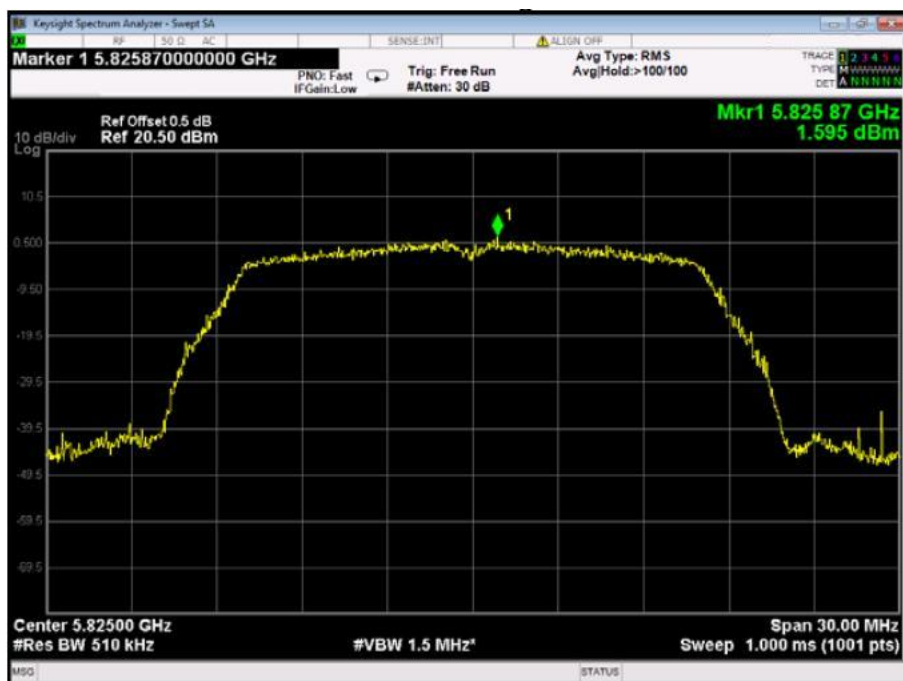
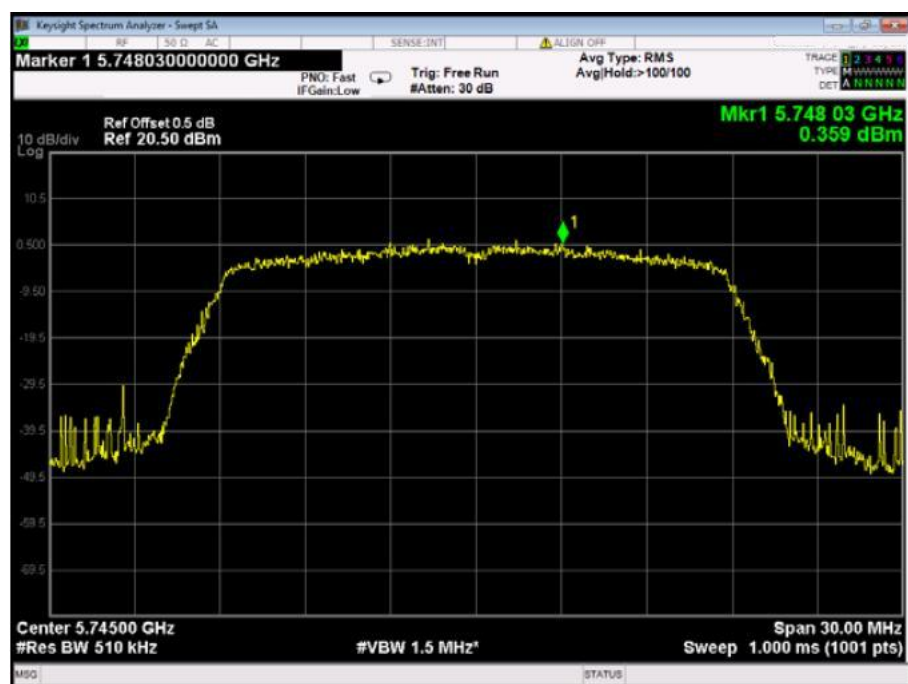


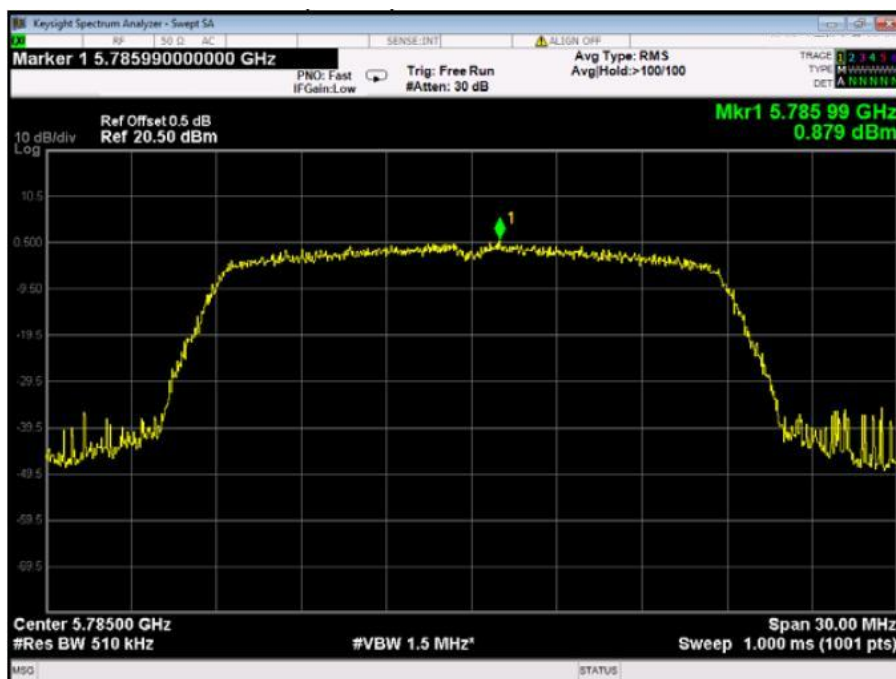
U-NII-3 802.11a High CH



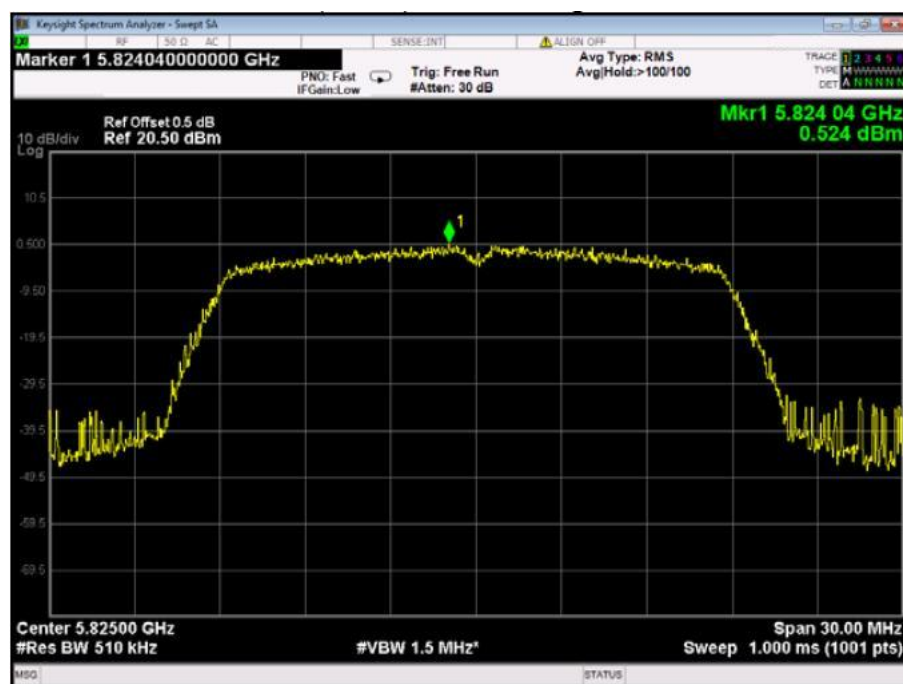
U-NII-3 802.11n(HT20) Low CH



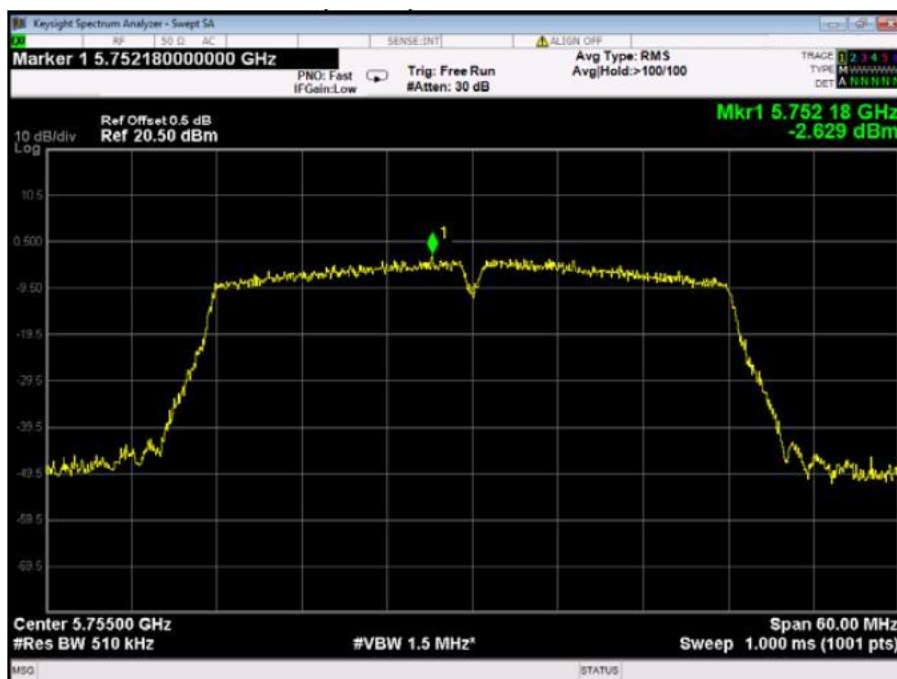
U-NII-3 802.11n(HT20) Middle CH



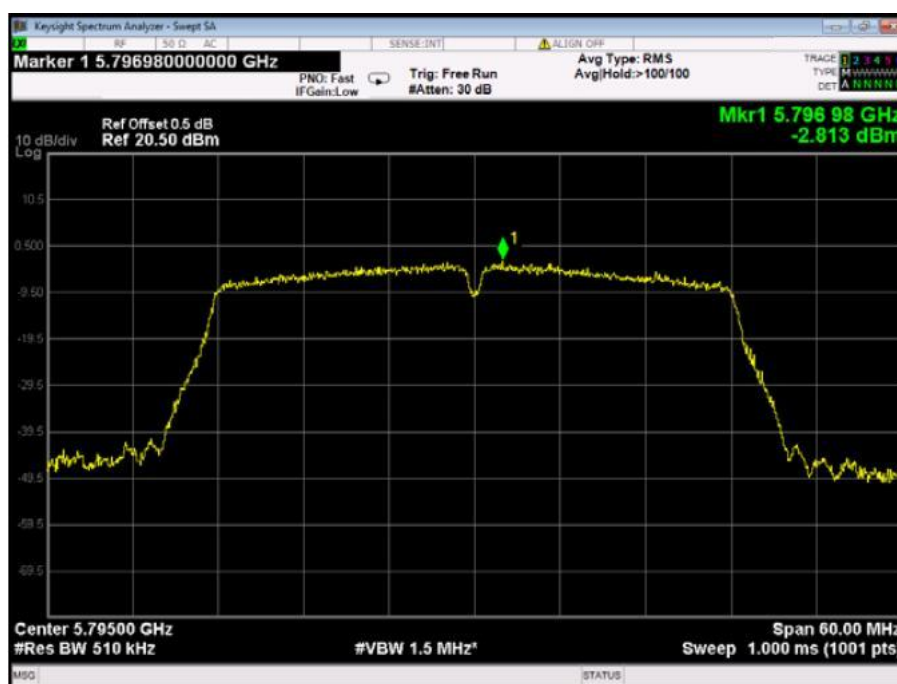
U-NII-3 802.11n(HT20) High CH



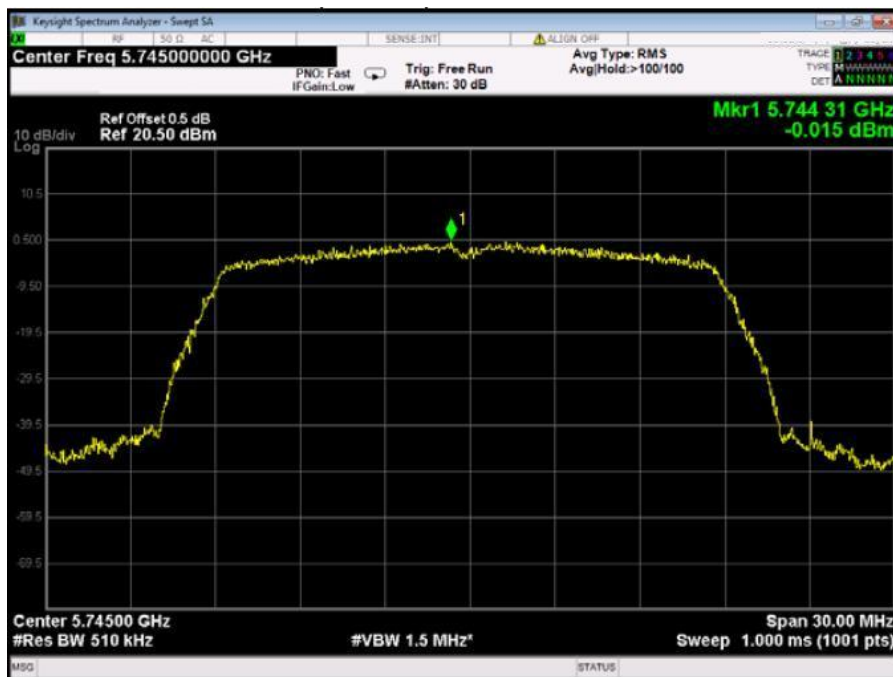
U-NII-3 802.11n(HT40) Low CH



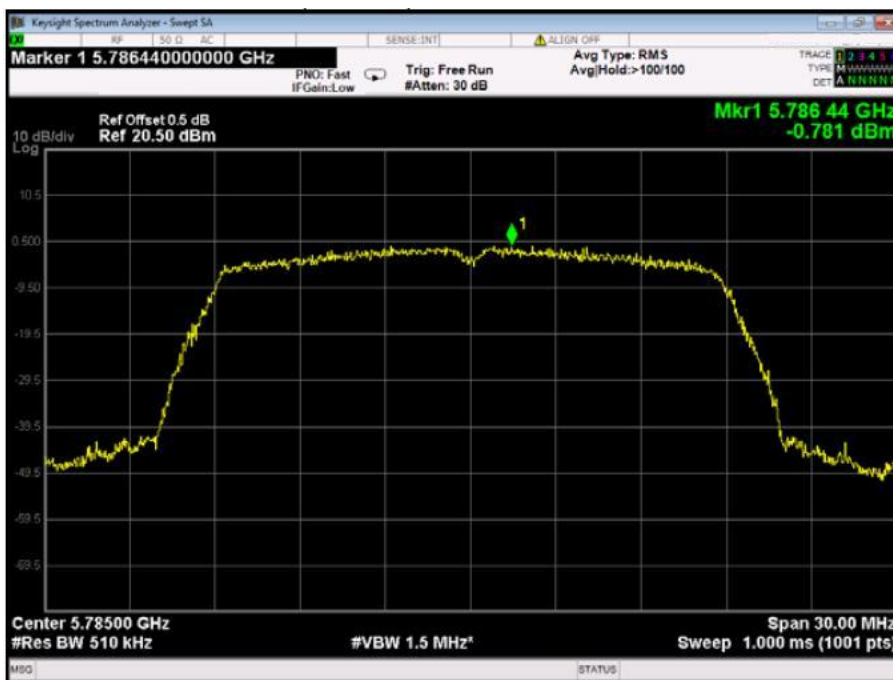
U-NII-3 802.11n(HT40) High CH



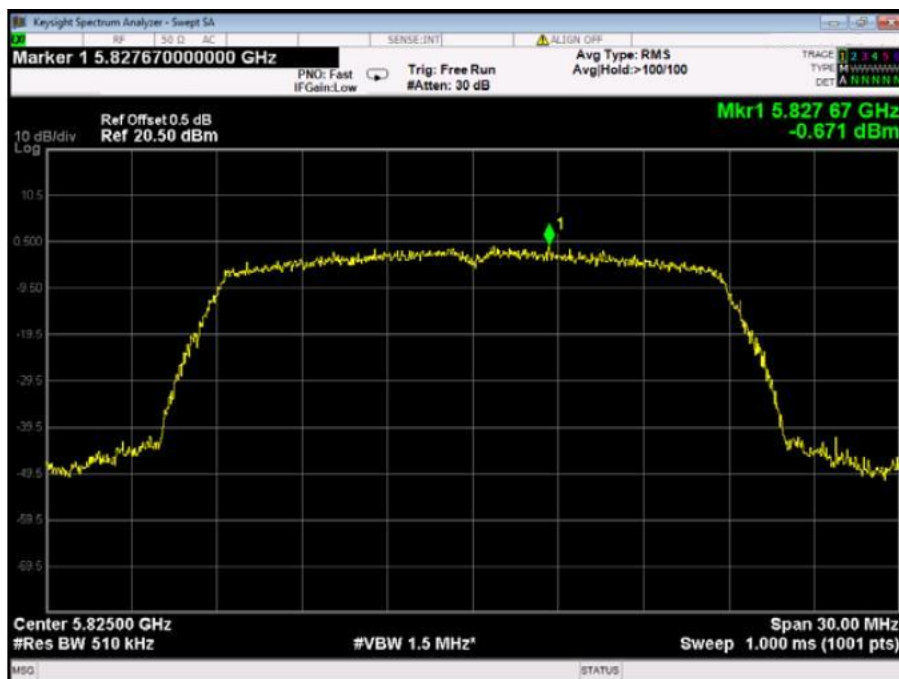
U-NII-3 802.11ac(HT20) Low CH



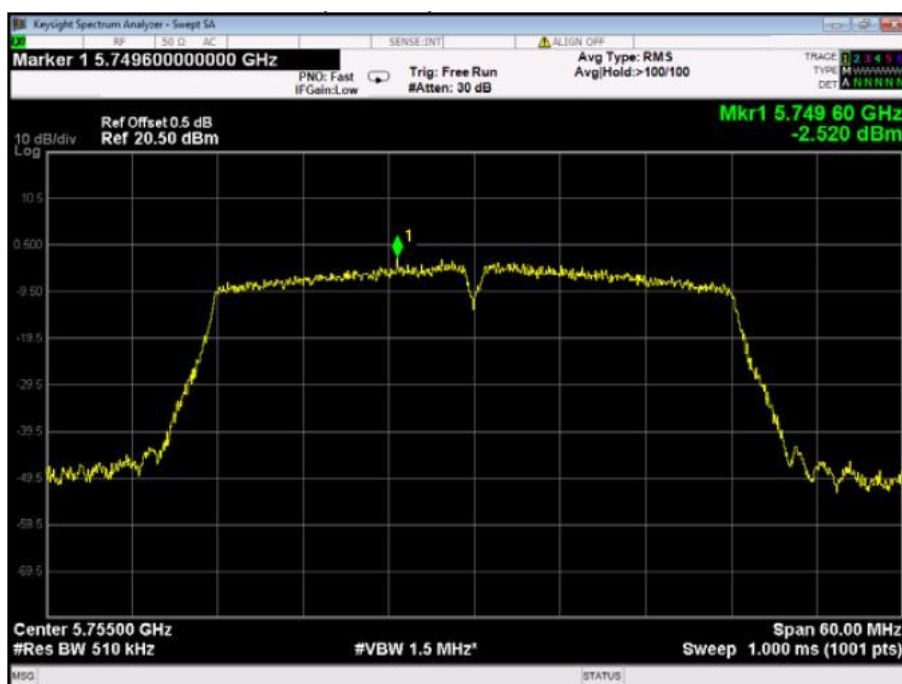
U-NII-3 802.11ac(HT20) Middle CH



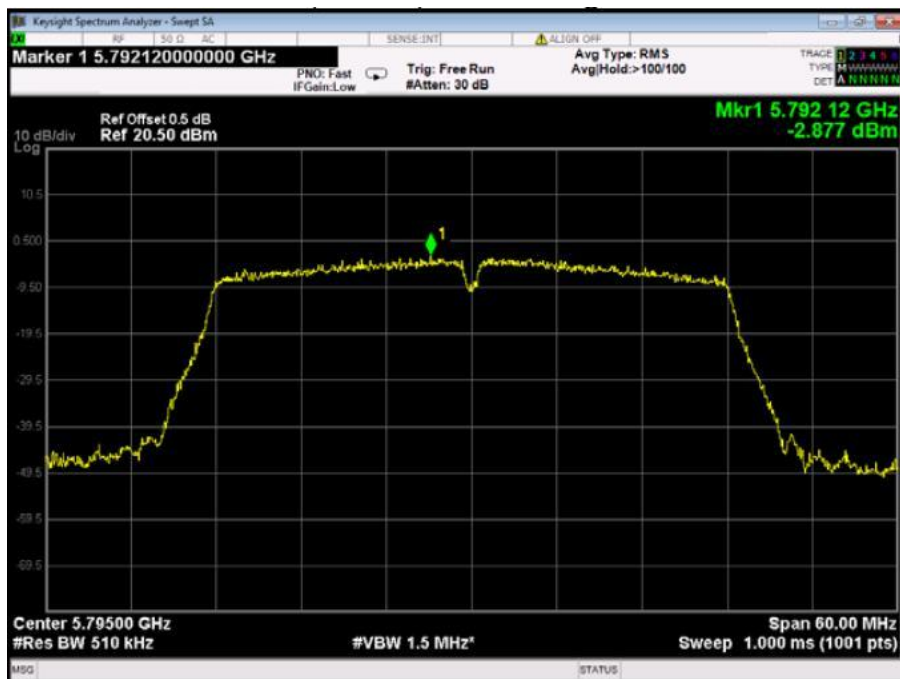
U-NII-3 802.11ac(HT20) High CH



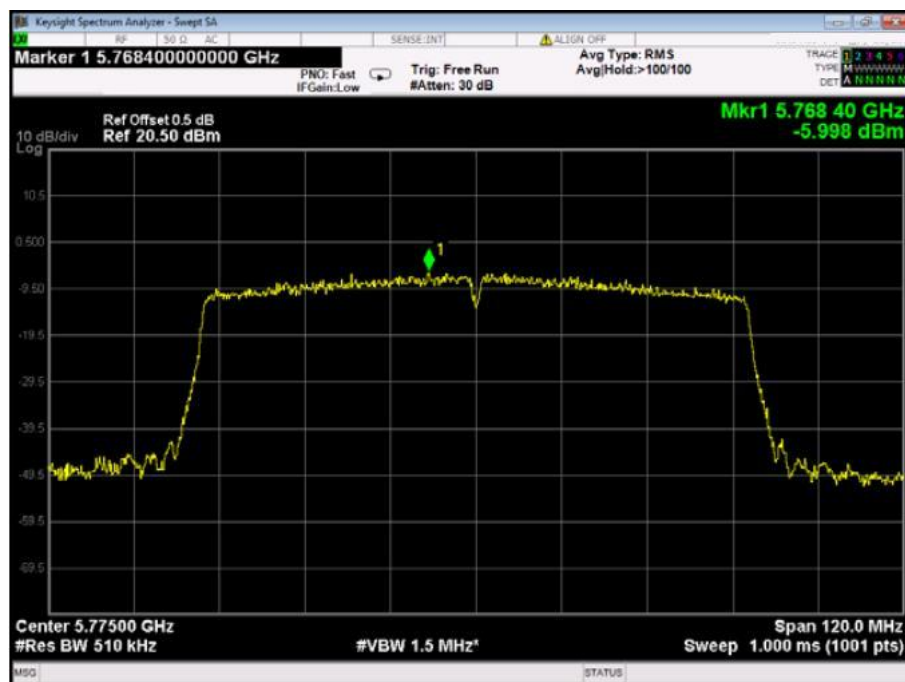
U-NII-3 802.11ac(HT40) Low CH



U-NII-3 802.11ac(HT40) High CH



U-NII-3 802.11ac(HT80) Low CH



6. FREQUENCY STABILITY MEASUREMENT

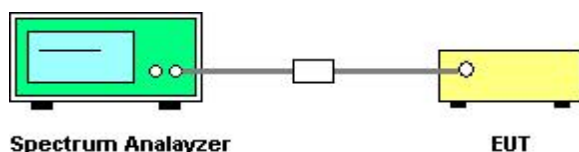
6.1 LIMIT

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual

6.2 TEST PROCEDURE

- (1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
- (2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
- (3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

6.3 TEST SETUP



6.4 TEST RESULTS

U-NII-1 Test Frequency:5180MHz				
Temperature (°C)	Power Supply (DC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	5.0 V	/	/	/
45		1807	2.1599	20
30		1800	2.1516	20
20		1806	2.1587	20
10		1800	2.1516	20
0		1803	2.1552	20
-10		1800	2.1516	20
-15		1809	2.1623	20
-30		/	/	/
20	5.0 V	1810	2.1635	20
20	5.0 V	1798	2.1492	20

U-NII-3 Test Frequency:5785MHz				
Temperature (°C)	Power Supply (DC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	5.0 V	/	/	/
45		1919	2.2938	20
30		1911	2.2842	20
20		1915	2.2890	20
10		1923	2.2986	20
0		1907	2.2795	20
-10		1908	2.2807	20
-15		1914	2.2878	20
-30		/	/	/
20	5.0 V	1918	2.2926	20
20	5.0 V	1906	2.2783	20

7. Conducted spurious emission and Band edge

7.1 LIMIT

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

Frequency Band (MHz)	Limit
5150 - 5250	Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm
5250 - 5350	Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm
5470 - 5725	Outside of the 5.47-5.725 GHz band: e.i.r.p. -27 dBm
5725 - 5850	All emissions shall be limited to a level of -27 dBm/MHz 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.

7.2 TEST PROCEDURE

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 1 MHz for $f > 1$ GHz, 100 kHz

for $f < 1$ GHz VBW > RBW

Sweep = auto

Detector

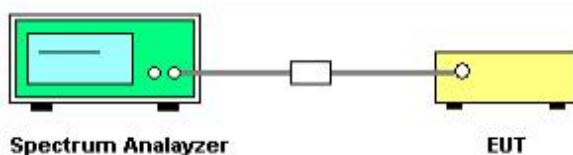
function =

peak Trace =

max hold

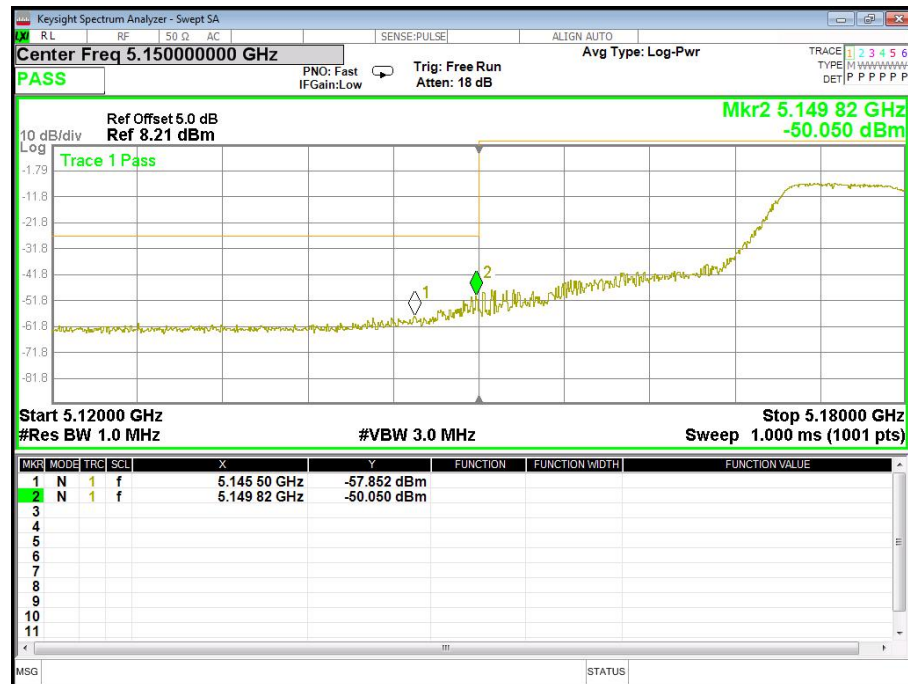
Allow the trace to stabilize

7.3 TEST SETUP



7.4 TEST RESULTS

U-NII-1 802.11a left side



U-NII-1 802.11a Right side



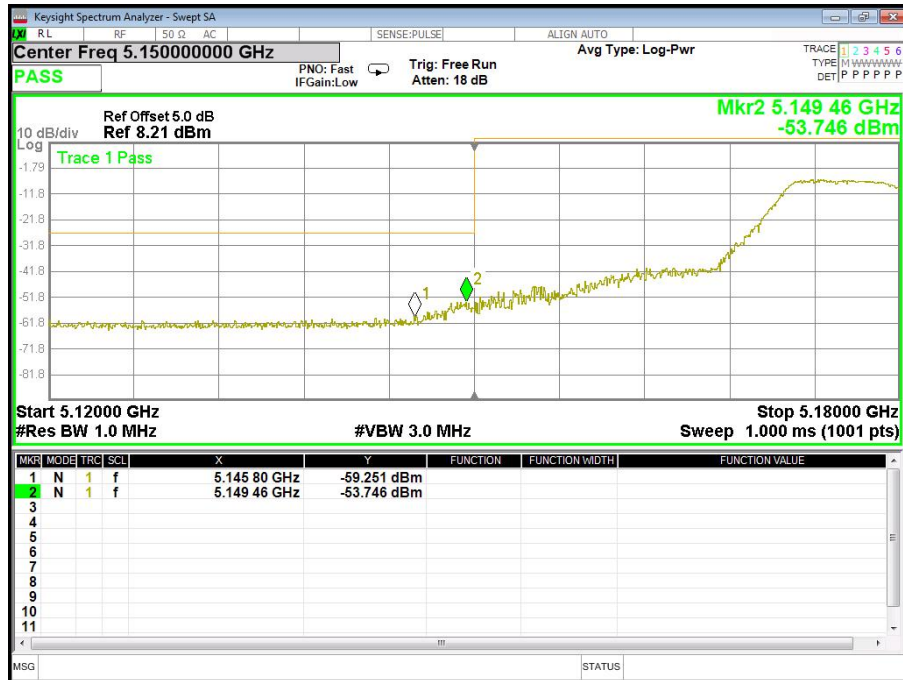
U-NII-3 802.11a left side



U-NII-3 802.11a right side



U-NII-1 802.11n(HT20) left side



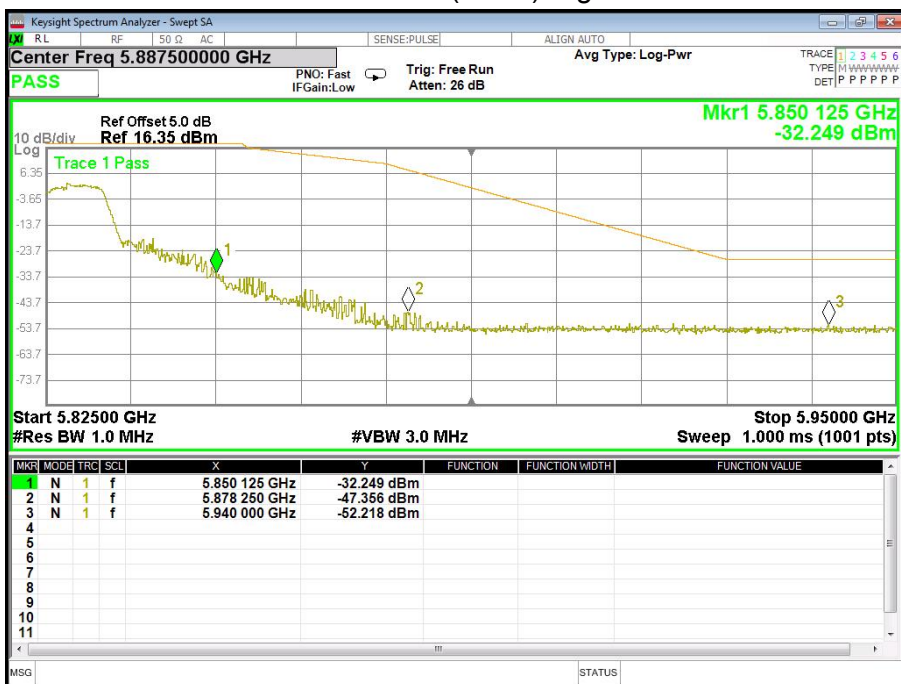
U-NII-1 802.11n(HT20) Right side



U-NII-3 802.11n(HT20) left side



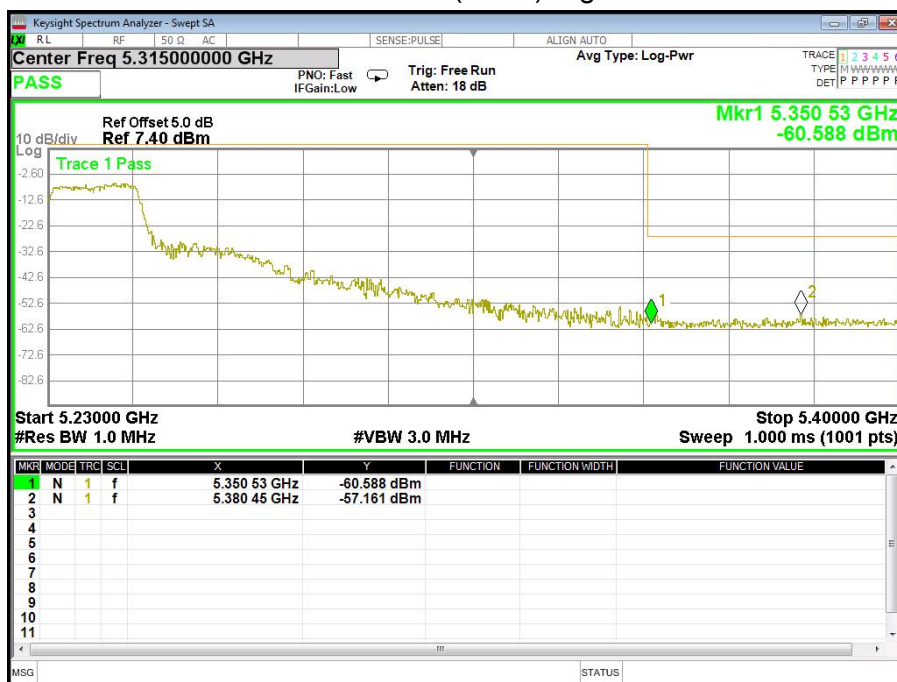
U-NII-3 802.11n(HT20) Right side



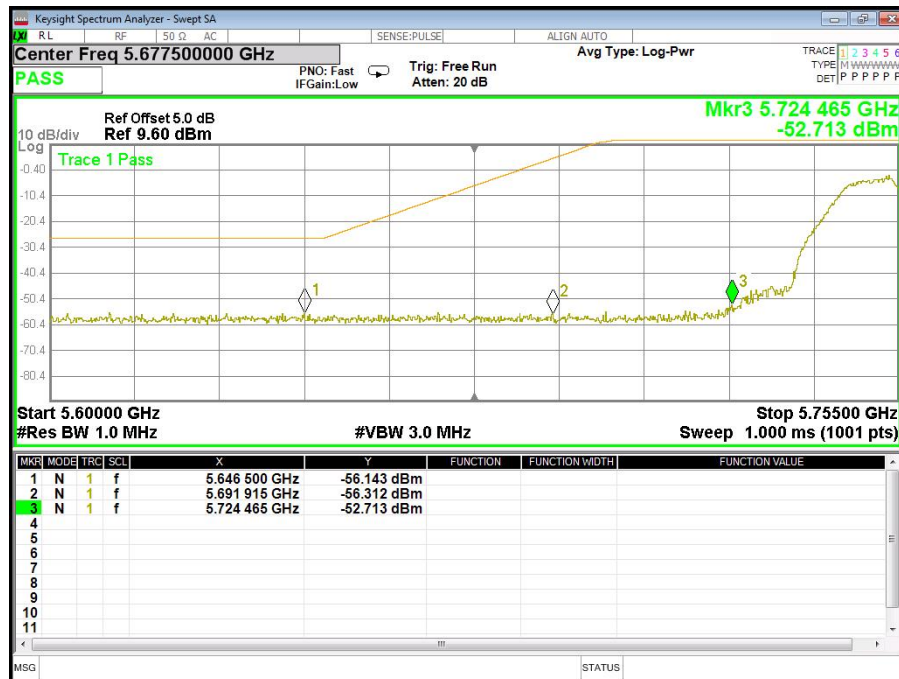
U-NII-1 802.11n(HT40) left side



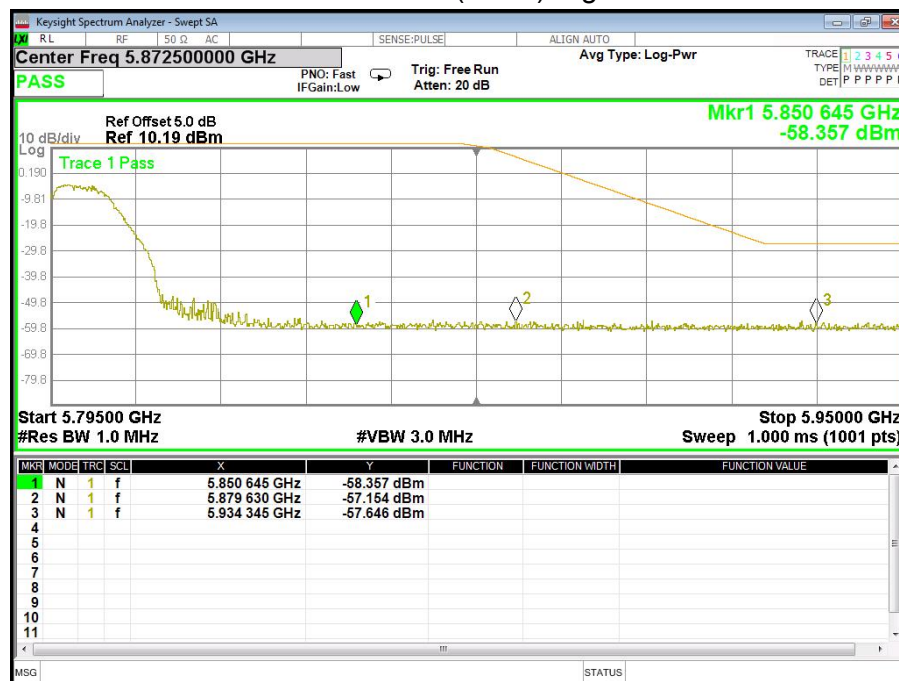
U-NII-1 802.11n(HT40) Right side



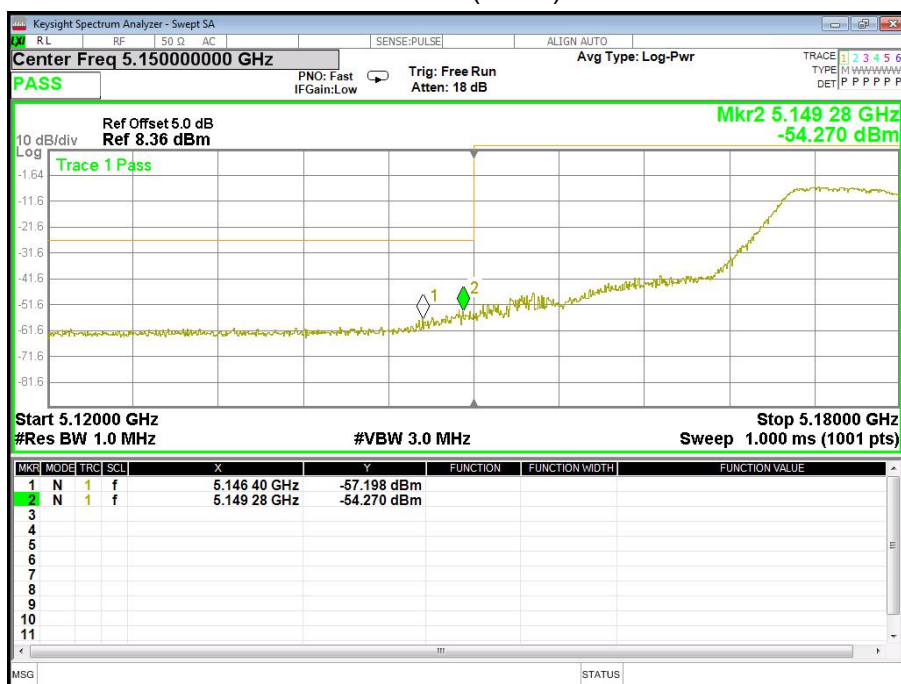
U-NII-3 802.11n(HT40) left side



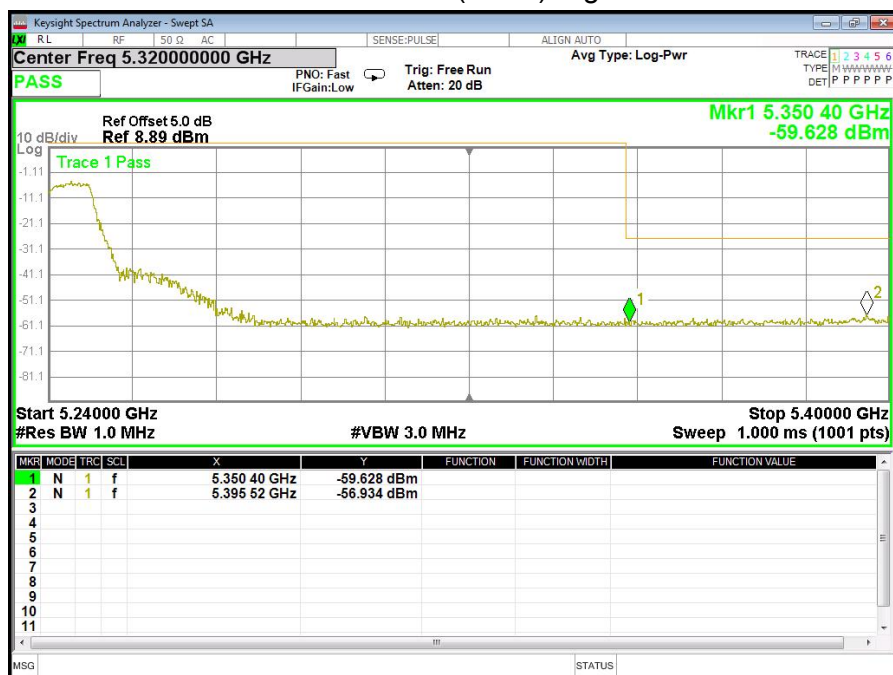
U-NII-3 802.11n(HT40) Right side



U-NII-1 802.11ac(HT20) left side



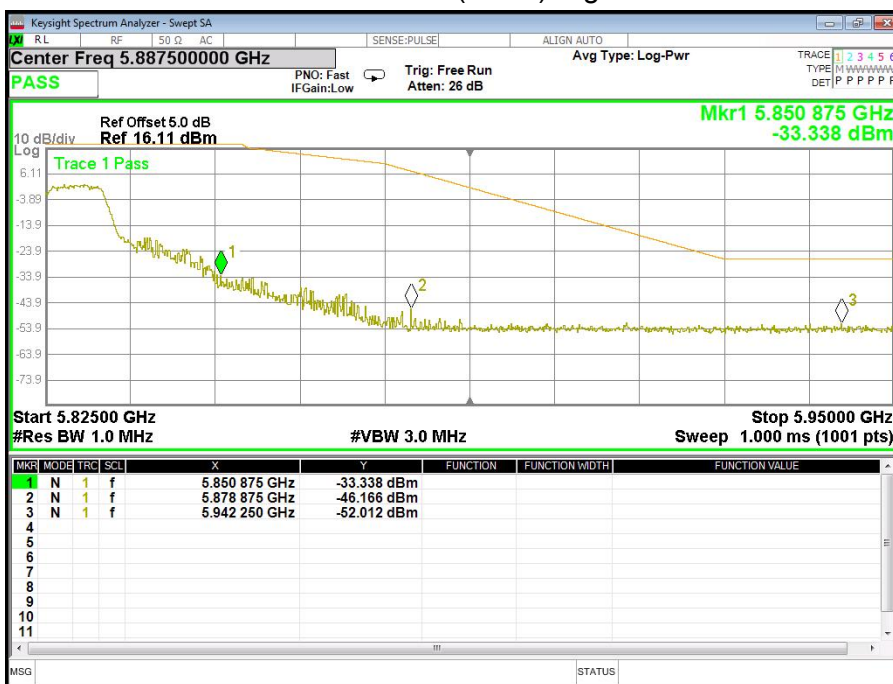
U-NII-1 802.11ac(HT20) Right side



U-NII-3 802.11ac(HT20) left side



U-NII-3 802.11ac(HT20) Right side



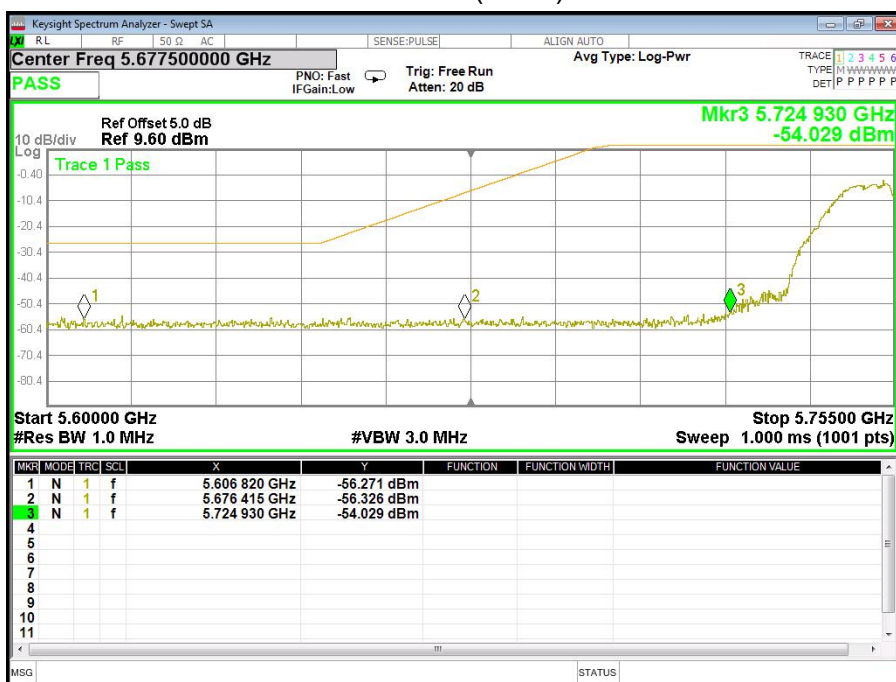
U-NII-1 802.11ac(HT40) left side



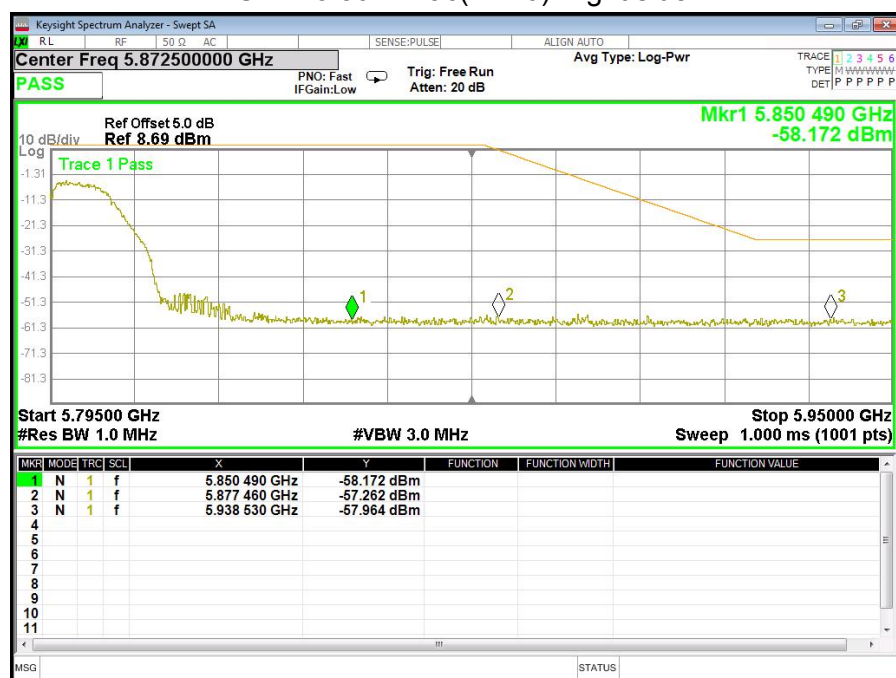
U-NII-1 802.11ac(HT40) Right side



U-NII-3 802.11ac(HT40) left side



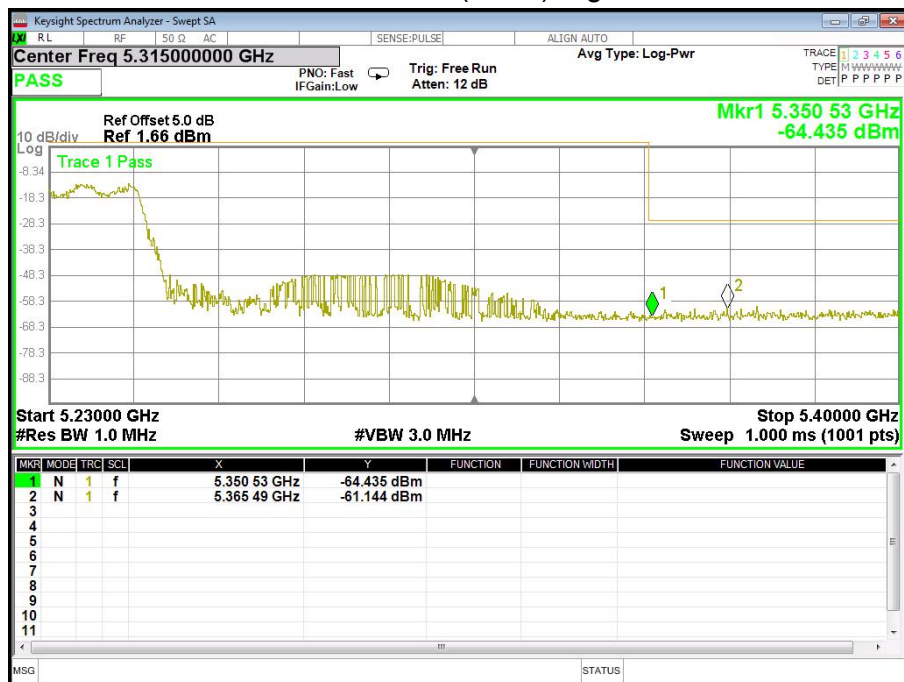
U-NII-3 802.11ac(HT40) Right side



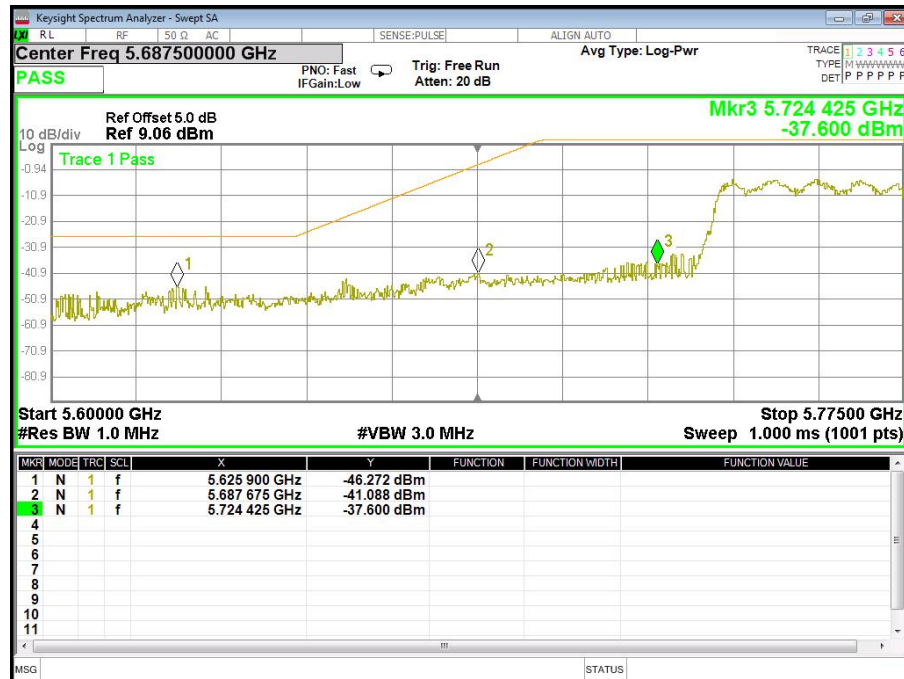
U-NII-1 802.11ac(HT80) left side



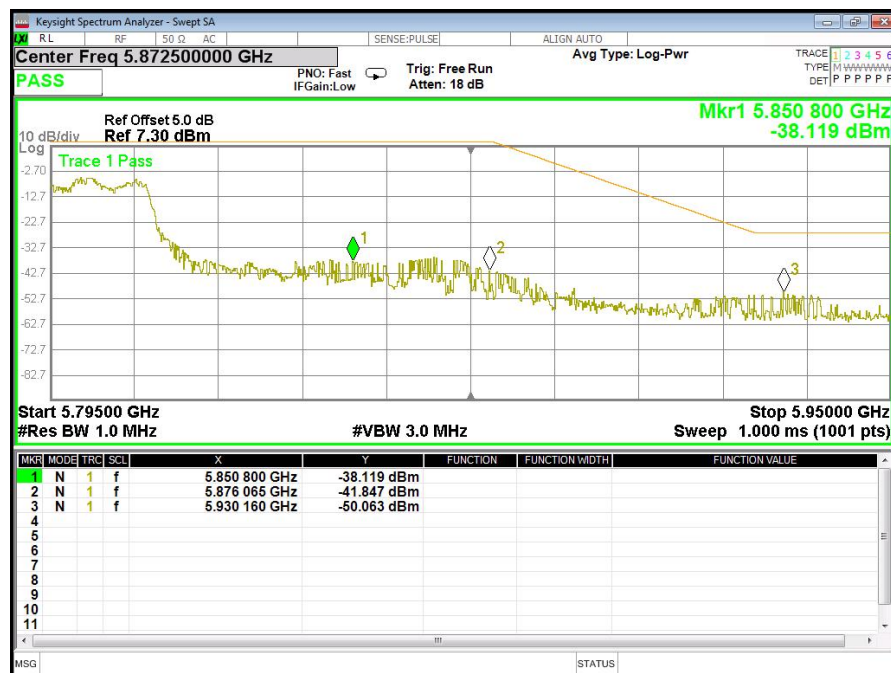
U-NII-1 802.11ac(HT80) Right side



U-NII-3 802.11ac(HT80) left side

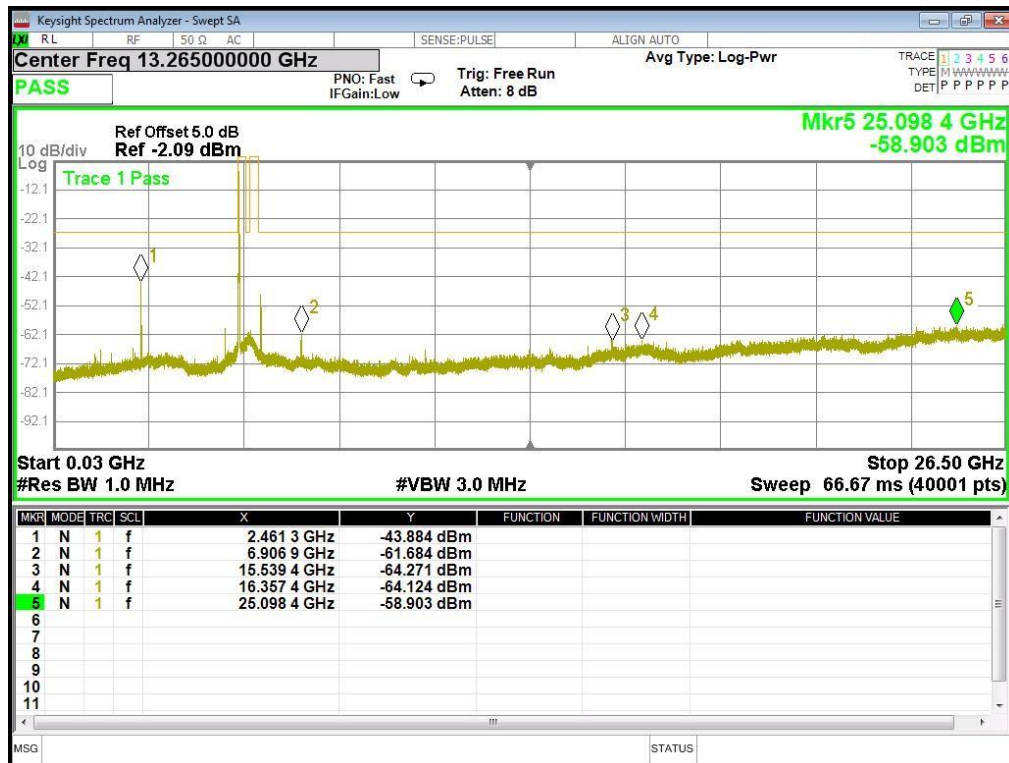


U-NII-3 802.11ac(HT80) Right side

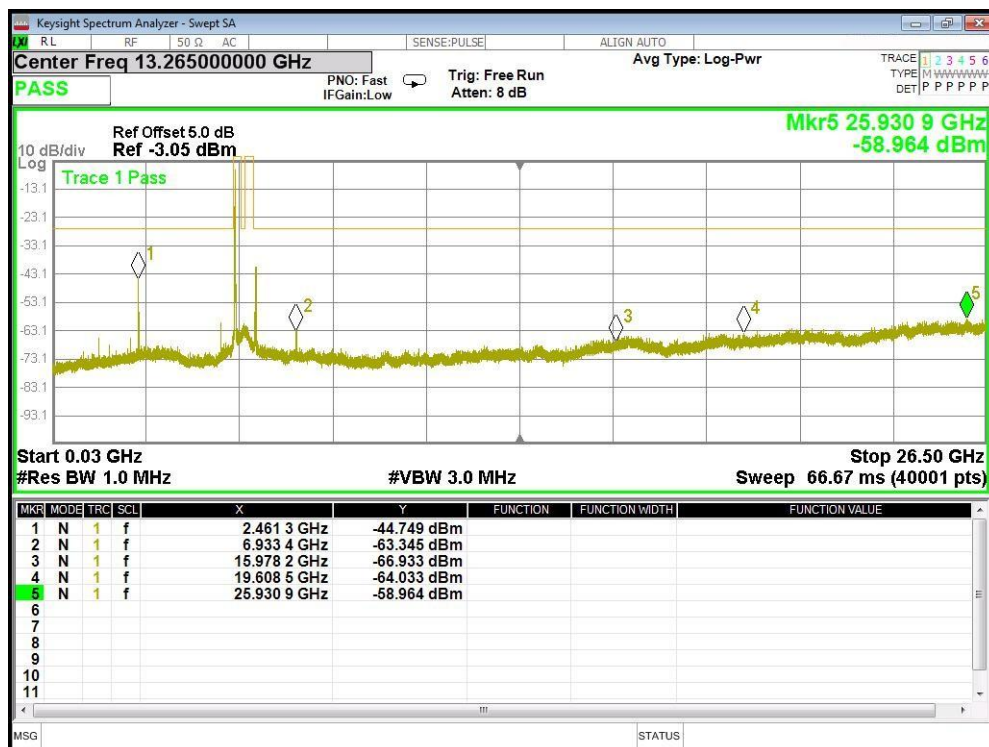


conducted spurious

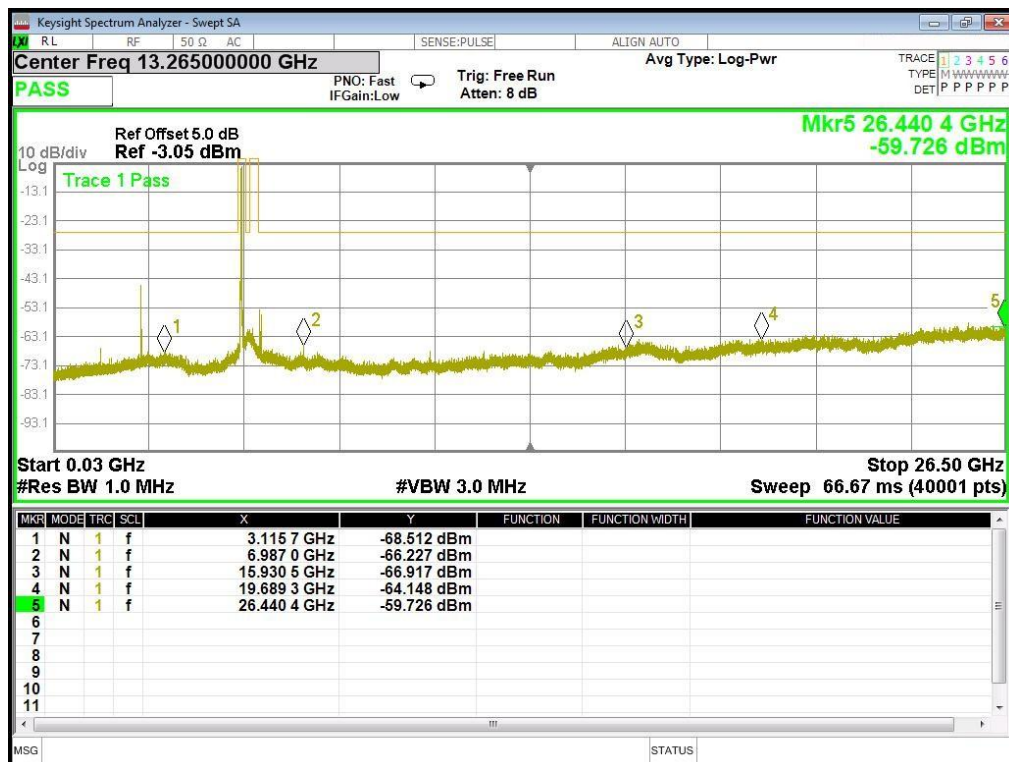
U-NII-1 802.11a Low CH



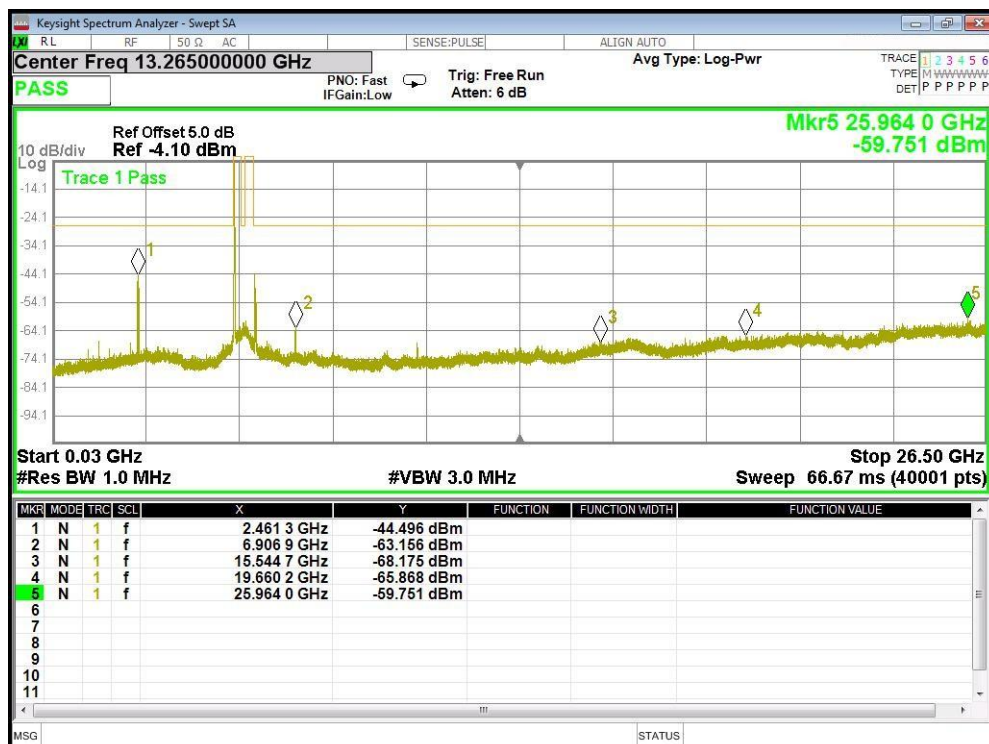
U-NII-1 802.11a Middle CH



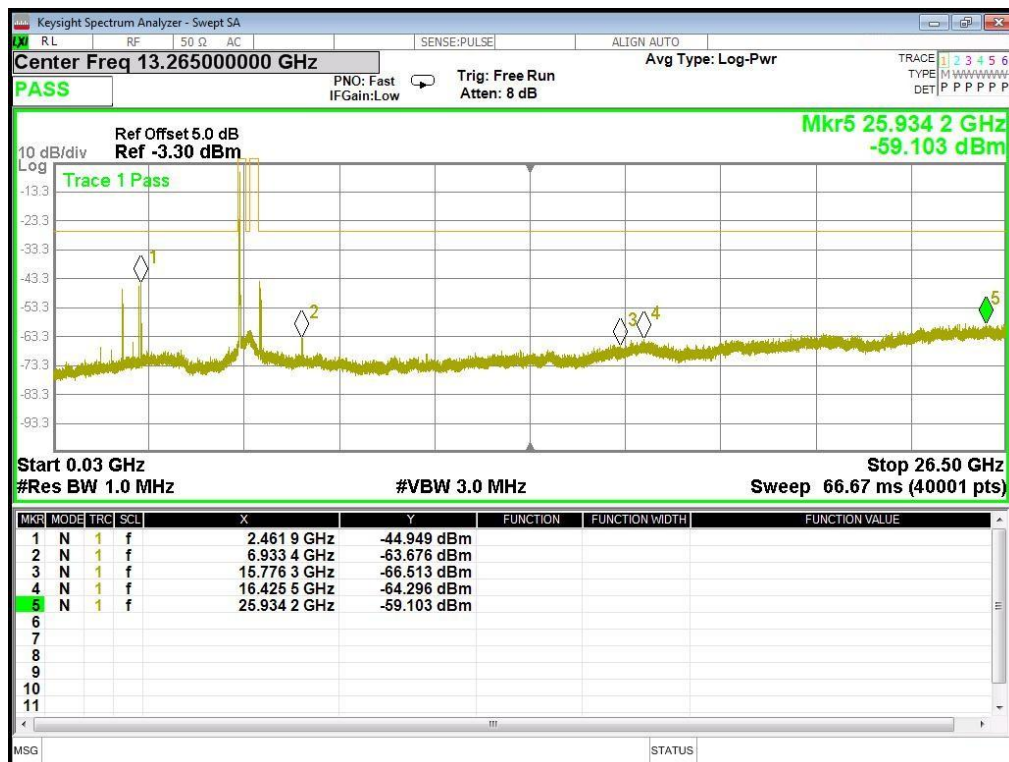
U-NII-1 802.11a High CH



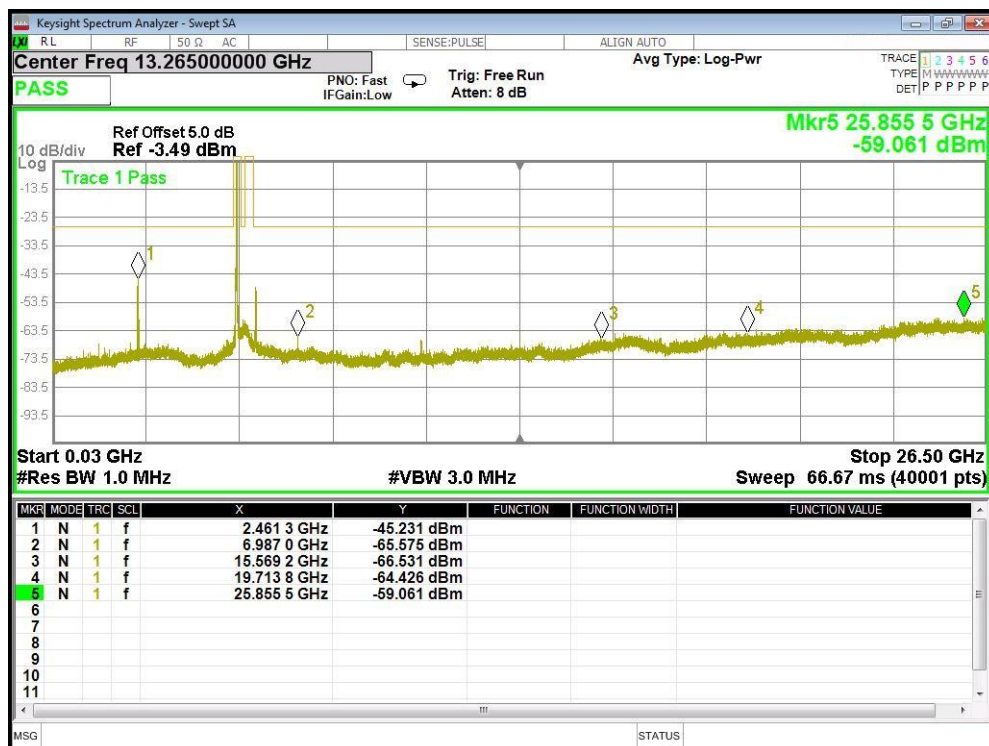
U-NII-1 802.11n(HT20) Low CH



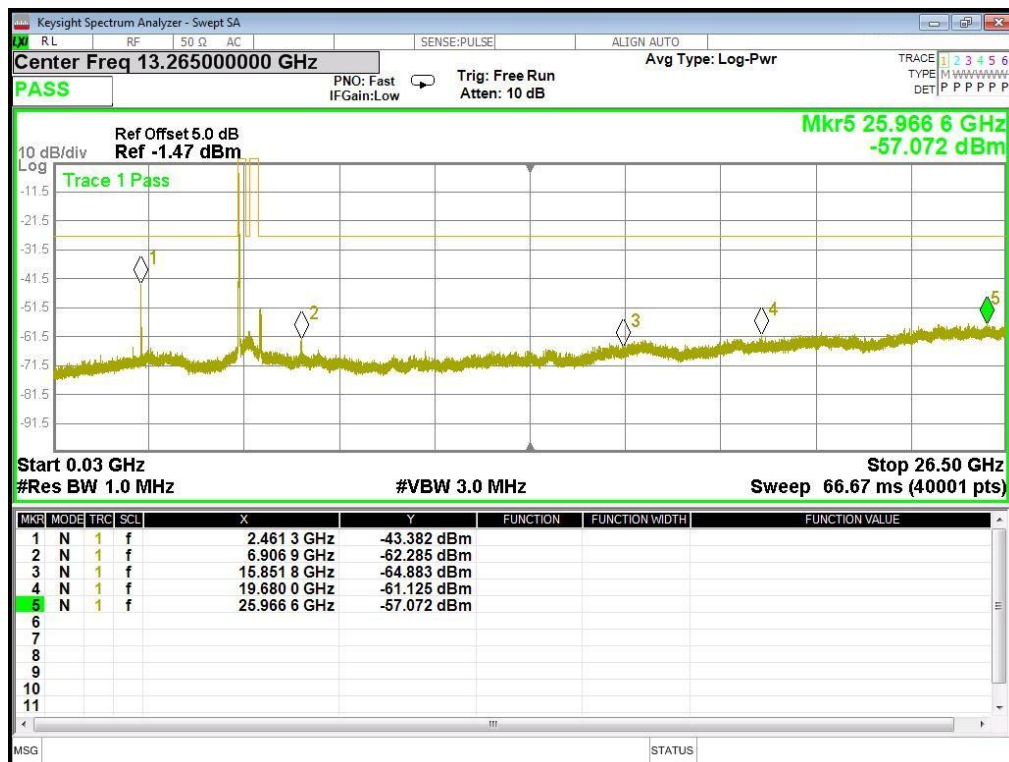
U-NII-1 802.11n(HT20) Middle CH



U-NII-1 802.11n(HT20) High CH



U-NII-1 802.11ac(HT20) Low CH



U-NII-1 802.11ac(HT20) Middle CH

