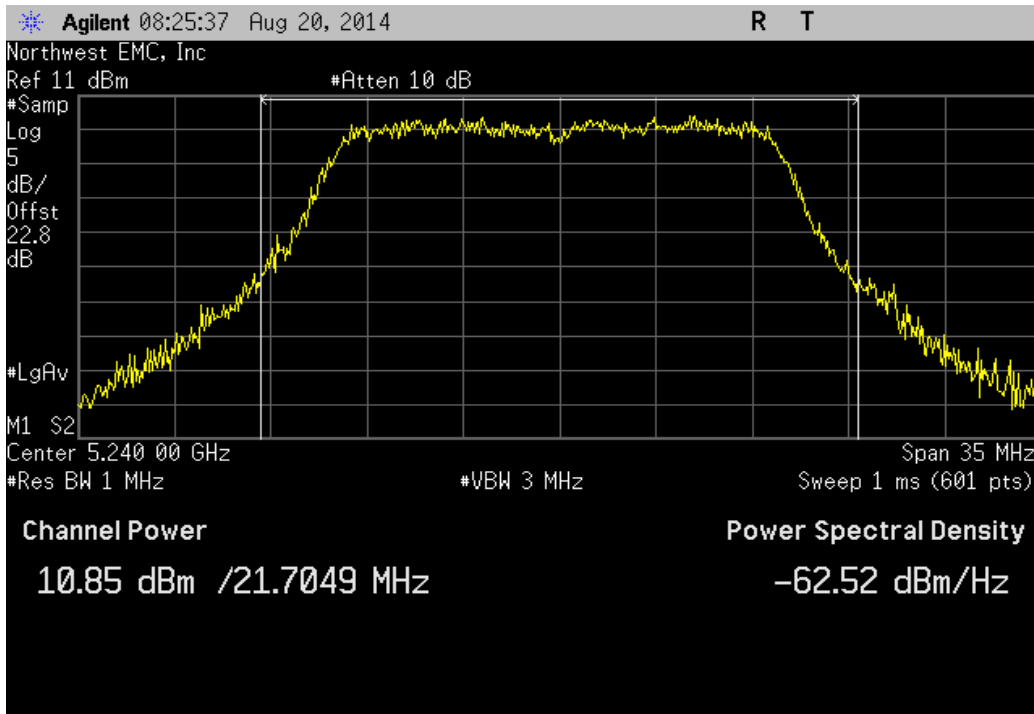
| Port 1, 802.11(a) 36 Mbps, Ch 140, High Channel 5700 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 8.475 dBm | 24 dBm | Pass |



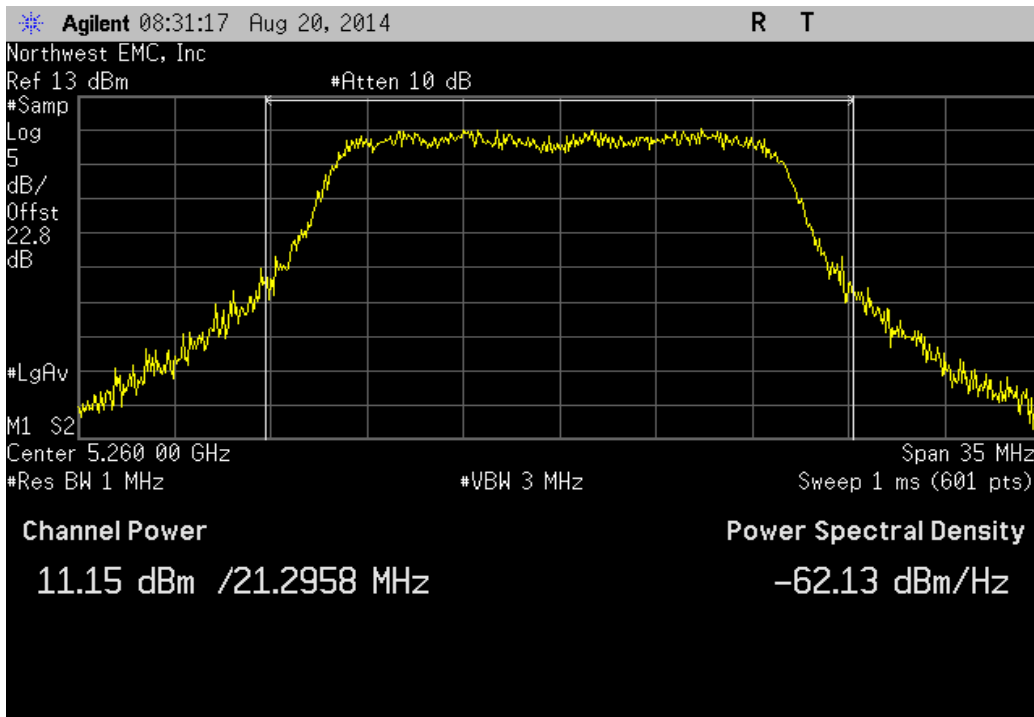
| Port 1, 802.11(a) 54 Mbps, Ch 36, Low Channel 5180 MHz | | | |
|--|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 10.775 dBm | 17 dBm | Pass |



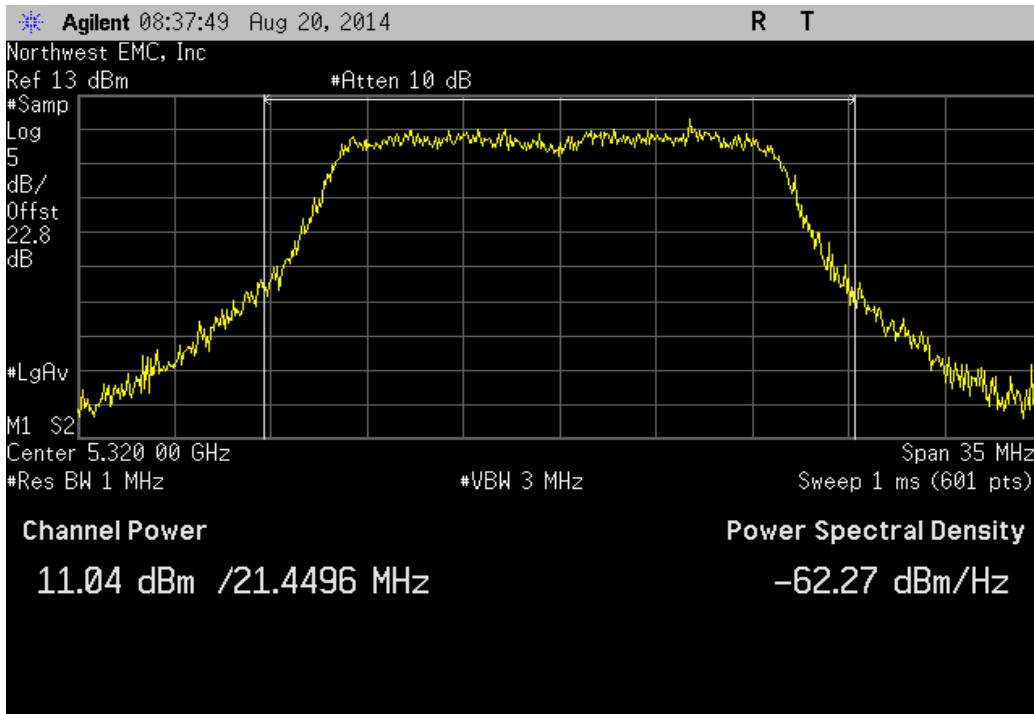
| Port 1, 802.11(a) 54 Mbps, Ch 48, High Channel 5240 MHz | | | |
|---|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 10.847 dBm | 17 dBm | Pass |



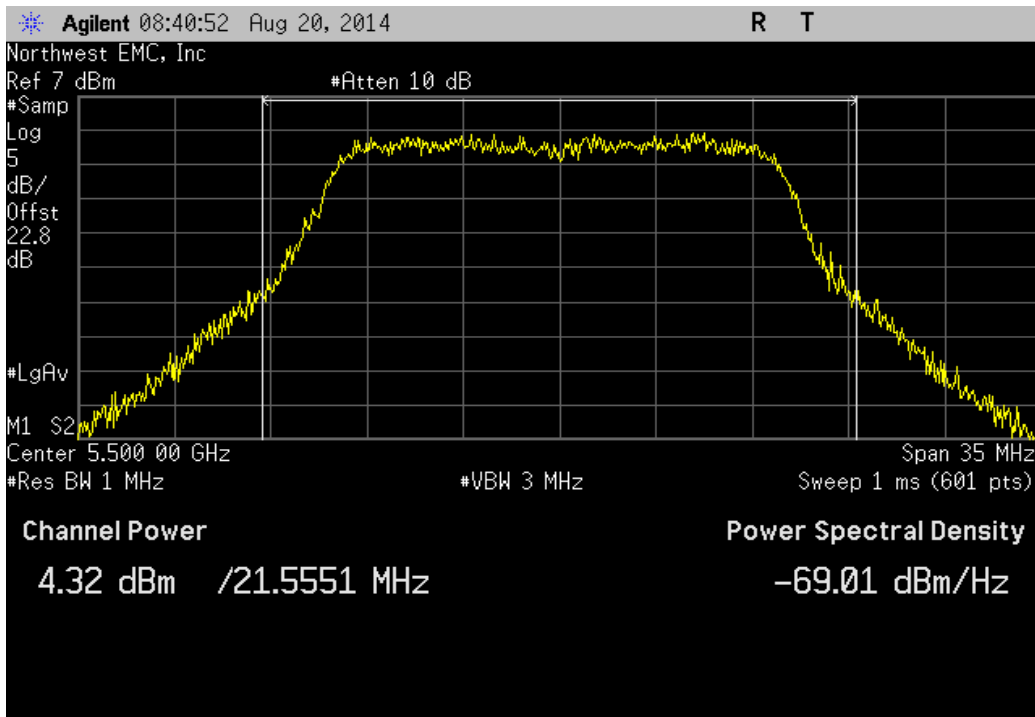
| Port 1, 802.11(a) 54 Mbps, Ch 52, Low Channel 5260 MHz | | | |
|--|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 11.155 dBm | 24 dBm | Pass |



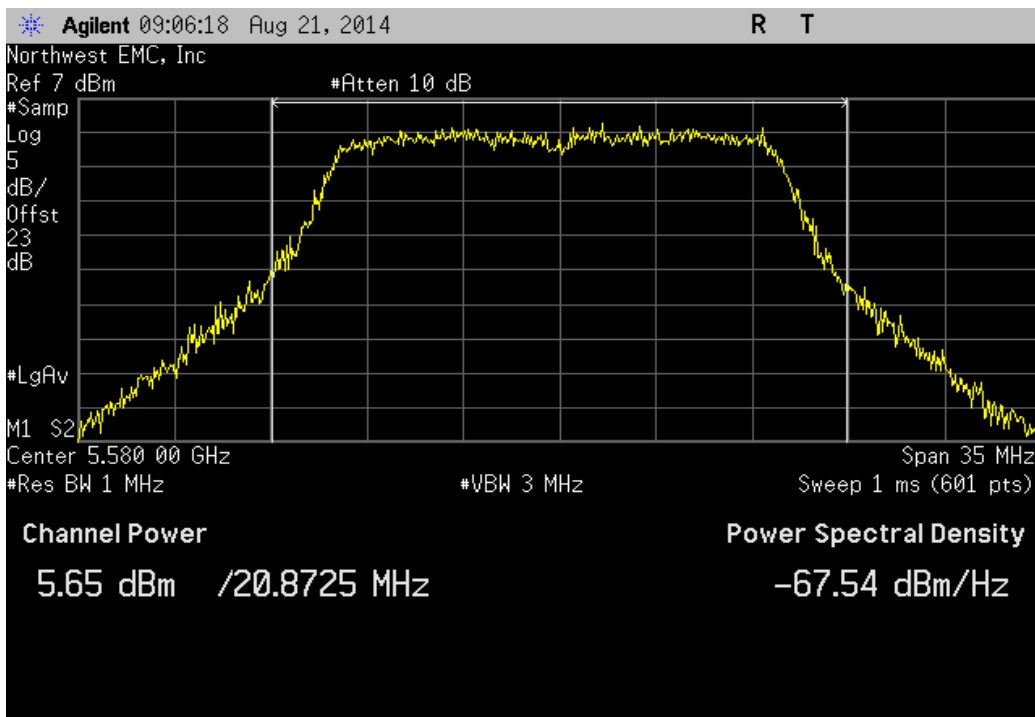
| Port 1, 802.11(a) 54 Mbps, Ch 64, High Channel 5320 MHz | | | |
|---|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 11.039 dBm | 24 dBm | Pass |



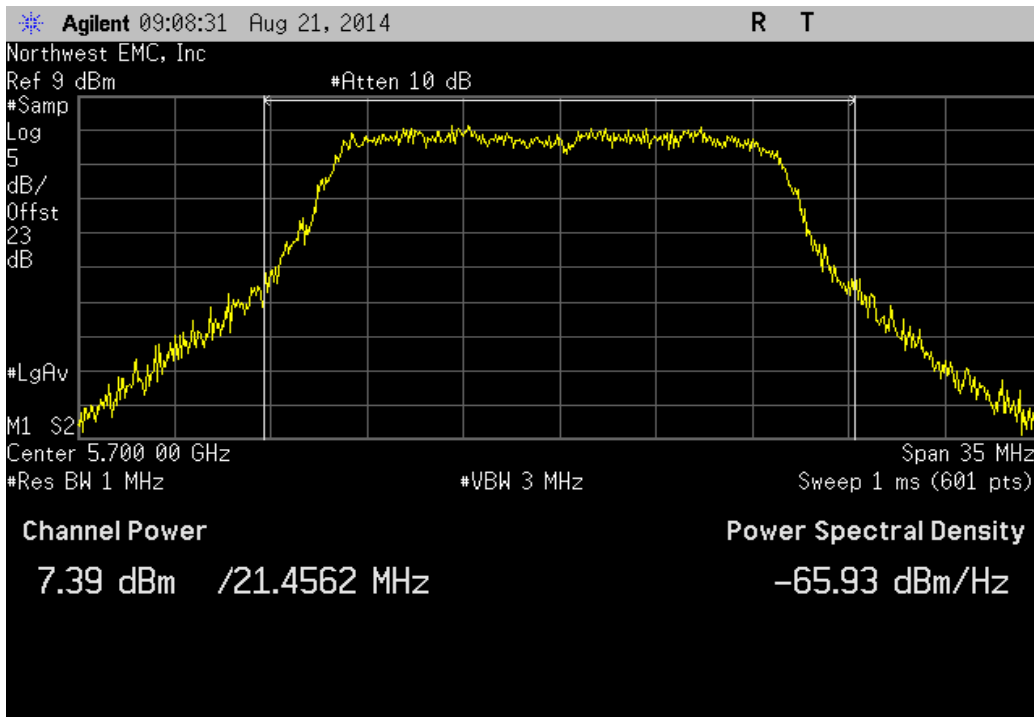
| Port 1, 802.11(a) 54 Mbps, Ch 100, Low Channel 5500 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 4.325 dBm | 24 dBm | Pass |



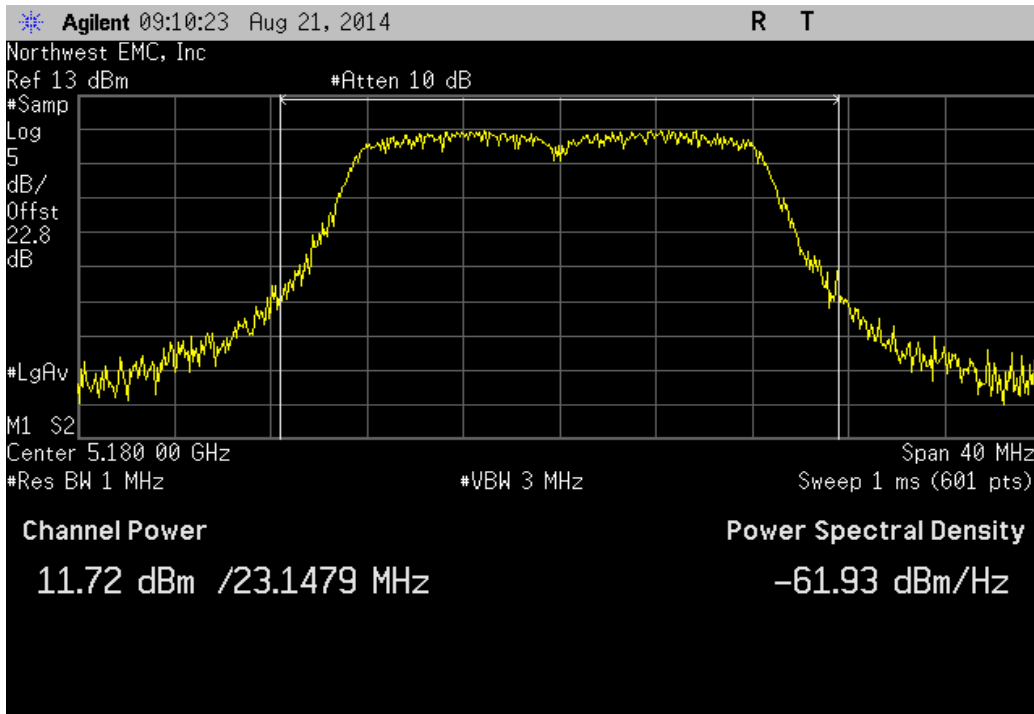
| Port 1, 802.11(a) 54 Mbps, Ch 116, Mid Channel 5580 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 5.651 dBm | 24 dBm | Pass |



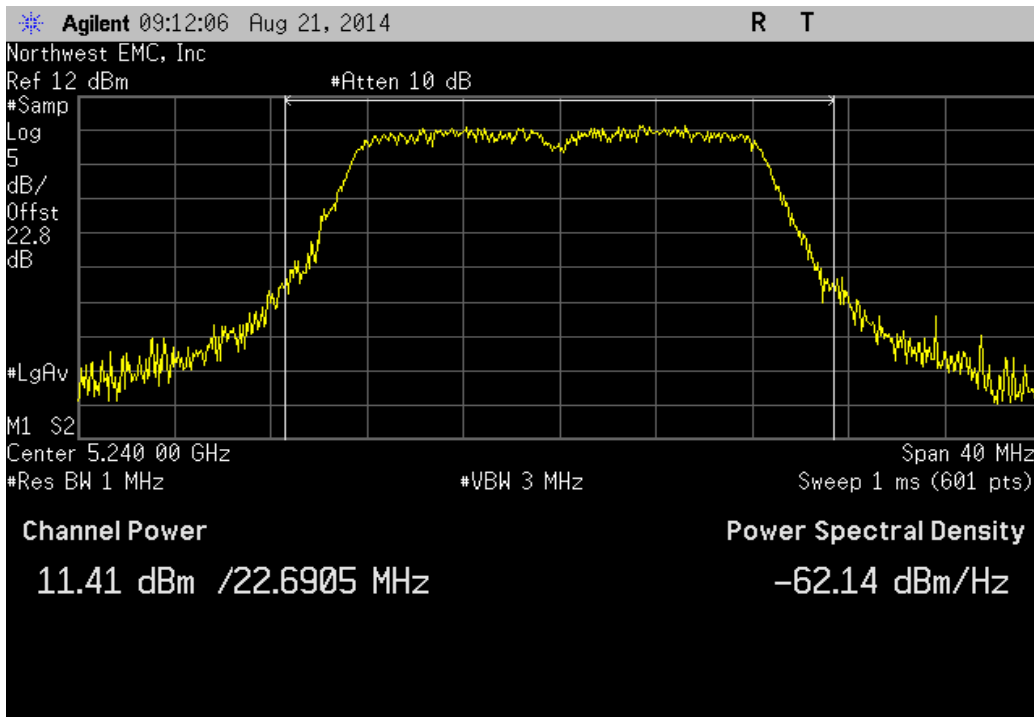
| Port 1, 802.11(a) 54 Mbps, Ch 140, High Channel 5700 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 7.386 dBm | 24 dBm | Pass |



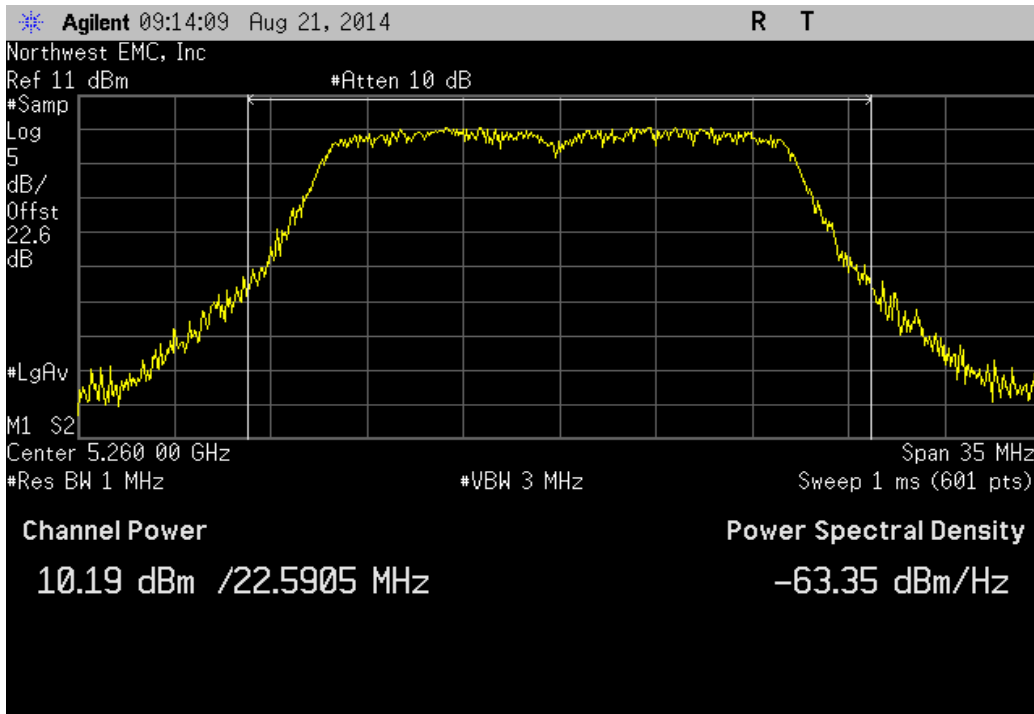
| Port 1, 802.11(n) MCS0, Ch 36, Low Channel 5180 MHz | | | |
|---|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 11.716 dBm | 17 dBm | Pass |



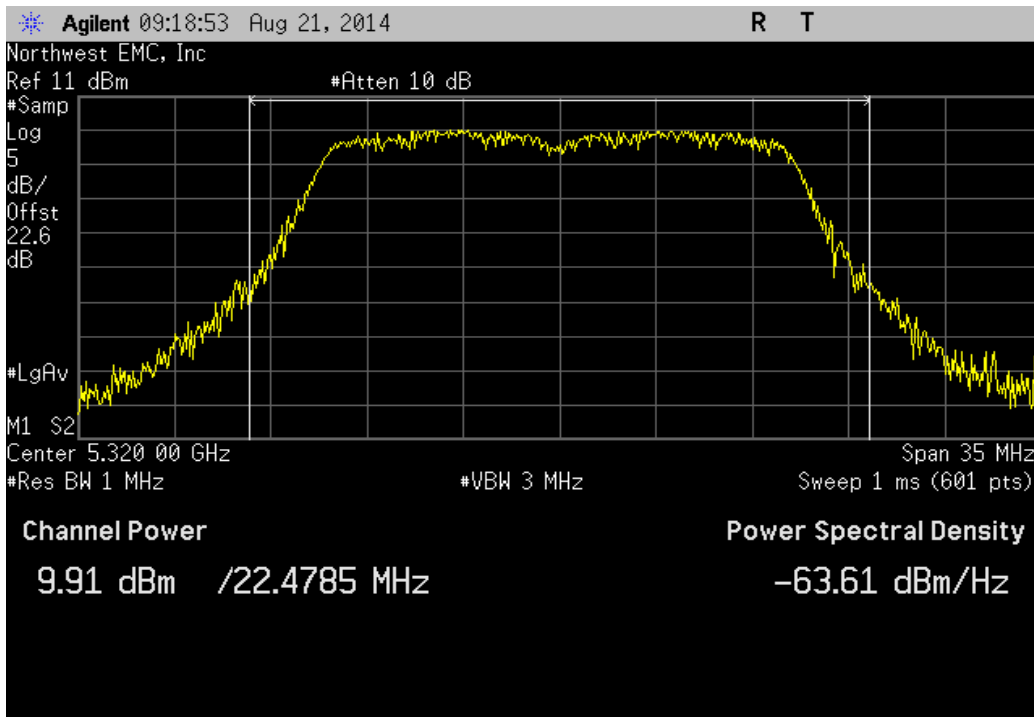
| Port 1, 802.11(n) MCS0, Ch 48, High Channel 5240 MHz | | | |
|--|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 11.414 dBm | 17 dBm | Pass |



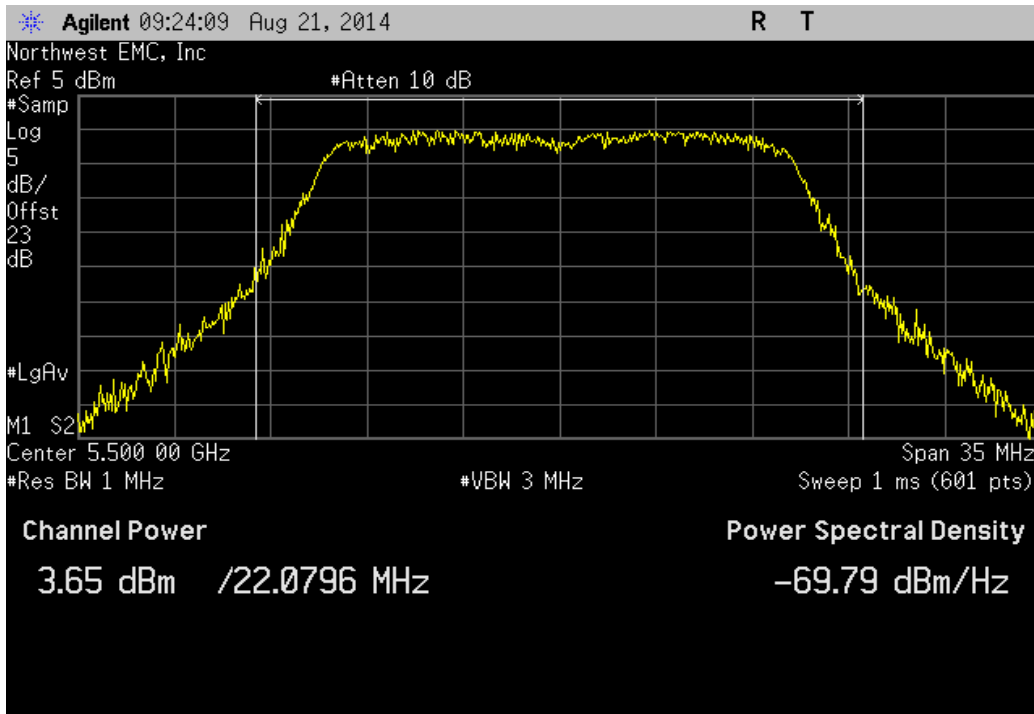
| Port 1, 802.11(n) MCS0, Ch 52, Low Channel 5260 MHz | | | |
|---|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 10.193 dBm | 24 dBm | Pass |



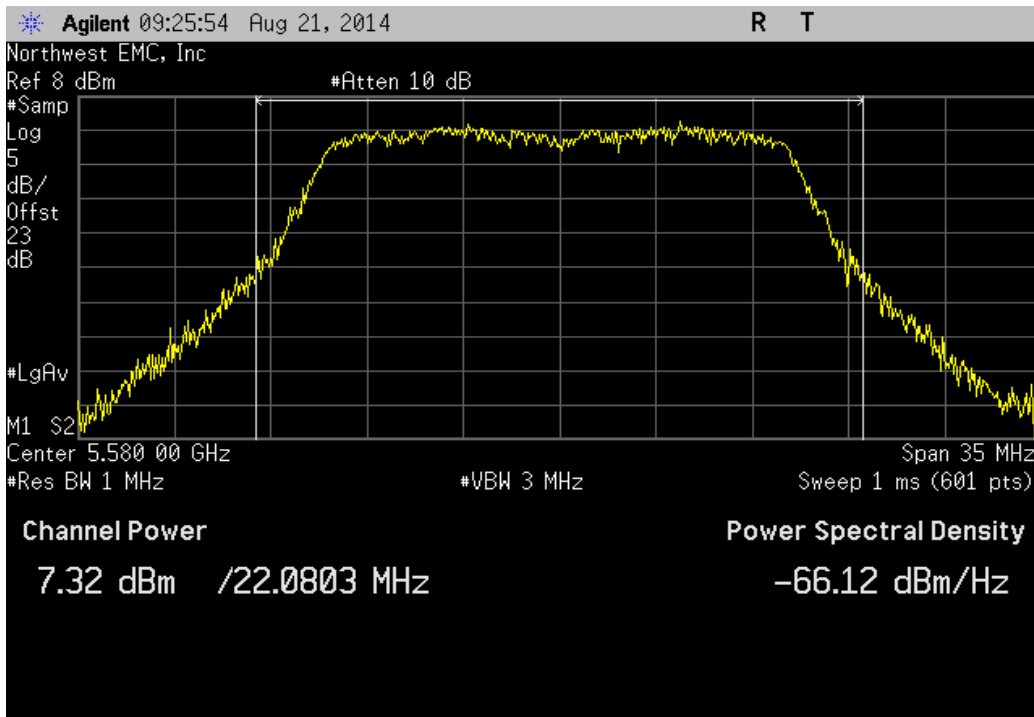
| Port 1, 802.11(n) MCS0, Ch 64, High Channel 5320 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 9.913 dBm | 24 dBm | Pass |



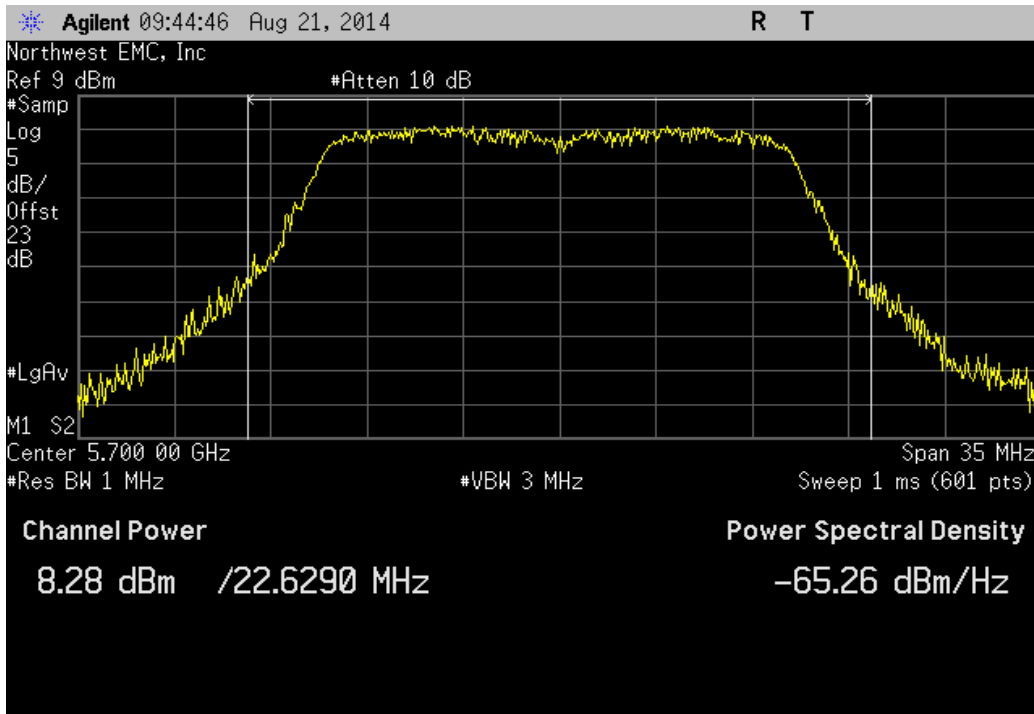
| Port 1, 802.11(n) MCS0, Ch 100, Low Channel 5500 MHz | | | |
|--|----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 3.65 dBm | 24 dBm | Pass |



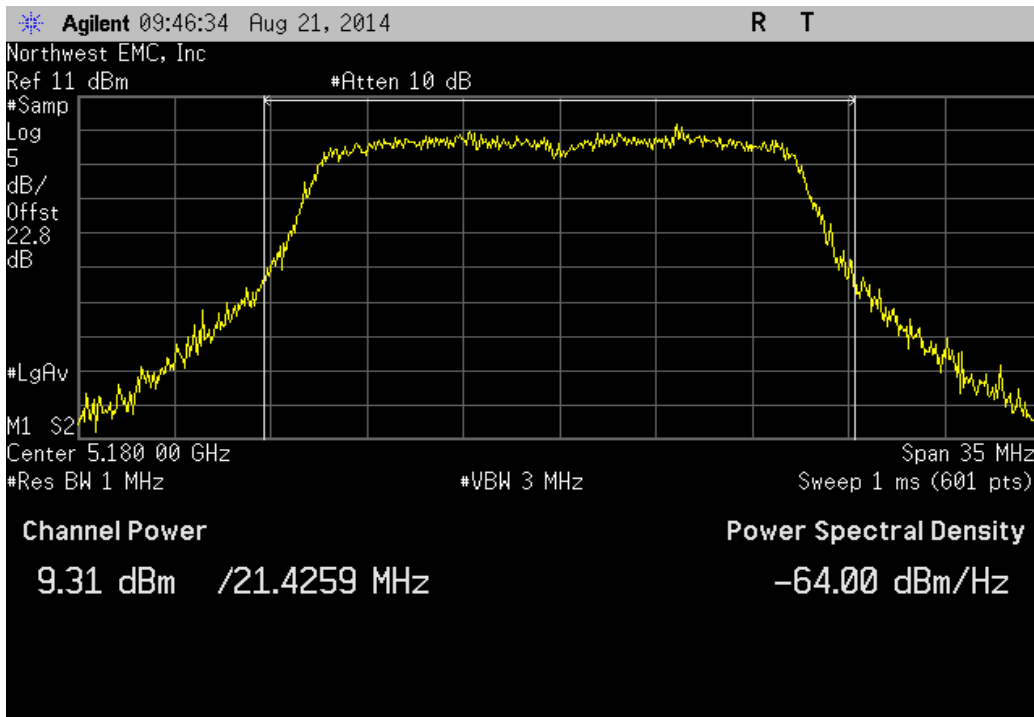
| Port 1, 802.11(n) MCS0, Ch 116, Mid Channel 5580 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 7.325 dBm | 24 dBm | Pass |



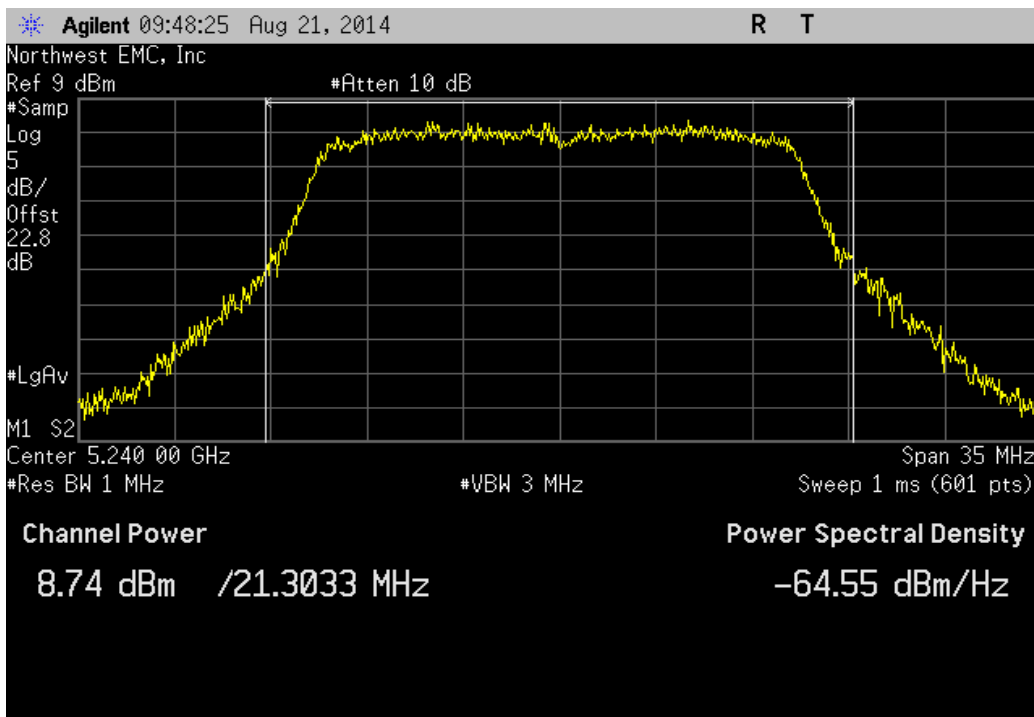
| Port 1, 802.11(n) MCS0, Ch 140, High Channel 5700 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 8.285 dBm | 24 dBm | Pass |



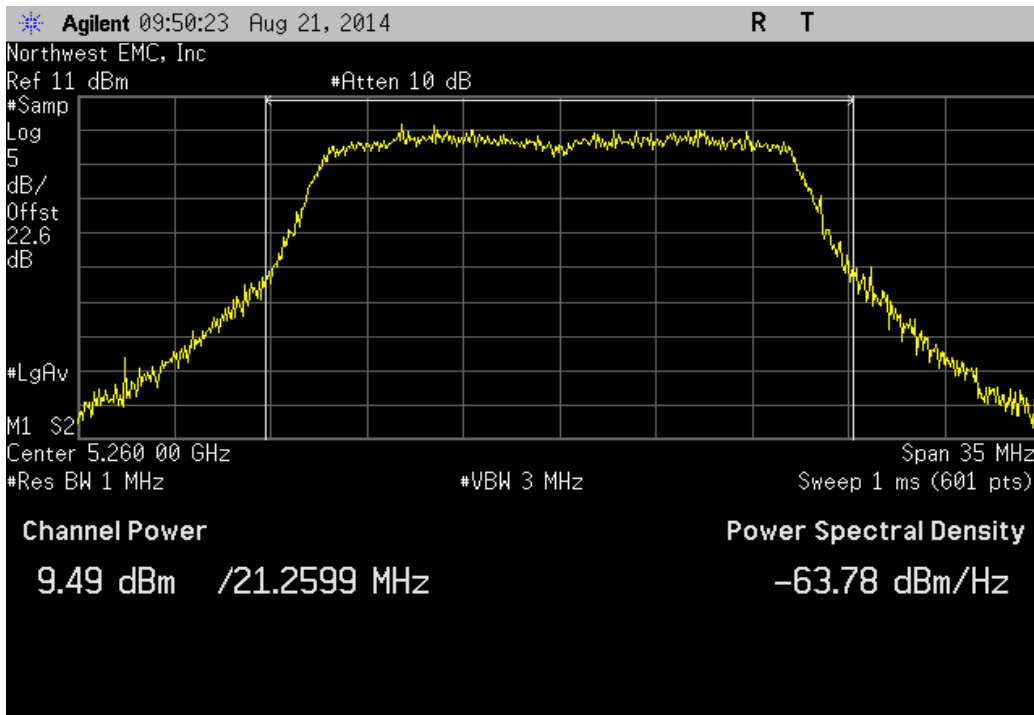
| Port 1, 802.11(n) MCS7, Ch 36, Low Channel 5180 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 9.307 dBm | 17 dBm | Pass |



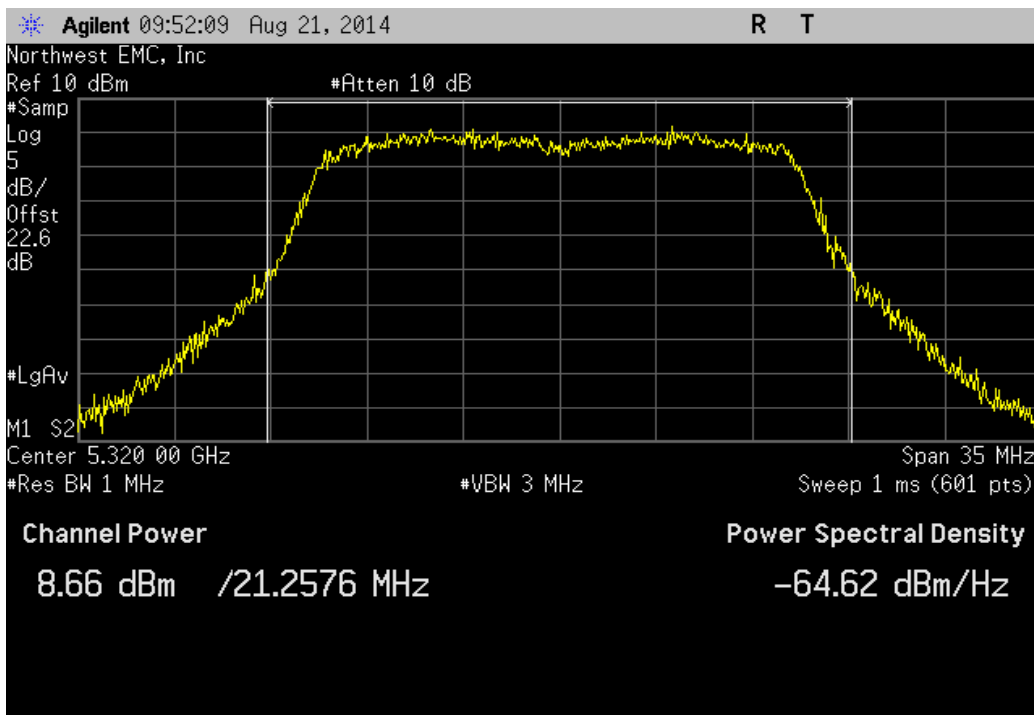
| Port 1, 802.11(n) MCS7, Ch 48, High Channel 5240 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 8.737 dBm | 17 dBm | Pass |



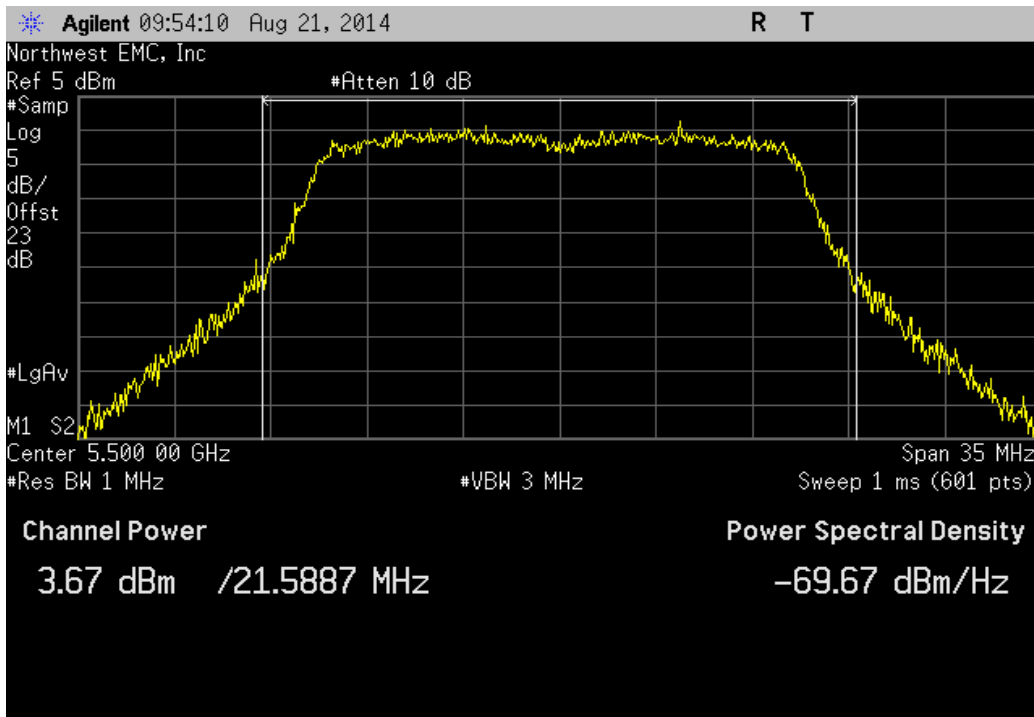
| Port 1, 802.11(n) MCS7, Ch 52, Low Channel 5260 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 9.494 dBm | 24 dBm | Pass |



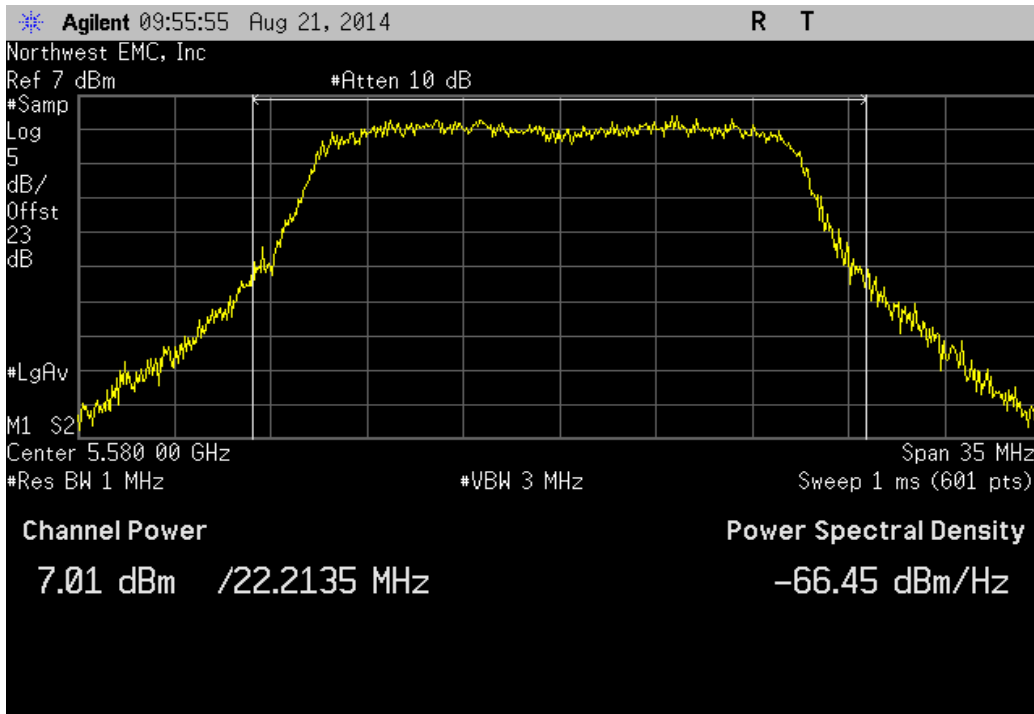
| Port 1, 802.11(n) MCS7, Ch 64, High Channel 5320 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 8.658 dBm | 24 dBm | Pass |



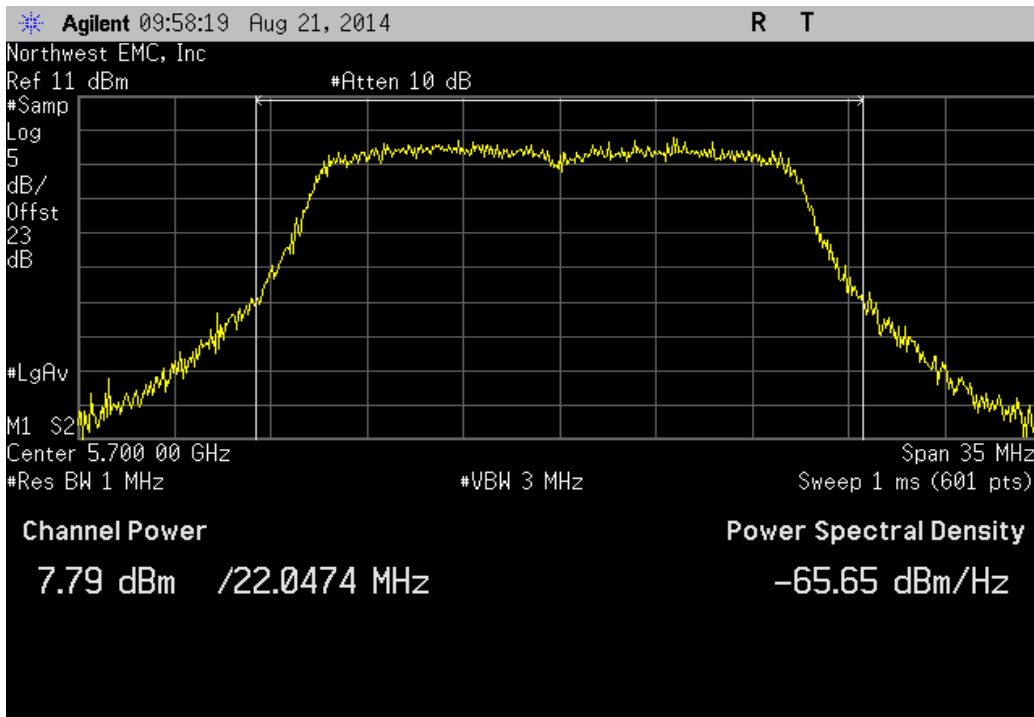
| Port 1, 802.11(n) MCS7, Ch 100, Low Channel 5500 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 3.668 dBm | 24 dBm | Pass |



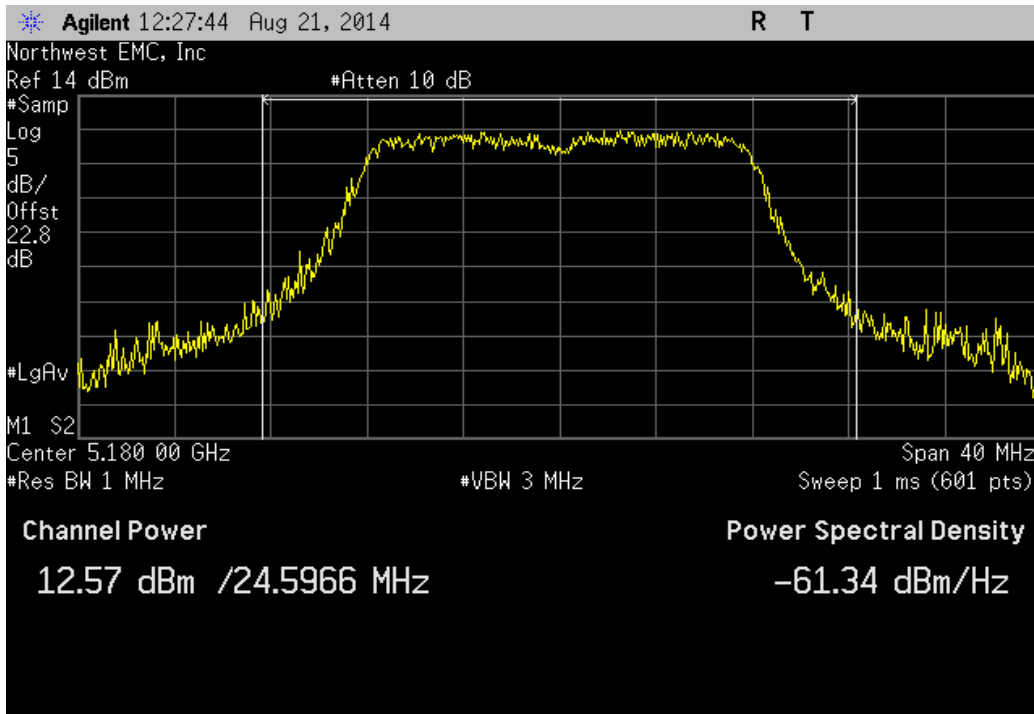
| Port 1, 802.11(n) MCS7, Ch 116, Mid Channel 5580 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 7.014 dBm | 24 dBm | Pass |



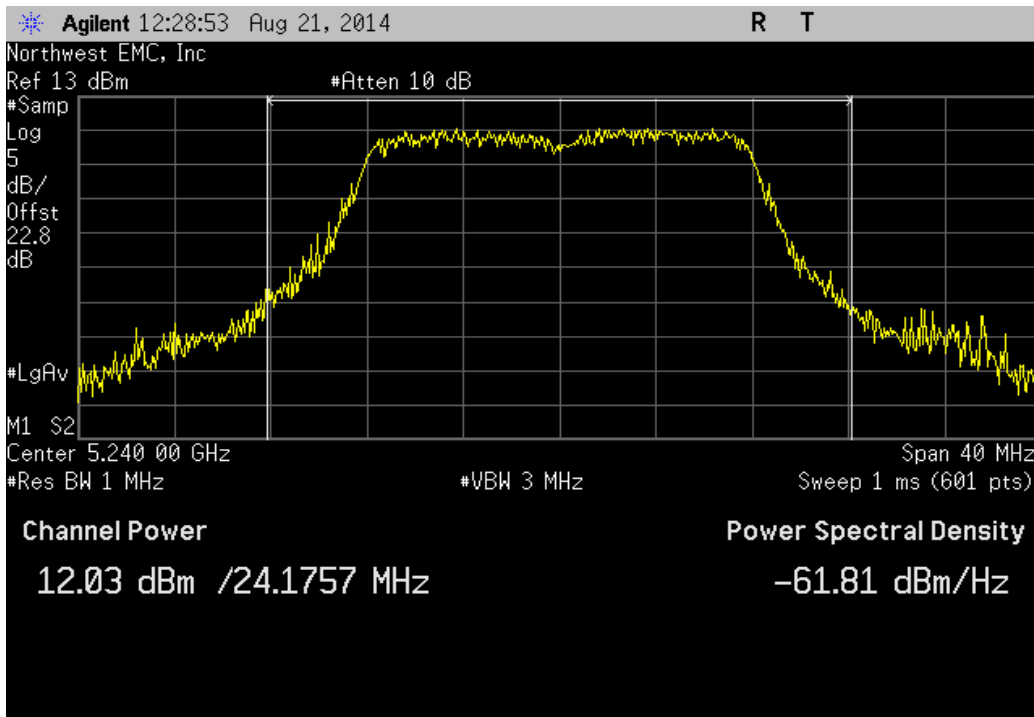
| Port 1, 802.11(n) MCS7, Ch 140, High Channel 5700 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 7.786 dBm | 24 dBm | Pass |



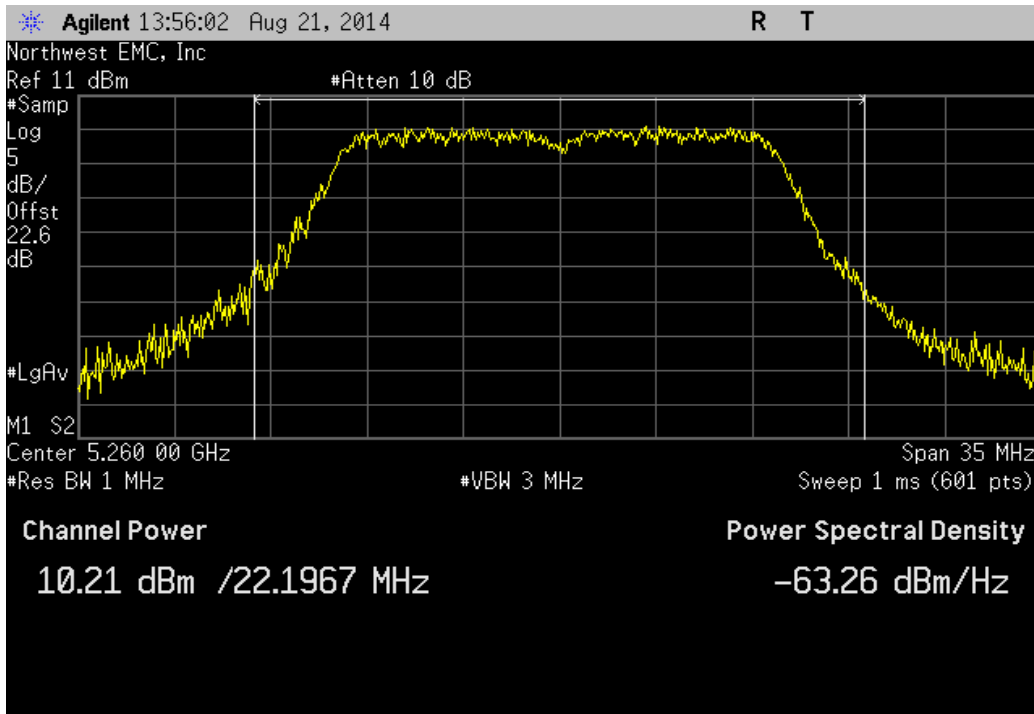
| Port 2, 802.11(a) 6 Mbps, Ch 36, Low Channel 5180 MHz | | | |
|---|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 12.572 dBm | 17 dBm | Pass |



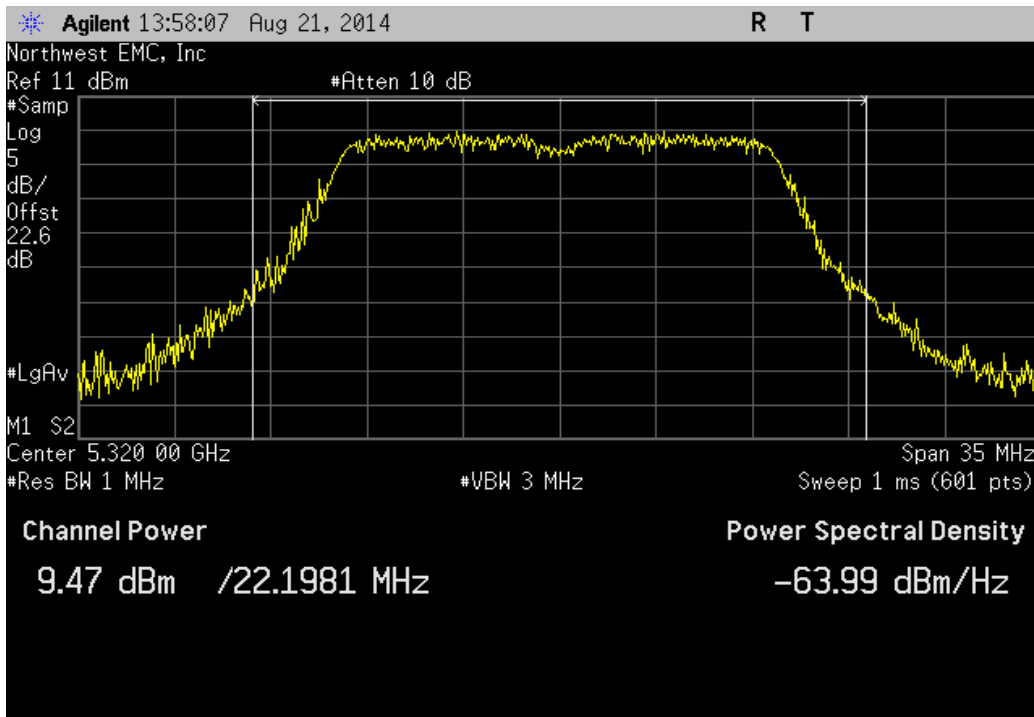
| Port 2, 802.11(a) 6 Mbps, Ch 48, High Channel 5240 MHz | | | |
|--|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 12.028 dBm | 17 dBm | Pass |



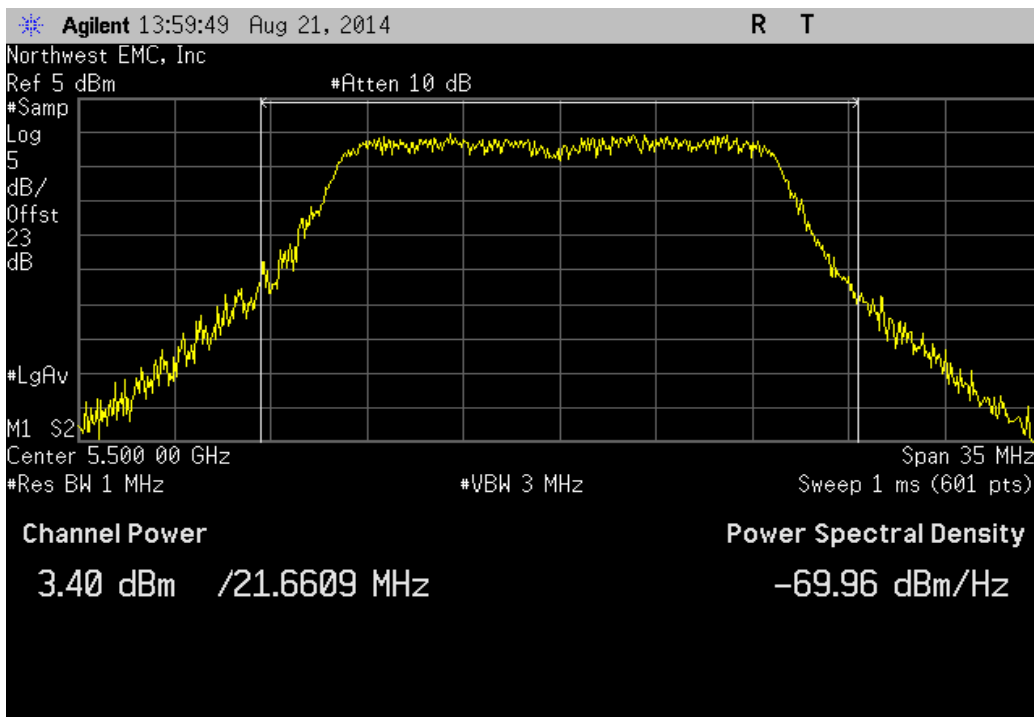
| Port 2, 802.11(a) 6 Mbps, Ch 52, Low Channel 5260 MHz | | | |
|---|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 10.208 dBm | 24 dBm | Pass |



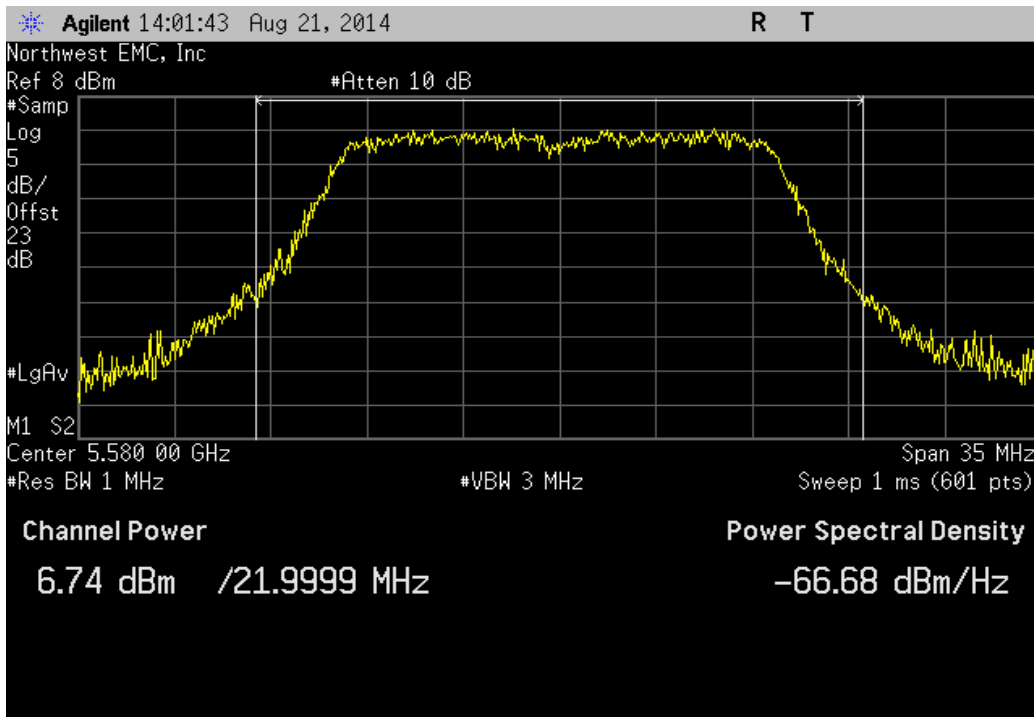
| Port 2, 802.11(a) 6 Mbps, Ch 64, High Channel 5320 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 9.473 dBm | 24 dBm | Pass |



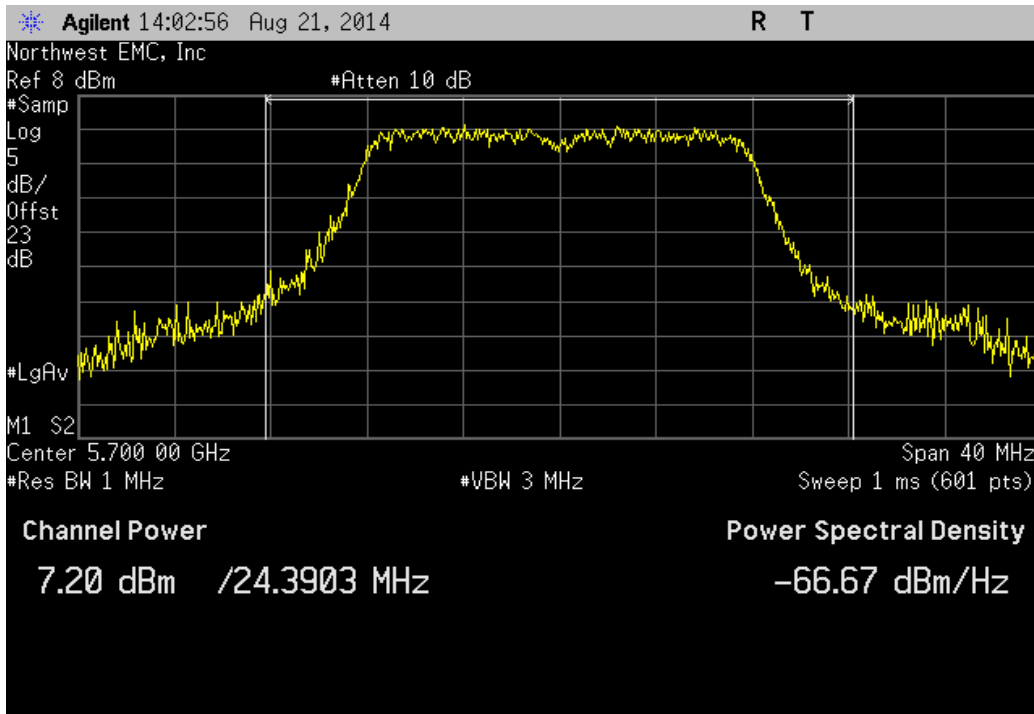
| Port 2, 802.11(a) 6 Mbps, Ch 100, Low Channel 5500 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 3.401 dBm | 24 dBm | Pass |



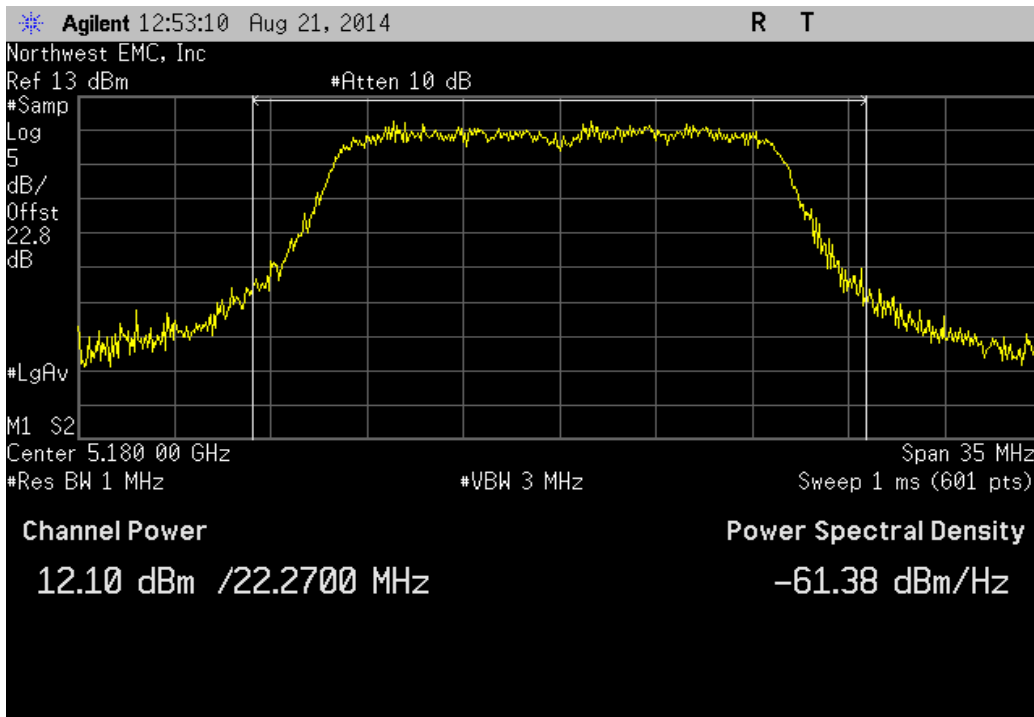
| Port 2, 802.11(a) 6 Mbps, Ch 116, Mid Channel 5580 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 6.744 dBm | 24 dBm | Pass |



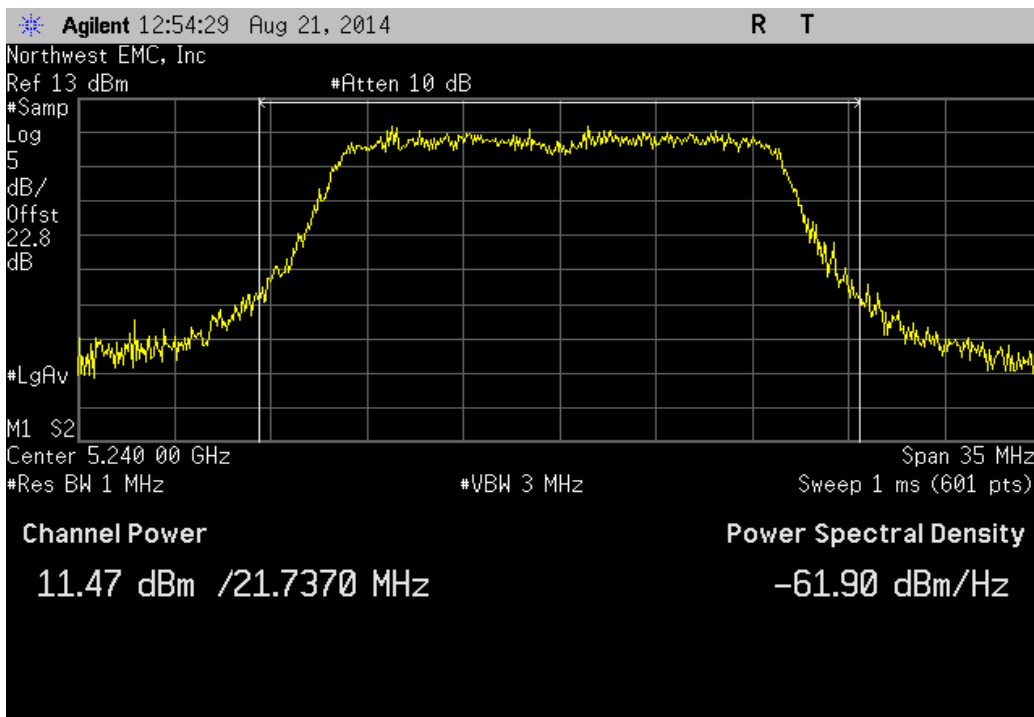
| Port 2, 802.11(a) 6 Mbps, Ch 140, High Channel 5700 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 7.198 dBm | 24 dBm | Pass |



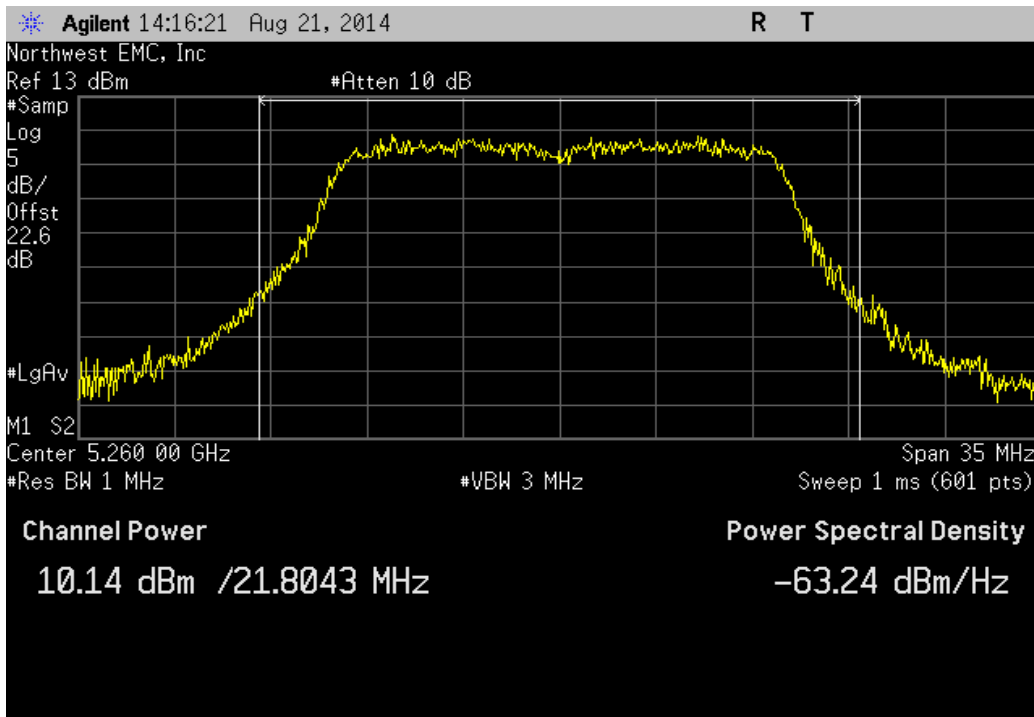
| Port 2, 802.11(a) 36 Mbps, Ch 36, Low Channel 5180 MHz | | | |
|--|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 12.098 dBm | 17 dBm | Pass |



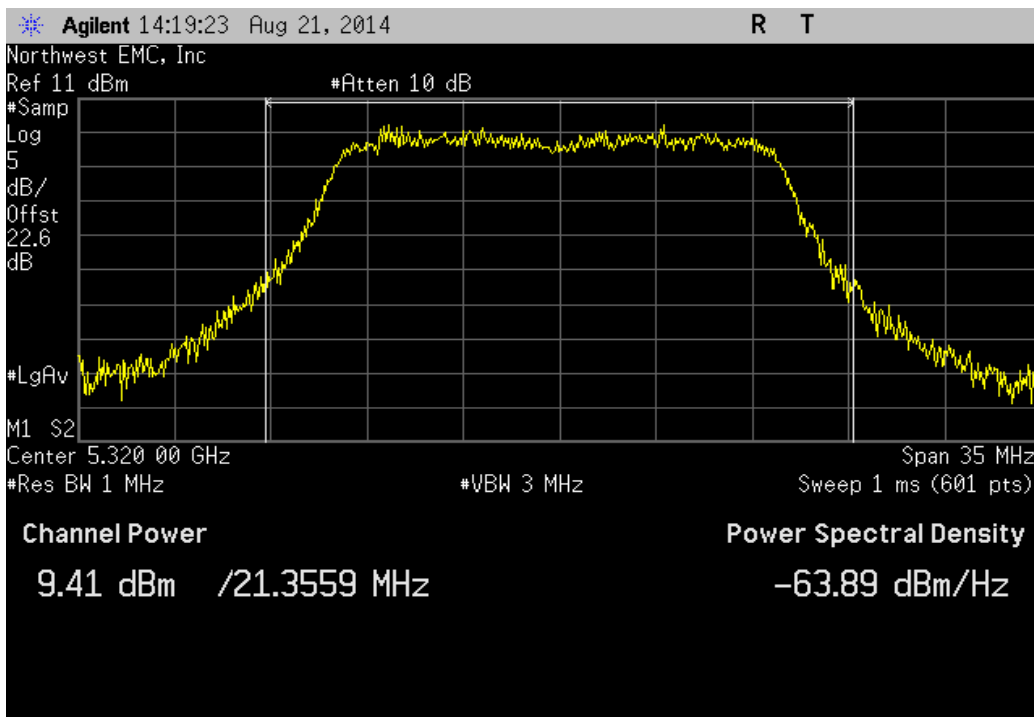
| Port 2, 802.11(a) 36 Mbps, Ch 48, High Channel 5240 MHz | | | |
|---|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 11.471 dBm | 17 dBm | Pass |



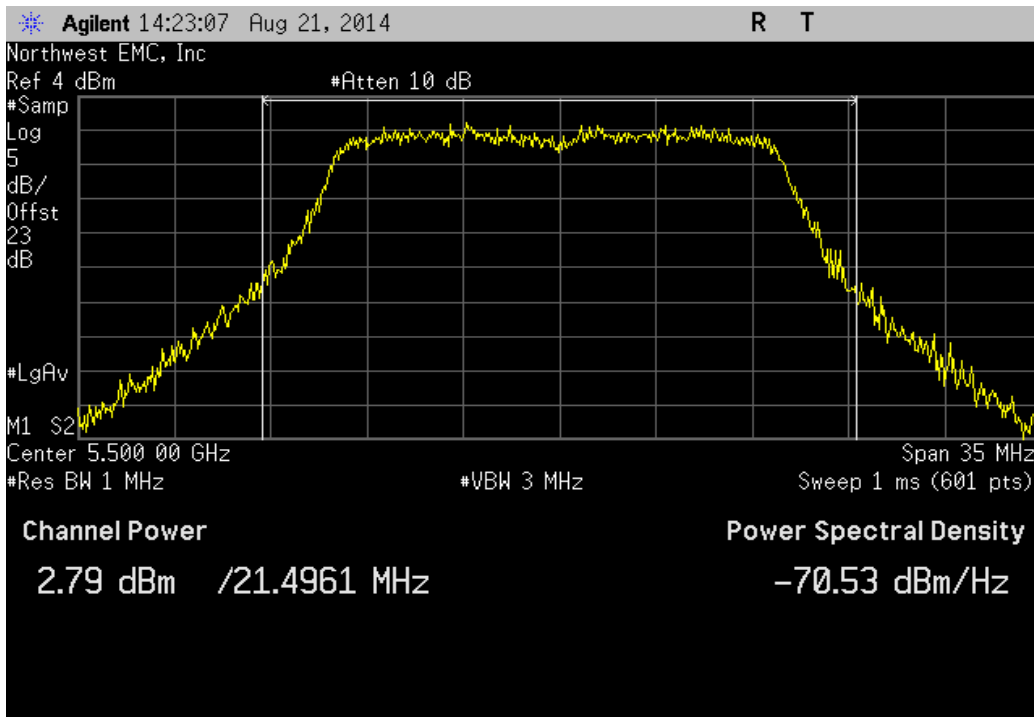
| Port 2, 802.11(a) 36 Mbps, Ch 52, Low Channel 5260 MHz | | | |
|--|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 10.141 dBm | 24 dBm | Pass |



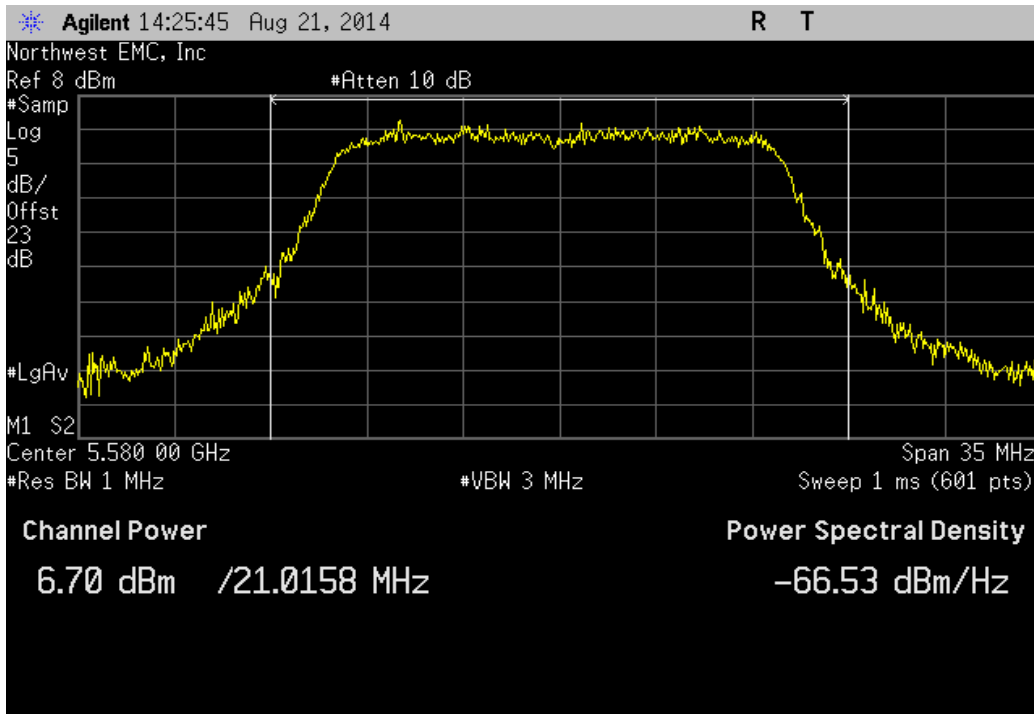
| Port 2, 802.11(a) 36 Mbps, Ch 64, High Channel 5320 MHz | | | |
|---|----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 9.41 dBm | 24 dBm | Pass |



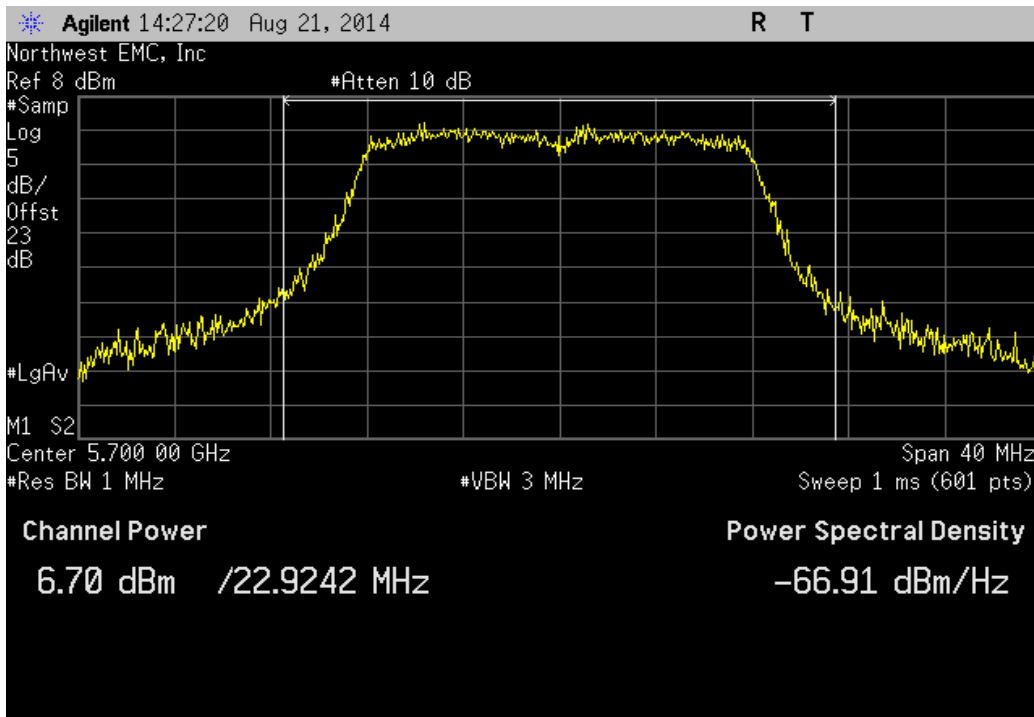
| Port 2, 802.11(a) 36 Mbps, Ch 100, Low Channel 5500 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 2.789 dBm | 24 dBm | Pass |



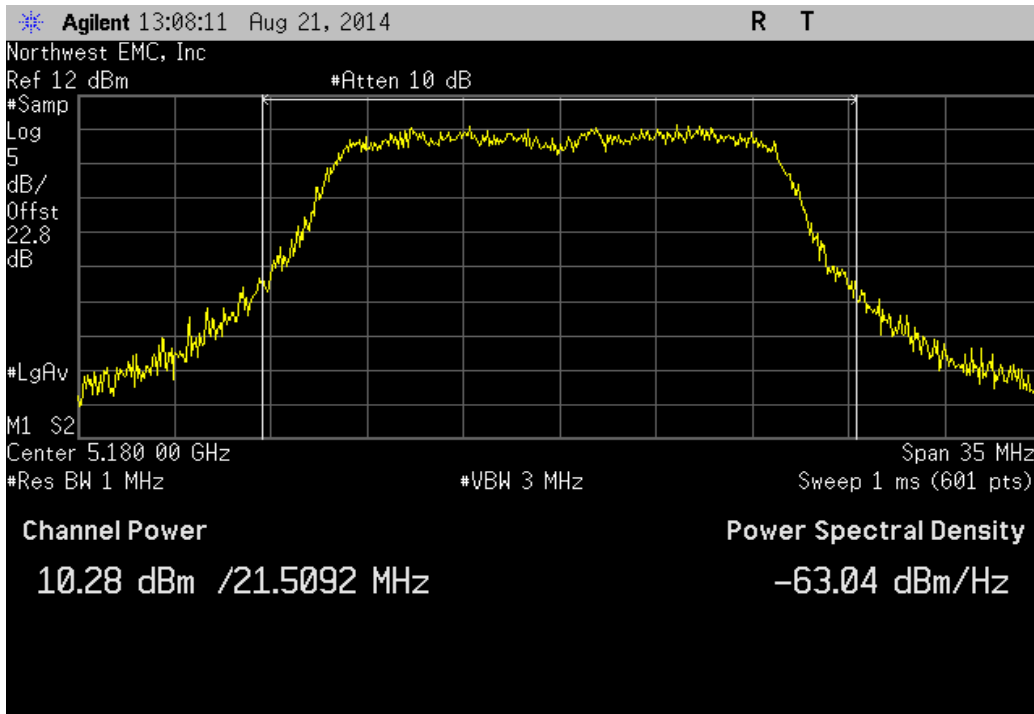
| Port 2, 802.11(a) 36 Mbps, Ch 116, Mid Channel 5580 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 6.695 dBm | 24 dBm | Pass |



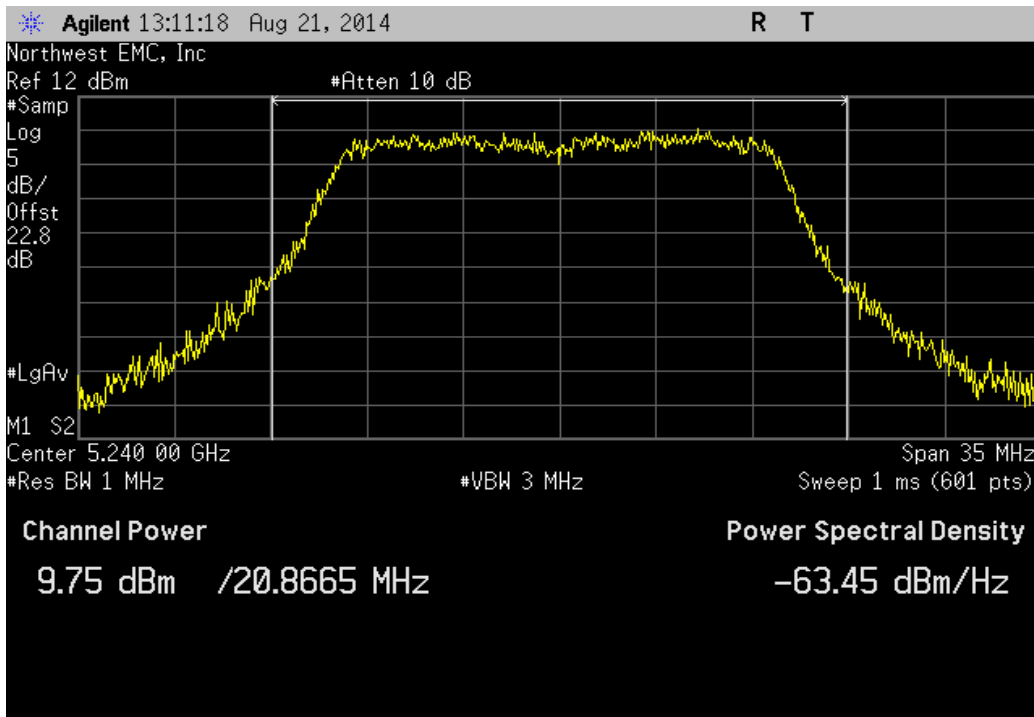
| Port 2, 802.11(a) 36 Mbps, Ch 140, High Channel 5700 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 6.698 dBm | 24 dBm | Pass |



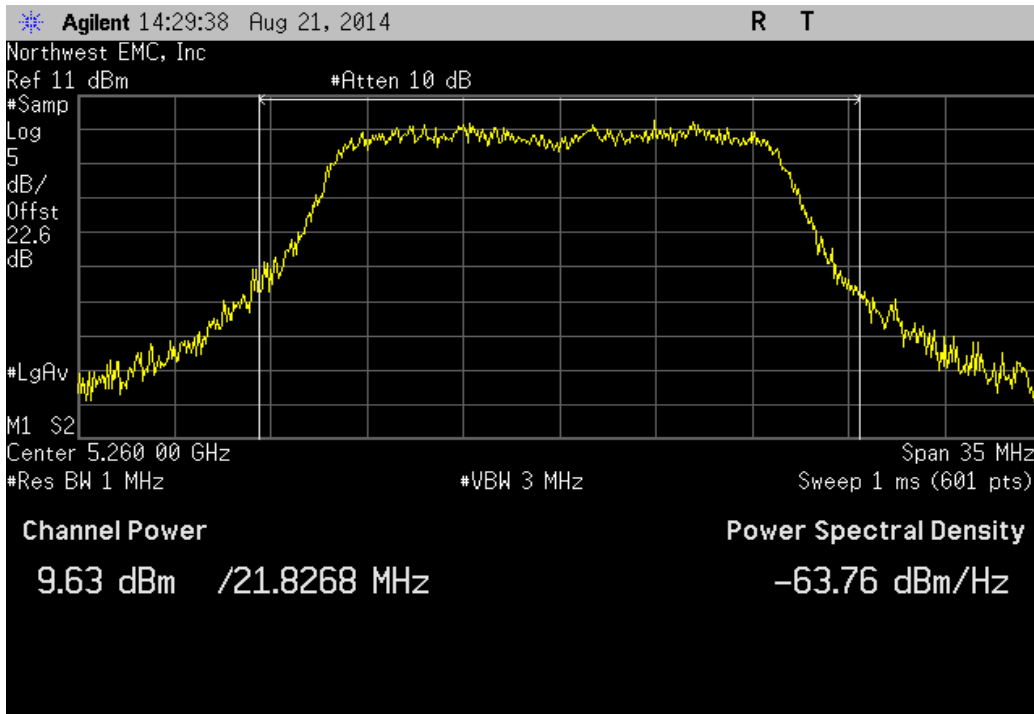
| Port 2, 802.11(a) 54 Mbps, Ch 36, Low Channel 5180 MHz | | | |
|--|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 10.285 dBm | 17 dBm | Pass |



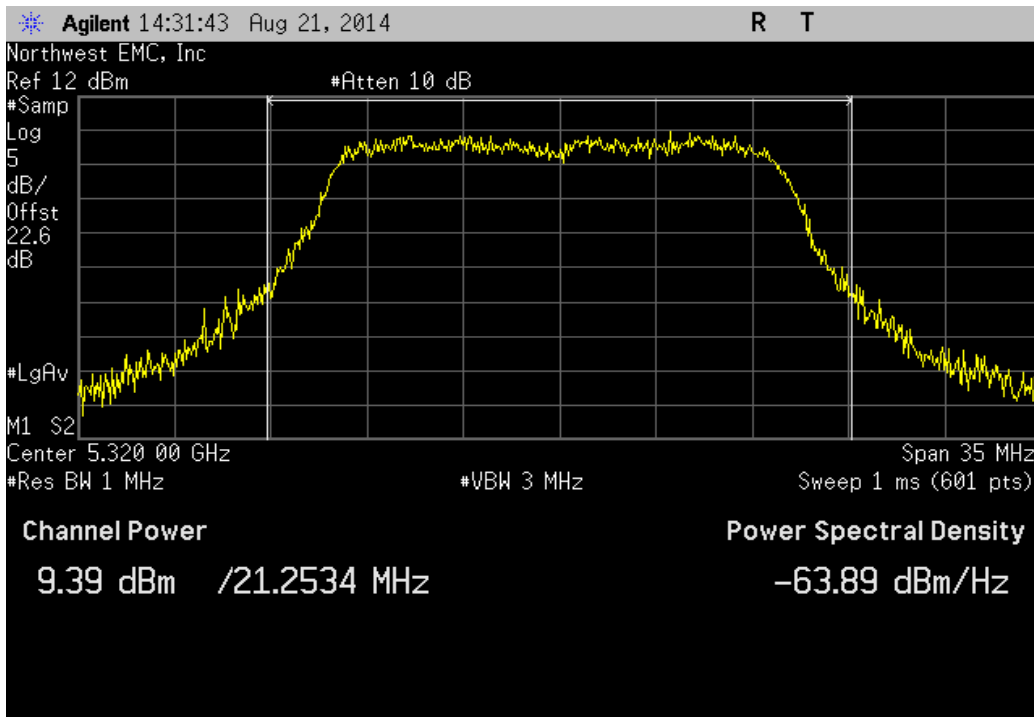
| Port 2, 802.11(a) 54 Mbps, Ch 48, High Channel 5240 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 9.749 dBm | 17 dBm | Pass |



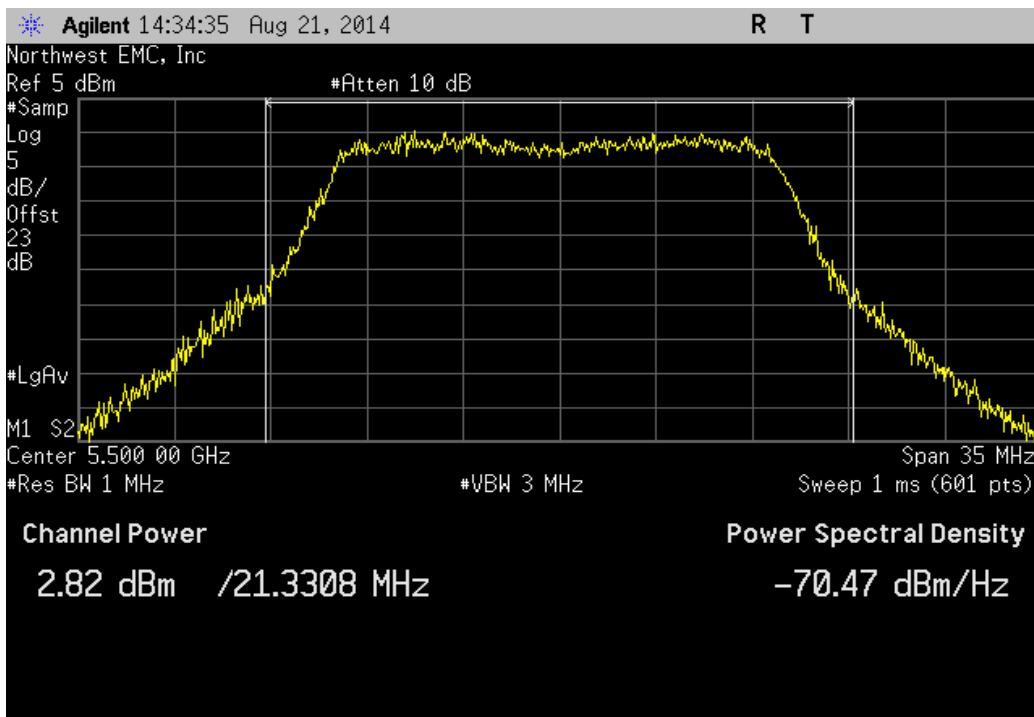
| Port 2, 802.11(a) 54 Mbps, Ch 52, Low Channel 5260 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 9.635 dBm | 24 dBm | Pass |



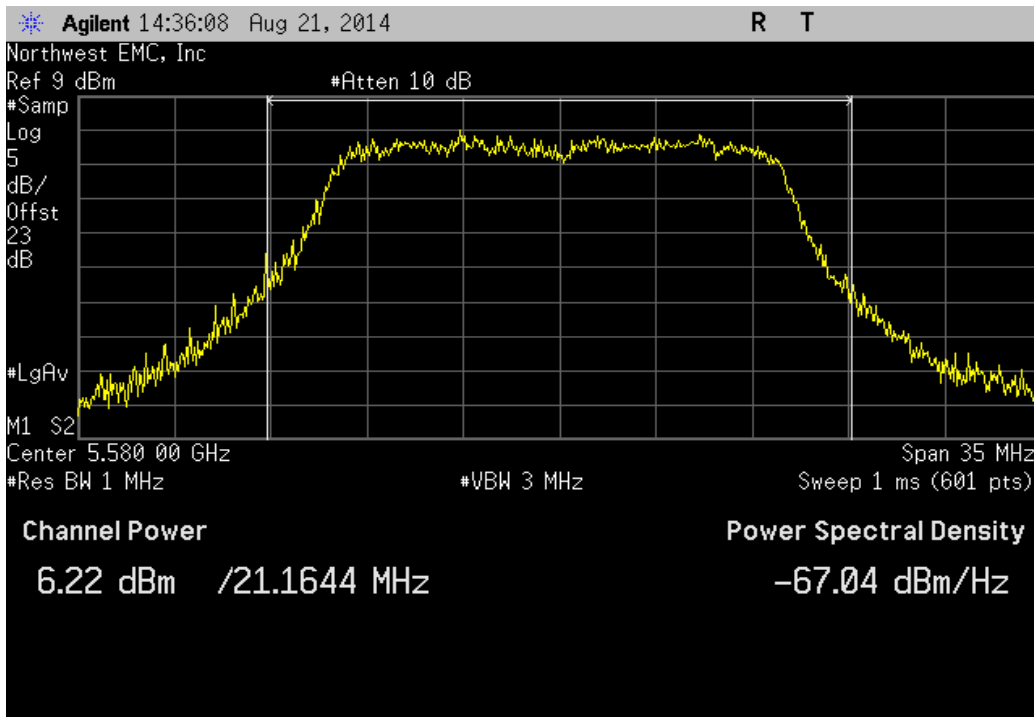
| Port 2, 802.11(a) 54 Mbps, Ch 64, High Channel 5320 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 9.386 dBm | 24 dBm | Pass |



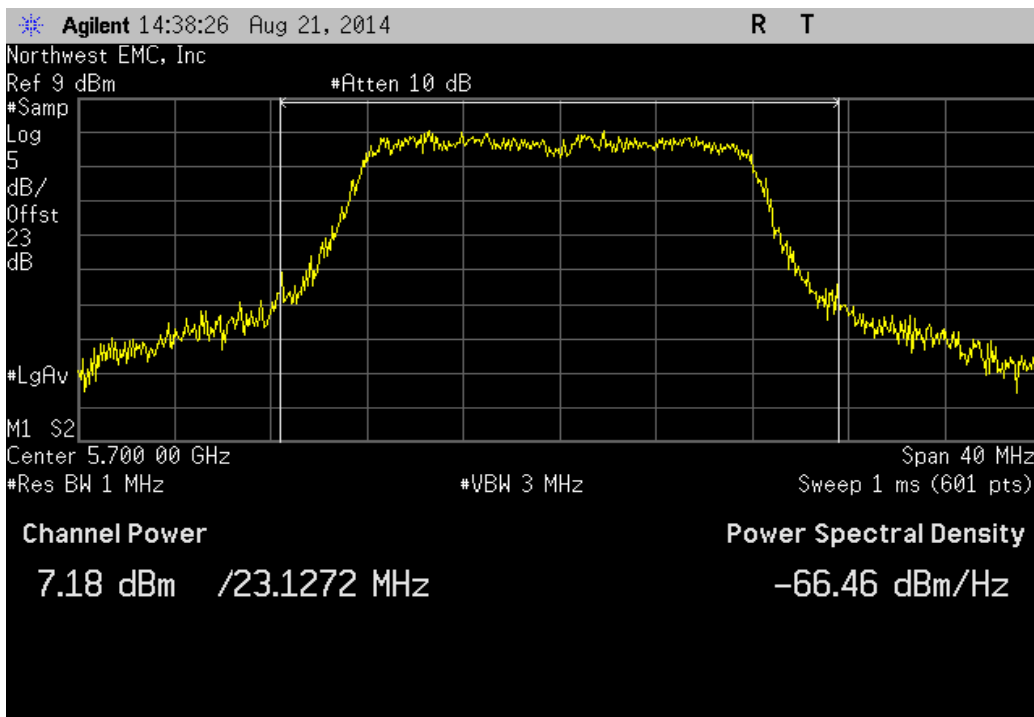
| Port 2, 802.11(a) 54 Mbps, Ch 100, Low Channel 5500 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 2.817 dBm | 24 dBm | Pass |



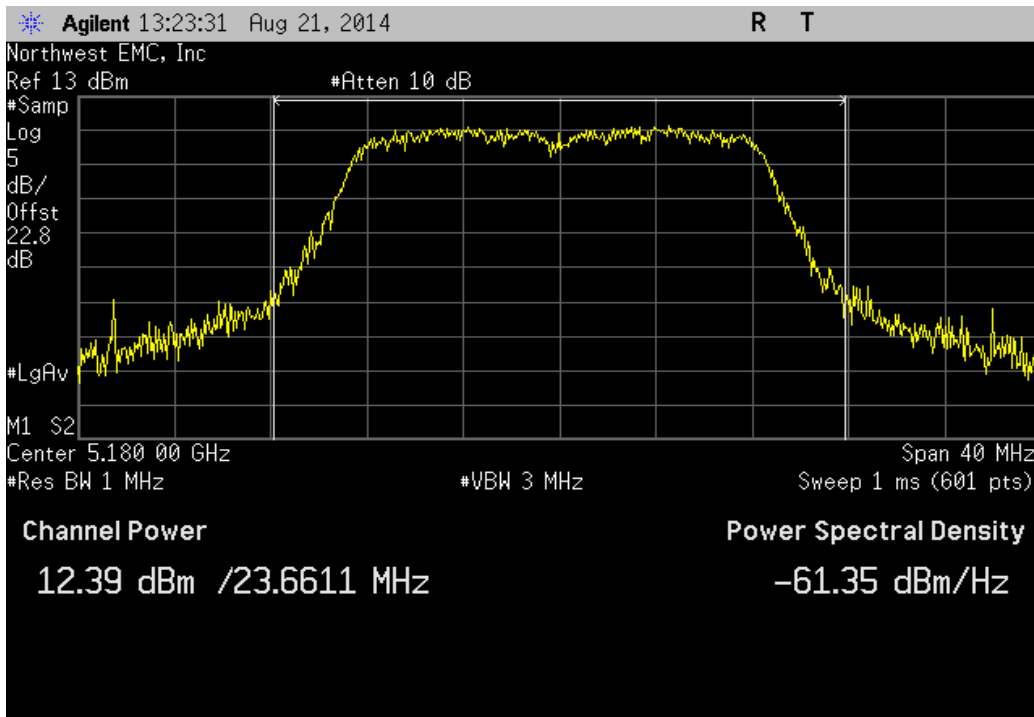
| Port 2, 802.11(a) 54 Mbps, Ch 116, Mid Channel 5580 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 6.218 dBm | 24 dBm | Pass |



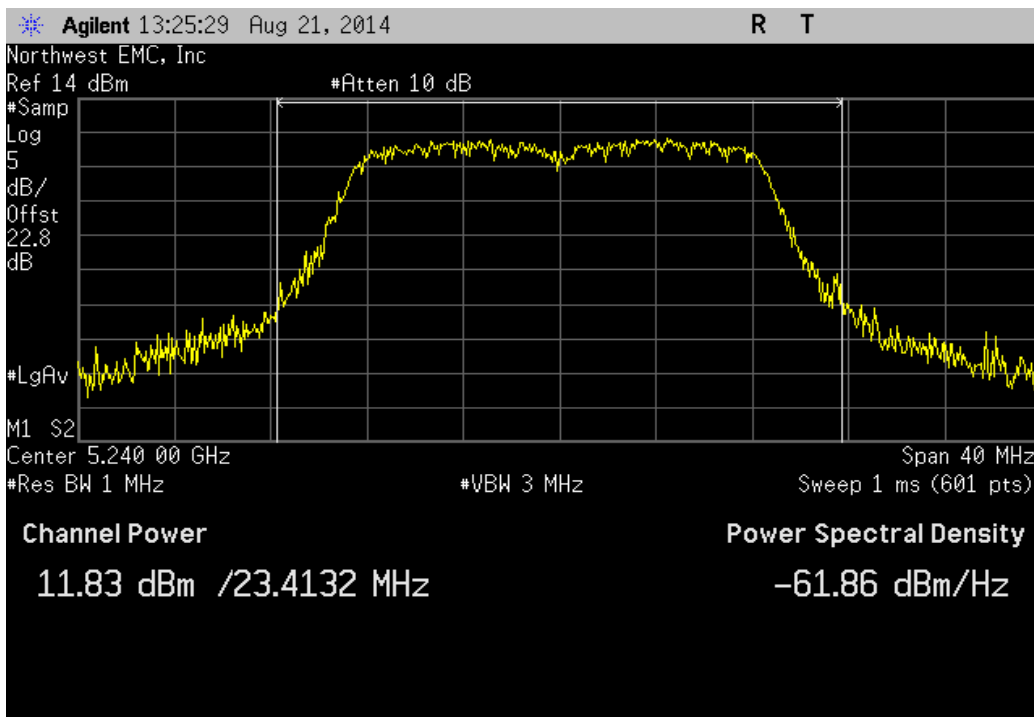
| Port 2, 802.11(a) 54 Mbps, Ch 140, High Channel 5700 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 7.176 dBm | 24 dBm | Pass |



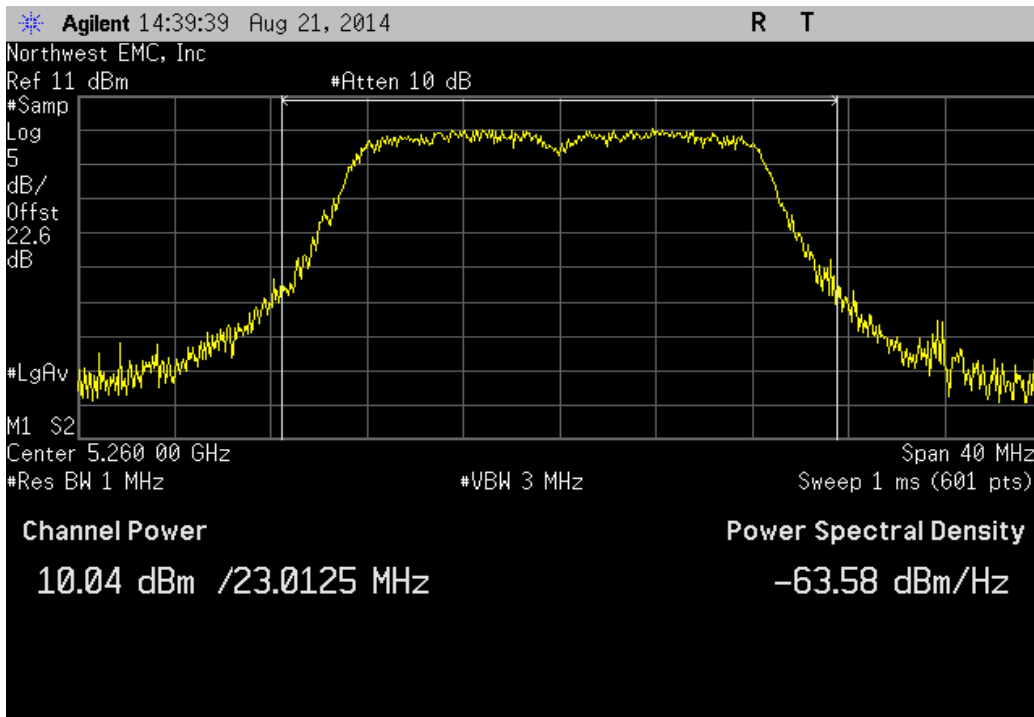
| Port 2, 802.11(n) MCS0, Ch 36, Low Channel 5180 MHz | | | |
|---|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 12.393 dBm | 17 dBm | Pass |



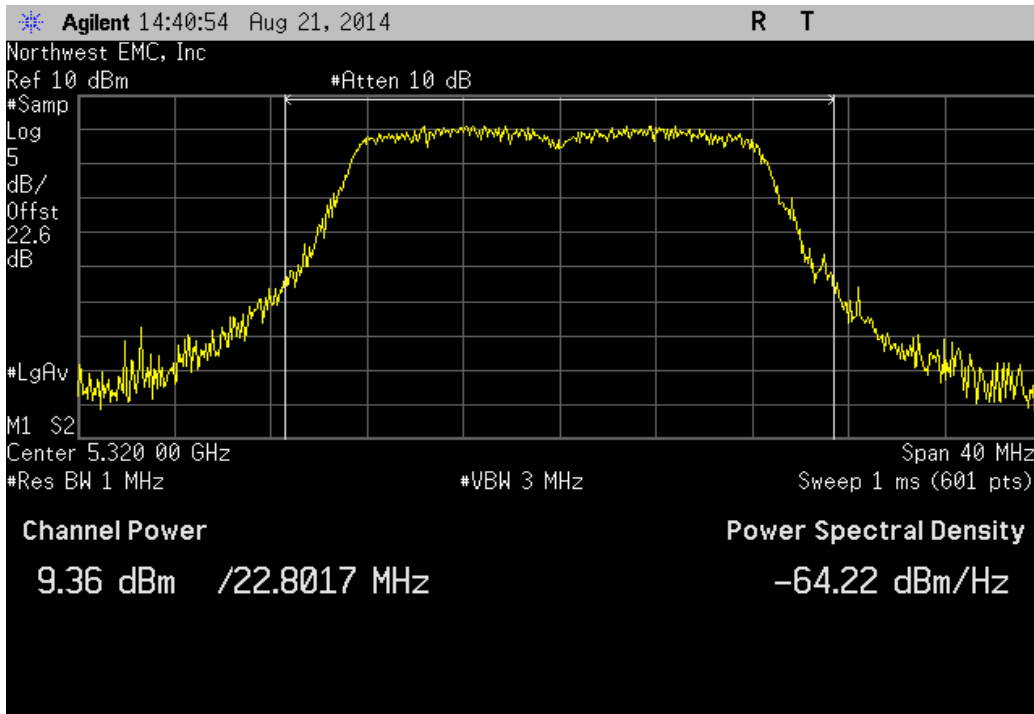
| Port 2, 802.11(n) MCS0, Ch 48, High Channel 5240 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 11.83 dBm | 17 dBm | Pass |



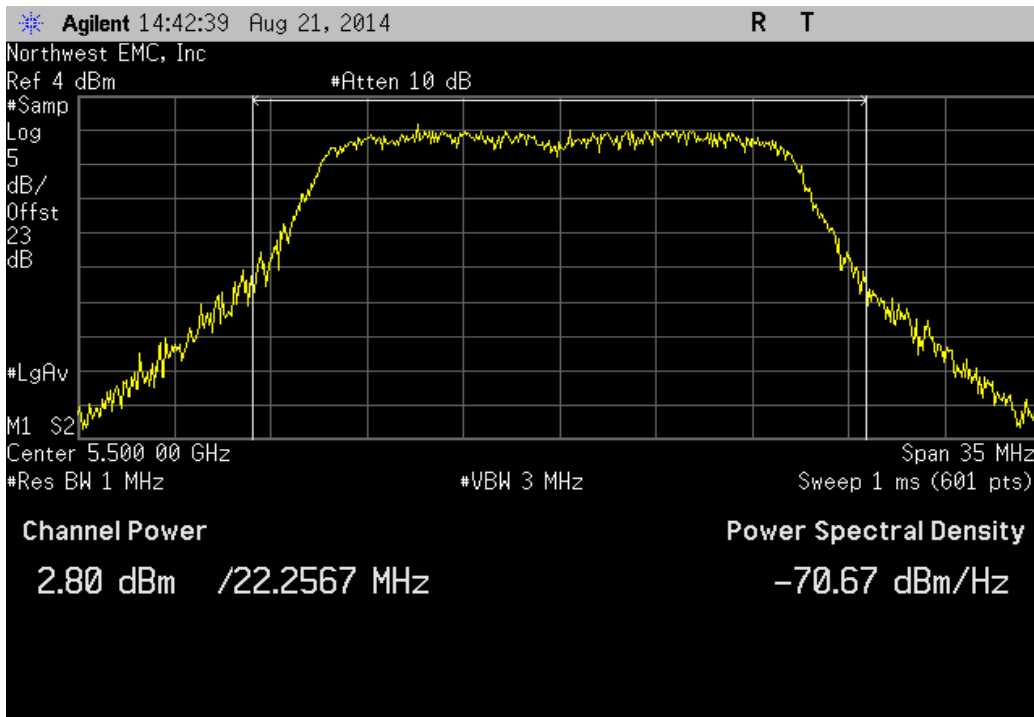
| Port 2, 802.11(n) MCS0, Ch 52, Low Channel 5260 MHz | | | |
|---|------------|-----------|--------|
| | Value | Limit (<) | Result |
| | 10.044 dBm | 24 dBm | Pass |



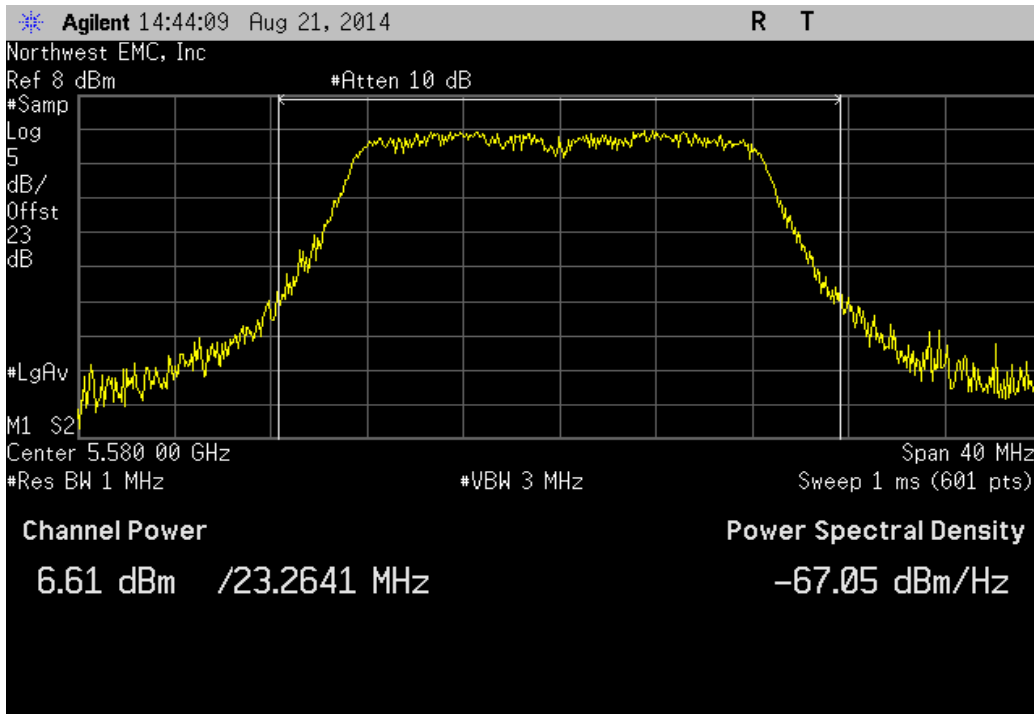
| Port 2, 802.11(n) MCS0, Ch 64, High Channel 5320 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 9.359 dBm | 24 dBm | Pass |



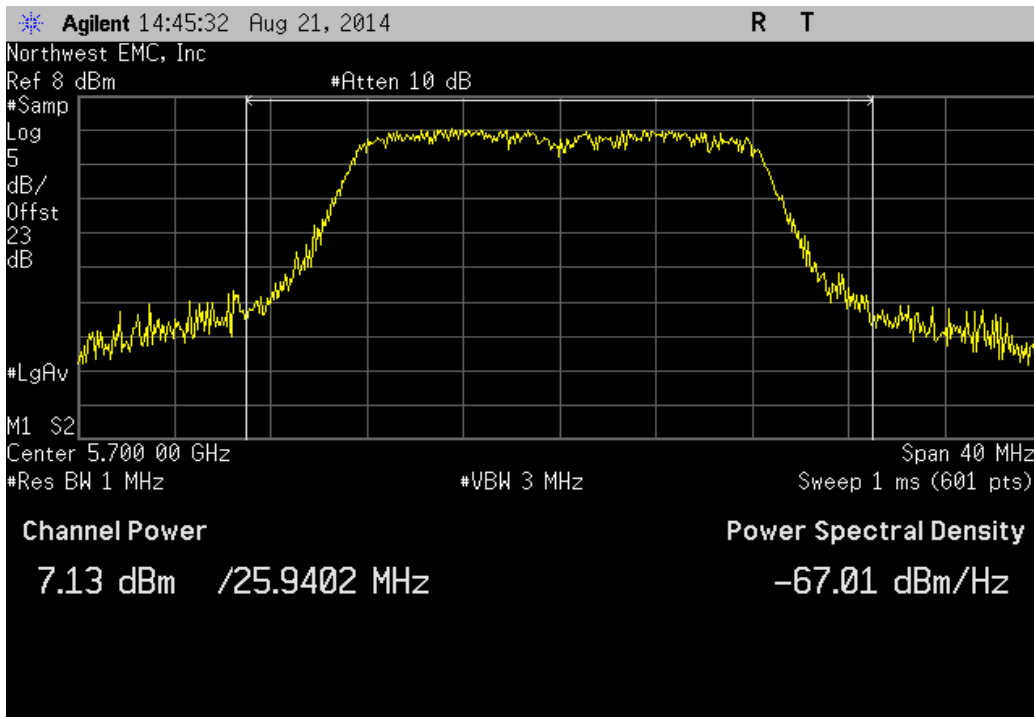
| Port 2, 802.11(n) MCS0, Ch 100, Low Channel 5500 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 2.803 dBm | 24 dBm | Pass |



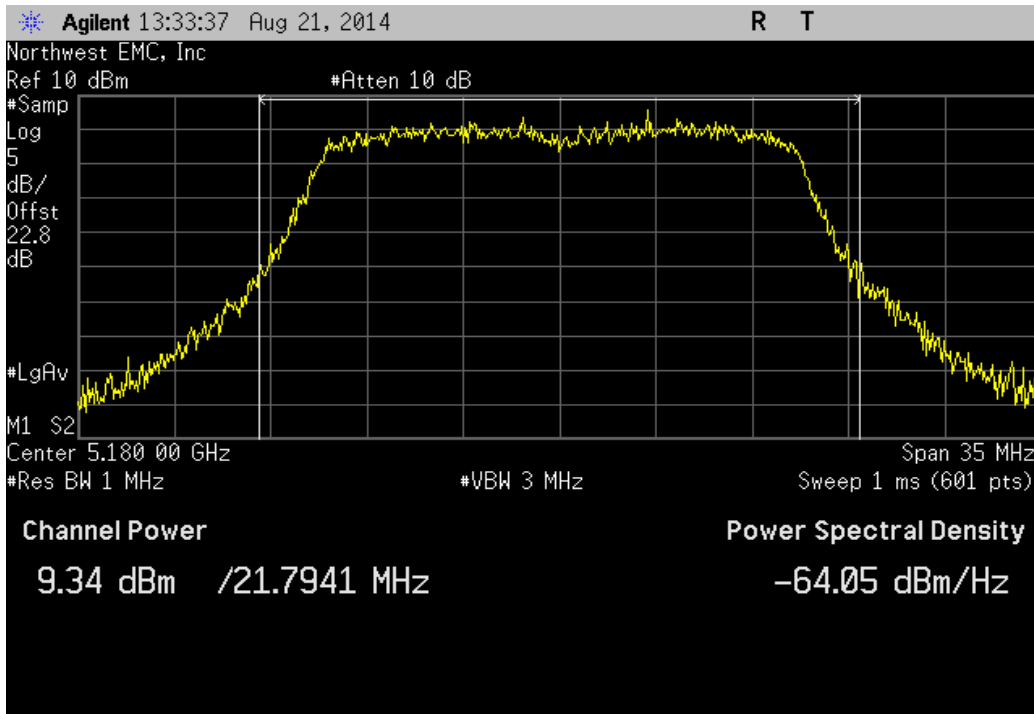
| Port 2, 802.11(n) MCS0, Ch 116, Mid Channel 5580 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 6.612 dBm | 24 dBm | Pass |



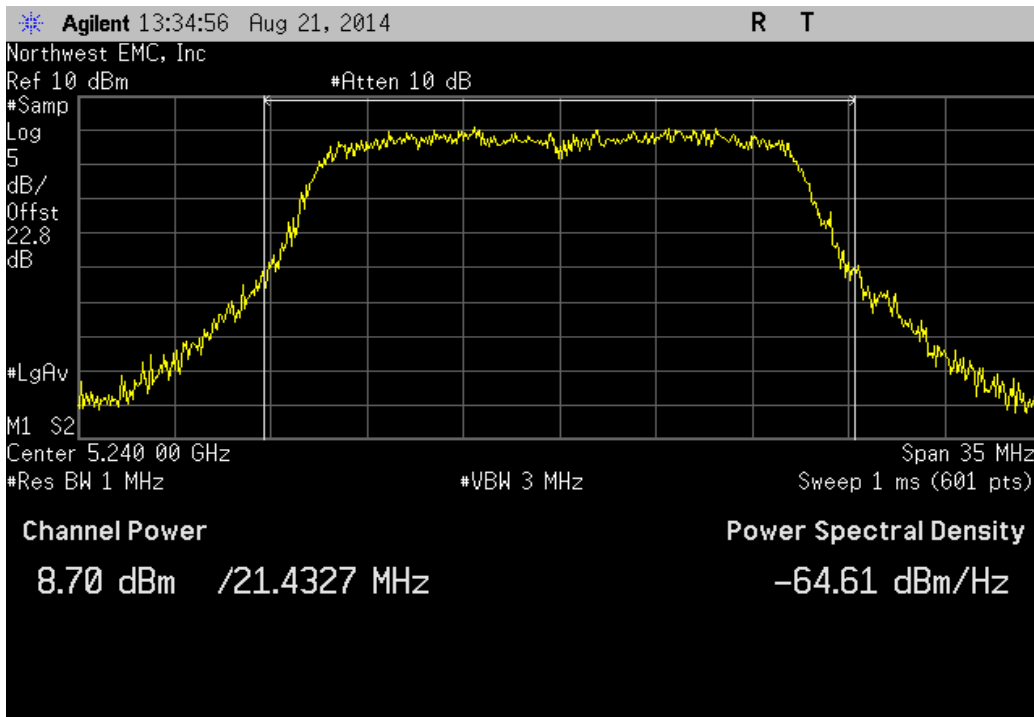
| Port 2, 802.11(n) MCS0, Ch 140, High Channel 5700 MHz | | | |
|---|----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 7.13 dBm | 24 dBm | Pass |



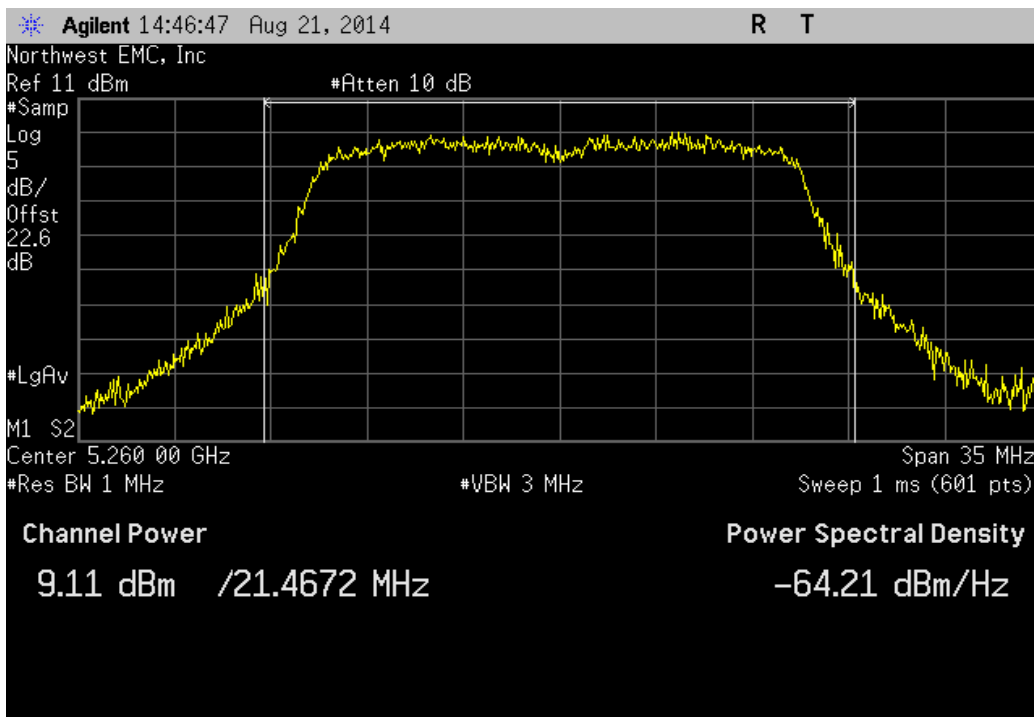
| Port 2, 802.11(n) MCS7, Ch 36, Low Channel 5180 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 9.336 dBm | 17 dBm | Pass |



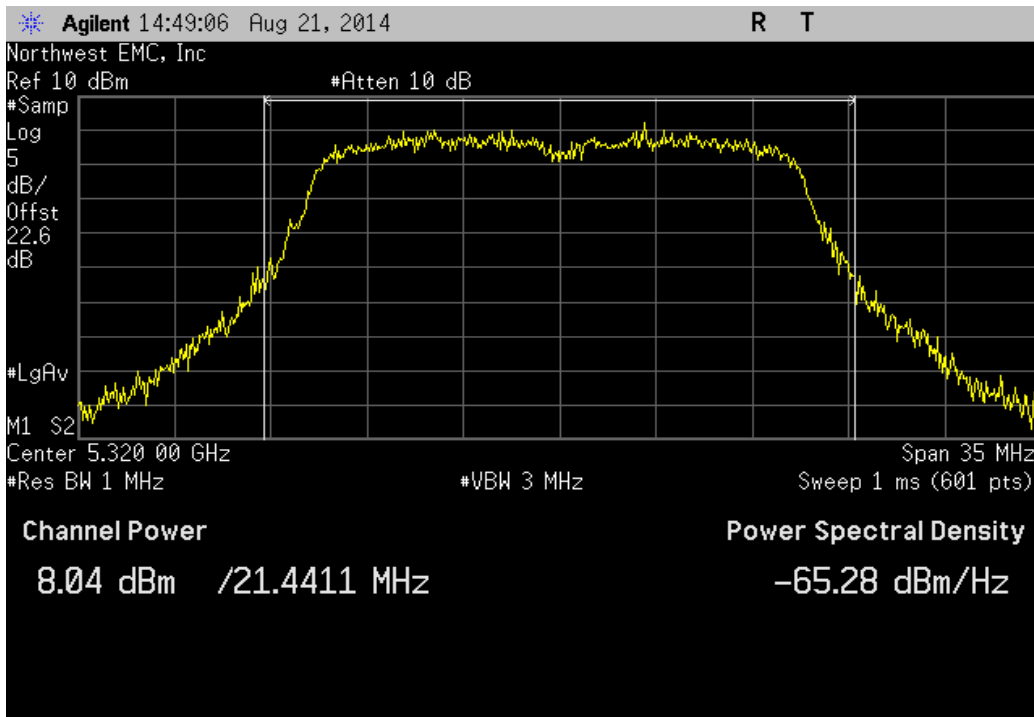
| Port 2, 802.11(n) MCS7, Ch 48, High Channel 5240 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 8.703 dBm | 17 dBm | Pass |



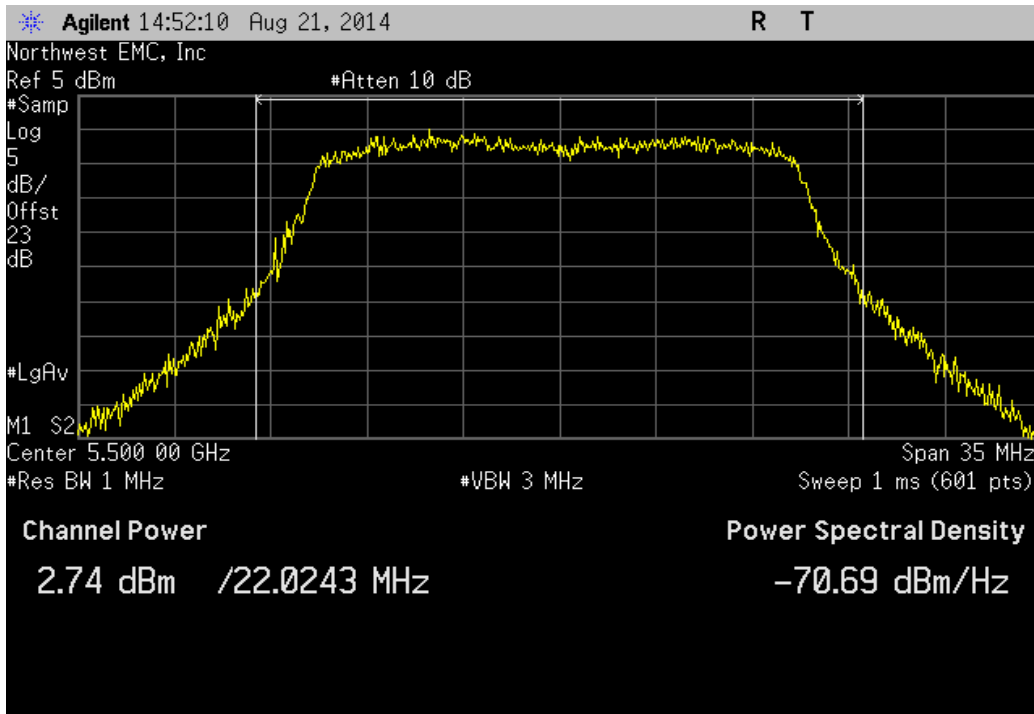
| Port 2, 802.11(n) MCS7, Ch 52, Low Channel 5260 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 9.108 dBm | 24 dBm | Pass |



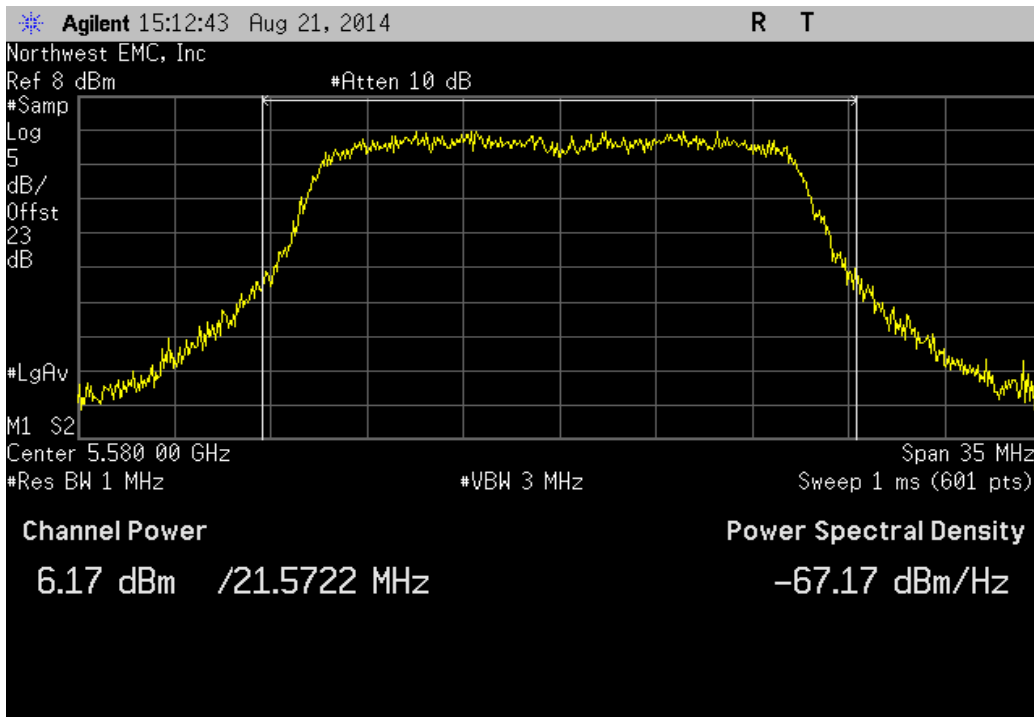
| Port 2, 802.11(n) MCS7, Ch 64, High Channel 5320 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 8.036 dBm | 24 dBm | Pass |



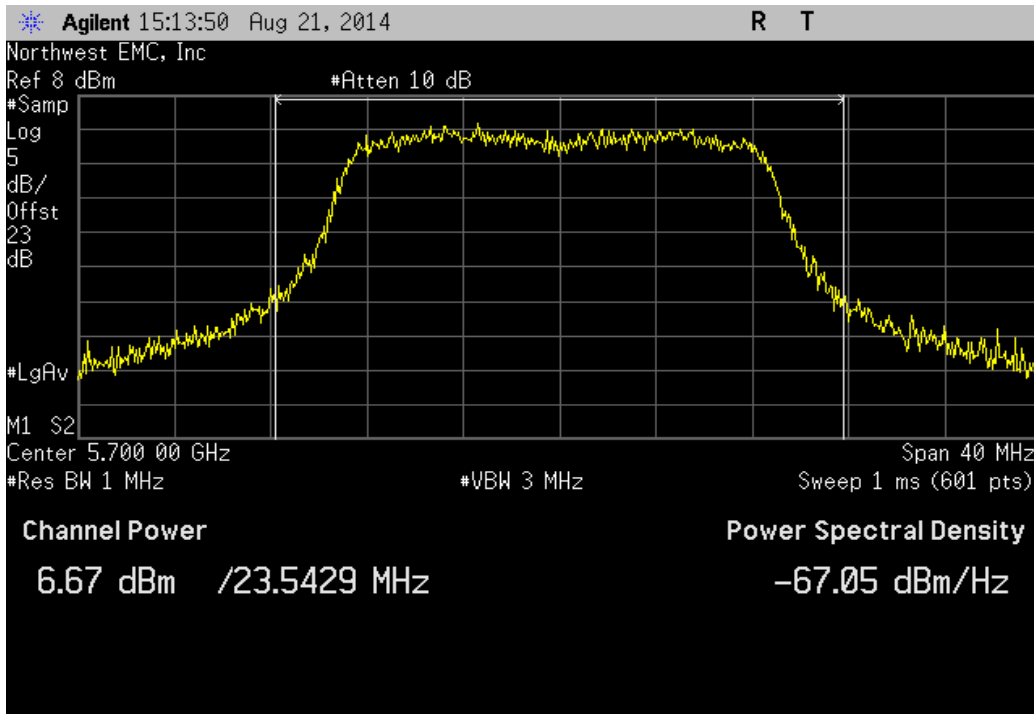
| Port 2, 802.11(n) MCS7, Ch 100, Low Channel 5500 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (<) | Result |
| | 2.737 dBm | 24 dBm | Pass |



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



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



PEAK EXCURSION OF THE MODULATION ENVELOPE

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

TEST EQUIPMENT

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

TEST DESCRIPTION

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

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

The spectrum analyzer settings were as follows:

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

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

- 1st Trace: RBW = 1 MHz, VBW >= 3 MHz with peak detector and trace max-hold..
- 2nd Trace: The same procedure and settings as was used for peak power spectral density



PEAK EXCURSION OF THE MODULATION ENVELOPE

XMit 2014.02.07
NweTx 2014.07.18.3

| | |
|-------------------------------------|--------------------------|
| EUT: ConnectCore6 (i.MX6) | Work Order: ETHE0008 |
| Serial Number: 00409D7B8CA2 | Date: 08/05/14 |
| Customer: Etherios Design Solutions | Temperature: 24.1°C |
| Attendees: None | Humidity: 52% |
| Project: None | Barometric Pres.: 1022.3 |
| Tested by: Trevor Buls | Power: 5.0VDC |
| | Job Site: MN08 |
| TEST SPECIFICATIONS | |
| FCC 15.407:2014 | Test Method |
| | ANSI C63.10:2009 |

COMMENTS

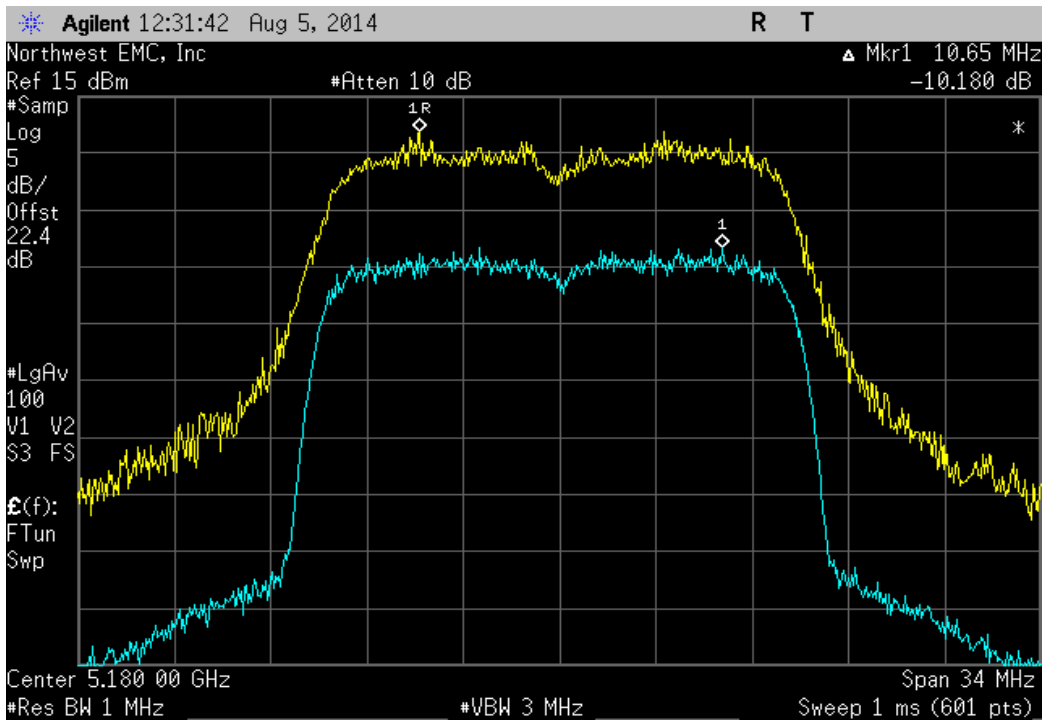
None

DEVIATIONS FROM TEST STANDARD

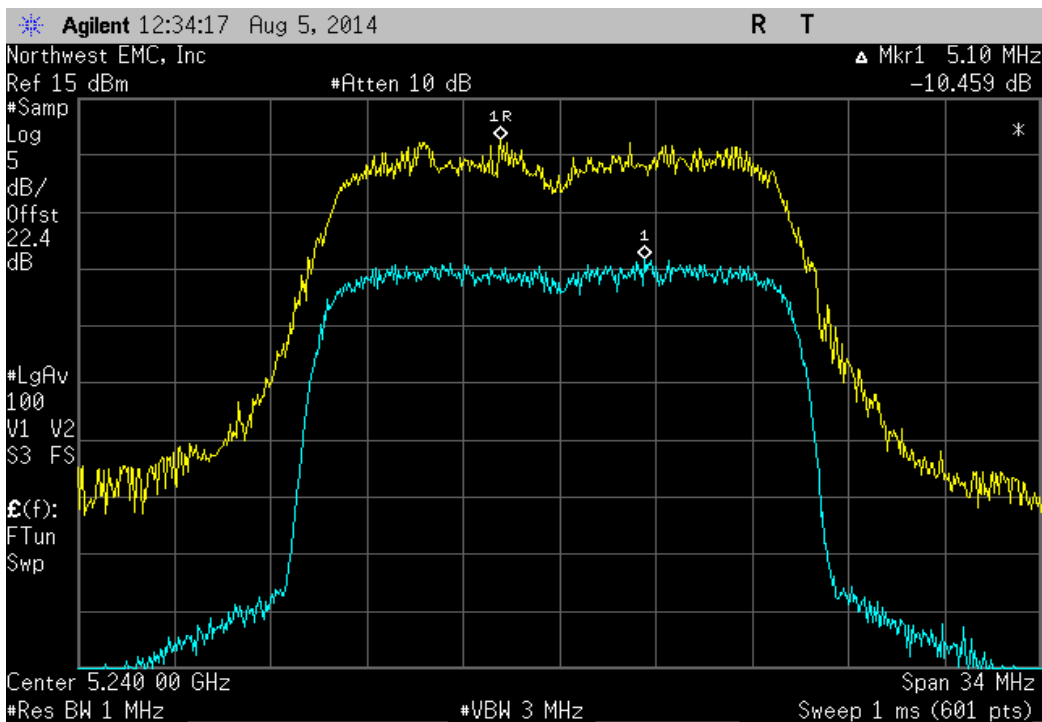
| | | | |
|-----------------|---|-----------|--------------------|
| Configuration # | 1 | Signature | <i>Trevor Buls</i> |
|-----------------|---|-----------|--------------------|

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

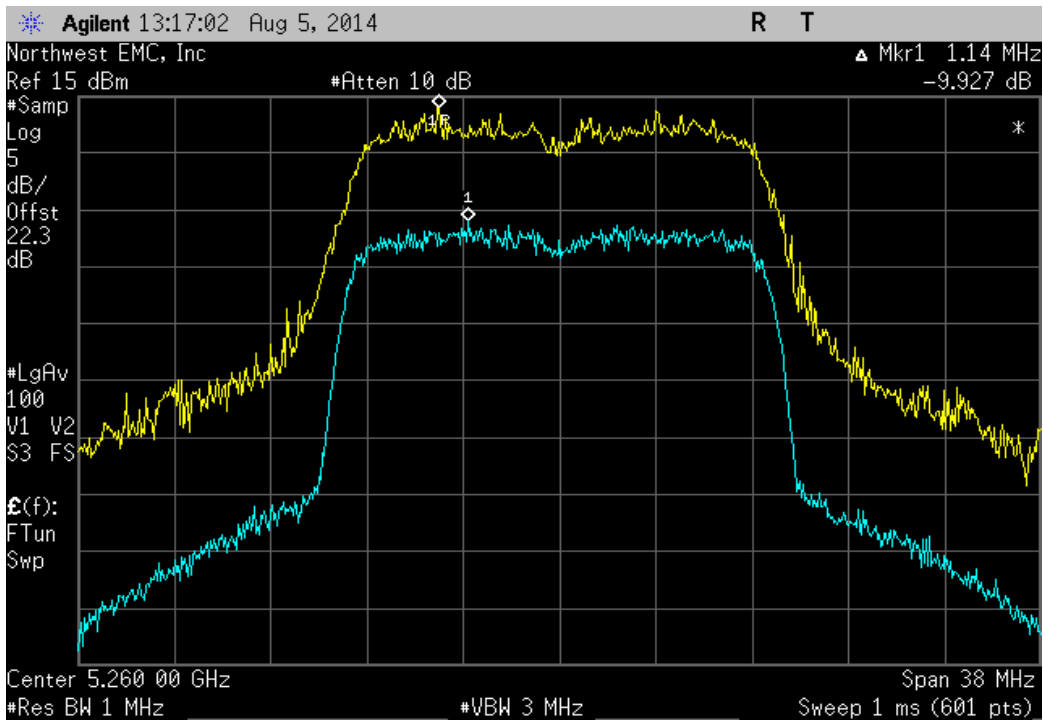
| 802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel | | | |
|---|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 10.18 | 13 | Pass |



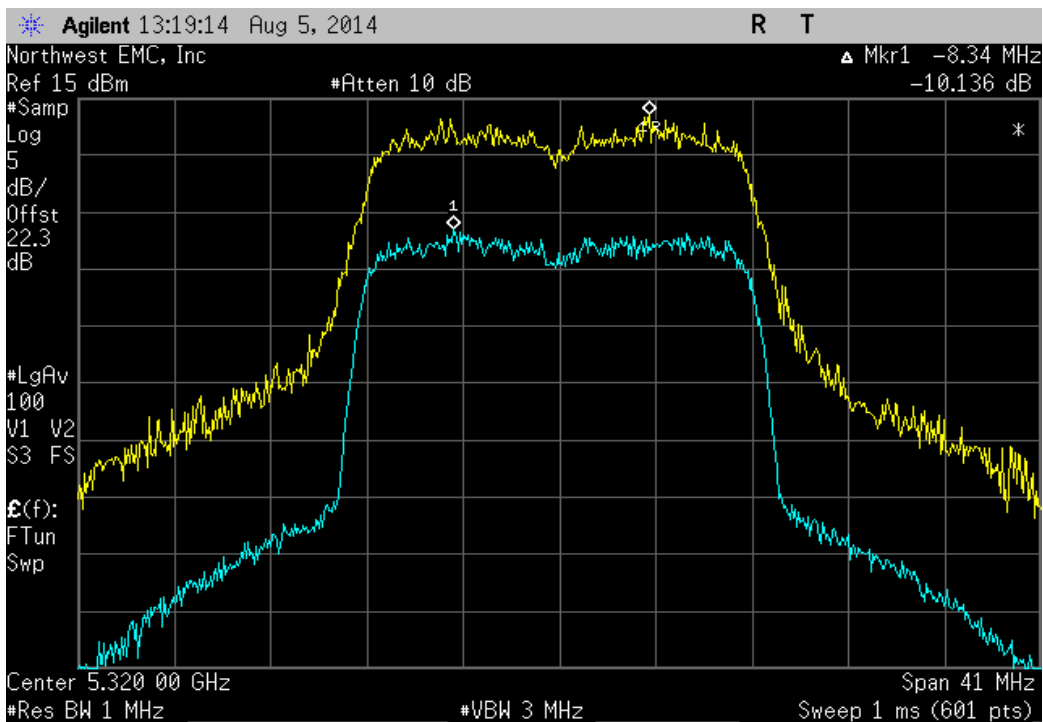
| 802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel | | | |
|--|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 10.459 | 13 | Pass |



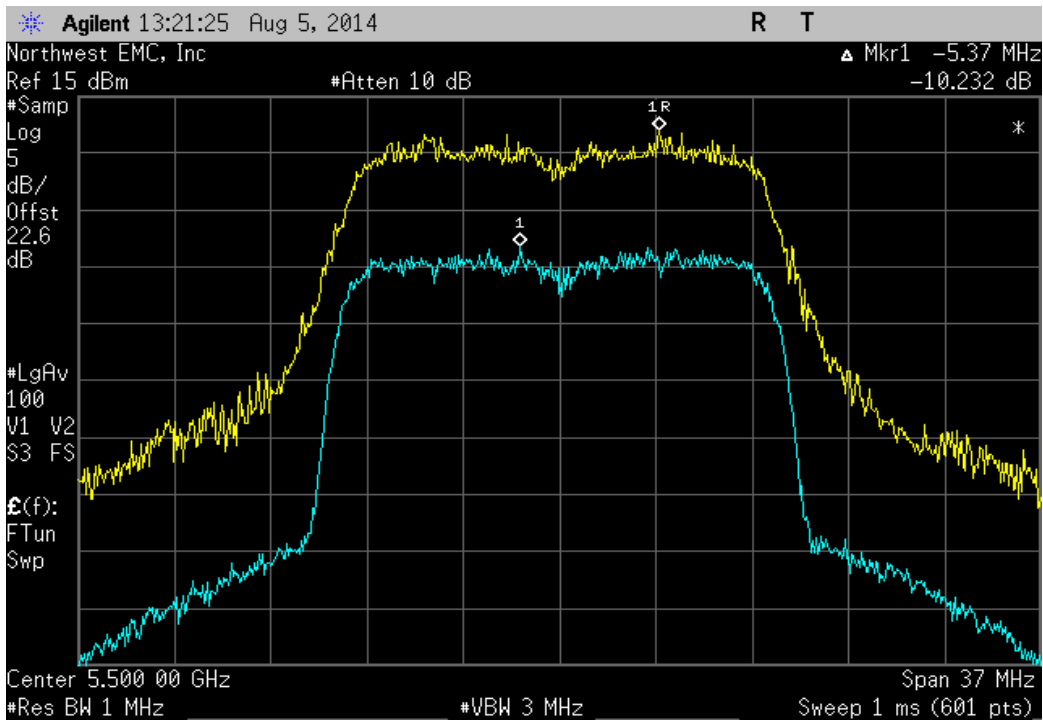
| 802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel | | | |
|---|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 9.927 | 13 | Pass |



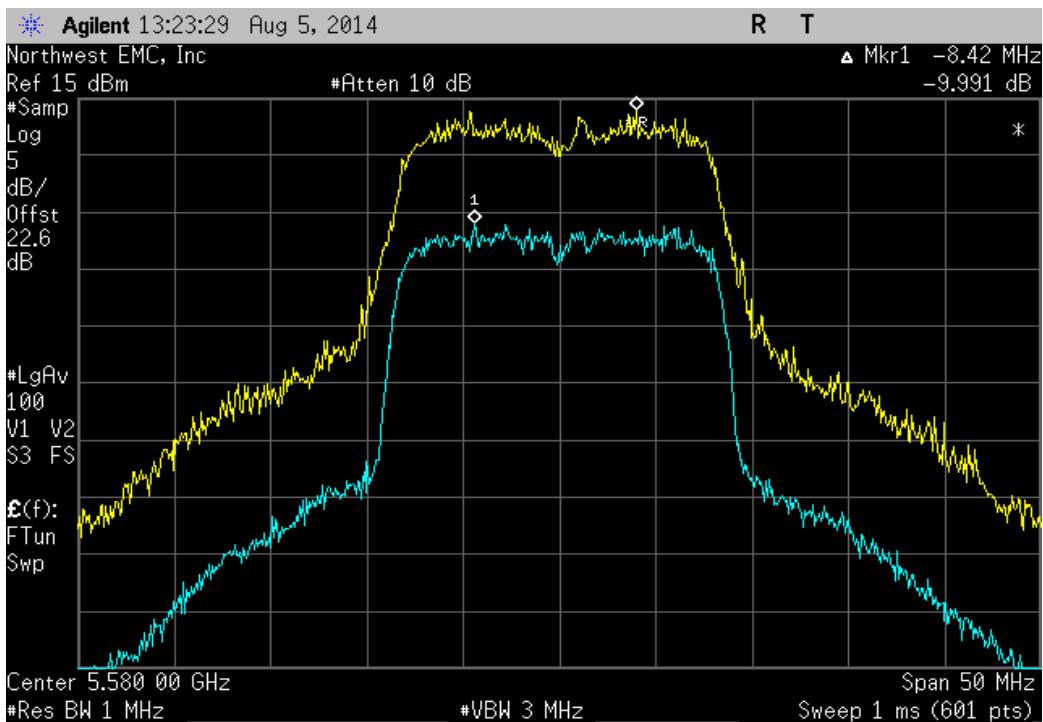
| 802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel | | | |
|--|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 10.136 | 13 | Pass |



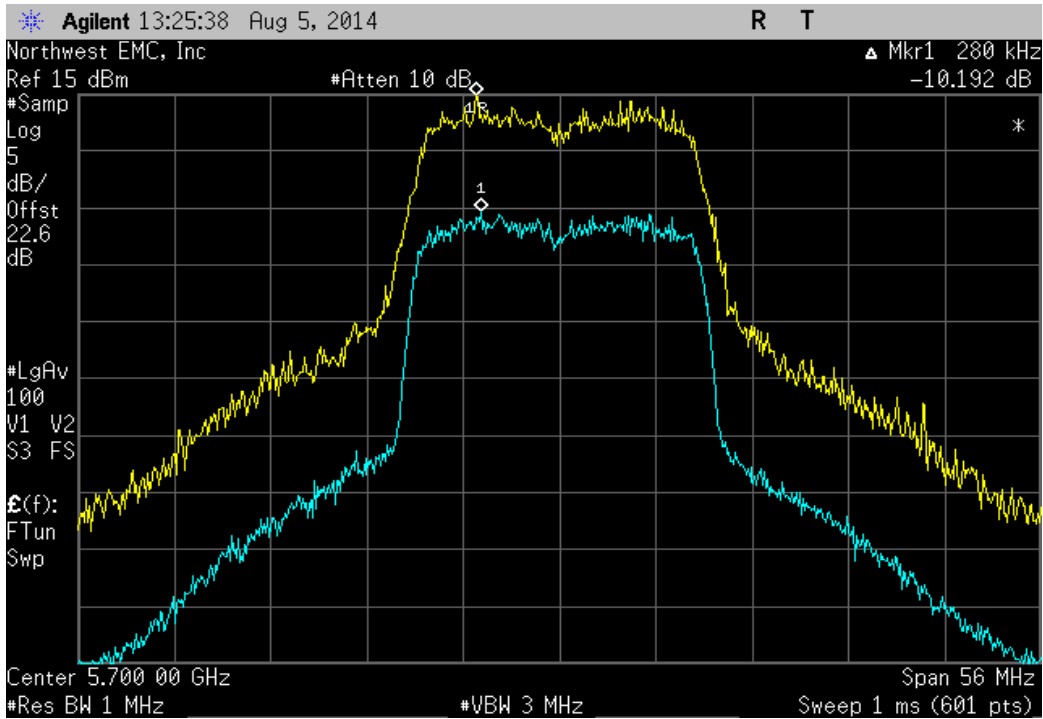
| 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel | | | |
|--|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 10.232 | 13 | Pass |



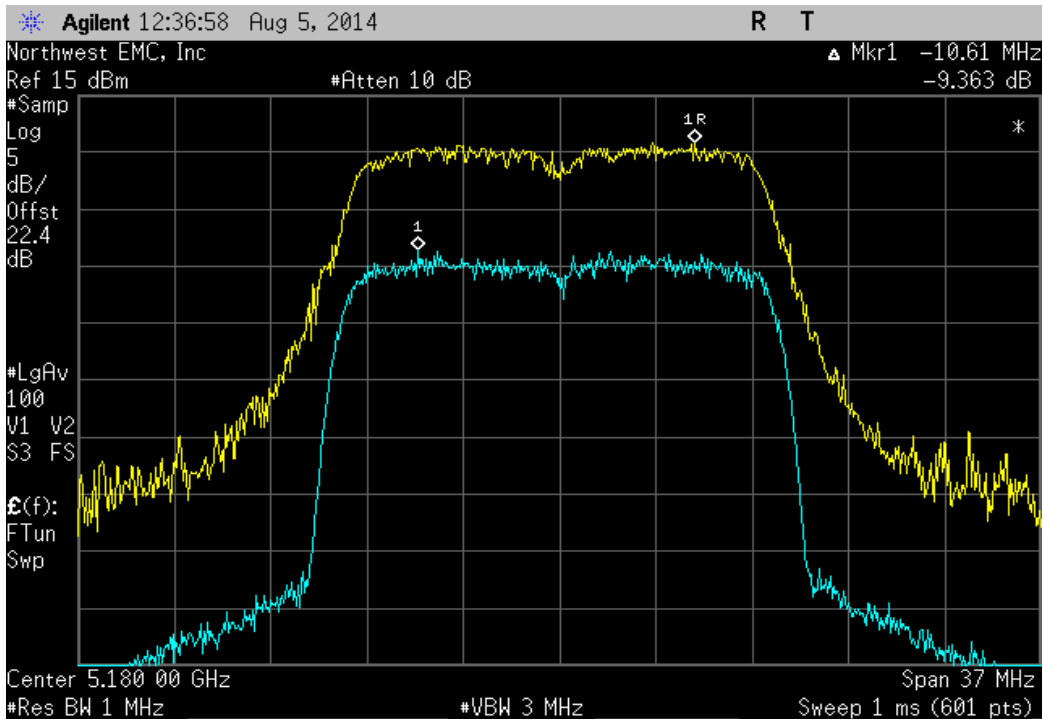
| 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel | | | |
|--|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 9.991 | 13 | Pass |



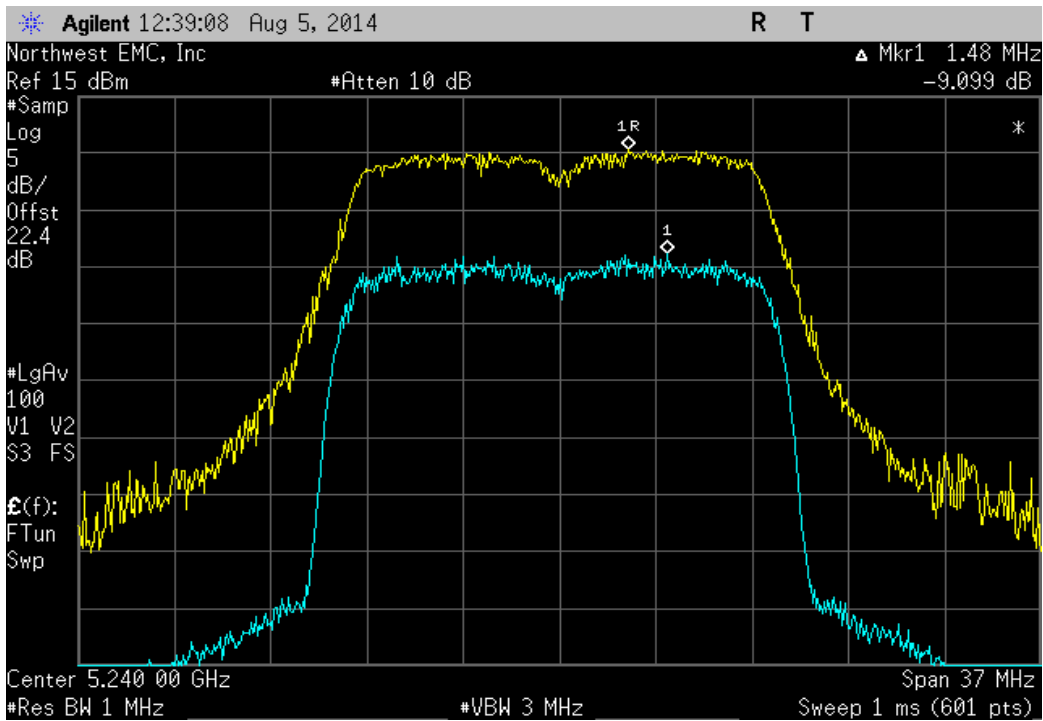
| 802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel | | | |
|---|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 10.192 | 13 | Pass |



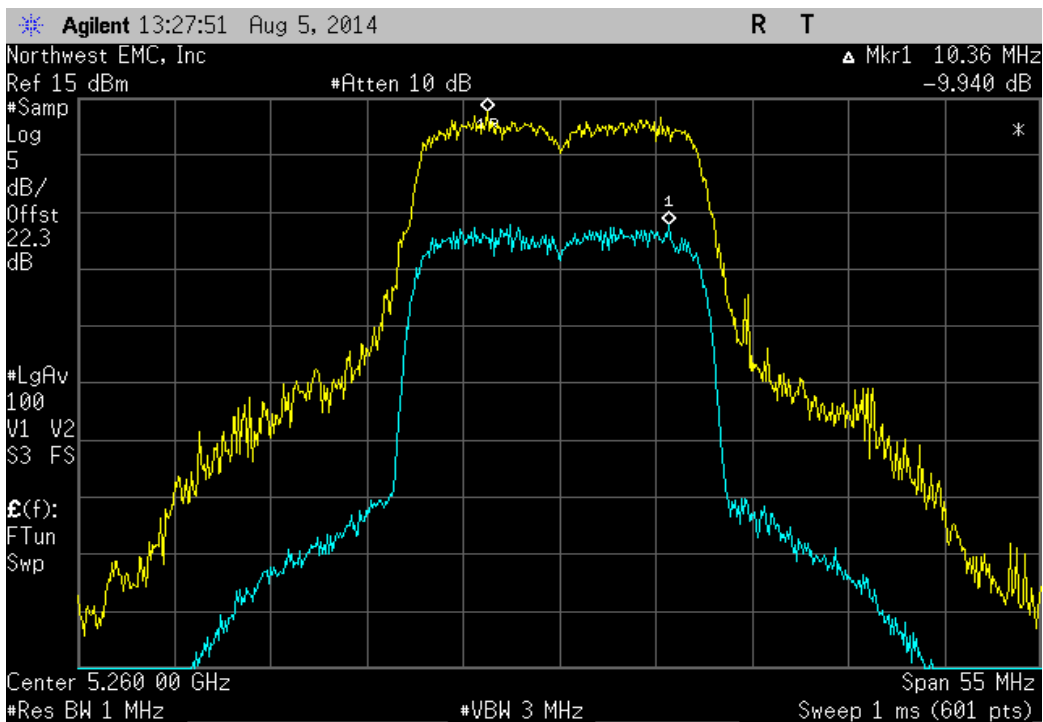
| 802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel | | | |
|--|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 9.363 | 13 | Pass |



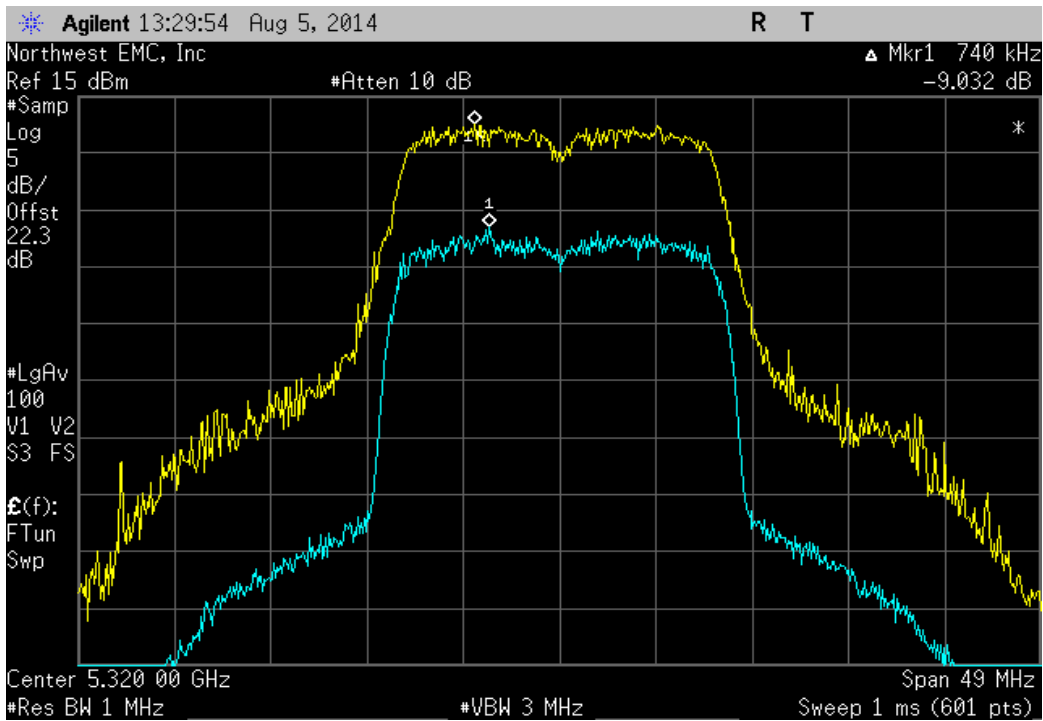
| 802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel | | | |
|---|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 9.099 | 13 | Pass |



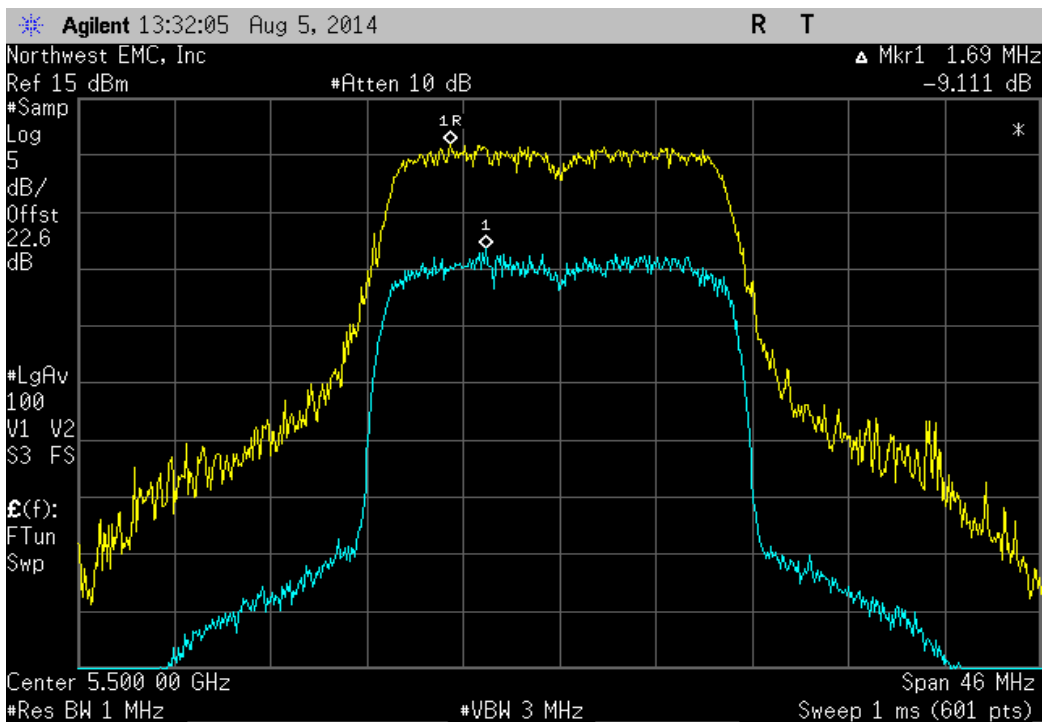
| 802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel | | | |
|--|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 9.94 | 13 | Pass |



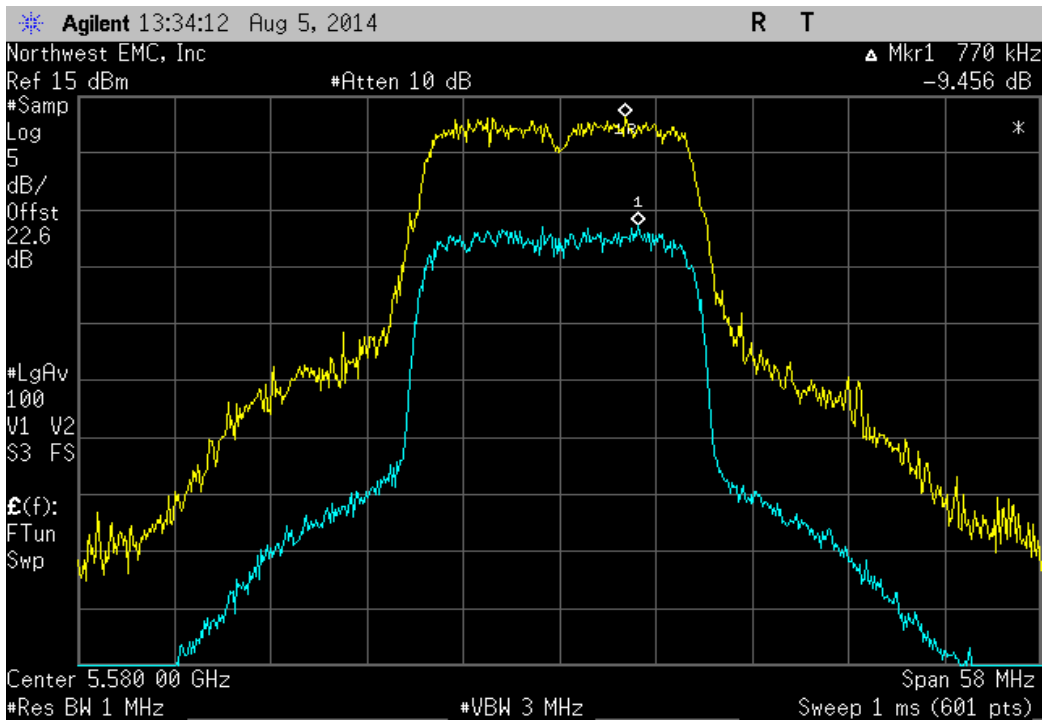
| 802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel | | | |
|---|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 9.032 | 13 | Pass |



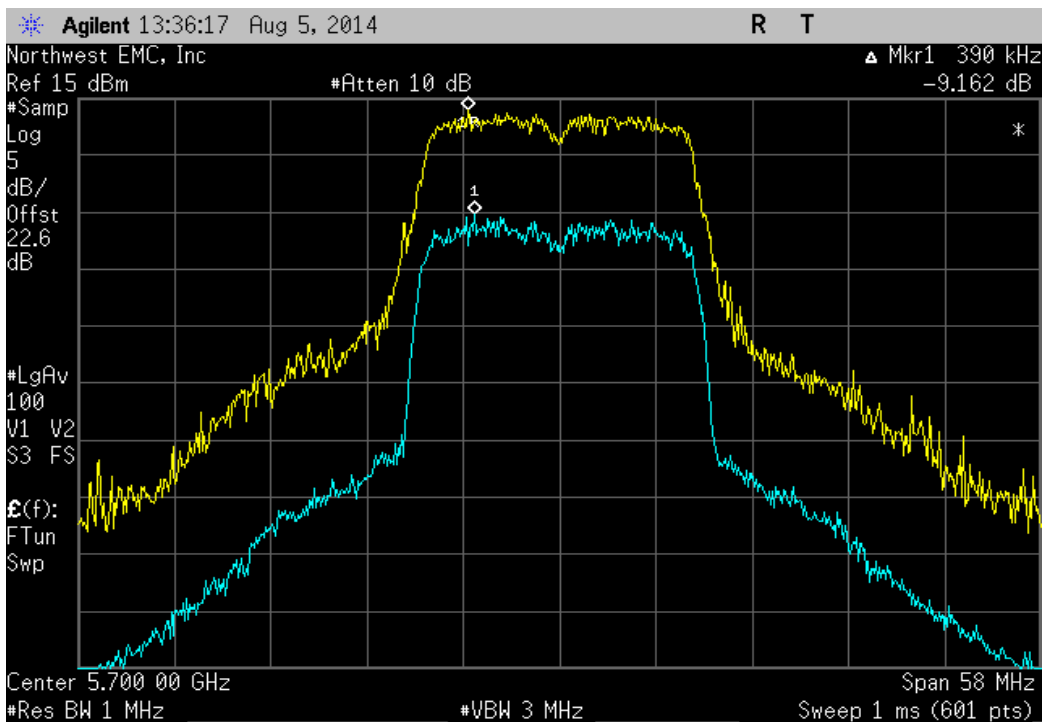
| 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel | | | |
|---|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 9.111 | 13 | Pass |



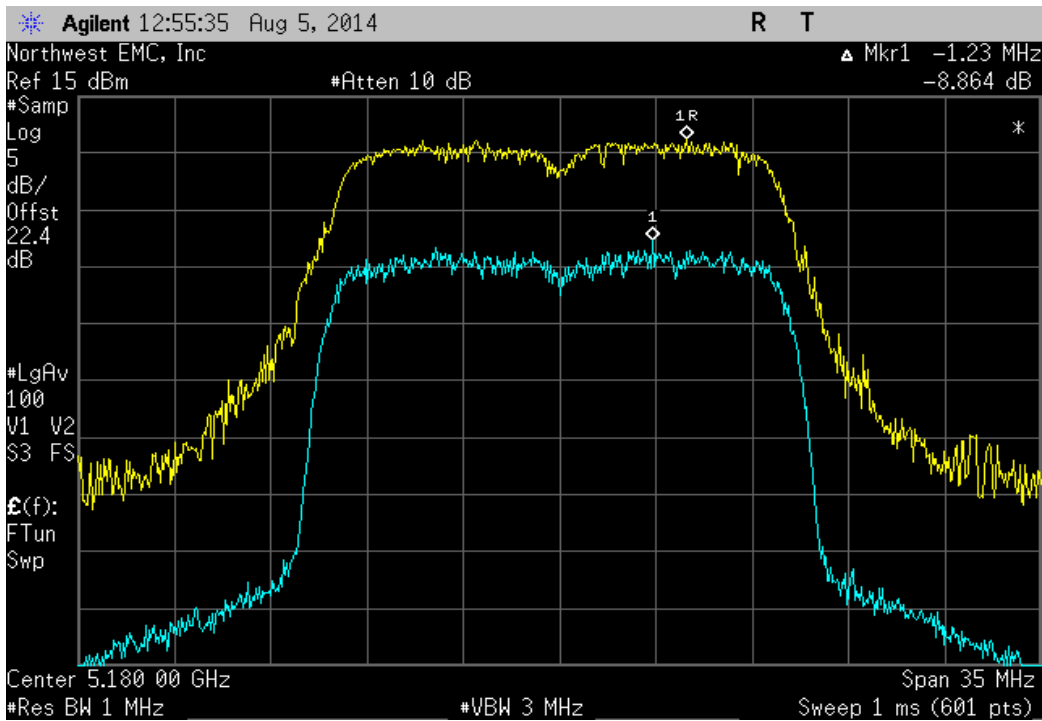
| 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel | | | |
|---|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 9.456 | 13 | Pass |



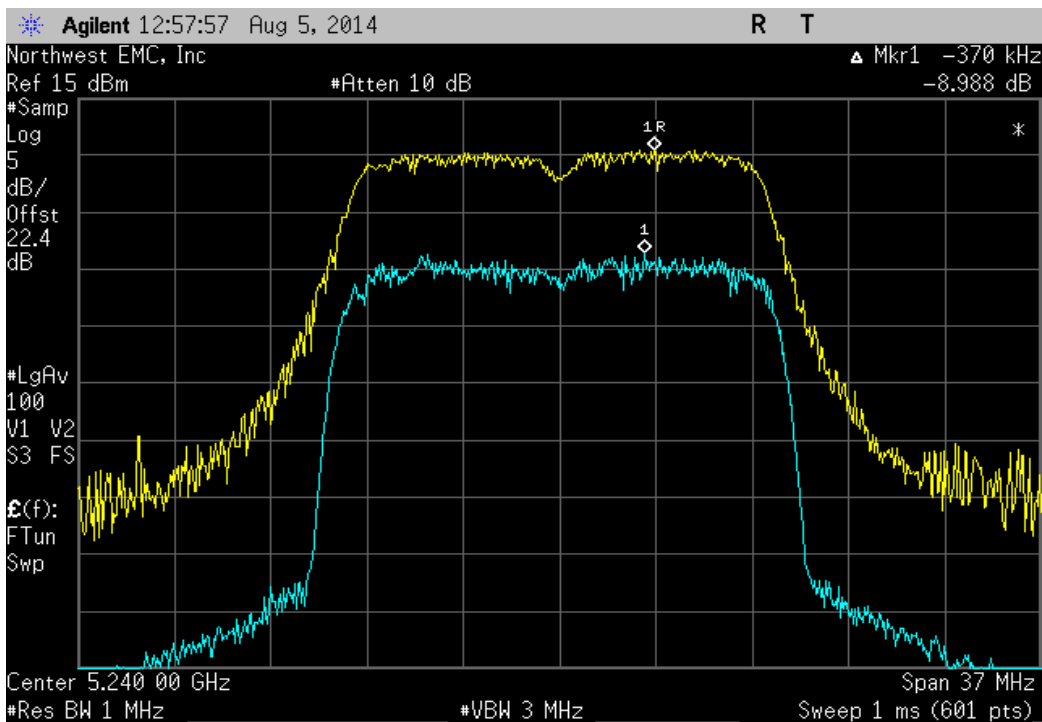
| 802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel | | | |
|--|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 9.162 | 13 | Pass |



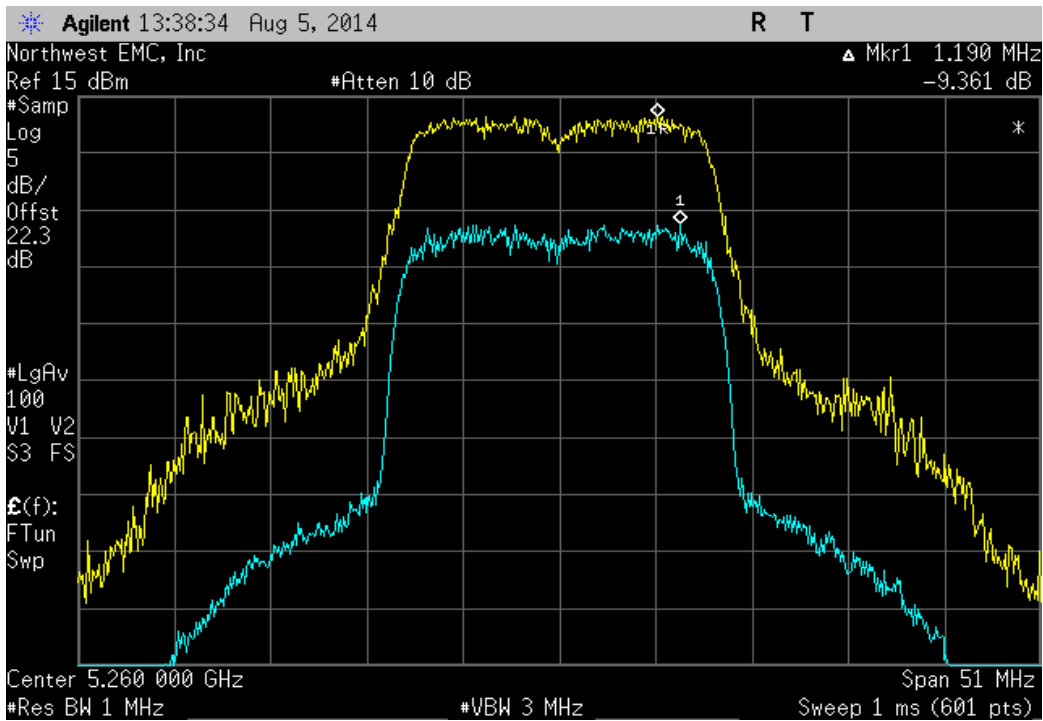
| 802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel | | | |
|--|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 8.864 | 13 | Pass |



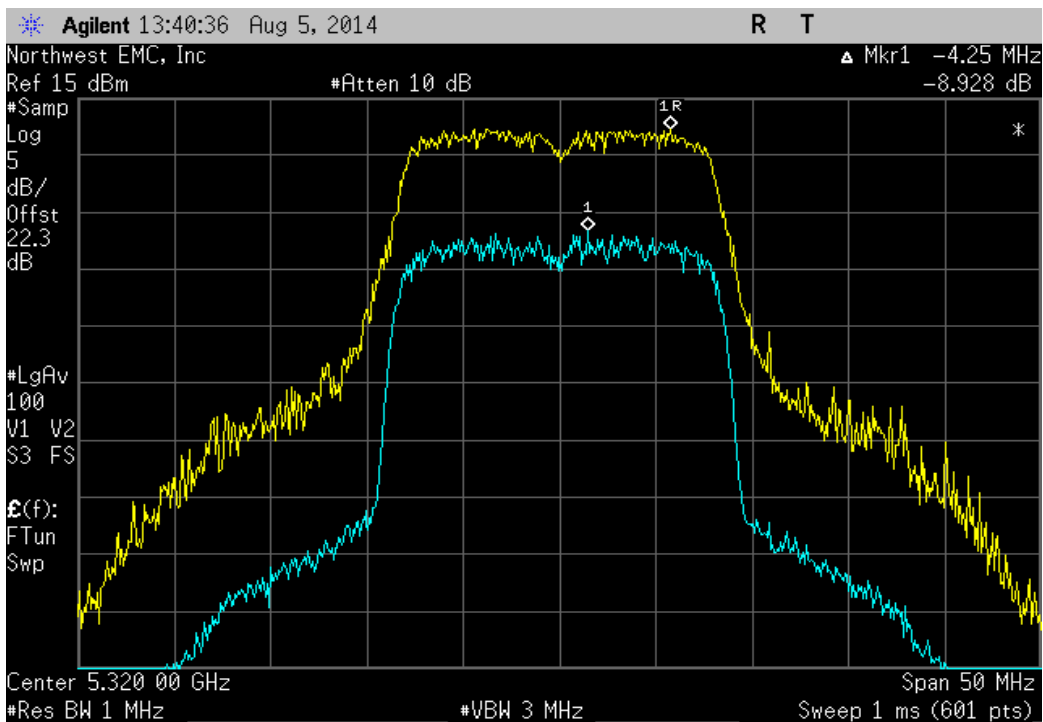
| 802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel | | | |
|---|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 8.988 | 13 | Pass |



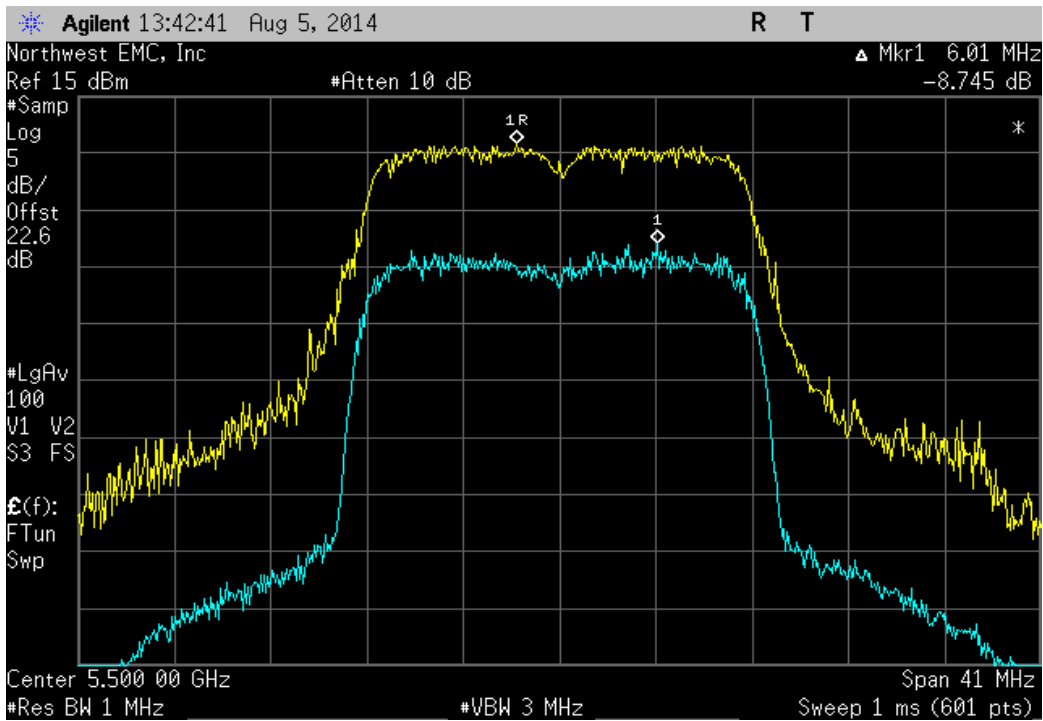
| 802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel | | | |
|--|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 9.361 | 13 | Pass |



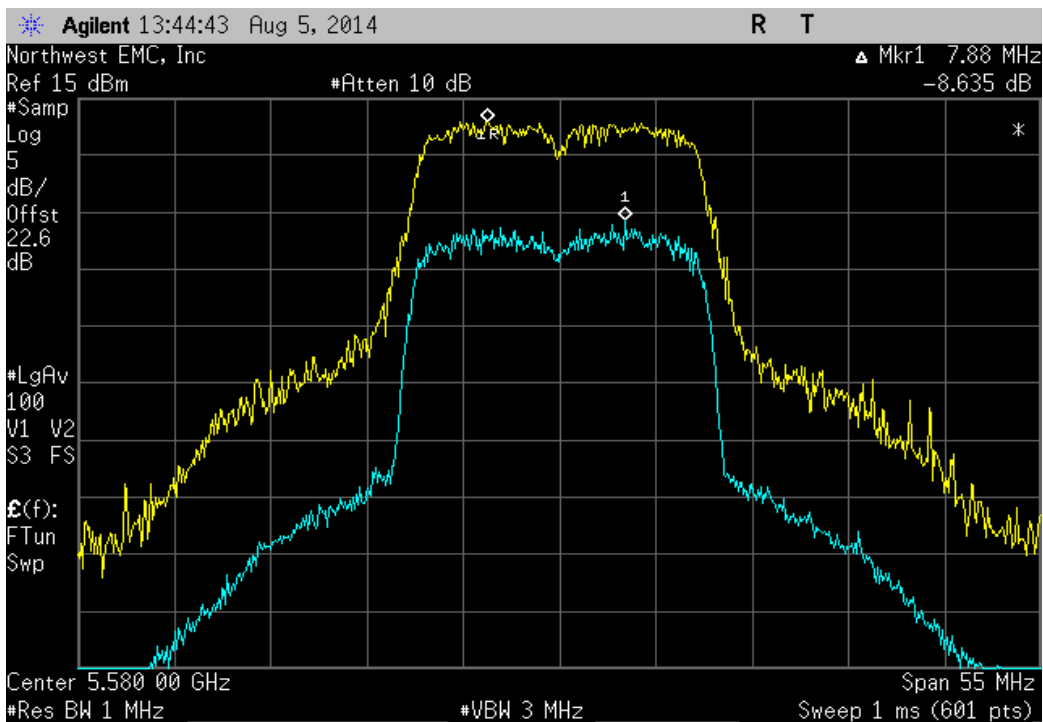
| 802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel | | | |
|---|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 8.928 | 13 | Pass |



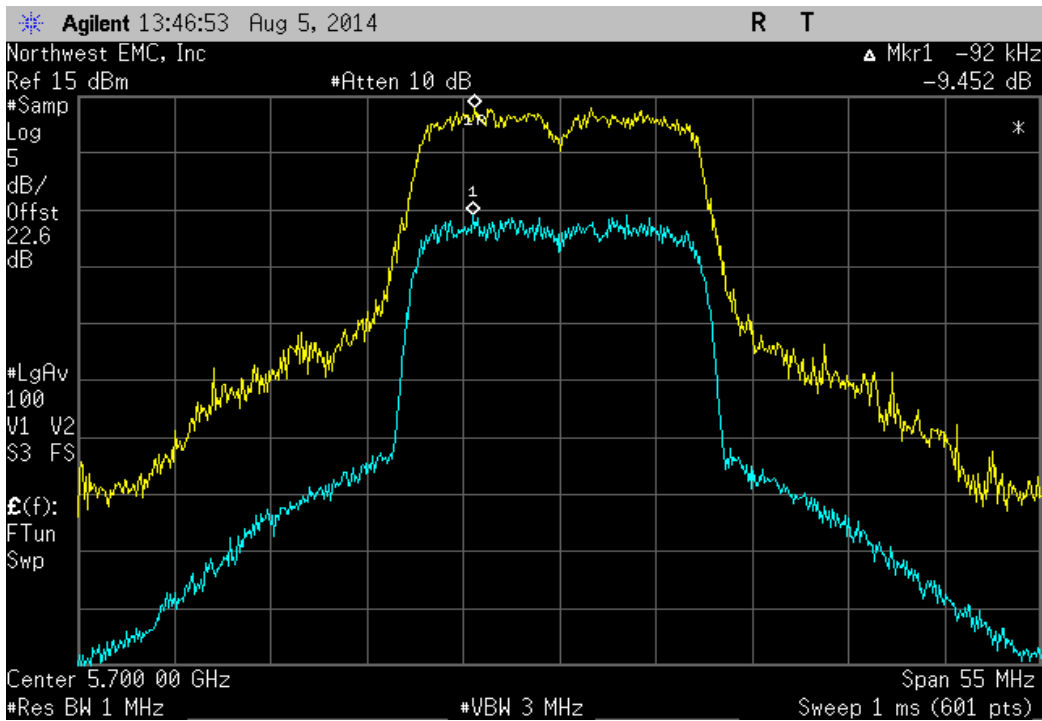
| 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel | | | |
|---|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 8.745 | 13 | Pass |



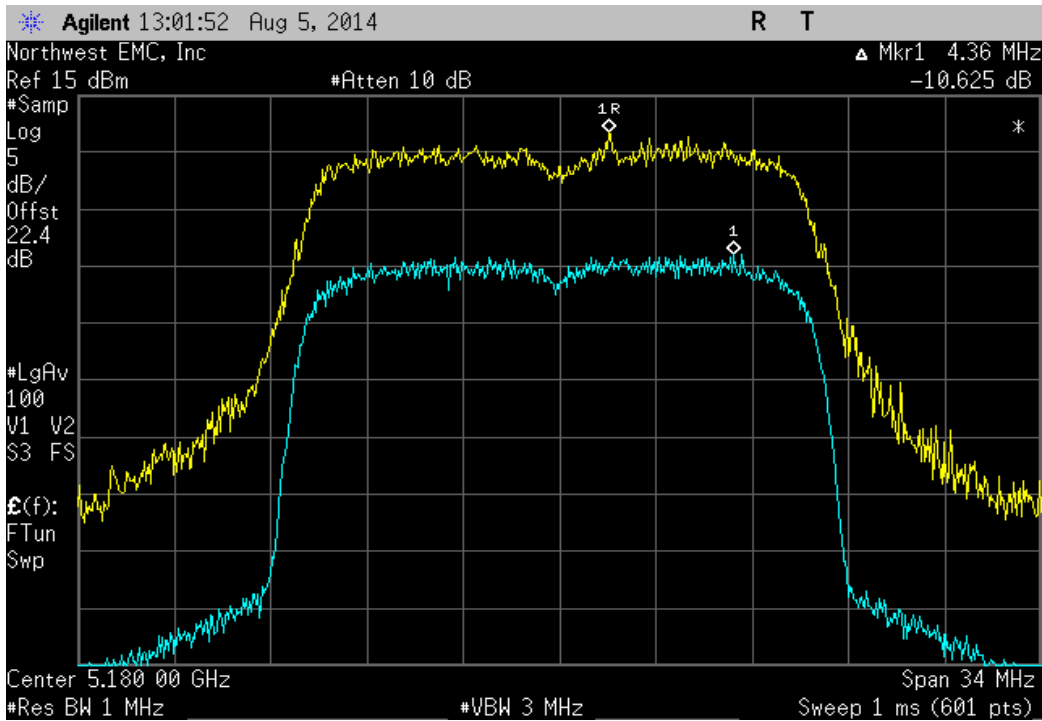
| 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel | | | |
|---|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 8.635 | 13 | Pass |



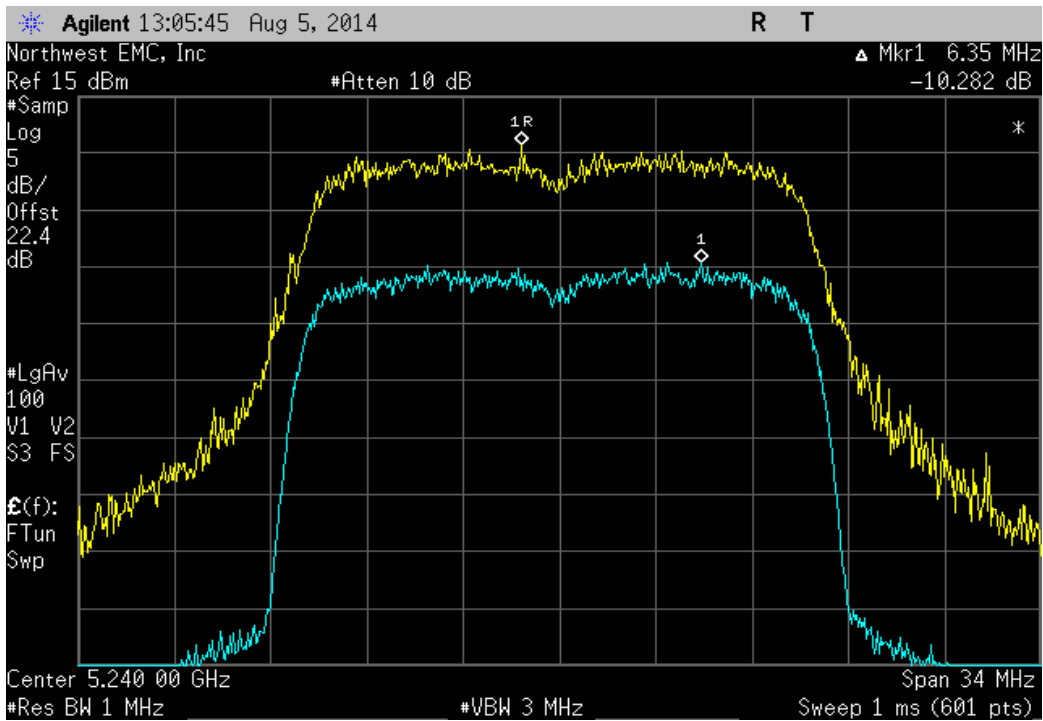
| 802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel | | | |
|--|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 9.452 | 13 | Pass |



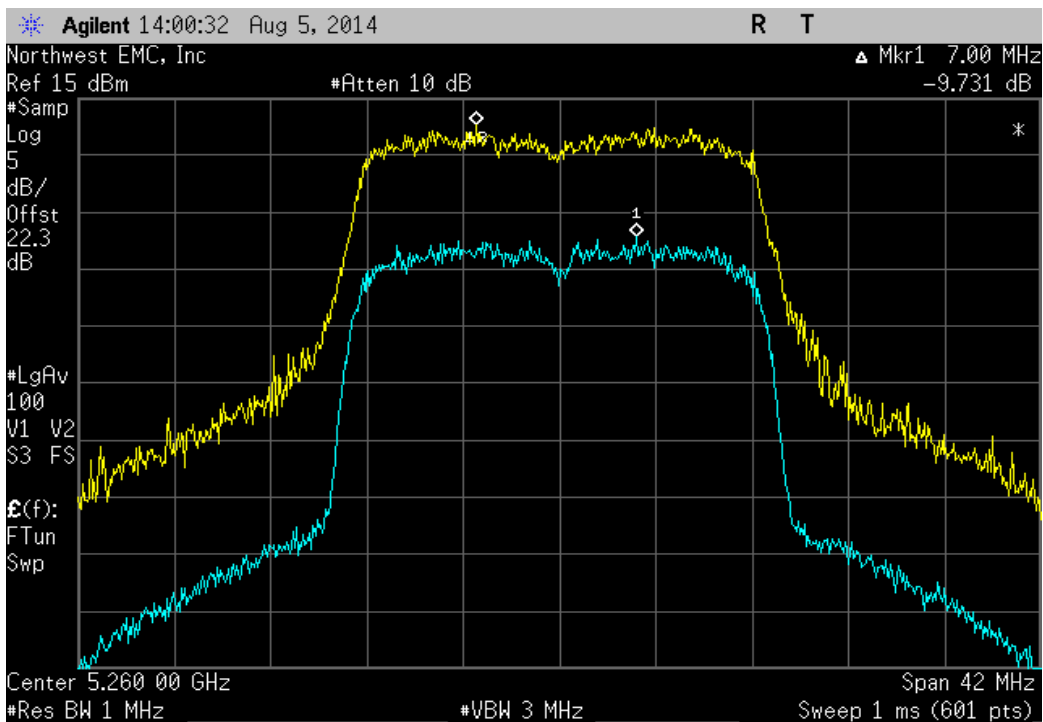
| 802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 36, Low Channel | | | |
|---|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 10.625 | 13 | Pass |



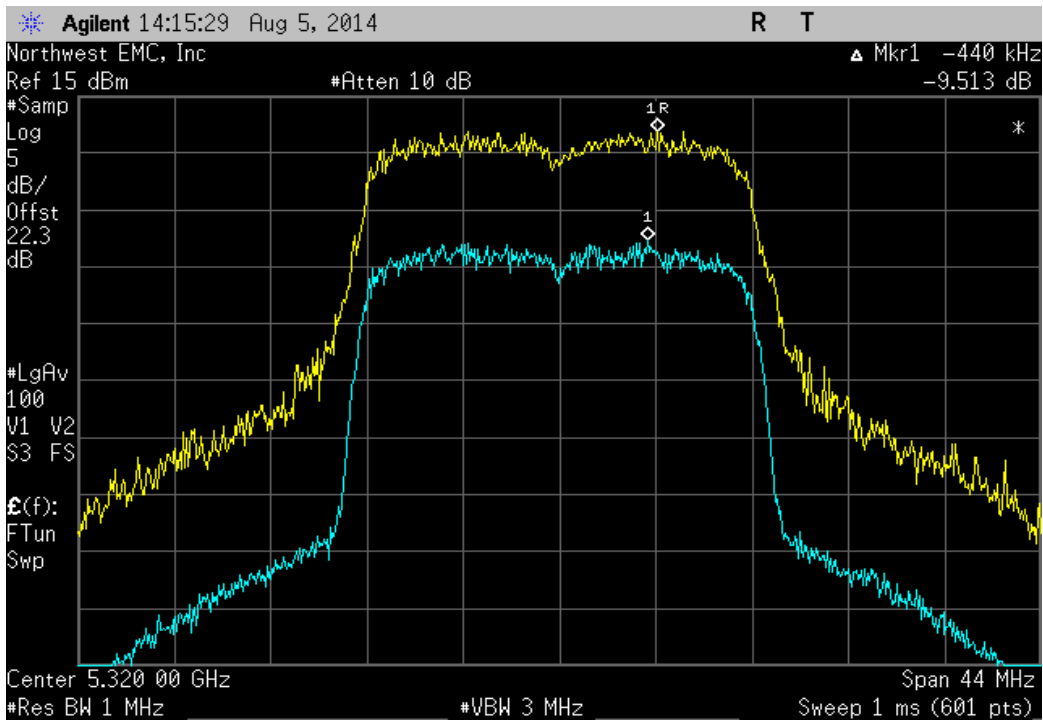
| 802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 48, High Channel | | | |
|--|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 10.282 | 13 | Pass |



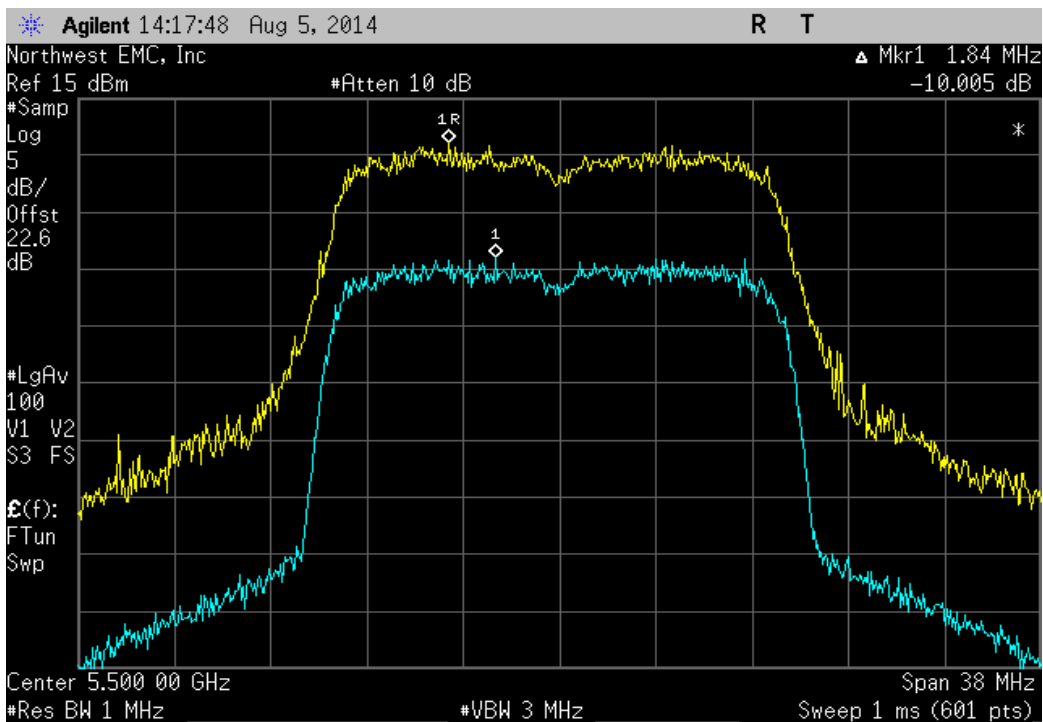
| 802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 52, Low Channel | | | |
|---|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 9.731 | 13 | Pass |



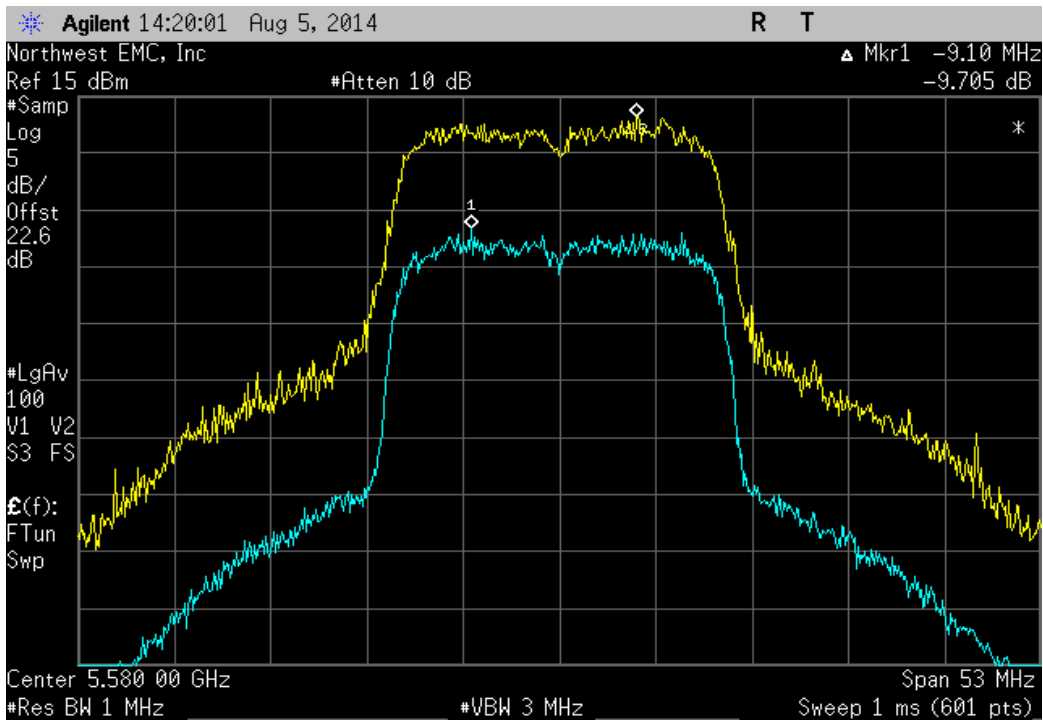
| 802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 64, High Channel | | | |
|--|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 9.513 | 13 | Pass |



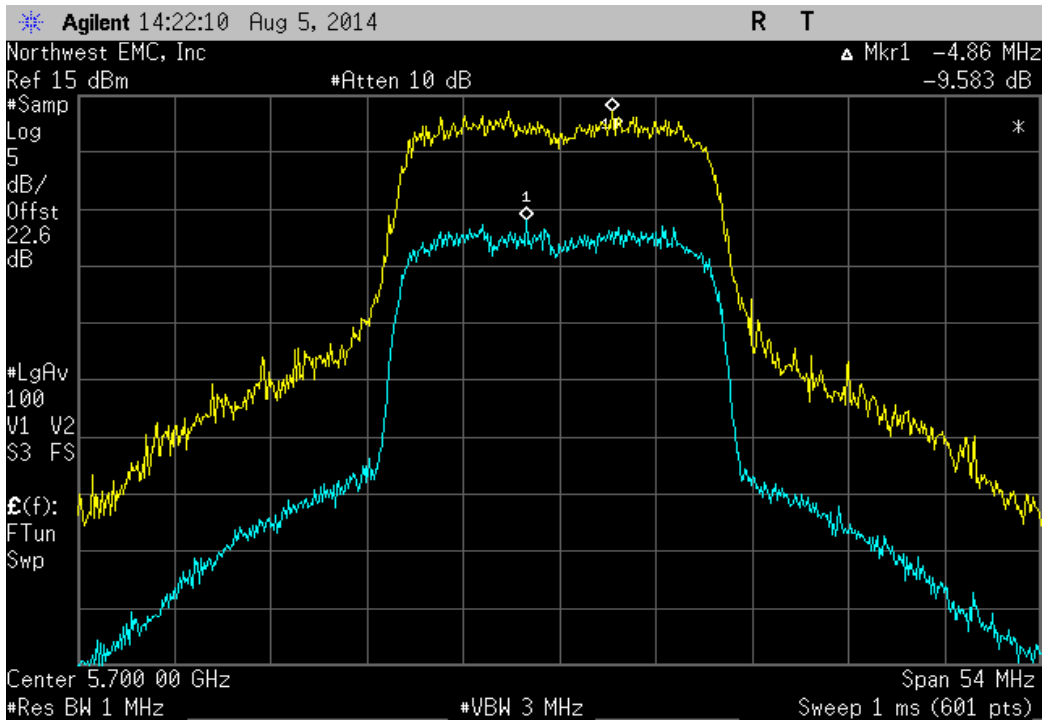
| 802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 100, Low Channel | | | |
|--|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 10.005 | 13 | Pass |



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

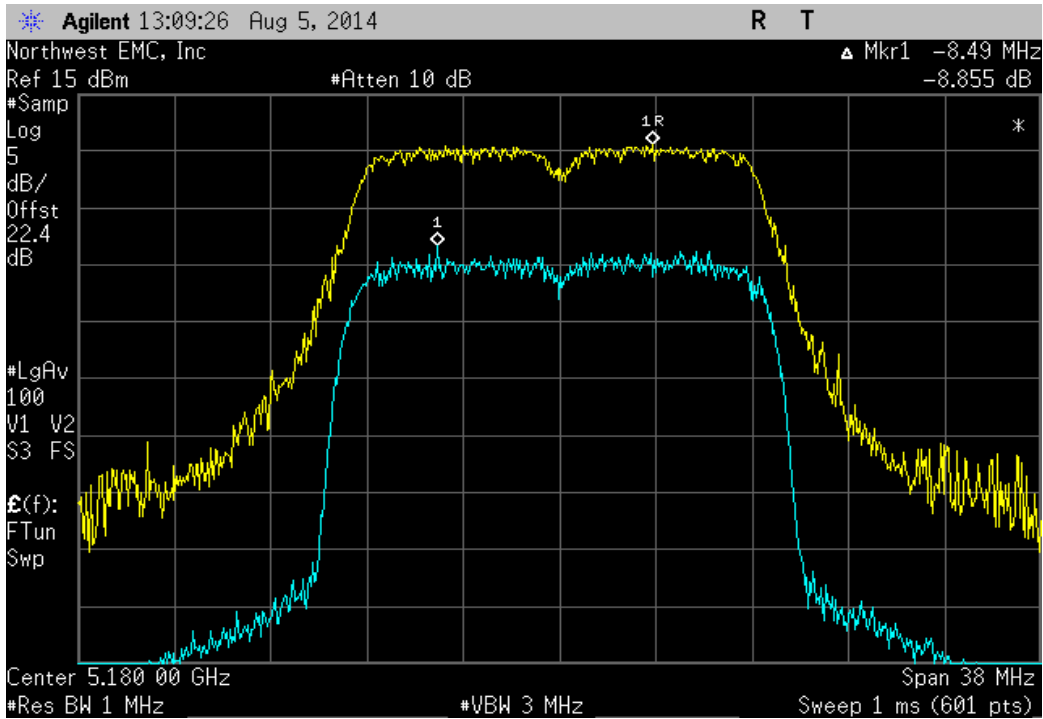


| 802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 140, High Channel | | | |
|---|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 9.583 | 13 | Pass |



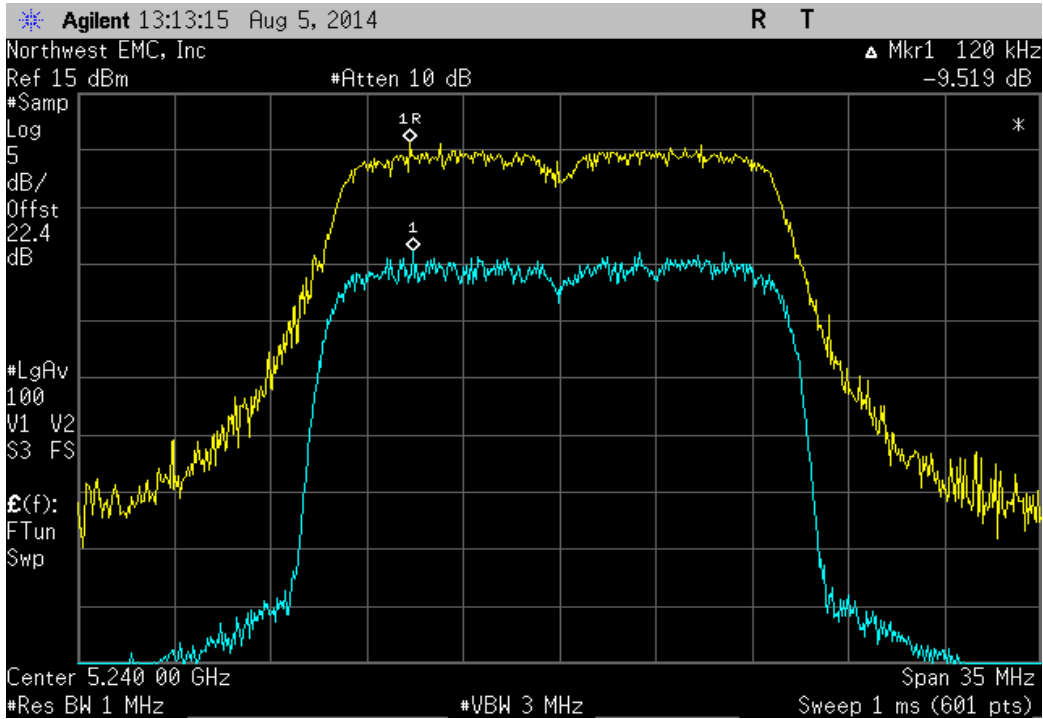
802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 36, Low Channel

| | Value (dB) | Limit ≤ (dB) | Results |
|--|------------|--------------|---------|
| | 8.855 | 13 | Pass |

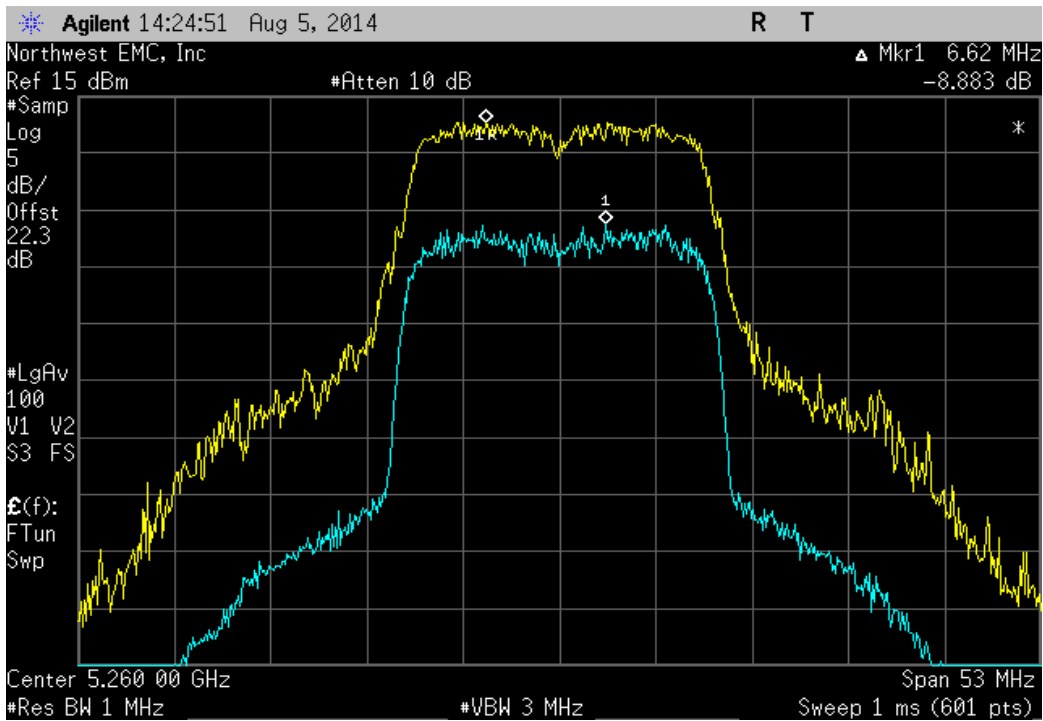


802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 48, High Channel

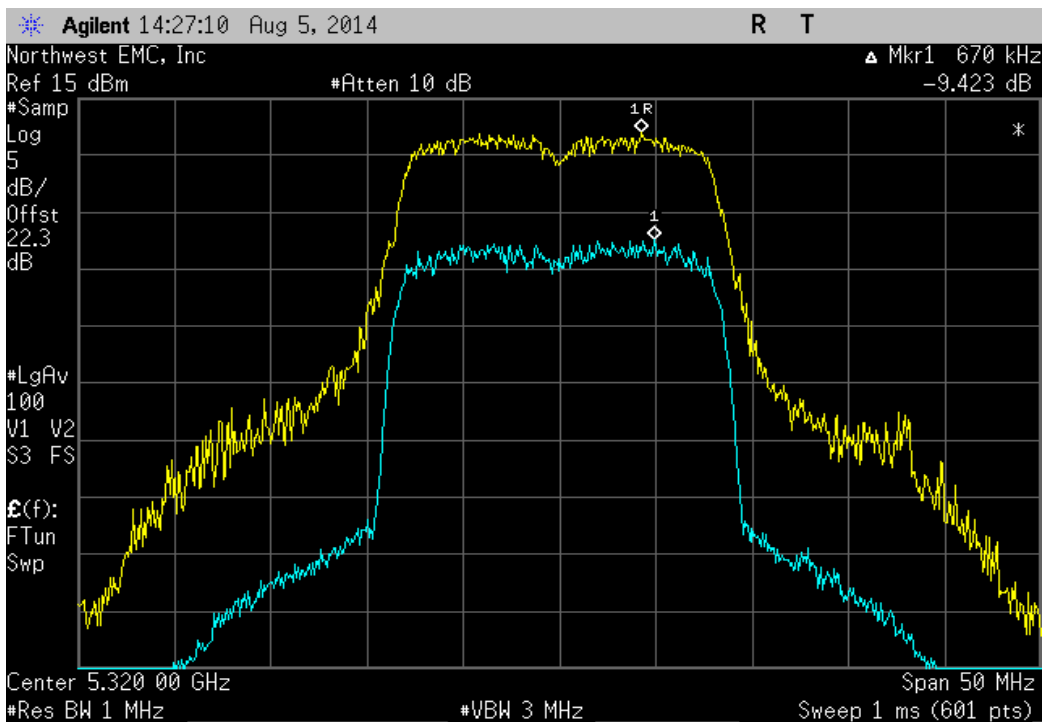
| | Value (dB) | Limit ≤ (dB) | Results |
|--|------------|--------------|---------|
| | 9.519 | 13 | Pass |



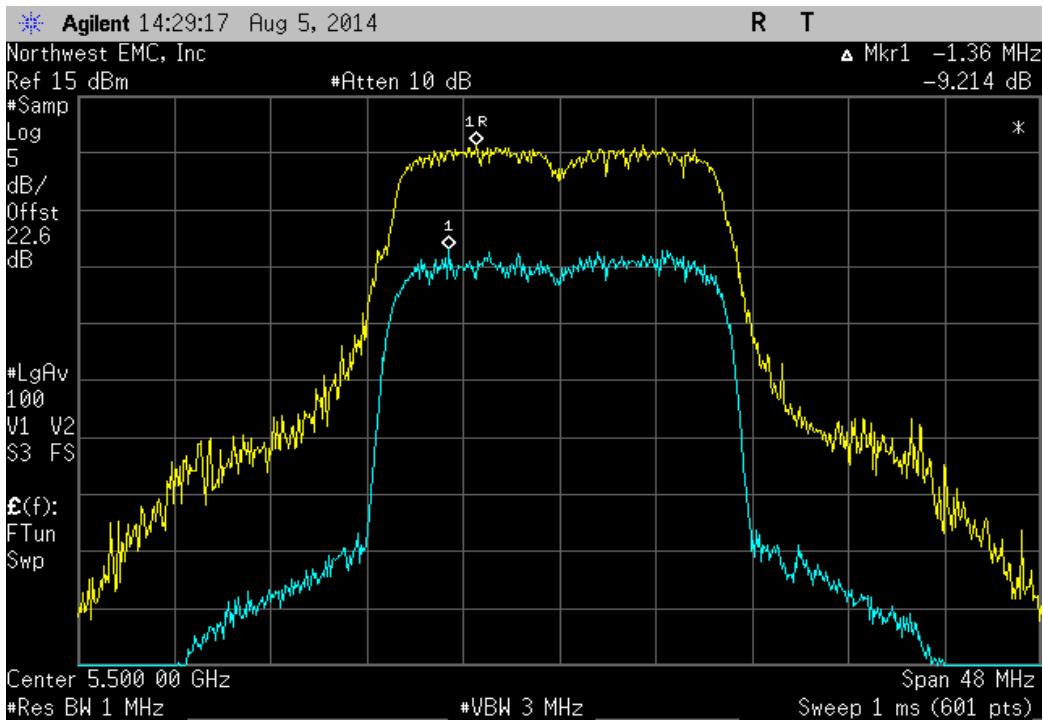
| 802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 52, Low Channel | | | |
|---|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 8.883 | 13 | Pass |



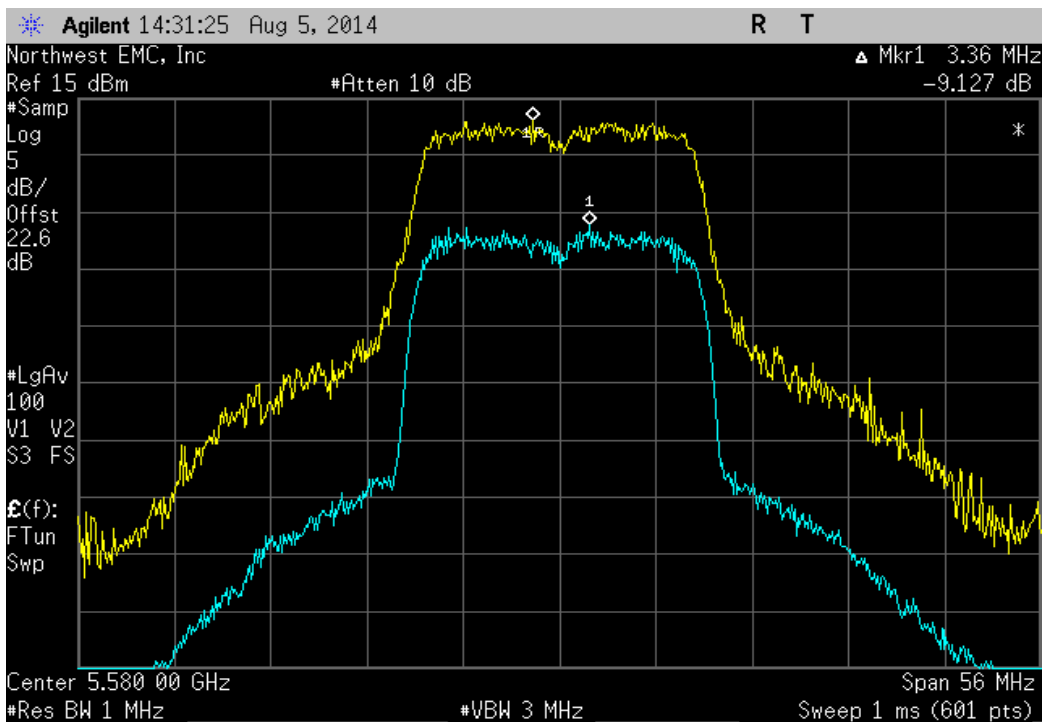
| 802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 64, High Channel | | | |
|--|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 9.423 | 13 | Pass |



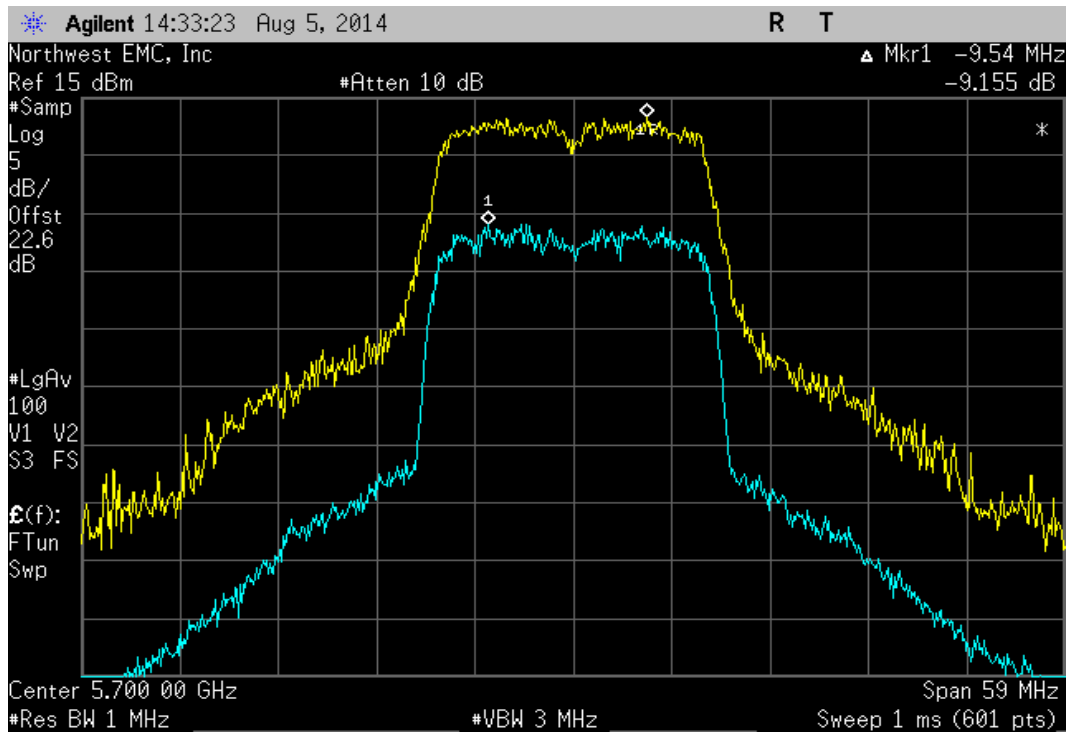
| 802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 100, Low Channel | | | |
|--|------------|--------------|---------|
| | Value (dB) | Limit ≤ (dB) | Results |
| | 9.214 | 13 | Pass |



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



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



PEAK POWER SPECTRAL DENSITY

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

TEST EQUIPMENT

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

TEST DESCRIPTION

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

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

The spectrum analyzer settings were as follows:

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

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



PEAK POWER SPECTRAL DENSITY

XMit 2014.02.07
NweTx 2014.07.18.3

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

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

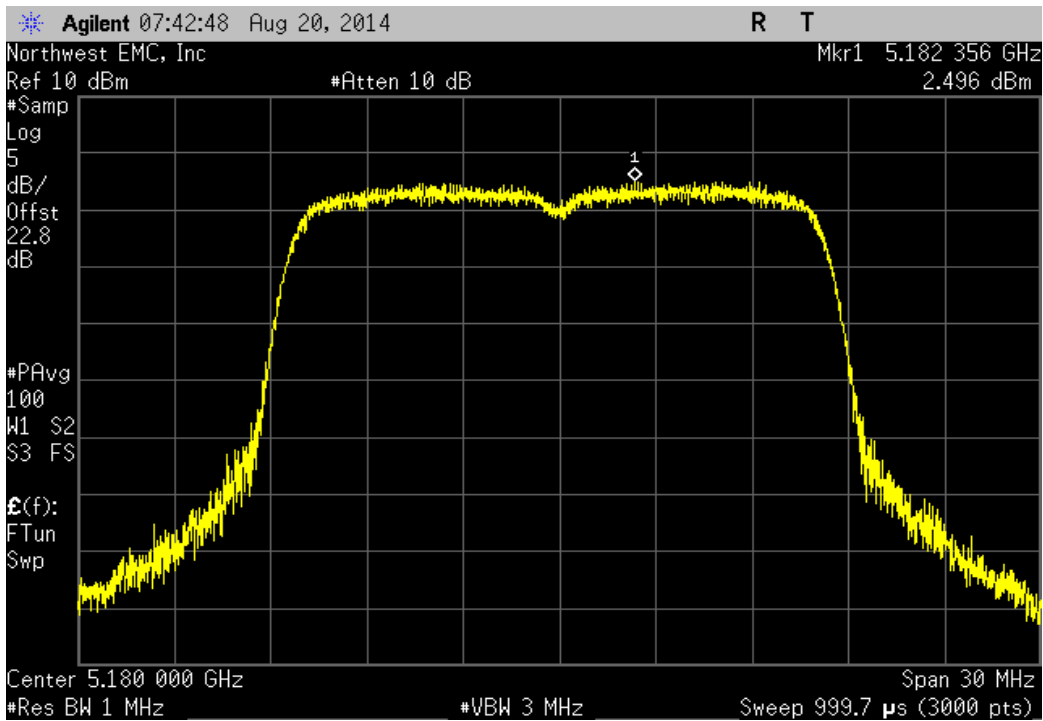
COMMENTS
None

DEVIATIONS FROM TEST STANDARD
None

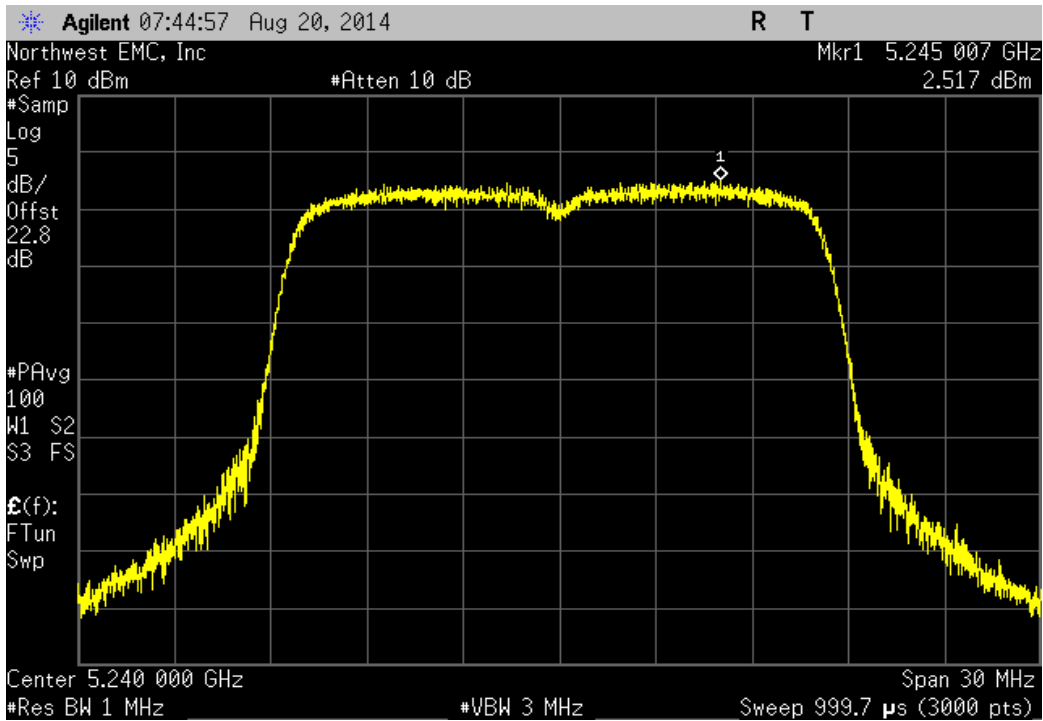
| | | | |
|-----------------|---|-----------|--------------------|
| Configuration # | 1 | Signature | <i>Trevor Buls</i> |
|-----------------|---|-----------|--------------------|

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

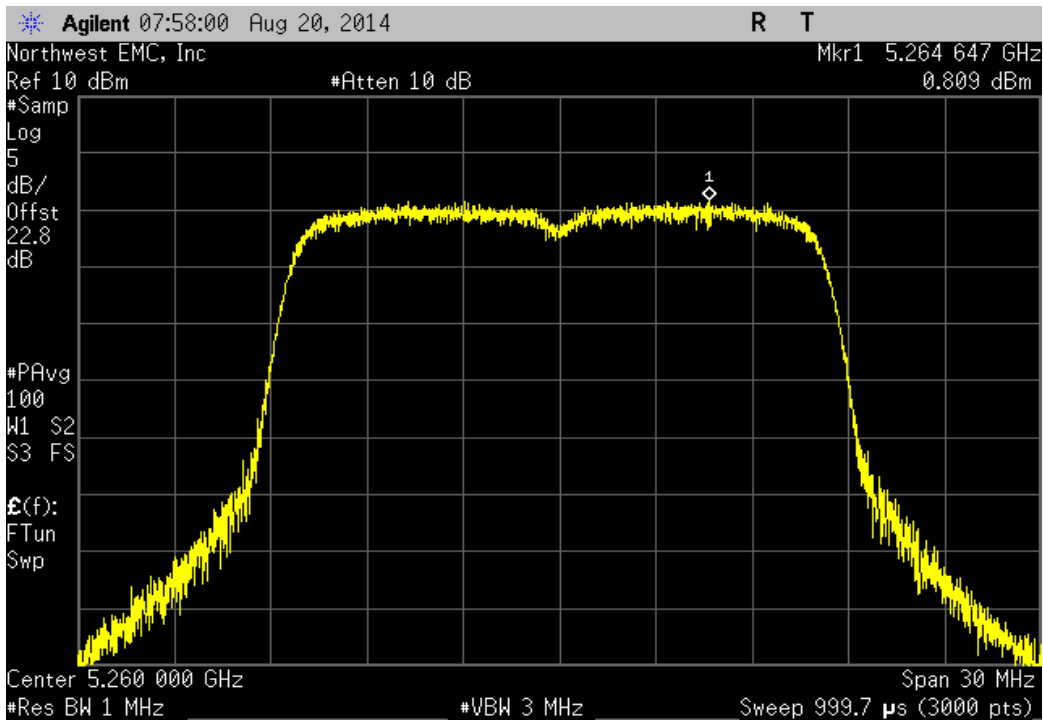
| Port 1, 802.11(a) 6 Mbps, Ch 36, Low Channel 5180 MHz | | | |
|---|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | 2.496 | 4 | Pass |



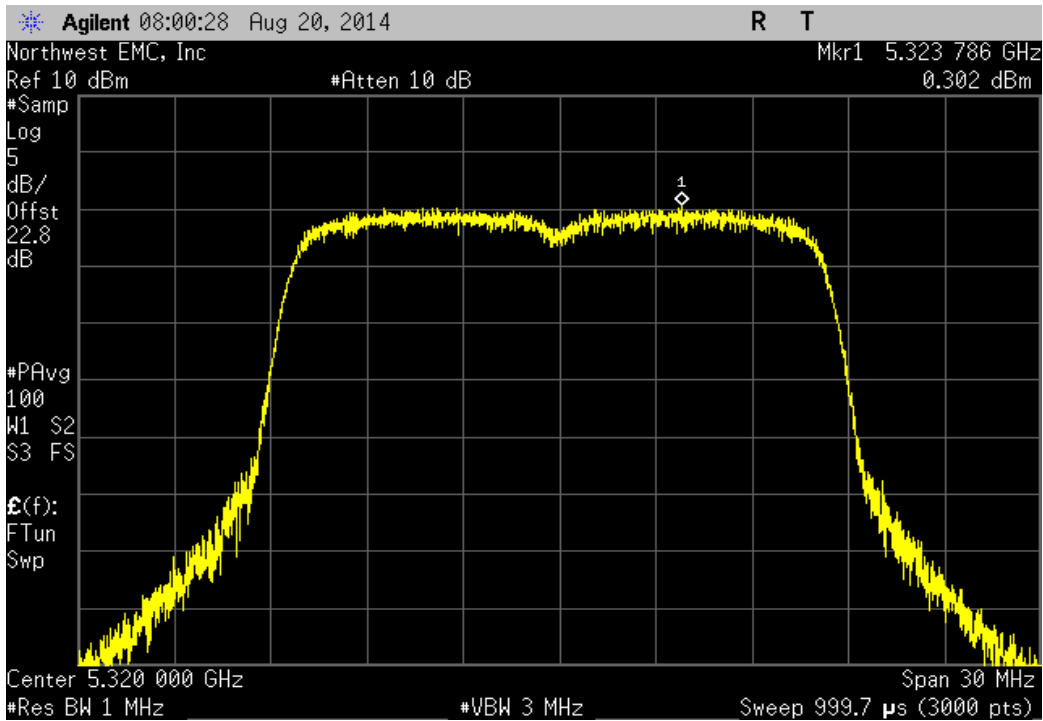
| Port 1, 802.11(a) 6 Mbps, Ch 48, High Channel 5240 MHz | | | |
|--|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | 2.517 | 4 | Pass |



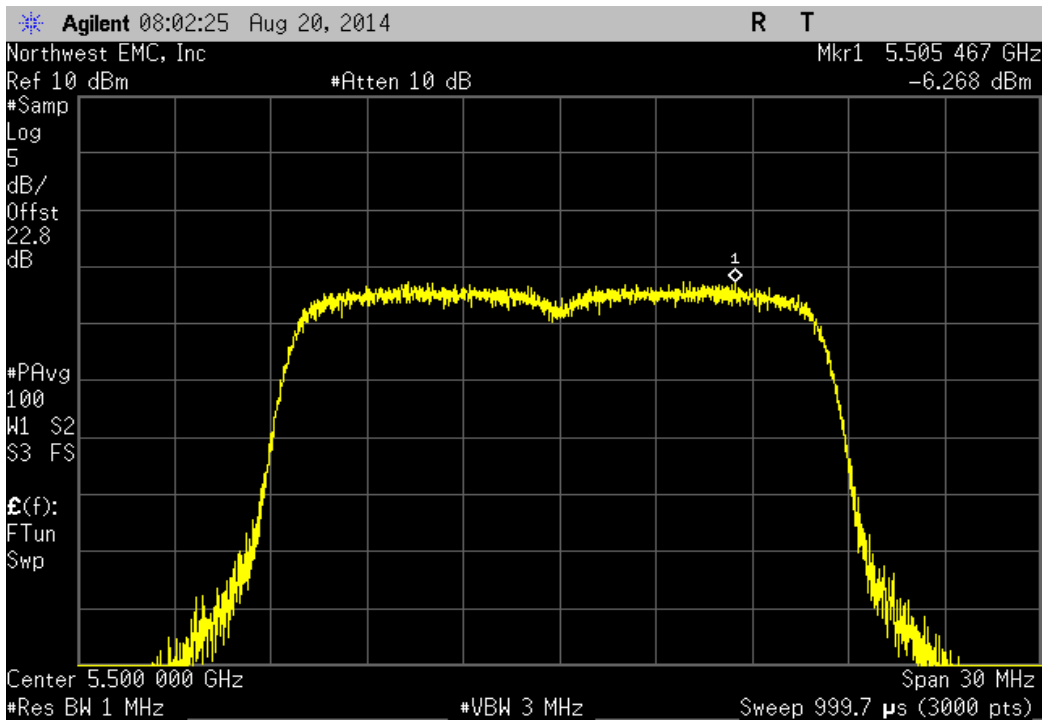
| Port 1, 802.11(a) 6 Mbps, Ch 52, Low Channel 5260 MHz | | | |
|---|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | 0.809 | 11 | Pass |



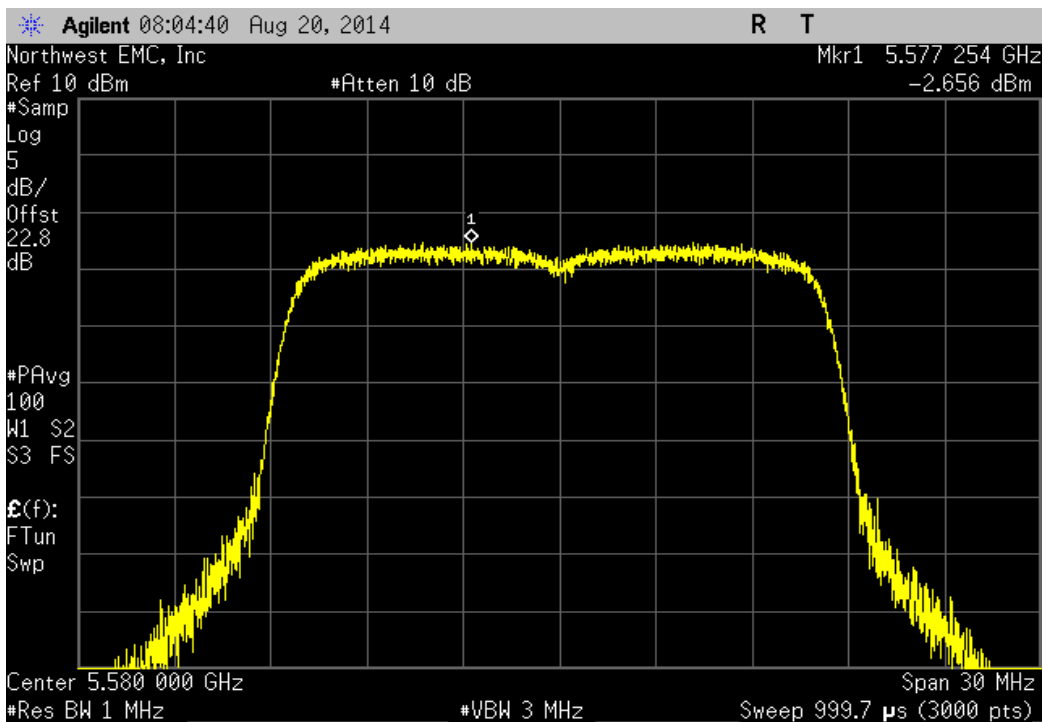
| Port 1, 802.11(a) 6 Mbps, Ch 64, High Channel 5320 MHz | | | |
|--|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | 0.302 | 11 | Pass |



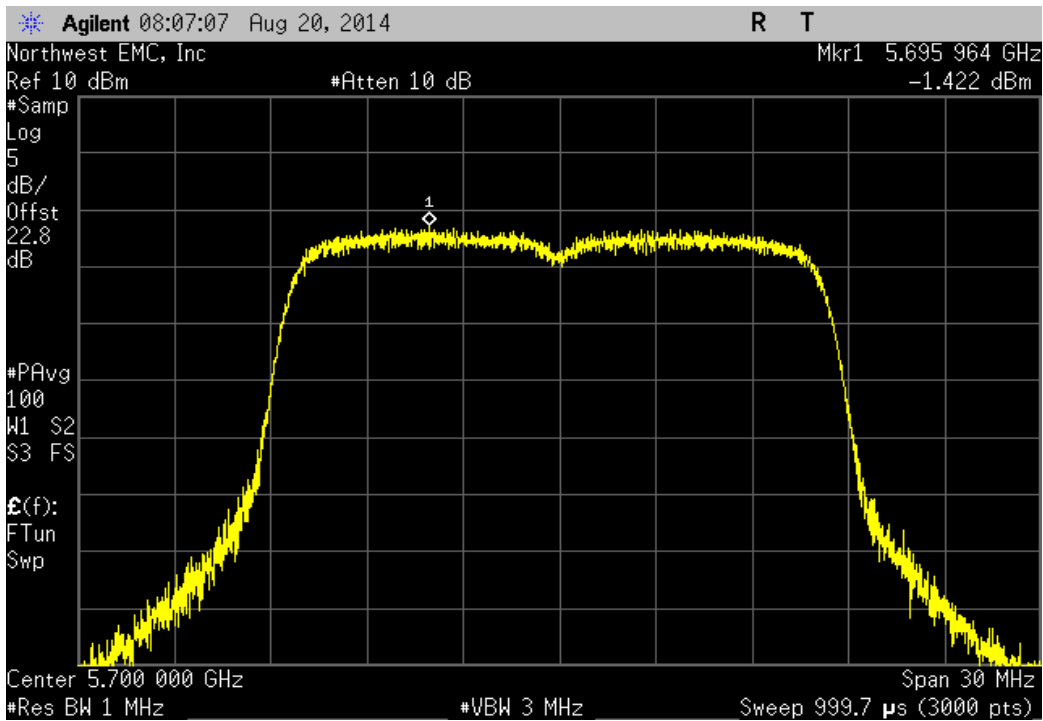
| Port 1, 802.11(a) 6 Mbps, Ch 100, Low Channel 5500 MHz | | | |
|--|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -6.268 | 11 | Pass |



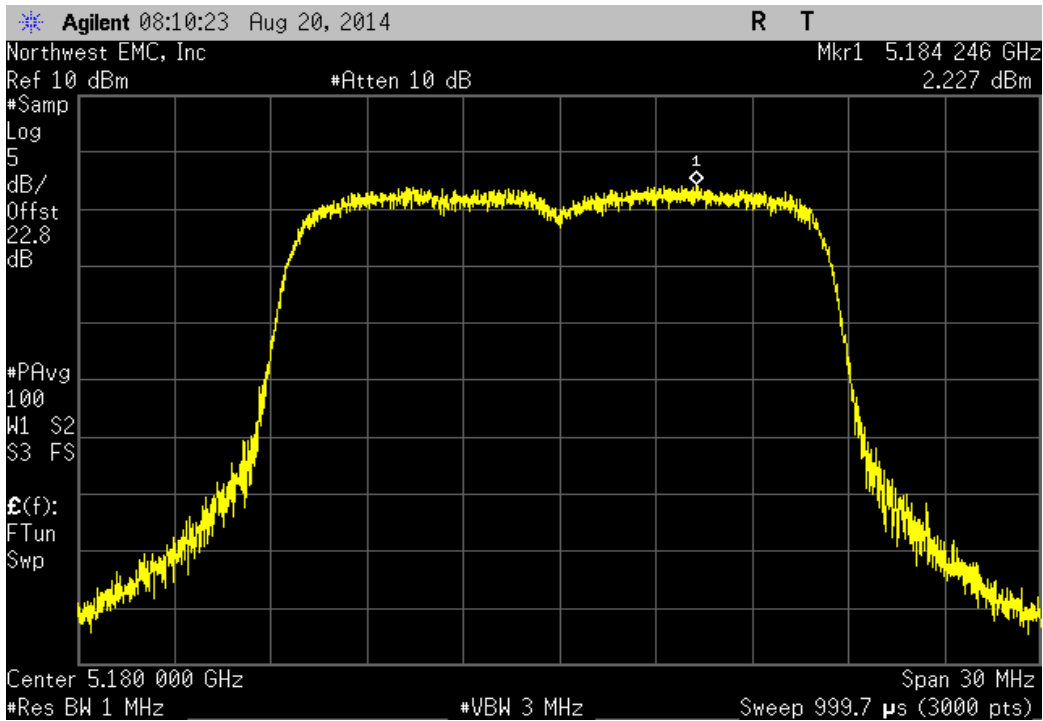
| Port 1, 802.11(a) 6 Mbps, Ch 116, Mid Channel 5580 MHz | | | |
|--|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -2.656 | 11 | Pass |



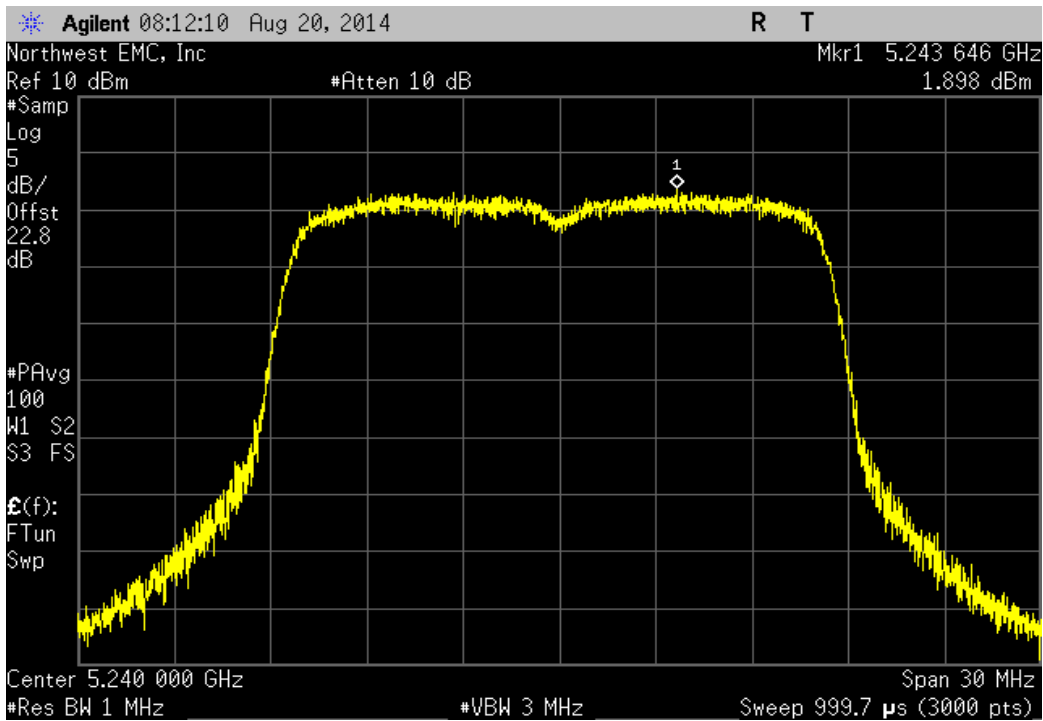
| Port 1, 802.11(a) 6 Mbps, Ch 140, High Channel 5700 MHz | | | |
|---|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -1.422 | 11 | Pass |



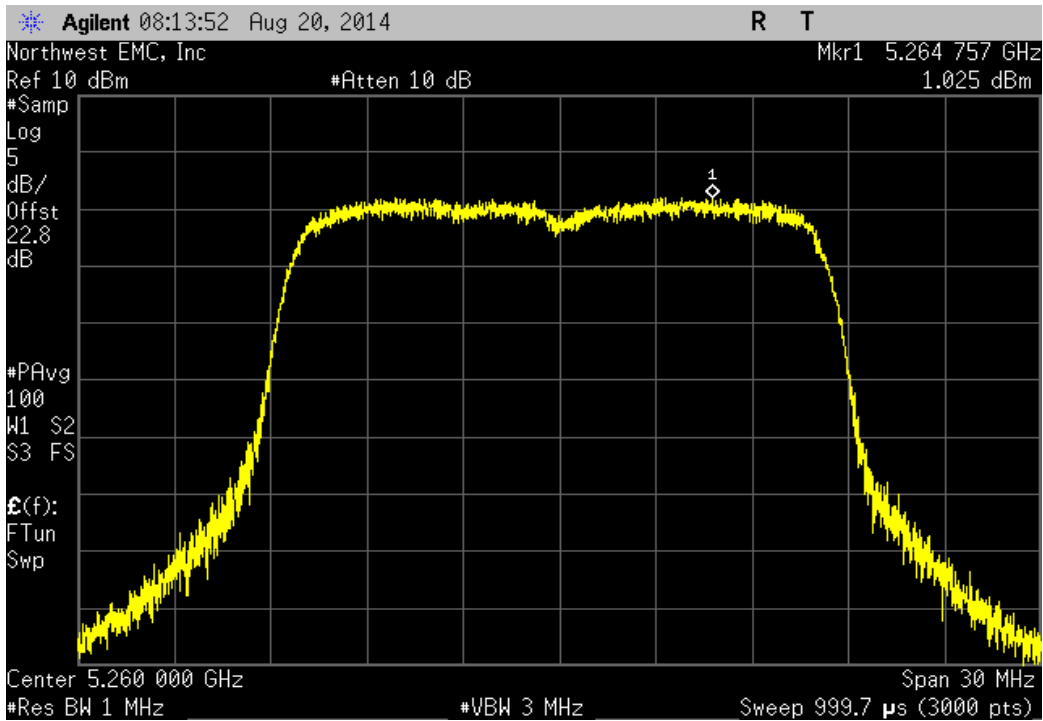
| Port 1, 802.11(a) 36 Mbps, Ch 36, Low Channel 5180 MHz | | | |
|--|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | 2.227 | 4 | Pass |



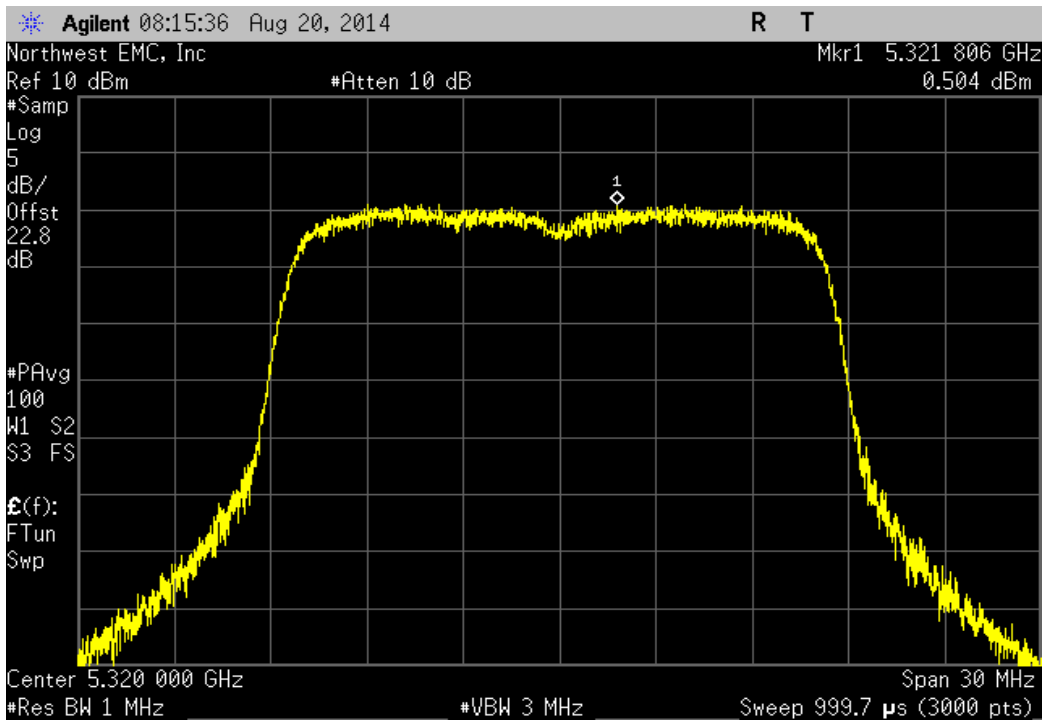
| Port 1, 802.11(a) 36 Mbps, Ch 48, High Channel 5240 MHz | | | |
|---|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | 1.898 | 4 | Pass |



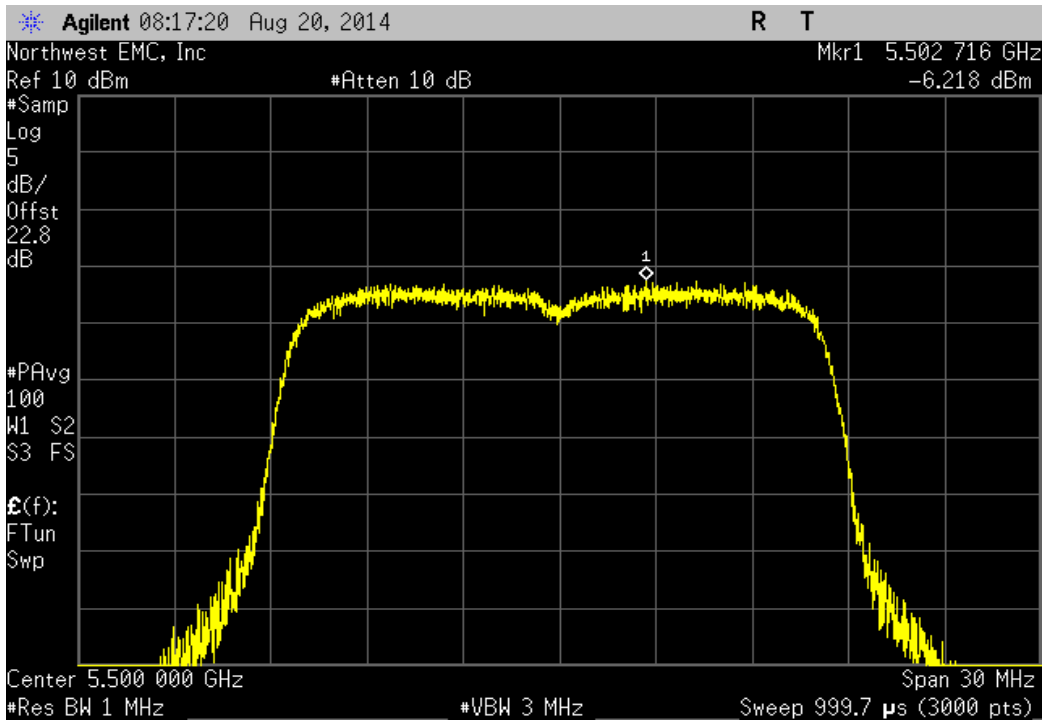
| Port 1, 802.11(a) 36 Mbps, Ch 52, Low Channel 5260 MHz | | | |
|--|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | 1.025 | 11 | Pass |



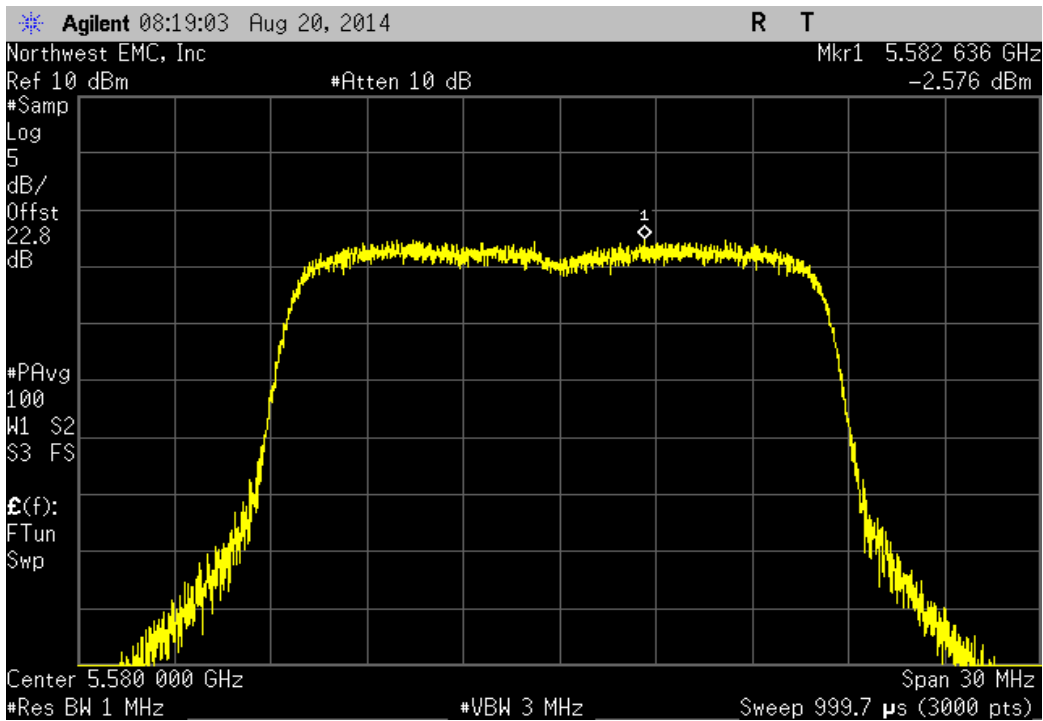
| Port 1, 802.11(a) 36 Mbps, Ch 64, High Channel 5320 MHz | | | |
|---|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | 0.504 | 11 | Pass |



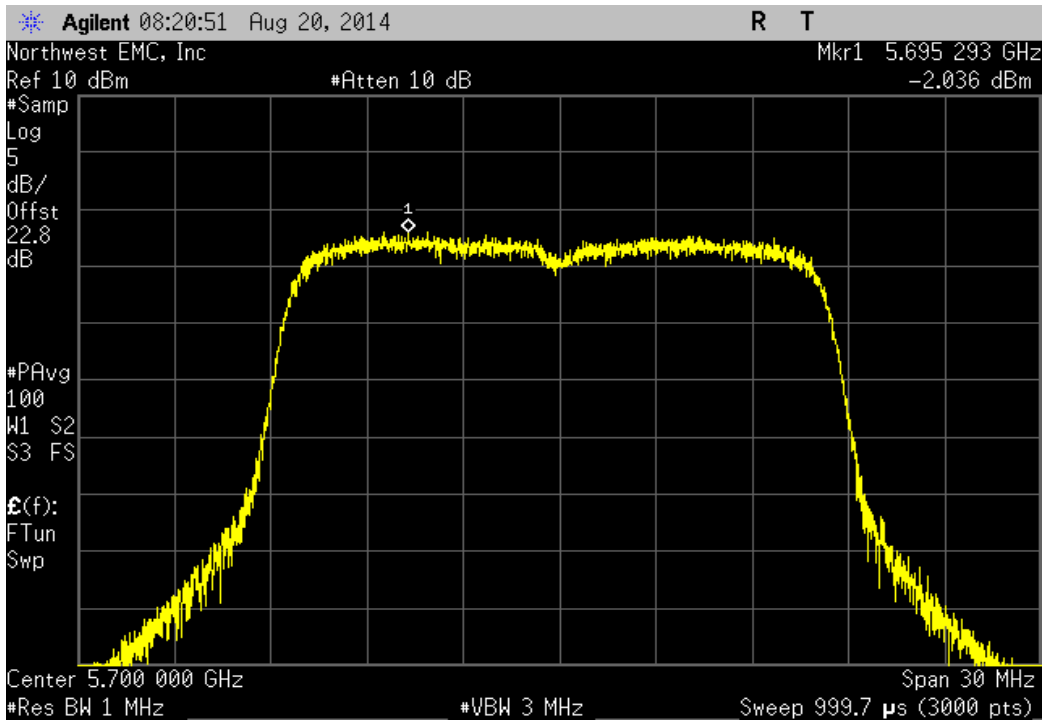
| Port 1, 802.11(a) 36 Mbps, Ch 100, Low Channel 5500 MHz | | | |
|---|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -6.218 | 11 | Pass |



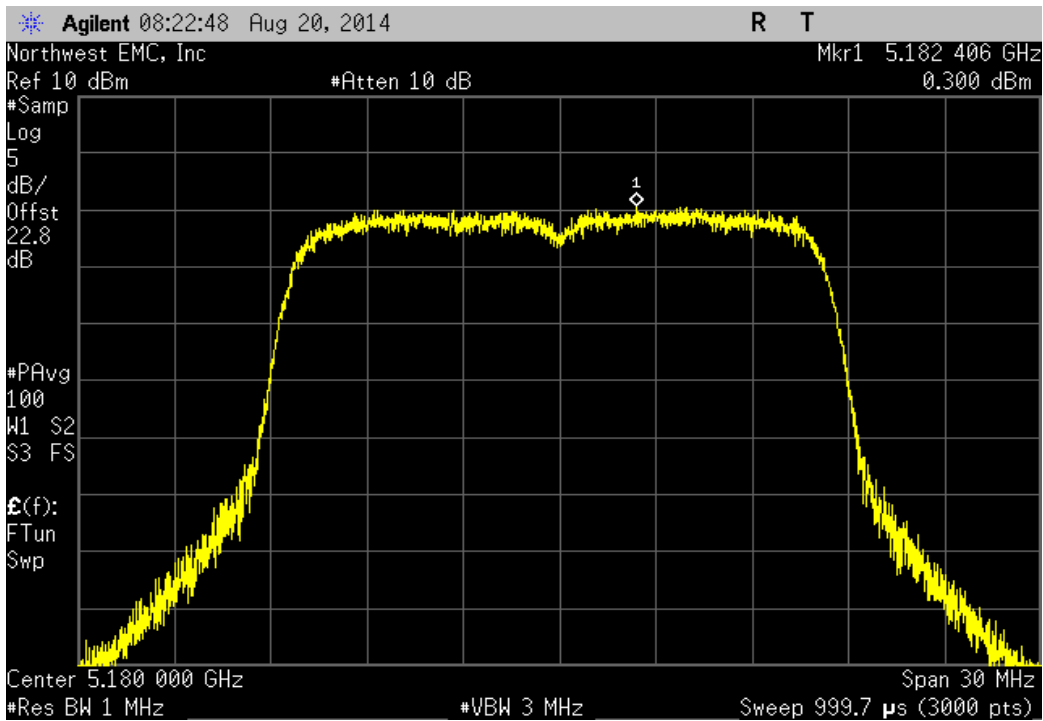
| Port 1, 802.11(a) 36 Mbps, Ch 116, Mid Channel 5580 MHz | | | |
|---|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -2.576 | 11 | Pass |



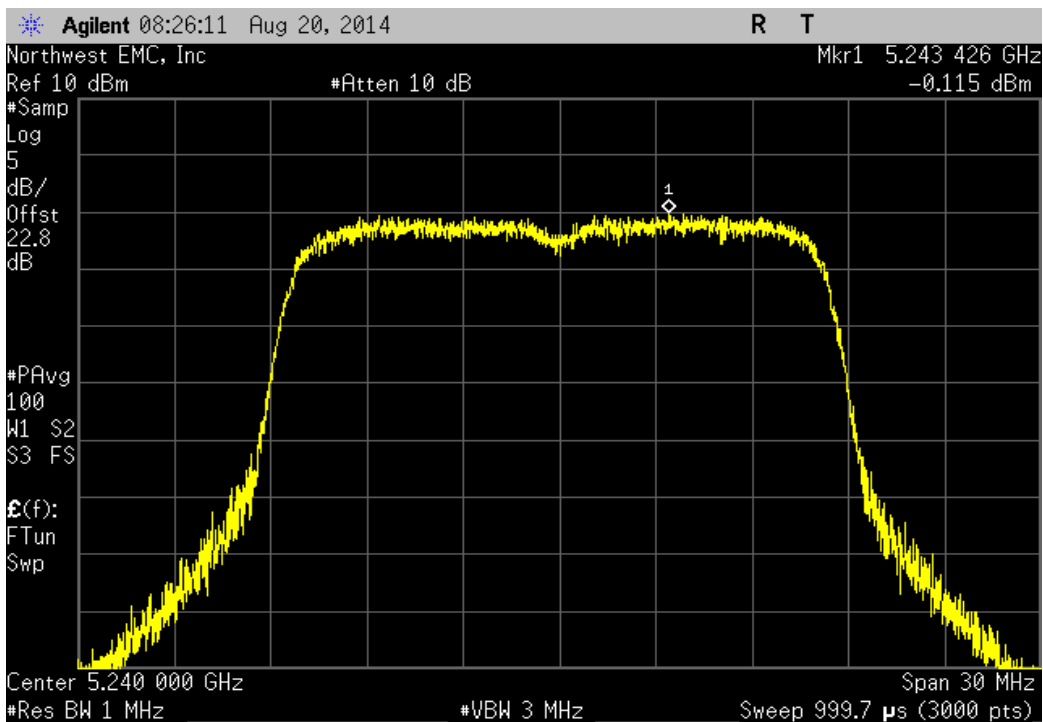
| Port 1, 802.11(a) 36 Mbps, Ch 140, High Channel 5700 MHz | | | |
|--|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -2.036 | 11 | Pass |



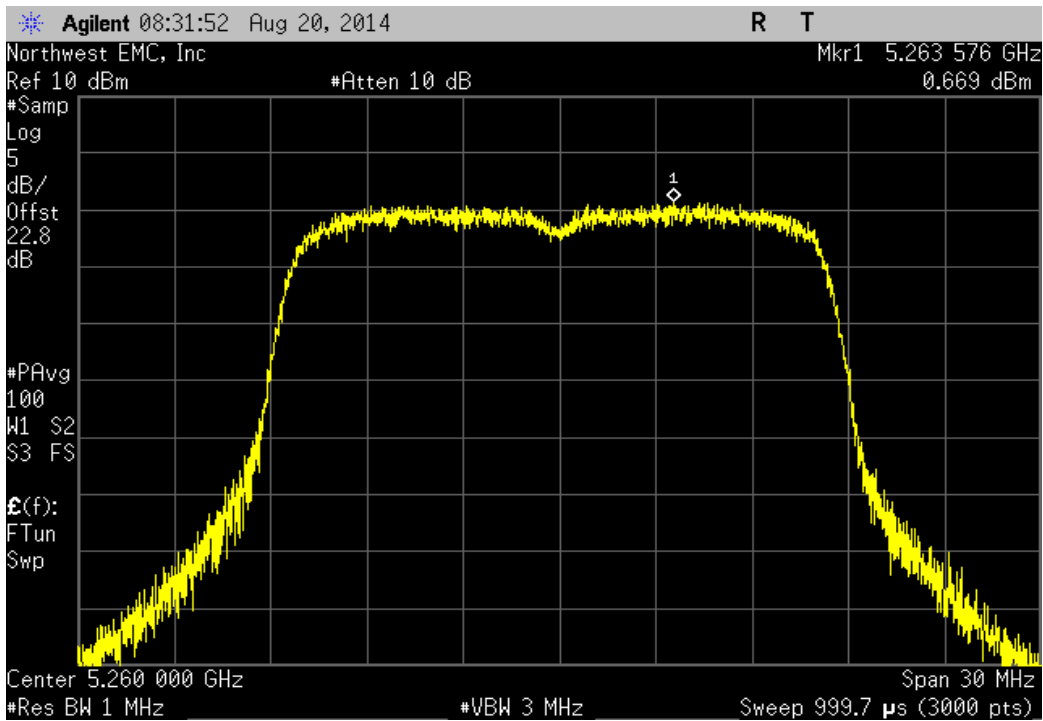
| Port 1, 802.11(a) 54 Mbps, Ch 36, Low Channel 5180 MHz | | | |
|--|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | 0.3 | 4 | Pass |



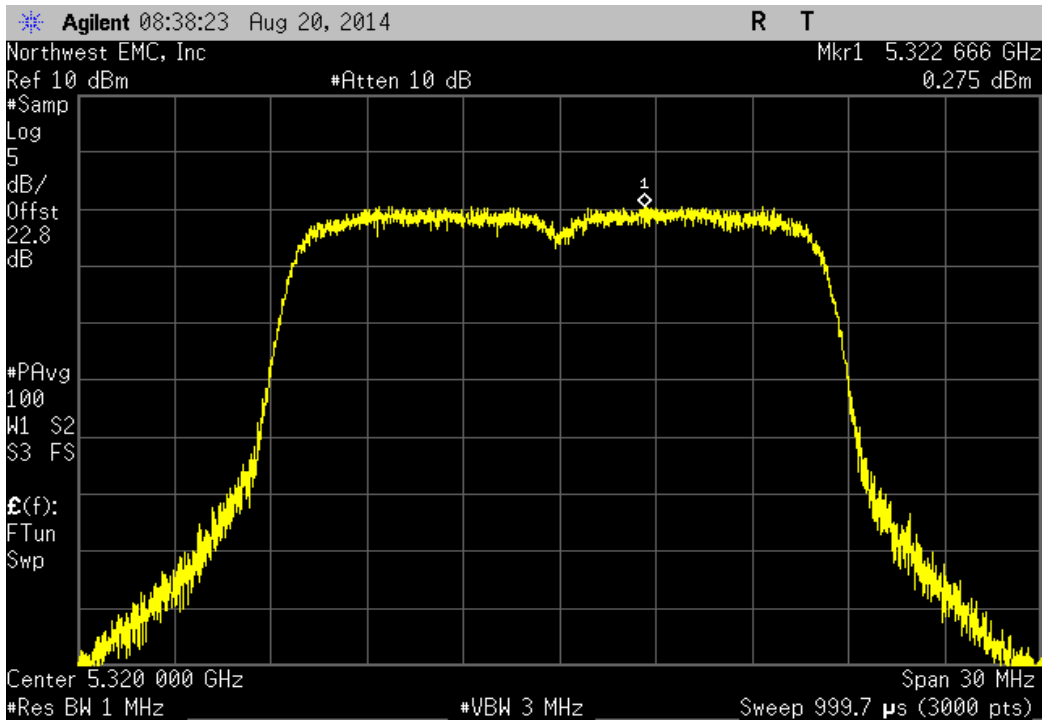
| Port 1, 802.11(a) 54 Mbps, Ch 48, High Channel 5240 MHz | | | |
|---|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -0.115 | 4 | Pass |



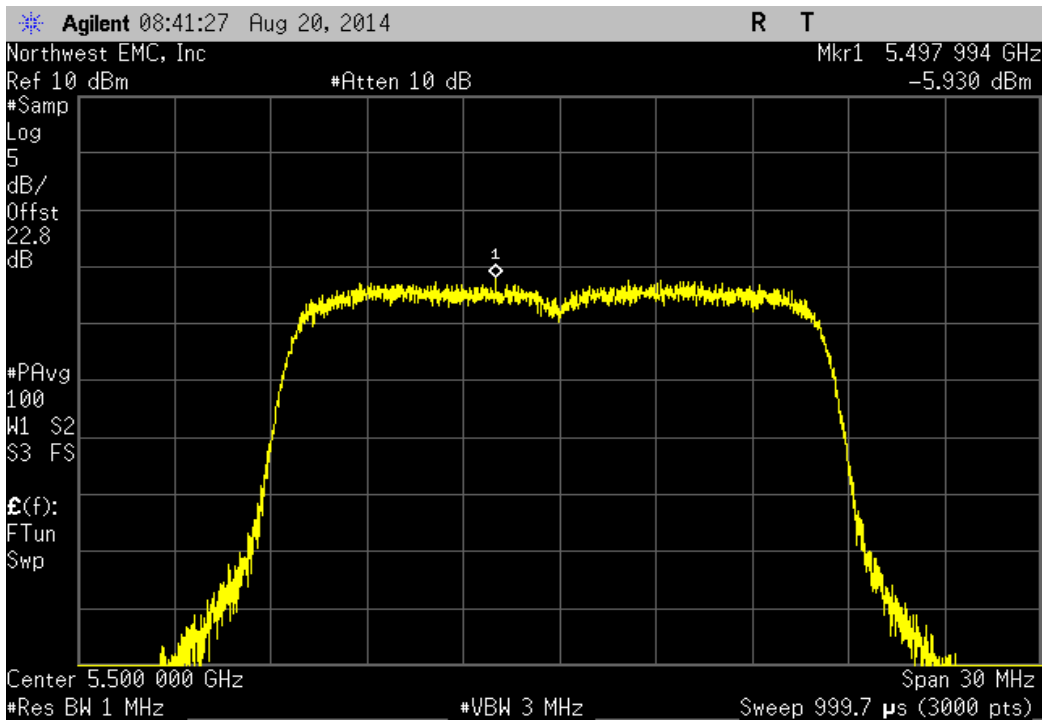
| Port 1, 802.11(a) 54 Mbps, Ch 52, Low Channel 5260 MHz | | | |
|--|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | 0.669 | 11 | Pass |



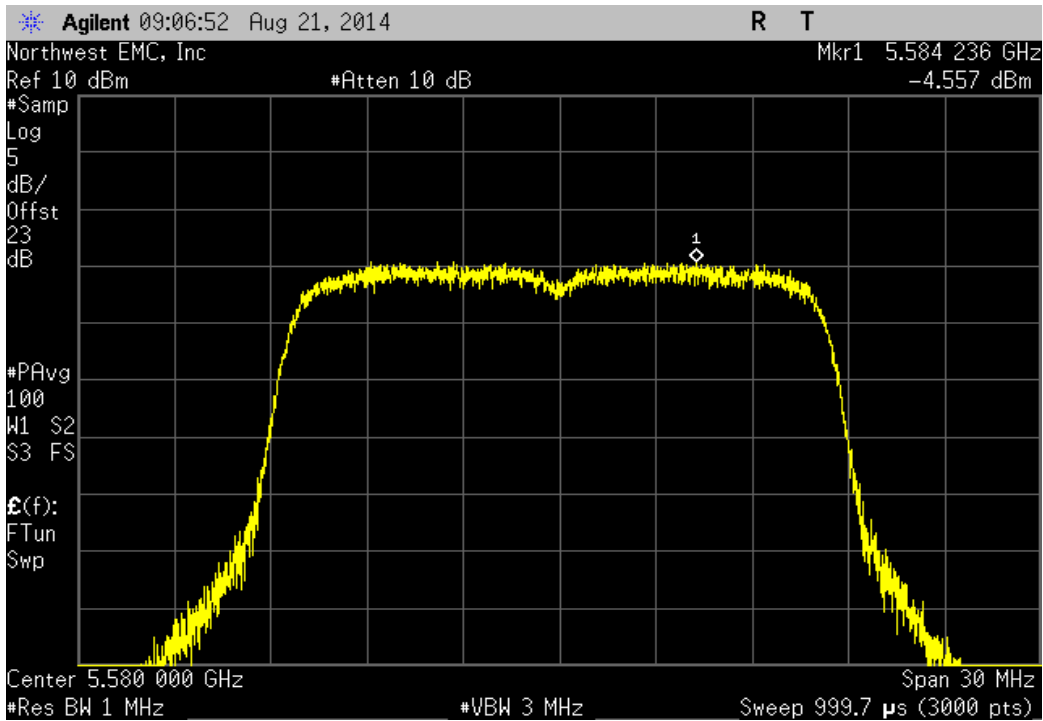
| Port 1, 802.11(a) 54 Mbps, Ch 64, High Channel 5320 MHz | | | |
|---|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | 0.275 | 11 | Pass |



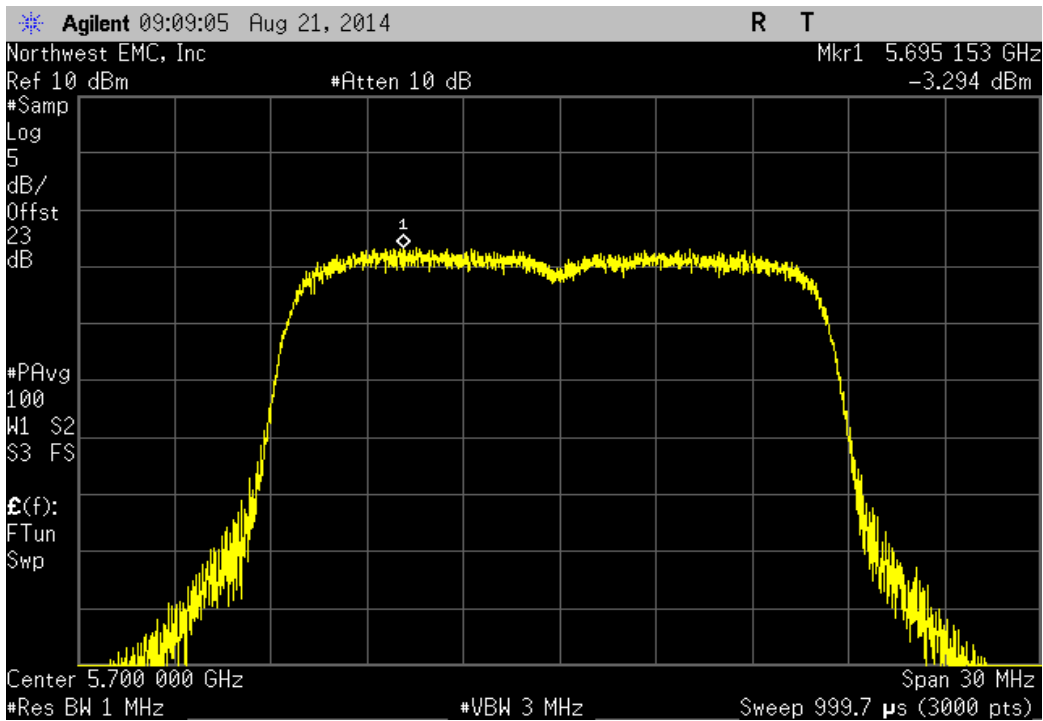
| Port 1, 802.11(a) 54 Mbps, Ch 100, Low Channel 5500 MHz | | | |
|---|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -5.93 | 11 | Pass |



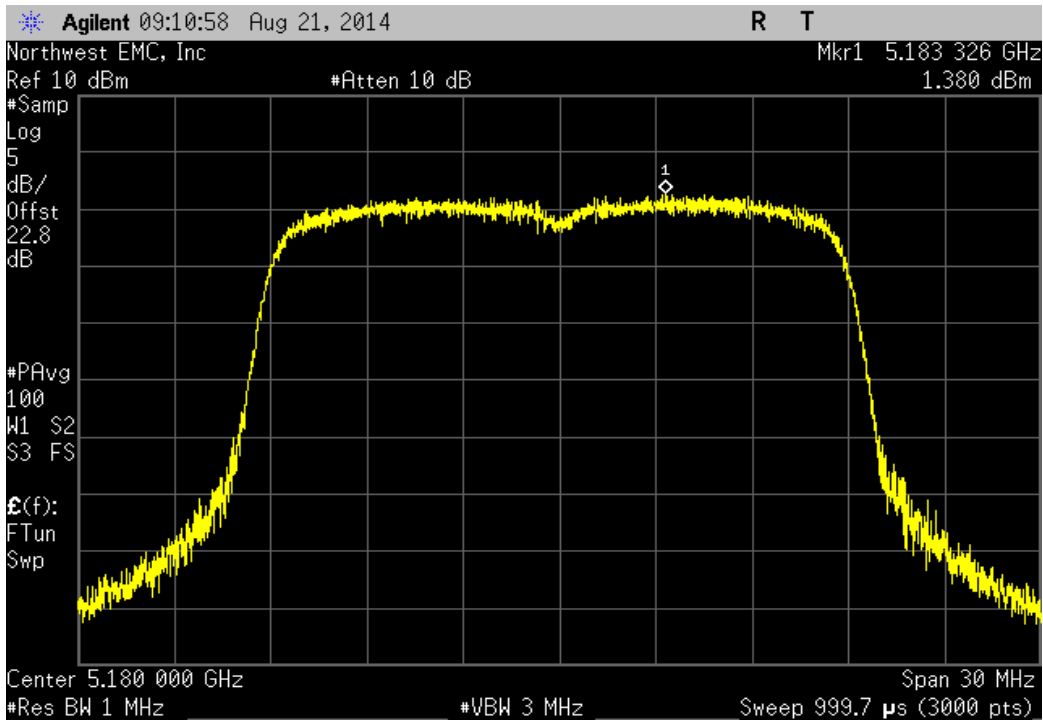
| Port 1, 802.11(a) 54 Mbps, Ch 116, Mid Channel 5580 MHz | | | |
|---|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -4.557 | 11 | Pass |



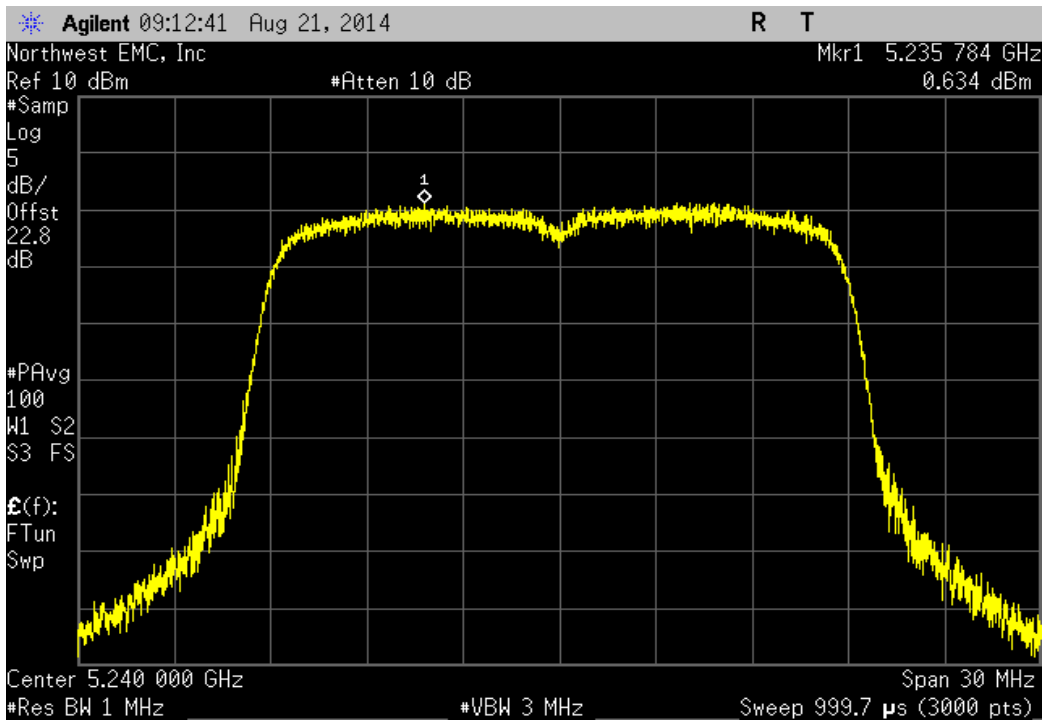
| Port 1, 802.11(a) 54 Mbps, Ch 140, High Channel 5700 MHz | | | |
|--|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -3.294 | 11 | Pass |



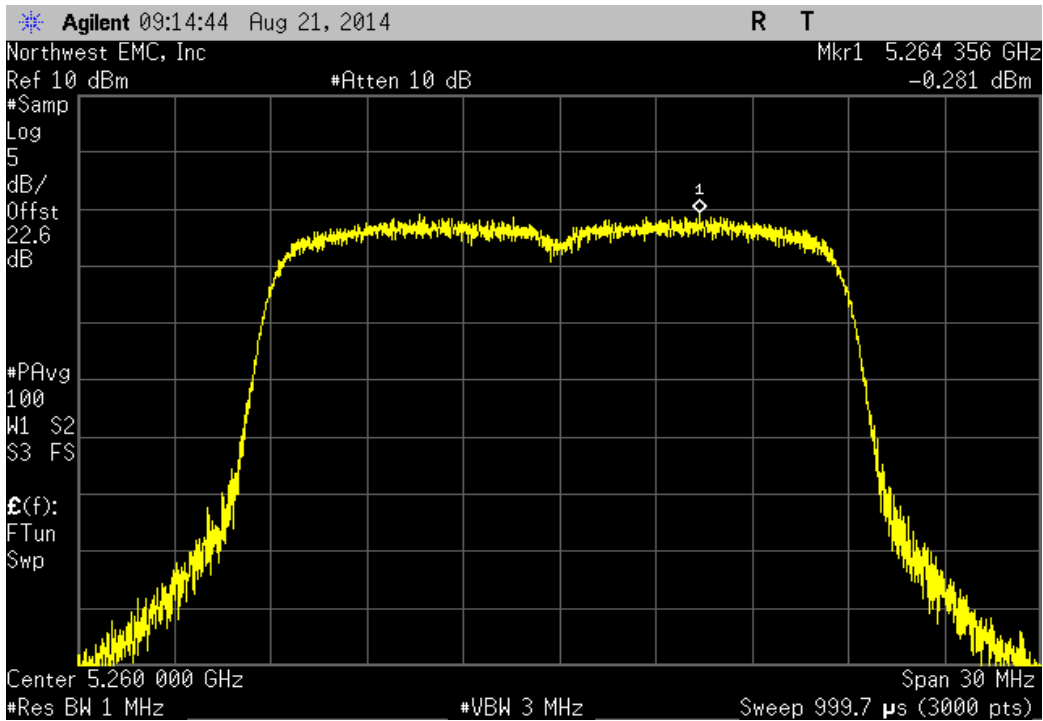
| Port 1, 802.11(n) MCS0, Ch 36, Low Channel 5180 MHz | | | |
|---|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | 1.38 | 4 | Pass |



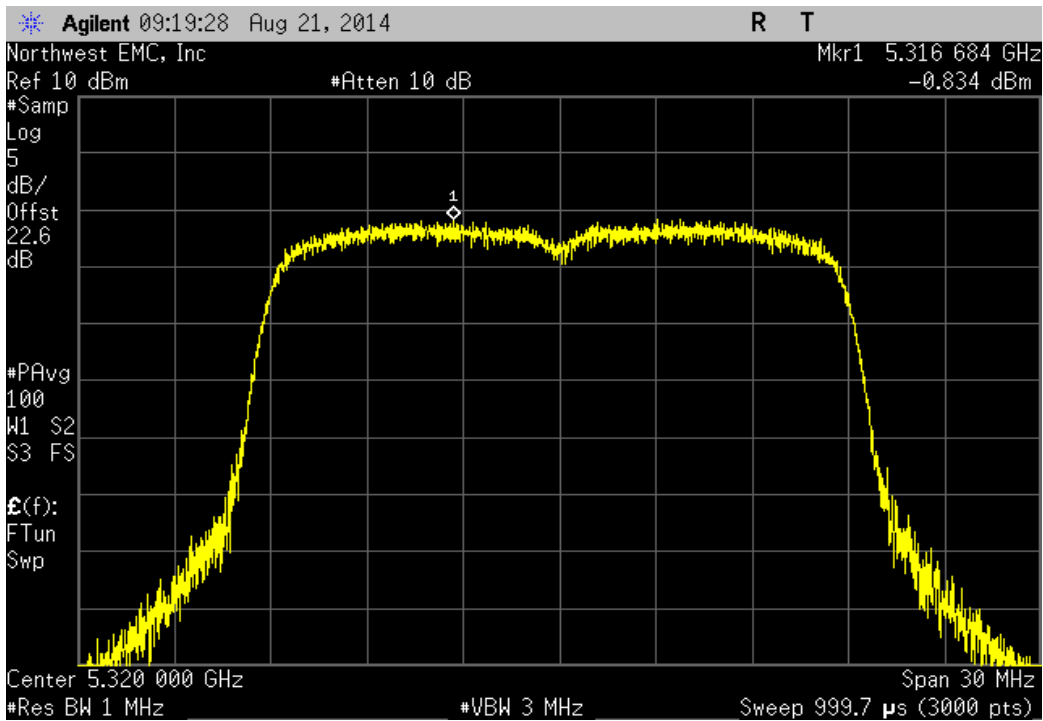
| Port 1, 802.11(n) MCS0, Ch 48, High Channel 5240 MHz | | | |
|--|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | 0.634 | 4 | Pass |



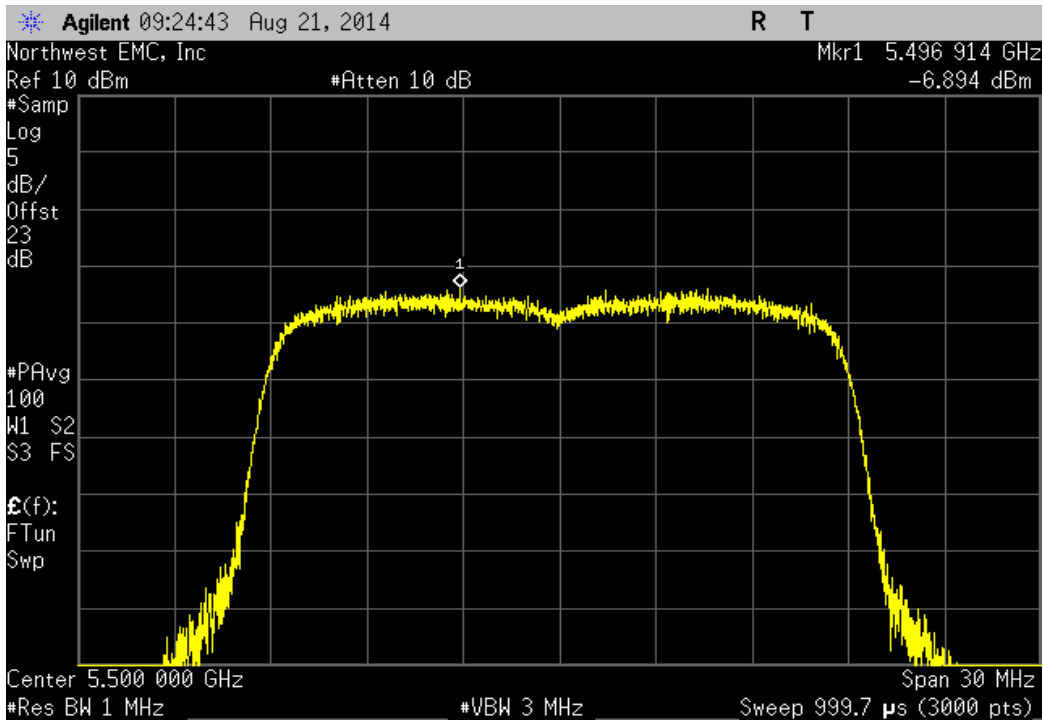
| Port 1, 802.11(n) MCS0, Ch 52, Low Channel 5260 MHz | | | |
|---|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -0.281 | 11 | Pass |



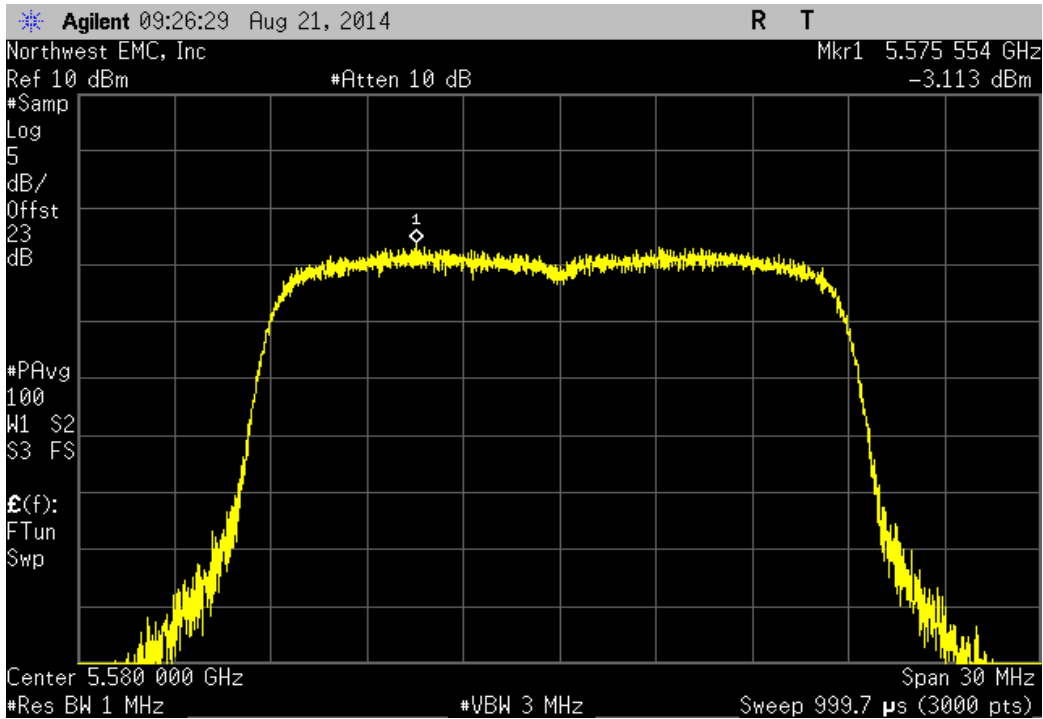
| Port 1, 802.11(n) MCS0, Ch 64, High Channel 5320 MHz | | | |
|--|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -0.834 | 11 | Pass |



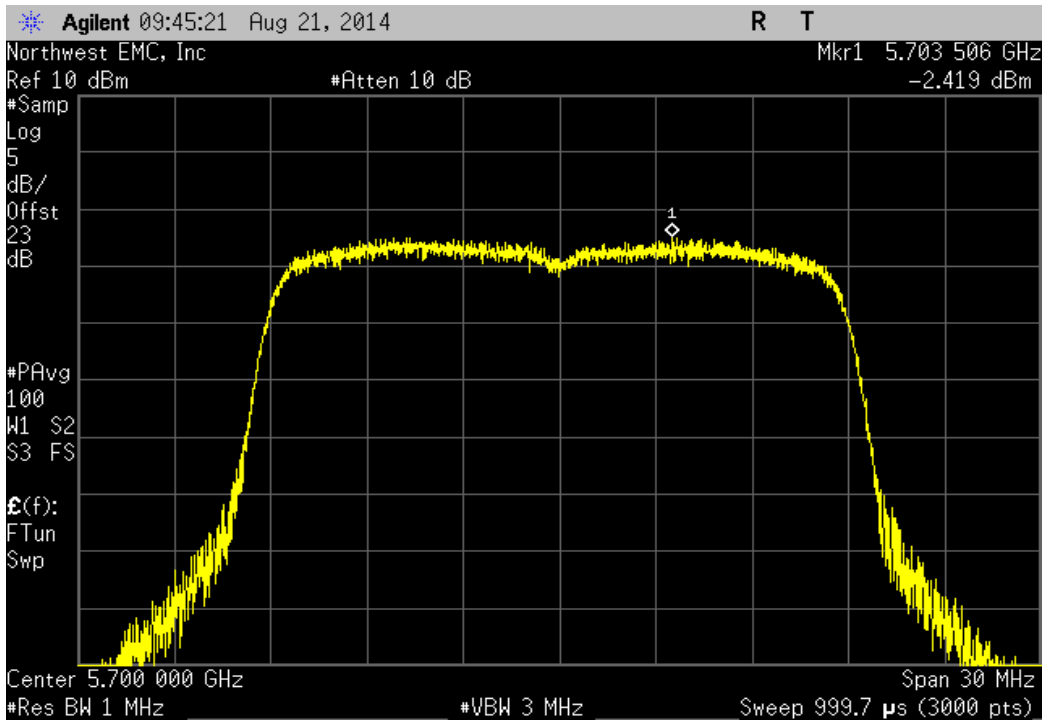
| Port 1, 802.11(n) MCS0, Ch 100, Low Channel 5500 MHz | | | |
|--|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -6.894 | 11 | Pass |



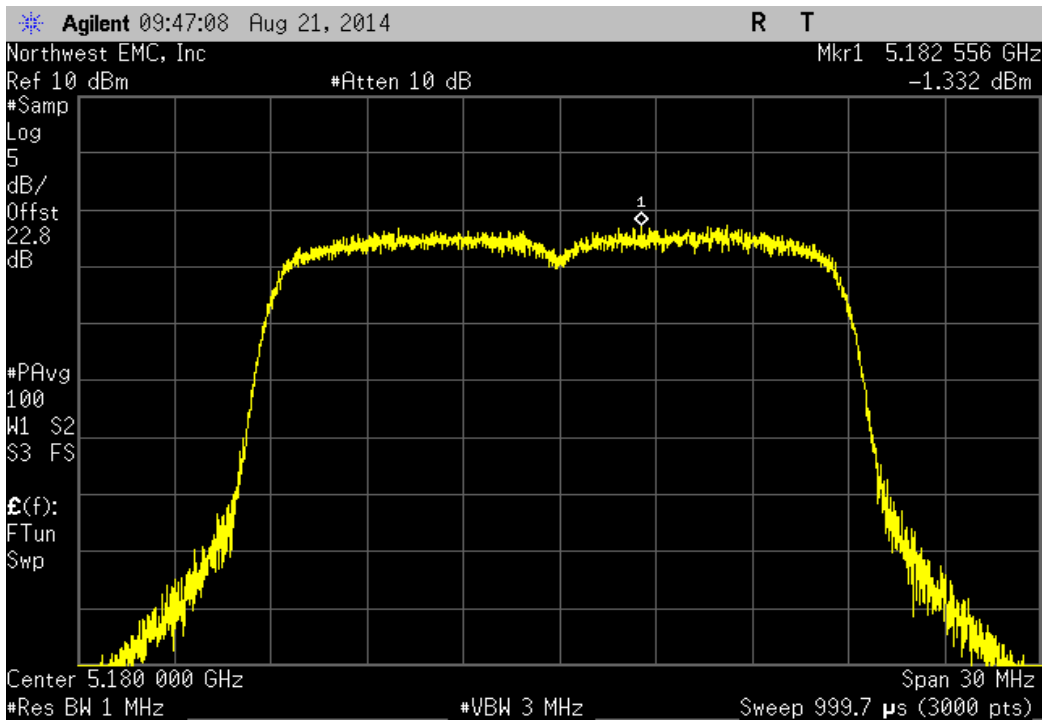
| Port 1, 802.11(n) MCS0, Ch 116, Mid Channel 5580 MHz | | | |
|--|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -3.113 | 11 | Pass |



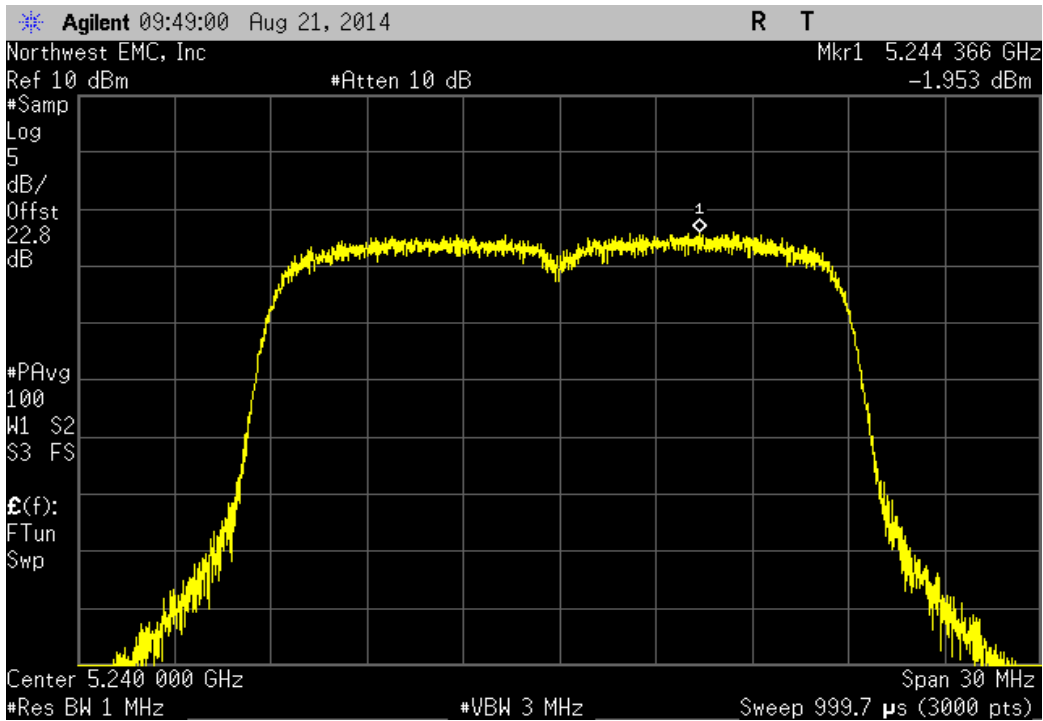
| Port 1, 802.11(n) MCS0, Ch 140, High Channel 5700 MHz | | | |
|---|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -2.419 | 11 | Pass |



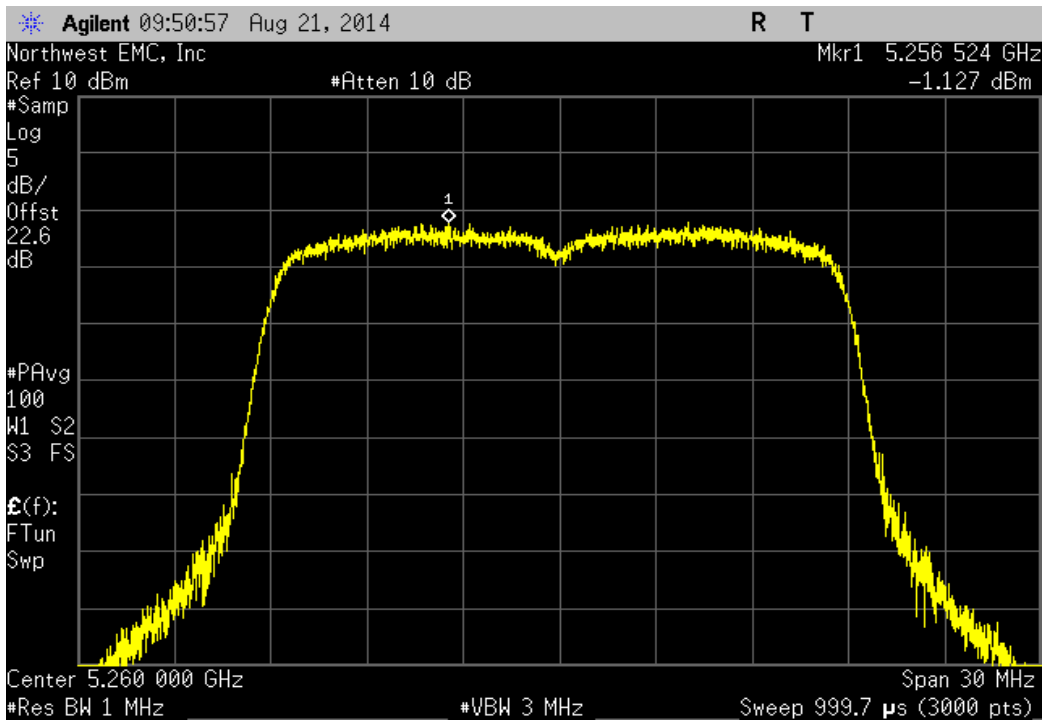
| Port 1, 802.11(n) MCS7, Ch 36, Low Channel 5180 MHz | | | |
|---|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -1.332 | 4 | Pass |



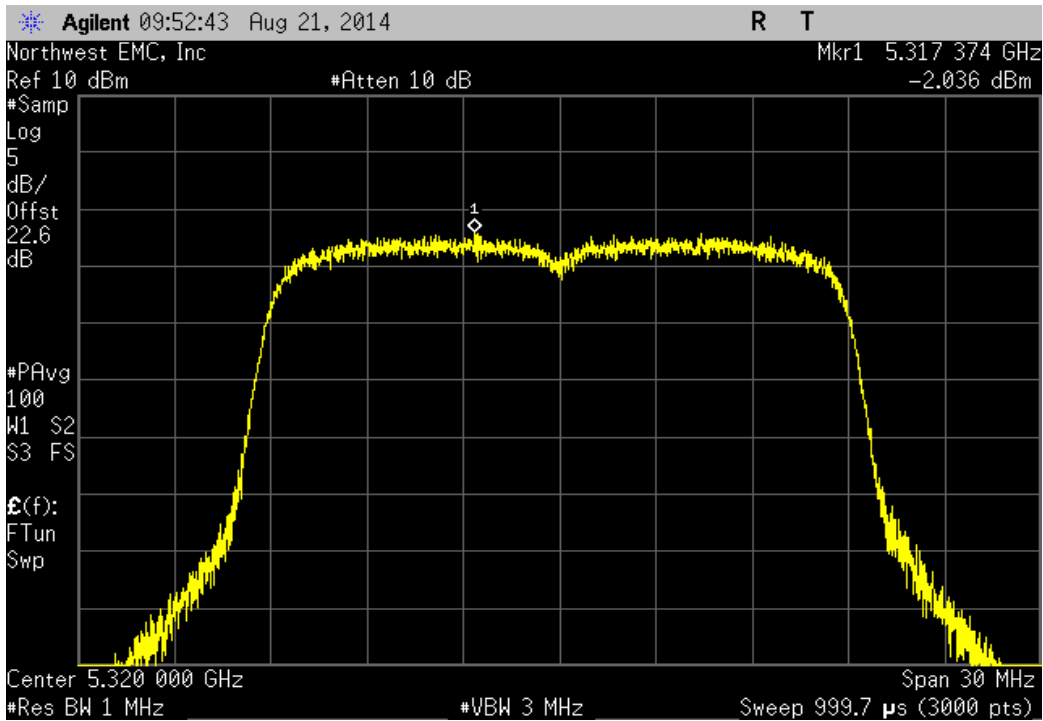
| Port 1, 802.11(n) MCS7, Ch 48, High Channel 5240 MHz | | | |
|--|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -1.953 | 4 | Pass |



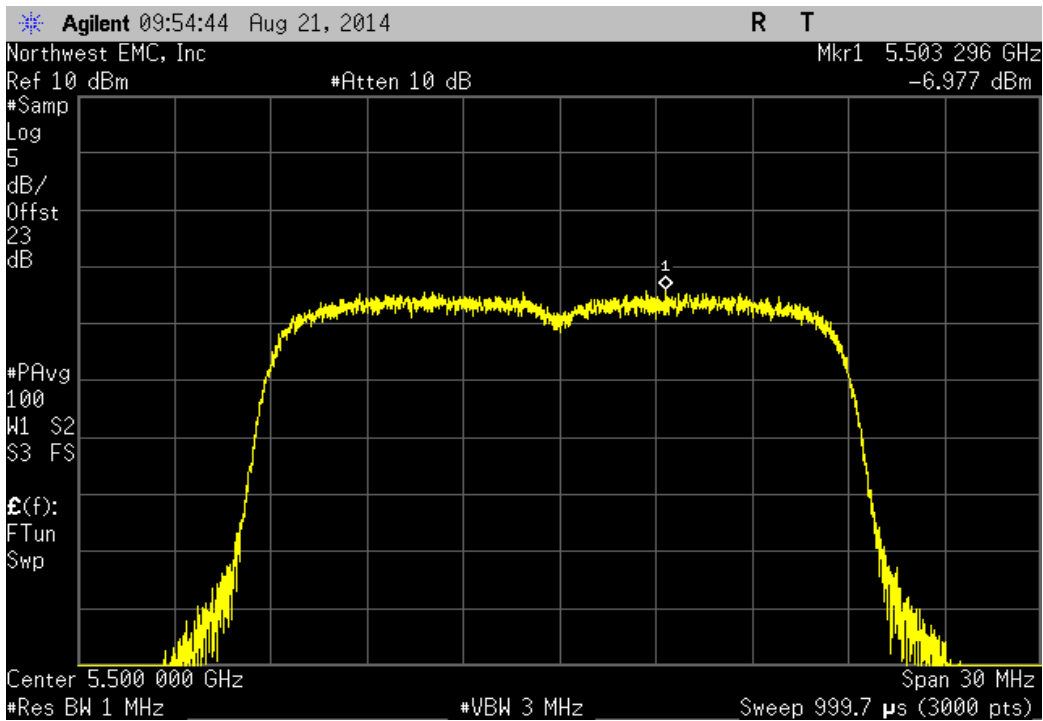
| Port 1, 802.11(n) MCS7, Ch 52, Low Channel 5260 MHz | | | |
|---|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -1.127 | 11 | Pass |



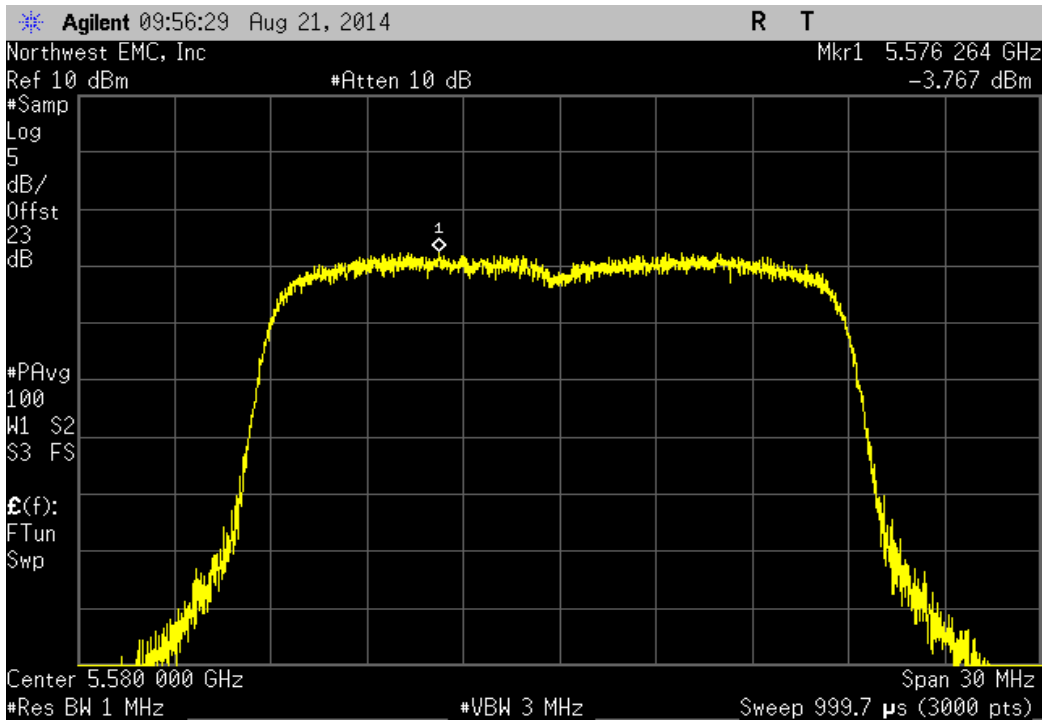
| Port 1, 802.11(n) MCS7, Ch 64, High Channel 5320 MHz | | | |
|--|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -2.036 | 11 | Pass |



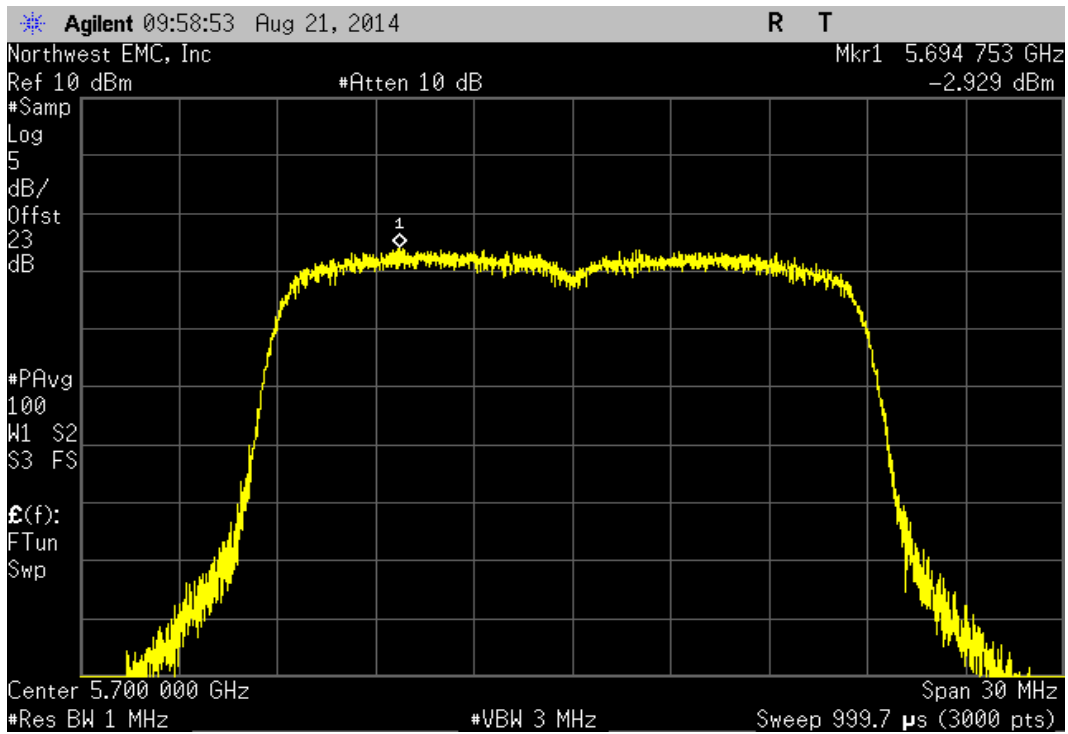
| Port 1, 802.11(n) MCS7, Ch 100, Low Channel 5500 MHz | | | |
|--|----------------------|----------------------|---------|
| | Value (dBm / MHz) | Limit (dBm / MHz) | Results |
| | -6.977 | 11 | Pass |



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



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





DUTY CYCLE

TEST DESCRIPTION

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

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

The EUT operates at 100% Duty Cycle.