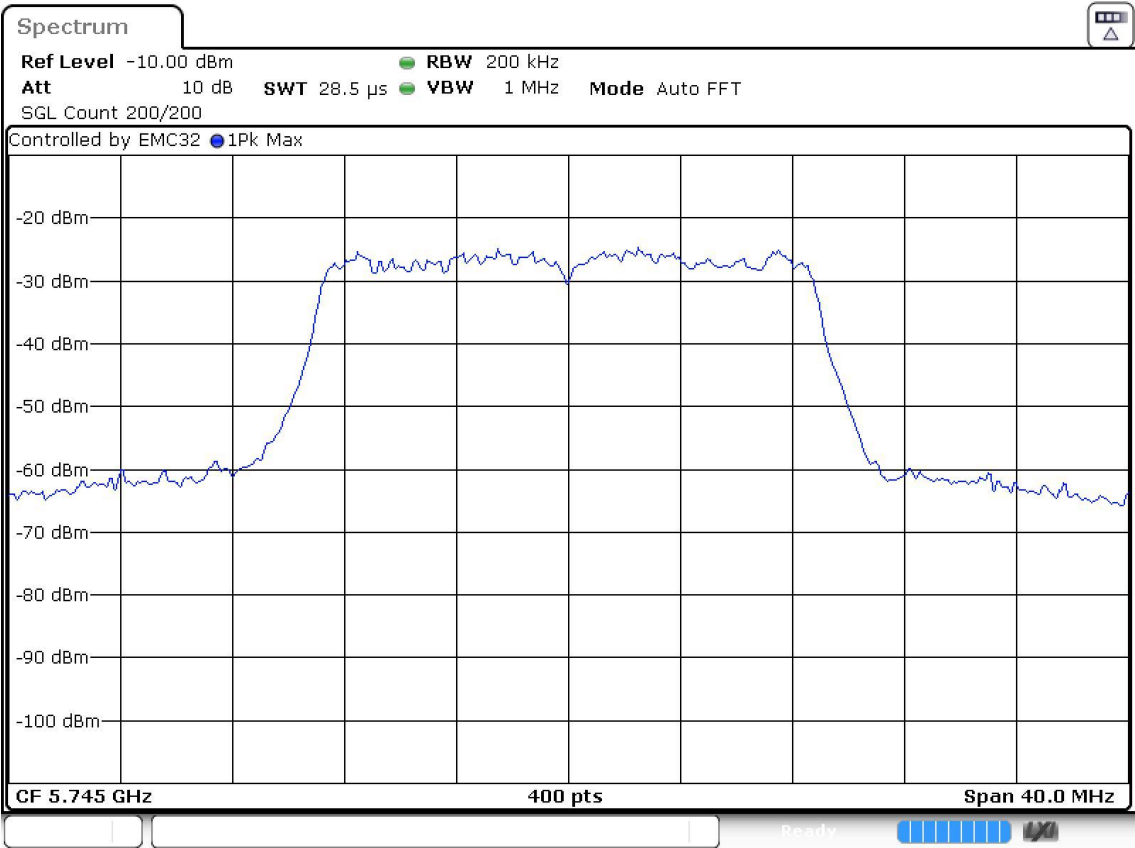
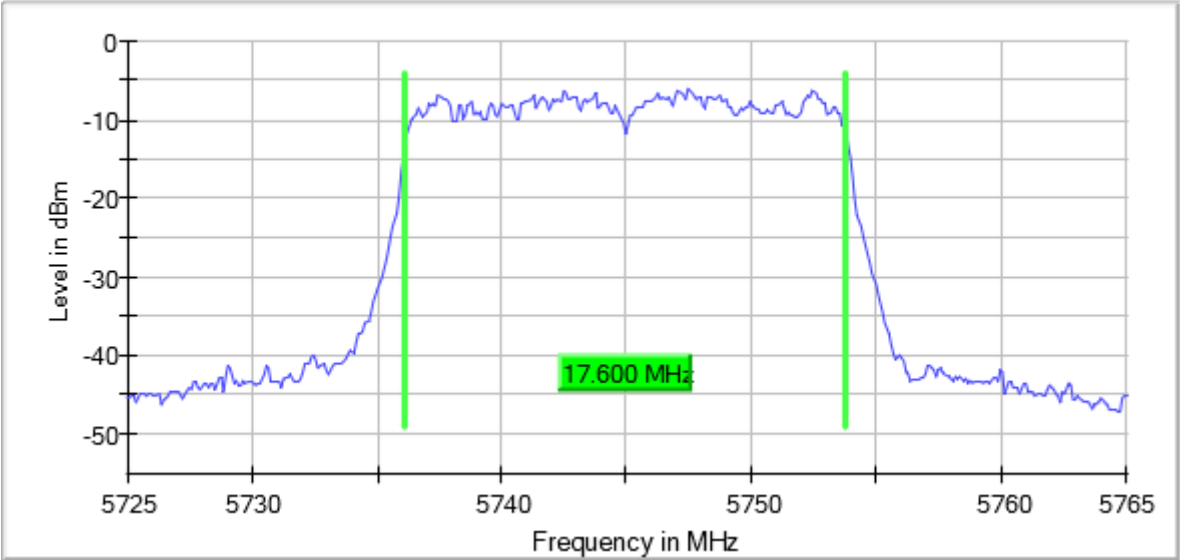


Attachments

Active Port = 1
Frequency MHz = 5745.00000
Modulation = 802.11ac VHT20 (OFDM MCS0) MIMO Mode = SISO

Images:

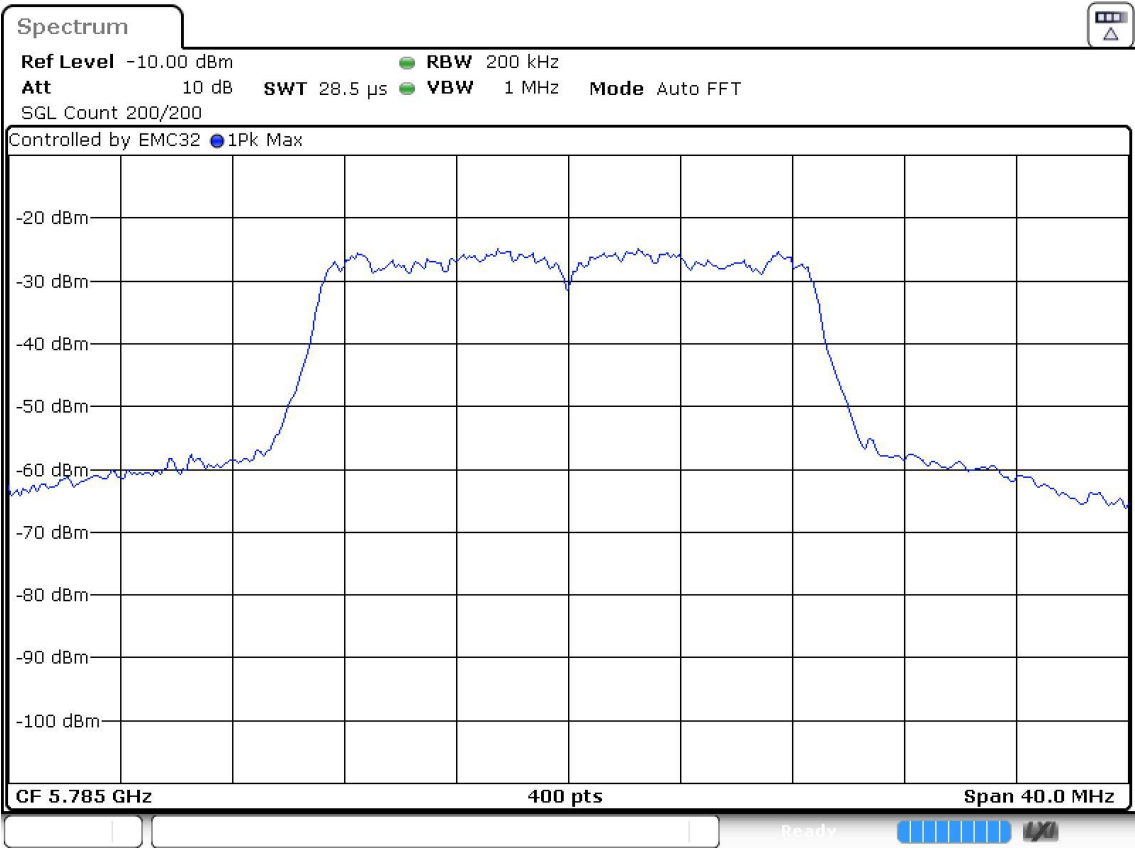
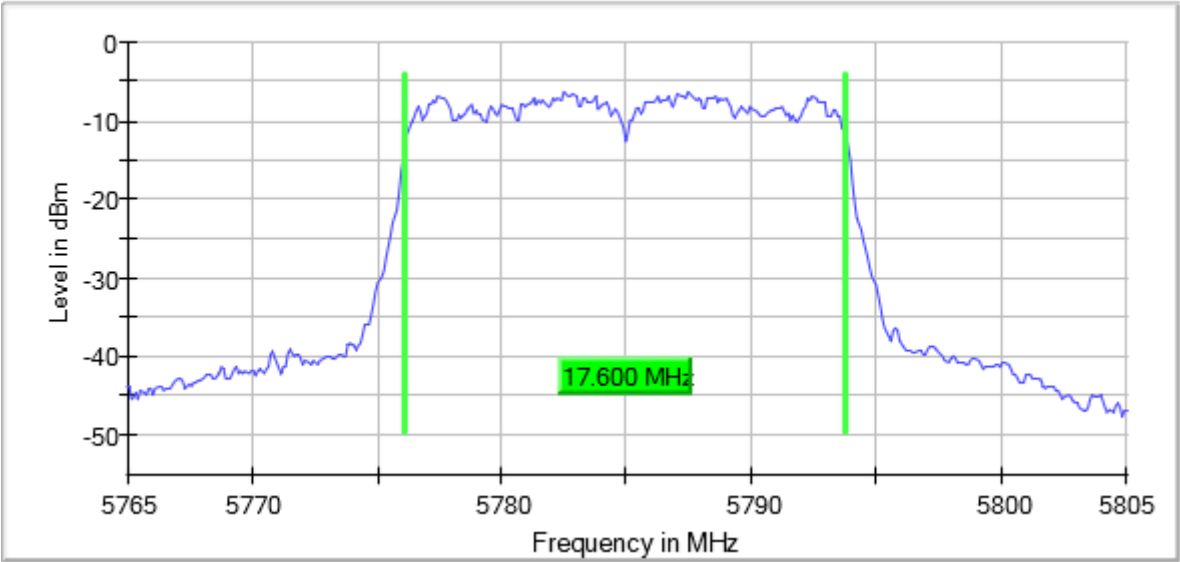
99 % Bandwidth



Active Port = 1
Modulation = 802.11ac VHT20 (OFDM MCS0) MIMO Mode = SISO
Frequency MHz = 5785.00000

Images:

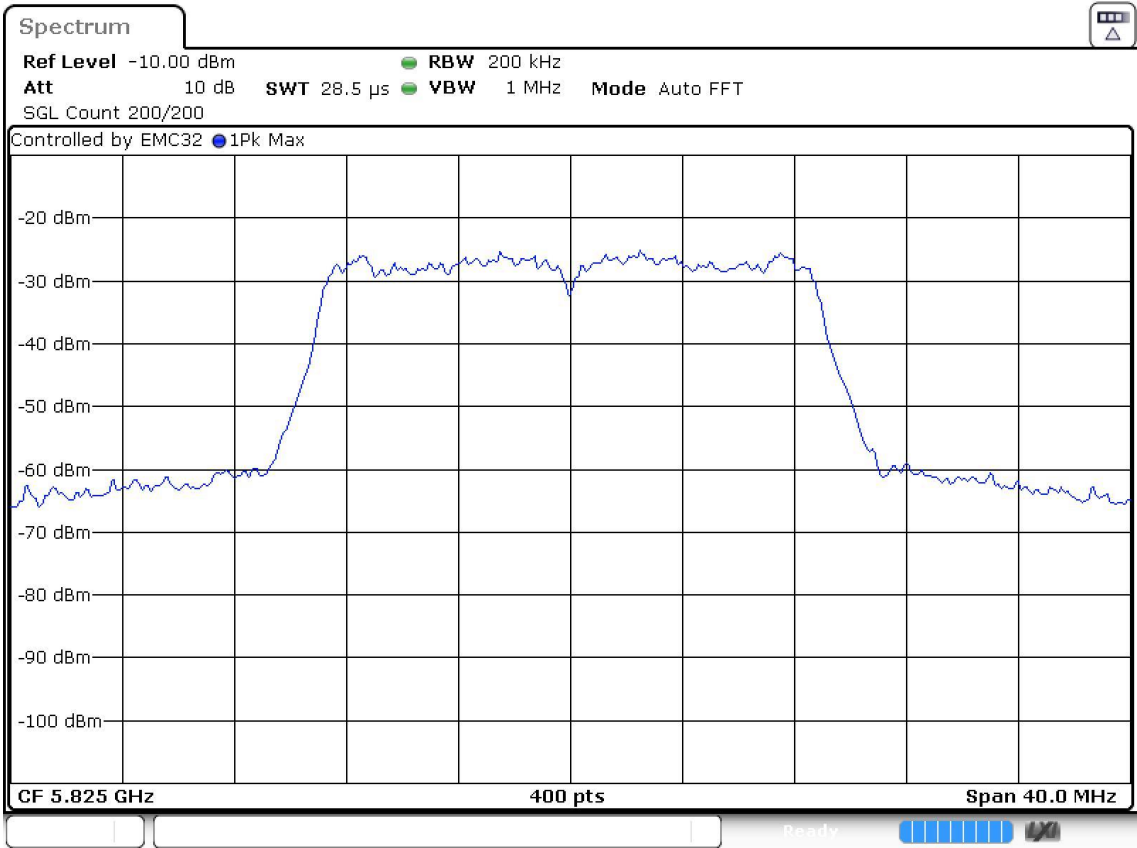
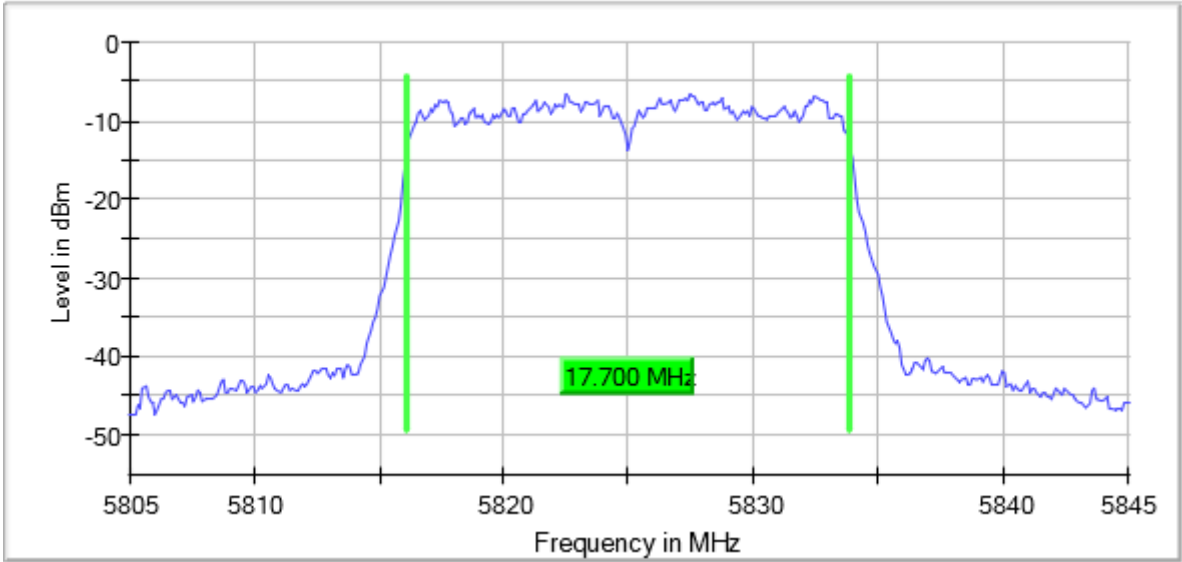
99 % Bandwidth



Active Port = 1
Modulation = 802.11ac VHT20 (OFDM MCS0) MIMO Mode = SISO
Frequency MHz = 5825.00000

Images:

99 % Bandwidth



Modulation: 802.11ac VHT40 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Occ Ch BW (MHz)
1	5755.00000	36.250
	5795.00000	36.250

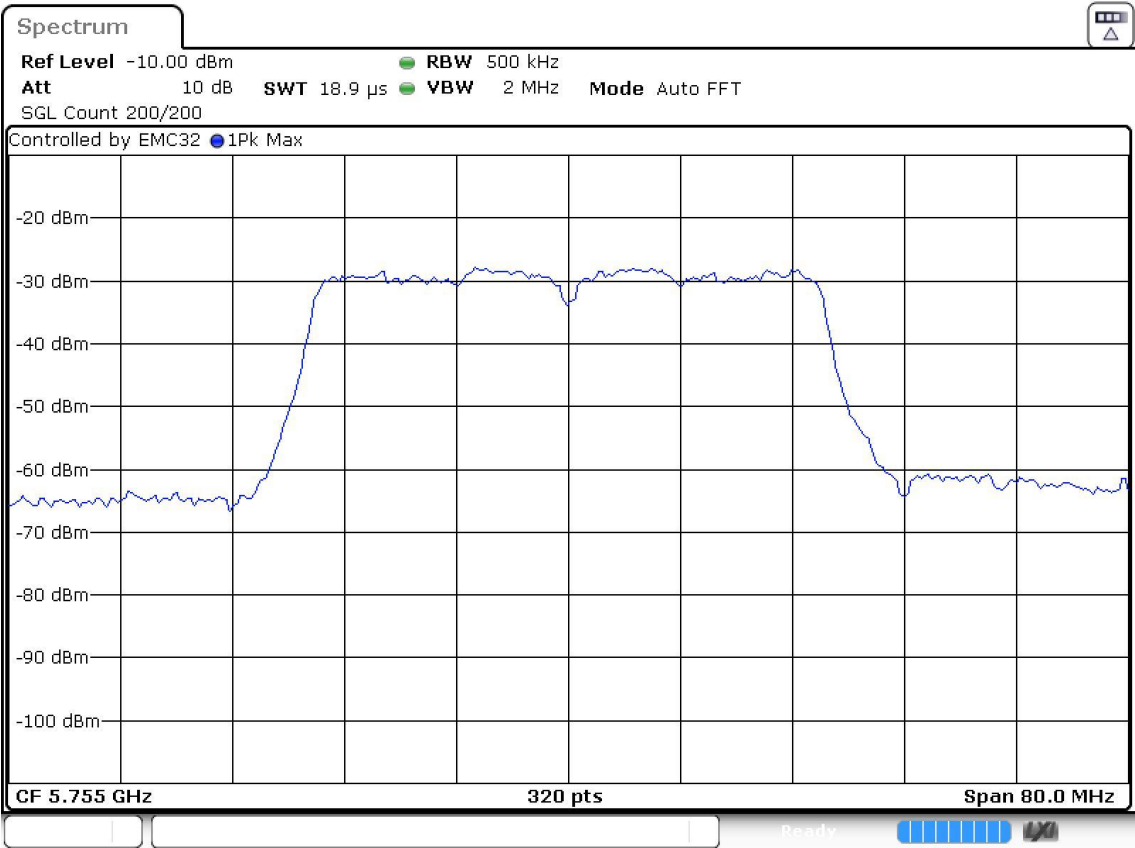
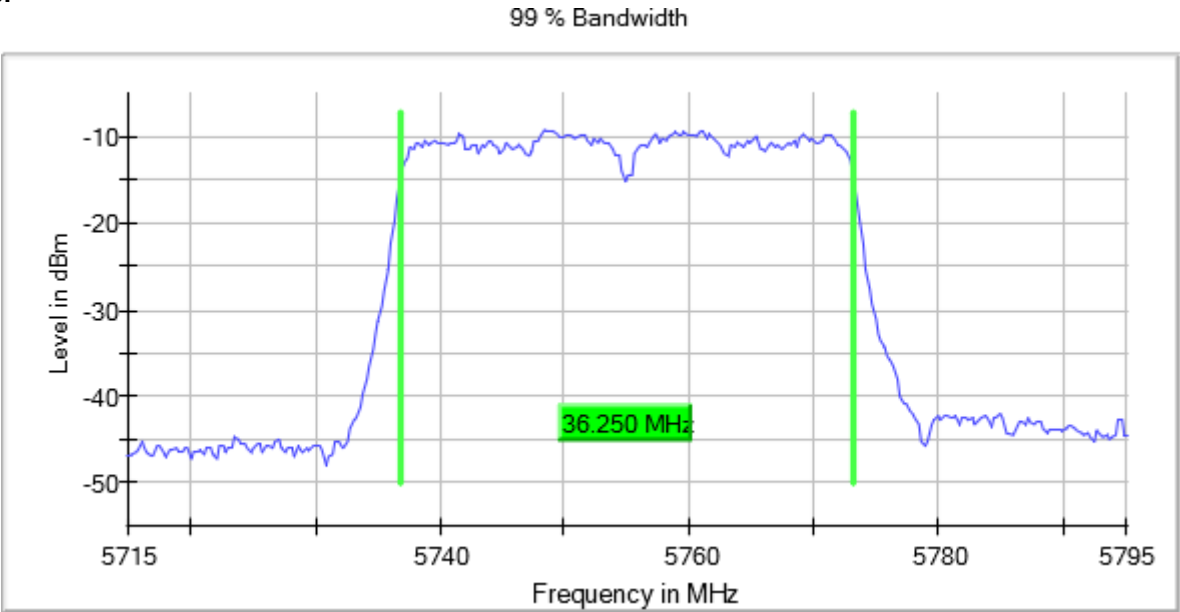
Verdict

Pass

Attachments

Active Port = 1
Modulation = 802.11ac VHT40 (OFDM MCS0) MIMO Mode = SISO
Frequency MHz = 5755.00000

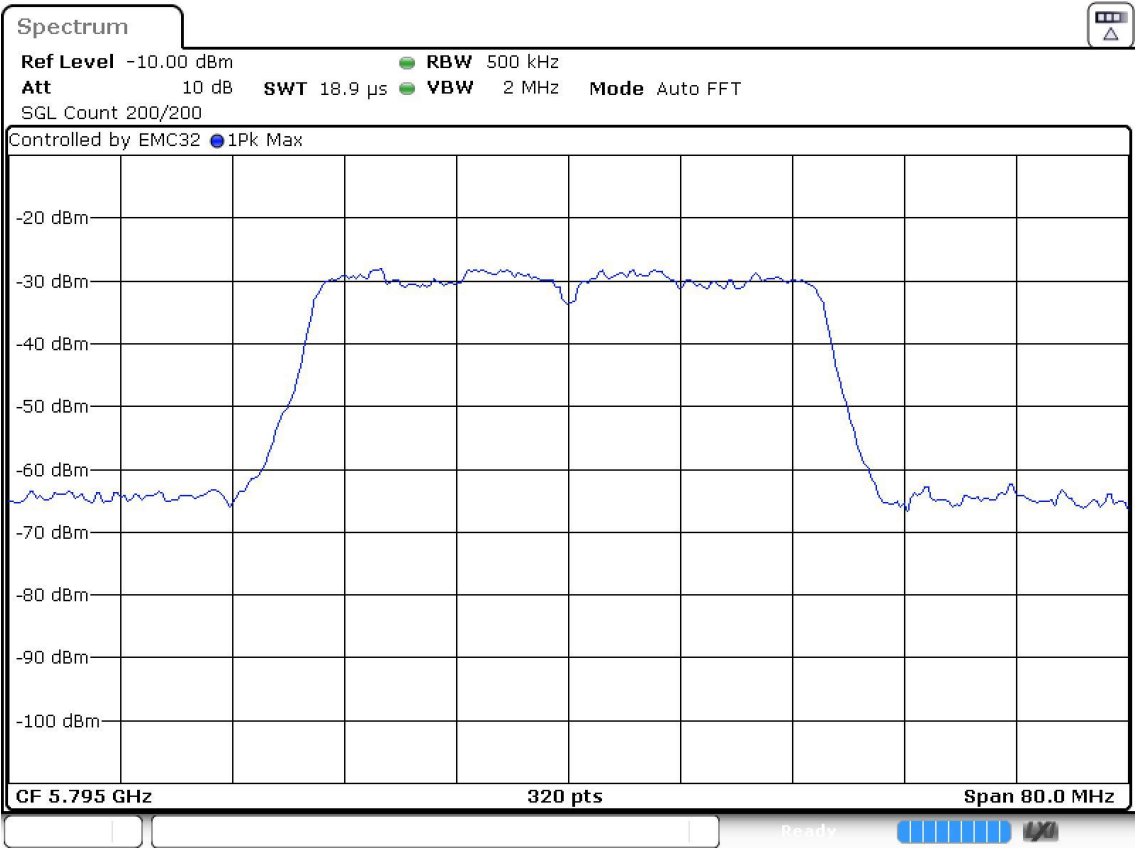
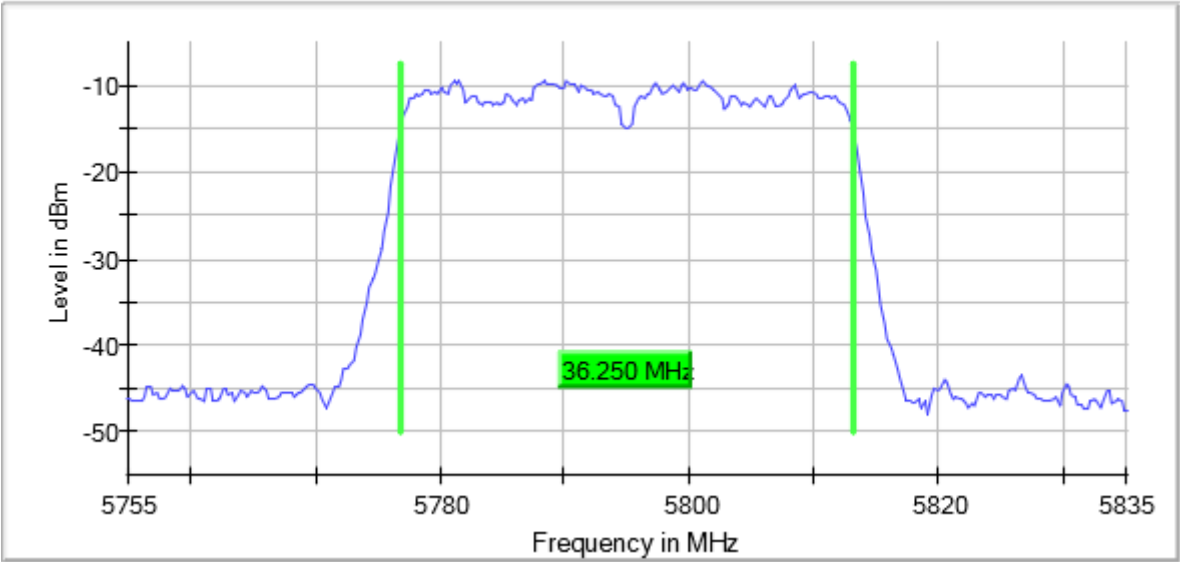
Images:



Active Port = 1
Modulation = 802.11ac VHT40 (OFDM MCS0) MIMO Mode = SISO
Frequency MHz = 5795.00000

Images:

99 % Bandwidth



MIMO Mode: SISO

Results

Port	Freq (MHz)	Occ Ch BW (MHz)
1	5775.00000	76.500

Verdict

Pass

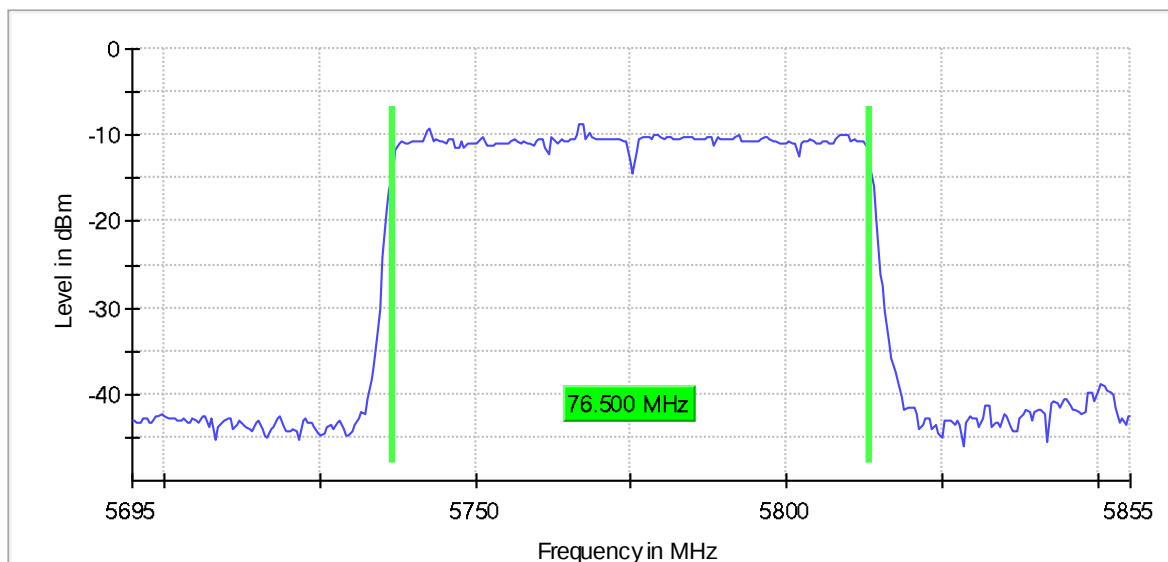
Attachments

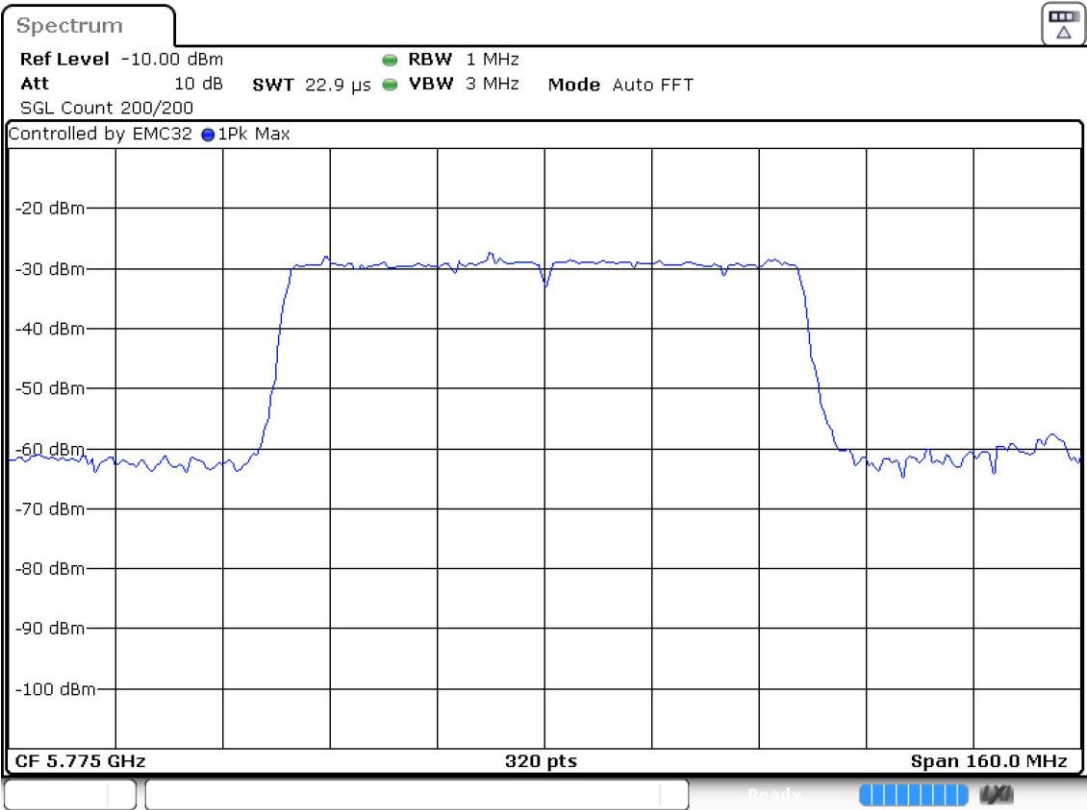
Frequency MHz = 5755.00000

Modulation = 802.11ac VHT40 (OFDM MCS0) MIMO Mode = SISO

Images:

99 %Bandwidth





Section 15.407 Subclause 15.403(i) [Ebw] Transmitter 26 dB Emission Bandwidth (EBW)

Limits

The 26 dB Emission Bandwidth was measured using the method according to point C) 1) of 789033 D02 General UNII Test Procedures New Rules v02r01.

This test was performed on all the supported modes of the EUT, in the worst data rates after preliminary testing:

- 802.11 n HT20: MCS0 SISO 1Tx.
- 802.11 n HT40: MCS0 SISO 1Tx.
- 802.11 ac VHT80: MCS0 SISO 1Tx.

Modulation: 802.11n HT20 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Ebw (MHz)
1	5745.00000	19.800
	5785.00000	20.100
	5825.00000	20.100

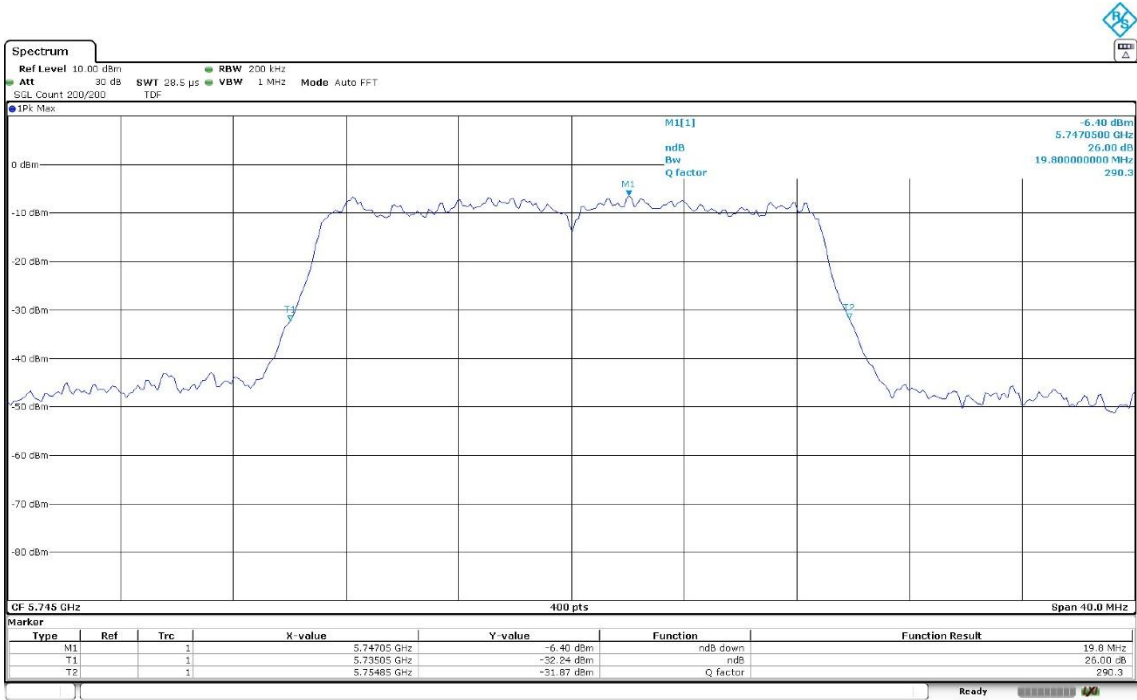
Verdict

Pass

Attachments

Active Port = 1
Frequency MHz = 5745.00000
Modulation = 802.11n HT20 (OFDM MCS0) MIMO Mode = SISO

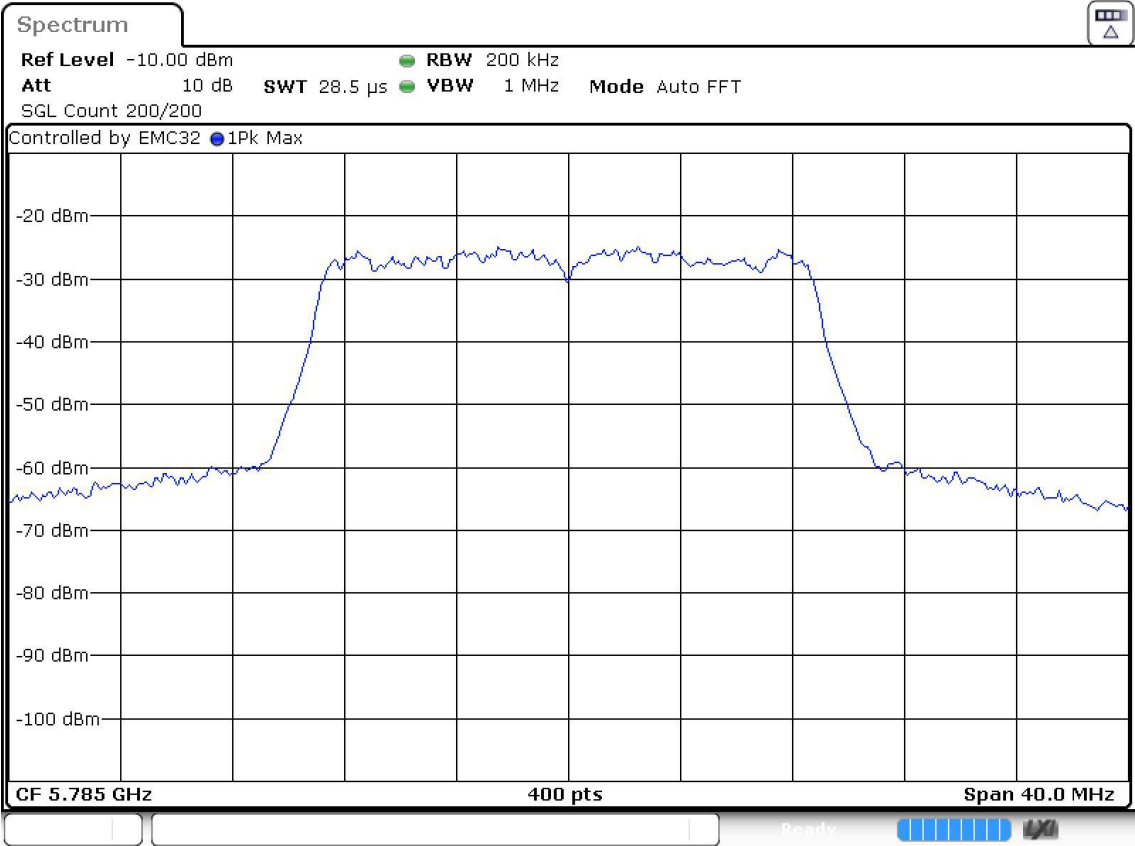
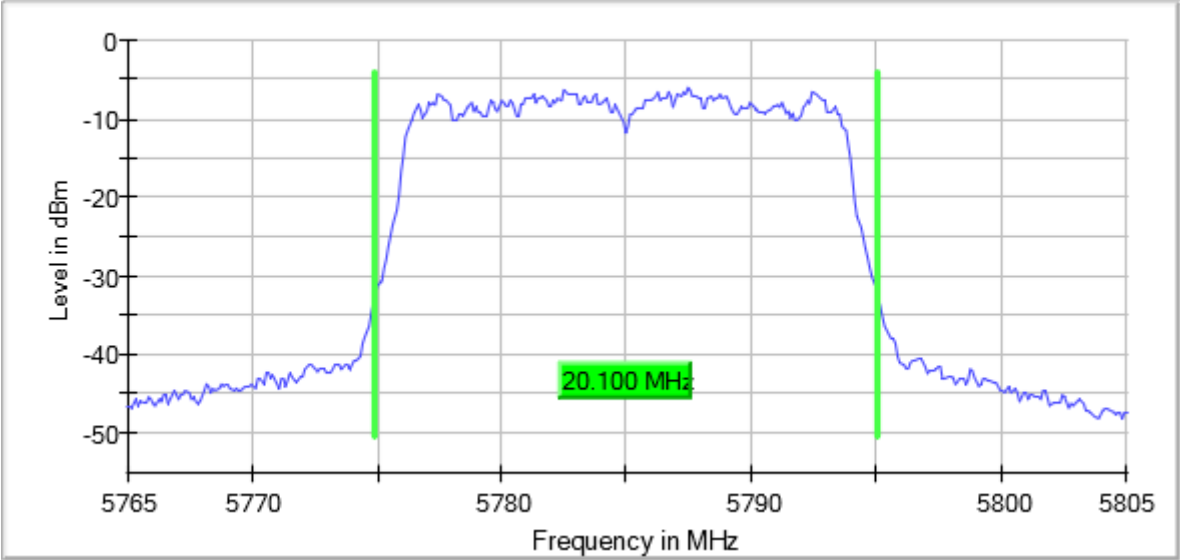
Images:



Active Port = 1
Frequency MHz = 5785.00000
Modulation = 802.11n HT20 (OFDM MCS0) MIMO Mode = SISO

Images:

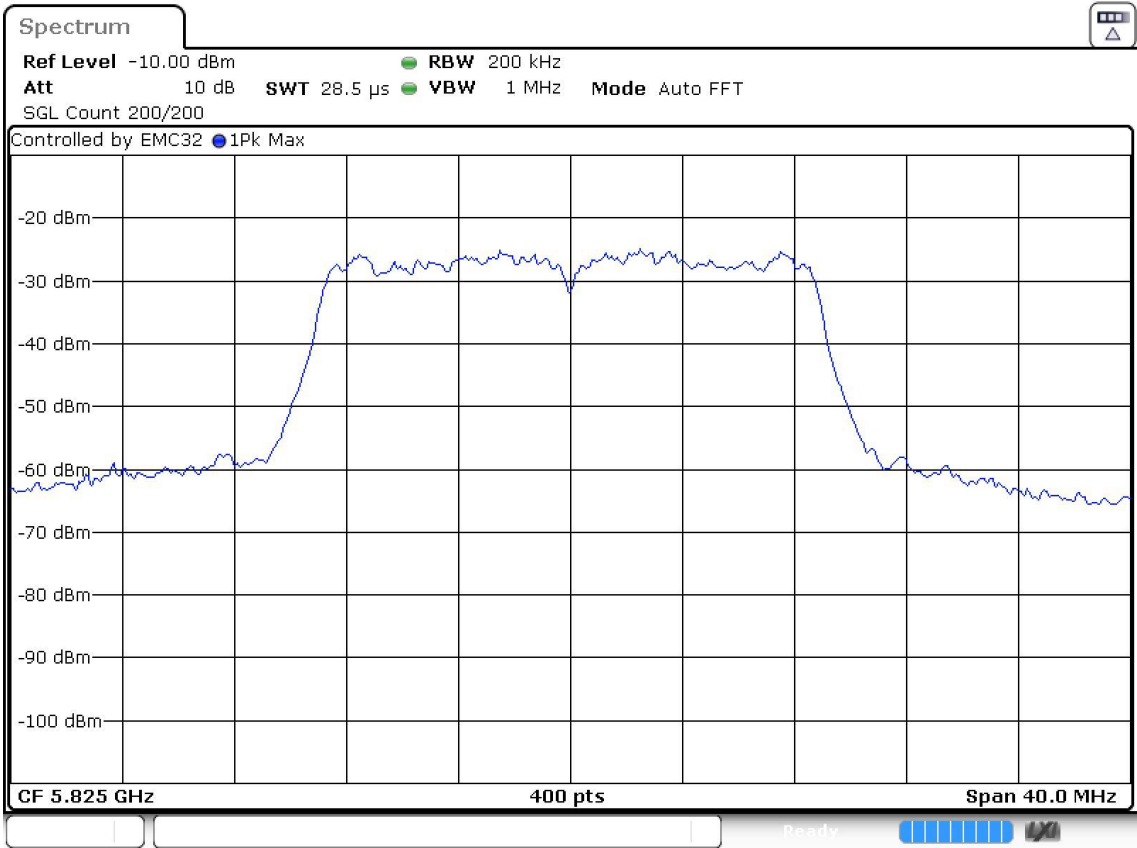
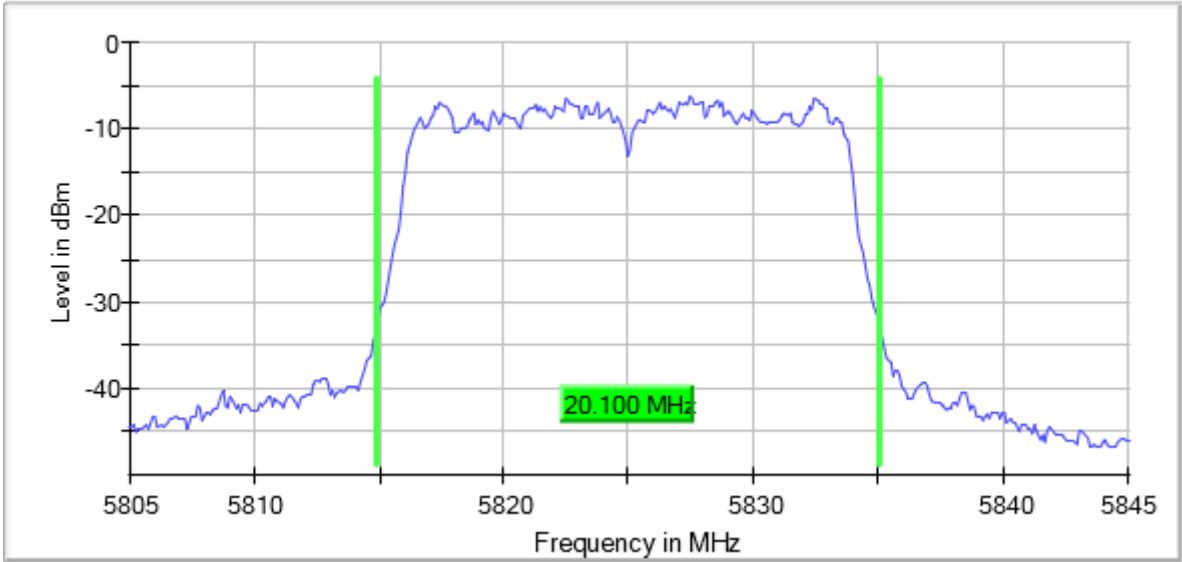
26 dB Bandwidth



Active Port = 1
Frequency MHz = 5825.00000
Modulation = 802.11n HT20 (OFDM MCS0) MIMO Mode = SISO

Images:

26 dB Bandwidth



Modulation: 802.11n HT40 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Ebw (MHz)
1	5755.00000	39.920
	5795.00000	40.525

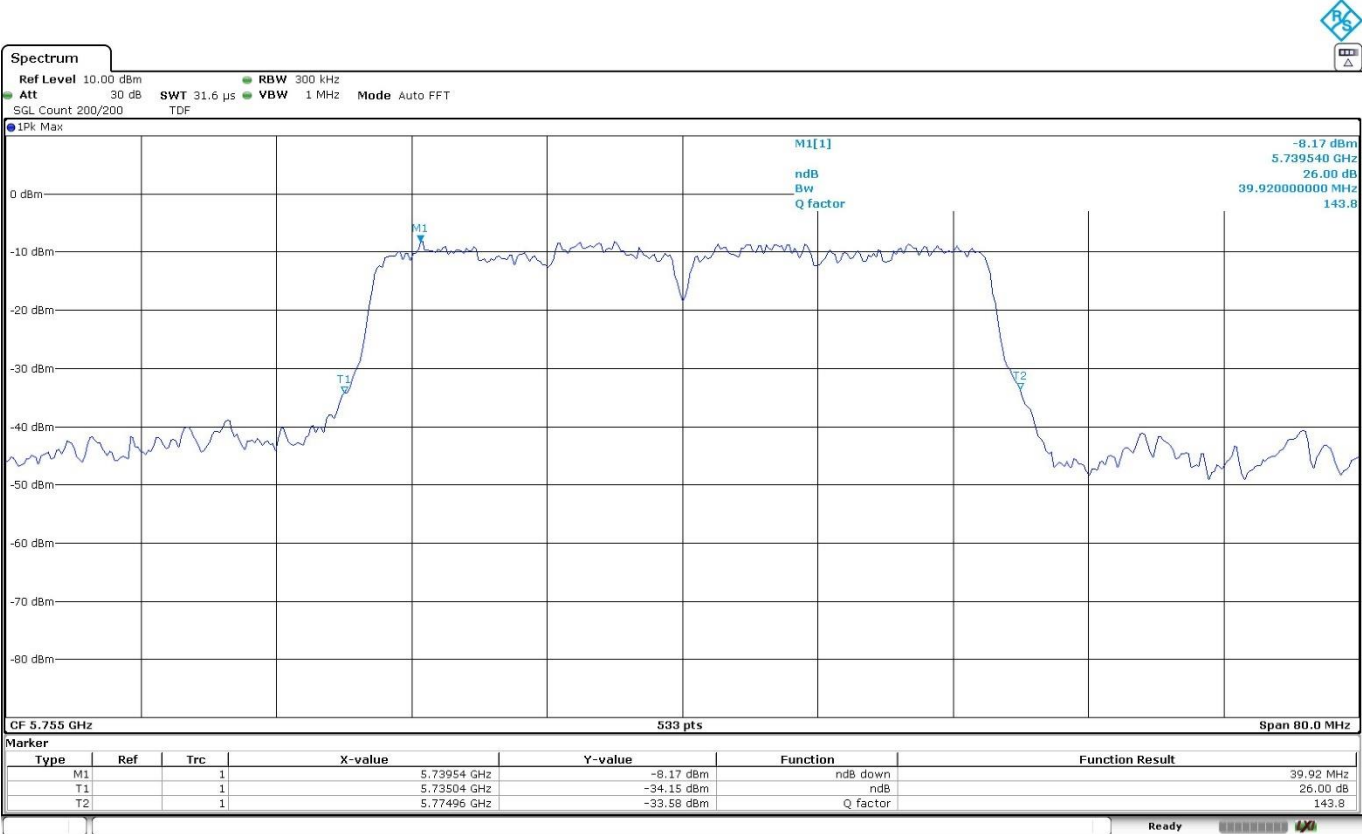
Verdict

Pass

Attachments

Active Port = 1
Frequency MHz = 5755.00000
Modulation = 802.11n HT40 (OFDM MCS0) MIMO Mode = SISO

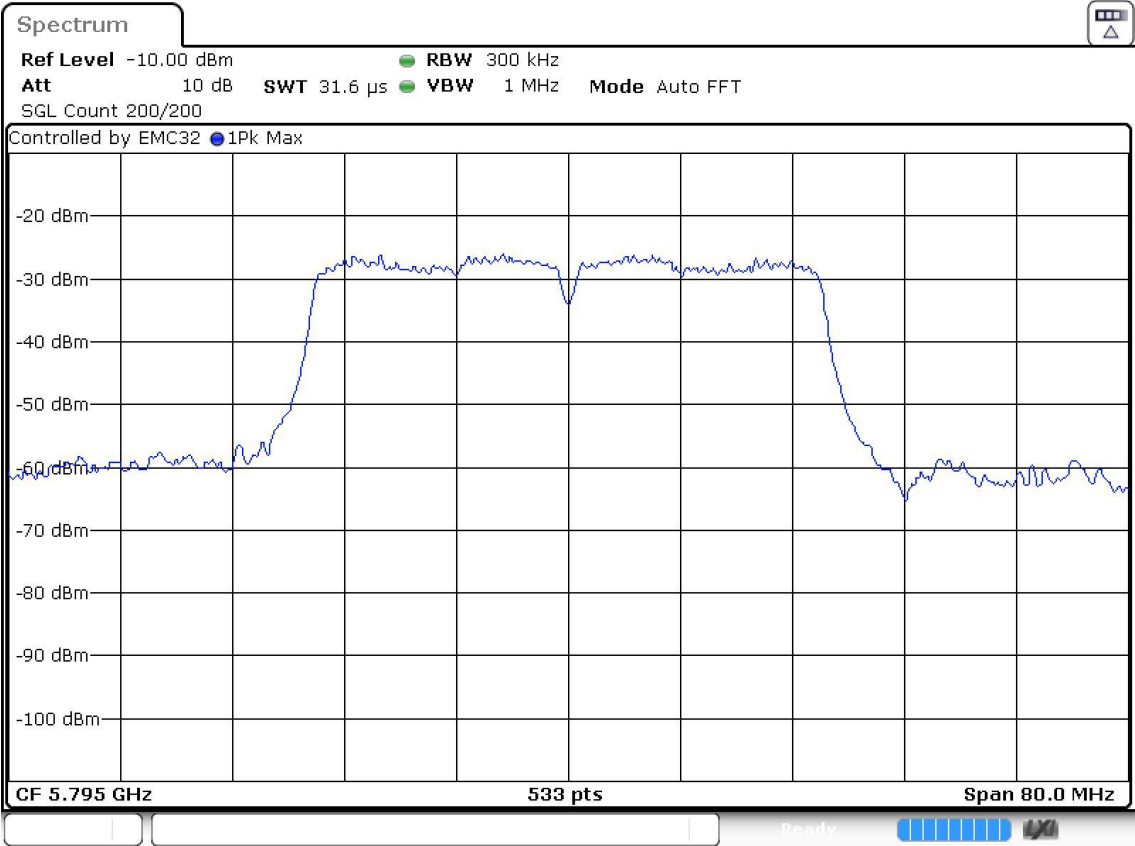
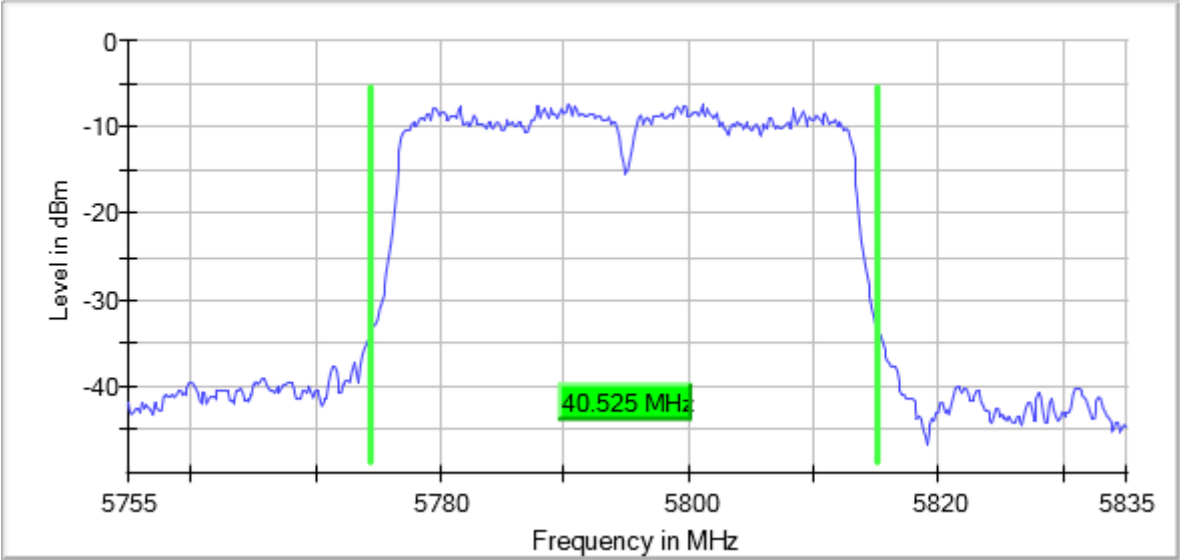
Images:



Active Port = 1
Frequency MHz = 5795.00000
Modulation = 802.11n HT40 (OFDM MCS0) MIMO Mode = SISO

Images:

26 dB Bandwidth



Modulation: 802.11a (OFDM 6 Mbit/s)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Ebw (MHz)
1	5745.00000	19.000
	5785.00000	19.700
	5825.00000	19.800

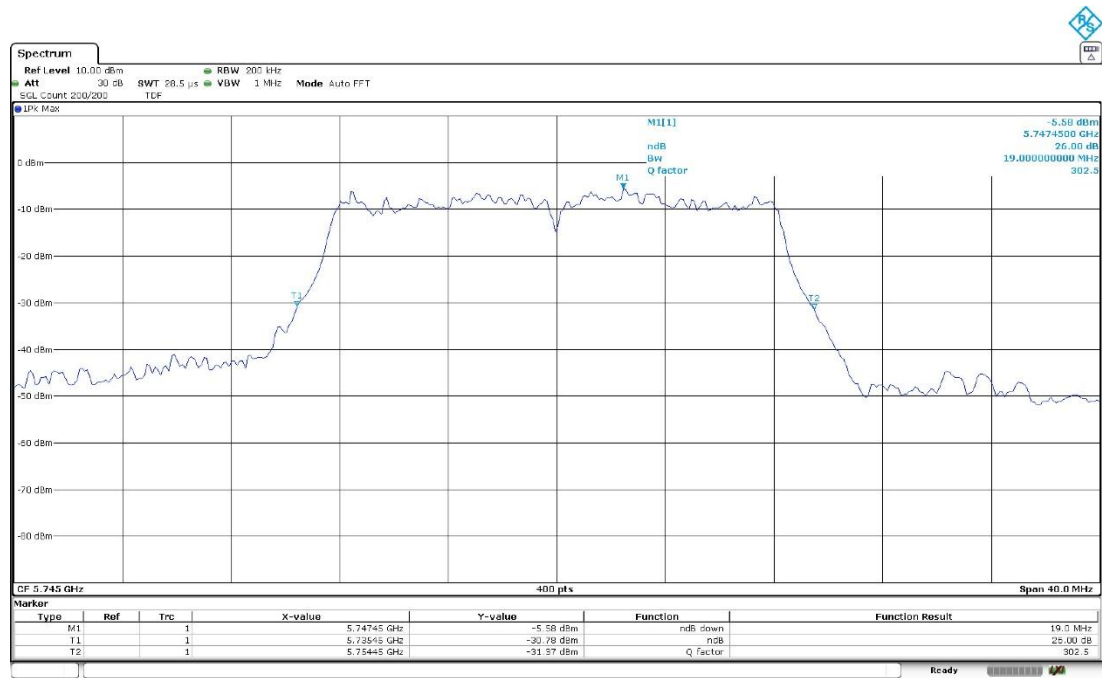
Verdict

Pass

Attachments

Active Port = 1 Frequency MHz = 5745.00000
Modulation = 802.11a (OFDM 6 Mbit/s) MIMO Mode = SISO

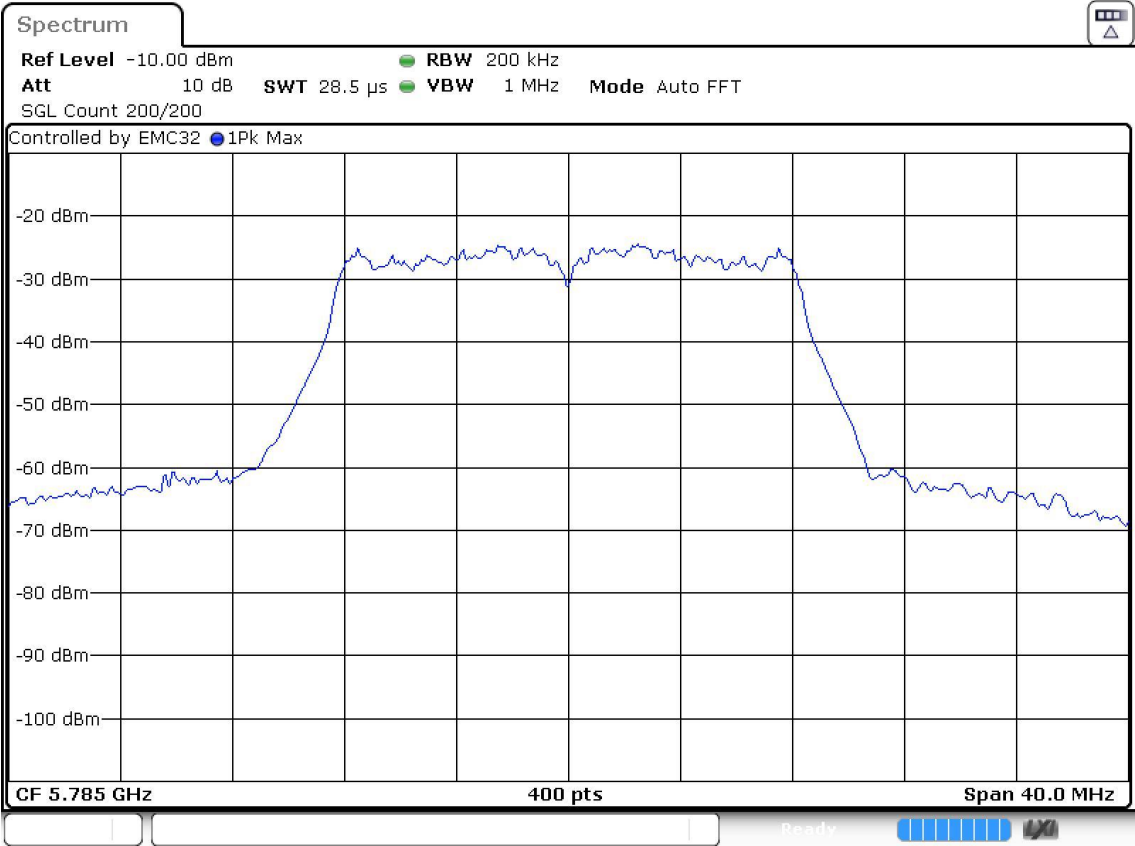
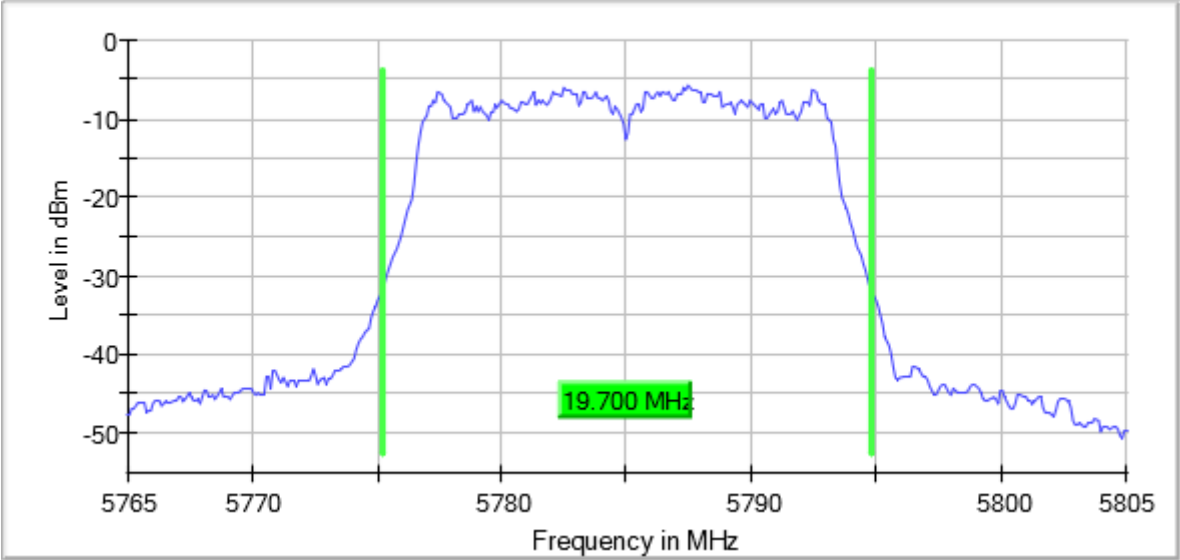
Images:



Active Port = 1 Frequency MHz = 5785.00000
Modulation = 802.11a (OFDM 6 Mbit/s) MIMO Mode = SISO

Images:

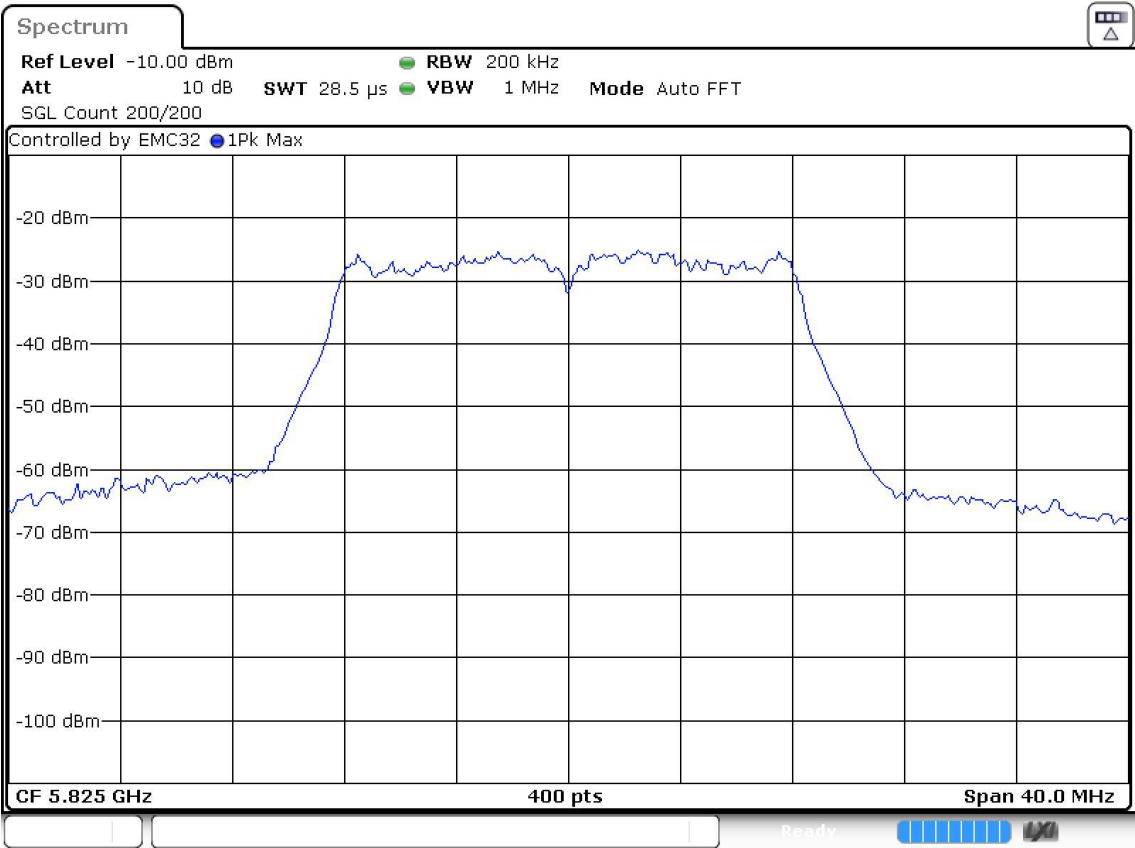
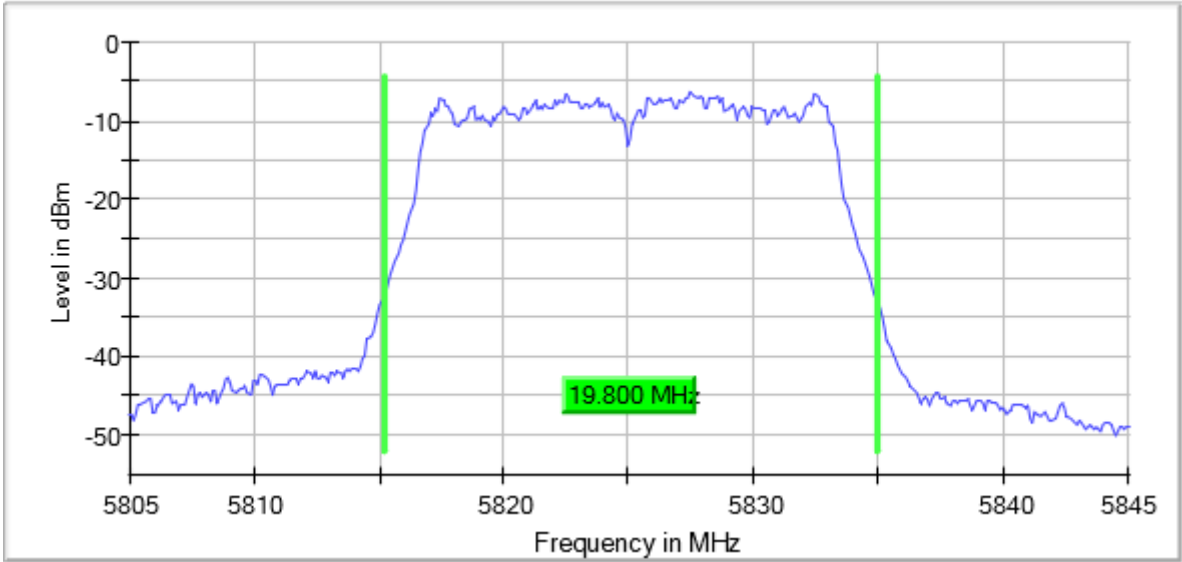
26 dB Bandwidth



Active Port = 1 Frequency MHz = 5825.00000
Modulation = 802.11a (OFDM 6 Mbit/s) MIMO Mode = SISO

Images:

26 dB Bandwidth



Modulation: 802.11ac VHT20 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Ebw (MHz)
1	5745.00000	19.900
	5785.00000	20.300
	5825.00000	20.200

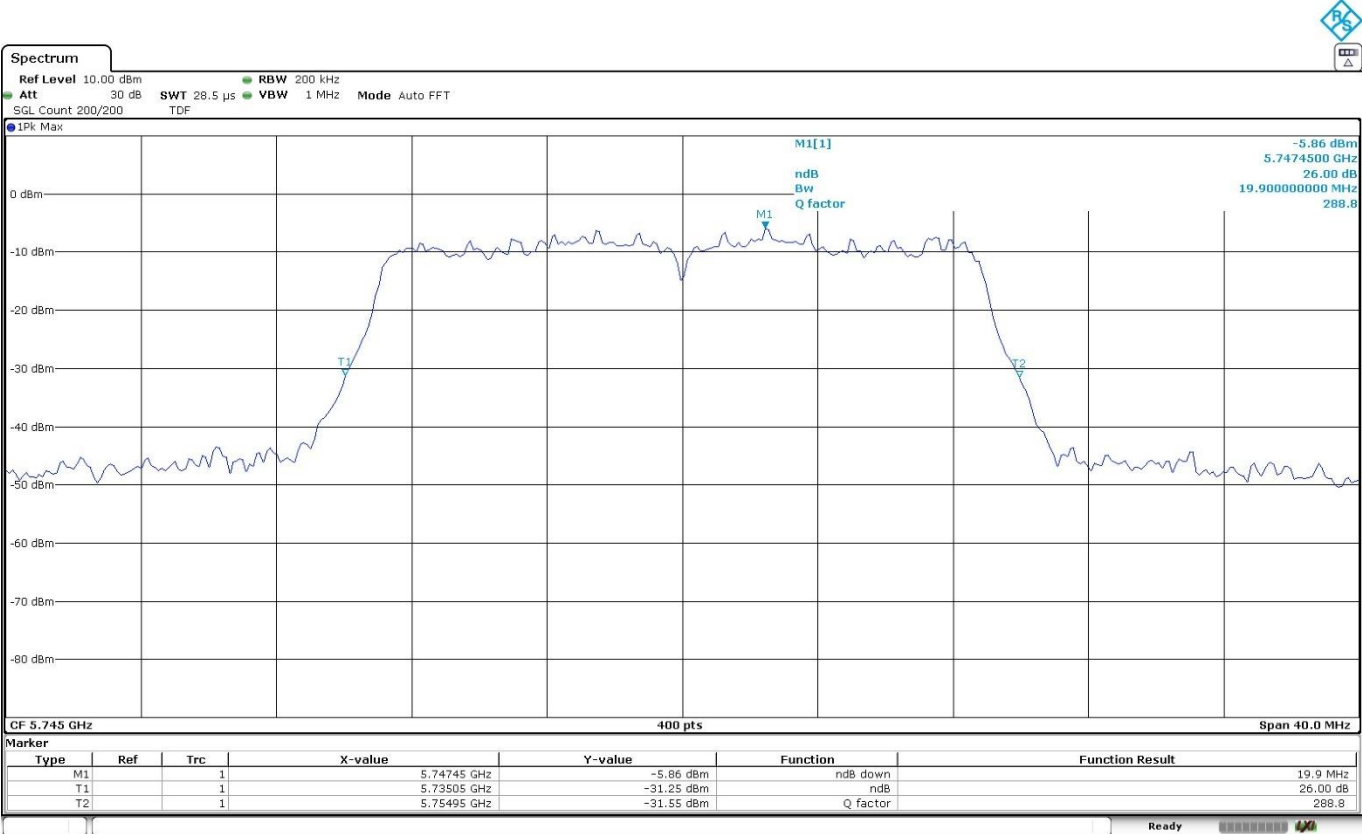
Verdict

Pass

Attachments

Active Port = 1
Frequency MHz = 5745.00000
Modulation = 802.11ac VHT20 (OFDM MCS0) MIMO Mode = SISO

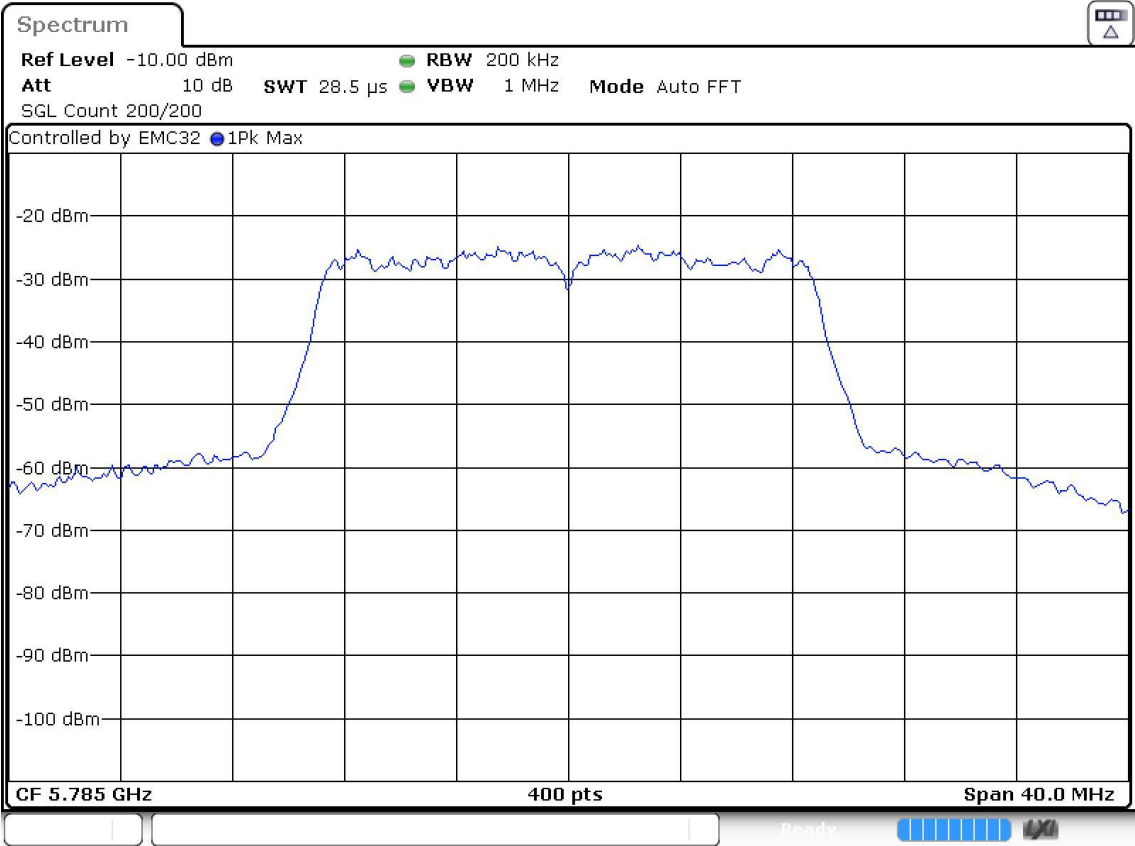
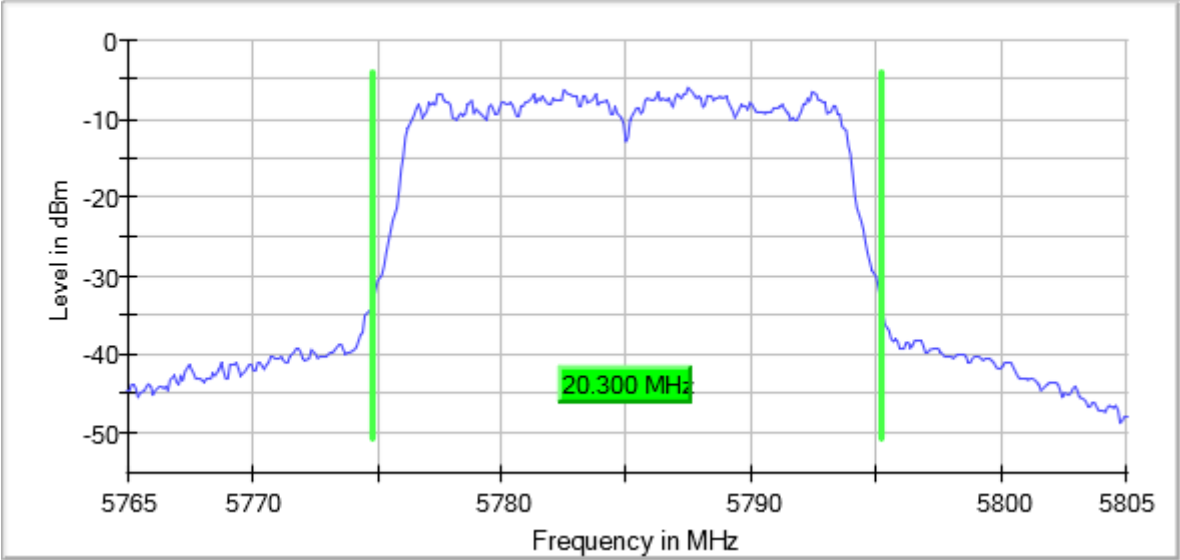
Images:



Active Port = 1
Modulation = 802.11ac VHT20 (OFDM MCS0) MIMO Mode = SISO
Frequency MHz = 5785.00000

Images:

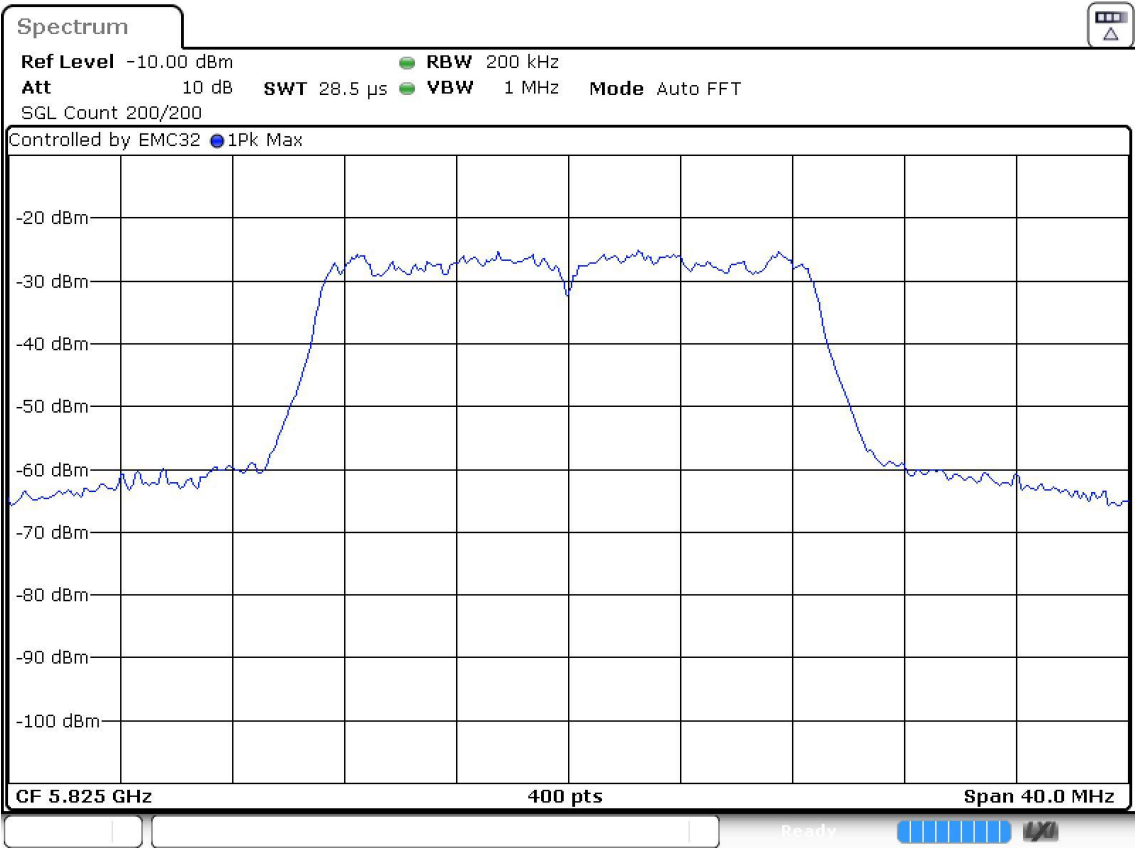
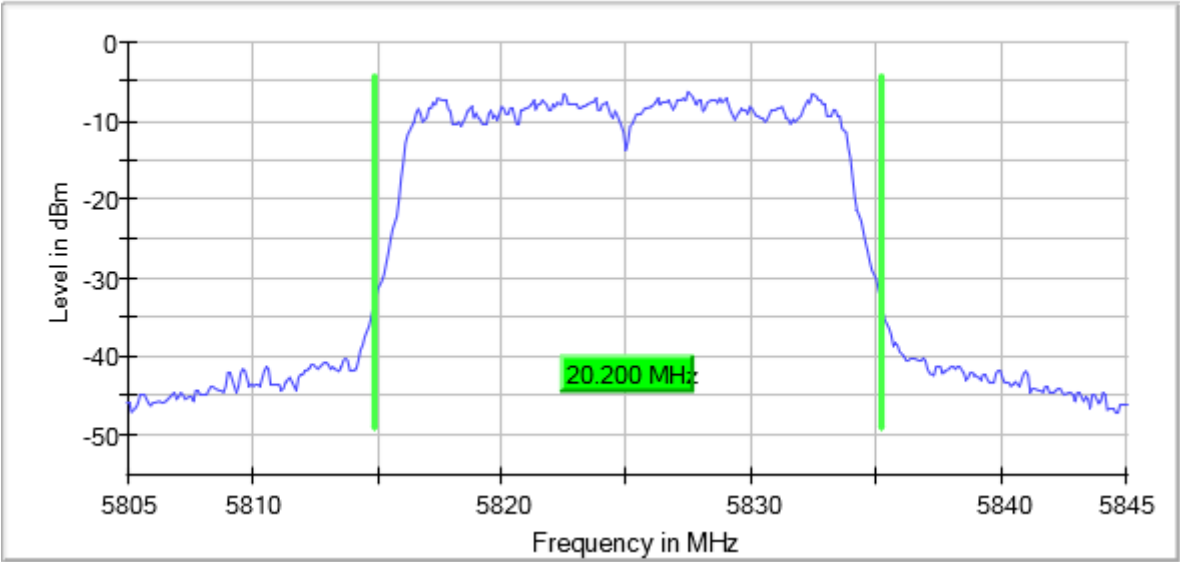
26 dB Bandwidth



Active Port = 1
Modulation = 802.11ac VHT20 (OFDM MCS0) MIMO Mode = SISO
Frequency MHz = 5825.00000

Images:

26 dB Bandwidth



Modulation: 802.11ac VHT40 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Ebw (MHz)
1	5755.00000	39.620
	5795.00000	40.525

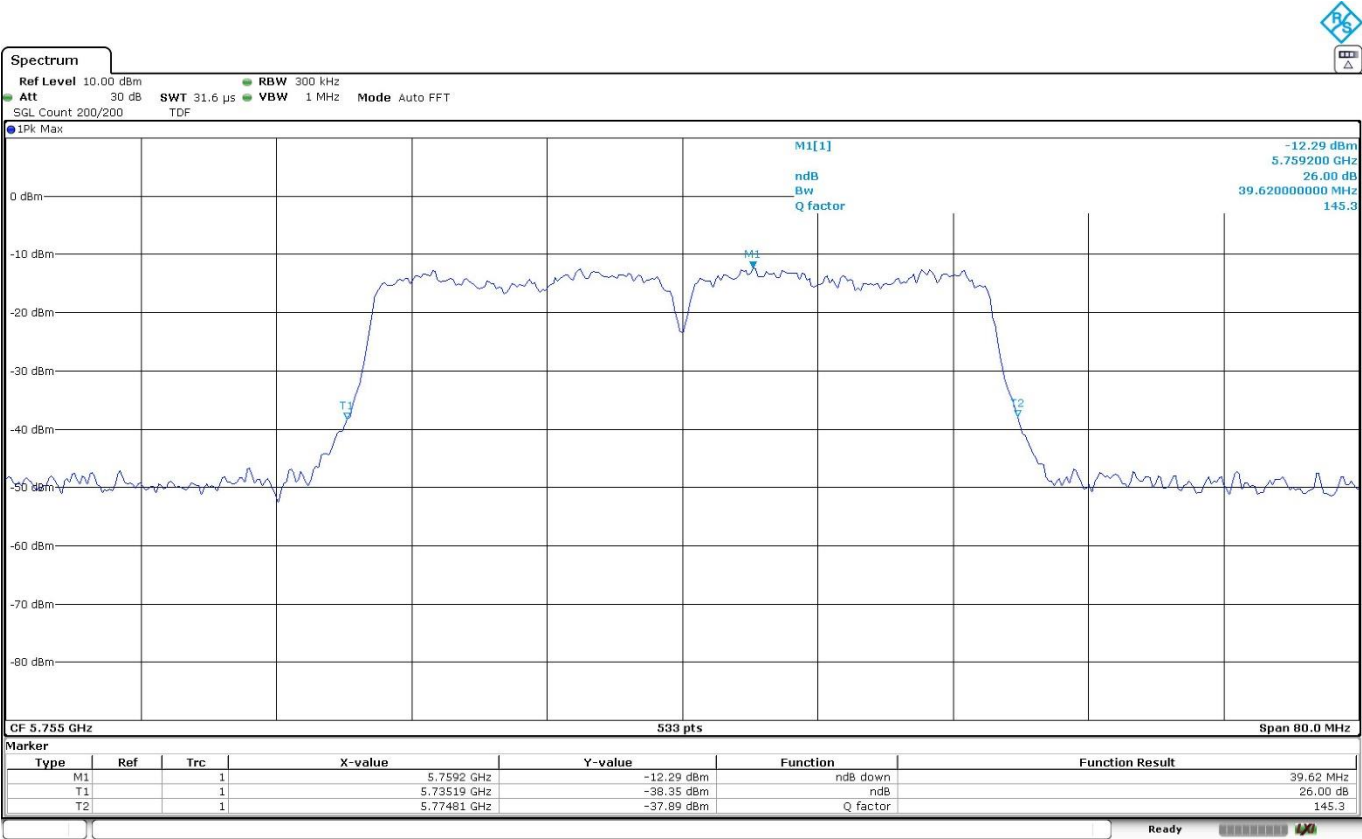
Verdict

Pass

Attachments

Active Port = 1
Frequency MHz = 5755.00000
Modulation = 802.11ac VHT40 (OFDM MCS0) MIMO Mode = SISO

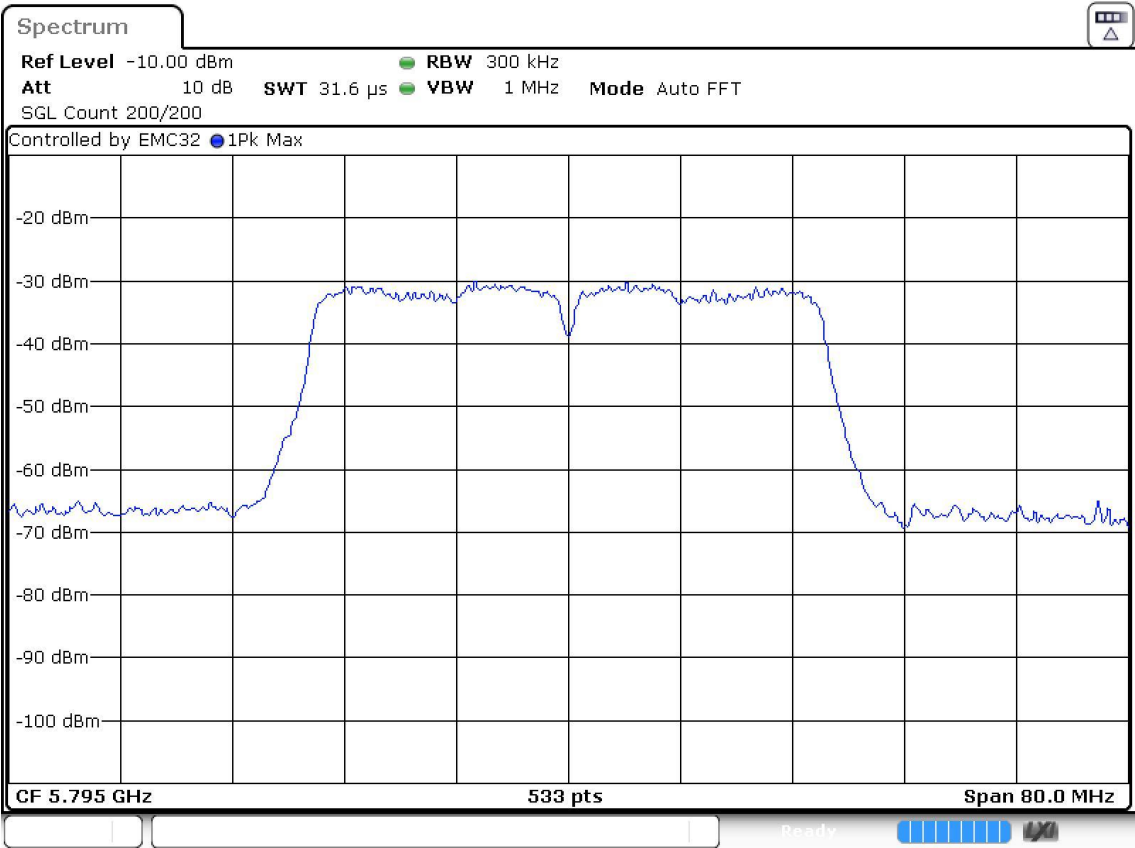
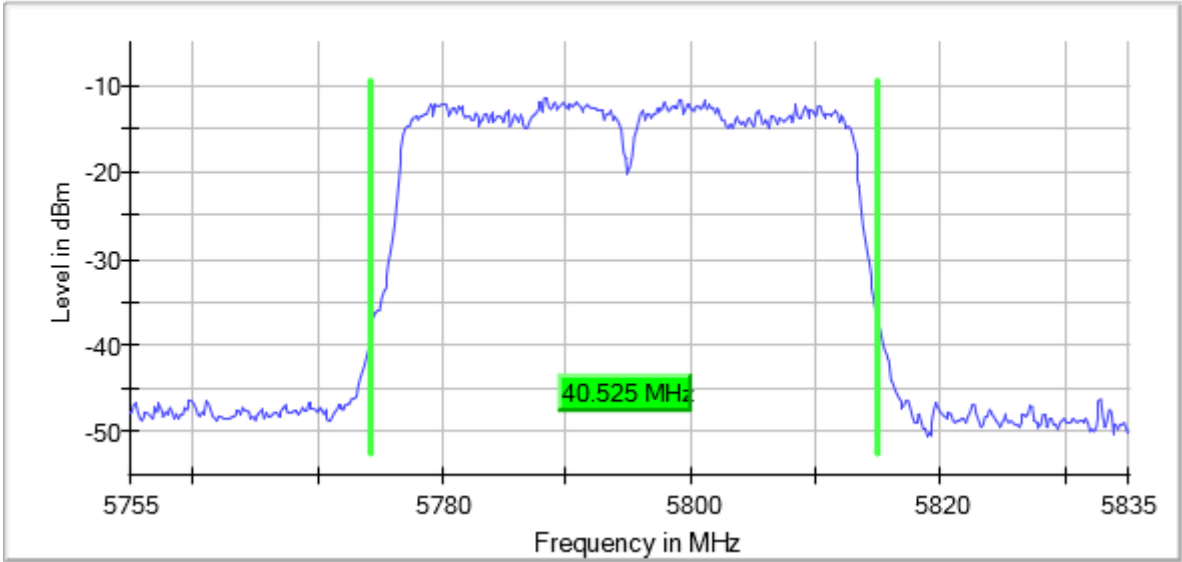
Images:



Active Port = 1
Modulation = 802.11ac VHT40 (OFDM MCS0) MIMO Mode = SISO
Frequency MHz = 5795.00000

Images:

26 dB Bandwidth



Modulation: 802.11ac VHT80 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Ebw (MHz)
1	5775.00000	81.500

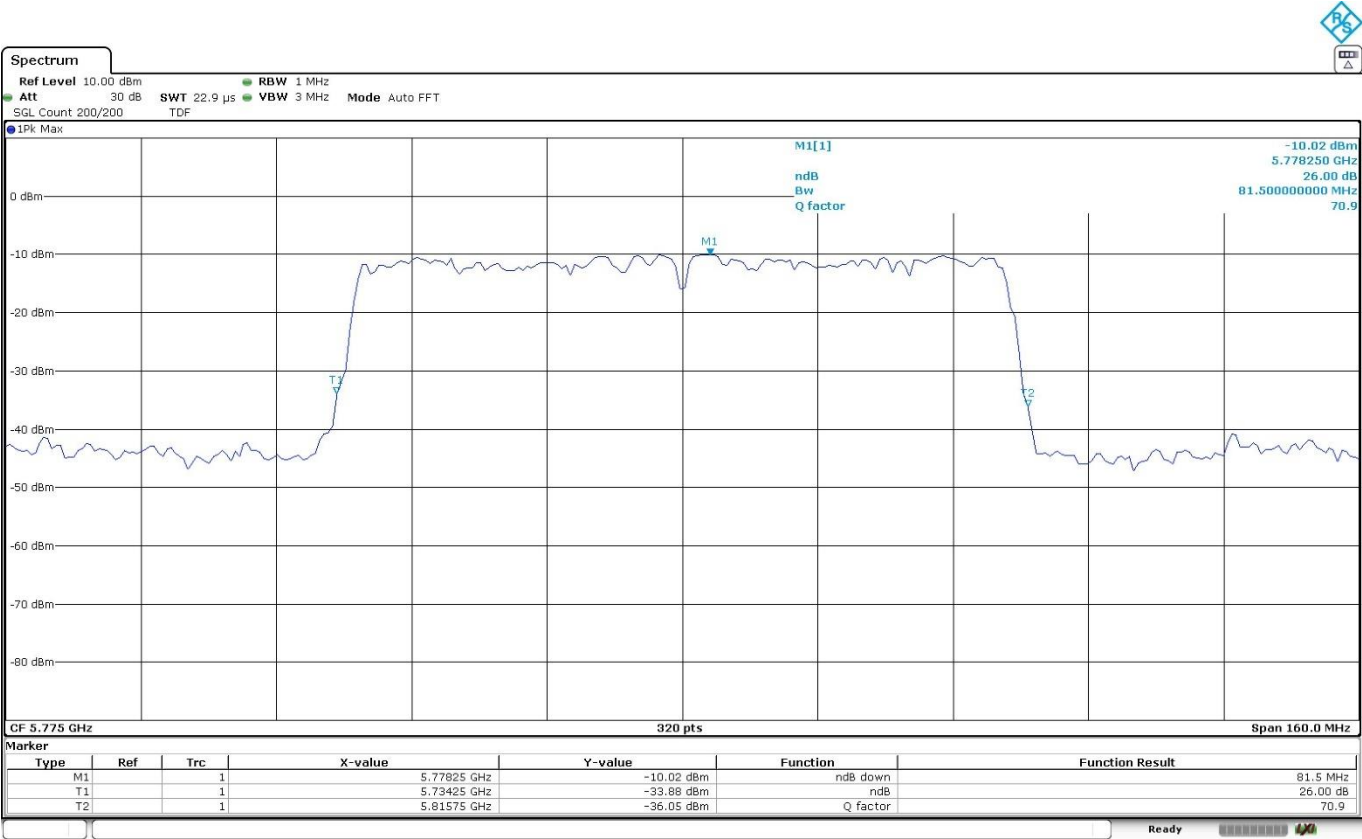
Verdict

Pass

Attachments

Active Port = 1
Frequency MHz = 5775.00000
Modulation = 802.11ac VHT80 (OFDM MCS0) MIMO Mode = SISO

Images:



RSS-247 6.2.4.2 / FCC 15.407 (b) (4) (6) [Rse] Transmitter Out of Band Radiated Emissions For transmitters operating solely in the 5.725-5.850 GHz band

Limits

* FCC 15.407: For transmitters operating in the 5.725–5.85 GHz band: All emissions shall be limited to a level of –27 dBm/MHz (68.23 dBµV/m at 3 m distance) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)):

Frequency Range (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 40000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

* RSS-247:

Attenuation below the general field strength limits specified in RSS-Gen is not required.

Frequency range tested for Radiated emissions:

Start frequency: no radiofrequency signal generated in the device found below 10th sub-harmonic, no further investigation required.

Stop frequency: it has been performed the radiated spurious emissions until 10th harmonic.

MIMO Mode: SISO

Tests results for worst-case 20MHz Modulation: 802.11ac VHT20 (OFDM MCS0)

Tests results for worst-case 40MHz Modulation: 802.11n HT40 (OFDM MCS0)

Tests results for worst-case 80MHz Modulation: 802.11ac VHT80 (OFDM MCS0)

Duty Cycle correction for 20MHz: +0.18dB

Duty Cycle correction for 40MHz: +0.39dB

Duty Cycle correction for 80MHz: +0.92dB

Frequency Range GHz = [0.03, 1]

The spurious frequencies detected do not depend on the channel neither the modulation

Results

Port	Freq Rng (GHz)	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Unwanted Lvl Corrected (dBµV/m)	PoI	Detector
1	[0.03, 1]	34.627	31.01	31.19	V	QP
		34.627	34.56	34.74	V	PK
		41.621	24.63	24.81	V	PK
		41.621	21.54	21.72	V	QP
		42.077	35.33	35.51	V	PK
		42.077	33.50	33.68	V	QP
		42.930	36.89	37.07	V	PK
		42.930	35.23	35.41	V	QP
		43.784	33.25	33.48	V	QP
		43.784	34.88	35.06	V	PK
		51.049	34.12	34.30	V	PK
		51.049	31.60	31.78	V	QP

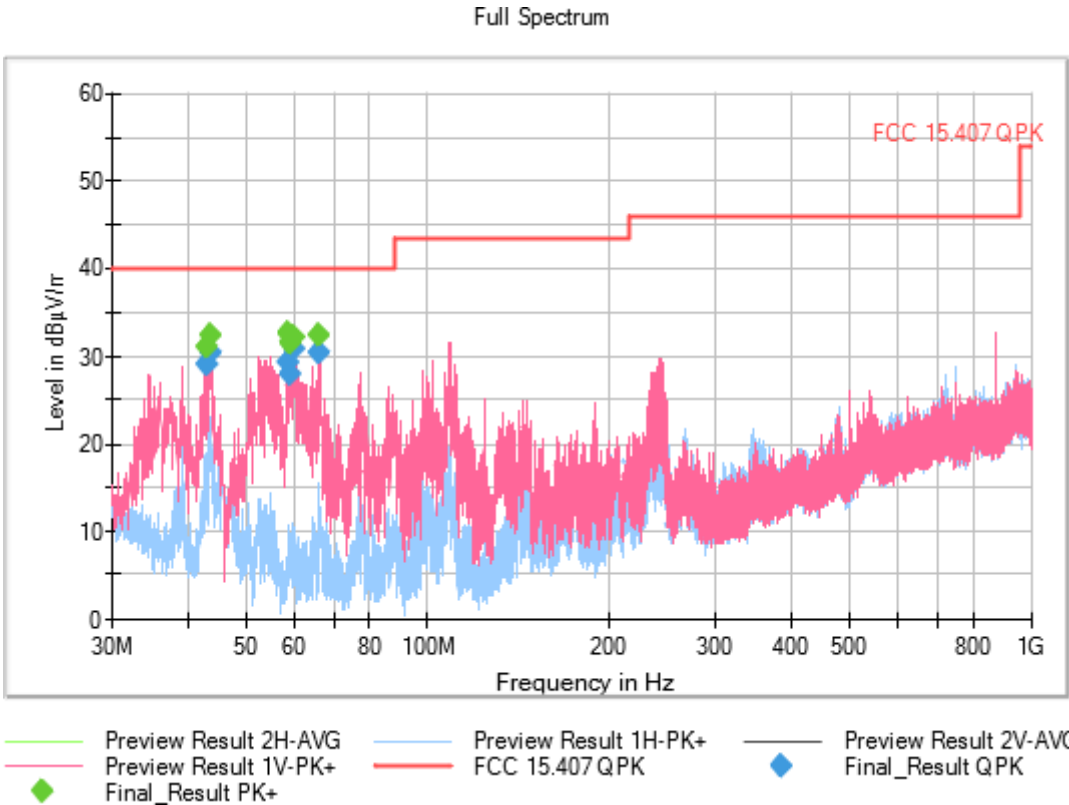
Verdict

Pass

Attachments

Active Port = 1
Frequency Range GHz = [0.03, 1]
The spurious frequencies detected do not depend on the transmission Band or the Modulation
MIMO Mode = SISO

Images:



Frequency Range GHz = [1, 17]

Modulation: 802.11ac VHT20 (OFDM MCS0)

MIMO Mode: SISO

Results

No spurious frequencies detected at less than 20 dB below the limit.

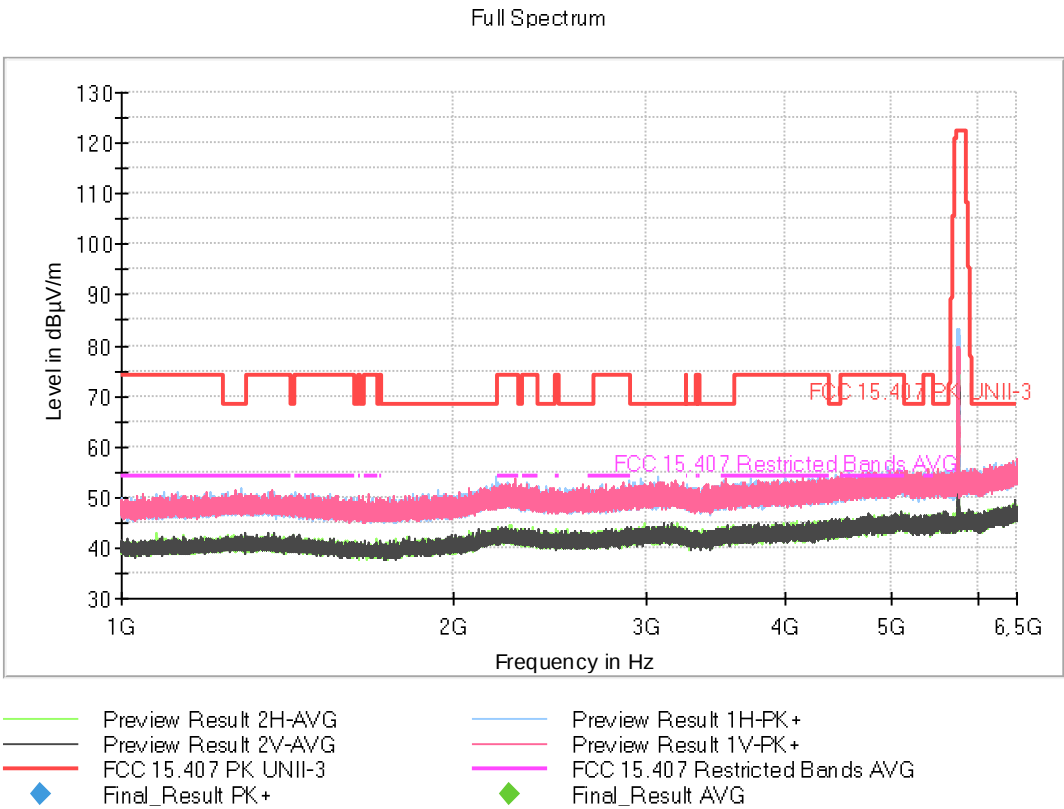
Verdict

Pass

Attachments

Operation Band MHz = [5725, 5850] Active Port = 1
Frequency Range GHz = [1, 6.5] Frequency MHz = 5745.00000
Modulation = 802.11ac VHT20 (OFDM MCS0) MIMO Mode = SISO

Images:

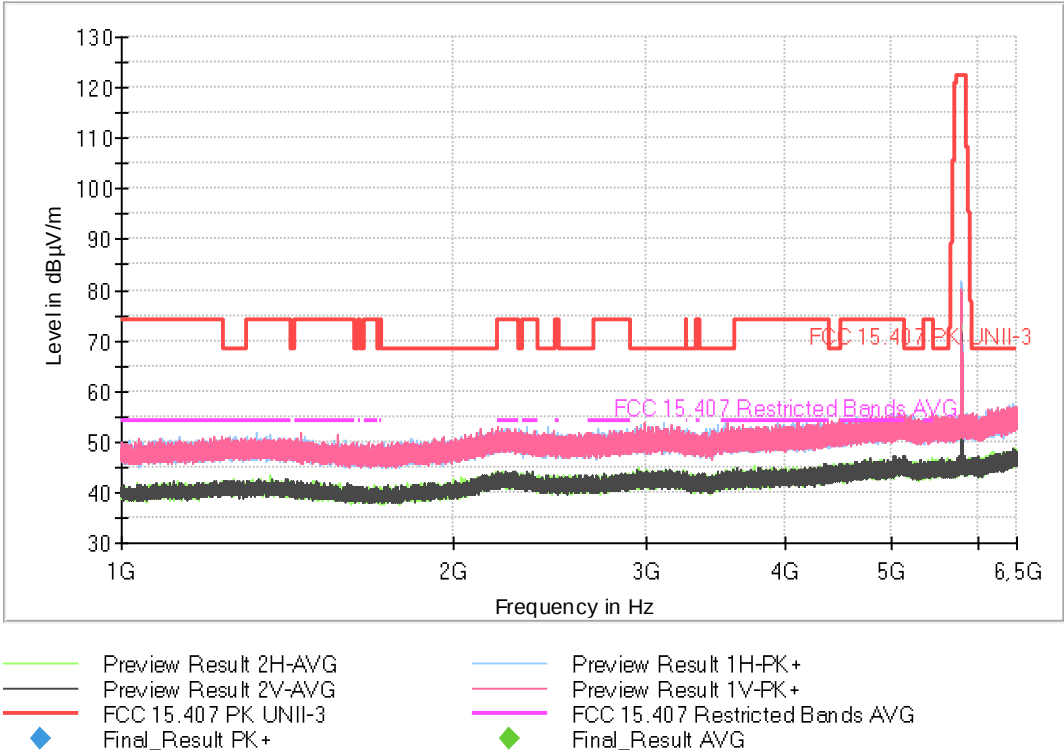


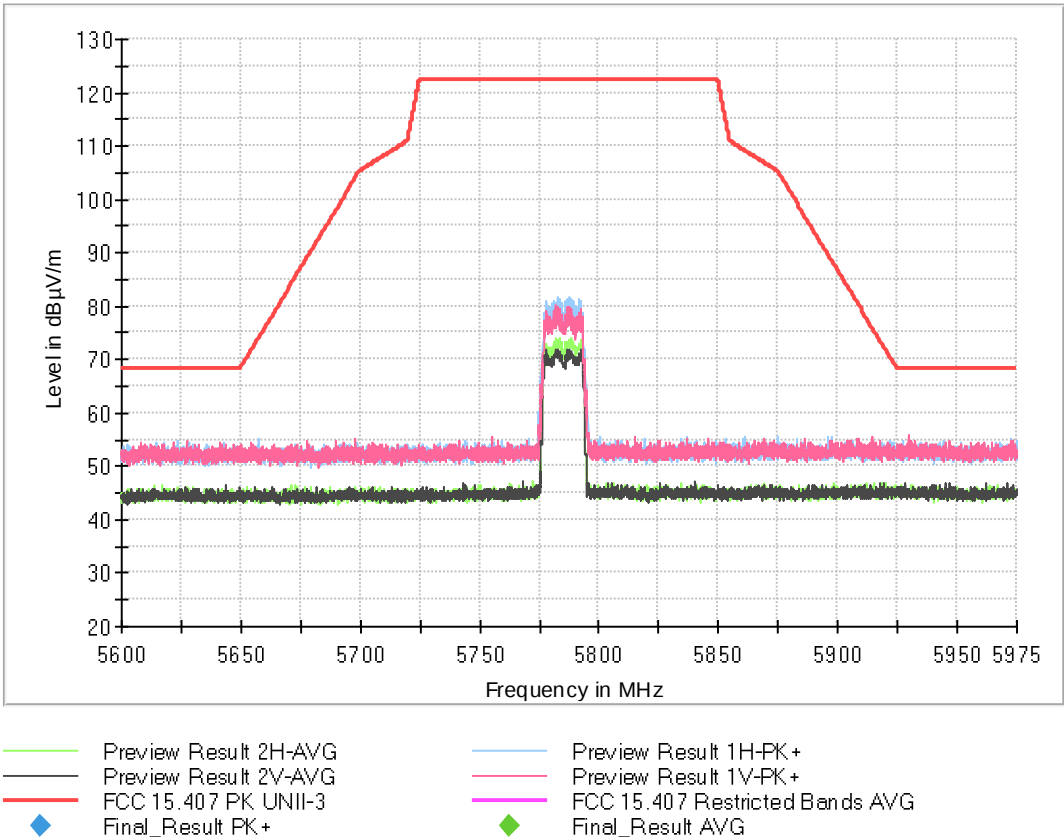


Operation Band MHz = [5725, 5850] Active Port = 1
Frequency Range GHz = [1, 6.5] Frequency MHz = 5785.00000
Modulation = 802.11ac VHT20 (OFDM MCS0) MIMO Mode = SISO

Images:

Full Spectrum





Operation Band MHz = [5725, 5850] Active Port = 1
Frequency Range GHz = [1, 6.5] Frequency MHz = 5825.00000
Modulation = 802.11ac VHT20 (OFDM MCS0) MIMO Mode = SISO

Images:

