

TEST REPORT

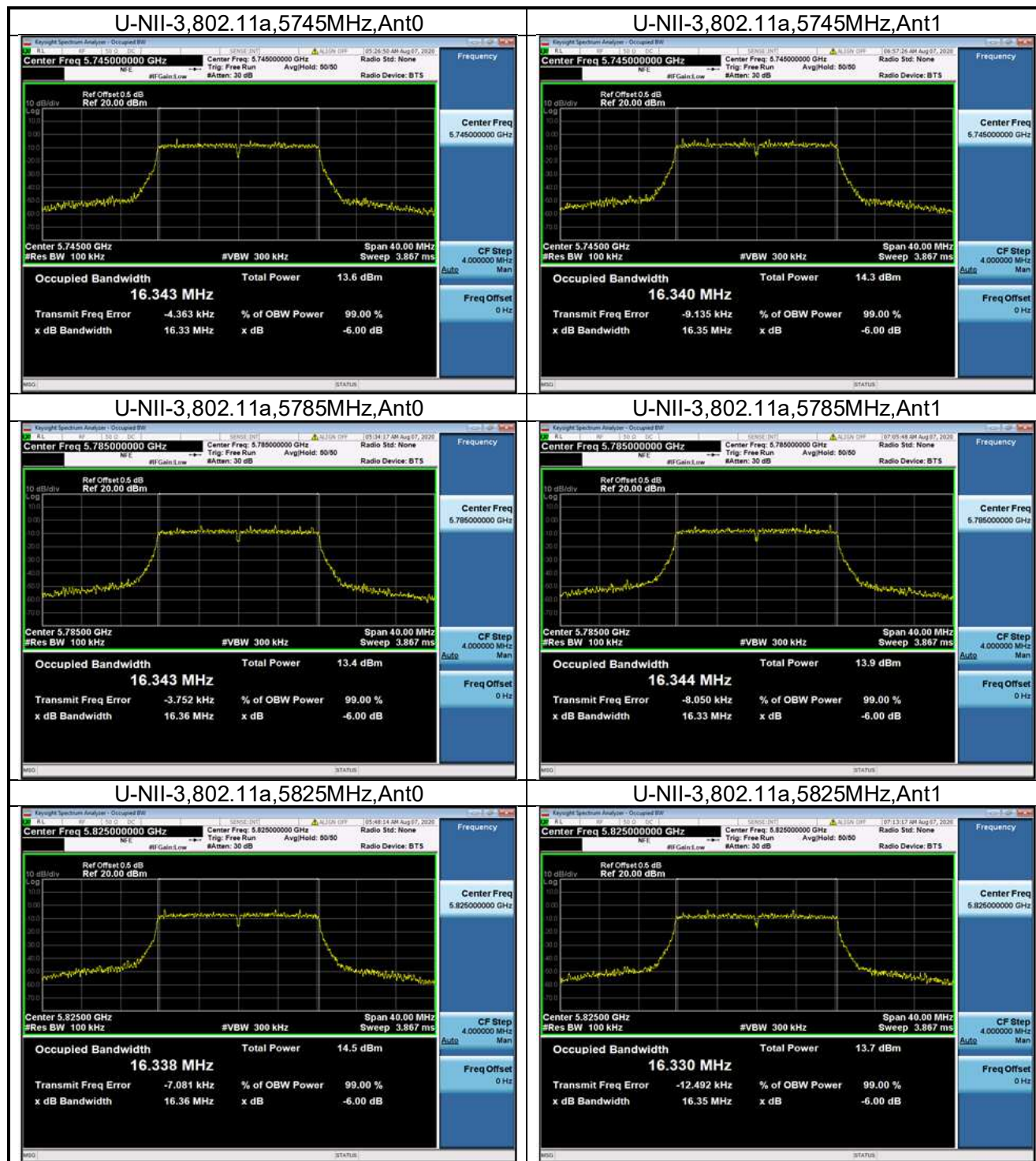
Appendix D: Test results

1. Occupied N dB Bandwidth

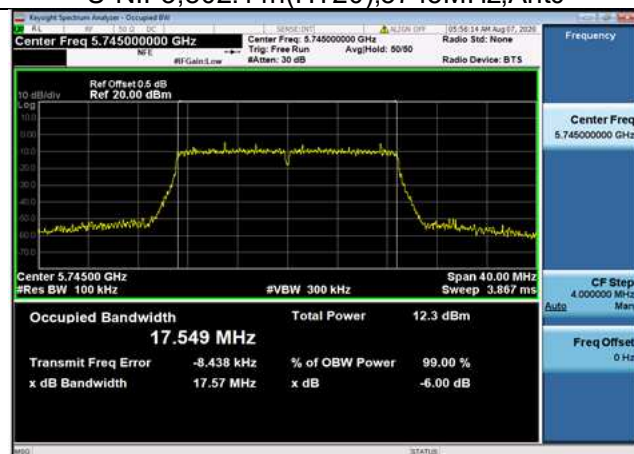
1.1 Test Data

U-NII-3 Occupied N dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11a	5745	Ant0	16.33	Pass
802.11a	5745	Ant1	16.35	Pass
802.11a	5785	Ant0	16.36	Pass
802.11a	5785	Ant1	16.33	Pass
802.11a	5825	Ant0	16.36	Pass
802.11a	5825	Ant1	16.35	Pass
802.11n (HT20)	5745	Ant0	17.57	Pass
802.11n (HT20)	5745	Ant1	17.61	Pass
802.11n (HT20)	5785	Ant0	17.61	Pass
802.11n (HT20)	5785	Ant1	17.59	Pass
802.11n (HT20)	5825	Ant0	17.57	Pass
802.11n (HT20)	5825	Ant1	17.60	Pass
802.11n (HT40)	5755	Ant0	33.97	Pass
802.11n (HT40)	5755	Ant1	35.43	Pass
802.11n (HT40)	5795	Ant0	33.92	Pass
802.11n (HT40)	5795	Ant1	33.94	Pass
802.11ac (VHT80)	5775	Ant0	73.99	Pass
802.11ac (VHT80)	5775	Ant1	72.70	Pass

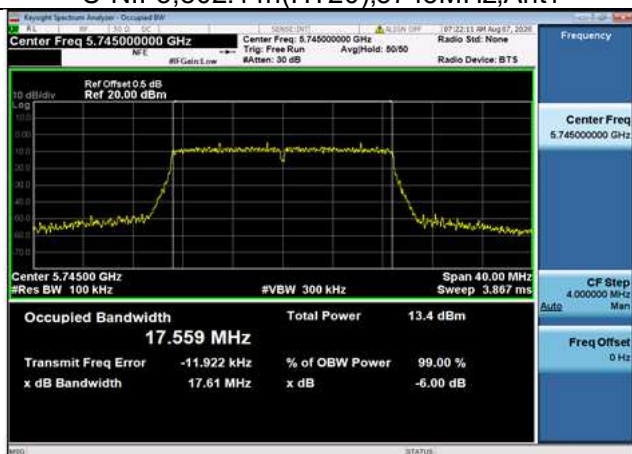
1.2 Test Plots



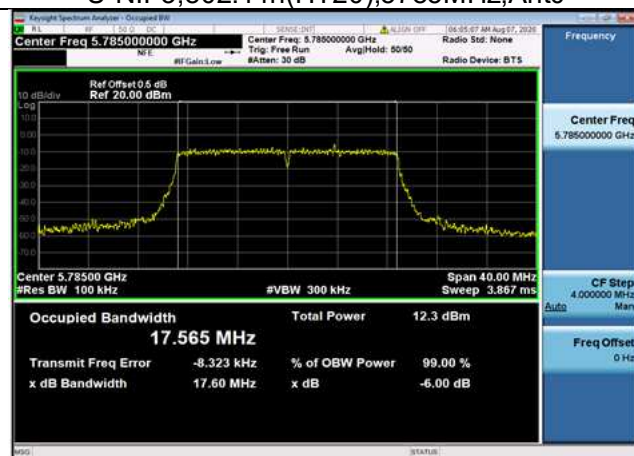
U-NII-3,802.11n(HT20),5745MHz,Ant0



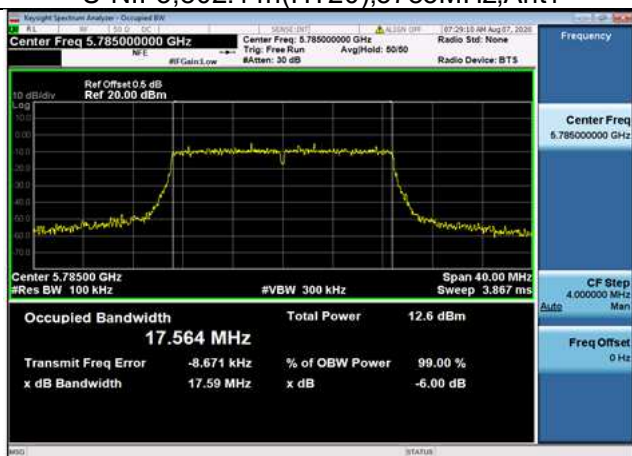
U-NII-3,802.11n(HT20),5745MHz,Ant1



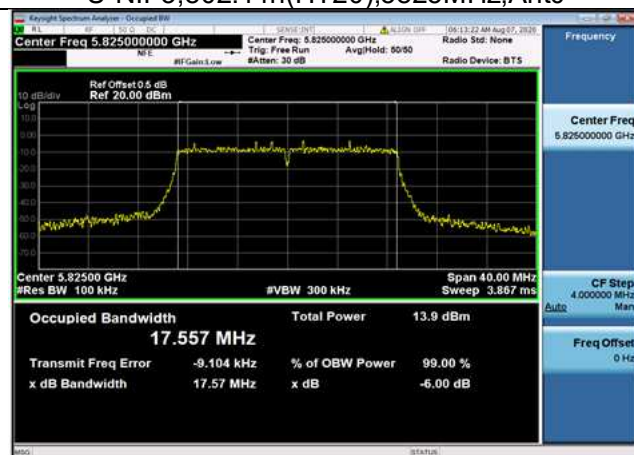
U-NII-3,802.11n(HT20),5785MHz,Ant0



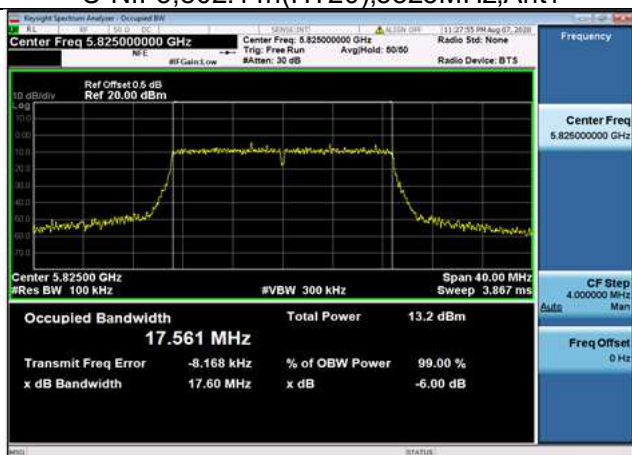
U-NII-3,802.11n(HT20),5785MHz,Ant1



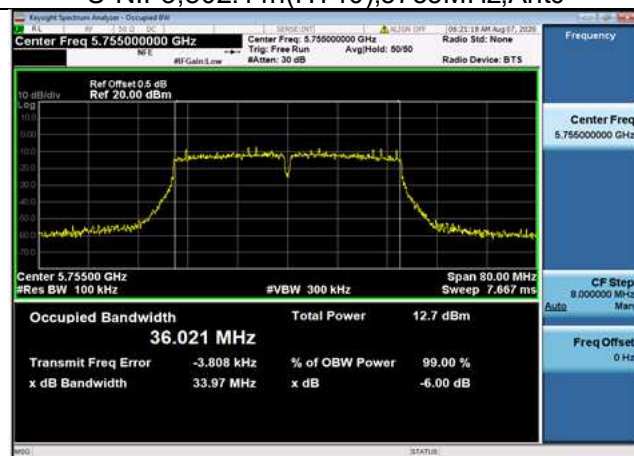
U-NII-3,802.11n(HT20),5825MHz,Ant0



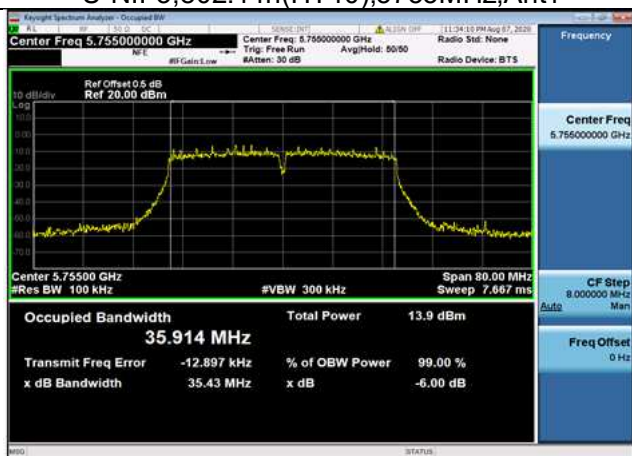
U-NII-3,802.11n(HT20),5825MHz,Ant1



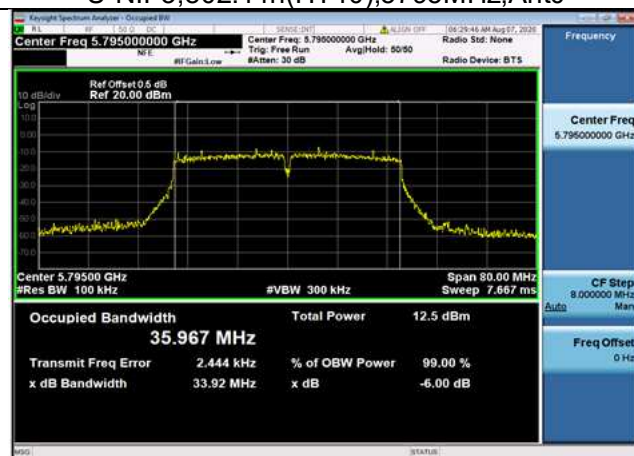
U-NII-3,802.11n(HT40),5755MHz,Ant0



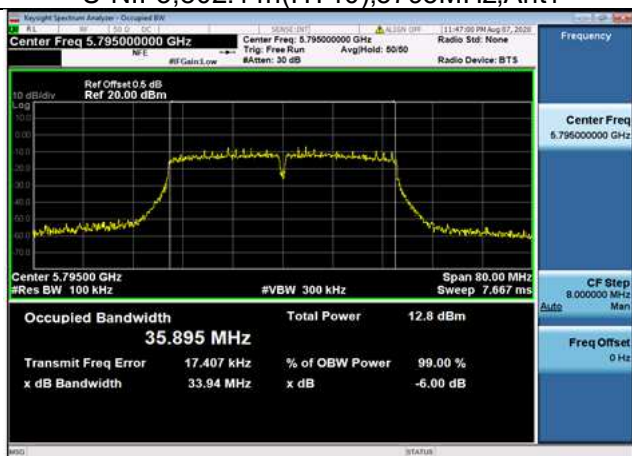
U-NII-3,802.11n(HT40),5755MHz,Ant1



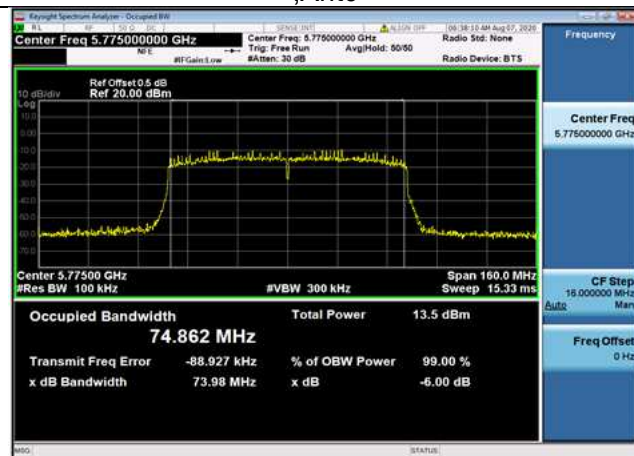
U-NII-3,802.11n(HT40),5795MHz,Ant0



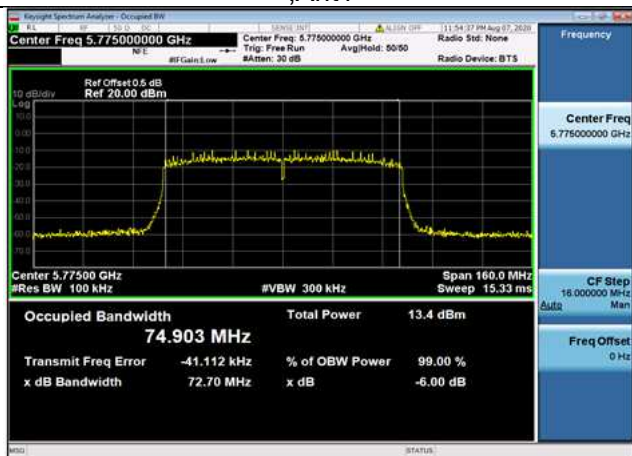
U-NII-3,802.11n(HT40),5795MHz,Ant1



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



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



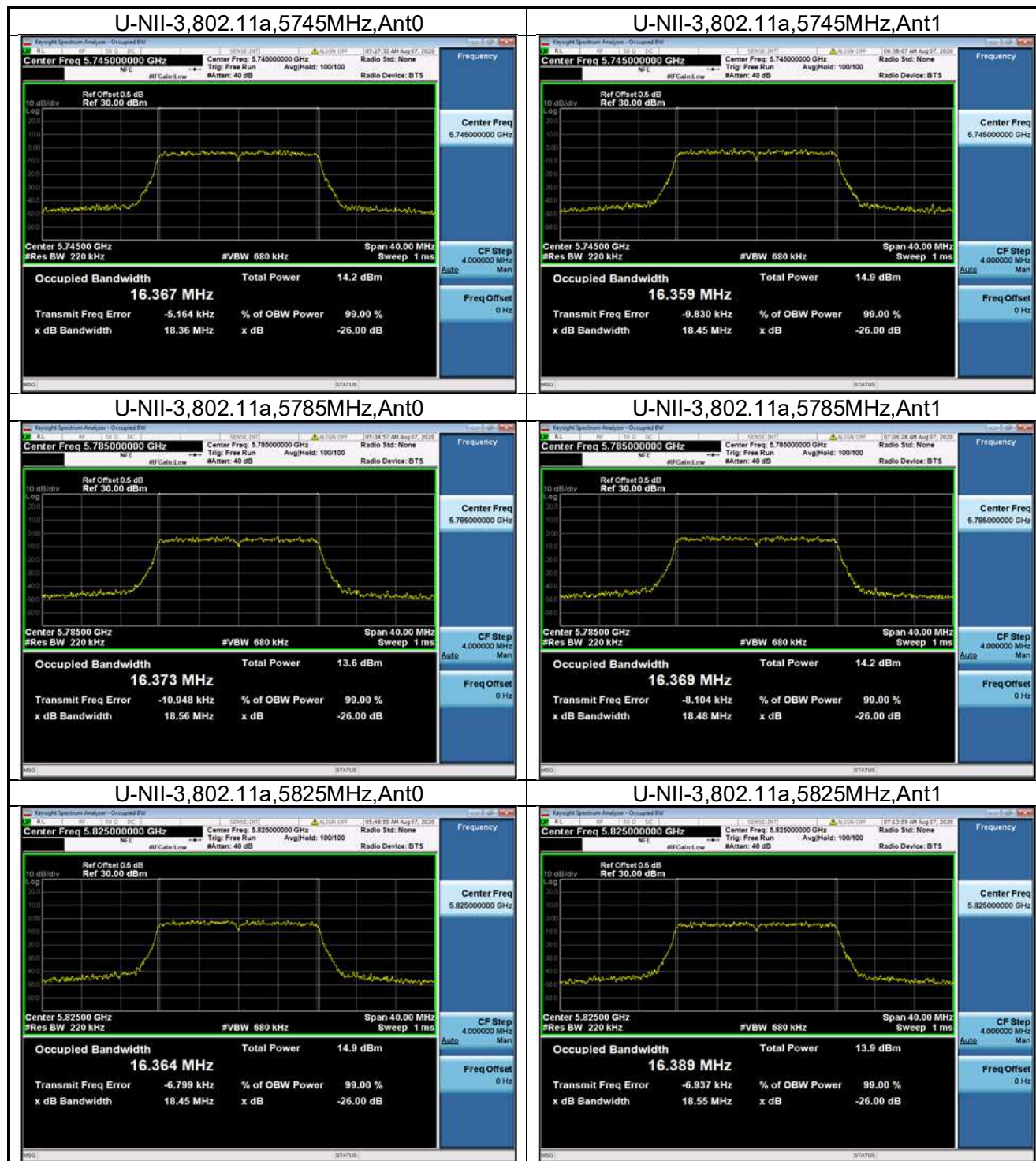
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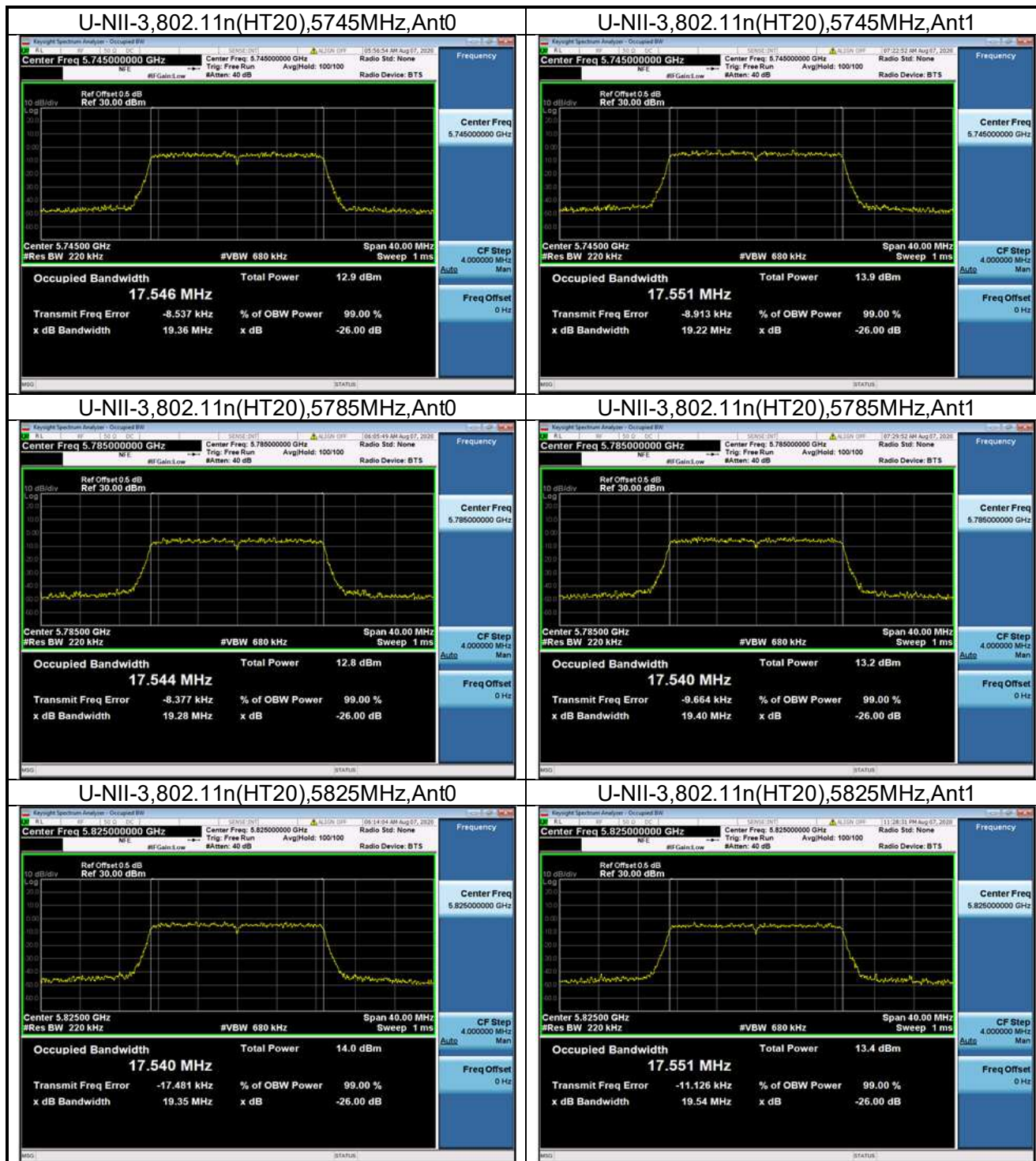
2. 99% Occupied Bandwidth

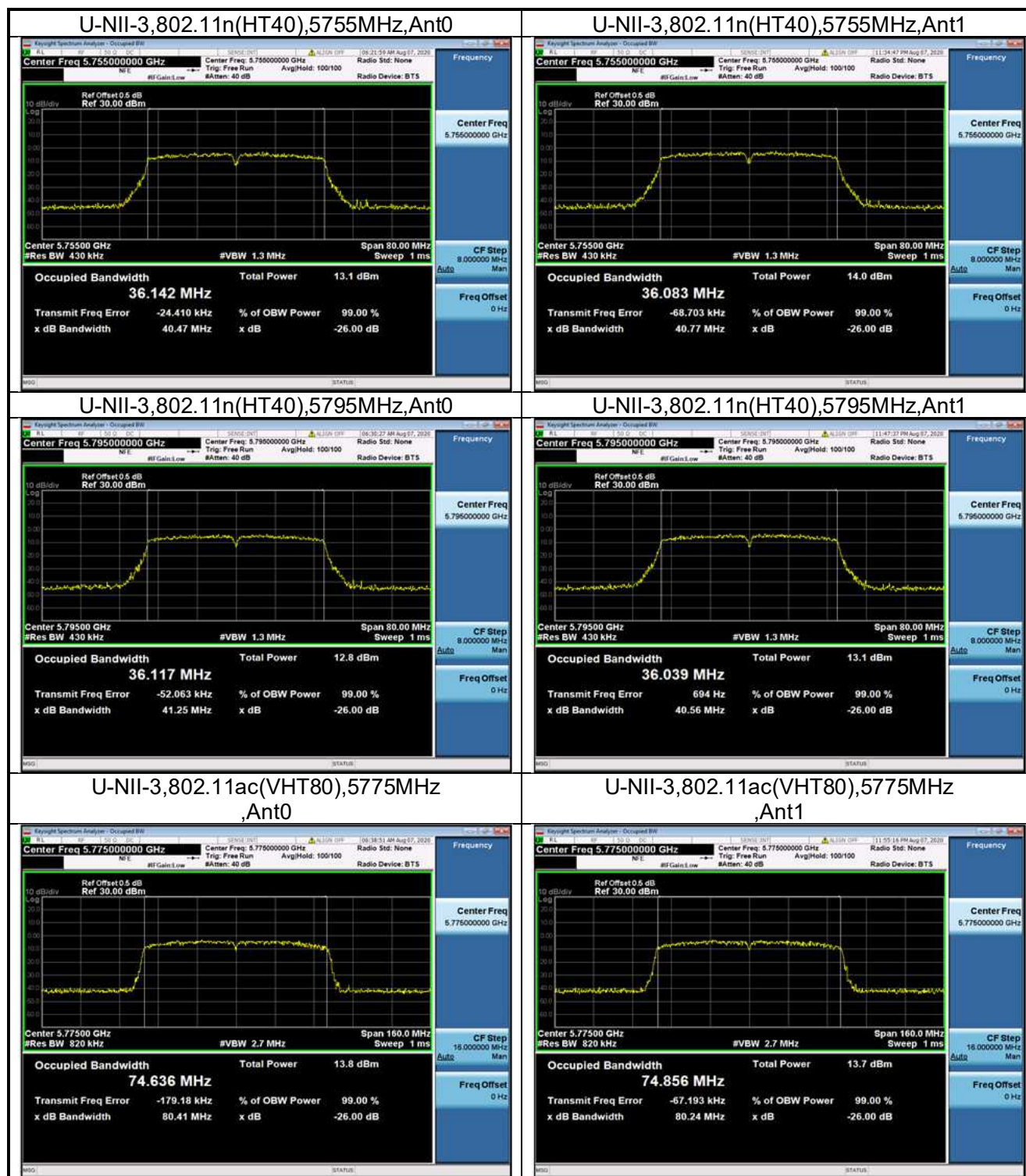
2.1 Test Data

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	16.359	Pass
802.11a	5785	Ant0	16.373	Pass
802.11a	5785	Ant1	16.369	Pass
802.11a	5825	Ant0	16.364	Pass
802.11a	5825	Ant1	16.389	Pass
802.11n (HT20)	5745	Ant0	17.546	Pass
802.11n (HT20)	5745	Ant1	17.551	Pass
802.11n (HT20)	5785	Ant0	17.544	Pass
802.11n (HT20)	5785	Ant1	17.540	Pass
802.11n (HT20)	5825	Ant0	17.540	Pass
802.11n (HT20)	5825	Ant1	17.551	Pass
802.11n (HT40)	5755	Ant0	36.142	Pass
802.11n (HT40)	5755	Ant1	36.083	Pass
802.11n (HT40)	5795	Ant0	36.117	Pass
802.11n (HT40)	5795	Ant1	36.039	Pass
802.11ac (VHT80)	5775	Ant0	74.636	Pass
802.11ac (VHT80)	5775	Ant1	74.856	Pass

2.2 Test Plots







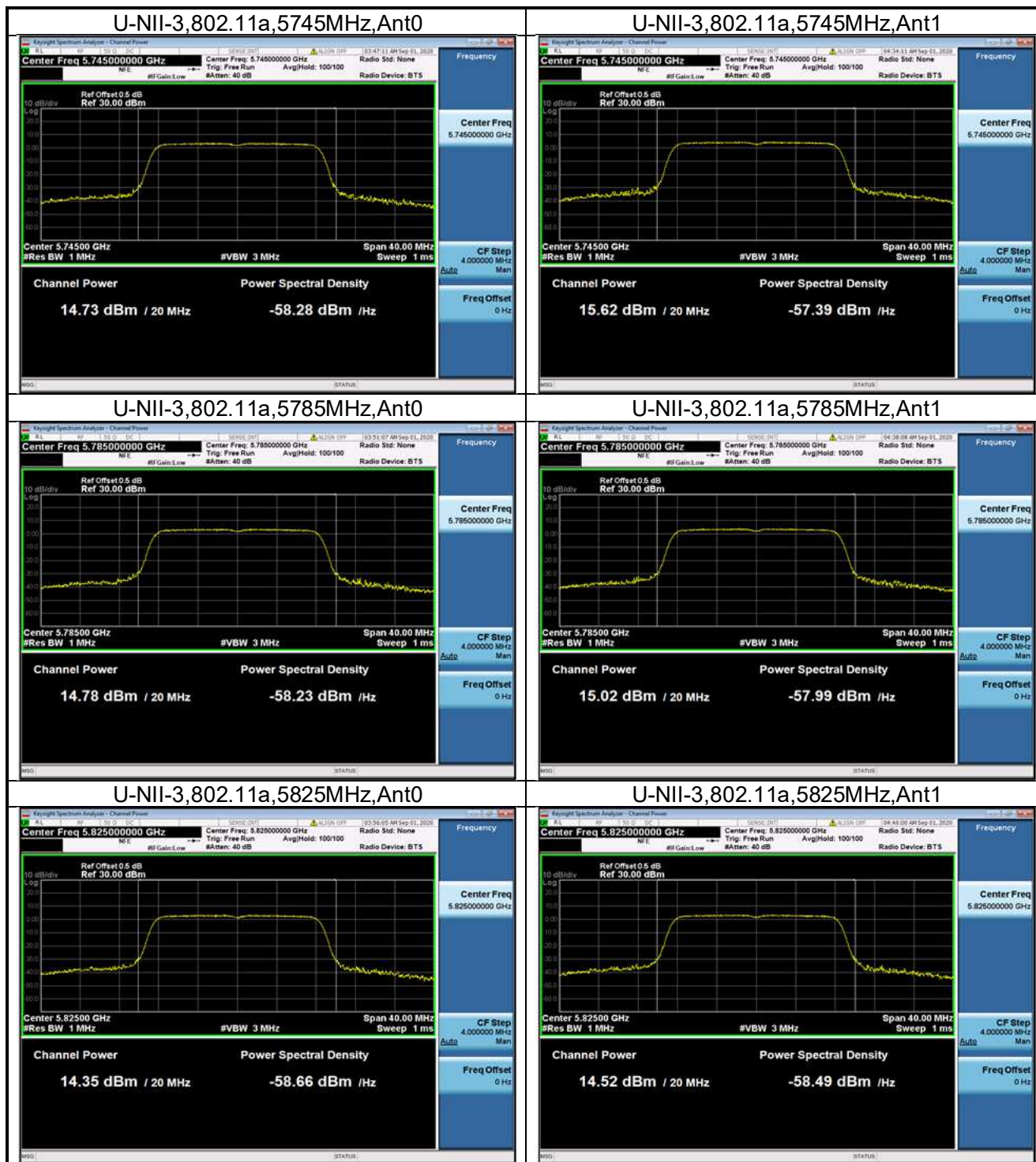
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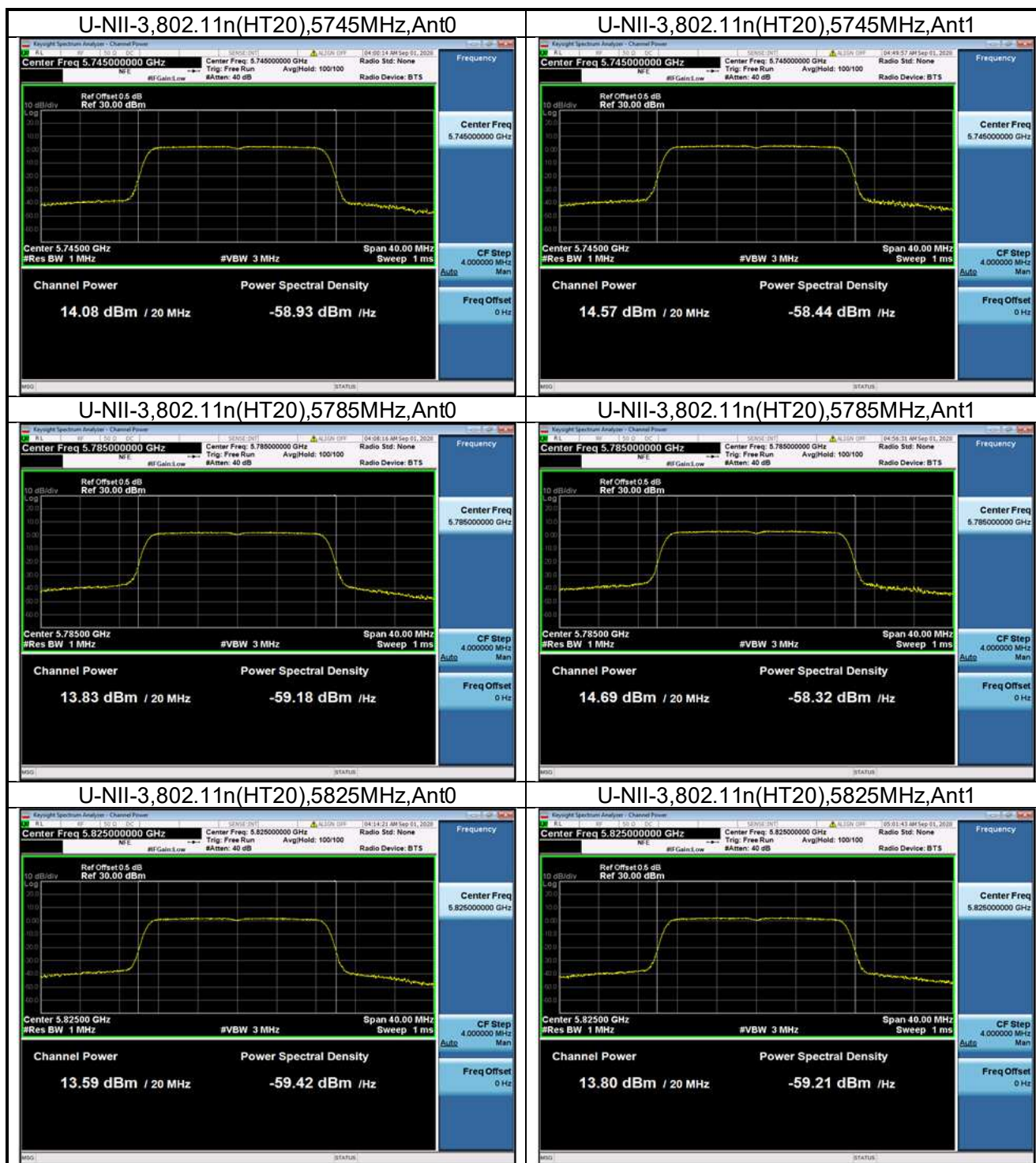
3. AVGSA Output Power

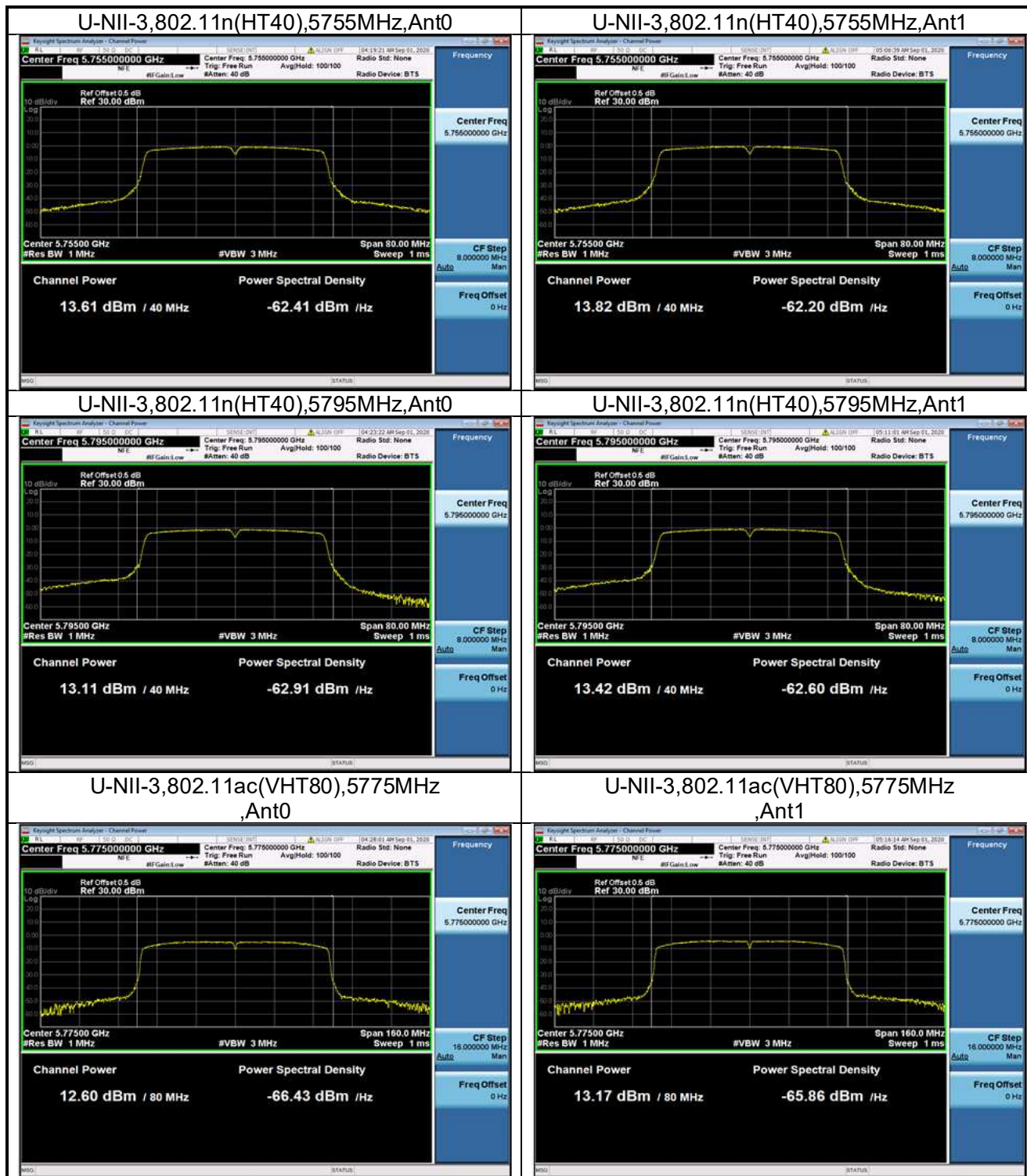
3.1 Test Data

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	14.73	14.73	30	18.41	Pass
802.11a	5745	Ant1	0.00	15.62	15.62	30	18.99	Pass
802.11a	5785	Ant0	0.00	14.78	14.78	30	18.46	Pass
802.11a	5785	Ant1	0.00	15.02	15.02	30	18.39	Pass
802.11a	5825	Ant0	0.00	14.35	14.35	30	18.03	Pass
802.11a	5825	Ant1	0.00	14.52	14.52	30	17.89	Pass
802.11n (HT20)	5745	Ant0	0.00	14.08	17.34	30	20.87	Pass
802.11n (HT20)	5745	Ant1	0.00	14.57				
802.11n (HT20)	5785	Ant0	0.00	13.83	17.29	30	20.82	Pass
802.11n (HT20)	5785	Ant1	0.00	14.69				
802.11n (HT20)	5825	Ant0	0.00	13.59	16.71	30	20.24	Pass
802.11n (HT20)	5825	Ant1	0.00	13.80				
802.11n (HT40)	5755	Ant0	0.00	13.61	16.73	30	20.26	Pass
802.11n (HT40)	5755	Ant1	0.00	13.82				
802.11n (HT40)	5795	Ant0	0.00	13.11	16.28	30	19.81	Pass
802.11n (HT40)	5795	Ant1	0.00	13.42				
802.11ac (VHT80)	5775	Ant0	0.00	12.60	15.90	30	19.43	Pass
802.11ac (VHT80)	5775	Ant1	0.00	13.17				

3.2 Test Plots







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4. AVGSA Power Spectral Density

4.1 Test Data

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	7.754	7.754	510	30	Pass
802.11a	5745	Ant1	0.00	8.490	8.490	510	30	Pass
802.11a	5785	Ant0	0.00	7.837	7.837	510	30	Pass
802.11a	5785	Ant1	0.00	7.683	7.683	510	30	Pass
802.11a	5825	Ant0	0.00	7.382	7.382	510	30	Pass
802.11a	5825	Ant1	0.00	7.760	7.760	510	30	Pass
802.11n (HT20)	5745	Ant0	0.00	6.600	9.822	510	30	Pass
802.11n (HT20)	5745	Ant1	0.00	7.014				
802.11n (HT20)	5785	Ant0	0.00	6.278	9.699	510	30	Pass
802.11n (HT20)	5785	Ant1	0.00	7.064				
802.11n (HT20)	5825	Ant0	0.00	6.246	9.462	510	30	Pass
802.11n (HT20)	5825	Ant1	0.00	6.648				
802.11n (HT40)	5755	Ant0	0.00	3.454	6.595	510	30	Pass
802.11n (HT40)	5755	Ant1	0.00	3.711				
802.11n (HT40)	5795	Ant0	0.00	2.538	5.967	510	30	Pass
802.11n (HT40)	5795	Ant1	0.00	3.338				
802.11ac (VHT80)	5775	Ant0	0.00	-0.460	2.897	510	30	Pass
802.11ac (VHT80)	5775	Ant1	0.00	0.207				

4.2 Test Plots

