

TEST REPORT

Appendix B: Test results

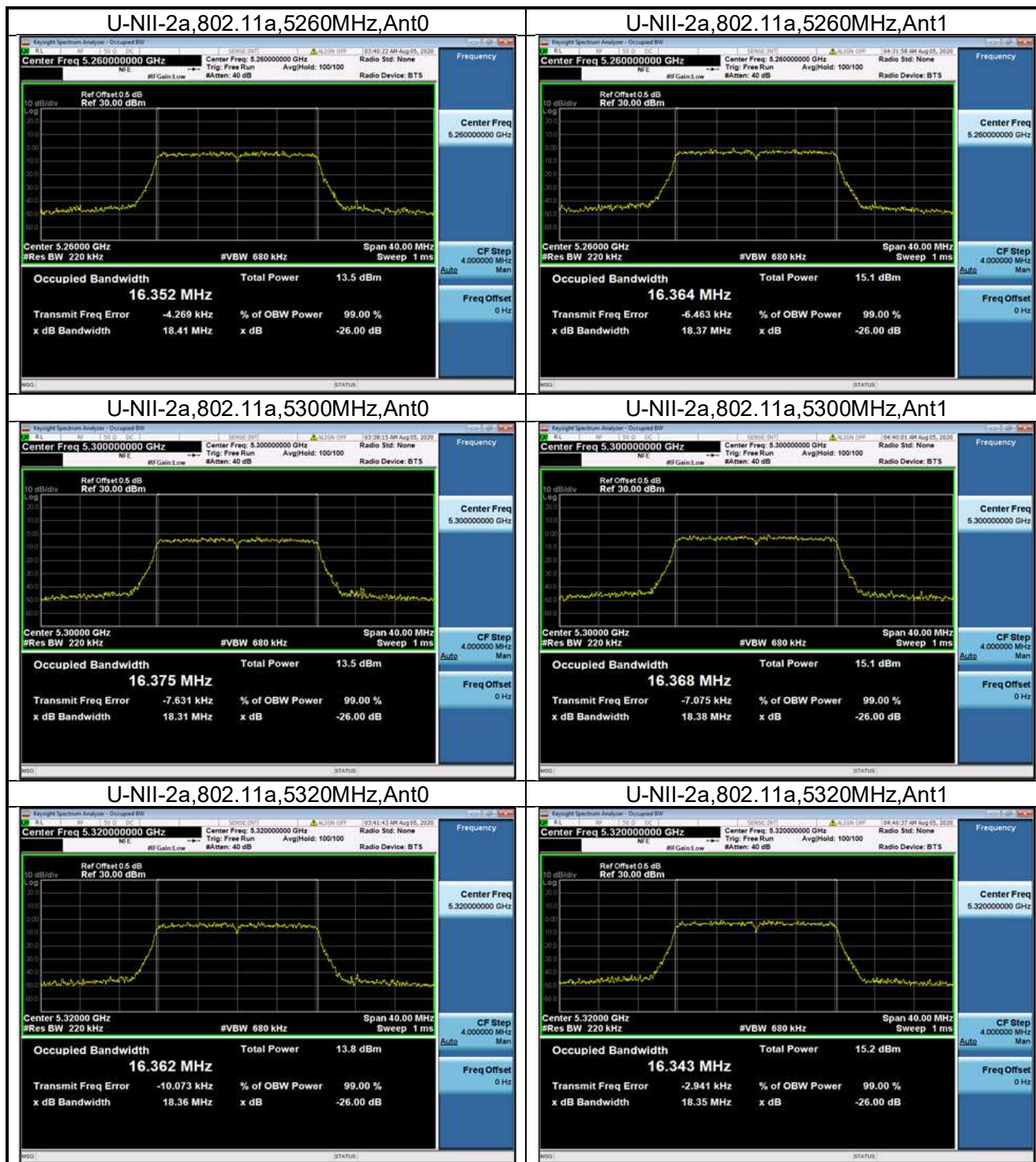
1. Occupied N dB Bandwidth

1.1 Test Data

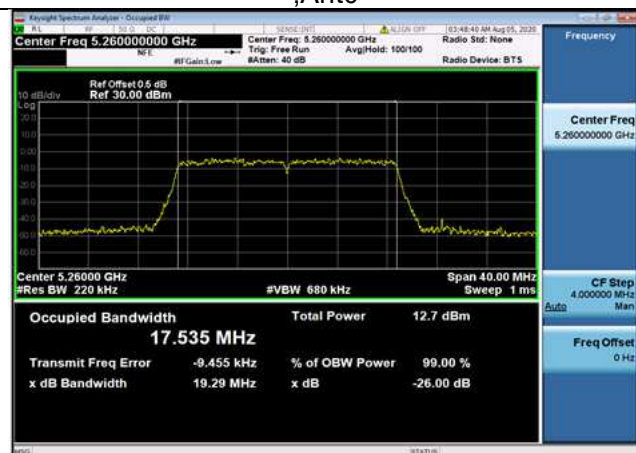
U-NII-2a Occupied N dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11a	5260	Ant0	18.41	Pass
802.11a	5260	Ant1	18.37	Pass
802.11a	5300	Ant0	18.32	Pass
802.11a	5300	Ant1	18.38	Pass
802.11a	5320	Ant0	18.36	Pass
802.11a	5320	Ant1	18.35	Pass
802.11n (HT20)	5260	Ant0	19.29	Pass
802.11n (HT20)	5260	Ant1	19.25	Pass
802.11n (HT20)	5300	Ant0	19.29	Pass
802.11n (HT20)	5300	Ant1	19.27	Pass
802.11n (HT20)	5320	Ant0	19.39	Pass
802.11n (HT20)	5320	Ant1	19.32	Pass
802.11n (HT40)	5270	Ant0	41.12	Pass
802.11n (HT40)	5270	Ant1	40.42	Pass
802.11n (HT40)	5310	Ant0	41.08	Pass
802.11n (HT40)	5310	Ant1	40.62	Pass
802.11ac (VHT80)	5290	Ant0	80.37	Pass
802.11ac (VHT80)	5290	Ant1	80.81	Pass

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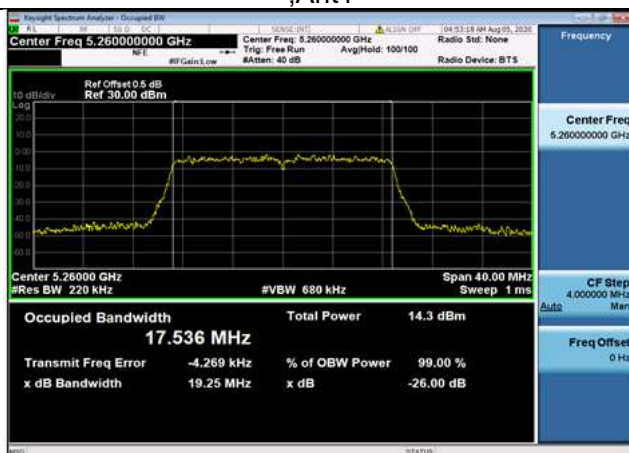
1.2 Test Plots



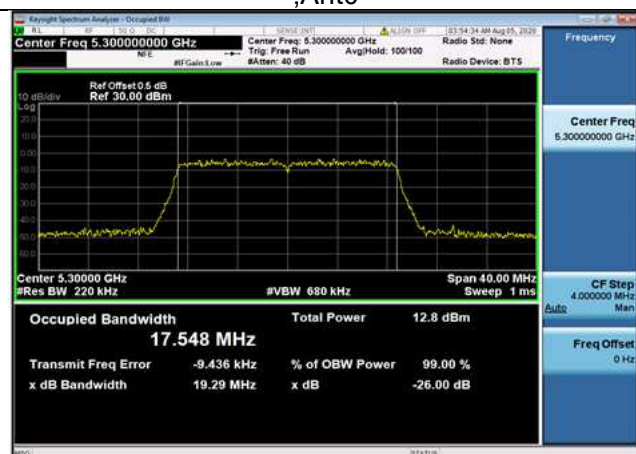
U-NII-2a,802.11n(HT20),5260MHz
,Ant0



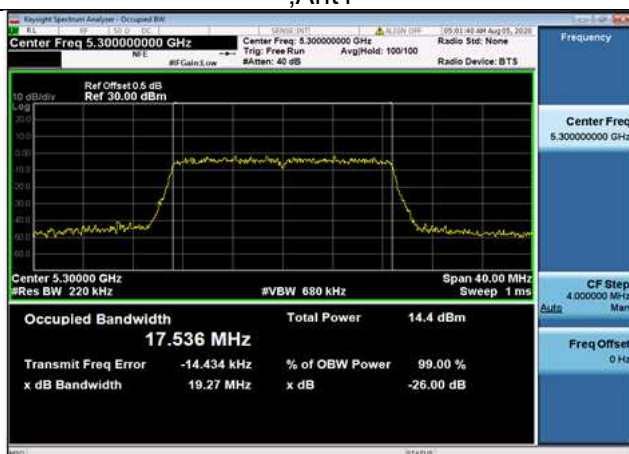
U-NII-2a,802.11n(HT20),5260MHz
,Ant1



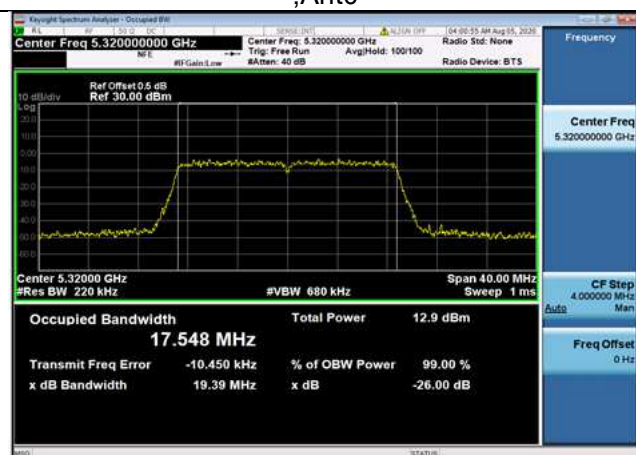
U-NII-2a,802.11n(HT20),5300MHz
,Ant0



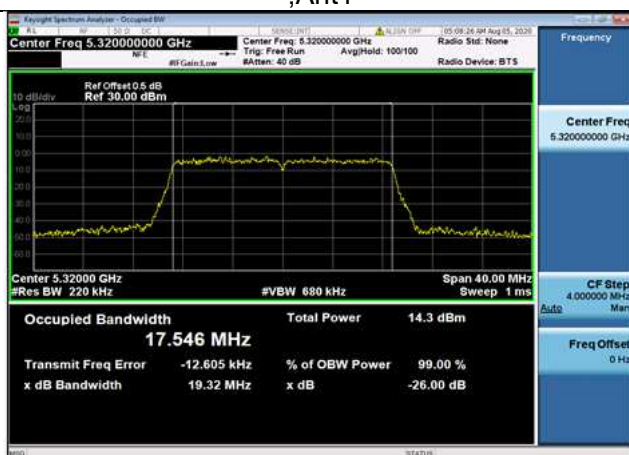
U-NII-2a,802.11n(HT20),5300MHz
,Ant1



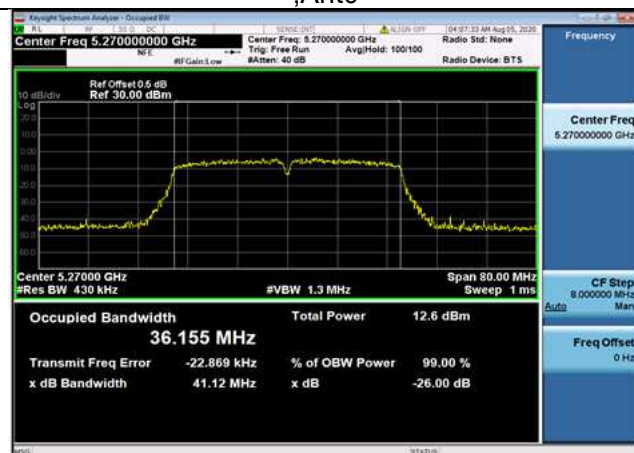
U-NII-2a,802.11n(HT20),5320MHz
,Ant0



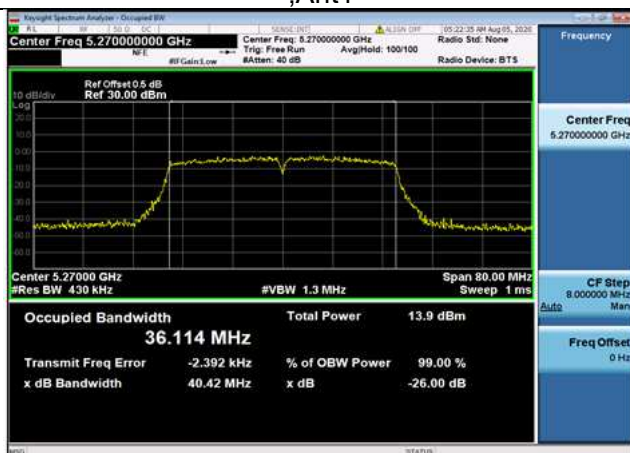
U-NII-2a,802.11n(HT20),5320MHz
,Ant1



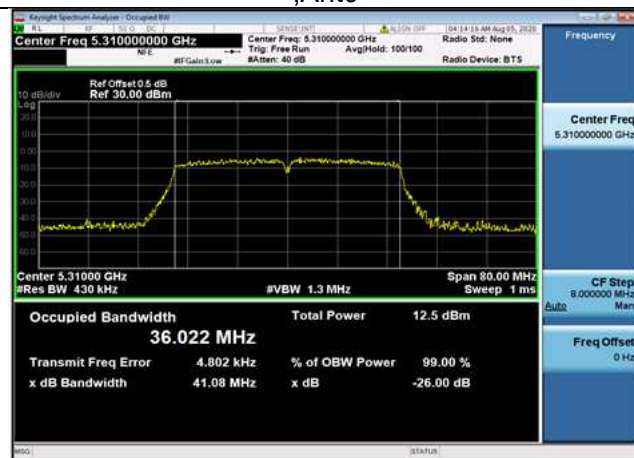
U-NII-2a,802.11n(HT40),5270MHz
.Ant0



U-NII-2a,802.11n(HT40),5270MHz
.Ant1



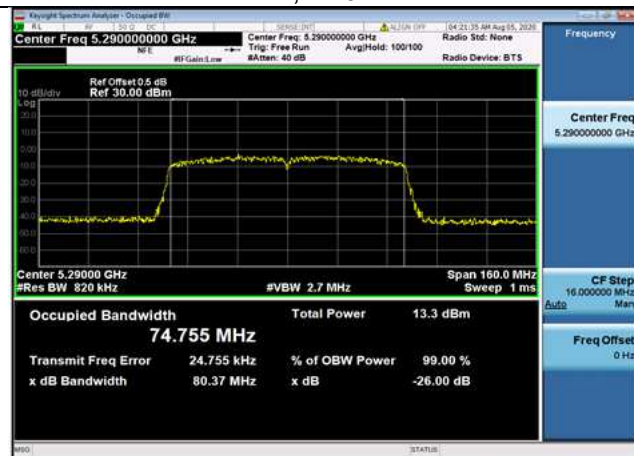
U-NII-2a,802.11n(HT40),5310MHz
,Ant0



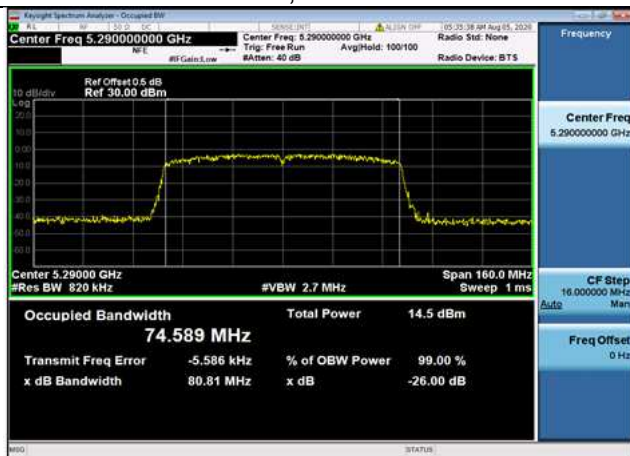
U-NII-2a,802.11n(HT40),5310MHz
,Ant1



U-NII-2a,802.11ac(VHT80),5290MHz
.Ant0



U-NII-2a,802.11ac(VHT80),5290MHz
.Ant1



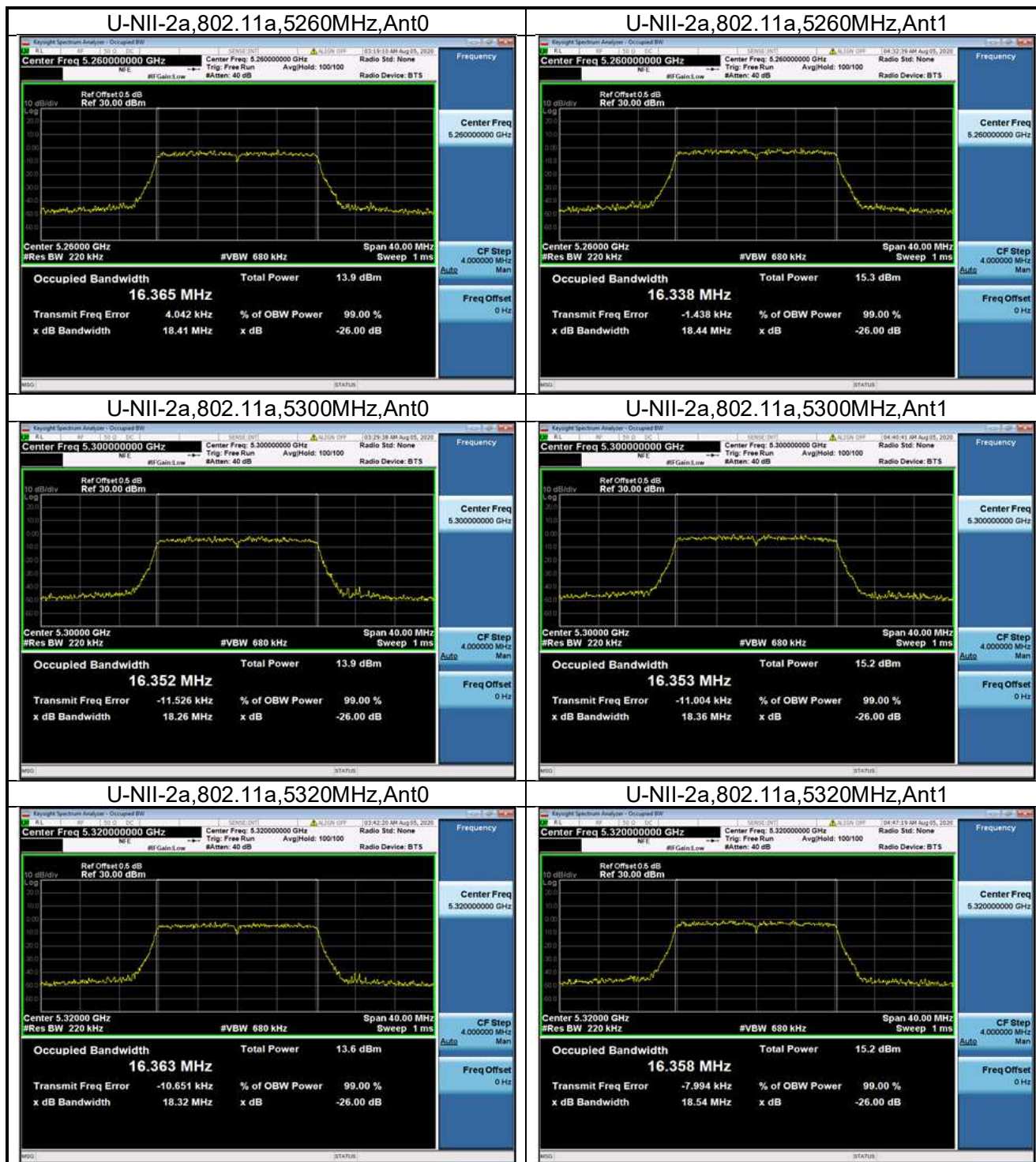
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2. 99% Occupied Bandwidth

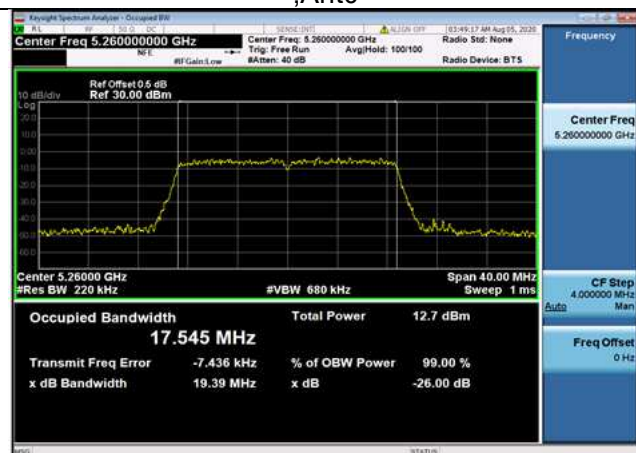
2.1 Test Data

U-NII-2a 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11a	5260	Ant0	16.365	Pass
802.11a	5260	Ant1	16.338	Pass
802.11a	5300	Ant0	16.352	Pass
802.11a	5300	Ant1	16.353	Pass
802.11a	5320	Ant0	16.363	Pass
802.11a	5320	Ant1	16.358	Pass
802.11n (HT20)	5260	Ant0	17.545	Pass
802.11n (HT20)	5260	Ant1	17.530	Pass
802.11n (HT20)	5300	Ant0	17.532	Pass
802.11n (HT20)	5300	Ant1	17.543	Pass
802.11n (HT20)	5320	Ant0	17.545	Pass
802.11n (HT20)	5320	Ant1	17.532	Pass
802.11n (HT40)	5270	Ant0	36.096	Pass
802.11n (HT40)	5270	Ant1	35.984	Pass
802.11n (HT40)	5310	Ant0	36.043	Pass
802.11n (HT40)	5310	Ant1	36.113	Pass
802.11ac (VHT80)	5290	Ant0	74.763	Pass
802.11ac (VHT80)	5290	Ant1	74.702	Pass

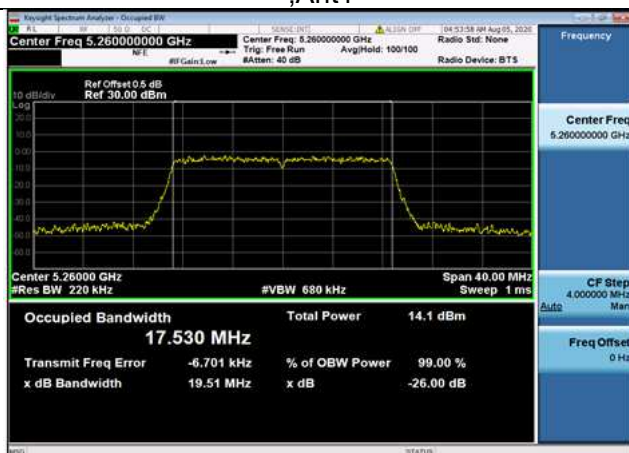
2.2 Test Plots



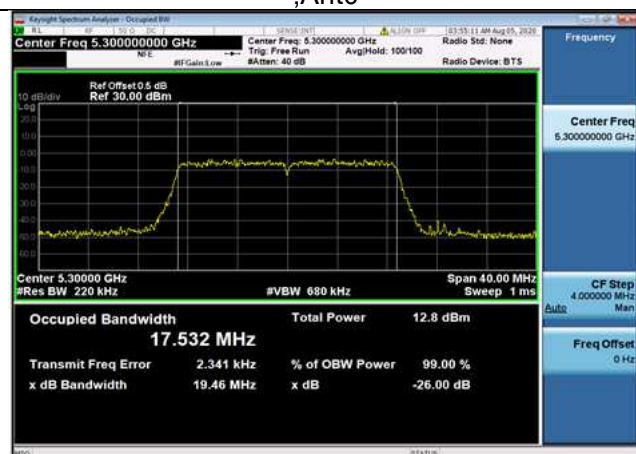
U-NII-2a,802.11n(HT20),5260MHz
,Ant0



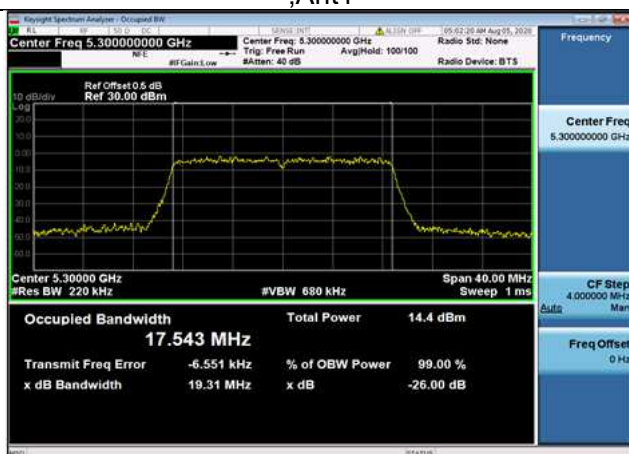
U-NII-2a,802.11n(HT20),5260MHz
,Ant1



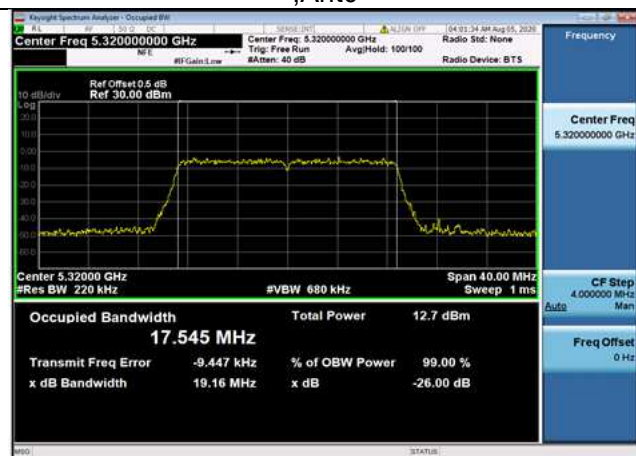
U-NII-2a,802.11n(HT20),5300MHz
,Ant0



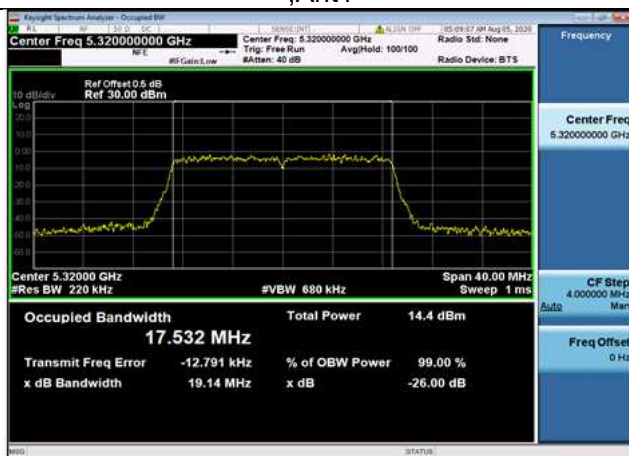
U-NII-2a,802.11n(HT20),5300MHz
,Ant1



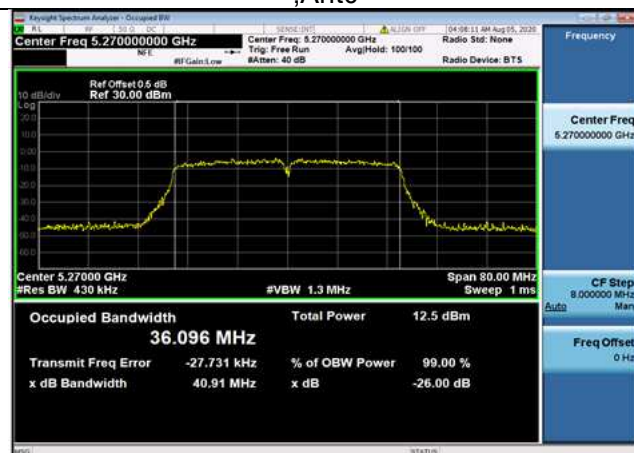
U-NII-2a,802.11n(HT20),5320MHz
,Ant0



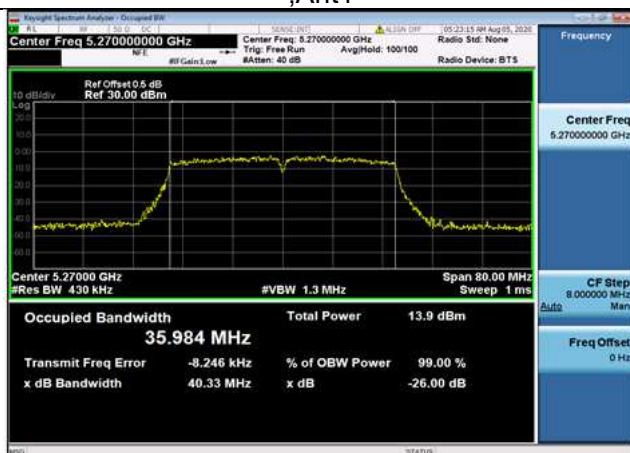
U-NII-2a,802.11n(HT20),5320MHz
,Ant1



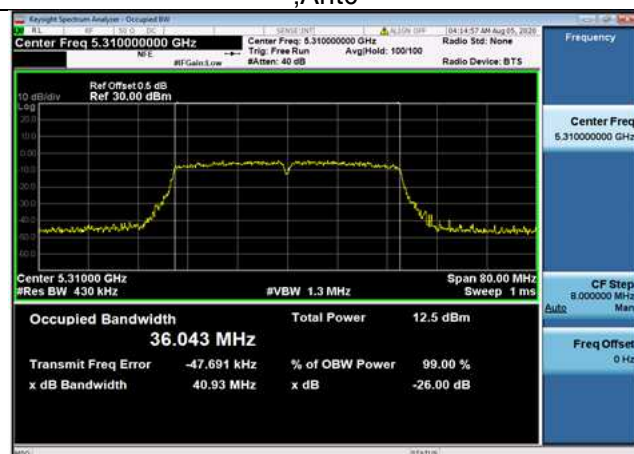
U-NII-2a,802.11n(HT40),5270MHz
.Ant0



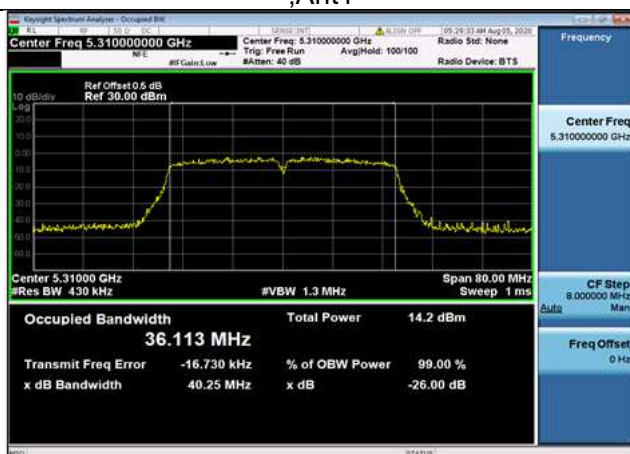
U-NII-2a,802.11n(HT40),5270MHz
.Ant1



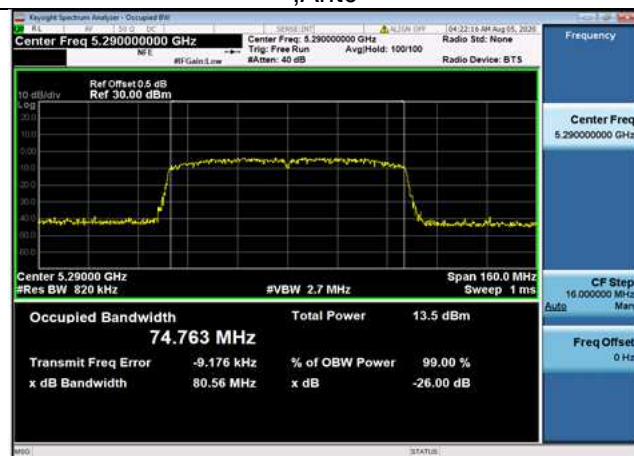
U-NII-2a,802.11n(HT40),5310MHz
,Ant0



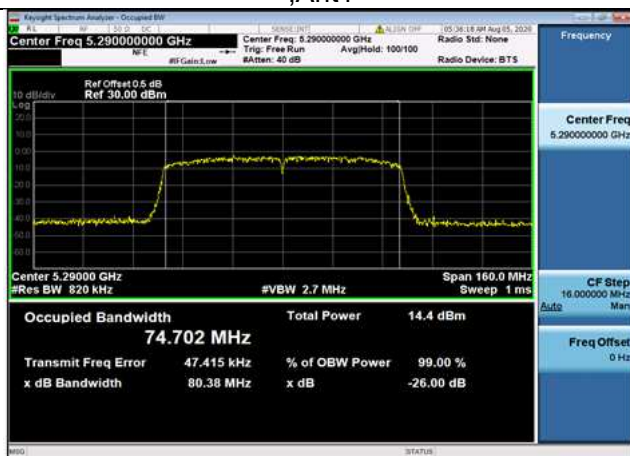
U-NII-2a,802.11n(HT40),5310MHz
,Ant1



U-NII-2a,802.11ac(VHT80),5290MHz
.Ant0



U-NII-2a,802.11ac(VHT80),5290MHz
.Ant1



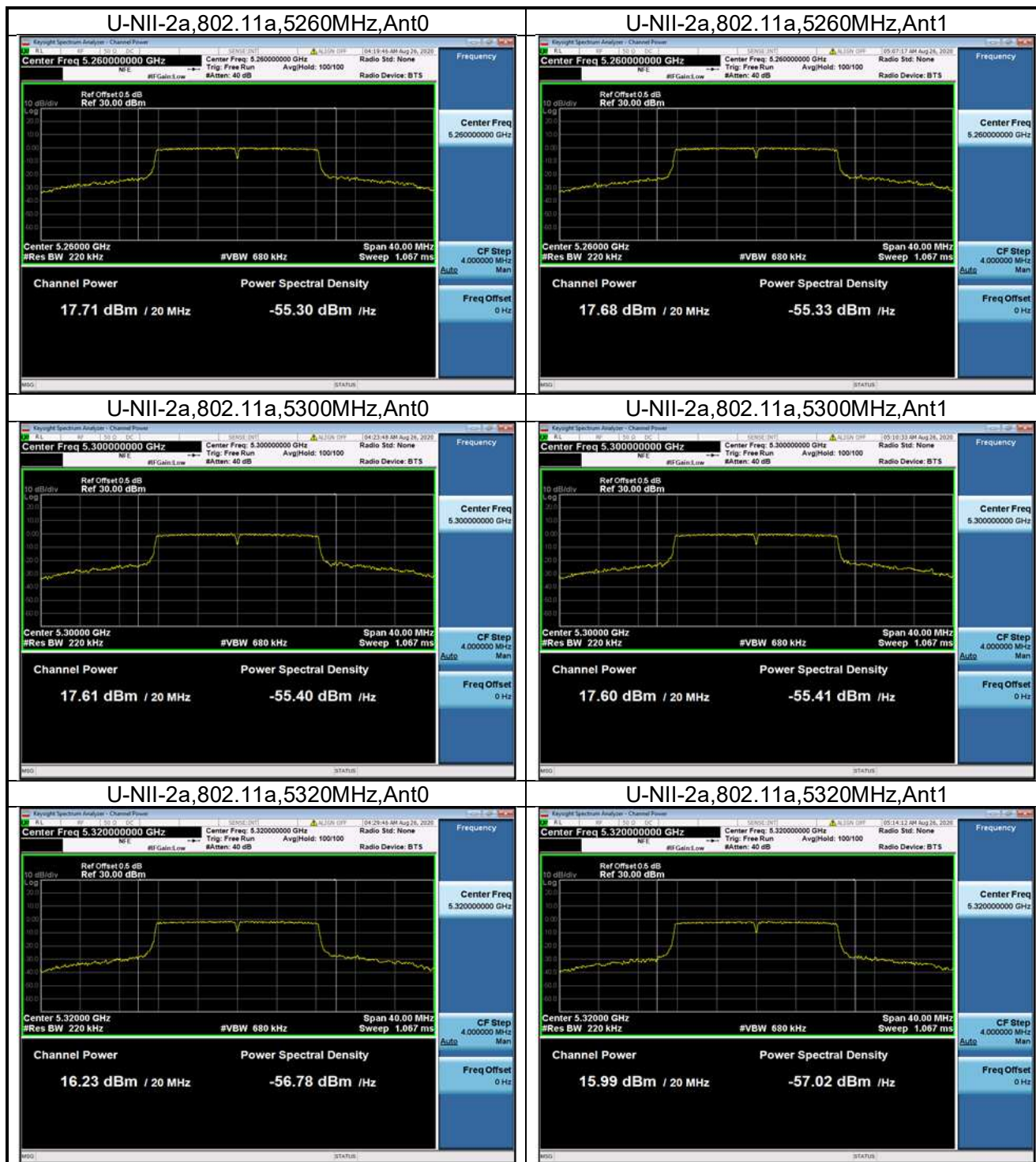
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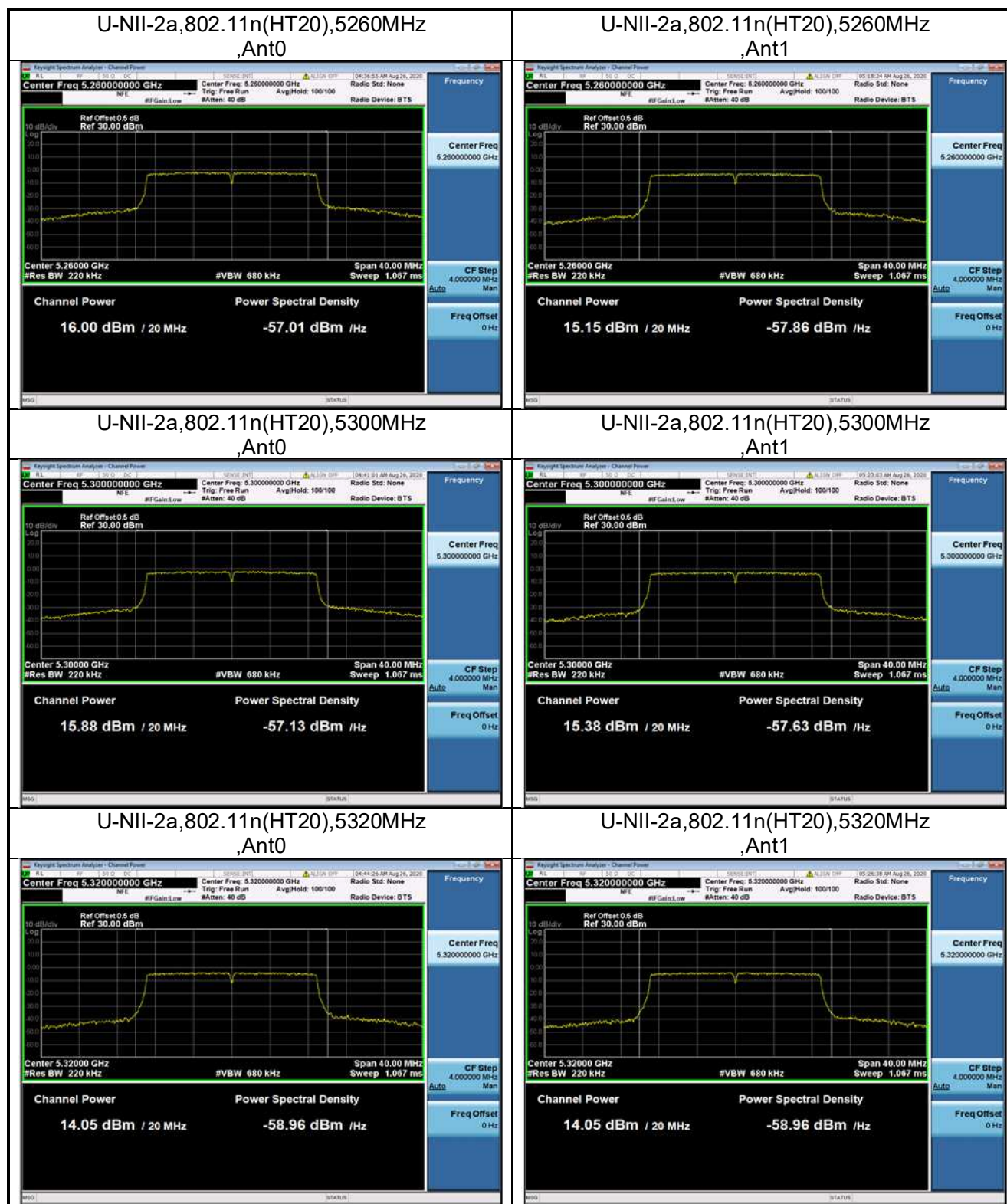
3. AVGSA Output Power

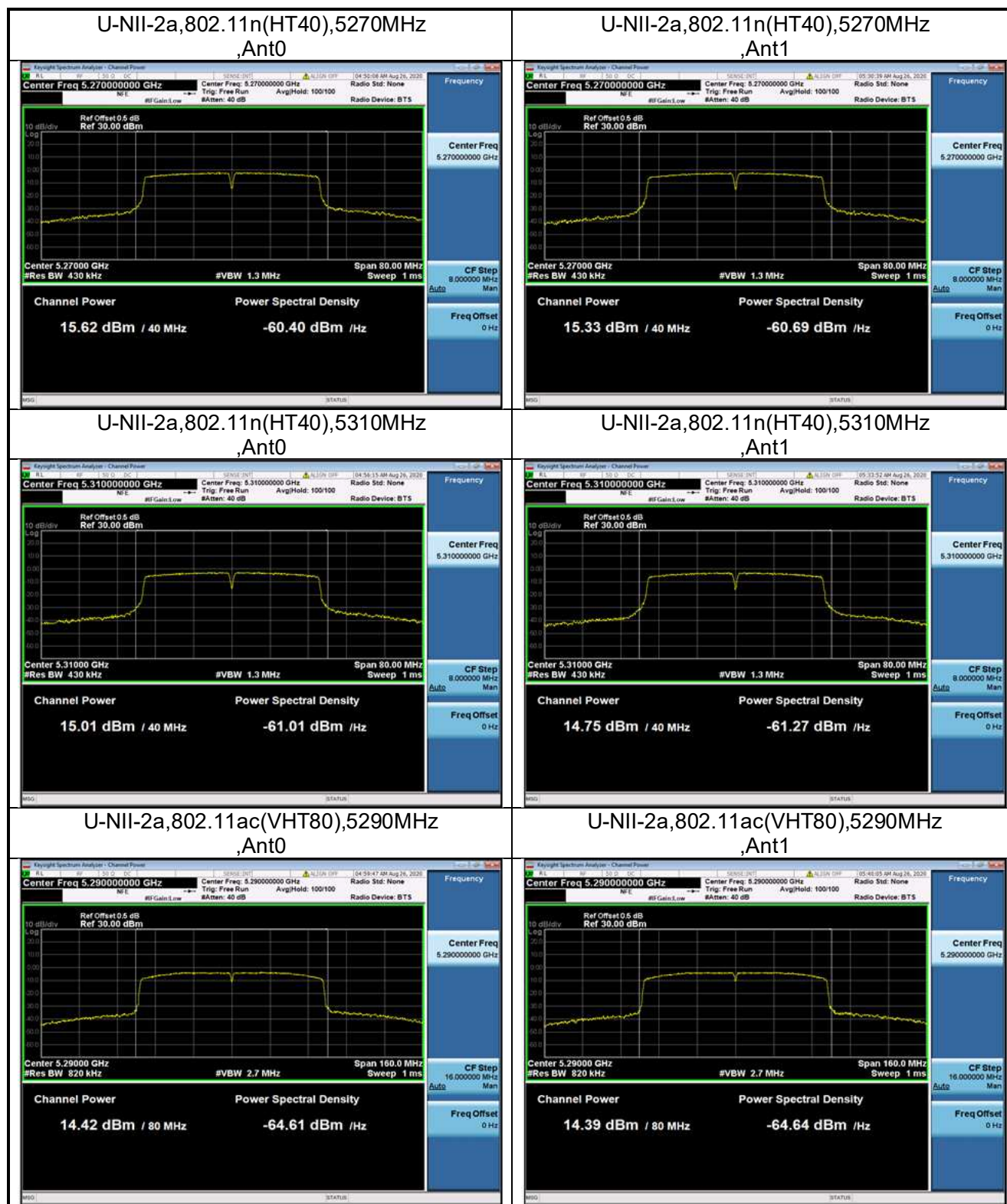
3.1 Test Data

U-NII-2a AVGSA Output Power									
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Total Power (dBm)	FCC Limit (dBm)	IC Limit (dBm)	EIRP (dBm)	Result
802.11a	5260	Ant0	0.00	17.71	17.71	24	23	21.39	Pass
802.11a	5260	Ant1	0.00	17.68	17.68	24	23	21.05	Pass
802.11a	5300	Ant0	0.00	17.61	17.61	24	23	21.29	Pass
802.11a	5300	Ant1	0.00	17.60	17.60	24	23	20.97	Pass
802.11a	5320	Ant0	0.00	16.23	16.23	24	23	19.91	Pass
802.11a	5320	Ant1	0.00	15.99	15.99	24	23	19.36	Pass
802.11n (HT20)	5260	Ant0	0.00	16.00	18.61	24	23	22.14	Pass
802.11n (HT20)	5260	Ant1	0.00	15.15					
802.11n (HT20)	5300	Ant0	0.00	15.88	18.65	24	23	22.18	Pass
802.11n (HT20)	5300	Ant1	0.00	15.38					
802.11n (HT20)	5320	Ant0	0.00	14.05	17.06	24	23	20.59	Pass
802.11n (HT20)	5320	Ant1	0.00	14.05					
802.11n (HT40)	5270	Ant0	0.00	15.62	18.49	24	24	22.02	Pass
802.11n (HT40)	5270	Ant1	0.00	15.33					
802.11n (HT40)	5310	Ant0	0.00	15.01	17.89	24	24	21.42	Pass
802.11n (HT40)	5310	Ant1	0.00	14.75					
802.11ac (VHT80)	5290	Ant0	0.00	14.42	17.42	24	24	20.95	Pass
802.11ac (VHT80)	5290	Ant1	0.00	14.39					

3.2 Test Plots







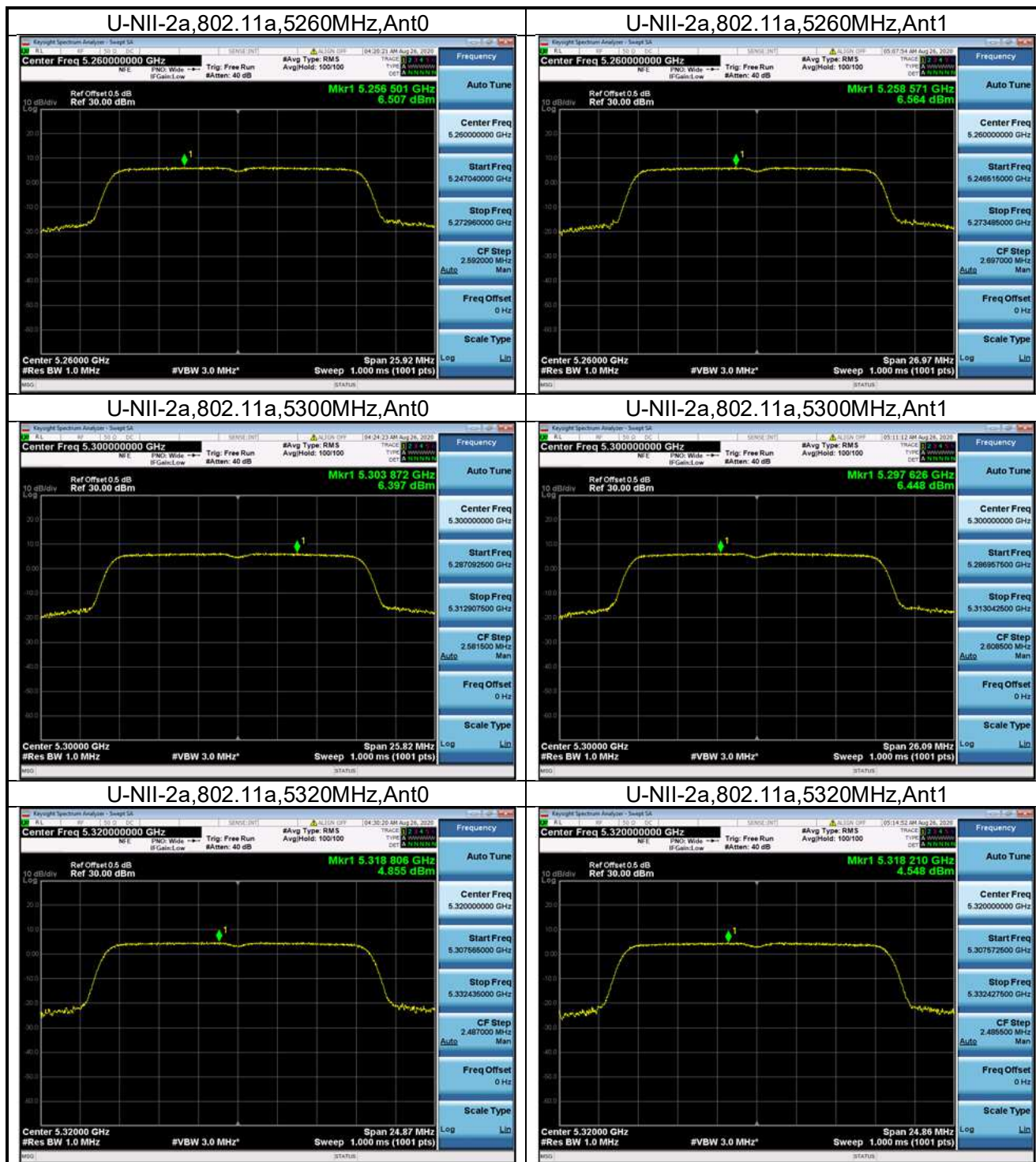
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4. AVGSA Power Spectral Density

4.1 Test Data

U-NII-2a 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	5260	Ant0	0.00	6.507	6.507	1000	11	Pass
802.11a	5260	Ant1	0.00	6.564	6.564	1000	11	Pass
802.11a	5300	Ant0	0.00	6.397	6.397	1000	11	Pass
802.11a	5300	Ant1	0.00	6.448	6.448	1000	11	Pass
802.11a	5320	Ant0	0.00	4.855	4.855	1000	11	Pass
802.11a	5320	Ant1	0.00	4.548	4.548	1000	11	Pass
802.11n (HT20)	5260	Ant0	0.00	4.474	7.077	1000	11	Pass
802.11n (HT20)	5260	Ant1	0.00	3.617				
802.11n (HT20)	5300	Ant0	0.00	4.445	7.186	1000	11	Pass
802.11n (HT20)	5300	Ant1	0.00	3.889				
802.11n (HT20)	5320	Ant0	0.00	2.228	5.411	1000	11	Pass
802.11n (HT20)	5320	Ant1	0.00	2.567				
802.11n (HT40)	5270	Ant0	0.00	1.423	4.383	1000	11	Pass
802.11n (HT40)	5270	Ant1	0.00	1.321				
802.11n (HT40)	5310	Ant0	0.00	0.987	3.890	1000	11	Pass
802.11n (HT40)	5310	Ant1	0.00	0.770				
802.11ac (VHT80)	5290	Ant0	0.00	-2.984	0.164	1000	11	Pass
802.11ac (VHT80)	5290	Ant1	0.00	-2.712				

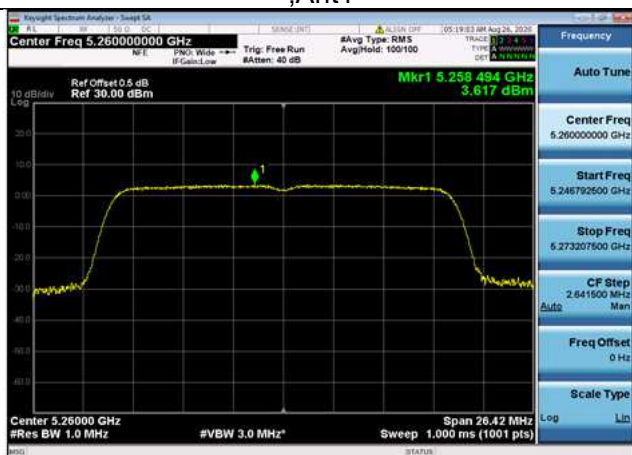
4.2 Test Plots



U-NII-2a,802.11n(HT20),5260MHz
,Ant0



U-NII-2a,802.11n(HT20),5260MHz
,Ant1



U-NII-2a,802.11n(HT20),5300MHz
,Ant0



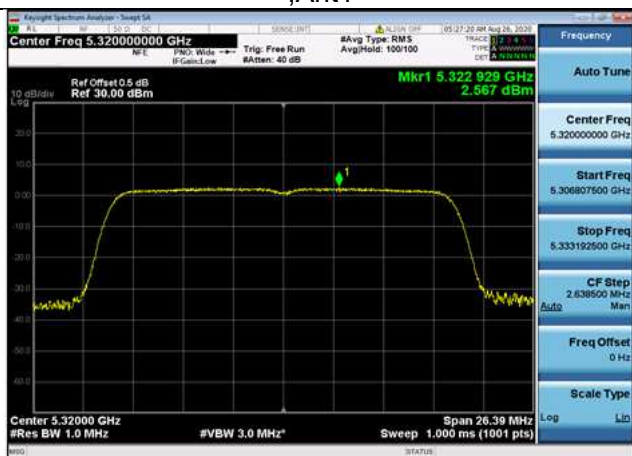
U-NII-2a,802.11n(HT20),5300MHz
,Ant1



U-NII-2a,802.11n(HT20),5320MHz
,Ant0



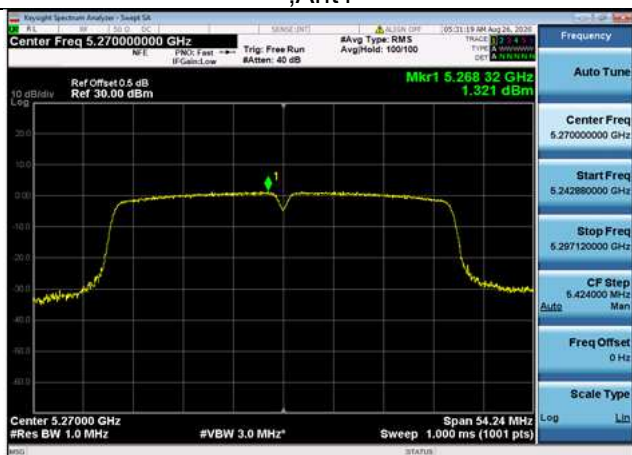
U-NII-2a,802.11n(HT20),5320MHz
,Ant1



U-NII-2a,802.11n(HT40),5270MHz
,Ant0



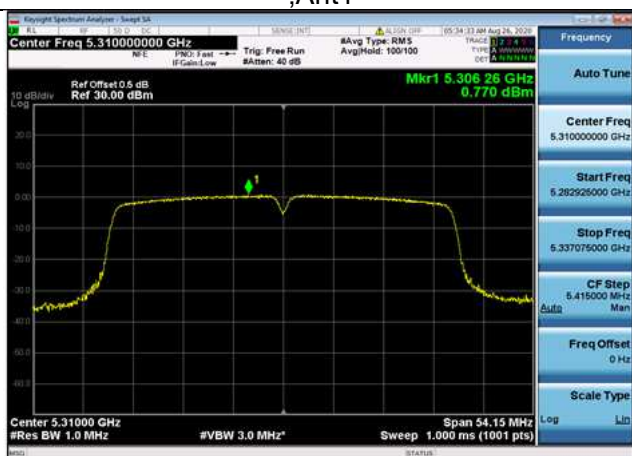
U-NII-2a,802.11n(HT40),5270MHz
,Ant1



U-NII-2a,802.11n(HT40),5310MHz
,Ant0



U-NII-2a,802.11n(HT40),5310MHz
,Ant1



U-NII-2a,802.11ac(VHT80),5290MHz
,Ant0



U-NII-2a,802.11ac(VHT80),5290MHz
,Ant1

