

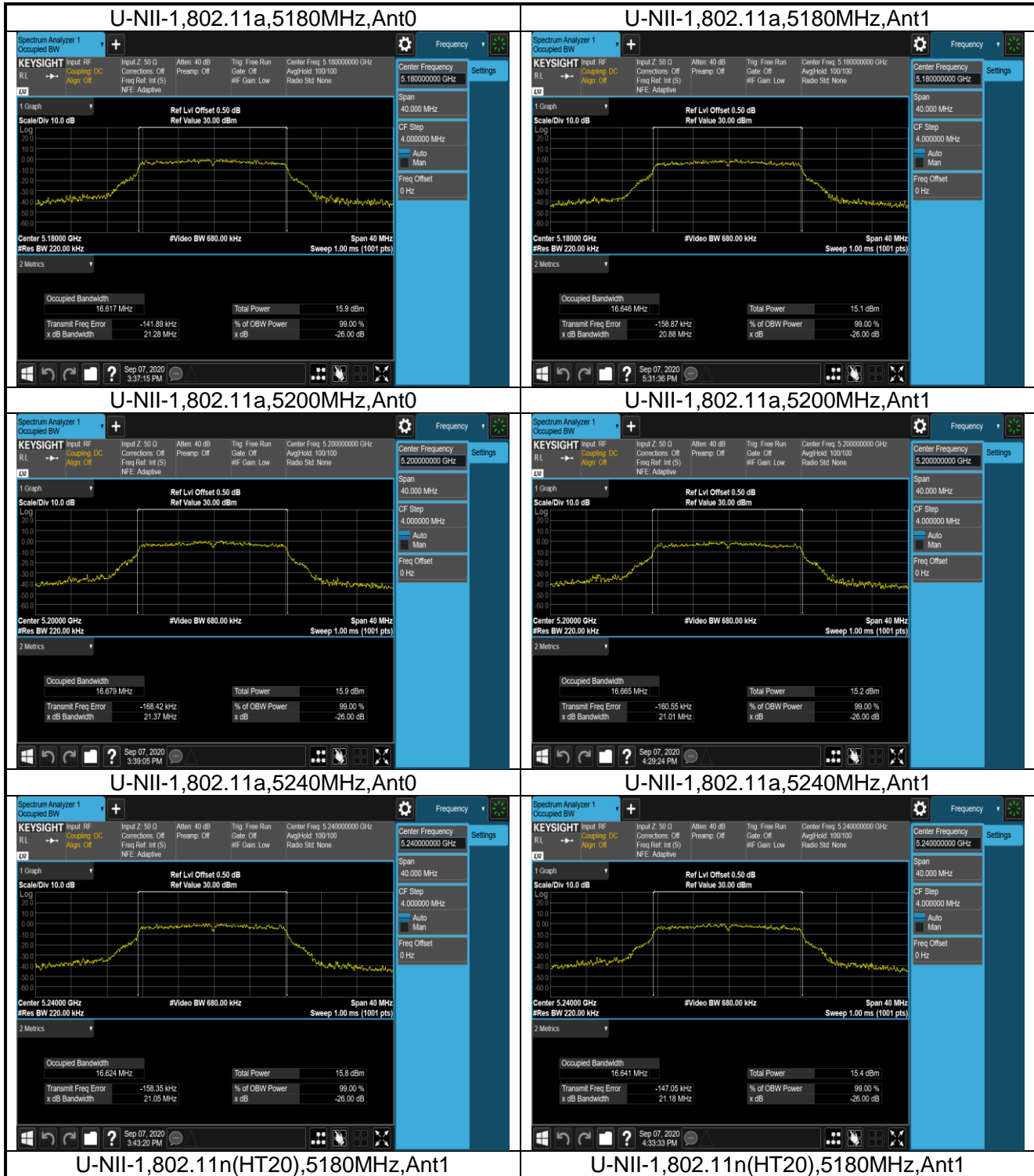
## Appendix A: Test results

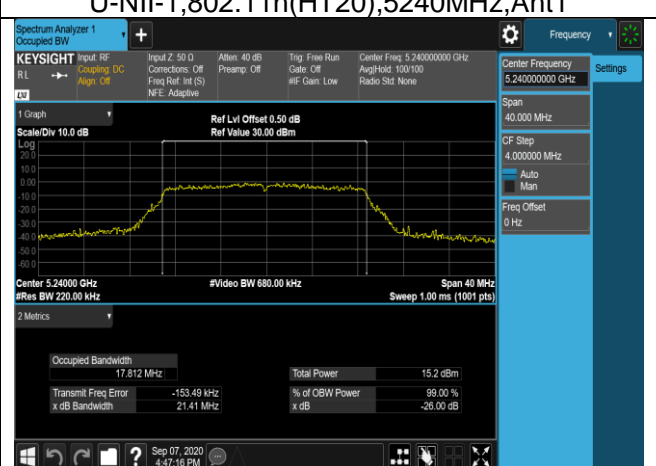
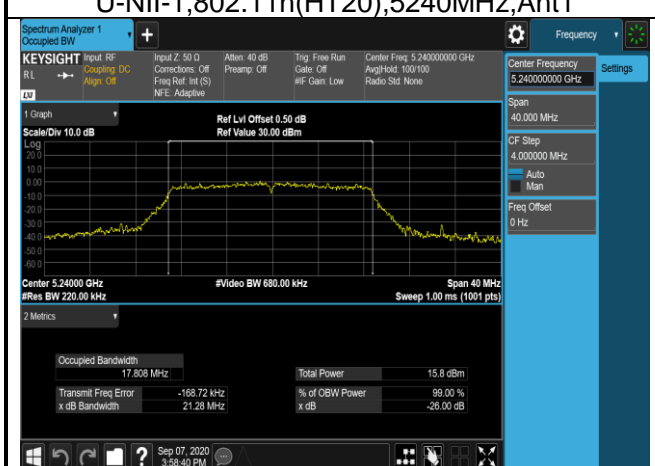
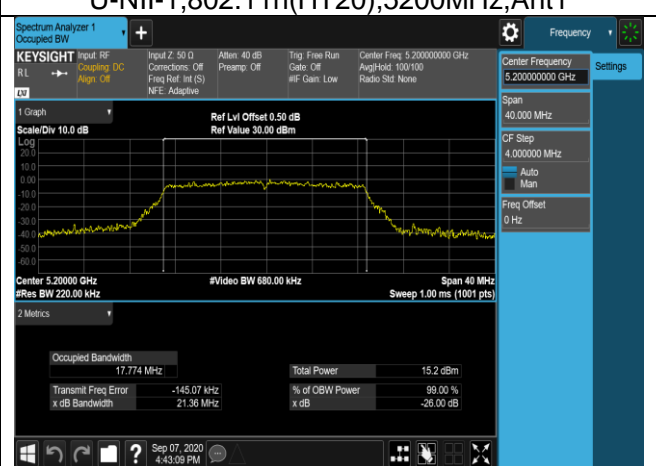
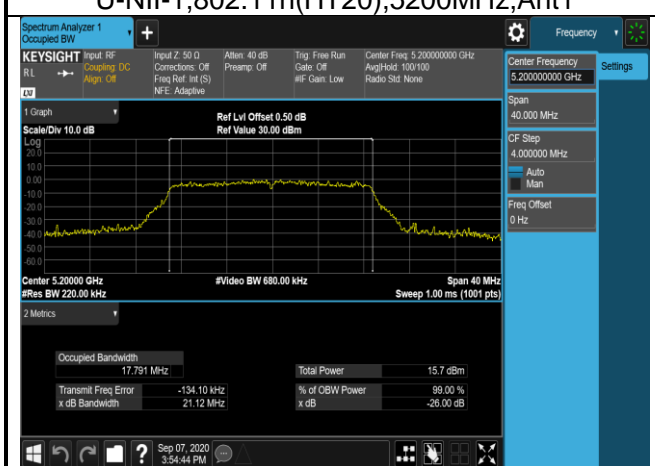
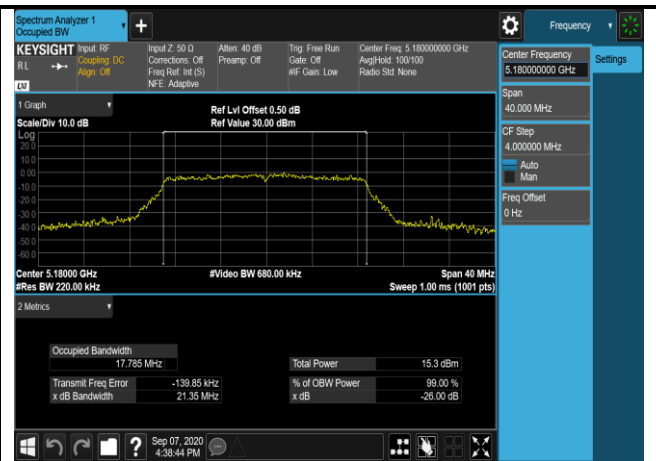
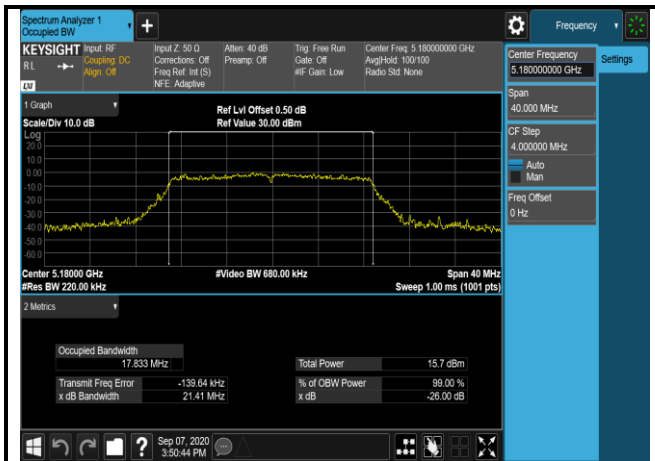
### 1. Occupied N dB Bandwidth

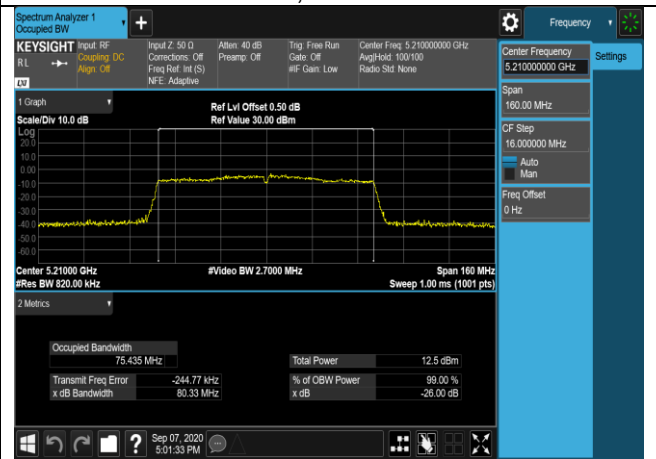
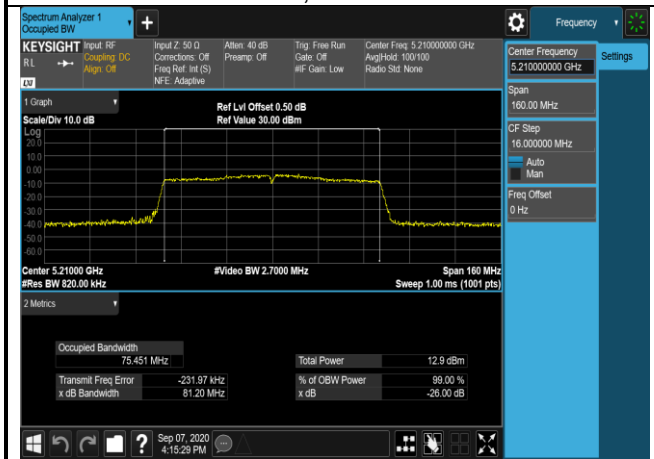
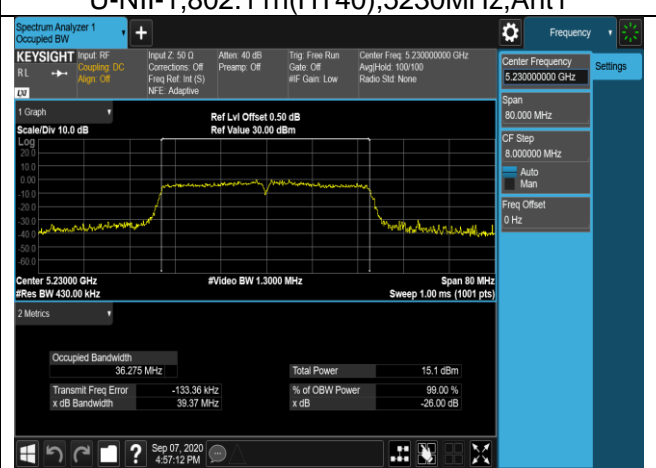
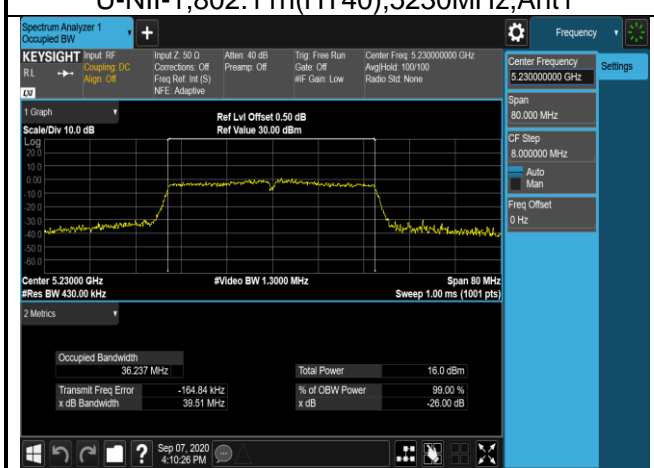
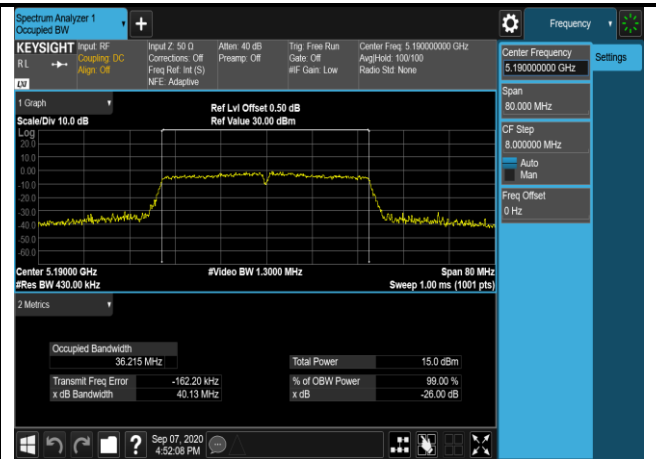
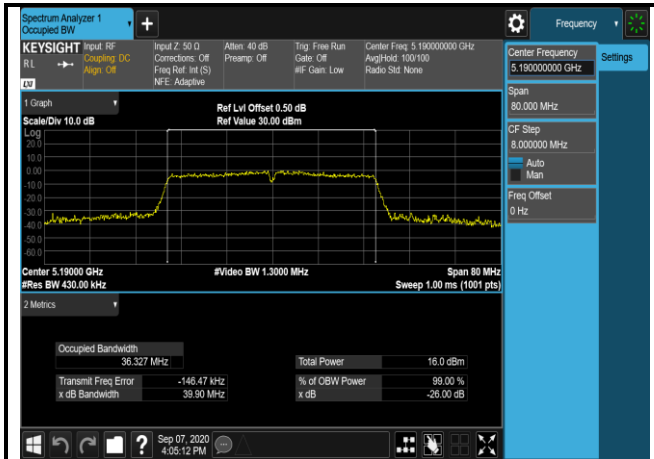
#### 1.1 Test Data

U-NII-1 Occupied N dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11a	5180	Ant0	21.28	Pass
802.11a	5180	Ant1	20.89	Pass
802.11a	5200	Ant0	21.37	Pass
802.11a	5200	Ant1	21.02	Pass
802.11a	5240	Ant0	21.05	Pass
802.11a	5240	Ant1	21.18	Pass
802.11n (HT20)	5180	Ant1	21.41	Pass
802.11n (HT20)	5180	Ant1	21.35	Pass
802.11n (HT20)	5200	Ant1	21.12	Pass
802.11n (HT20)	5200	Ant1	21.36	Pass
802.11n (HT20)	5240	Ant1	21.28	Pass
802.11n (HT20)	5240	Ant1	21.41	Pass
802.11n (HT40)	5190	Ant1	39.90	Pass
802.11n (HT40)	5190	Ant1	40.13	Pass
802.11n (HT40)	5230	Ant1	39.51	Pass
802.11n (HT40)	5230	Ant1	39.37	Pass
802.11ac (VHT80)	5210	Ant1	81.20	Pass
802.11ac (VHT80)	5210	Ant1	80.33	Pass

1.2 Test Plots





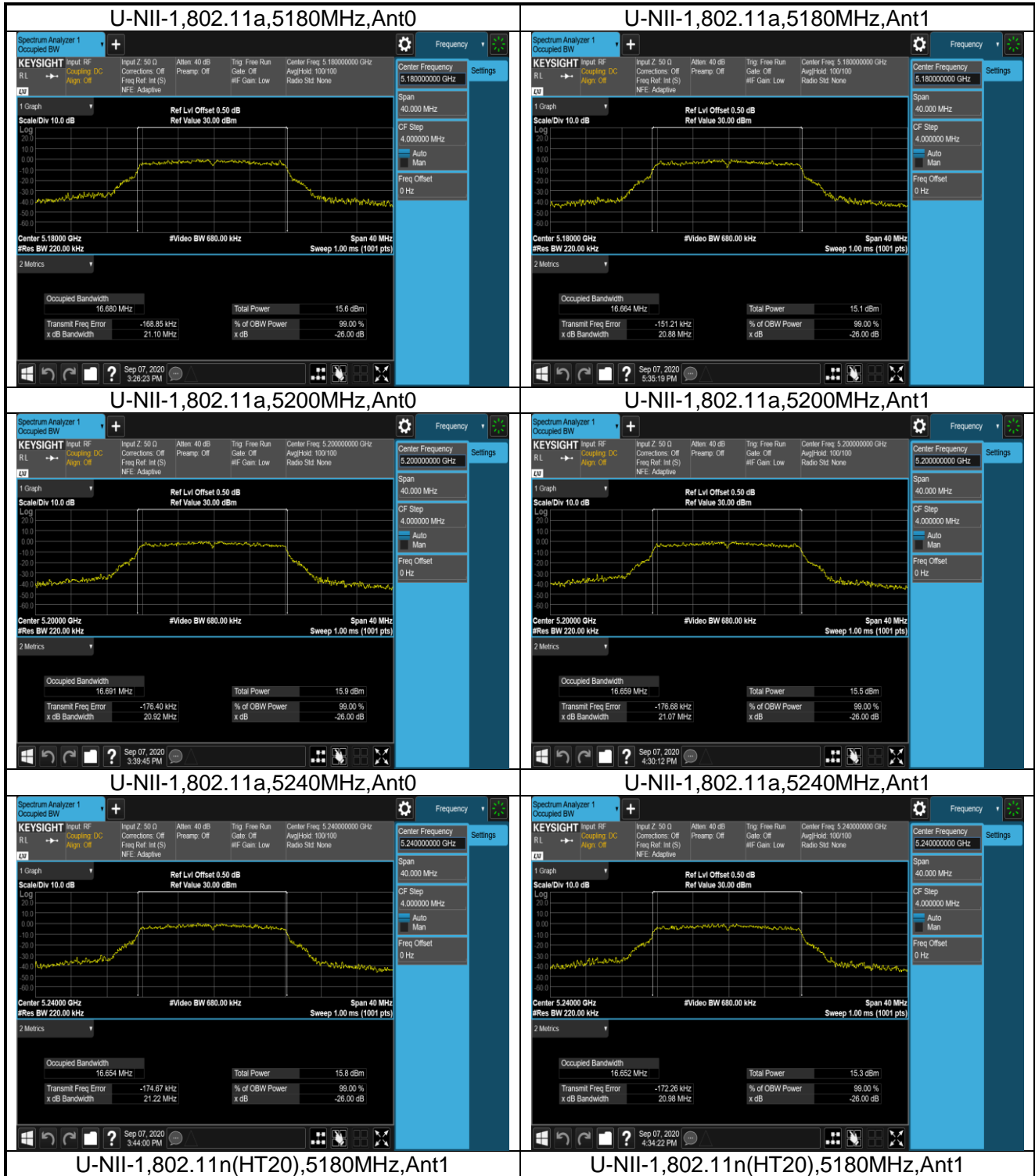


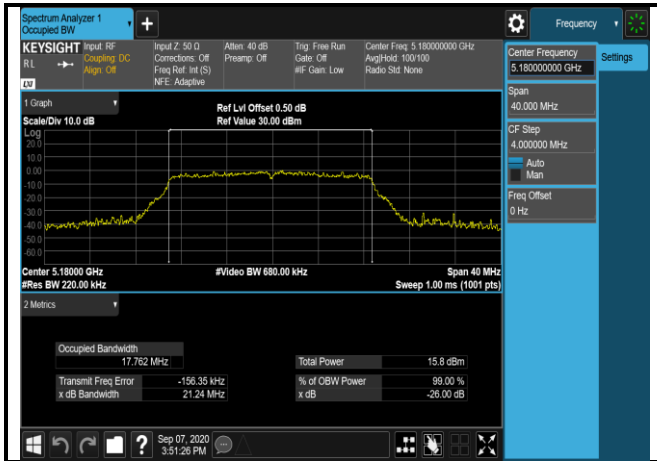
2. 99% Occupied Bandwidth

2.1 Test Data

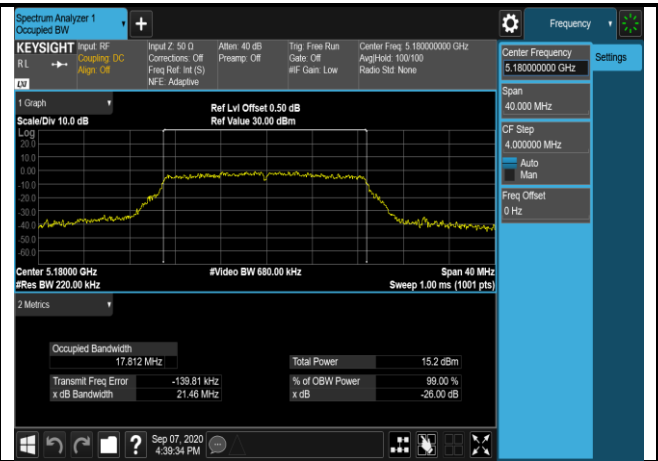
U-NII-1 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11a	5180	Ant0	16.680	Pass
802.11a	5180	Ant1	16.664	Pass
802.11a	5200	Ant0	16.691	Pass
802.11a	5200	Ant1	16.659	Pass
802.11a	5240	Ant0	16.654	Pass
802.11a	5240	Ant1	16.652	Pass
802.11n (HT20)	5180	Ant1	17.762	Pass
802.11n (HT20)	5180	Ant1	17.812	Pass
802.11n (HT20)	5200	Ant1	17.794	Pass
802.11n (HT20)	5200	Ant1	17.764	Pass
802.11n (HT20)	5240	Ant1	17.779	Pass
802.11n (HT20)	5240	Ant1	17.808	Pass
802.11n (HT40)	5190	Ant1	36.358	Pass
802.11n (HT40)	5190	Ant1	36.273	Pass
802.11n (HT40)	5230	Ant1	36.217	Pass
802.11n (HT40)	5230	Ant1	36.248	Pass
802.11ac (VHT80)	5210	Ant1	75.465	Pass
802.11ac (VHT80)	5210	Ant1	75.466	Pass

2.2 Test Plots

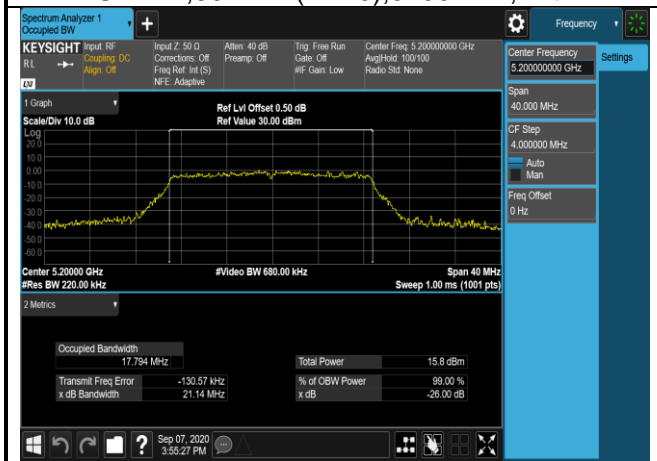




U-NII-1,802.11n(HT20),5200MHz,Ant1



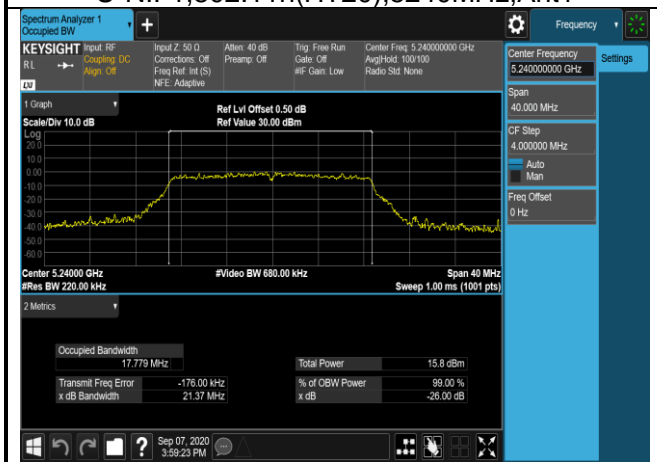
U-NII-1,802.11n(HT20),5200MHz,Ant1



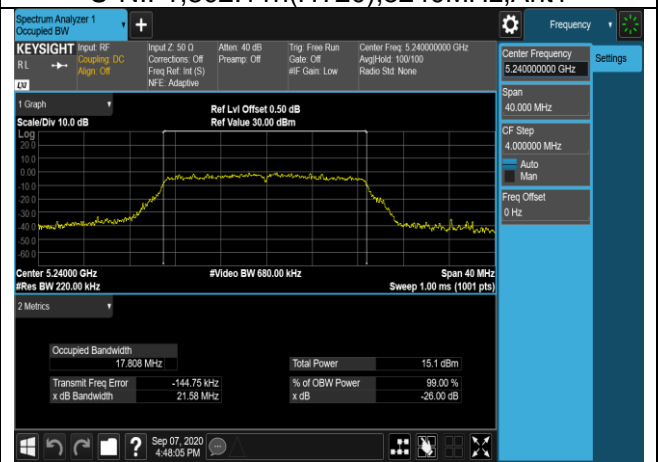
U-NII-1,802.11n(HT20),5240MHz,Ant1



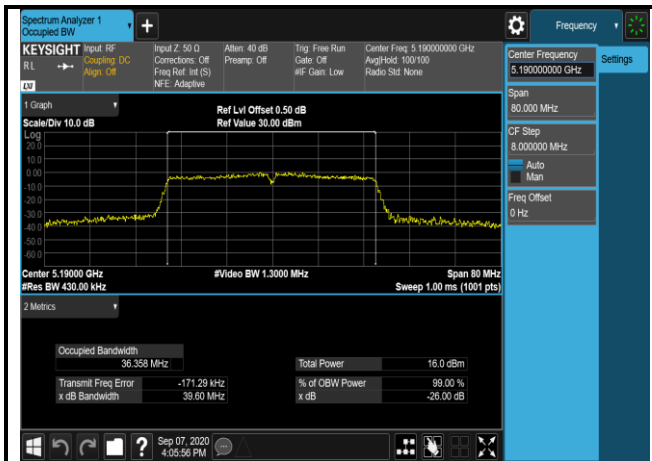
U-NII-1,802.11n(HT20),5240MHz,Ant1



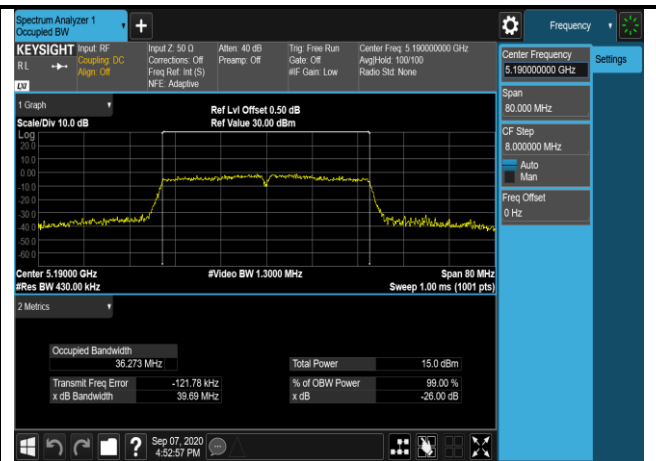
U-NII-1,802.11n(HT40),5190MHz,Ant1



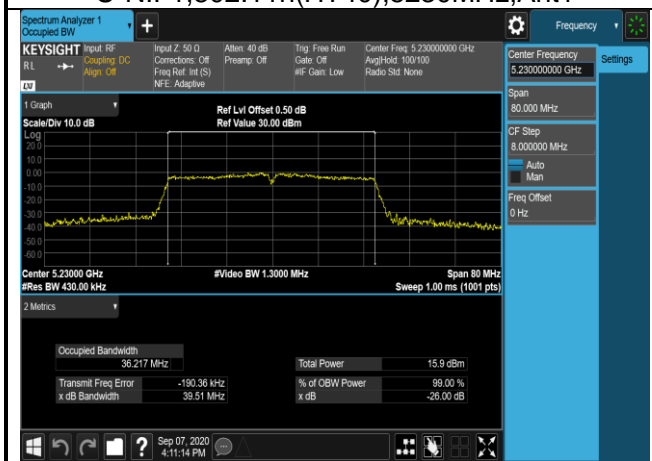
U-NII-1,802.11n(HT40),5190MHz,Ant1



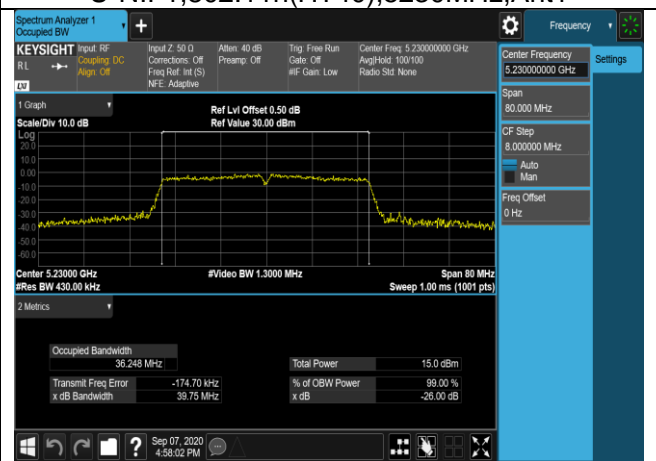
U-NII-1,802.11n(HT40),5230MHz,Ant1



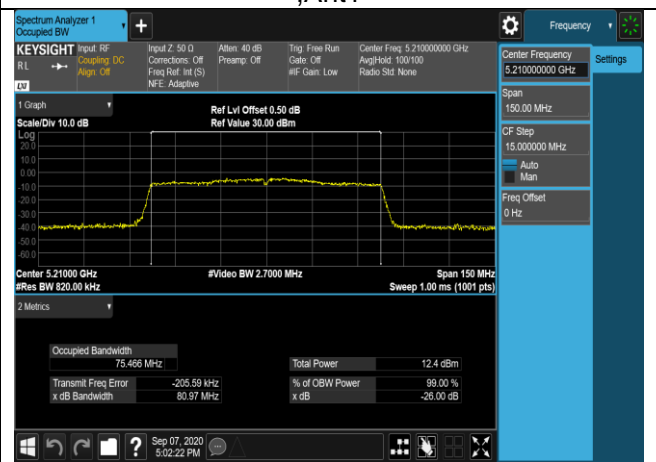
U-NII-1,802.11n(HT40),5230MHz,Ant1



U-NII-1,802.11ac(VHT80),5210MHz,Ant1



U-NII-1,802.11ac(VHT80),5210MHz,Ant1



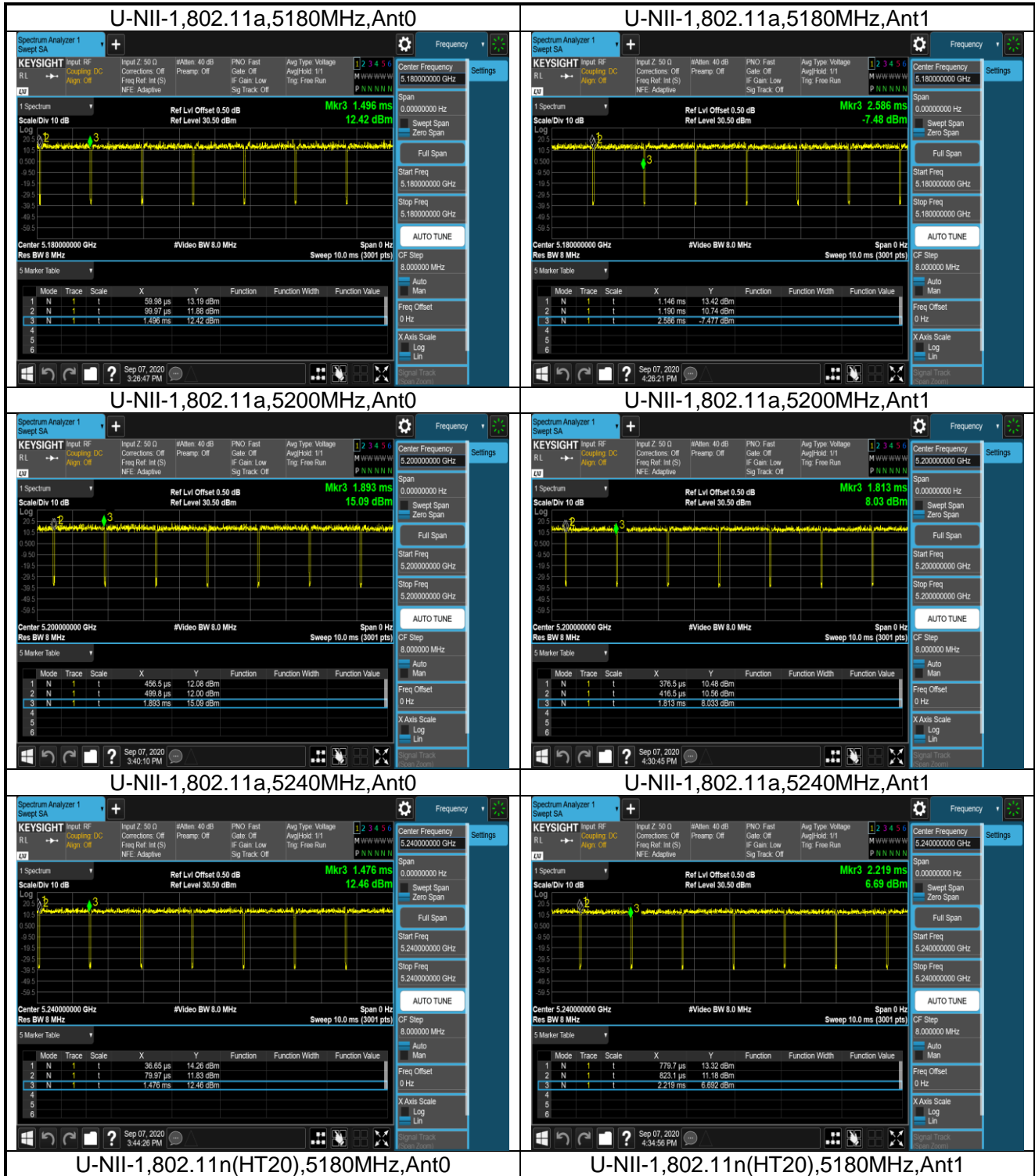


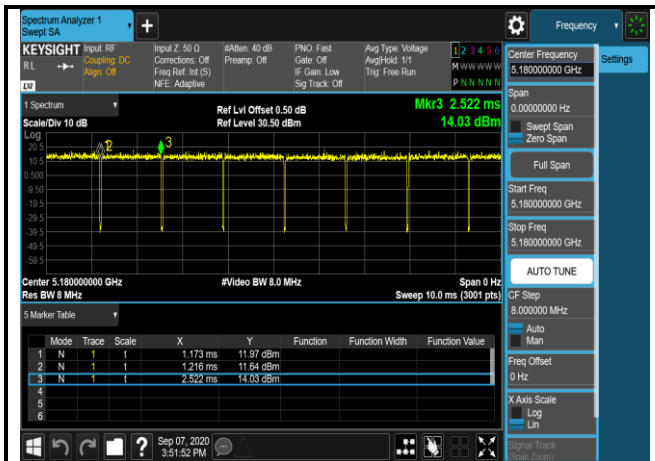
### 3. Duty Cycle

#### 3.1 Test Data

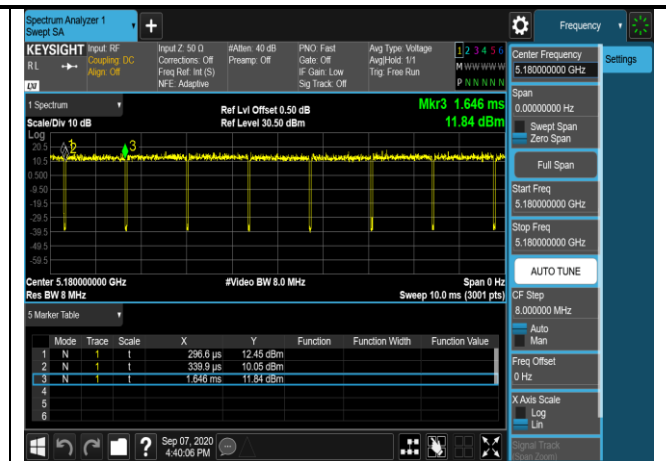
U-NII-1 Duty Cycle				
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11a	5180	Ant0	97.22	0.12
802.11a	5180	Ant1	96.99	0.13
802.11a	5200	Ant0	96.98	0.13
802.11a	5200	Ant1	97.22	0.12
802.11a	5240	Ant0	96.99	0.13
802.11a	5240	Ant1	96.99	0.13
802.11n (HT20)	5180	Ant0	96.79	0.14
802.11n (HT20)	5180	Ant1	96.79	0.14
802.11n (HT20)	5200	Ant0	97.04	0.13
802.11n (HT20)	5200	Ant1	97.04	0.13
802.11n (HT20)	5240	Ant0	97.04	0.13
802.11n (HT20)	5240	Ant1	96.79	0.14
802.11n (HT40)	5190	Ant0	93.72	0.28
802.11n (HT40)	5190	Ant1	94.17	0.26
802.11n (HT40)	5230	Ant0	94.17	0.26
802.11n (HT40)	5230	Ant1	94.17	0.26
802.11ac (VHT80)	5210	Ant0	88.58	0.53
802.11ac (VHT80)	5210	Ant1	88.58	0.53

3.2 Test Plots

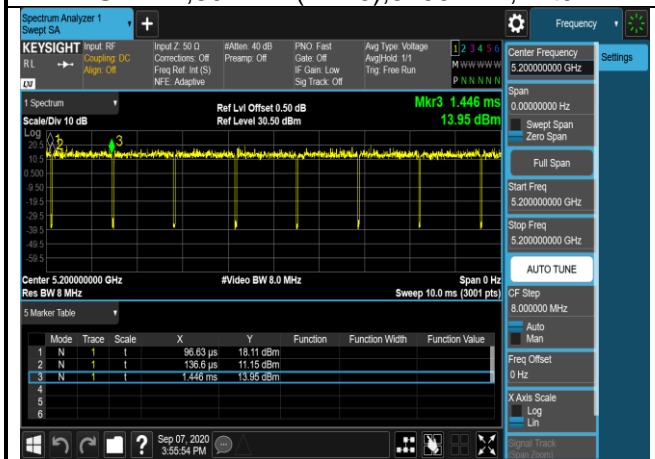




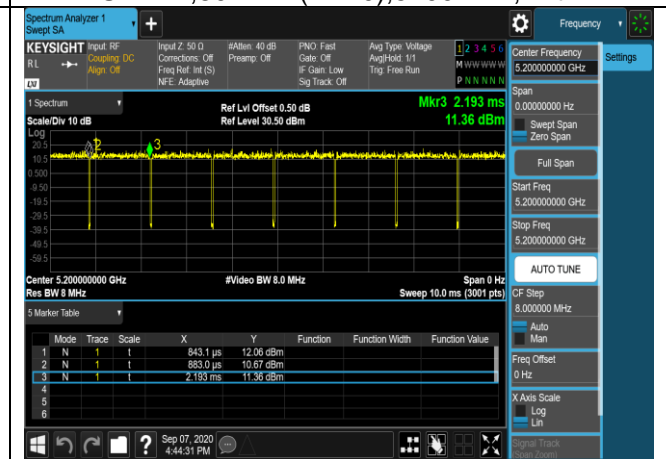
U-NII-1,802.11n(HT20),5200MHz,Ant0



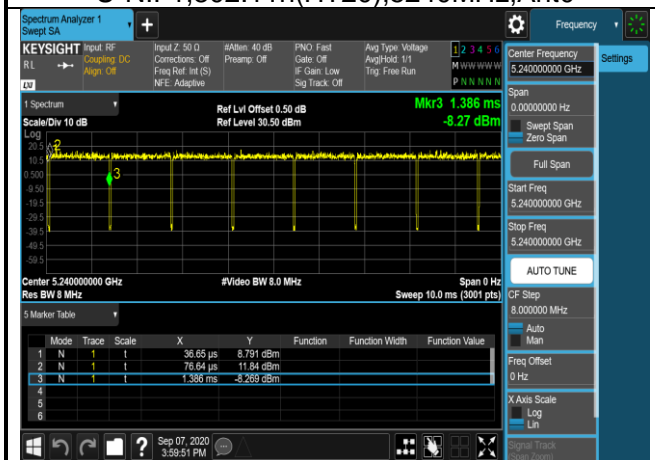
U-NII-1,802.11n(HT20),5200MHz,Ant1



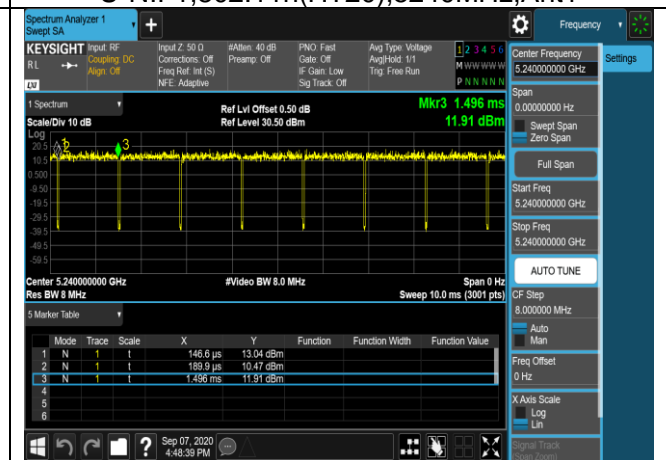
U-NII-1,802.11n(HT20),5240MHz,Ant0



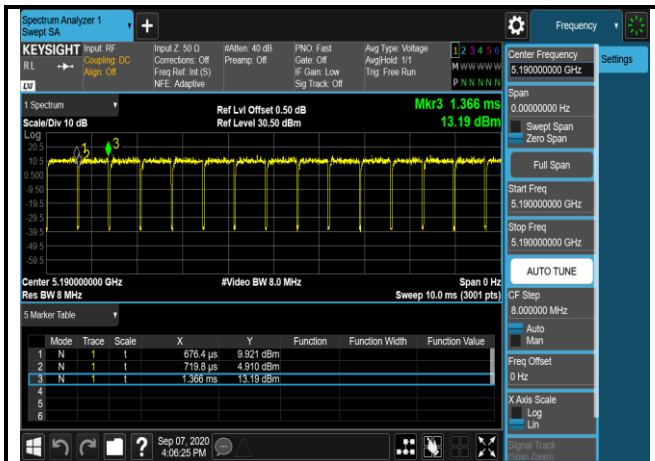
U-NII-1,802.11n(HT20),5240MHz,Ant1



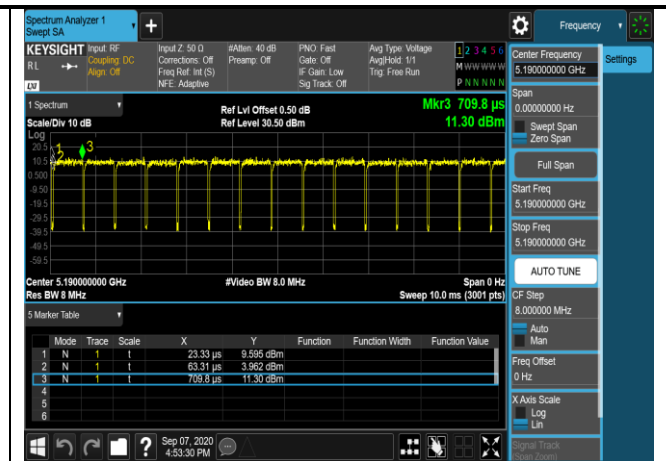
U-NII-1,802.11n(HT40),5190MHz,Ant1



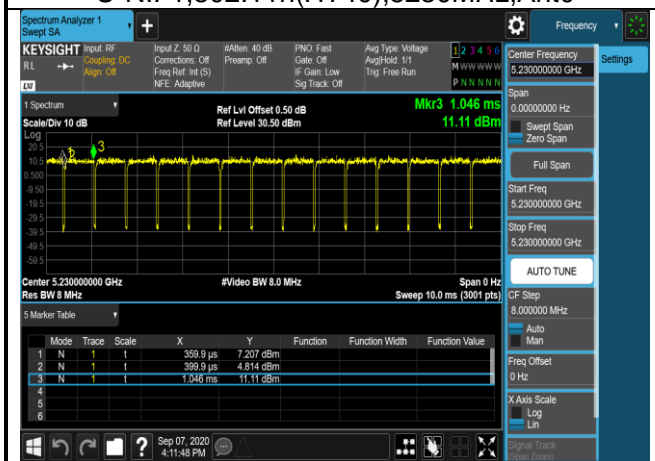
U-NII-1,802.11n(HT40),5190MHz,Ant1



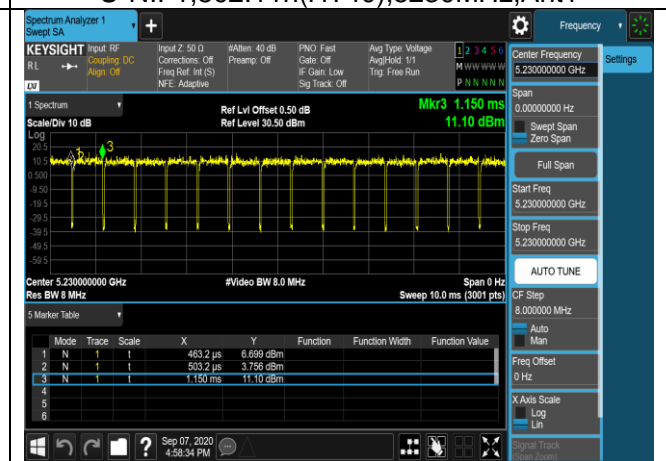
U-NII-1,802.11n(HT40),5230MHz,Ant0



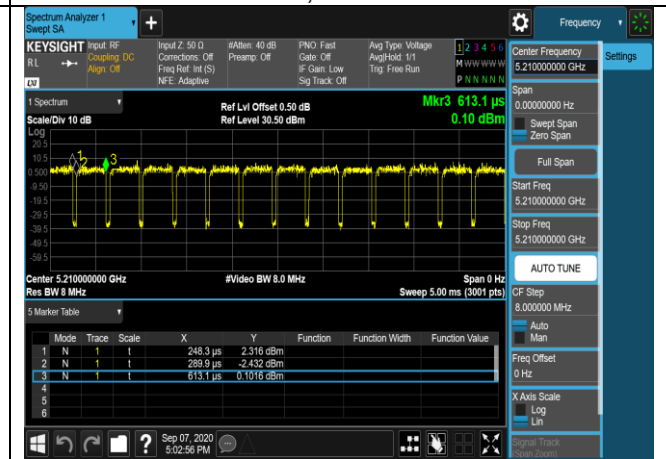
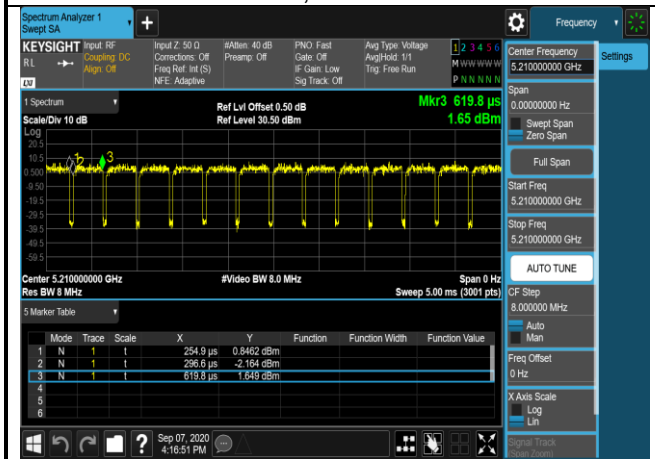
U-NII-1,802.11n(HT40),5230MHz,Ant1



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



U-NII-1,802.11ac(VHT80),5210MHz ,Ant1

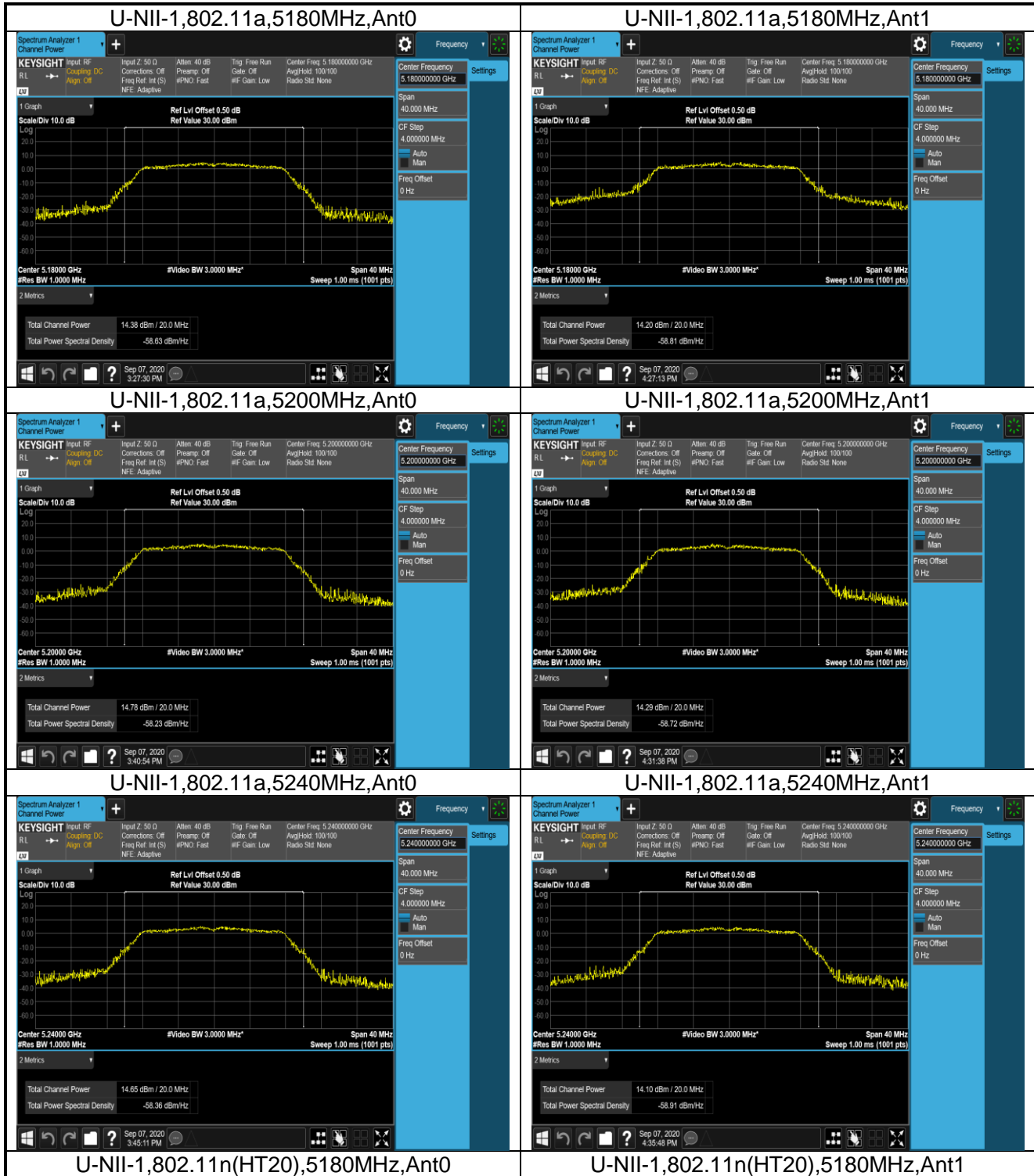


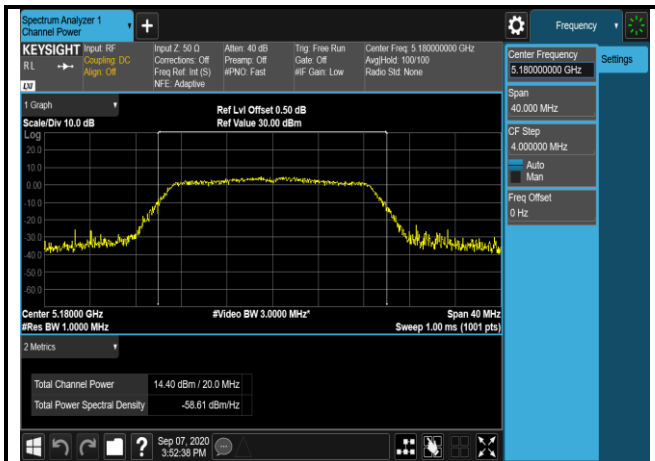
4. AVGSA Output Power

4.1 Test Data

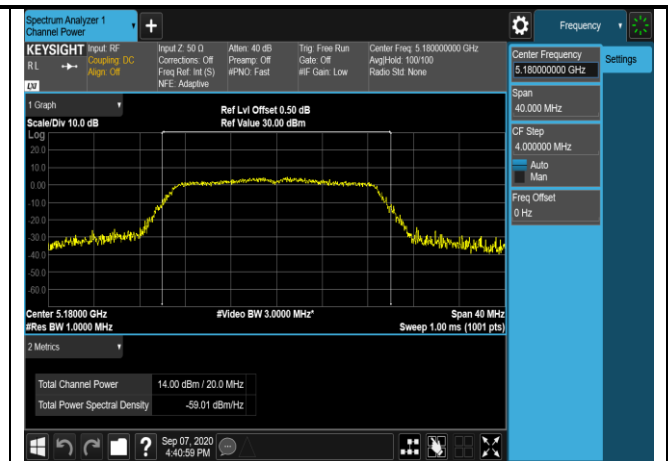
U-NII-1 AVGSA Output Power								
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Total Power (dBm)	FCC Power Limit (dBm)	EIRP (dBm)	Result
802.11a	5180	Ant0	0.12	14.50	14.50	24	17.90	Pass
802.11a	5180	Ant1	0.13	14.33	14.33	24	17.73	Pass
802.11a	5200	Ant0	0.13	14.91	14.91	24	18.31	Pass
802.11a	5200	Ant1	0.12	14.41	14.41	24	17.81	Pass
802.11a	5240	Ant0	0.13	14.78	14.78	24	18.18	Pass
802.11a	5240	Ant1	0.13	14.23	14.23	24	17.63	Pass
802.11n (HT20)	5180	Ant0	0.14	14.54	17.35	24	20.75	Pass
802.11n (HT20)	5180	Ant1	0.14	14.14				
802.11n (HT20)	5200	Ant0	0.13	14.54	17.35	24	20.75	Pass
802.11n (HT20)	5200	Ant1	0.13	14.03				
802.11n (HT20)	5240	Ant0	0.13	14.56	17.31	24	20.71	Pass
802.11n (HT20)	5240	Ant1	0.14	13.94				
802.11n (HT40)	5190	Ant0	0.28	14.62	17.19	24	20.59	Pass
802.11n (HT40)	5190	Ant1	0.26	13.68				
802.11n (HT40)	5230	Ant0	0.26	14.64	17.25	24	21.65	Pass
802.11n (HT40)	5230	Ant1	0.26	13.80				
802.11ac (VHT80)	5210	Ant0	0.53	10.94	13.73	24	17.13	Pass
802.11ac (VHT80)	5210	Ant1	0.53	10.49				

4.2 Test Plots

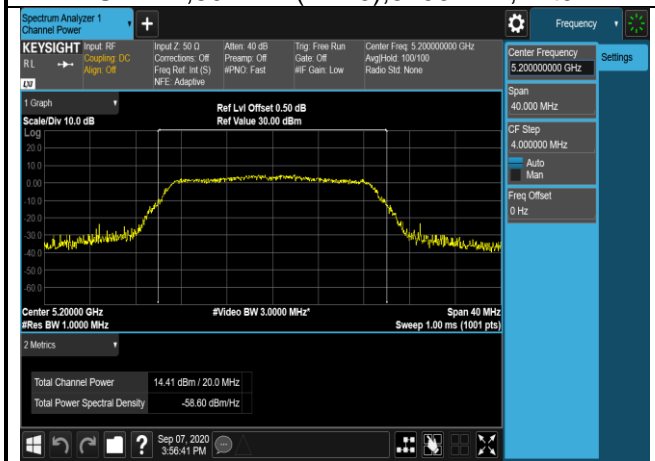




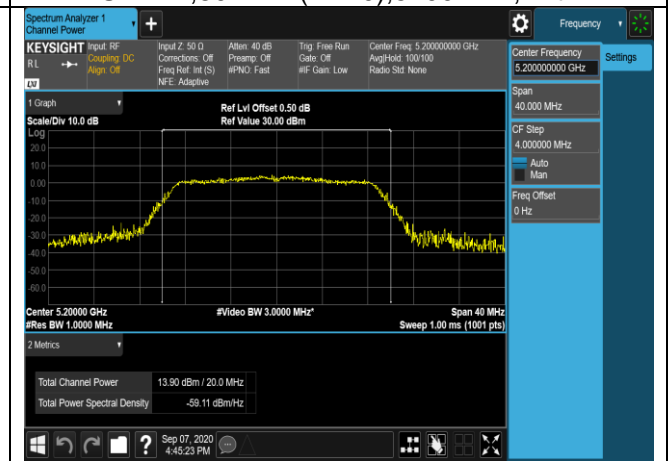
U-NII-1,802.11n(HT20),5200MHz,Ant0



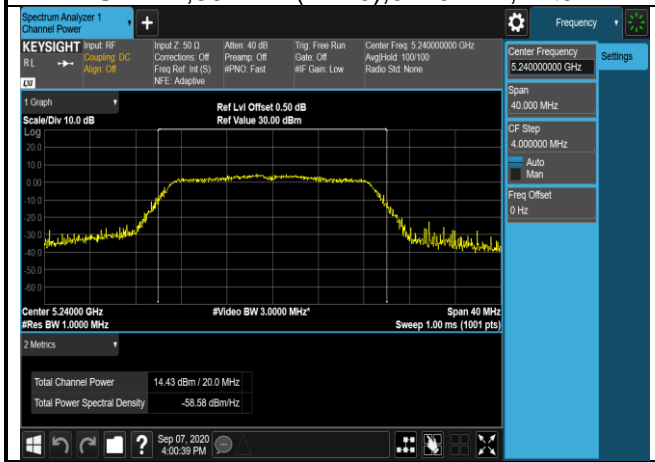
U-NII-1,802.11n(HT20),5200MHz,Ant1



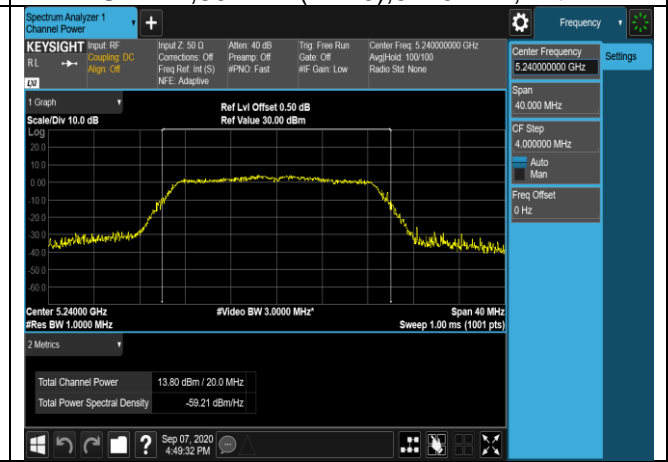
U-NII-1,802.11n(HT20),5240MHz,Ant0



U-NII-1,802.11n(HT20),5240MHz,Ant1



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



U-NII-1,802.11n(HT40),5190MHz,Ant1