

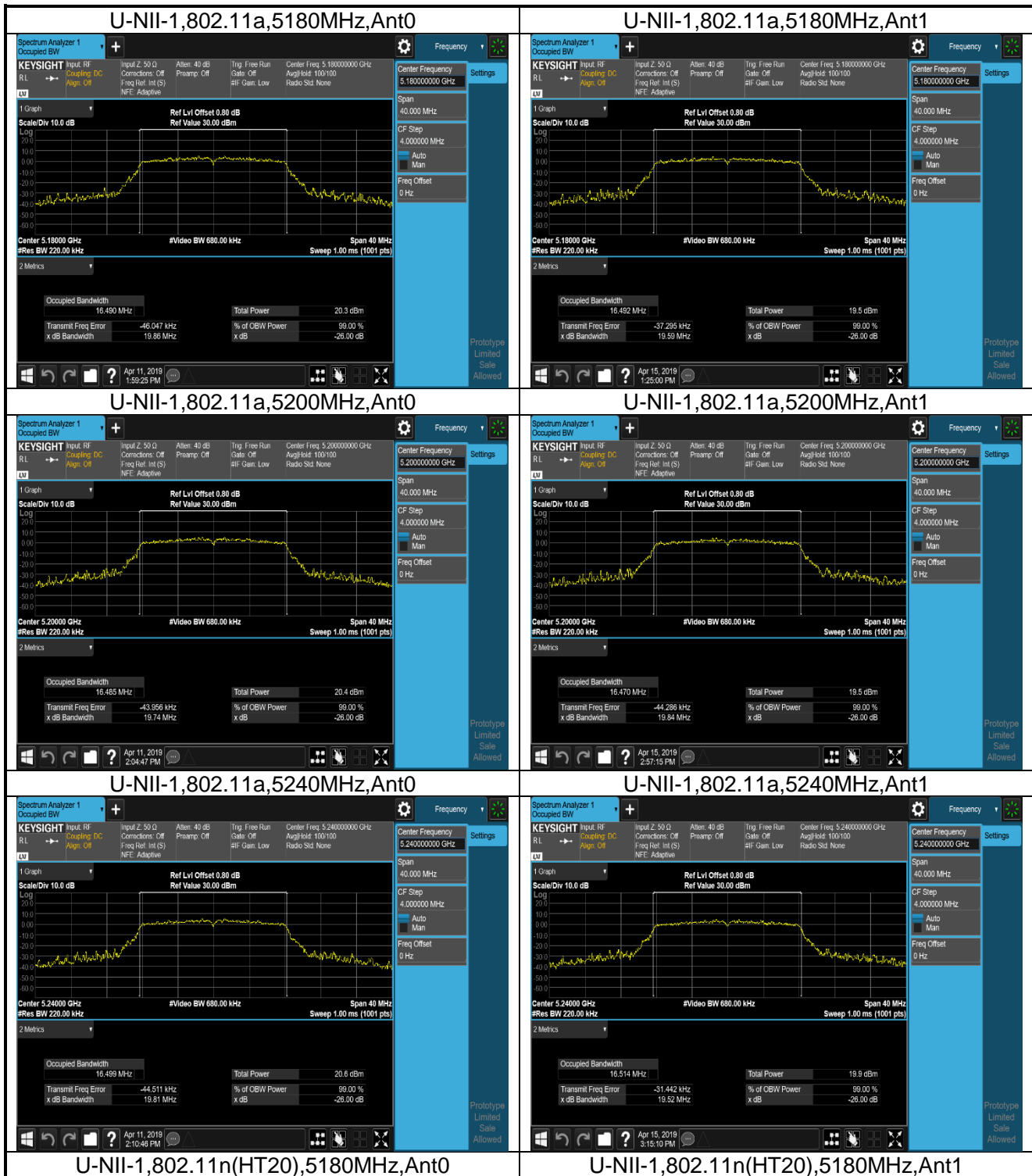
Appendix A1: Test results

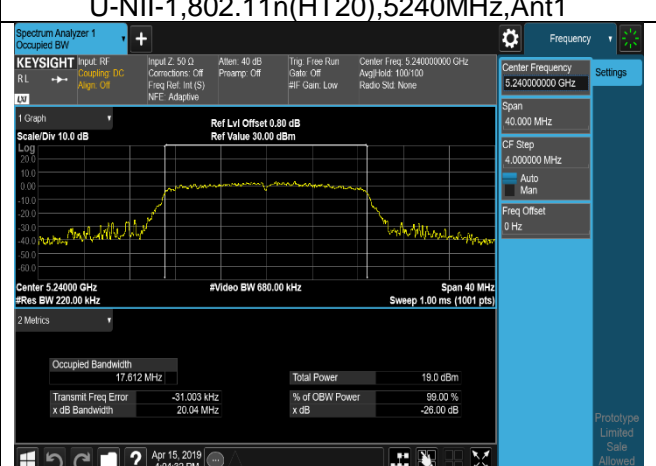
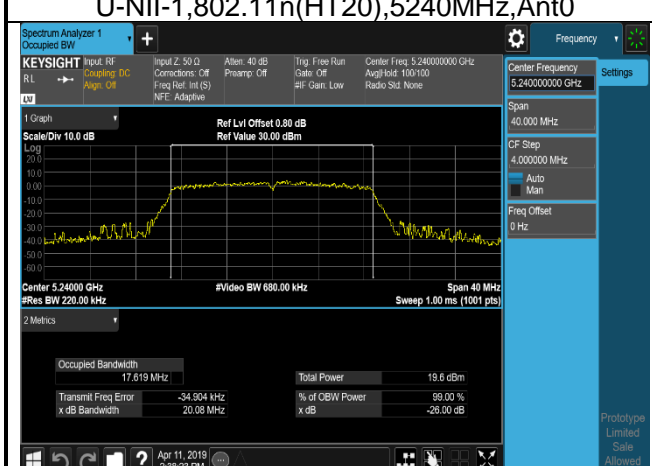
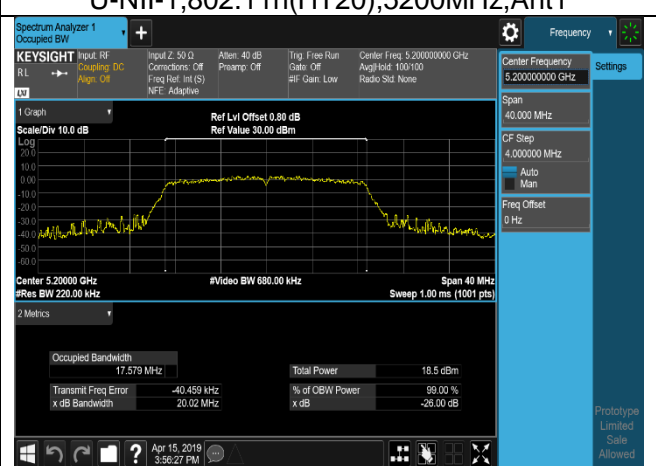
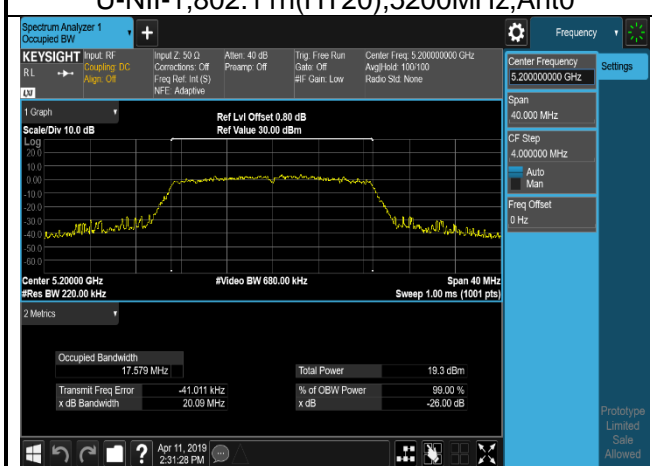
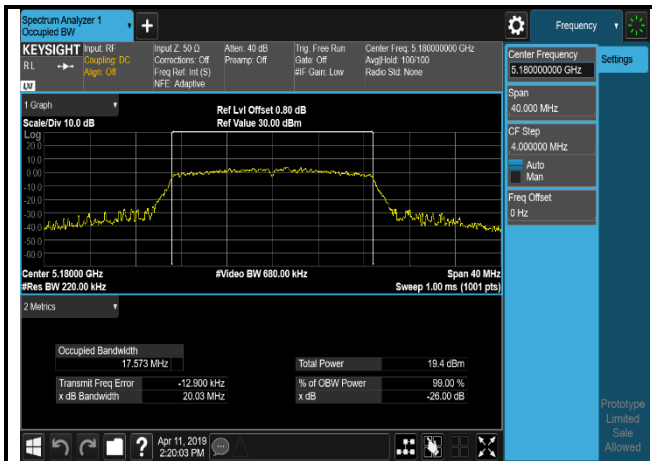
1. Occupied N dB Bandwidth

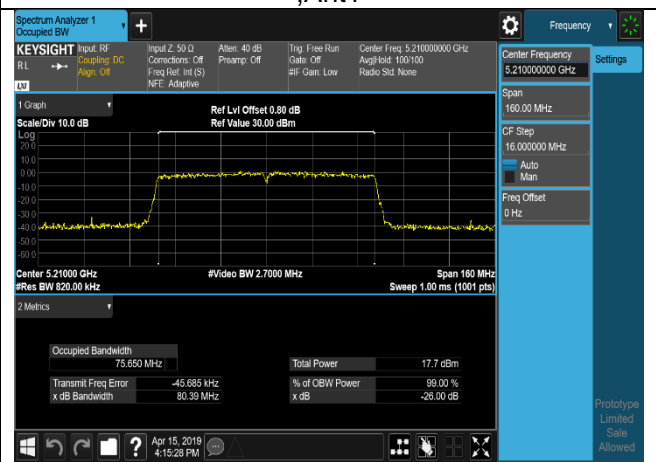
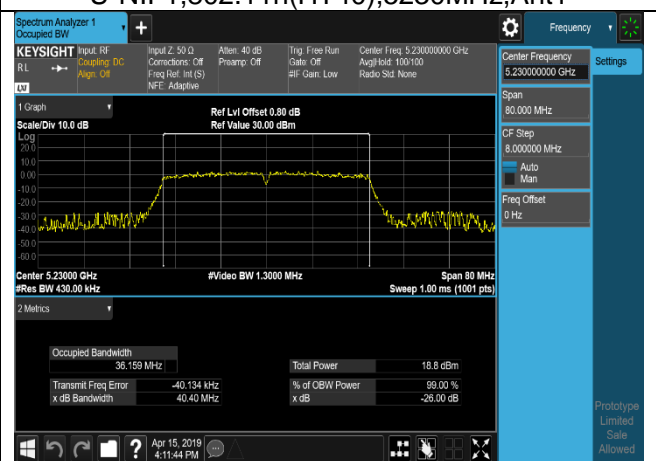
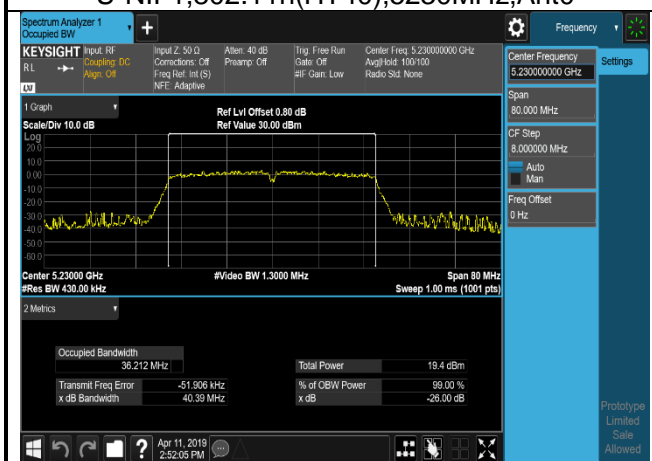
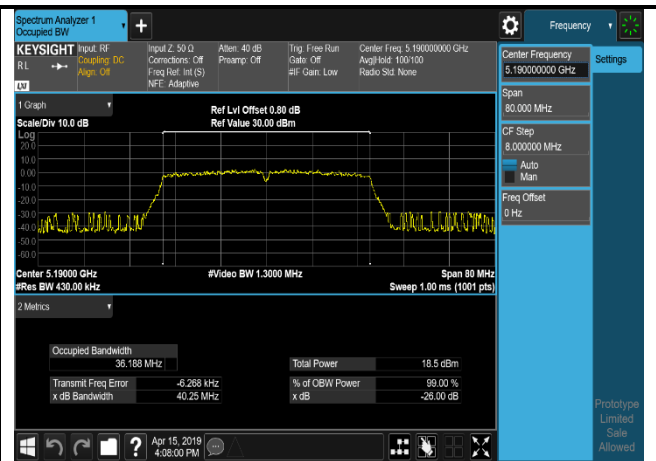
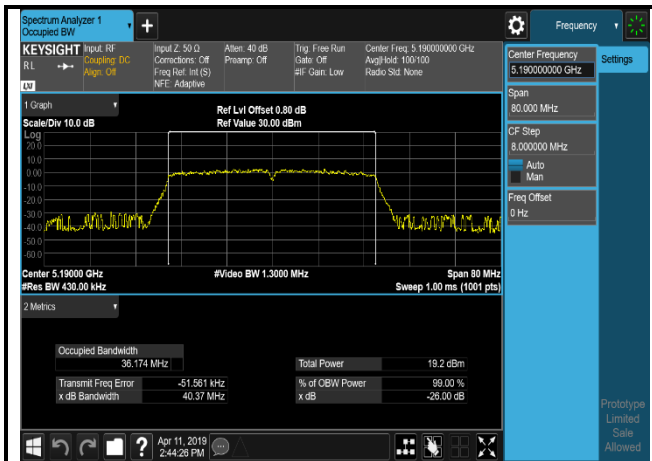
1.1 Test Data

U-NII-1 Occupied N dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11a	5180	Ant0	19.86	Pass
802.11a	5180	Ant1	19.59	Pass
802.11a	5200	Ant0	19.74	Pass
802.11a	5200	Ant1	19.84	Pass
802.11a	5240	Ant0	19.81	Pass
802.11a	5240	Ant1	19.52	Pass
802.11n (HT20)	5180	Ant0	20.03	Pass
802.11n (HT20)	5180	Ant1	20.05	Pass
802.11n (HT20)	5200	Ant0	20.09	Pass
802.11n (HT20)	5200	Ant1	20.02	Pass
802.11n (HT20)	5240	Ant0	20.09	Pass
802.11n (HT20)	5240	Ant1	20.04	Pass
802.11n (HT40)	5190	Ant0	40.37	Pass
802.11n (HT40)	5190	Ant1	40.25	Pass
802.11n (HT40)	5230	Ant0	40.39	Pass
802.11n (HT40)	5230	Ant1	40.40	Pass
802.11ac (VHT80)	5210	Ant0	80.42	Pass
802.11ac (VHT80)	5210	Ant1	80.39	Pass

1.2 Test Plots





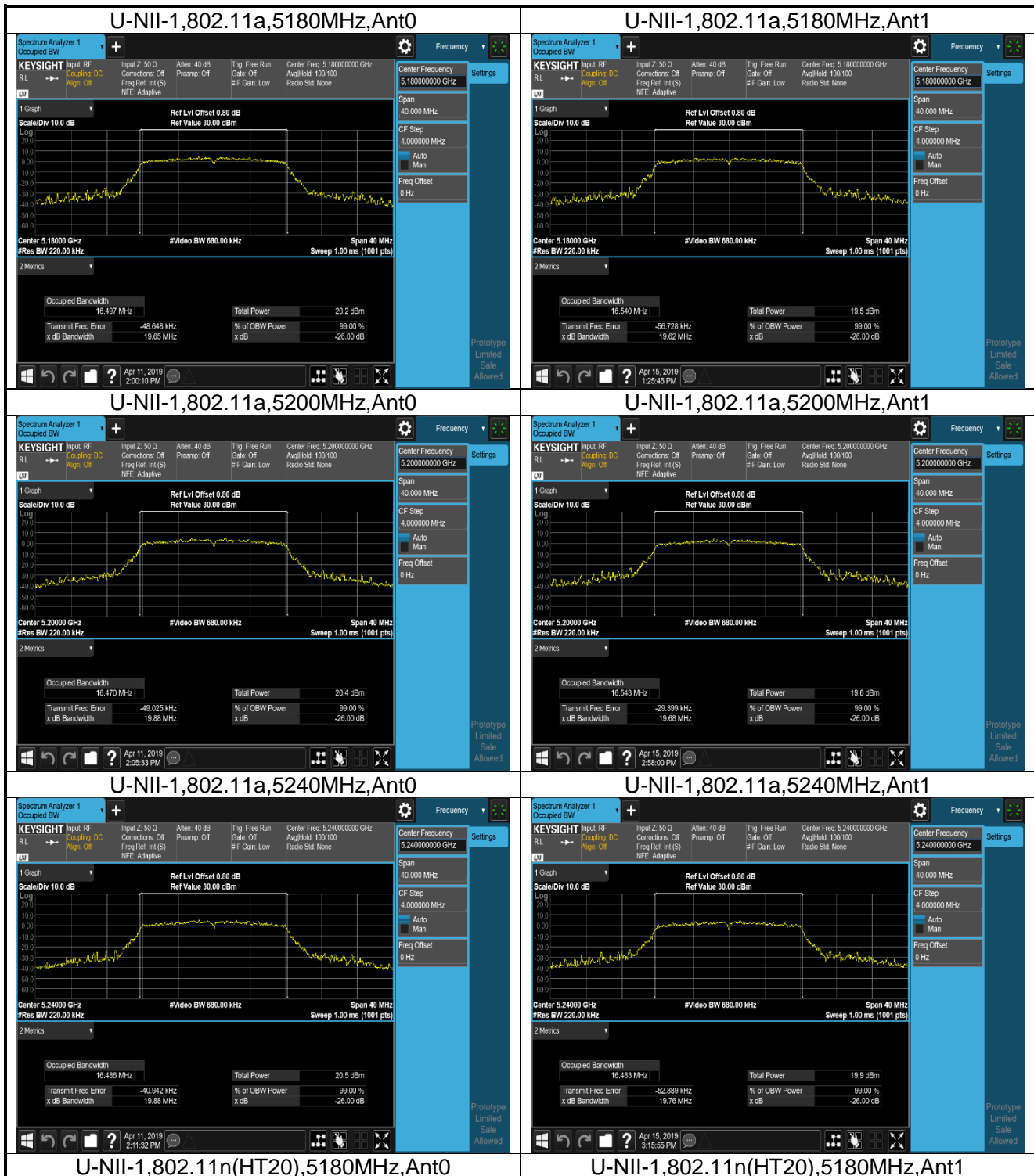


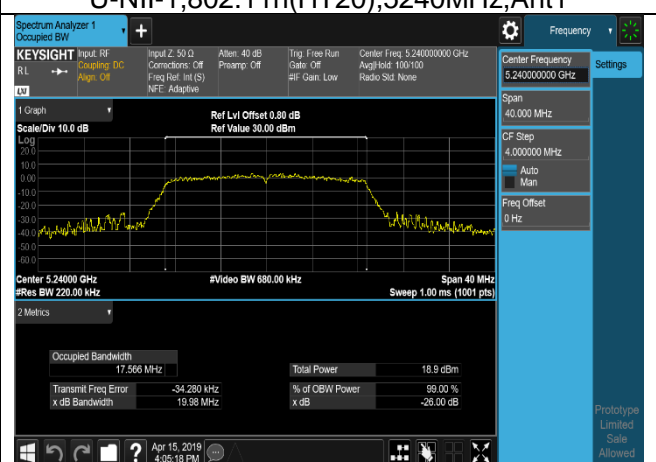
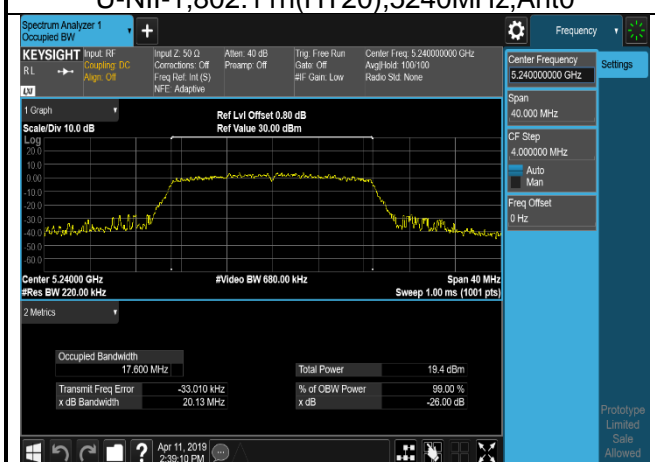
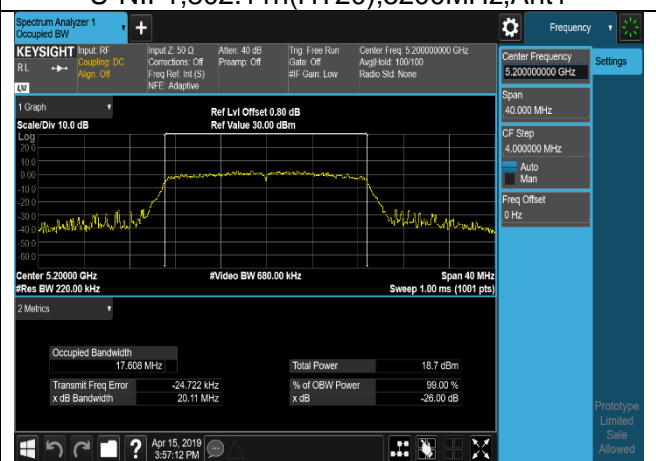
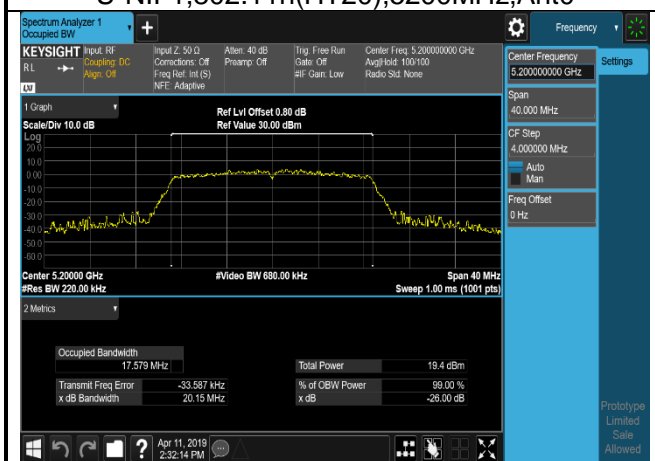
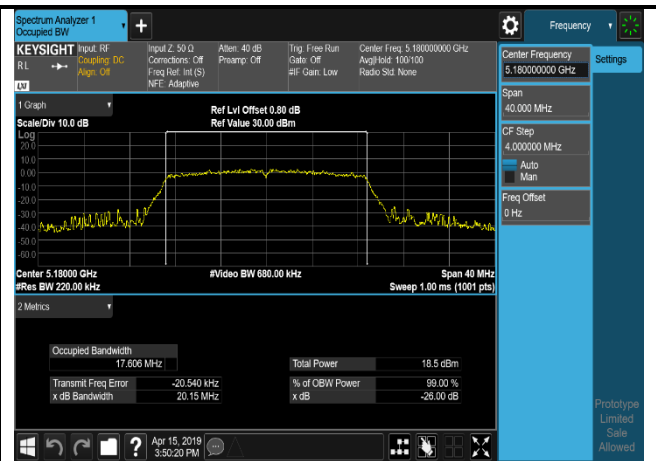
2. 99% Occupied Bandwidth

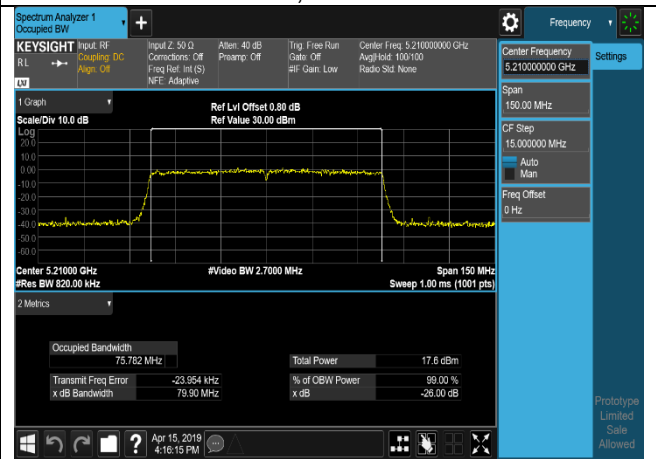
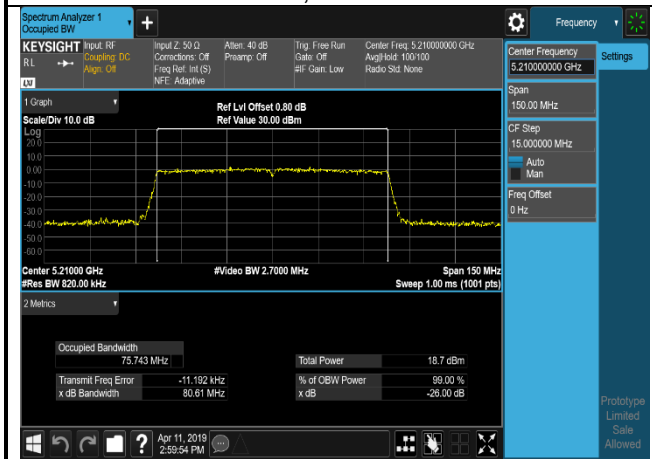
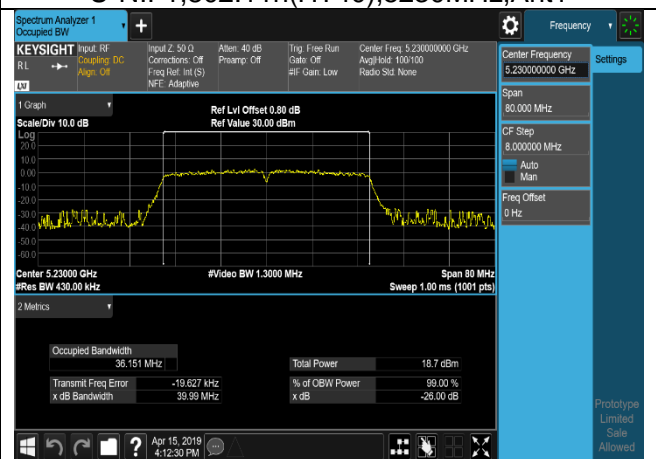
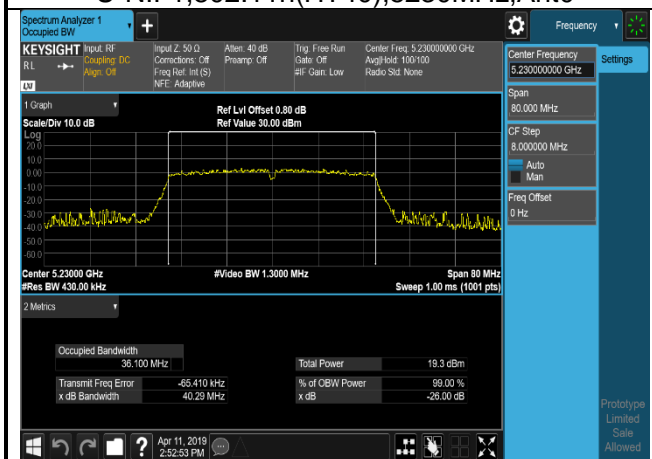
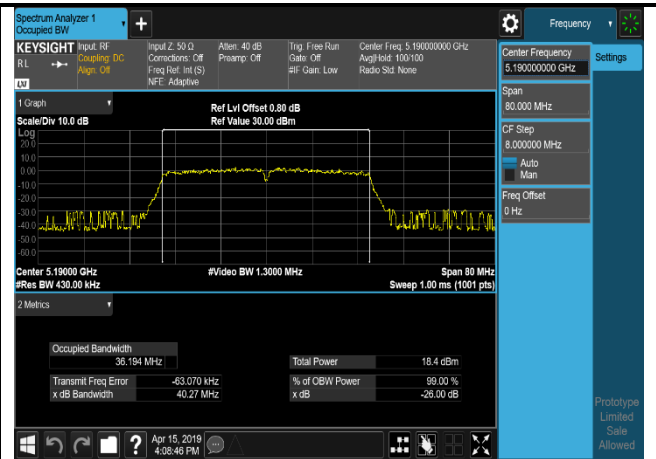
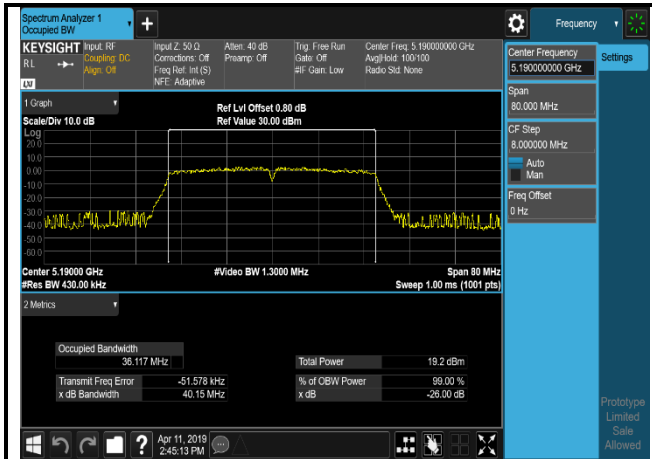
2.1 Test Data

U-NII-1 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11a	5180	Ant0	16.497	Pass
802.11a	5180	Ant1	16.540	Pass
802.11a	5200	Ant0	16.470	Pass
802.11a	5200	Ant1	16.543	Pass
802.11a	5240	Ant0	16.486	Pass
802.11a	5240	Ant1	16.483	Pass
802.11n (HT20)	5180	Ant0	17.614	Pass
802.11n (HT20)	5180	Ant1	17.606	Pass
802.11n (HT20)	5200	Ant0	17.579	Pass
802.11n (HT20)	5200	Ant1	17.608	Pass
802.11n (HT20)	5240	Ant0	17.600	Pass
802.11n (HT20)	5240	Ant1	17.566	Pass
802.11n (HT40)	5190	Ant0	36.117	Pass
802.11n (HT40)	5190	Ant1	36.194	Pass
802.11n (HT40)	5230	Ant0	36.100	Pass
802.11n (HT40)	5230	Ant1	36.151	Pass
802.11ac (VHT80)	5210	Ant0	75.743	Pass
802.11ac (VHT80)	5210	Ant1	75.782	Pass

2.2 Test Plots





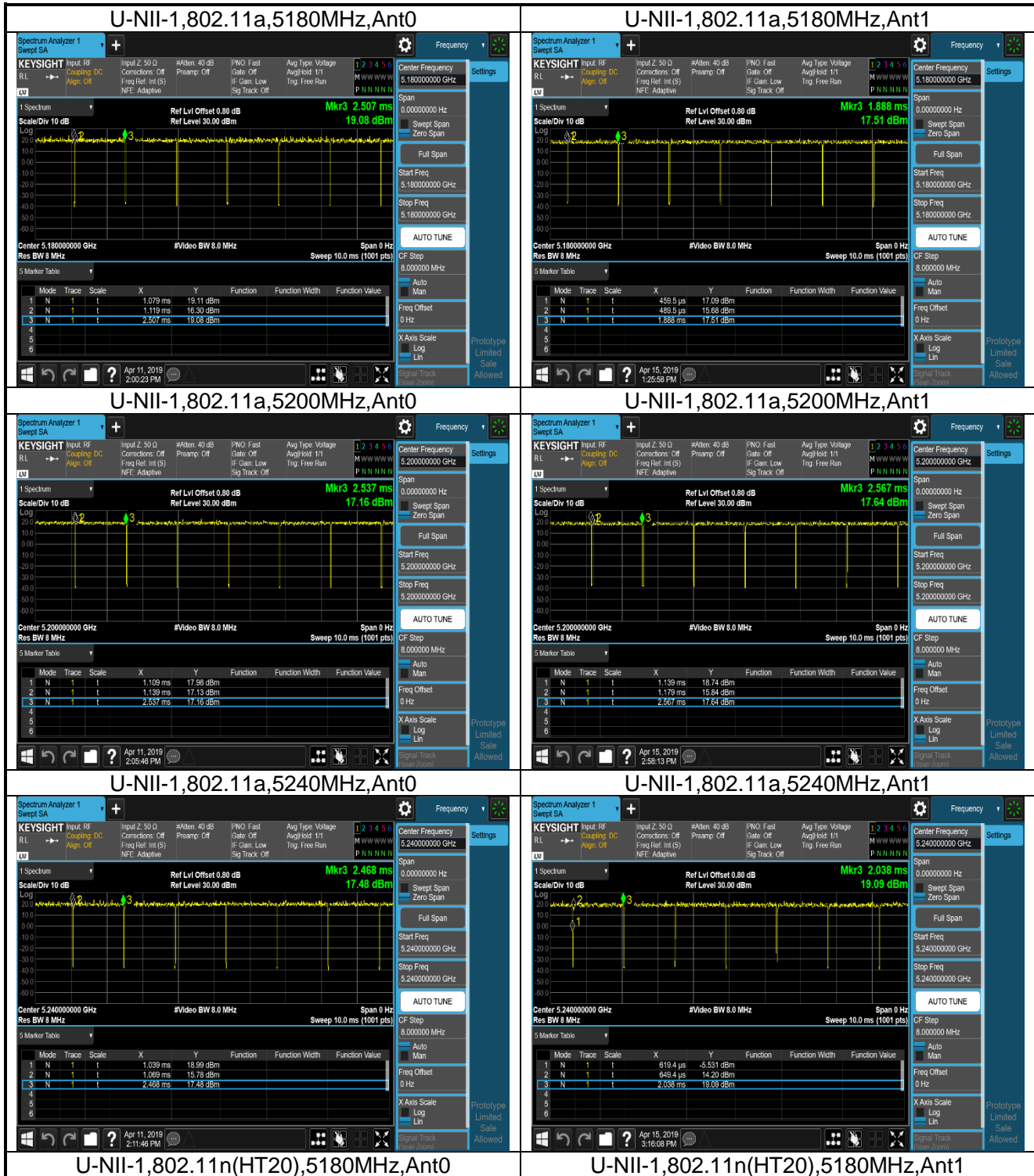


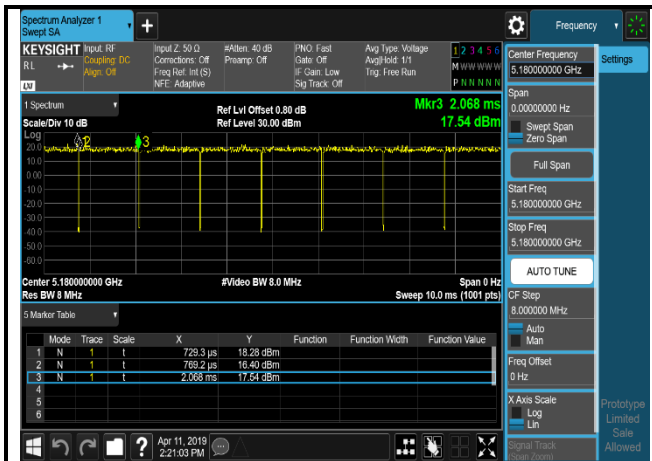
3. Duty Cycle

3.1 Test Data

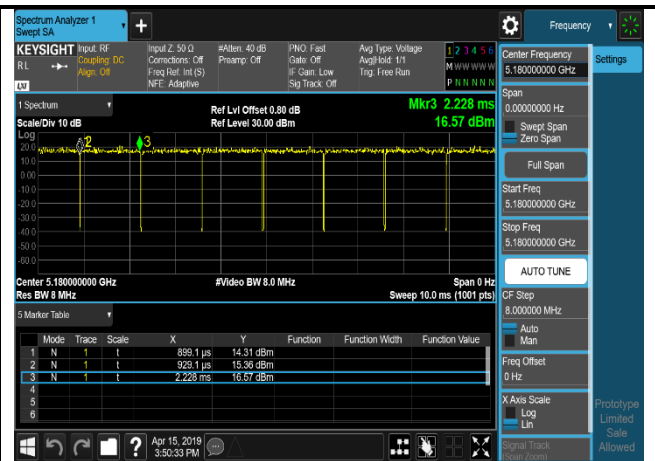
U-NII-1 Duty Cycle				
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11a	5180	Ant0	97.20	0.12
802.11a	5180	Ant1	97.90	0.09
802.11a	5200	Ant0	97.90	0.09
802.11a	5200	Ant1	97.20	0.12
802.11a	5240	Ant0	97.90	0.09
802.11a	5240	Ant1	97.89	0.09
802.11n (HT20)	5180	Ant0	97.01	0.13
802.11n (HT20)	5180	Ant1	97.74	0.10
802.11n (HT20)	5200	Ant0	97.74	0.10
802.11n (HT20)	5200	Ant1	97.74	0.10
802.11n (HT20)	5240	Ant0	97.74	0.10
802.11n (HT20)	5240	Ant1	97.01	0.13
802.11n (HT40)	5190	Ant0	94.12	0.26
802.11n (HT40)	5190	Ant1	95.59	0.20
802.11n (HT40)	5230	Ant0	95.59	0.20
802.11n (HT40)	5230	Ant1	94.20	0.26
802.11ac (VHT80)	5210	Ant0	84.30	0.74
802.11ac (VHT80)	5210	Ant1	83.93	0.76

3.2 Test Plots

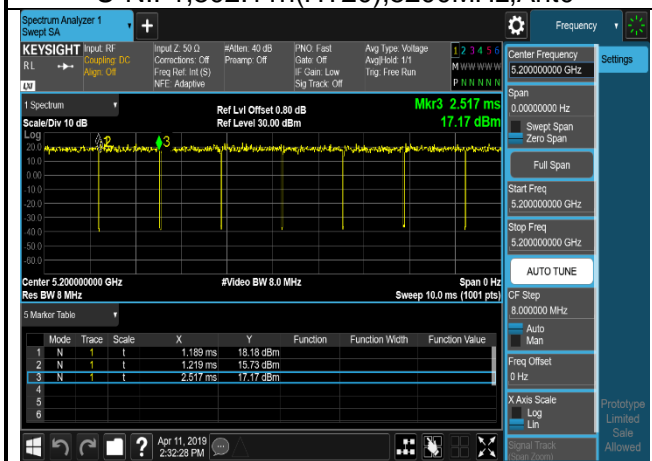




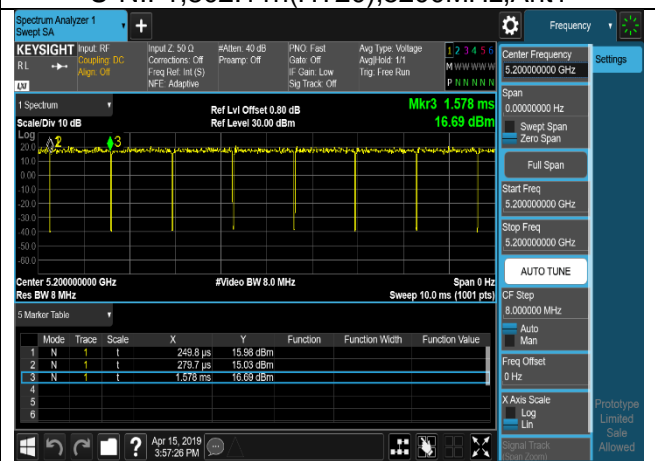
U-NII-1, 802.11n(HT20), 5200MHz, Ant0



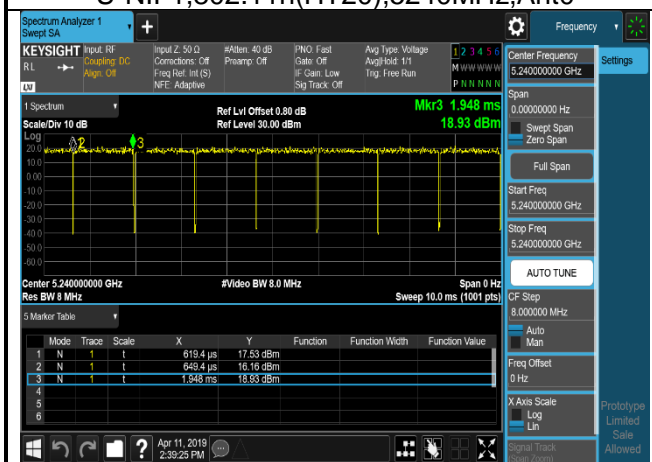
U-NII-1, 802.11n(HT20), 5200MHz, Ant1



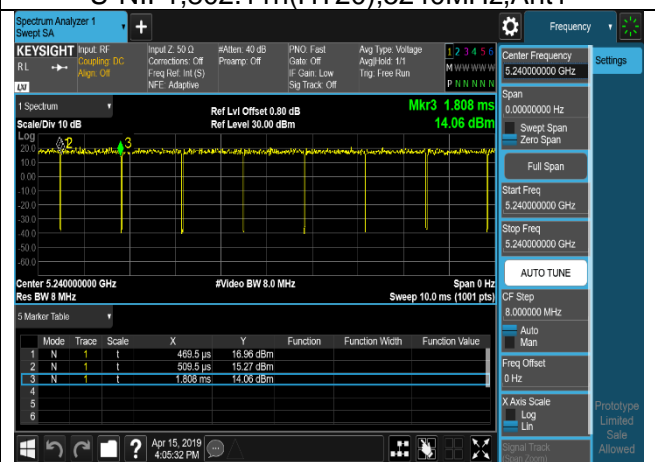
U-NII-1, 802.11n(HT20), 5240MHz, Ant0



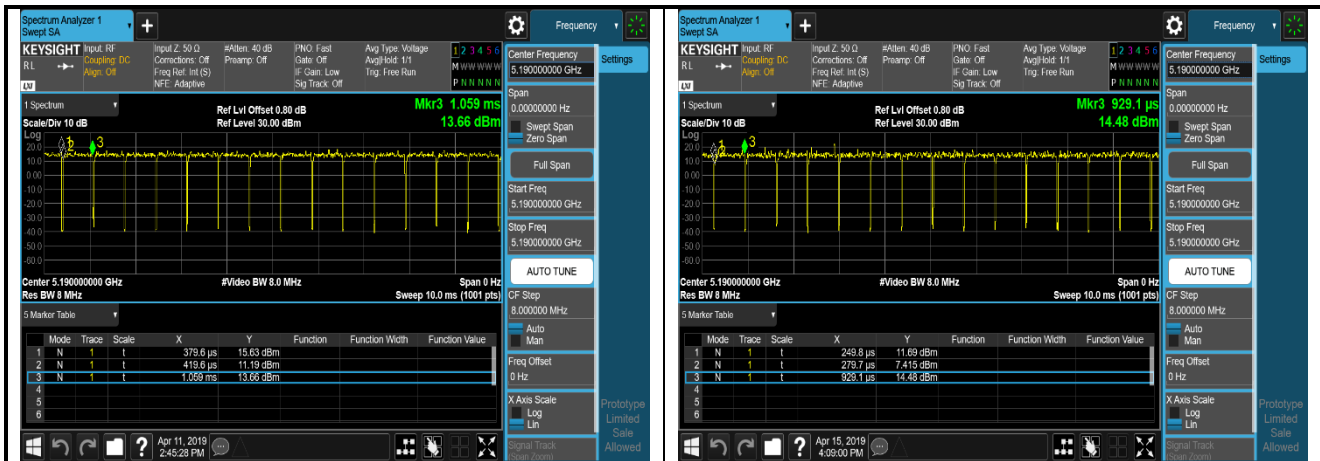
U-NII-1, 802.11n(HT20), 5240MHz, Ant1



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

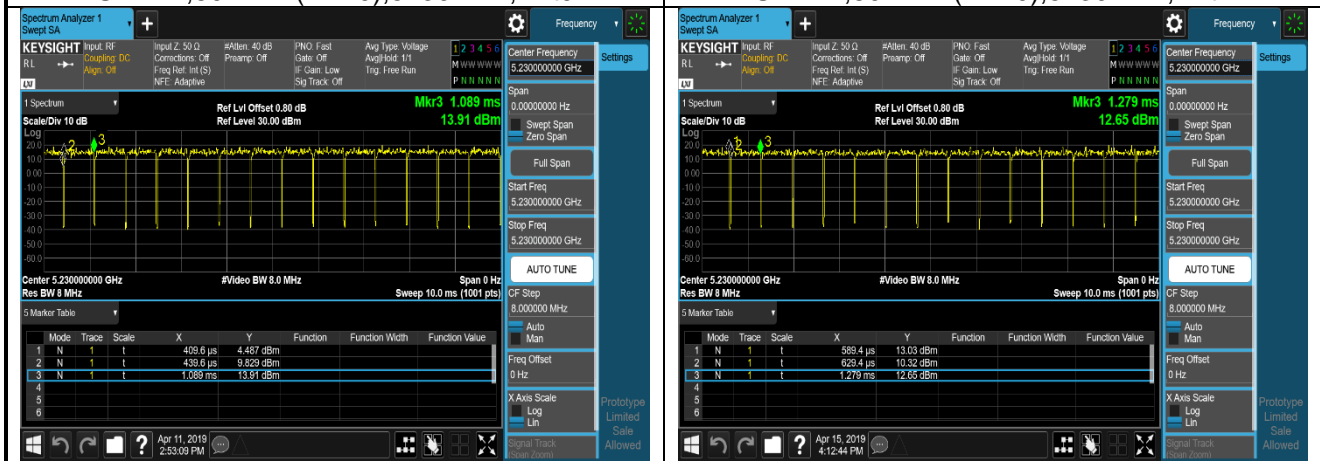


U-NII-1, 802.11n(HT40), 5190MHz, Ant1



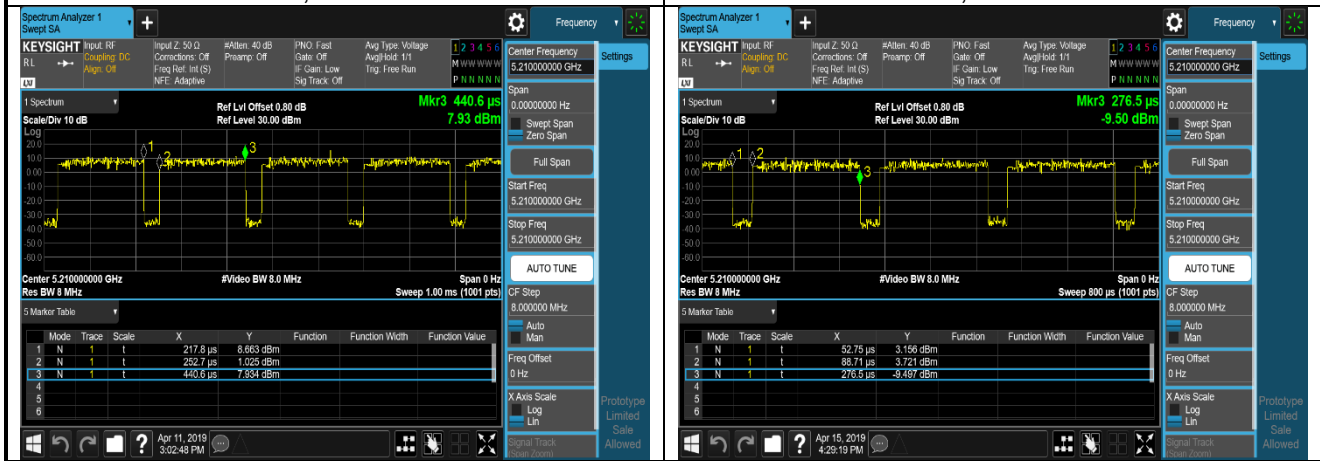
U-NII-1, 802.11n(HT40), 5230MHz, Ant0

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



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

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



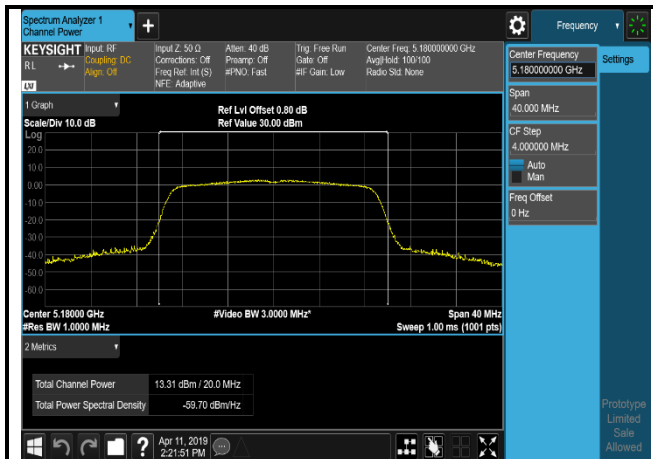
4. AVGSA Output Power

4.1 Test Data

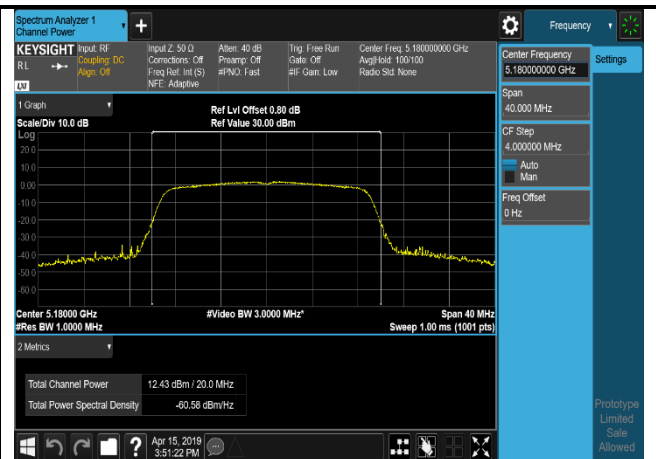
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Total Power (dBm)	FCC Power Limit (dBm)	EIRP (dBm)	IC EIRP Limit (dBm)	Result
802.11a	5180	Ant0	0.12	14.52	14.52	24	18.04	22	Pass
802.11a	5180	Ant1	0.09	13.55	13.55	24	16.99	22	Pass
802.11a	5200	Ant0	0.09	14.41	14.41	24	17.93	22	Pass
802.11a	5200	Ant1	0.12	13.80	13.80	24	17.24	22	Pass
802.11a	5240	Ant0	0.09	14.68	14.68	24	18.20	22	Pass
802.11a	5240	Ant1	0.09	13.99	13.99	24	17.43	22	Pass
802.11n (HT20)	5180	Ant0	0.13	13.44	16.02	24	19.50	22	Pass
802.11n (HT20)	5180	Ant1	0.10	12.53					
802.11n (HT20)	5200	Ant0	0.10	13.29	16.06	24	19.54	22	Pass
802.11n (HT20)	5200	Ant1	0.10	12.79					
802.11n (HT20)	5240	Ant0	0.10	13.54	16.27	24	19.75	22	Pass
802.11n (HT20)	5240	Ant1	0.13	12.97					
802.11n (HT40)	5190	Ant0	0.26	13.29	15.90	24	19.38	23	Pass
802.11n (HT40)	5190	Ant1	0.20	12.45					
802.11n (HT40)	5230	Ant0	0.20	13.35	16.14	24	19.62	23	Pass
802.11n (HT40)	5230	Ant1	0.26	12.89					
802.11ac (VHT80)	5210	Ant0	0.74	10.45	13.12	24	16.60	23	Pass
802.11ac (VHT80)	5210	Ant1	0.76	9.75					

4.2 Test Plots

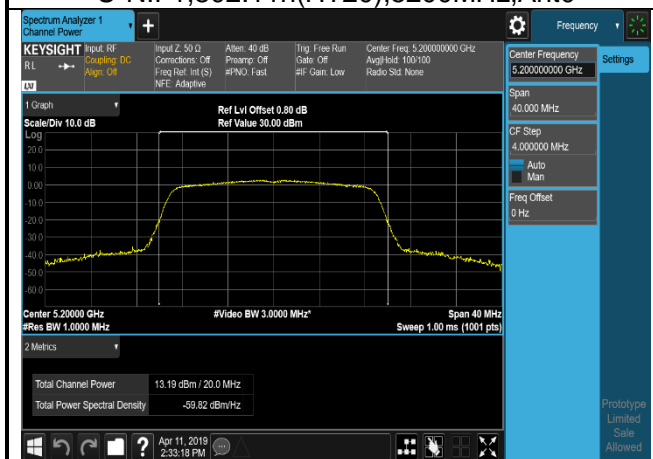




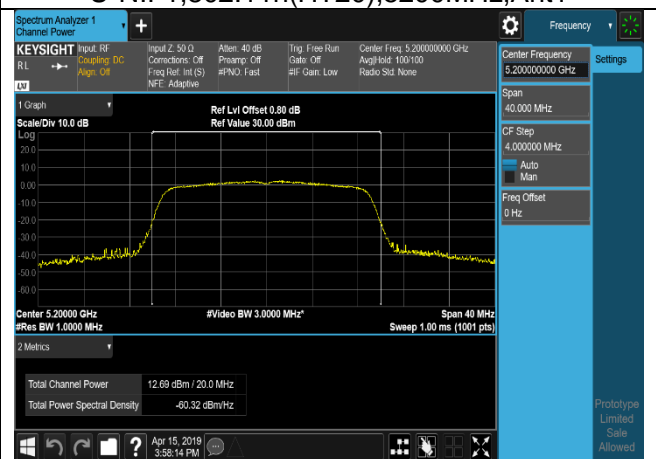
U-NII-1,802.11n(HT20),5200MHz,Ant0



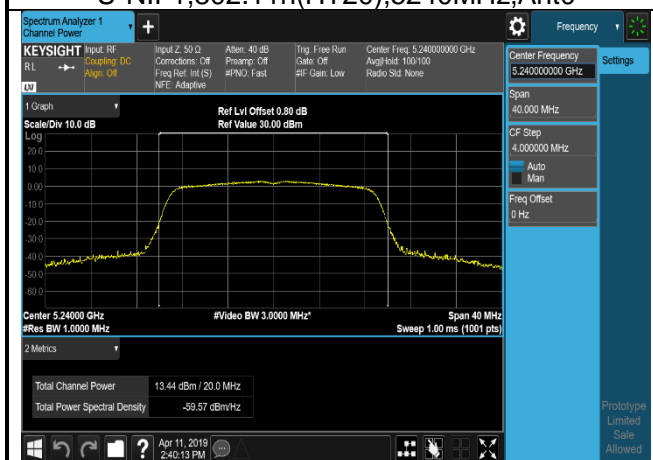
U-NII-1,802.11n(HT20),5200MHz,Ant1



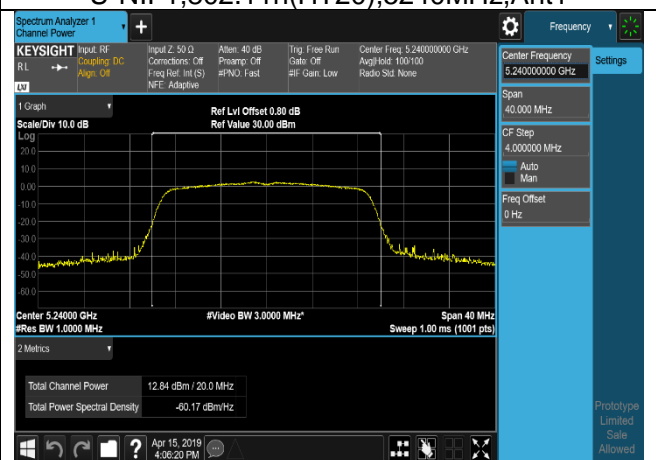
U-NII-1,802.11n(HT20),5240MHz,Ant0



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



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



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