

TEST REPORT

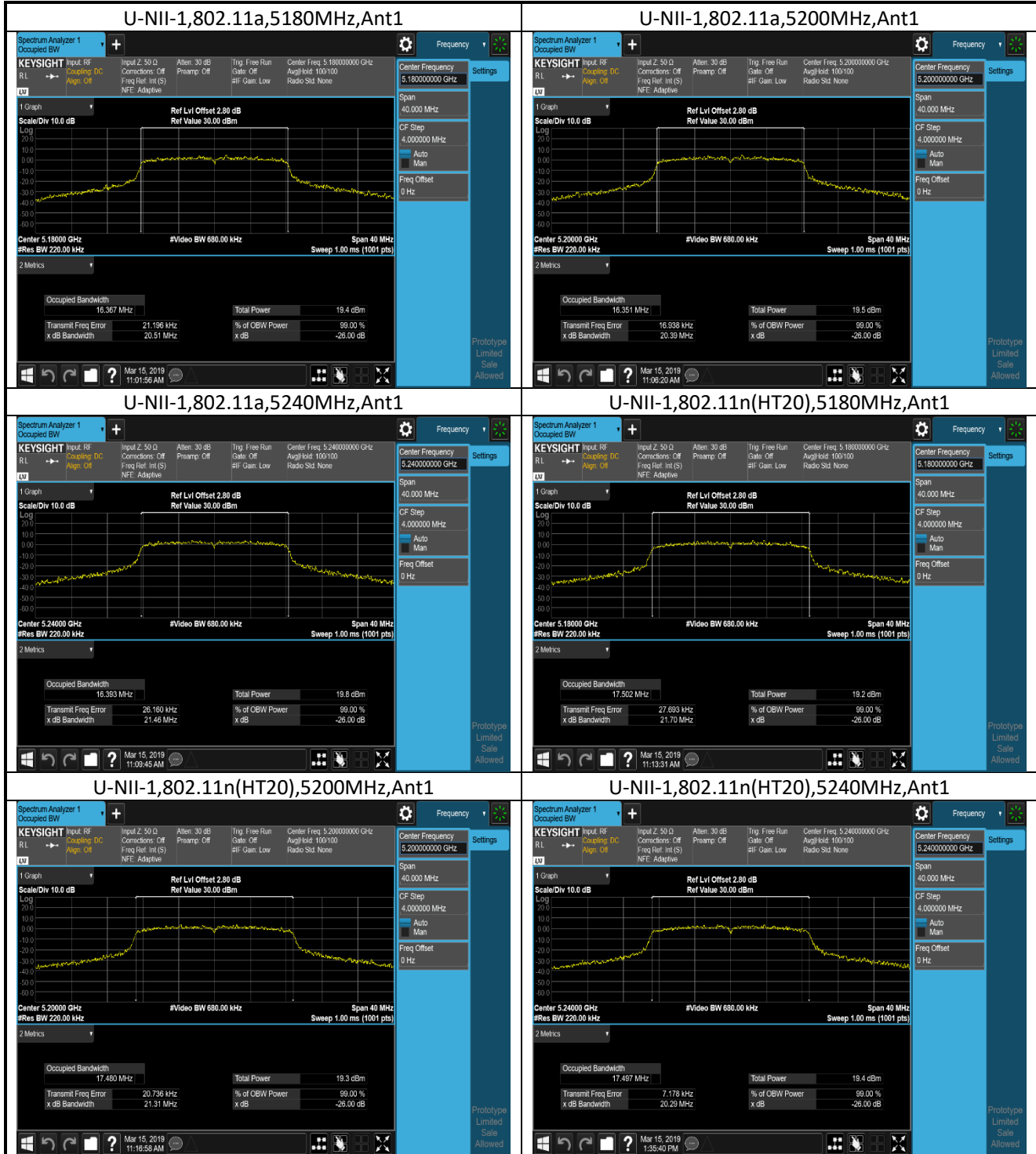
Appendix A: Test results of U-NII-1 Band

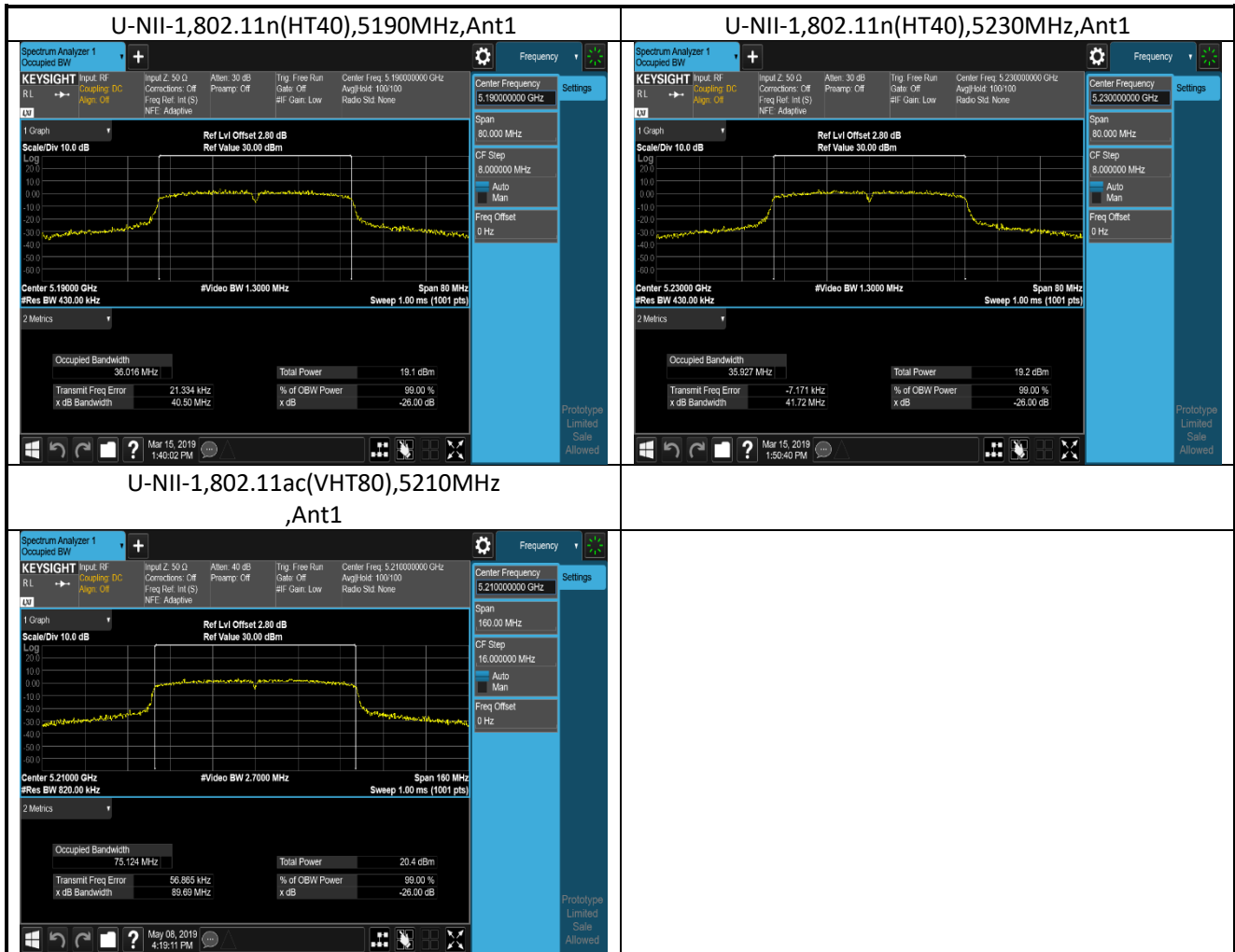
1. Occupied N dB Bandwidth

1.1 Test Data

U-NII-1 Occupied N dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11a	5180	Ant1	20.51	Pass
802.11a	5200	Ant1	20.40	Pass
802.11a	5240	Ant1	21.46	Pass
802.11n (HT20)	5180	Ant1	21.70	Pass
802.11n (HT20)	5200	Ant1	21.31	Pass
802.11n (HT20)	5240	Ant1	20.29	Pass
802.11n (HT40)	5190	Ant1	40.50	Pass
802.11n (HT40)	5230	Ant1	41.72	Pass
802.11ac (VHT80)	5210	Ant1	89.69	Pass

1.2 Test Plots





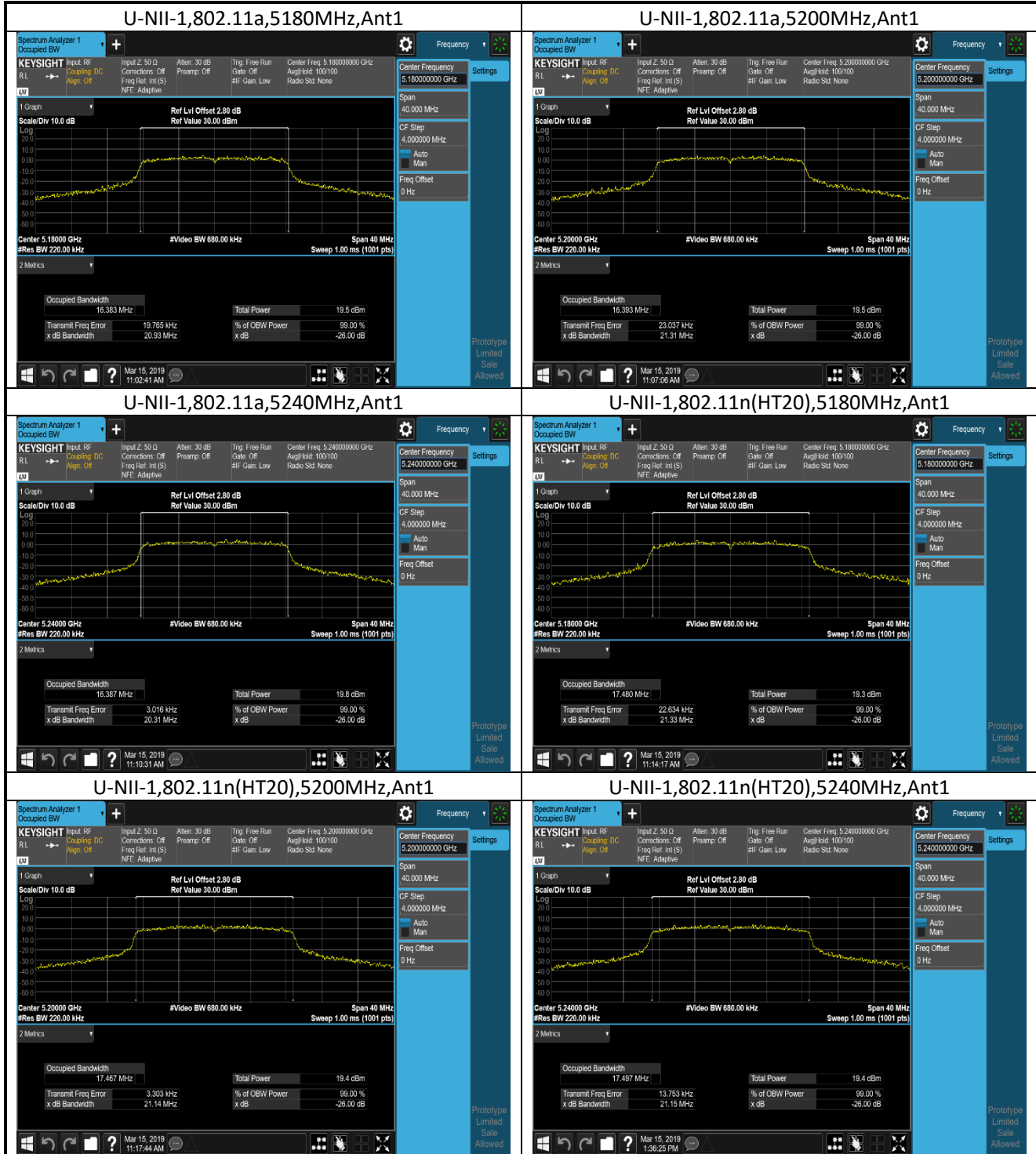
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2. 99% Occupied Bandwidth

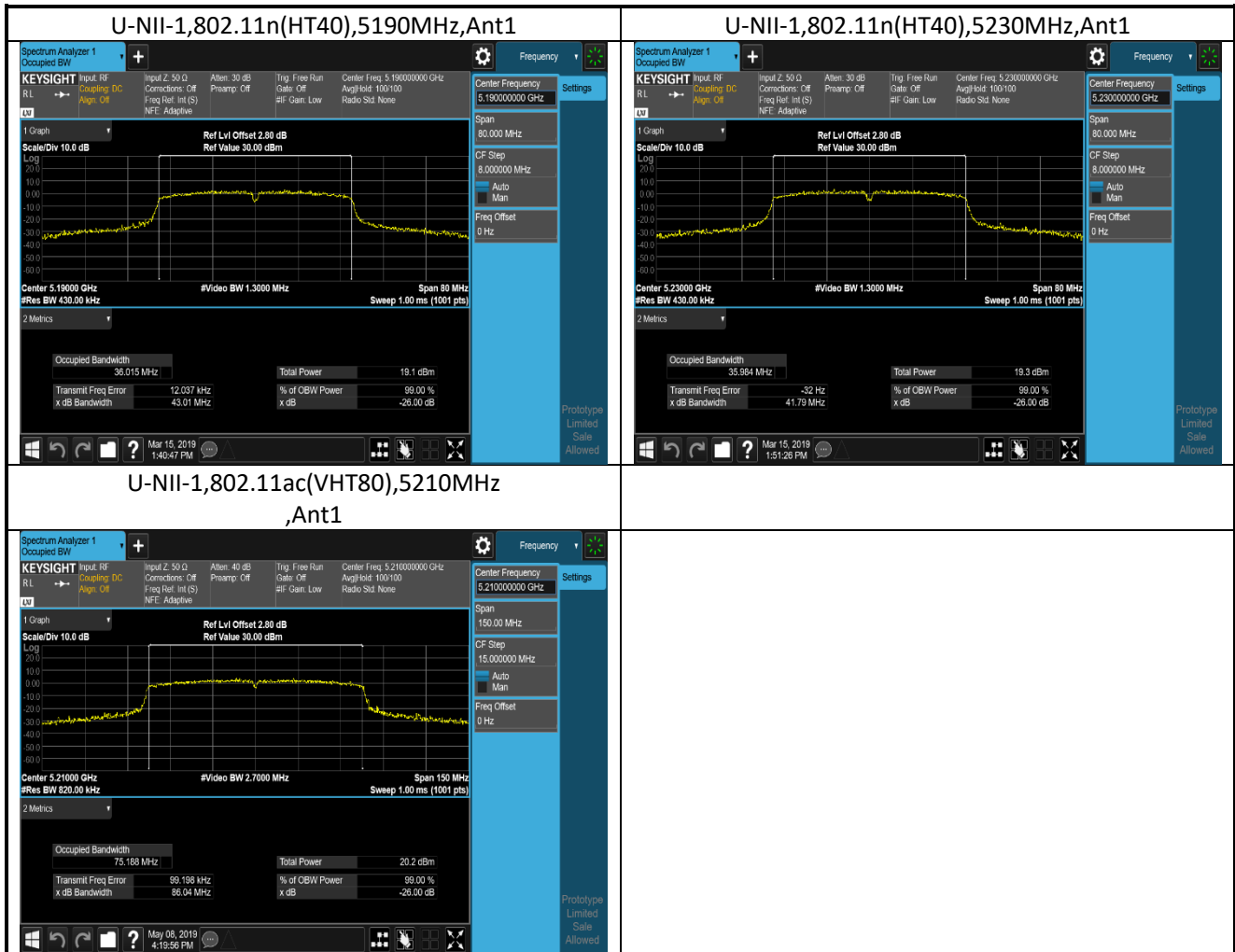
2.1 Test Data

U-NII-1 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11a	5180	Ant1	16.383	Pass
802.11a	5200	Ant1	16.393	Pass
802.11a	5240	Ant1	16.387	Pass
802.11n (HT20)	5180	Ant1	17.480	Pass
802.11n (HT20)	5200	Ant1	17.467	Pass
802.11n (HT20)	5240	Ant1	17.497	Pass
802.11n (HT40)	5190	Ant1	36.015	Pass
802.11n (HT40)	5230	Ant1	35.984	Pass
802.11ac (VHT80)	5210	Ant1	75.188	Pass

2.2 Test Plots



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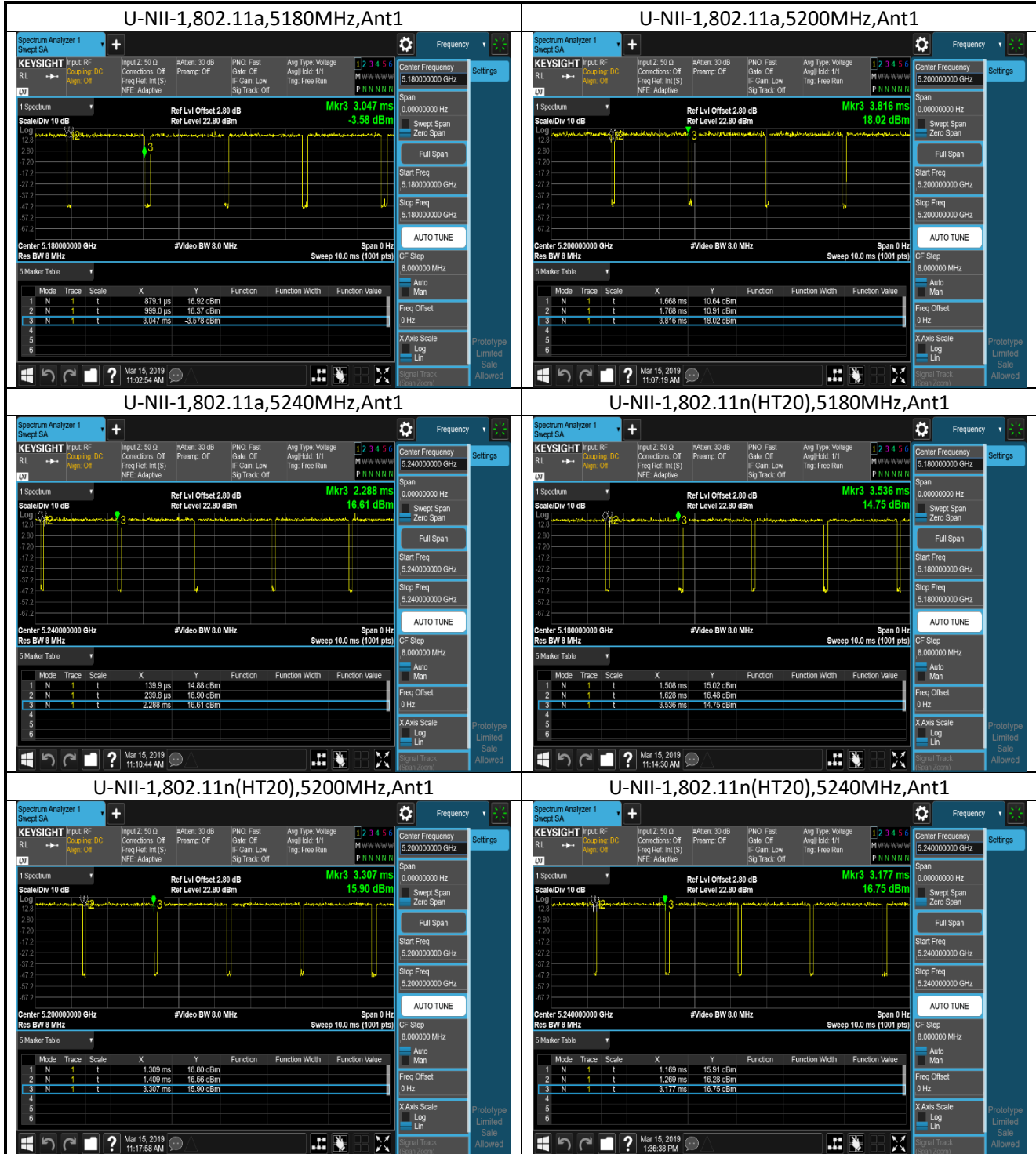
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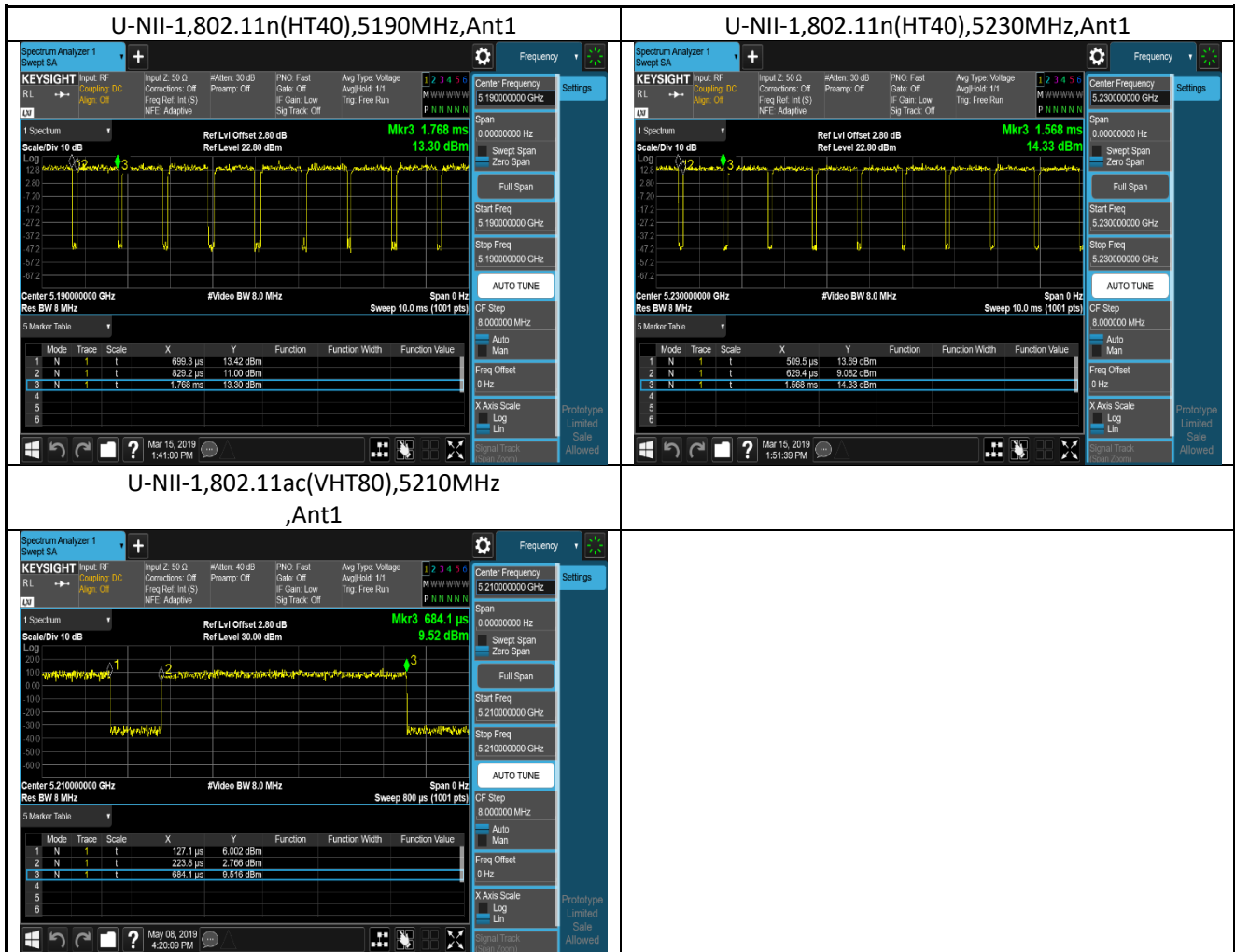
3. Duty Cycle

3.1 Test Data

U-NII-1 Duty Cycle				
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11a	5180	Ant1	94.47	0.25
802.11a	5200	Ant1	95.35	0.21
802.11a	5240	Ant1	95.35	0.21
802.11n (HT20)	5180	Ant1	94.09	0.26
802.11n (HT20)	5200	Ant1	95.00	0.22
802.11n (HT20)	5240	Ant1	95.02	0.22
802.11n (HT40)	5190	Ant1	87.85	0.56
802.11n (HT40)	5230	Ant1	88.68	0.52
802.11ac (VHT80)	5210	Ant1	82.64	0.83

3.2 Test Plots





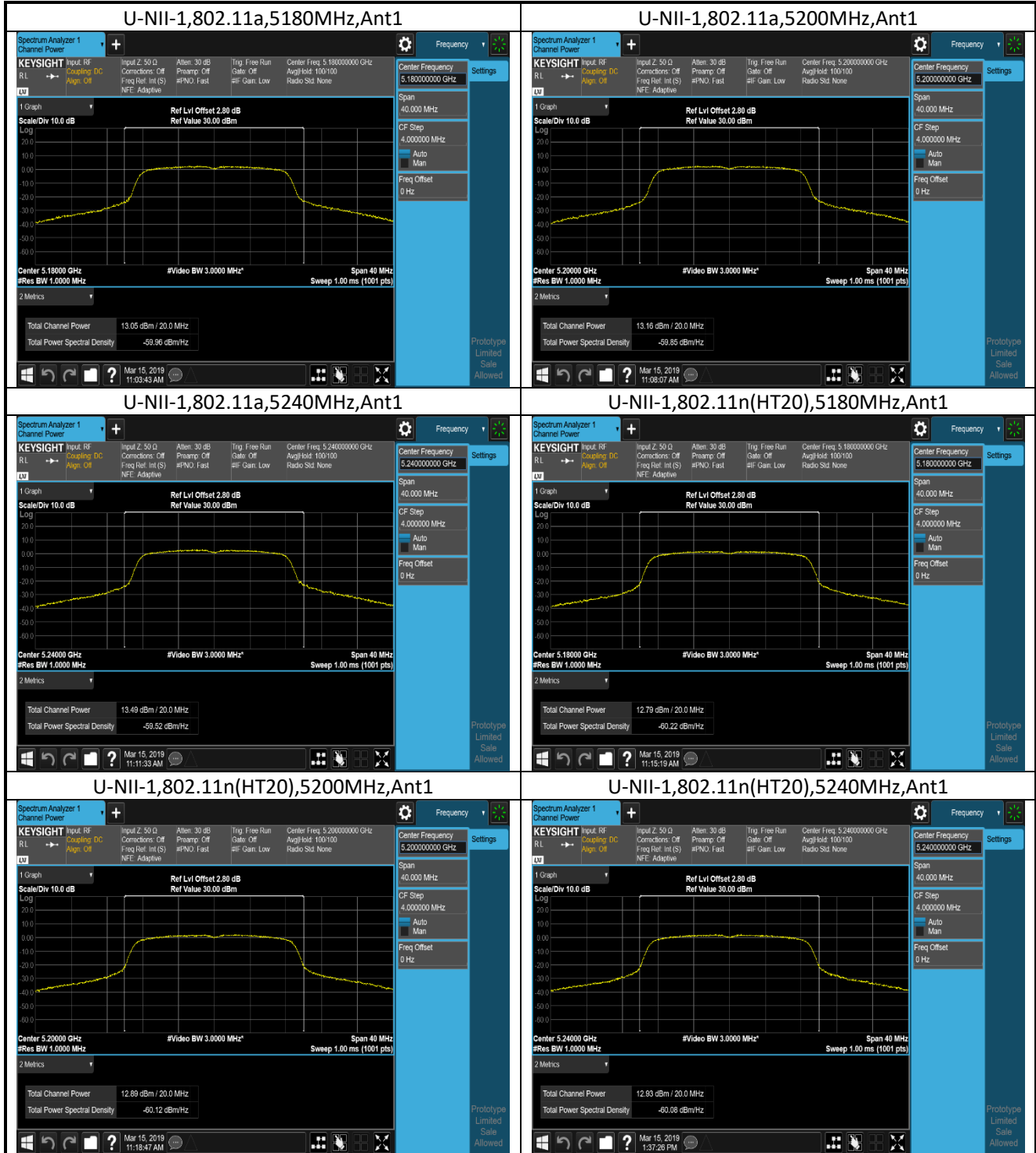
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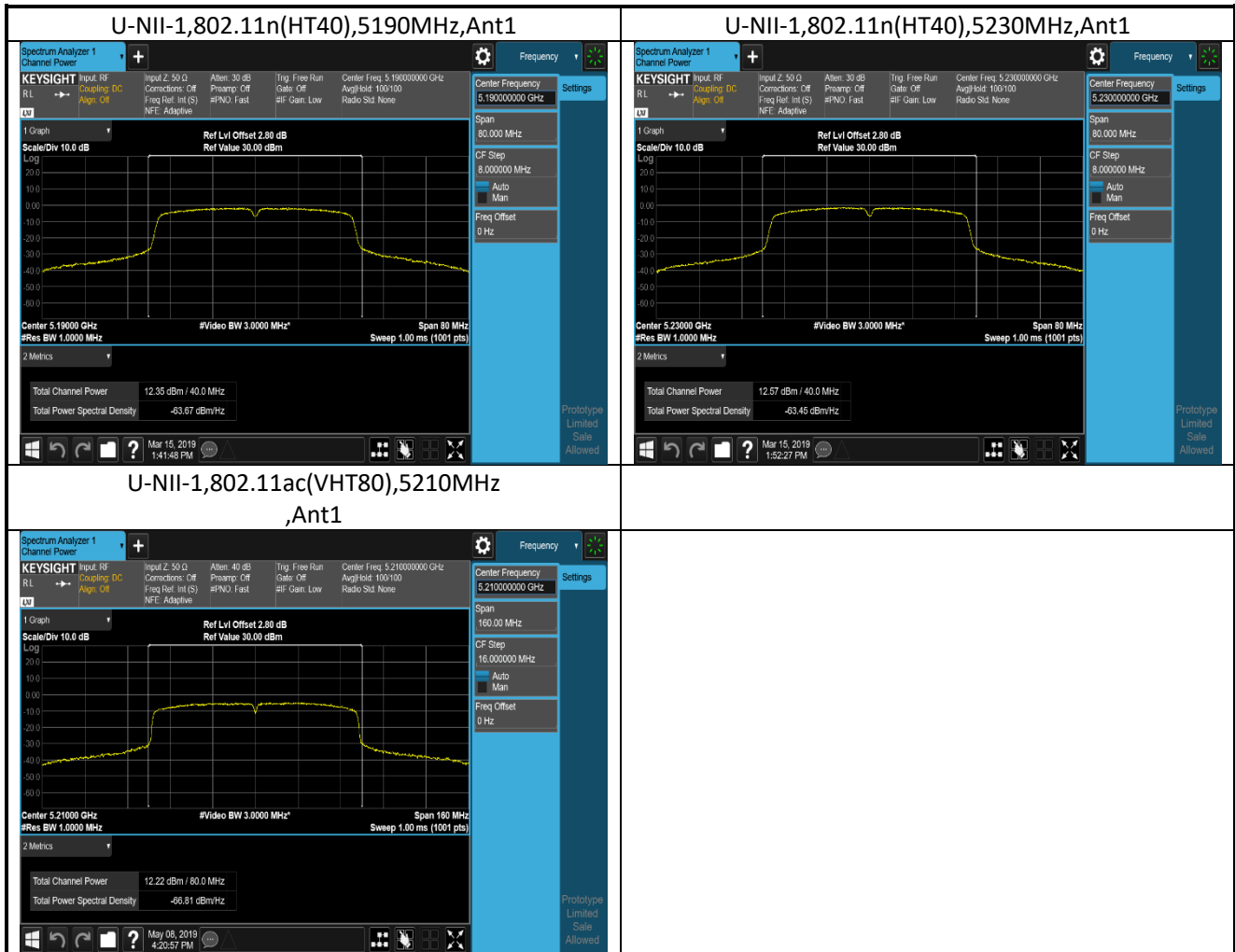
4. AVGSA Output Power

4.1 Test Data

U-NII-1 AVGSA Output Power								
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
802.11a	5180	Ant1	0.25	13.30	24	17.00	23	Pass
802.11a	5200	Ant1	0.21	13.37	24	17.07	23	Pass
802.11a	5240	Ant1	0.21	13.70	24	17.40	23	Pass
802.11n (HT20)	5180	Ant1	0.26	13.05	24	16.75	23	Pass
802.11n (HT20)	5200	Ant1	0.22	13.11	24	16.81	23	Pass
802.11n (HT20)	5240	Ant1	0.22	13.15	24	16.85	23	Pass
802.11n (HT40)	5190	Ant1	0.56	12.91	24	16.61	23	Pass
802.11n (HT40)	5230	Ant1	0.52	13.09	24	16.79	23	Pass
802.11ac (VHT80)	5210	Ant1	0.83	13.05	24	16.75	23	Pass

4.2 Test Plots





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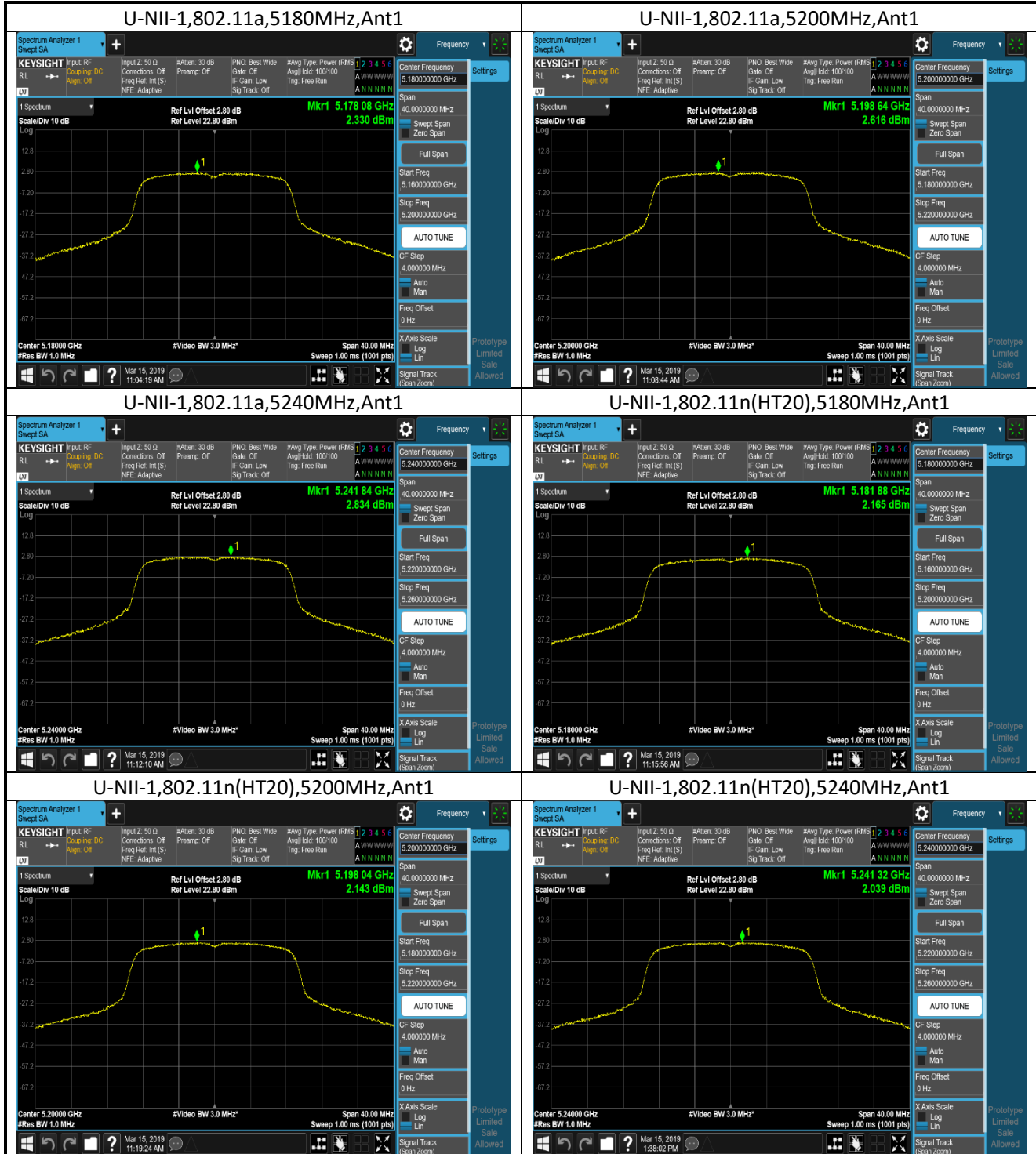
5. AVGSA Power Spectral Density

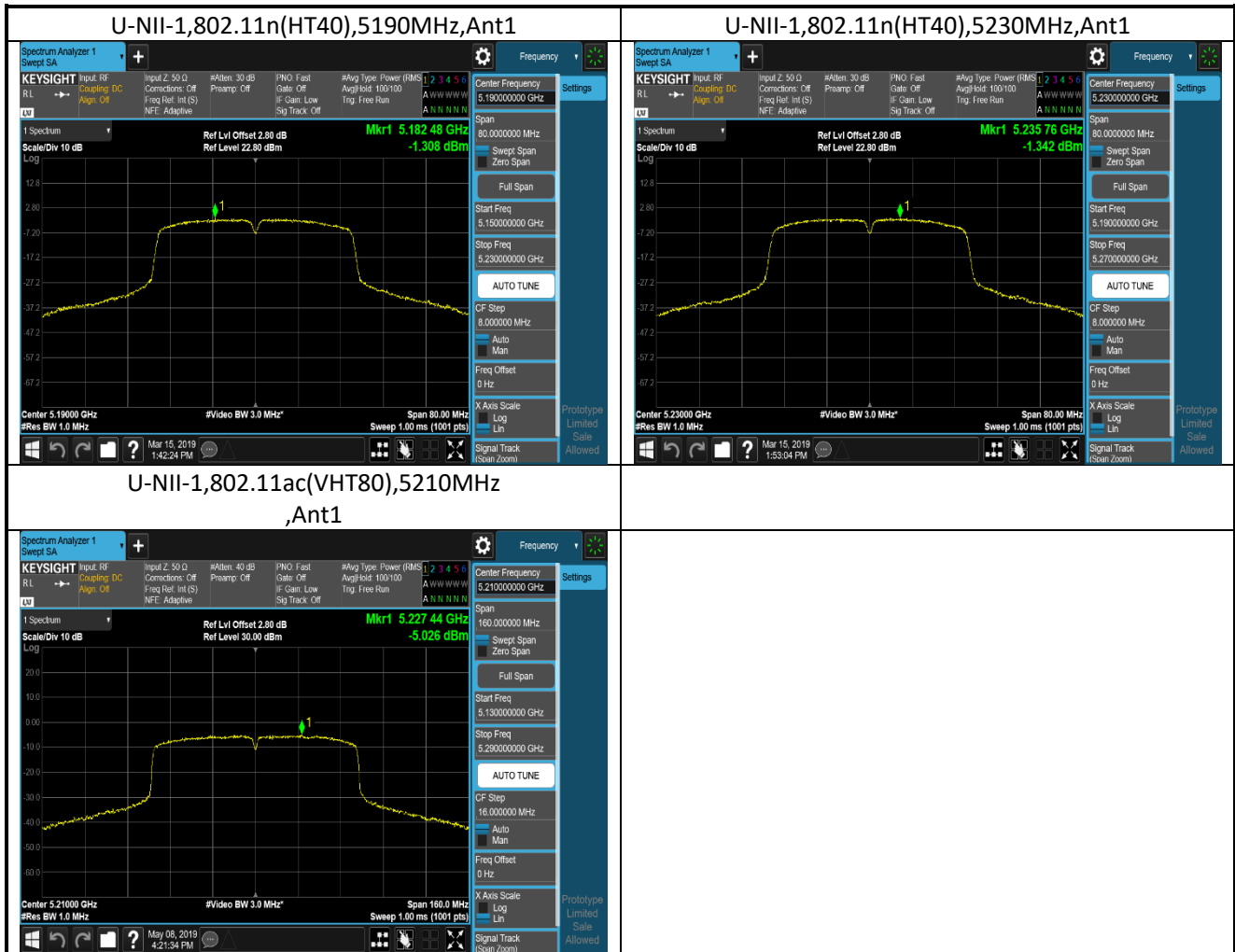
5.1 Test Data

U-NII-1 AVGSA Power Spectral Density							
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	PSD (dBm)	RBW (kHz)	Limit (dBm)	Result
802.11a	5180	Ant1	0.25	2.580	1000	11	Pass
802.11a	5200	Ant1	0.21	2.826	1000	11	Pass
802.11a	5240	Ant1	0.21	3.044	1000	11	Pass
802.11n (HT20)	5180	Ant1	0.26	2.425	1000	11	Pass
802.11n (HT20)	5200	Ant1	0.22	2.363	1000	11	Pass
802.11n (HT20)	5240	Ant1	0.22	2.259	1000	11	Pass
802.11n (HT40)	5190	Ant1	0.56	-0.748	1000	11	Pass
802.11n (HT40)	5230	Ant1	0.52	-0.822	1000	11	Pass
802.11ac (VHT80)	5210	Ant1	0.83	-4.196	1000	11	Pass

The maximum EIRP PSD = 3.044dBm/MHz+3.7dBi = **6.744dBm/MHz** which is lower than the limit of 10dBm in any 1 megahertz band listed in RSS-247.

5.2 Test Plots





***** END *****