

TEST REPORT

Appendix A: Test results

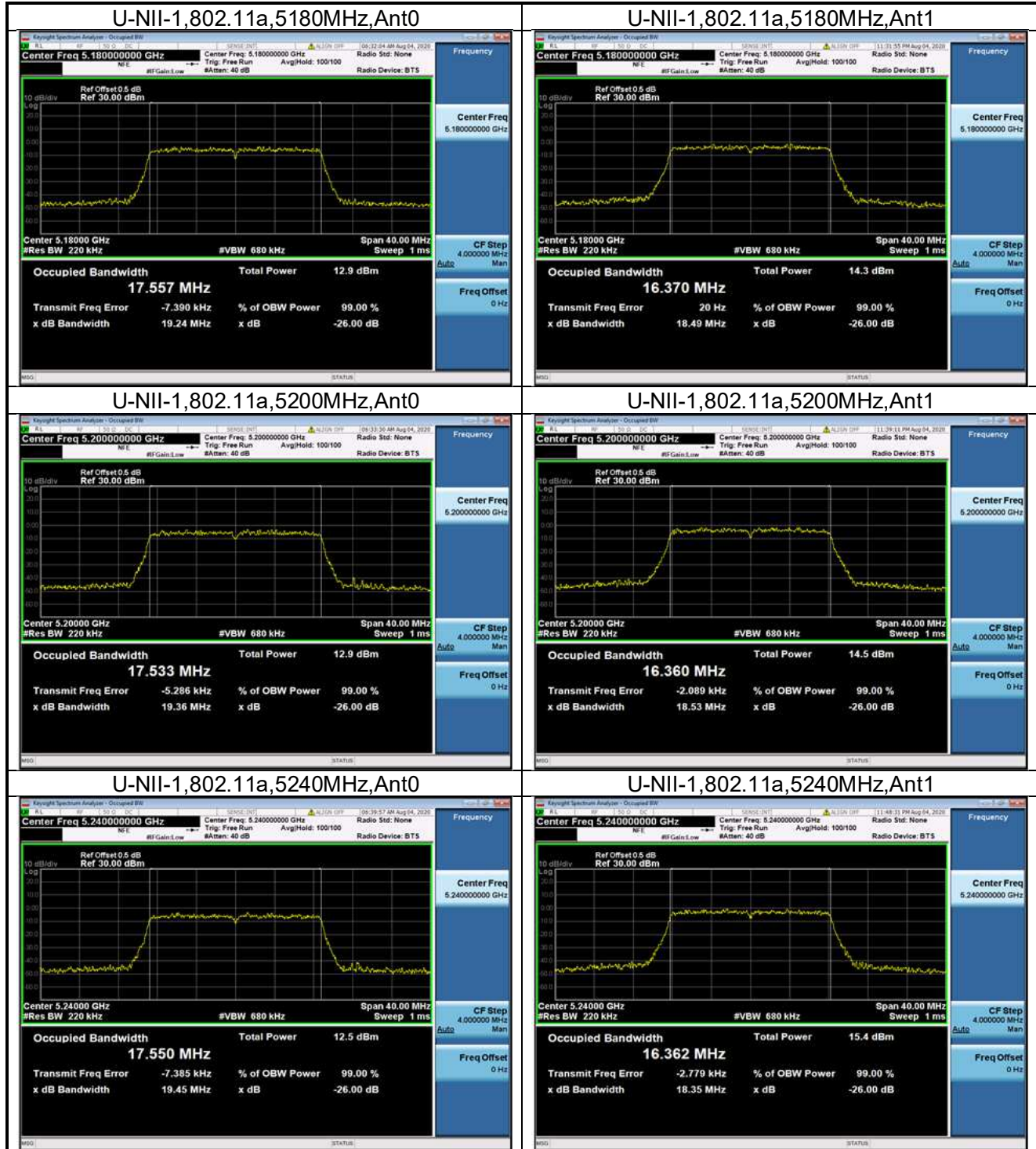
1. Occupied N dB Bandwidth

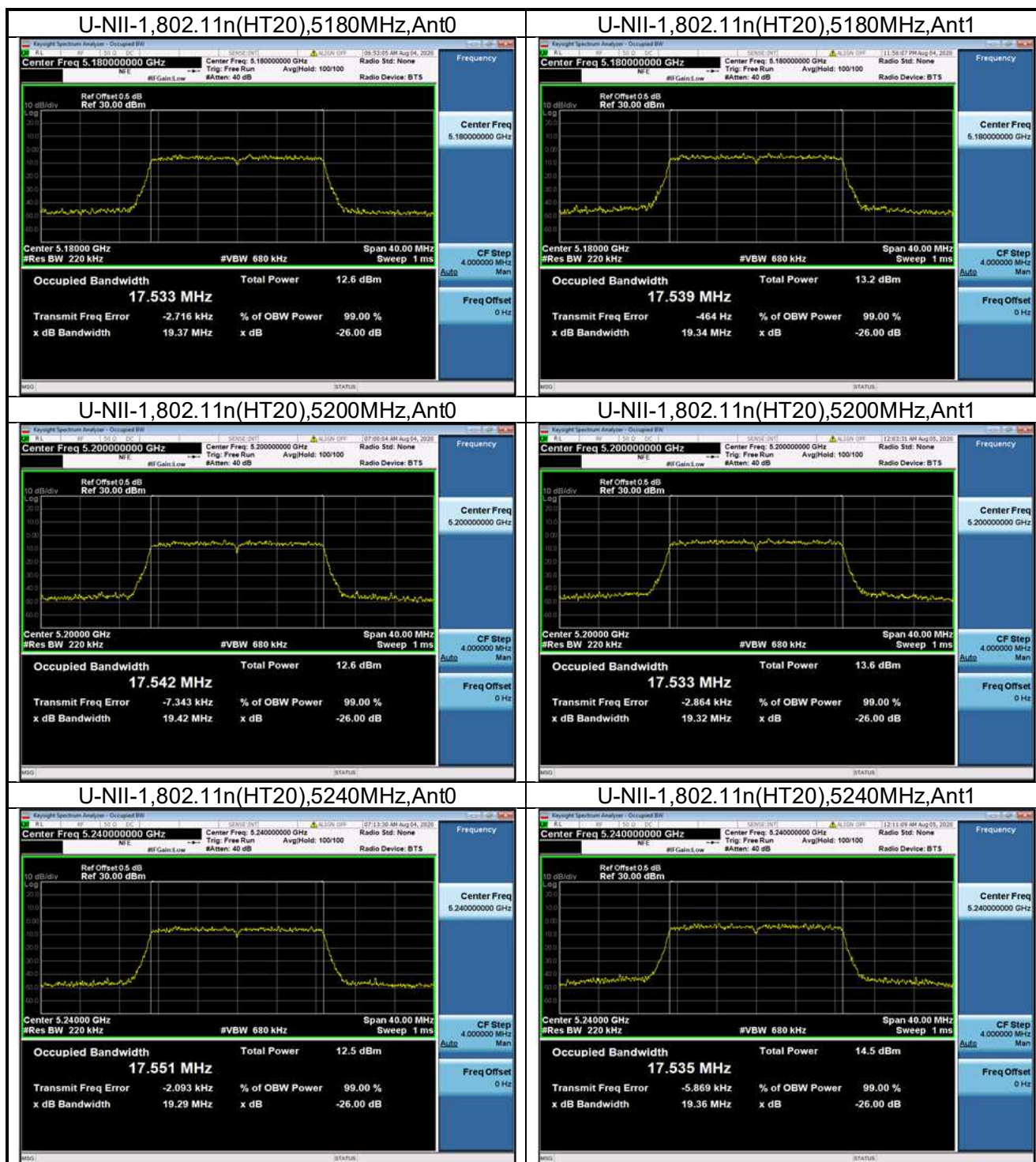
1.1 Test Data

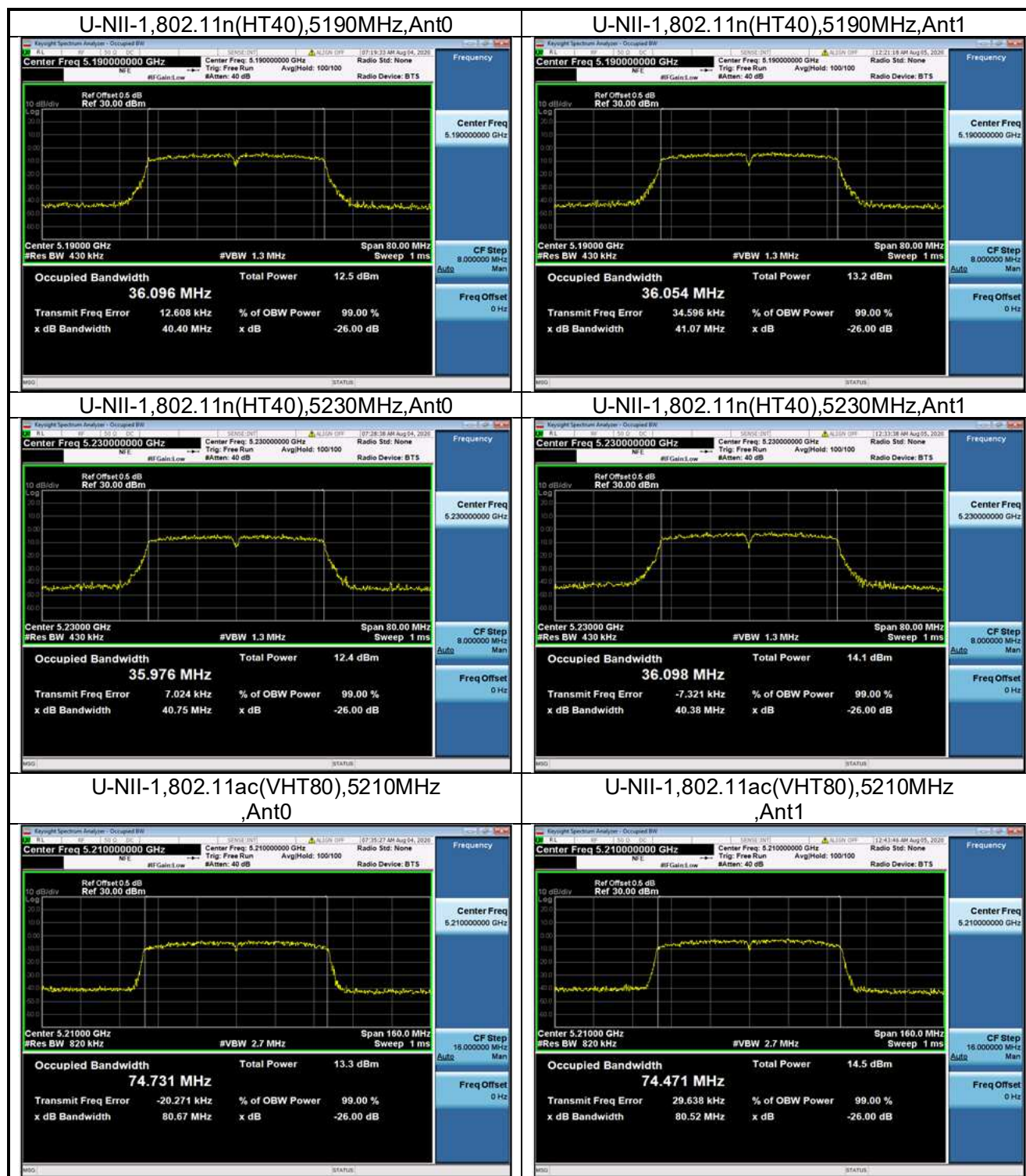
U-NII-1 Occupied N dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11a	5180	Ant0	19.24	Pass
802.11a	5180	Ant1	18.49	Pass
802.11a	5200	Ant0	19.36	Pass
802.11a	5200	Ant1	18.53	Pass
802.11a	5240	Ant0	19.45	Pass
802.11a	5240	Ant1	18.35	Pass
802.11n (HT20)	5180	Ant0	19.37	Pass
802.11n (HT20)	5180	Ant1	19.34	Pass
802.11n (HT20)	5200	Ant0	19.42	Pass
802.11n (HT20)	5200	Ant1	19.32	Pass
802.11n (HT20)	5240	Ant0	19.29	Pass
802.11n (HT20)	5240	Ant1	19.36	Pass
802.11n (HT40)	5190	Ant0	40.40	Pass
802.11n (HT40)	5190	Ant1	41.07	Pass
802.11n (HT40)	5230	Ant0	40.75	Pass
802.11n (HT40)	5230	Ant1	40.38	Pass
802.11ac (VHT80)	5210	Ant0	80.68	Pass
802.11ac (VHT80)	5210	Ant1	80.52	Pass

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1.2 Test Plots







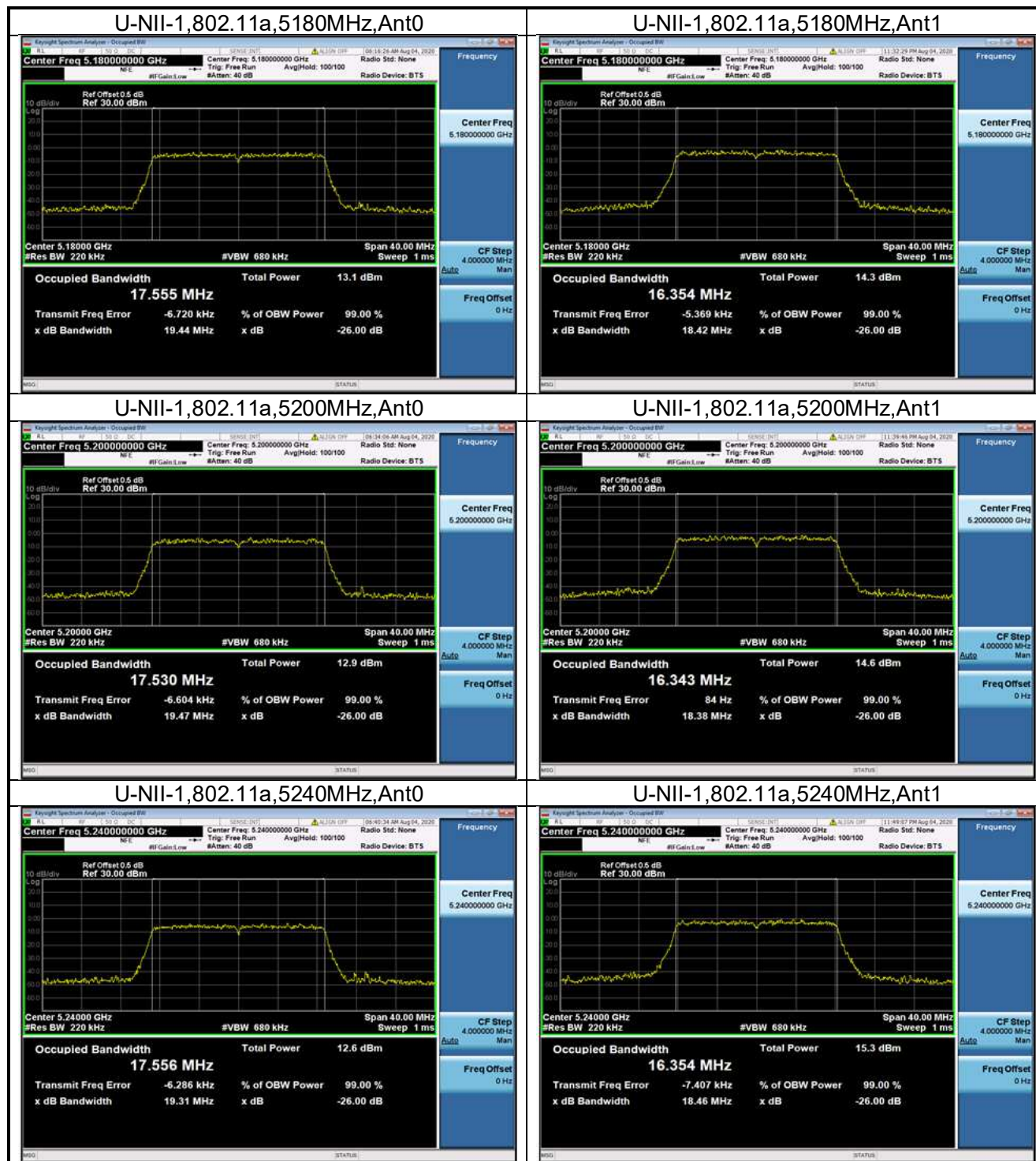
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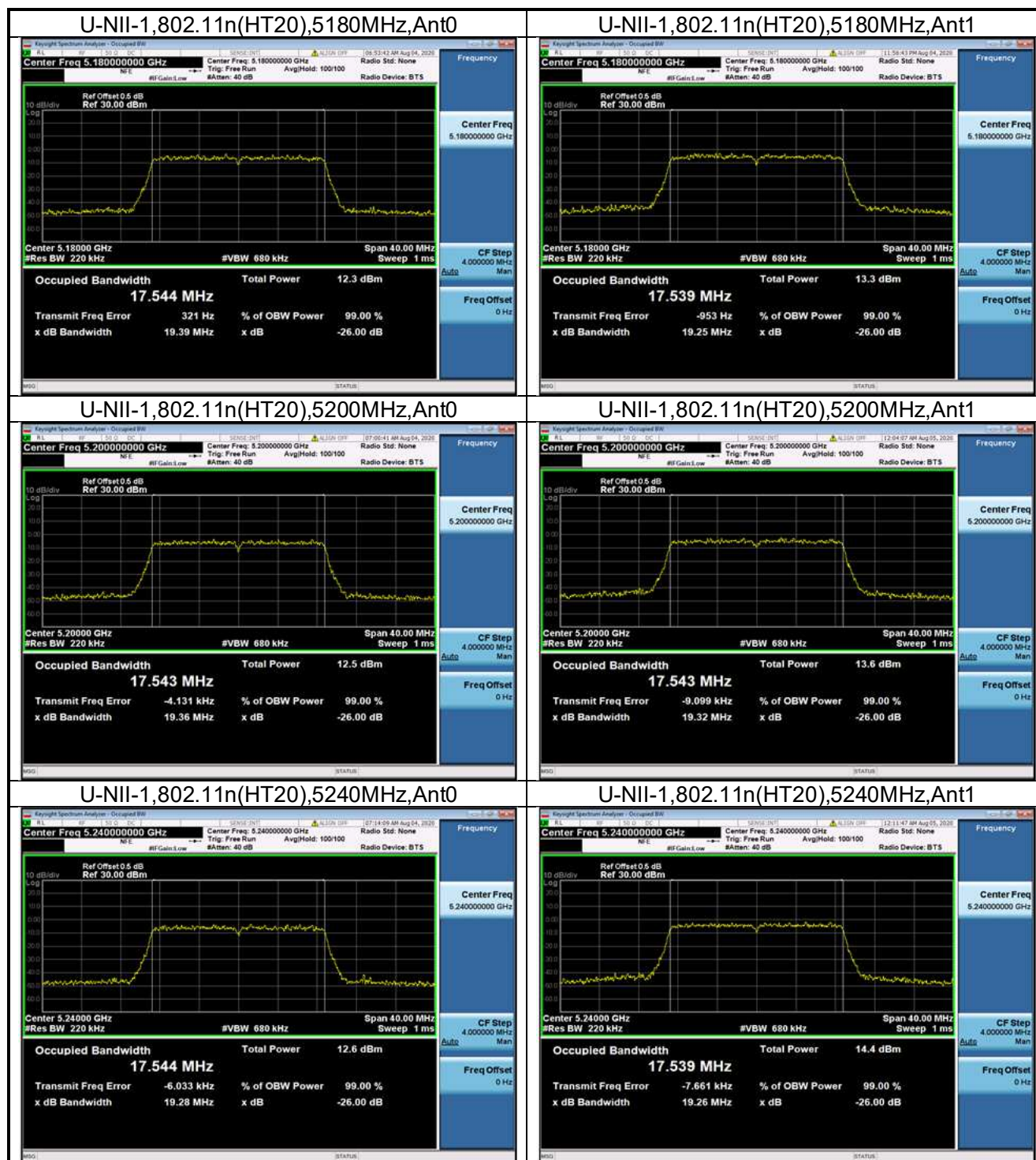
2. 99% Occupied Bandwidth

2.1 Test Data

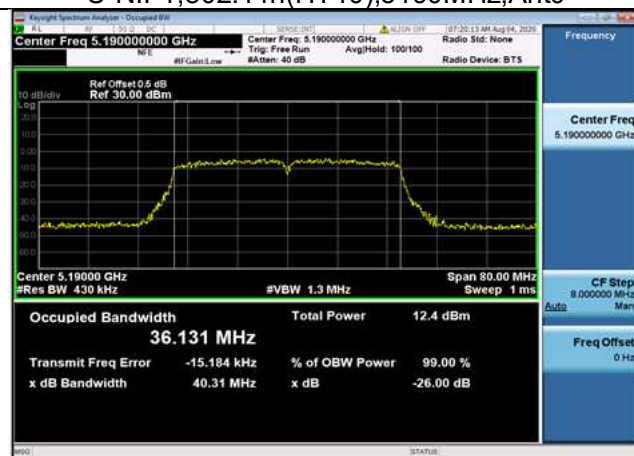
U-NII-1 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11a	5180	Ant0	17.555	Pass
802.11a	5180	Ant1	16.354	Pass
802.11a	5200	Ant0	17.530	Pass
802.11a	5200	Ant1	16.343	Pass
802.11a	5240	Ant0	17.556	Pass
802.11a	5240	Ant1	16.354	Pass
802.11n (HT20)	5180	Ant0	17.544	Pass
802.11n (HT20)	5180	Ant1	17.539	Pass
802.11n (HT20)	5200	Ant0	17.543	Pass
802.11n (HT20)	5200	Ant1	17.543	Pass
802.11n (HT20)	5240	Ant0	17.544	Pass
802.11n (HT20)	5240	Ant1	17.539	Pass
802.11n (HT40)	5190	Ant0	36.131	Pass
802.11n (HT40)	5190	Ant1	36.110	Pass
802.11n (HT40)	5230	Ant0	36.028	Pass
802.11n (HT40)	5230	Ant1	36.065	Pass
802.11ac (VHT80)	5210	Ant0	74.779	Pass
802.11ac (VHT80)	5210	Ant1	74.614	Pass

2.2 Test Plots





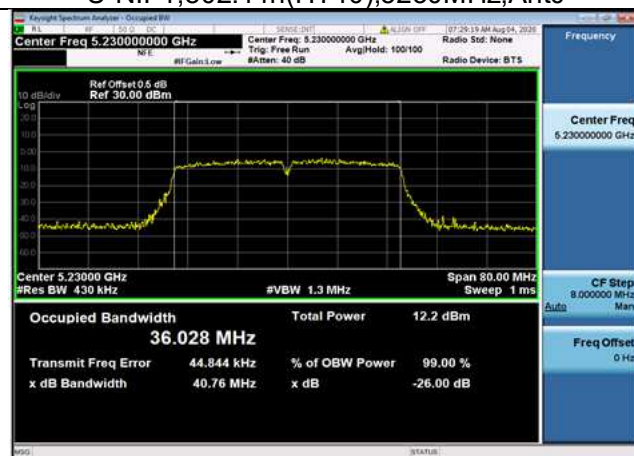
U-NII-1,802.11n(HT40),5190MHz,Ant0



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



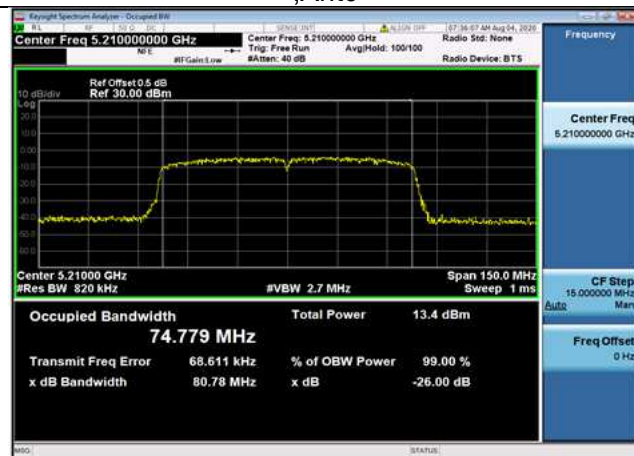
U-NII-1,802.11n(HT40),5230MHz,Ant0



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



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



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



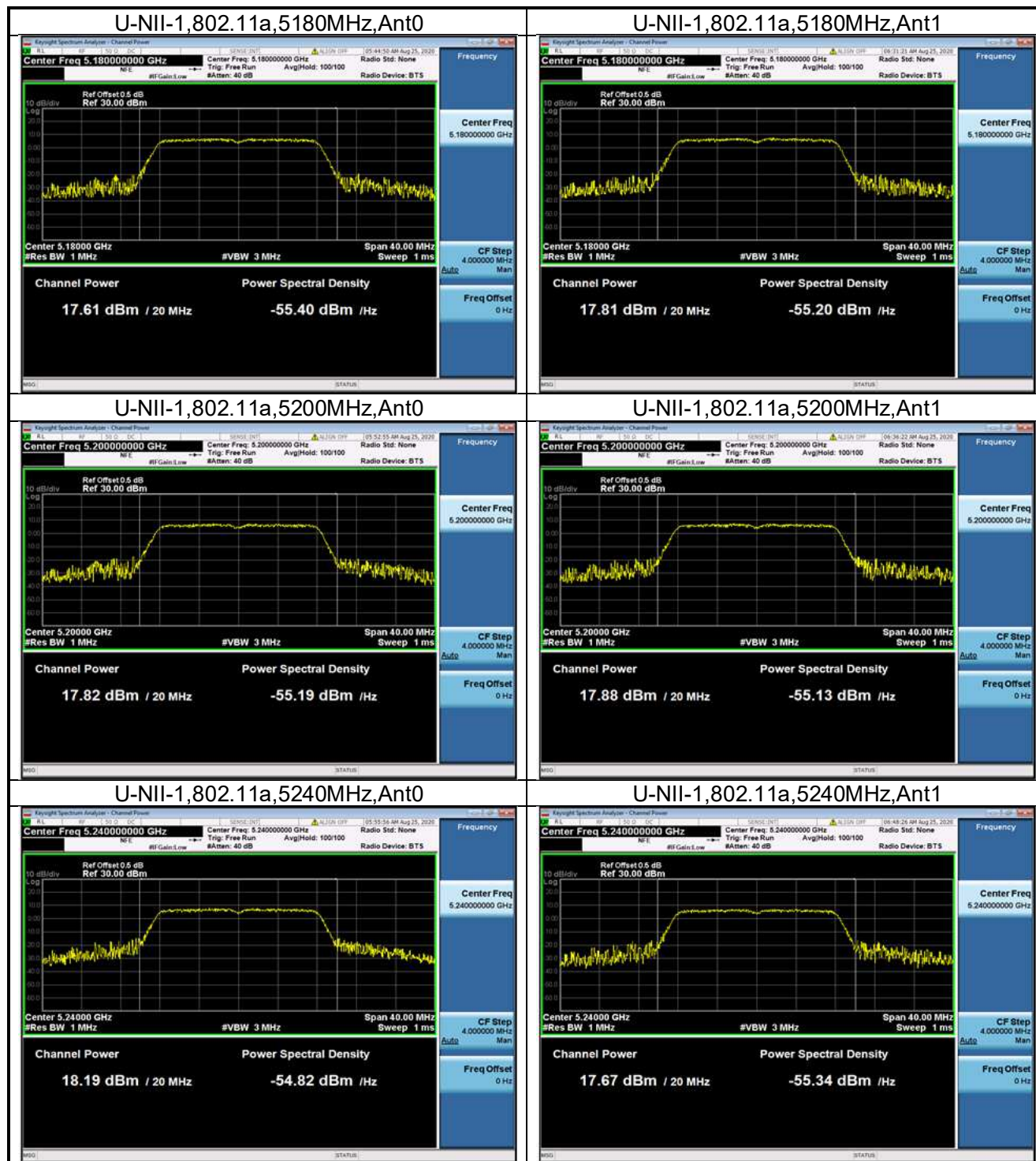
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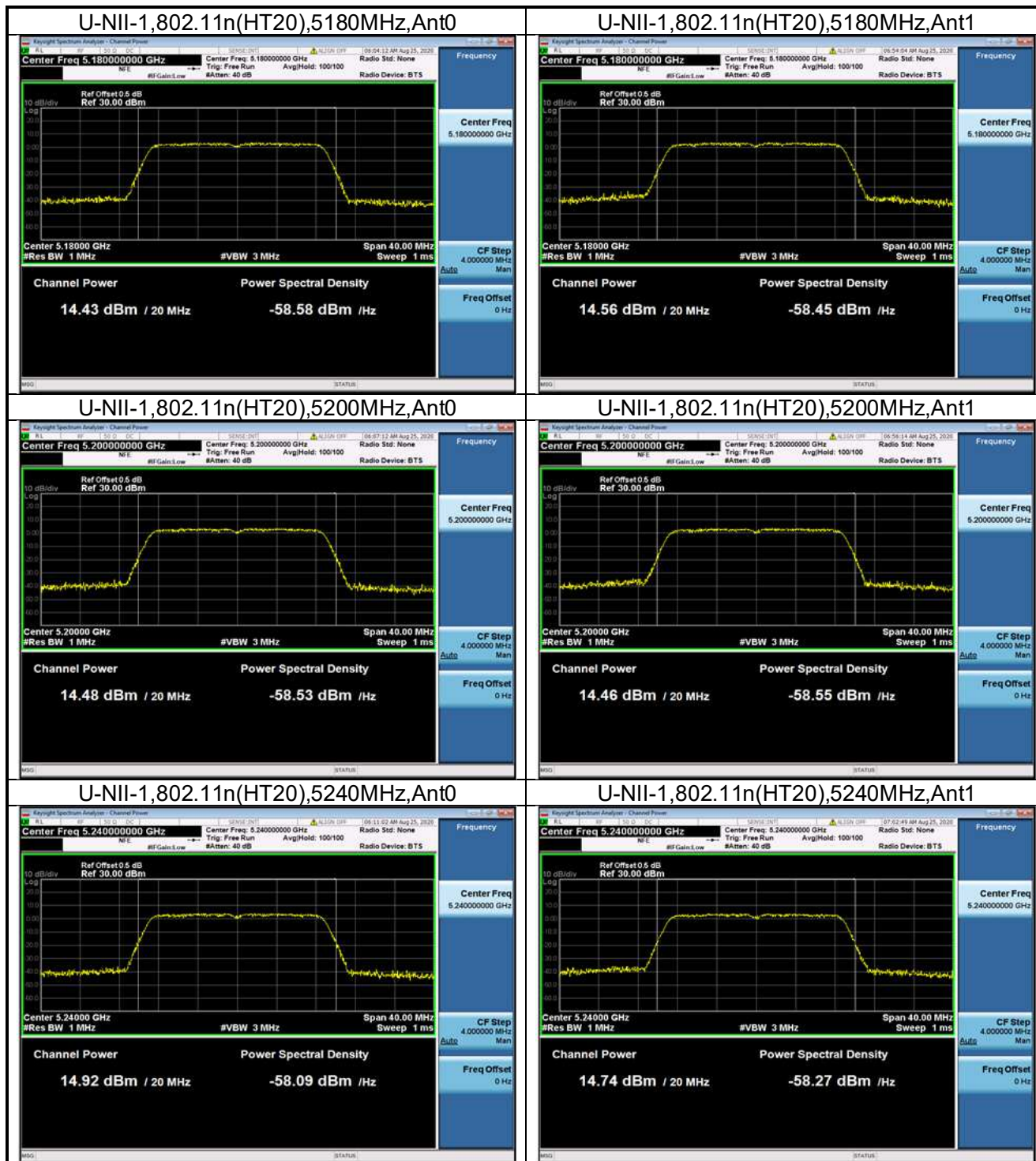
3. AVGSA Output Power

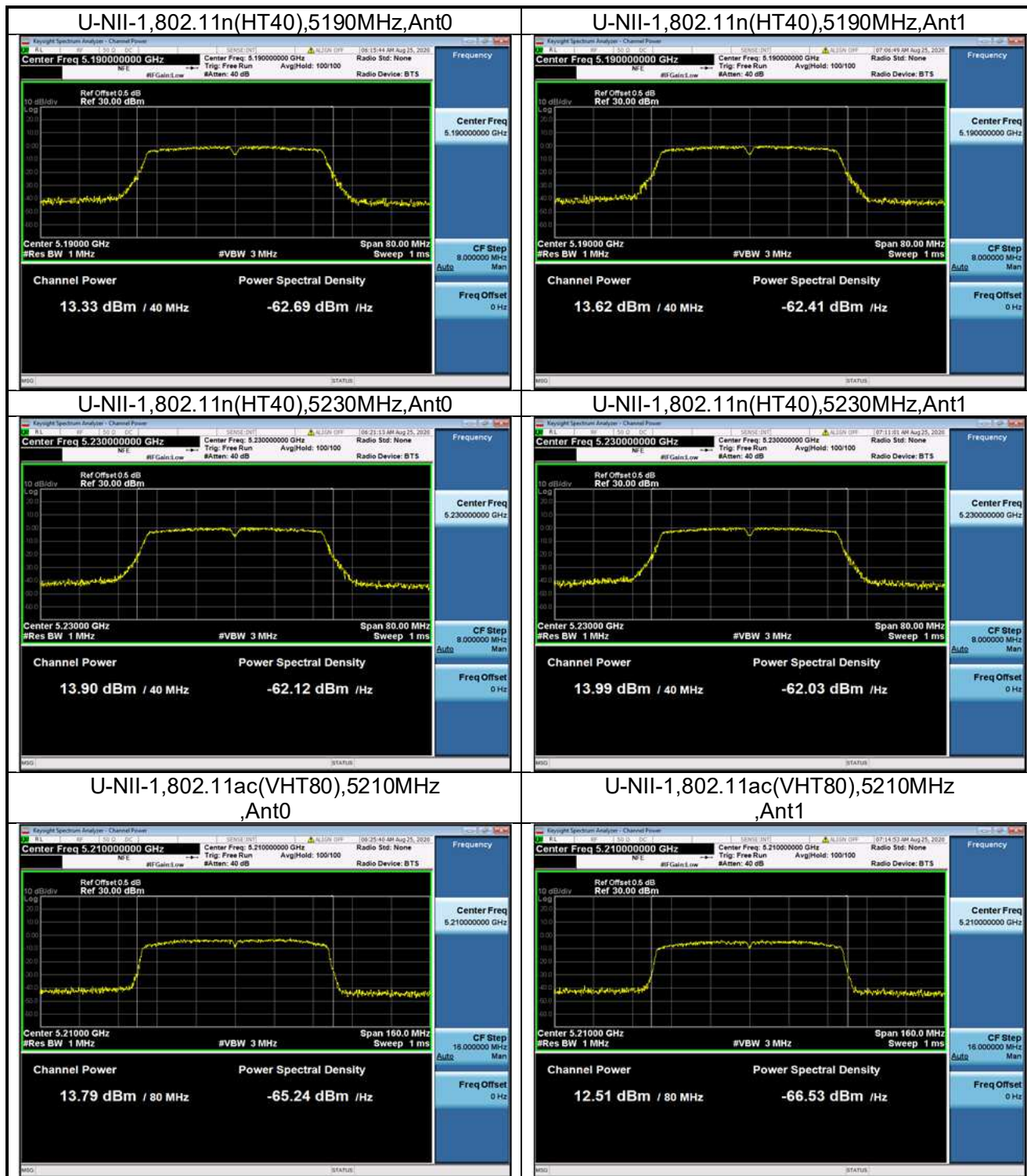
3.1 Test Data

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)	IC EIRP Limit (dBm)	Result
802.11a	5180	Ant0	0.00	17.61	17.61	24	21.29	22	Pass
802.11a	5180	Ant1	0.00	17.81	17.81	24	21.18	22	Pass
802.11a	5200	Ant0	0.00	17.82	17.82	24	21.50	22	Pass
802.11a	5200	Ant1	0.00	17.88	17.88	24	21.25	22	Pass
802.11a	5240	Ant0	0.00	18.19	18.19	24	21.87	22	Pass
802.11a	5240	Ant1	0.00	17.67	17.67	24	21.04	22	Pass
802.11n (HT20)	5180	Ant0	0.00	14.43	17.51	24	21.04	22	Pass
802.11n (HT20)	5180	Ant1	0.00	14.56					
802.11n (HT20)	5200	Ant0	0.00	14.48	17.48	24	21.01	22	Pass
802.11n (HT20)	5200	Ant1	0.00	14.46					
802.11n (HT20)	5240	Ant0	0.00	14.92	17.84	24	21.37	22	Pass
802.11n (HT20)	5240	Ant1	0.00	14.74					
802.11n (HT40)	5190	Ant0	0.00	13.33	16.49	24	20.02	23	Pass
802.11n (HT40)	5190	Ant1	0.00	13.62					
802.11n (HT40)	5230	Ant0	0.00	13.90	16.96	24	20.49	23	Pass
802.11n (HT40)	5230	Ant1	0.00	13.99					
802.11ac (VHT80)	5210	Ant0	0.00	13.79	16.21	24	19.74	23	Pass
802.11ac (VHT80)	5210	Ant1	0.00	12.51					

3.2 Test Plots







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4. AVGSA Power Spectral Density

4.1 Test Data

U-NII-1 AVGSA Power Spectral Density									
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	PSD (dBm)	Total PSD (dBm)	FCC PSD Limit (dBm)	EIRP PSD (dBm)	Limit (dBm)	Result
802.11a	5180	Ant0	0.00	1.948	1.948	11	5.628	10	Pass
802.11a	5180	Ant1	0.00	2.342	2.342	11	5.712	10	Pass
802.11a	5200	Ant0	0.00	2.304	2.304	11	5.984	10	Pass
802.11a	5200	Ant1	0.00	2.617	2.617	11	5.987	10	Pass
802.11a	5240	Ant0	0.00	2.852	2.852	11	6.532	10	Pass
802.11a	5240	Ant1	0.00	2.578	2.578	11	5.948	10	Pass
802.11n (HT20)	5180	Ant0	0.00	-1.871	1.28	11	4.81	10	Pass
802.11n (HT20)	5180	Ant1	0.00	-1.593					
802.11n (HT20)	5200	Ant0	0.00	-1.582	1.50	11	5.03	10	Pass
802.11n (HT20)	5200	Ant1	0.00	-1.437					
802.11n (HT20)	5240	Ant0	0.00	-1.131	1.89	11	5.42	10	Pass
802.11n (HT20)	5240	Ant1	0.00	-1.107					
802.11n (HT40)	5190	Ant0	0.00	-5.561	-2.33	11	1.20	10	Pass
802.11n (HT40)	5190	Ant1	0.00	-5.135					
802.11n (HT40)	5230	Ant0	0.00	-4.411	-1.44	11	2.09	10	Pass
802.11n (HT40)	5230	Ant1	0.00	-4.487					
802.11ac (VHT80)	5210	Ant0	0.00	-7.636	-5.23	11	-1.70	10	Pass
802.11ac (VHT80)	5210	Ant1	0.00	-8.934					

4.2 Test Plots

