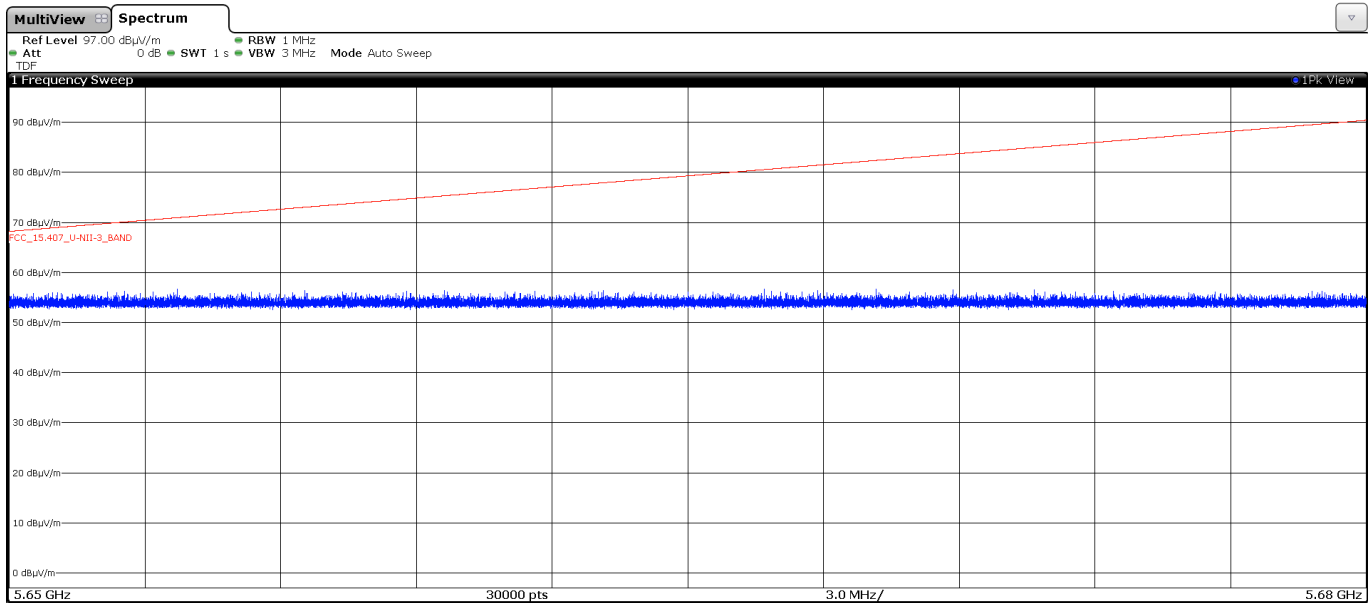
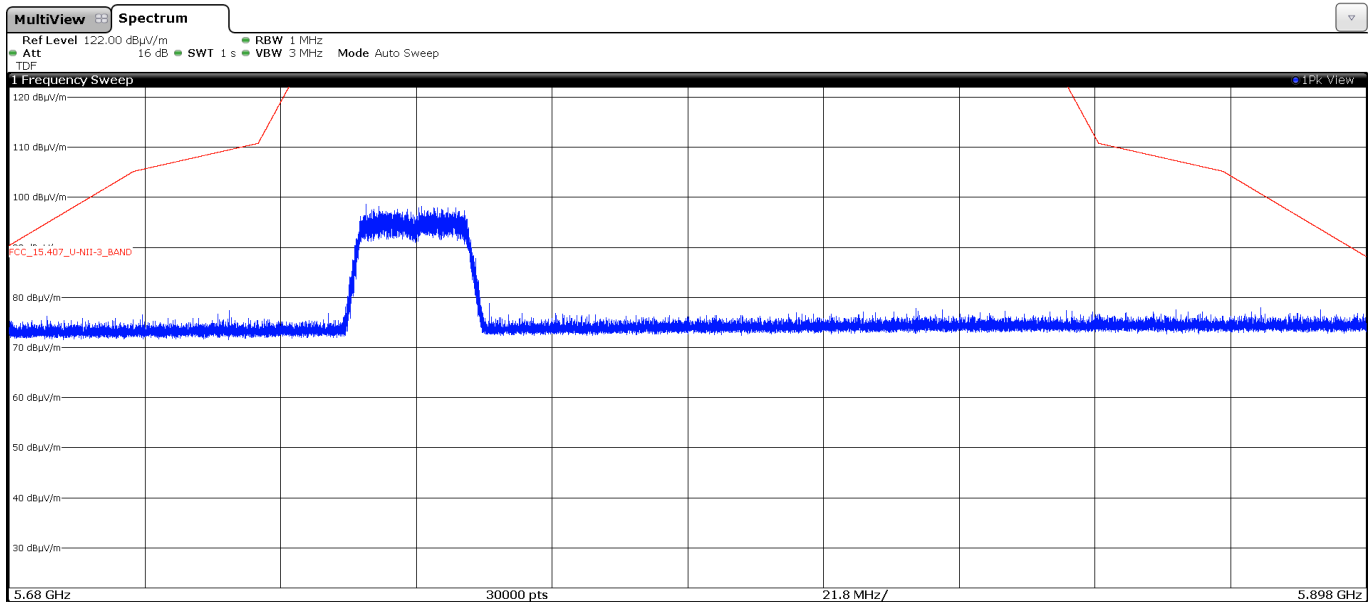


- High Channel 165 (5825 MHz):

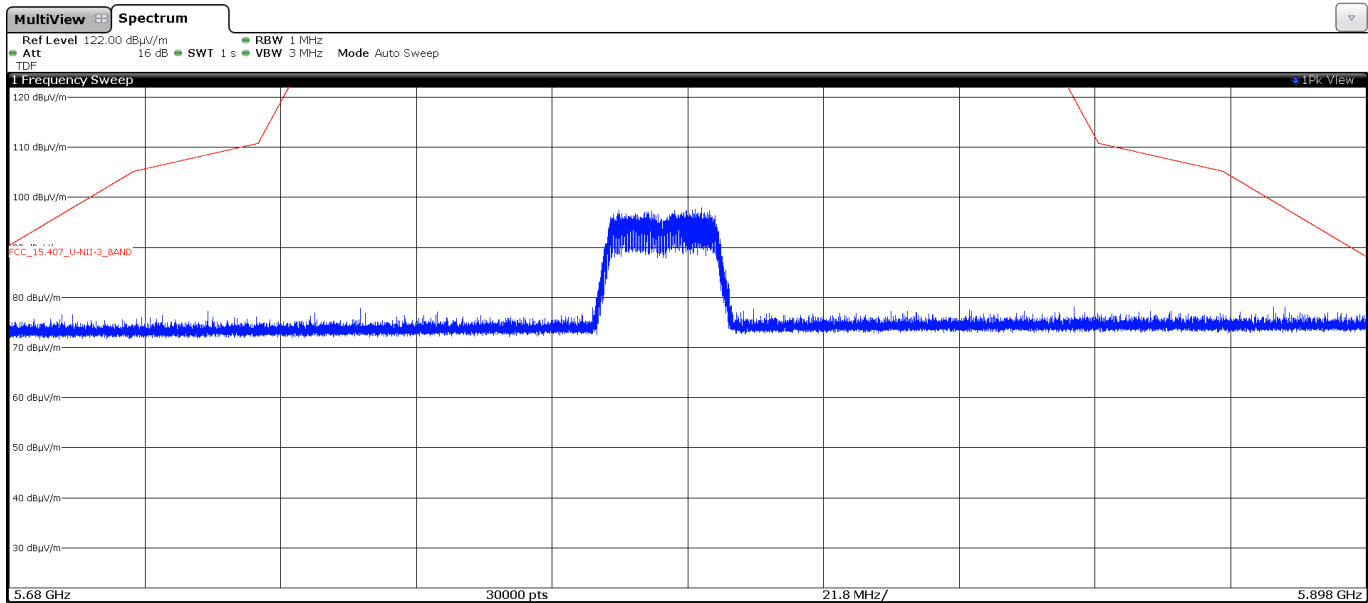


Radiated spurious emissions at band edges and inside adjacent band 5.68 – 5.898 GHz

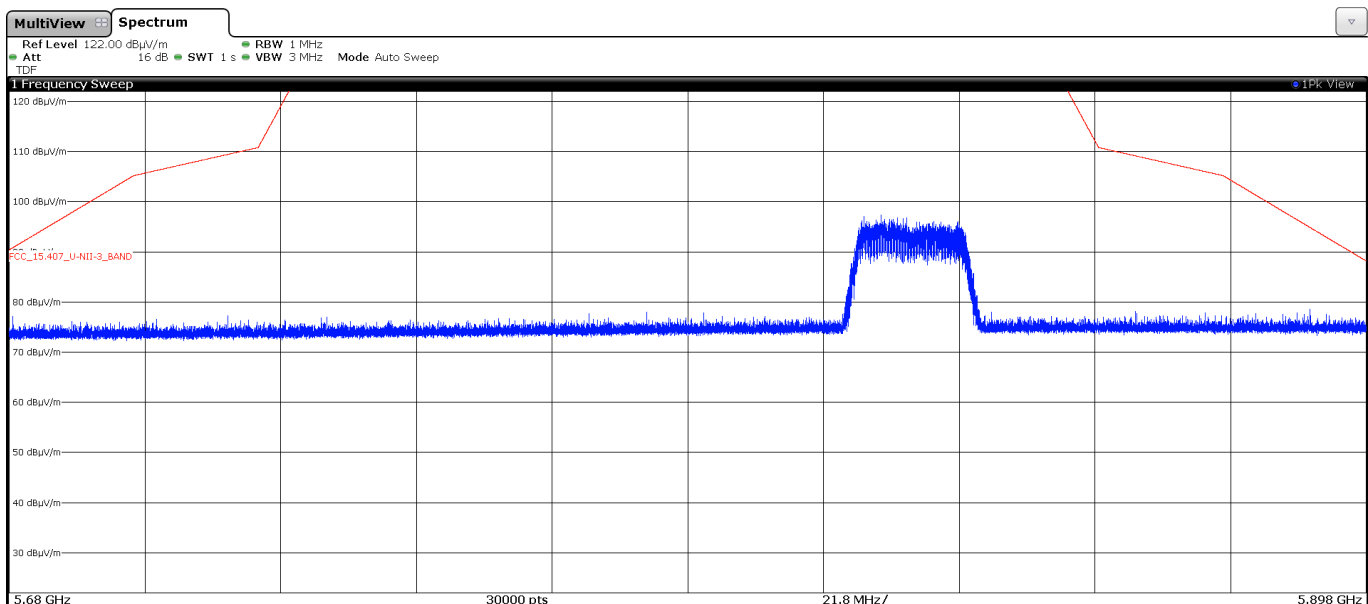
- Low Channel 149 (5745MHz):



- Middle Channel 157 (5785MHz):

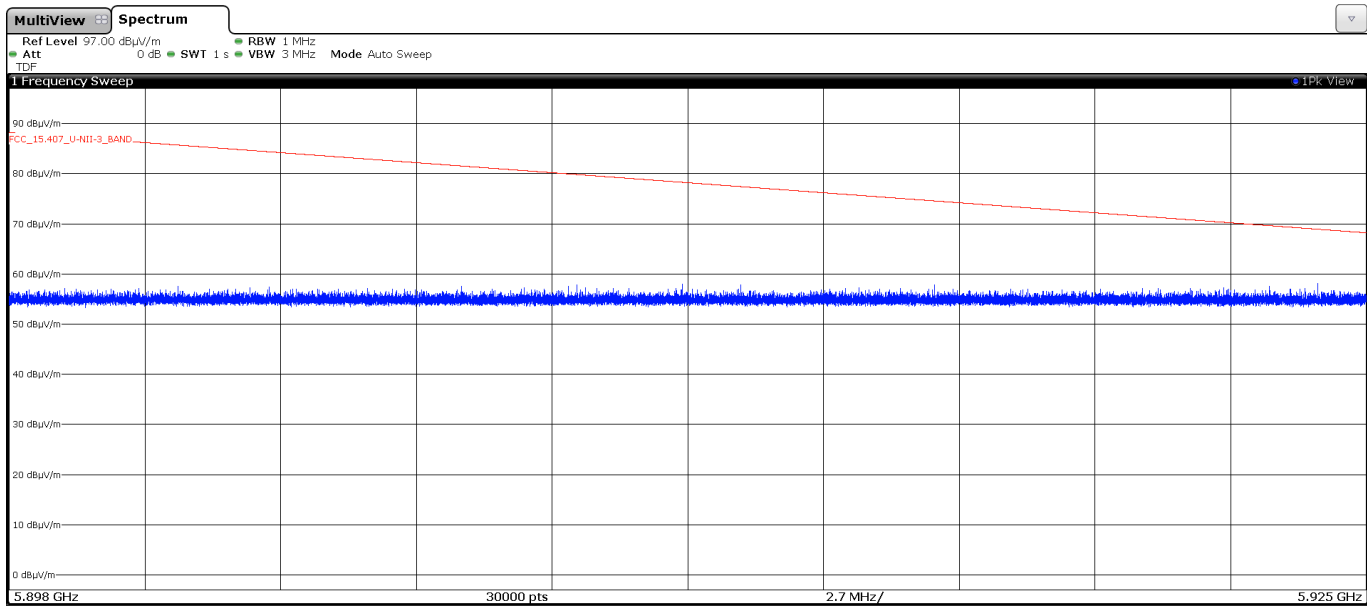


- High Channel 165 (5825MHz):

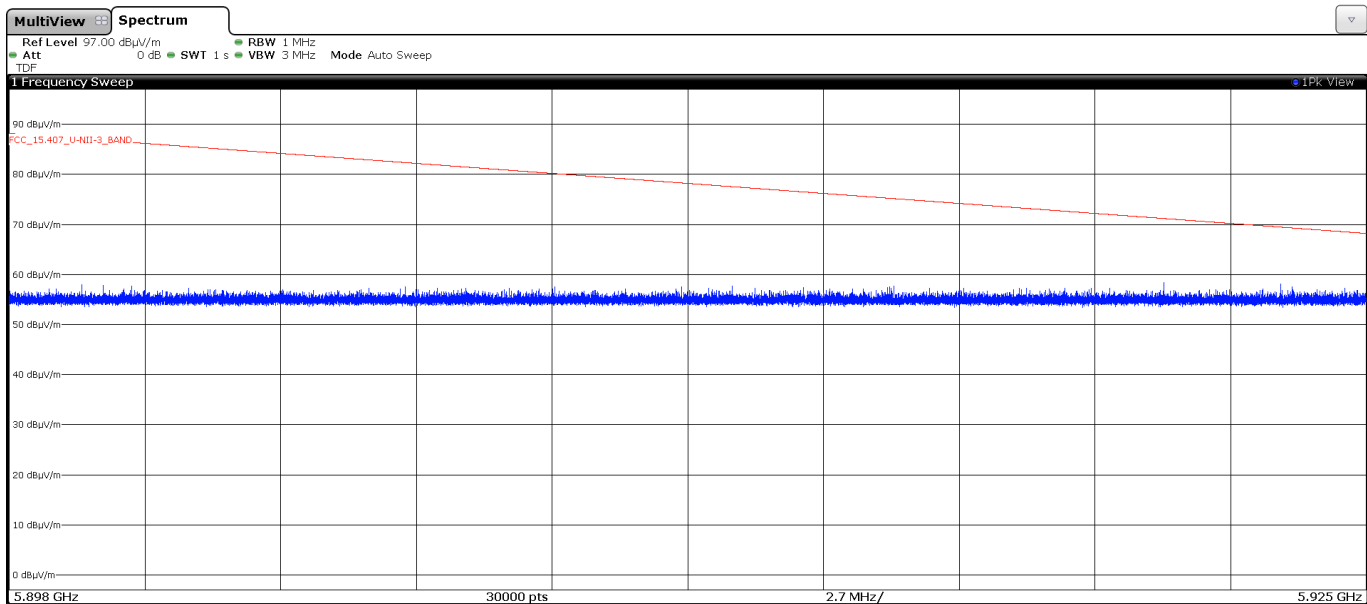


Radiated spurious emissions at band edges and inside adjacent band 5.898 – 5.925 GHz

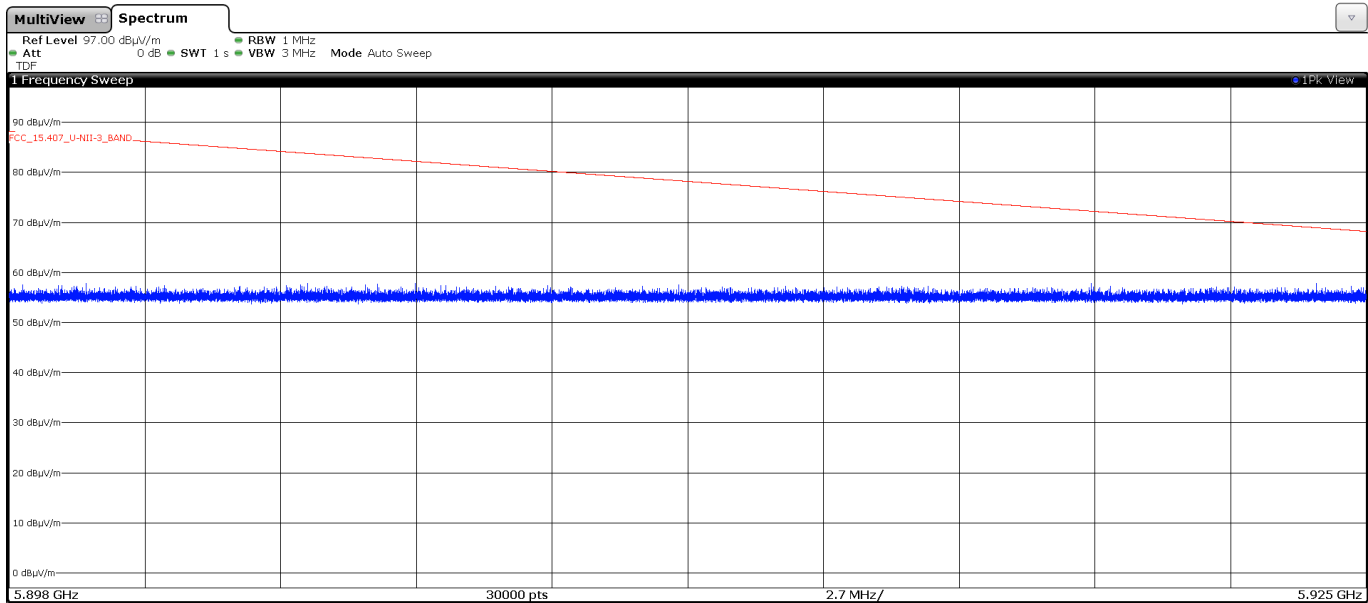
- Low Channel 149 (5745 MHz):



- Middle Channel 157 (5785 MHz):



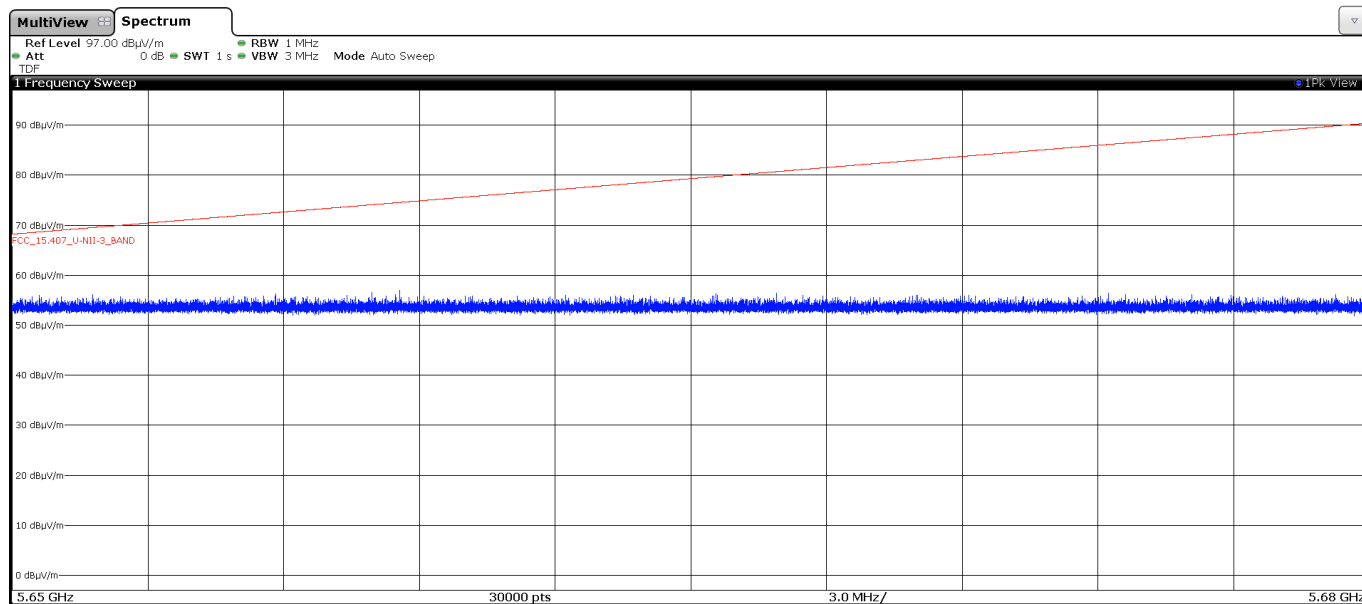
- High Channel 165 (5825 MHz):



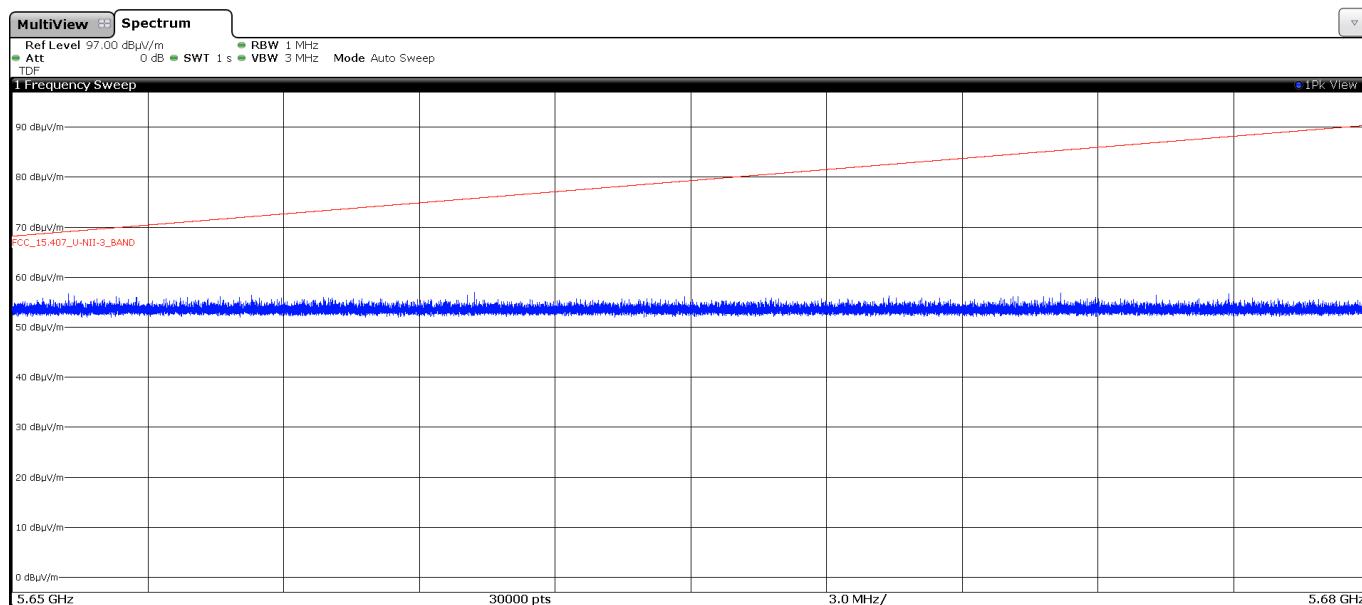
- **Mode 802.11 n40 (HT40)**

Radiated spurious emissions at band edges and inside adjacent band 5.65 – 5.68 GHz

- Low Channel 151 (5755 MHz):

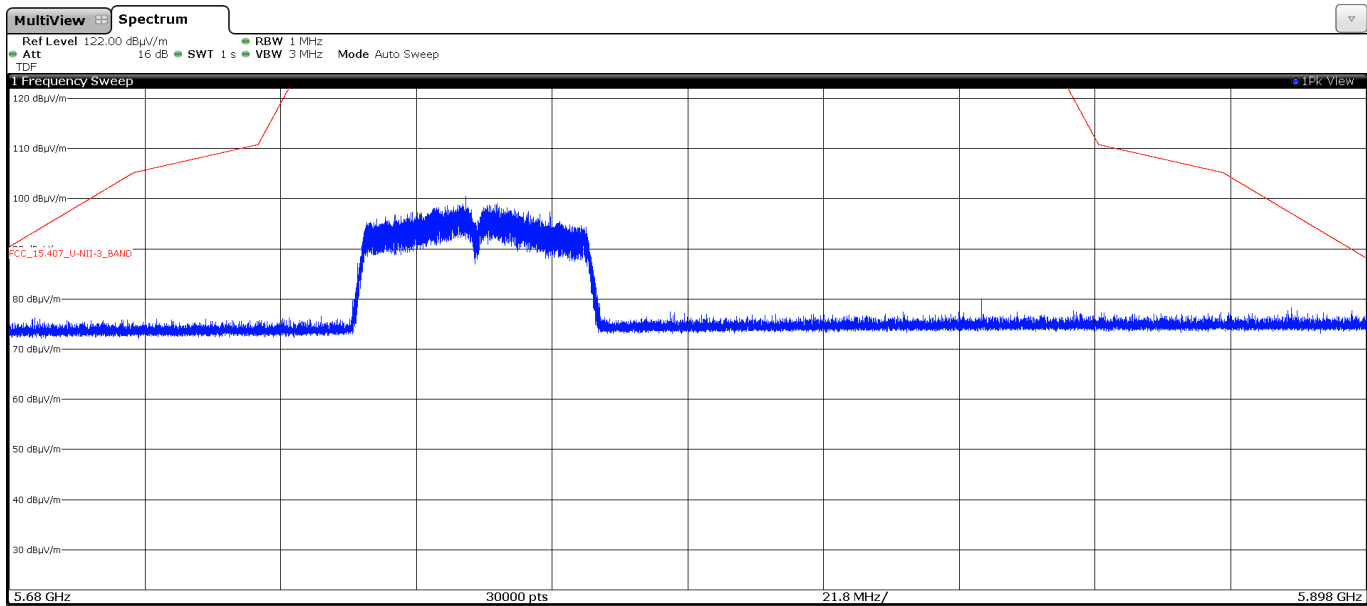


- High Channel 159 (5795 MHz):

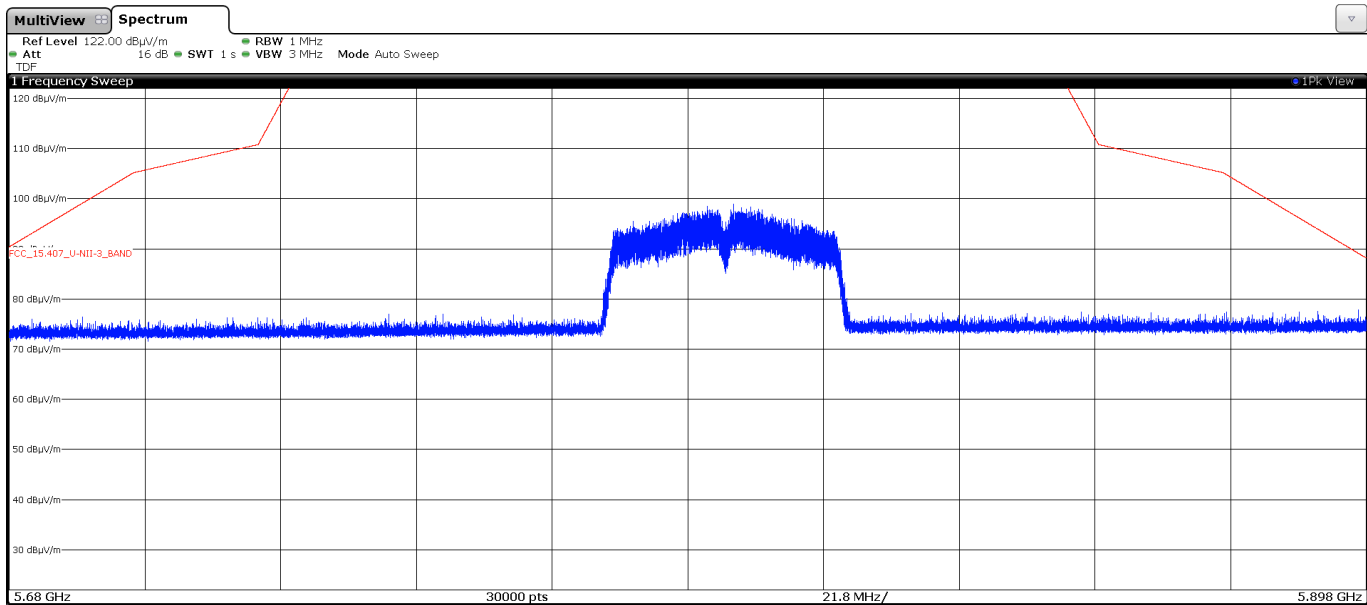


Radiated spurious emissions at band edges and inside adjacent band 5.68 – 5.898 GHz

- Low Channel 151 (5755 MHz):

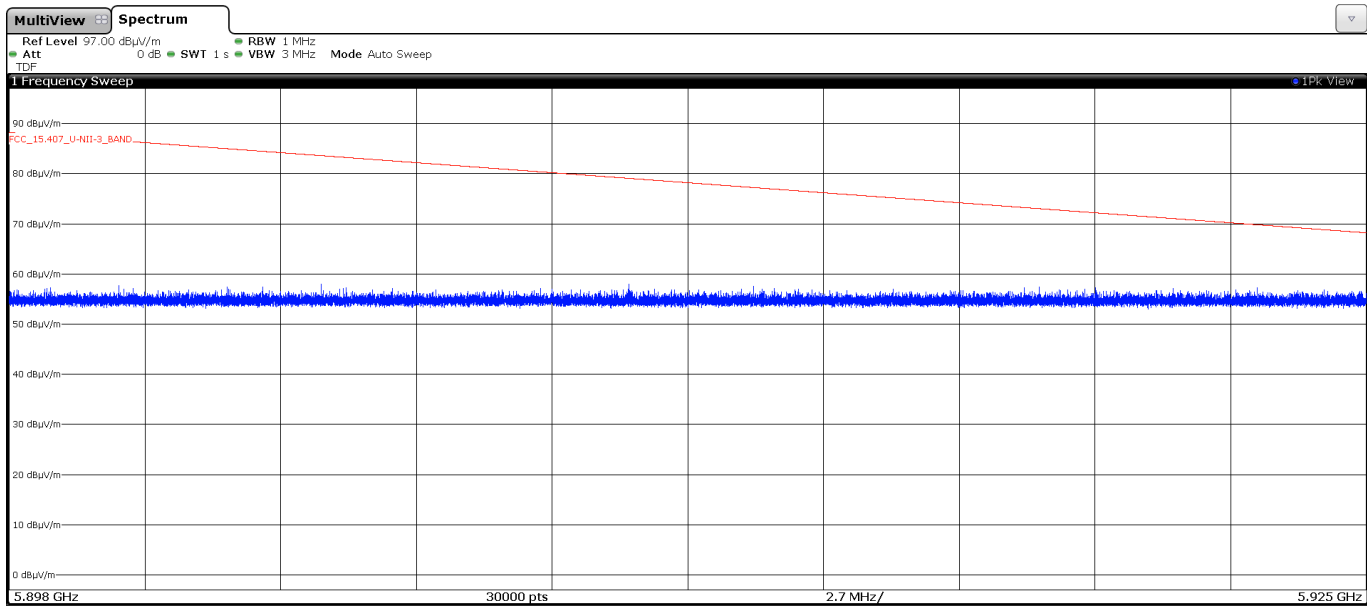


- High Channel 159 (5795 MHz):

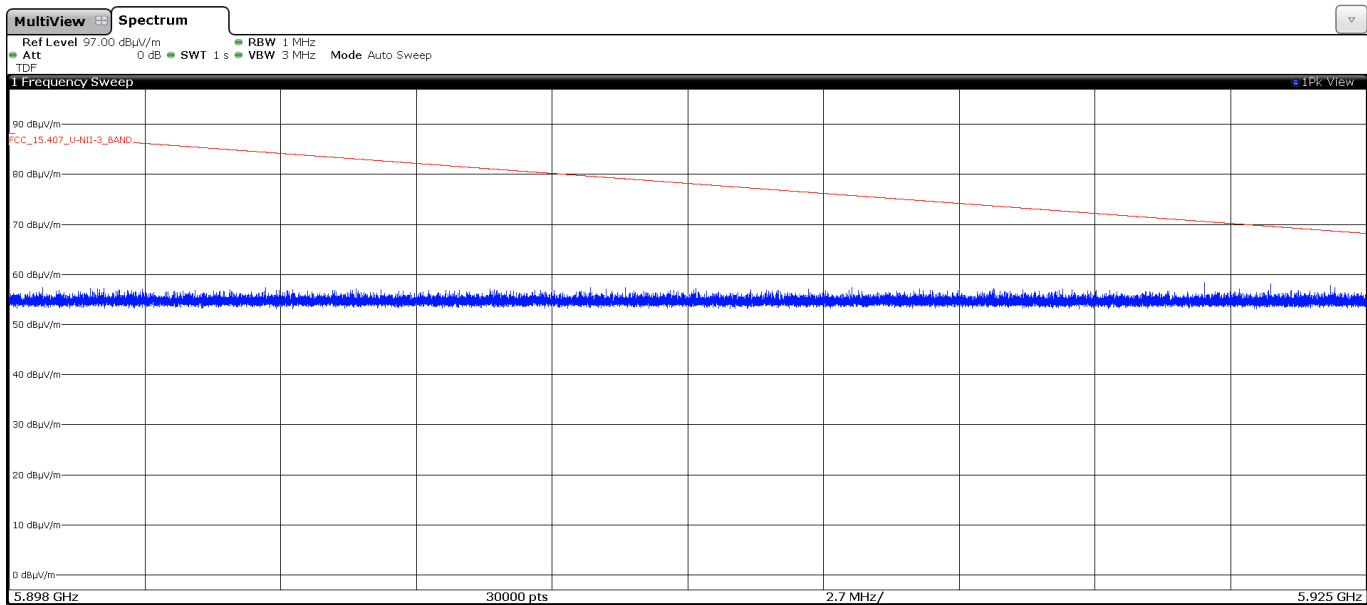


Radiated spurious emissions at band edges and inside adjacent band 5.898 – 5.925 GHz

- Low Channel 151 (5755 MHz):



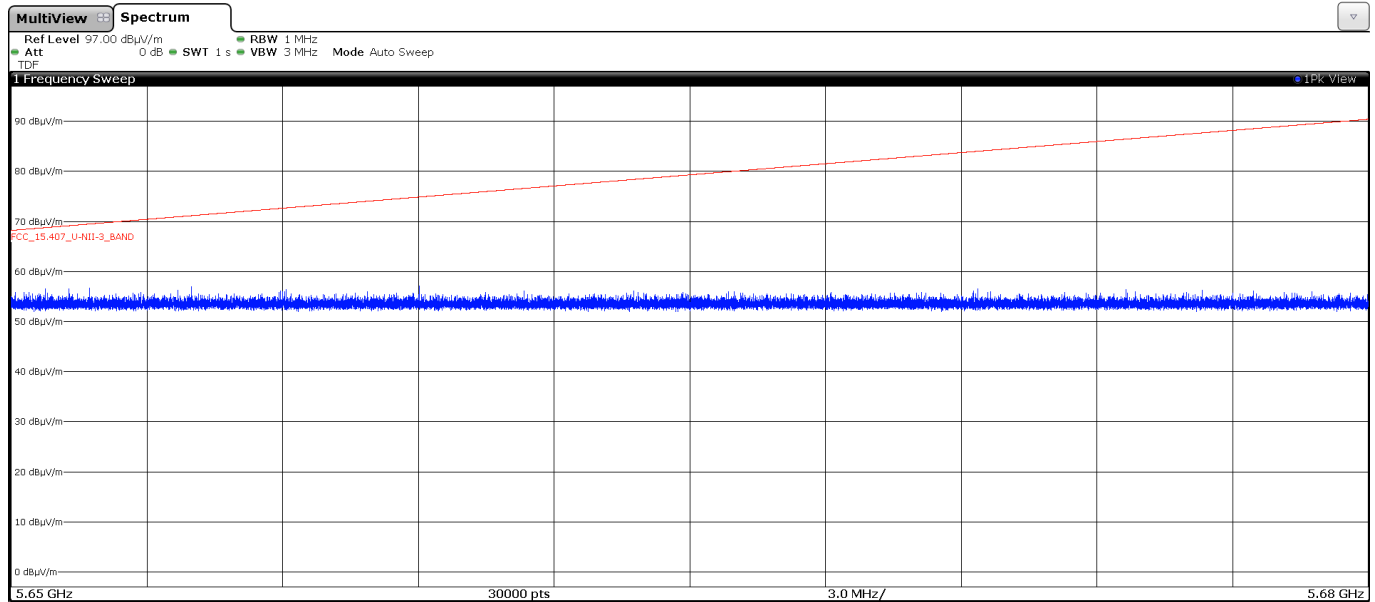
- High Channel 159 (5795 MHz):



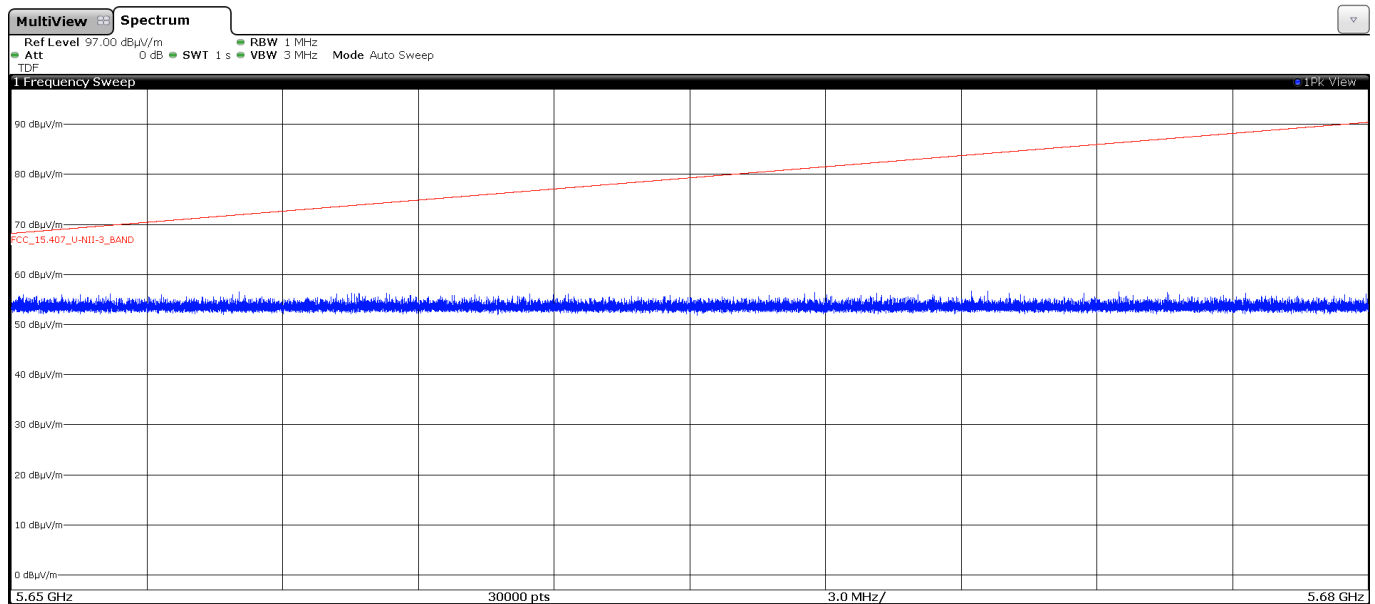
- **Mode 802.11 ac40**

Radiated spurious emissions at band edges and inside adjacent band 5.65 – 5.68 GHz

- Low Channel 151 (5755 MHz):

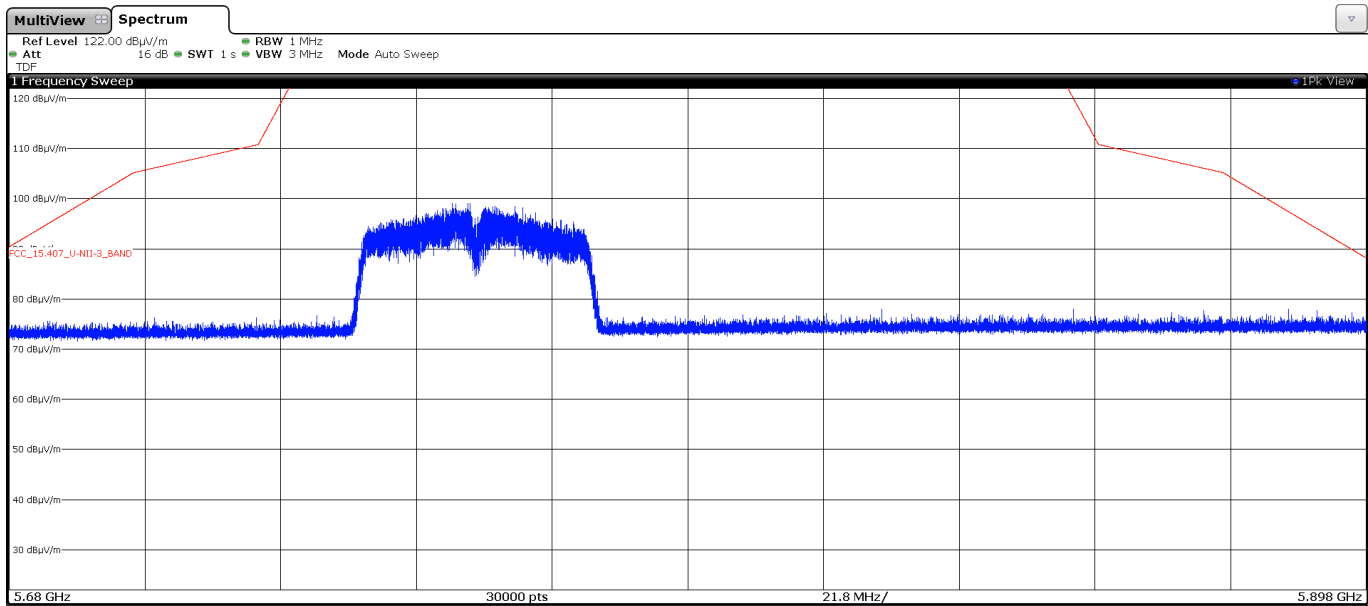


- High Channel 159 (5795 MHz):

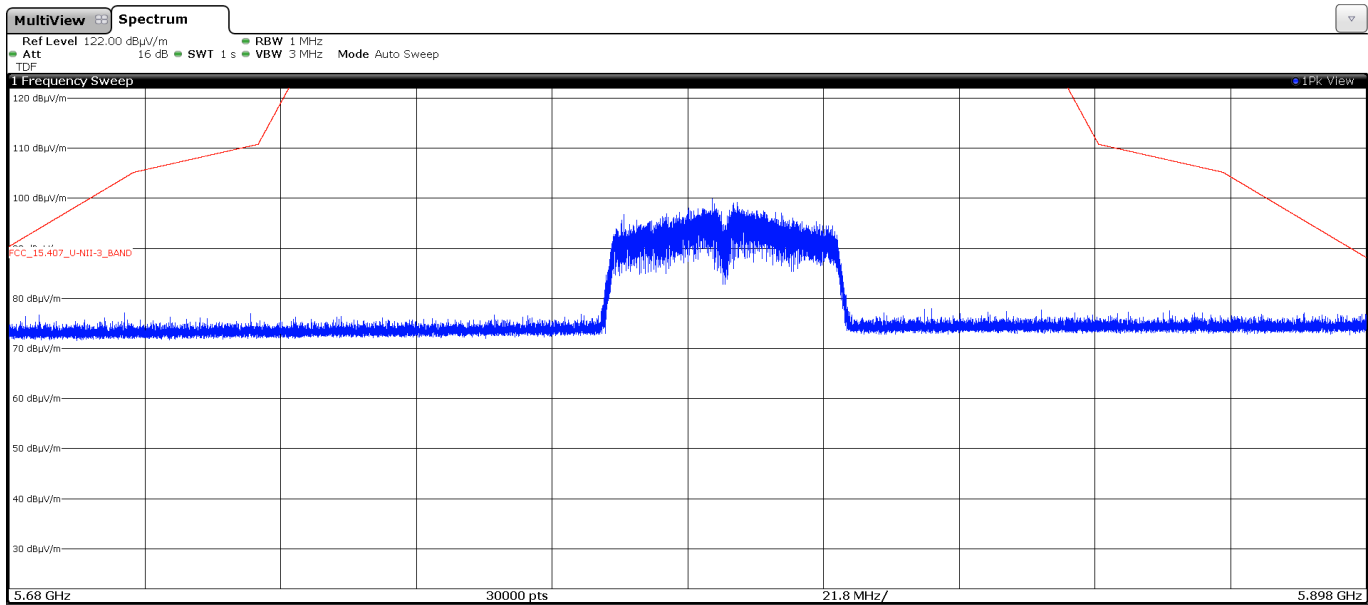


Radiated spurious emissions at band edges and inside adjacent band 5.68 – 5.898 GHz

- Low Channel 151 (5755 MHz):

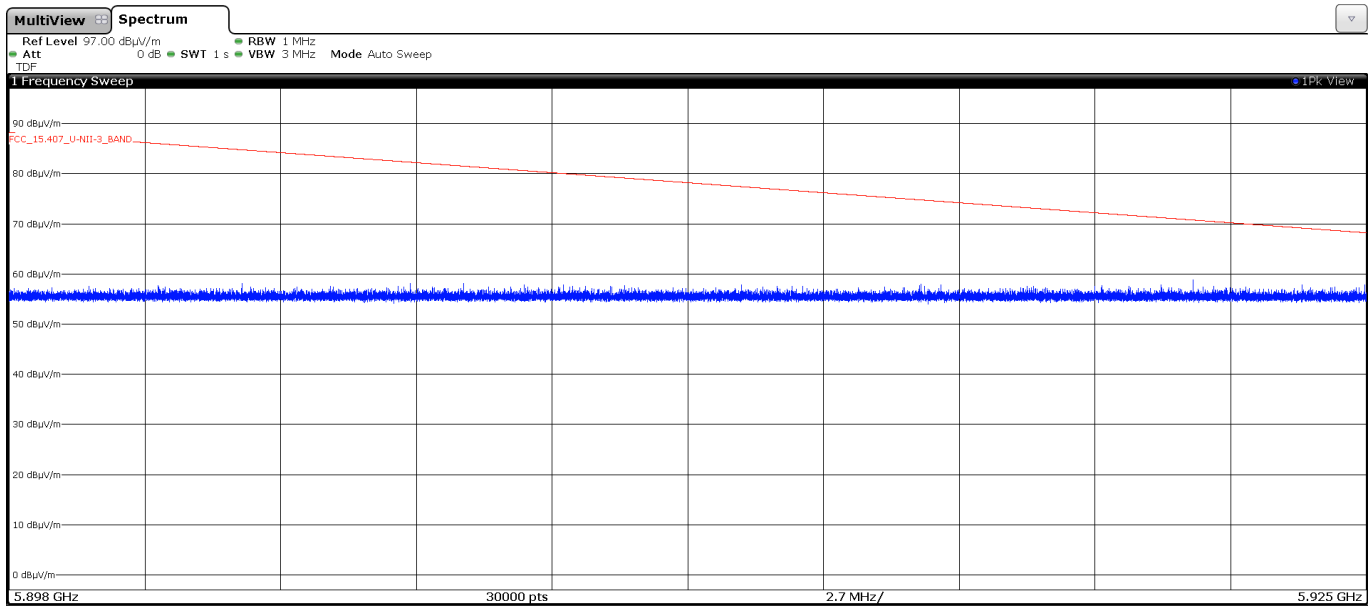


- High Channel 159 (5795 MHz):

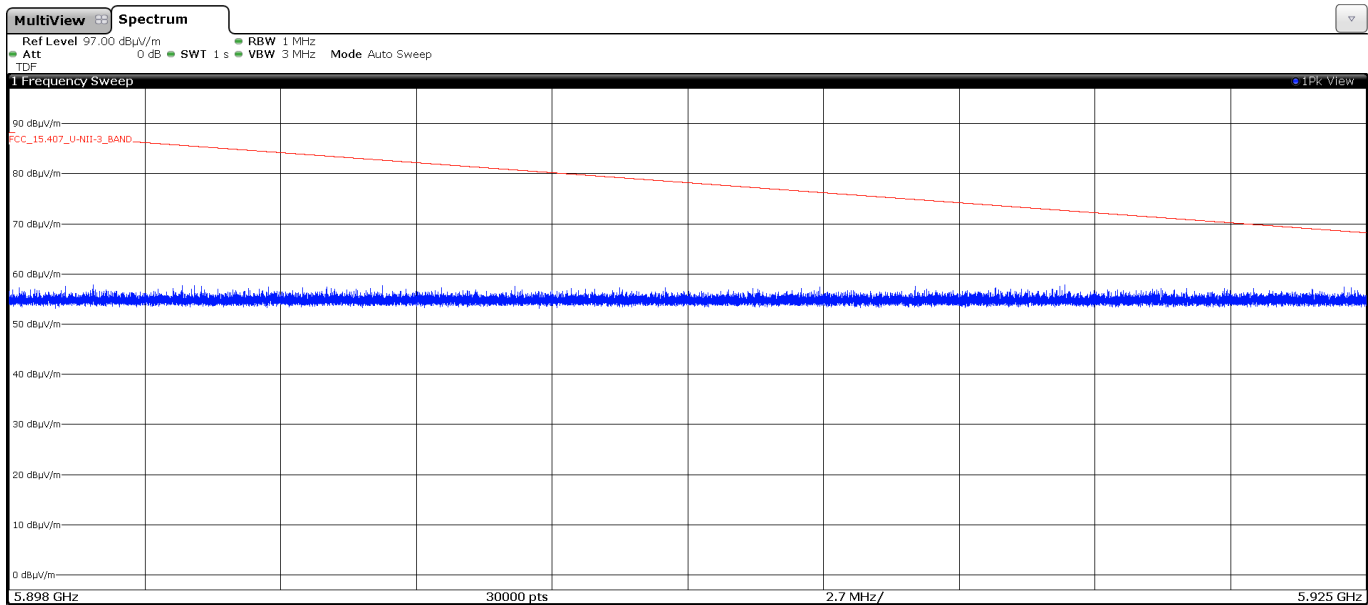


Radiated spurious emissions at band edges and inside adjacent band 5.898 – 5.925 GHz

- Low Channel 151 (5755 MHz):



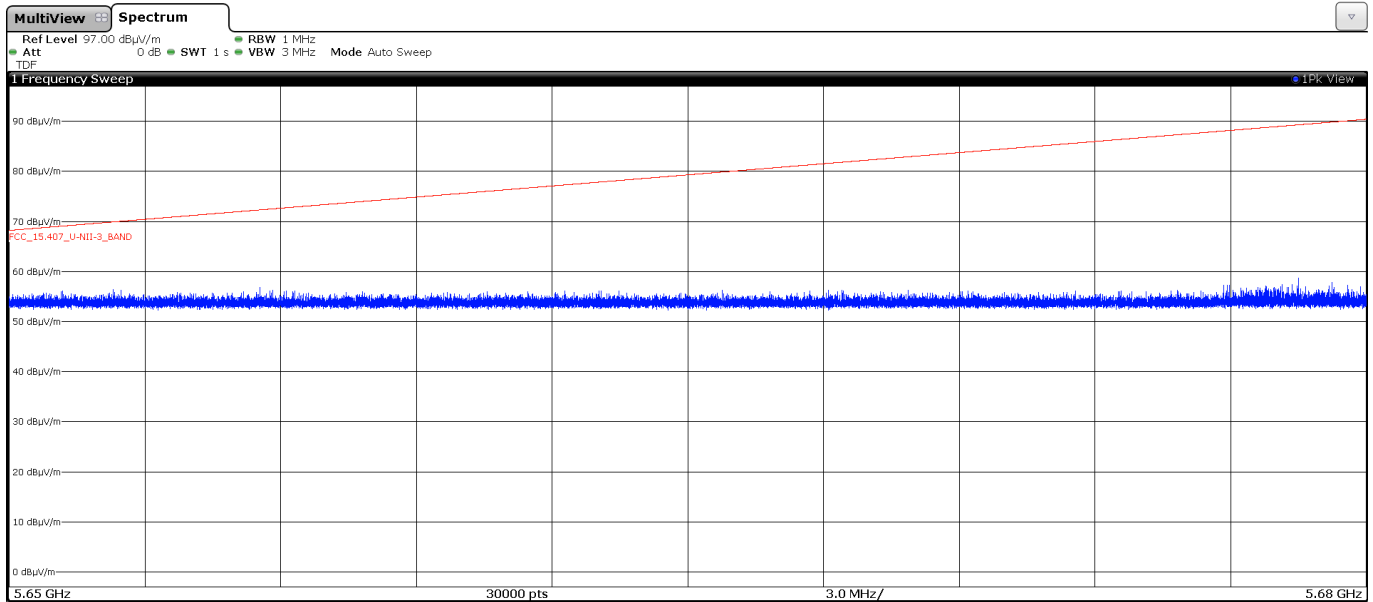
- High Channel 159 (5795 MHz):



- **Mode 802.11 ac80 (VHT80)**

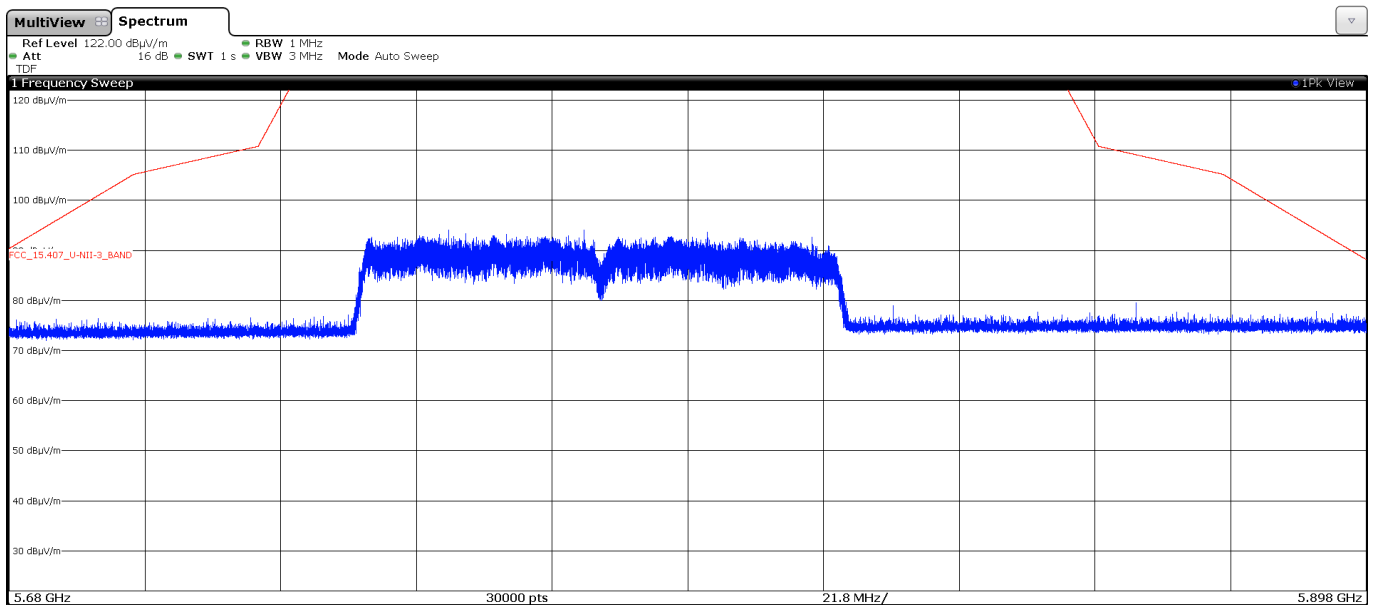
Radiated spurious emissions at band edges and inside adjacent band 5.65 – 5.68 GHz

- Middle Channel 155 (5775 MHz):



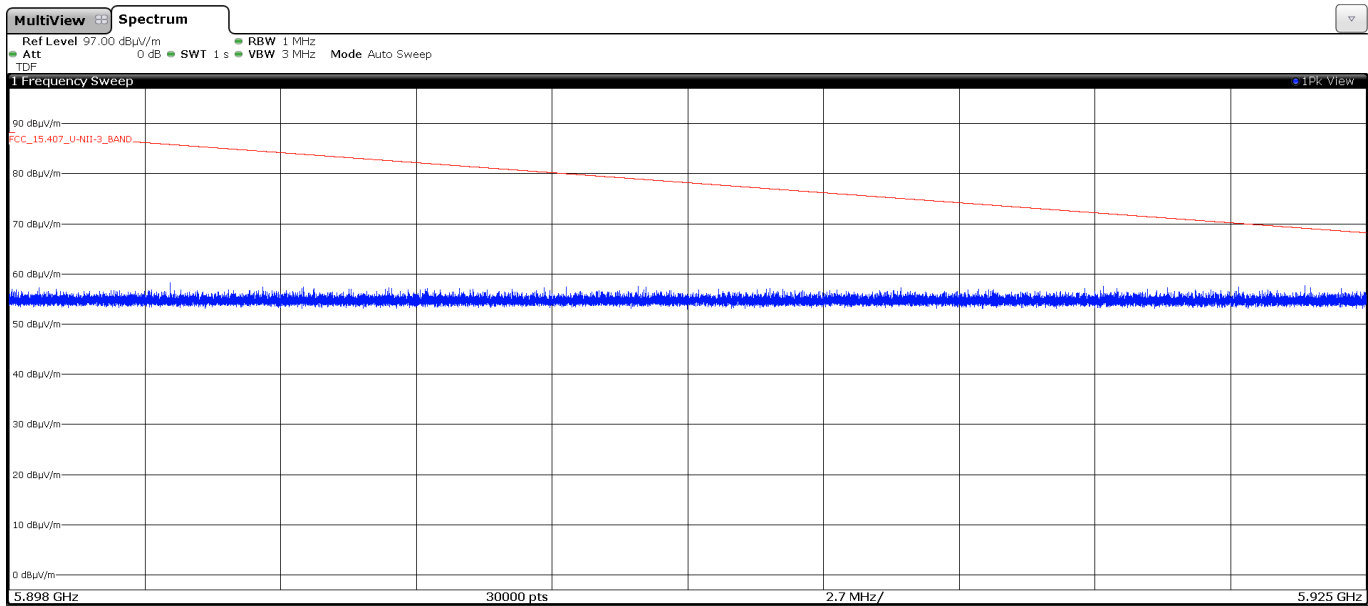
Radiated spurious emissions at band edges and inside adjacent band 5.68 – 5.898 GHz

- Middle Channel 155 (5775 MHz):



Radiated spurious emissions at band edges and inside adjacent band 5.898 – 5.925 GHz

- Middle Channel 155 (5775 MHz):



MIMO – CORE-MIMO_Port4 & Port1 Antennas:

Frequency range 30 MHz - 1 GHz

The spurious emissions below 1 GHz do not depend on either the operating channel or the modulation mode selected in the EUT.

Spurious frequencies operating (radiated) detected at less than 20 dB below the limit:

Spurious frequency (MHz)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Polarization	Detector	Measurement Uncertainty (dB)
250.012	26.4	46	H	Quasi-Peak	± 3.04
875.016	28.1	46	H	Quasi-Peak	± 3.04
958.468	28.6	46	H	Quasi-Peak	± 3.04

Frequency range 1 - 40 GHz

The results in the next tables show the maximum measured levels in the 1-40 GHz range including the 5.650 - 5.725 GHz and 5.850 - 5.925 GHz adjacent bands (see following plots).

Spurious frequencies with peak levels above the average limit (54 dB μ V/m at 3 m) are measured with an average detector for checking compliance with the average limit.

OUT OF BAND EMISSIONS: For outside emissions of the band 5.65 - 5.925 GHz only the OFDM worst mode case determined after preliminary measurements was tested in the Low, Middle and High Channels.

BAND EDGES EMISSIONS: For band edge emissions of the band 5.65 – 5.725 and 5.850 - 5.925 GHz all modes were tested in the Low Middle and High Channels.

- **Mode 802.11 n20** (worst mode case)

OUT OF BAND EMISSIONS. Spurious emissions out of the band 5.65 - 5.925 GHz:

- Low Channel:

Spurious frequency (GHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Polarization	Detector	Measurement Uncertainty (dB)
5.5942	51.43	68.23	H	Peak	± 2.72
7.50013	40.22	68.23	H	Peak	± 4.72
8.49623	48.91	68.23	V	Peak	± 4.72
12.50015	42.43	68.23	V	Peak	± 4.72
11.48558	57.21	74	H	Peak	± 4.72
	47.36	54		Peak	± 4.72
17.23295	51.86	68.23	V	Peak	± 4.72

- Middle Channel:

Spurious frequency (GHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Polarization	Detector	Measurement Uncertainty (dB)
5.63733	51.67	68.23	H	Peak	± 2.72
8.49028	46.29	68.23	V	Peak	± 4.72
10.63123	50.35	68.23	V	Peak	± 4.72
7.49978	39.27	68.23	H	Peak	± 4.72
11.56608	60.81	68.23	H	Peak	± 4.72
	47.54	54		Peak	± 4.72
17.35865	49.66	68.23	V	Peak	± 3.34

- High Channel:

Spurious frequency (GHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Polarization	Detector	Measurement Uncertainty (dB)
2.13071	51.75	68.23	V	Peak	± 2.72
5.67656	51.88	68.23	H	Peak	± 4.72
5.97576	52.26	68.23	H	Peak	± 4.72
8.50533	47	68.23	V	Peak	± 4.72
10.63403	51.78	68.23	V	Peak	± 4.72
7.50013	39.87	68.23	H	Peak	± 4.72
11.64973	60.04	68.23	H	Peak	± 4.72
	49.99	68.23		Peak	± 4.72
17.47145	52.47	68.23	V	Peak	± 3.34

Verdict: PASS

BAND EDGES EMISSIONS. Spurious band edge emissions of the band 5.65 – 5.725 and 5.850 - 5.925 GHz:

- Low Channel 149 (5745 MHz): Inside band 5.65-5.68 GHz.

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

- Middle Channel 157 (5785 MHz): Inside band 5.898-5.925 GHz.

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

- High Channel 165 (5825 MHz): Inside band 5.898-5.925 GHz.

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

• **Mode 802.11 n20 (HT20)**

BAND EDGES EMISSIONS. Spurious band edge emissions of the band 5.65 - 5.925 GHz:

- Low Channel 149 (5745 MHz): Inside band 5.65-5.68 GHz.

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

- Middle Channel 157 (5785 MHz): Inside band 5.898-5.925 GHz.

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

- High Channel 165 (5825 MHz): Inside band 5.898-5.925 GHz.

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

• **Mode 802.11 ac20 (VHT20)**

BAND EDGES EMISSIONS. Spurious band edge emissions of the band 5.65 - 5.925 GHz:

- Low Channel 149 (5745 MHz): Inside band 5.65-5.68 GHz.

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

- Middle Channel 157 (5785 MHz): Inside band 5.898-5.925 GHz.

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

- High Channel 165 (5825 MHz): Inside band 5.898-5.925 GHz.

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

- **Mode 802.11 n40 (HT40)**

BAND EDGES EMISSIONS. Spurious band edge emissions of the band 5.65 - 5.925 GHz:

- Low Channel 151 (5755 MHz): Inside band 5.65-5.68 GHz.

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

- High Channel 159 (5795 MHz): Inside band 5.898-5.925 GHz.

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

- **Mode 802.11 ac40 (VHT40)**

BAND EDGES EMISSIONS. Spurious band edge emissions of the band 5.65 - 5.925 GHz:

- Low Channel 151 (5755 MHz): Inside band 5.65-5.68 GHz.

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

- High Channel 159 (5795 MHz): Inside band 5.898-5.925 GHz.

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

- **Mode 802.11 ac80 (VHT80)**

BAND EDGES EMISSIONS. Spurious band edge emissions of the band 5.65 - 5.925 GHz:

- Single Channel 155 (5775 MHz): Inside band 5.65-5.68 GHz and 5.898-5.925 GHz.

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

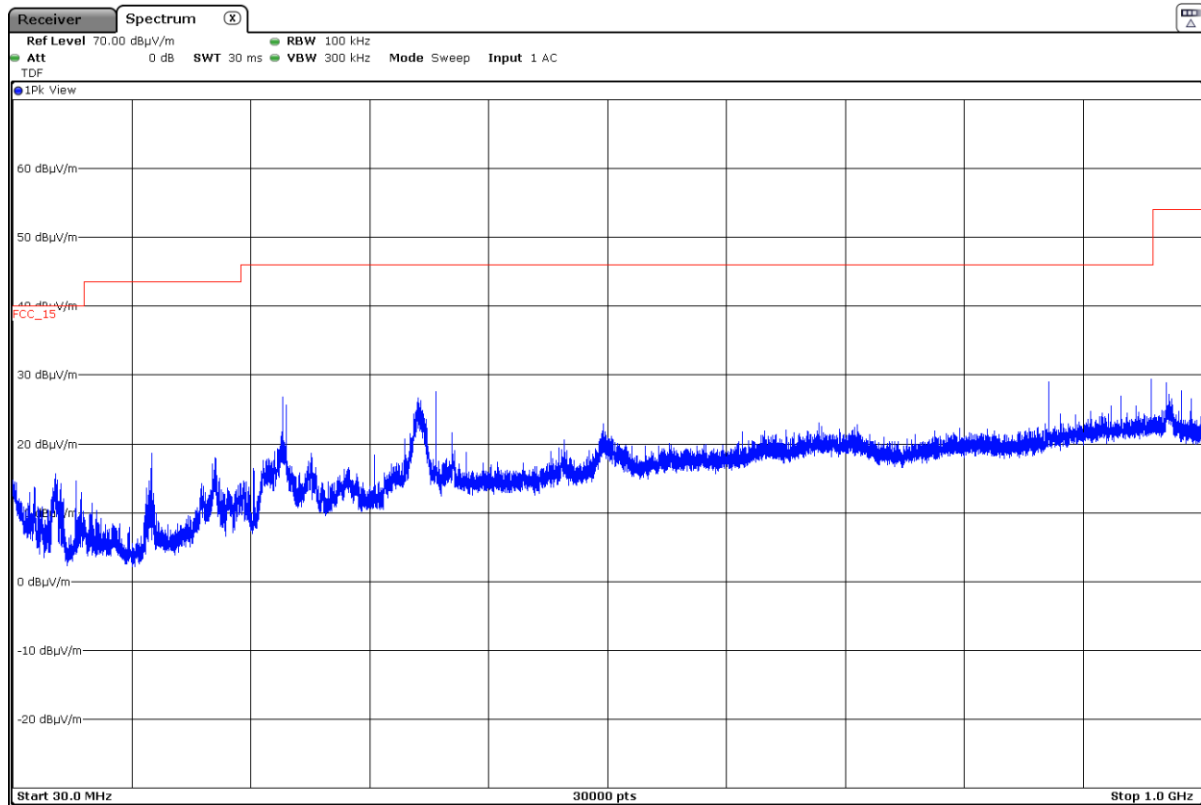
Verdict: PASS

MIMO – CORE-MIMO_Port4 & Port1 Antenna:

OUT OF BAND EMISSIONS

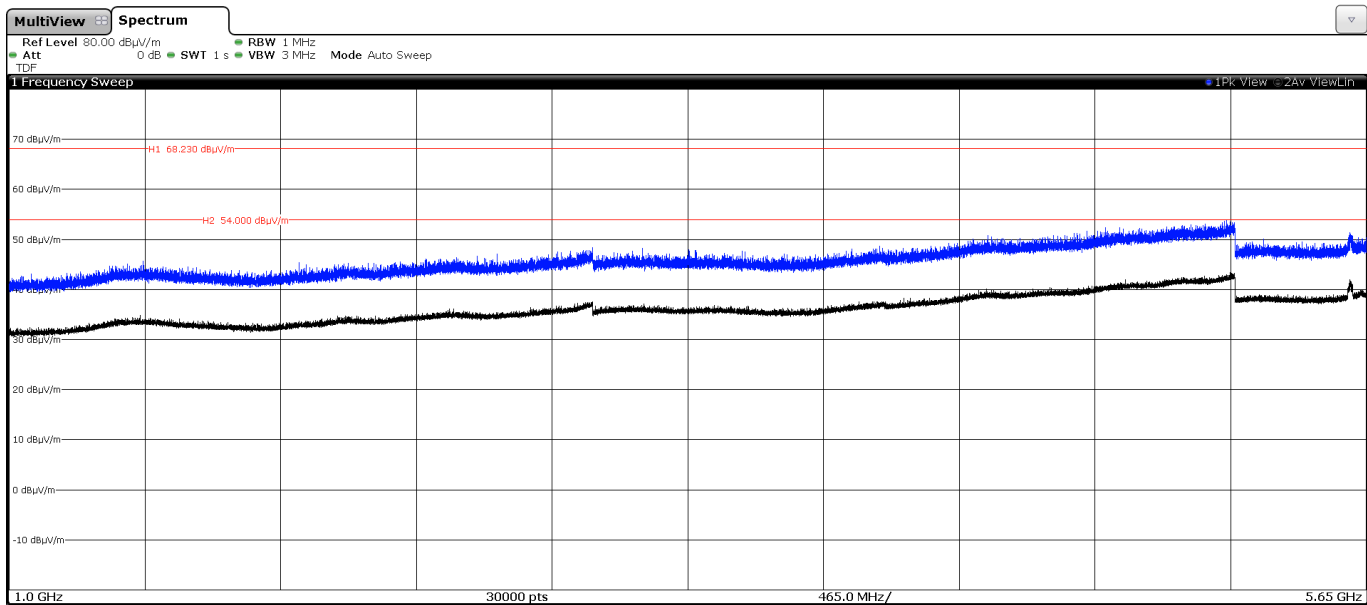
FREQUENCY RANGE 30 MHz - 1 GHz

This plot is valid for the Low, Middle and High Channels and all the modulation modes.

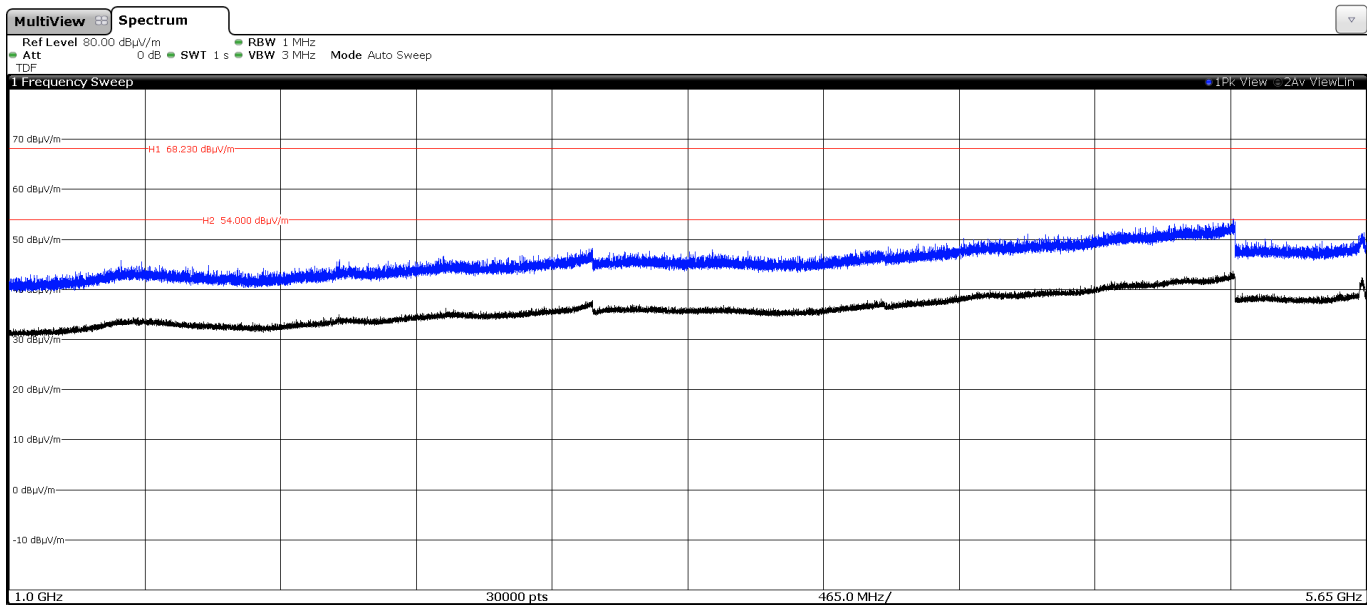


FREQUENCY RANGE 1 – 5.65 GHz (worst mode)

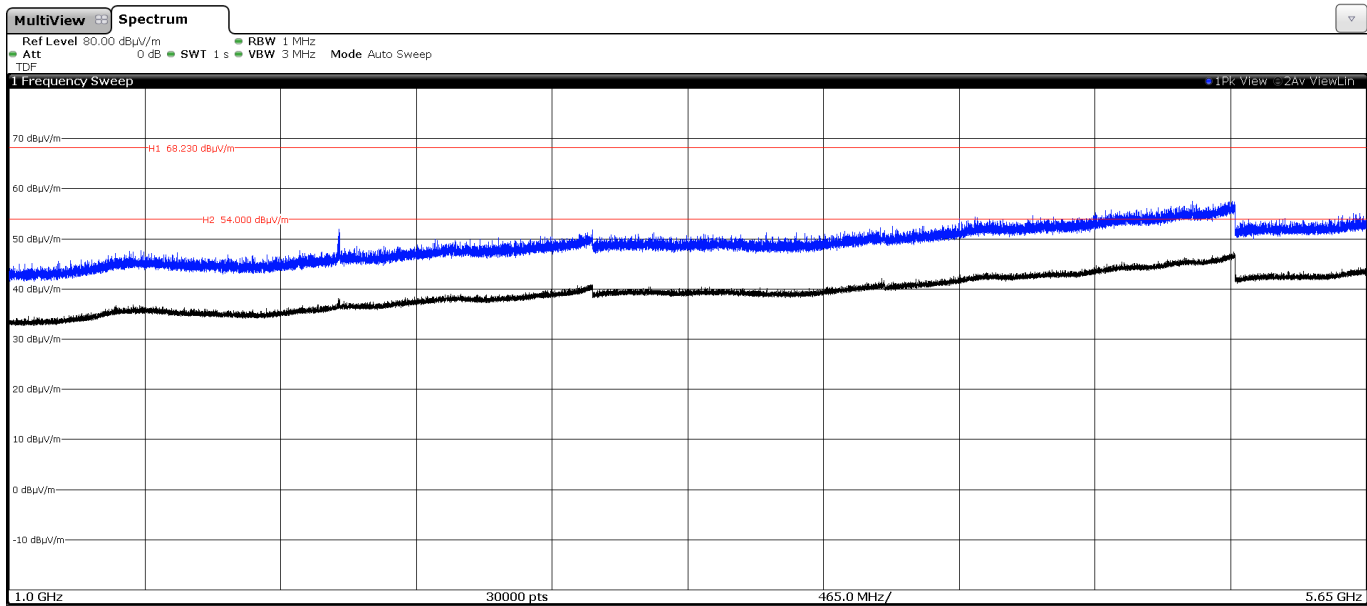
- Low Channel:



- Middle Channel:

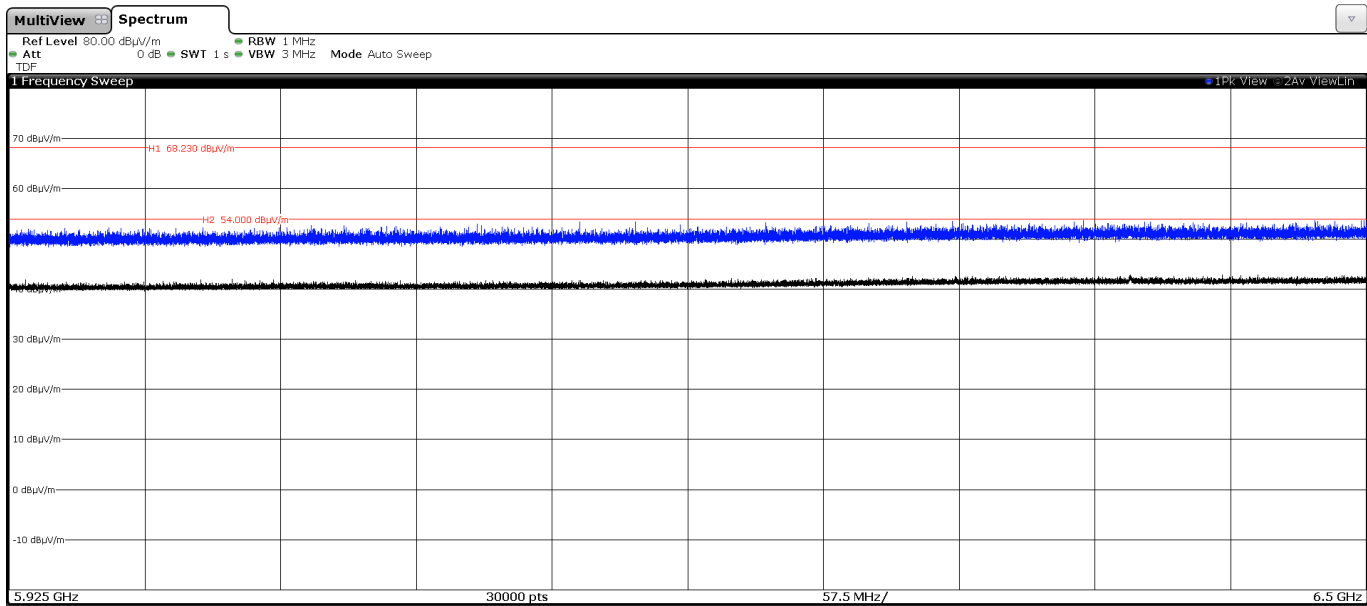


- High Channel:

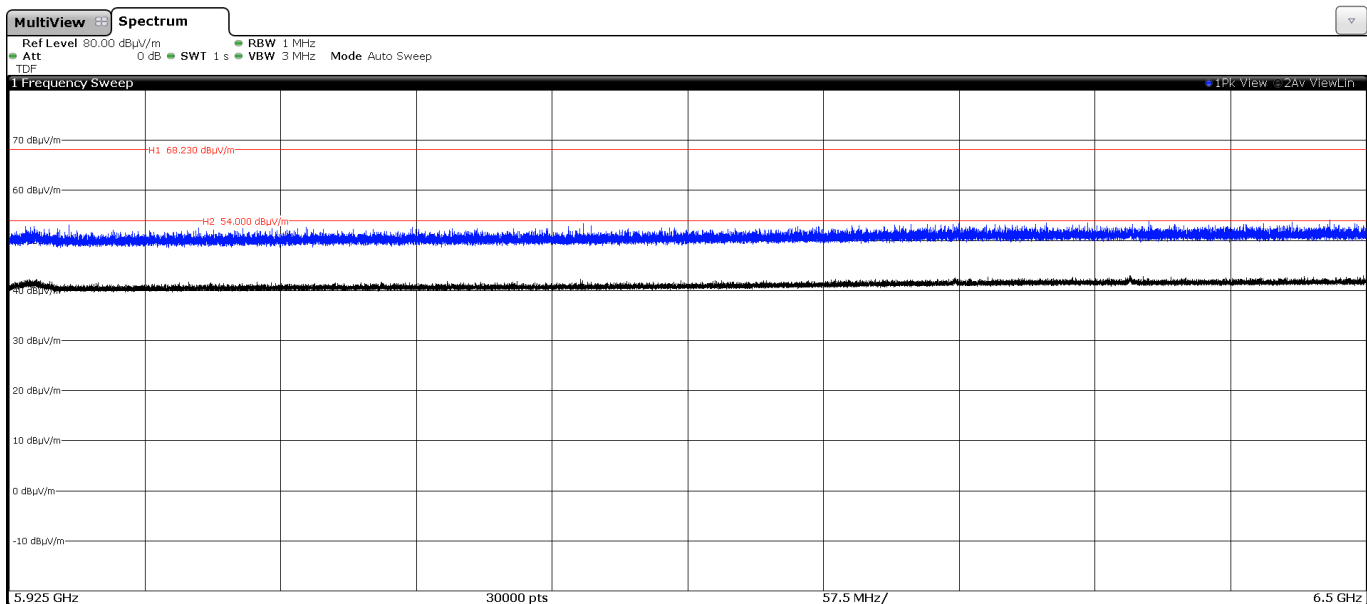


FREQUENCY RANGE 5.925 – 6.5 GHz (worst mode)

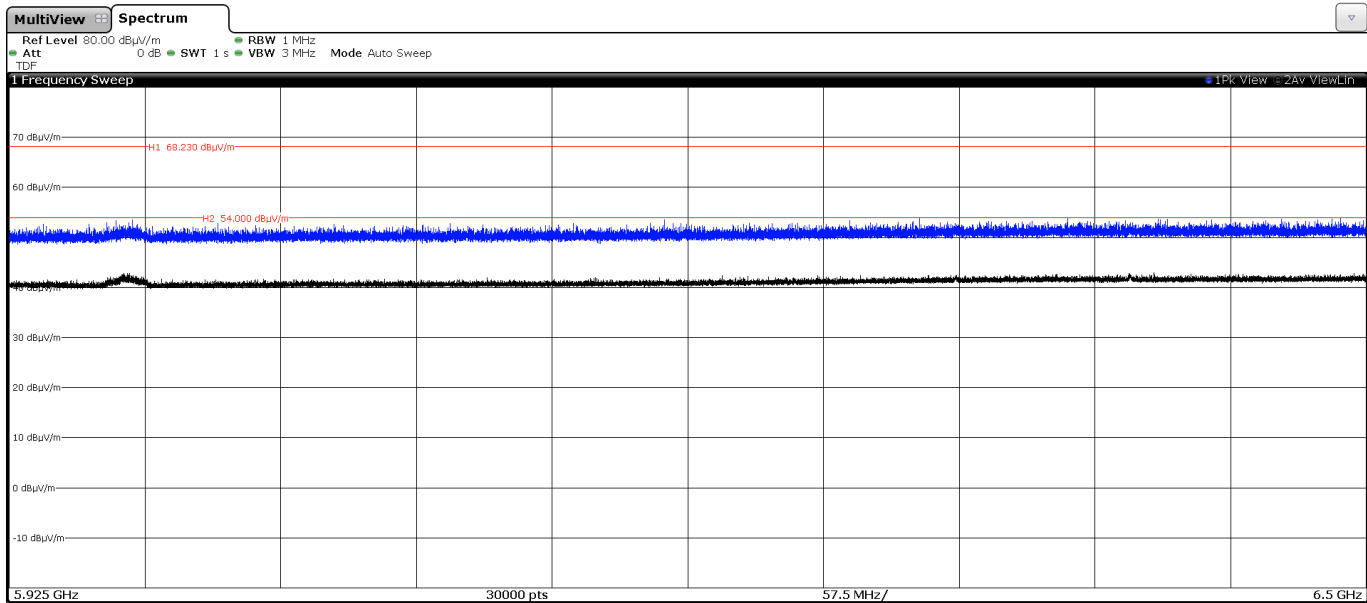
- Low Channel:



- Middle Channel:

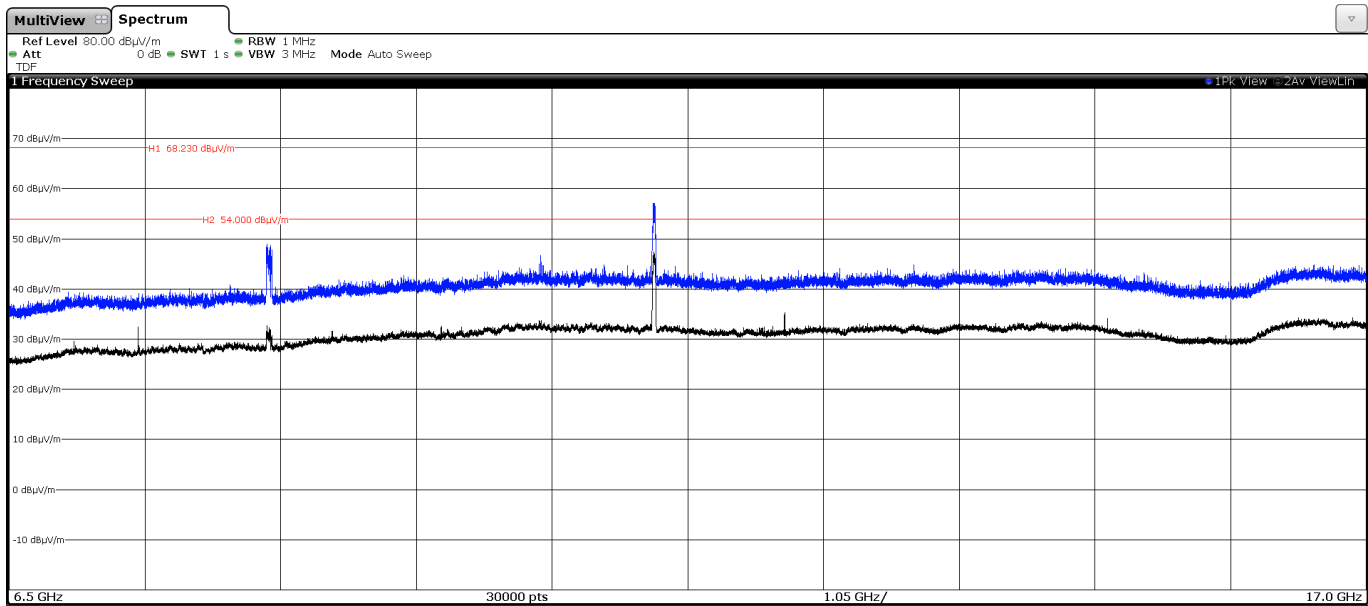


- High Channel:

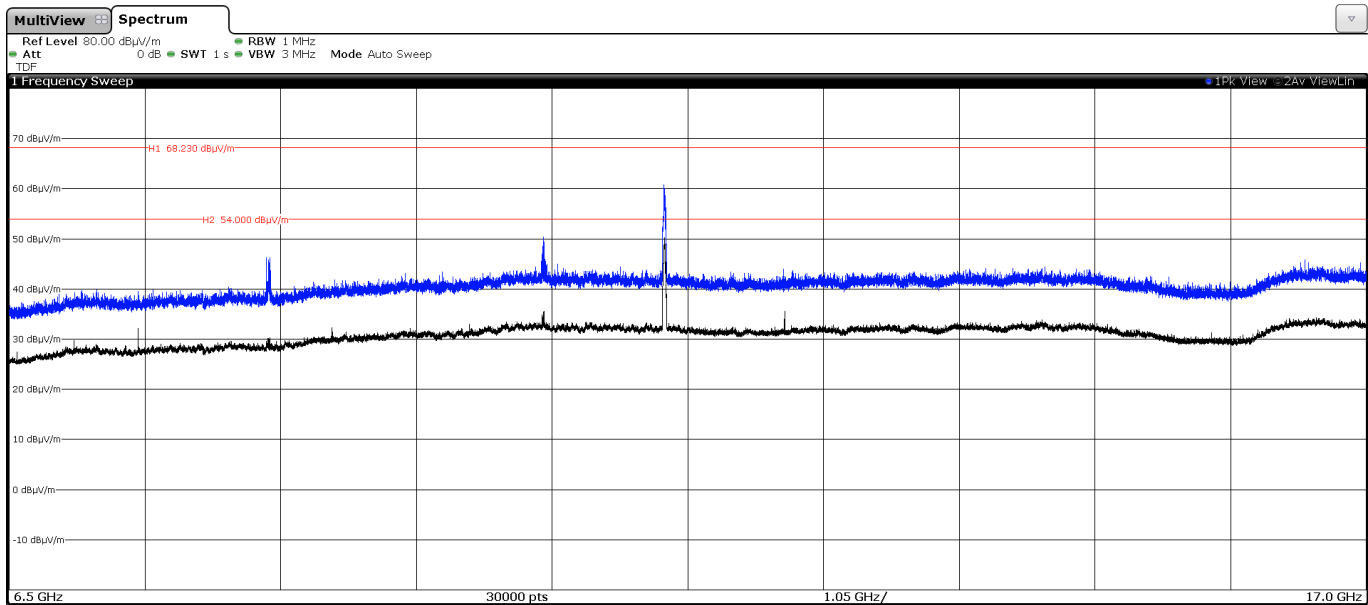


FREQUENCY RANGE 6.5 - 17 GHz. (worst mode)

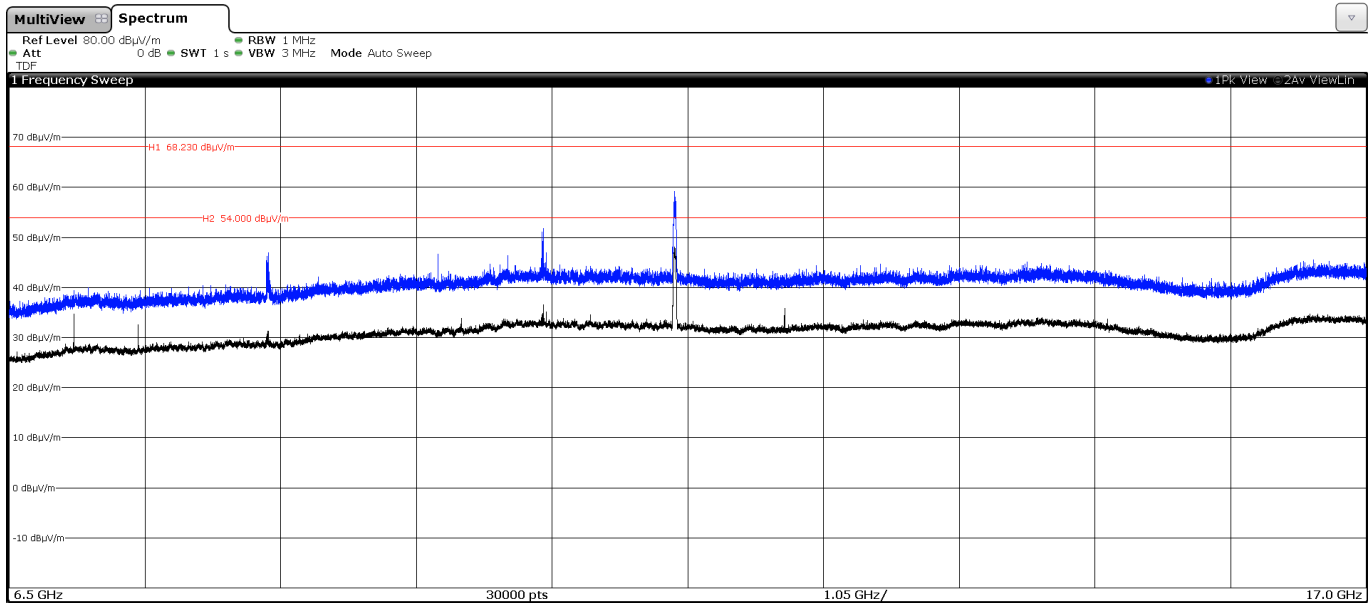
- Low Channel:



- Middle Channel:

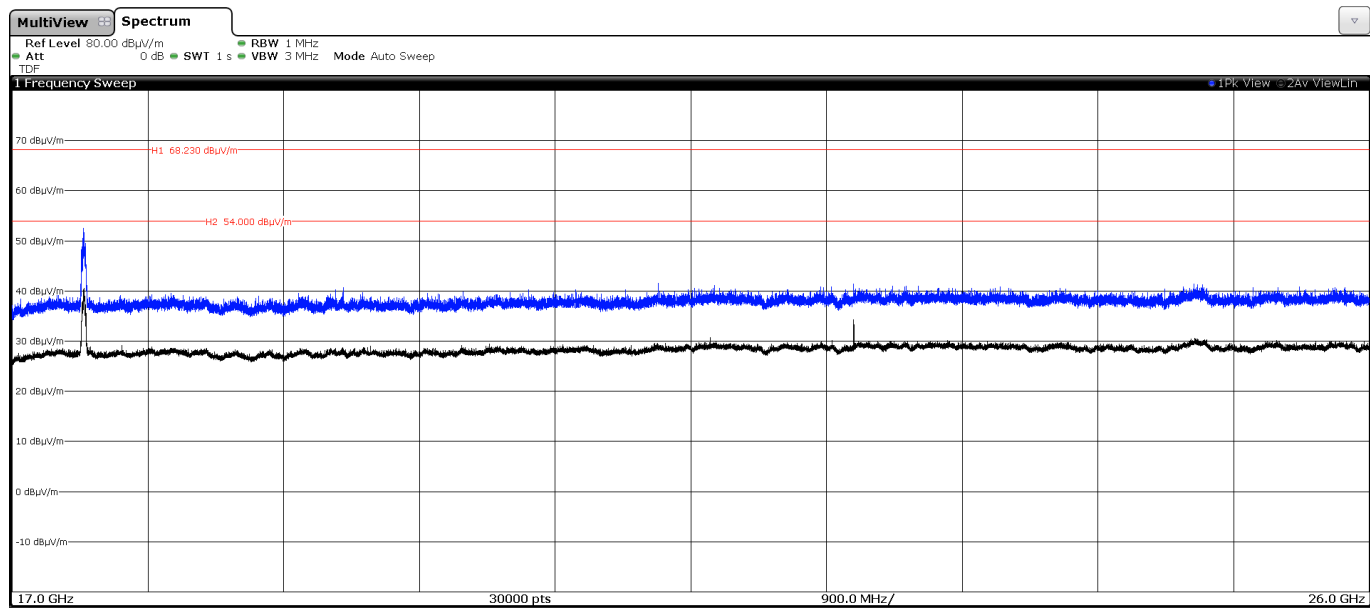


- High Channel:



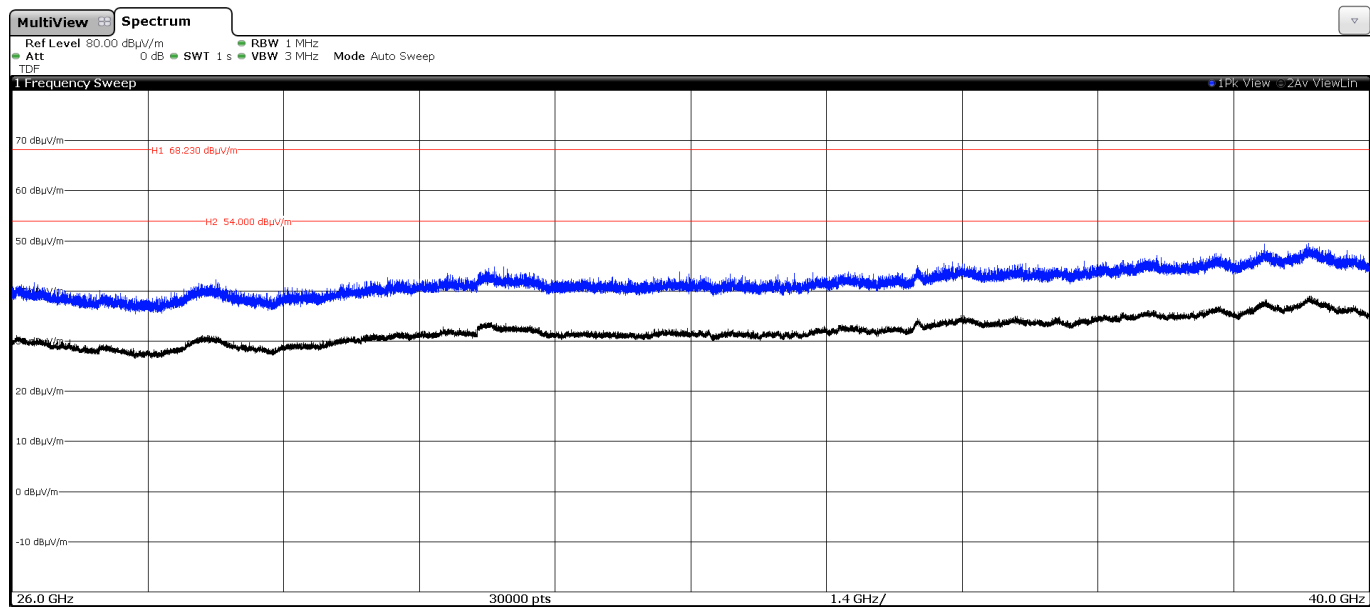
FREQUENCY RANGE 17 - 26 GHz

This plot is valid for the Low, Middle and High Channels and all the modulation modes.



FREQUENCY RANGE 26 - 40 GHz

This plot is valid for the Low, Middle and High Channels and all the modulation modes.



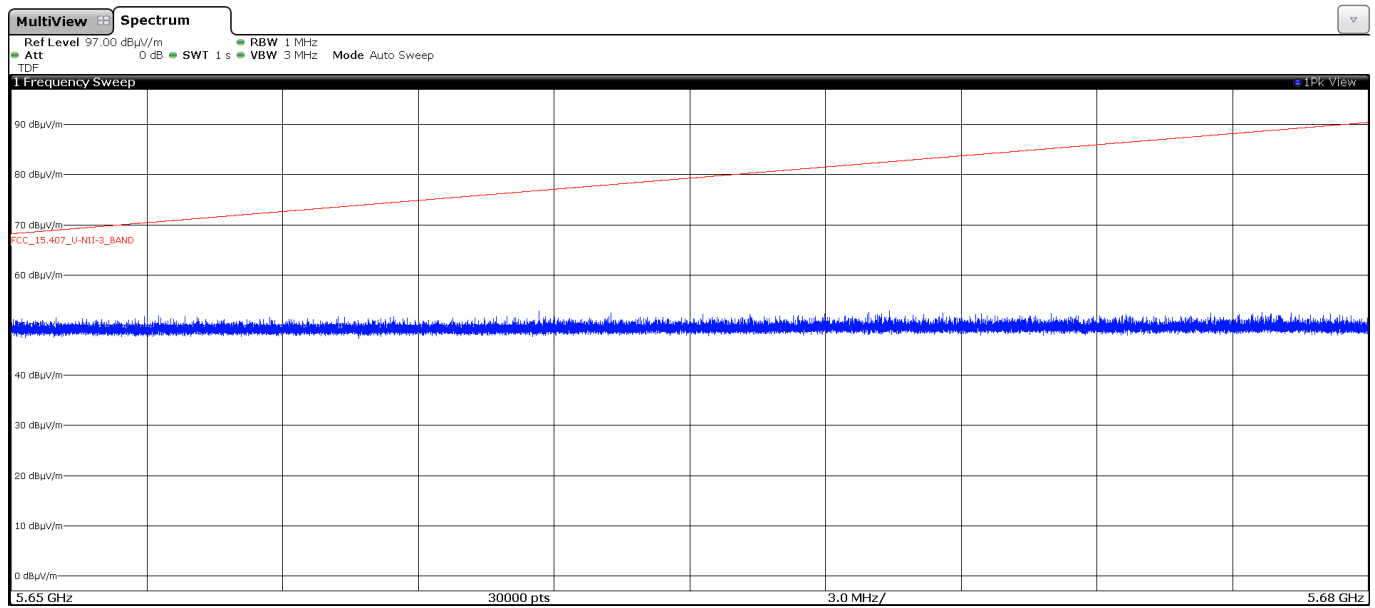
MIMO – CORE-MIMO_Port4 & Port1 Antennas:

BAND EDGES EMISSIONS

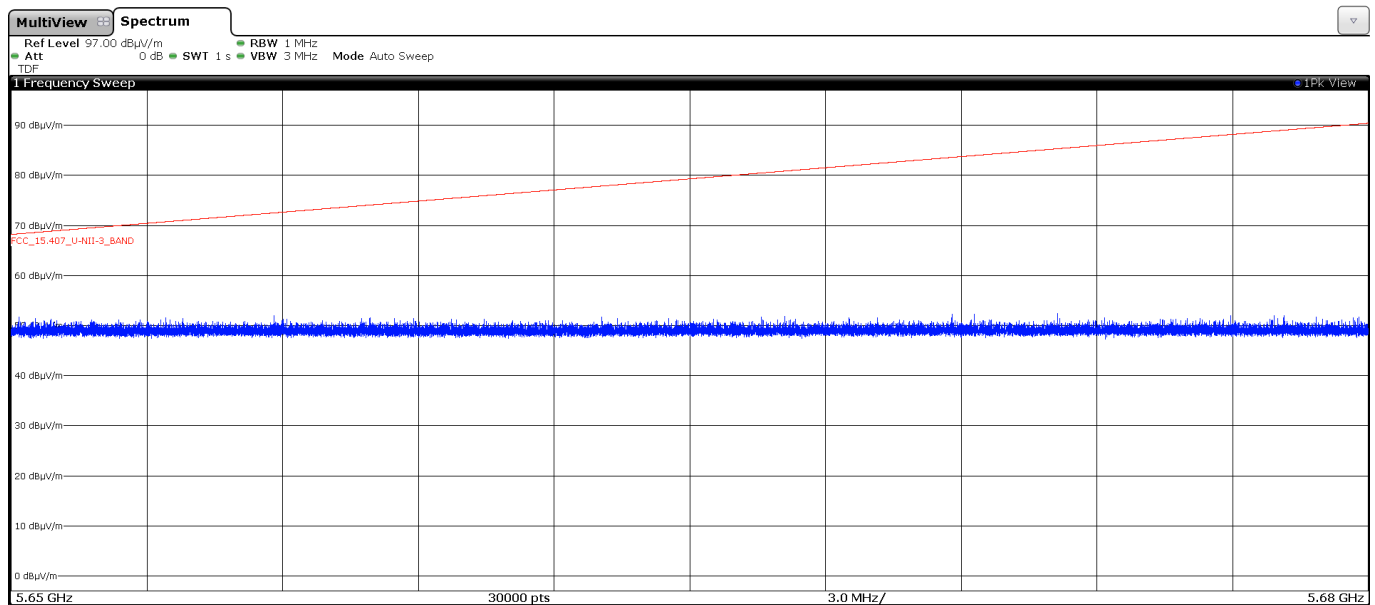
- Mode 802.11 n20 (HT20)

Radiated spurious emissions at band edges and inside adjacent band 5.65 – 5.68 GHz

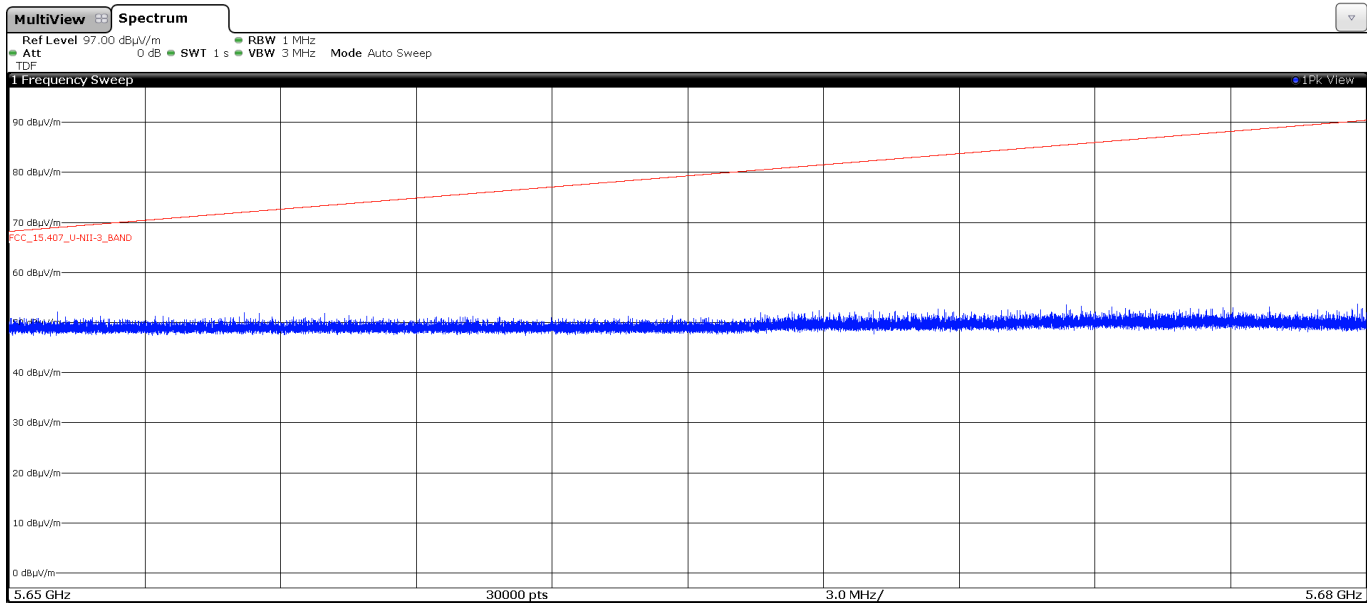
- Low Channel 149 (5745 MHz):



- Middle Channel 157 (5785 MHz):

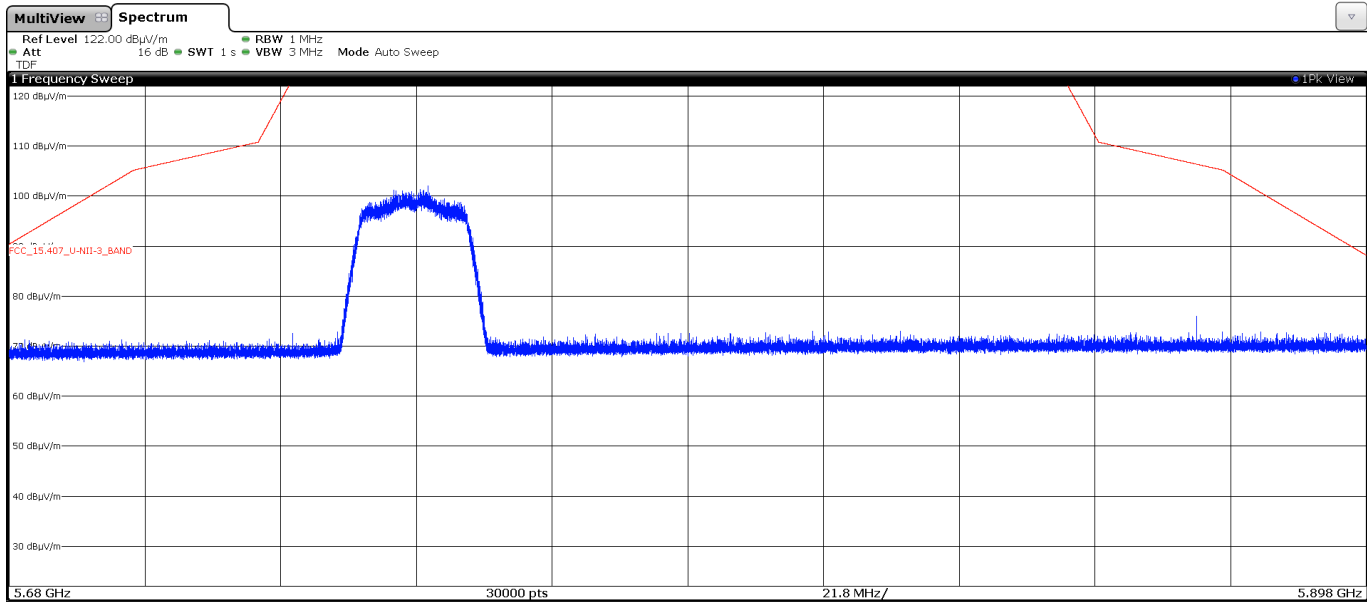


- High Channel 165 (5825 MHz):



Radiated spurious emissions at band edges and inside adjacent band 5.68 – 5.898 GHz

- Low Channel 149 (5745 MHz):



The screenshot shows a Spectrum Analyzer interface with the following details:

- Top Bar:**
 - Left: **MultiView** and **Spectrum** tabs.
 - Center: **Ref Level 122.00 dBμV/m**, **RBW 1 MHz**, **VBW 3 MHz**, **Mode Auto Sweep**.
 - Right: **16 dB**, **SWT 1 s**, **TDF**.
- Main Plot:**
 - Title: **1 Frequency Sweep**.
 - Y-axis: **dBμV/m**, ranging from 30 to 120.
 - X-axis: **Frequency Sweep**, ranging from 5.68 GHz to 5.898 GHz.
 - Signal: A blue trace showing a peak at approximately 21.8 MHz.
 - Noise Floor: A red line indicating the noise floor, which rises at the edges of the sweep.
 - Grid: A grid with major lines every 10 dBμV/m and minor lines every 2 dBμV/m.
- Bottom Bar:**
 - Left: **5.68 GHz**.
 - Center: **30000 pts**.
 - Right: **21.8 MHz/** and **5.898 GHz**.

MultiView Spectrum

Ref Level 122.00 dBuV/m

Att 16 dB RBW 1 MHz

SWT 1 s VBW 3 MHz Mode Auto Sweep

TDF

1 Frequency Sweep

120 dBuV/m

110 dBuV/m

100 dBuV/m

90 dBuV/m

80 dBuV/m

70 dBuV/m

60 dBuV/m

50 dBuV/m

40 dBuV/m

30 dBuV/m

FCC_15.407_U-NII-3_BAND

5.68 GHz

30000 pts

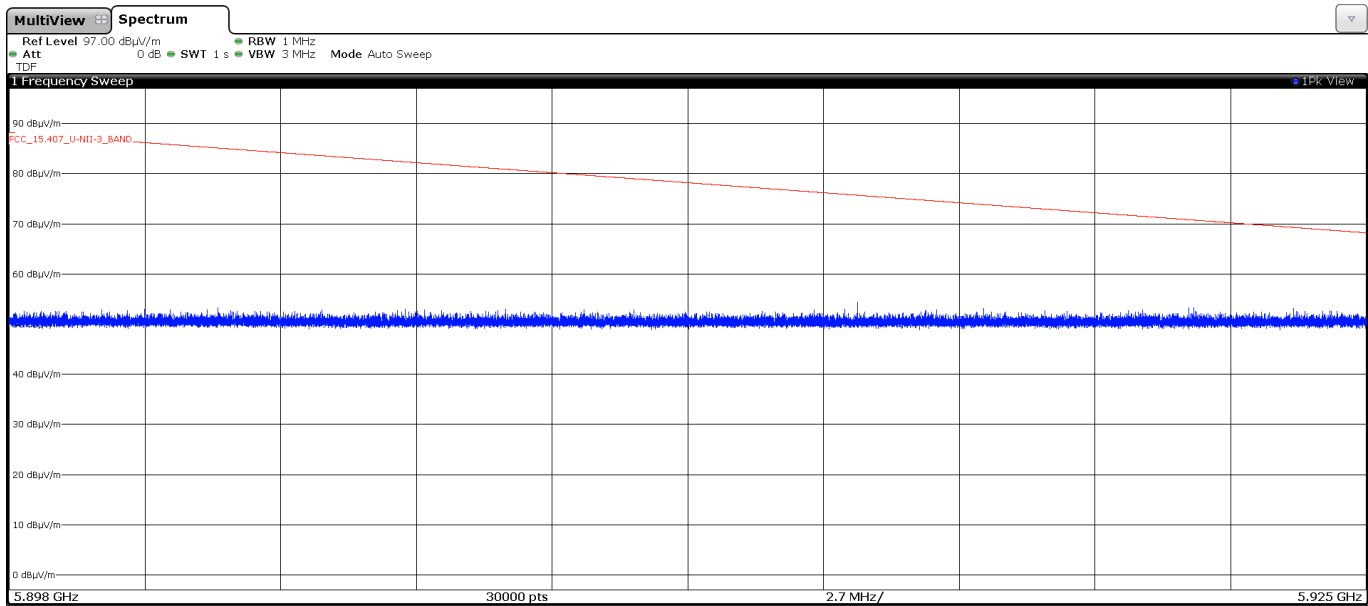
21.8 MHz/

5.898 GHz

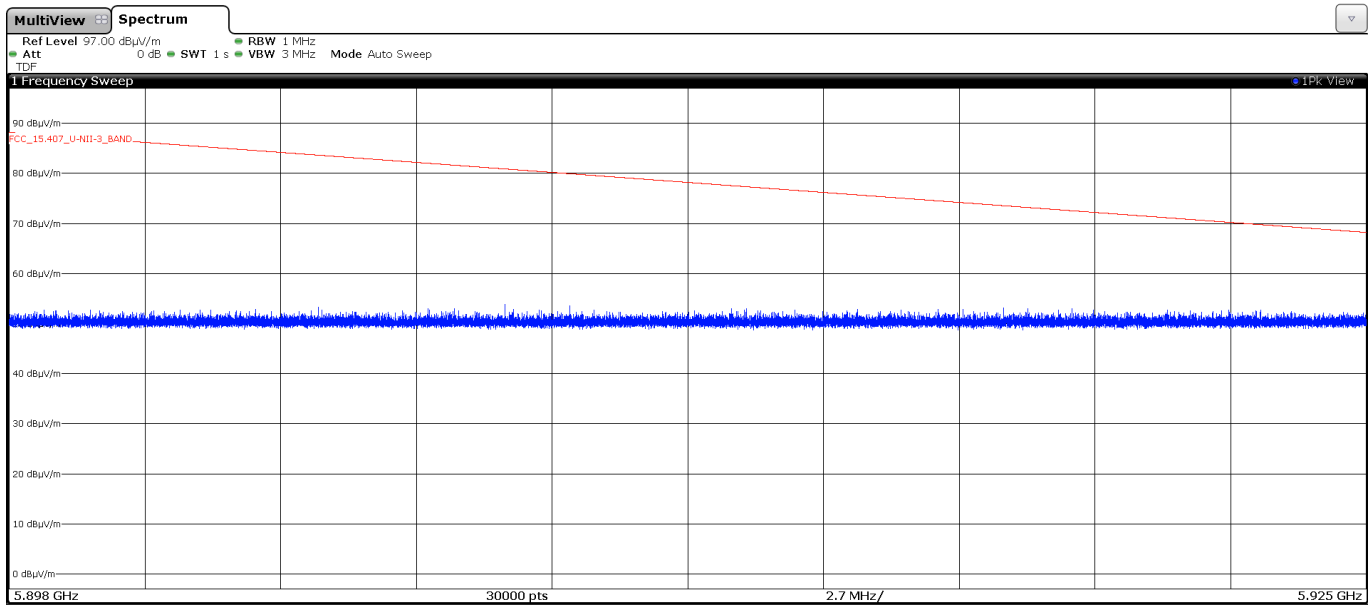
1Pk View

Radiated spurious emissions at band edges and inside adjacent band 5.898 – 5.925 GHz

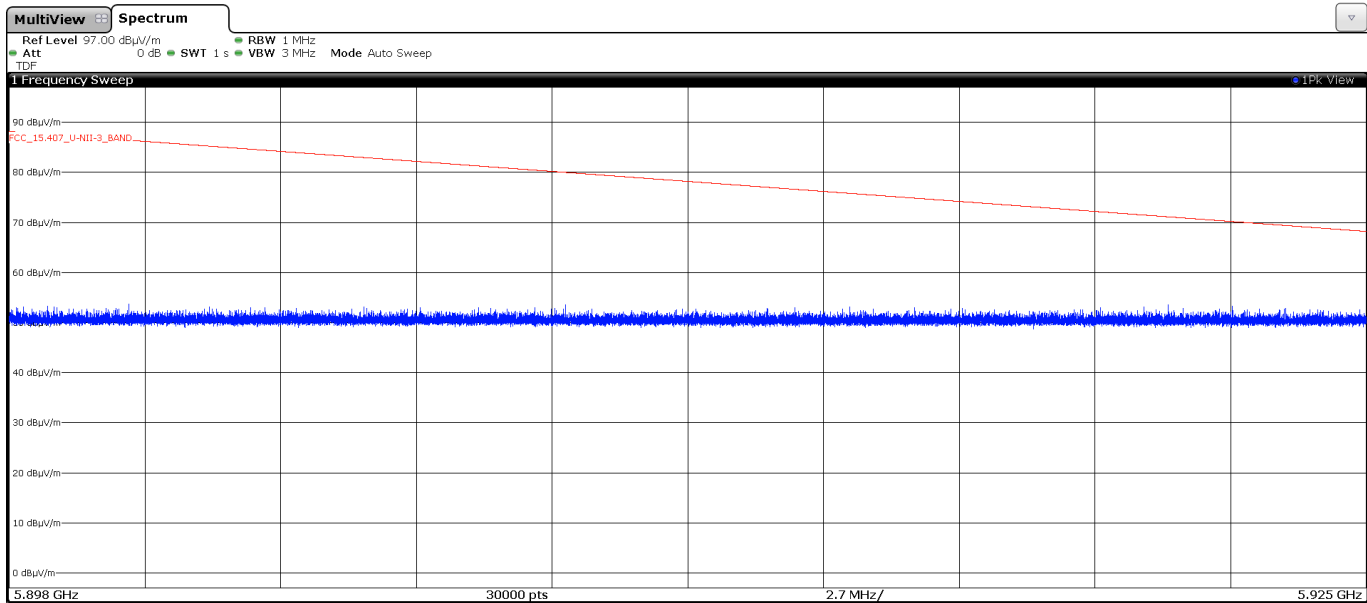
- Low Channel 149 (5745 MHz):



- Middle Channel 157 (5785 MHz):



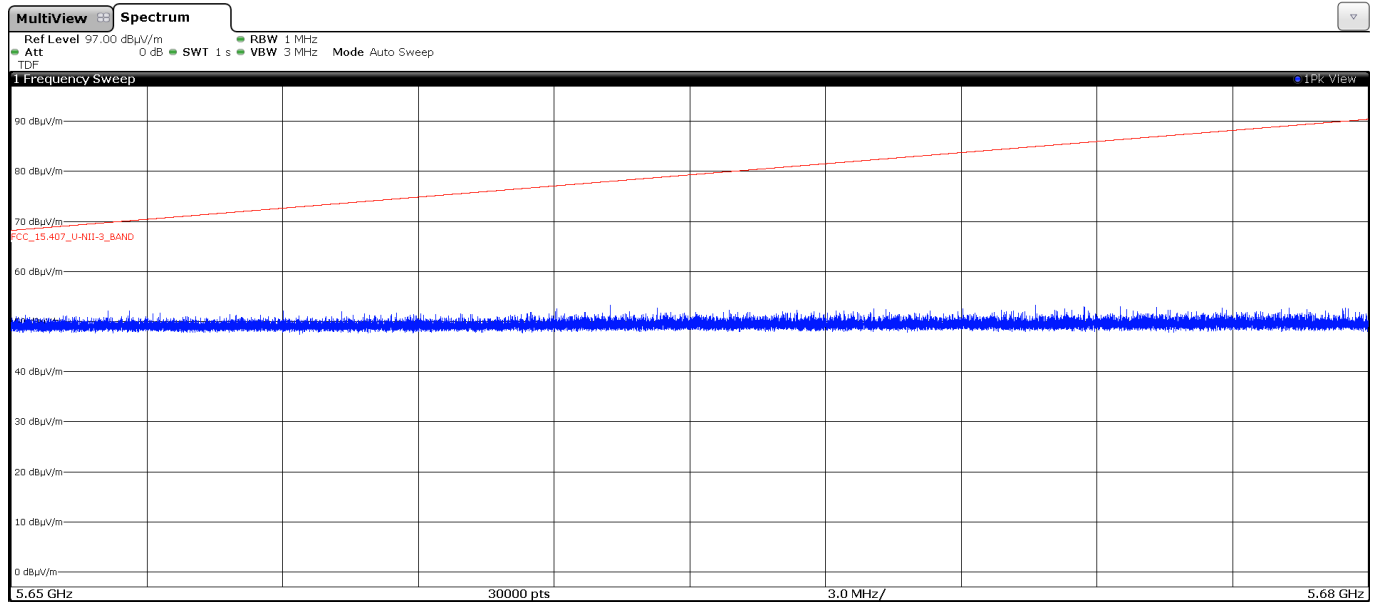
- High Channel 165 (5825 MHz):



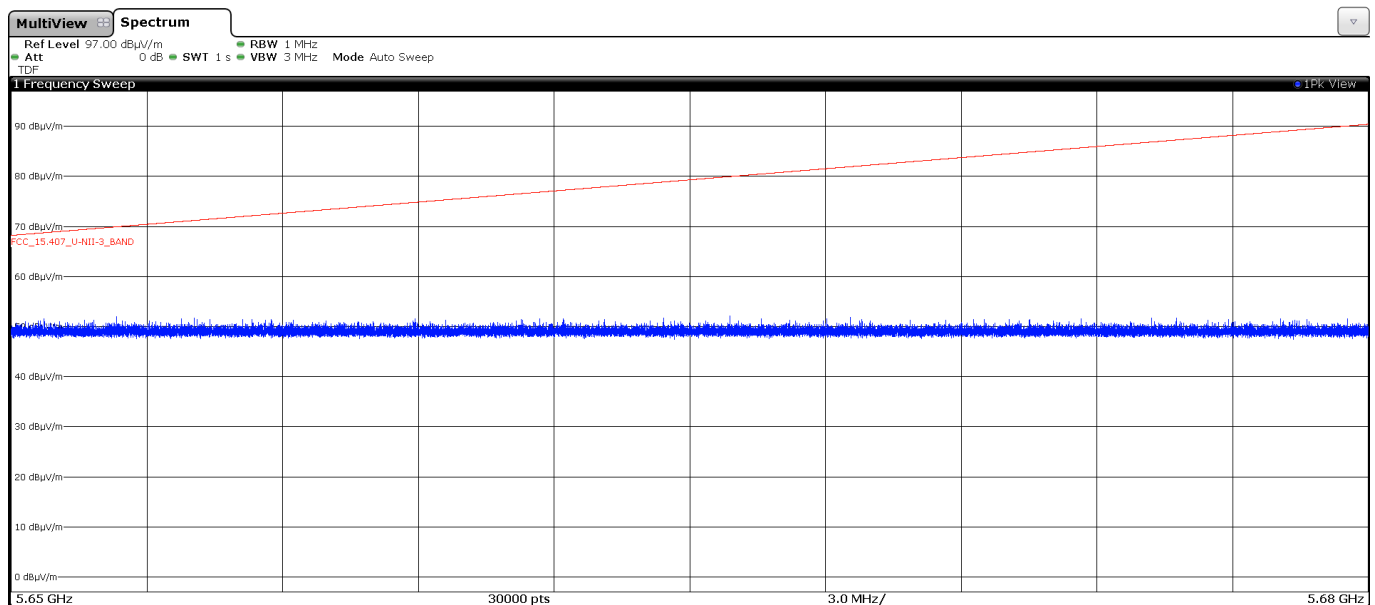
- **Mode 802.11 ac20**

Radiated spurious emissions at band edges and inside adjacent band 5.65 – 5.68 GHz

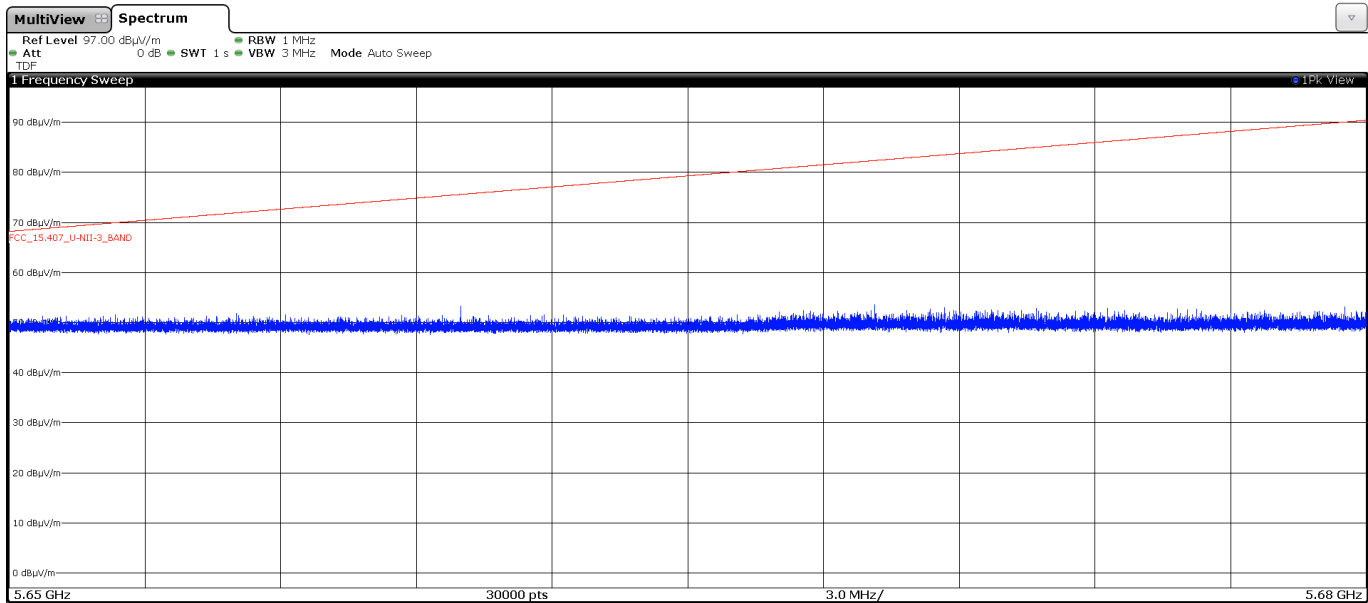
- Low Channel 149 (5745 MHz):



- Middle Channel 157 (5785 MHz):

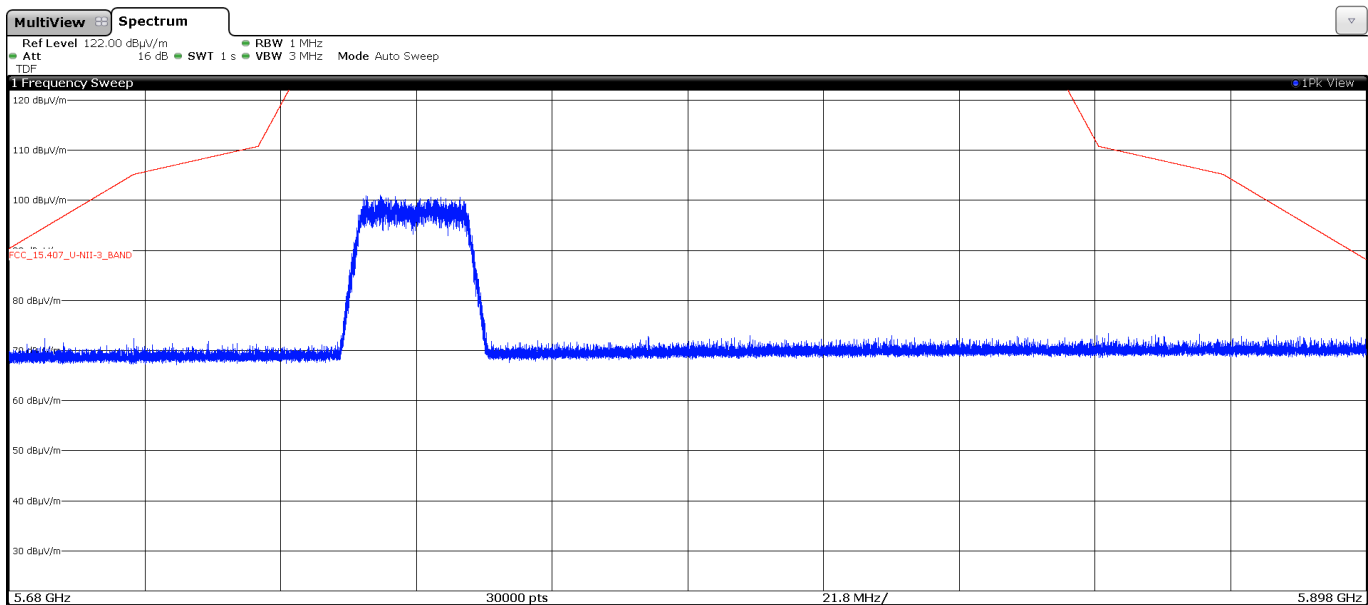


- High Channel 165 (5825 MHz):

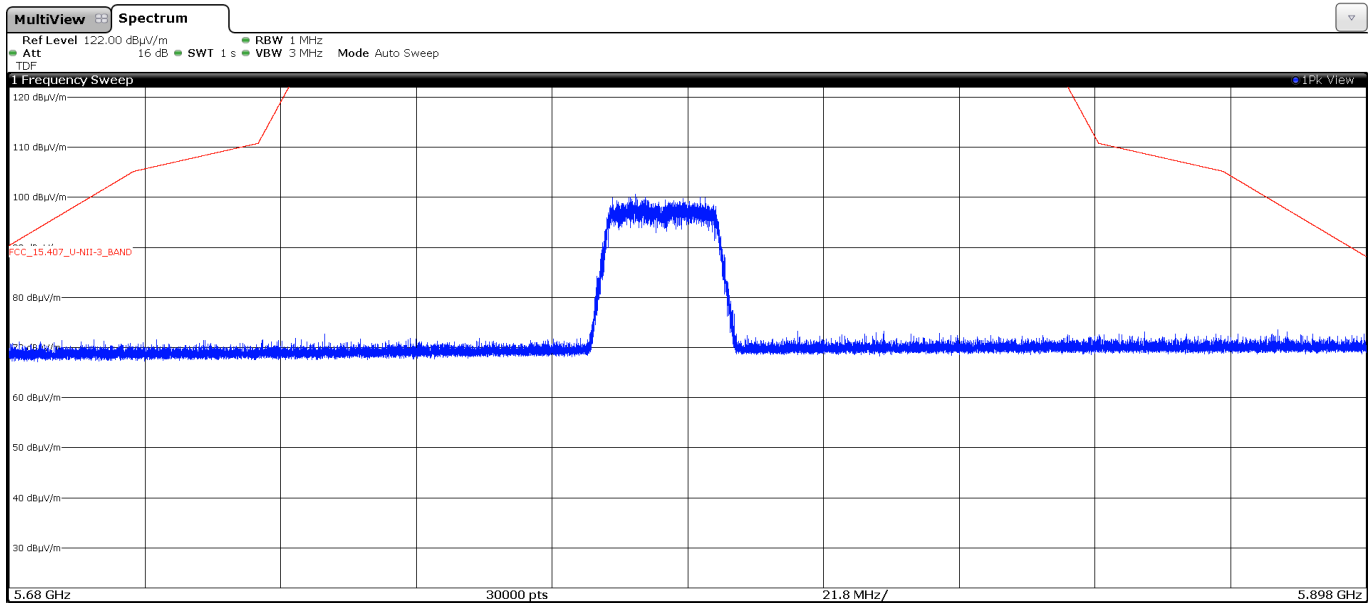


Radiated spurious emissions at band edges and inside adjacent band 5.68 – 5.898 GHz

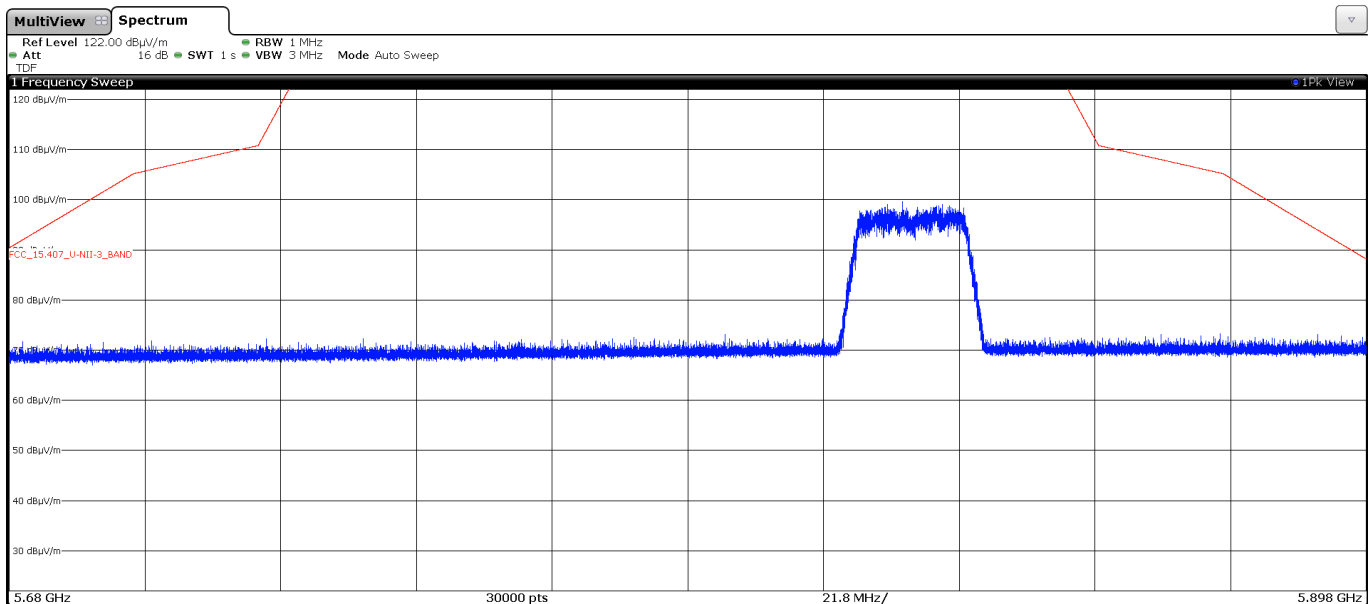
- Low Channel 149 (5745MHz):



- Middle Channel 157 (5785MHz):

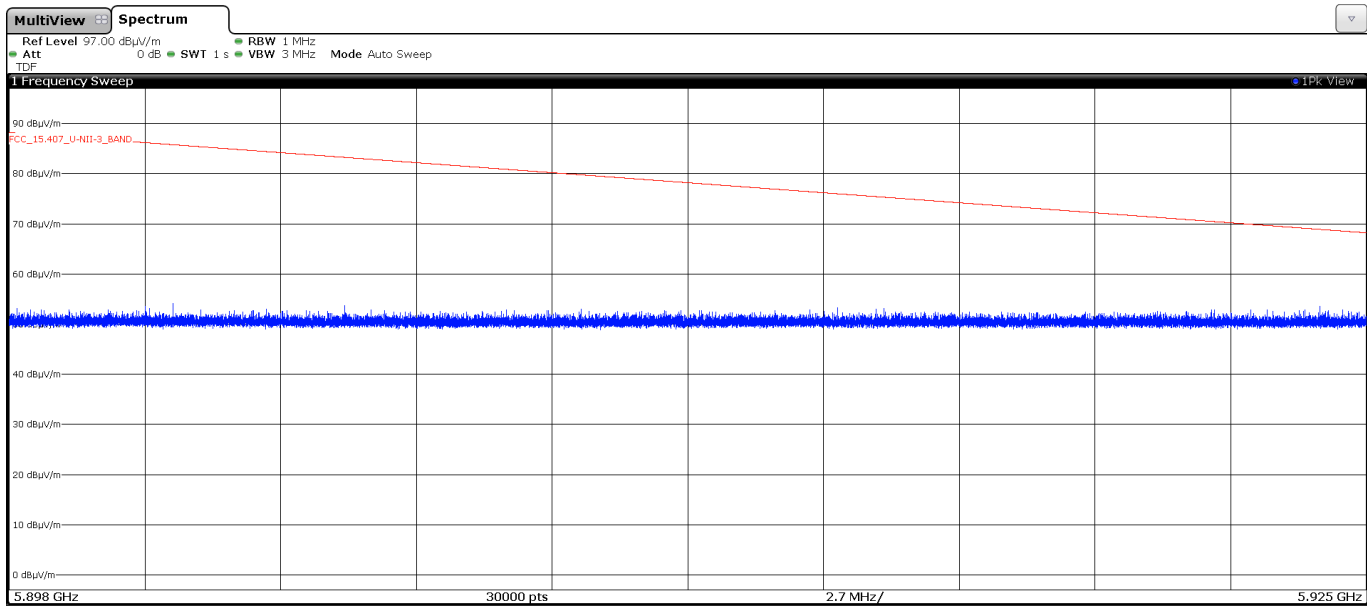


- High Channel 165 (5825MHz):

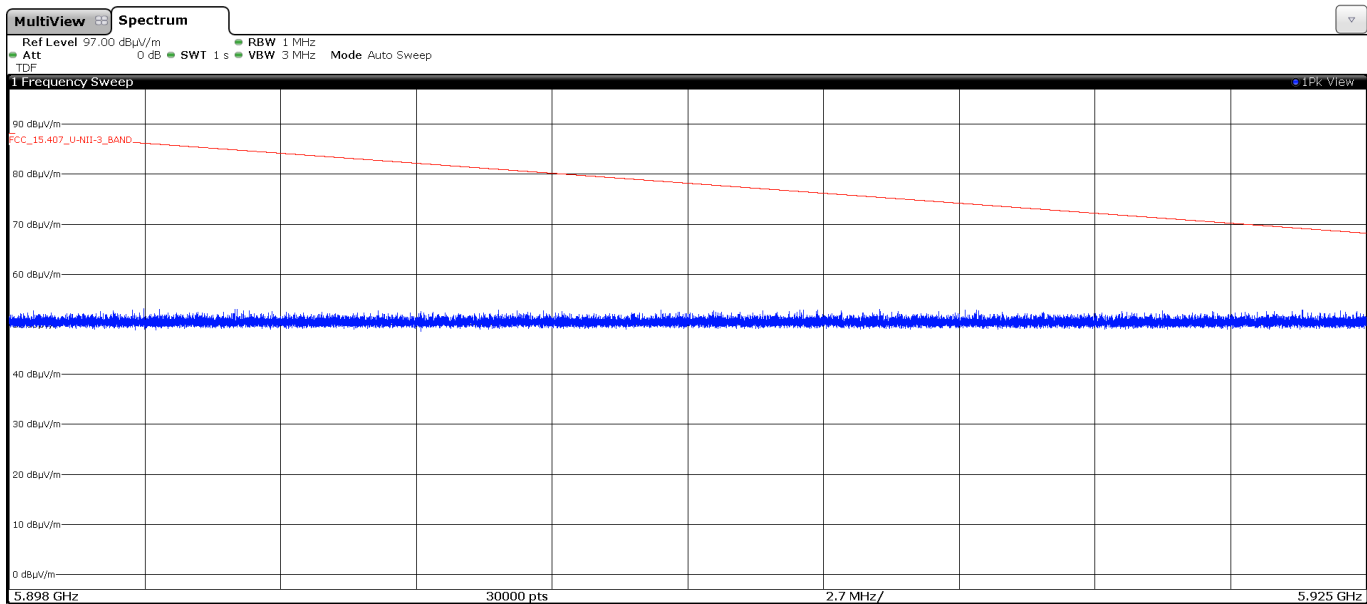


Radiated spurious emissions at band edges and inside adjacent band 5.898 – 5.925 GHz

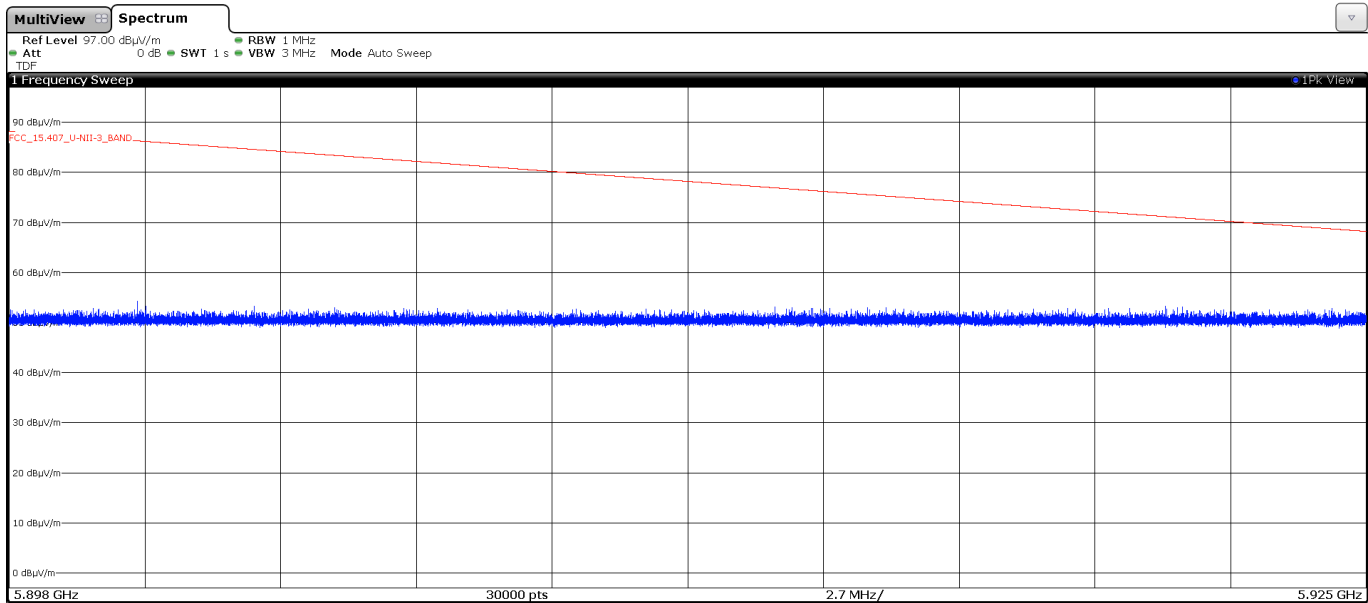
- Low Channel 149 (5745 MHz):



- Middle Channel 157 (5785 MHz):



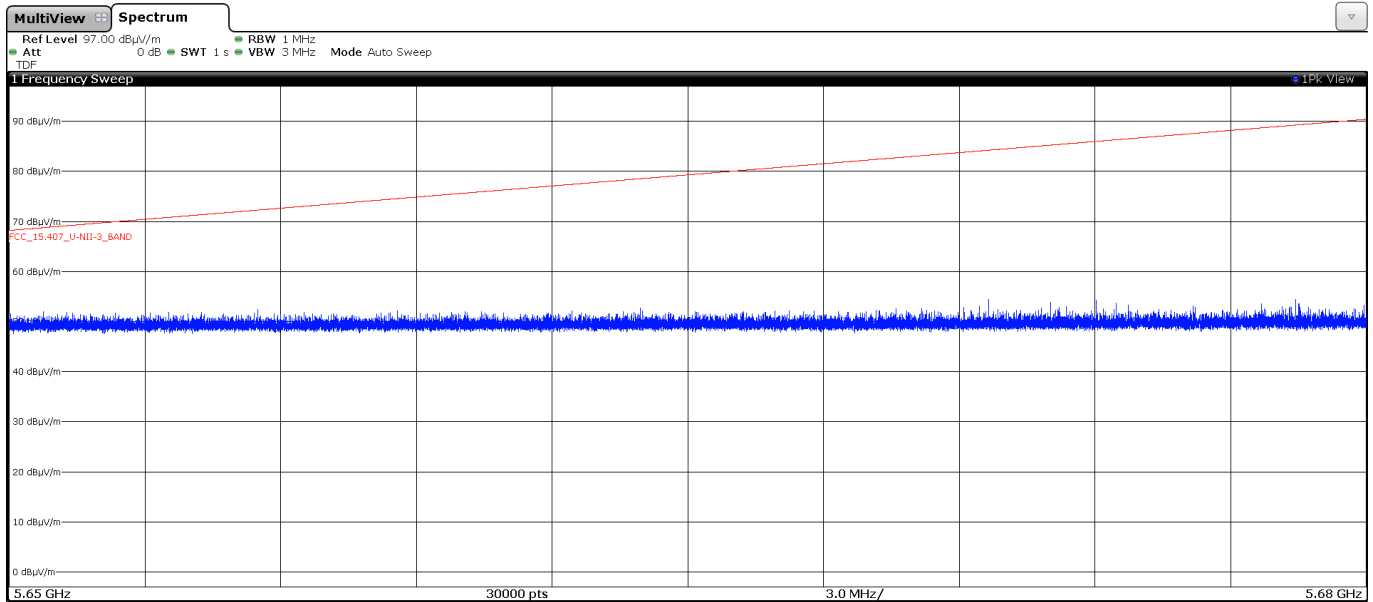
- High Channel 165 (5825 MHz):



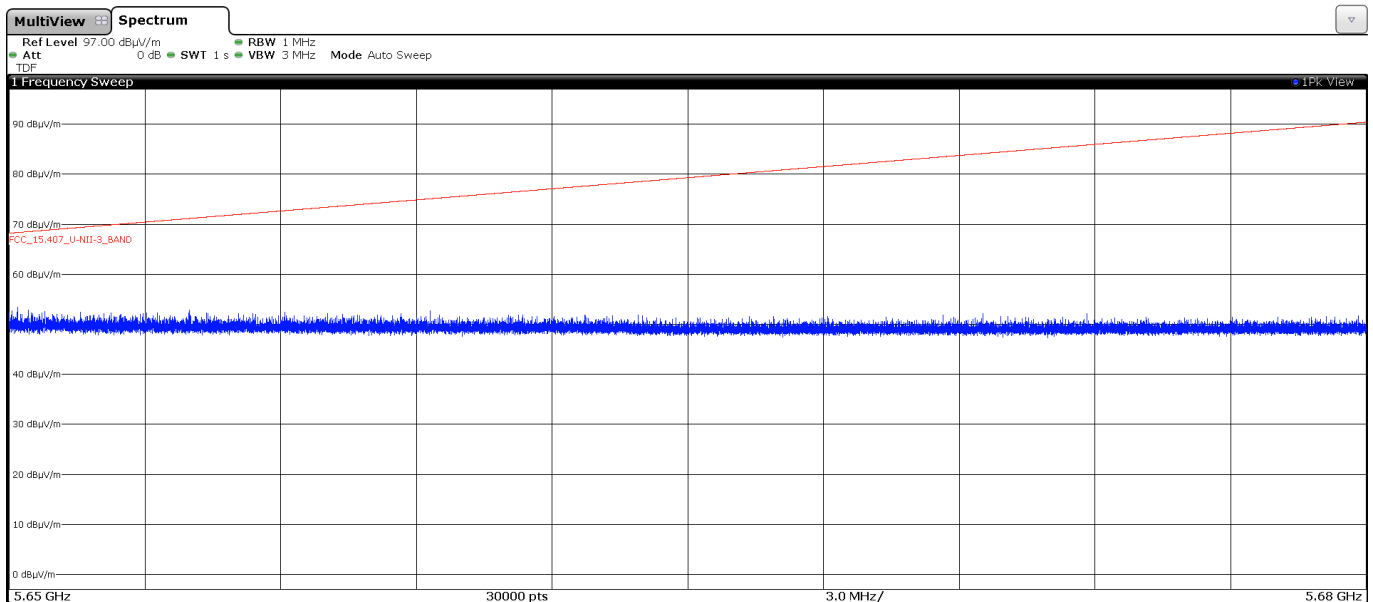
- **Mode 802.11 n40 (HT40)**

Radiated spurious emissions at band edges and inside adjacent band 5.65 – 5.68 GHz

- Low Channel 151 (5755 MHz):

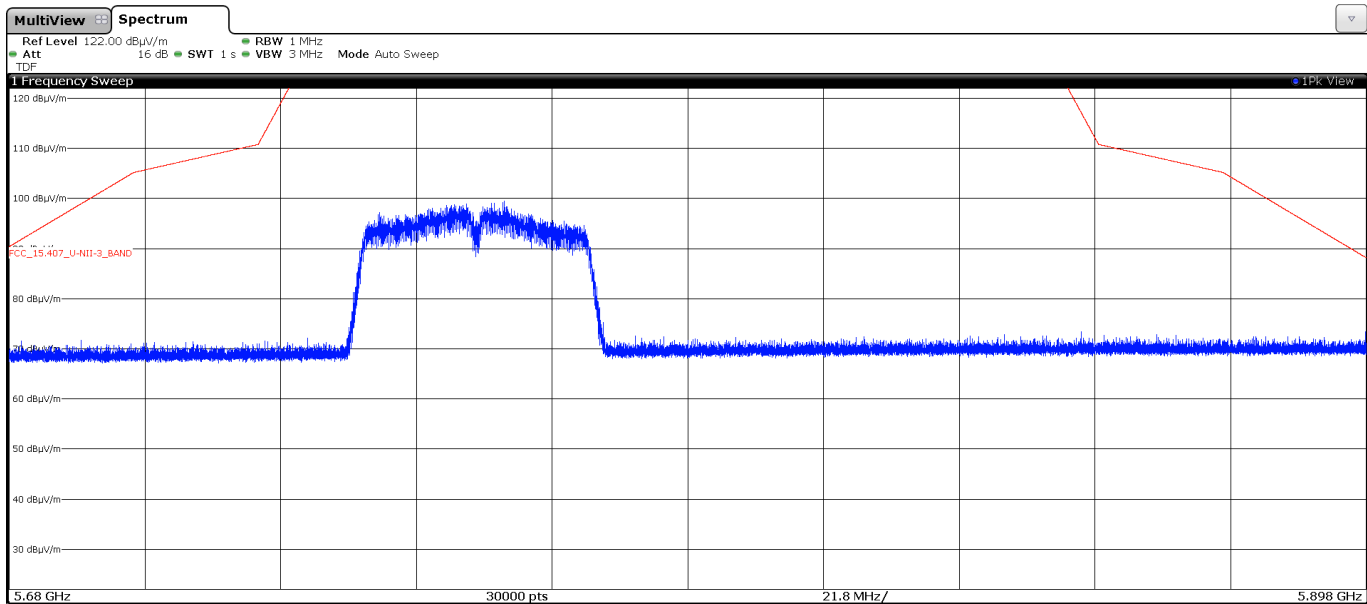


- High Channel 159 (5795 MHz):

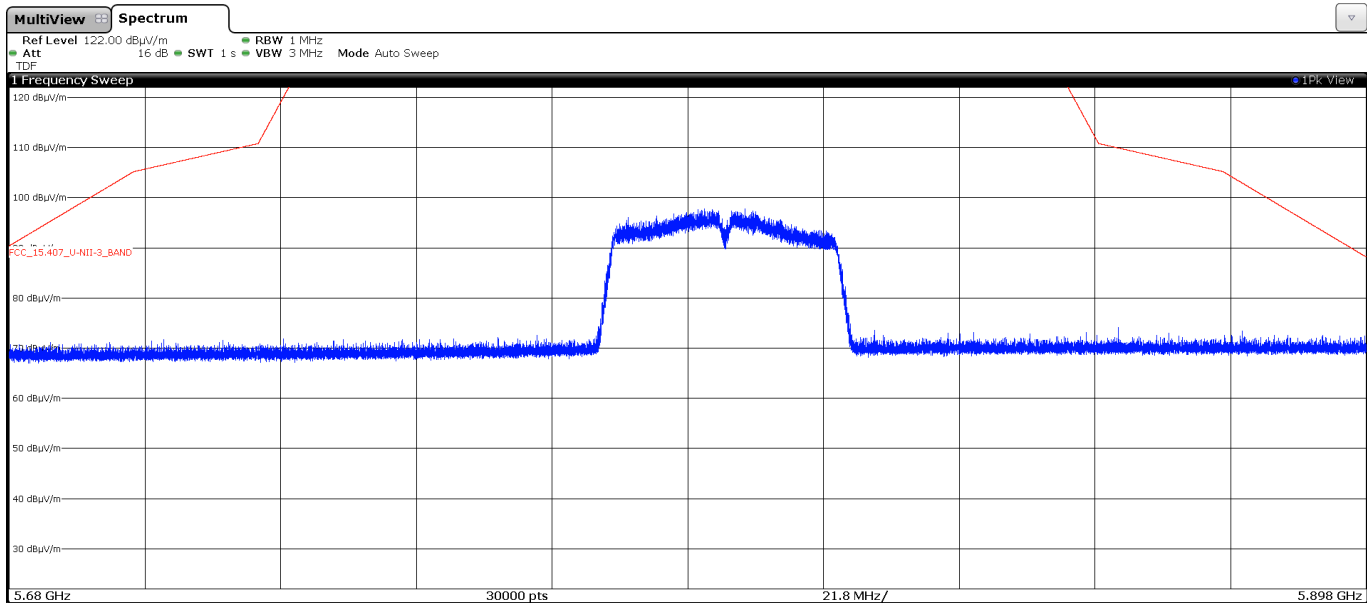


Radiated spurious emissions at band edges and inside adjacent band 5.68 – 5.898 GHz

- Low Channel 151 (5755 MHz):

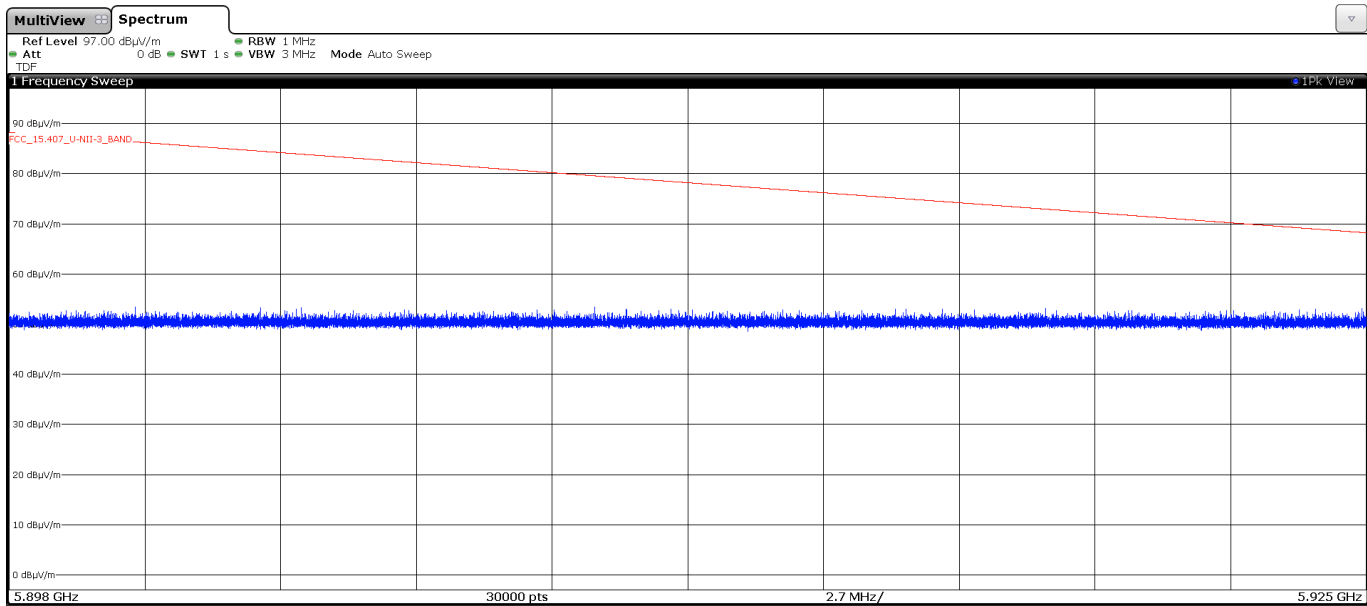


- High Channel 159 (5795 MHz):

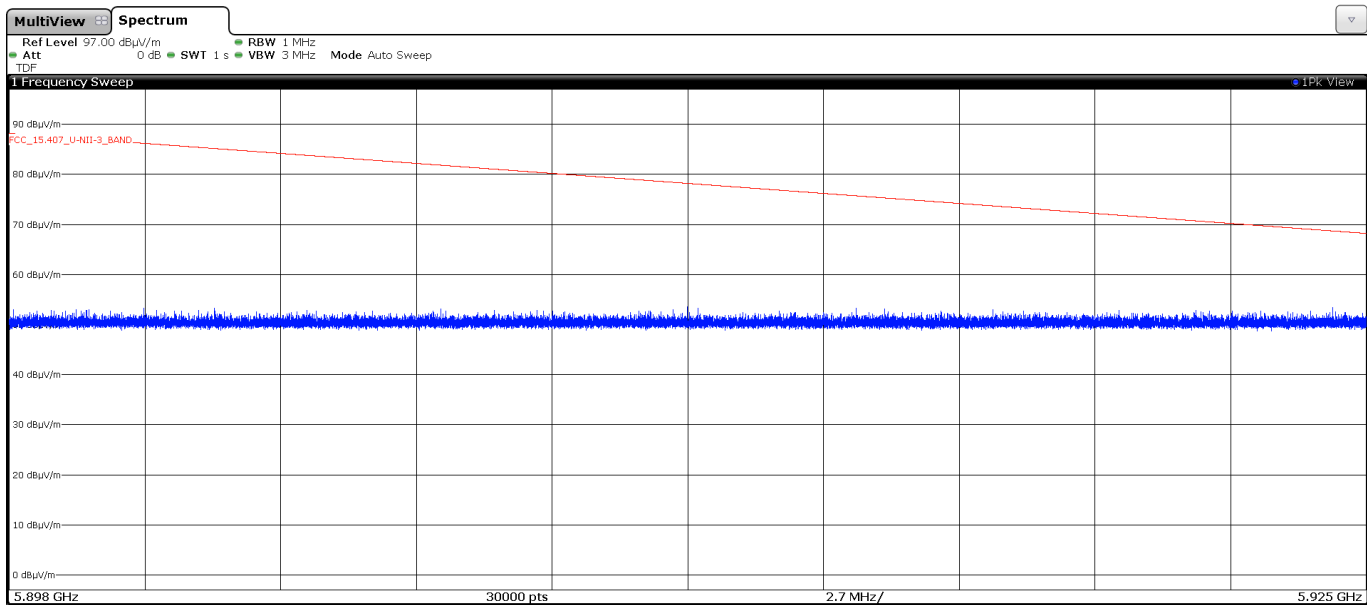


Radiated spurious emissions at band edges and inside adjacent band 5.898 – 5.925 GHz

- Low Channel 151 (5755 MHz):



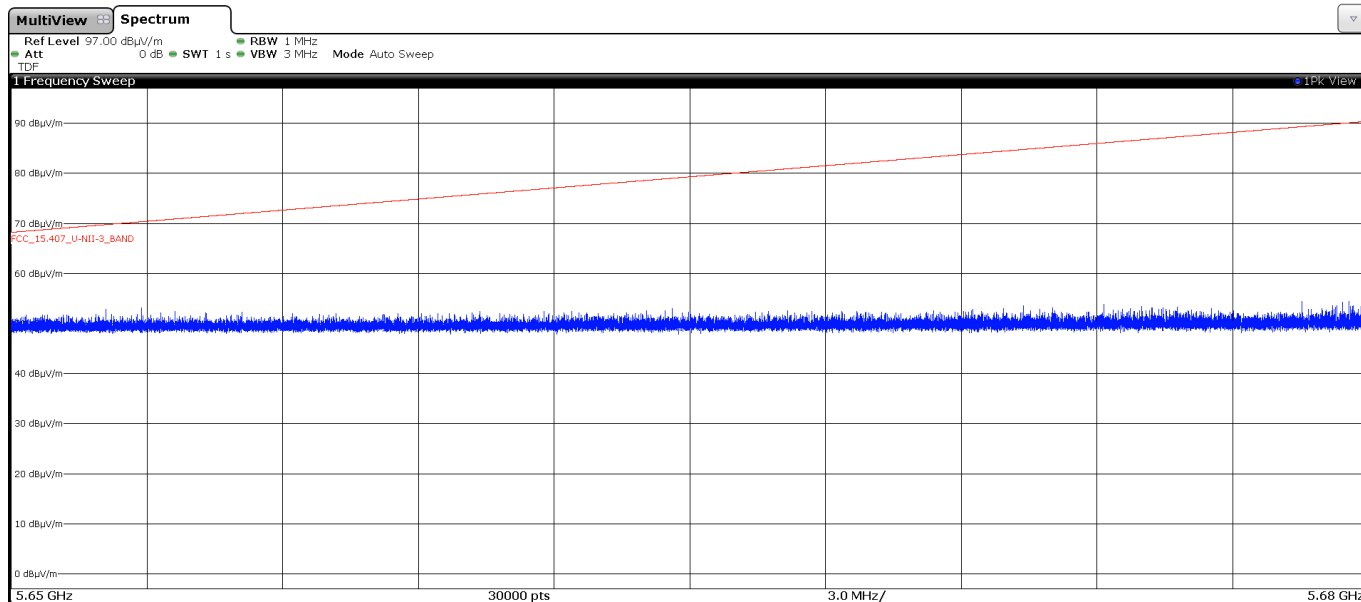
- High Channel 159 (5795 MHz):



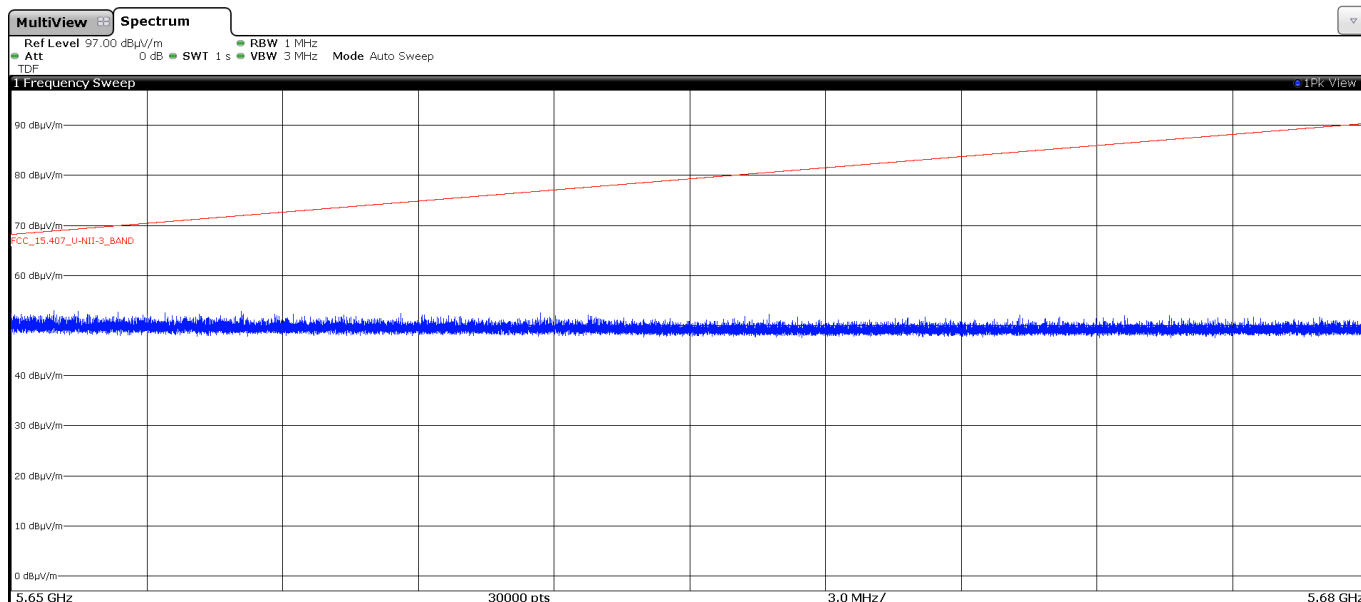
- **Mode 802.11 ac40**

Radiated spurious emissions at band edges and inside adjacent band 5.65 – 5.68 GHz

- Low Channel 151 (5755 MHz):

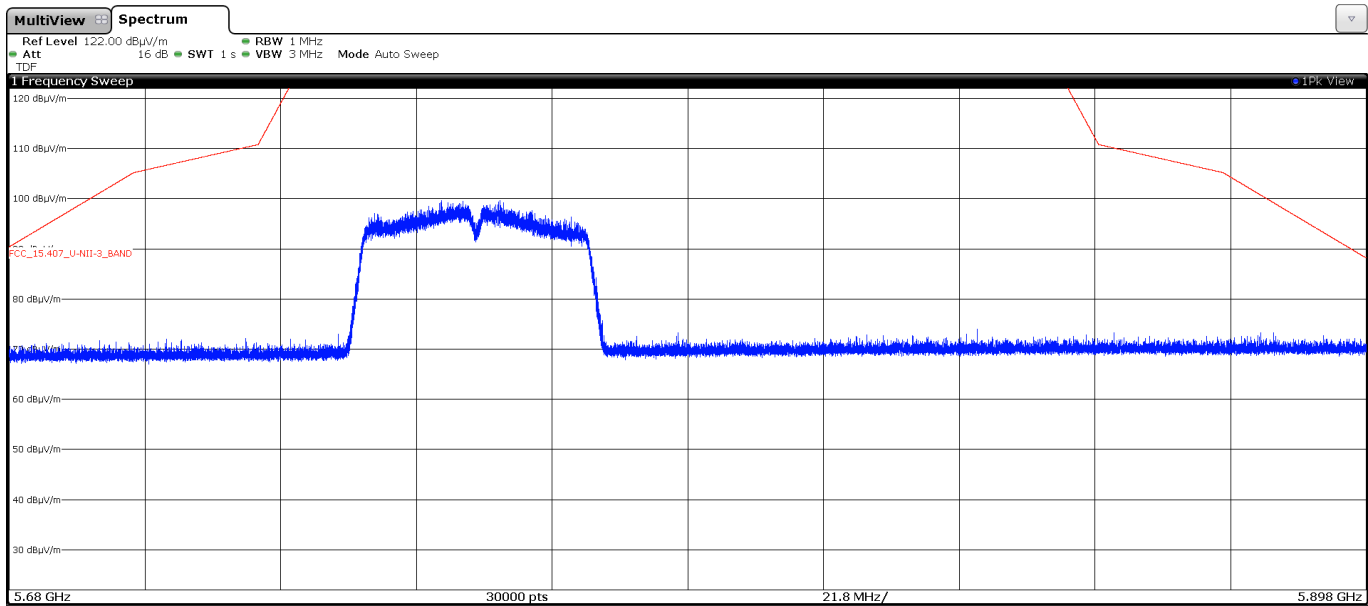


- High Channel 159 (5795 MHz):

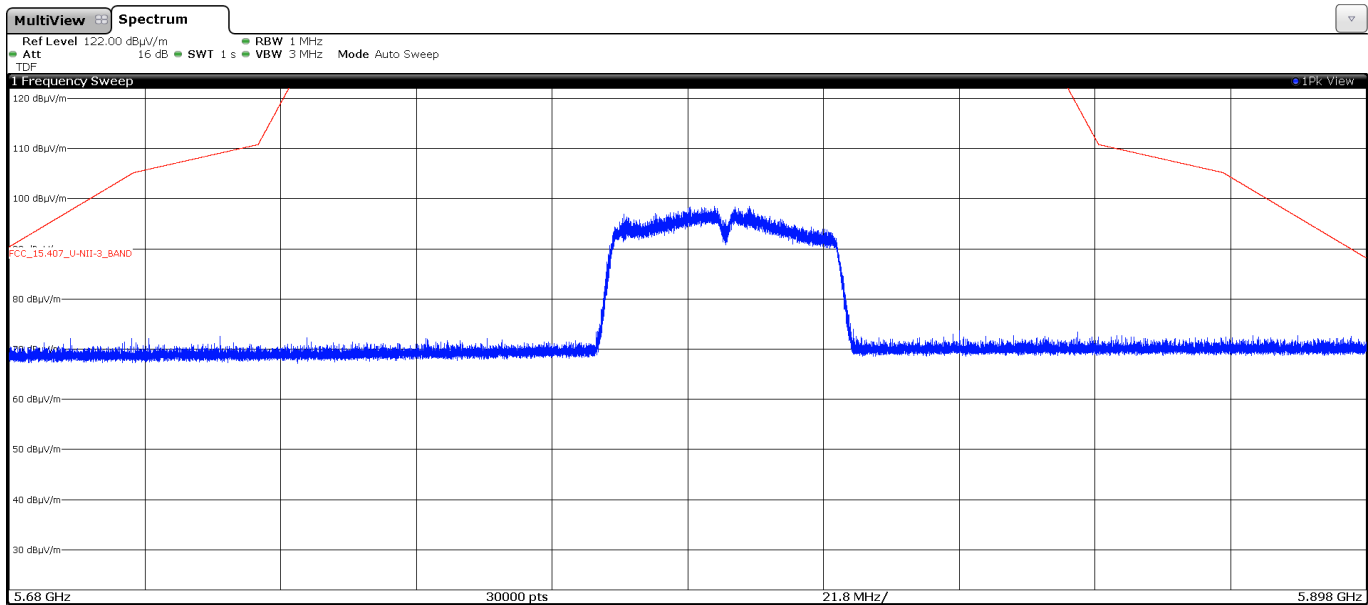


Radiated spurious emissions at band edges and inside adjacent band 5.68 – 5.898 GHz

- Low Channel 151 (5755 MHz):

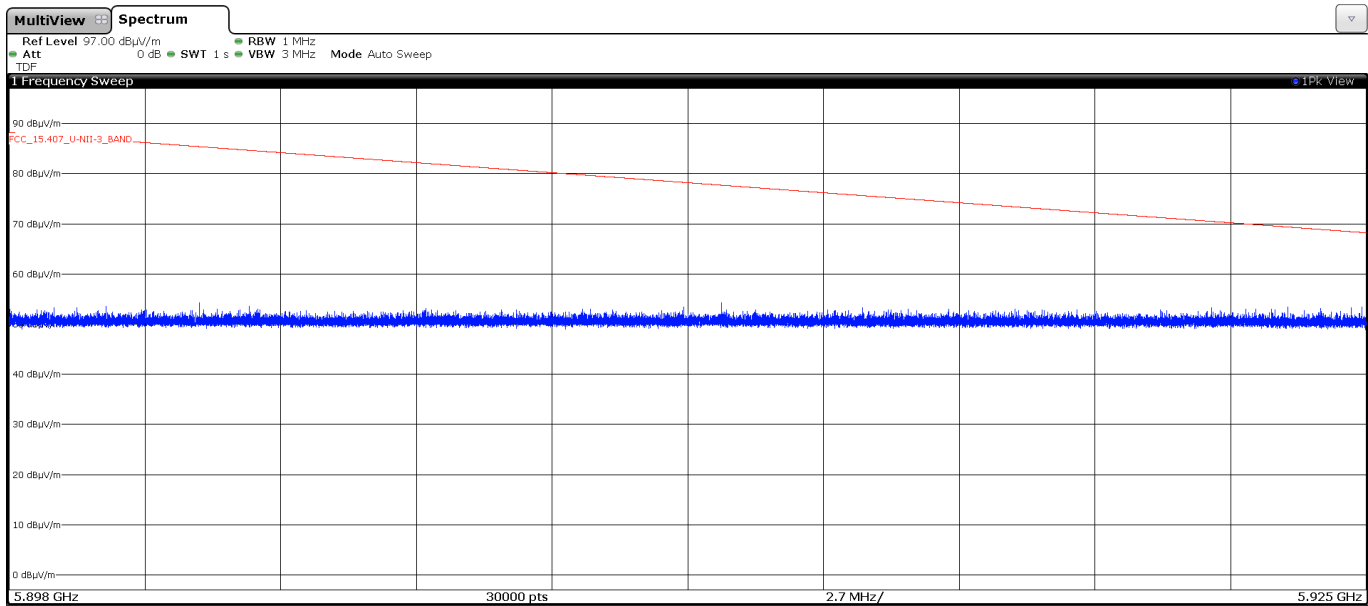


- High Channel 159 (5795 MHz):

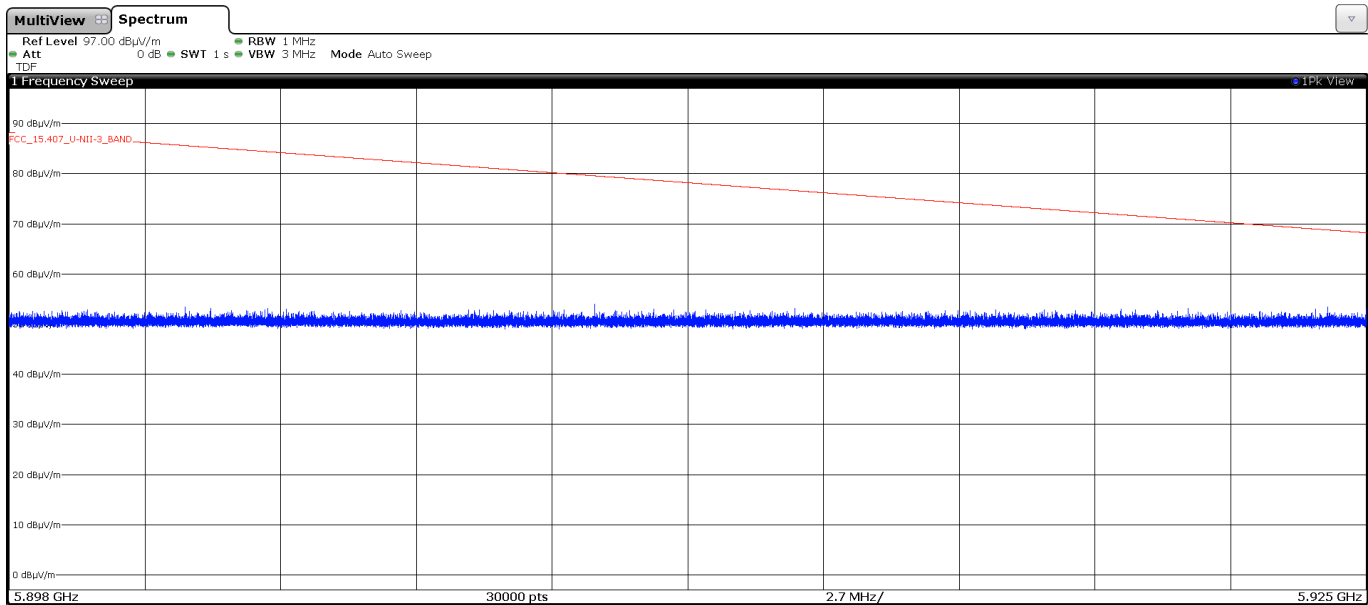


Radiated spurious emissions at band edges and inside adjacent band 5.898 – 5.925 GHz

- Low Channel 151 (5755 MHz):



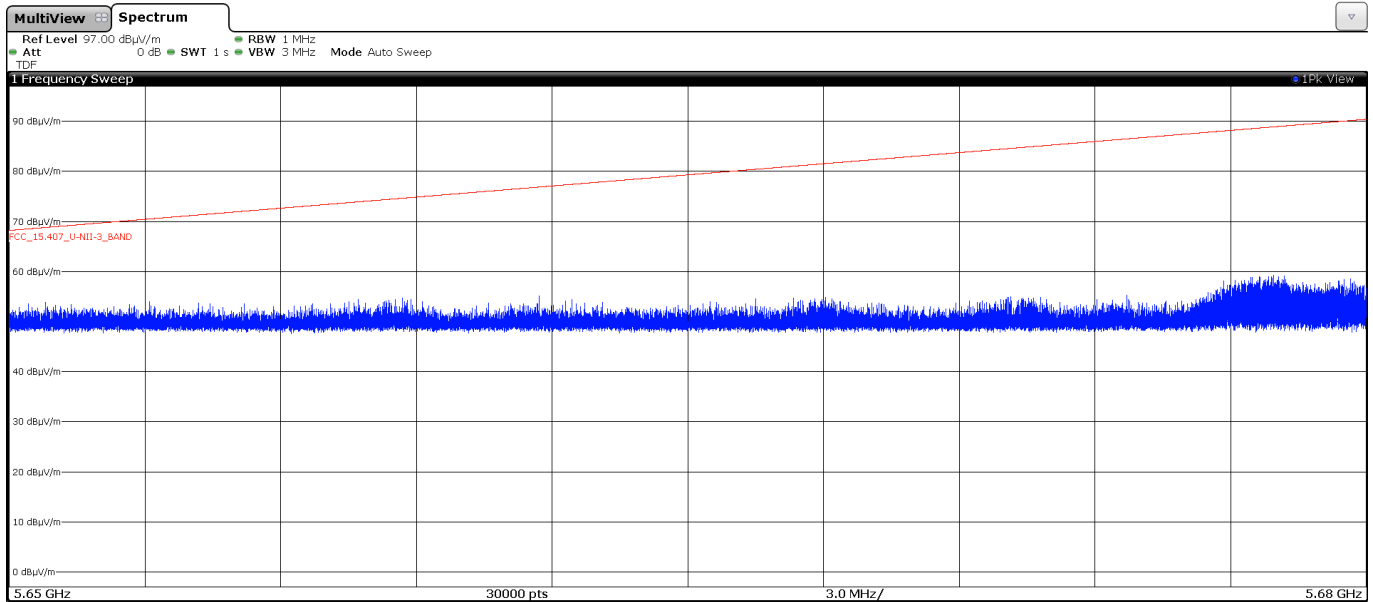
- High Channel 159 (5795 MHz):



- **Mode 802.11 ac80 (VHT80)**

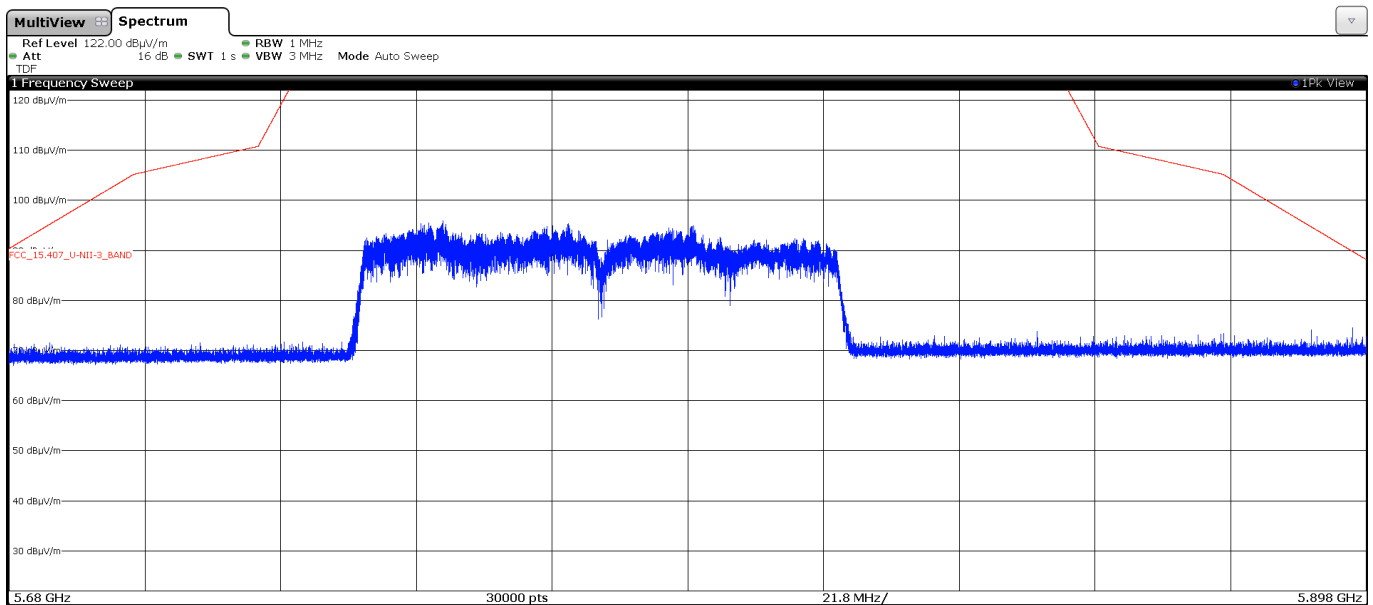
Radiated spurious emissions at band edges and inside adjacent band 5.65 – 5.68 GHz

- Middle Channel 155 (5775 MHz):



Radiated spurious emissions at band edges and inside adjacent band 5.68 – 5.898 GHz

- Middle Channel 155 (5775 MHz):



Radiated spurious emissions at band edges and inside adjacent band 5.898 – 5.925 GHz

- Middle Channel 155 (5775 MHz):

