

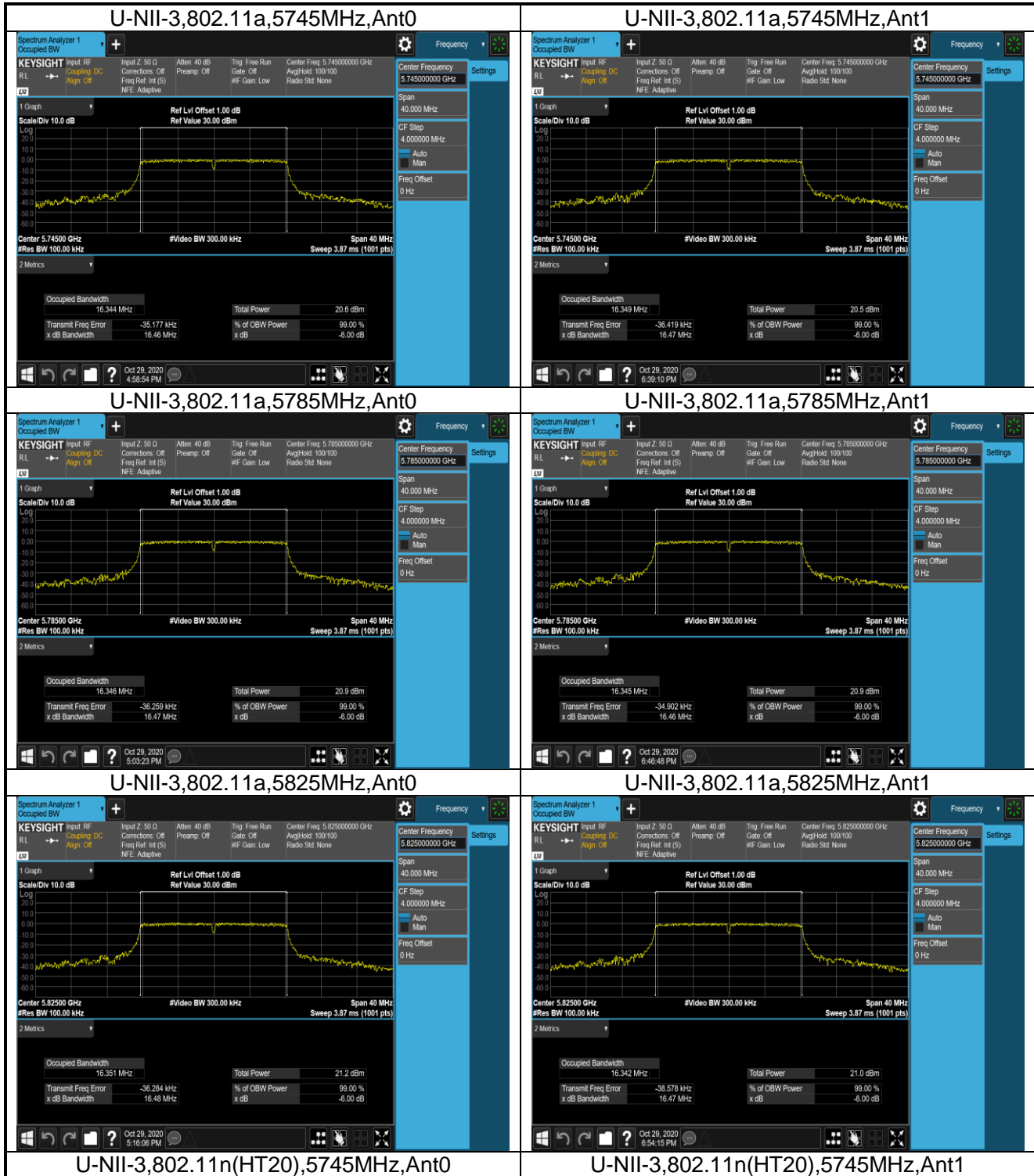
Appendix A: Test results

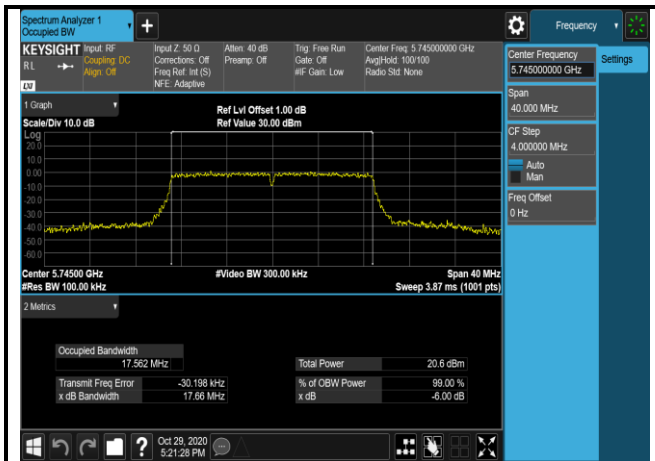
1. Occupied N dB Bandwidth

1.1 Test Data

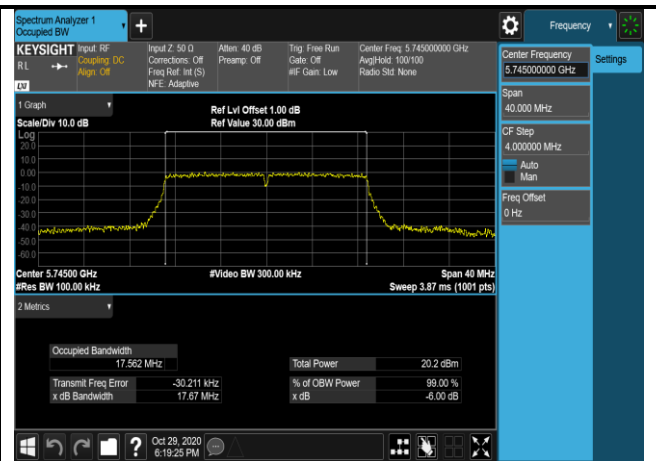
U-NII-3 Occupied N dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11a	5745	Ant0	16.47	Pass
802.11a	5745	Ant1	16.48	Pass
802.11a	5785	Ant0	16.47	Pass
802.11a	5785	Ant1	16.46	Pass
802.11a	5825	Ant0	16.48	Pass
802.11a	5825	Ant1	16.47	Pass
802.11n (HT20)	5745	Ant0	17.66	Pass
802.11n (HT20)	5745	Ant1	17.67	Pass
802.11n (HT20)	5785	Ant0	17.66	Pass
802.11n (HT20)	5785	Ant1	17.66	Pass
802.11n (HT20)	5825	Ant0	17.68	Pass
802.11n (HT20)	5825	Ant1	17.66	Pass
802.11n (HT40)	5755	Ant0	36.43	Pass
802.11n (HT40)	5755	Ant1	36.45	Pass
802.11n (HT40)	5795	Ant0	36.46	Pass
802.11n (HT40)	5795	Ant1	36.46	Pass
802.11ac (VHT80)	5775	Ant0	76.04	Pass
802.11ac (VHT80)	5775	Ant1	76.05	Pass

1.2 Test Plots

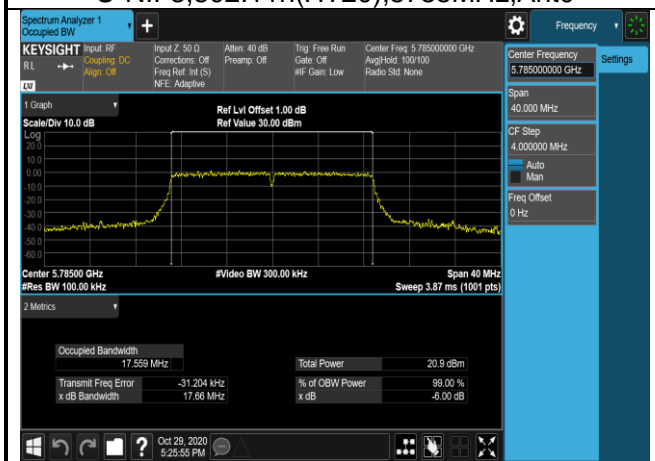




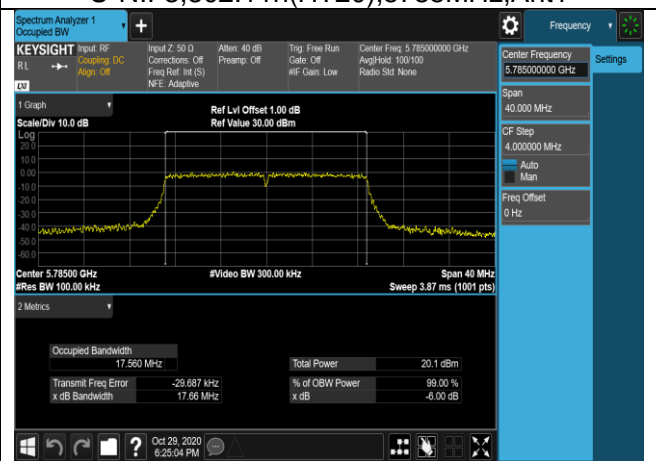
U-NII-3,802.11n(HT20),5785MHz,Ant0



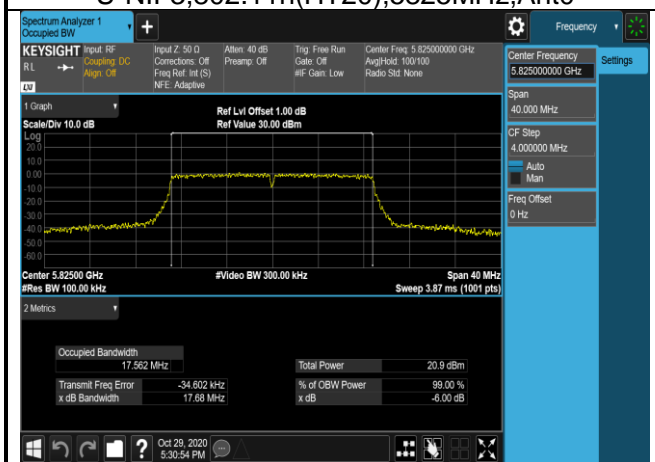
U-NII-3,802.11n(HT20),5785MHz,Ant1



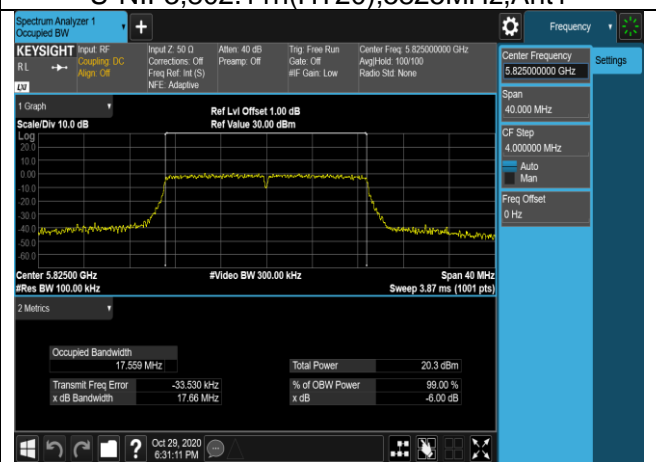
U-NII-3,802.11n(HT20),5825MHz,Ant0



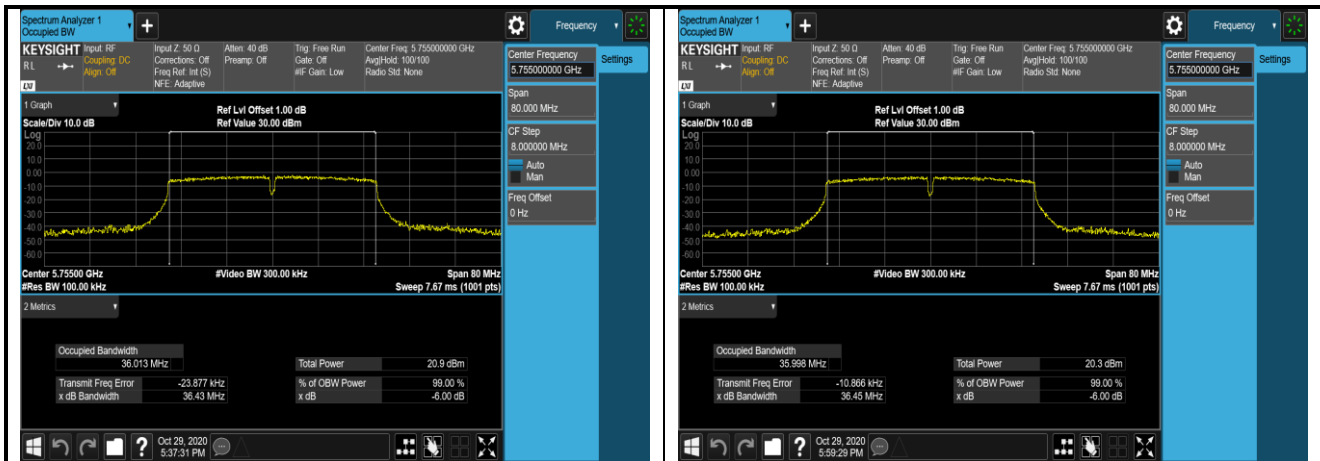
U-NII-3,802.11n(HT20),5825MHz,Ant1



U-NII-3,802.11n(HT40),5755MHz,Ant0

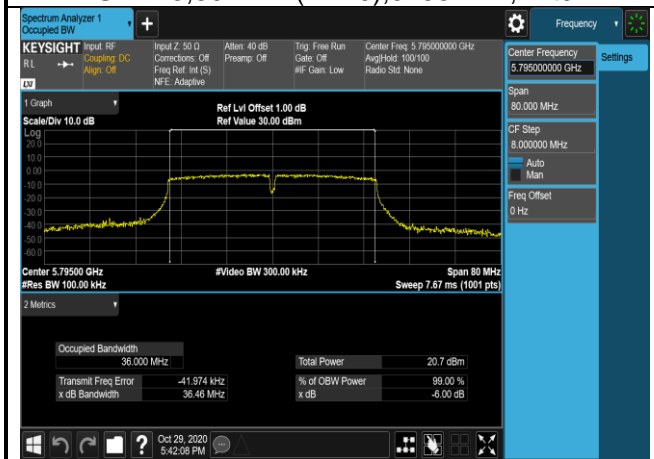


U-NII-3,802.11n(HT40),5755MHz,Ant1

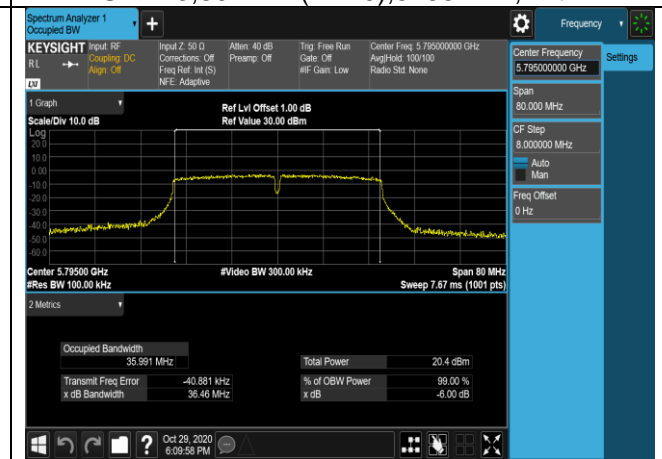


U-NII-3,802.11n(HT40),5795MHz,Ant0

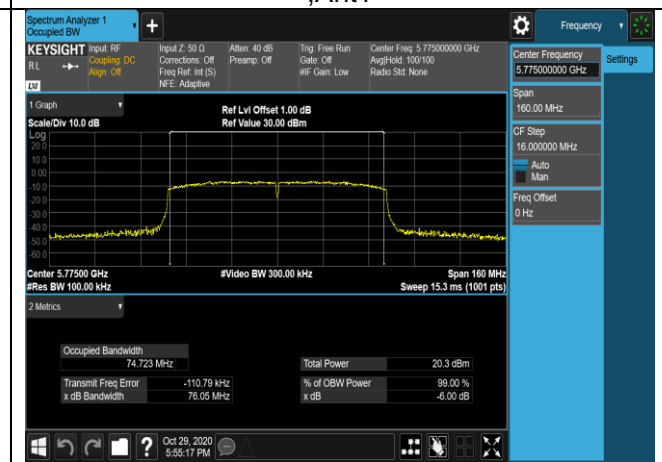
U-NII-3,802.11n(HT40),5795MHz,Ant1



U-NII-3,802.11ac(VHT80),5775MHz
,Ant0



U-NII-3,802.11ac(VHT80),5775MHz
,Ant1

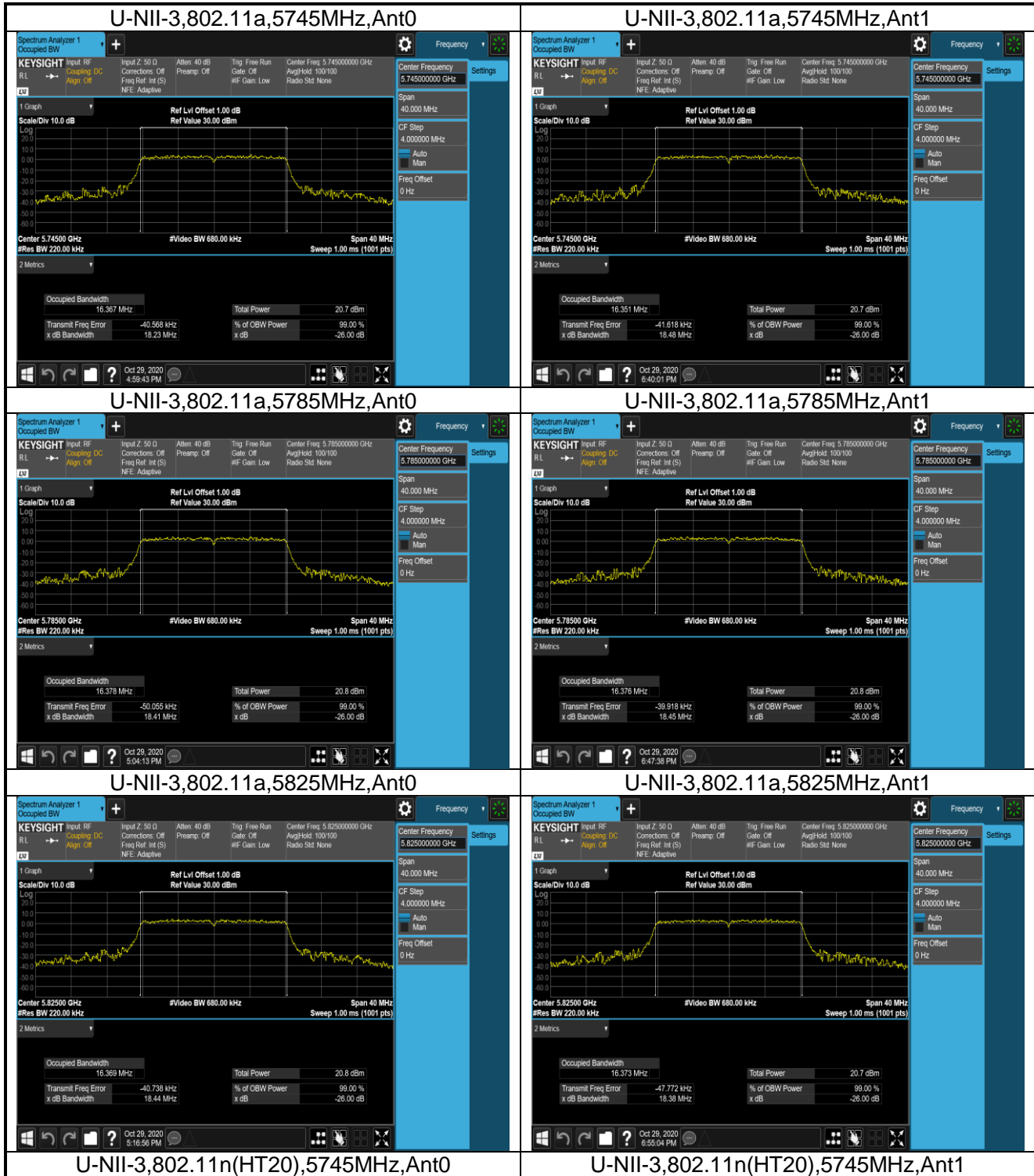


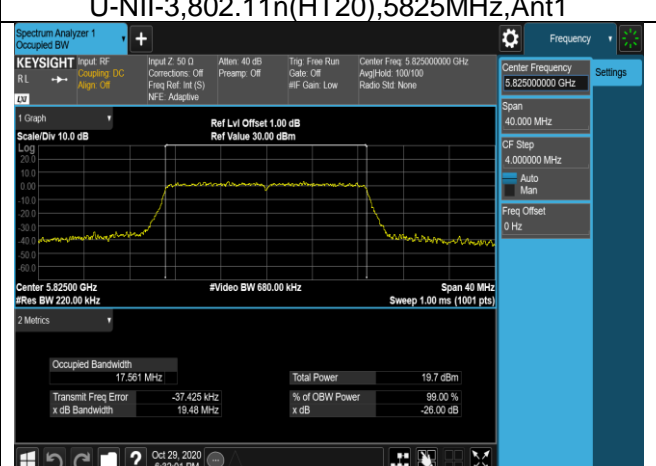
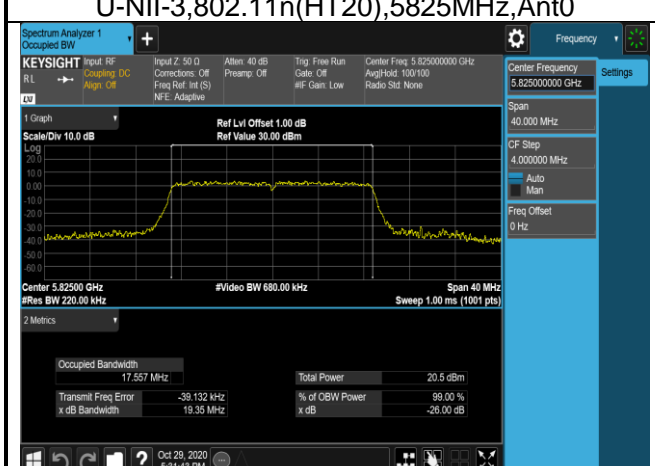
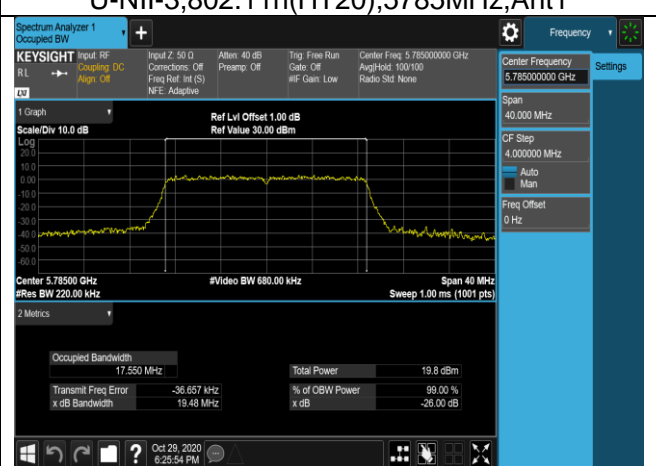
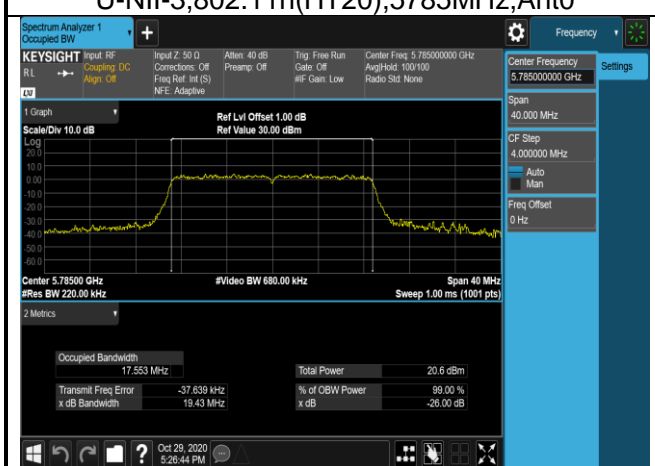
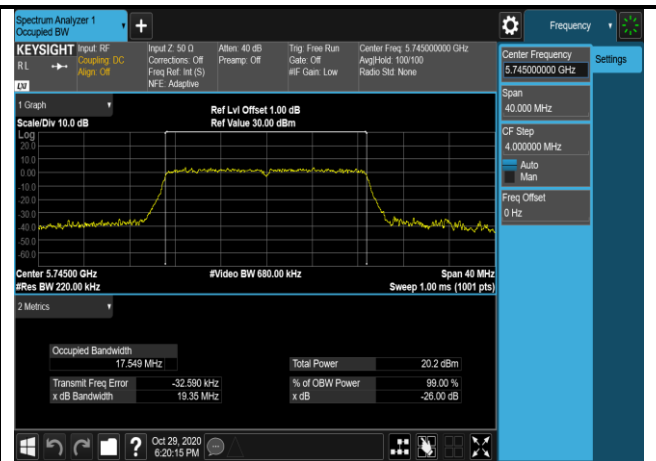
2. 99% Occupied Bandwidth

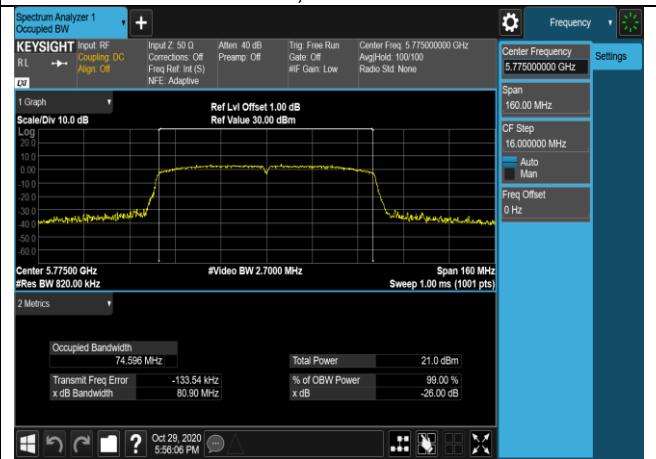
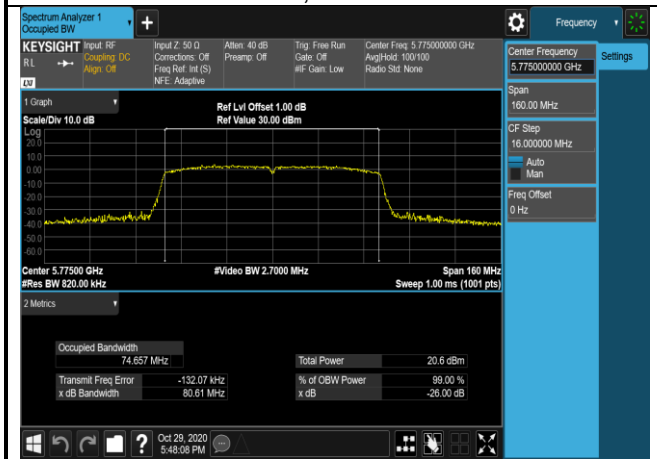
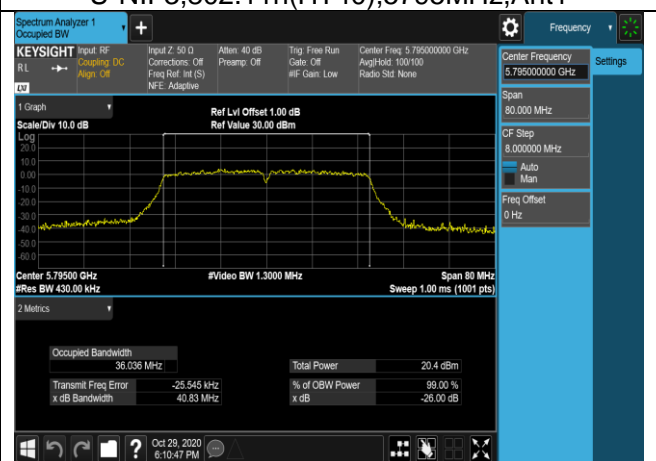
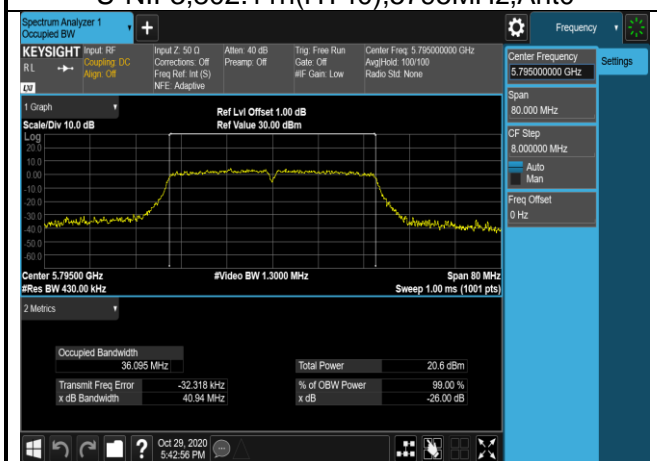
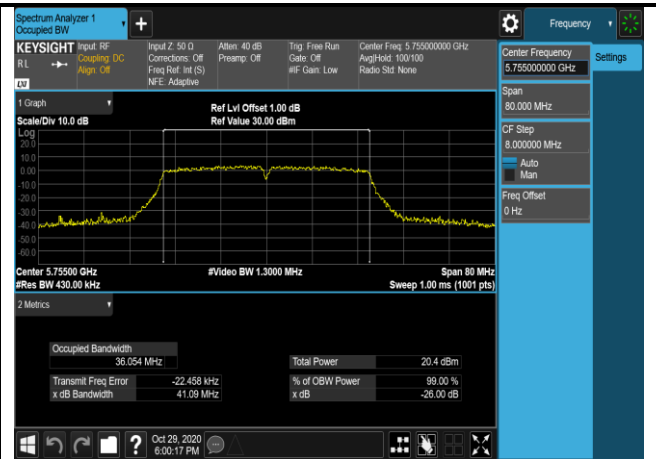
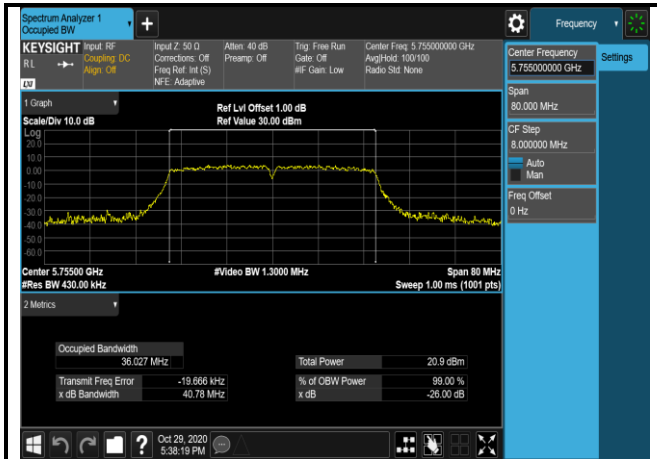
2.1 Test Data

U-NII-3 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11a	5745	Ant0	16.367	Pass
802.11a	5745	Ant1	16.351	Pass
802.11a	5785	Ant0	16.378	Pass
802.11a	5785	Ant1	16.376	Pass
802.11a	5825	Ant0	16.369	Pass
802.11a	5825	Ant1	16.373	Pass
802.11n (HT20)	5745	Ant0	17.561	Pass
802.11n (HT20)	5745	Ant1	17.549	Pass
802.11n (HT20)	5785	Ant0	17.553	Pass
802.11n (HT20)	5785	Ant1	17.550	Pass
802.11n (HT20)	5825	Ant0	17.557	Pass
802.11n (HT20)	5825	Ant1	17.561	Pass
802.11n (HT40)	5755	Ant0	36.027	Pass
802.11n (HT40)	5755	Ant1	36.054	Pass
802.11n (HT40)	5795	Ant0	36.095	Pass
802.11n (HT40)	5795	Ant1	36.036	Pass
802.11ac (VHT80)	5775	Ant0	74.657	Pass
802.11ac (VHT80)	5775	Ant1	74.596	Pass

2.2 Test Plots







3. Duty Cycle

3.1 Test Data

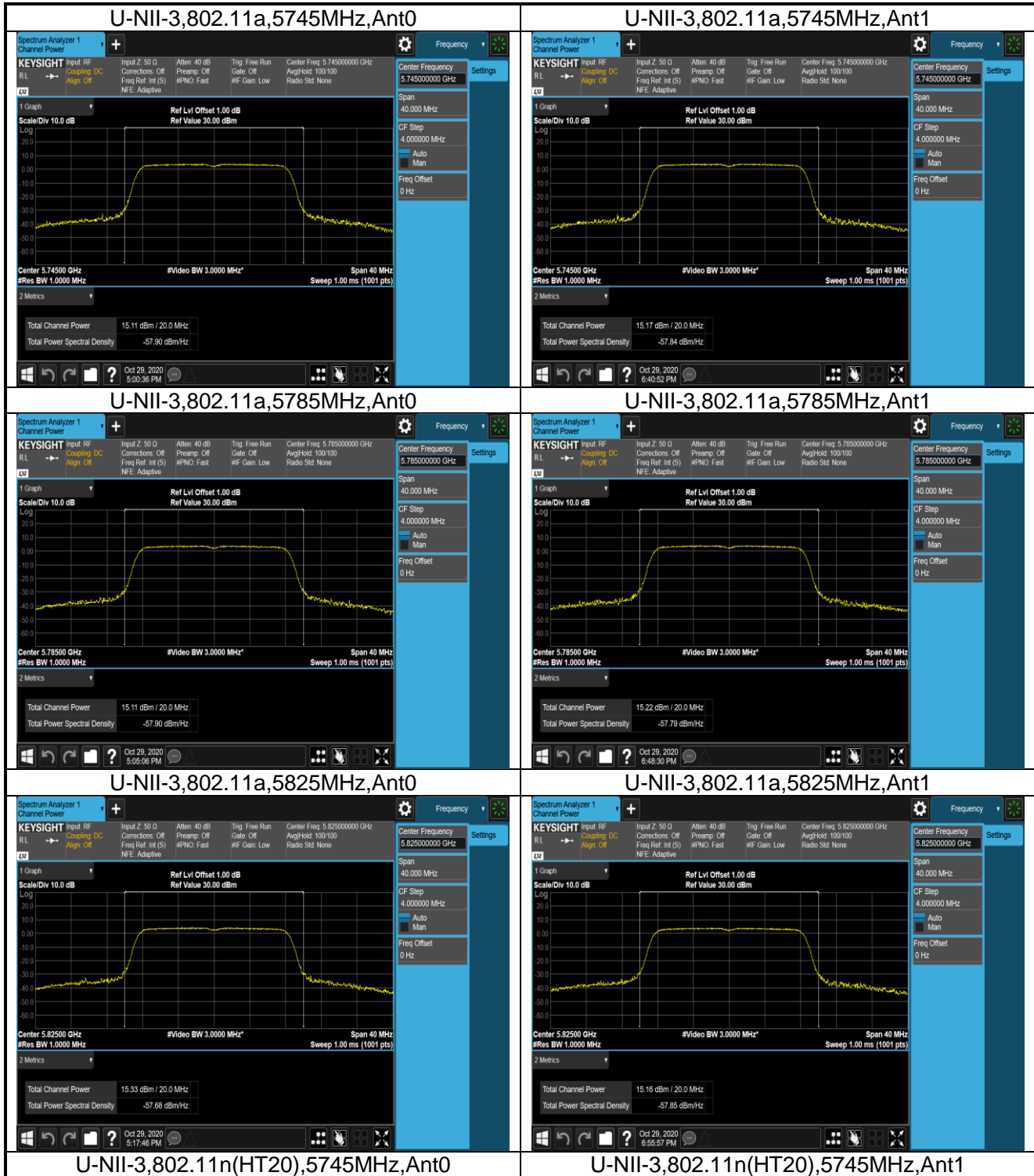
U-NII-3 Duty Cycle				
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11a	5745	Ant0	100	0
802.11a	5745	Ant1	100	0
802.11a	5785	Ant0	100	0
802.11a	5785	Ant1	100	0
802.11a	5825	Ant0	100	0
802.11a	5825	Ant1	100	0
802.11n (HT20)	5745	Ant0	100	0
802.11n (HT20)	5745	Ant1	100	0
802.11n (HT20)	5785	Ant0	100	0
802.11n (HT20)	5785	Ant1	100	0
802.11n (HT20)	5825	Ant0	100	0
802.11n (HT20)	5825	Ant1	100	0
802.11n (HT40)	5755	Ant0	100	0
802.11n (HT40)	5755	Ant1	100	0
802.11n (HT40)	5795	Ant0	100	0
802.11n (HT40)	5795	Ant1	100	0
802.11ac (VHT80)	5775	Ant0	100	0
802.11ac (VHT80)	5775	Ant1	100	0

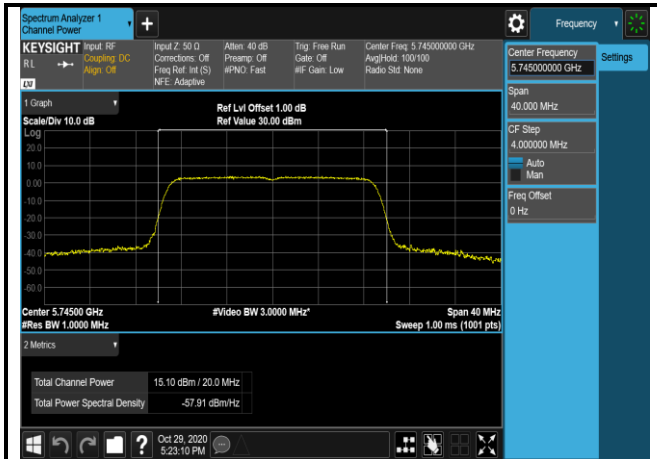
4. AVGSA Output Power

4.1 Test Data

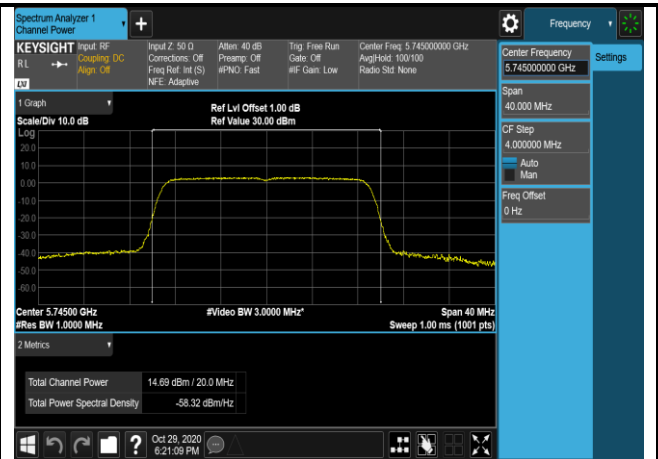
U-NII-3 AVGSA Output Power								
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Total Power (dBm)	Limit (dBm)	EIRP (dBm)	Result
802.11a	5745	Ant0	0.00	15.11	15.11	30	17.48	Pass
802.11a	5745	Ant1	0.00	15.17	15.17	30	17.50	Pass
802.11a	5785	Ant0	0.00	15.11	15.11	30	17.43	Pass
802.11a	5785	Ant1	0.00	15.22	15.22	30	17.48	Pass
802.11a	5825	Ant0	0.00	15.33	15.33	30	17.59	Pass
802.11a	5825	Ant1	0.00	15.16	15.16	30	17.03	Pass
802.11n (HT20)	5745	Ant0	0.00	15.10	17.91	30	20.40	Pass
802.11n (HT20)	5745	Ant1	0.00	14.69				
802.11n (HT20)	5785	Ant0	0.00	15.10	17.74	30	20.22	Pass
802.11n (HT20)	5785	Ant1	0.00	14.32				
802.11n (HT20)	5825	Ant0	0.00	14.93	17.64	30	20.12	Pass
802.11n (HT20)	5825	Ant1	0.00	14.30				
802.11n (HT40)	5755	Ant0	0.00	14.93	17.73	30	20.22	Pass
802.11n (HT40)	5755	Ant1	0.00	14.50				
802.11n (HT40)	5795	Ant0	0.00	14.74	17.60	30	20.08	Pass
802.11n (HT40)	5795	Ant1	0.00	14.43				
802.11ac (VHT80)	5775	Ant0	0.00	13.58	16.80	30	19.29	Pass
802.11ac (VHT80)	5775	Ant1	0.00	13.99				

4.2 Test Plots

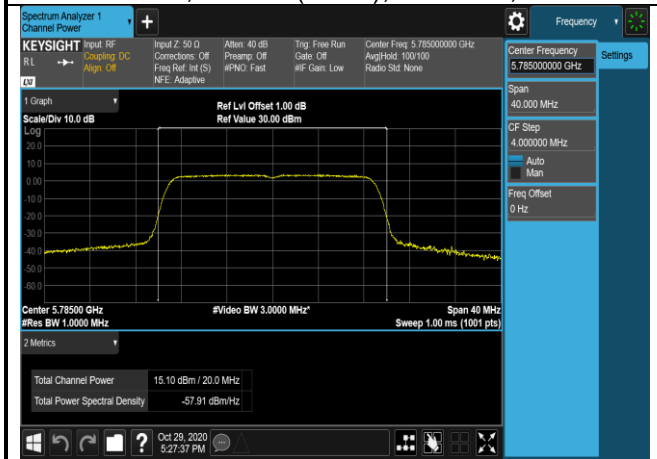




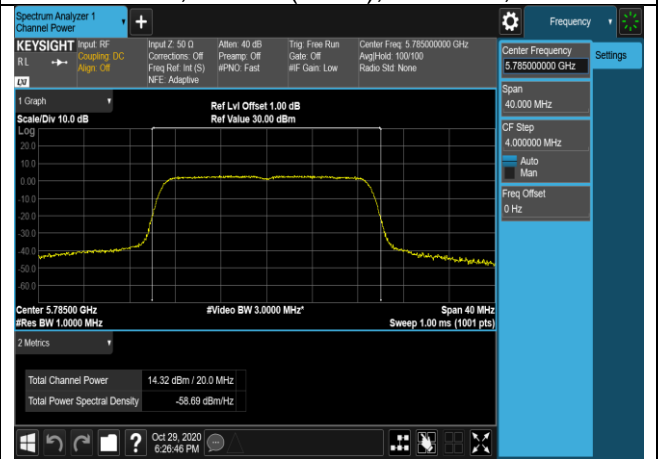
U-NII-3,802.11n(HT20),5785MHz,Ant0



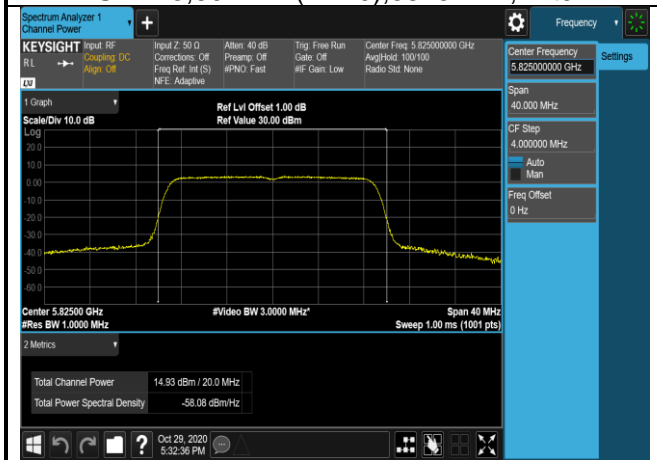
U-NII-3,802.11n(HT20),5785MHz,Ant1



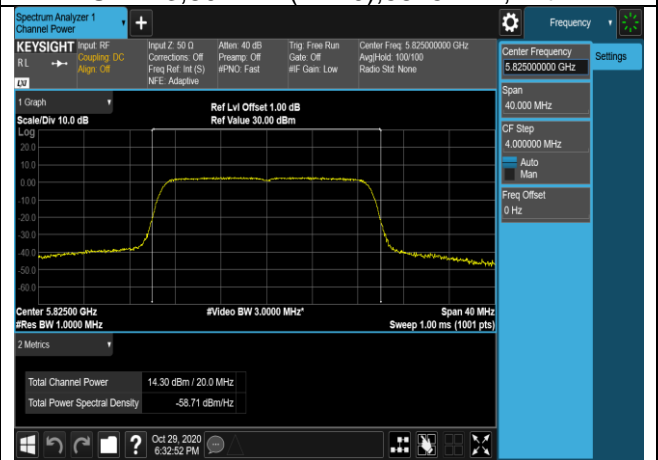
U-NII-3,802.11n(HT20),5825MHz,Ant0



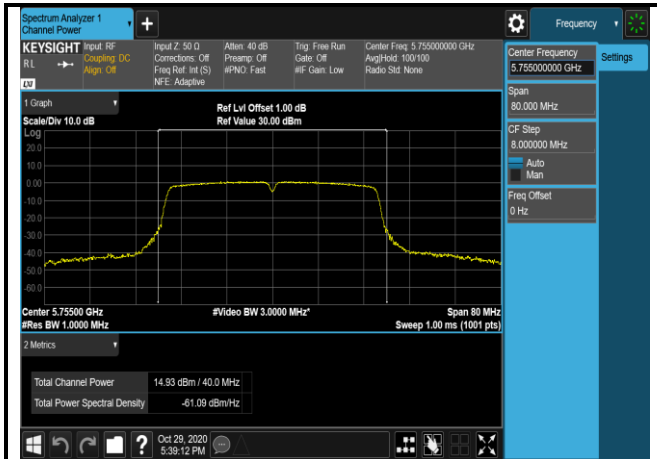
U-NII-3,802.11n(HT20),5825MHz,Ant1



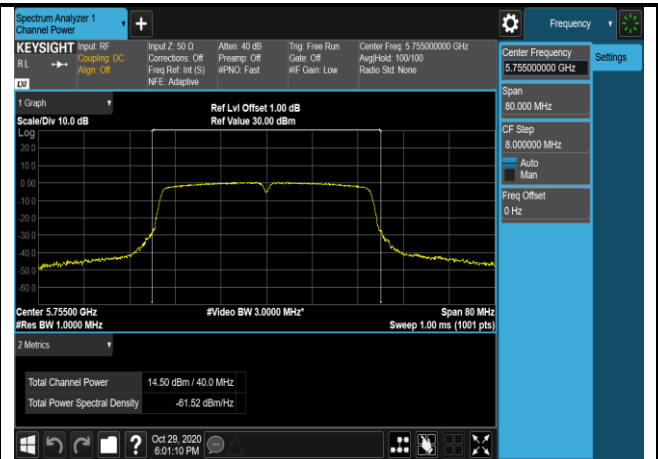
U-NII-3,802.11n(HT40),5755MHz,Ant0



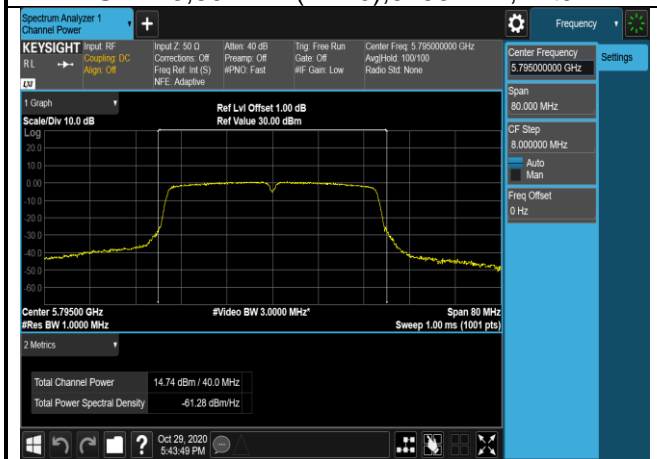
U-NII-3,802.11n(HT40),5755MHz,Ant1



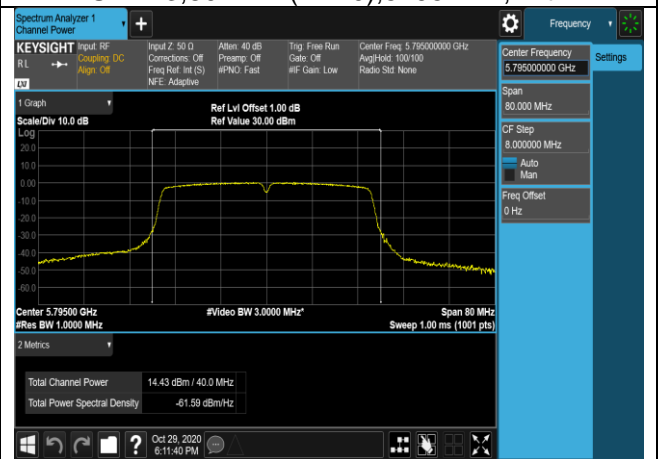
U-NII-3,802.11n(HT40),5795MHz,Ant0



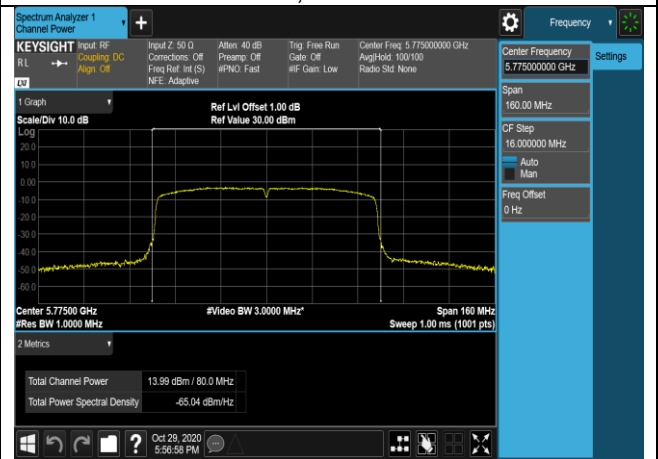
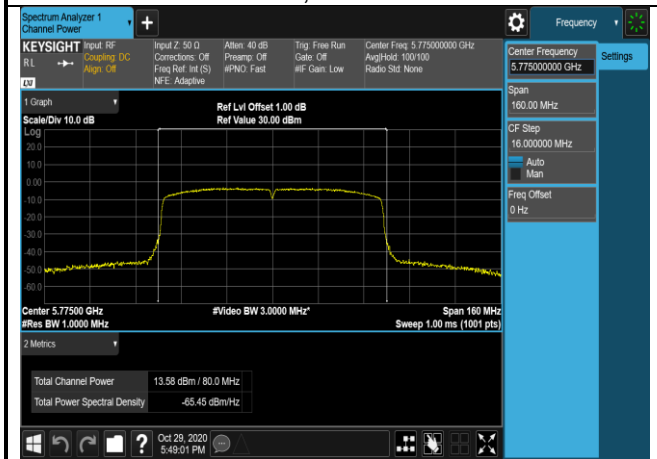
U-NII-3,802.11n(HT40),5795MHz,Ant1



U-NII-3,802.11ac(VHT80),5775MHz,Ant0



U-NII-3,802.11ac(VHT80),5775MHz,Ant1



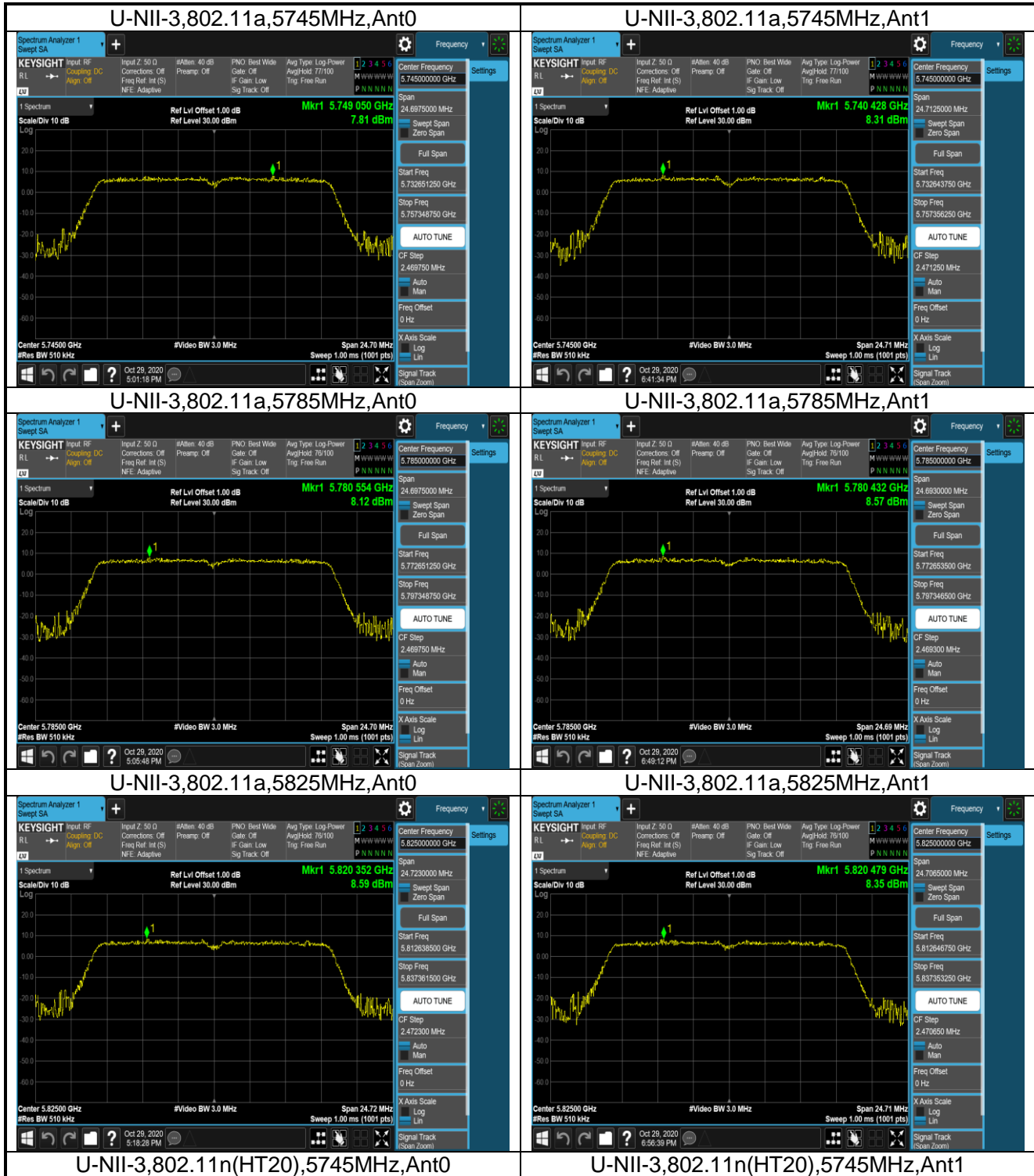
5. AVGSA Power Spectral Density

5.1 Test Data

U-NII-3 AVGSA Power Spectral Density							
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	PSD (dBm)	RBW (kHz)	Limit (dBm)	Result
802.11a	5745	Ant0	0.00	7.811	510	30	Pass
802.11a	5745	Ant1	0.00	8.310	510	30	Pass
802.11a	5785	Ant0	0.00	8.118	510	30	Pass
802.11a	5785	Ant1	0.00	8.568	510	30	Pass
802.11a	5825	Ant0	0.00	8.591	510	30	Pass
802.11a	5825	Ant1	0.00	8.348	510	30	Pass
802.11n (HT20)	5745	Ant0	0.00	7.853	510	30	Pass
802.11n (HT20)	5745	Ant1	0.00	7.432	510	30	Pass
802.11n (HT20)	5785	Ant0	0.00	8.219	510	30	Pass
802.11n (HT20)	5785	Ant1	0.00	7.307	510	30	Pass
802.11n (HT20)	5825	Ant0	0.00	8.015	510	30	Pass
802.11n (HT20)	5825	Ant1	0.00	7.143	510	30	Pass
802.11n (HT40)	5755	Ant0	0.00	4.880	510	30	Pass
802.11n (HT40)	5755	Ant1	0.00	4.365	510	30	Pass
802.11n (HT40)	5795	Ant0	0.00	4.375	510	30	Pass
802.11n (HT40)	5795	Ant1	0.00	4.203	510	30	Pass
802.11ac (VHT80)	5775	Ant0	0.00	1.089	510	30	Pass
802.11ac (VHT80)	5775	Ant1	0.00	0.869	510	30	Pass

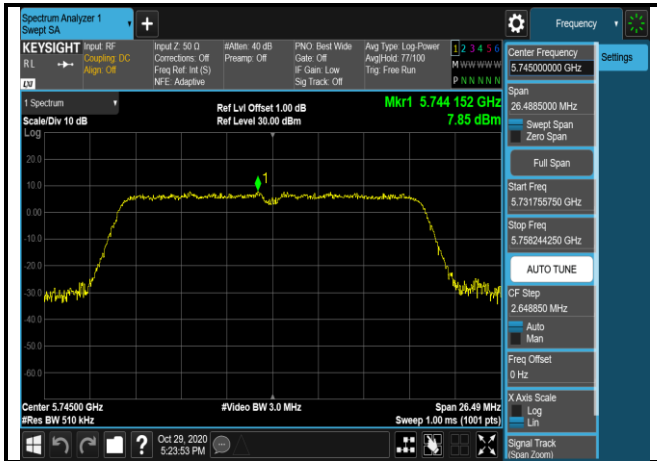
U-NII-3 AVGSA Power Spectral Density								
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	PSD (dBm)	Total PSD (dBm)	RBW (kHz)	Limit (dBm)	Result
802.11a	5745	Ant0	0.00	7.811	7.811	510	30	Pass
802.11a	5745	Ant1	0.00	8.310	8.310	510	30	Pass
802.11a	5785	Ant0	0.00	8.118	8.118	510	30	Pass
802.11a	5785	Ant1	0.00	8.568	8.568	510	30	Pass
802.11a	5825	Ant0	0.00	8.591	8.591	510	30	Pass
802.11a	5825	Ant1	0.00	8.348	8.348	510	30	Pass
802.11n (HT20)	5745	Ant0	0.00	7.853	10.66	510	30	Pass
802.11n (HT20)	5745	Ant1	0.00	7.432				
802.11n (HT20)	5785	Ant0	0.00	8.219	10.80	510	30	Pass
802.11n (HT20)	5785	Ant1	0.00	7.307				
802.11n (HT20)	5825	Ant0	0.00	8.015	10.61	510	30	Pass
802.11n (HT20)	5825	Ant1	0.00	7.143				
802.11n (HT40)	5755	Ant0	0.00	4.880	7.64	510	30	Pass
802.11n (HT40)	5755	Ant1	0.00	4.365				
802.11n (HT40)	5795	Ant0	0.00	4.375	7.30	510	30	Pass
802.11n (HT40)	5795	Ant1	0.00	4.203				
802.11ac (VHT80)	5775	Ant0	0.00	1.089	3.99	510	30	Pass
802.11ac (VHT80)	5775	Ant1	0.00	0.869				

5.2 Test Plots

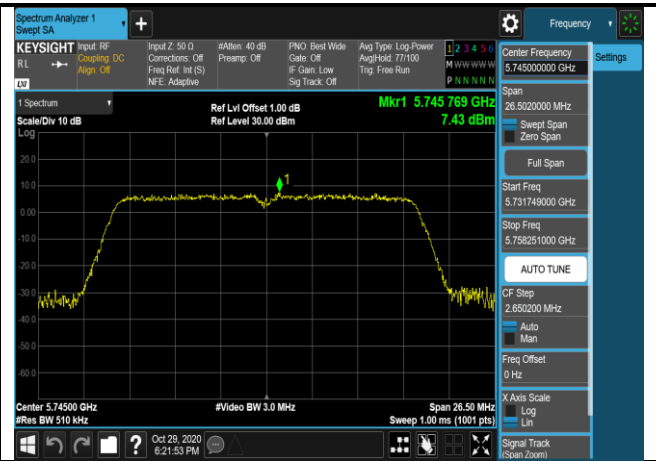


U-NII-3,802.11n(HT20),5745MHz,Ant0

U-NII-3,802.11n(HT20),5745MHz,Ant1



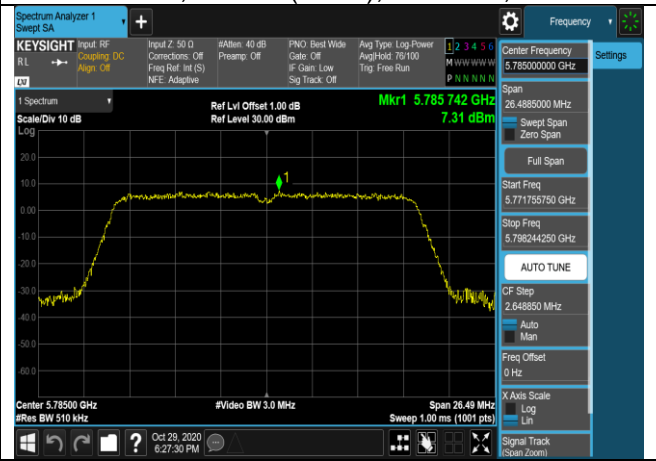
U-NII-3,802.11n(HT20),5785MHz,Ant0



U-NII-3,802.11n(HT20),5785MHz,Ant1



U-NII-3,802.11n(HT20),5825MHz,Ant0



U-NII-3,802.11n(HT20),5825MHz,Ant1



U-NII-3,802.11n(HT40),5755MHz,Ant0



U-NII-3,802.11n(HT40),5755MHz,Ant1

