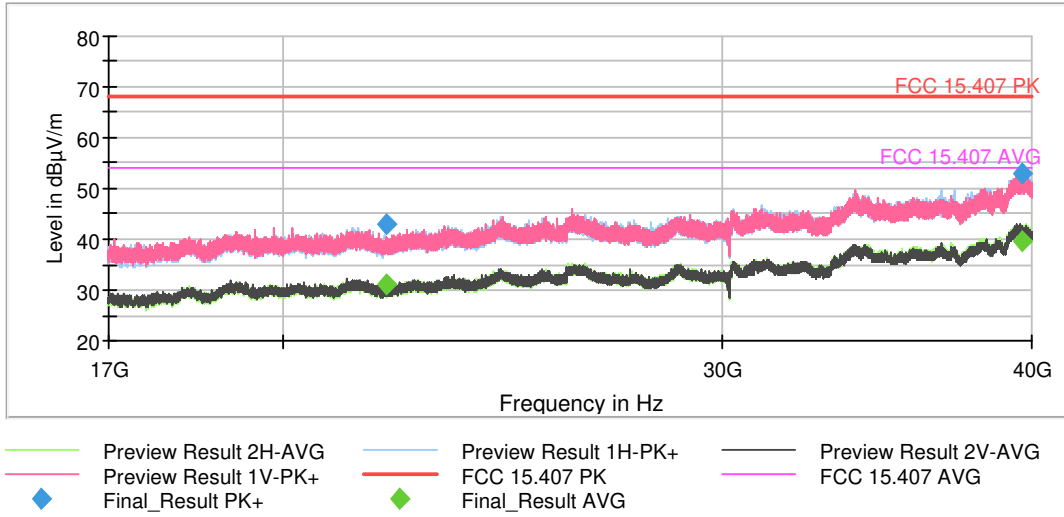


**FREQUENCY RANGE 17 - 40 GHz (SISO worst-case):**

This plot is valid for all the Channels and all the modulation modes and bandwidths.



## FCC 15.407 (b)(1) / RSS-247 6.2.1.2. Band Edge Radiated Emissions

### SPECIFICATION:

For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of  $-27$  dBm/MHz ( $68.20$  dB $\mu$ V/m at 3 m distance).

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 ( $\mu$ V/m)	Field strength (dB $\mu$ V/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	300
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.

### RESULTS:

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

Measurements were made in both horizontal and vertical planes of polarization.

The situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° to find the maximum radiated emission.

All emissions outside of the 5.47 - 5.725 GHz band shall not exceed an EIRP of  $-27$ dBm/MHz. There are restricted bands of operation below band edge at 5.35 - 5.46 GHz therefore the provision of FCC Part 15.205 apply.

Field strength measurements using peak and average detector performed in the restricted bands below 5.47 GHz and above 5.725 GHz.

Straddle channels 138,142 and 144 are considered to be operating in both U-NII-2C and U-NII-3 Bands. The worst case out-of-band emission limit, i.e.,  $-27$ dBm/MHz peak EIRP, applies at the band edges. The band edges are considered to be 5.47 GHz and 5.85 GHz.

- Preliminary tests determined the SISO worst-case: WLAN1.
- Preliminary tests determined the MIMO worst-case: WLAN12.

Test performed on the following worst-cases modes in all relevant tests channels for both techniques:

- 802.11a: 6 Mbps SISO 1Tx on WLAN1 / MIMO 2Tx on WLAN12.
- 802.11n HT20: MCS0 SISO 1Tx on WLAN1 / MIMO 2Tx on WLAN12.
- 802.11n HT40: MCS0 SISO 1Tx on WLAN1 / MIMO 2Tx on WLAN12.
- 802.11ac VHT20: MCS0 SISO 1Tx on WLAN1 / MIMO 2Tx on WLAN12.
- 802.11ac VHT40: MCS0 SISO 1Tx on WLAN1 / MIMO 2Tx on WLAN12.
- 802.11ac VHT80: MCS0 SISO 1Tx on WLAN1 / MIMO 2Tx on WLAN12.
- 802.11ax HE20: MCS0 SISO 1Tx on WLAN1 / MIMO 2Tx on WLAN12.
- 802.11ax HE40: MCS0 SISO 1Tx on WLAN1 / MIMO 2Tx on WLAN12.
- 802.11ax HE80: MCS0 SISO 1Tx on WLAN1 / MIMO 2Tx on WLAN12.

**BAND EDGE EMISSIONS:** For U-NII-2C, the band edges are considered to be 5.47 GHz and 5.725 GHz.  
For Straddle Channels 138,142 and 144, the band edges are considered to be 5.47 GHz and 5.85 GHz

The Lower Band Edge and the Upper Band Edge of Channel were tested for all modes.

**SISO worst-case:**

• **SISO 802.11 a20:**

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge Channel 100 (5500 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.3101870	57.64	68.23	H	Peak

- Upper Band Edge Channel 100 (5500 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.7598770	56.78	68.23	H	Peak

- Lower Band Edge Channel 140 (5700 GHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.3814530	56.94	74	H	Peak

- Upper Band Edge Channel 140 (5700 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.7262530	64.86	68.23	H	Peak

- Lower Band Edge Straddle Channel 144 (5720 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.4236970	58.01	68.23	H	Peak

- Upper Band Edge Straddle Channel 144 (5720 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.9523590	58.52	68.23	H	Peak

- **SISO 802.11 n20** (Duty Cycle 0.20 dB):

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge Channel 100 (5500 GHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.3043740	57.61	68.23	H	Peak

- Upper Band Edge Channel 100 (5500 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7601690	56.62	68.23	H	Peak

- Lower Band Edge Channel 140 (5700 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.3758390	57.01	74	H	Peak

- Upper Band Edge Channel 140 (5700 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7252480	64.79	68.23	H	Peak

- Lower Band Edge Straddle Channel 144 (5720 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.3709440	58.74	68.23	H	Peak

- Upper Band Edge Straddle Channel 144 (5720 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.8606830	58.19	68.23	H	Peak

- **SISO 802.11 ac20** (Duty Cycle 0.20 dB):

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge Channel 100 (5500 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.3004060	56.07	68.23	H	Peak

- Upper Band Edge Channel 100 (5500 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.8287140	56.25	68.23	H	Peak

- Lower Band Edge Channel 140 (5700 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.3761670	56.77	74	H	Peak

- Upper Band Edge Channel 140 (5700 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7256270	65.14	68.23	H	Peak

- Lower Band Edge Straddle Channel 144 (5720 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.453653	57.26	68.23	H	Peak

- Upper Band Edge Straddle Channel 144 (5720 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.882212	58.31	68.23	H	Peak

• **SISO 802.11 ax20:**

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge Channel 100 (5500 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.3693080	57.29	74	H	Peak

- Upper Band Edge Channel 100 (5500 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7597460	56.86	68.23	H	Peak

- Lower Band Edge Channel 140 (5700 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4115030	56.96	74	H	Peak

- Upper Band Edge Channel 140 (5700 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7251600	66.14	68.23	H	Peak

- Lower Band Edge Straddle Channel 144 (5720 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4476800	57.07	68.23	H	Peak

- Upper Band Edge Straddle Channel 144 (5720MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.8724060	57.64	68.23	H	Peak

- **SISO 802.11 n40:**

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge Channel 102 (5510 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4676700	65.73	68.23	H	Peak

- Upper Band Edge Channel 102 (5510 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7597760	57.51	68.23	H	Peak

- Lower Band Edge Channel 134 (5670 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4356830	56.91	74	H	Peak

- Upper Band Edge Channel 134 (5670 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7312980	67.67	68.23	H	Peak

- Lower Band Edge Straddle Channel 142 (5710 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.3471080	58.12	68.23	H	Peak

- Upper Band Edge Straddle Channel 142 (5710 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.9035940	58.43	68.23	H	Peak



• **SISO 802.11 ac40:**

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge Channel 102 (5510 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4684850	66.48	68.23	H	Peak

- Upper Band Edge Channel 102 (5510 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7594550	56.45	68.23	H	Peak

- Lower Band Edge Channel 134 (5670 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4671890	56.20	68.23	H	Peak

- Upper Band Edge Channel 134 (5670 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7260270	66.94	68.23	H	Peak

- Lower Band Edge Straddle Channel 142 (5710 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.3702500	57.61	68.23	H	Peak

- Upper Band Edge Straddle Channel 142 (5710 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.8605440	58.15	68.23	H	Peak

- **SISO 802.11 ax40:**

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge Channel 102 (5510 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4652370	66.66	68.23	H	Peak

- Upper Band Edge Channel 102 (5510 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7292460	57.58	68.23	H	Peak

- Lower Band Edge Channel 134 (5670 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.3682740	56.72	74	H	Peak

- Upper Band Edge Channel 134 (5670 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7258740	64.84	68.23	H	Peak

- Lower Band Edge Straddle Channel 142 (5710 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.3877060	57.67	68.23	H	Peak

- Upper Band Edge Straddle Channel 142 (5710 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.8770020	57.98	68.23	H	Peak

• **SISO 802.11 ac80:**

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge Channel 106 (5530 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4666870	67.69	68.23	H	Peak

- Upper Band Edge Channel 106 (5530 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7599270	58.25	68.23	H	Peak

- Lower Band Edge Channel 122 (5610 MHz) (\*\*). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4699370	58.26	68.23	H	Peak

(\*\*): Channel not allowed in Canada.

- Upper Band Edge Channel 122 (5610 MHz) (\*\*). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7258420	65.11	68.23	H	Peak

(\*\*): Channel not allowed in Canada.

- Lower Band Edge Straddle Channel 138 (5690 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4678640	57.98	68.23	H	Peak

- Upper Band Edge Straddle Channel 138 (5690 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.8505170	60.39	68.23	H	Peak

• **SISO 802.11 ax80:**

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge Channel 106 (5530 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4613340	67.87	68.23	H	Peak

- Upper Band Edge Channel 106 (5530 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.8279420	56.87	68.23	H	Peak

- Lower Band Edge Channel 122 (5610 MHz) (\*\*). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4695390	59.21	68.23	H	Peak

(\*\*): Channel not allowed in Canada.

- Upper Band Edge Channel 122 (5610 MHz) (\*\*). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7302800	67.69	68.23	H	Peak

(\*\*): Channel not allowed in Canada.

- Lower Band Edge Straddle Channel 138 (5690 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4631220	57.46	68.23	H	Peak

- Upper Band Edge Straddle Channel 138 (5690 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.8509230	60.22	68.23	H	Peak

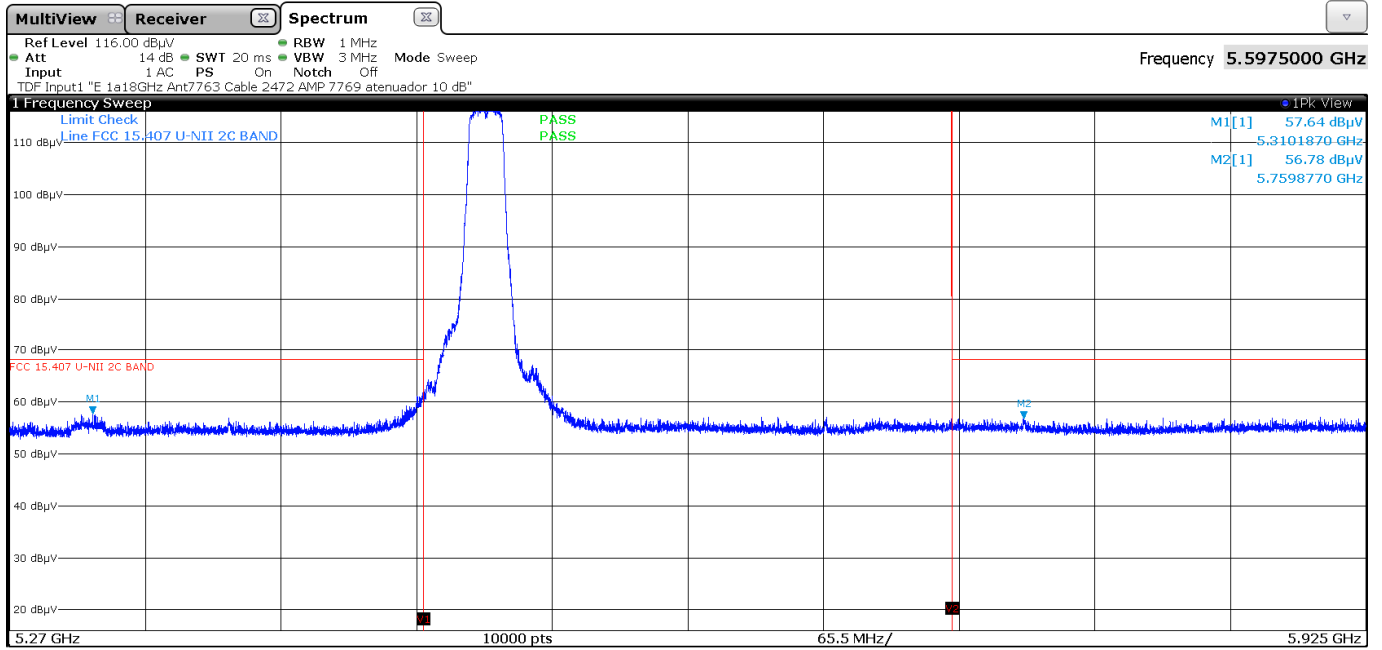
Measurement Uncertainty (dB)  $<\pm 4.6$

Verdict: PASS

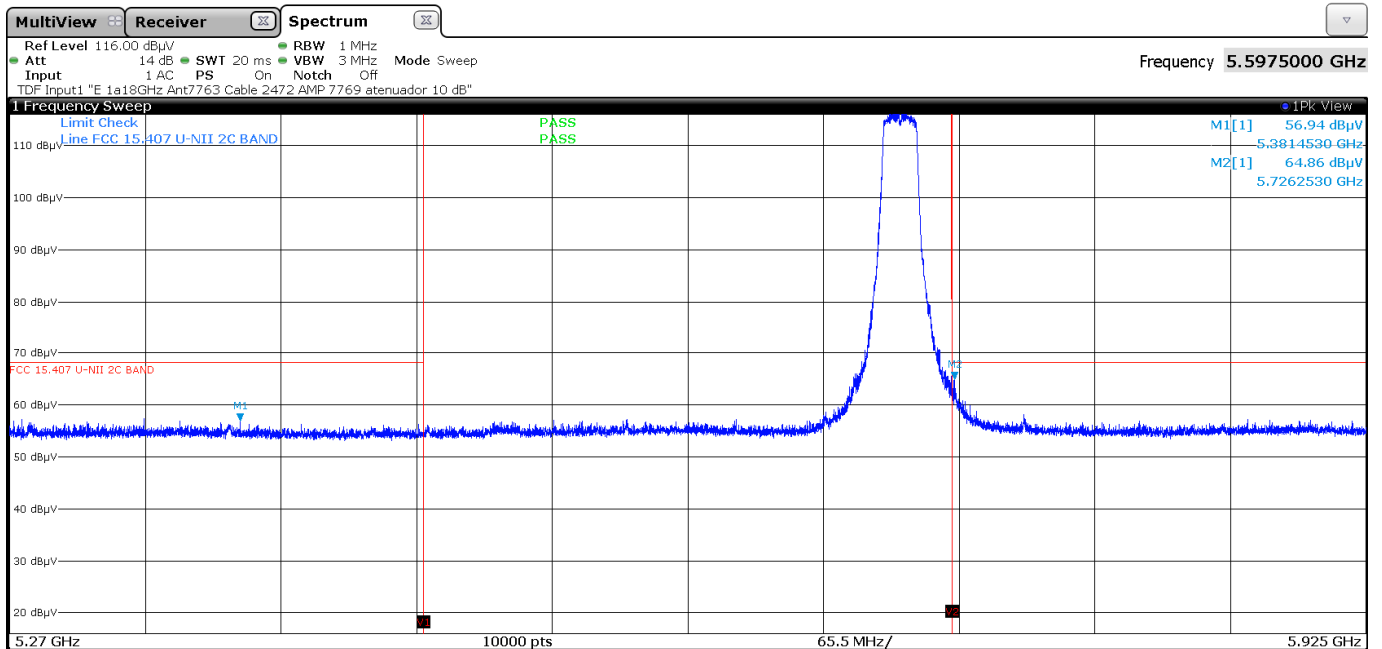
- SISO 802.11 a20:

**U-NII-2C (5470-5725 MHz):**

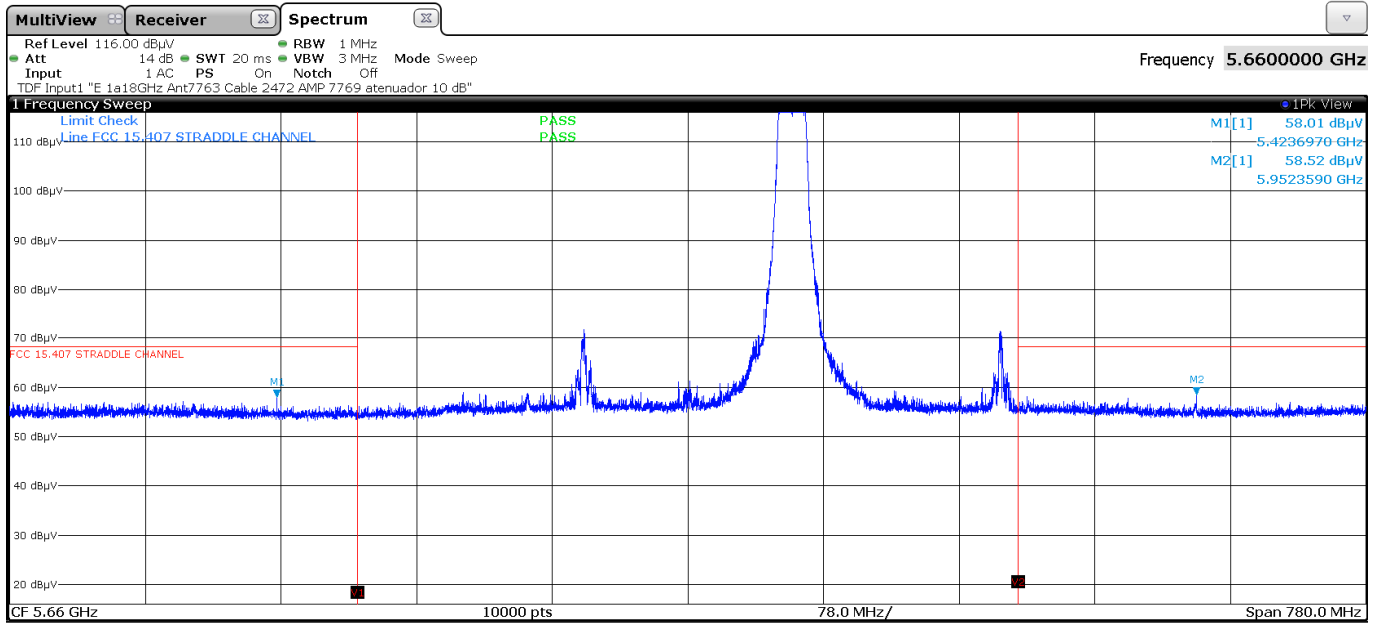
- Lower Band Edge and Upper Band Edge Channel 100 (5500 MHz):



- Lower Band Edge and Upper Band Edge Channel 140 (5700 MHz):



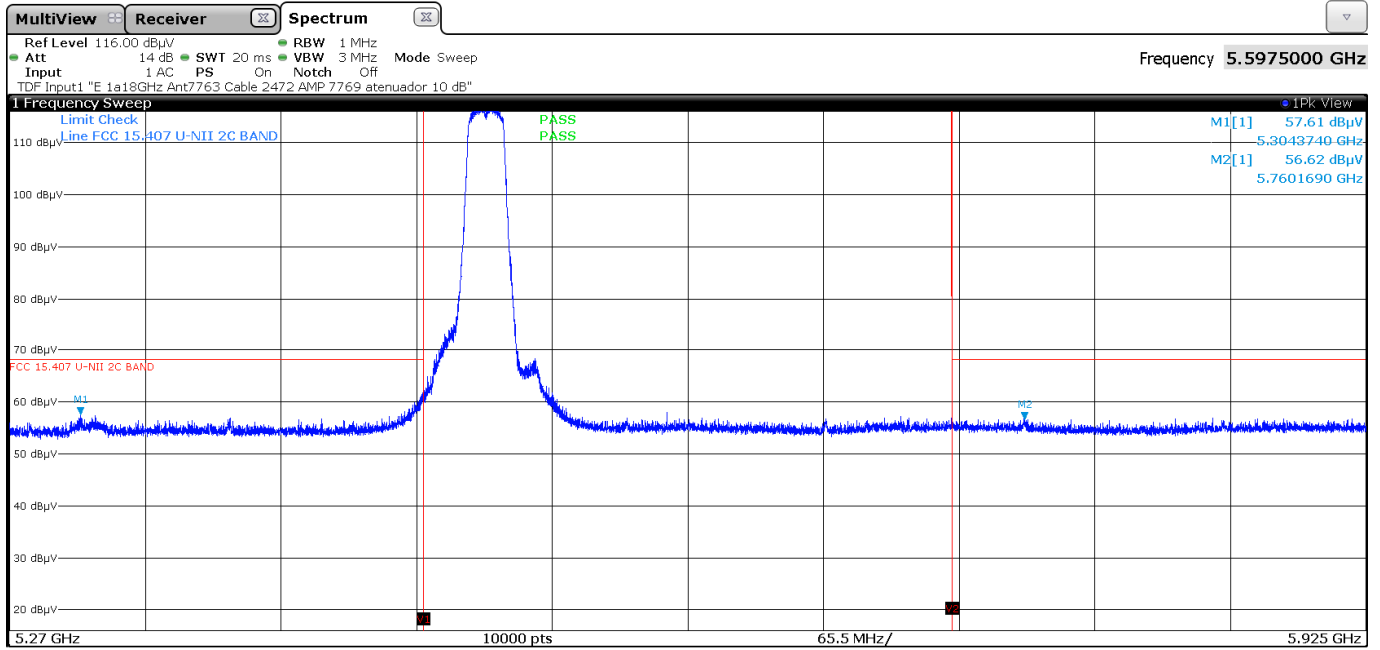
- Lower Band Edge and Upper Band Edge Straddle Channel 144 (5720 MHz):



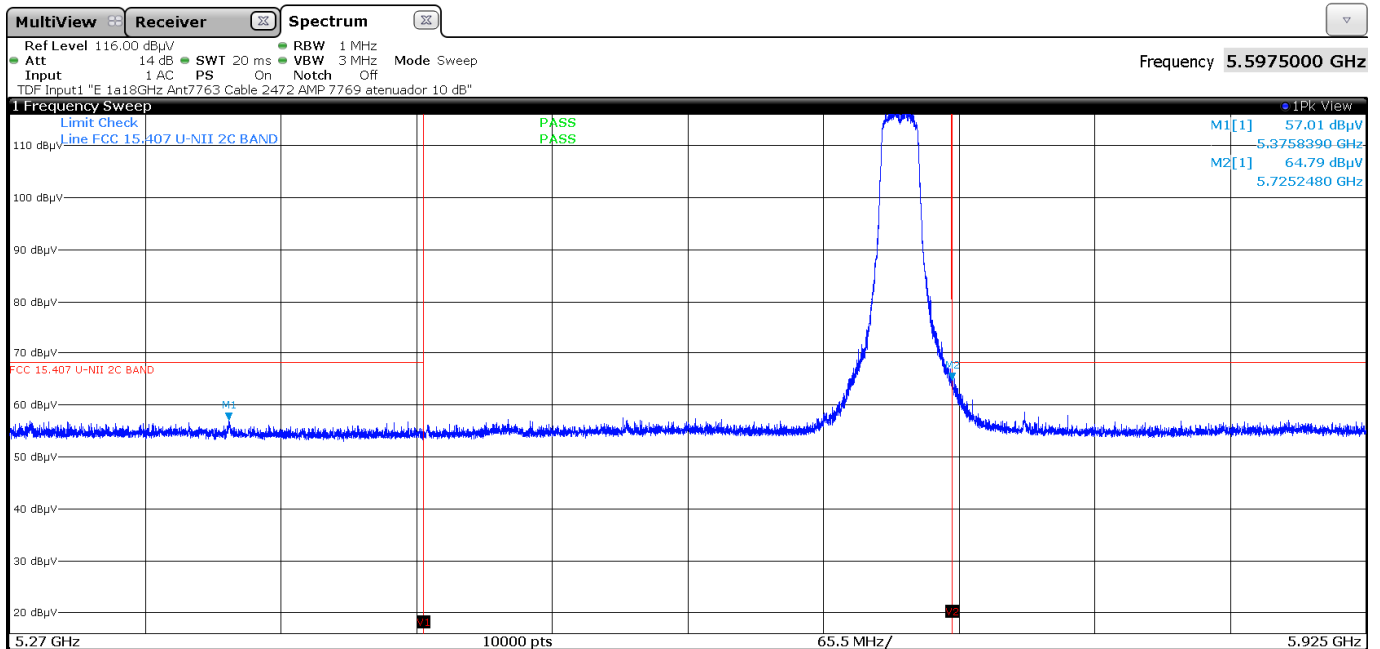
• SISO 802.11 n20:

**U-NII-2C (5470-5725 MHz):**

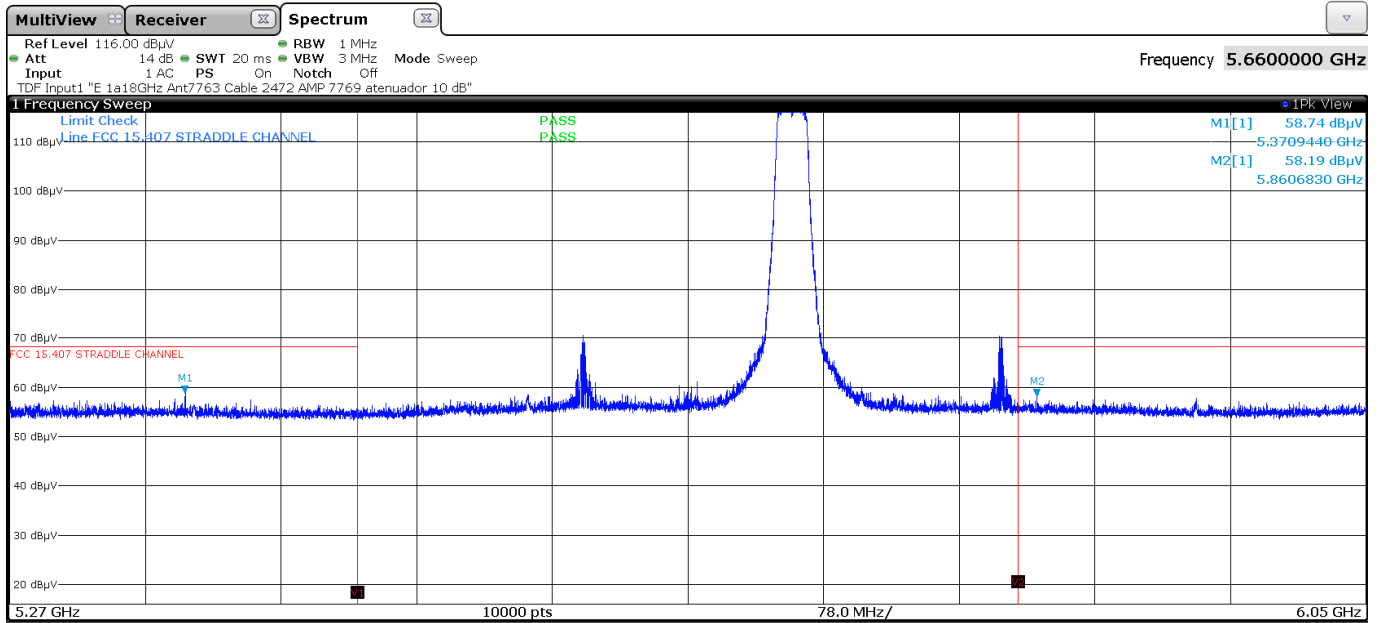
- Lower Band Edge and Upper Band Edge Channel 100 (5500 MHz):



- Lower Band Edge and Upper Band Edge Channel 140 (5700 MHz):



- Lower Band Edge and Upper Band Edge Straddle Channel 144 (5720 MHz):

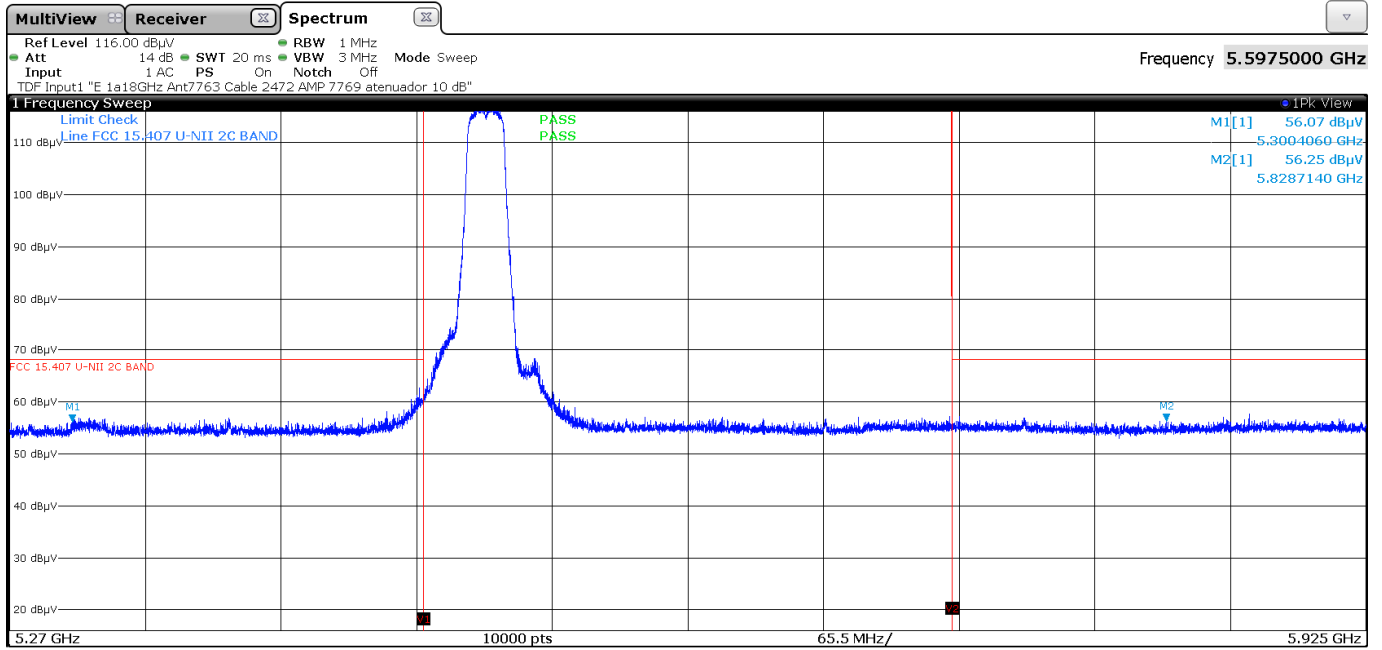




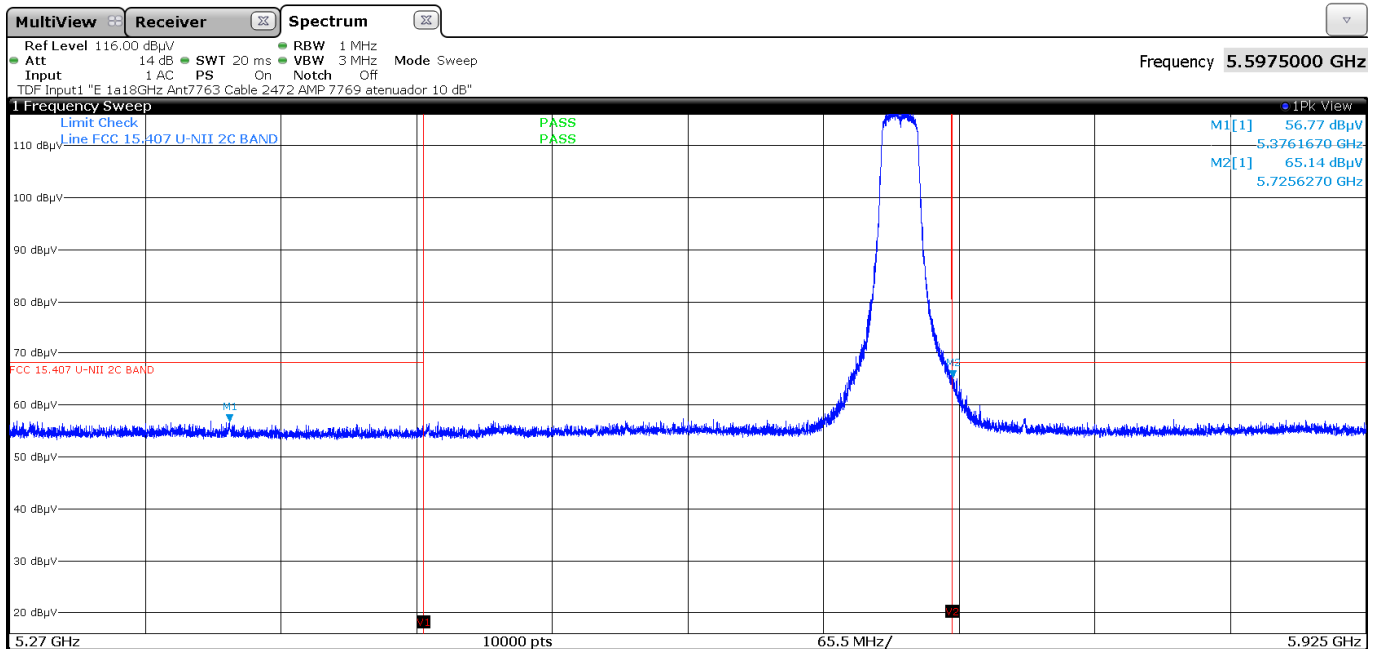
• SISO 802.11 ac20:

**U-NII-2C (5470-5725 MHz):**

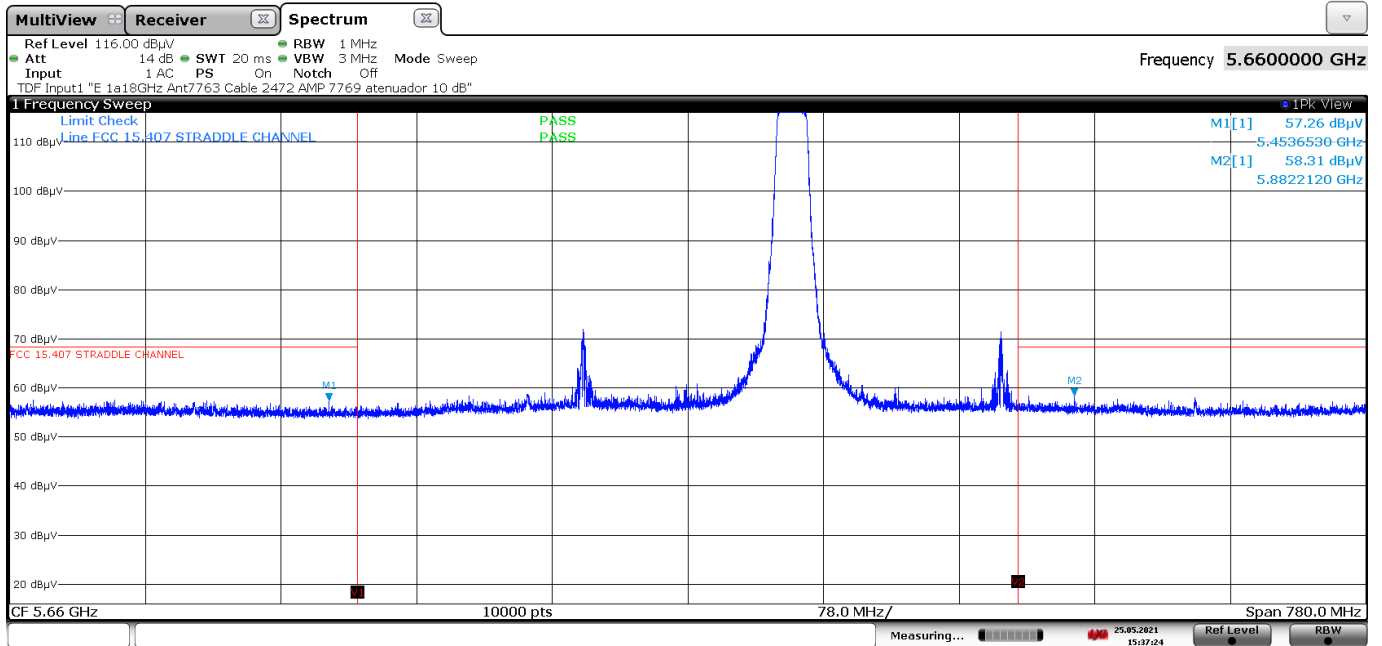
- Lower Band Edge and Upper Band Edge Channel 100 (5500 MHz):



- Lower Band Edge and Upper Band Edge Channel 140 (5700 MHz):



- Lower Band Edge and Upper Band Edge Straddle Channel 144 (5720 MHz):

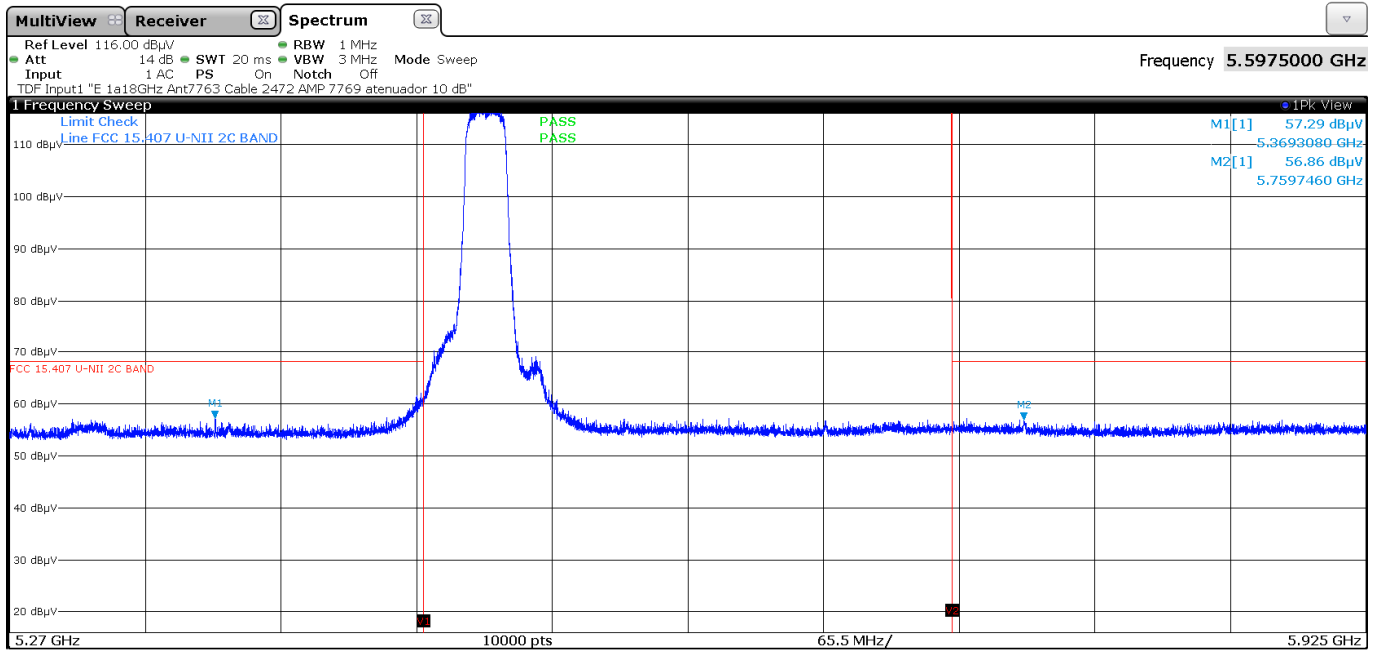


15:37:25 25.05.2021

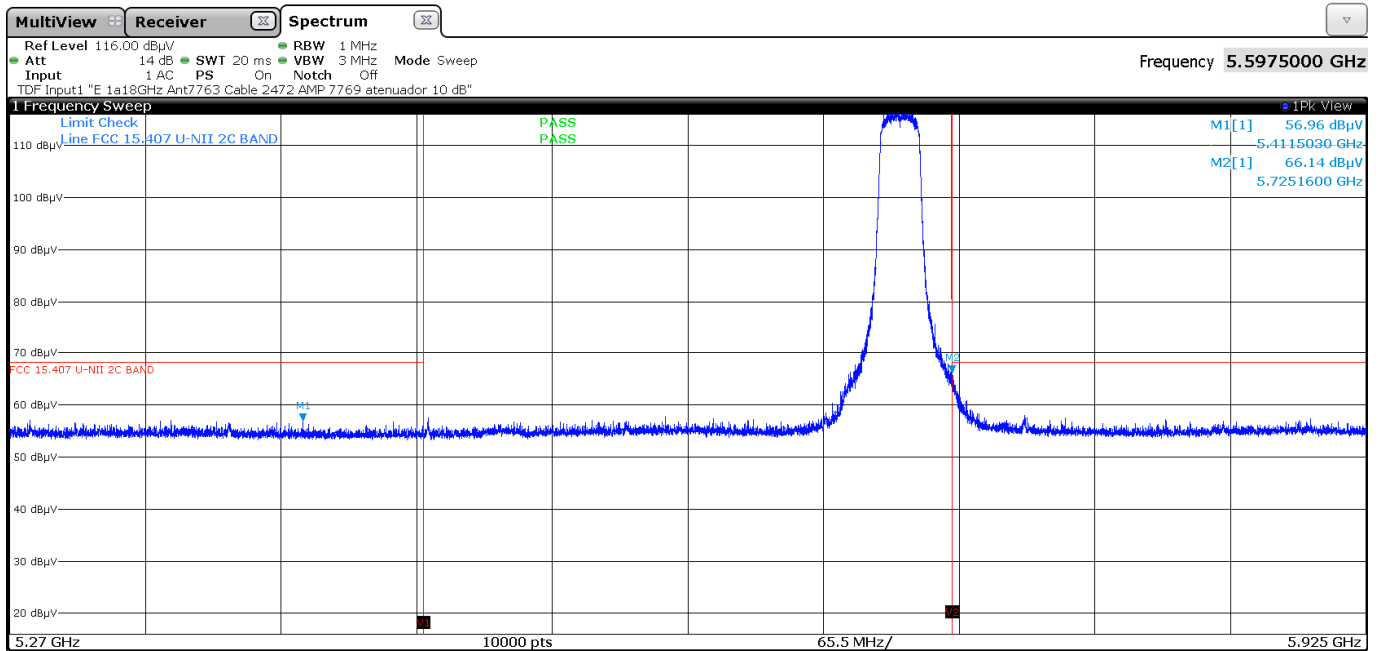
• SISO 802.11 ax20:

**U-NII-2C (5470-5725 MHz):**

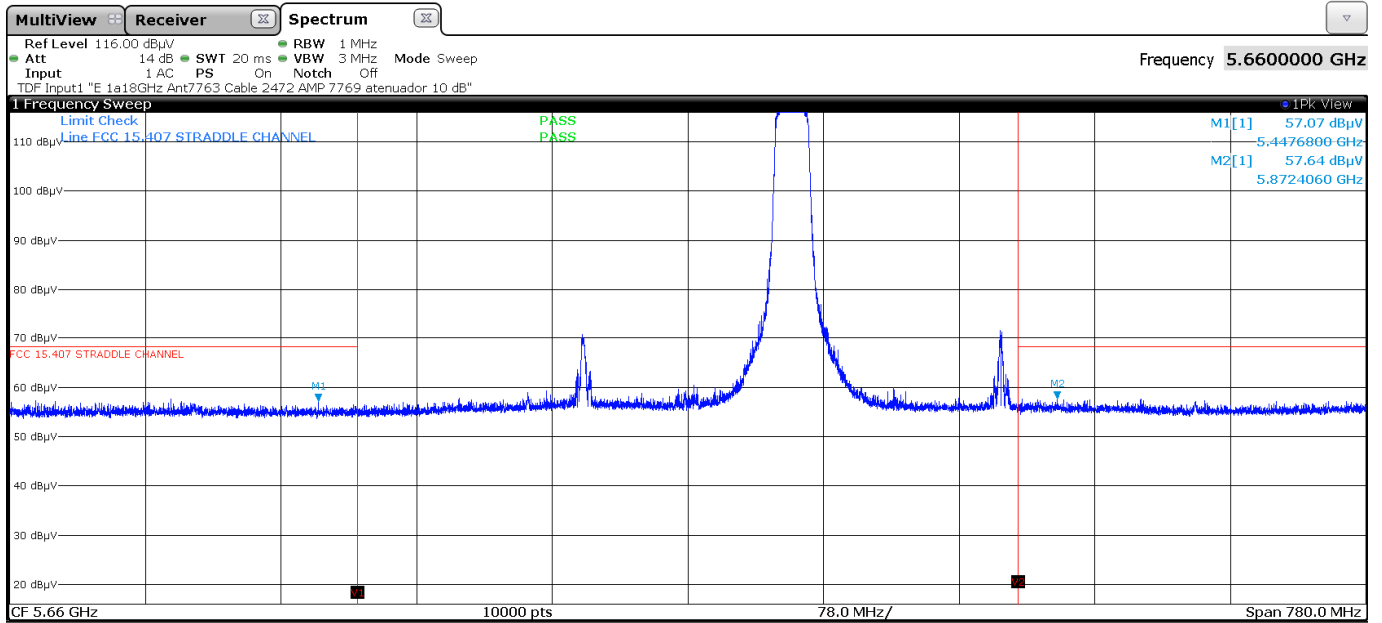
- Lower Band Edge and Upper Band Edge Channel 100 (5500 MHz):



- Lower Band Edge and Upper Band Edge Channel 140 (5700 MHz):



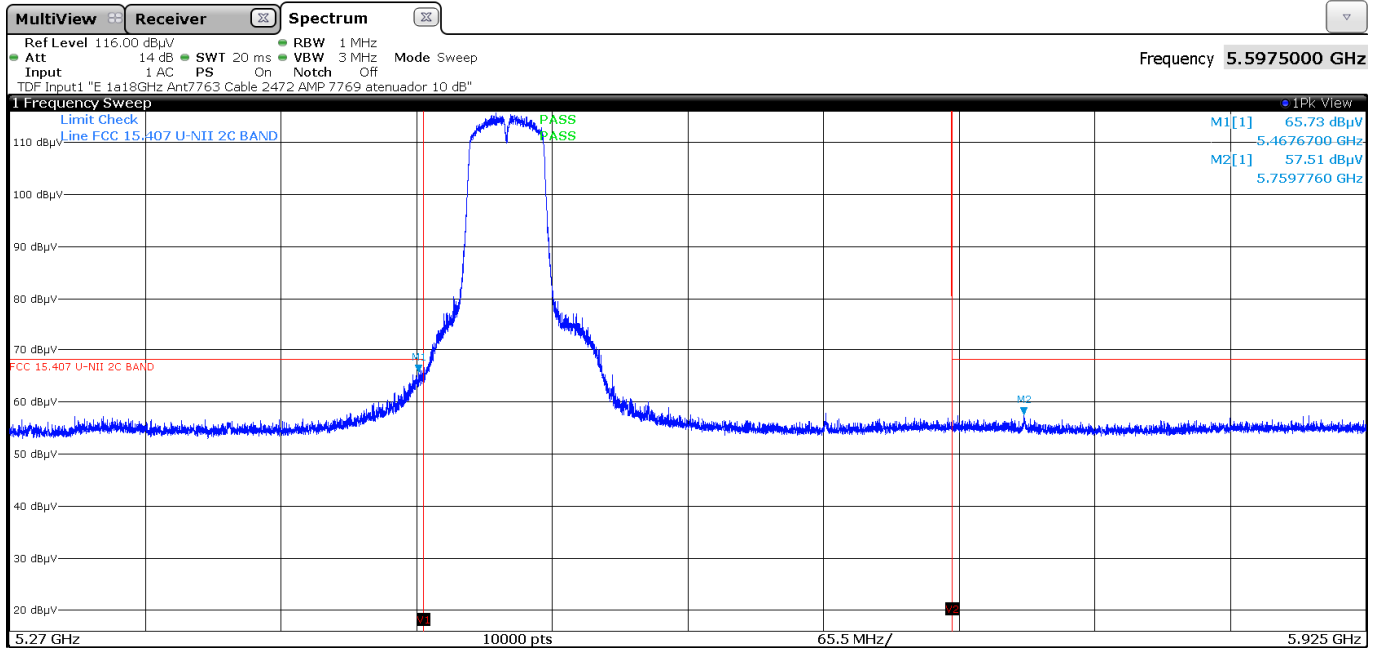
- Lower Band Edge and Upper Band Edge Straddle Channel 144 (5720 MHz):



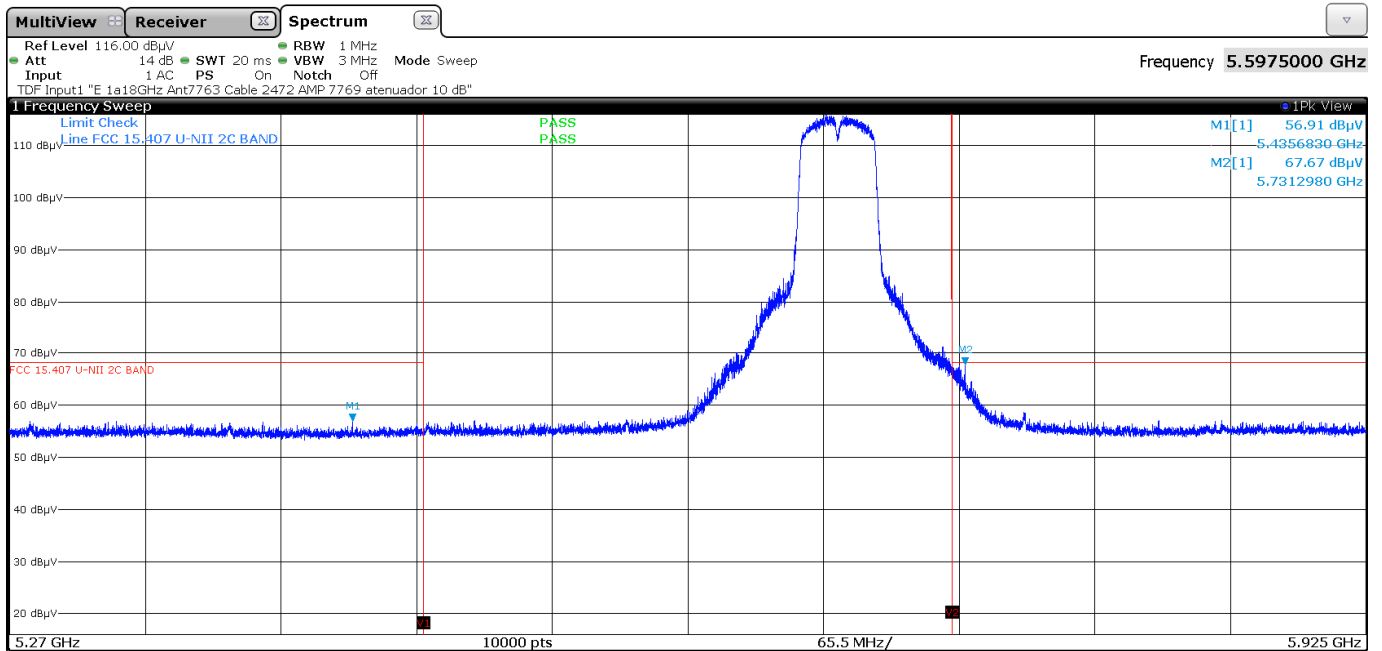
• SISO 802.11 n40:

**U-NII-2C (5470-5725 MHz):**

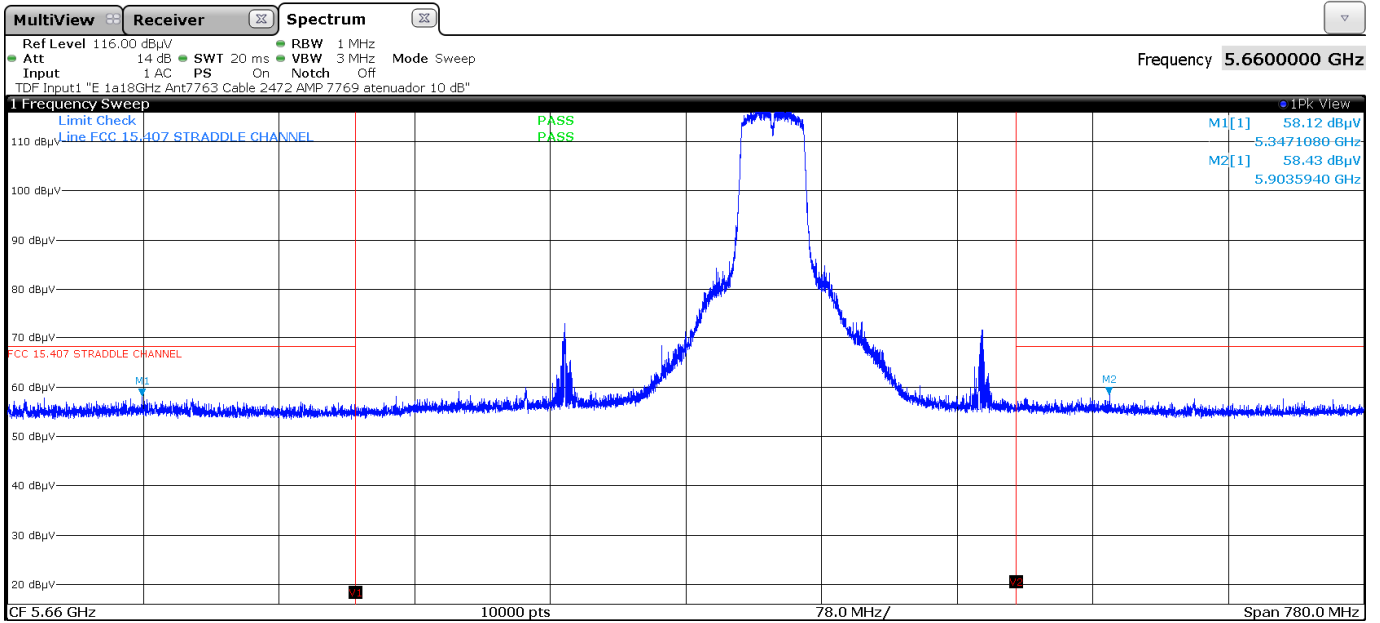
- Lower Band Edge and Upper Band Edge Channel 102 (5510 MHz):



- Lower Band Edge and Upper Band Edge Channel 134 (5670 MHz):



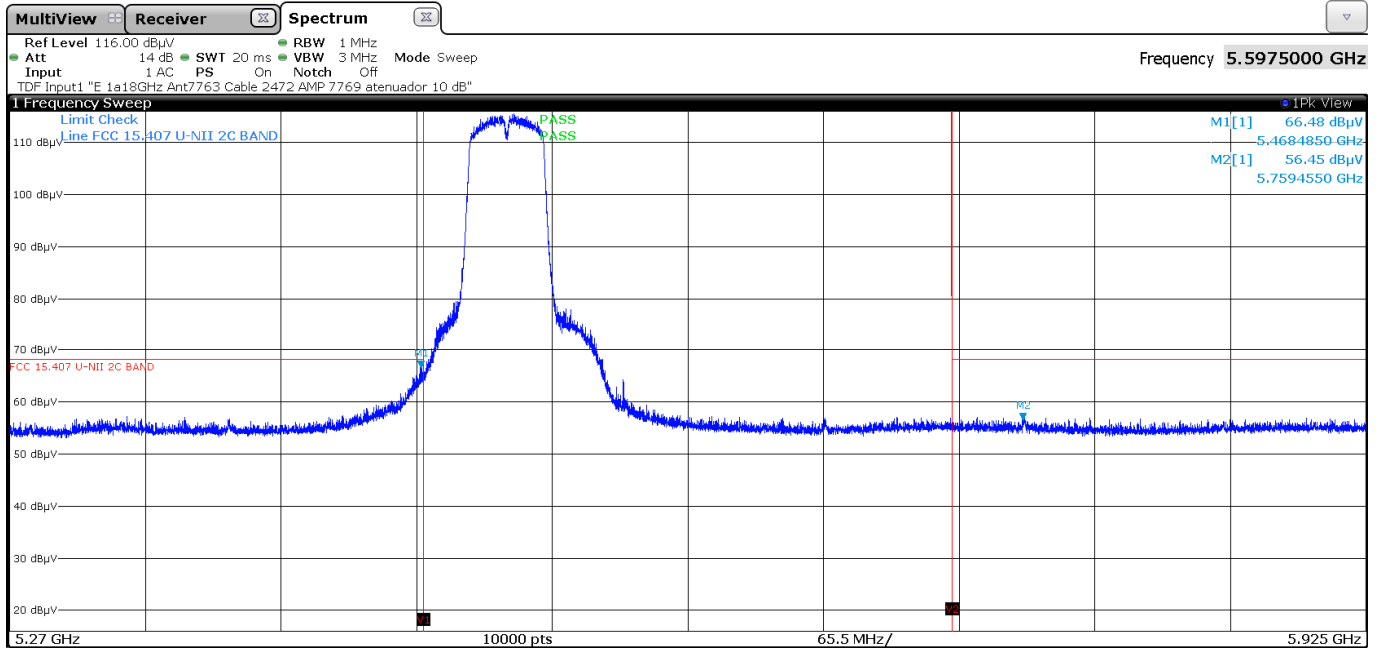
- Lower Band Edge and Upper Band Edge Straddle Channel 142 (5710 MHz):



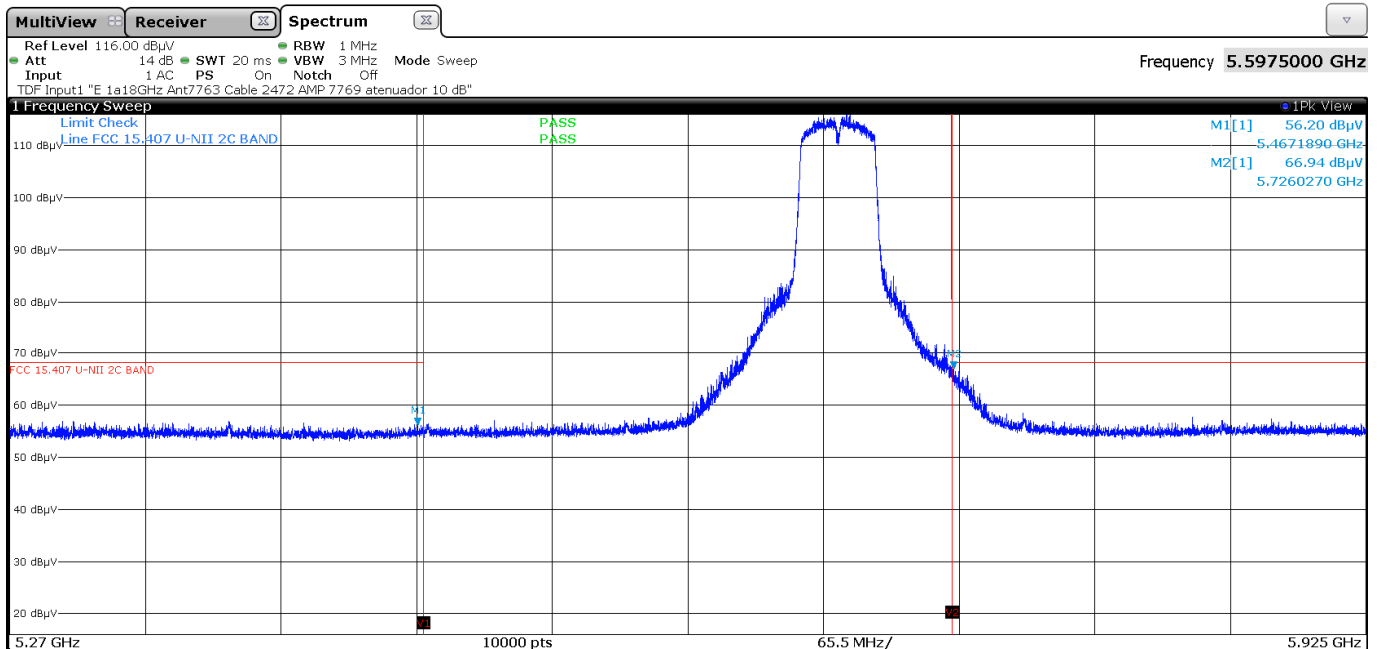
• SISO 802.11 ac40:

**U-NII-2C (5470-5725 MHz):**

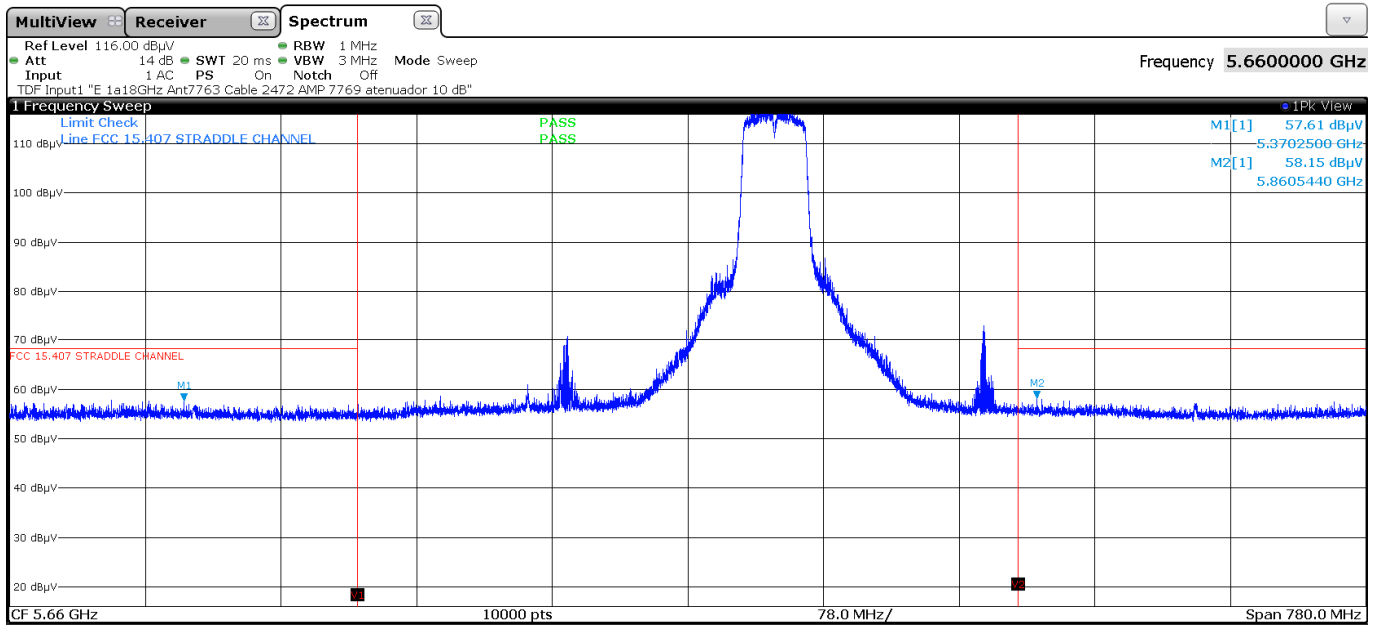
- Lower Band Edge and Upper Band Edge Channel 102 (5510 MHz):



- Lower Band Edge and Upper Band Edge Channel 134 (5670 MHz):



- Lower Band Edge and Upper Band Edge Straddle Channel 142 (5710 MHz):

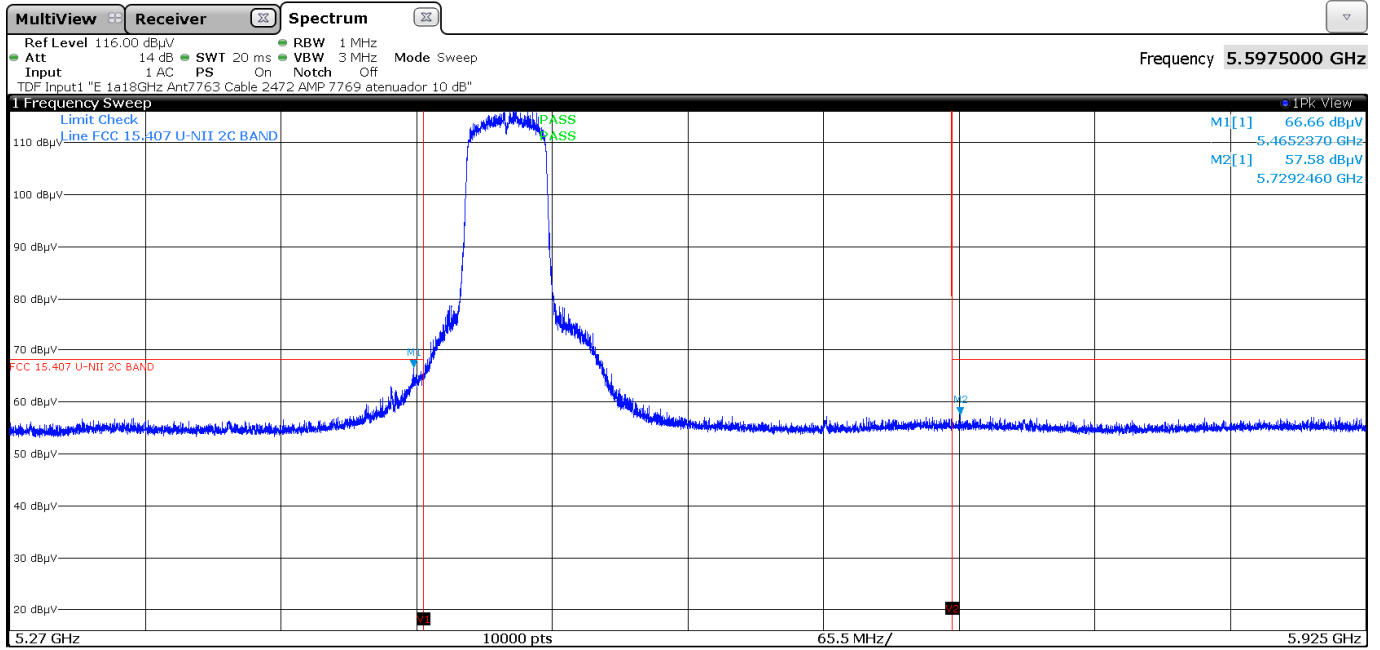




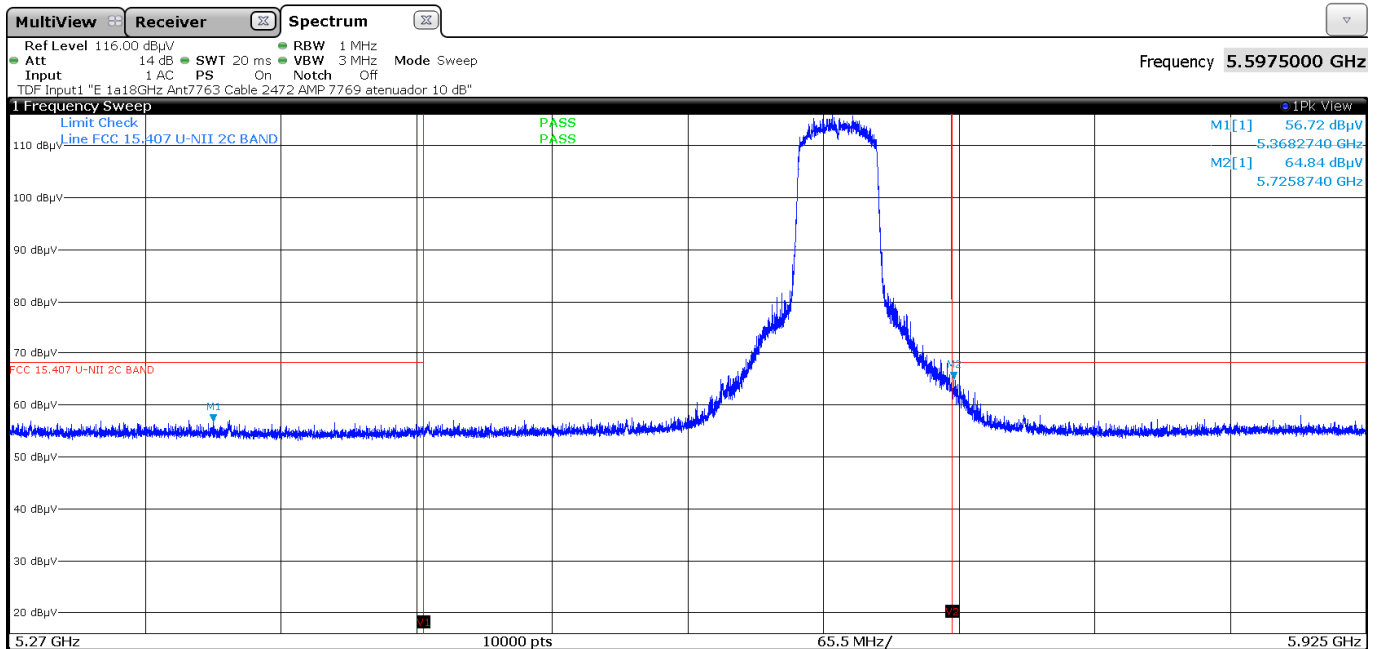
• SISO 802.11 ax40:

**U-NII-2C (5470-5725 MHz):**

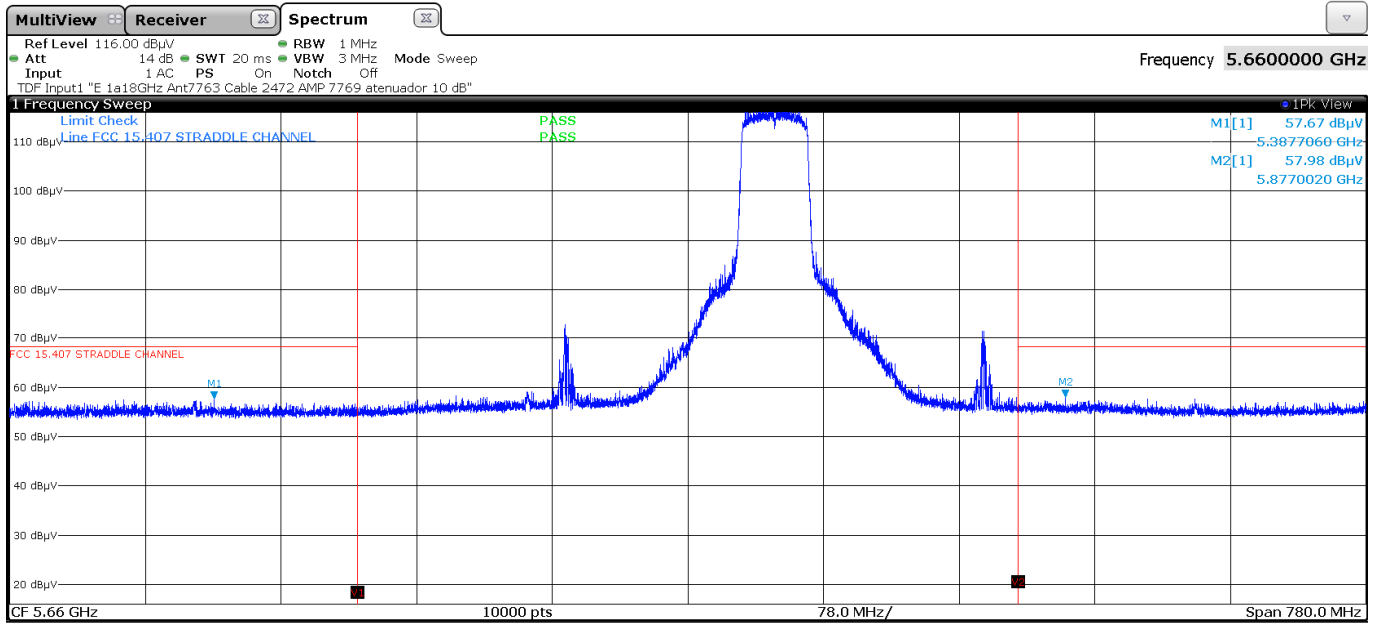
- Lower Band Edge and Upper Band Edge Channel 102 (5510 MHz):



- Lower Band Edge and Upper Band Edge Channel 134 (5670 MHz):



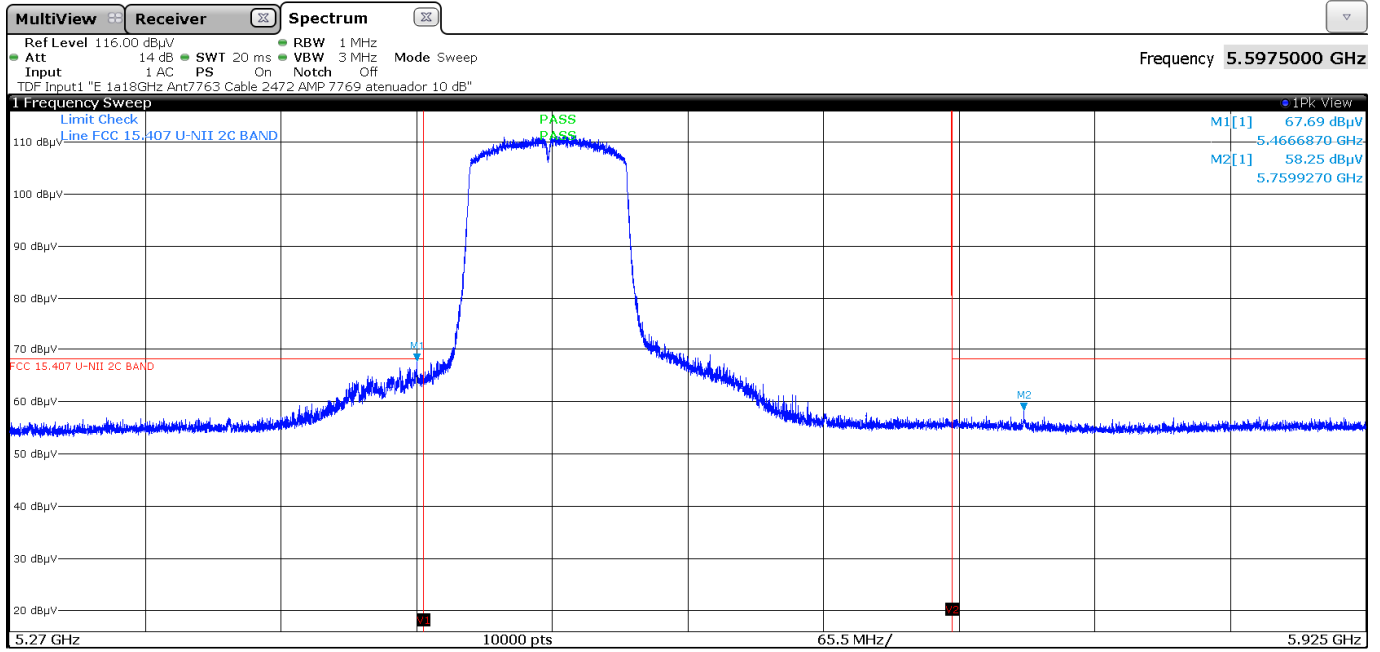
- Lower Band Edge and Upper Band Edge Straddle Channel 142 (5710 MHz):



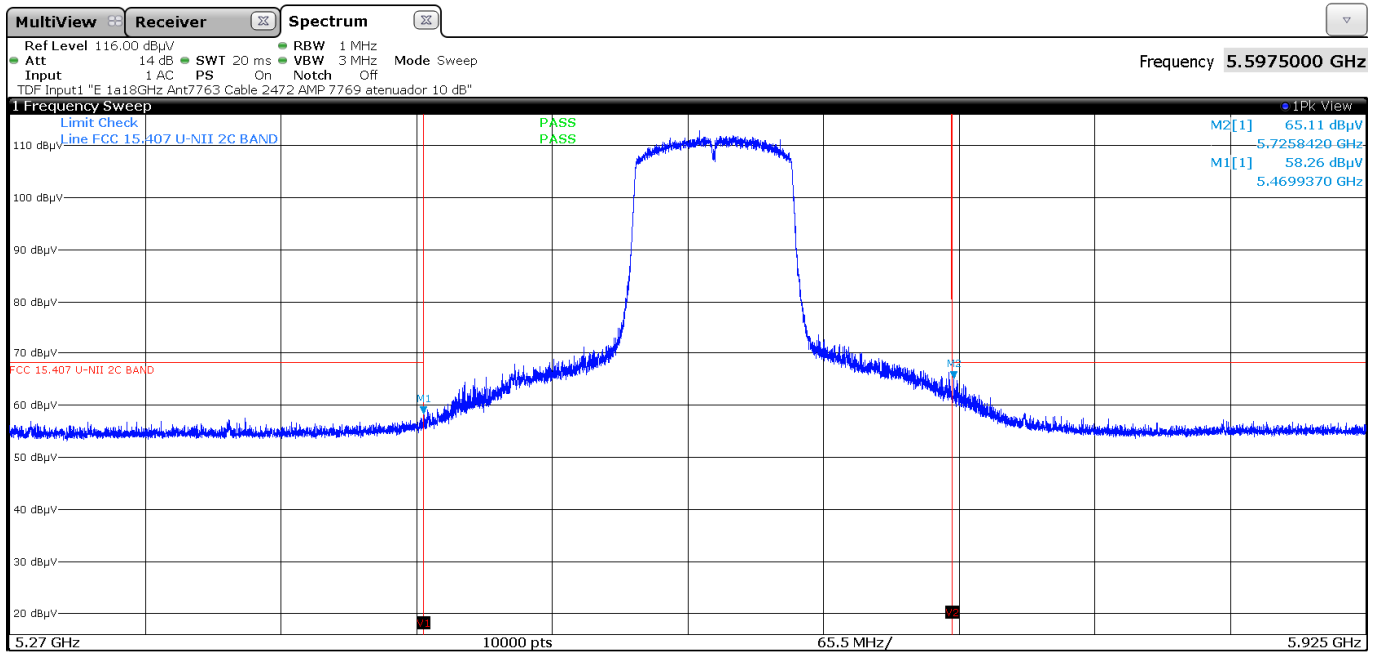
• SISO 802.11 ac80:

**U-NII-2C (5470-5725 MHz):**

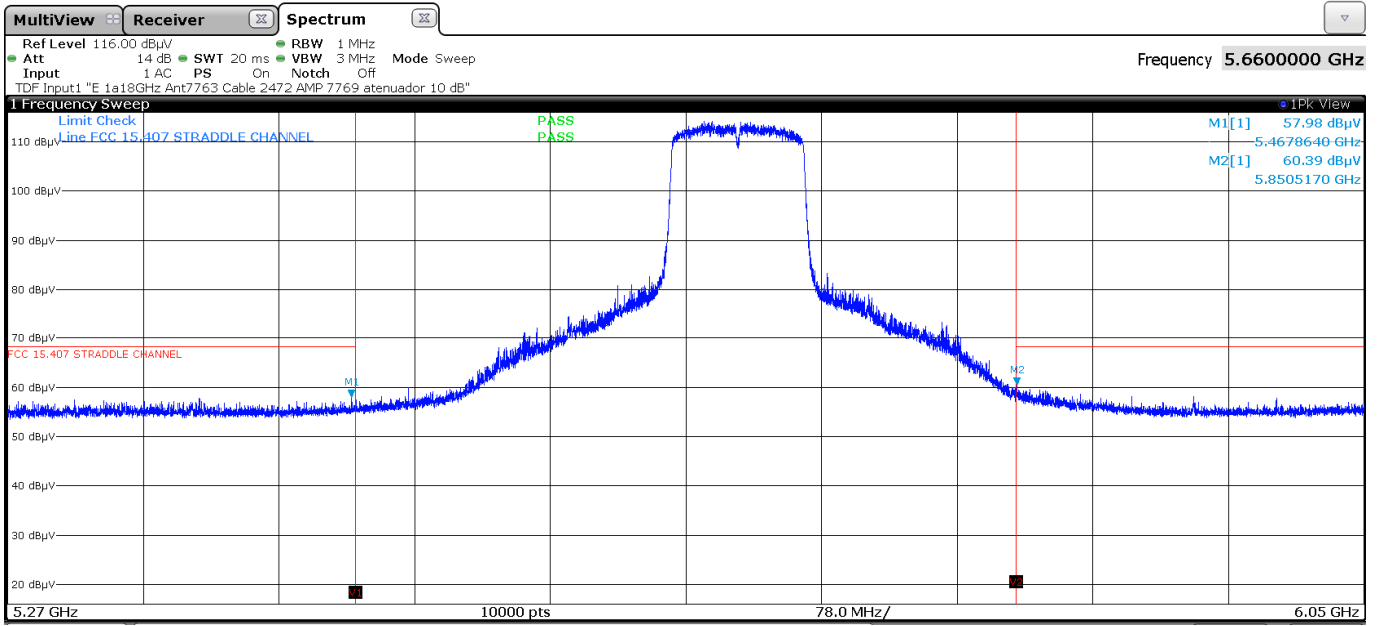
- Lower Band Edge and Upper Band Edge Channel 106 (5530 GHz):



- Lower Band Edge and Upper Band Edge Channel 122 (5610 MHz):



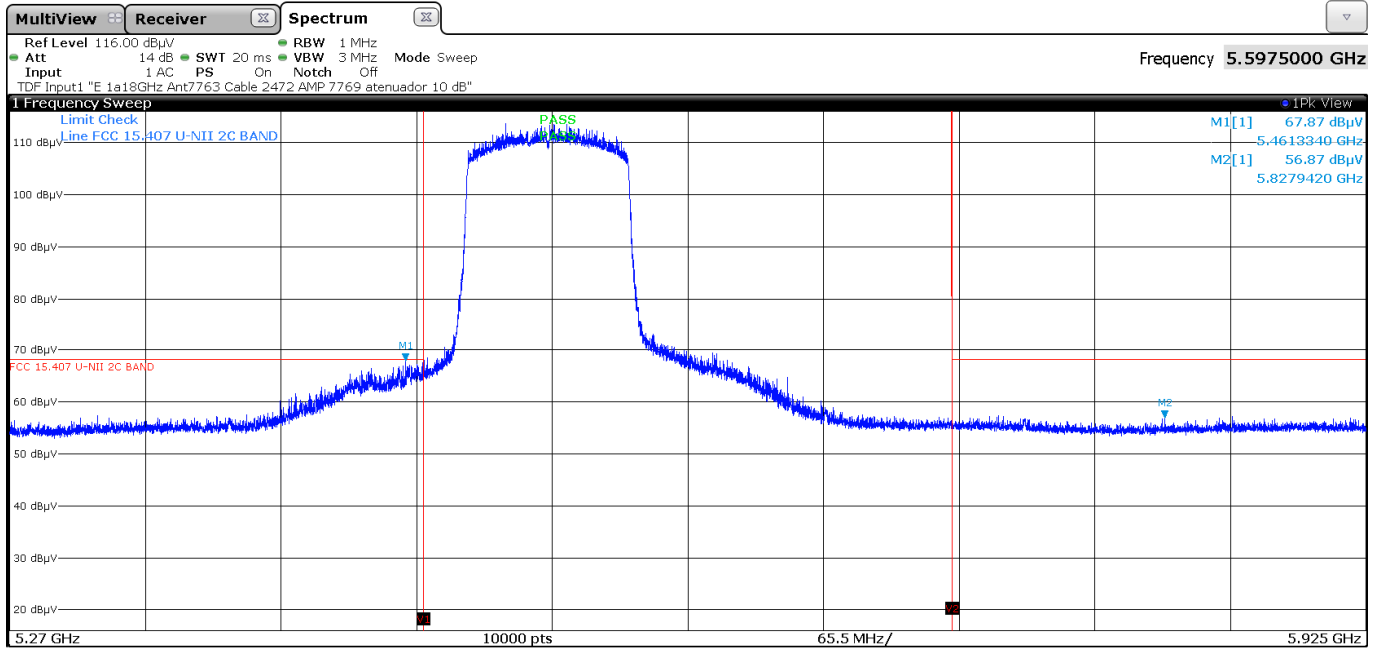
- Lower Band Edge and Upper Band Edge Straddle Channel 138 (5690 MHz):



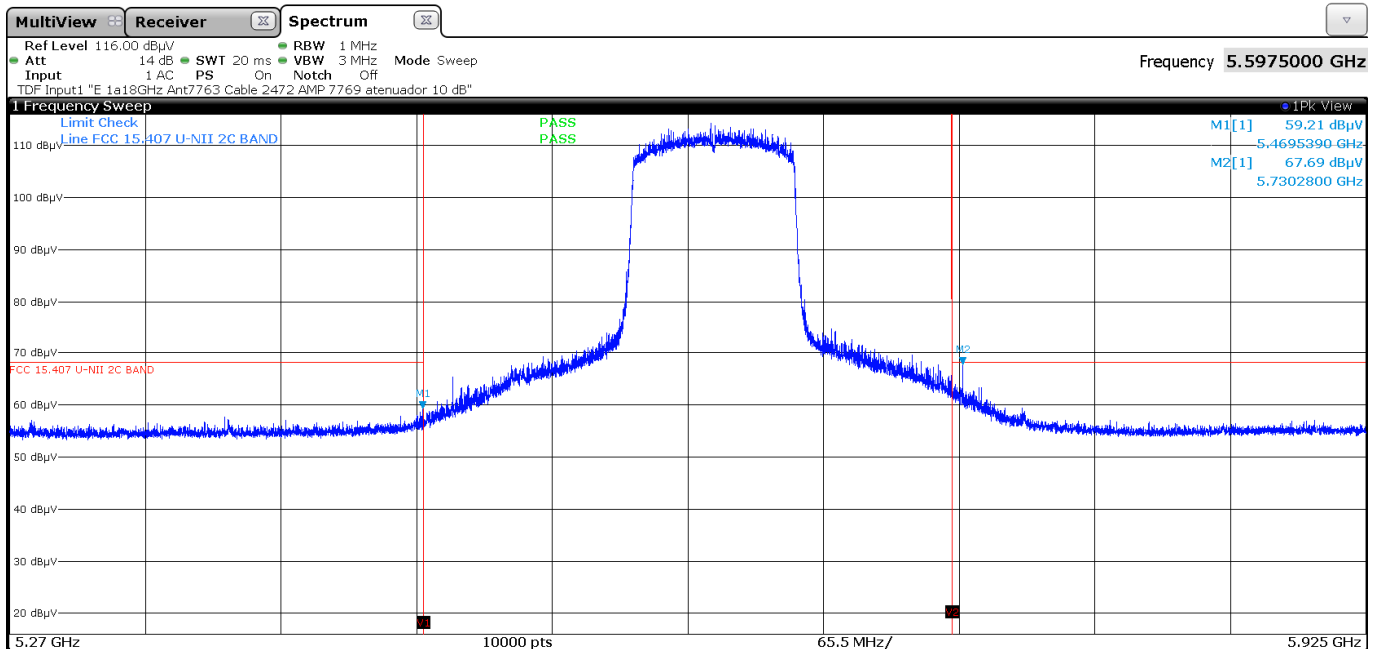
• SISO 802.11 ax80:

**U-NII-2C (5470-5725 MHz):**

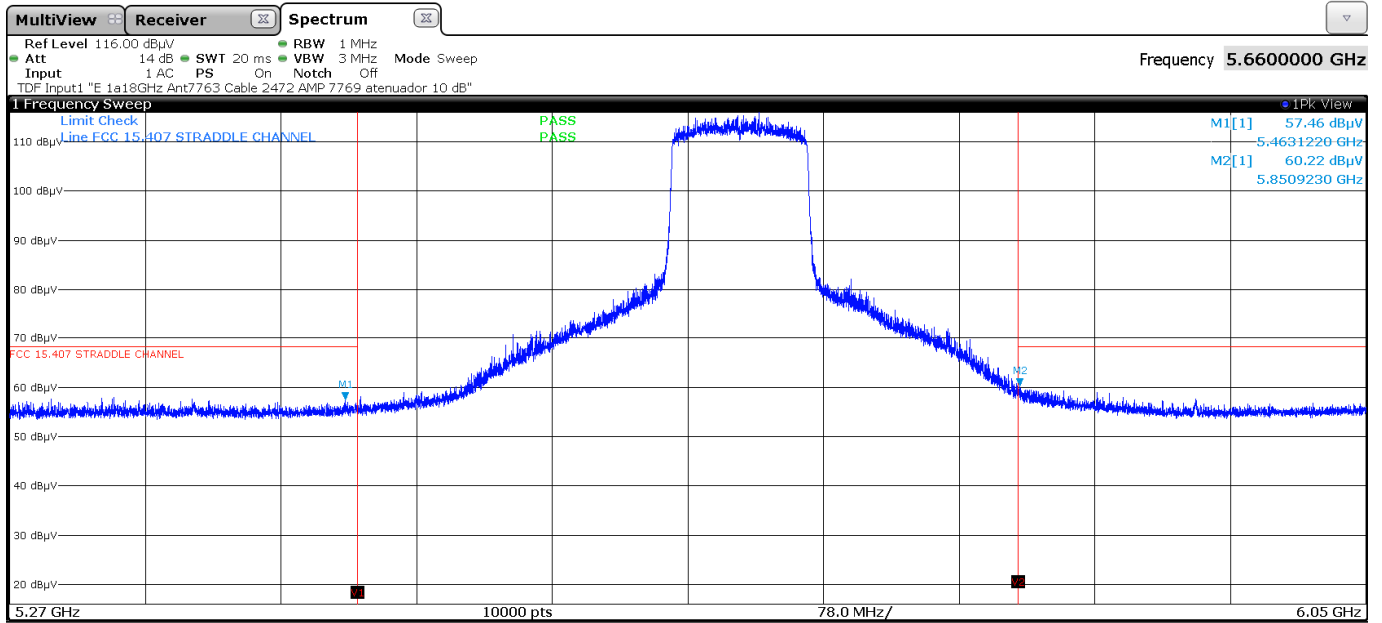
- Lower Band Edge and Upper Band Edge Channel 106 (5530 MHz):



- Lower Band Edge and Upper Band Edge Channel 122 (5610 MHz):



- Lower Band Edge and Upper Band Edge Straddle Channel 138 (5690 MHz):



**MIMO worst-case:**

• **MIMO 802.11 a20:**

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge Channel 100 (5500 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.4684730	64.62	68.23	H	Peak

- Upper Band Edge Channel 100 (5500 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.7382020	57.89	68.23	H	Peak

- Lower Band Edge Channel 140 (5700 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.3606070	56.49	74	H	Peak

- Upper Band Edge Channel 140 (5700 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.7261350	60.47	68.23	H	Peak

- Lower Band Edge Straddle Channel 144 (5720 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.4214160	58.47	68.23	H	Peak

- Upper Band Edge Straddle Channel 144 (5720 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.8693190	58.18	68.23	H	Peak

• **MIMO 802.11 n20:**

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge Channel 100 (5500 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.3800030	65.37	74	H	Peak

- Upper Band Edge Channel 100 (5500 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7598280	58.59	68.23	H	Peak

- Lower Band Edge Channel 140 (5700 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.3684050	58.09	74	H	Peak

- Upper Band Edge Channel 140 (5700 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7250110	66.06	68.23	H	Peak

- Lower Band Edge Straddle Channel 144 (5720 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4496300	58.46	68.23	H	Peak

- Upper Band Edge Straddle Channel 144 (5720 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.8567030	59.11	68.23	H	Peak



• **MIMO 802.11 ac20:**

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge Channel 100 (5500 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.3799470	66.22	74	H	Peak

- Upper Band Edge Channel 100 (5500 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7594350	59.12	68.23	H	Peak

- Lower Band Edge Channel 140 (5700 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4121140	57.84	74	H	Peak

- Upper Band Edge Channel 140 (5700 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7255710	64.65	68.23	H	Peak

- Lower Band Edge Straddle Channel 144 (5720 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.3758860	58.71	68.23	H	Peak

- Upper Band Edge Straddle Channel 144 (5720 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.8563480	58.91	68.23	H	Peak

• **MIMO 802.11 ax20:**

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge Channel 100 (5500 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.3800210	65.54	74	H	Peak

- Upper Band Edge Channel 100 (5500 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7597890	58.65	68.23	H	Peak

- Lower Band Edge Channel 140 (5700 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4396440	58.61	74	H	Peak

- Upper Band Edge Channel 140 (5700 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7255200	67.71	68.23	H	Peak

- Lower Band Edge Straddle Channel 144 (5720 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4592800	57.84	68.23	H	Peak

- Upper Band Edge Straddle Channel 144 (5720 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.8600760	58.23	68.23	H	Peak

• **MIMO 802.11 n40:**

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge Channel 102 (5510 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4690150	67.81	68.23	H	Peak

- Upper Band Edge Channel 102 (5510 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7307450	57.33	68.23	H	Peak

- Lower Band Edge Channel 134 (5670 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4648510	58.05	68.23	H	Peak

- Upper Band Edge Channel 134 (5670 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7290200	65.80	68.23	H	Peak

- Lower Band Edge Straddle Channel 142 (5710 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.3843580	58.95	68.23	H	Peak

- Upper Band Edge Straddle Channel 142 (5710 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.8674470	59.23	68.23	H	Peak

• **MIMO 802.11 ac40:**

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge Channel 102 (5510 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4696120	66.04	68.23	H	Peak

- Upper Band Edge Channel 102 (5510 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.8849890	58.01	68.23	H	Peak

- Lower Band Edge Channel 134 (5670 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4686470	58.19	68.23	H	Peak

- Upper Band Edge Channel 134 (5670 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7272060	67.70	68.23	H	Peak

- Lower Band Edge Straddle Channel 142 (5710 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4648140	59.17	68.23	H	Peak

- Upper Band Edge Straddle Channel 142 (5710 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.8655730	59.24	68.23	H	Peak

• **MIMO 802.11 ax40:**

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge Channel 102 (5510 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4681980	67.91	68.23	H	Peak

- Upper Band Edge Channel 102 (5510 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.9016490	57.42	68.23	H	Peak

- Lower Band Edge Channel 134 (5670 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4681980	67.91	68.23	H	Peak

- Upper Band Edge Channel 134 (5670 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.9016490	57.42	68.23	H	Peak

- Lower Band Edge Straddle Channel 142 (5710 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4426860	59.50	68.23	H	Peak

- Upper Band Edge Straddle Channel 142 (5710 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.8636230	58.56	68.23	H	Peak

• **MIMO 802.11 ac80:**

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge Channel 106 (5530 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4698260	68.10	68.23	H	Peak

- Upper Band Edge Channel 106 (5530 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.8966830	56.88	68.23	H	Peak

- Lower Band Edge Channel 122 (5610 MHz) (\*\*). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4599970	59.26	74	H	Peak

(\*\*): Channel not allowed in Canada.

- Upper Band Edge Channel 122 (5610 MHz) (\*\*). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.7283420	65.58	68.23	H	Peak

(\*\*): Channel not allowed in Canada.

- Lower Band Edge Straddle Channel 138 (5690 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.4682290	60.45	68.23	H	Peak

- Upper Band Edge Straddle Channel 138 (5690 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Polarization	Detector
5.8510520	65.45	68.23	H	Peak

• **MIMO 802.11 ax80:**

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge Channel 106 (5530 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.4687240	67.28	68.23	H	Peak

- Upper Band Edge Channel 106 (5530 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.7603720	57.86	68.23	H	Peak

- Lower Band Edge Channel 122 (5610 MHz) (\*\*). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.4645190	61.62	68.23	H	Peak

(\*\*): Channel not allowed in Canada.

- Upper Band Edge Channel 122 (5610 MHz) (\*\*). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.7257490	67.66	68.23	H	Peak

(\*\*): Channel not allowed in Canada.

- Lower Band Edge Straddle Channel 138 (5690 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.4660700	60.80	68.23	H	Peak

- Upper Band Edge Straddle Channel 138 (5690 MHz). Spurious emissions at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.8517520	66.54	68.23	H	Peak

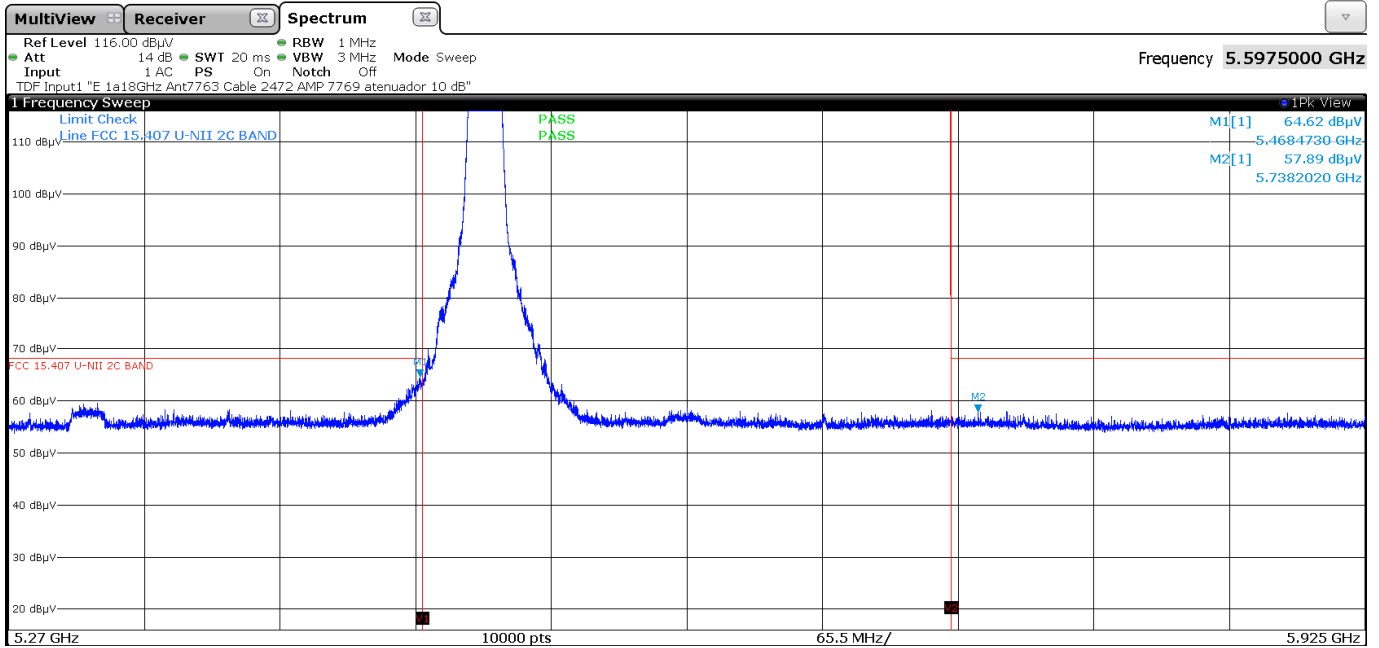
Measurement Uncertainty (dB) <± 4.6

Verdict: PASS

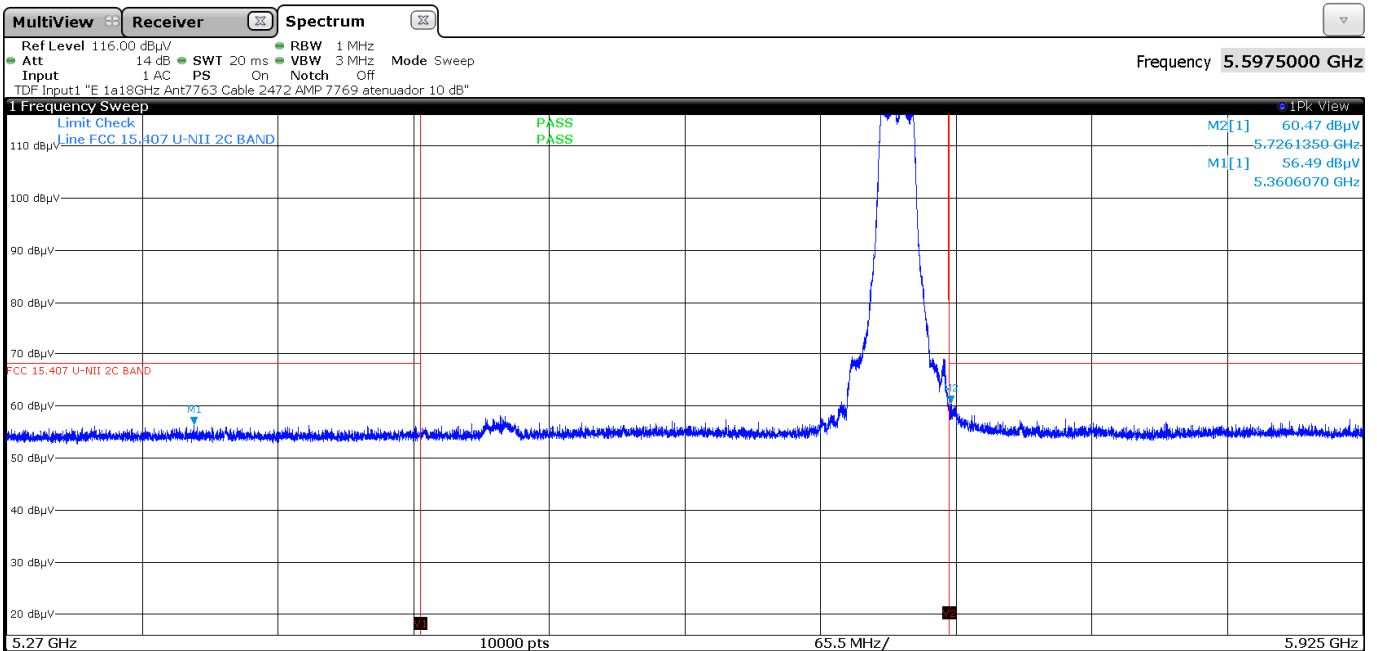
• MIMO 802.11 a20:

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge and Upper Band Edge Channel 100 (5500 MHz):

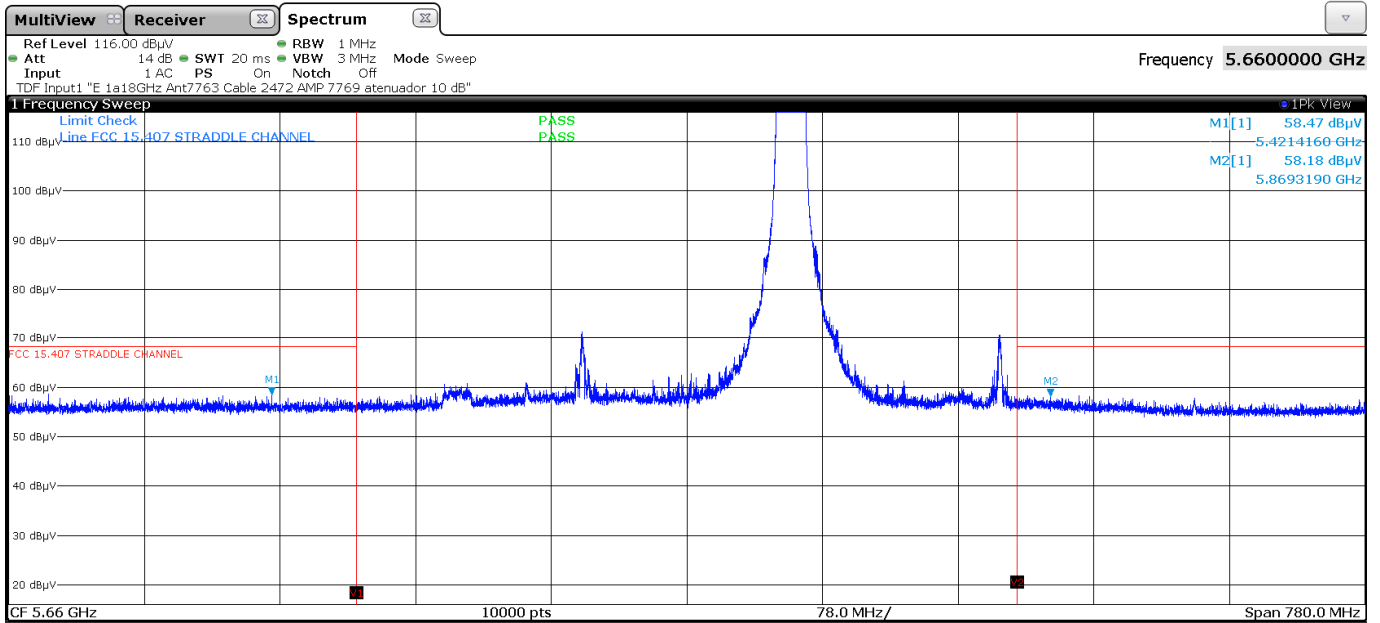


- Lower Band Edge and Upper Band Edge Channel 140 (5700 MHz):





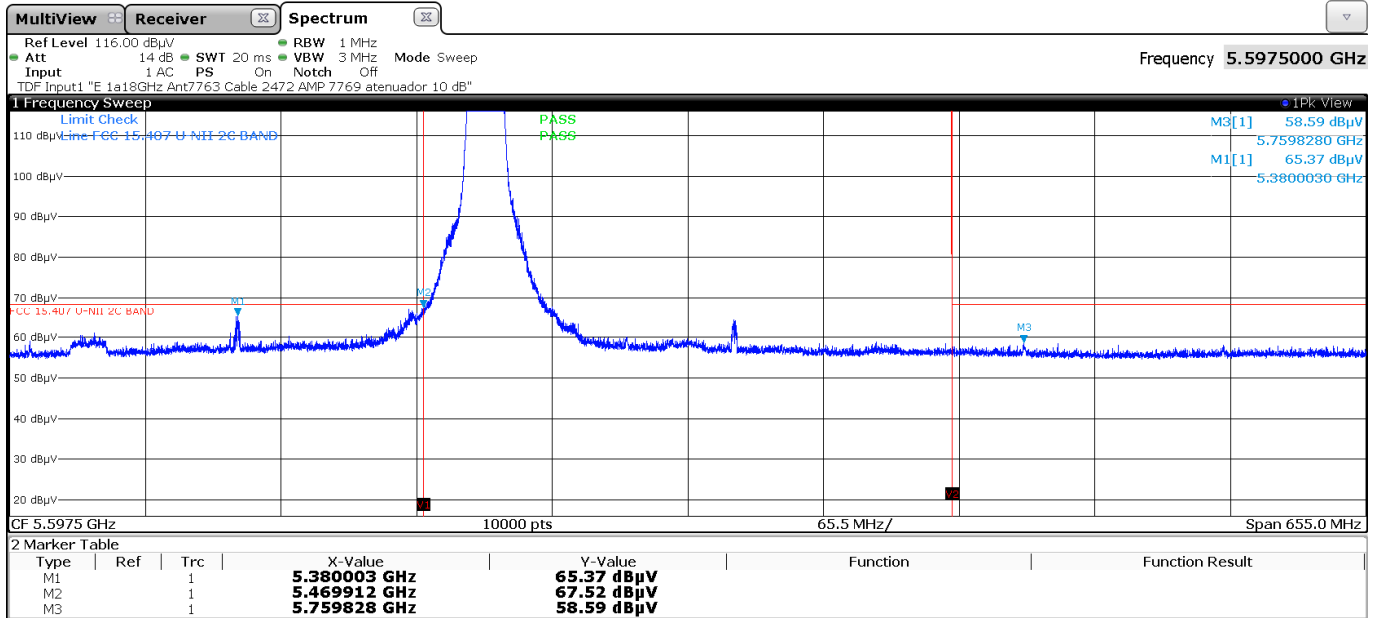
- Lower Band Edge and Upper Band Edge Straddle Channel 144 (5720 MHz):



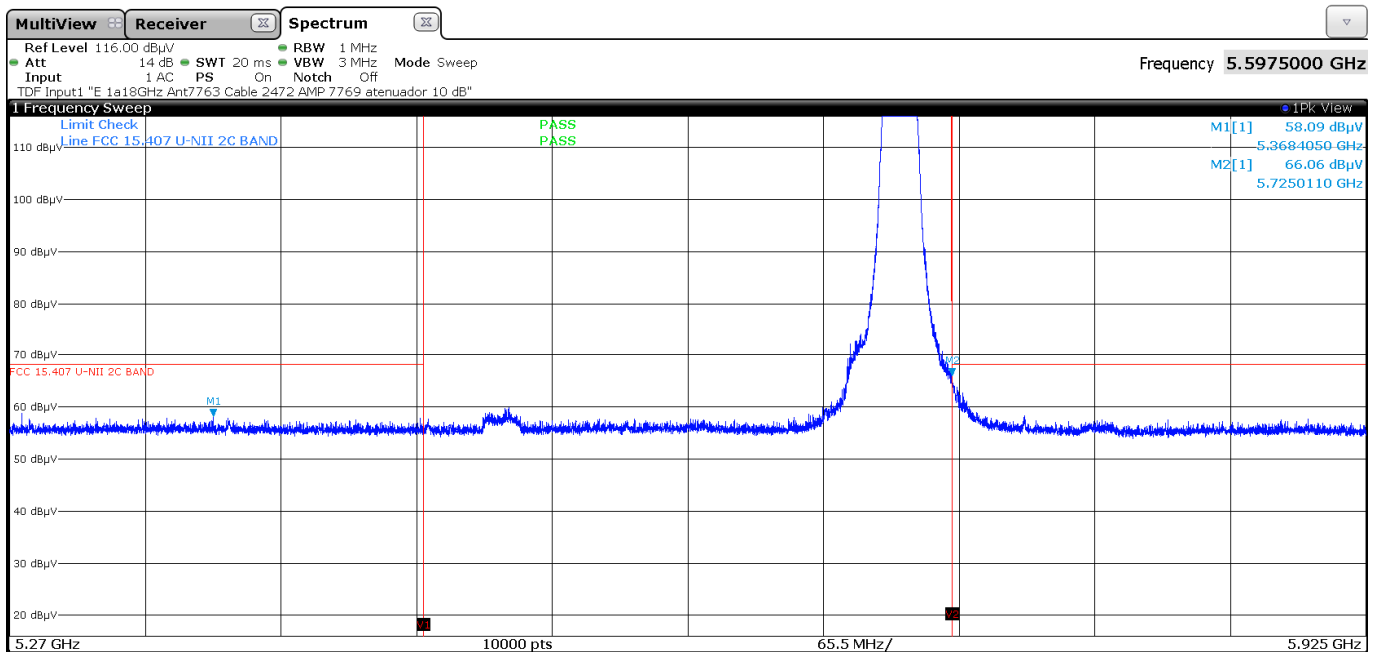
• MIMO 802.11 n20:

**U-NII-2C (5470-5725 MHz):**

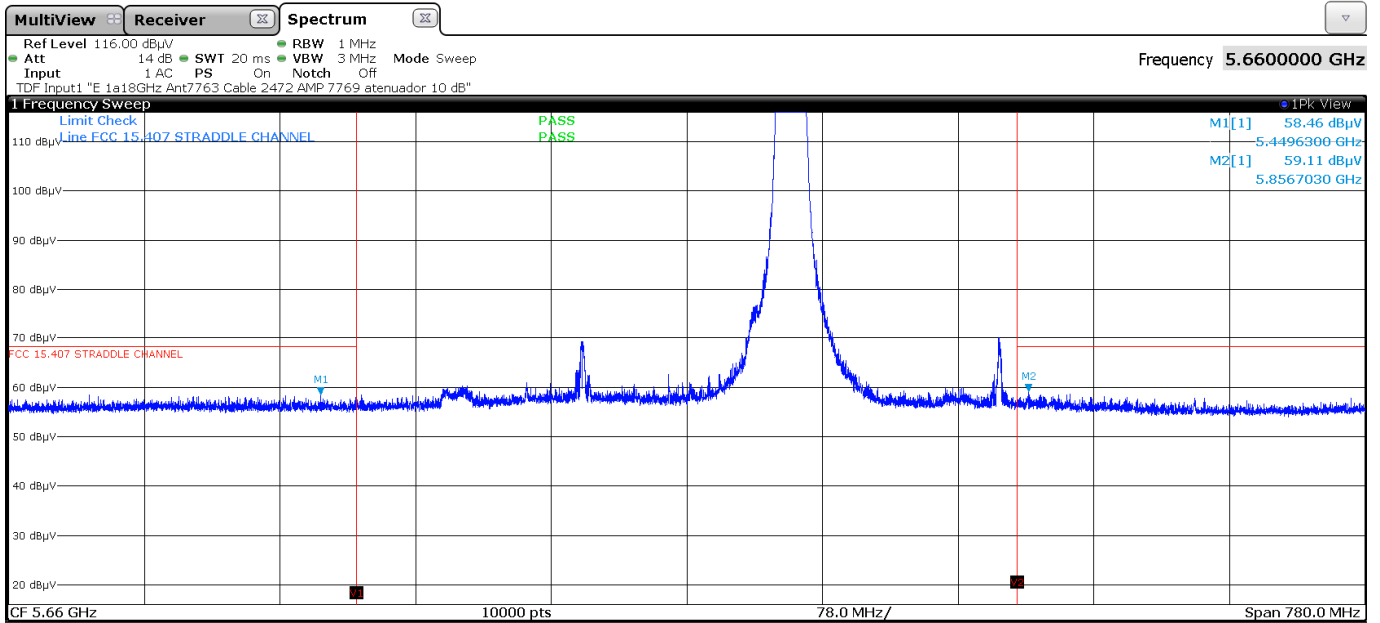
- Lower Band Edge and Upper Band Edge Channel 100 (5500 MHz):



- Lower Band Edge and Upper Band Edge Channel 140 (5700 MHz):



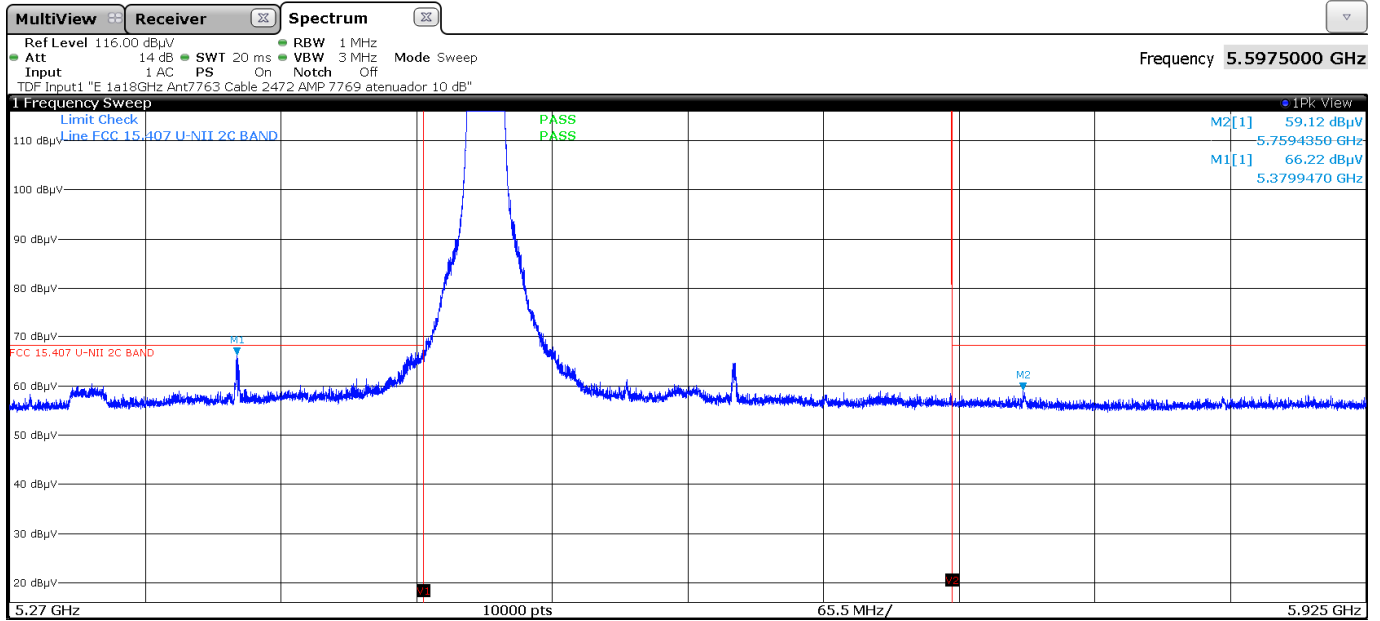
- Lower Band Edge and Upper Band Edge Straddle Channel 144 (5720 MHz):



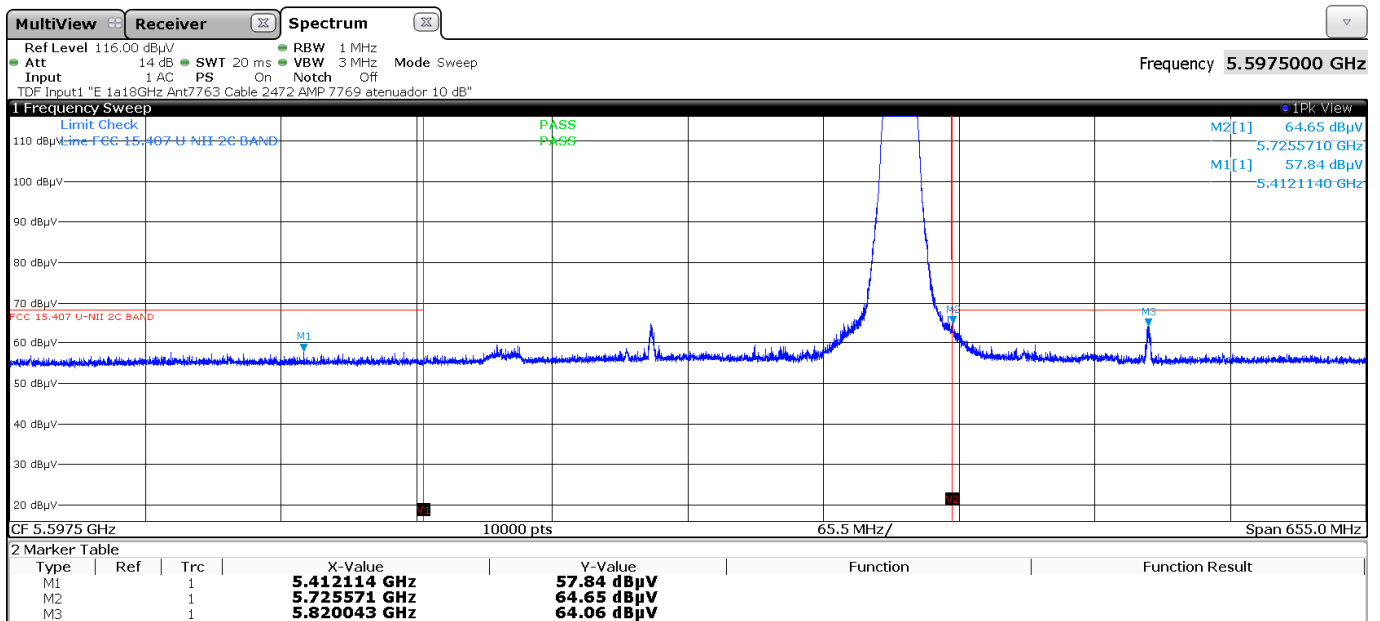
• MIMO 802.11 ac20:

**U-NII-2C (5470-5725 MHz):**

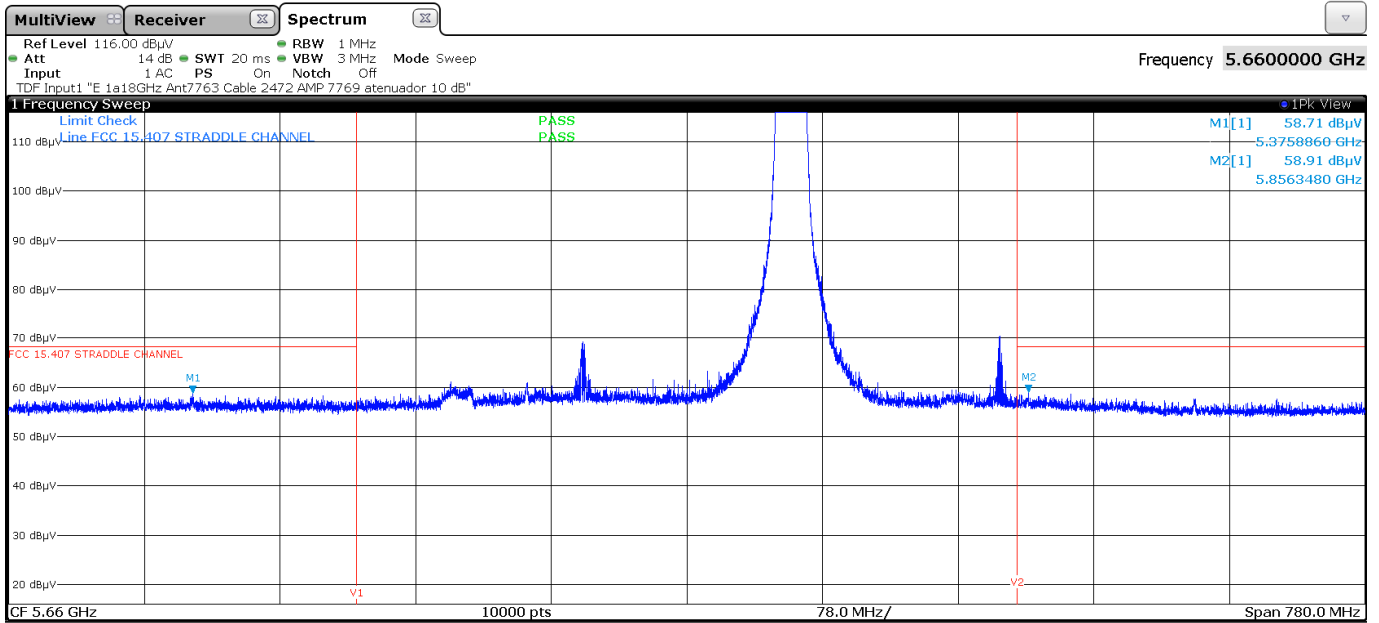
- Lower Band Edge and Upper Band Edge Channel 100 (5500 MHz):



- Lower Band Edge and Upper Band Edge Channel 140 (5700 MHz):



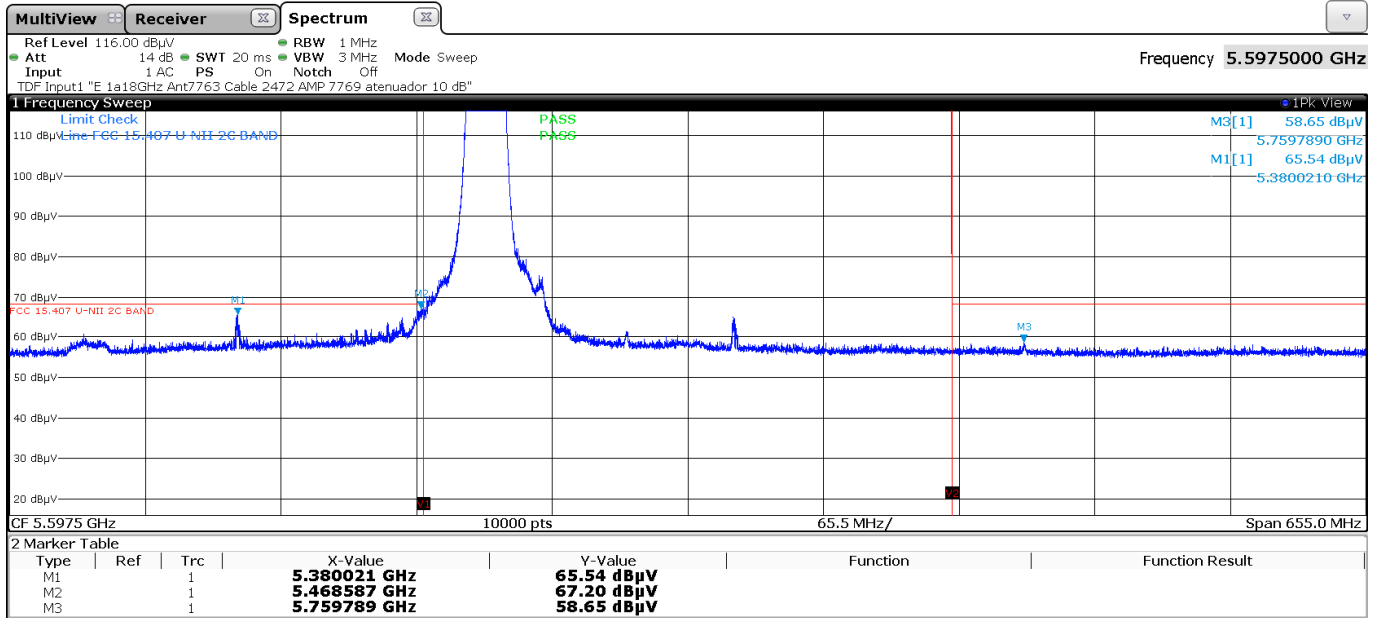
- Lower Band Edge and Upper Band Edge Straddle Channel 144 (5720 MHz):



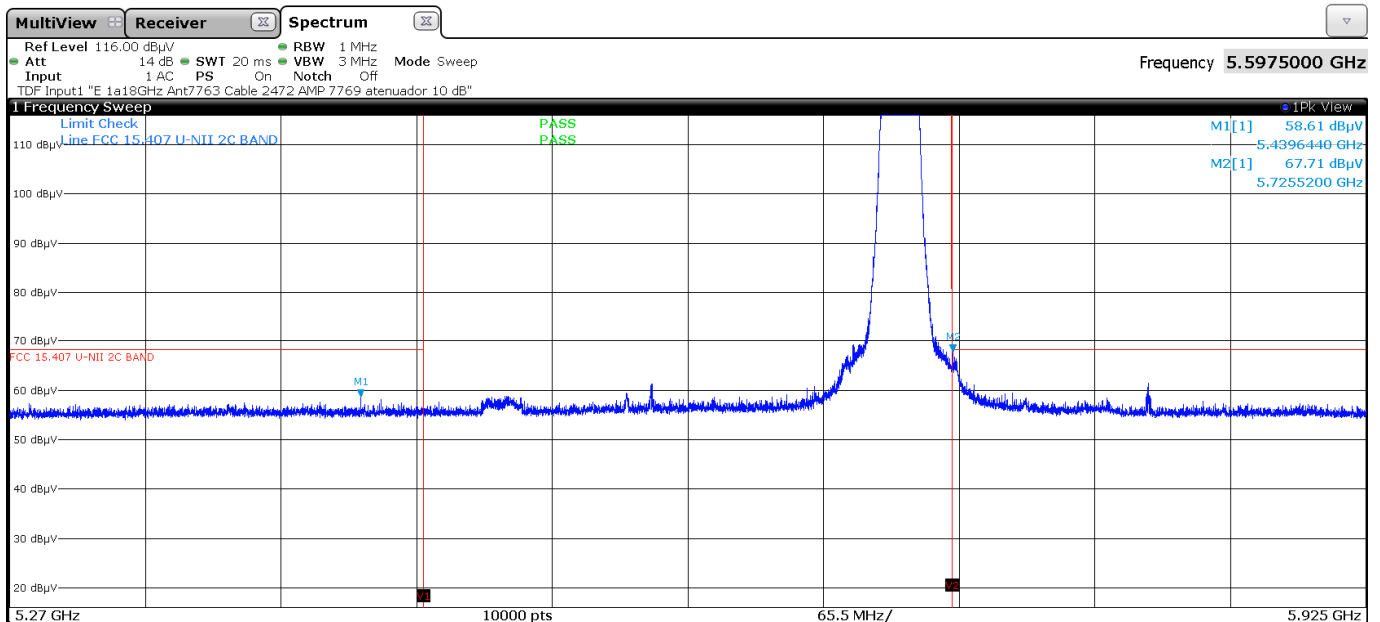
• MIMO 802.11 ax20:

**U-NII-2C (5470-5725 MHz):**

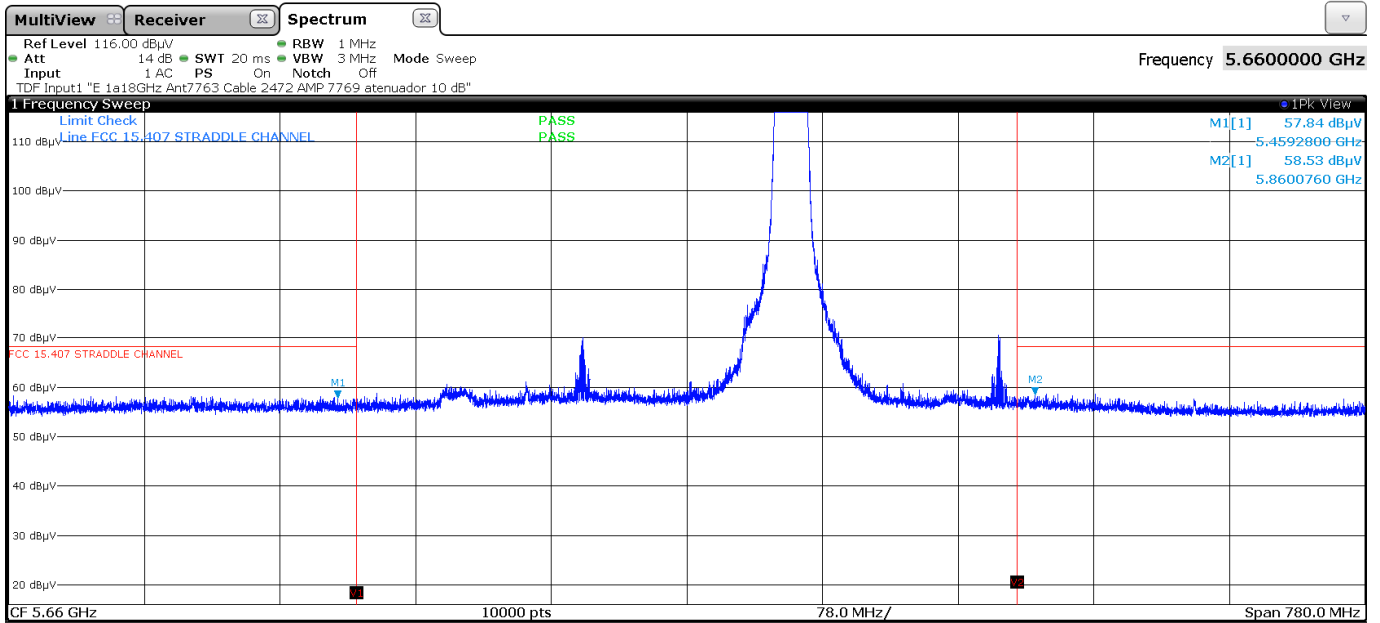
- Lower Band Edge and Upper Band Edge Channel 100 (5500 MHz):



- Lower Band Edge and Upper Band Edge Channel 140 (5700 MHz):



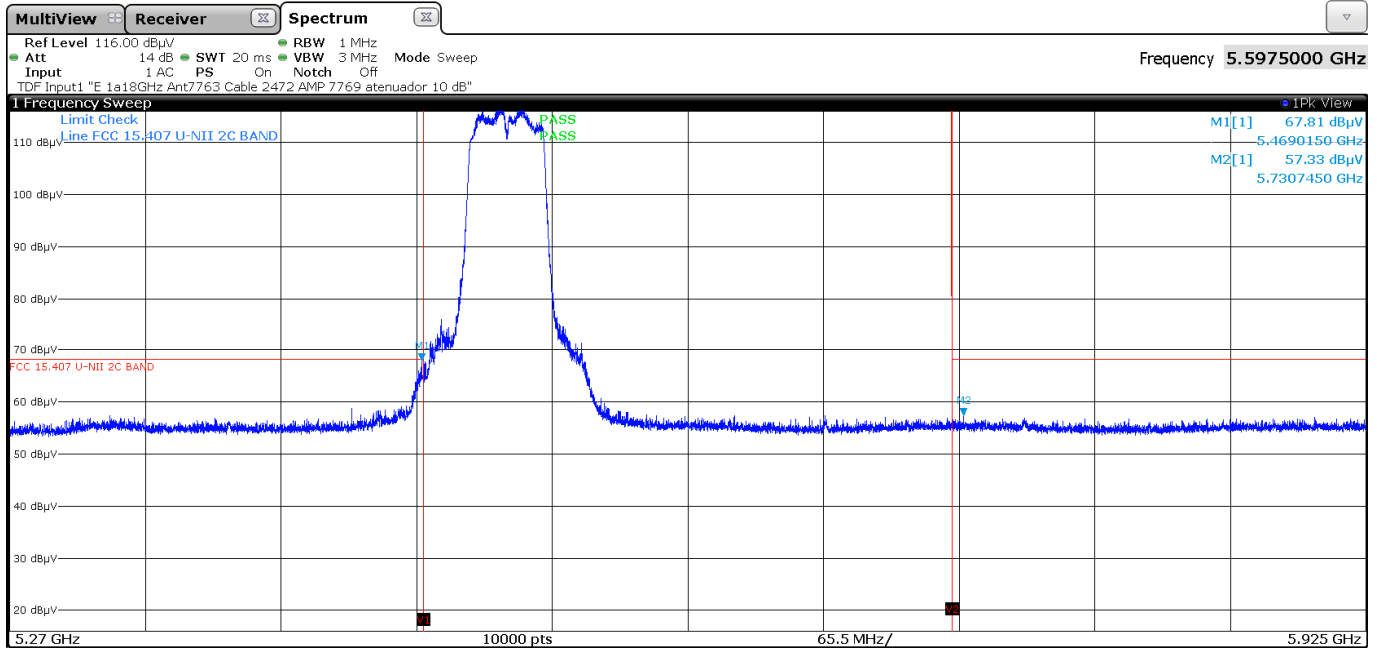
- Lower Band Edge and Upper Band Edge Straddle Channel 144 (5720 MHz):



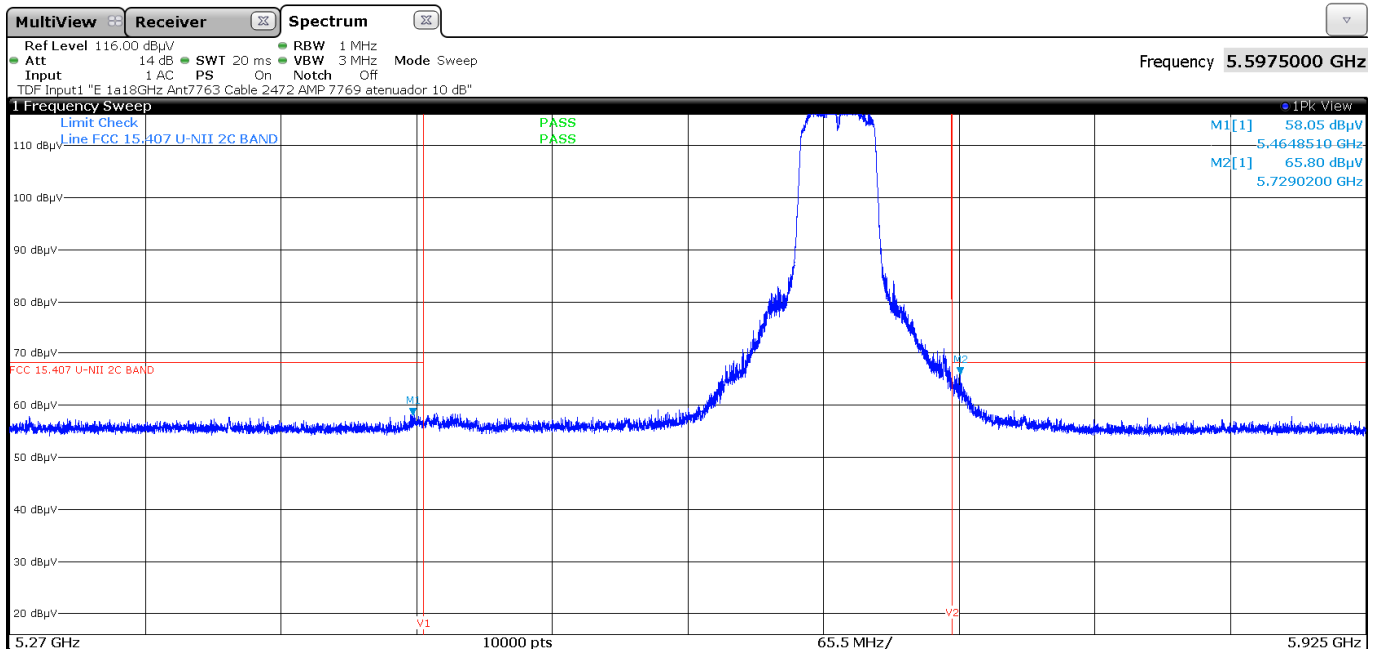
• MIMO 802.11 n40:

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge and Upper Band Edge Channel 102 (5510 MHz):

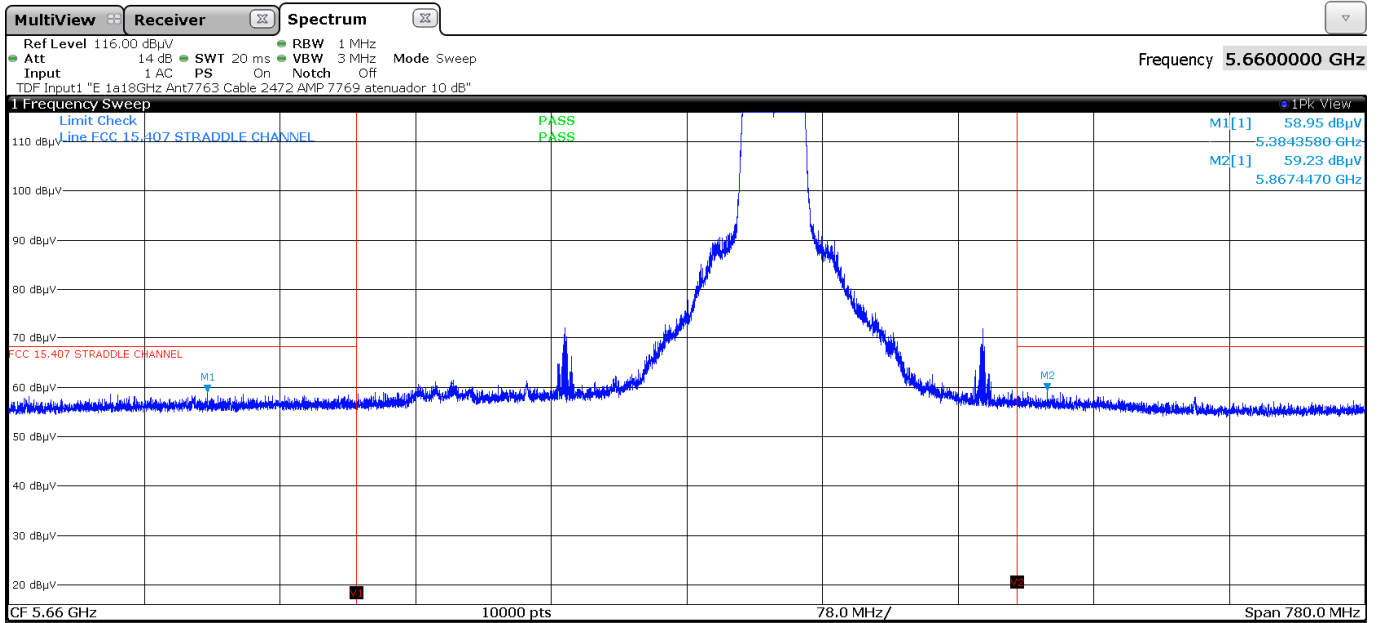


- Lower Band Edge and Upper Band Edge Channel 134 (5670 MHz):





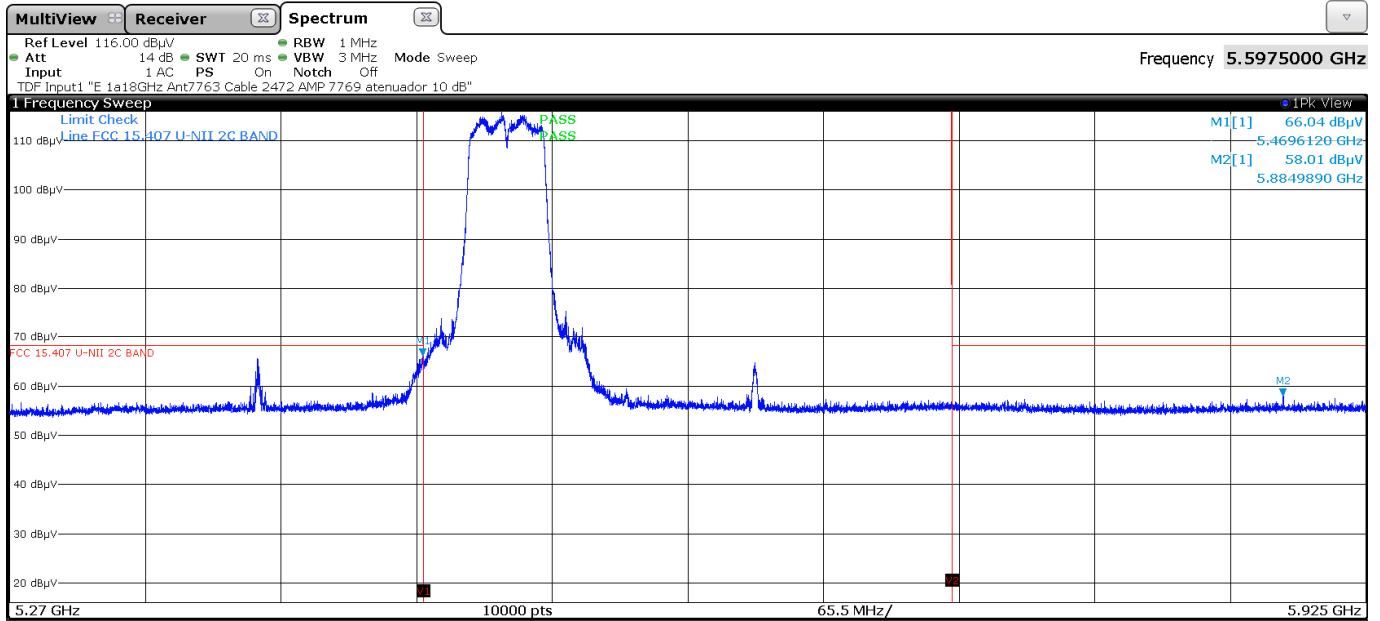
- Lower Band Edge and Upper Band Edge Straddle Channel 142 (5710 MHz):



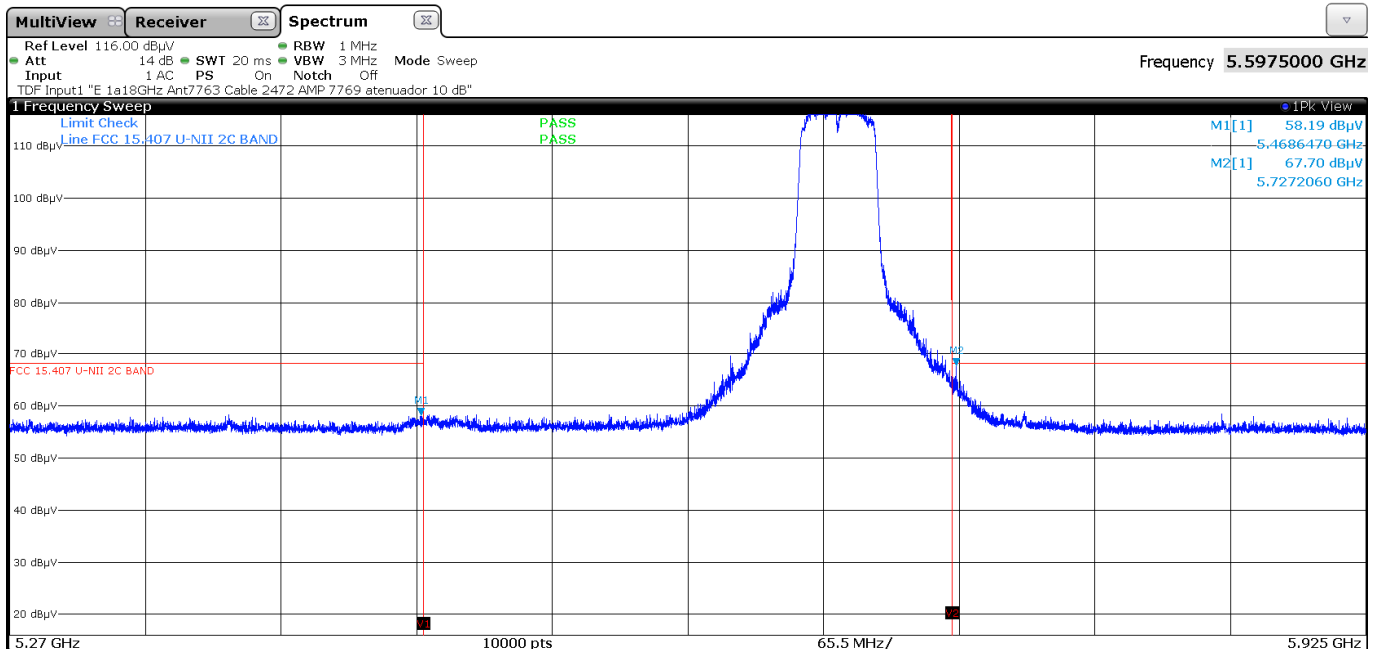
• MIMO 802.11 ac40:

**U-NII-2C (5470-5725 MHz):**

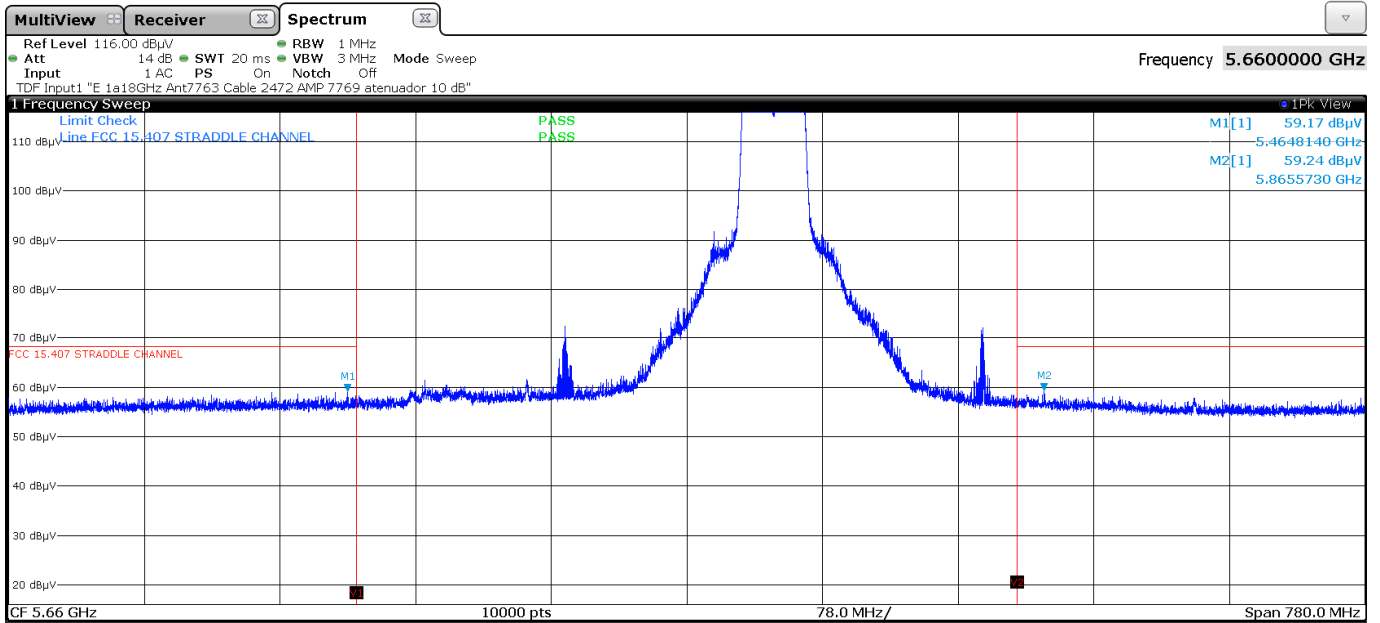
- Lower Band Edge and Upper Band Edge Channel 102 (5510 MHz):



- Lower Band Edge and Upper Band Edge Channel 134 (5670 MHz):



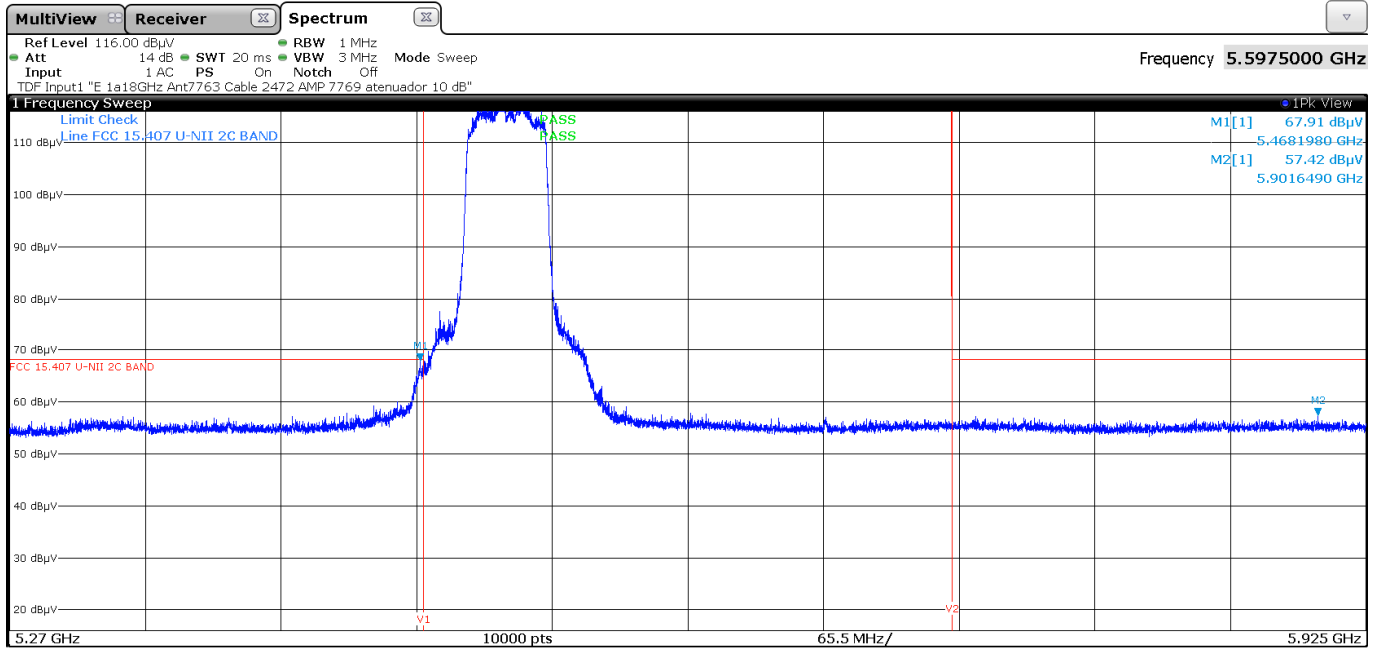
- Lower Band Edge and Upper Band Edge Straddle Channel 142 (5710 MHz):



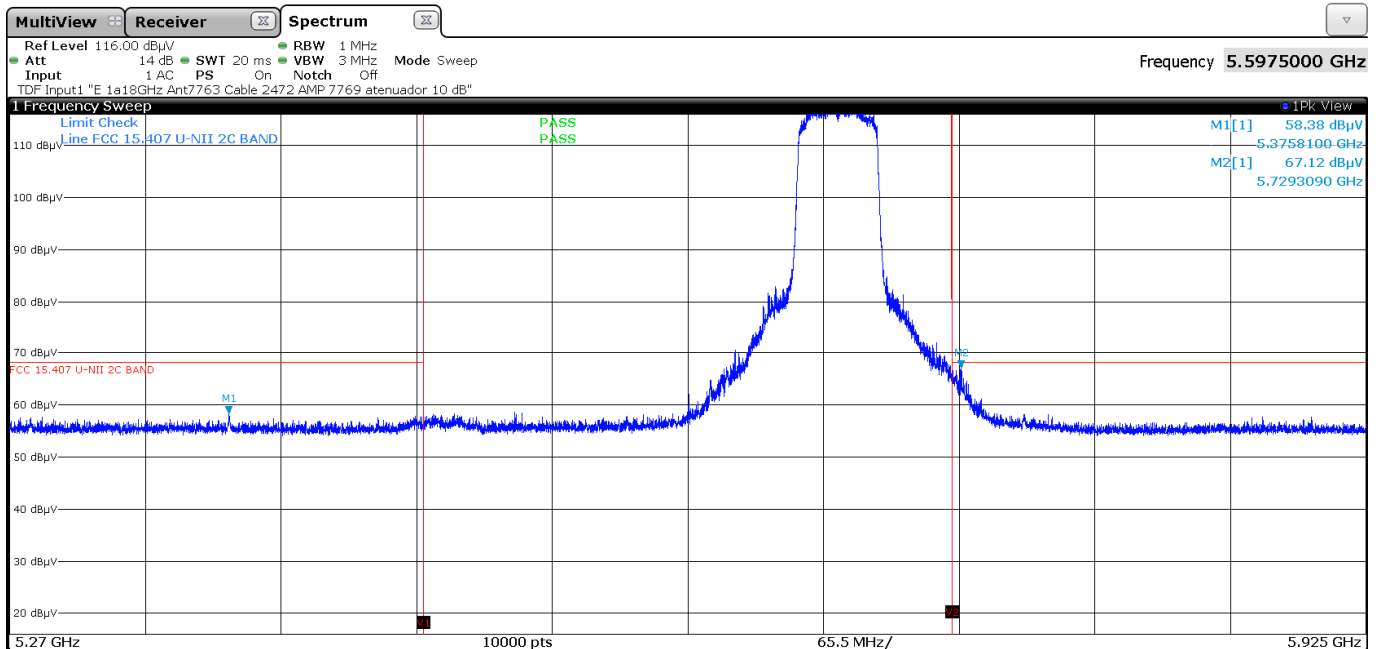
• MIMO 802.11 ax40:

**U-NII-2C (5470-5725 MHz):**

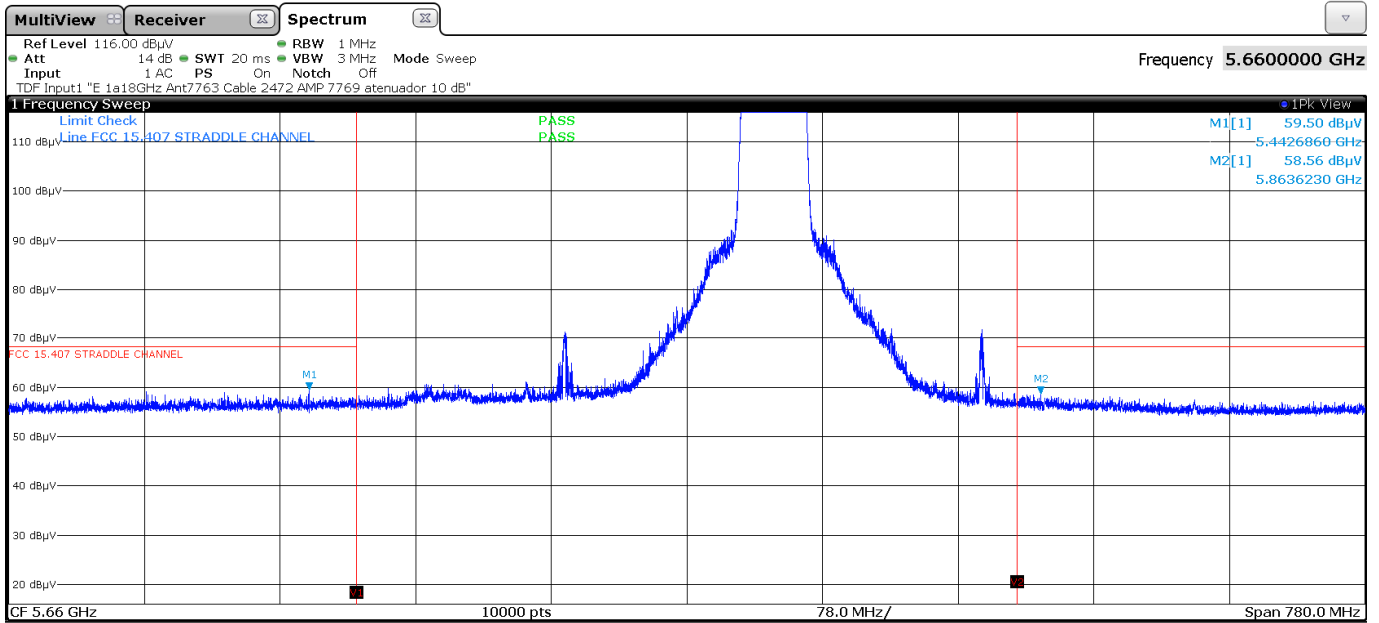
- Lower Band Edge and Upper Band Edge Channel 102 (5510 MHz):



- Lower Band Edge and Upper Band Edge Channel 134 (5670 MHz):



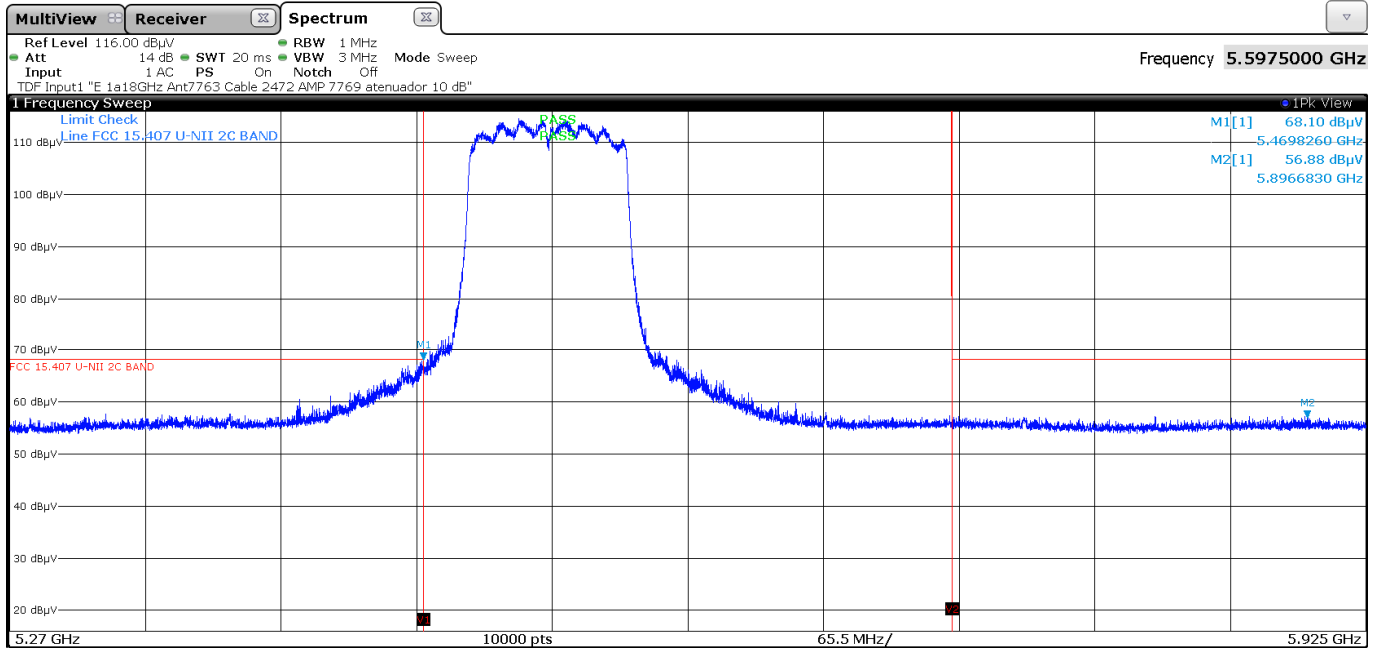
- Lower Band Edge and Upper Band Edge Straddle Channel 142 (5710 MHz):



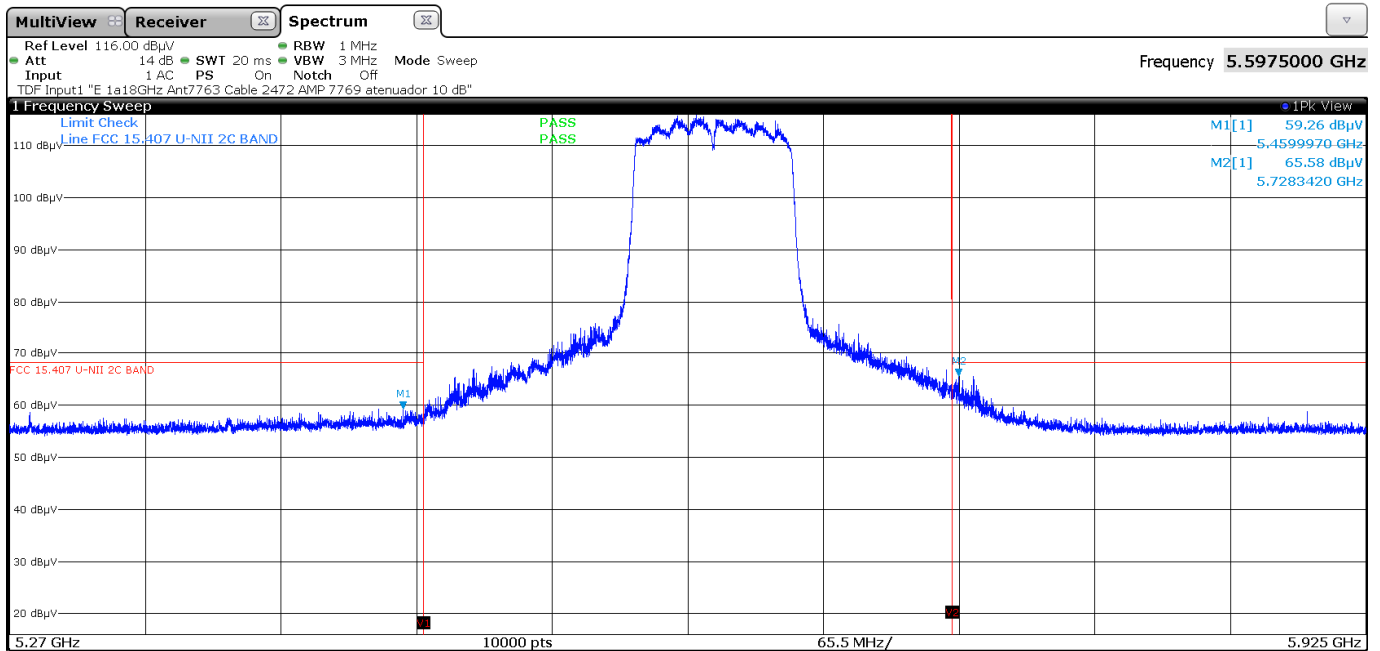
- MIMO 802.11 ac80:

**U-NII-2C (5470-5725 MHz):**

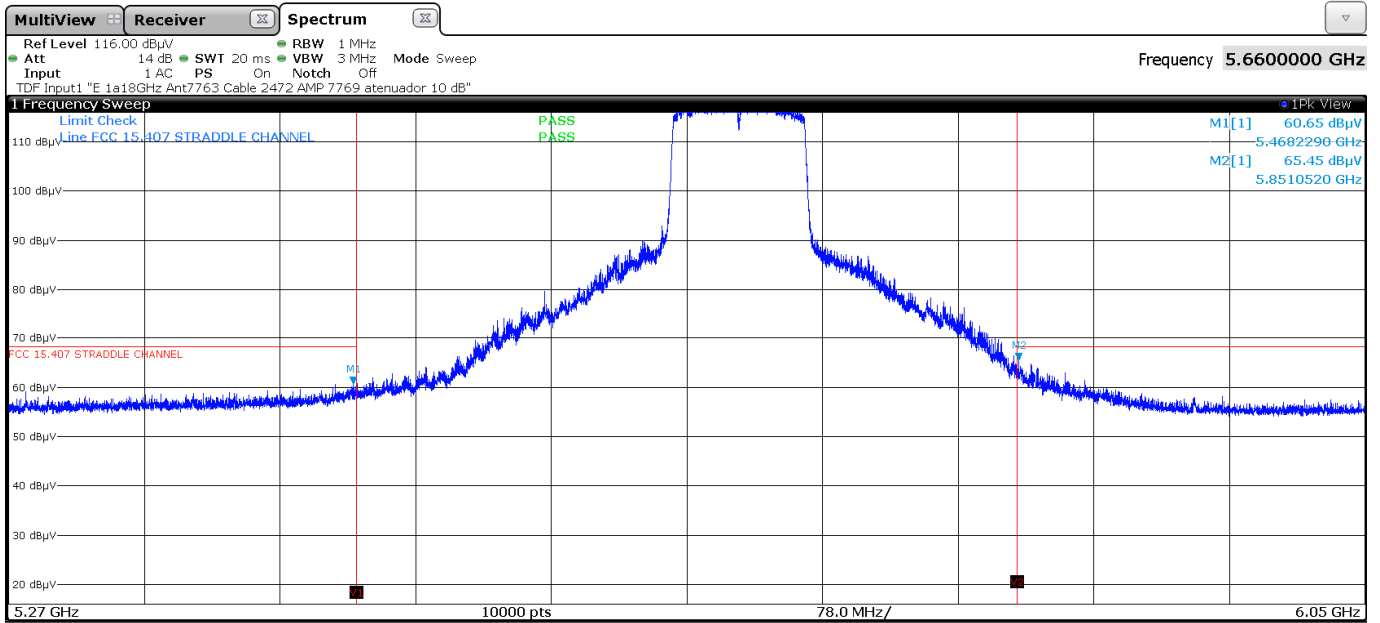
- Lower Band Edge and Upper Band Edge Channel 106 (5530 MHz):



- Lower Band Edge and Upper Band Edge Channel 122 (5610 MHz):



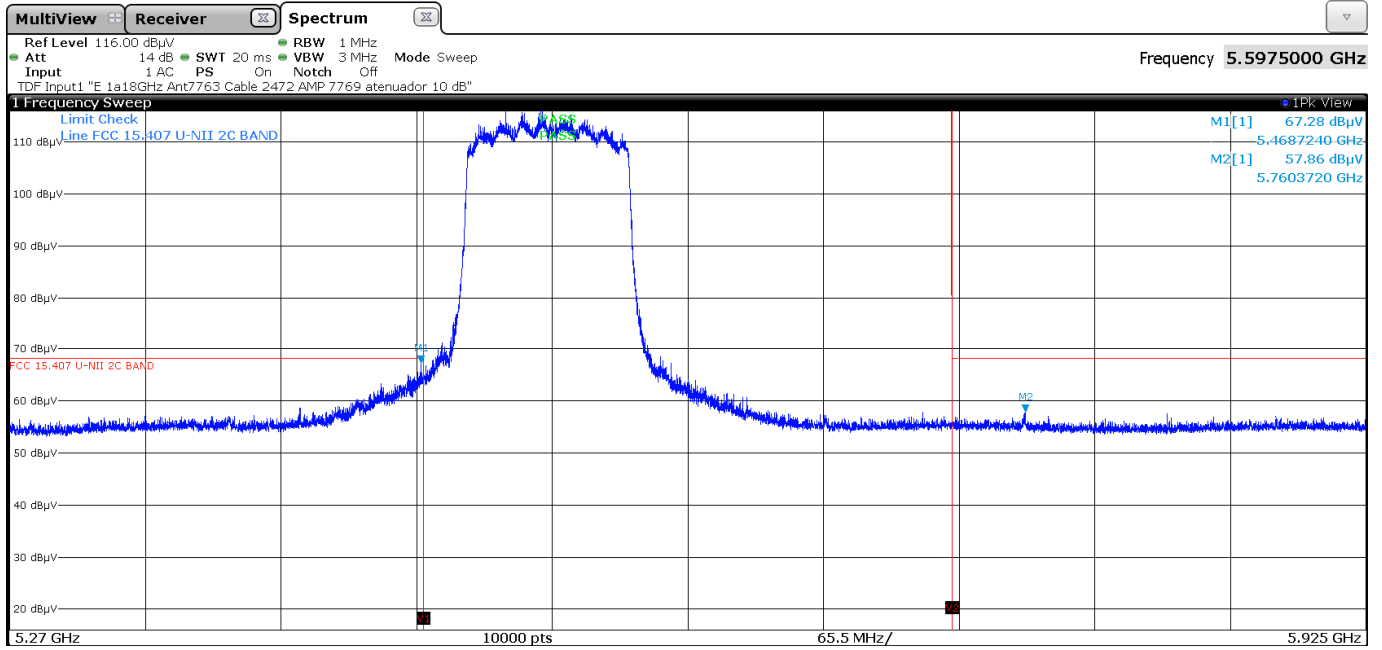
- Lower Band Edge and Upper Band Edge Straddle Channel 138 (5690 MHz):



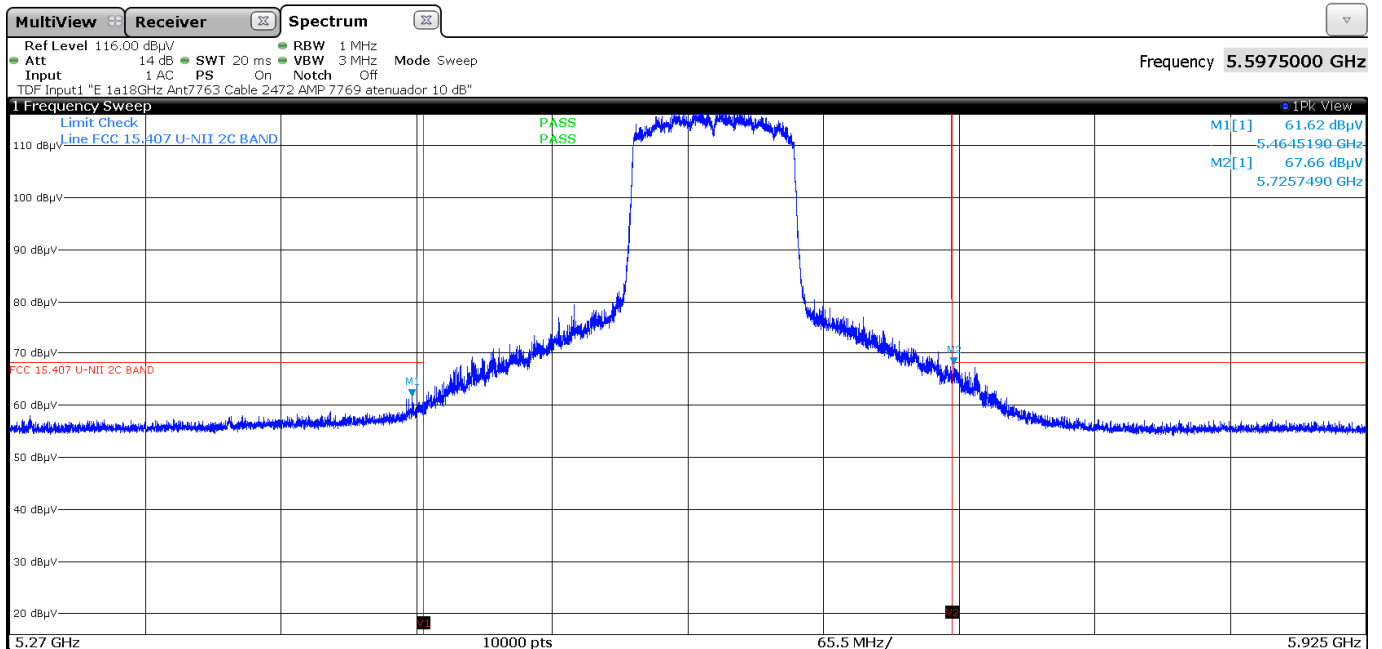
• MIMO 802.11 ax80:

**U-NII-2C (5470-5725 MHz):**

- Lower Band Edge and Upper Band Edge Channel 106 (5530 MHz):

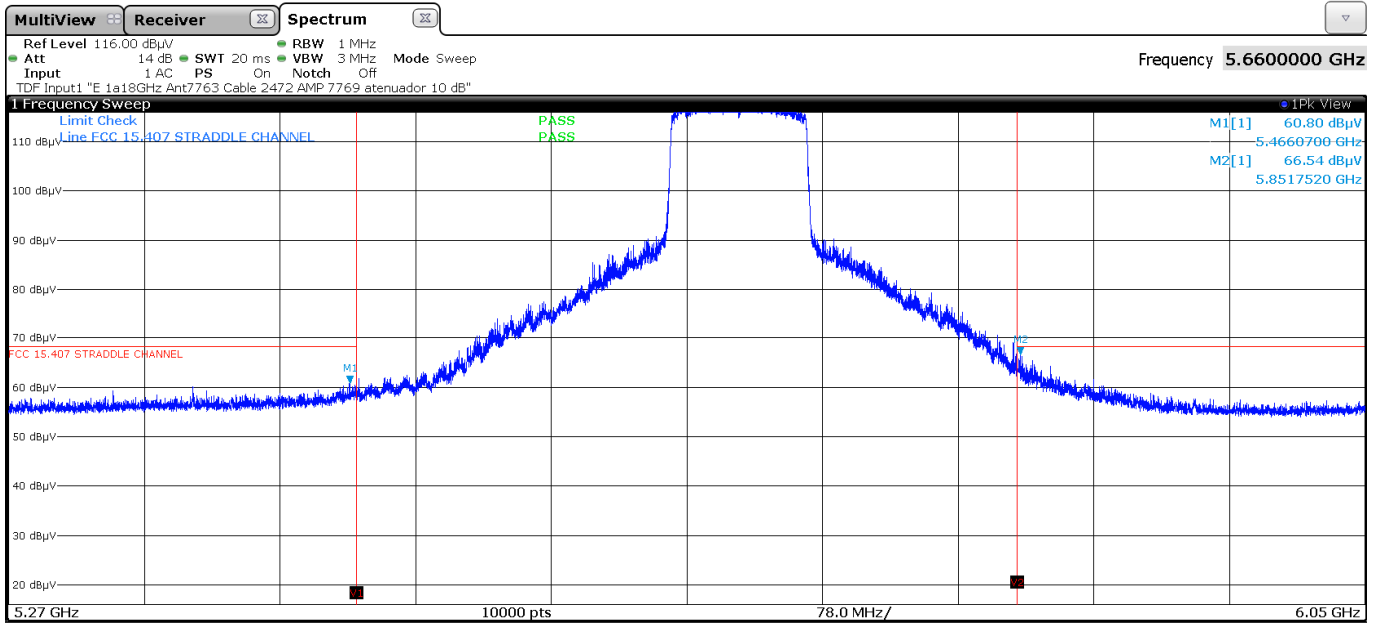


- Lower Band Edge and Upper Band Edge Channel 122 (5610 MHz):





- Lower Band Edge and Upper Band Edge Straddle Channel 138 (5690 MHz):



## FCC Section 15.407(h)(1) / RSS-247 6.2.2.1 Transmitter Power Control

### **SPECIFICATION**

**FCC 15.407/RSS247:** Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW (27dBm).

### **RESULTS:**

The maximum conducted output power was measured using the channel power integration method according to point E) 2) b) (Method SA-1) of 789033 D02 General UNII Test Procedures New Rules v02r01 when the duty cycle is >98%.

In the measure-and-sum approach for MIMO mode, the conducted emission level (*e.g.*, transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units (mW—not dBm).

The e.i.r.p. levels are calculated by adding the antenna gain (dBi).

#### Maximum Declared Antenna Gain:

- SISO Antenna – WLAN1: +5.5 dBi
- MIMO Antennas – WLAN12:
  - WLAN1: +5.5 dBi
  - WLAN2: +4.3 dBi
  - WLAN12: +7.93 dBi

For the SISO technique, the antenna gain is less than 6 dBi.

For the MIMO technique, the antenna gain is higher than 6 dBi.

TPC measurements have only been made for those channels with an E.I.R.P. greater than or equal to 500 mw (27 dBm).

## FCC and IC TPC power setting:

POWER SETTINGS (\*):

### U-NII-2C. FCC and IC:

#### WLAN1

Channel	Frequency	11a	11n	11ac	11ax
100	5500 MHz	18	18.5	18.5	18.5
104	5520 MHz	18.5	18.5	18.5	19
116	5580 MHz	18	18.5	18.5	18.5
140	5700 MHz	18.5	18.5	18.5	18.5
102	5510 MHz		17.5	18.5	19
110	5550 MHz		18.5	19	19.5
118 (**)	5590 MHz		17.5	18.5	18.5
134	5670 MHz		17	17.5	18
106	5530 MHz			19.5	19.5
122 (**)	5610 MHz			18.5	18.5

#### WLAN2

Channel	Frequency	11a	11n	11ac	11ax
100	5500 MHz	18	18	18.5	18.5
104	5520 MHz	18	18.5	18.5	18.5
116	5580 MHz	18.5	19	19	19
140	5700 MHz	N/A	19	N/A	N/A
102	5510 MHz		N/A	N/A	N/A
110	5550 MHz		18	18	18.5
118 (**)	5590 MHz		18.5	18	19
134	5670 MHz		18	N/A	N/A
106	5530 MHz			N/A	N/A
122 (**)	5610 MHz			N/A	N/A

#### WLAN12

Channel	Frequency	11a	11n	11ac	11ax
100	5500 MHz	12	12	12	12.5
104	5520 MHz	12	12.5	12.5	12.5
116	5580 MHz	12	12.5	12.5	12.5
140	5700 MHz	12	12.5	12.5	12.5
102	5510 MHz		12	12	12
110	5550 MHz		12.5	12.5	12.5
118 (**)	5590 MHz		12	12	12
134	5670 MHz		12	12	12
106	5530 MHz			13	13
122 (**)	5610 MHz			12.5	13

(\*\*): Channel not allowed in Canada.

**SISO worst-case:**

- Preliminary tests determined the SISO worst-case: WLAN1.

**SISO 802.11 a20:**

**U-NII-2C (5470-5725 MHz):**

Channels	Low Channel 100 (5500 MHz)	Low+1 Channel 104 (5520 MHz)	Middle-1 Channel 116 (5580 MHz)	High Channel 140 (5700 MHz)
Maximum Corrected Conducted Power (dBm)	18.12	18.43	18.39	18.48
Maximum EIRP Corrected Conducted Power (dBm)	23.62	23.93	23.89	23.98
Measurement uncertainty (kHz)	<±36.95			

**SISO 802.11 n20 (HT20):**

**U-NII-2C (5470-5725 MHz):**

Channels	Low Channel 100 (5500 MHz)	Low+1 Channel 104 (5520 MHz)	Middle-1 Channel 116 (5580 MHz)	High Channel 140 (5700 MHz)
Maximum Corrected Conducted Power (dBm)	18.26	18.05	18.44	18.43
Maximum EIRP Corrected Conducted Power (dBm)	23.76	23.55	23.94	23.93
Measurement uncertainty (kHz)	<±36.95			

**SISO 802.11 ac20 (VHT20):**

**U-NII-2C (5470-5725 MHz):**

Channels	Low Channel 100 (5500 MHz)	Low+1 Channel 104 (5520 MHz)	Middle-1 Channel 116 (5580 MHz)	High Channel 140 (5700 MHz)
Maximum Corrected Conducted Power (dBm)	18.27	18.06	18.38	18.45
Maximum EIRP Corrected Conducted Power (dBm)	23.77	23.56	23.88	23.95
Measurement uncertainty (kHz)	<±36.95			

**SISO 802.11 ax20 (HE20):**

**U-NII-2C (5470-5725 MHz):**

Channels	Low Channel 100 (5500 MHz)	Low+1 Channel 104 (5520 MHz)	Middle-1 Channel 116 (5580 MHz)	High Channel 140 (5700 MHz)
Maximum Corrected Conducted Power (dBm)	18.11	18.41	18.25	18.28
Maximum EIRP Corrected Conducted Power (dBm)	23.61	23.91	23.75	23.78
Measurement uncertainty (kHz)	<±36.95			

**SISO 802.11 n40 (HT40):**

**U-NII-2C (5470-5725 MHz):**

Channels	Low Channel 102 (5510 MHz)	Low+1 Channel 110 (5550 MHz)	Middle Channel 118 (5590 MHz) (**)	High Channel 134 (5670 MHz)
Maximum Corrected Conducted Power (dBm)	18.01	18.48	18.35	18.34
Maximum EIRP Corrected Conducted Power (dBm)	23.51	23.98	23.85	23.84
Measurement uncertainty (kHz)	<±36.95			

(\*\*): Channel not allowed in Canada.

**SISO 802.11 ac40 (VHT40):**

**U-NII-2C (5470-5725 MHz):**

Channels	Low Channel 102 (5510 MHz)	Low+1 Channel 110 (5550 MHz)	Middle Channel 118 (5590 MHz) (**)	High Channel 134 (5670 MHz)
Maximum Corrected Conducted Power (dBm)	18.04	18.18	18.45	18.14
Maximum EIRP Corrected Conducted Power (dBm)	23.54	23.68	23.95	23.64
Measurement uncertainty (kHz)	<±36.95			

(\*\*): Channel not allowed in Canada.

**SISO 802.11 ax40 (HE40):**

**U-NII-2C (5470-5725 MHz):**

Channels	Low Channel 102 (5510 MHz)	Low+1 Channel 110 (5550 MHz)	Middle Channel 118 (5590 MHz) (**)	High Channel 134 (5670 MHz)
Maximum Corrected Conducted Power (dBm)	18.06	18.18	17.99	18.29
Maximum EIRP Corrected Conducted Power (dBm)	23.56	23.68	23.49	23.79
Measurement uncertainty (kHz)	<±36.95			

(\*\*): Channel not allowed in Canada.

**SISO 802.11 ac80 (VHT80):**

**U-NII-2C (5470-5725 MHz):**

Channels	Low Channel 106 (5530 MHz)	High Channel 122 (5610 MHz) (**)
Maximum Corrected Conducted Power (dBm)	18.10	18.27
Maximum EIRP Corrected Conducted Power (dBm)	23.6	23.77
Measurement uncertainty (kHz)	<±36.95	

(\*\*): Channel not allowed in Canada.

**SISO 802.11 ax80 (HE80):**

**U-NII-2C (5470-5725 MHz):**

Channels	Low Channel 106 (5530 MHz)	High Channel 122 (5610 MHz) (**)
Maximum Corrected Conducted Power (dBm)	17.97	18.09
Maximum EIRP Corrected Conducted Power (dBm)	23.47	23.59
Measurement uncertainty (kHz)	<±36.95	

(\*\*): Channel not allowed in Canada.

Verdict: PASS

**MIMO worst-case:**

- Preliminary tests determined the MIMO worst-case: WLAN12.

**SISO 802.11 a20:**

**U-NII-2C (5470-5725 MHz):**

Channels	Low Channel 100 (5500 MHz)	Low+1 Channel 104 (5520 MHz)	Middle-1 Channel 116 (5580 MHz)	High Channel 140 (5700 MHz)
Maximum Corrected Conducted Power (dBm)	15.99	15.78	15.72	15.57
Maximum EIRP Corrected Conducted Power (dBm)	23.92	23.71	23.65	23.50
Measurement uncertainty (kHz)	<±36.95			

**SISO 802.11 n20 (HT20):**

**U-NII-2C (5470-5725 MHz):**

Channels	Low Channel 100 (5500 MHz)	Low+1 Channel 104 (5520 MHz)	Middle-1 Channel 116 (5580 MHz)	High Channel 140 (5700 MHz)
Maximum Corrected Conducted Power (dBm)	15.64	15.90	15.94	15.68
Maximum EIRP Corrected Conducted Power (dBm)	23.57	23.83	23.87	23.61
Measurement uncertainty (kHz)	<±36.95			

**SISO 802.11 ac20 (VHT20):**

**U-NII-2C (5470-5725 MHz):**

Channels	Low Channel 100 (5500 MHz)	Low+1 Channel 104 (5520 MHz)	Middle-1 Channel 116 (5580 MHz)	High Channel 140 (5700 MHz)
Maximum Corrected Conducted Power (dBm)	15.62	15.88	15.93	15.71
Maximum EIRP Corrected Conducted Power (dBm)	23.55	23.81	23.86	23.64
Measurement uncertainty (kHz)	<±36.95			

**SISO 802.11 ax20 (HE20):**

**U-NII-2C (5470-5725 MHz):**

Channels	Low Channel 100 (5500 MHz)	Low+1 Channel 104 (5520 MHz)	Middle-1 Channel 116 (5580 MHz)	High Channel 140 (5700 MHz)
Maximum Corrected Conducted Power (dBm)	15.95	15.72	15.77	15.36
Maximum EIRP Corrected Conducted Power (dBm)	23.88	23.65	23.70	23.29
Measurement uncertainty (kHz)	<±36.95			

**SISO 802.11 n40 (HT40):**

**U-NII-2C (5470-5725 MHz):**

Channels	Low Channel 102 (5510 MHz)	Low+1 Channel 110 (5550 MHz)	Middle Channel 118 (5590 MHz) (**)	High Channel 134 (5670 MHz)
Maximum Corrected Conducted Power (dBm)	15.68	15.91	15.61	15.81
Maximum EIRP Corrected Conducted Power (dBm)	23.61	23.84	23.54	23.74
Measurement uncertainty (kHz)	<±36.95			

(\*\*): Channel not allowed in Canada.

**SISO 802.11 ac40 (VHT40):**

**U-NII-2C (5470-5725 MHz):**

Channels	Low Channel 102 (5510 MHz)	Low+1 Channel 110 (5550 MHz)	Middle Channel 118 (5590 MHz) (**)	High Channel 134 (5670 MHz)
Maximum Corrected Conducted Power (dBm)	15.69	15.86	15.58	15.78
Maximum EIRP Corrected Conducted Power (dBm)	23.62	23.79	23.51	23.71
Measurement uncertainty (kHz)	<±36.95			

(\*\*): Channel not allowed in Canada.



**SISO 802.11 ax40 (HE40):**

**U-NII-2C (5470-5725 MHz):**

Channels	Low Channel 102 (5510 MHz)	Low+1 Channel 110 (5550 MHz)	Middle Channel 118 (5590 MHz) (**)	High Channel 134 (5670 MHz)
Maximum Corrected Conducted Power (dBm)	15.74	15.91	15.63	15.72
Maximum EIRP Corrected Conducted Power (dBm)	23.67	23.84	23.56	23.65
Measurement uncertainty (kHz)	<±36.95			

(\*\*): Channel not allowed in Canada.

**SISO 802.11 ac80 (VHT80):**

**U-NII-2C (5470-5725 MHz):**

Channels	Low Channel 106 (5530 MHz)	High Channel 122 (5610 MHz) (**)
Maximum Corrected Conducted Power (dBm)	15.97	15.59
Maximum EIRP Corrected Conducted Power (dBm)	23.90	23.52
Measurement uncertainty (kHz)	<±36.95	

(\*\*): Channel not allowed in Canada.

**SISO 802.11 ax80 (HE80):**

**U-NII-2C (5470-5725 MHz):**

Channels	Low Channel 106 (5530 MHz)	High Channel 122 (5610 MHz) (**)
Maximum Corrected Conducted Power (dBm)	15.83	15.84
Maximum EIRP Corrected Conducted Power (dBm)	23.76	23.77
Measurement uncertainty (kHz)	<±36.95	

(\*\*): Channel not allowed in Canada.

Verdict: PASS