Appendix A: Test results

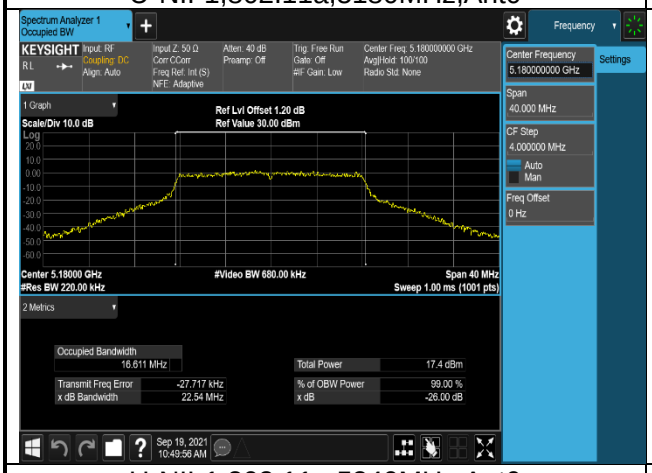
1. Occupied N dB Bandwidth

1.1 Test Data

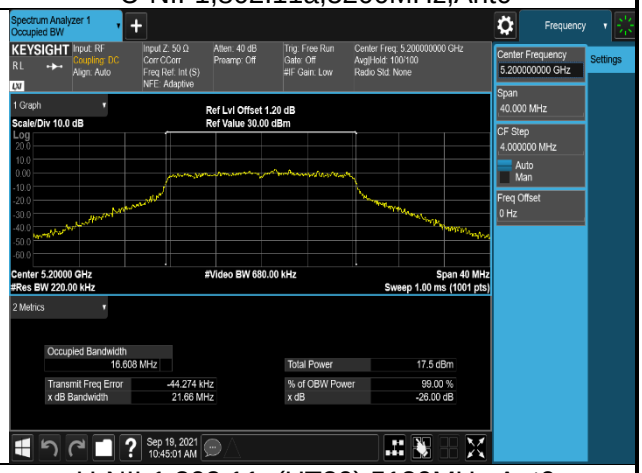
U-NII-1 Occupied N dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11a	5180	Ant0	22.54	Pass
802.11a	5200	Ant0	21.66	Pass
802.11a	5240	Ant0	22.44	Pass
802.11n (HT20)	5180	Ant0	23.33	Pass
802.11n (HT20)	5240	Ant0	22.54	Pass
802.11n (HT40)	5190	Ant0	41.14	Pass
802.11n (HT40)	5230	Ant0	41.13	Pass
802.11ac (VHT80)	5210	Ant0	82.40	Pass

1.2 Test Plots

U-NII-1,802.11a,5180MHz,Ant0

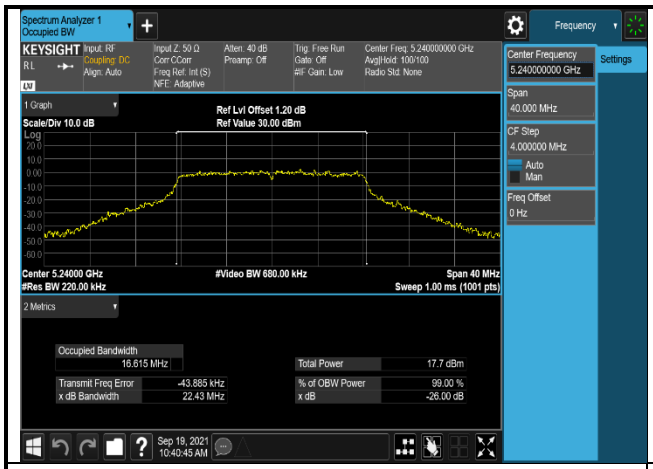


U-NII-1,802.11a,5200MHz,Ant0

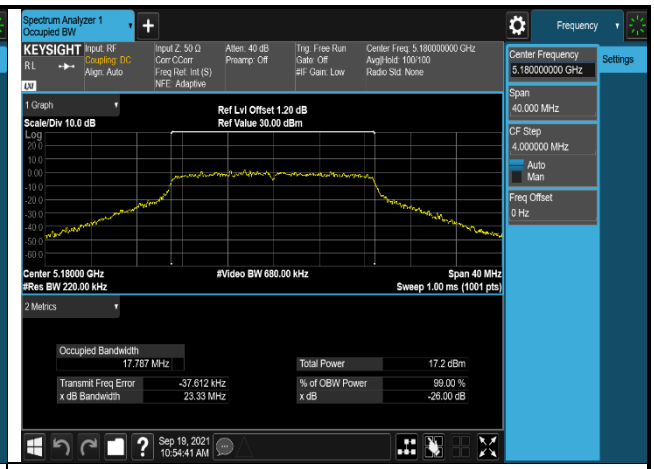


U-NII-1,802.11a,5240MHz,Ant0

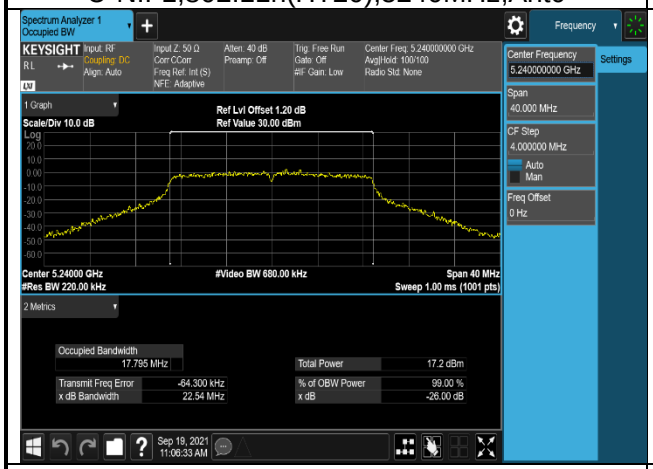
U-NII-1,802.11n(HT20),5180MHz,Ant0



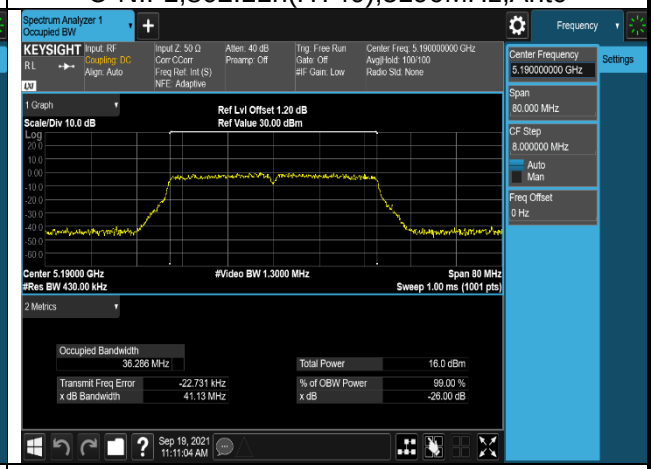
U-NII-1,802.11n(HT20),5240MHz,Ant0



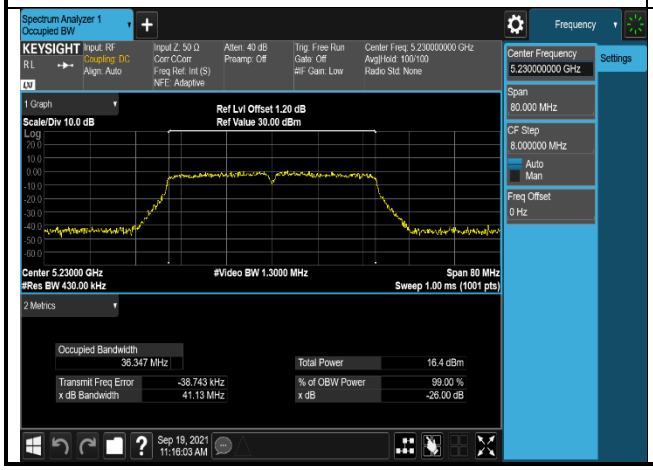
U-NII-1,802.11n(HT40),5190MHz,Ant0

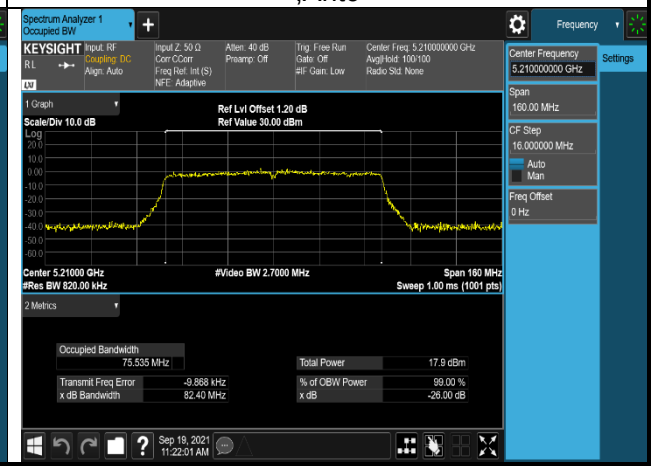


U-NII-1,802.11n(HT40),5230MHz,Ant0



U-NII-1,802.11ac(VHT80),5210MHz
,Ant0





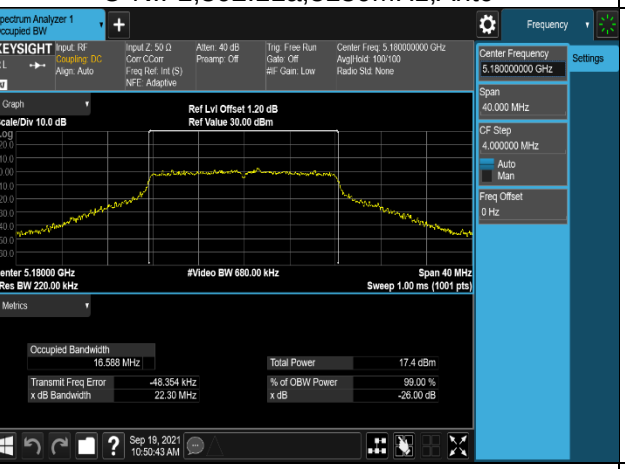
2. 99% Occupied Bandwidth

2.1 Test Data

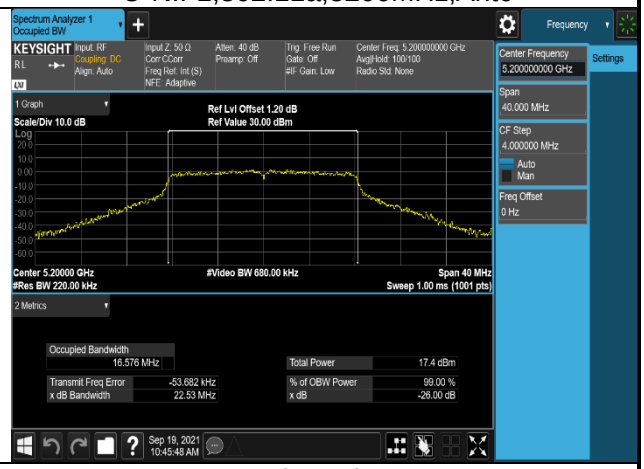
U-NII-1 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11a	5180	Ant0	16.588	Pass
802.11a	5200	Ant0	16.576	Pass
802.11a	5240	Ant0	16.618	Pass
802.11n (HT20)	5180	Ant0	17.768	Pass
802.11n (HT20)	5200	Ant0	17.802	Pass
802.11n (HT20)	5240	Ant0	17.827	Pass
802.11n (HT40)	5190	Ant0	36.324	Pass
802.11n (HT40)	5230	Ant0	36.252	Pass
802.11ac (VHT80)	5210	Ant0	75.605	Pass

2.2 Test Plots

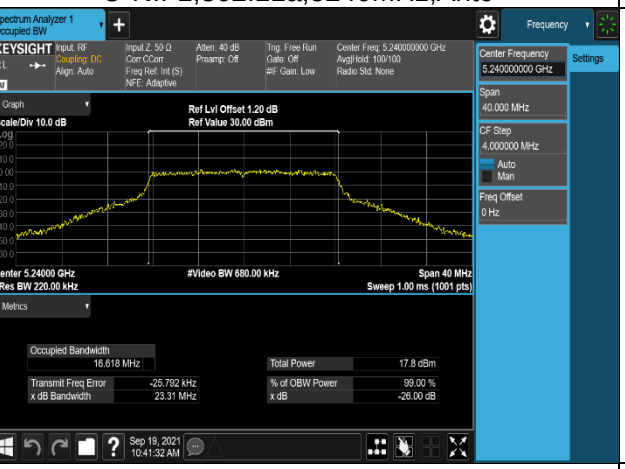
U-NII-1,802.11a,5180MHz,Ant0



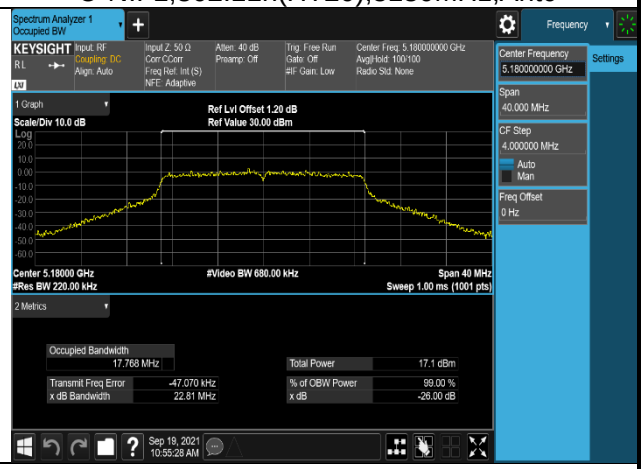
U-NII-1,802.11a,5200MHz,Ant0



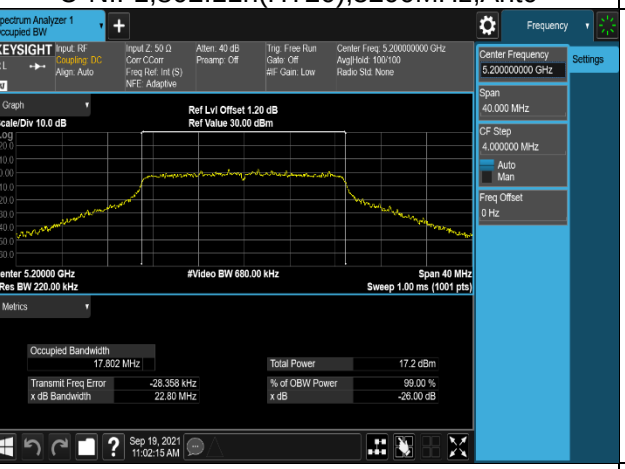
U-NII-1,802.11a,5240MHz,Ant0



U-NII-1,802.11n(HT20),5180MHz,Ant0

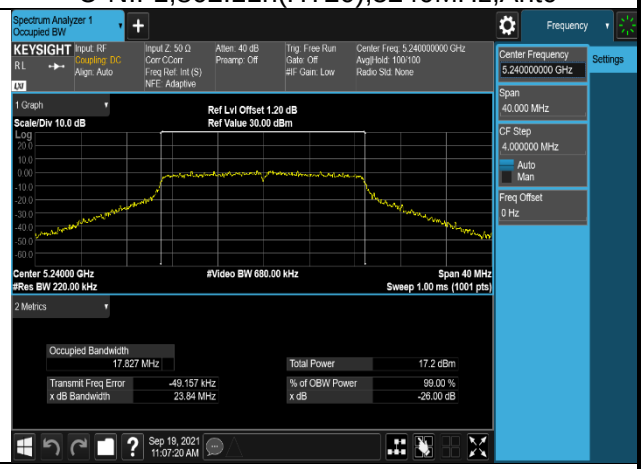


U-NII-1,802.11n(HT20),5200MHz,Ant0

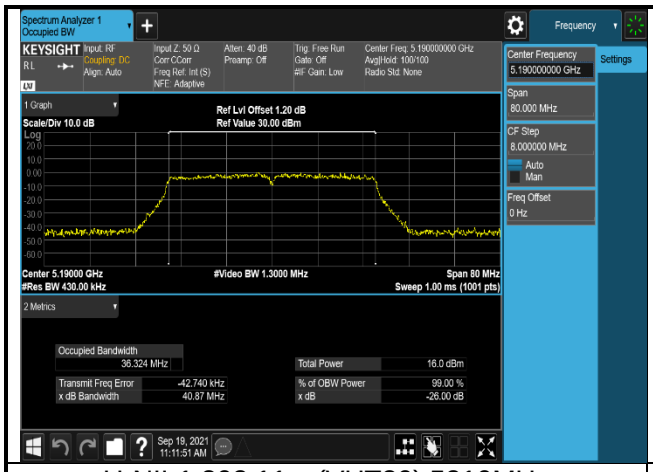


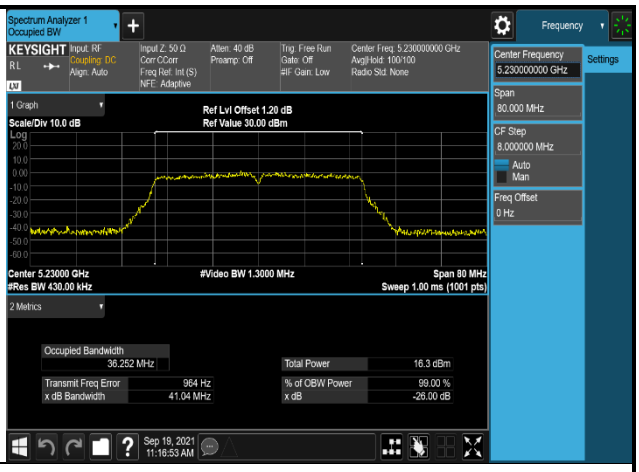
U-NII-1,802.11n(HT40),5190MHz,Ant0

U-NII-1,802.11n(HT20),5240MHz,Ant0

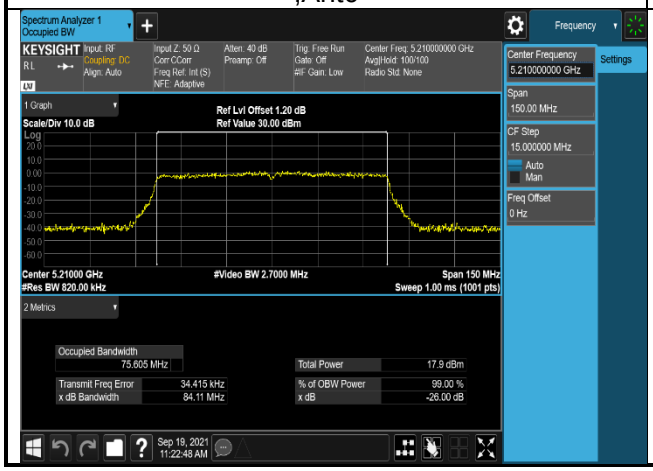


U-NII-1,802.11n(HT40),5230MHz,Ant0





U-NII-1,802.11ac(VHT80),5210MHz ,Ant0



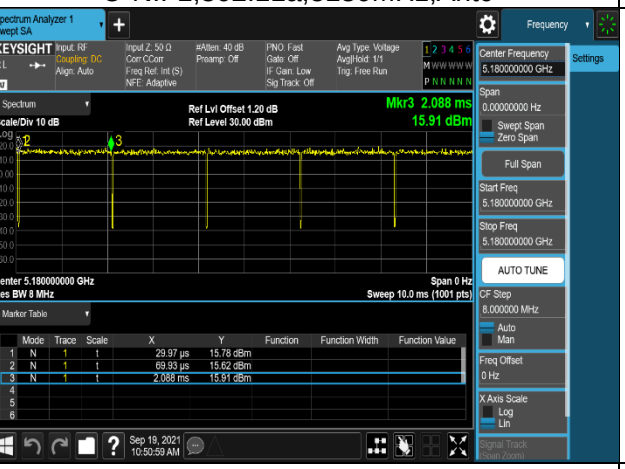
3. Duty Cycle

3.1 Test Data

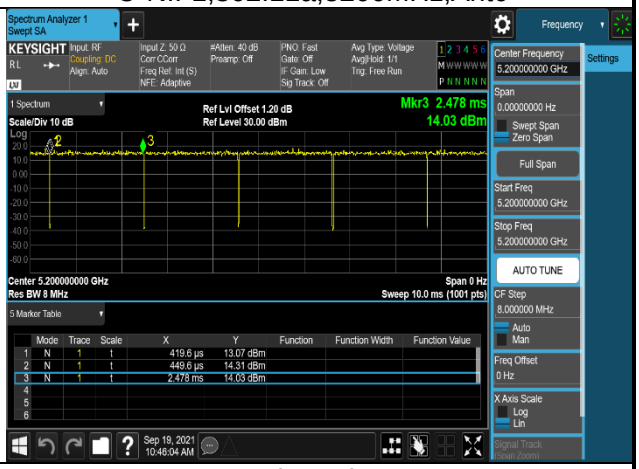
U-NII-1 Duty Cycle				
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11a	5180	Ant0	98.06	0.00
802.11a	5200	Ant0	98.54	0.00
802.11a	5240	Ant0	98.54	0.00
802.11n (HT20)	5180	Ant0	98.28	0.00
802.11n (HT20)	5200	Ant0	97.70	0.10
802.11n (HT20)	5240	Ant0	98.28	0.00
802.11n (HT40)	5190	Ant0	95.45	0.20
802.11n (HT40)	5230	Ant0	96.55	0.15
802.11ac (VHT80)	5210	Ant0	92.22	0.35

3.2 Test Plots

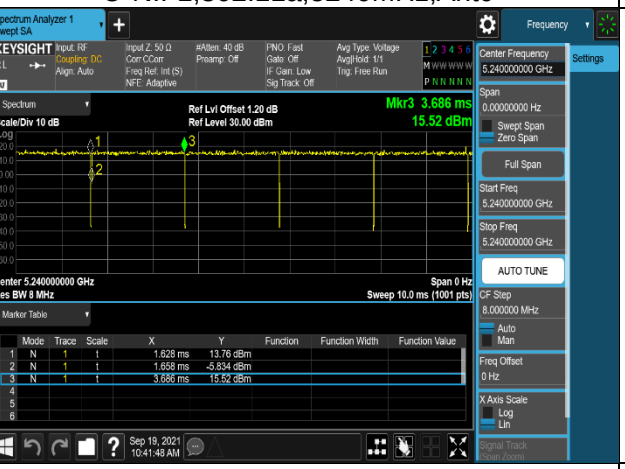
U-NII-1,802.11a,5180MHz,Ant0



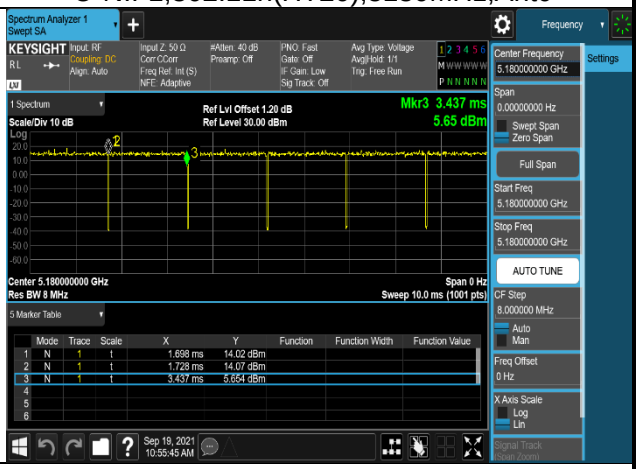
U-NII-1,802.11a,5200MHz,Ant0



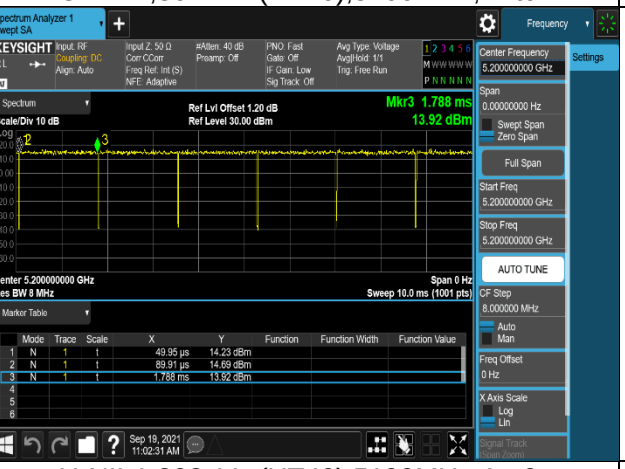
U-NII-1,802.11a,5240MHz,Ant0



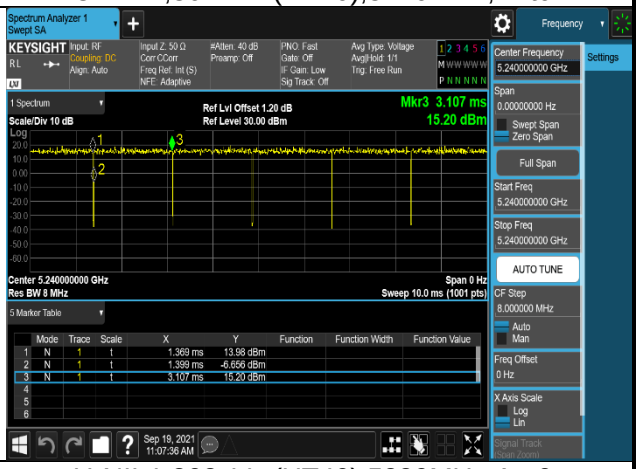
U-NII-1,802.11n(HT20),5180MHz,Ant0



U-NII-1,802.11n(HT20),5200MHz,Ant0

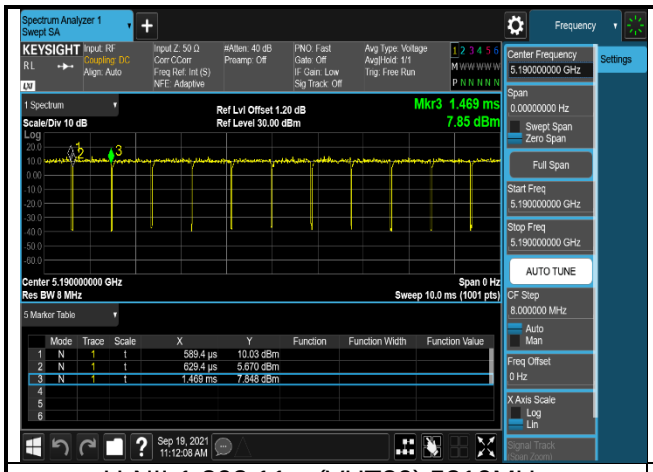


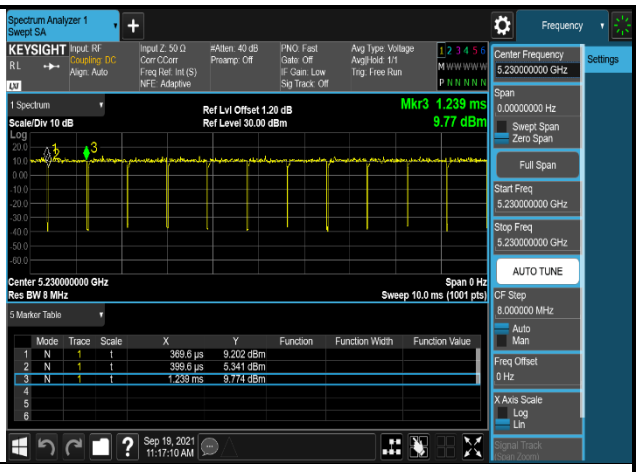
U-NII-1,802.11n(HT20),5240MHz,Ant0



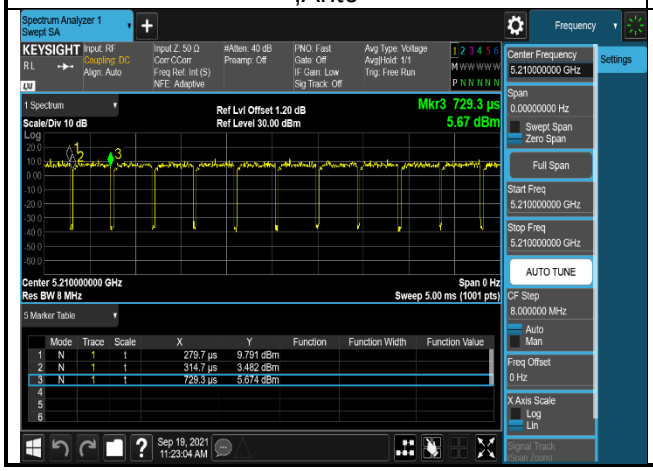
U-NII-1,802.11n(HT40),5190MHz,Ant0

U-NII-1,802.11n(HT40),5230MHz,Ant0





U-NII-1,802.11ac(VHT80),5210MHz ,Ant0



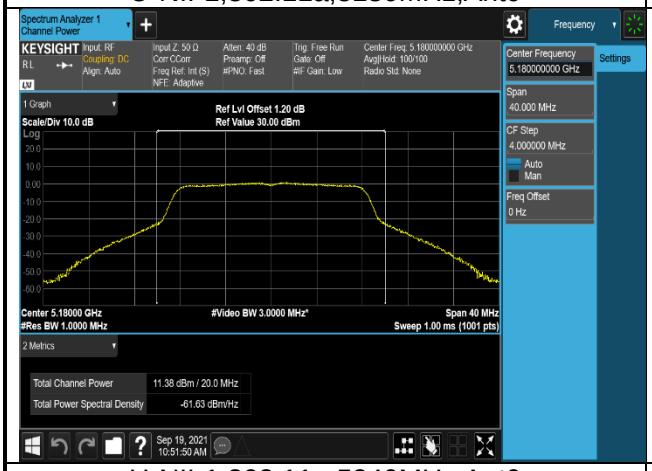
4. AVGSA Output Power

4.1 Test Data

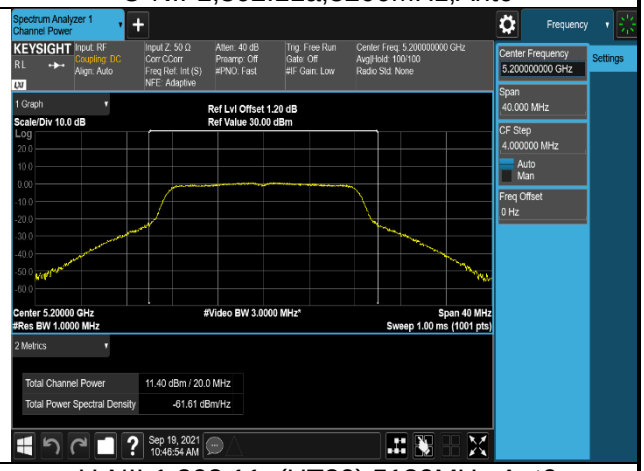
U-NII-1 AVGSA Output Power							
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Limit (dBm)	EIRP (dBm)	Result
802.11a	5180	Ant0	0.00	11.38	24	13.38	Pass
802.11a	5200	Ant0	0.00	11.40	24	13.40	Pass
802.11a	5240	Ant0	0.00	11.70	24	13.70	Pass
802.11n (HT20)	5180	Ant0	0.00	10.58	24	12.58	Pass
802.11n (HT20)	5200	Ant0	0.10	11.24	24	13.24	Pass
802.11n (HT20)	5240	Ant0	0.00	11.33	24	13.33	Pass
802.11n (HT40)	5190	Ant0	0.20	9.71	24	11.71	Pass
802.11n (HT40)	5230	Ant0	0.15	10.01	24	12.01	Pass
802.11ac (VHT80)	5210	Ant0	0.35	10.44	24	12.44	Pass

4.2 Test Plots

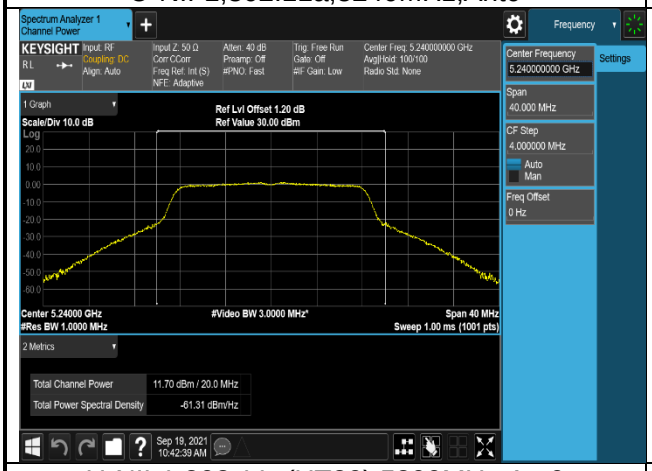
U-NII-1,802.11a,5180MHz,Ant0



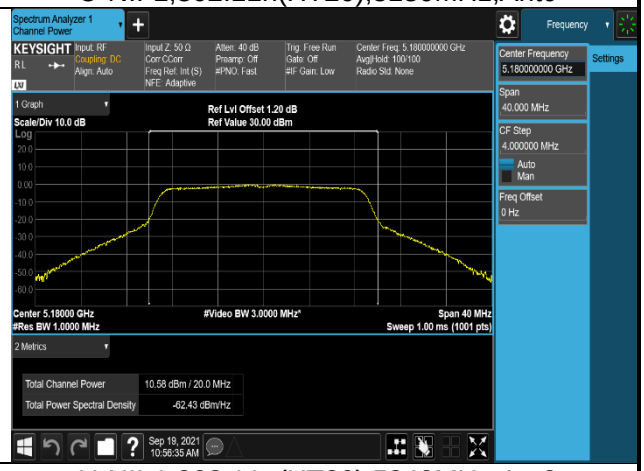
U-NII-1,802.11a,5200MHz,Ant0



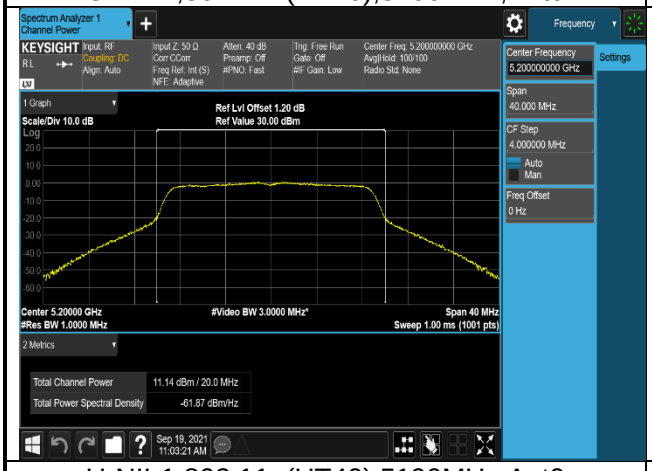
U-NII-1,802.11a,5240MHz,Ant0



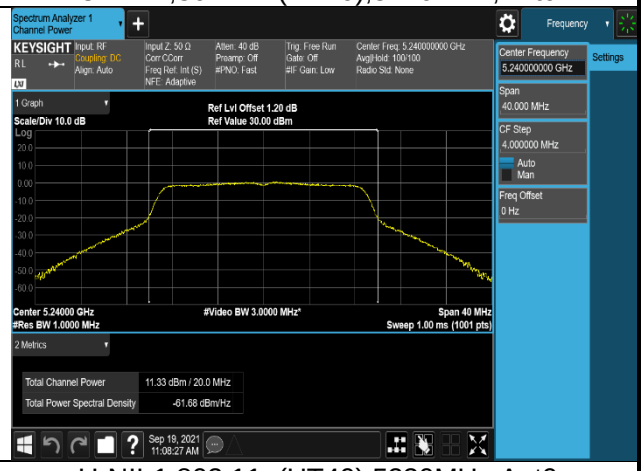
U-NII-1,802.11n(HT20),5180MHz,Ant0



U-NII-1,802.11n(HT20),5200MHz,Ant0

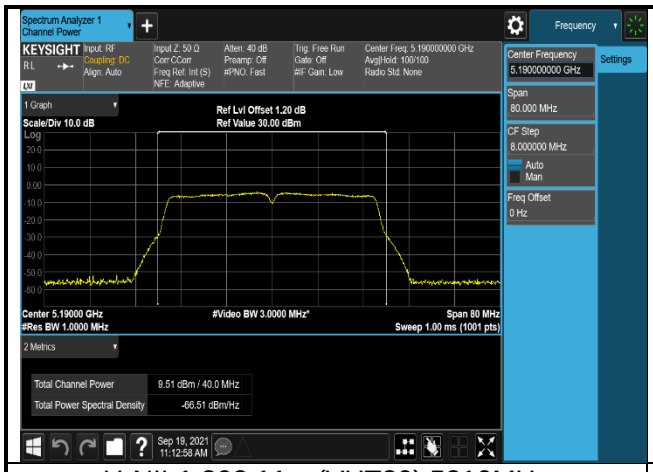


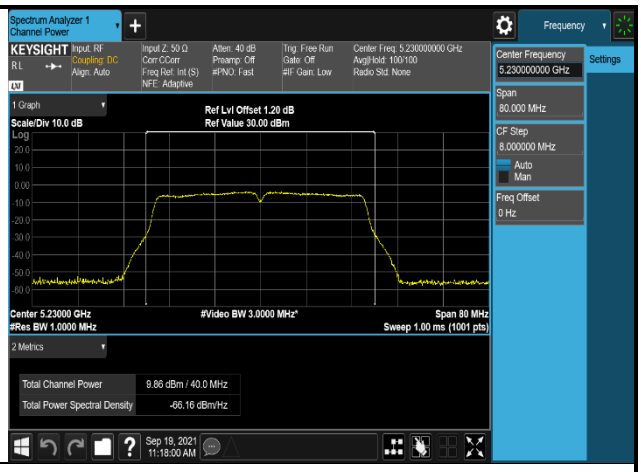
U-NII-1,802.11n(HT20),5240MHz,Ant0



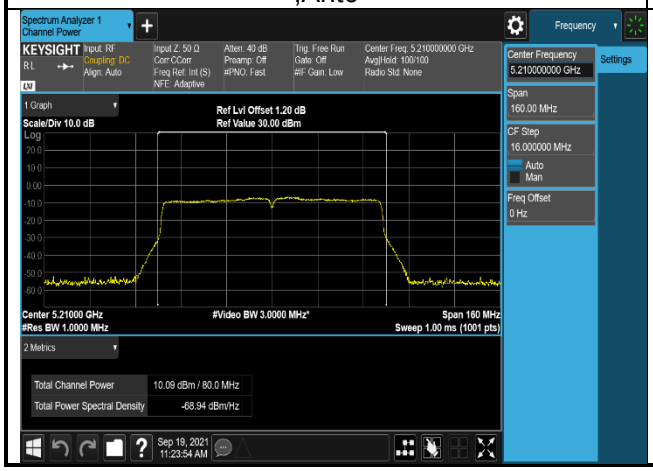
U-NII-1,802.11n(HT40),5190MHz,Ant0

U-NII-1,802.11n(HT40),5230MHz,Ant0





U-NII-1,802.11ac(VHT80),5210MHz ,Ant0



5. AVGSA Power Spectral Density

5.1 Test Data

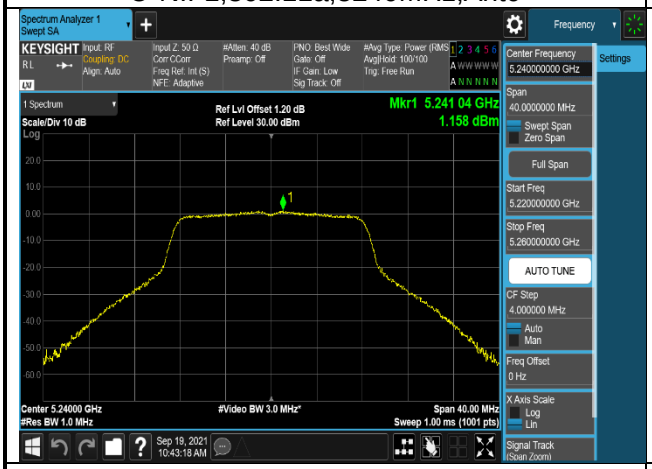
U-NII-1 AVGSA Power Spectral Density							
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	PSD (dBm)	RBW (kHz)	Limit (dBm)	Result
802.11a	5180	Ant0	0.00	0.923	1000	11	Pass
802.11a	5200	Ant0	0.00	1.010	1000	11	Pass
802.11a	5240	Ant0	0.00	1.158	1000	11	Pass
802.11n (HT20)	5180	Ant0	0.00	0.444	1000	11	Pass
802.11n (HT20)	5200	Ant0	0.10	0.395	1000	11	Pass
802.11n (HT20)	5240	Ant0	0.00	0.622	1000	11	Pass
802.11n (HT40)	5190	Ant0	0.20	-4.048	1000	11	Pass
802.11n (HT40)	5230	Ant0	0.15	-3.700	1000	11	Pass
802.11ac (VHT80)	5210	Ant0	0.35	-6.372	1000	11	Pass

5.2 Test Plots

U-NII-1,802.11a,5180MHz,Ant0

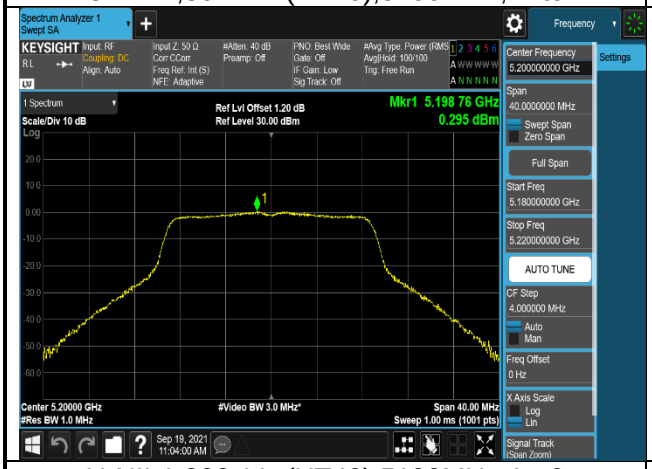
U-NII-1,802.11a,5200MHz,Ant0

U-NII-1,802.11a,5240MHz,Ant0



U-NII-1,802.11n(HT20),5180MHz,Ant0

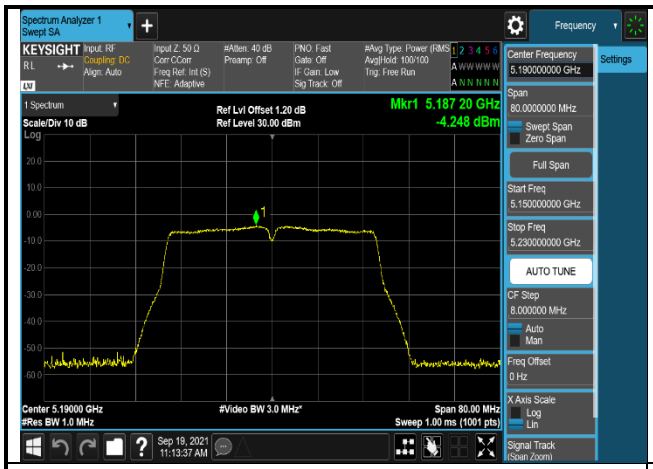
U-NII-1,802.11n(HT20),5200MHz,Ant0

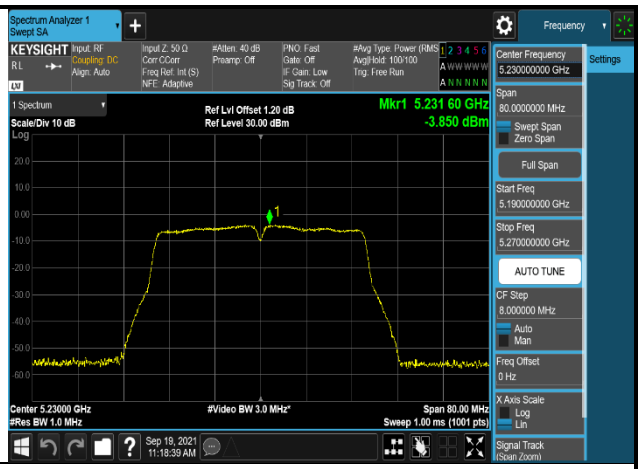


U-NII-1,802.11n(HT20),5240MHz,Ant0

U-NII-1,802.11n(HT40),5190MHz,Ant0

U-NII-1,802.11n(HT40),5230MHz,Ant0





U-NII-1,802.11ac(VHT80),5210MHz ,Ant0