

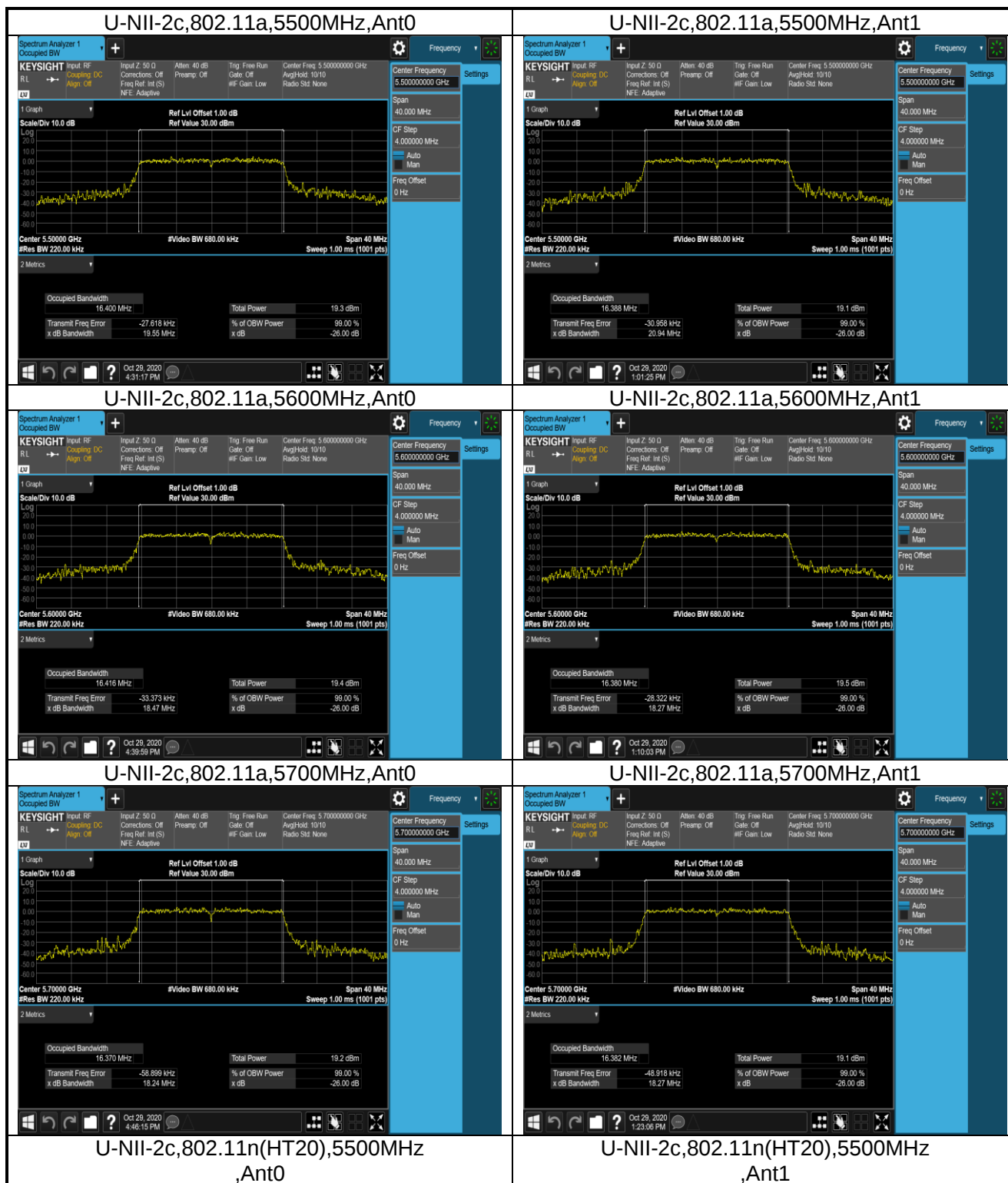
Appendix A: Test results

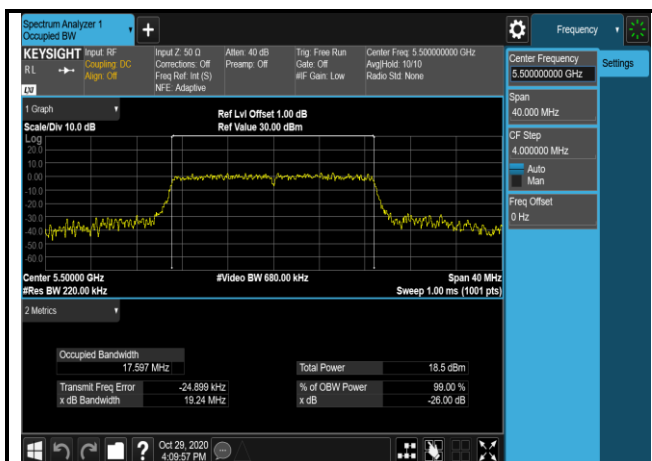
1. Occupied N dB Bandwidth

1.1 Test Data

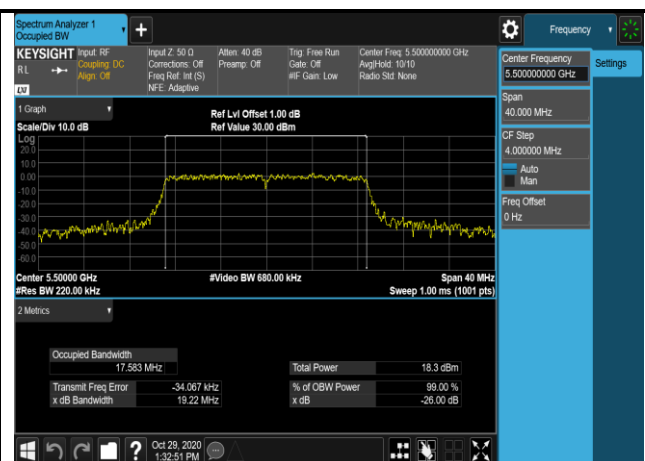
U-NII-2c Occupied N dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11a	5500	Ant0	19.55	Pass
802.11a	5500	Ant1	20.94	Pass
802.11a	5600	Ant0	18.47	Pass
802.11a	5600	Ant1	18.27	Pass
802.11a	5700	Ant0	18.24	Pass
802.11a	5700	Ant1	18.27	Pass
802.11n (HT20)	5500	Ant0	19.25	Pass
802.11n (HT20)	5500	Ant1	19.22	Pass
802.11n (HT20)	5600	Ant0	19.12	Pass
802.11n (HT20)	5600	Ant1	19.41	Pass
802.11n (HT20)	5700	Ant0	19.19	Pass
802.11n (HT20)	5700	Ant1	19.22	Pass
802.11n (HT40)	5510	Ant0	40.47	Pass
802.11n (HT40)	5510	Ant1	40.78	Pass
802.11n (HT40)	5590	Ant0	40.39	Pass
802.11n (HT40)	5590	Ant1	40.19	Pass
802.11n (HT40)	5670	Ant0	39.58	Pass
802.11n (HT40)	5670	Ant1	40.19	Pass
802.11ac (VHT80)	5530	Ant0	79.77	Pass
802.11ac (VHT80)	5530	Ant1	80.63	Pass
802.11ac (VHT80)	5610	Ant0	79.37	Pass
802.11ac (VHT80)	5610	Ant1	80.14	Pass

1.2 Test Plots

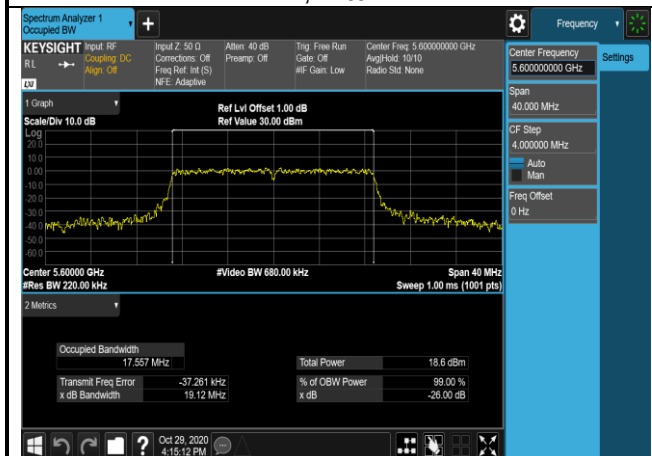




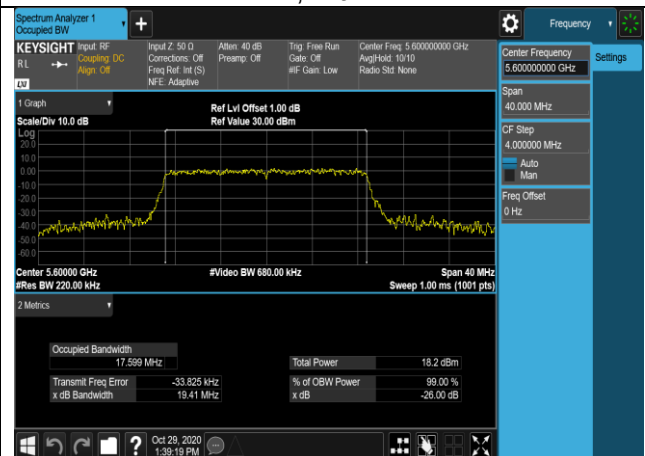
U-NII-2c,802.11n(HT20),5600MHz
,Ant0



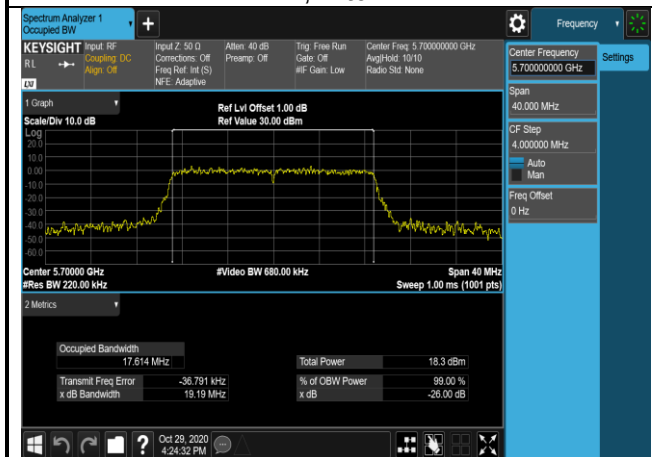
U-NII-2c,802.11n(HT20),5600MHz
,Ant1



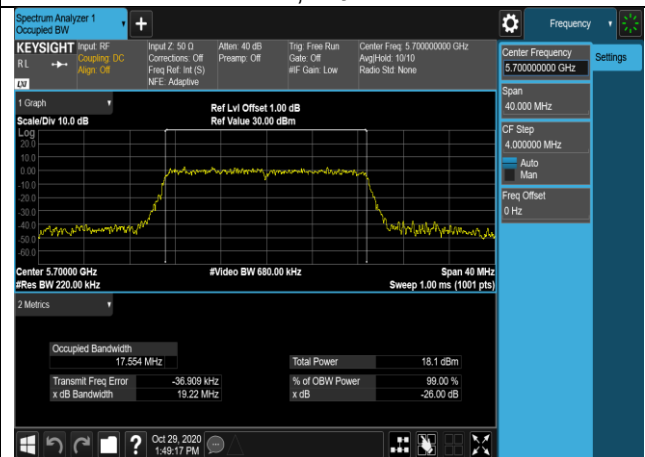
U-NII-2c,802.11n(HT20),5700MHz
,Ant0



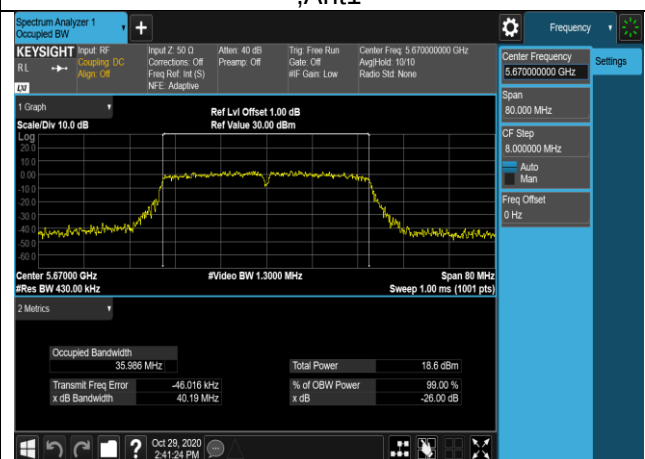
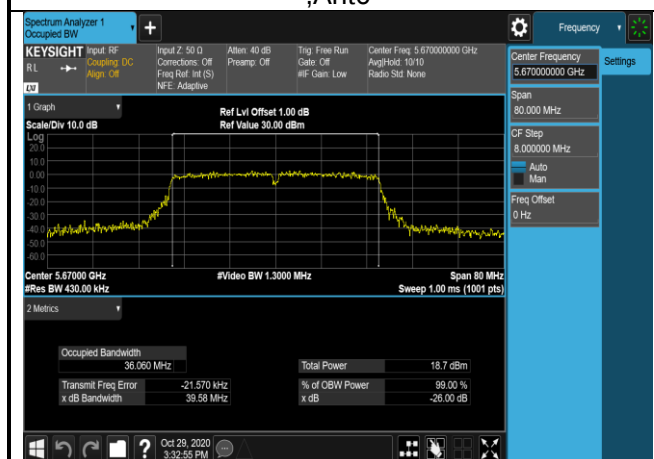
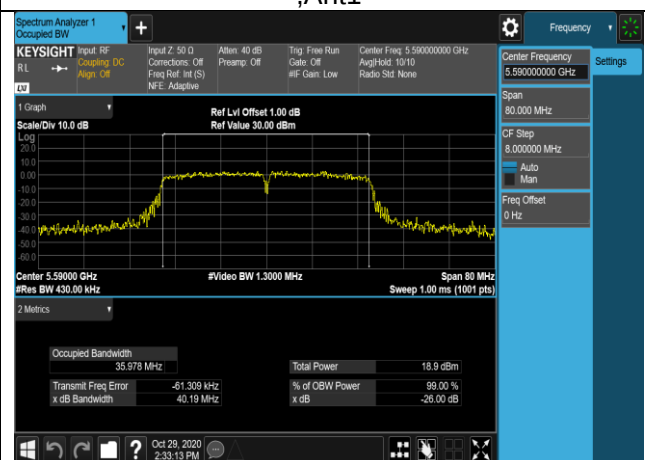
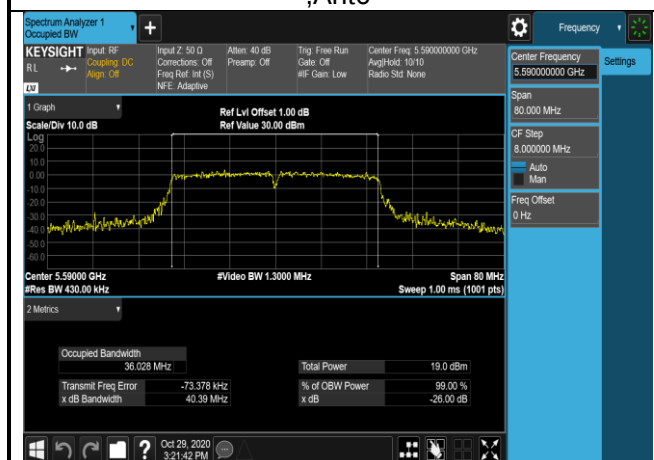
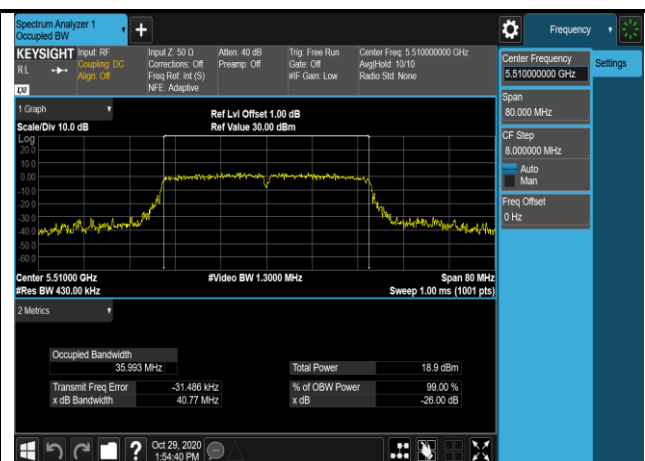
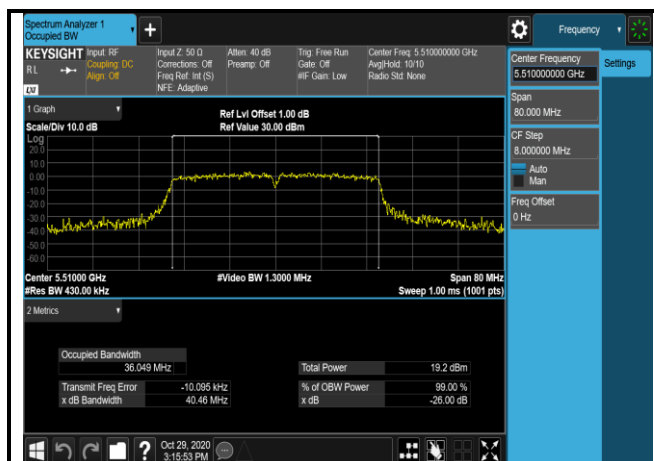
U-NII-2c,802.11n(HT20),5700MHz
,Ant1

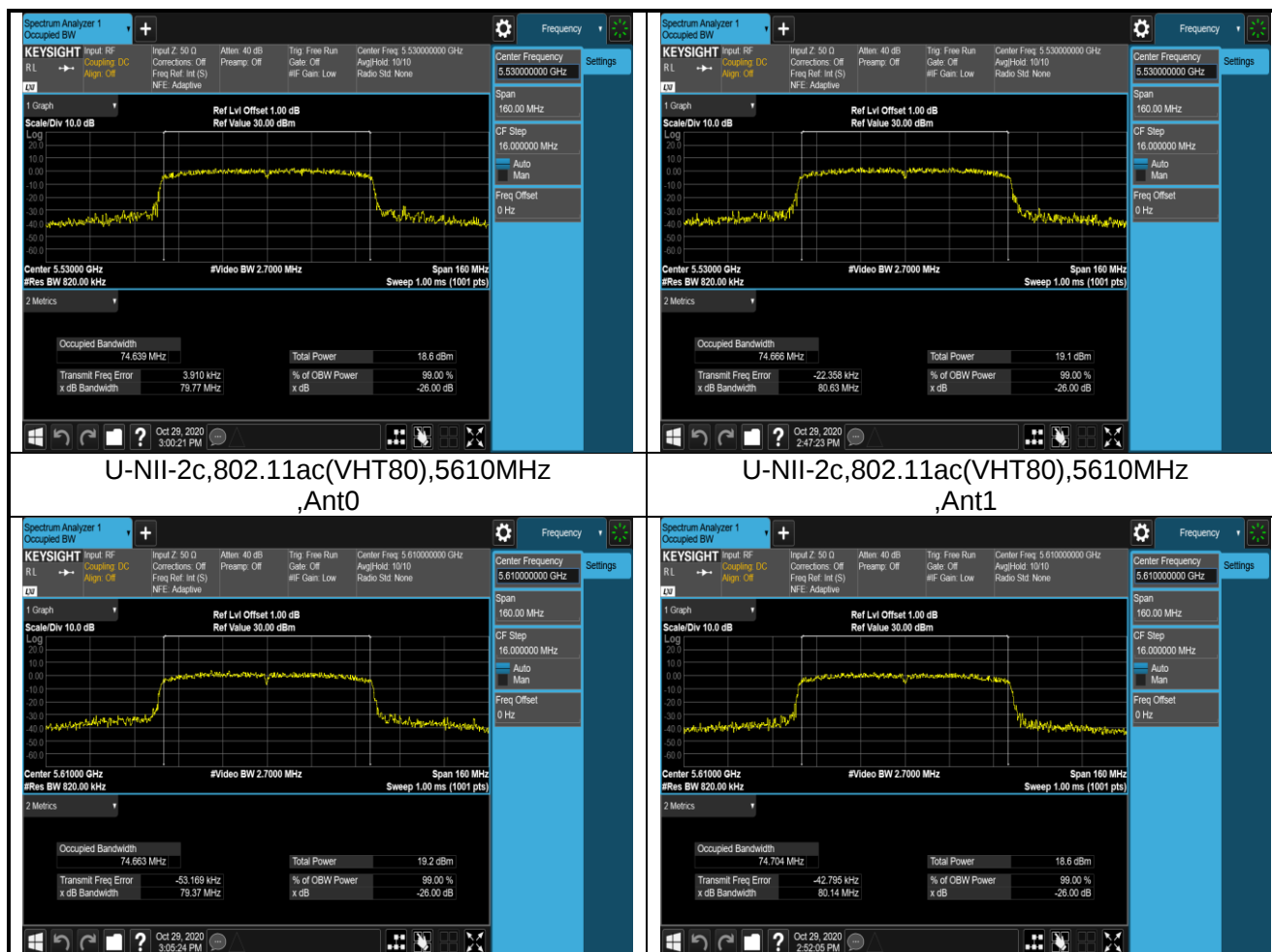


U-NII-2c,802.11n(HT40),5510MHz
,Ant0



U-NII-2c,802.11n(HT40),5510MHz
,Ant1



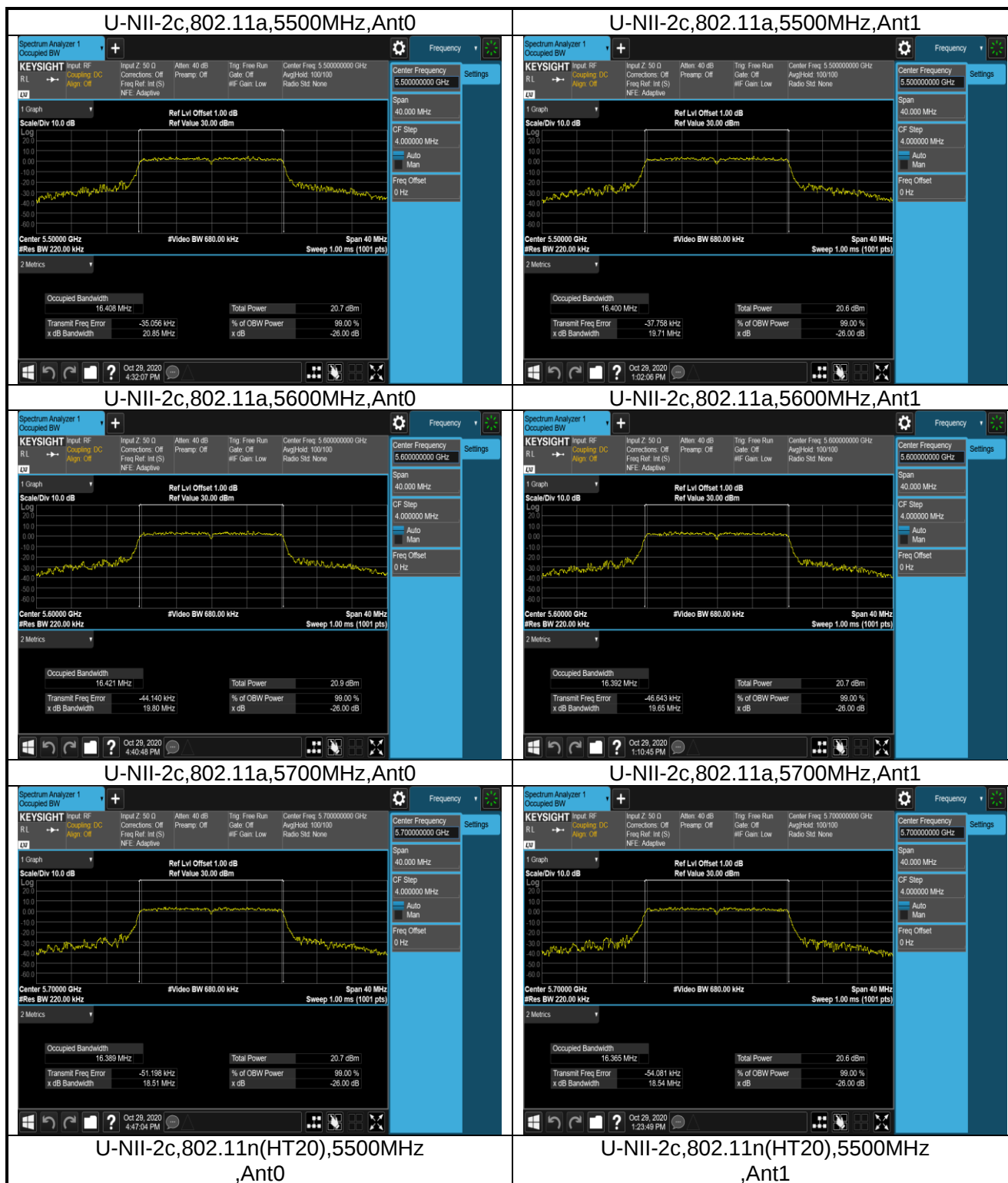


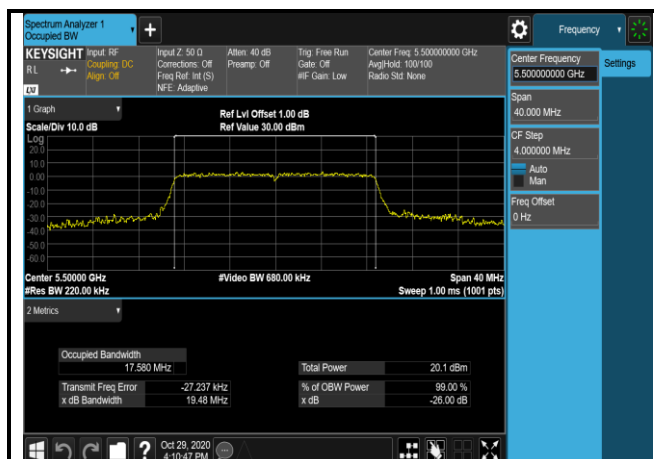
2. 99% Occupied Bandwidth

2.1 Test Data

U-NII-2c 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11a	5500	Ant0	16.408	Pass
802.11a	5500	Ant1	16.400	Pass
802.11a	5600	Ant0	16.421	Pass
802.11a	5600	Ant1	16.392	Pass
802.11a	5700	Ant0	16.389	Pass
802.11a	5700	Ant1	16.365	Pass
802.11n (HT20)	5500	Ant0	17.580	Pass
802.11n (HT20)	5500	Ant1	17.551	Pass
802.11n (HT20)	5600	Ant0	17.567	Pass
802.11n (HT20)	5600	Ant1	17.564	Pass
802.11n (HT20)	5700	Ant0	17.566	Pass
802.11n (HT20)	5700	Ant1	17.546	Pass
802.11n (HT40)	5510	Ant0	36.074	Pass
802.11n (HT40)	5510	Ant1	36.093	Pass
802.11n (HT40)	5590	Ant0	36.109	Pass
802.11n (HT40)	5590	Ant1	36.071	Pass
802.11n (HT40)	5670	Ant0	36.034	Pass
802.11n (HT40)	5670	Ant1	36.046	Pass
802.11ac (VHT80)	5530	Ant0	74.634	Pass
802.11ac (VHT80)	5530	Ant1	74.705	Pass
802.11ac (VHT80)	5610	Ant0	74.659	Pass
802.11ac (VHT80)	5610	Ant1	74.745	Pass

2.2 Test Plots

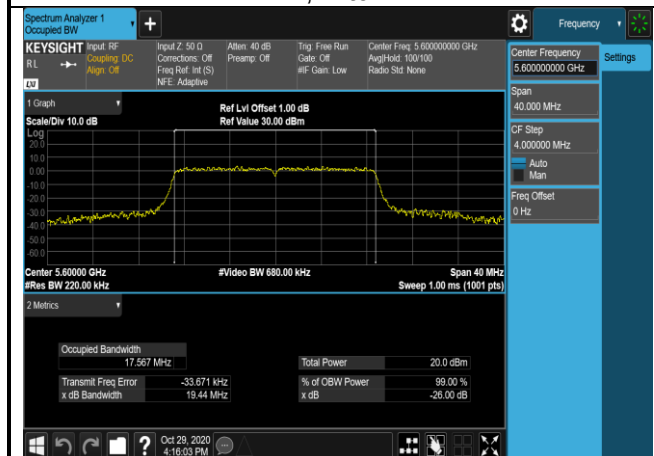




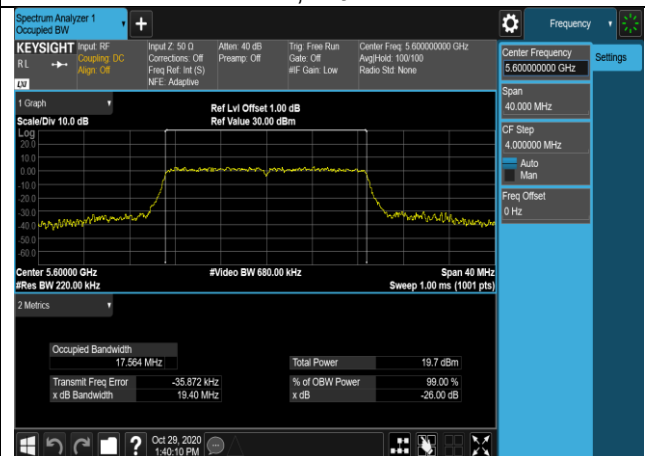
U-NII-2c,802.11n(HT20),5600MHz
,Ant0



U-NII-2c,802.11n(HT20),5600MHz
,Ant1



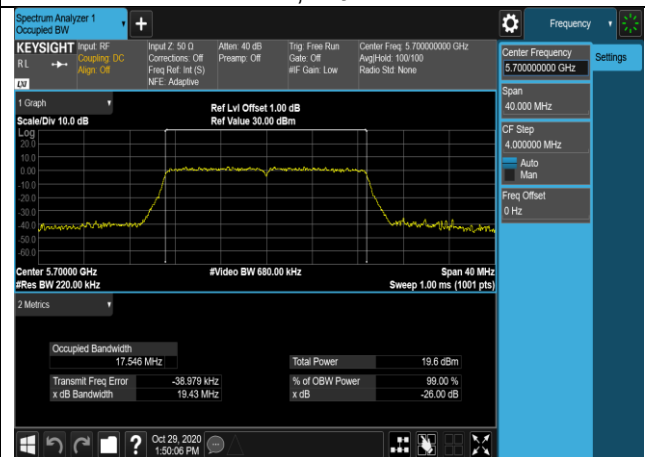
U-NII-2c,802.11n(HT20),5700MHz
,Ant0



U-NII-2c,802.11n(HT20),5700MHz
,Ant1



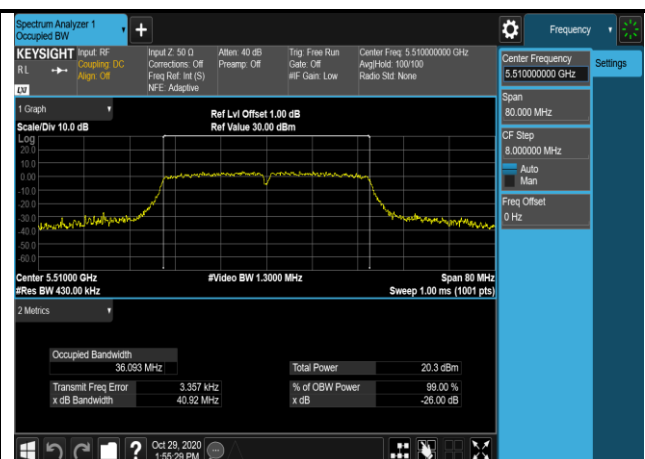
U-NII-2c,802.11n(HT40),5510MHz
,Ant0



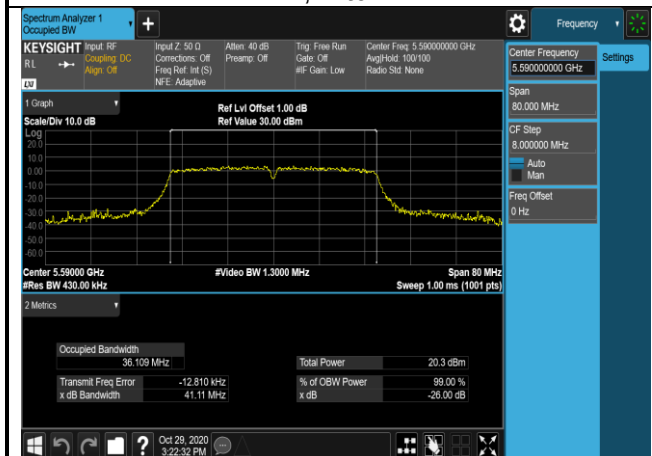
U-NII-2c,802.11n(HT40),5510MHz
,Ant1



U-NII-2c,802.11n(HT40),5590MHz
,Ant0



U-NII-2c,802.11n(HT40),5590MHz
,Ant1



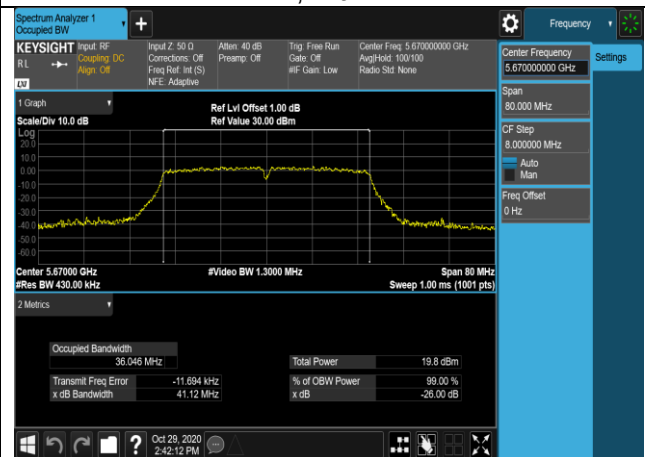
U-NII-2c,802.11n(HT40),5670MHz
,Ant0



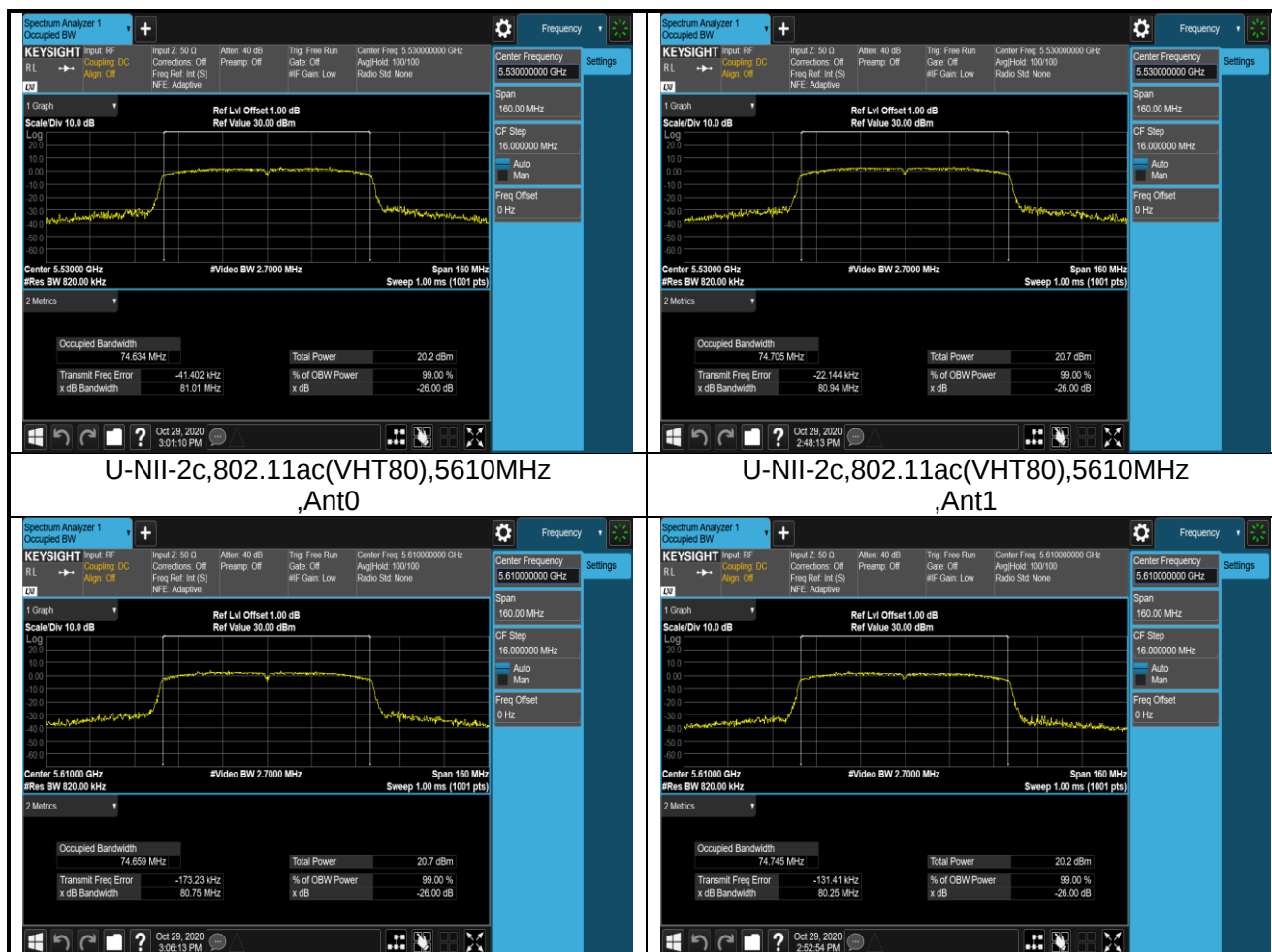
U-NII-2c,802.11n(HT40),5670MHz
,Ant1



U-NII-2c,802.11ac(VHT80),5530MHz
,Ant0



U-NII-2c,802.11ac(VHT80),5530MHz
,Ant1



3. Duty Cycle

3.1 Test Data

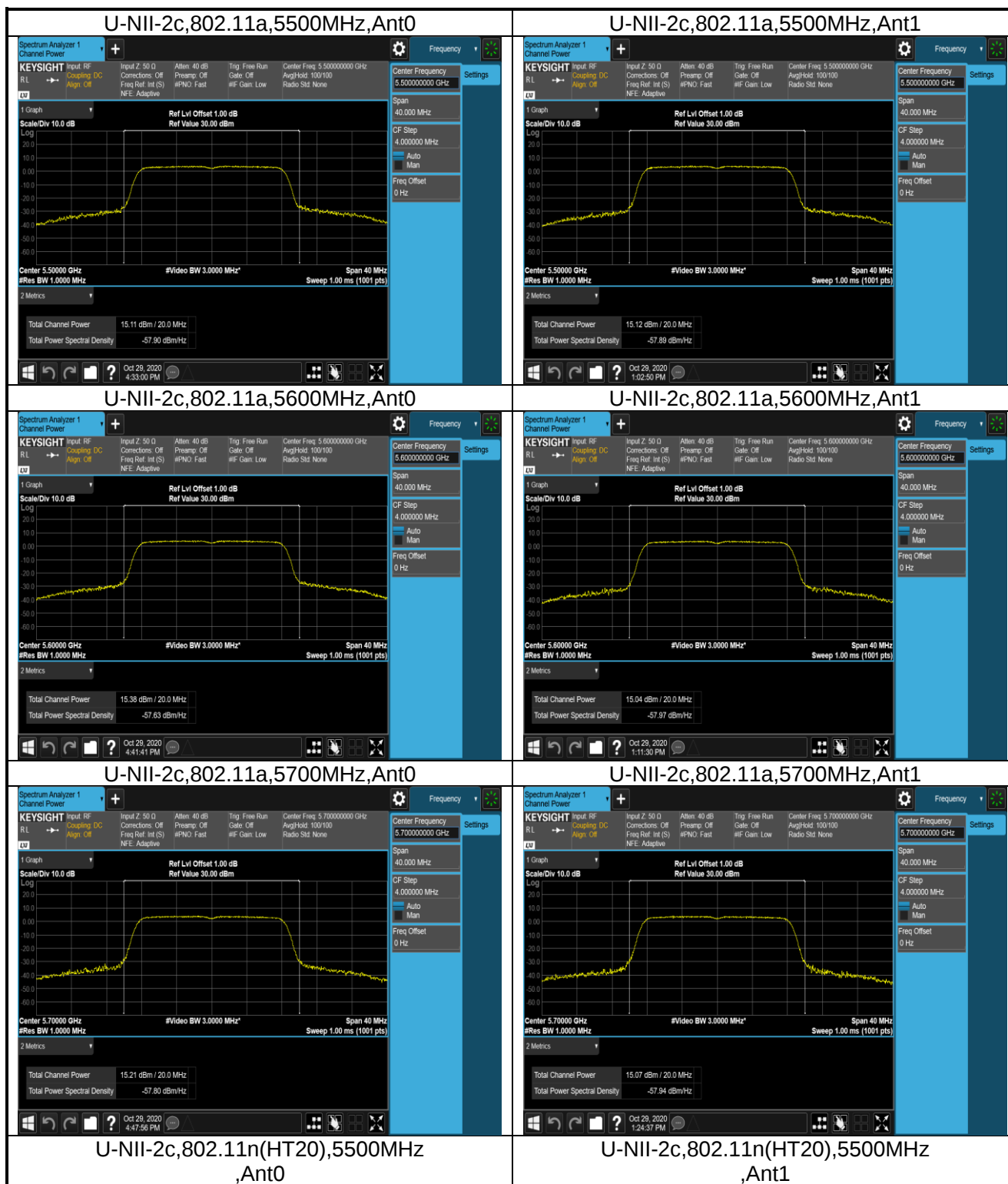
U-NII-2c Duty Cycle				
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11a	5500	Ant0	100	0
802.11a	5500	Ant1	100	0
802.11a	5600	Ant0	100	0
802.11a	5600	Ant1	100	0
802.11a	5700	Ant0	100	0
802.11a	5700	Ant1	100	0
802.11n (HT20)	5500	Ant0	100	0
802.11n (HT20)	5500	Ant1	100	0
802.11n (HT20)	5600	Ant0	100	0
802.11n (HT20)	5600	Ant1	100	0
802.11n (HT20)	5700	Ant0	100	0
802.11n (HT20)	5700	Ant1	100	0
802.11n (HT40)	5510	Ant0	100	0
802.11n (HT40)	5510	Ant1	100	0
802.11n (HT40)	5590	Ant0	100	0
802.11n (HT40)	5590	Ant1	100	0
802.11n (HT40)	5670	Ant0	100	0
802.11n (HT40)	5670	Ant1	100	0
802.11ac (VHT80)	5530	Ant0	100	0
802.11ac (VHT80)	5530	Ant1	100	0
802.11ac (VHT80)	5610	Ant0	100	0
802.11ac (VHT80)	5610	Ant1	100	0

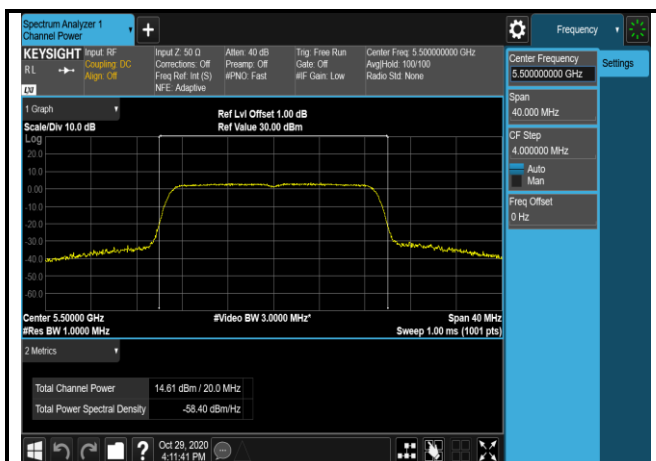
4. AVGSA Output Power

4.1 Test Data

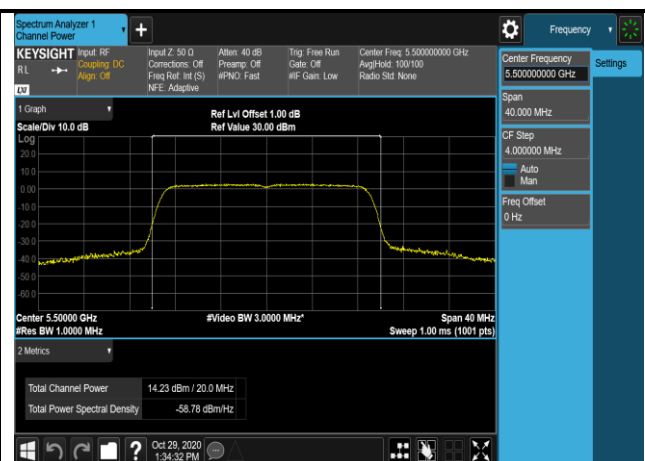
U-NII-2a AVGSA Output Power									
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Total Power (dBm)	FCC Limit (dBm)	IC Limit (dBm)	EIRP (dBm)	Result
802.11a	5500	Ant0	0.00	15.11	15.11	24	23	16.92	Pass
802.11a	5500	Ant1	0.00	15.12	15.12	24	23	18.19	Pass
802.11a	5600	Ant0	0.00	15.38	15.38	24	23	17.19	Pass
802.11a	5600	Ant1	0.00	15.04	15.04	24	23	18.11	Pass
802.11a	5700	Ant0	0.00	15.21	15.21	24	23	17.02	Pass
802.11a	5700	Ant1	0.00	15.07	15.07	24	23	18.14	Pass
802.11n (HT20)	5500	Ant0	0.00	14.61	17.43	24	23	19.92	Pass
802.11n (HT20)	5500	Ant1	0.00	14.23					
802.11n (HT20)	5600	Ant0	0.00	14.52	17.41	24	23	19.90	Pass
802.11n (HT20)	5600	Ant1	0.00	14.28					
802.11n (HT20)	5700	Ant0	0.00	14.32	17.21	24	23	19.69	Pass
802.11n (HT20)	5700	Ant1	0.00	14.07					
802.11n (HT40)	5510	Ant0	0.00	14.59	17.49	24	24	19.97	Pass
802.11n (HT40)	5510	Ant1	0.00	14.36					
802.11n (HT40)	5590	Ant0	0.00	14.40	17.34	24	24	19.83	Pass
802.11n (HT40)	5590	Ant1	0.00	14.26					
802.11n (HT40)	5670	Ant0	0.00	14.13	17.05	24	24	19.54	Pass
802.11n (HT40)	5670	Ant1	0.00	13.95					
802.11ac (VHT80)	5530	Ant0	0.00	13.25	16.55	24	24	19.04	Pass
802.11ac (VHT80)	5530	Ant1	0.00	13.81					
802.11ac (VHT80)	5610	Ant0	0.00	13.76	16.52	24	24	19.00	Pass
802.11ac (VHT80)	5610	Ant1	0.00	13.24					

4.2 Test Plots

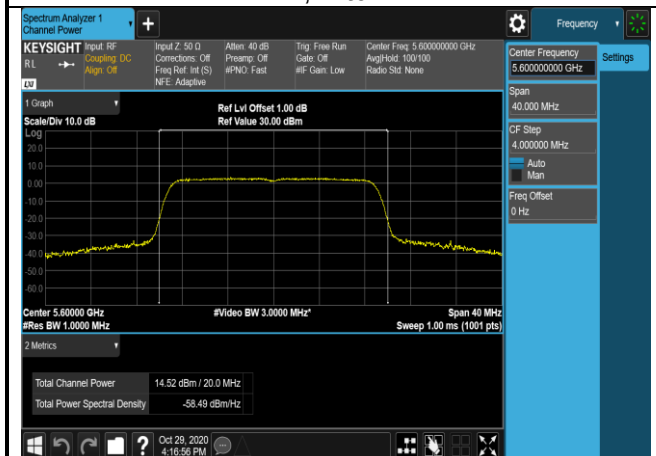




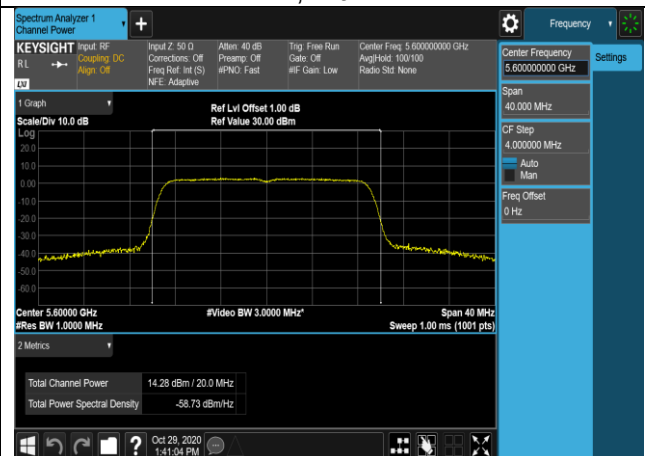
U-NII-2c,802.11n(HT20),5600MHz
,Ant0



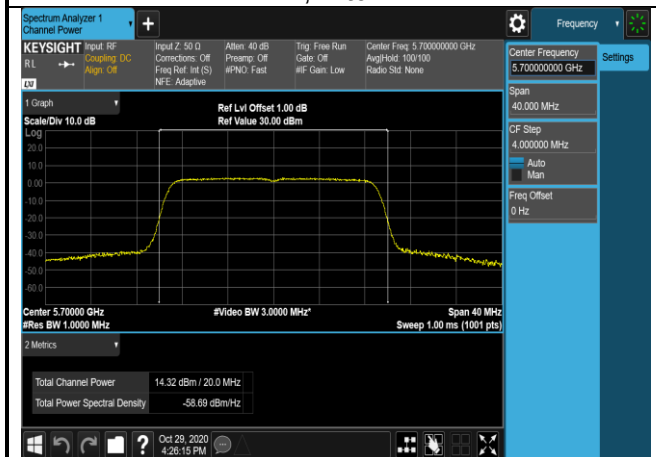
U-NII-2c,802.11n(HT20),5600MHz
,Ant1



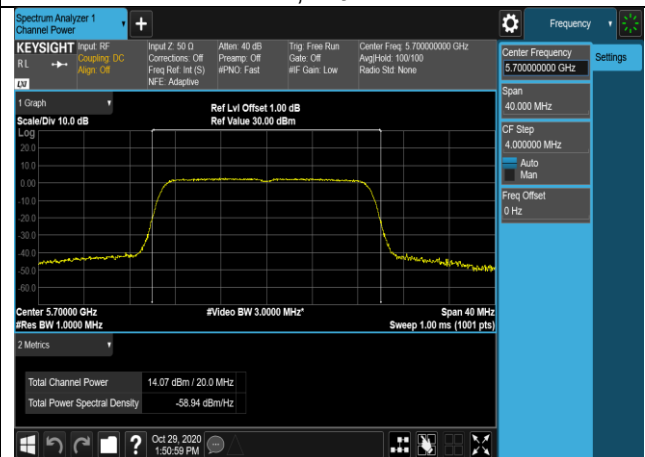
U-NII-2c,802.11n(HT20),5700MHz
,Ant0



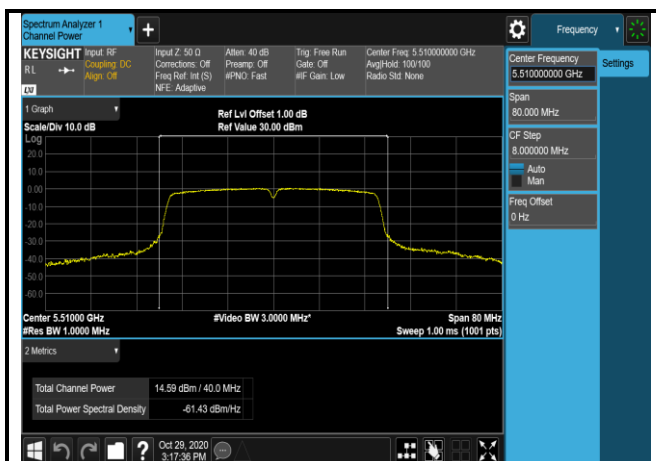
U-NII-2c,802.11n(HT20),5700MHz
,Ant1



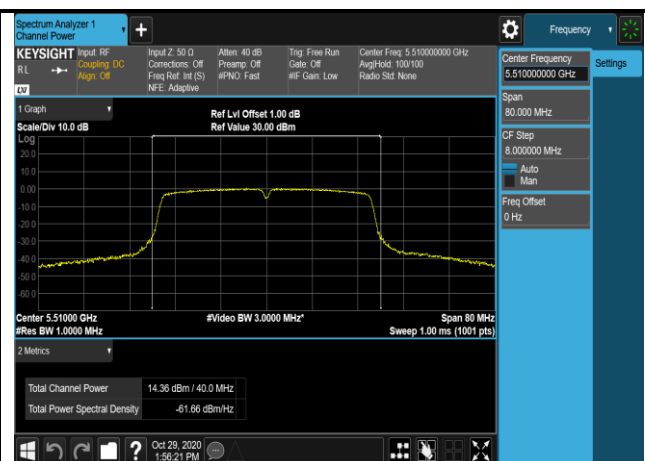
U-NII-2c,802.11n(HT40),5510MHz
,Ant0



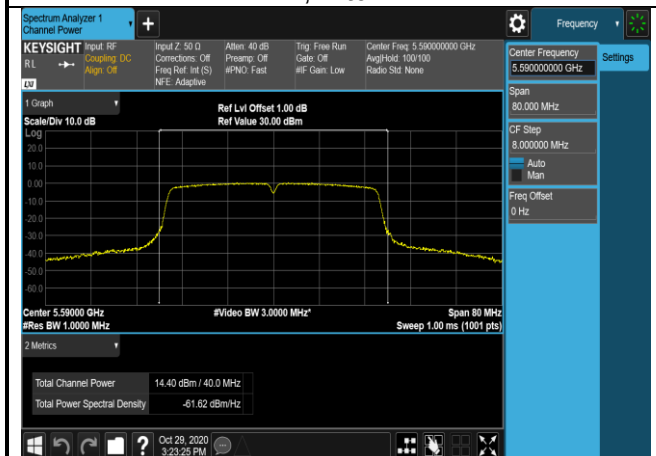
U-NII-2c,802.11n(HT40),5510MHz
,Ant1



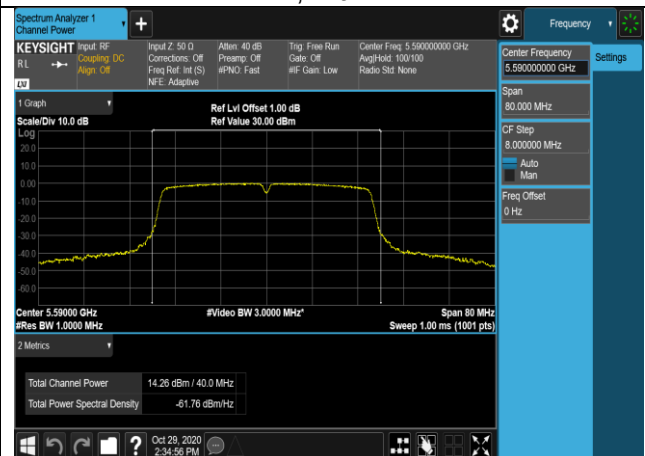
U-NII-2c,802.11n(HT40),5590MHz
,Ant0



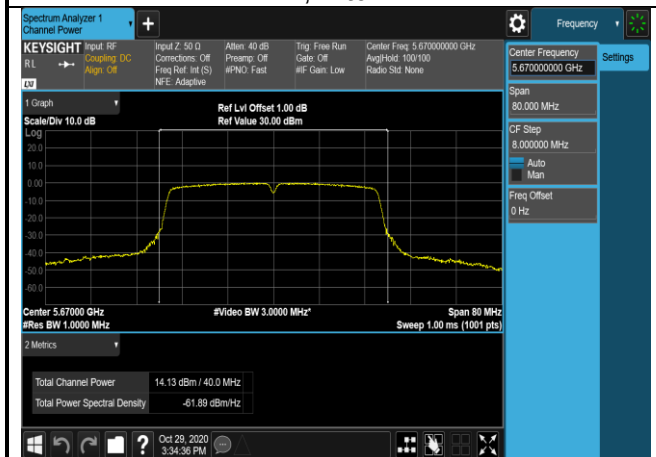
U-NII-2c,802.11n(HT40),5590MHz
,Ant1



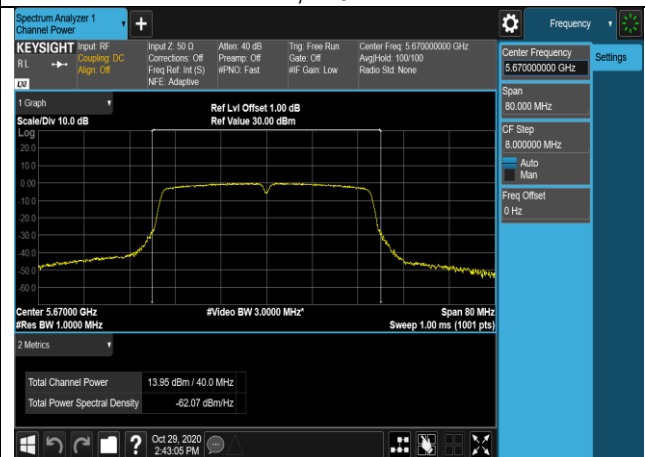
U-NII-2c,802.11n(HT40),5670MHz
,Ant0



U-NII-2c,802.11n(HT40),5670MHz
,Ant1



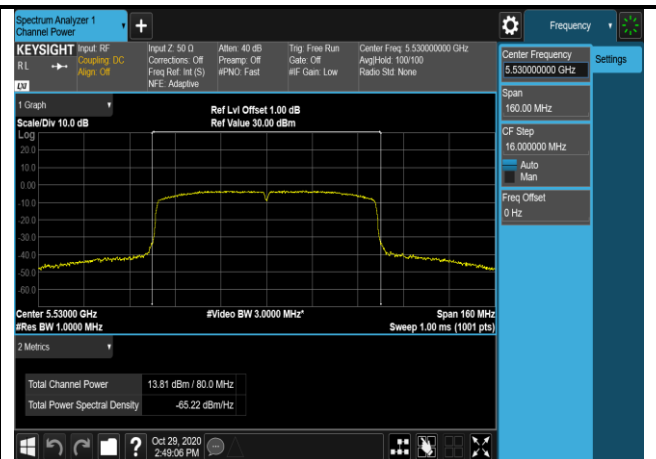
U-NII-2c,802.11ac(VHT80),5530MHz
,Ant0



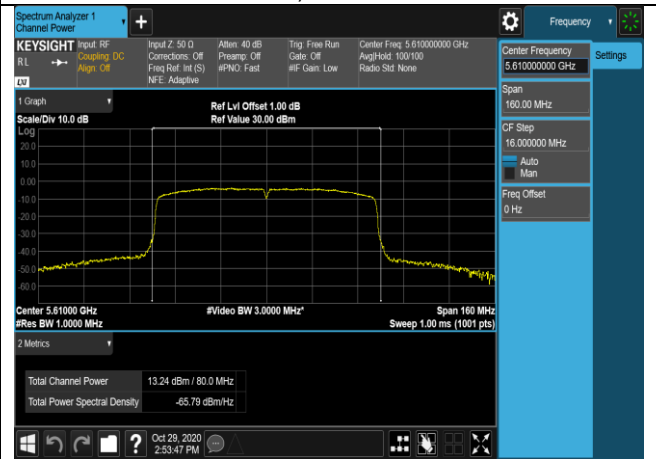
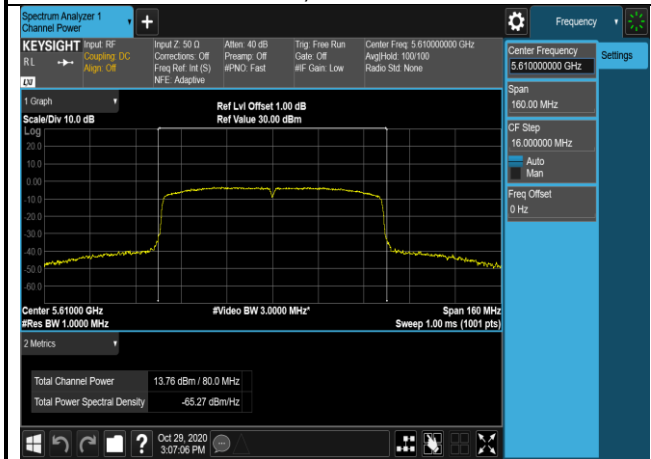
U-NII-2c,802.11ac(VHT80),5530MHz
,Ant1



U-NII-2c,802.11ac(VHT80),5610MHz
,Ant0



U-NII-2c,802.11ac(VHT80),5610MHz
,Ant1



5. AVGSA Power Spectral Density

5.1 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	5500	Ant0	0.00	3.872	3.872	1000	11	Pass
802.11a	5500	Ant1	0.00	4.088	4.088	1000	11	Pass
802.11a	5600	Ant0	0.00	4.193	4.193	1000	11	Pass
802.11a	5600	Ant1	0.00	3.951	3.951	1000	11	Pass
802.11a	5700	Ant0	0.00	3.967	3.967	1000	11	Pass
802.11a	5700	Ant1	0.00	4.085	4.085	1000	11	Pass
802.11n (HT20)	5500	Ant0	0.00	3.241	5.94	1000	11	Pass
802.11n (HT20)	5500	Ant1	0.00	2.594				
802.11n (HT20)	5600	Ant0	0.00	3.433	6.22	1000	11	Pass
802.11n (HT20)	5600	Ant1	0.00	2.964				
802.11n (HT20)	5700	Ant0	0.00	2.980	5.88	1000	11	Pass
802.11n (HT20)	5700	Ant1	0.00	2.760				
802.11n (HT40)	5510	Ant0	0.00	0.655	3.45	1000	11	Pass
802.11n (HT40)	5510	Ant1	0.00	0.211				
802.11n (HT40)	5590	Ant0	0.00	0.342	3.34	1000	11	Pass
802.11n (HT40)	5590	Ant1	0.00	0.323				
802.11n (HT40)	5670	Ant0	0.00	0.195	3.20	1000	11	Pass
802.11n (HT40)	5670	Ant1	0.00	0.179				
802.11ac (VHT80)	5530	Ant0	0.00	-3.925	-0.37	1000	11	Pass
802.11ac (VHT80)	5530	Ant1	0.00	-2.894				
802.11ac (VHT80)	5610	Ant0	0.00	-3.178	-0.38	1000	11	Pass
802.11ac (VHT80)	5610	Ant1	0.00	-3.605				