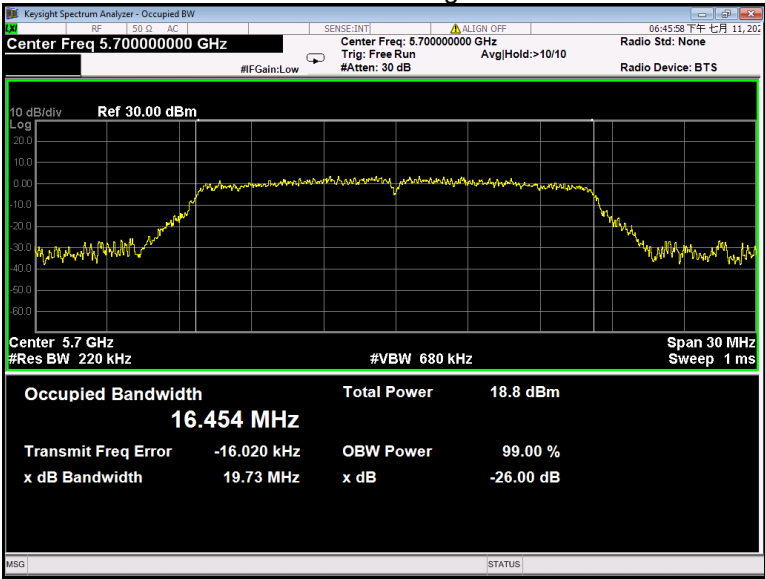
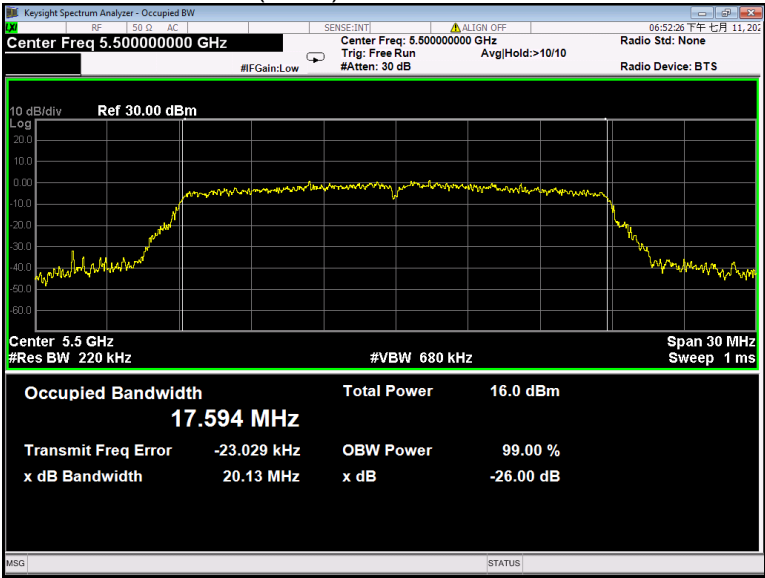


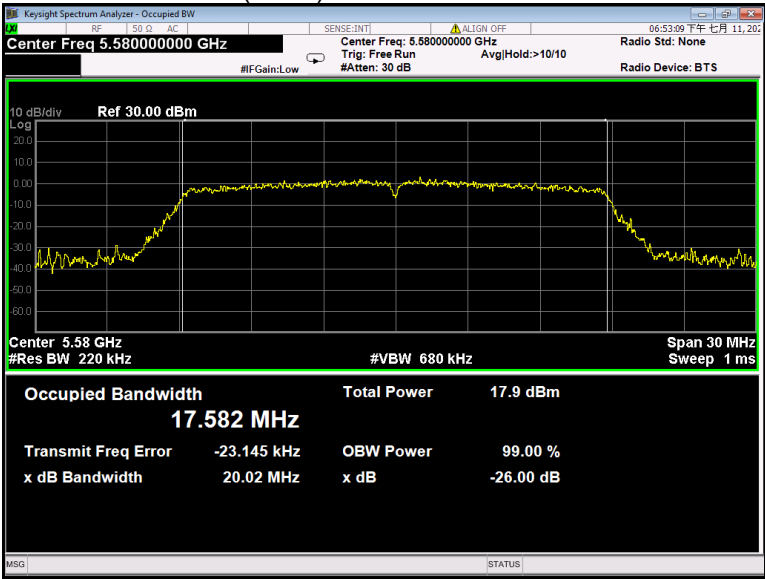
802.11a U-NII-2C High channel



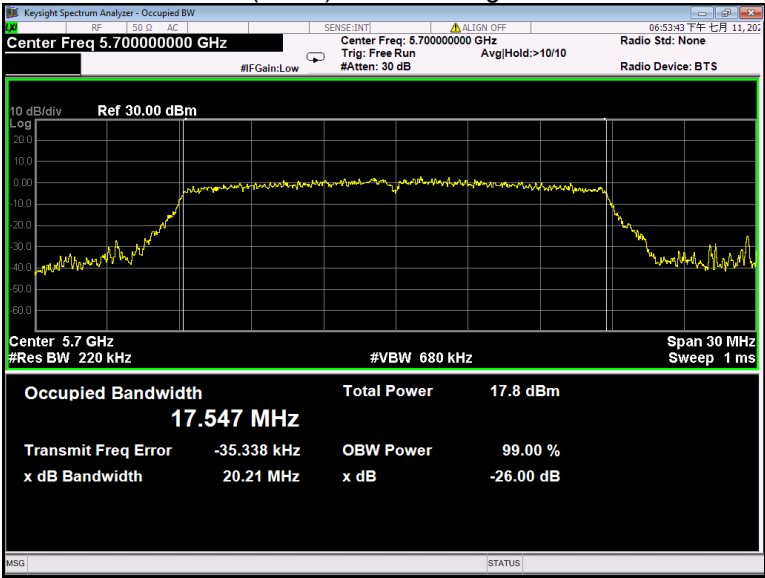
802.11n(HT20) U-NII-2C Low channel



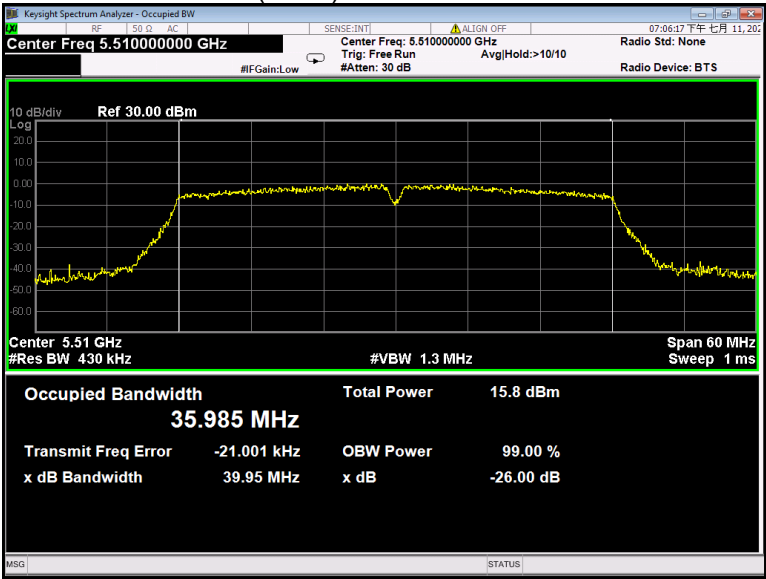
802.11n(HT20) U-NII-2C Middle channel



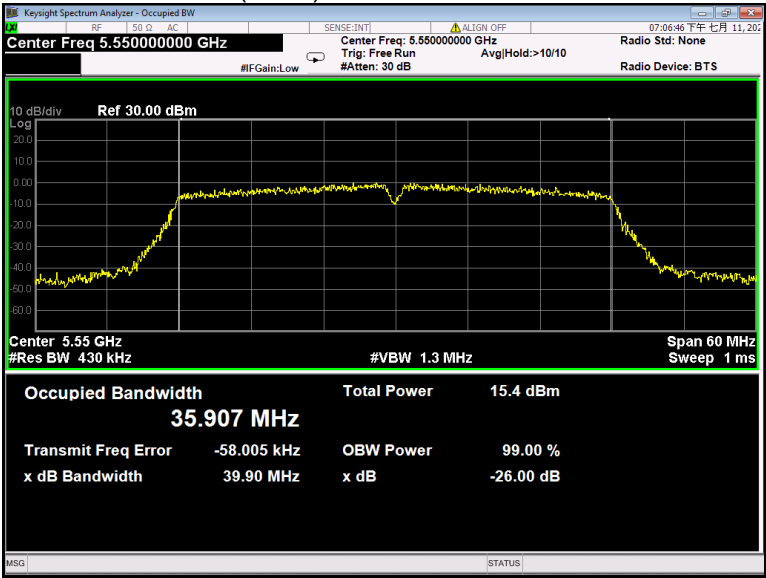
802.11n(HT20) U-NII-2C High channel

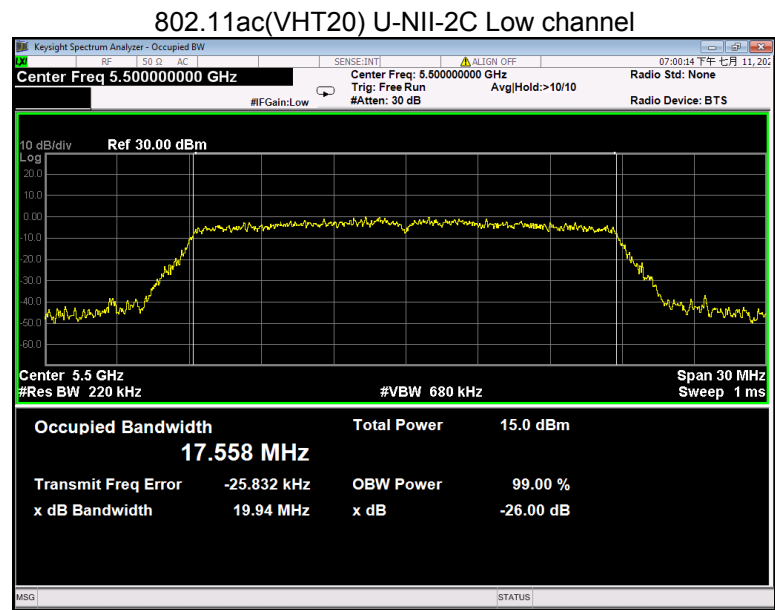
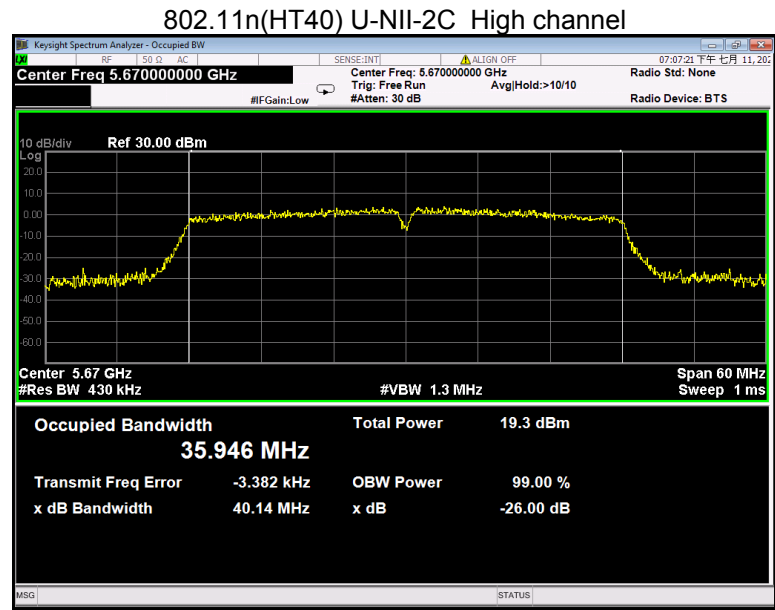


802.11n(HT40) U-NII-2C Low channel

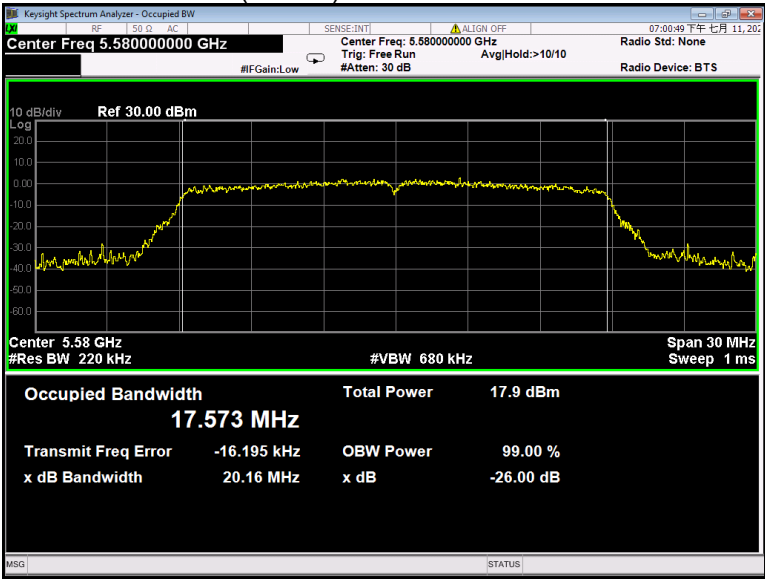


802.11n(HT40) U-NII-2C Middle channel

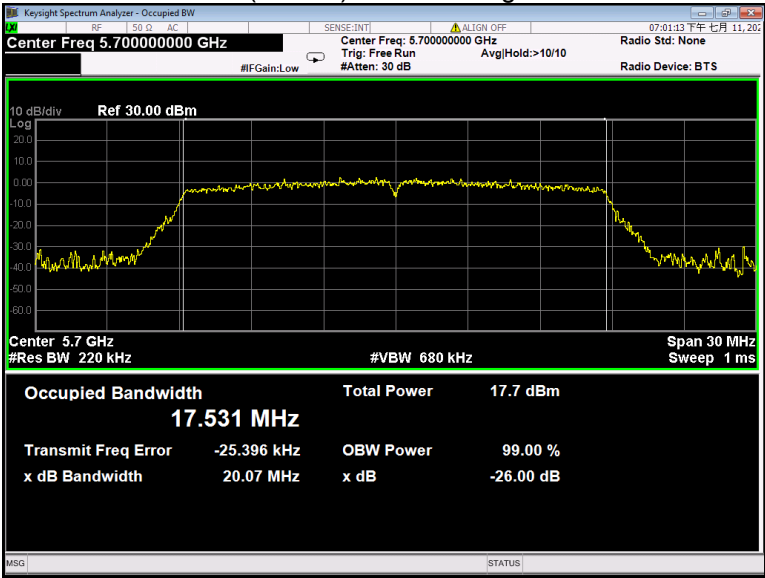




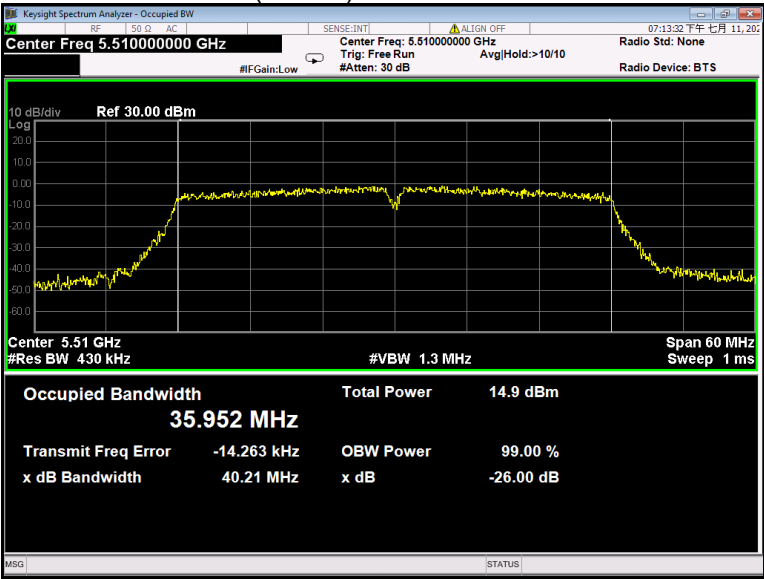
802.11ac(VHT20) U-NII-2C Middle channel



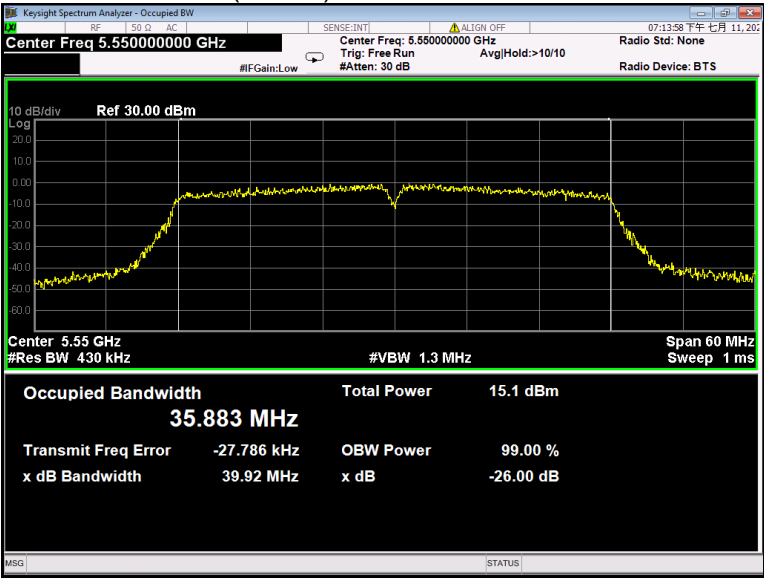
802.11ac(VHT20) U-NII-2C High channel



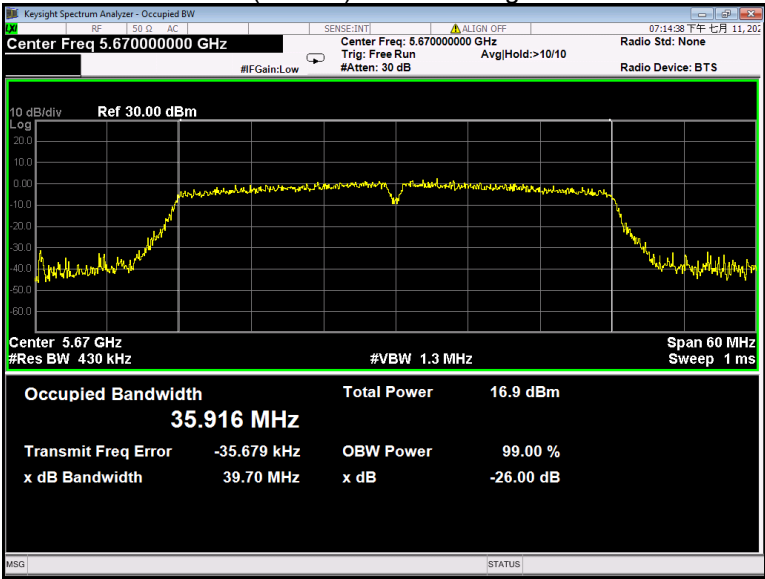
802.11ac(VHT40) U-NII-2C Low channel



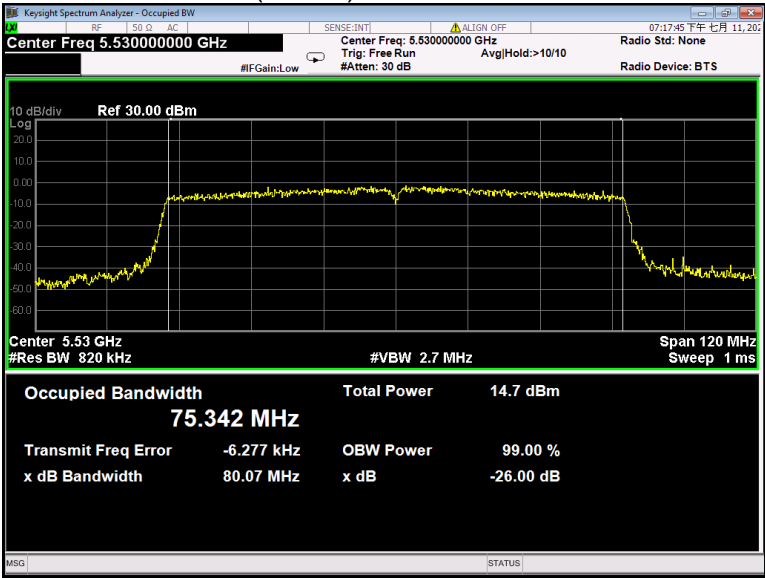
02.11ac(VHT40) U-NII-2C Middle channel



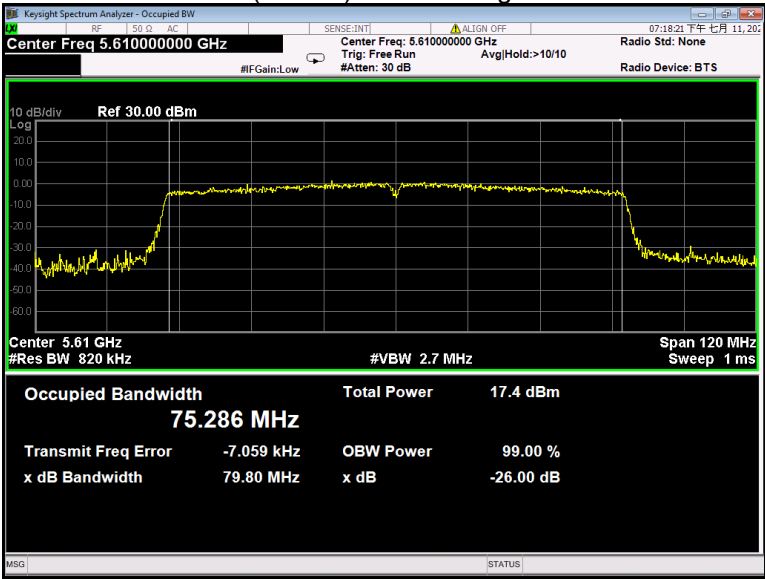
802.11ac(VHT40) U-NII-2C High channel



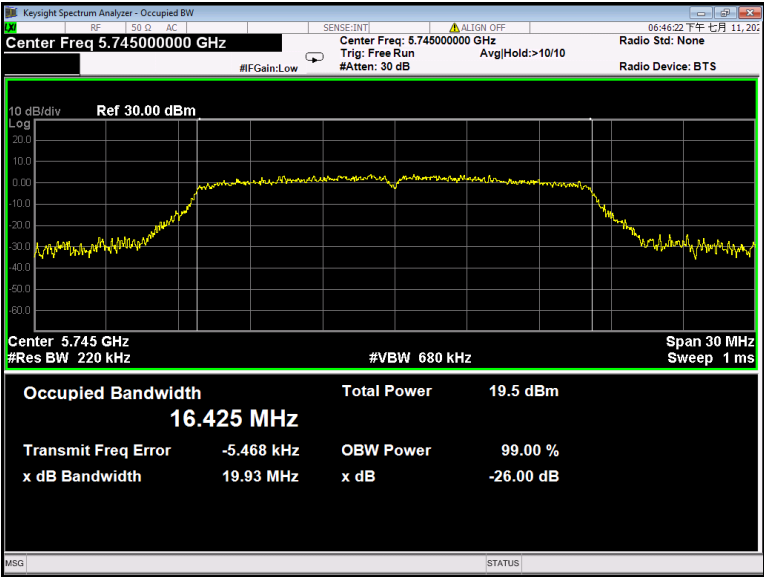
802.11ac(VHT80) U-NII-2C Low channel



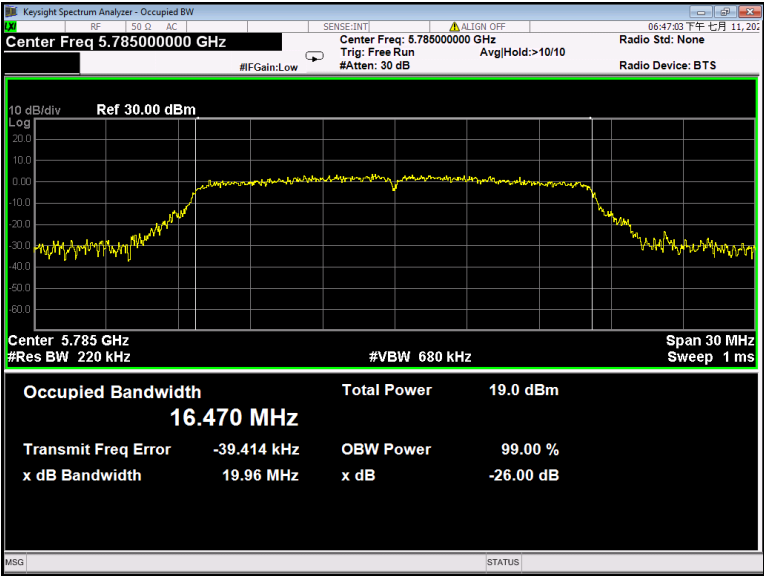
802.11ac(VHT80) U-NII-2C High channel



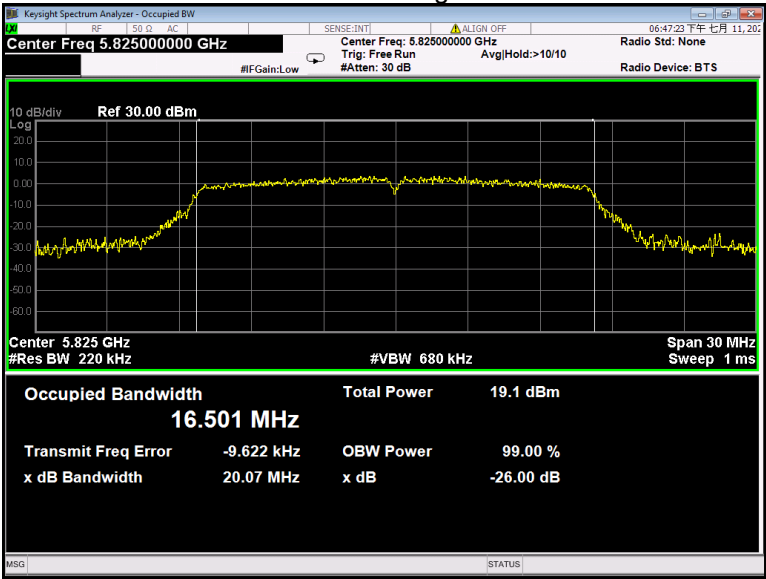
99% Occupied Bandwidth
802.11a U-NII-3 Low channel



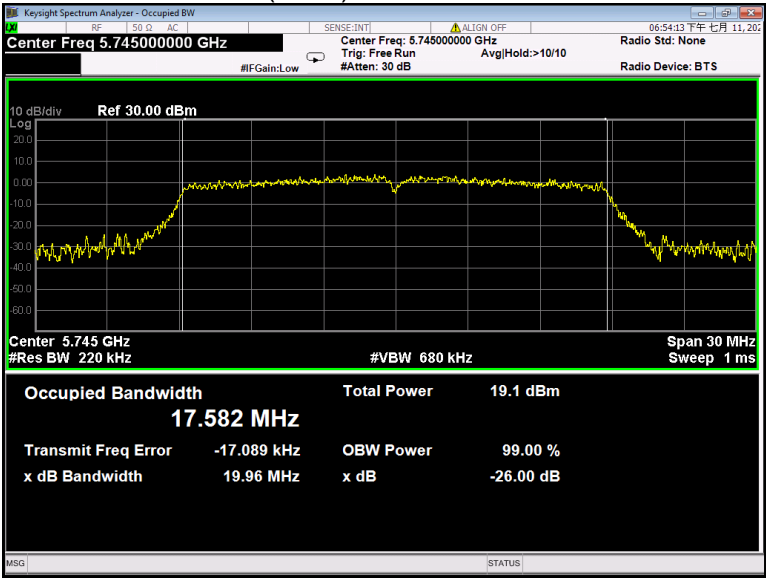
802.11a U-NII-3 Middle channel



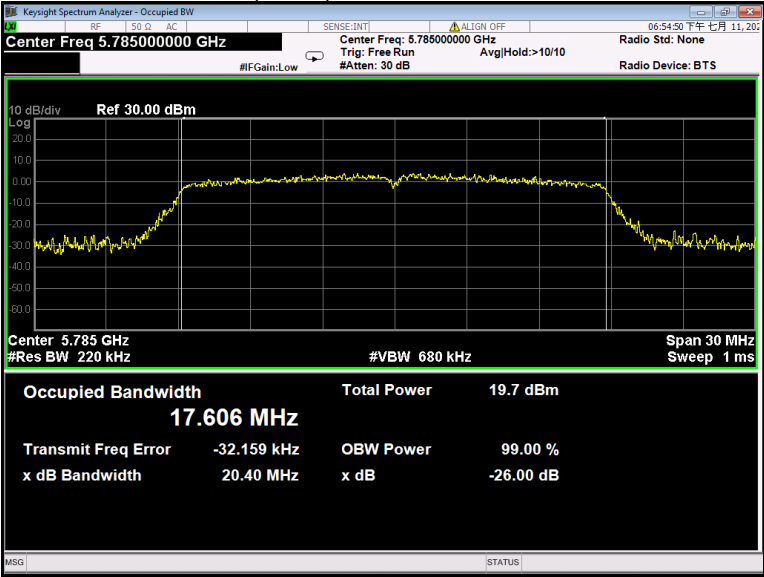
802.11a U-NII-3 High channel



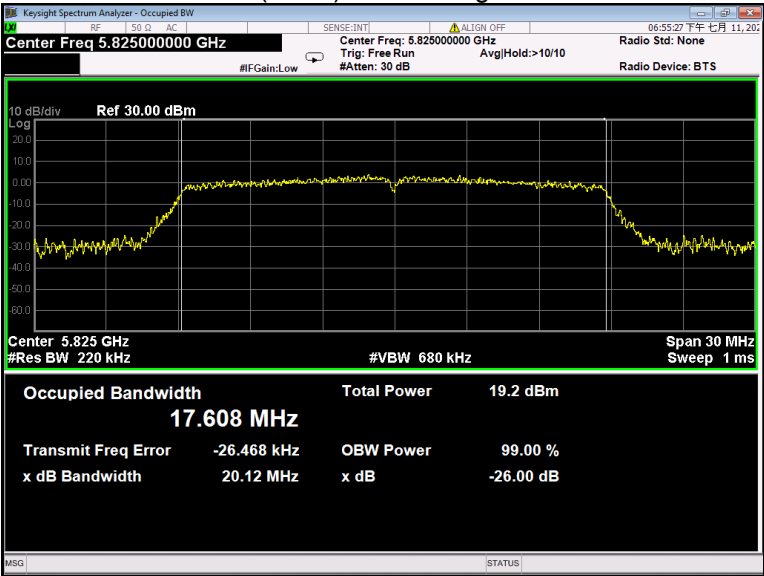
802.11n(HT20) U-NII-3 Low channel



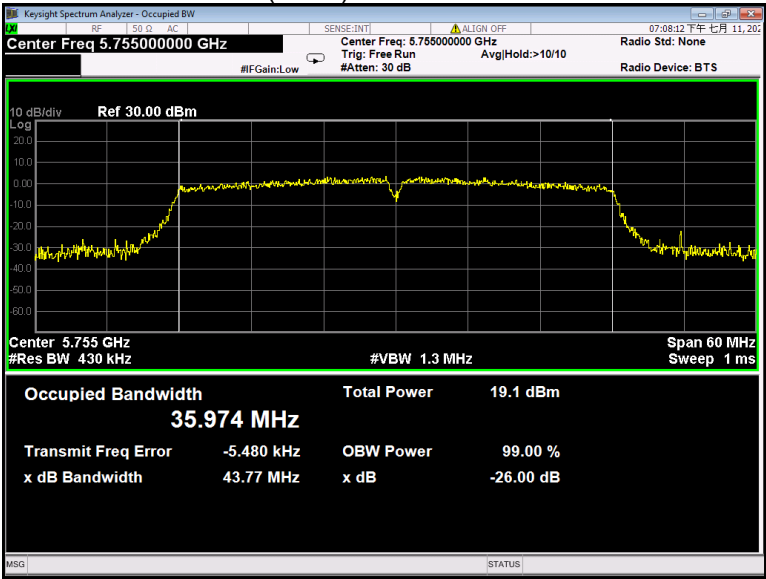
802.11n(HT20) U-NII-3 Middle channel



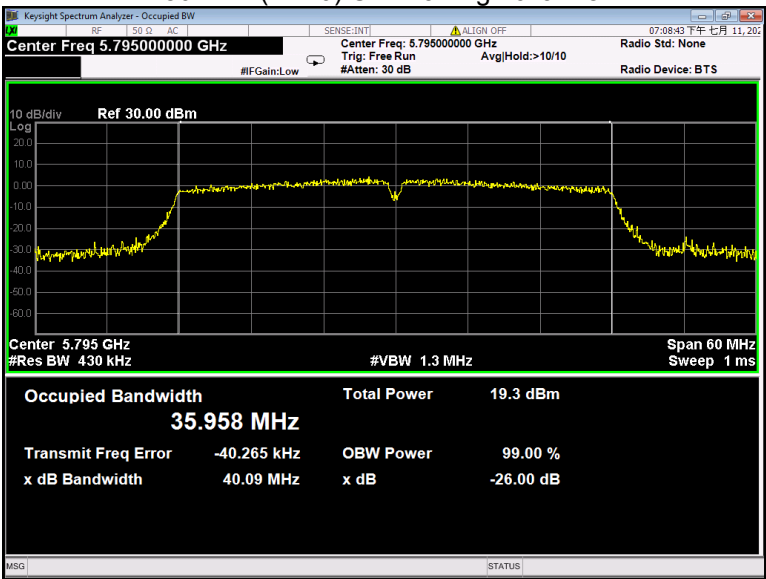
802.11n(HT20) U-NII-3 High channel

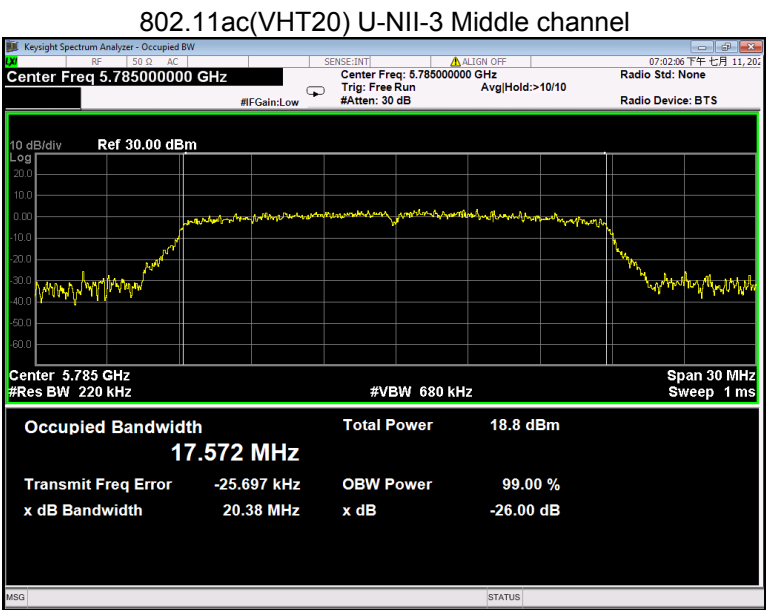
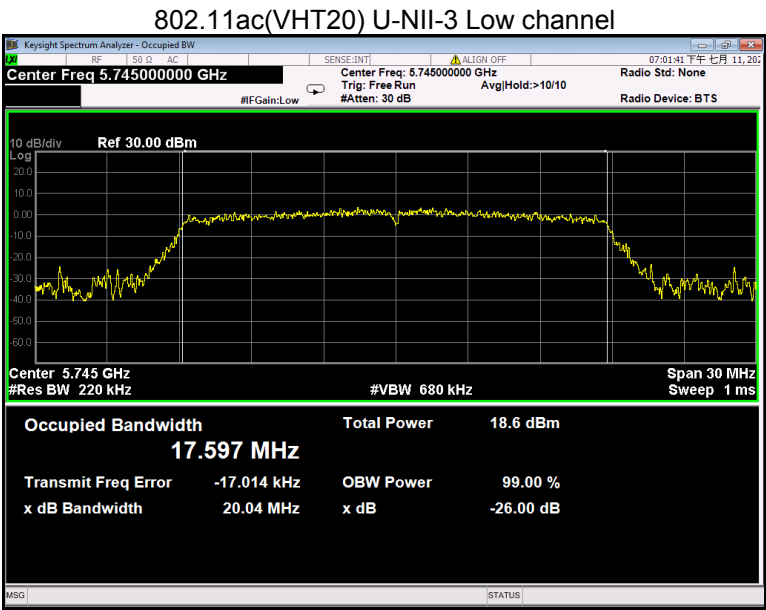


802.11n(HT40) U-NII-3 Low channel

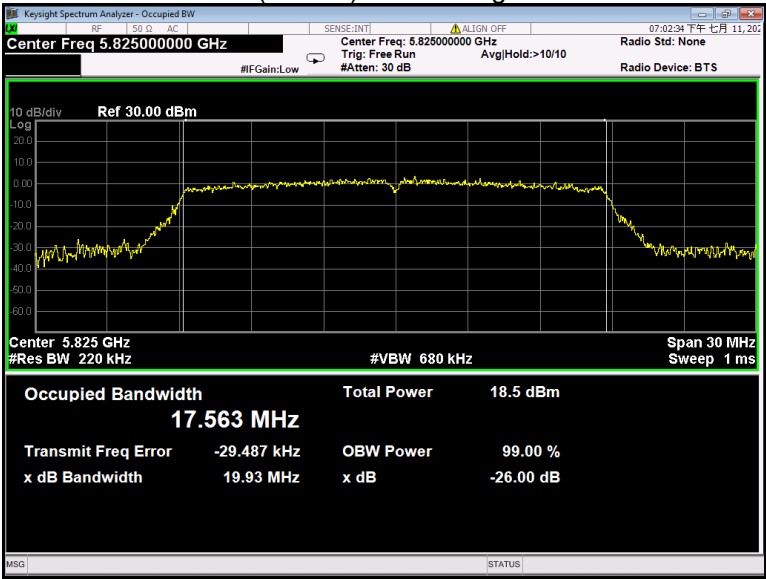


802.11n(HT40) U-NII-3 High channel

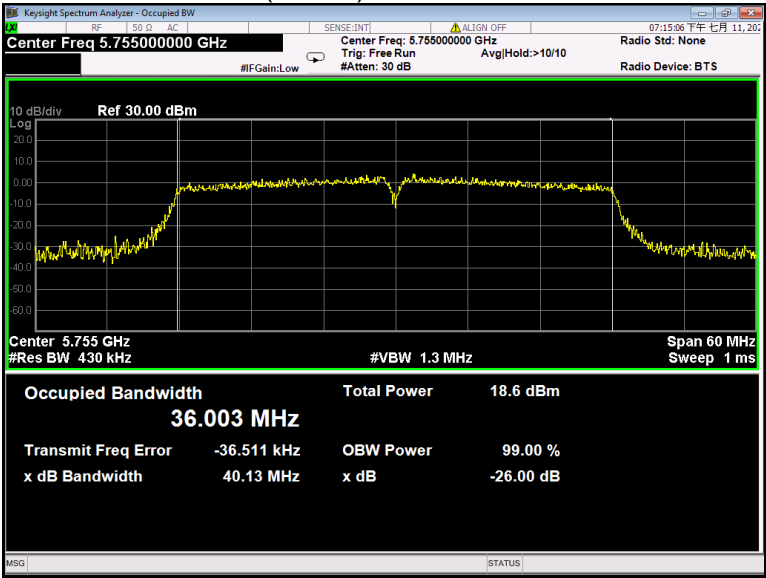




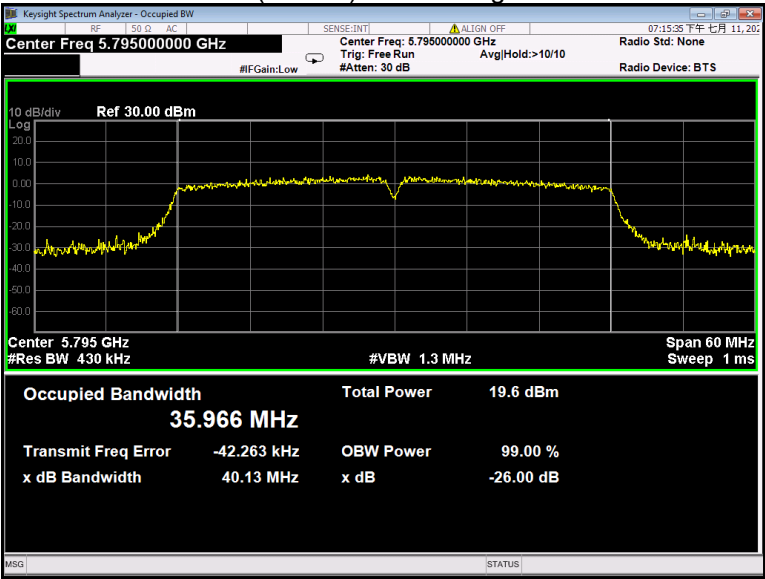
802.11ac(VHT20) U-NII-3 High channel



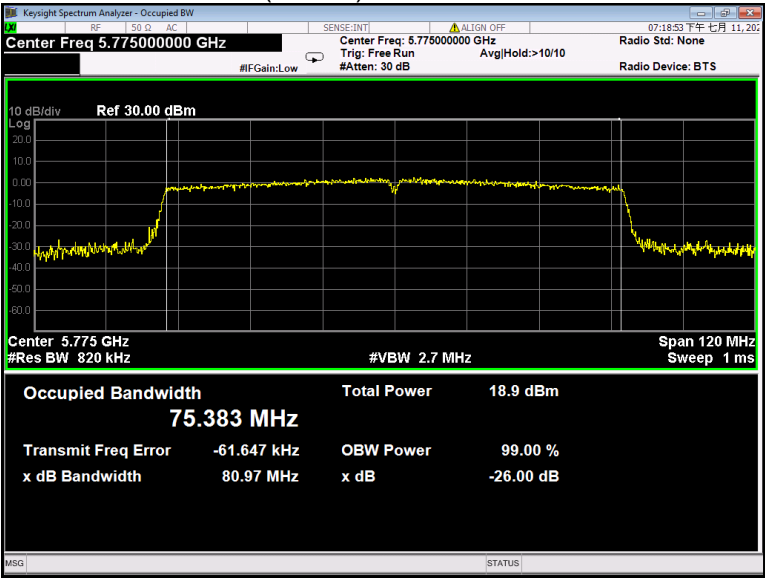
802.11ac(VHT40) U-NII-3 Low channel



802.11ac(VHT40) U-NII-3 High channel



802.11ac(VHT80) U-NII-3 Low channel



13 Conducted Output Power

Test Requirement:	FCC 47CFR Part 15 Section 15.407(a)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General U-NII Test Procedures New Rules v02r01 Section E
Test Limit:	For the band 5.15-5.25 GHz For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. For the band 5.725-5.850 GHz For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.
Test Result:	PASS Conducted output power= measurement power+10log(1/x)
Remark:	X is duty cycle=1, so $10\log(1/1)=0$ Conducted output power= measurement power

13.1 Test Procedure

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1 MHz.
- (iii) Set VBW $\geq$ 3 MHz.
- (iv) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.
- (vi) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle < 98%, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle $\geq$ 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run.”
- (viii) Trace average at least 100 traces in power averaging (rms) mode.
- (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

13.2 Test Result

Band	Operation mode	Channel	Maximum Conducted Output Power (dBm)	Maximum Conducted Output Power Limit (dBm)
U-NII-1	802.11a	Low	13.53	23.97
		Middle	13.64	23.97
		High	13.55	23.97
	802.11n(HT20)	Low	13.14	23.97
		Middle	13.10	23.97
		High	13.08	23.97
	802.11n(HT40)	Low	10.93	23.97
		Middle	/	23.97
		High	10.75	23.97
	802.11ac(VHT20)	Low	11.71	23.97
		Middle	11.84	23.97
		High	11.74	23.97
	802.11ac(VHT40)	Low	9.46	23.97
		Middle	/	23.97
		High	10.06	23.97
	802.11ac(VHT80)	Low	9.07	23.97
		Middle	/	23.97
		High	/	23.97

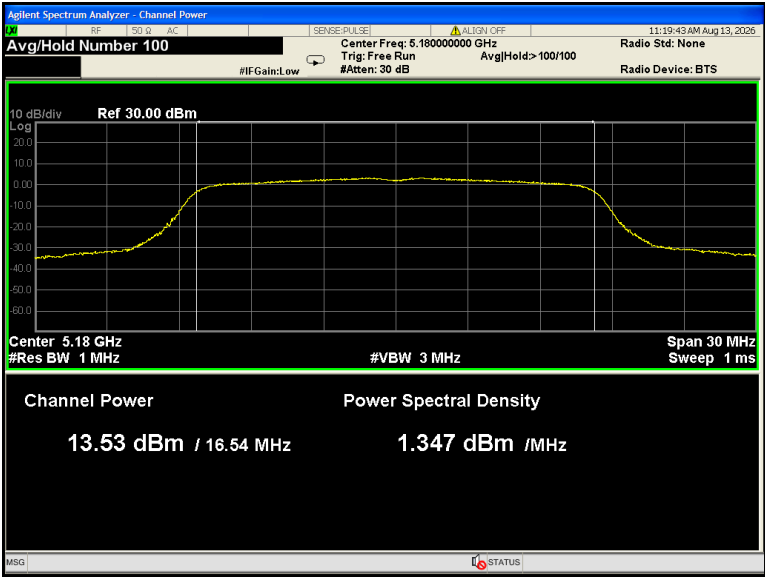
Band	Operation mode	Channel	Maximum Conducted Output Power (dBm)	Maximum Conducted Output Power Limit (dBm)
U-NII-2A	802.11a	Low	12.02	23.97
		Middle	12.05	23.97
		High	12.30	23.97
	802.11n(HT20)	Low	11.18	23.97
		Middle	11.41	23.97
		High	11.60	23.97
	802.11n(HT40)	Low	10.11	23.97
		Middle	/	23.97
		High	10.44	23.97
	802.11ac(VHT20)	Low	10.16	23.97
		Middle	10.26	23.97
		High	10.53	23.97
	802.11ac(VHT40)	Low	9.06	23.97
		Middle	/	23.97
		High	9.31	23.97
	802.11ac(VHT80)	Low	9.11	23.97
		Middle	/	23.97
		High	/	23.97

Band	Operation mode	Channel	Maximum Conducted Output Power (dBm)	Maximum Conducted Output Power Limit (dBm)
U-NII-2C	802.11a	Low	10.15	23.97
		Middle	12.30	23.97
		High	12.29	23.97
	802.11n(HT20)	Low	9.01	23.97
		Middle	11.08	23.97
		High	11.09	23.97
	802.11n(HT40)	Low	9.07	23.97
		Middle	8.92	23.97
		High	11.04	23.97
	802.11ac(VHT20)	Low	8.25	23.97
		Middle	10.32	23.97
		High	10.79	23.97
	802.11ac(VHT40)	Low	8.31	23.97
		Middle	8.34	23.97
		High	10.59	23.97
	802.11ac(VHT80)	Low	8.14	23.97
		Middle	/	23.97
		High	10.17	23.97

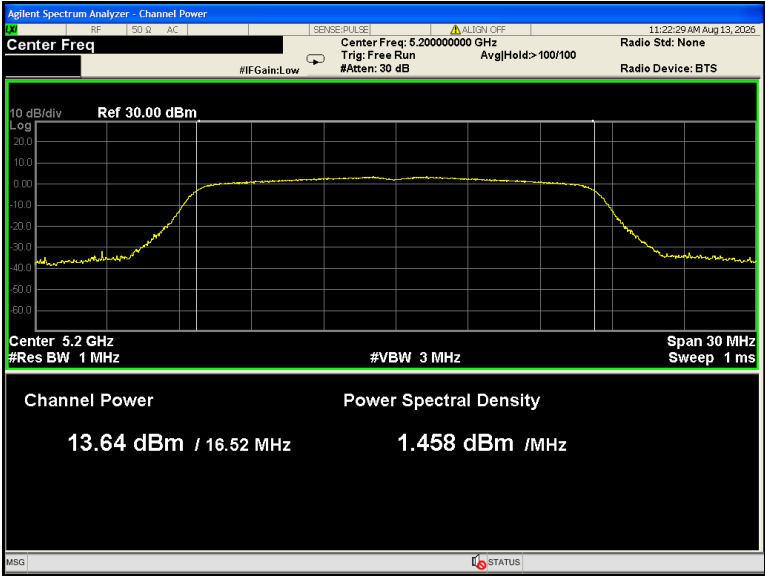
Band	Operation mode	Channel	Maximum Conducted Output Power (dBm)	Maximum Conducted Output Power Limit (dBm)
U-NII-3	802.11a	Low	12.73	30.00
		Middle	12.78	30.00
		High	12.77	30.00
	802.11n(HT20)	Low	12.59	30.00
		Middle	12.60	30.00
		High	12.62	30.00
	802.11n(HT40)	Low	12.30	30.00
		Middle	/	30.00
		High	12.46	30.00
	802.11ac(VHT20)	Low	12.19	30.00
		Middle	12.11	30.00
		High	12.14	30.00
	802.11ac(VHT40)	Low	12.12	30.00
		Middle	/	30.00
		High	11.95	30.00
	802.11ac(VHT80)	Low	11.74	30.00
		Middle	/	30.00
		High	/	30.00

Test result plots shown as follows:

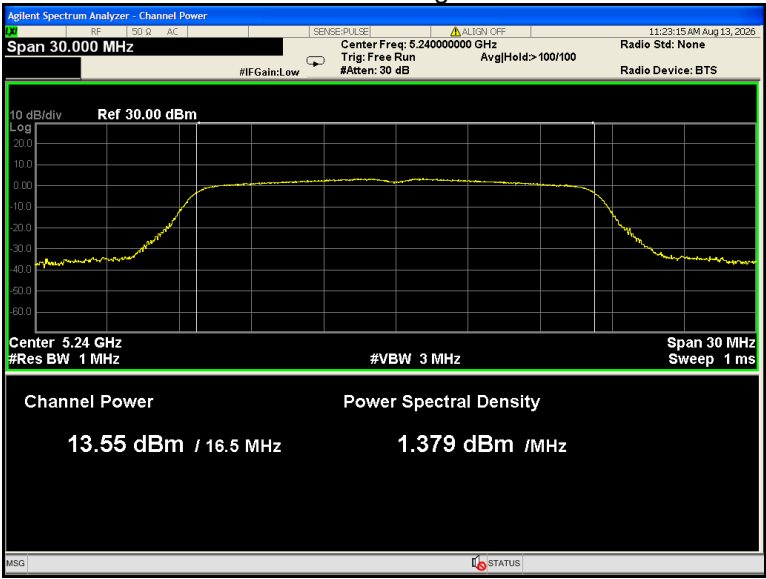
802.11a U-NII-1 Low channel



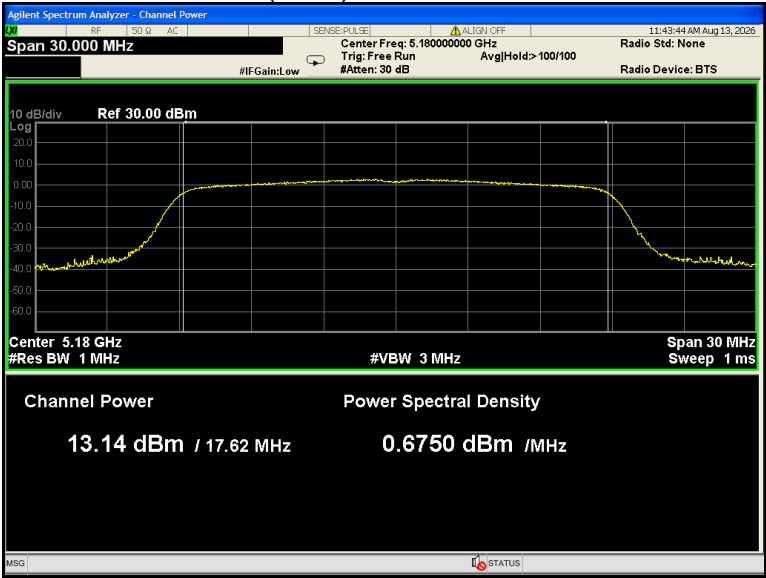
802.11a U-NII-1 Middle channel



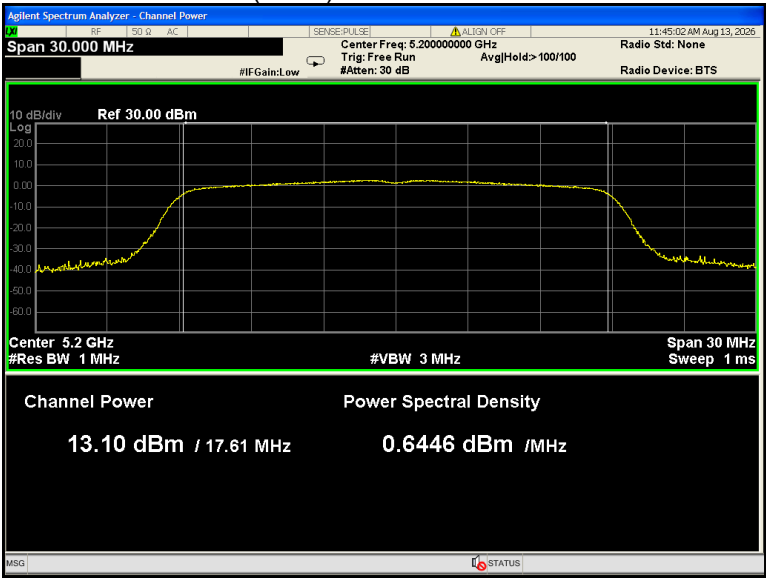
802.11a U-NII-1 High channel



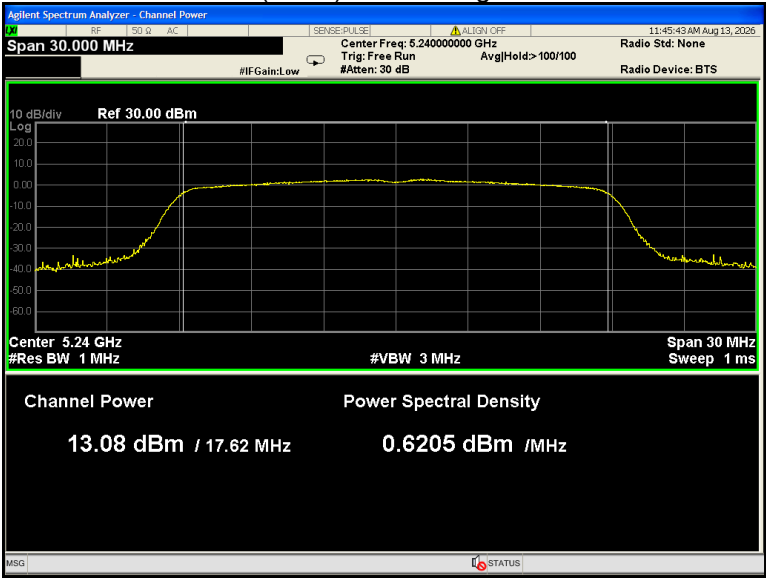
802.11n(HT20) U-NII-1 Low channel



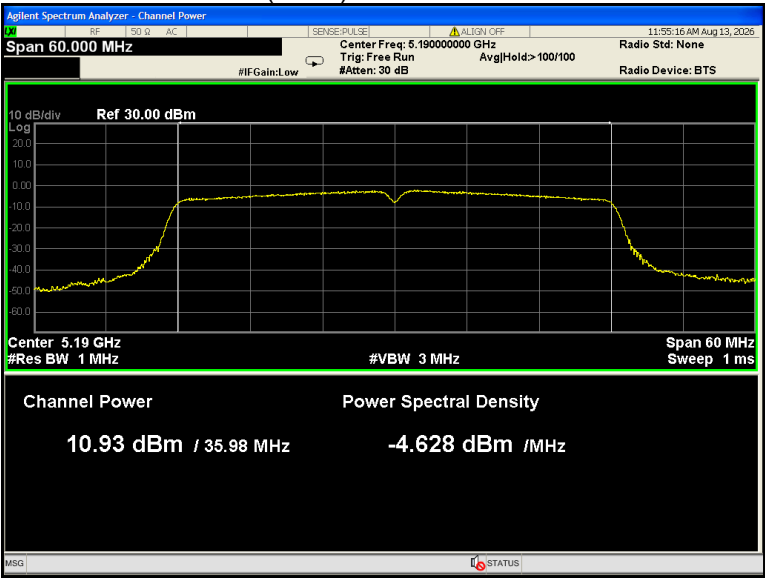
802.11n(HT20) U-NII-1 Middle channel



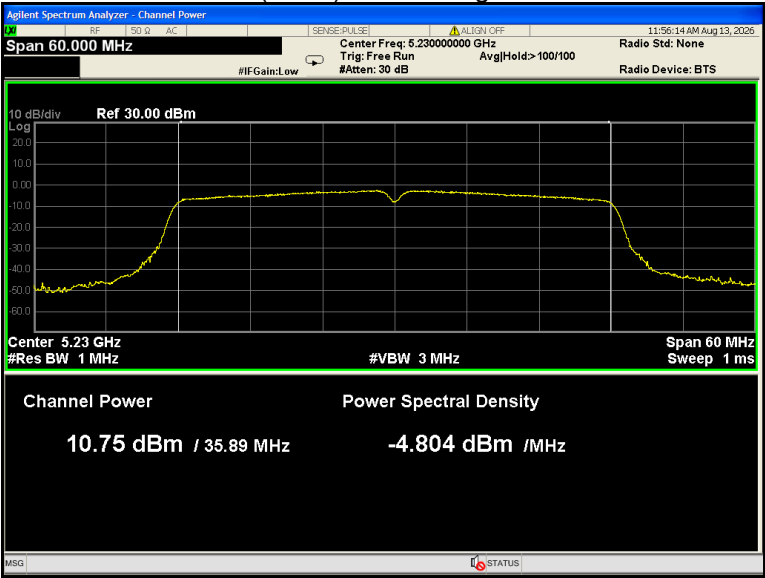
802.11n(HT20) U-NII-1 High channel



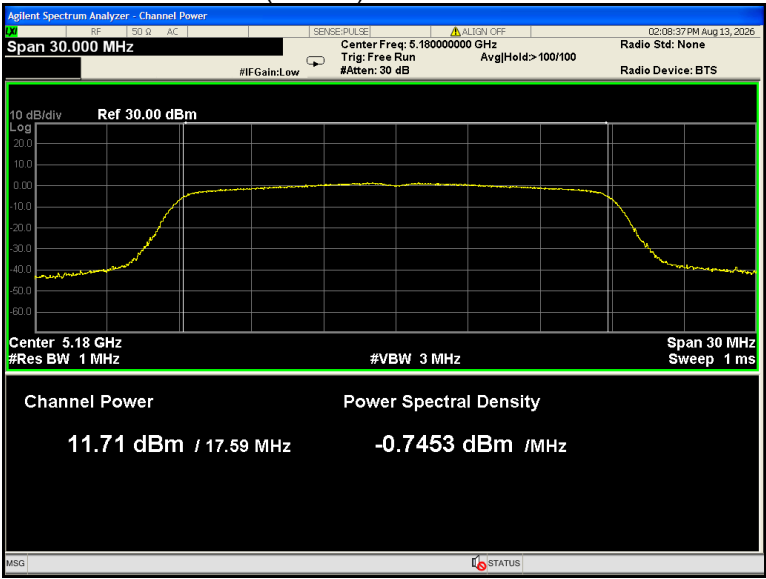
802.11n(HT40) U-NII-1 Low channel



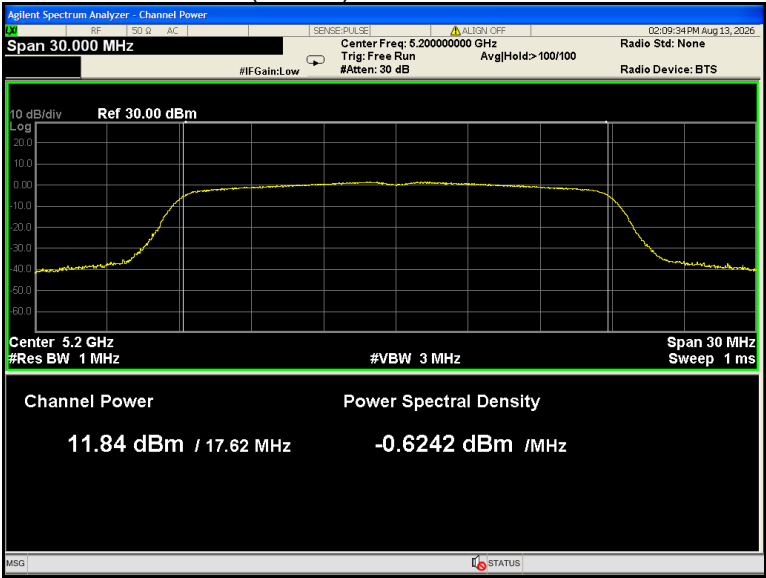
802.11n(HT40) U-NII-1 High channel



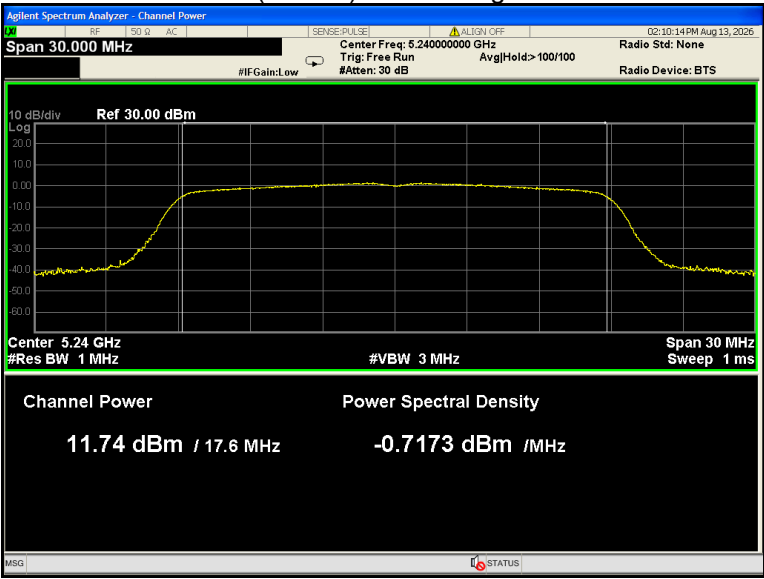
802.11ac(VHT20) U-NII-1 Low channel



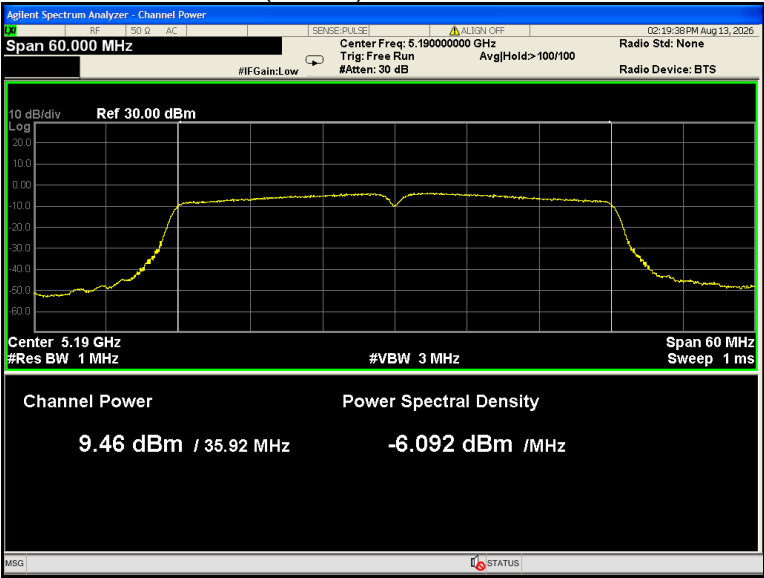
802.11ac(VHT20) U-NII-1 Middle channel



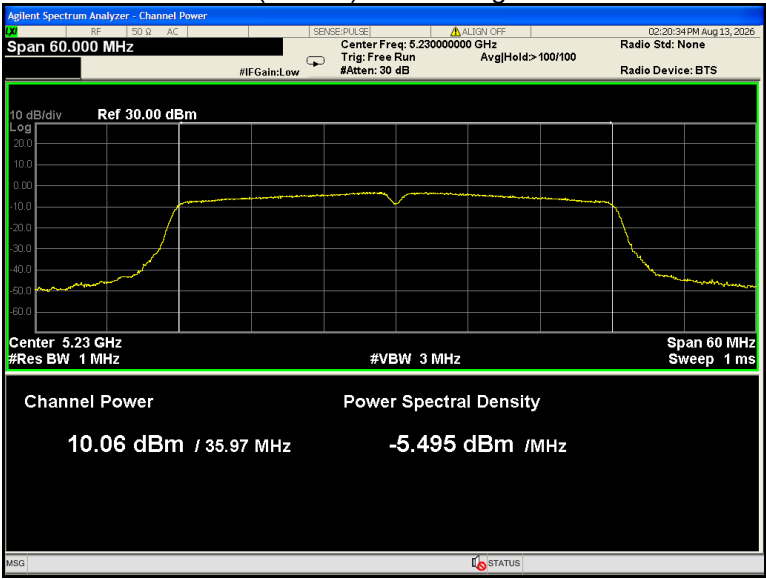
802.11ac(VHT20) U-NII-1 High channel



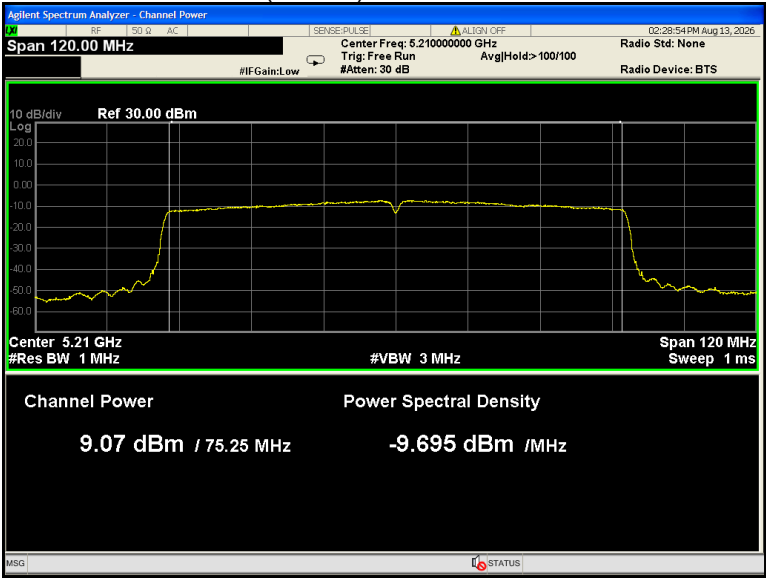
802.11ac(VHT40) U-NII-1 Low channel



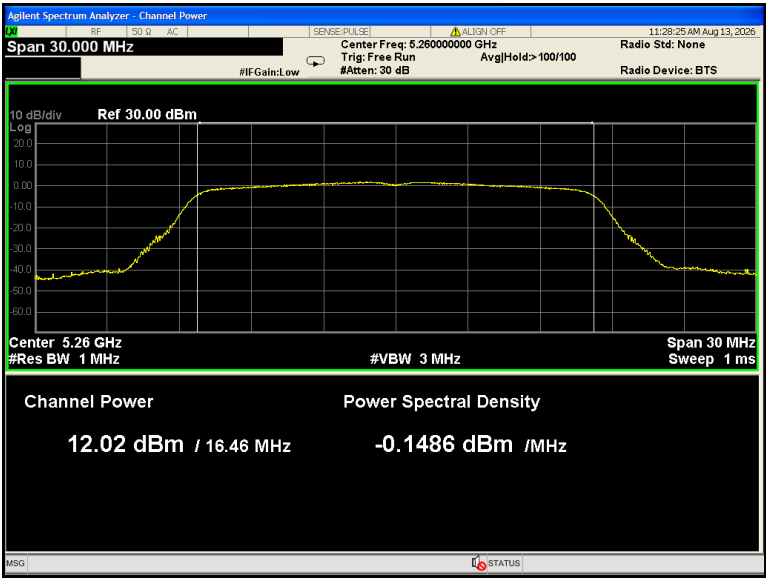
802.11ac(VHT40) U-NII-1 High channel



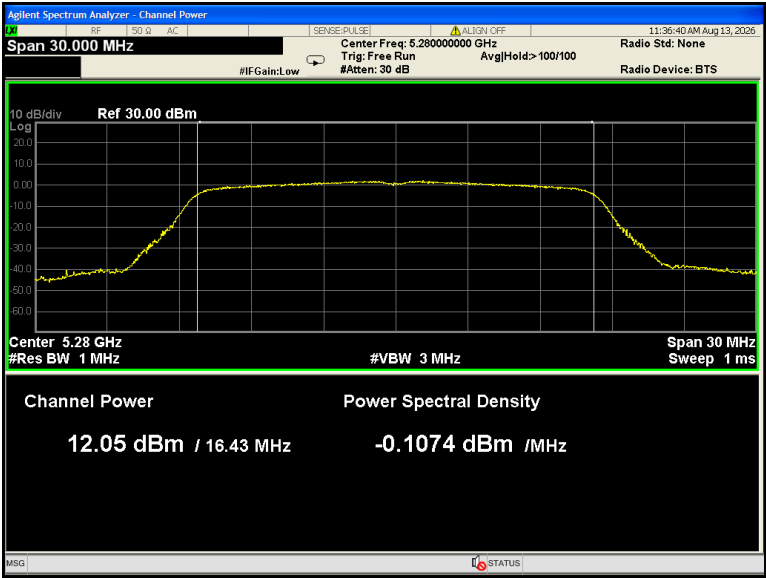
802.11ac(VHT80) U-NII-1 Low channel



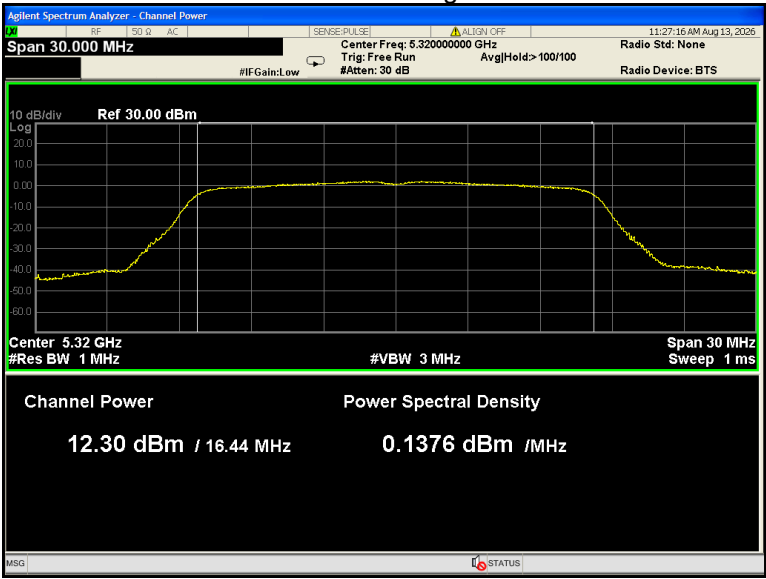
802.11a U-NII-2A Low channel



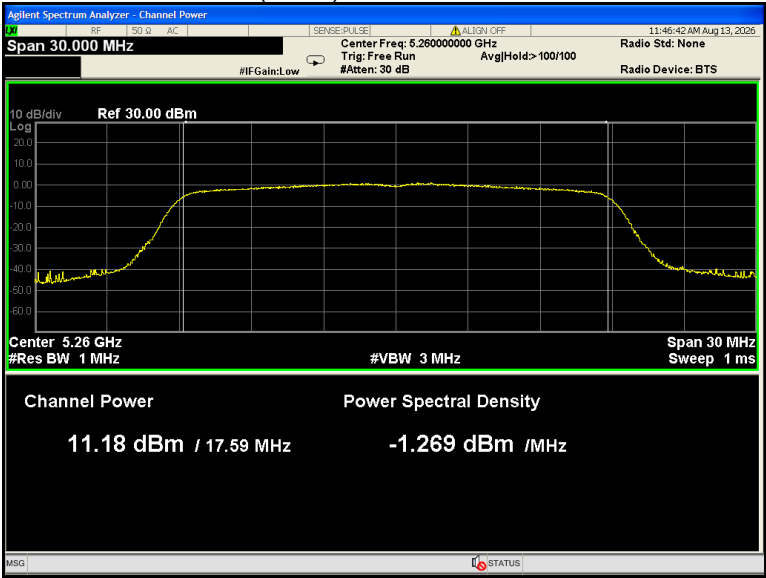
802.11a U-NII-2A Middle channel



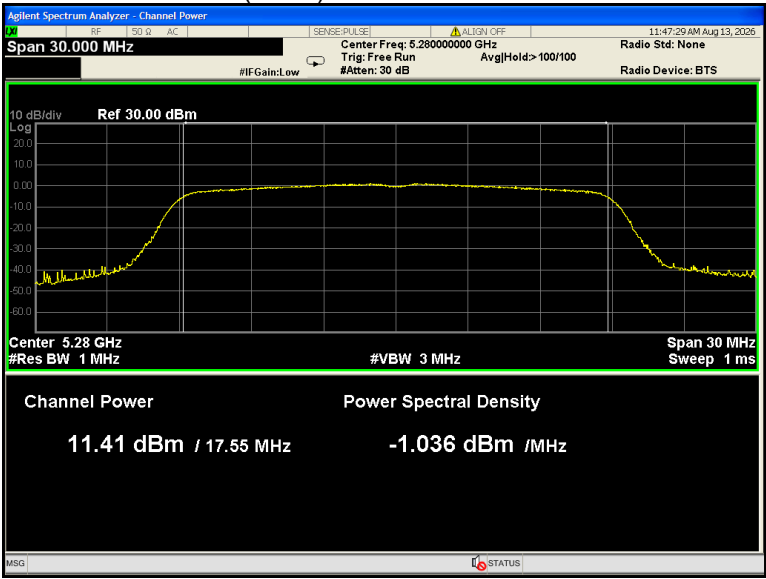
802.11a U-NII-2A High channel



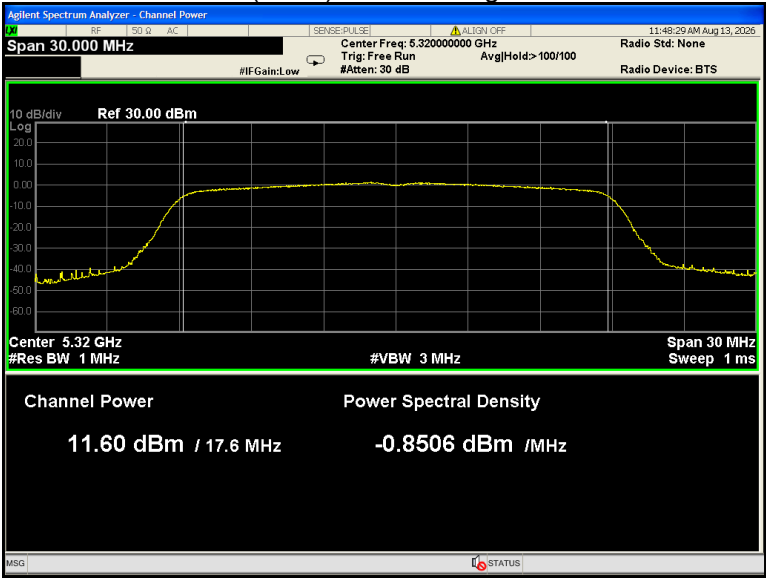
802.11n(HT20) U-NII-2A Low channel



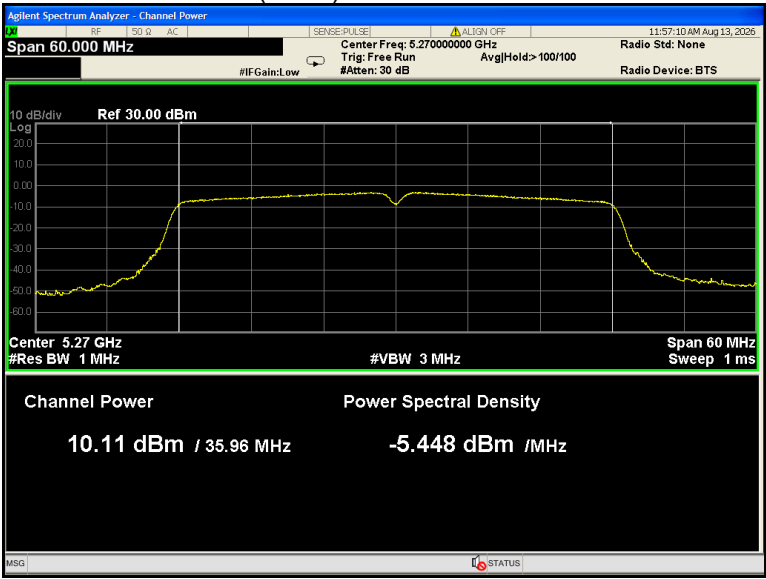
802.11n(HT20) U-NII-2A Middle channel



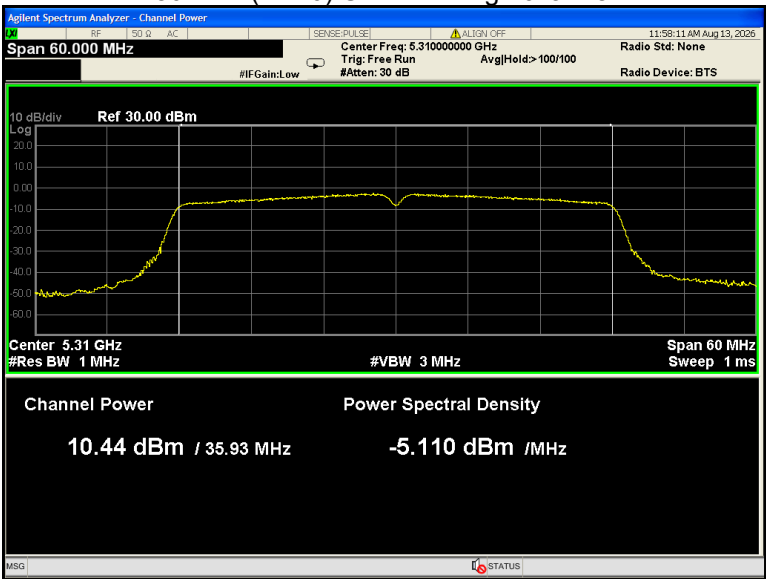
802.11n(HT20) U-NII-2A High channel



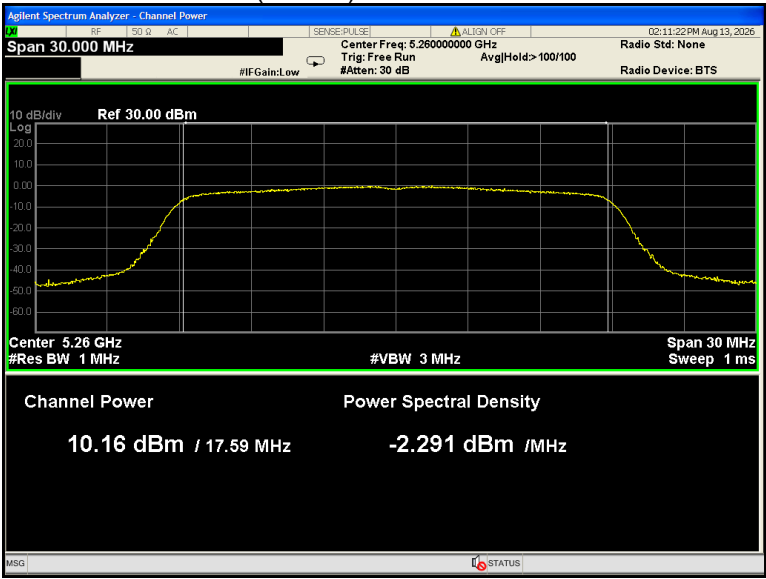
802.11n(HT40) U-NII-2A Low channel



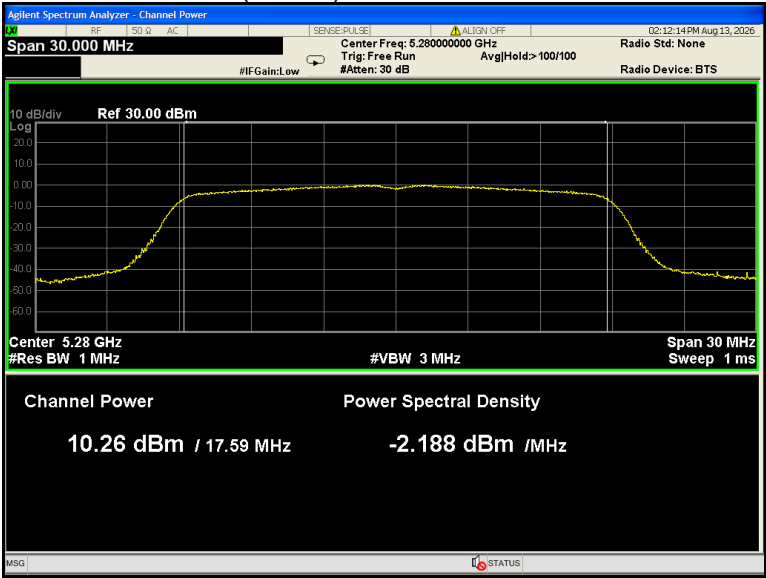
802.11n(HT40) U-NII-2A High channel



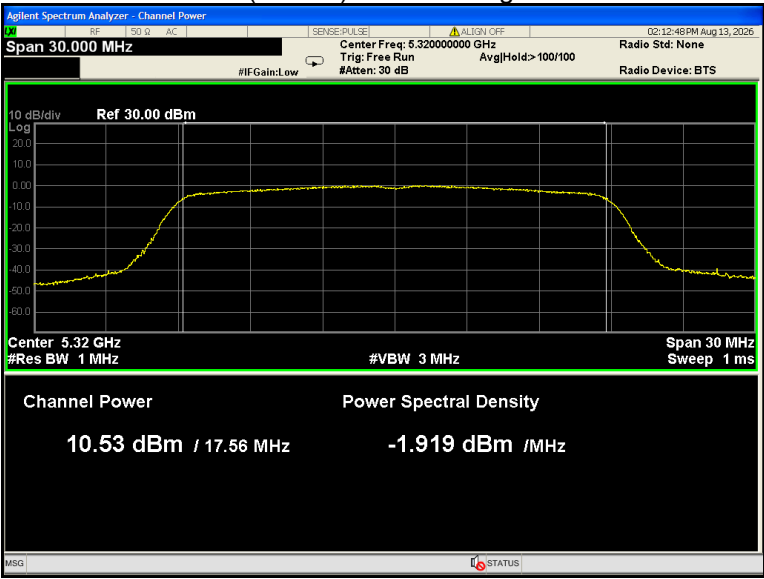
802.11ac(VHT20) U-NII-2A Low channel



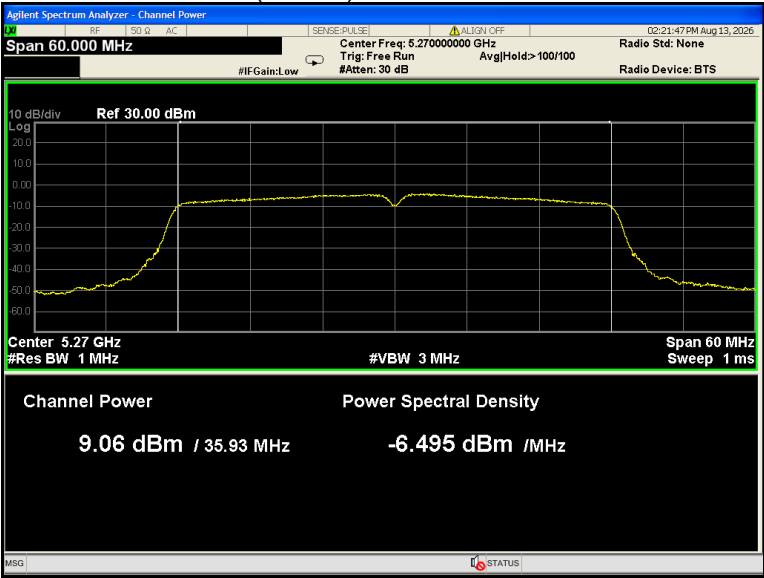
802.11ac(VHT20) U-NII-2A Middle channel



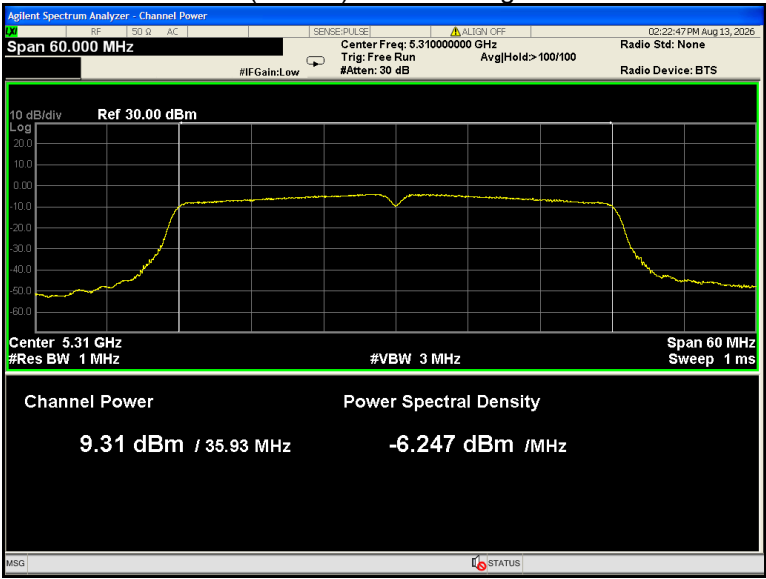
802.11ac(VHT20) U-NII-2A High channel



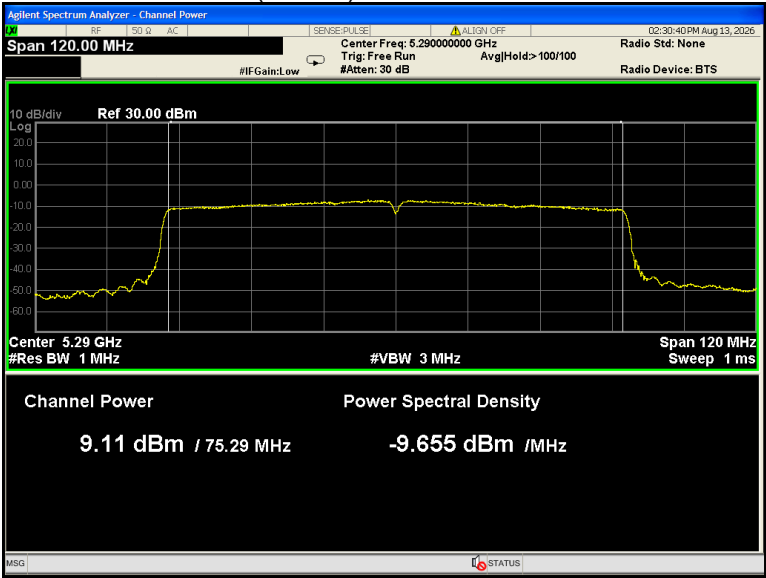
802.11ac(VHT40) U-NII-2A Low channel



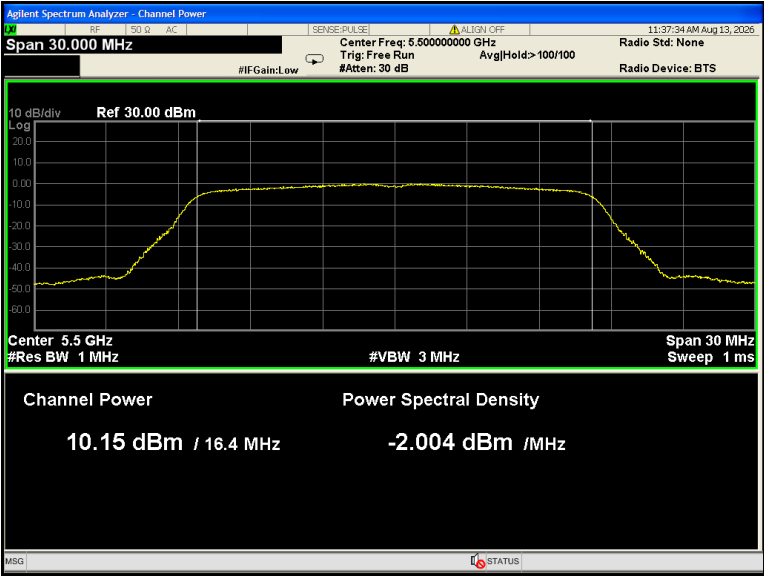
802.11ac(VHT40) U-NII-2A High channel



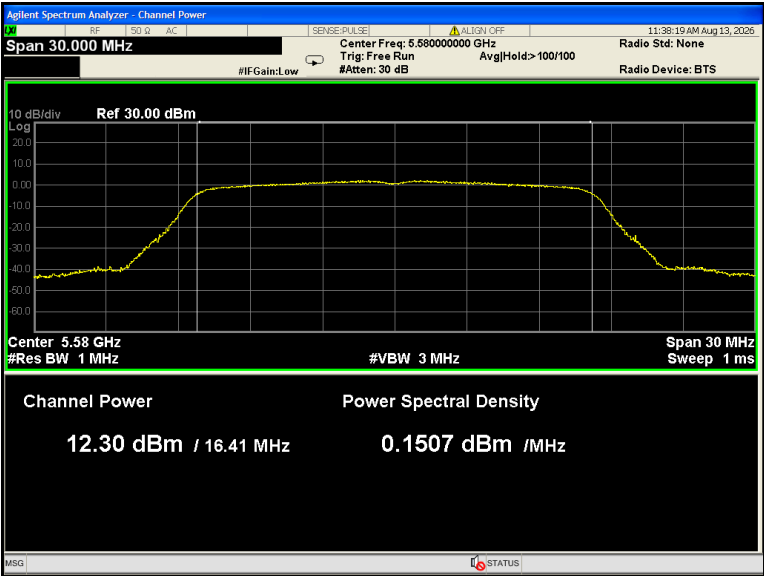
802.11ac(VHT80) U-NII-2A Low channel



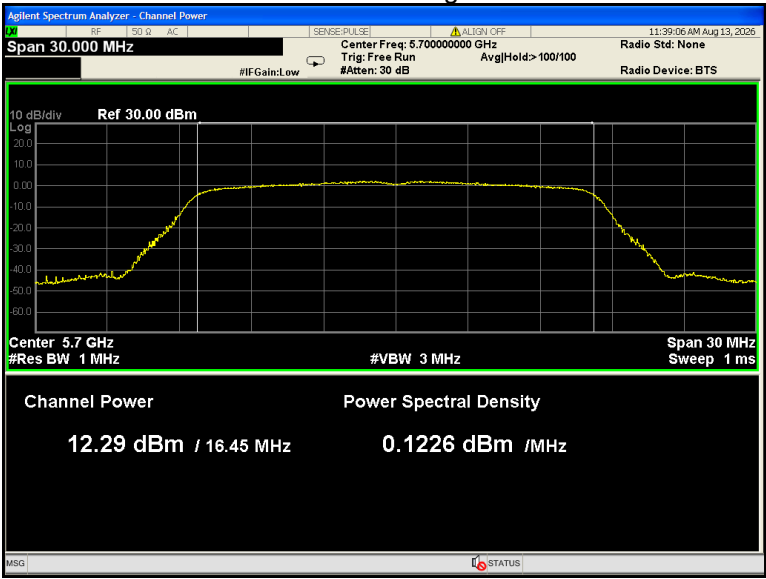
802.11a U-NII-2C Low channel



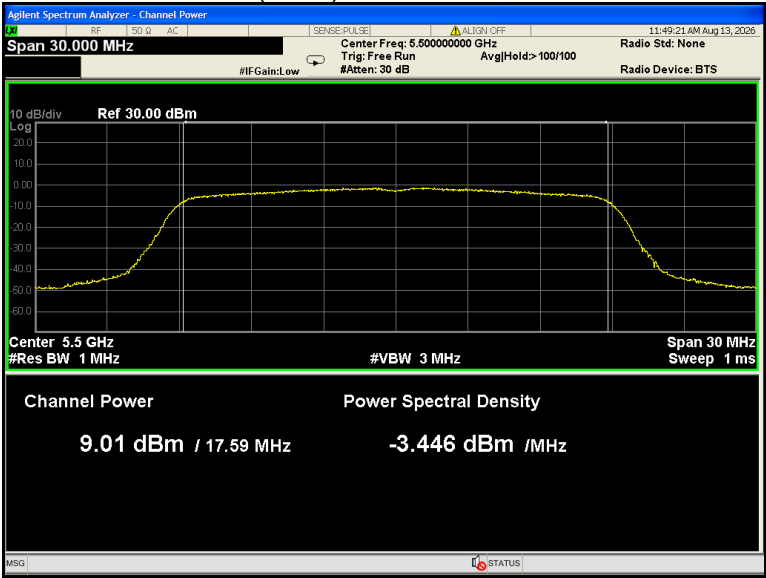
802.11a U-NII-2C Middle channel



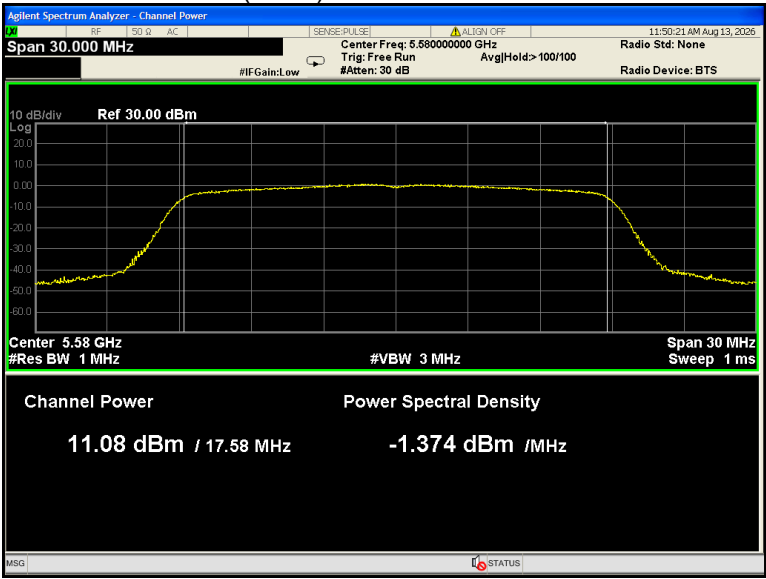
802.11a U-NII-2C High channel



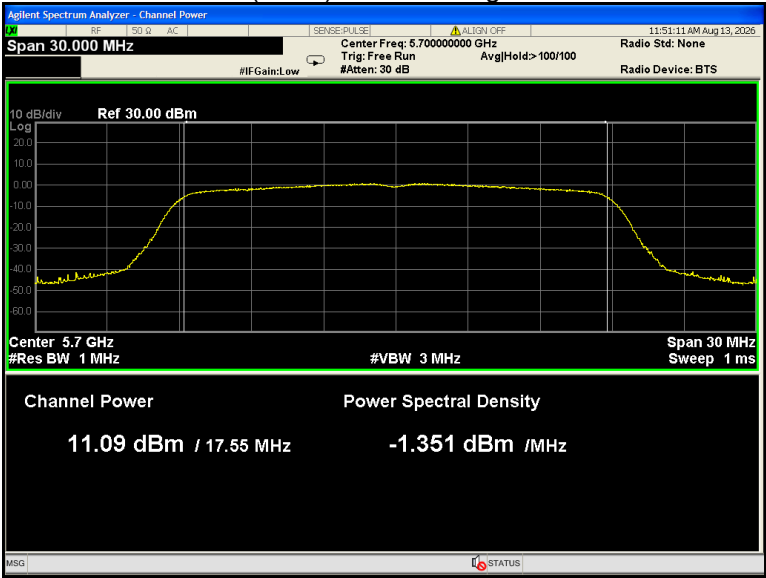
802.11n(HT20) U-NII-2C Low channel



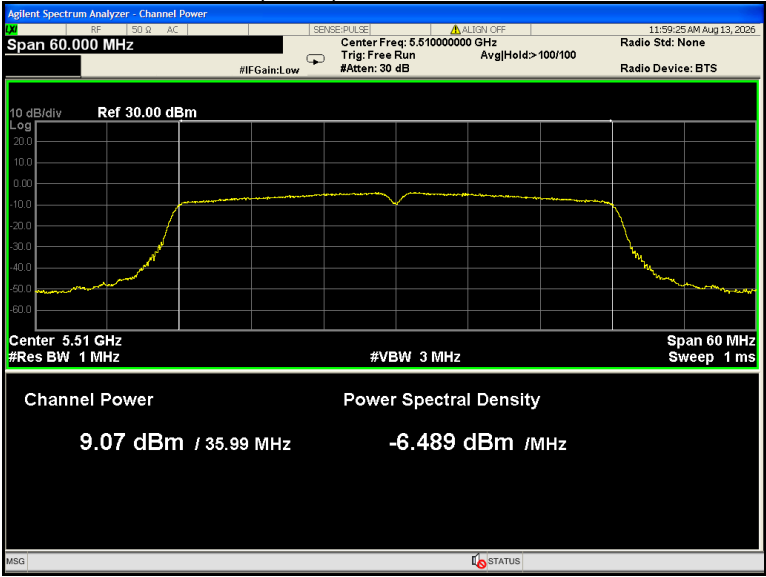
802.11n(HT20) U-NII-2C Middle channel



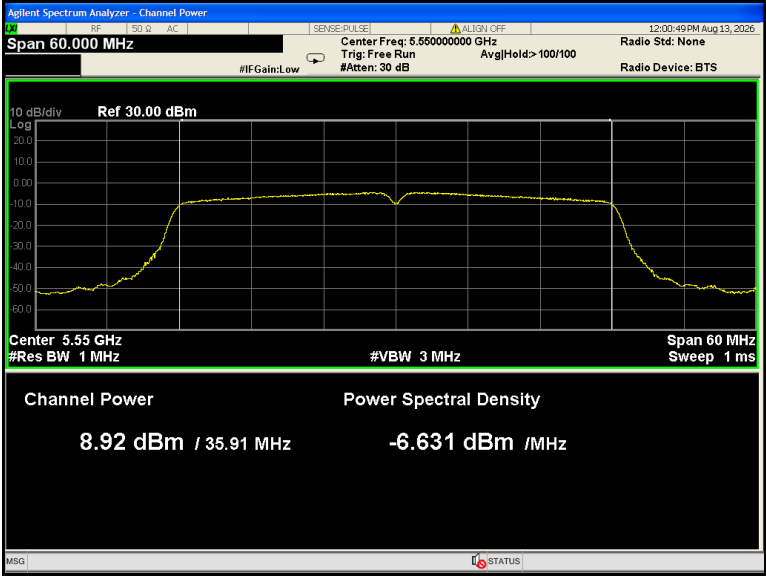
802.11n(HT20) U-NII-2C High channel



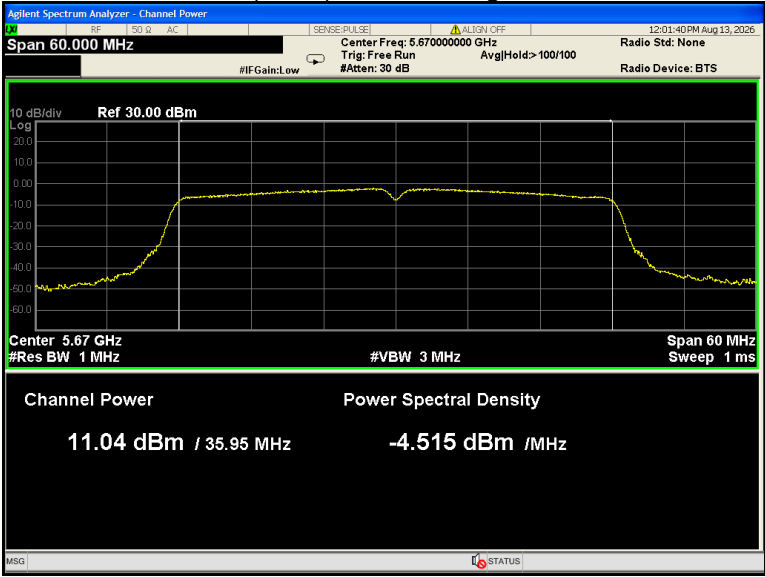
802.11n(HT40) U-NII-2C Low channel



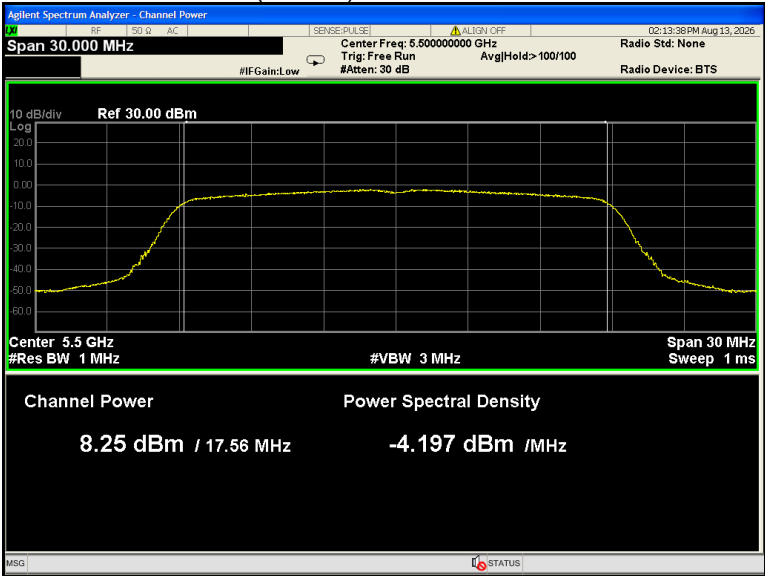
802.11n(HT40) U-NII-2C Middle channel



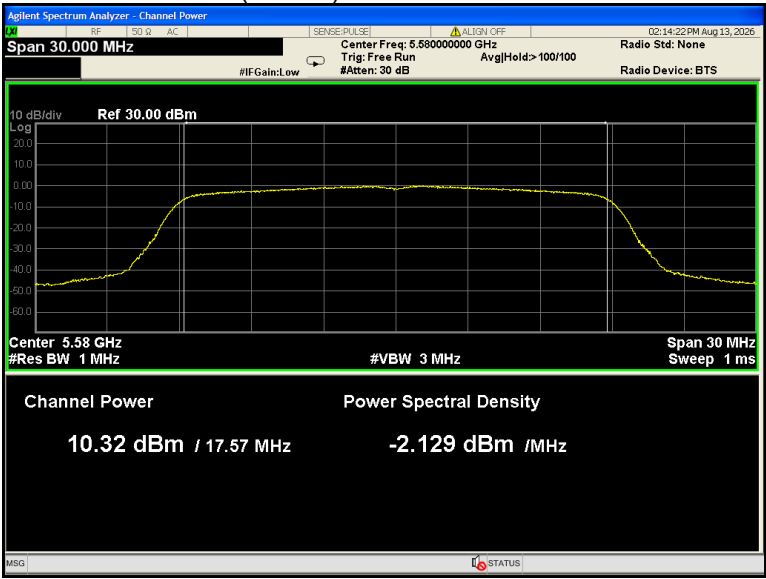
802.11n(HT40) U-NII-2C High channel



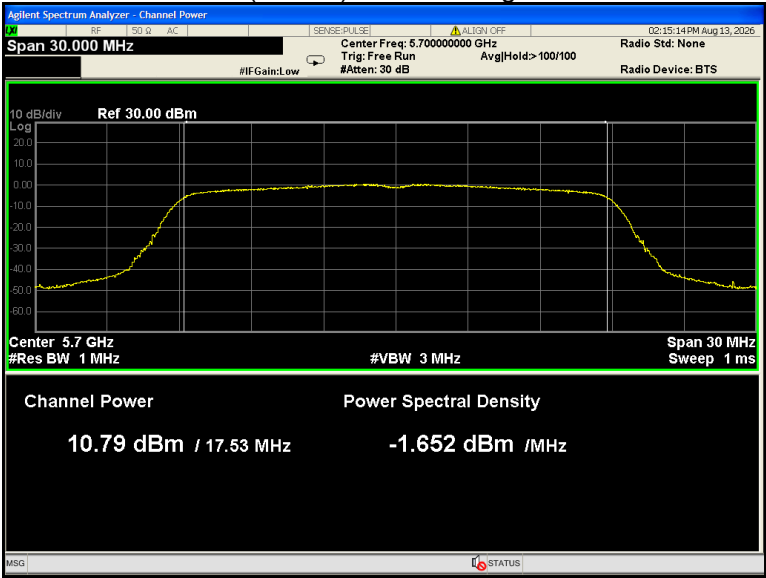
802.11ac(VHT20) U-NII-2C Low channel



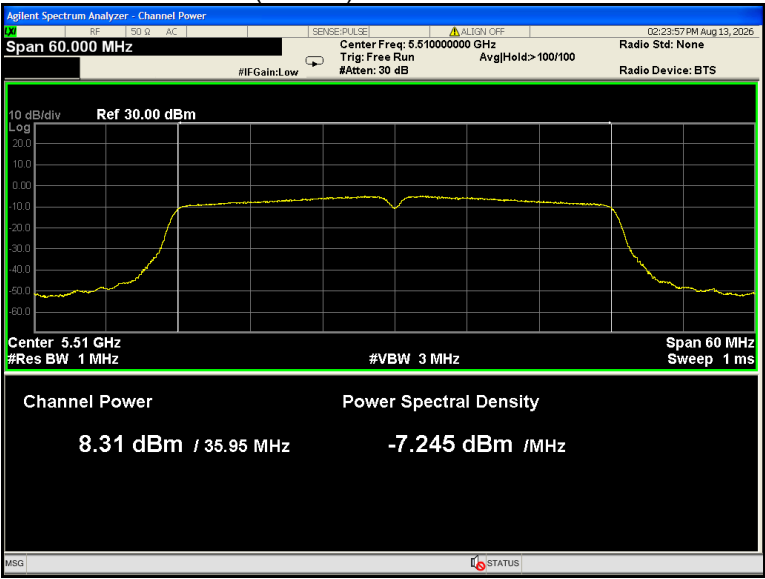
802.11ac(VHT20) U-NII-2C Middle channel



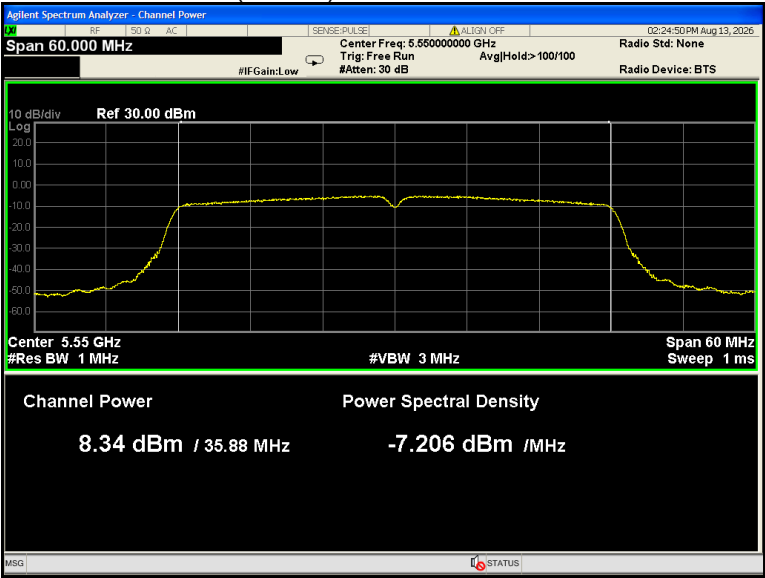
802.11ac(VHT20) U-NII-2C High channel



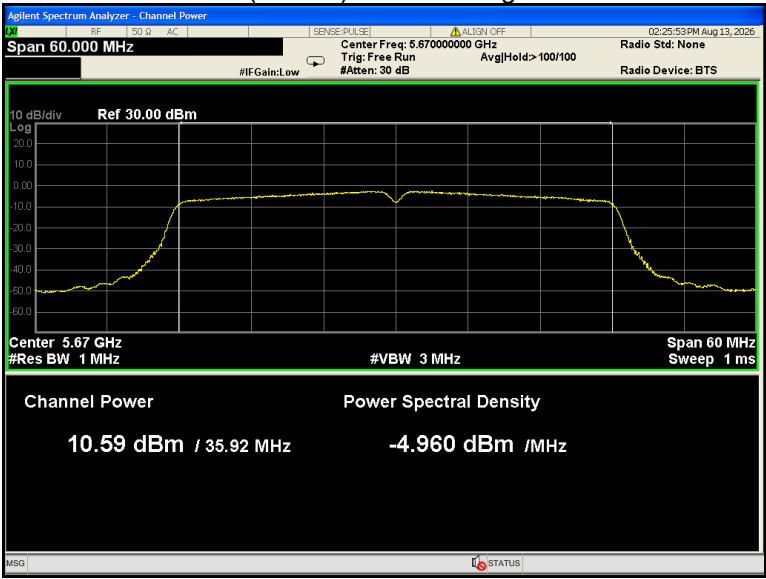
802.11ac(VHT40) U-NII-2C Low channel



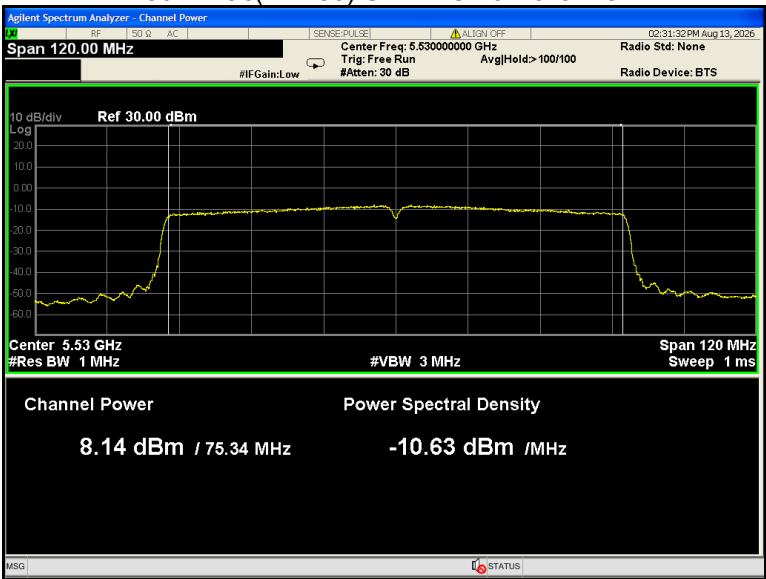
802.11ac(VHT40) U-NII-2C Middle channel



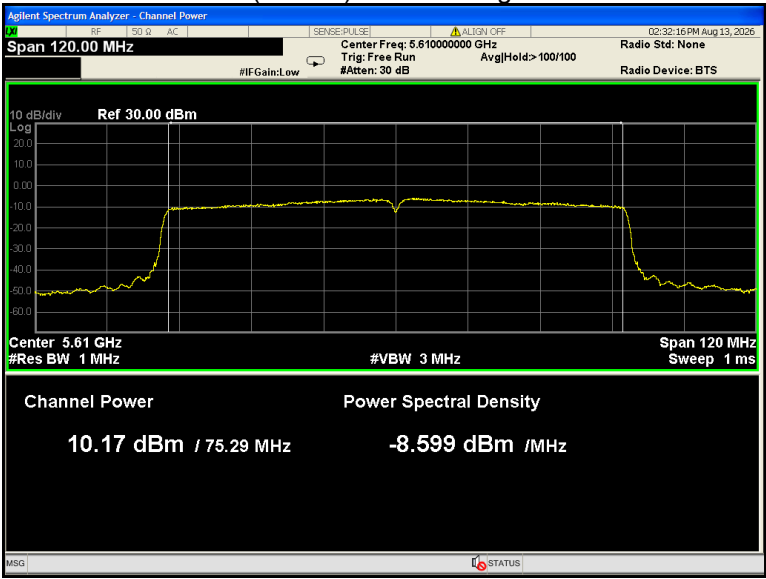
802.11ac(VHT40) U-NII-2C High channel



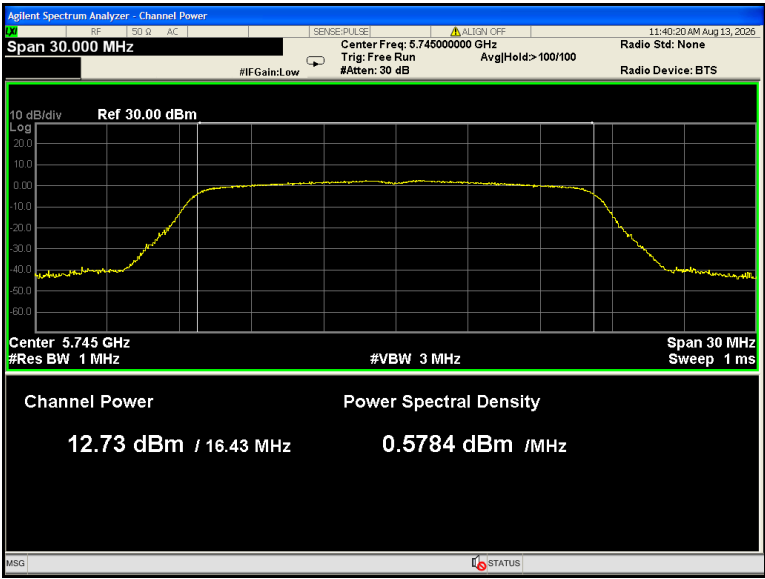
802.11ac(VHT80) U-NII-2C Low channel



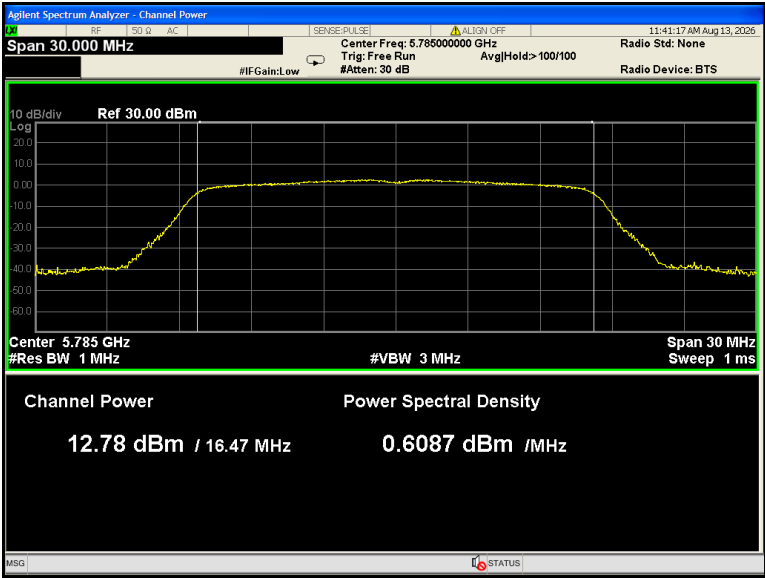
802.11ac(VHT80) U-NII-2C High channel



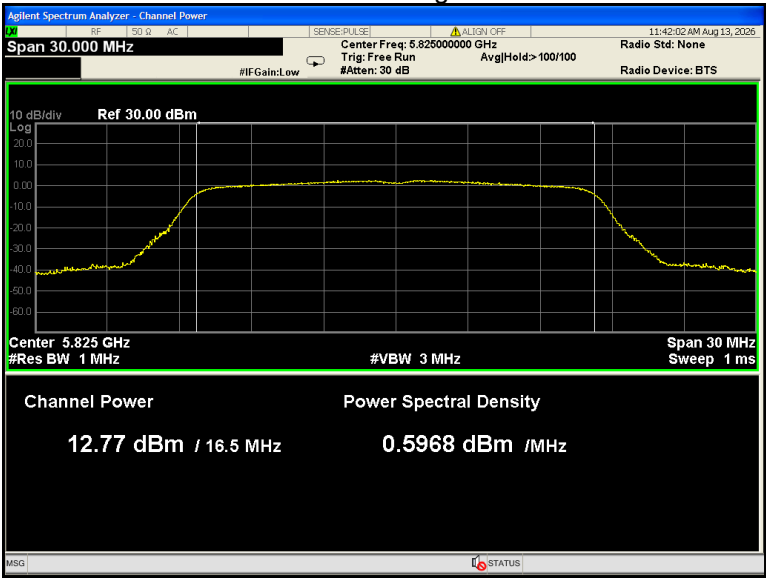
802.11a U-NII-3 Low channel



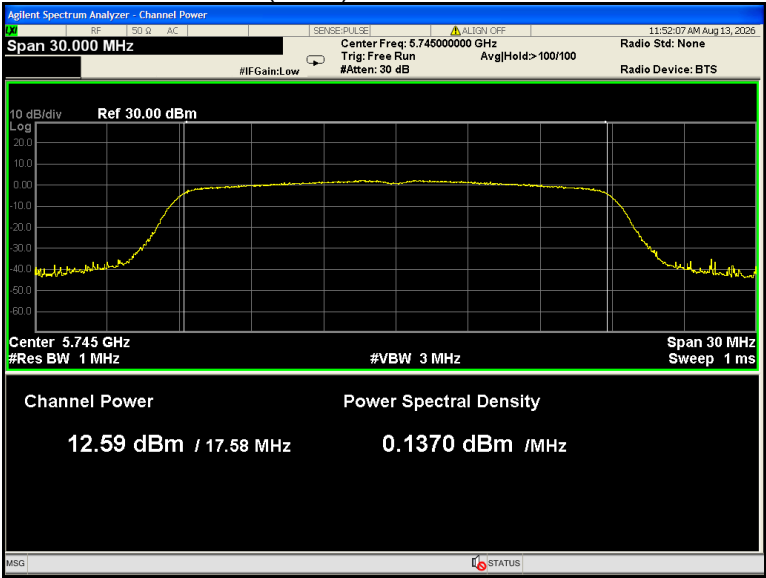
802.11a U-NII-3 Middle channel



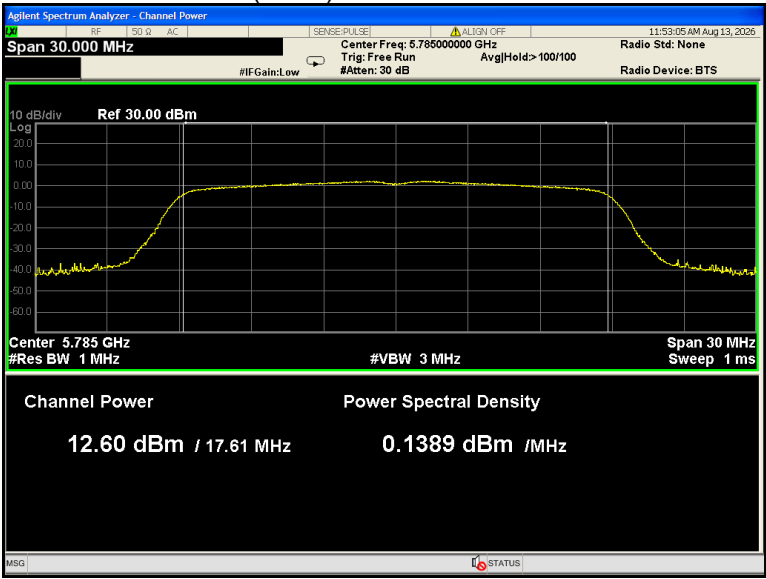
802.11a U-NII-3 High channel



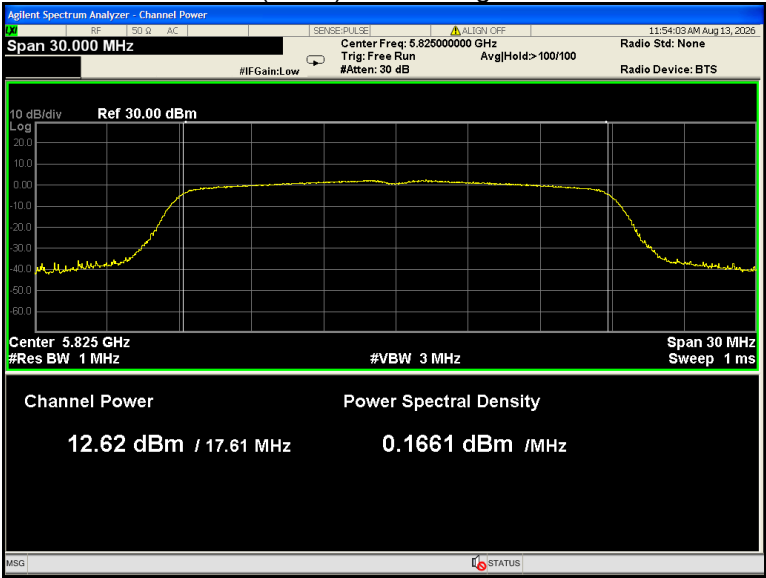
802.11n(HT20) U-NII-3 Low channel



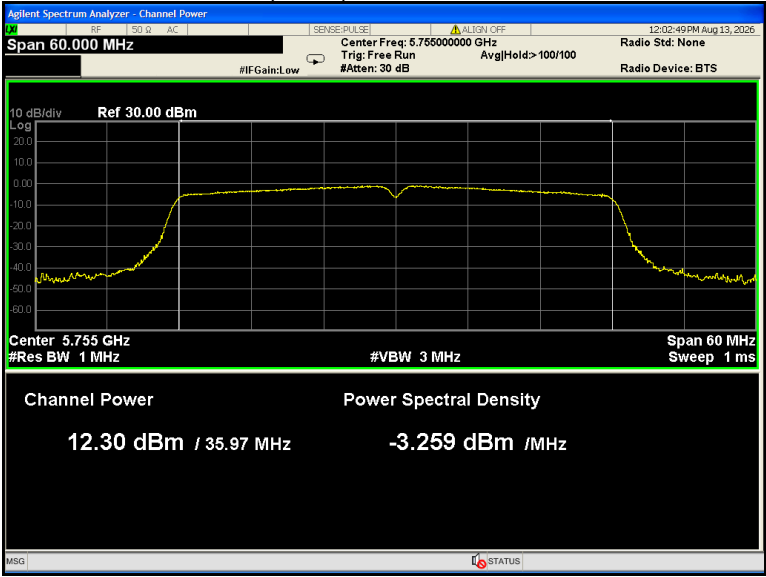
802.11n(HT20) U-NII-3 Middle channel



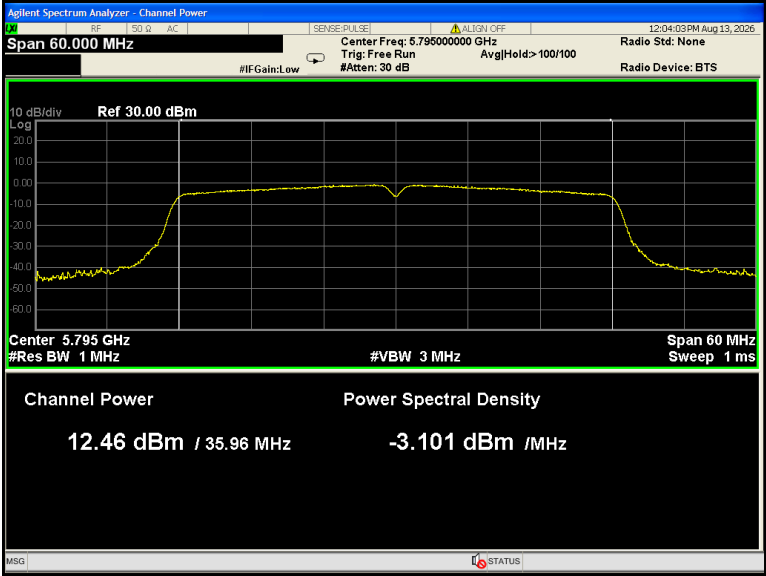
802.11n(HT20) U-NII-3 High channel



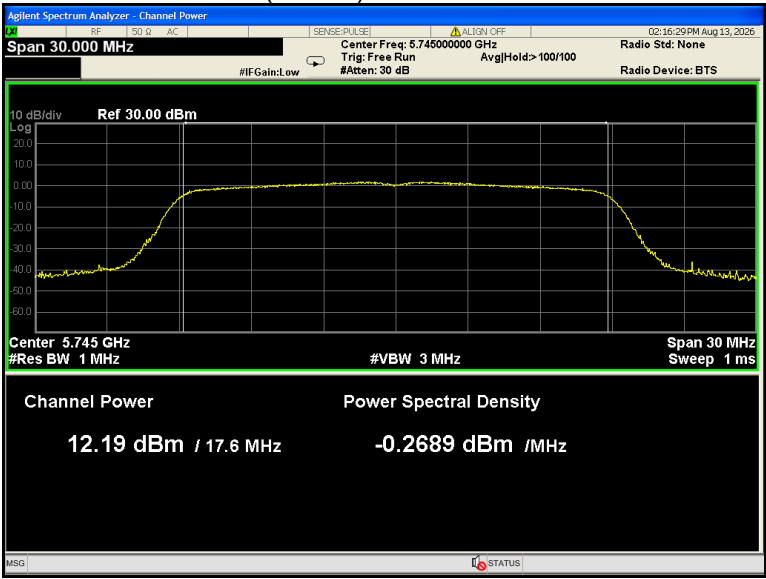
802.11n(HT40) U-NII-3 Low channel



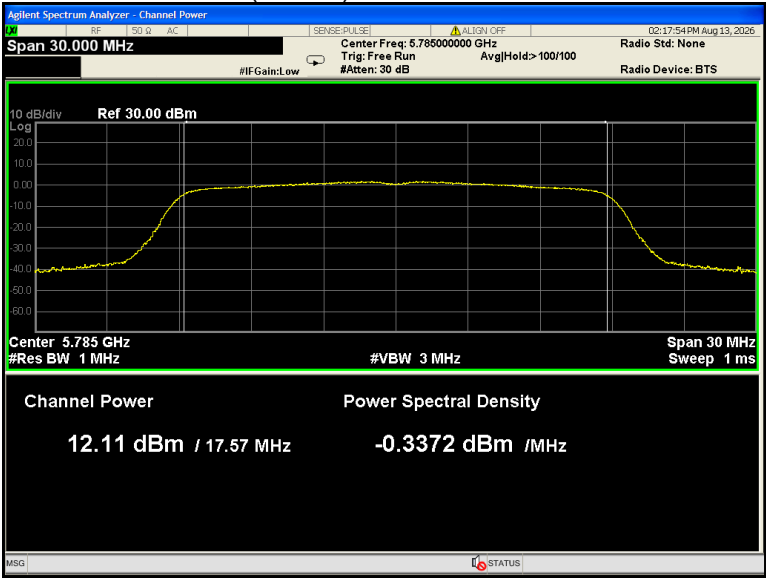
802.11n(HT40) U-NII-3 High channel



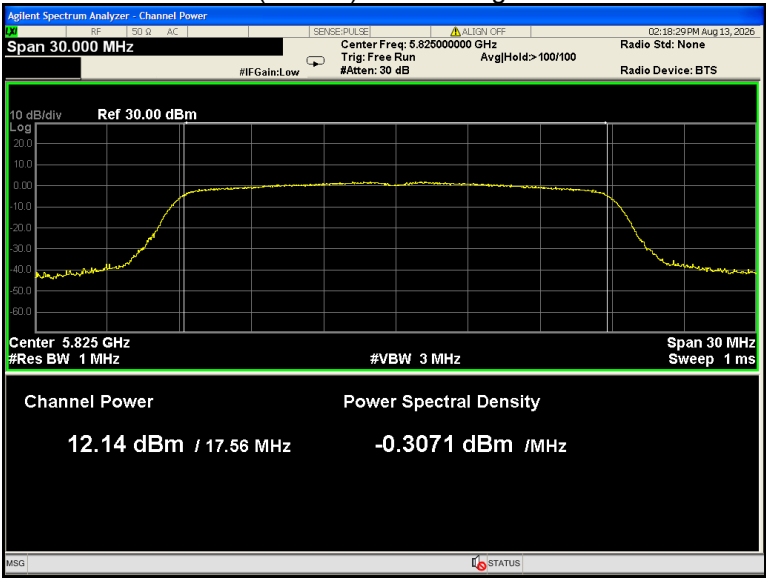
802.11ac(VHT20) U-NII-3 Low channel



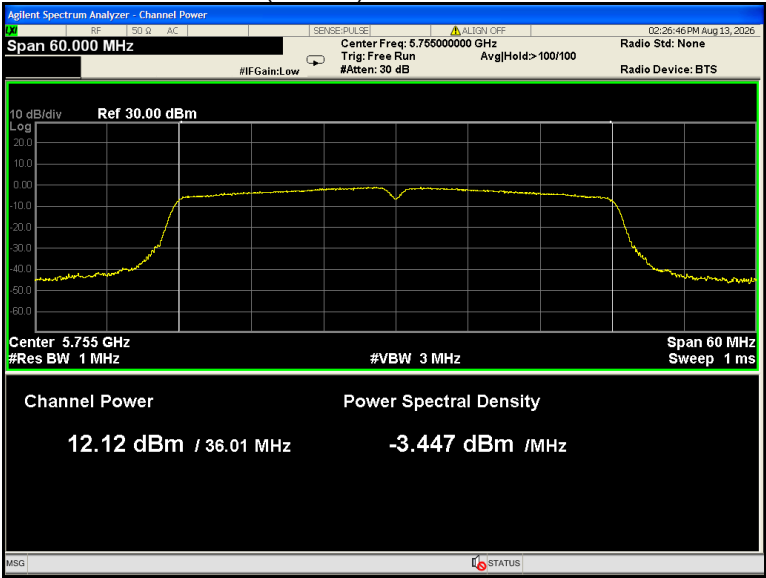
802.11ac(VHT20) U-NII-3 Middle channel



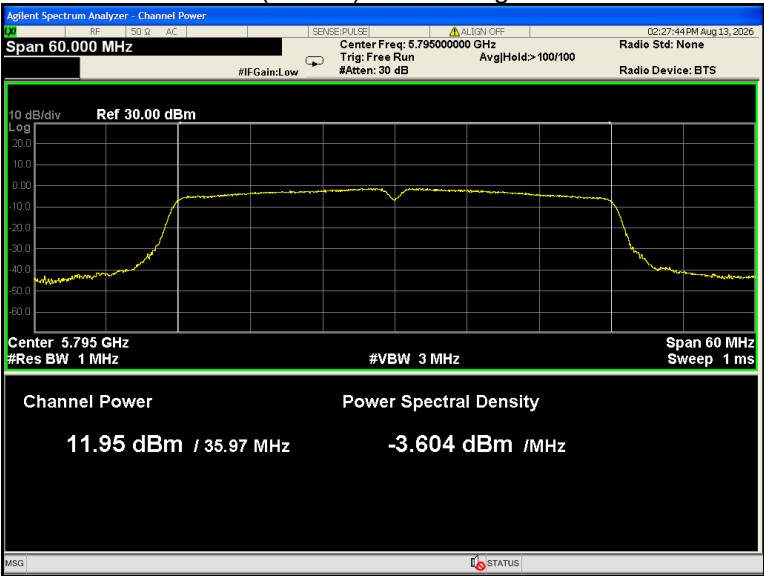
802.11ac(VHT20) U-NII-3 High channel



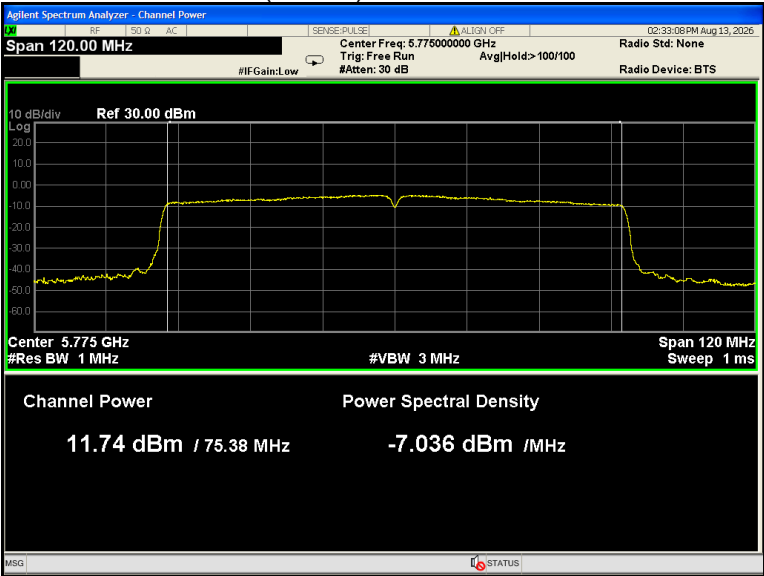
802.11ac(VHT40) U-NII-3 Low channel



802.11ac(VHT40) U-NII-3 High channel



802.11ac(VHT80) U-NII-3 Low channel



14 Power Spectral Density

Test Requirement:	FCC 47CFR Part 15 Section 15.407(a)
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Test Limit:	For the band 5.15-5.25 GHz For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. For the band 5.725-5.850 GHz The maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.
Test Result:	PASS

14.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
2. Refer to section 4 of this report, according to KDB 789033 and ANSI C63.10, select the appropriate test method: SA-1.
3. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
4. The result is the Maximum PSD over 1 MHz reference bandwidth.
5. For devices operating in the band 5.725–5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz).

14.2 Test Result

Band	Operation mode	Channel	Power Spectral Density (dBm/MHz)
U-NII-1	802.11a	Low	4.850
		Middle	5.118
		High	5.230
	802.11n(HT20)	Low	4.364
		Middle	4.449
		High	4.297
	802.11n(HT40)	Low	-0.737
		Middle	/
		High	-0.376
	802.11ac(VHT20)	Low	3.916
		Middle	4.331
		High	4.276
	802.11ac(VHT40)	Low	-0.465
		Middle	/
		High	-0.635
	802.11ac(VHT80)	Low	-4.285
		Middle	/
		High	/

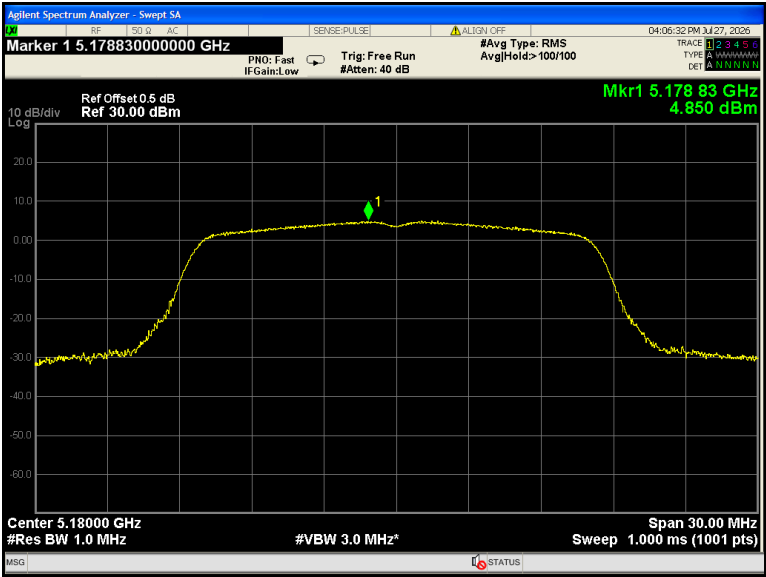
Band	Operation mode	Channel	Power Spectral Density (dBm/MHz)
U-NII-2A	802.11a	Low	2.925
		Middle	3.648
		High	3.826
	802.11n(HT20)	Low	2.079
		Middle	2.468
		High	2.310
	802.11n(HT40)	Low	-1.808
		Middle	/
		High	-1.788
	802.11ac(VHT20)	Low	2.265
		Middle	2.407
		High	2.464
	802.11ac(VHT40)	Low	-1.968
		Middle	/
		High	-1.899
	802.11ac(VHT80)	Low	-5.840
		Middle	/
		High	/

Band	Operation mode	Channel	Power Spectral Density (dBm/MHz)
U-NII-2C	802.11a	Low	1.852
		Middle	3.909
		High	4.287
	802.11n(HT20)	Low	0.020
		Middle	2.209
		High	2.049
	802.11n(HT40)	Low	-2.923
		Middle	-2.826
		High	-0.978
	802.11ac(VHT20)	Low	0.137
		Middle	2.357
		High	2.235
	802.11ac(VHT40)	Low	-2.849
		Middle	-2.849
		High	-0.828
	802.11ac(VHT80)	Low	-6.175
		Middle	/
		High	-3.996

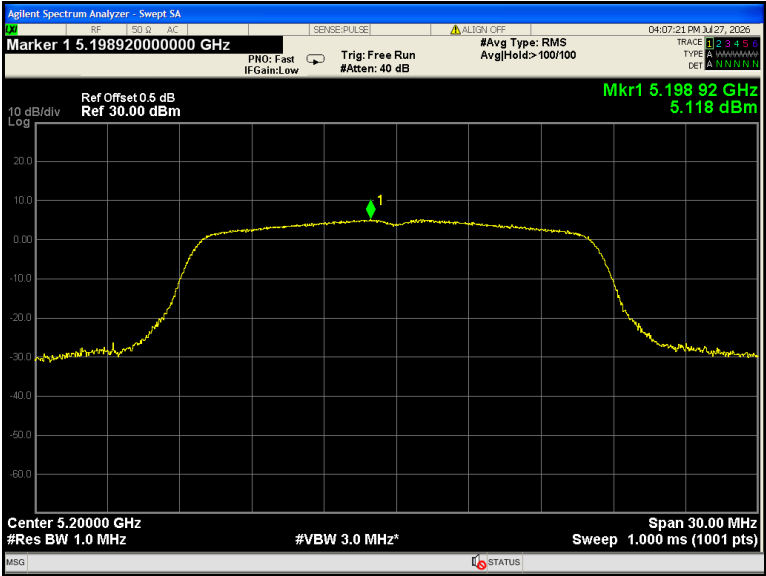
Band	Operation mode	Channel	Power Spectral Density (dBm/500kHz)
U-NII-3	802.11a	Low	1.933
		Middle	1.671
		High	1.803
	802.11n(HT20)	Low	1.250
		Middle	1.114
		High	0.937
	802.11n(HT40)	Low	-1.877
		Middle	/
		High	-2.224
	802.11ac(VHT20)	Low	1.167
		Middle	1.232
		High	1.387
	802.11ac(VHT40)	Low	-1.921
		Middle	/
		High	-1.669
	802.11ac(VHT80)	Low	-6.015
		Middle	/
		High	/

Test result plots shown as follows:

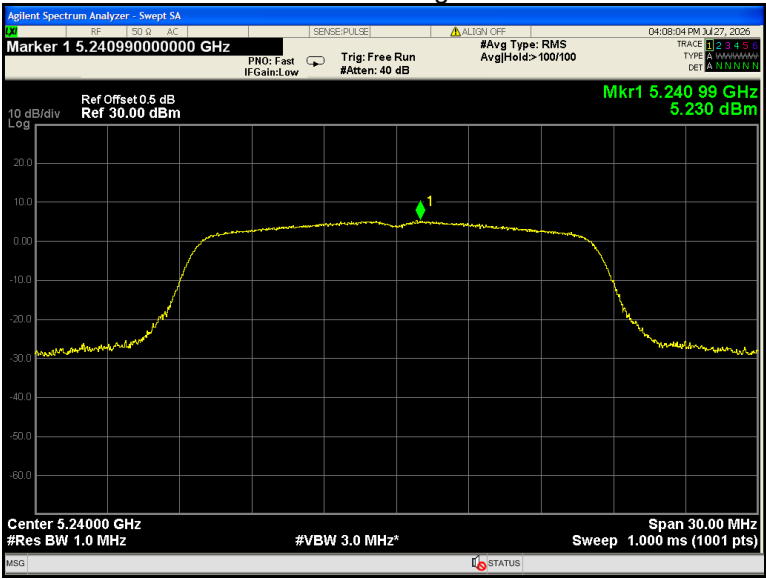
802.11a U-NII-1 Low channel



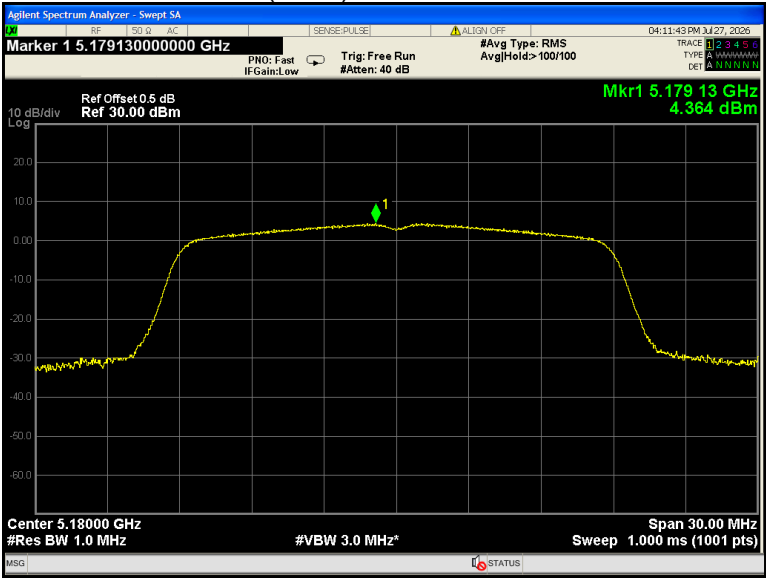
802.11a U-NII-1 Middle channel



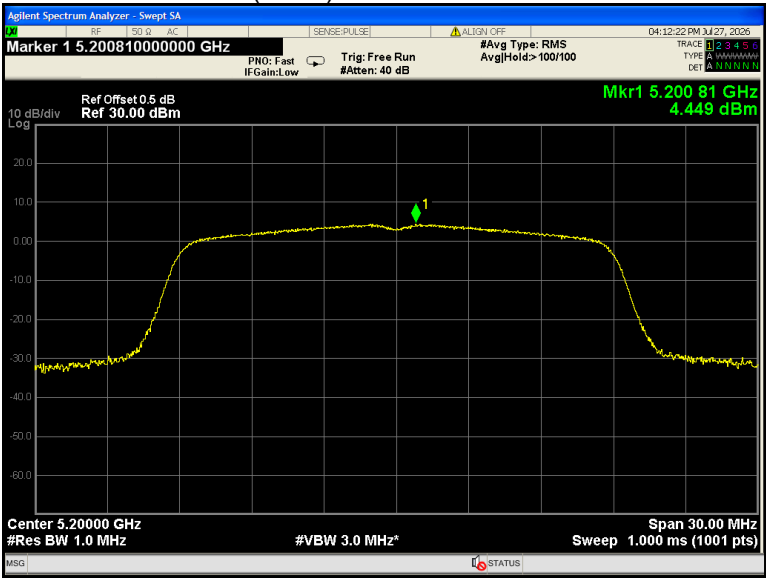
802.11a U-NII-1 High channel



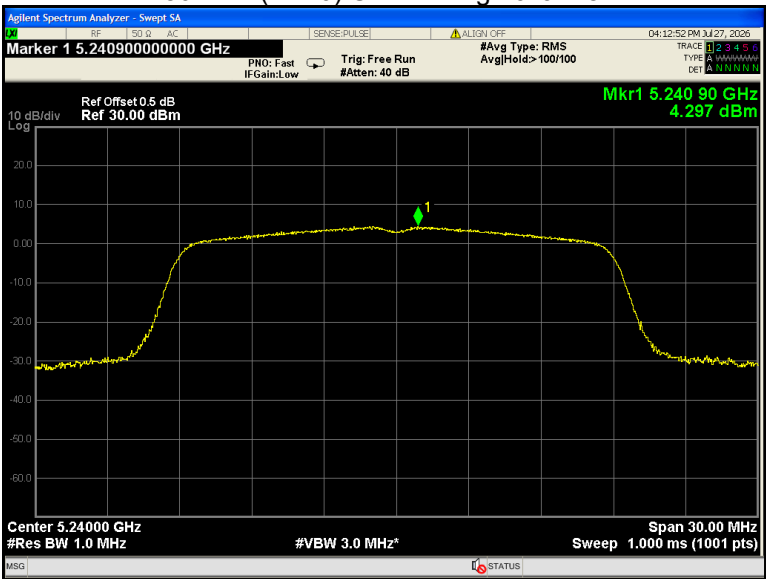
802.11n(HT20) U-NII-1 Low channel



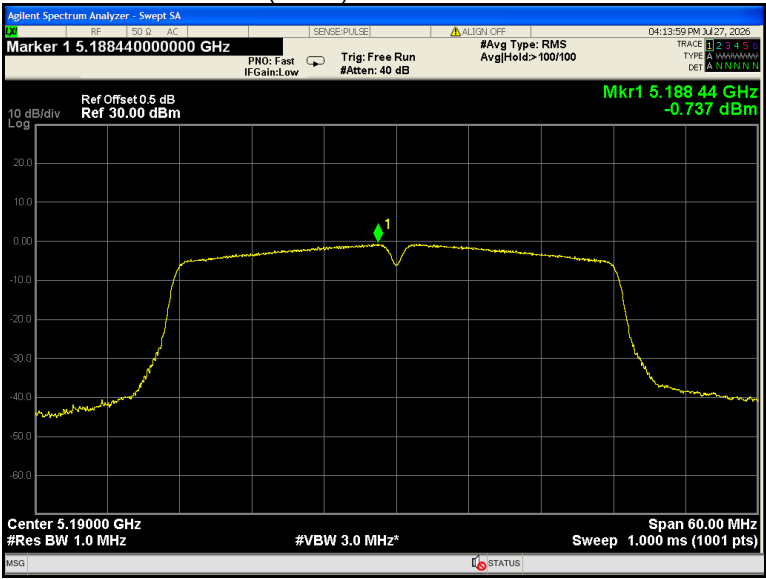
802.11n(HT20) U-NII-1 Middle channel



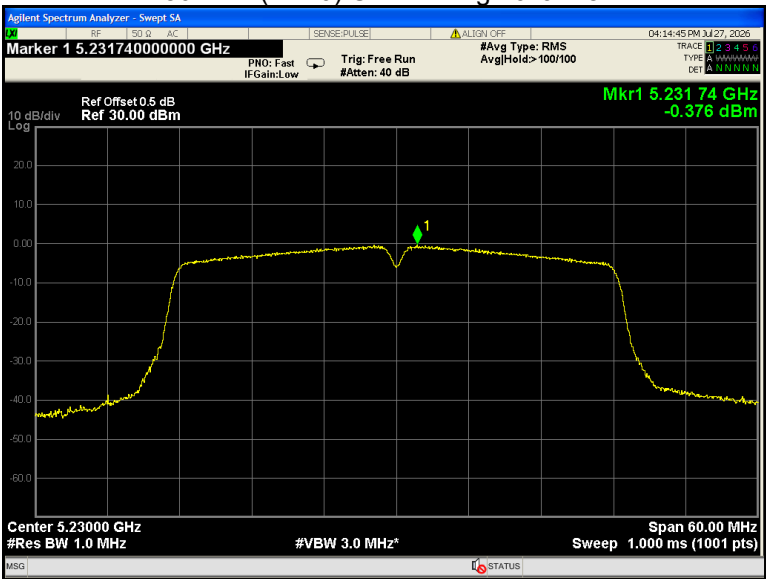
802.11n(HT20) U-NII-1 High channel



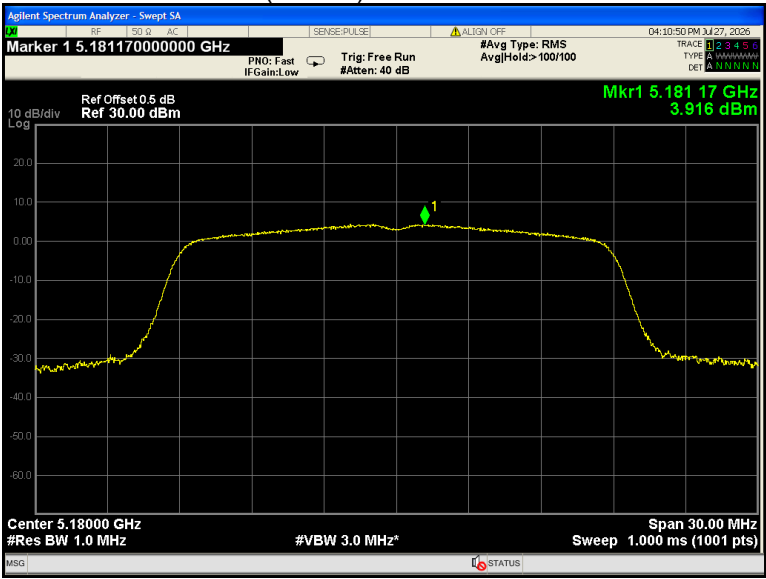
802.11n(HT40) U-NII-1 Low channel



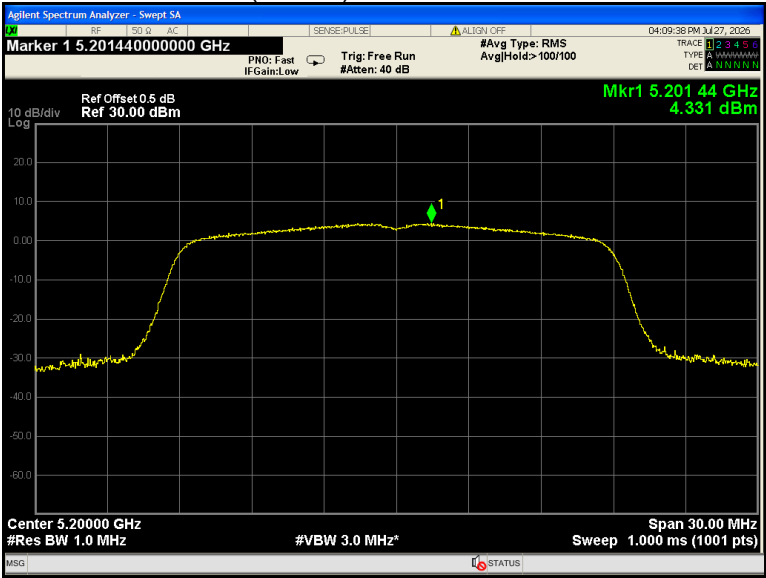
802.11n(HT40) U-NII-1 High channel



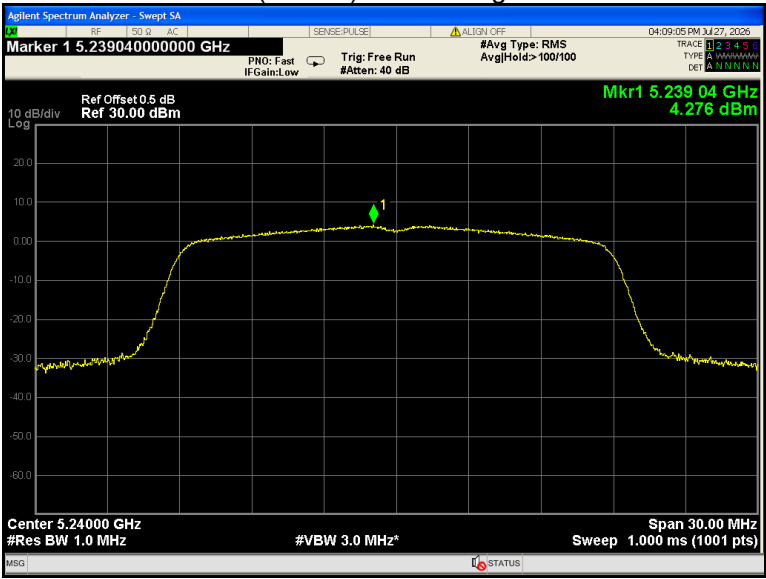
802.11ac(VHT20) U-NII-1 Low channel



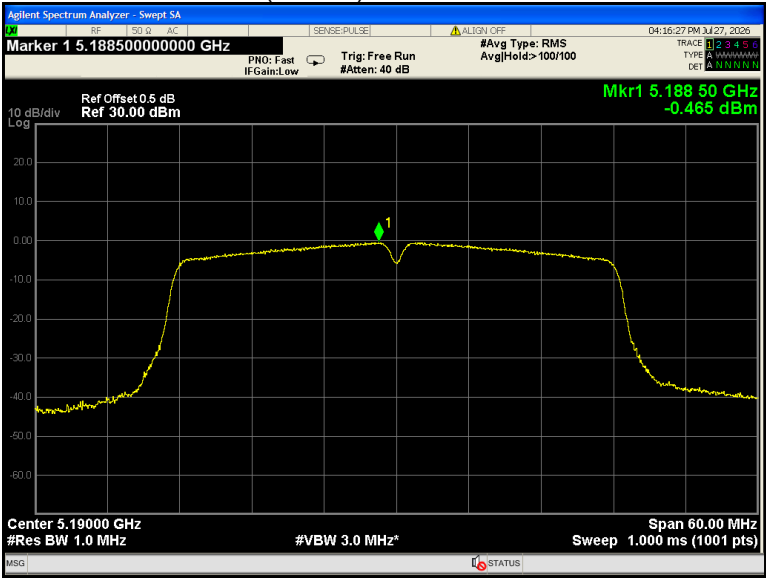
802.11ac(VHT20) U-NII-1 Middle channel



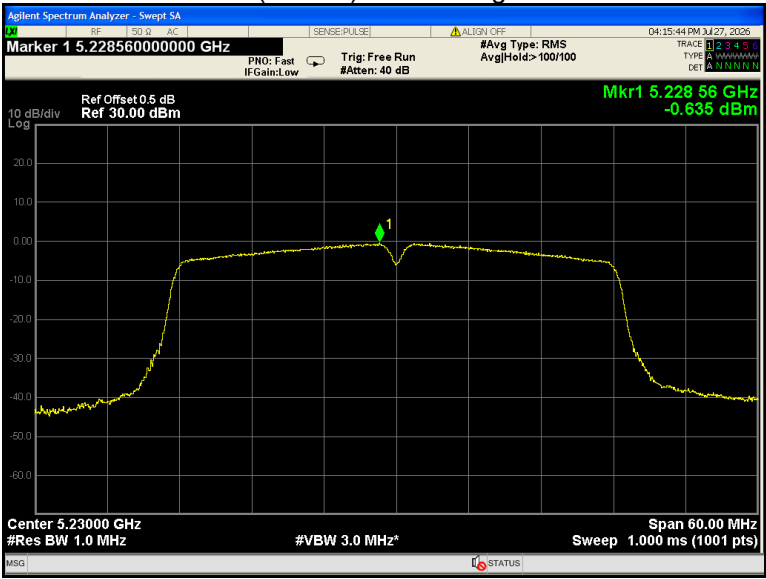
802.11ac(VHT20) U-NII-1 High channel



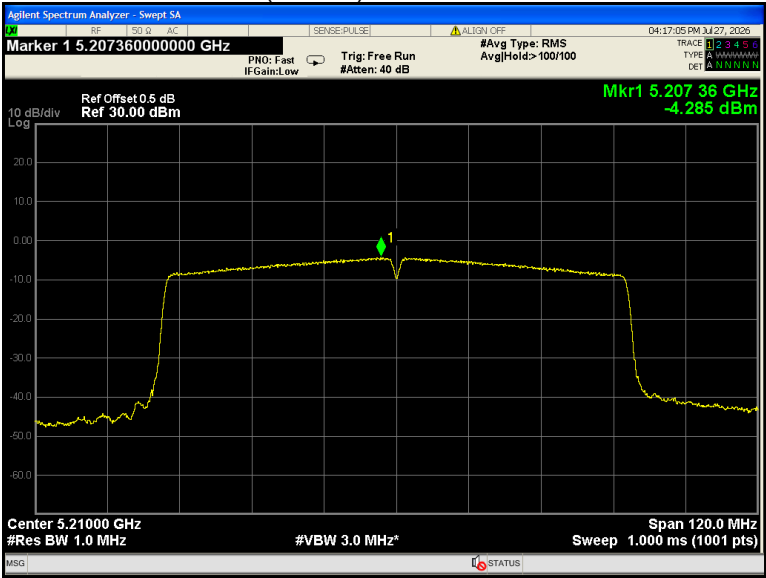
802.11ac(VHT40) U-NII-1 Low channel



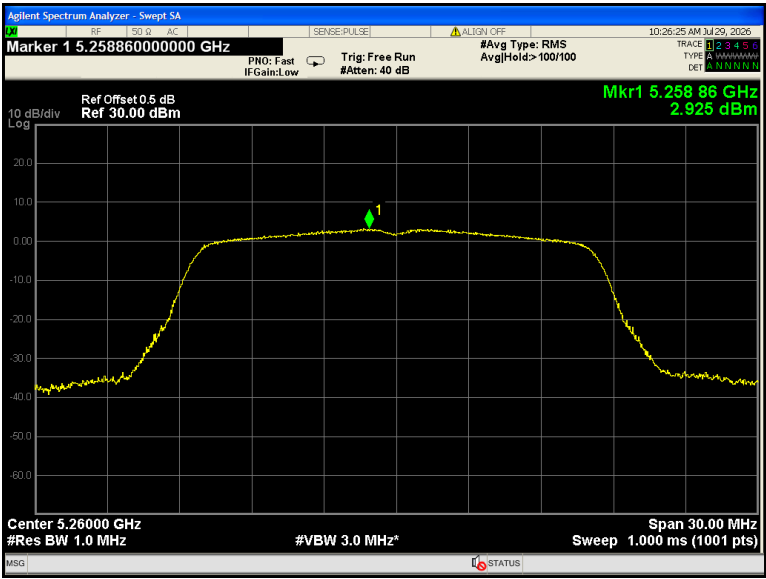
802.11ac(VHT40) U-NII-1 High channel



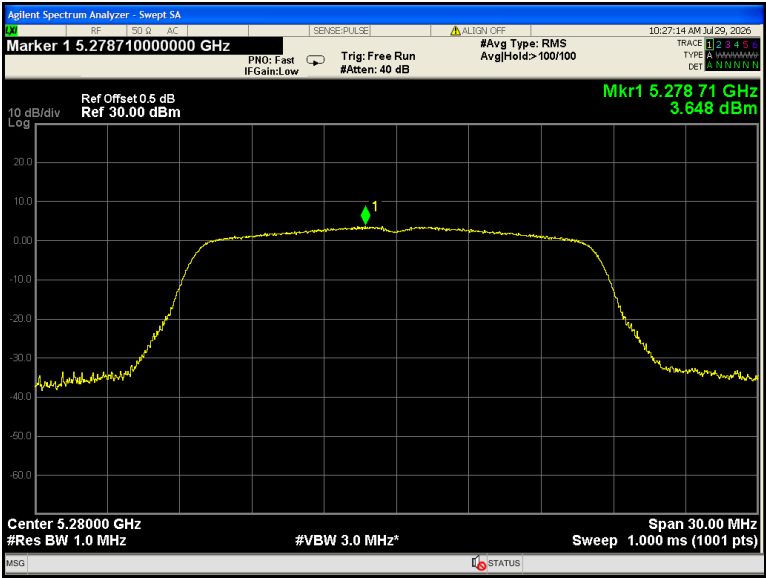
802.11ac(VHT80) U-NII-1 Low channel



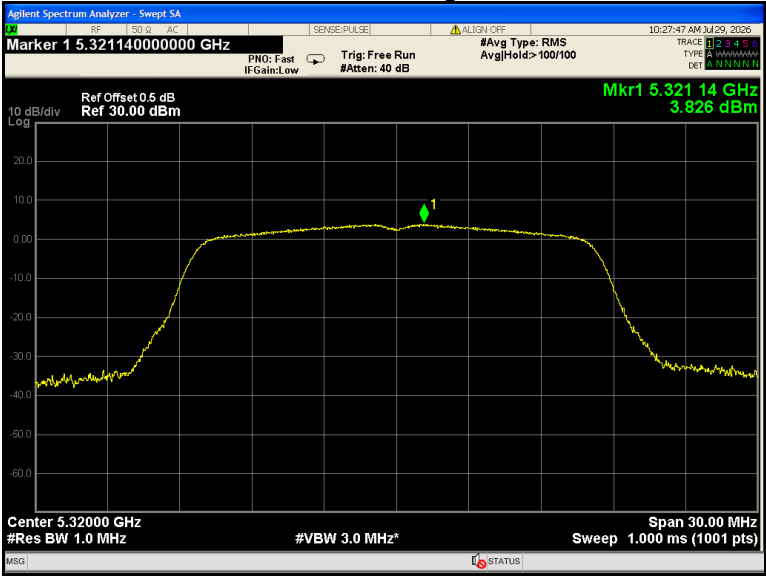
802.11a U-NII-2A Low channel



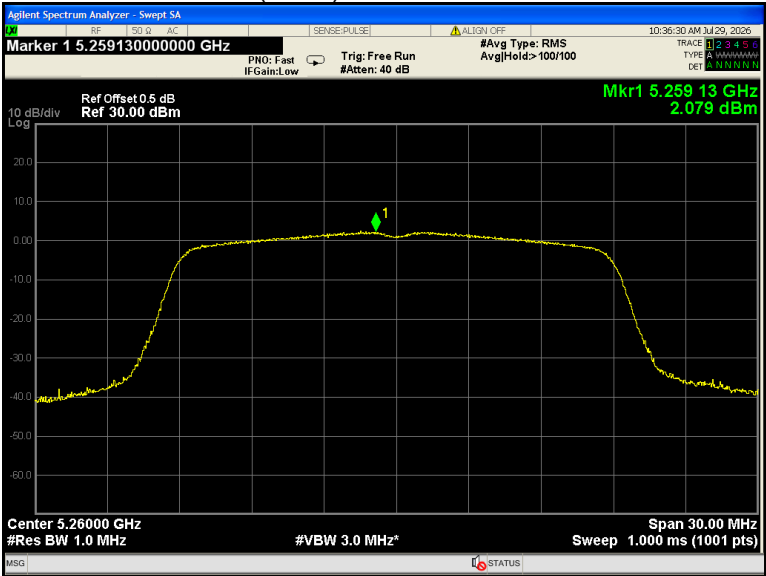
802.11a U-NII-2A Middle channel



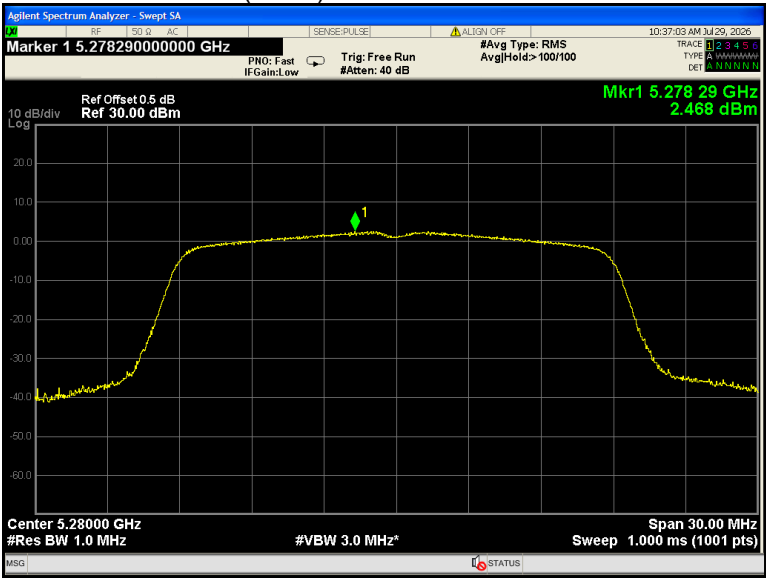
802.11a U-NII-2A High channel



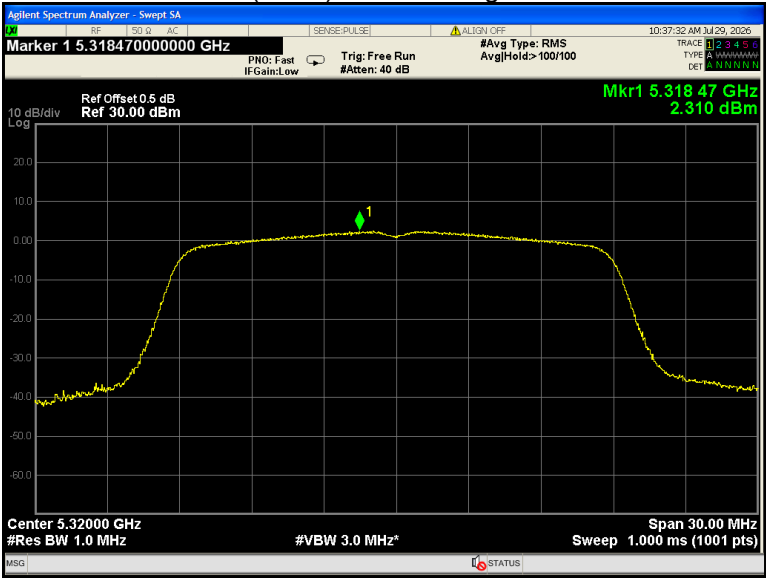
802.11n(HT20) U-NII-2A Low channel



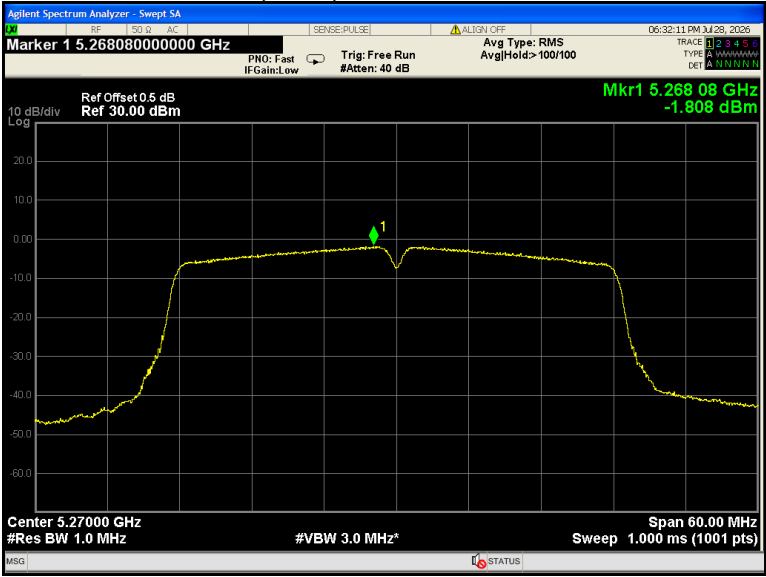
802.11n(HT20) U-NII-2A Middle channel



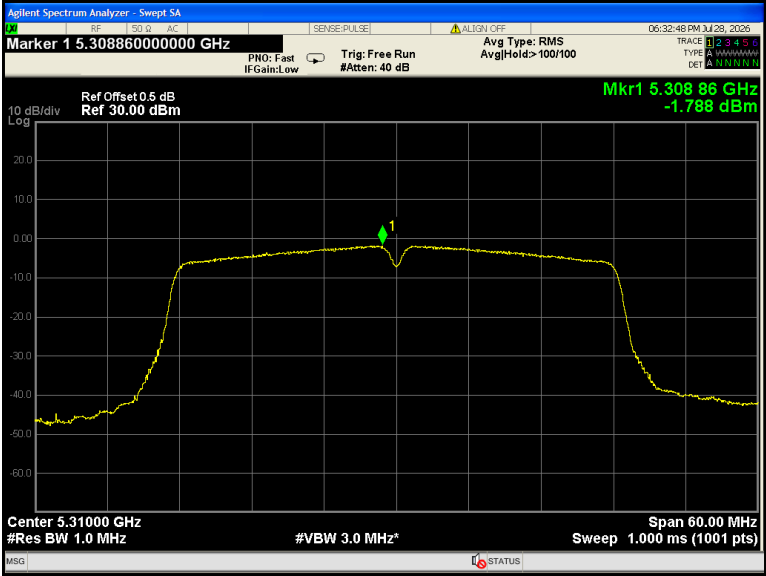
802.11n(HT20) U-NII-2A High channel



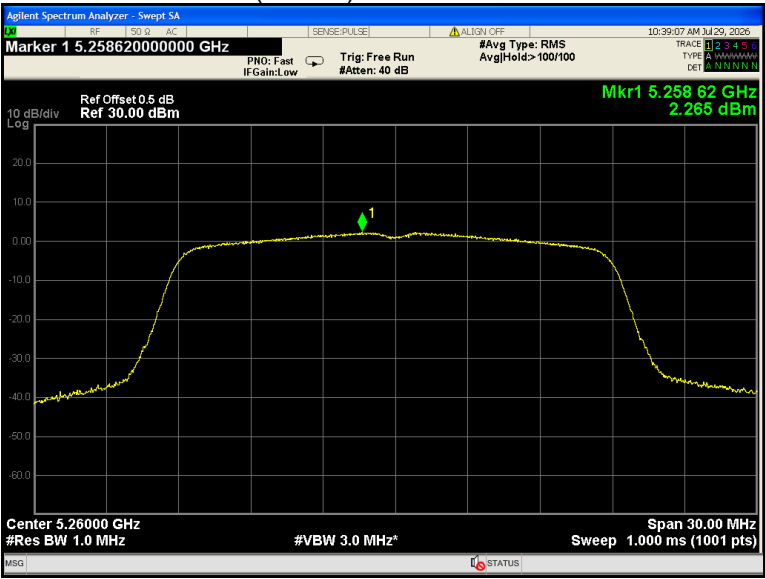
802.11n(HT40) U-NII-2A Low channel



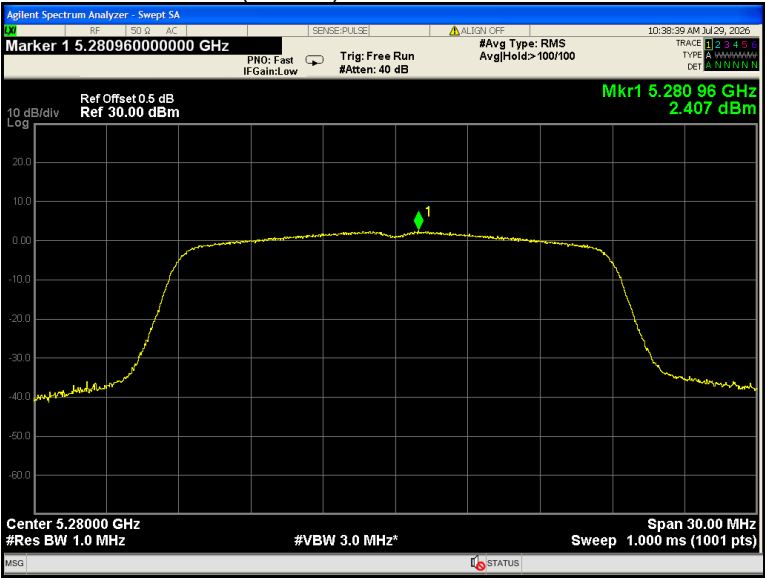
802.11n(HT40) U-NII-2A High channel



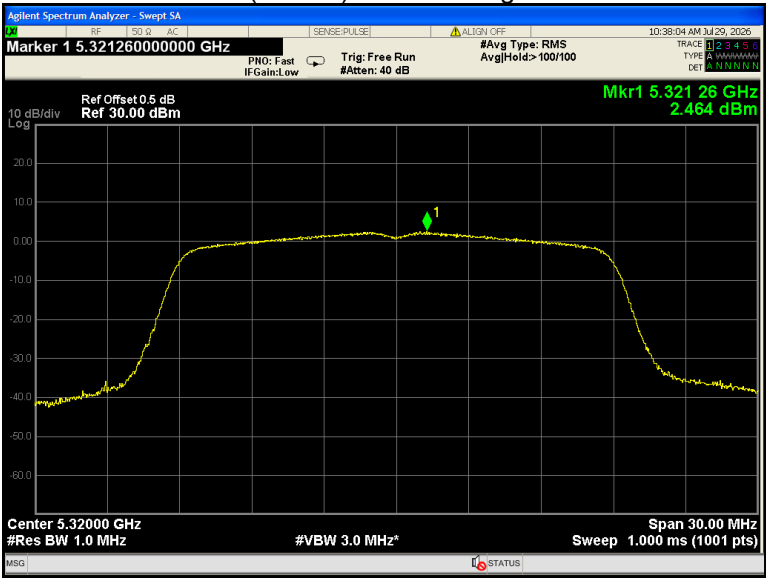
802.11ac(VHT20) U-NII-2A Low channel



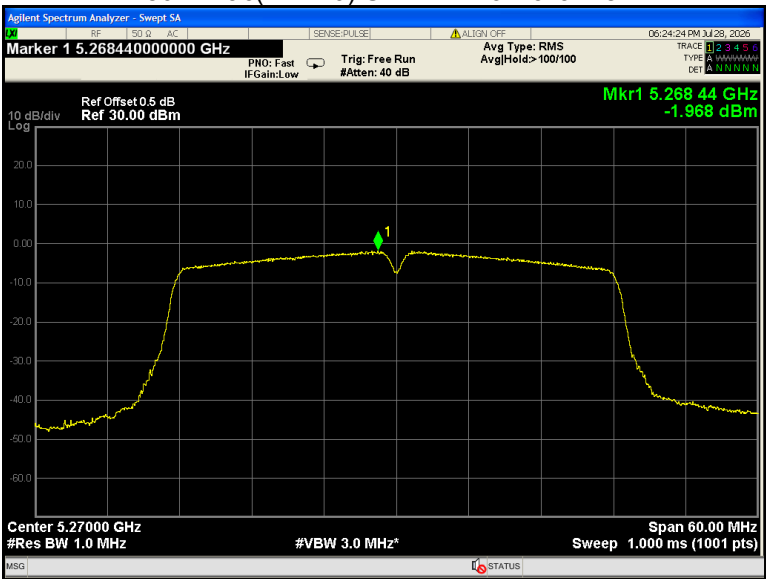
802.11ac(VHT20) U-NII-2A Middle channel



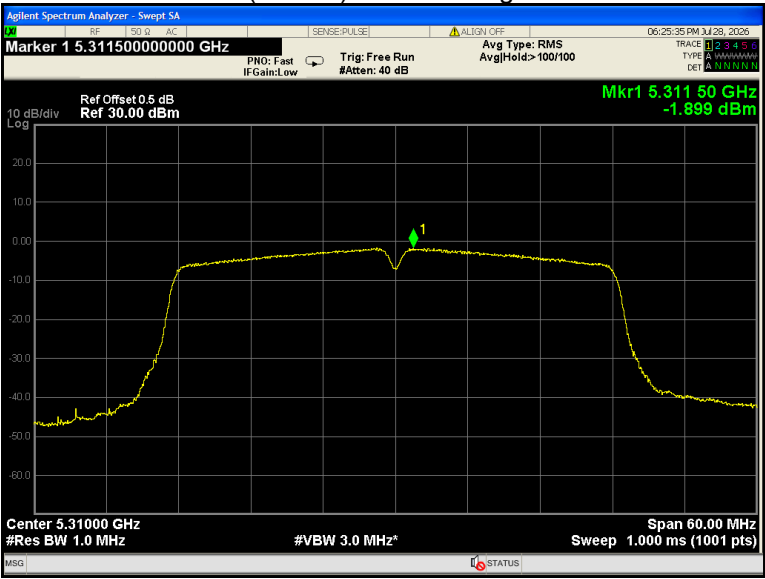
802.11ac(VHT20) U-NII-2A High channel



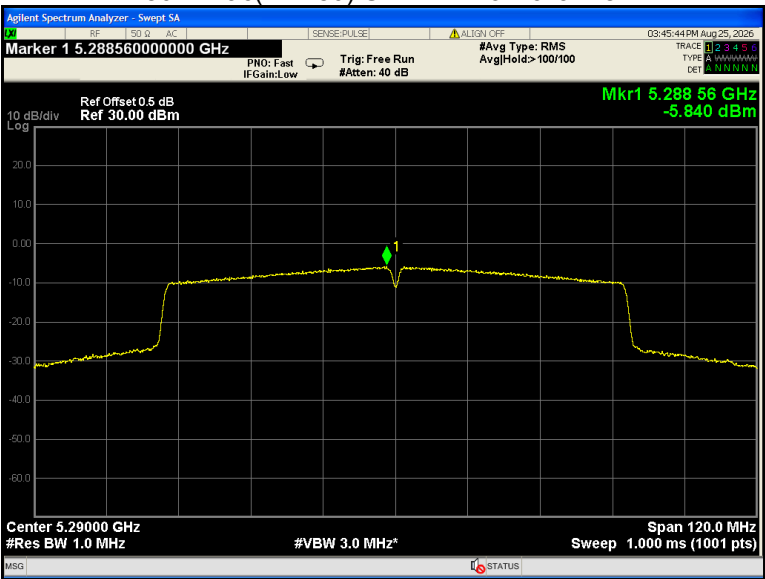
802.11ac(VHT40) U-NII-2A Low channel



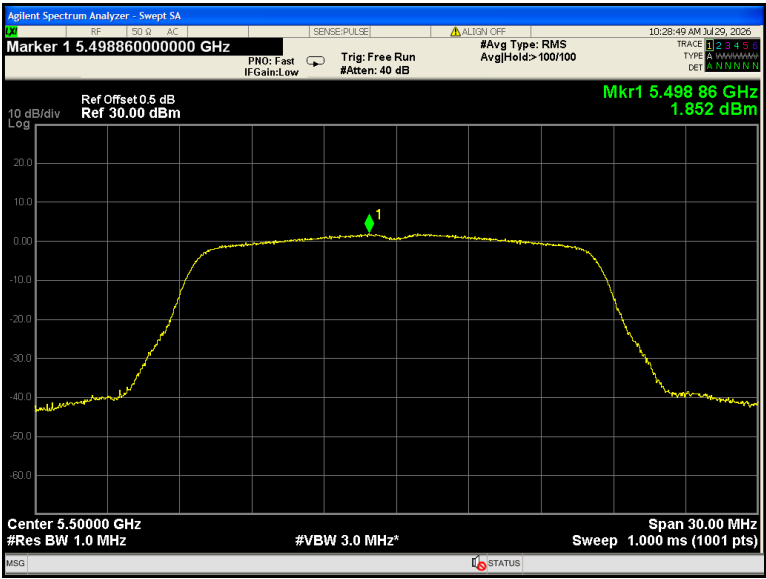
802.11ac(VHT40) U-NII-2A High channel



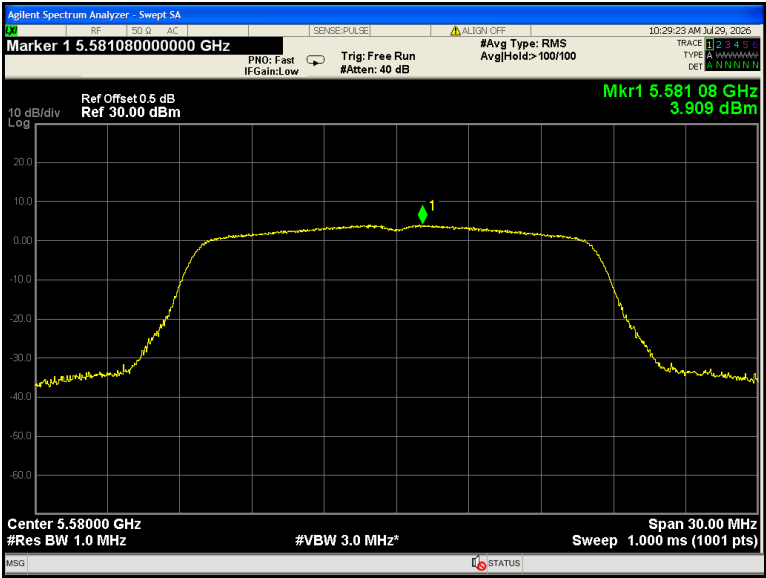
802.11ac(VHT80) U-NII-2A Low channel



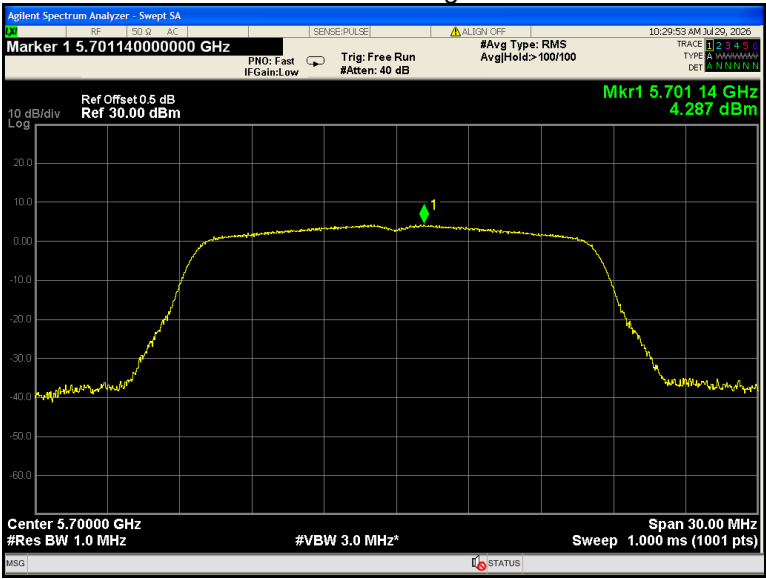
802.11a U-NII-2C Low channel



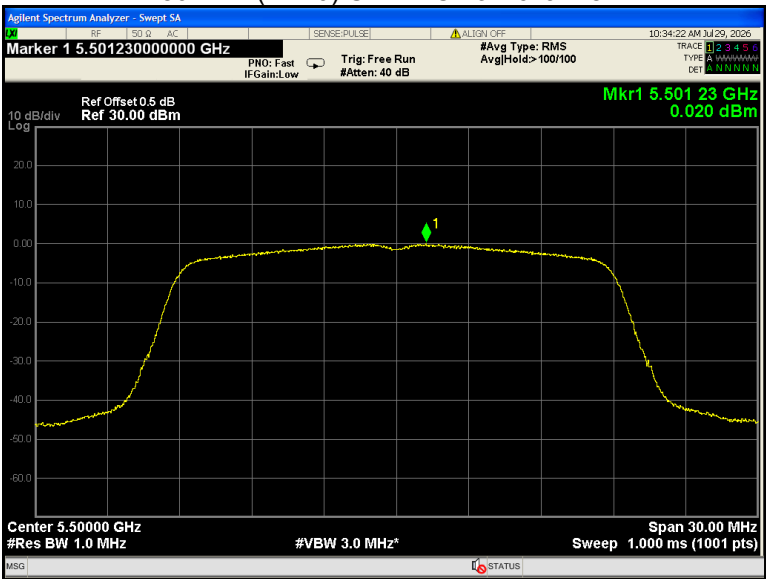
802.11a U-NII-2C Middle channel



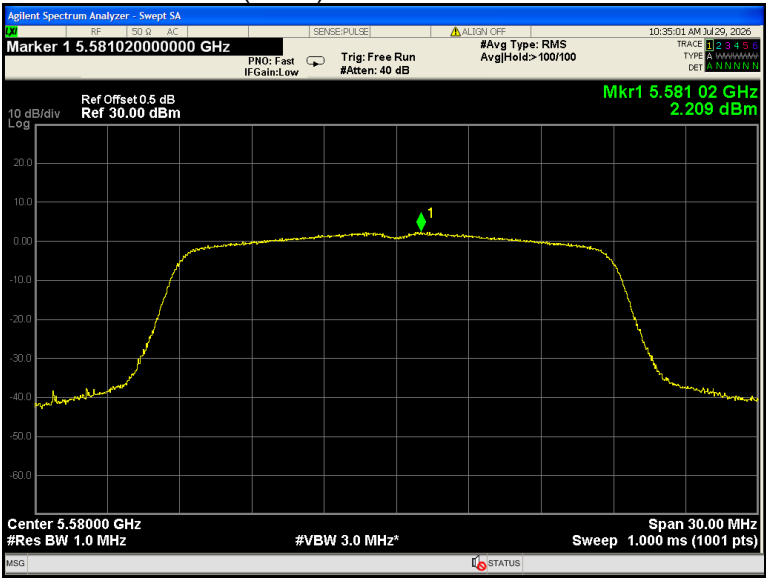
802.11a U-NII-2C High channel



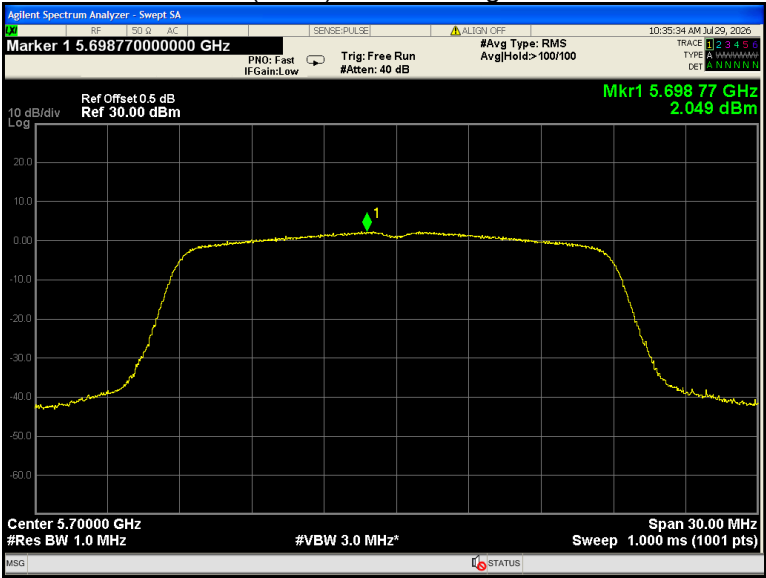
802.11n(HT20) U-NII-2C Low channel



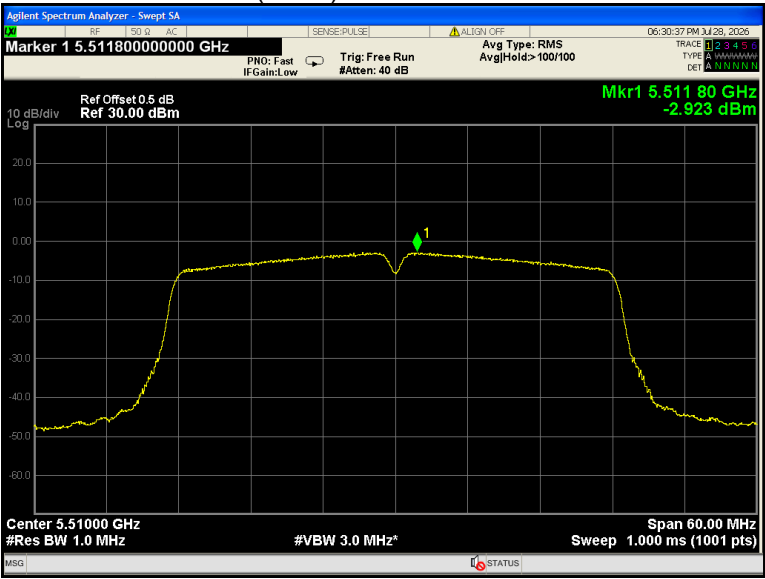
802.11n(HT20) U-NII-2C Middle channel



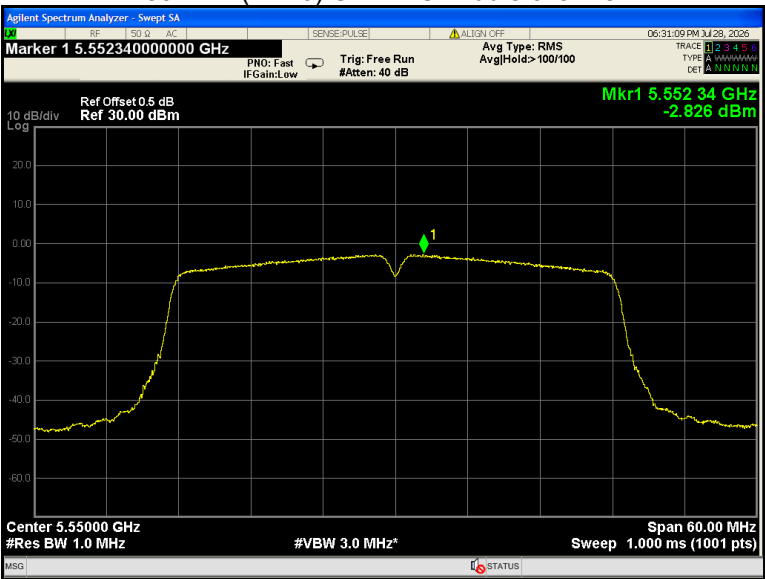
802.11n(HT20) U-NII-2C High channel

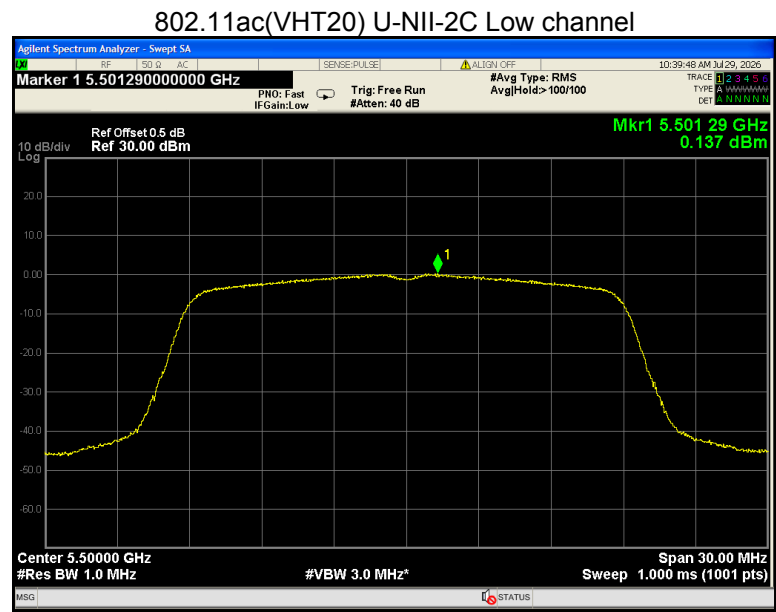
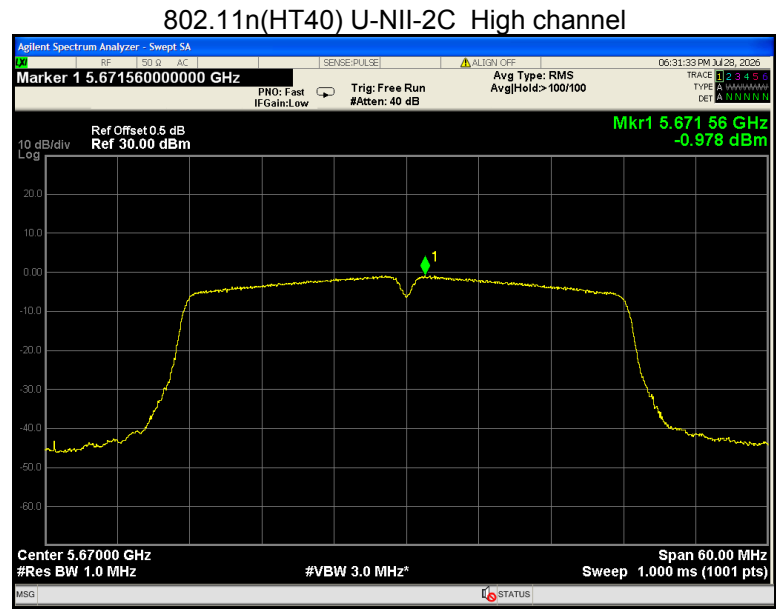


802.11n(HT40) U-NII-2C Low channel

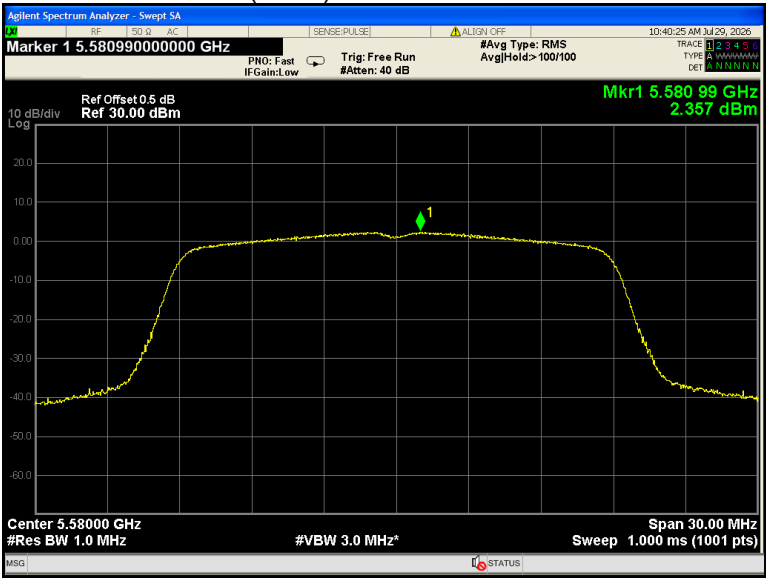


802.11n(HT40) U-NII-2C Middle channel

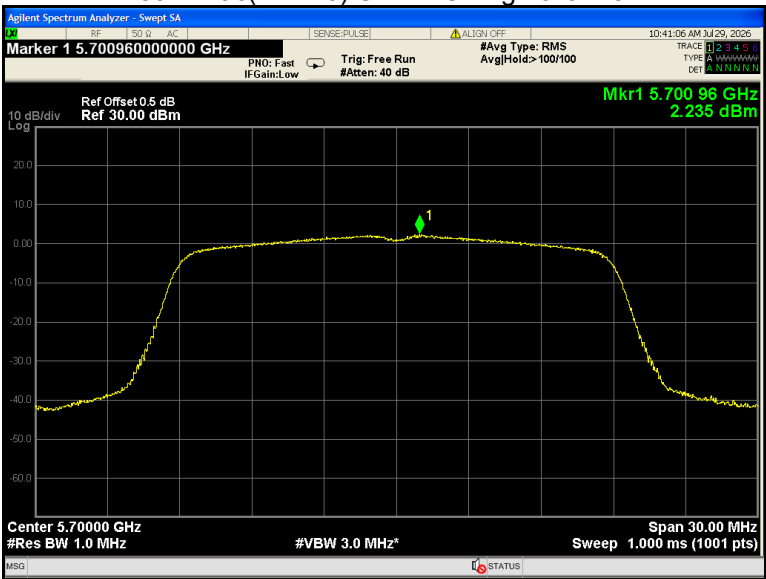




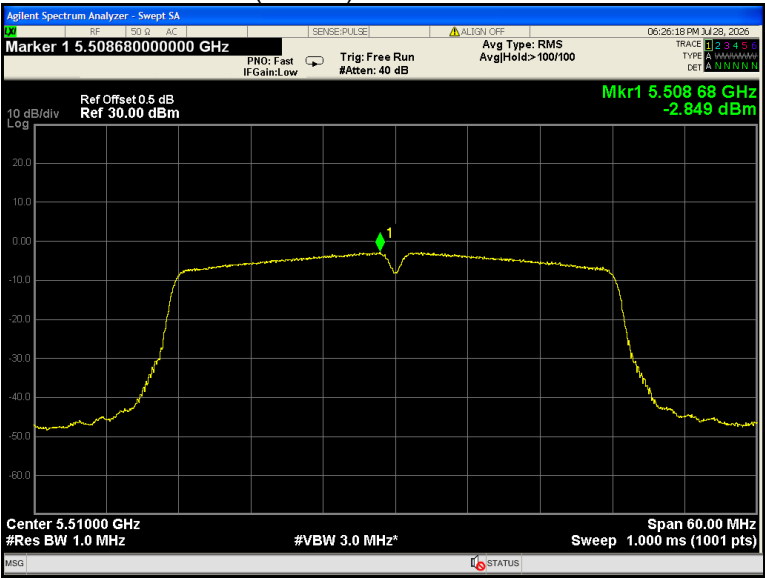
802.11ac(HT20) U-NII-2C Middle channel



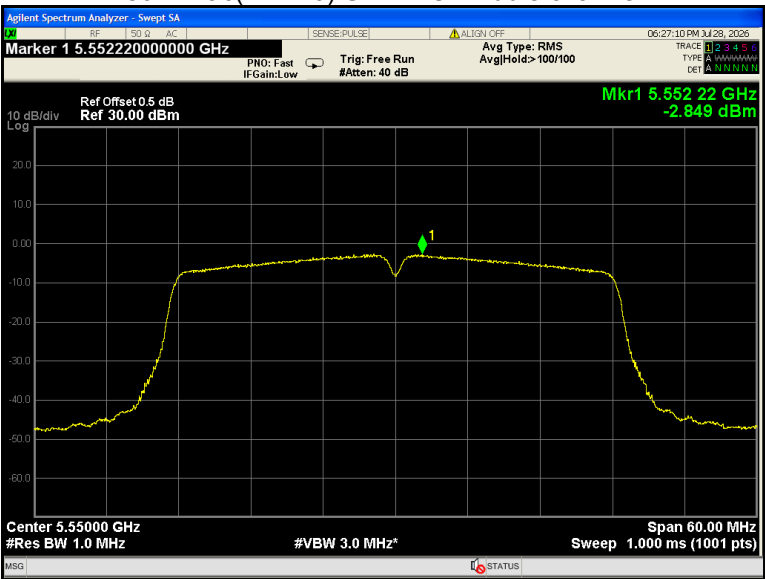
802.11ac(VHT20) U-NII-2C High channel



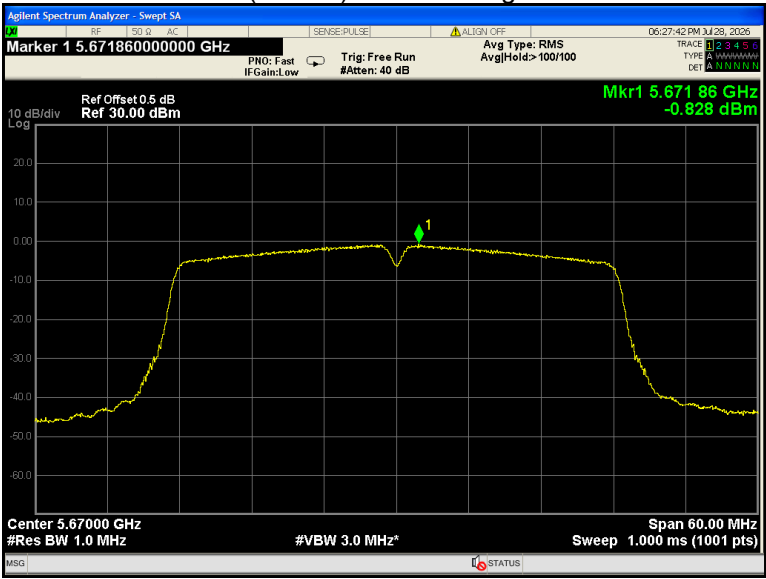
802.11ac(VHT40) U-NII-2C Low channel



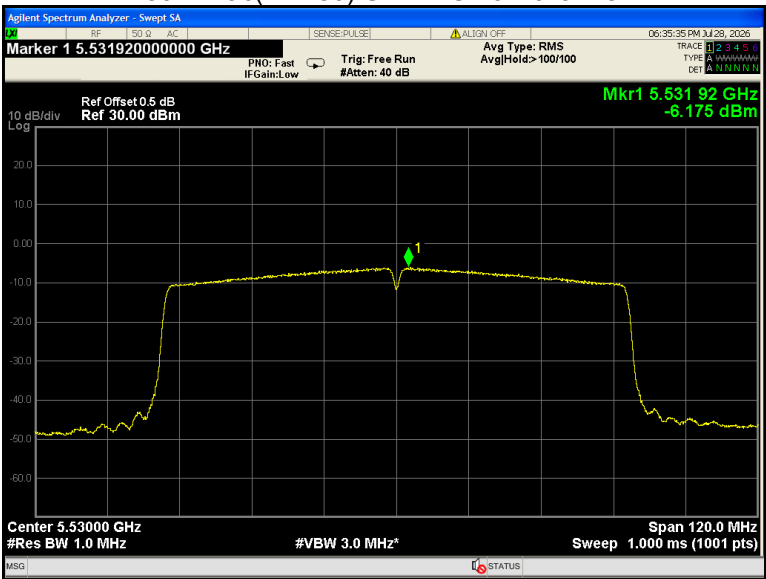
802.11ac(VHT40) U-NII-2C Middle channel



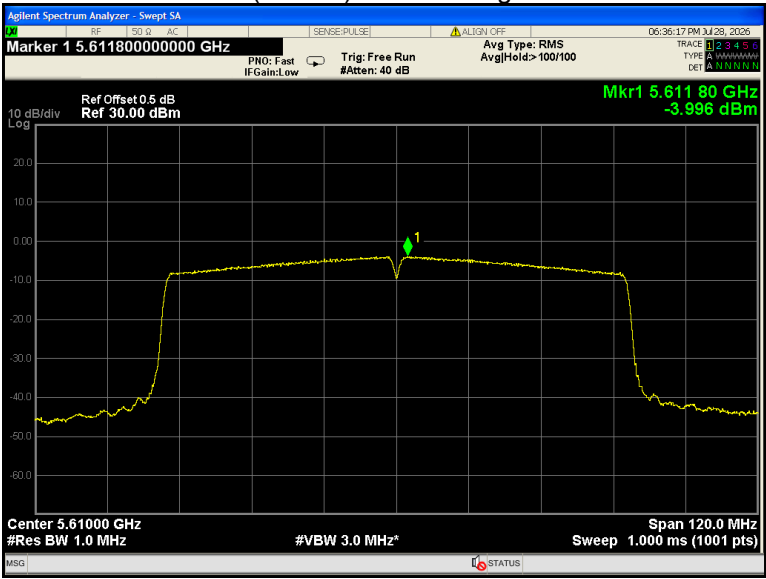
802.11ac(VHT40) U-NII-2C High channel



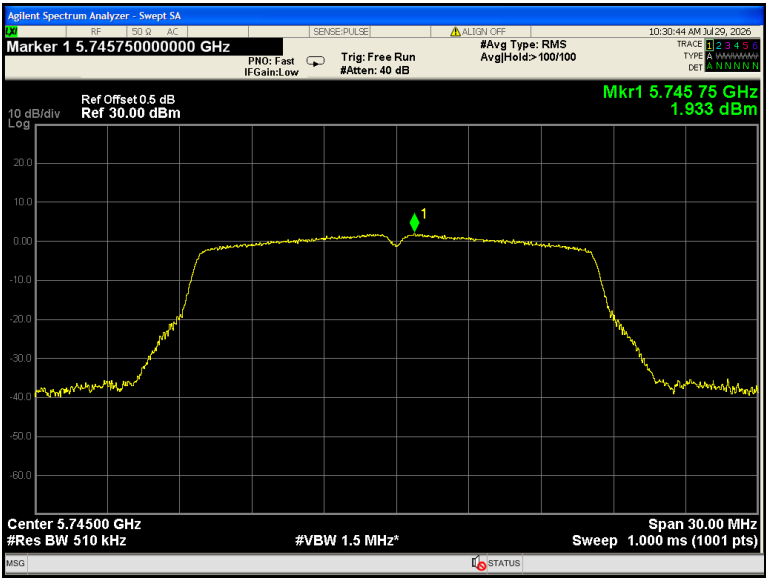
802.11ac(VHT80) U-NII-2C Low channel



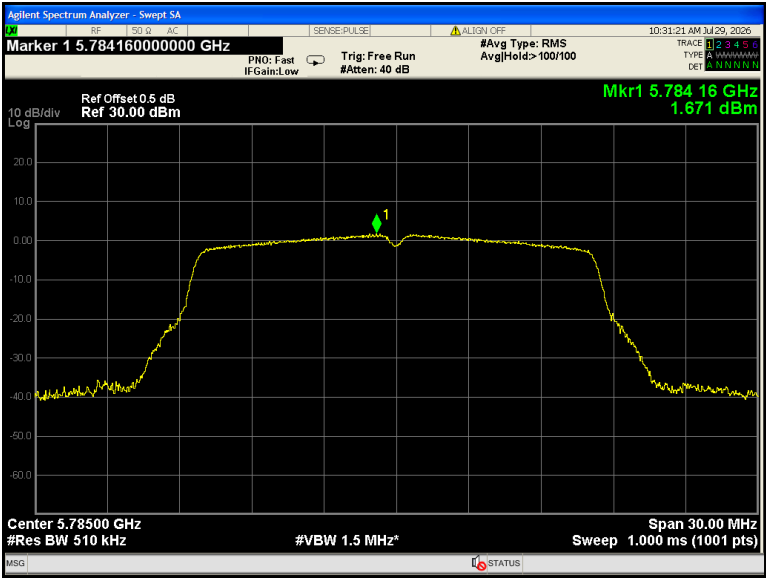
802.11ac(VHT80) U-NII-2C High channel



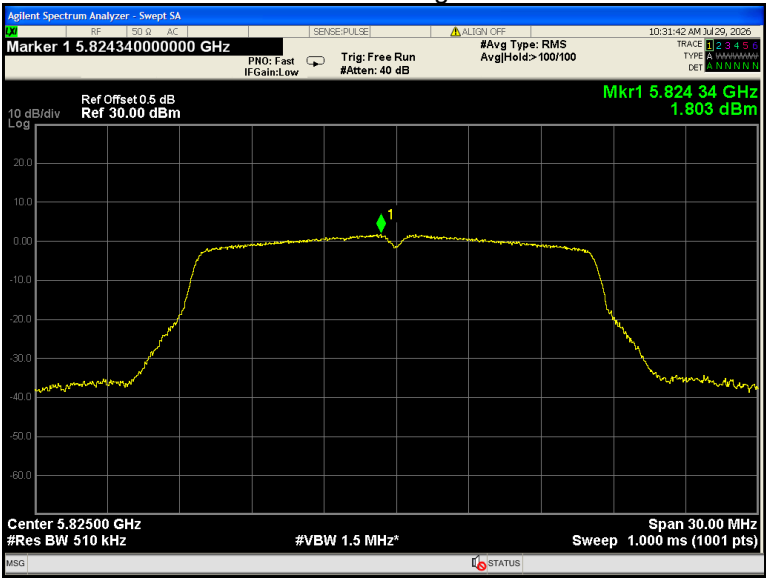
802.11a U-NII-3 Low channel



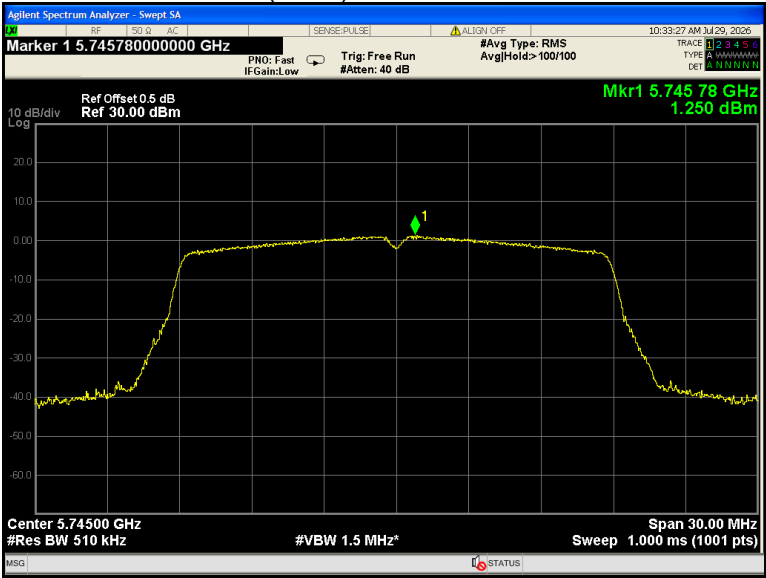
802.11a U-NII-3 Middle channel



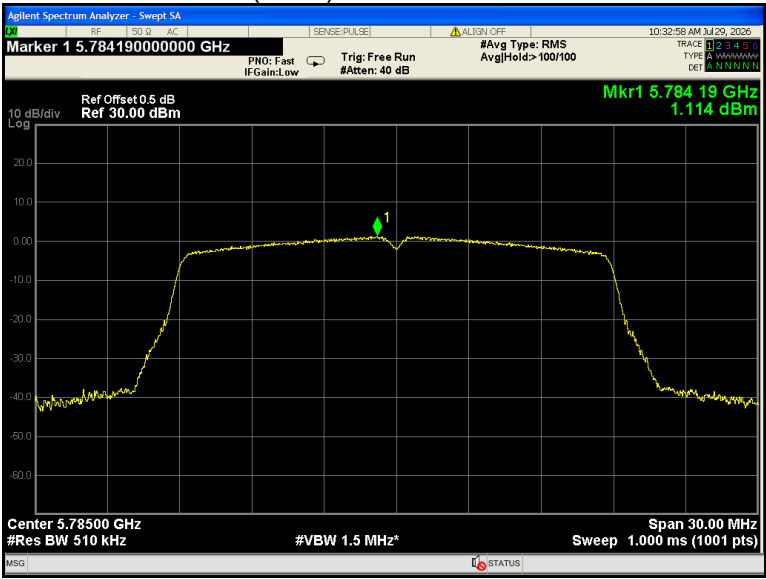
802.11a U-NII-3 High channel



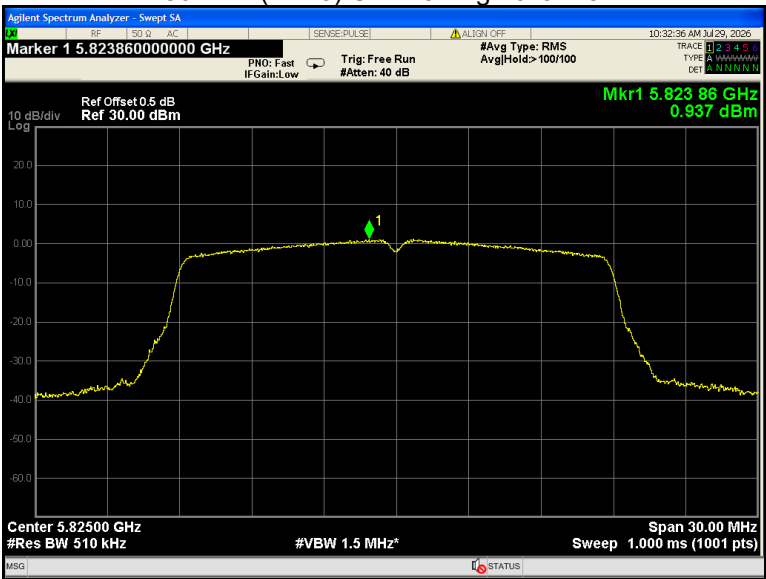
802.11n(HT20) U-NII-3 Low channel



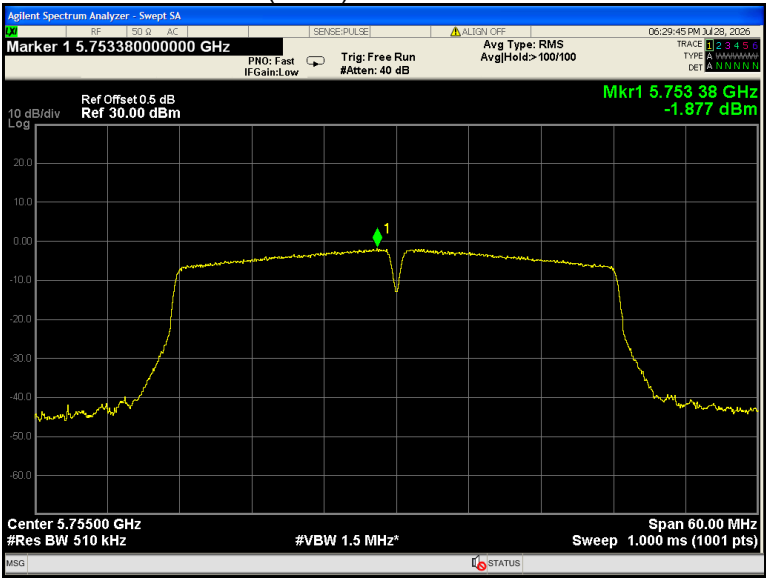
802.11n(HT20) U-NII-3 Middle channel



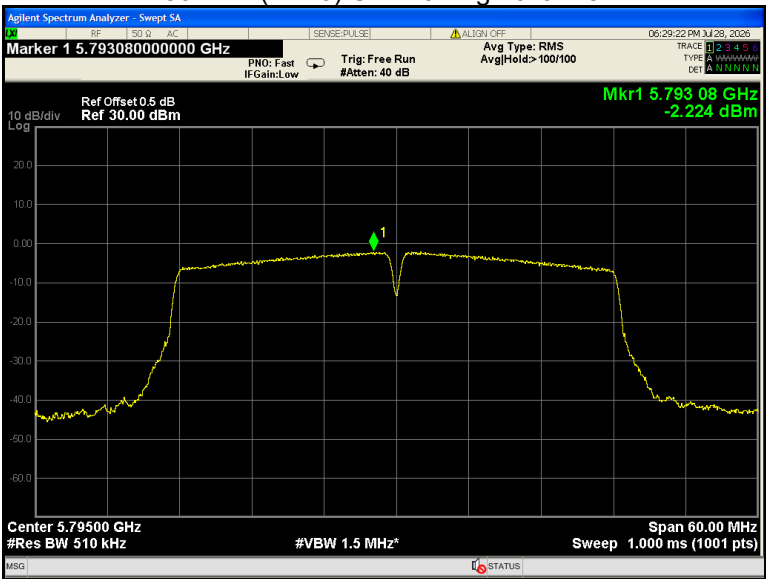
802.11n(HT20) U-NII-3 High channel



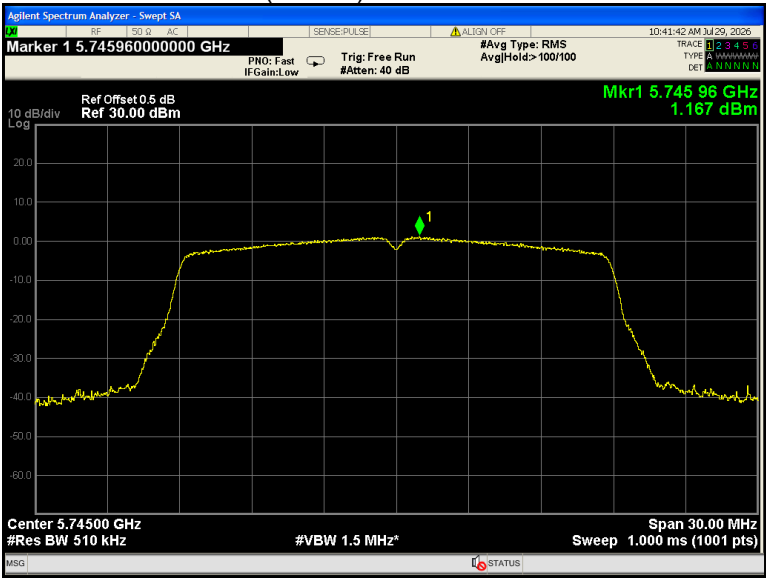
802.11n(HT40) U-NII-3 Low channel



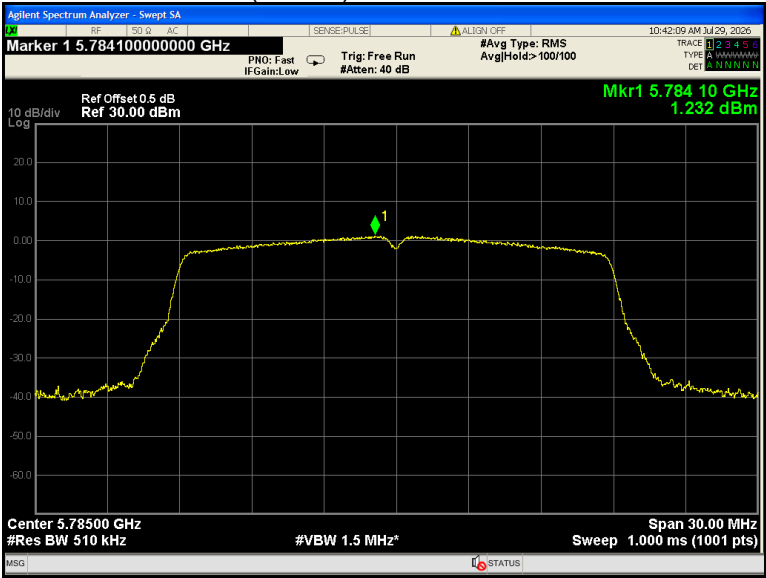
802.11n(HT40) U-NII-3 High channel



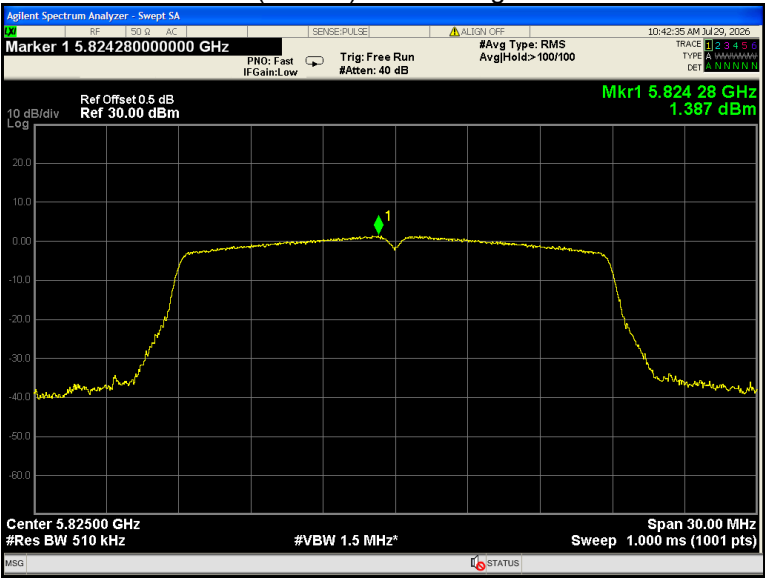
802.11ac(VHT20) U-NII-3 Low channel



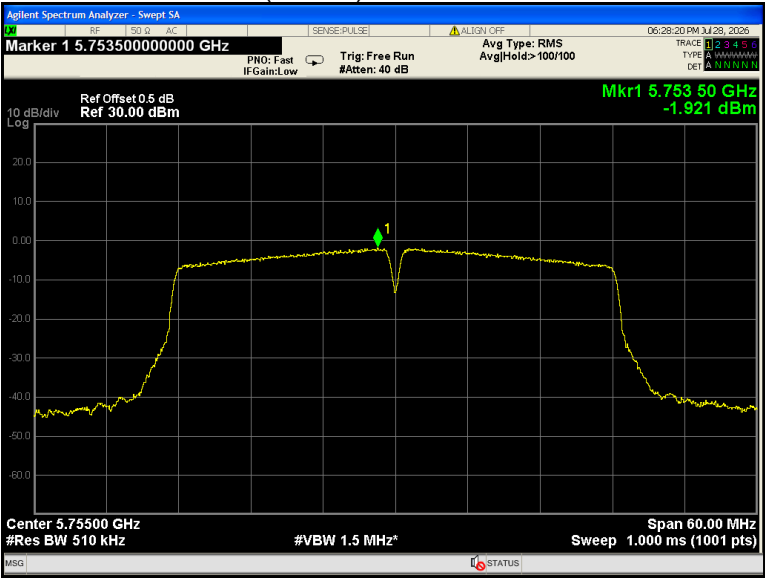
802.11ac(VHT20) U-NII-3 Middle channel



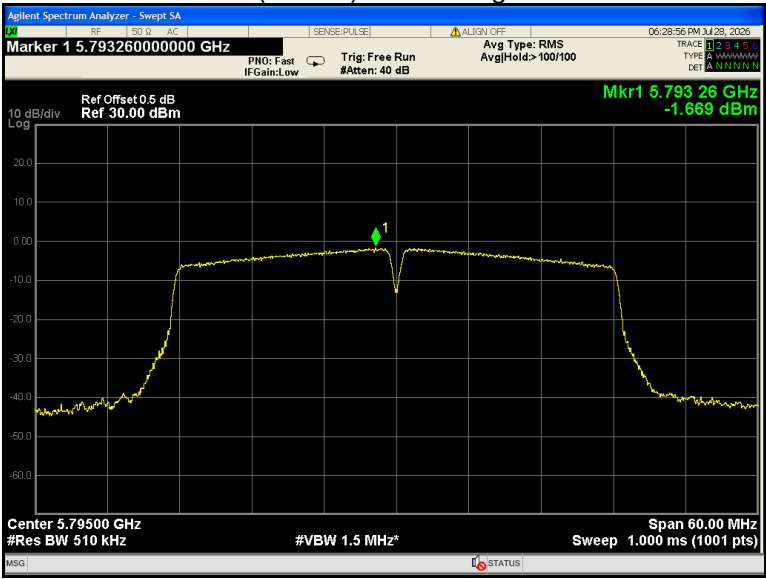
802.11ac(VHT20) U-NII-3 High channel



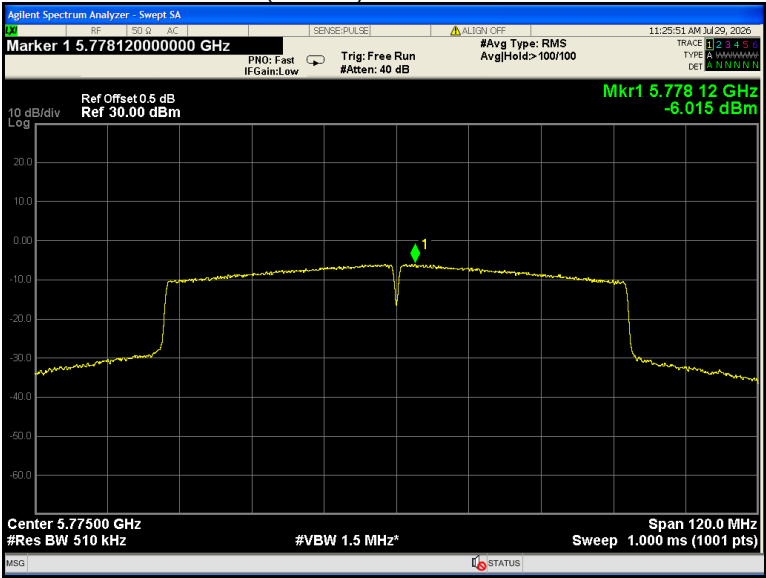
802.11ac(VHT40) U-NII-3 Low channel



802.11ac(VHT40) U-NII-3 High channel



802.11ac(VHT80) U-NII-3 Low channel



15 Frequency Stability

Test Requirement:	FCC 47CFR Part 15 Section 15.407(g)
Test Method:	ANSI C63.10-2020
Test 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 users manual
Test Result:	PASS

15.1 Test Procedure

1. The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure until the highest temperature of +50°C reached. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
2. Extreme temperature rule is -30°C~ 50°C.

15.2 Test Result

Note: only record the worst case result.

U-NII-1 Test Frequency:5180MHz				
Temperature (°C)	Power Supply (VAC)	Frequency Error (MHz)	Frequency Error (ppm)	Limit
50	3.87	-0.0017	-0.33	Within the band
45		0.0058	1.12	Within the band
30		0.0043	0.84	Within the band
20		0.0040	0.77	Within the band
10		0.0007	0.14	Within the band
0		-0.0016	-0.30	Within the band
-10		0.0041	0.79	Within the band
-15		0.0022	0.43	Within the band
-30		-0.0021	-0.40	Within the band
20	3.29	0.0005	0.09	Within the band
20	4.45	-0.0010	-0.20	Within the band

U-NII-2A Test Frequency:5260MHz				
Temperature (°C)	Power Supply (VAC)	Frequency Error (MHz)	Frequency Error (ppm)	Limit
50	3.87	-0.0003	-0.05	Within the band
45		0.0038	0.72	Within the band
30		0.0087	1.66	Within the band
20		0.0030	0.57	Within the band
10		0.0056	1.07	Within the band
0		0.0059	1.12	Within the band
-10		0.0087	1.65	Within the band
-15		0.0054	1.03	Within the band
-30		0.0096	1.82	Within the band
20	3.29	-0.0018	-0.34	Within the band
20	4.45	-0.0044	-0.84	Within the band

U-NII-2C Test Frequency:5500MHz				
Temperature (°C)	Power Supply (VAC)	Frequency Error (MHz)	Frequency Error (ppm)	Limit
50	3.87	-0.0026	-0.47	Within the band
45		-0.0058	-1.06	Within the band
30		0.0047	0.85	Within the band
20		0.0030	0.55	Within the band
10		0.0114	2.08	Within the band
0		0.0000	-0.01	Within the band
-10		0.0044	0.80	Within the band
-15		-0.0005	-0.08	Within the band
-30		0.0026	0.47	Within the band
20	3.29	0.0059	1.08	Within the band
20	4.45	0.0073	1.33	Within the band

U-NII-3 Test Frequency:5785MHz				
Temperature (°C)	Power Supply (VAC)	Frequency Error (MHz)	Frequency Error (ppm)	Limit
50	3.87	0.0031	0.54	Within the band
45		0.0043	0.74	Within the band
30		0.0021	0.36	Within the band
20		0.0020	0.35	Within the band
10		0.0030	0.52	Within the band
0		-0.0013	-0.22	Within the band
-10		0.0055	0.94	Within the band
-15		-0.0056	-0.97	Within the band
-30		0.0087	1.51	Within the band
20	3.29	0.0037	0.64	Within the band
20	4.45	0.0003	0.05	Within the band

16 Antenna Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

This device uses of a FPC Antenna that uses a specified coupling to the intentional radiator. Antenna connectors complied with the requirement.

17 RF Exposure

Remark: Please refer to SAR test report: WTX26X07201760W.

18 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix-Black S3-Photos.

=====End of Report=====