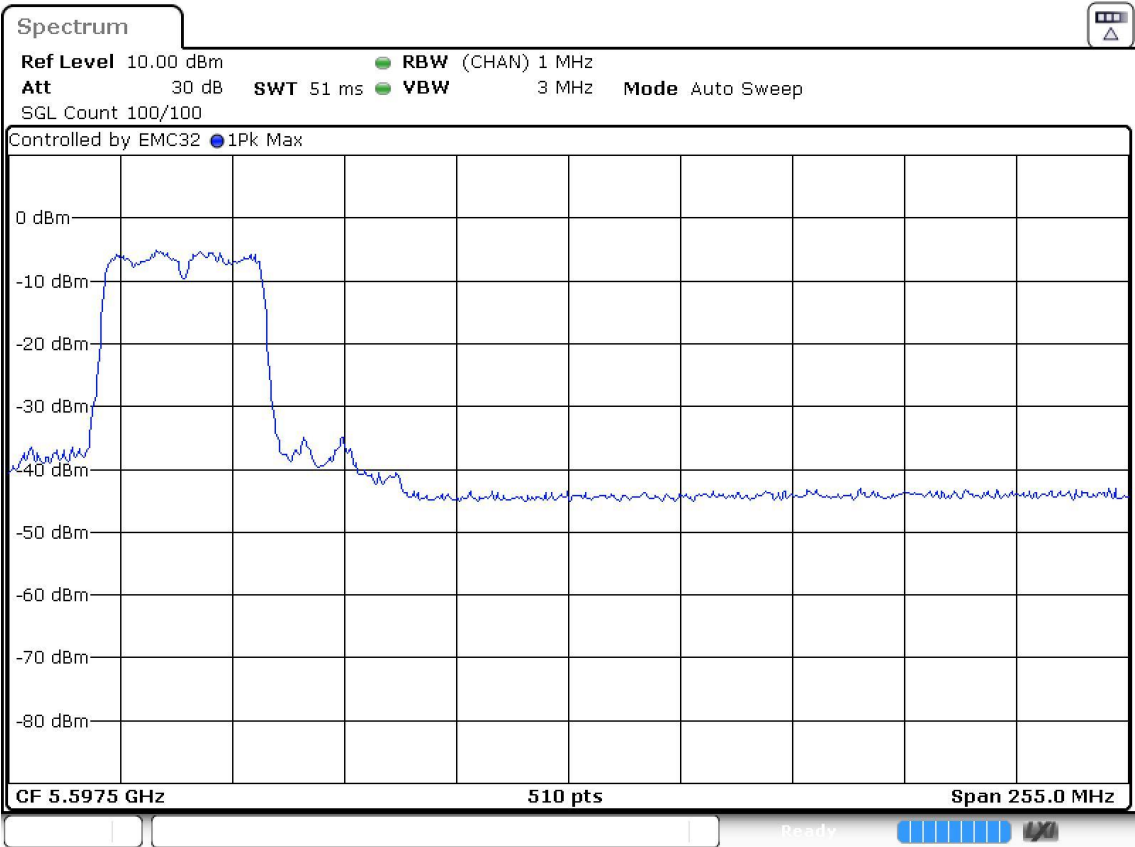
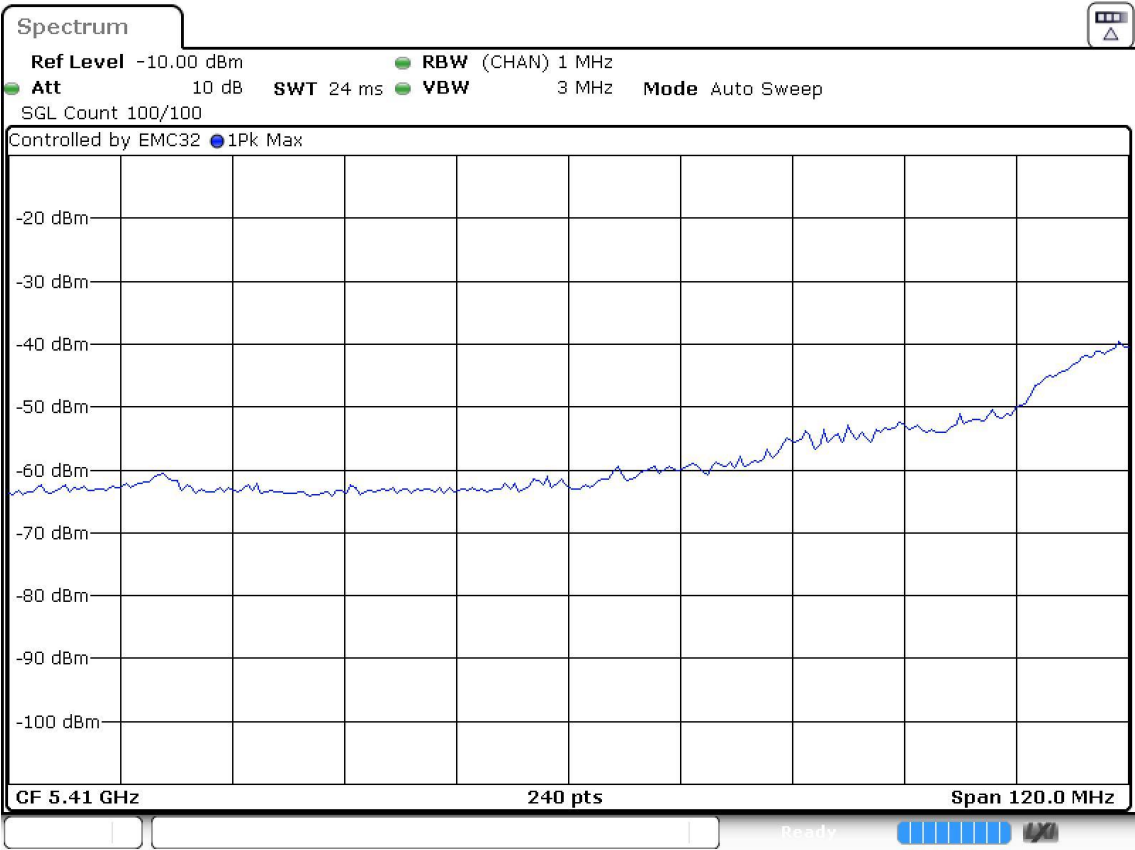
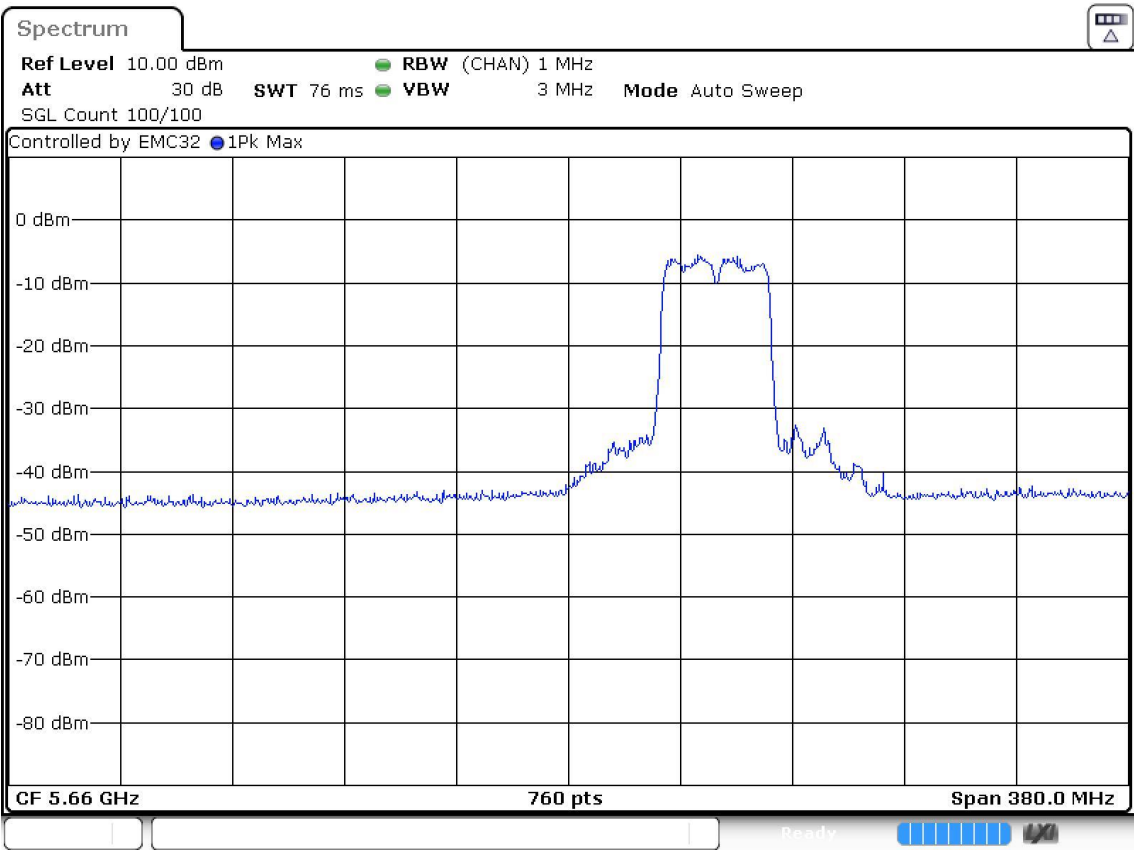
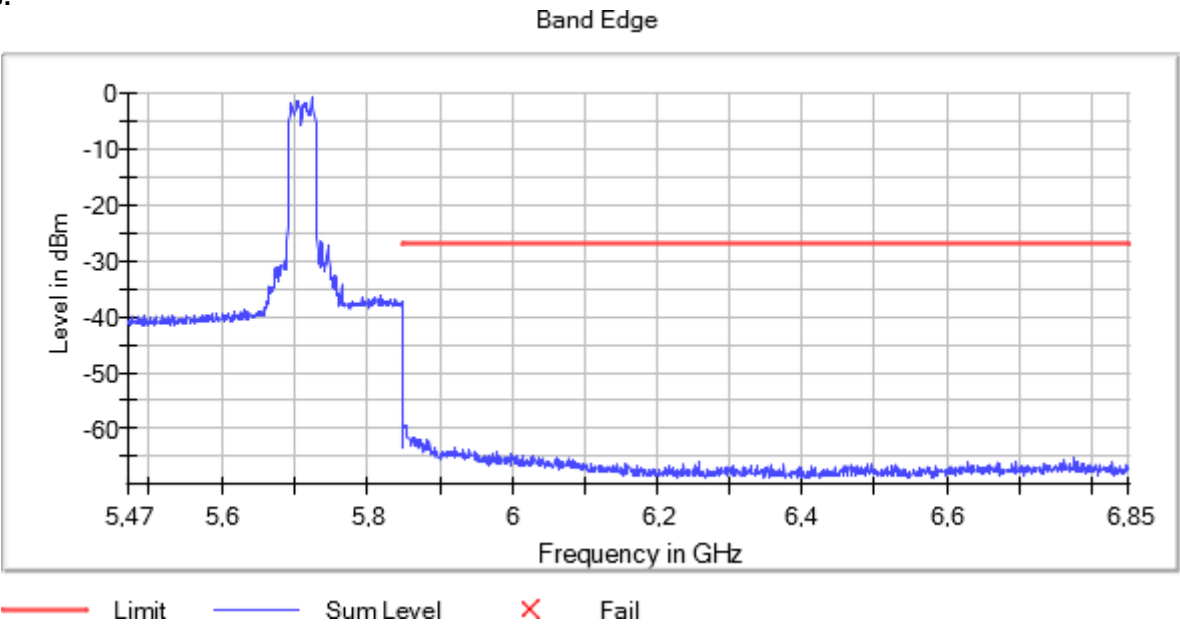
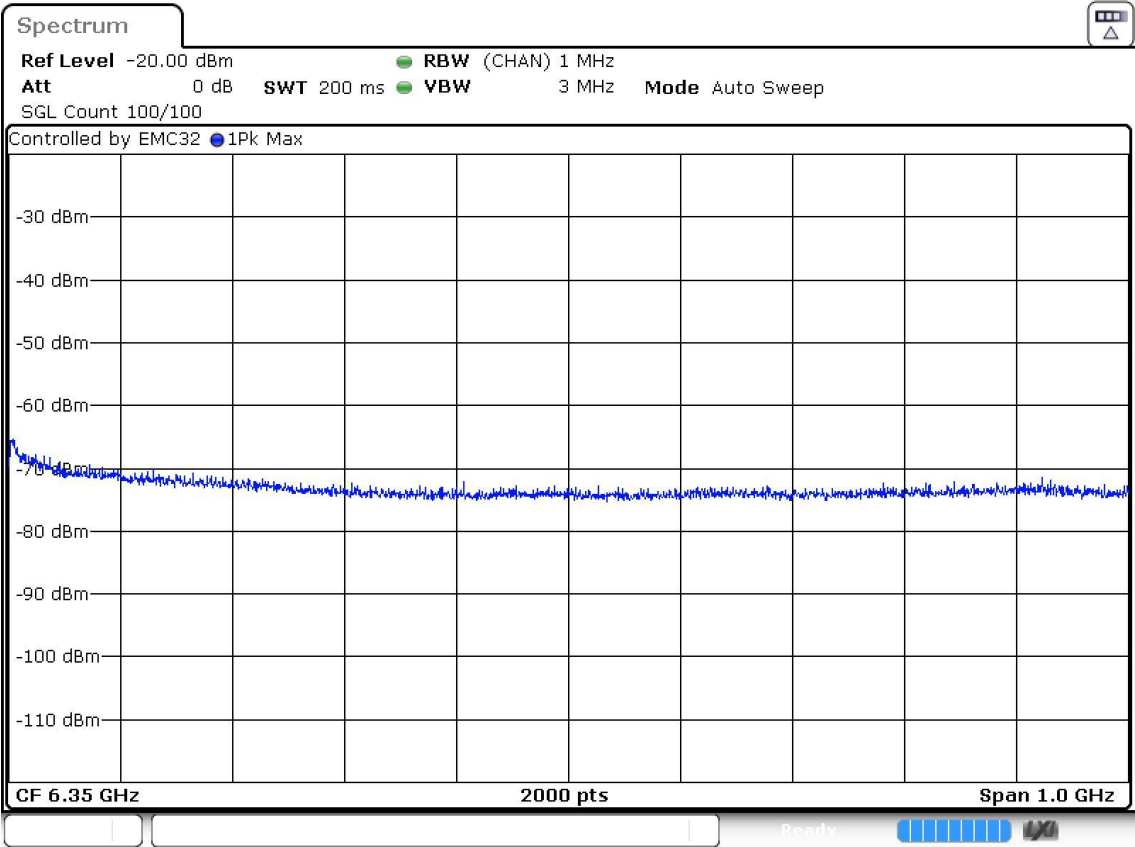




Active Port = 1
Frequency MHz = 5710.00000
Modulation = 802.11n HT40 (OFDM MCS0) MIMO Mode = SISO

Images:





Modulation: 802.11a (OFDM 6 Mbit/s)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Freq (MHz)	Lvl (dBm)
1	5500.00000	5468.750000	-45.96
1	5500.00000	5469.250000	-46.07
1	5500.00000	5467.750000	-46.22
1	5500.00000	5469.750000	-46.33
1	5500.00000	5466.750000	-46.90
1	5500.00000	5467.250000	-47.21
1	5500.00000	5468.250000	-47.35
1	5500.00000	5466.250000	-48.37
1	5500.00000	5465.750000	-48.39
1	5500.00000	5465.250000	-48.70
1	5500.00000	5464.750000	-48.81
1	5500.00000	5463.750000	-49.16
1	5500.00000	5464.250000	-49.21
1	5500.00000	5463.250000	-50.45
1	5500.00000	5462.250000	-50.63
1	5720.00000	5872.250000	-55.22
1	5720.00000	5867.750000	-57.09
1	5720.00000	5862.750000	-57.15
1	5720.00000	5861.750000	-57.30
1	5720.00000	5876.250000	-57.37
1	5720.00000	5864.750000	-57.39
1	5720.00000	5872.750000	-57.41
1	5720.00000	5867.250000	-57.51
1	5720.00000	5868.750000	-57.53
1	5720.00000	5873.250000	-57.54
1	5720.00000	5868.250000	-57.58
1	5720.00000	5871.250000	-57.62
1	5720.00000	5857.750000	-57.63
1	5720.00000	5861.250000	-57.64
1	5720.00000	5875.750000	-57.67

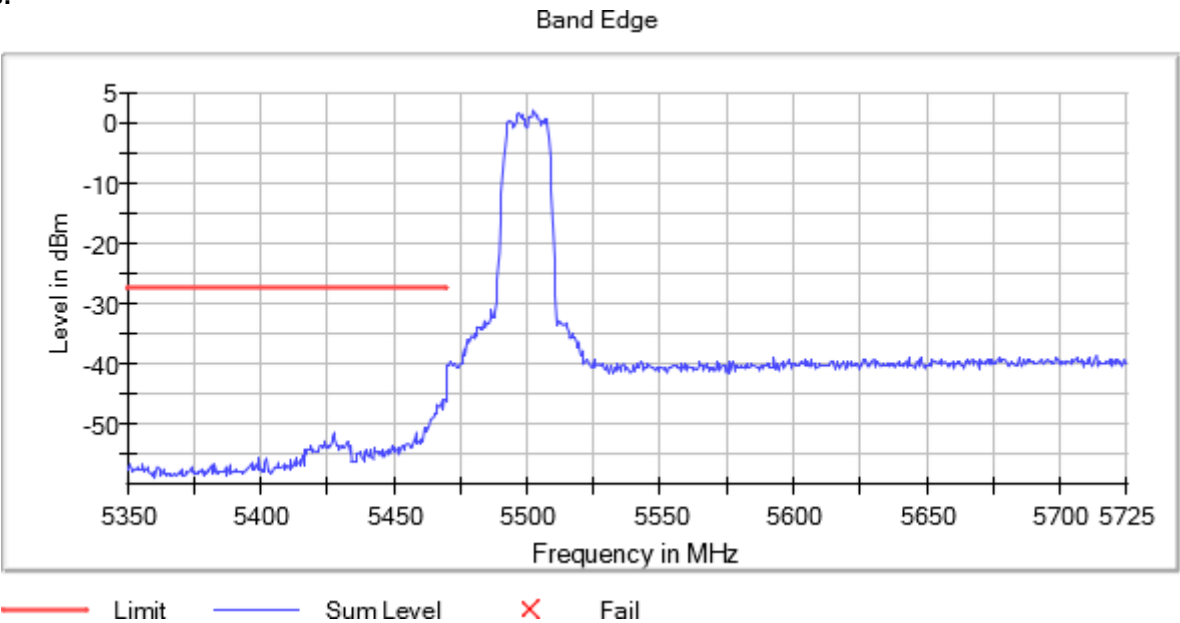
Verdict

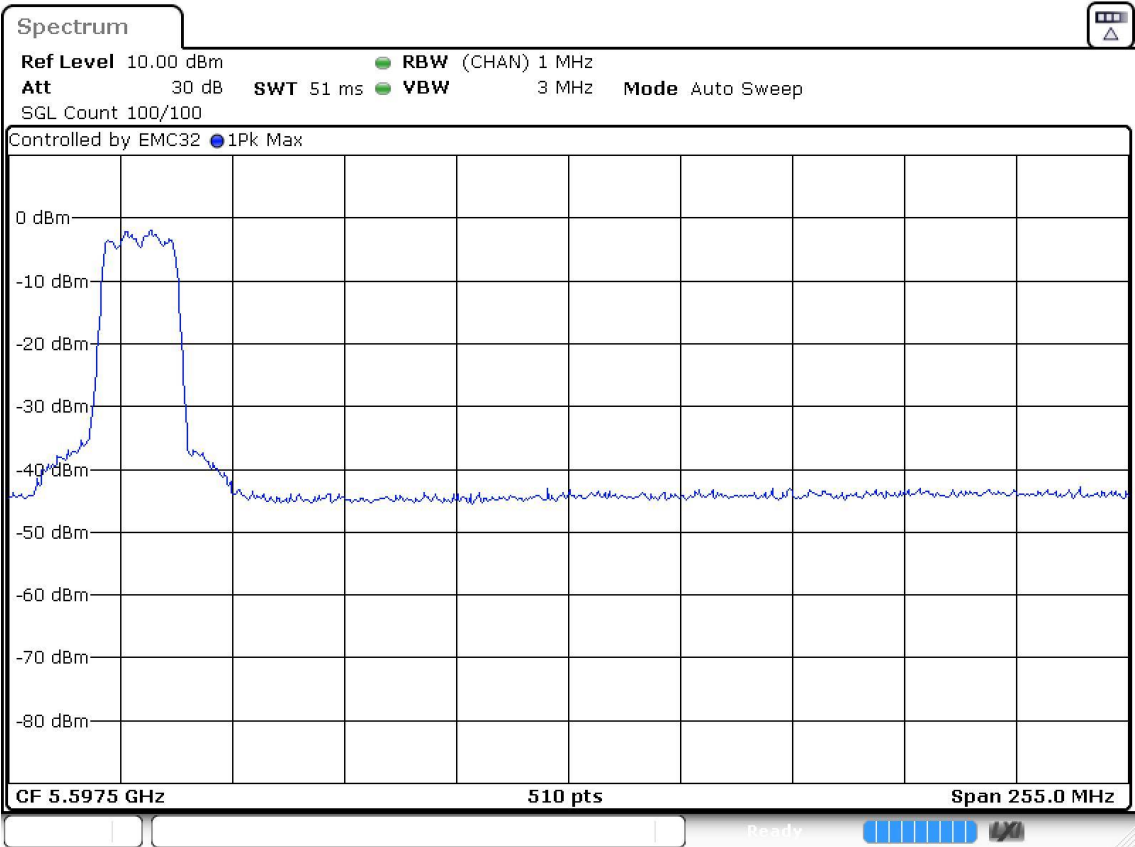
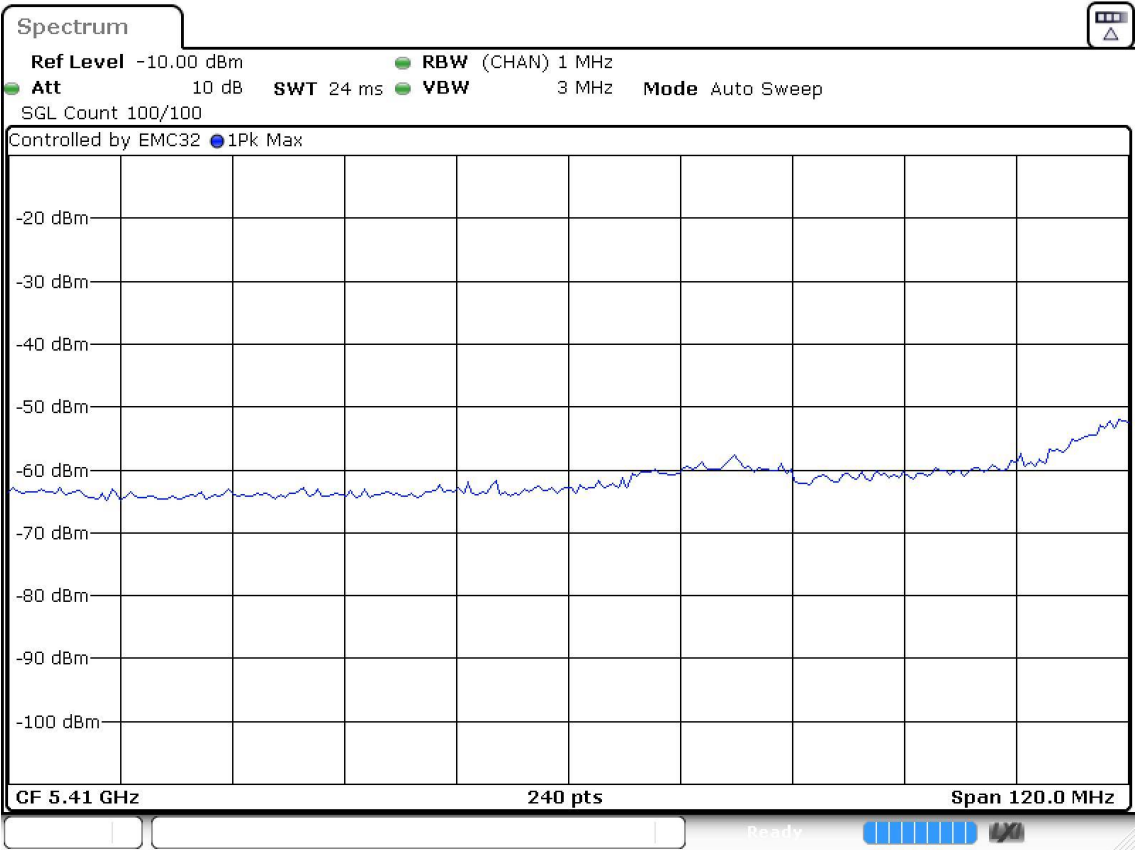
Pass

Attachments

Active Port = 1 Frequency MHz = 5500.00000
Modulation = 802.11a (OFDM 6 Mbit/s) MIMO Mode = SISO

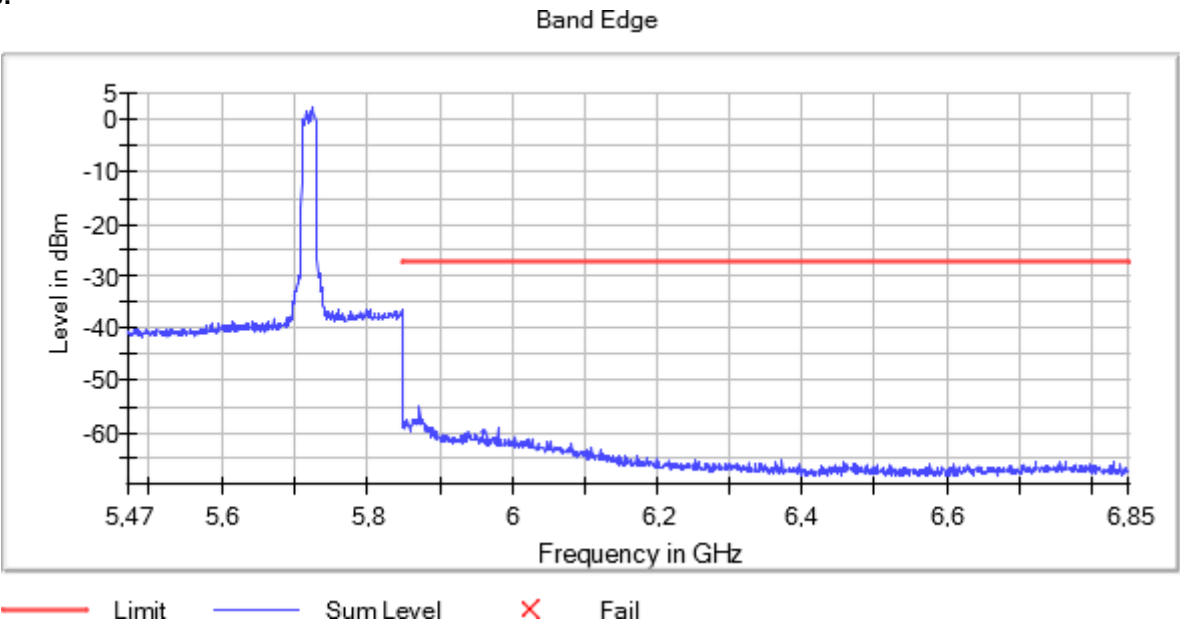
Images:

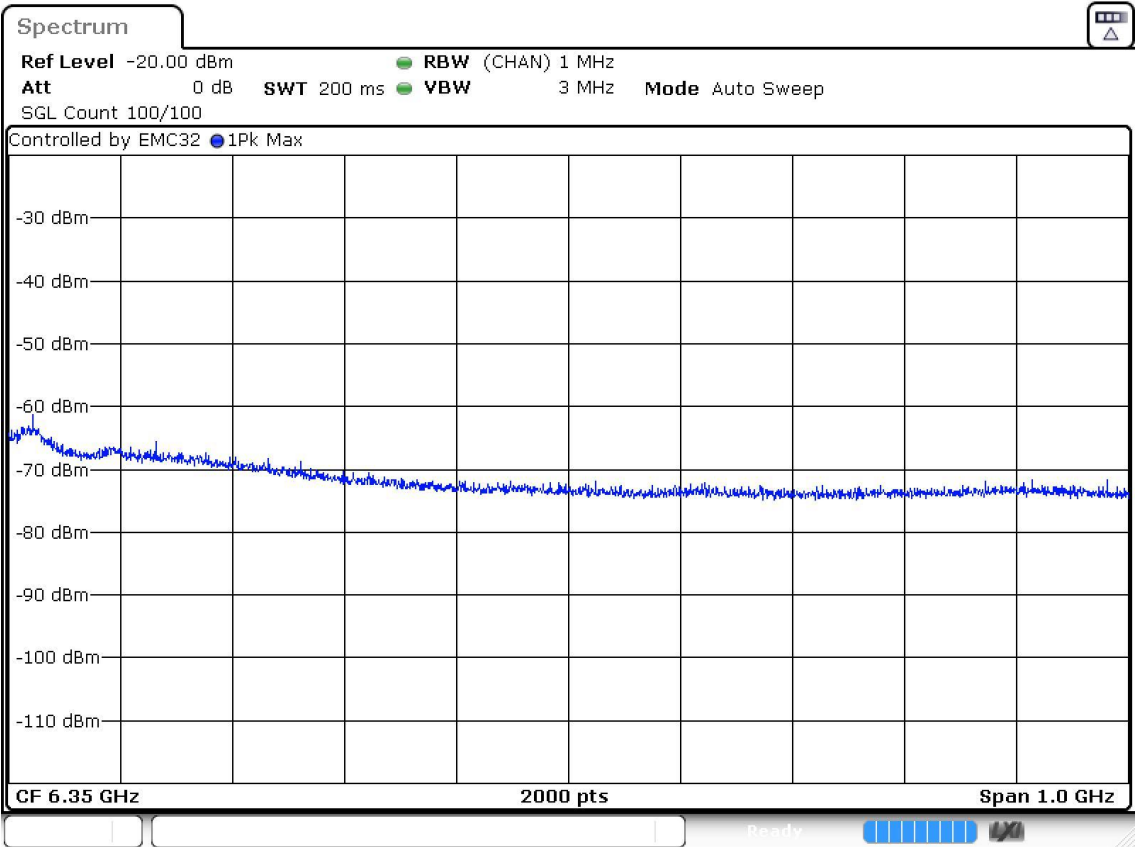
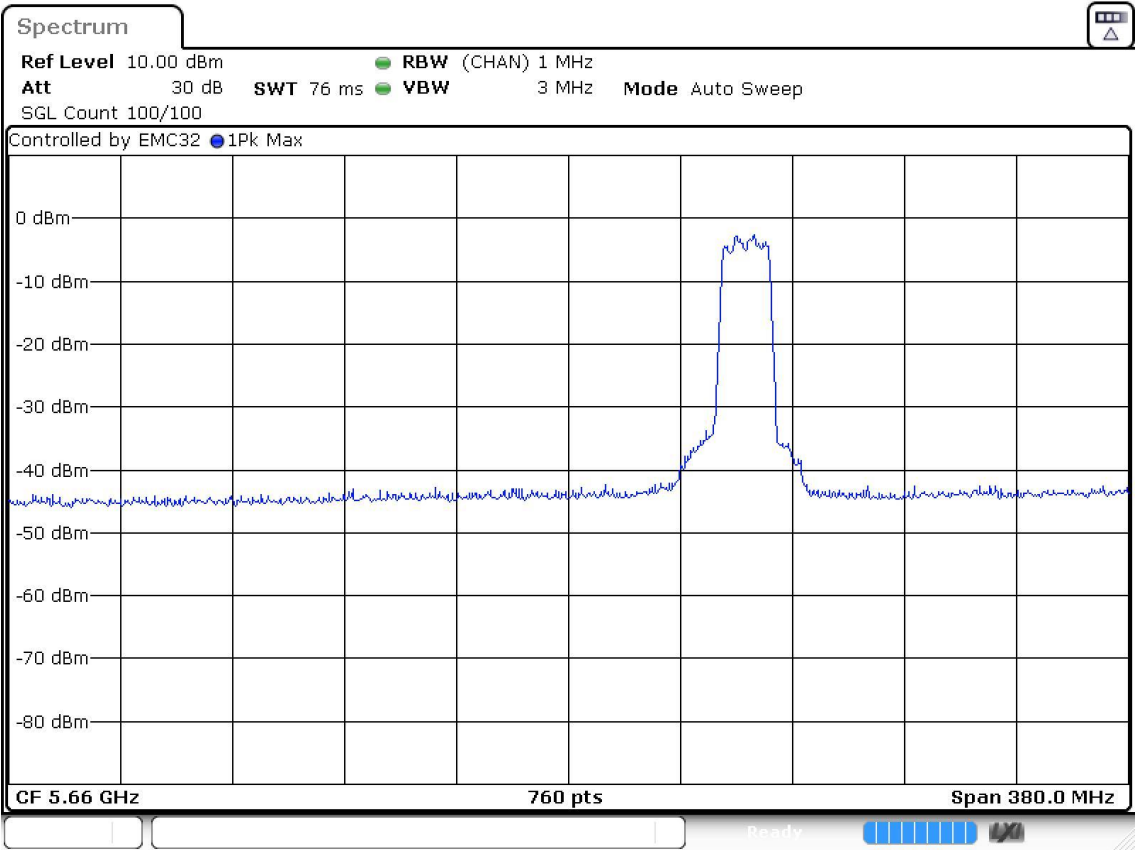




Active Port = 1 Frequency MHz = 5720.00000
Modulation = 802.11a (OFDM 6 Mbit/s) MIMO Mode = SISO

Images:





Modulation: 802.11ac VHT20 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Freq (MHz)	Lvl (dBm)
1	5500.00000	5466.250000	-49.7
1	5500.00000	5468.750000	-49.8
1	5500.00000	5464.250000	-50.4
1	5500.00000	5469.750000	-50.4
1	5500.00000	5469.250000	-50.4
1	5500.00000	5468.250000	-50.5
1	5500.00000	5466.750000	-50.5
1	5500.00000	5467.750000	-50.6
1	5500.00000	5467.250000	-50.7
1	5500.00000	5465.750000	-51.1
1	5500.00000	5465.250000	-51.2
1	5500.00000	5464.750000	-51.3
1	5500.00000	5463.750000	-51.5
1	5500.00000	5463.250000	-52.0
1	5500.00000	5462.750000	-52.5
1	5720.00000	5867.750000	-62.0
1	5720.00000	5870.750000	-62.0
1	5720.00000	5875.750000	-62.0
1	5720.00000	5869.250000	-62.2
1	5720.00000	5874.750000	-62.2
1	5720.00000	5872.250000	-62.3
1	5720.00000	5873.750000	-62.3
1	5720.00000	5871.250000	-62.3
1	5720.00000	5866.750000	-62.4
1	5720.00000	5873.250000	-62.4
1	5720.00000	5851.250000	-62.4
1	5720.00000	5871.750000	-62.4
1	5720.00000	5861.750000	-62.5
1	5720.00000	5862.250000	-62.6
1	5720.00000	5851.750000	-62.6

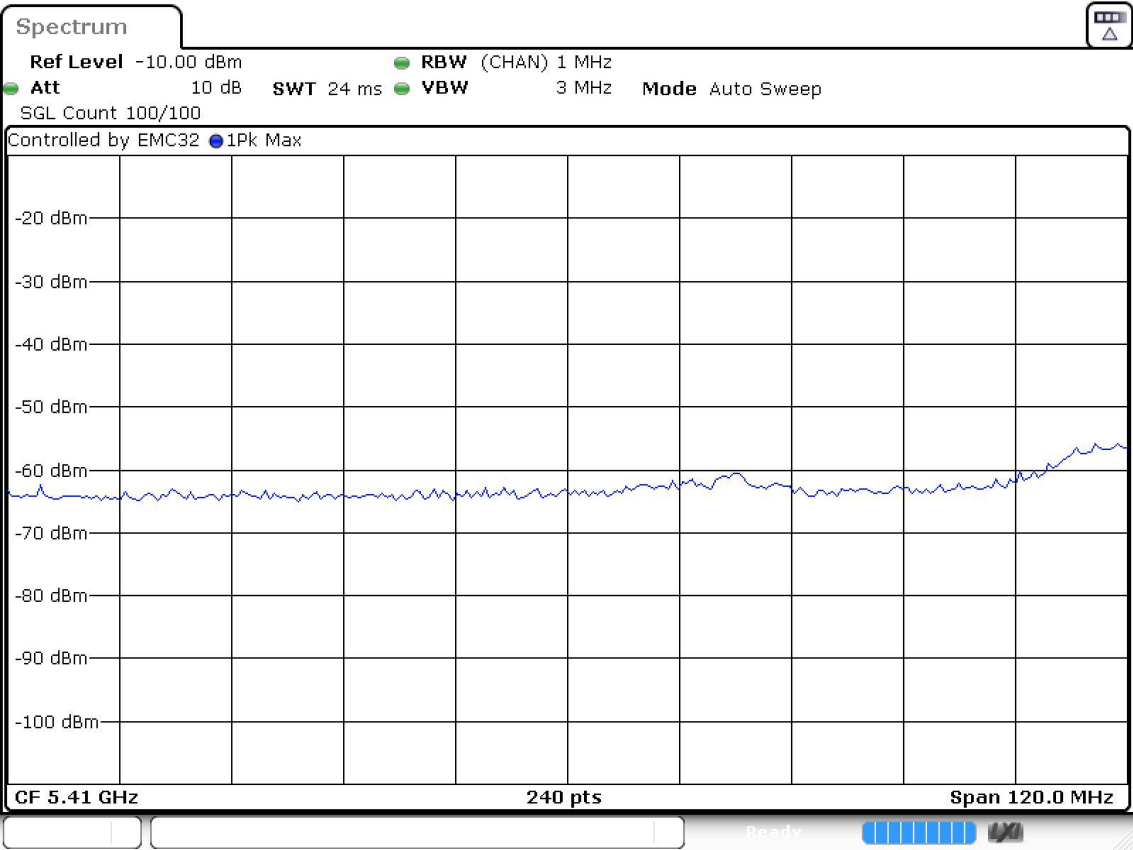
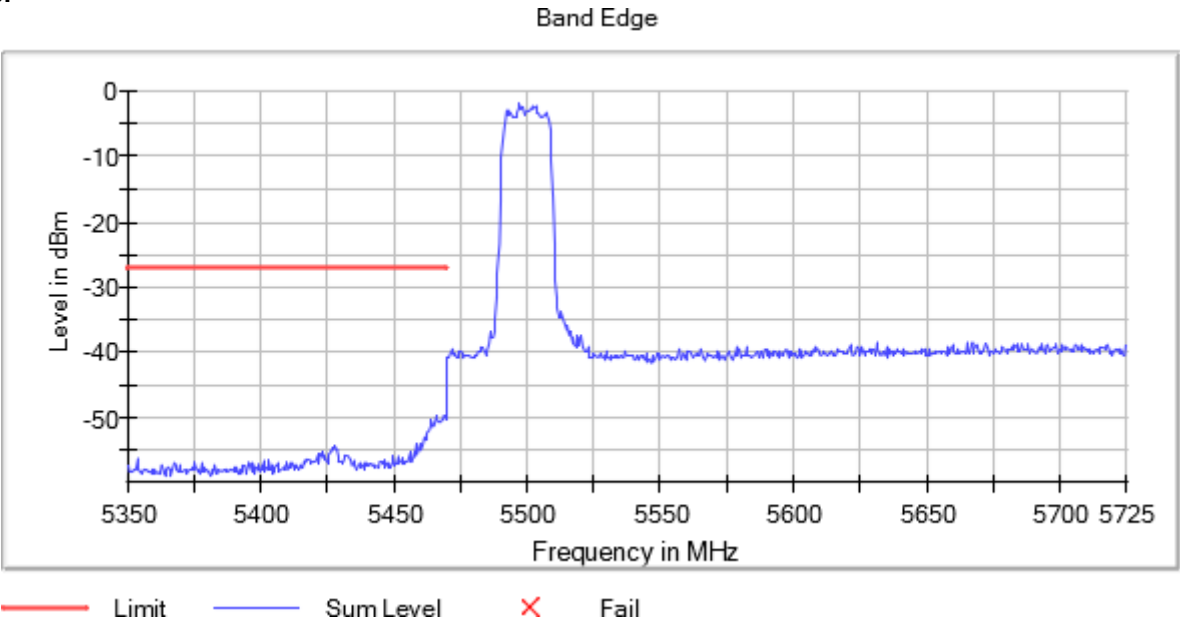
Verdict

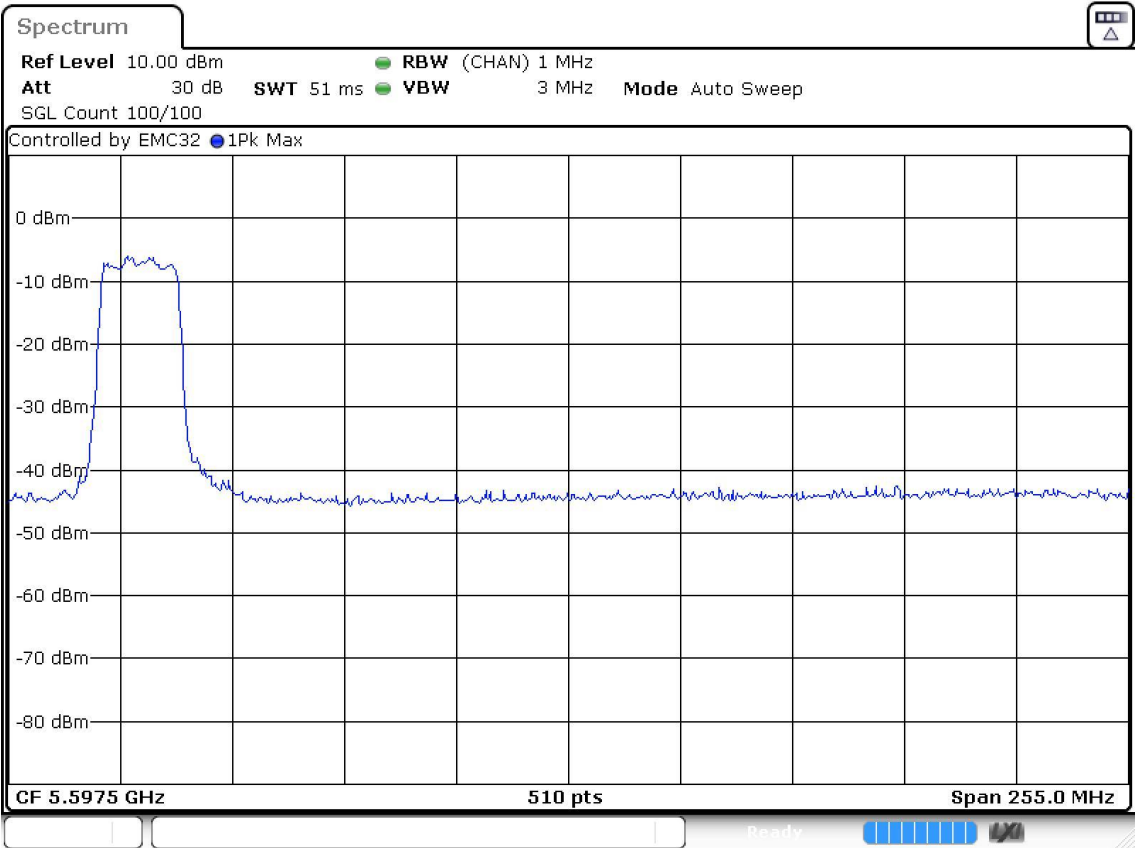
Pass

Attachments

Active Port = 1
Frequency MHz = 5500.00000
Modulation = 802.11ac VHT20 (OFDM MCS0) MIMO Mode = SISO

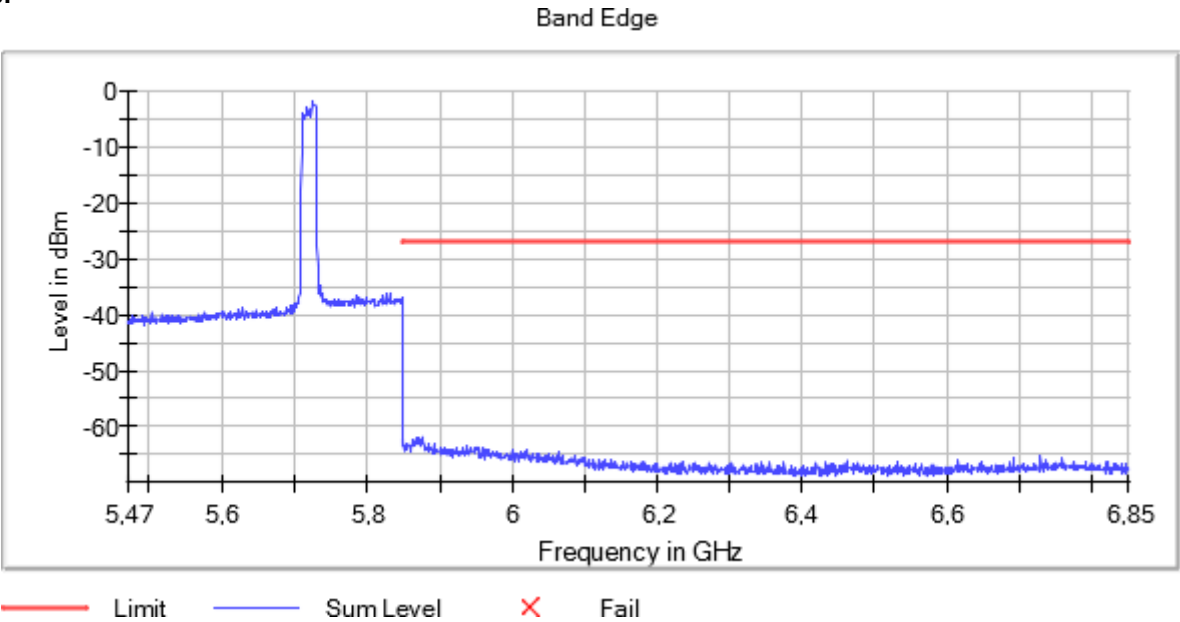
Images:

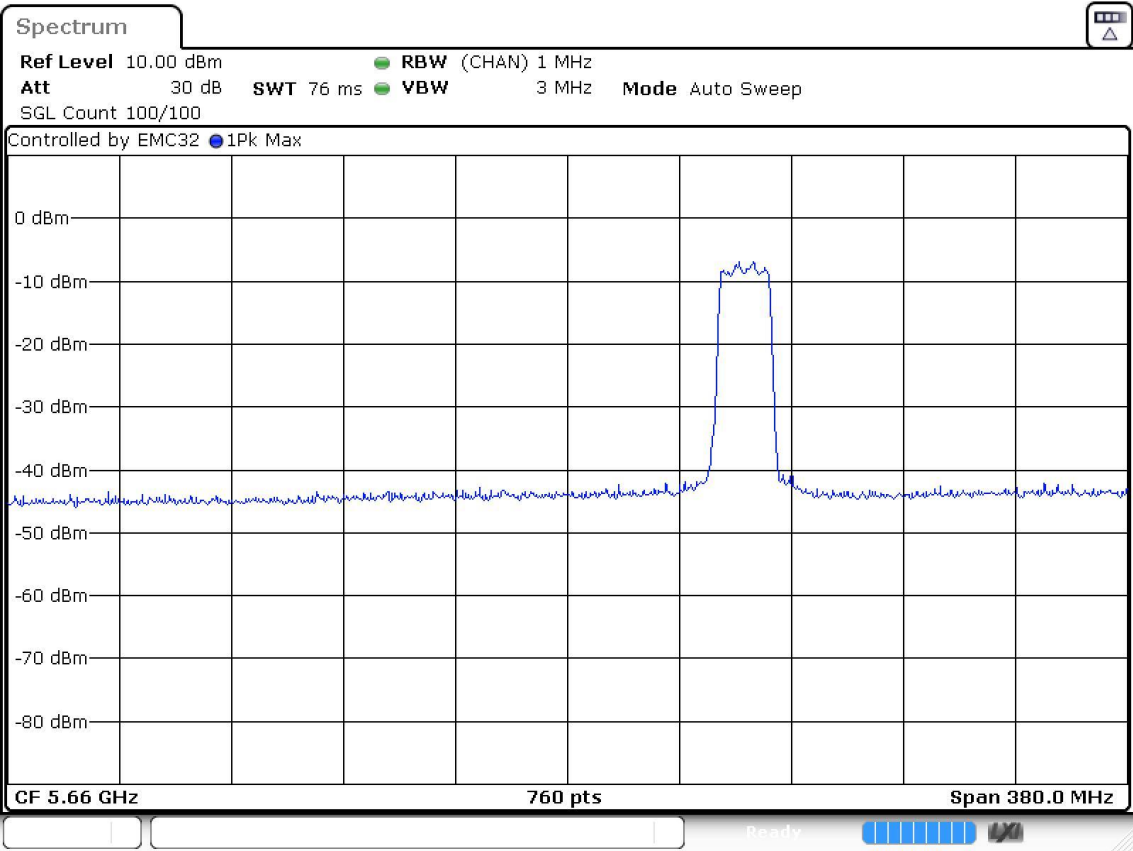


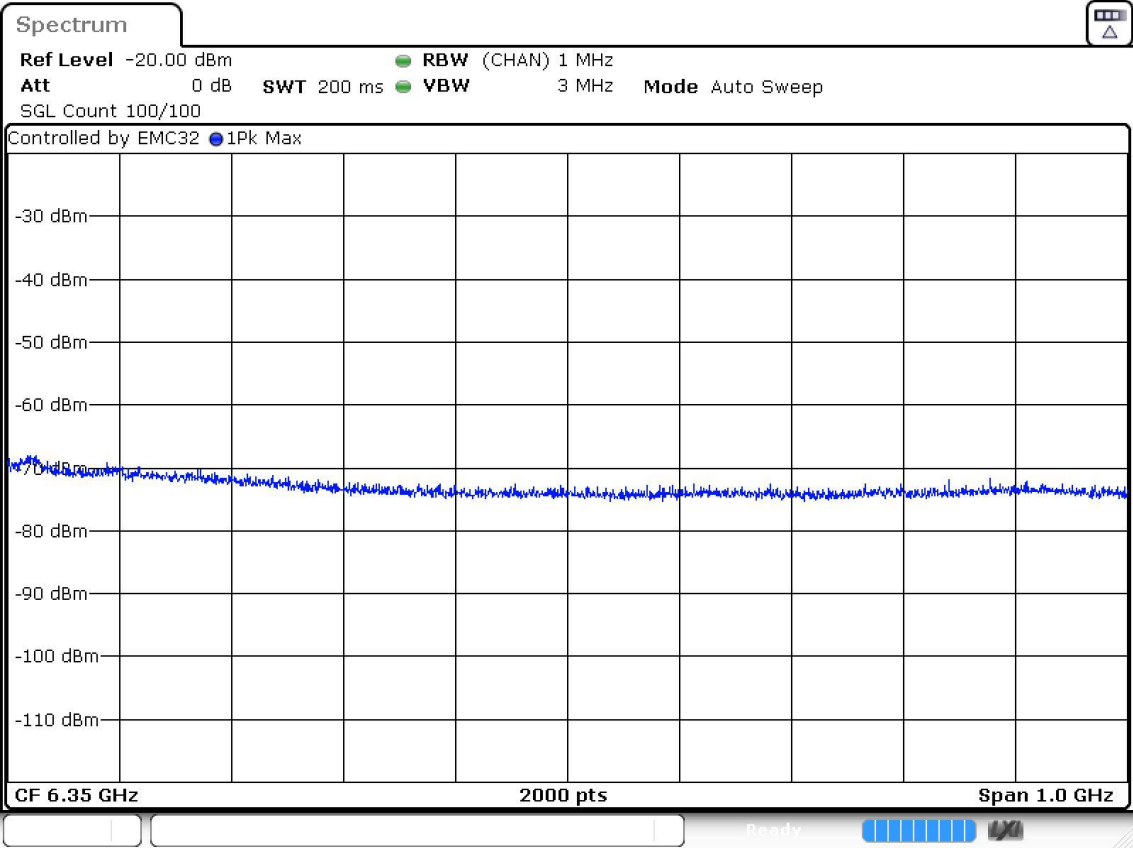


Active Port = 1 Frequency MHz = 5720.00000
Modulation = 802.11ac VHT20 (OFDM MCS0) MIMO Mode = SISO

Images:







Modulation: 802.11ac VHT40 (OFDM MCS0)

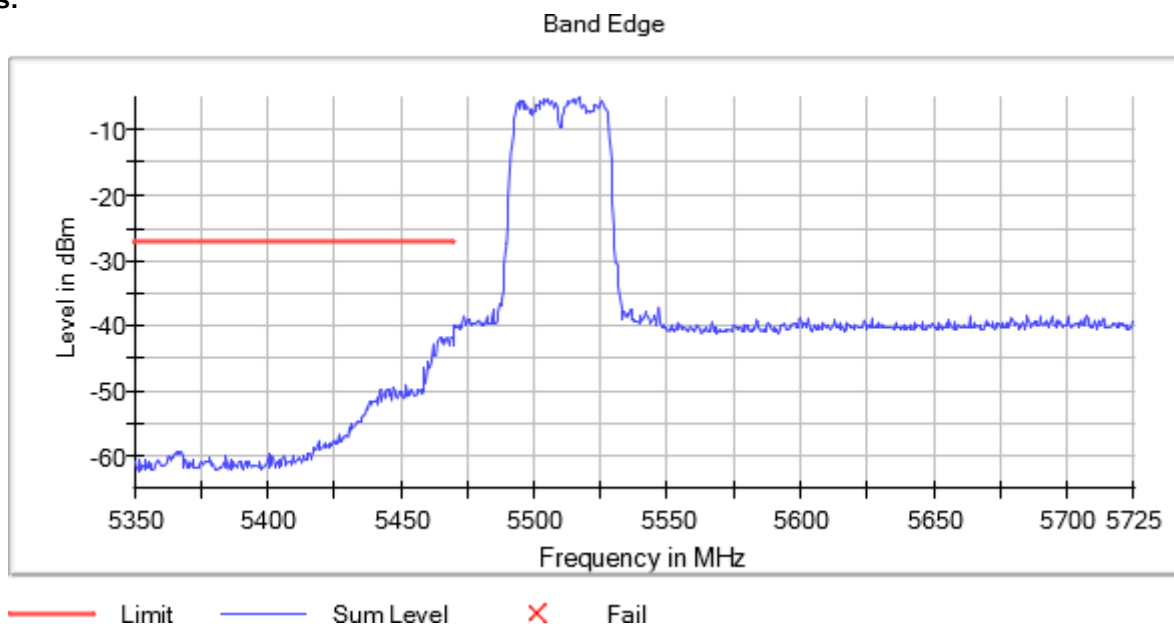
MIMO Mode: SISO

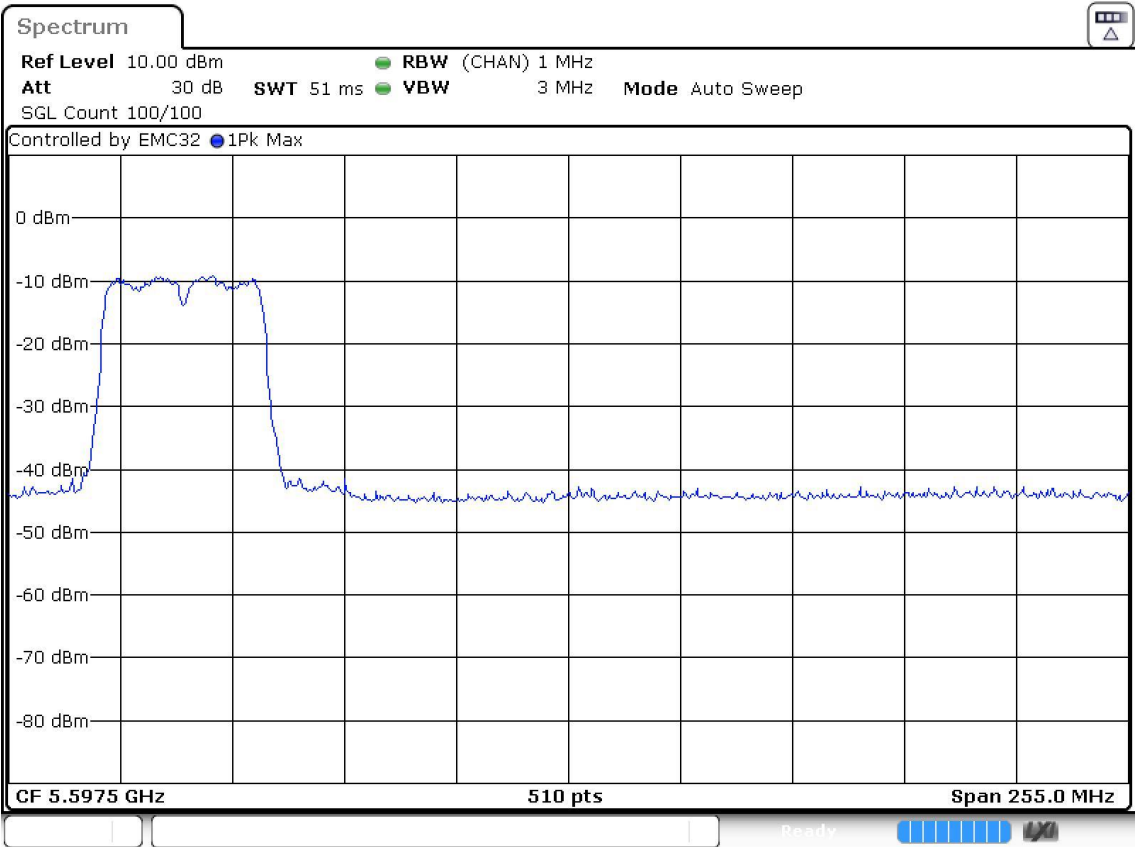
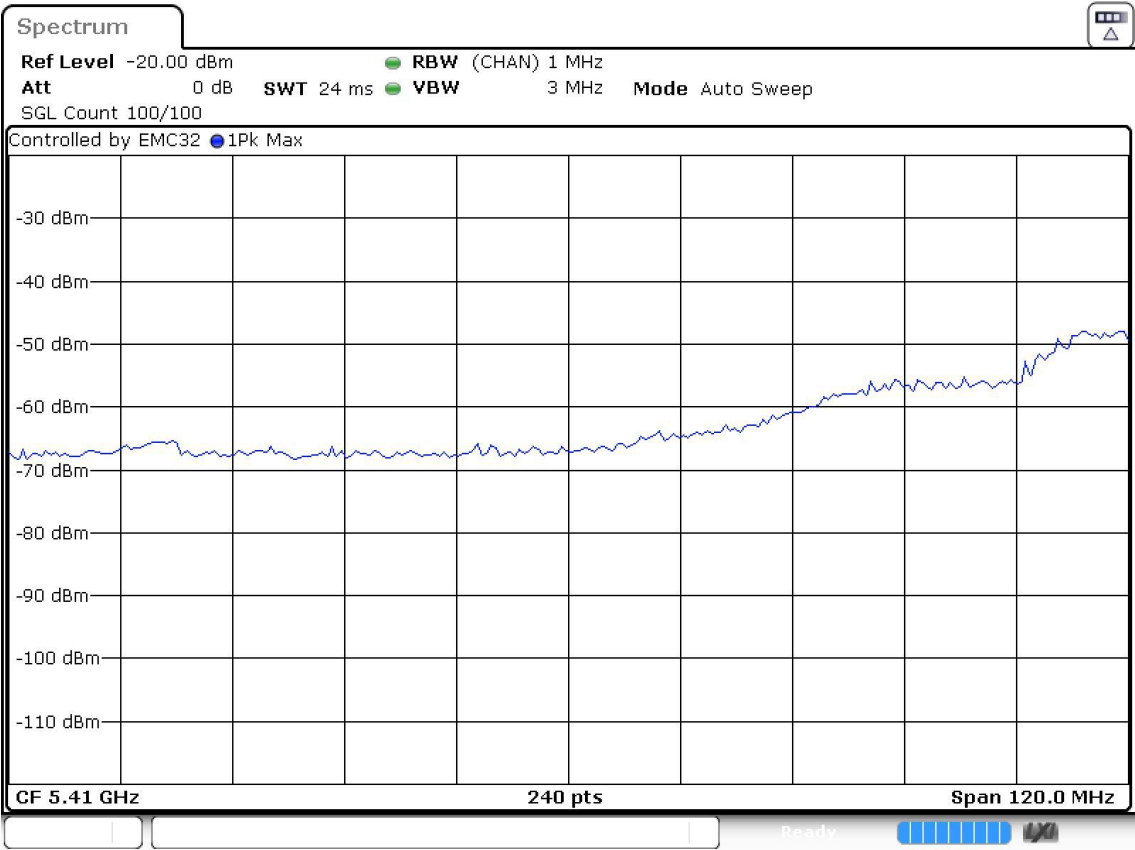
Results

Port	Freq (MHz)	Freq (MHz)	Lvl (dBm)
1	5510.00000	5464.750000	-41.9
1	5510.00000	5468.750000	-41.9
1	5510.00000	5469.250000	-42.0
1	5510.00000	5465.250000	-42.0
1	5510.00000	5467.250000	-42.1
1	5510.00000	5466.250000	-42.3
1	5510.00000	5468.250000	-42.5
1	5510.00000	5463.750000	-42.5
1	5510.00000	5465.750000	-42.6
1	5510.00000	5464.250000	-42.6
1	5510.00000	5467.750000	-42.9
1	5510.00000	5462.250000	-43.1
1	5510.00000	5466.750000	-43.1
1	5510.00000	5469.750000	-43.2
1	5510.00000	5462.750000	-44.4
1	5710.00000	5854.750000	-61.1
1	5710.00000	5855.750000	-61.5
1	5710.00000	5854.250000	-61.8
1	5710.00000	5851.750000	-61.9
1	5710.00000	5855.250000	-61.9
1	5710.00000	5852.250000	-62.0
1	5710.00000	5853.250000	-62.1
1	5710.00000	5852.750000	-62.1
1	5710.00000	5853.750000	-62.2
1	5710.00000	5850.250000	-62.6
1	5710.00000	5867.750000	-62.8
1	5710.00000	5859.250000	-62.9
1	5710.00000	5856.750000	-62.9
1	5710.00000	5857.250000	-63.0
1	5710.00000	5856.250000	-63.0

Verdict

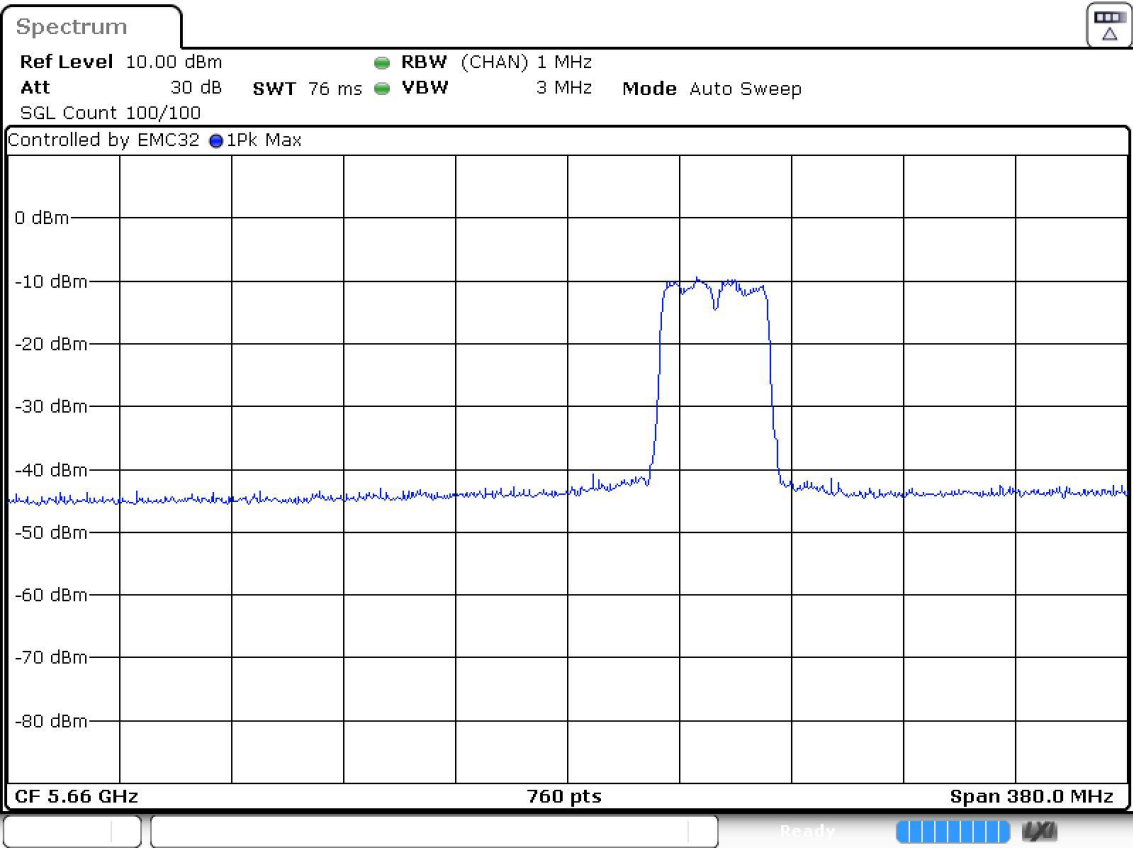
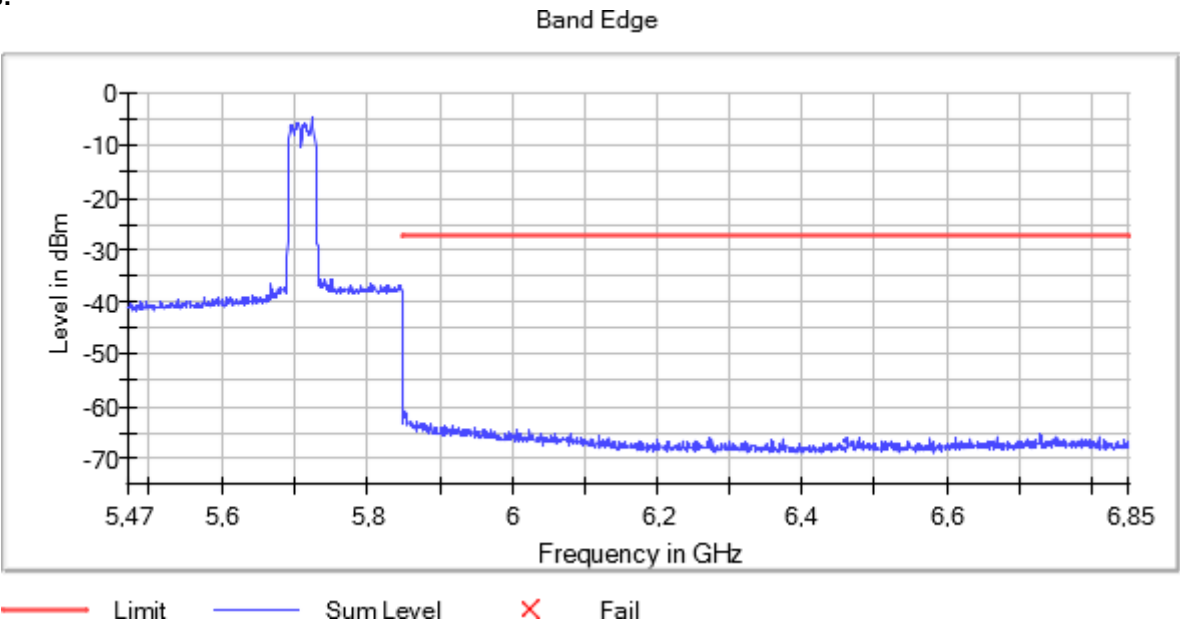
Pass

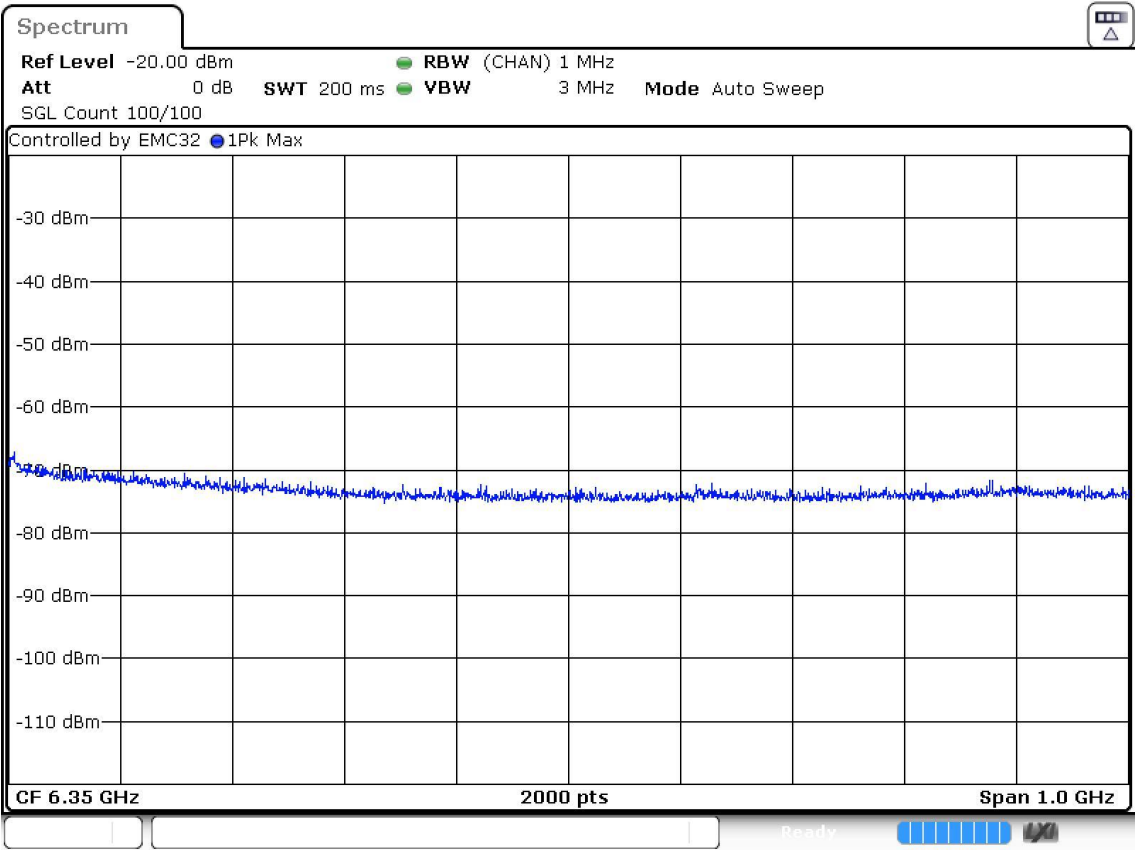




Active Port = 1
Frequency MHz = 5710.00000
Modulation = 802.11ac VHT40 (OFDM MCS0) MIMO Mode = SISO

Images:





Modulation: 802.11ac VHT80 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Freq (MHz)	Lvl (dBm)
1	5530.00000	5460.250000	-40.4
1	5530.00000	5457.750000	-40.6
1	5530.00000	5451.750000	-40.8
1	5530.00000	5455.750000	-40.9
1	5530.00000	5461.750000	-41.0
1	5530.00000	5459.750000	-41.1
1	5530.00000	5463.750000	-41.2
1	5530.00000	5460.750000	-41.2
1	5530.00000	5461.250000	-41.3
1	5530.00000	5452.750000	-41.5
1	5530.00000	5456.750000	-41.6
1	5530.00000	5456.250000	-41.6
1	5530.00000	5458.250000	-41.6
1	5530.00000	5468.750000	-41.6
1	5530.00000	5454.250000	-41.7
1	5690.00000	5862.250000	-63.0
1	5690.00000	5859.750000	-63.1
1	5690.00000	5859.250000	-63.1
1	5690.00000	5887.750000	-63.2
1	5690.00000	5898.750000	-63.4
1	5690.00000	5861.750000	-63.6
1	5690.00000	5880.750000	-63.7
1	5690.00000	5854.750000	-63.7
1	5690.00000	5871.750000	-63.7
1	5690.00000	5857.250000	-63.9
1	5690.00000	5875.250000	-63.9
1	5690.00000	5879.750000	-63.9
1	5690.00000	5863.750000	-63.9
1	5690.00000	5850.250000	-64.0
1	5690.00000	5856.750000	-64.0

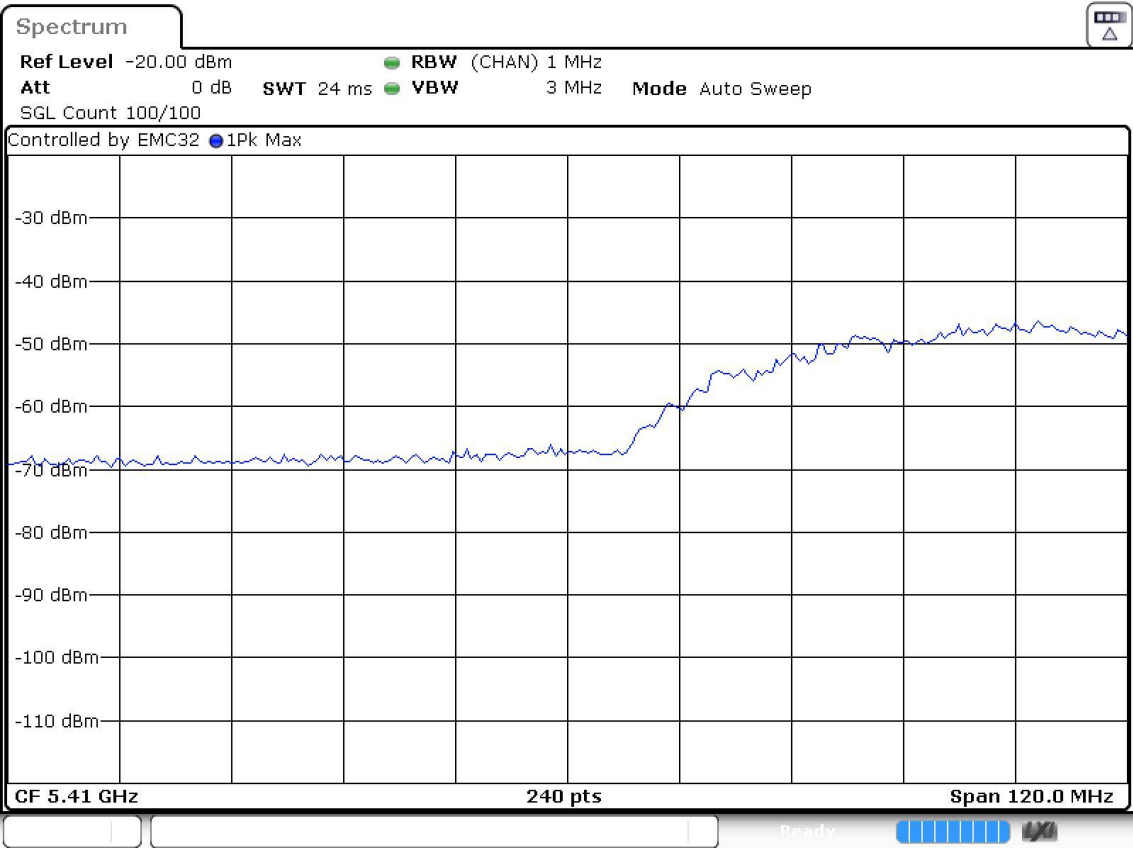
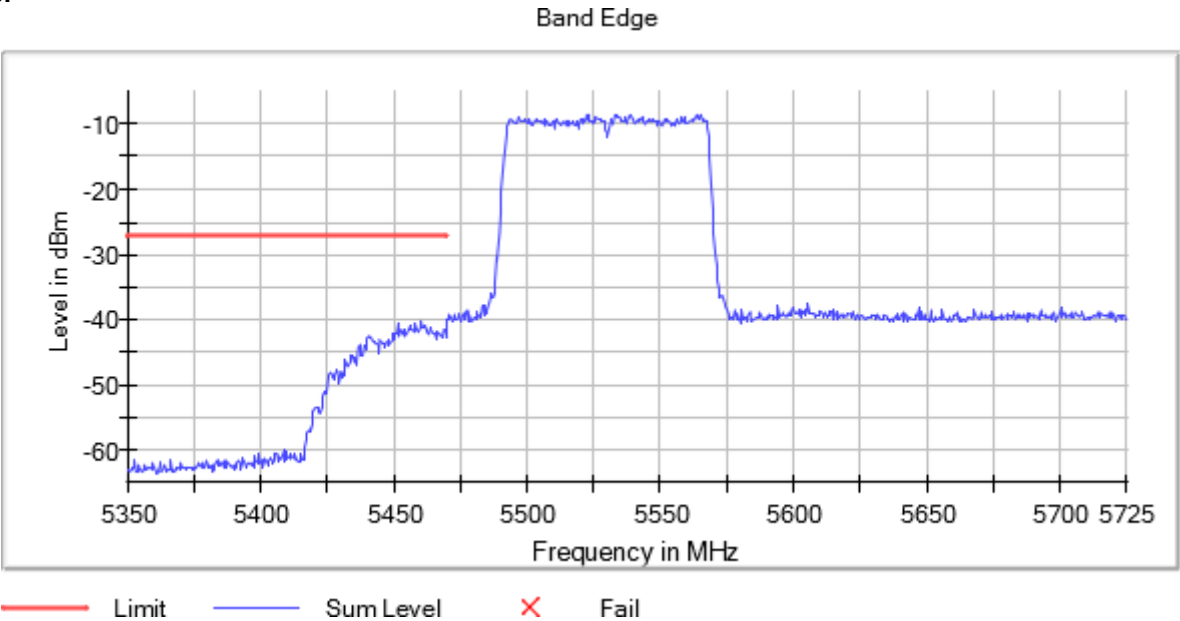
Verdict

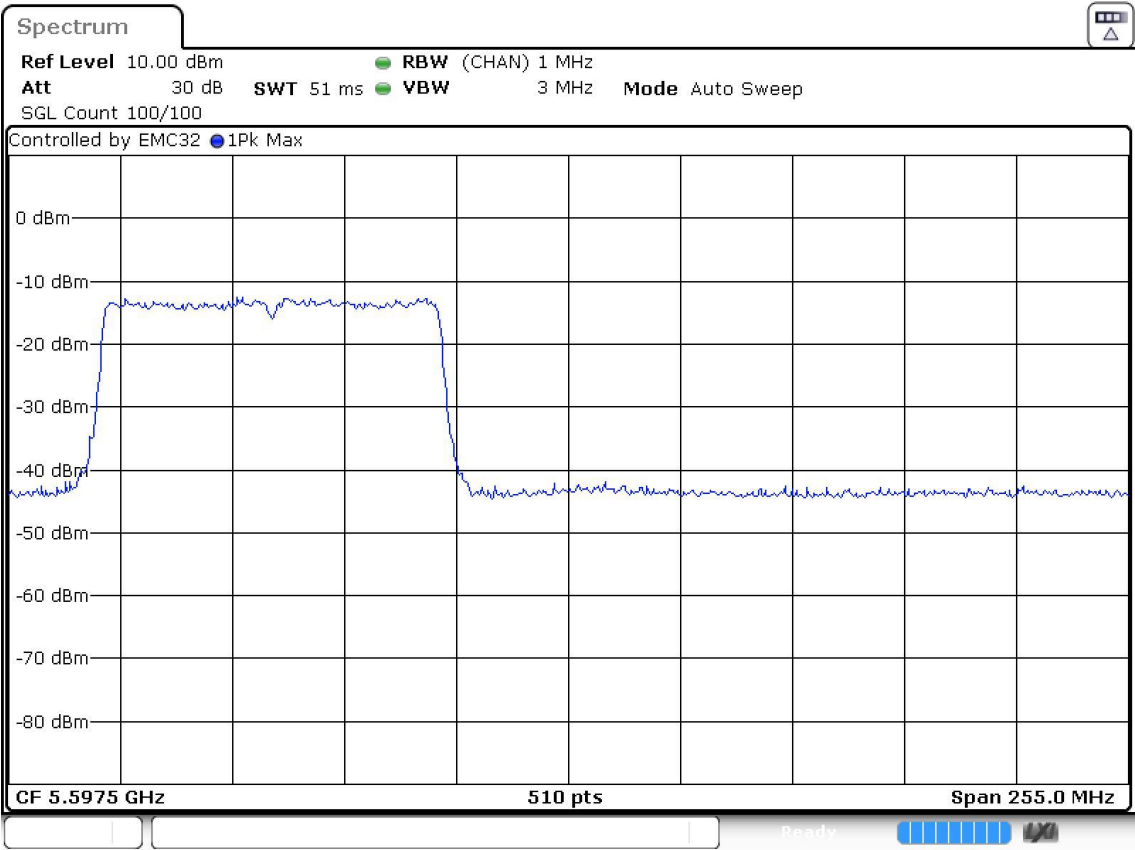
Pass

Attachments

Active Port = 1
Frequency MHz = 5530.00000
Modulation = 802.11ac VHT80 (OFDM MCS0) MIMO Mode = SISO

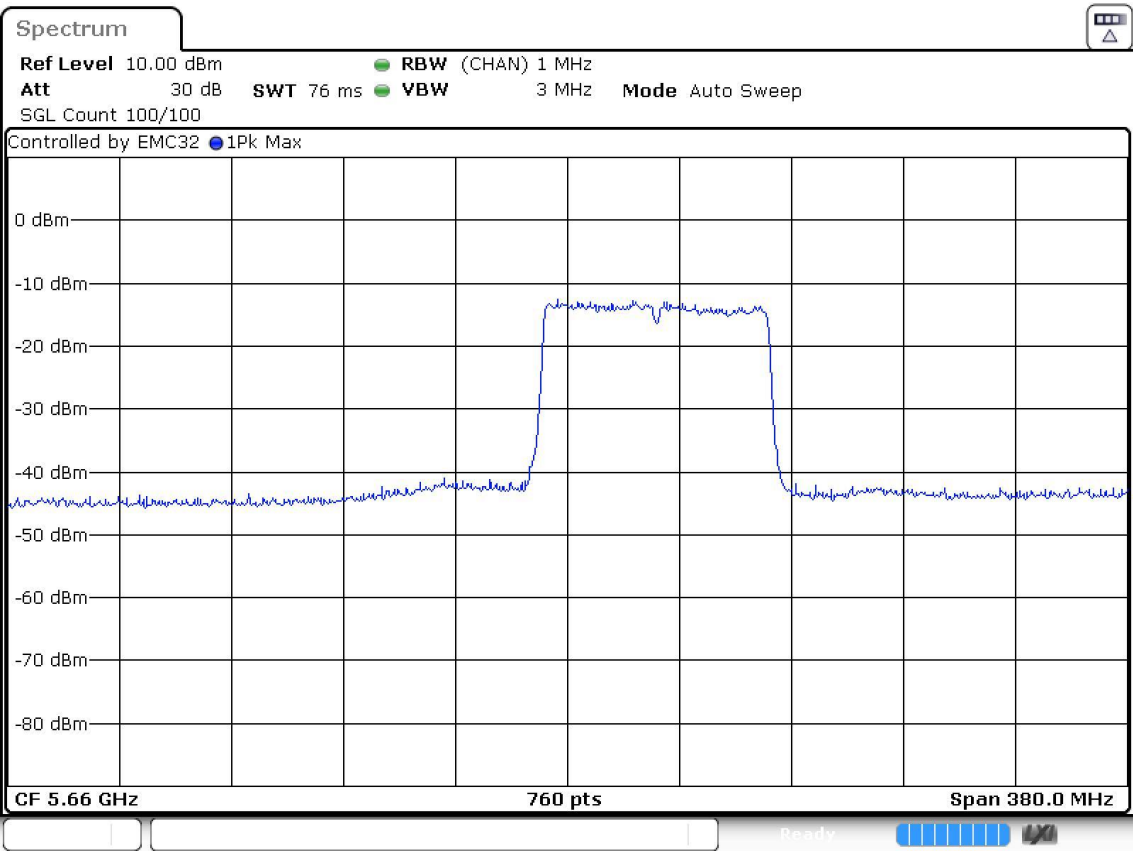
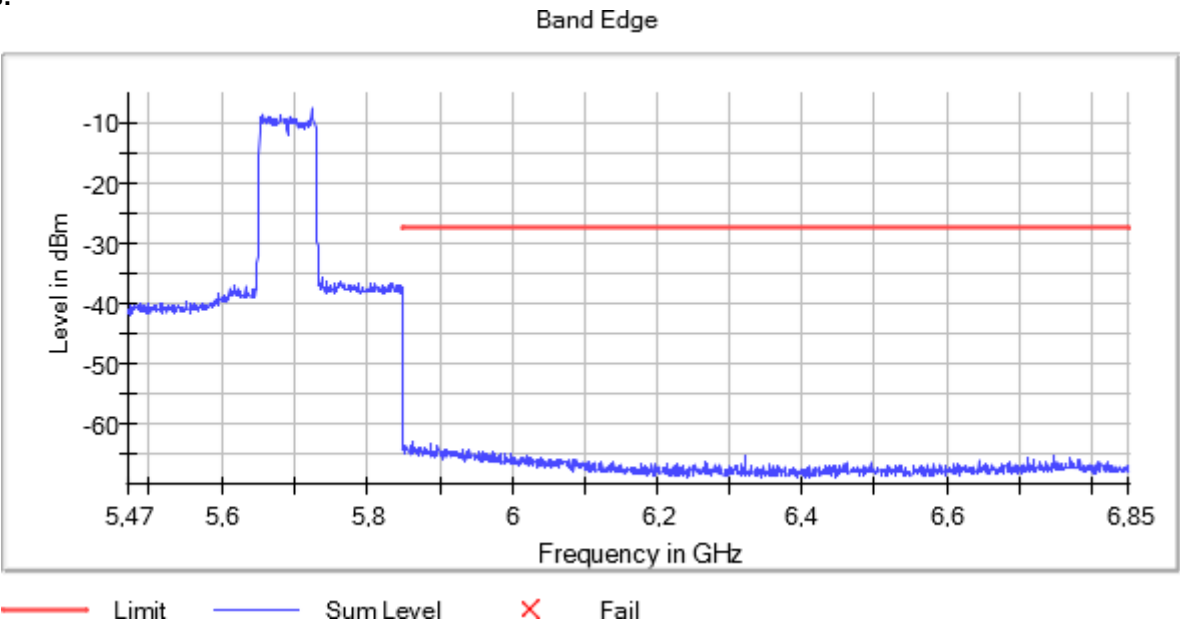
Images:

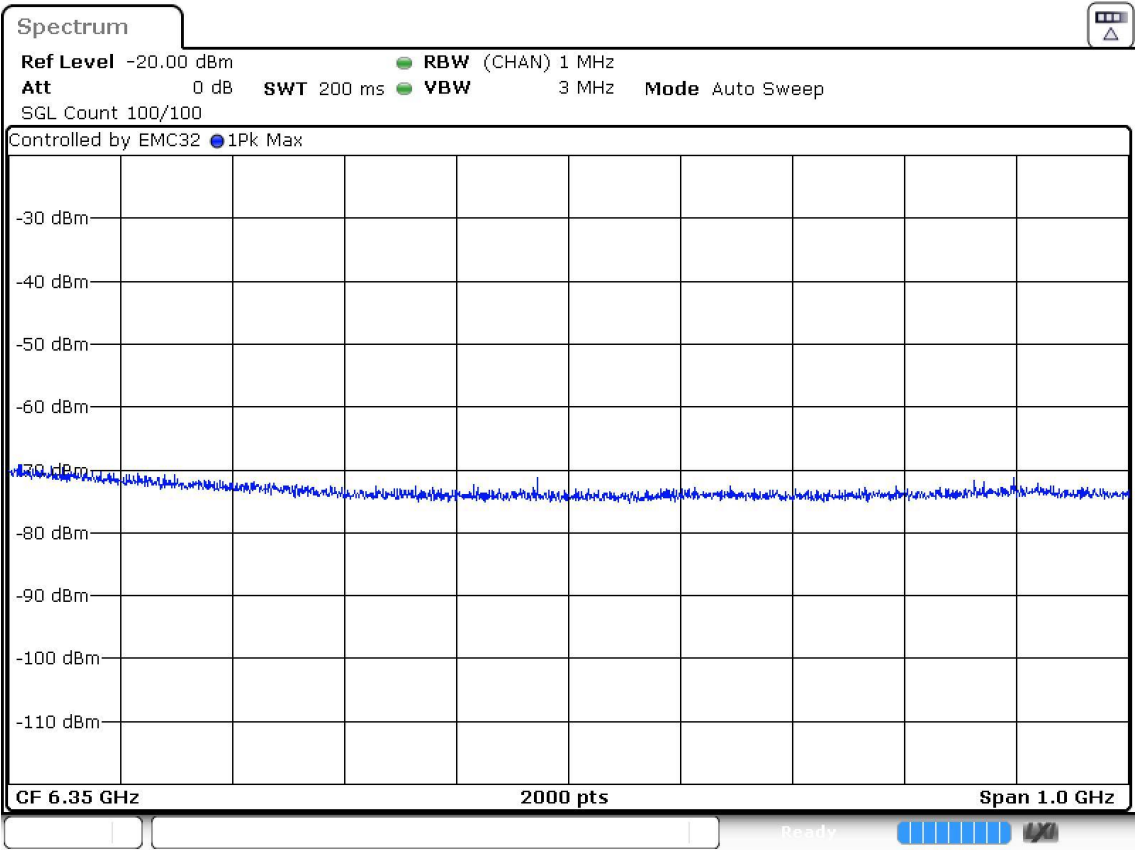




Active Port = 1
Modulation = 802.11ac VHT80 (OFDM MCS0) MIMO Mode = SISO
Frequency MHz = 5690.00000

Images:





RSS-Gen 6.10. / Section 15.35 Subclause (c) [DC] Duty Cycle

Limits

When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

Modulation: 802.11n HT20 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	DC (%)
1	5500.00000	95.90
	5580.00000	95.90
	5720.00000	95.91

Modulation: 802.11n HT40 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	DC (%)
1	5510.00000	92.06
	5550.00000	92.07
	5710.00000	92.07

Modulation: 802.11a (OFDM 6 Mbit/s)

MIMO Mode: SISO

Results

Port	Freq (MHz)	DC (%)
1	5500.00000	96.16
	5580.00000	96.16
	5720.00000	96.16

Modulation: 802.11ac VHT20 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	DC (%)
1	5500.00000	95.93
	5580.00000	95.94
	5720.00000	95.94

Modulation: 802.11ac VHT40 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	DC (%)
1	5510.00000	92.17
	5550.00000	92.16
	5710.00000	92.18

Modulation: 802.11ac VHT80 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	DC (%)
1	5530.00000	85.42
	5690.00000	85.42

Verdict

Pass

RSS-Gen 6.6 / RSS-247 6.2. [99dBW] Transmitter 99% Occupied Bandwidth

Limits

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

The following conditions shall be observed for measuring the occupied bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

Modulation: 802.11n HT20 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Occ Ch BW (MHz)
1	5500.00000	17.600
	5580.00000	17.700
	5720.00000	17.700

Verdict

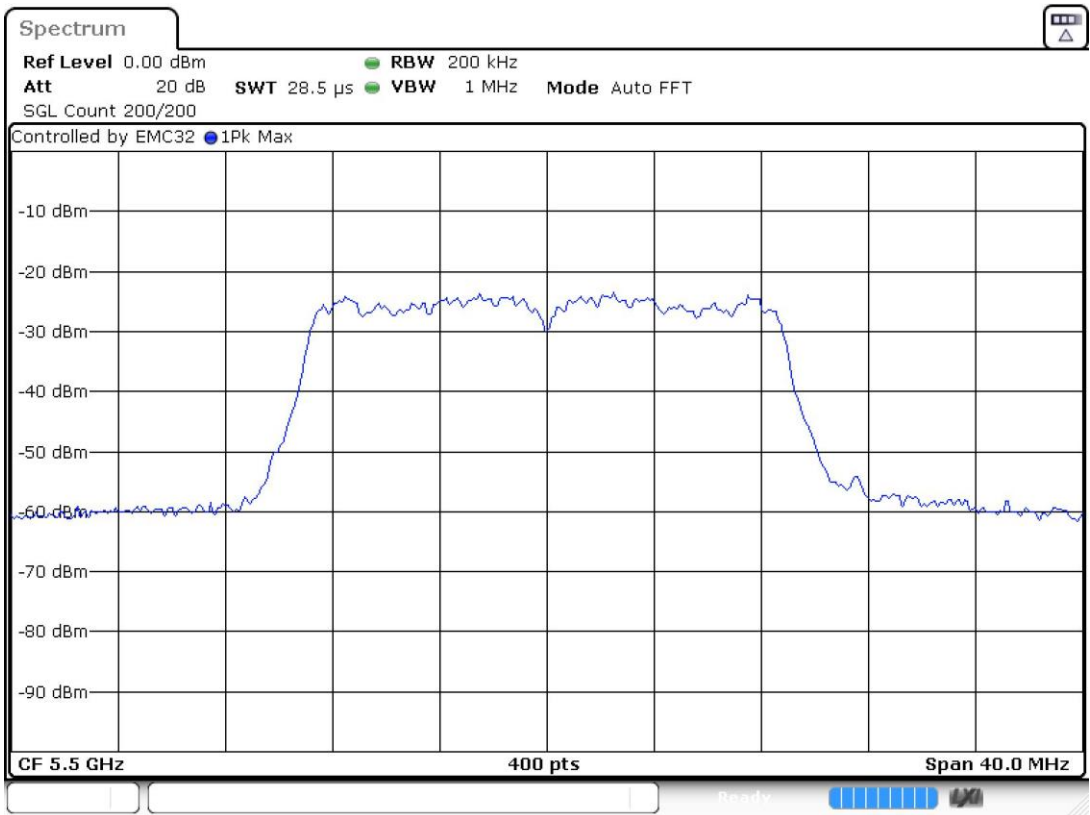
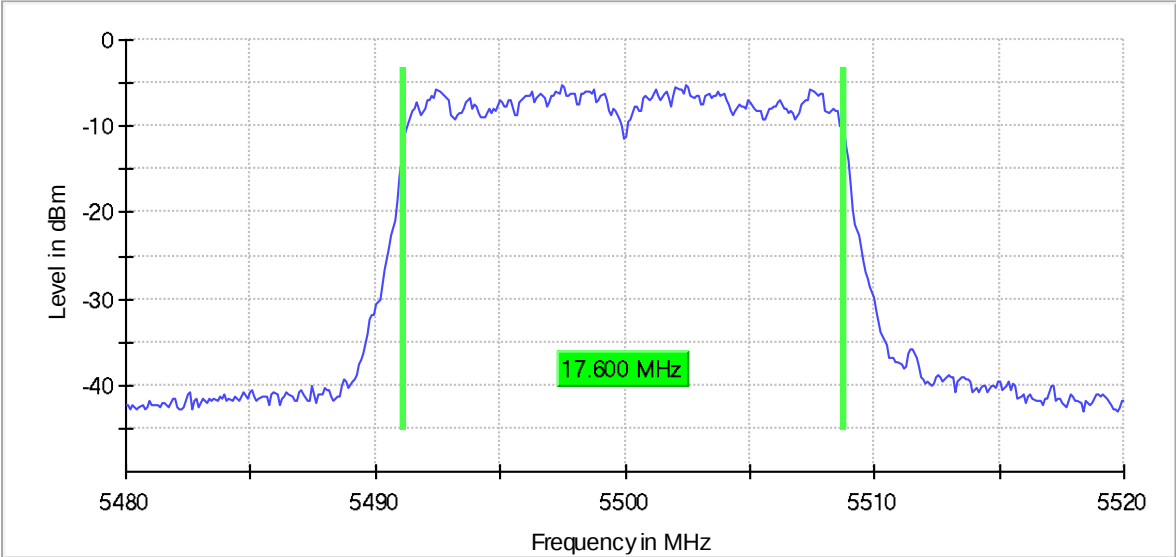
Pass

Attachments

Active Port = 1
Frequency MHz = 5500.00000
Modulation = 802.11n HT20 (OFDM MCS0) MIMO Mode = SISO

Images:

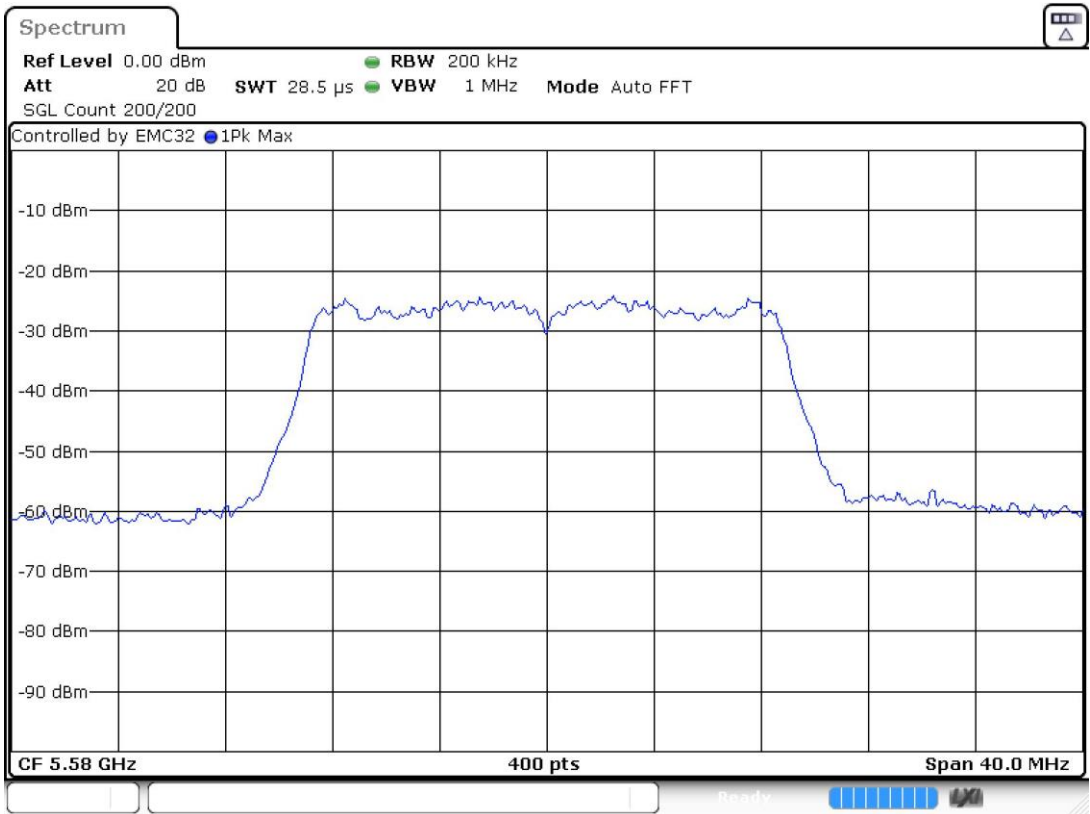
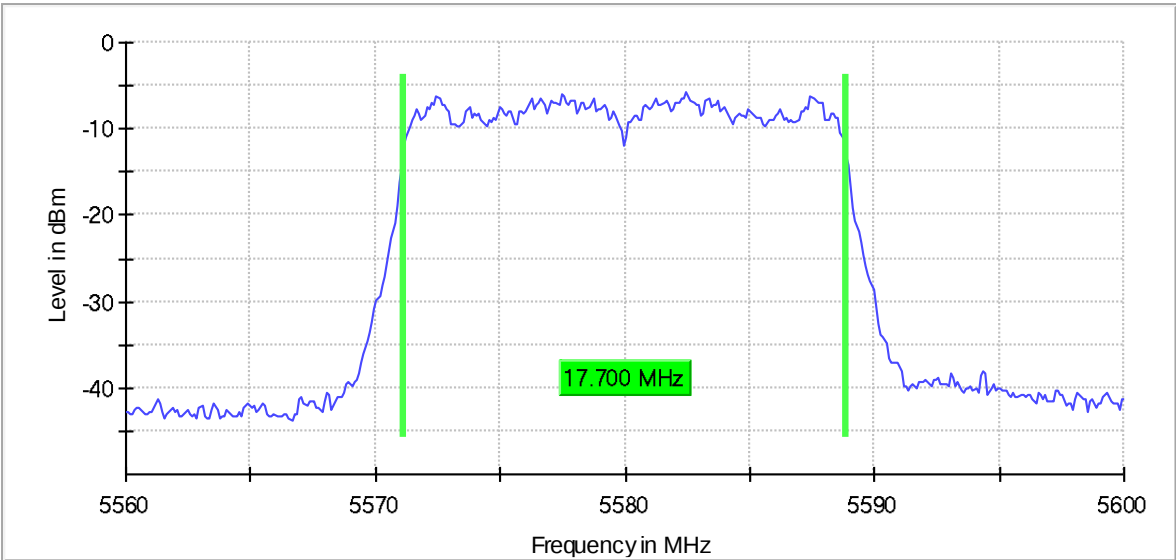
99 %Bandwidth



Active Port = 1
Modulation = 802.11n HT20 (OFDM MCS0) MIMO Mode = SISO
Frequency MHz = 5580.00000

Images:

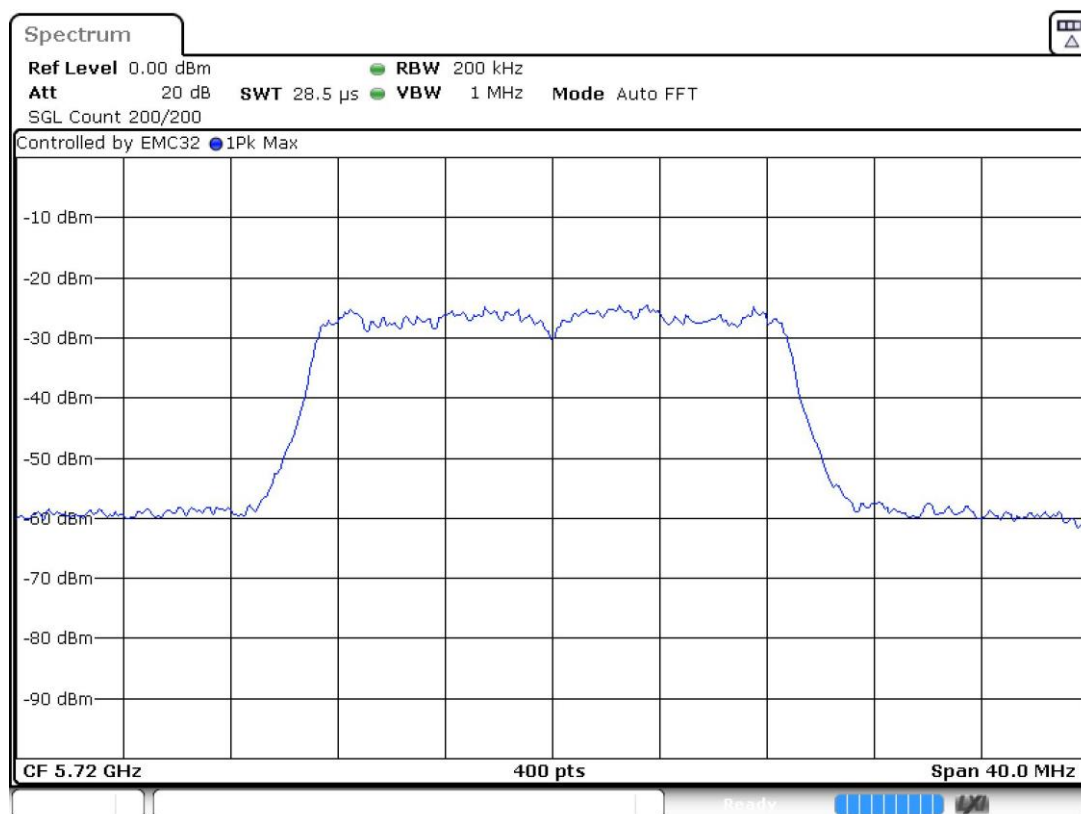
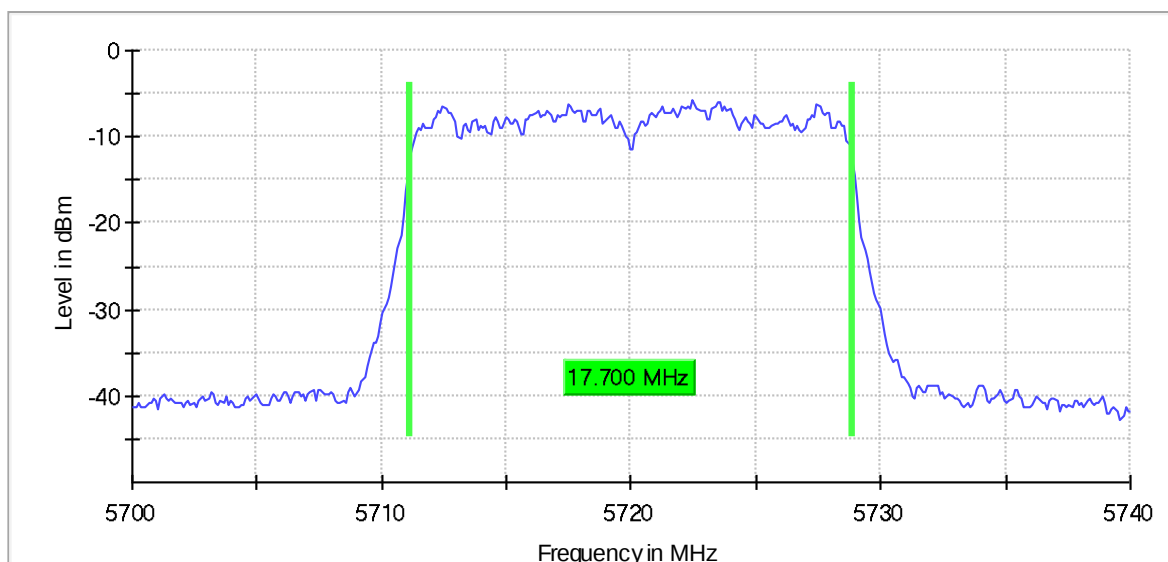
99 %Bandwidth



Frequency MHz = 5720.00000

Images:

99 %Bandwidth



Modulation: 802.11n HT40 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Occ Ch BW (MHz)
1	5510.00000	36.250
	5550.00000	36.250
	5710.00000	36.250

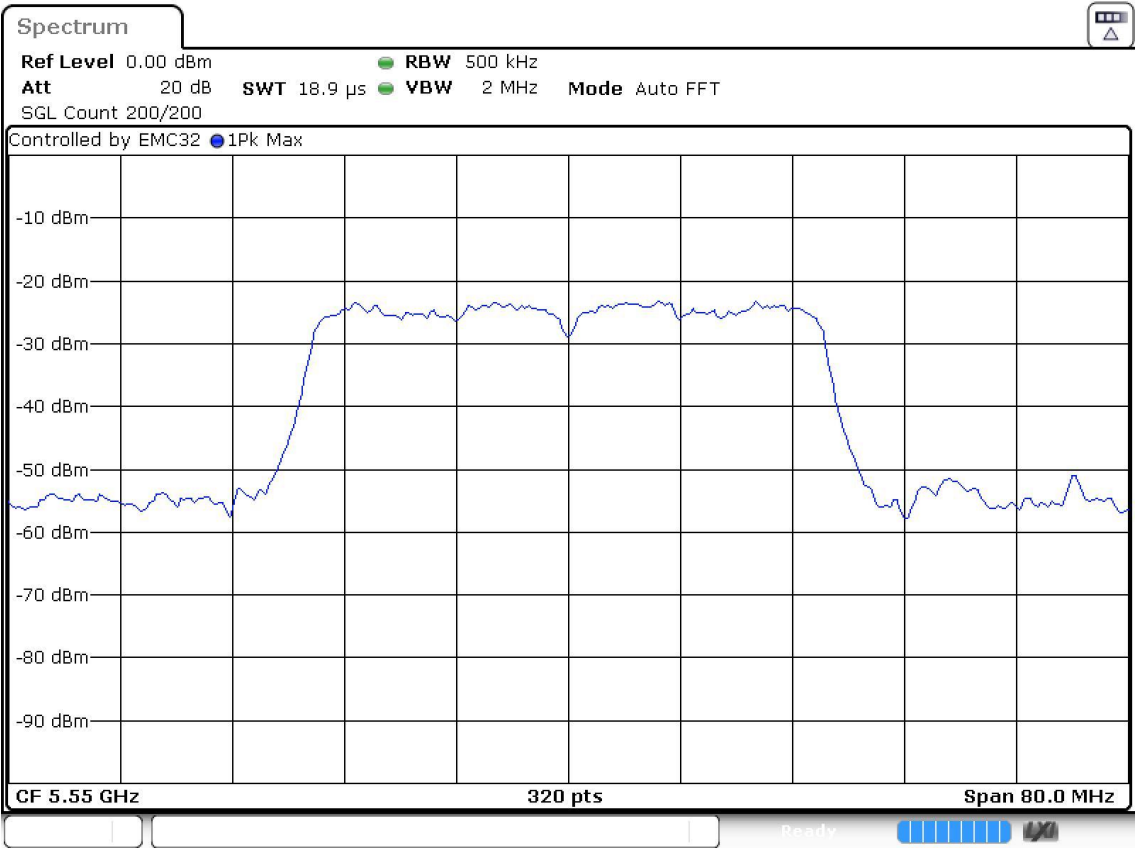
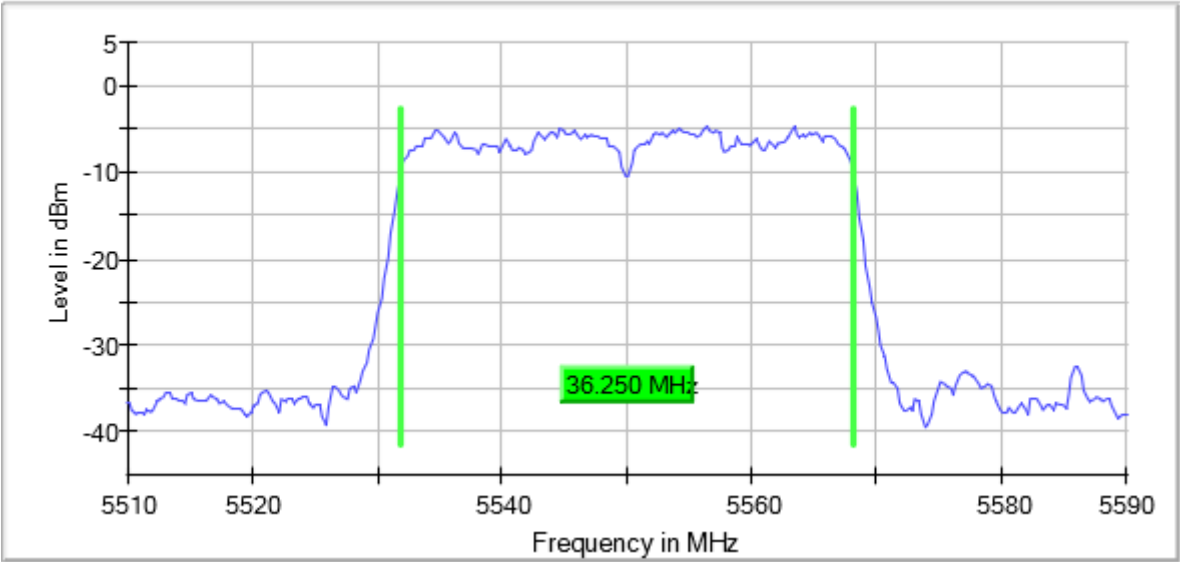
Verdict

Pass

Active Port = 1
Modulation = 802.11n HT40 (OFDM MCS0) MIMO Mode = SISO
Frequency MHz = 5550.00000

Images:

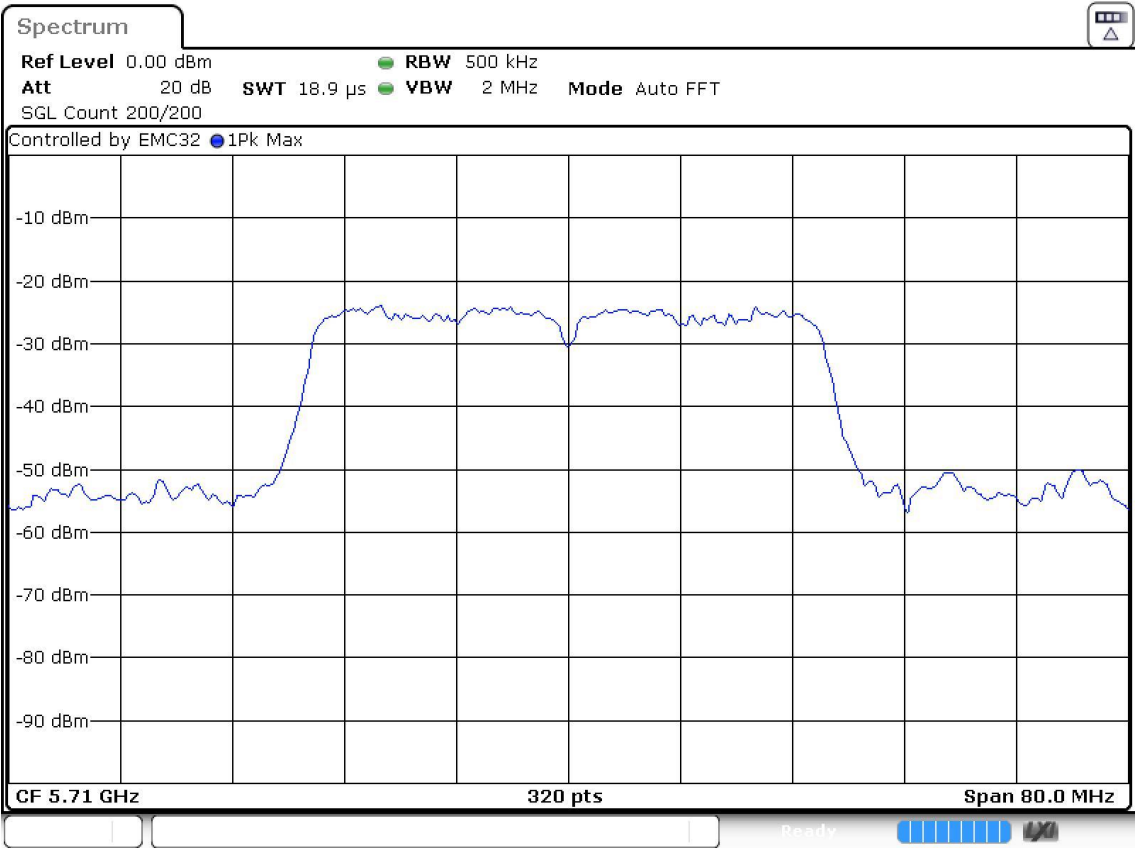
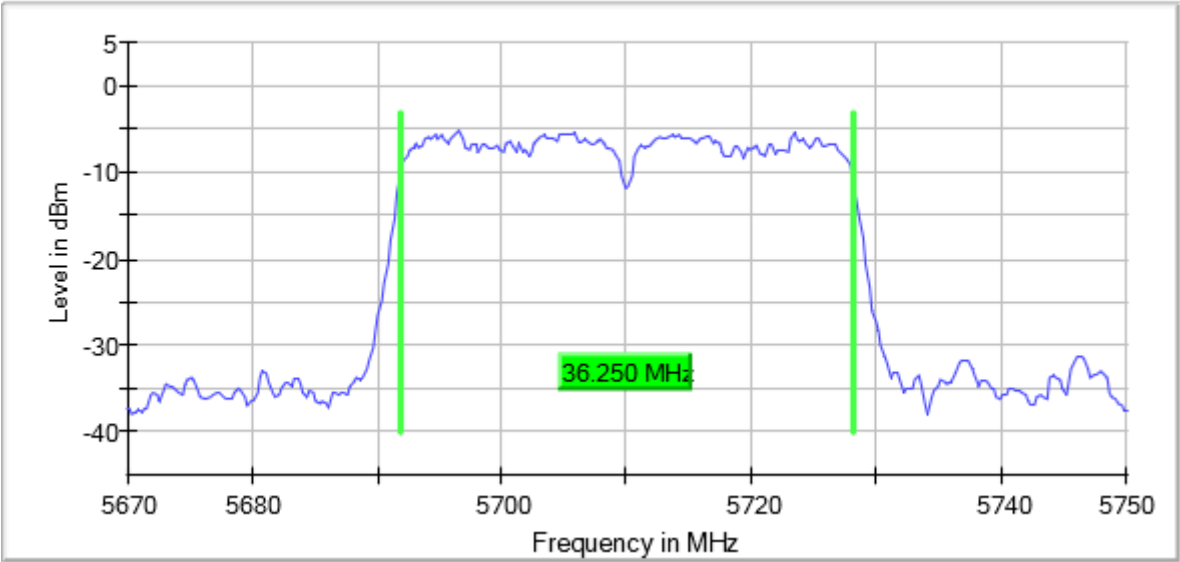
99 % Bandwidth



Active Port = 1
Modulation = 802.11n HT40 (OFDM MCS0) MIMO Mode = SISO
Frequency MHz = 5710.00000

Images:

99 % Bandwidth



Modulation: 802.11a (OFDM 6 Mbit/s)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Occ Ch BW (MHz)
1	5500.00000	16.600
	5580.00000	16.700
	5720.00000	16.700

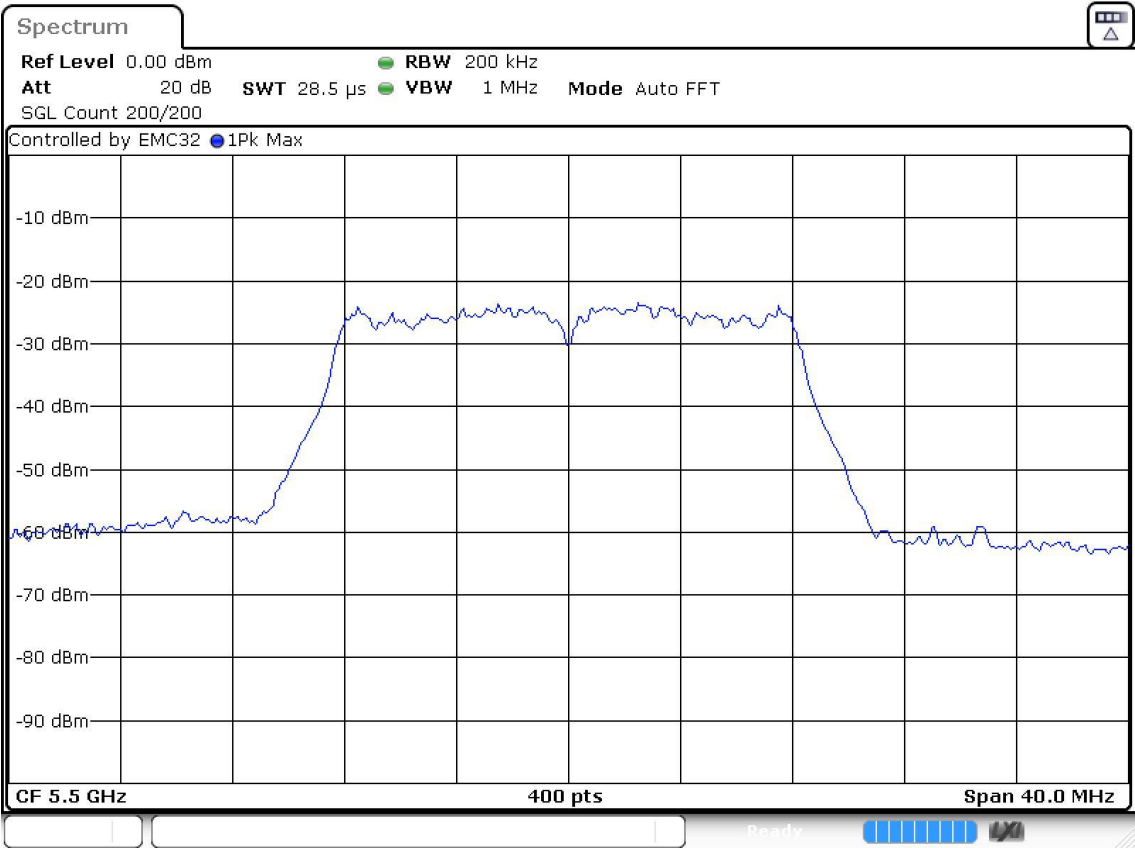
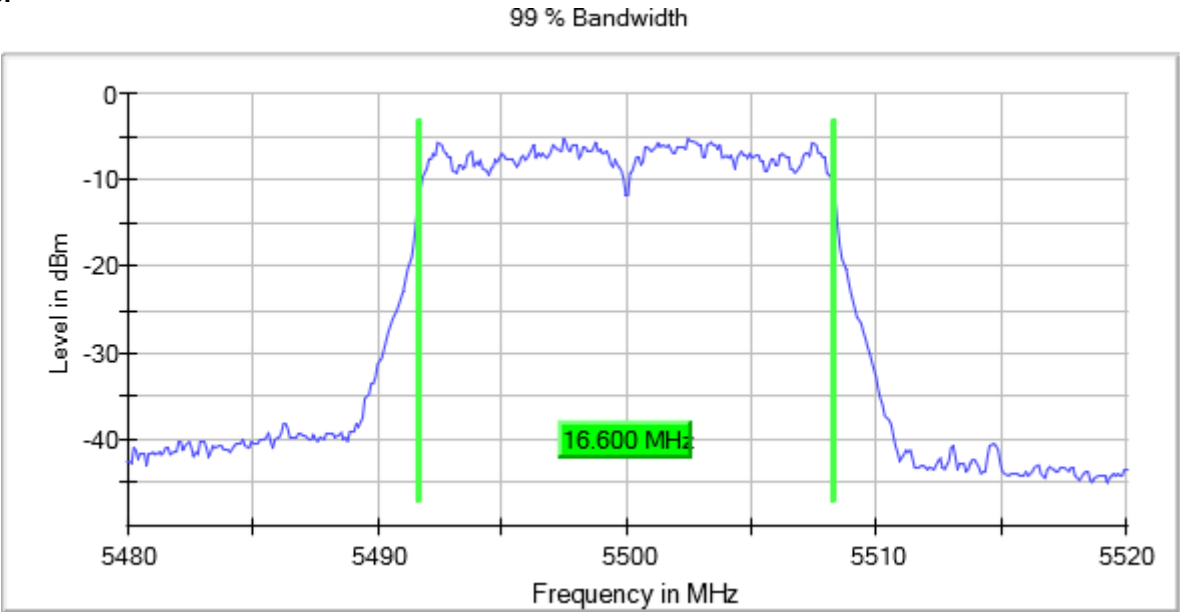
Verdict

Pass

Attachments

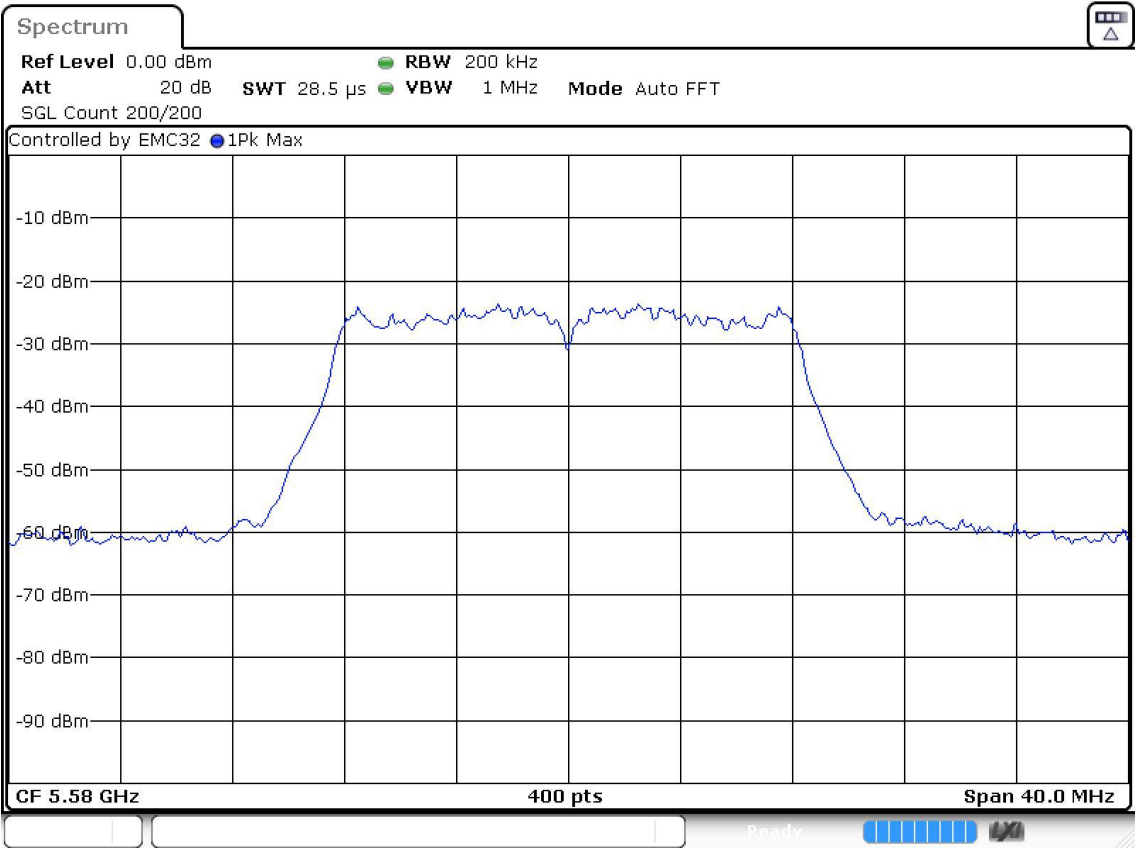
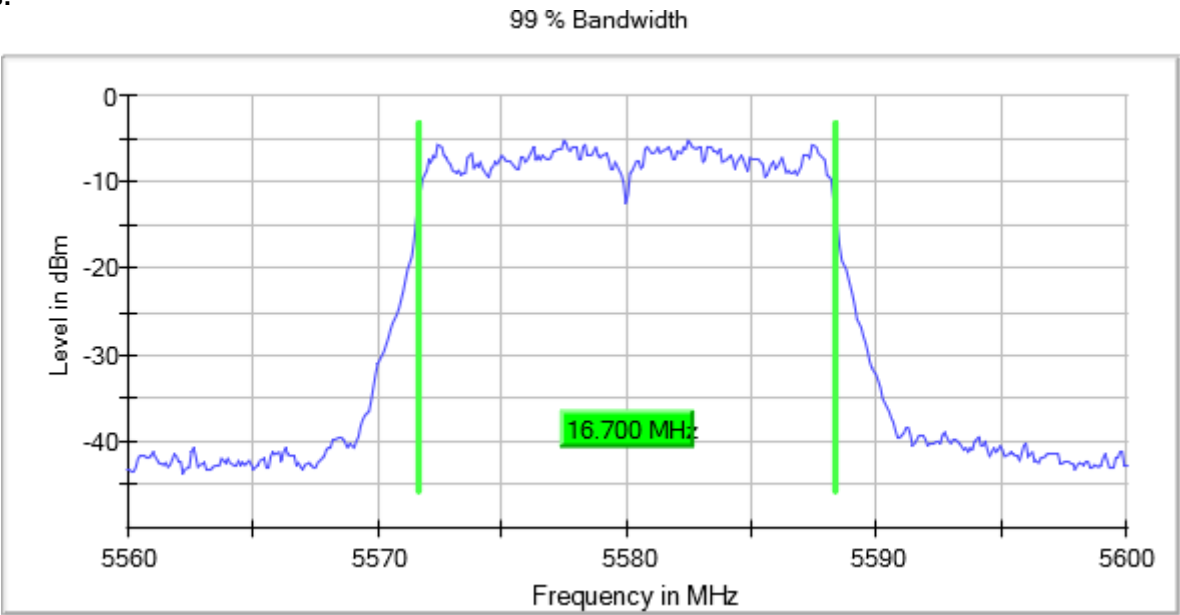
Active Port = 1 Frequency MHz = 5500.00000
Modulation = 802.11a (OFDM 6 Mbit/s) MIMO Mode = SISO

Images:



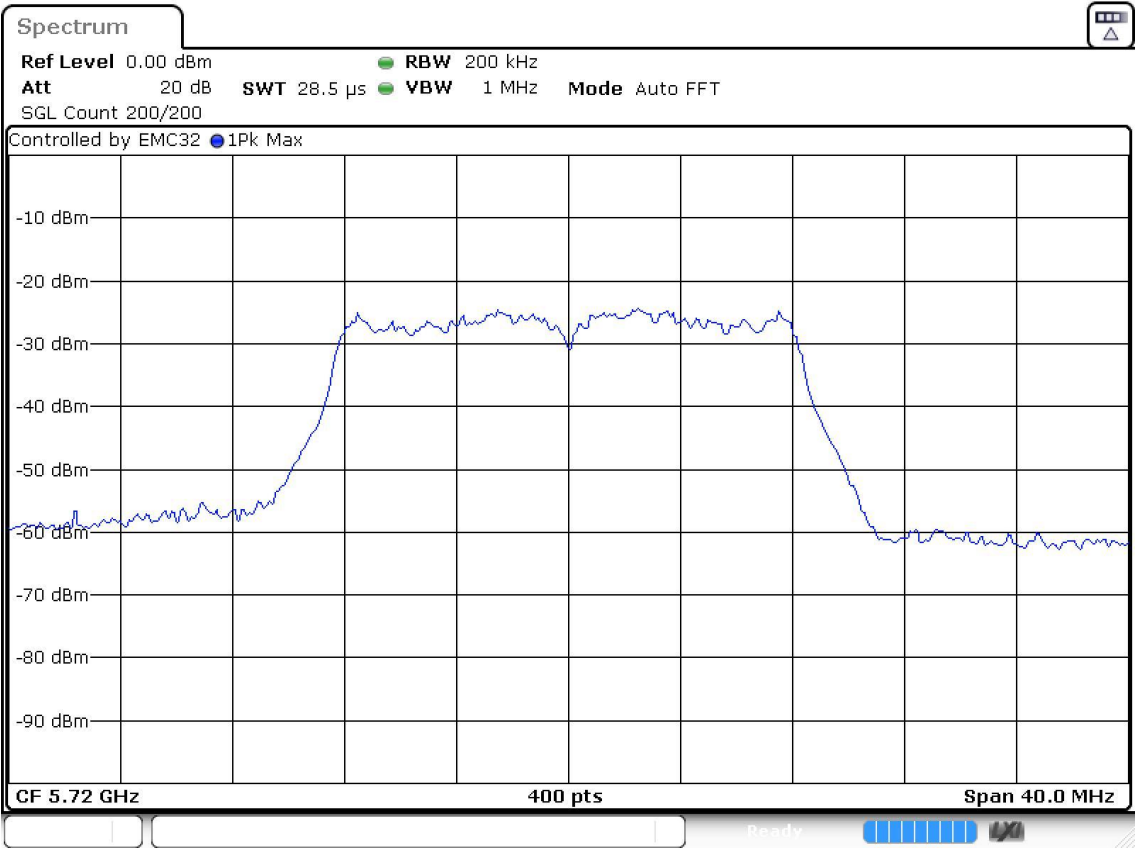
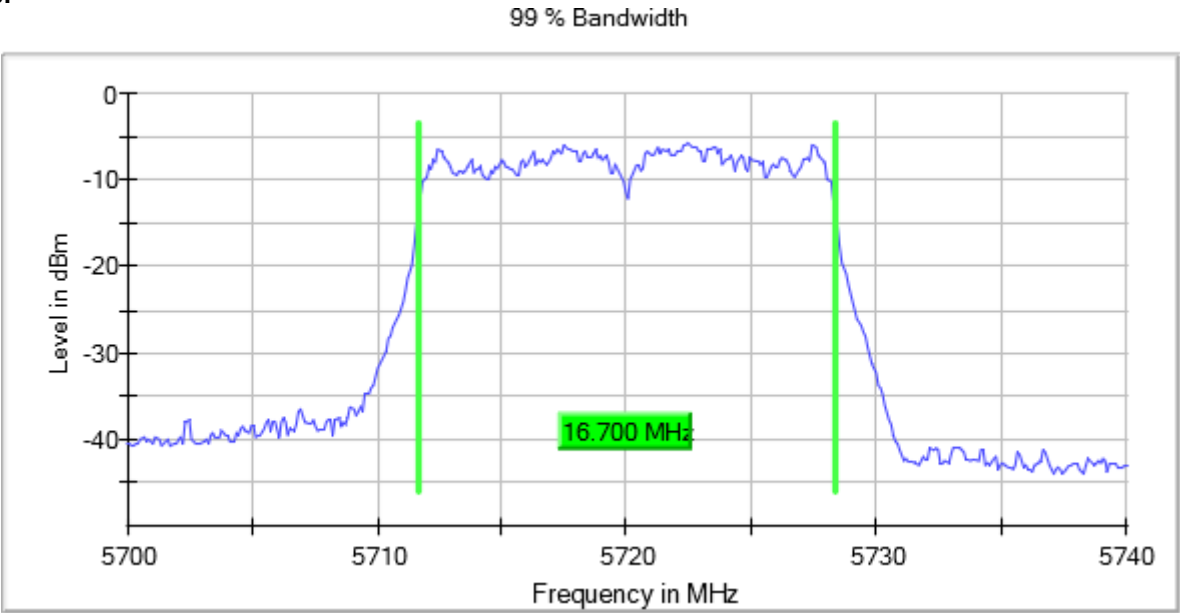
Active Port = 1 Frequency MHz = 5580.00000
Modulation = 802.11a (OFDM 6 Mbit/s) MIMO Mode = SISO

Images:



Active Port = 1 Frequency MHz = 5720.00000
Modulation = 802.11a (OFDM 6 Mbit/s) MIMO Mode = SISO

Images:



Modulation: 802.11ac VHT20 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Occ Ch BW (MHz)
1	5500.00000	17.700
	5580.00000	17.600
	5720.00000	17.700

Verdict

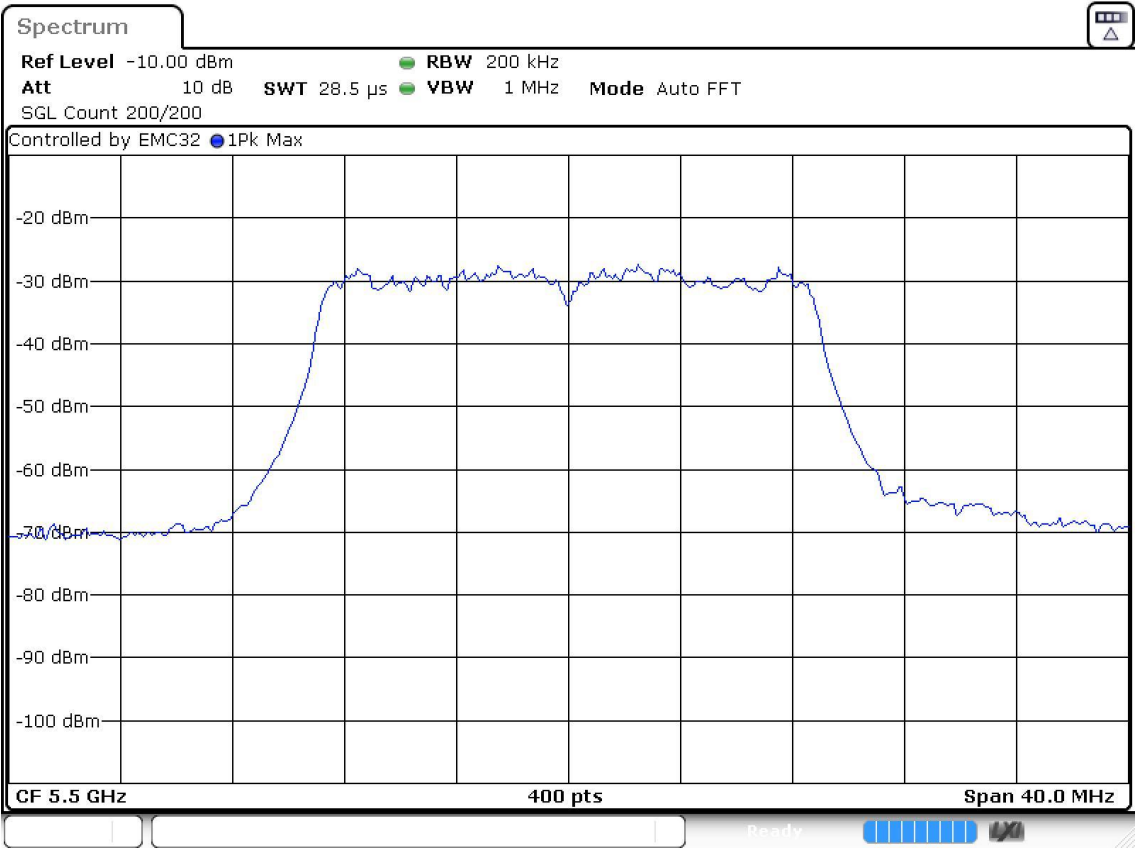
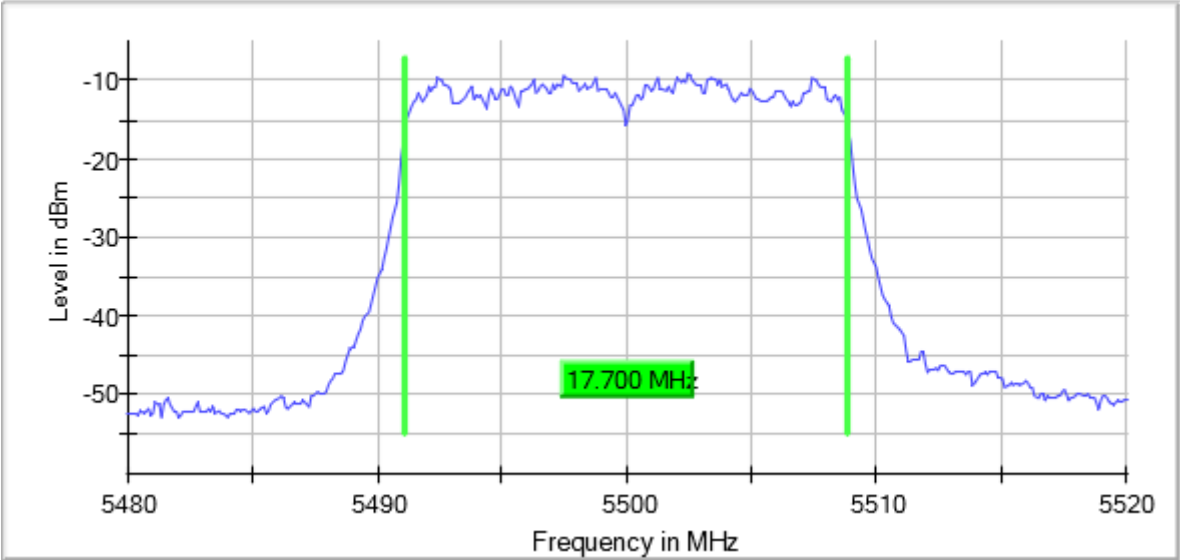
Pass

Attachments

Active Port = 1
Modulation = 802.11ac VHT20 (OFDM MCS0) MIMO Mode = SISO
Frequency MHz = 5500.00000

Images:

99 % Bandwidth



Active Port = 1
Frequency MHz = 5580.00000
Modulation = 802.11ac VHT20 (OFDM MCS0) MIMO Mode = SISO

Images:

99 % Bandwidth

