

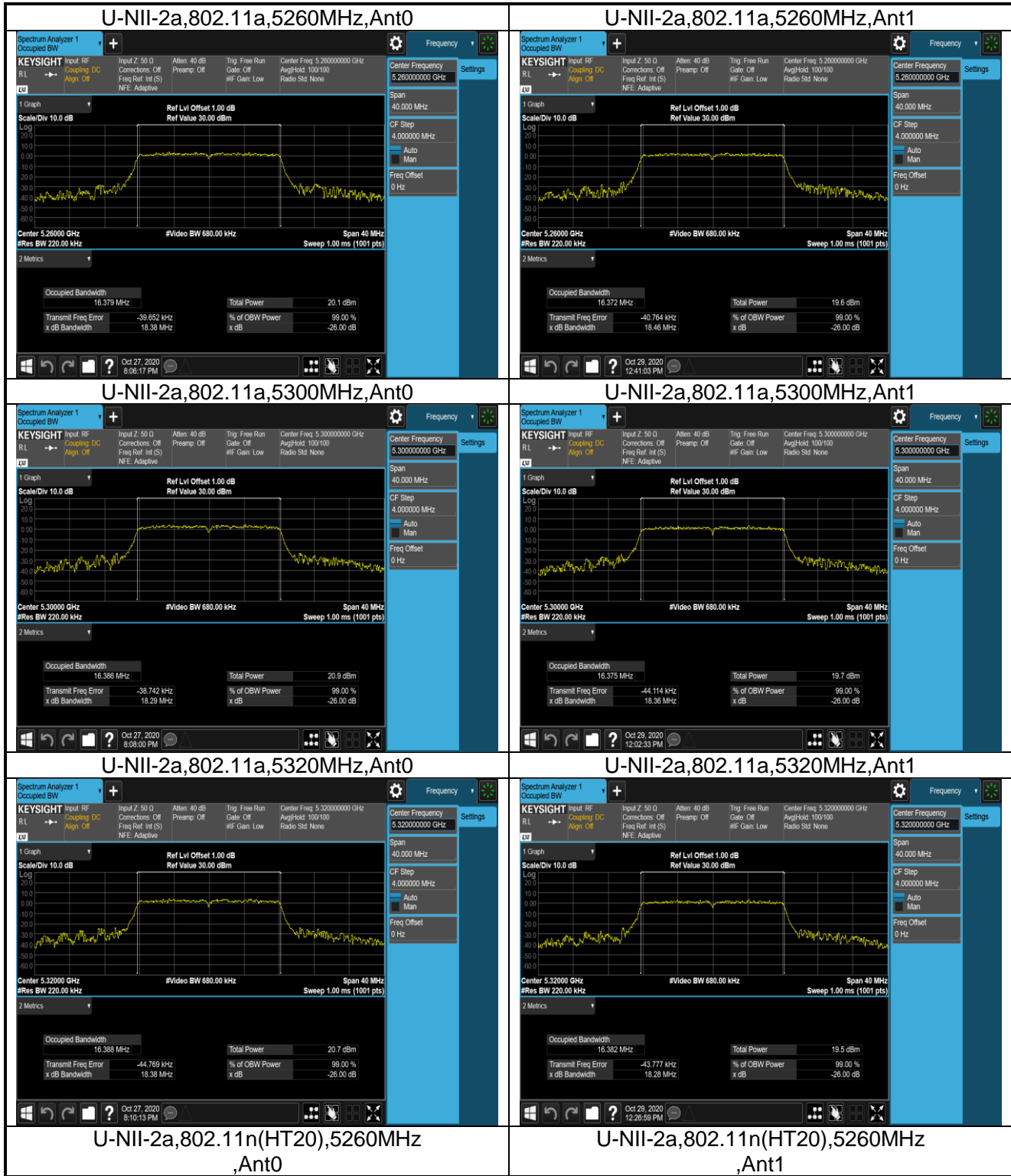
Appendix A: Test results

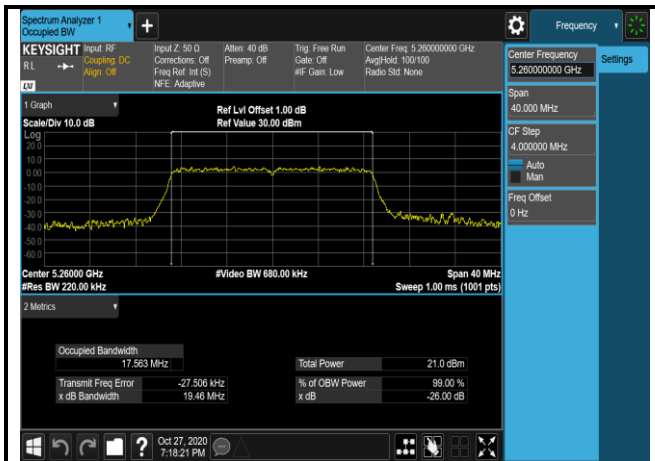
1. Occupied N dB Bandwidth

1.1 Test Data

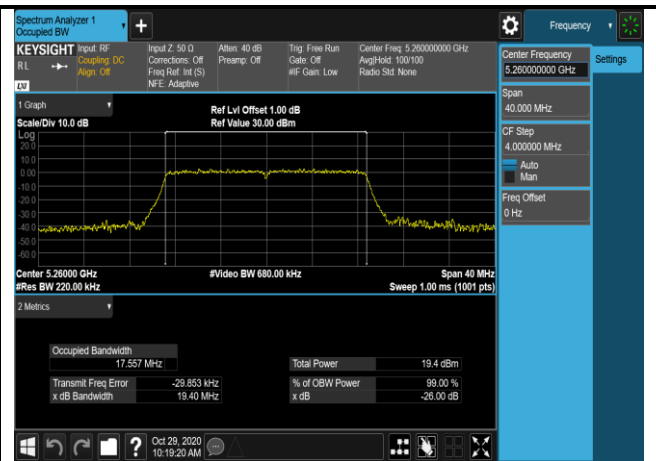
U-NII-2a Occupied N dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11a	5260	Ant0	18.38	Pass
802.11a	5260	Ant1	18.46	Pass
802.11a	5300	Ant0	18.29	Pass
802.11a	5300	Ant1	18.37	Pass
802.11a	5320	Ant0	18.38	Pass
802.11a	5320	Ant1	18.28	Pass
802.11n (HT20)	5260	Ant0	19.46	Pass
802.11n (HT20)	5260	Ant1	19.40	Pass
802.11n (HT20)	5300	Ant0	19.44	Pass
802.11n (HT20)	5300	Ant1	19.41	Pass
802.11n (HT20)	5320	Ant0	19.44	Pass
802.11n (HT20)	5320	Ant1	19.43	Pass
802.11n (HT40)	5270	Ant0	40.88	Pass
802.11n (HT40)	5270	Ant1	41.17	Pass
802.11n (HT40)	5310	Ant0	41.06	Pass
802.11n (HT40)	5310	Ant1	40.75	Pass
802.11ac (VHT80)	5290	Ant0	80.71	Pass
802.11ac (VHT80)	5290	Ant1	80.55	Pass

1.2 Test Plots

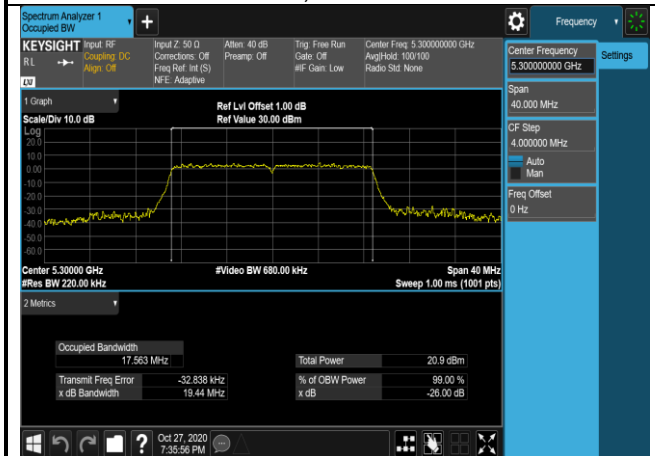




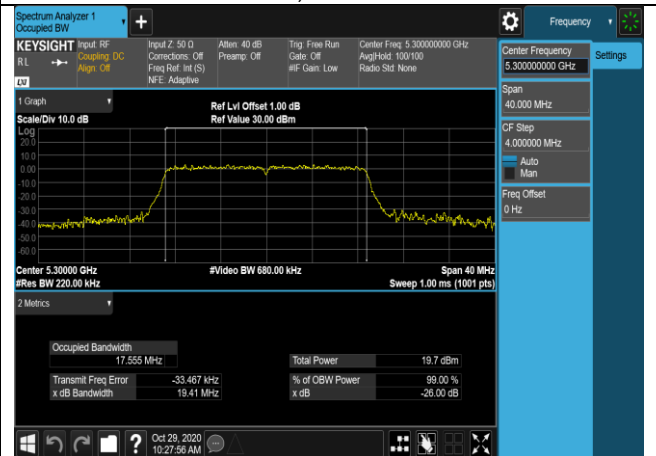
U-NII-2a,802.11n(HT20),5300MHz
,Ant0



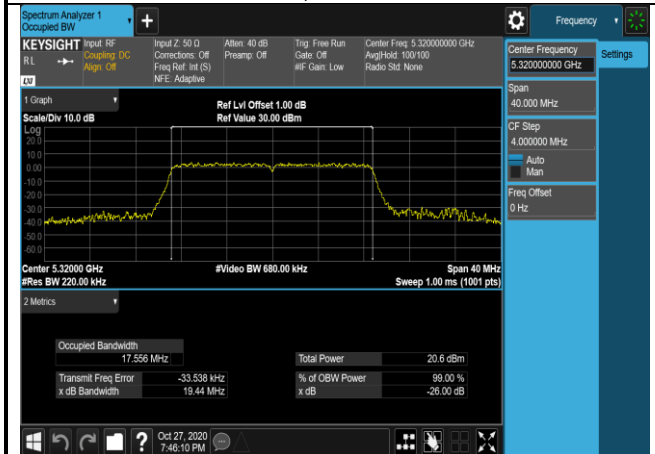
U-NII-2a,802.11n(HT20),5300MHz
,Ant1



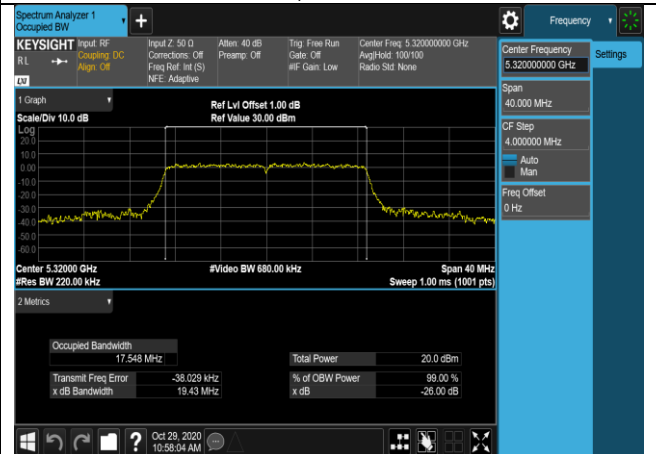
U-NII-2a,802.11n(HT20),5320MHz
,Ant0



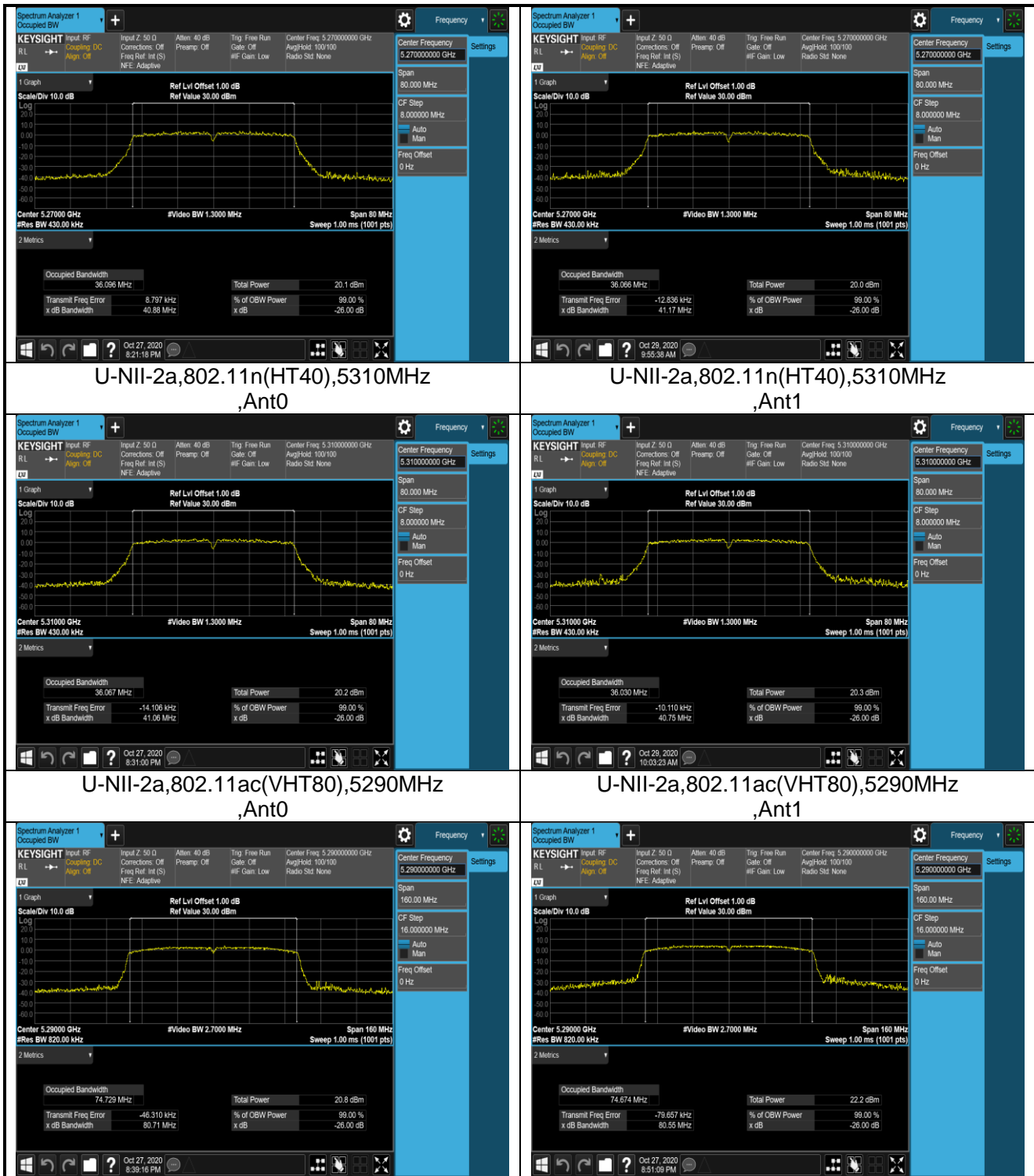
U-NII-2a,802.11n(HT20),5320MHz
,Ant1



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



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

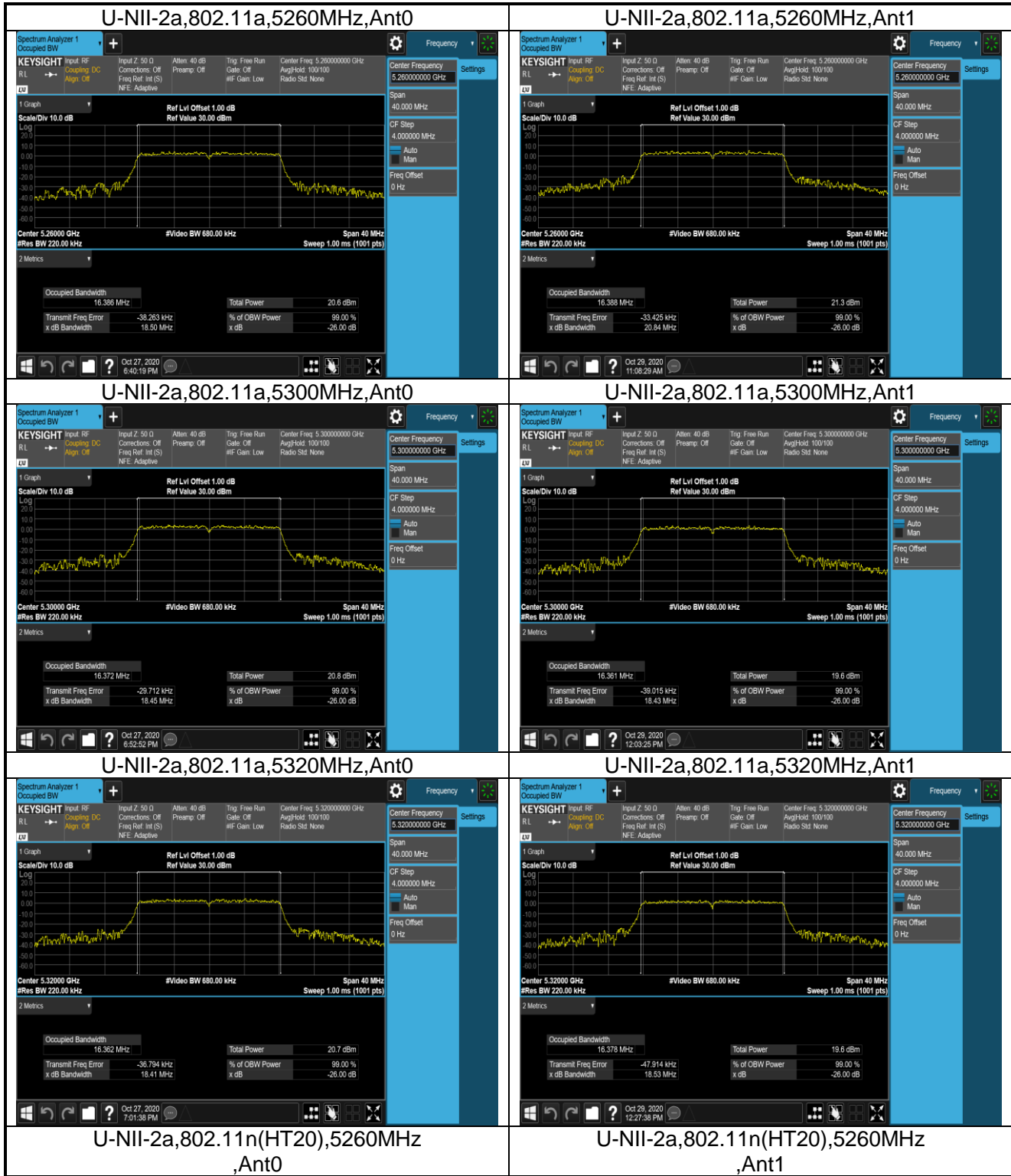


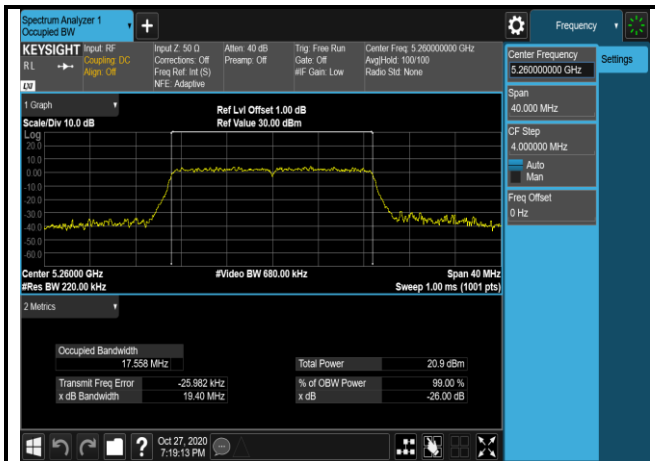
2. 99% Occupied Bandwidth

2.1 Test Data

U-NII-2a 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11a	5260	Ant0	16.386	Pass
802.11a	5260	Ant1	16.388	Pass
802.11a	5300	Ant0	16.372	Pass
802.11a	5300	Ant1	16.361	Pass
802.11a	5320	Ant0	16.362	Pass
802.11a	5320	Ant1	16.378	Pass
802.11n (HT20)	5260	Ant0	17.558	Pass
802.11n (HT20)	5260	Ant1	17.557	Pass
802.11n (HT20)	5300	Ant0	17.559	Pass
802.11n (HT20)	5300	Ant1	17.538	Pass
802.11n (HT20)	5320	Ant0	17.561	Pass
802.11n (HT20)	5320	Ant1	17.558	Pass
802.11n (HT40)	5270	Ant0	36.056	Pass
802.11n (HT40)	5270	Ant1	36.057	Pass
802.11n (HT40)	5310	Ant0	36.047	Pass
802.11n (HT40)	5310	Ant1	36.061	Pass
802.11ac (VHT80)	5290	Ant0	74.568	Pass
802.11ac (VHT80)	5290	Ant1	74.673	Pass

2.2 Test Plots

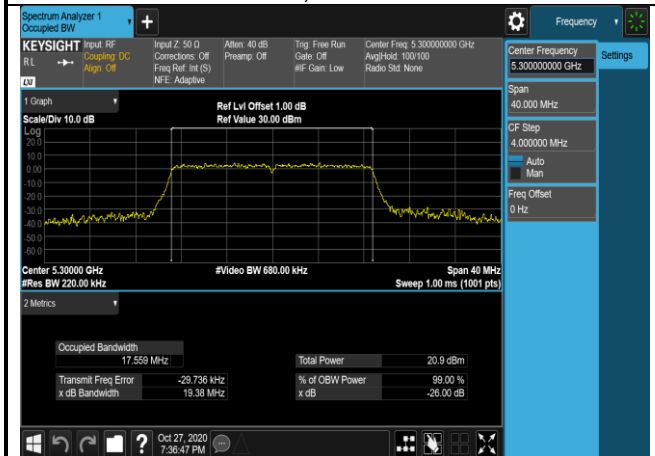




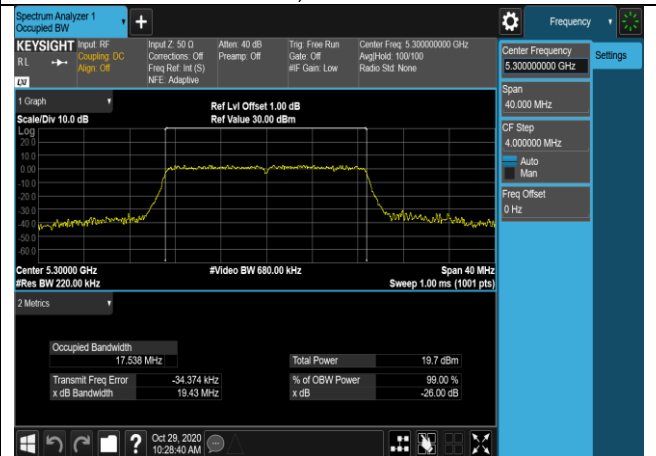
U-NII-2a,802.11n(HT20),5300MHz
,Ant0



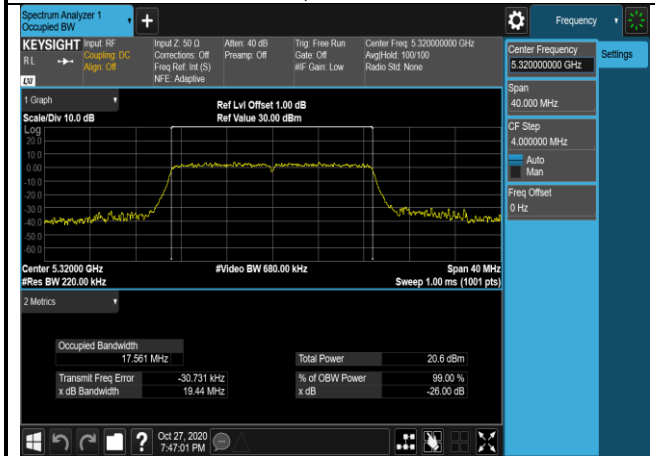
U-NII-2a,802.11n(HT20),5300MHz
,Ant1



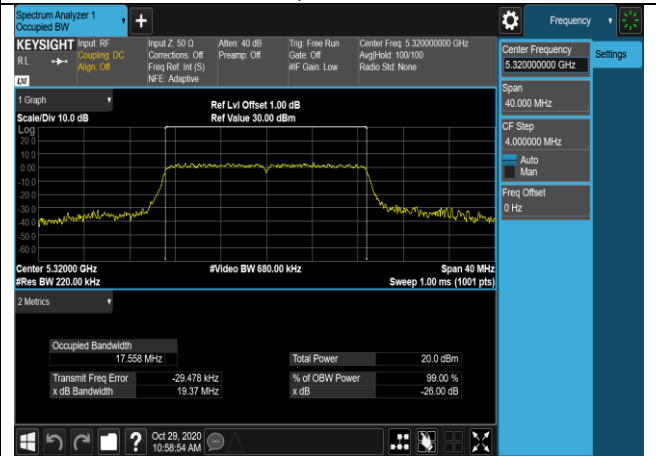
U-NII-2a,802.11n(HT20),5320MHz
,Ant0



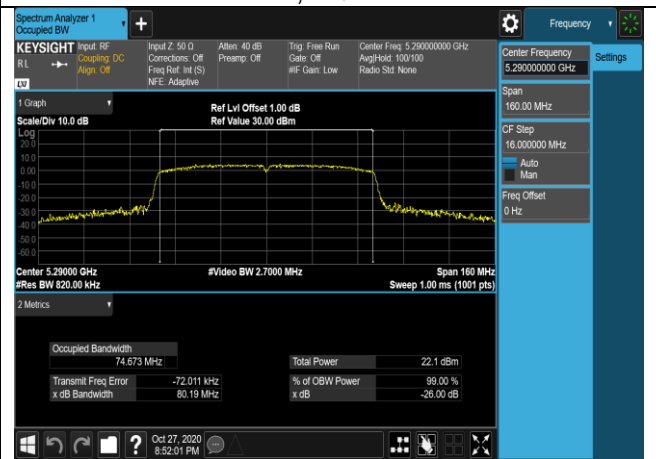
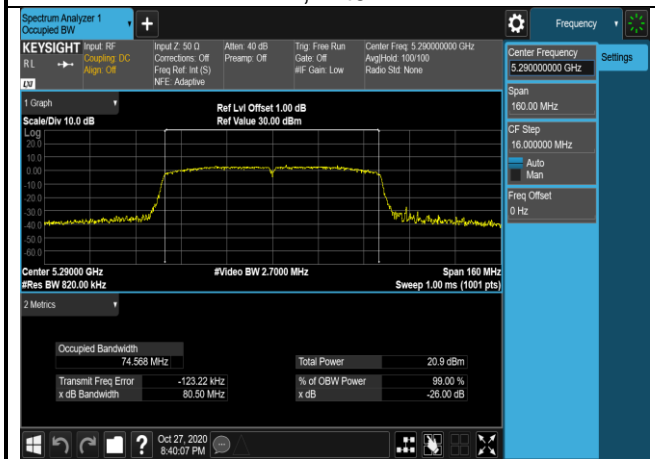
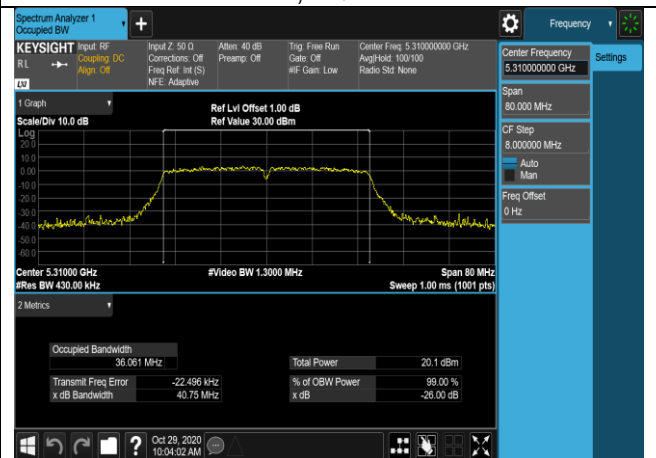
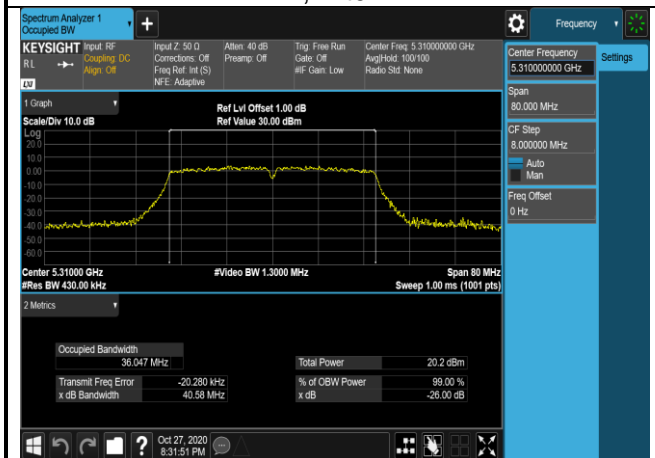
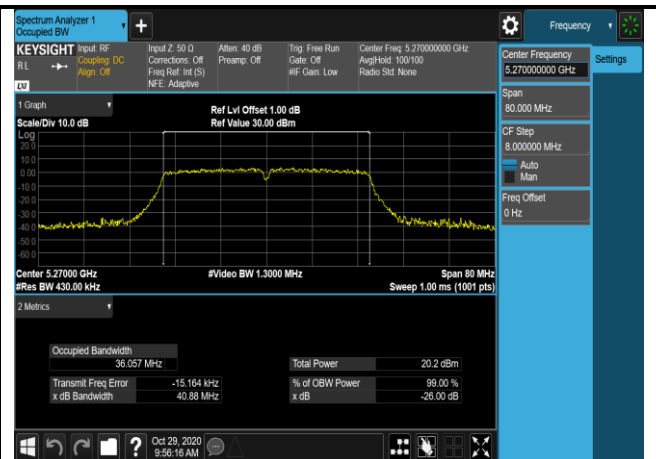
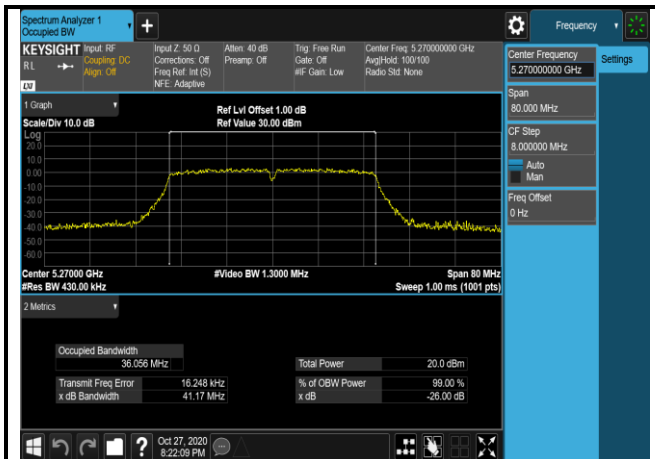
U-NII-2a,802.11n(HT20),5320MHz
,Ant1



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



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



3. Duty Cycle

3.1 Test Data

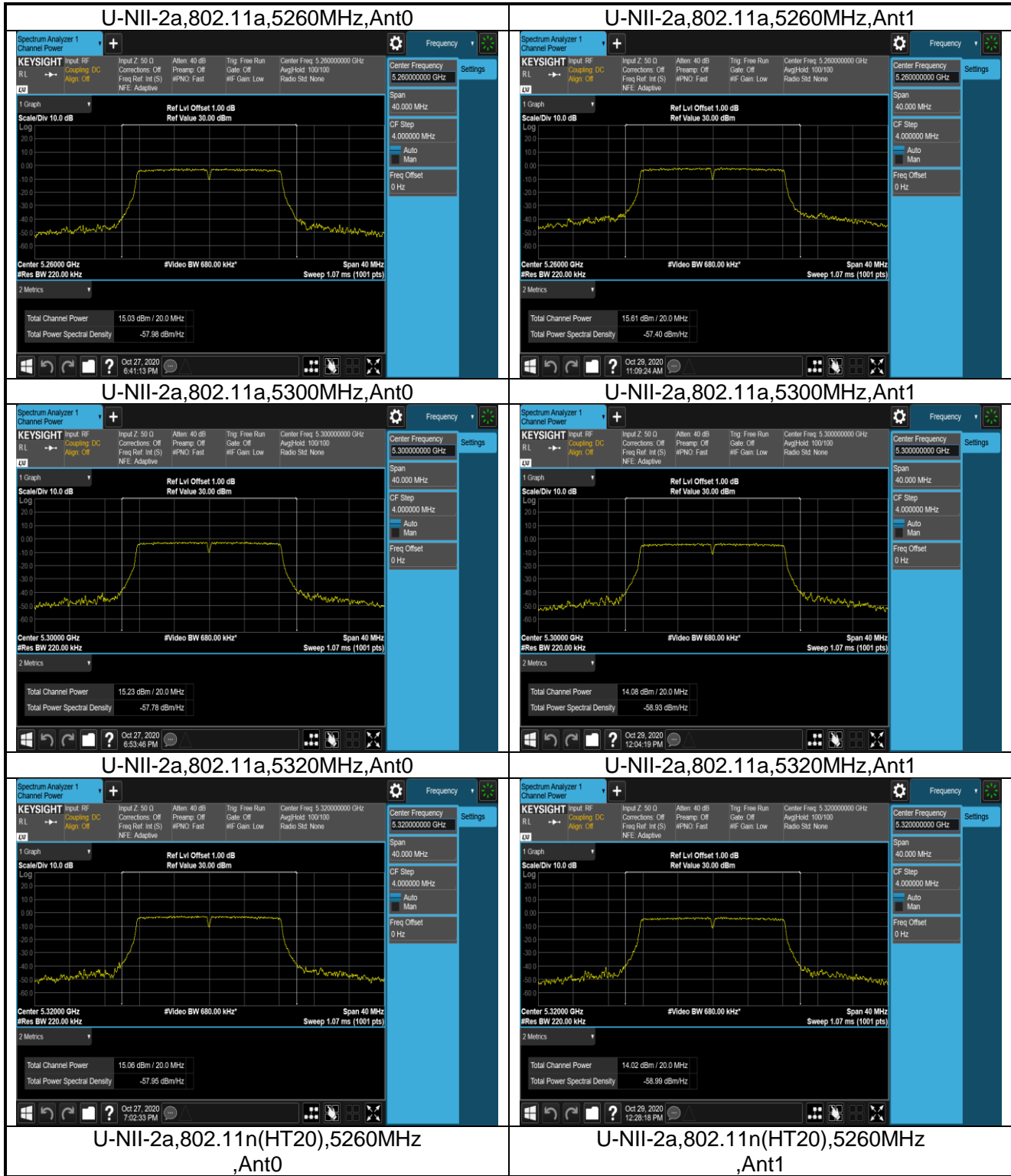
U-NII-2a Duty Cycle				
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11a	5260	Ant0	100	0
802.11a	5260	Ant1	100	0
802.11a	5300	Ant0	100	0
802.11a	5300	Ant1	100	0
802.11a	5320	Ant0	100	0
802.11a	5320	Ant1	100	0
802.11n (HT20)	5260	Ant0	100	0
802.11n (HT20)	5260	Ant1	100	0
802.11n (HT20)	5300	Ant0	100	0
802.11n (HT20)	5300	Ant1	100	0
802.11n (HT20)	5320	Ant0	100	0
802.11n (HT20)	5320	Ant1	100	0
802.11n (HT40)	5270	Ant0	100	0
802.11n (HT40)	5270	Ant1	100	0
802.11n (HT40)	5310	Ant0	100	0
802.11n (HT40)	5310	Ant1	100	0
802.11ac (VHT80)	5290	Ant0	100	0
802.11ac (VHT80)	5290	Ant1	100	0

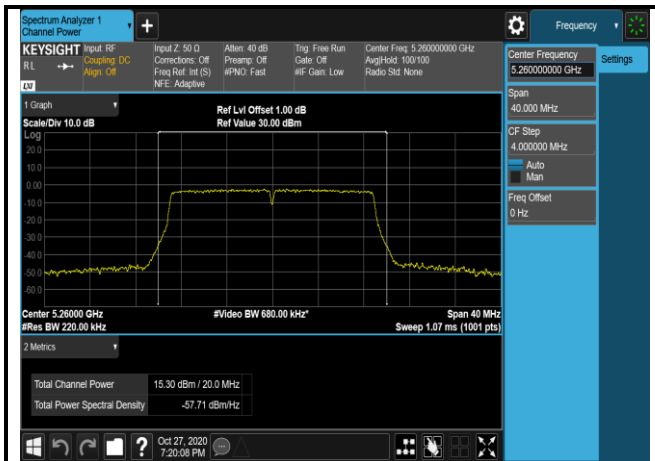
4. AVGSA Output Power

4.1 Test Data

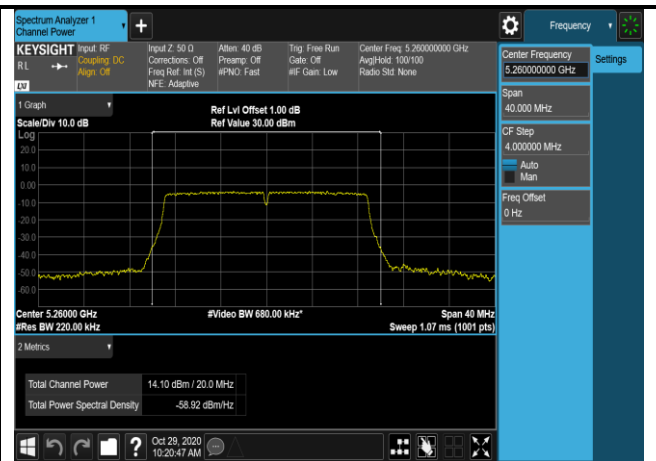
U-NII-2a AVGSA Output Power									
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Total Power (dBm)	FCC Limit (dBm)	IC Limit (dBm)	EIRP (dBm)	Result
802.11a	5260	Ant0	0.00	15.03	15.03	24	23	16.84	Pass
802.11a	5260	Ant1	0.00	15.61	15.61	24	23	18.68	Pass
802.11a	5300	Ant0	0.00	15.23	15.23	24	23	17.04	Pass
802.11a	5300	Ant1	0.00	14.08	14.08	24	23	17.15	Pass
802.11a	5320	Ant0	0.00	15.06	15.06	24	23	16.87	Pass
802.11a	5320	Ant1	0.00	14.02	14.02	24	23	17.09	Pass
802.11n (HT20)	5260	Ant0	0.00	15.30	17.75	24	23	20.24	Pass
802.11n (HT20)	5260	Ant1	0.00	14.10					
802.11n (HT20)	5300	Ant0	0.00	15.36	17.78	24	23	20.27	Pass
802.11n (HT20)	5300	Ant1	0.00	14.09					
802.11n (HT20)	5320	Ant0	0.00	15.05	17.78	24	23	20.26	Pass
802.11n (HT20)	5320	Ant1	0.00	14.46					
802.11n (HT40)	5270	Ant0	0.00	14.22	17.28	24	24	19.76	Pass
802.11n (HT40)	5270	Ant1	0.00	14.31					
802.11n (HT40)	5310	Ant0	0.00	14.28	17.28	24	24	19.76	Pass
802.11n (HT40)	5310	Ant1	0.00	14.25					
802.11ac (VHT80)	5290	Ant0	0.00	13.94	17.65	24	24	20.14	Pass
802.11ac (VHT80)	5290	Ant1	0.00	15.25					

4.2 Test Plots

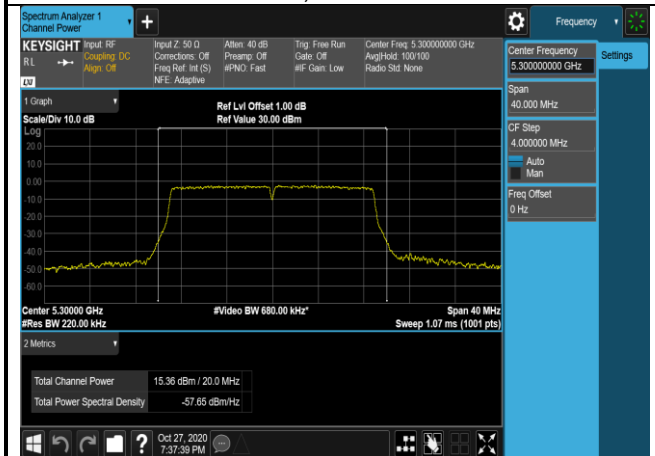




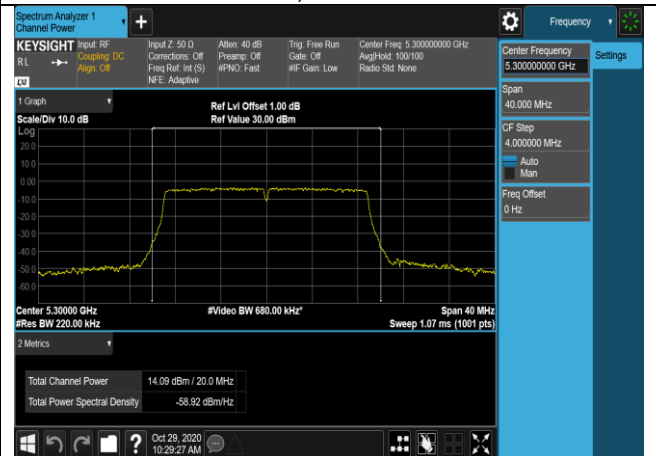
U-NII-2a,802.11n(HT20),5300MHz
,Ant0



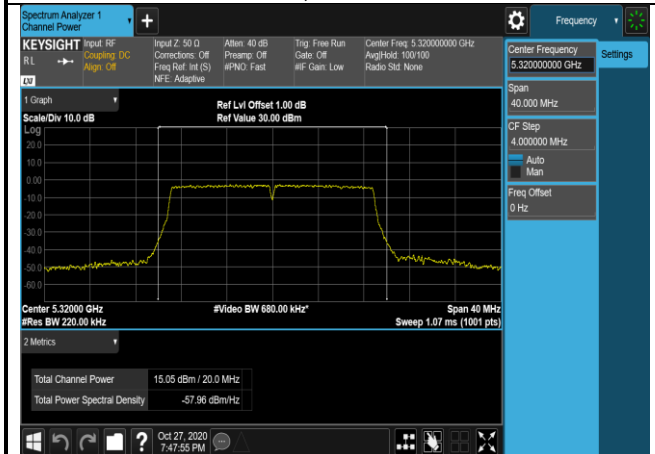
U-NII-2a,802.11n(HT20),5300MHz
,Ant1



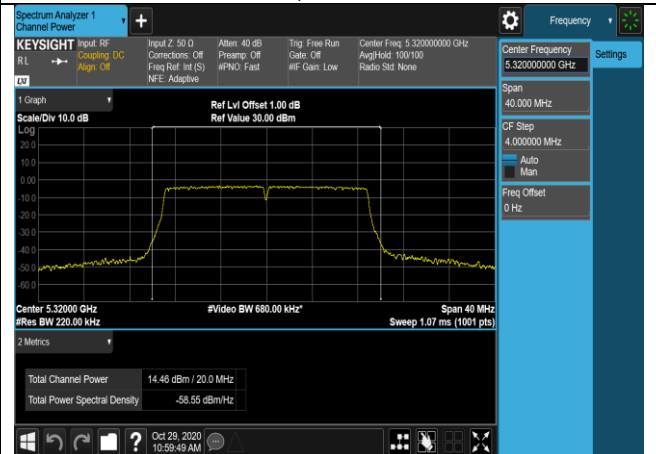
U-NII-2a,802.11n(HT20),5320MHz
,Ant0



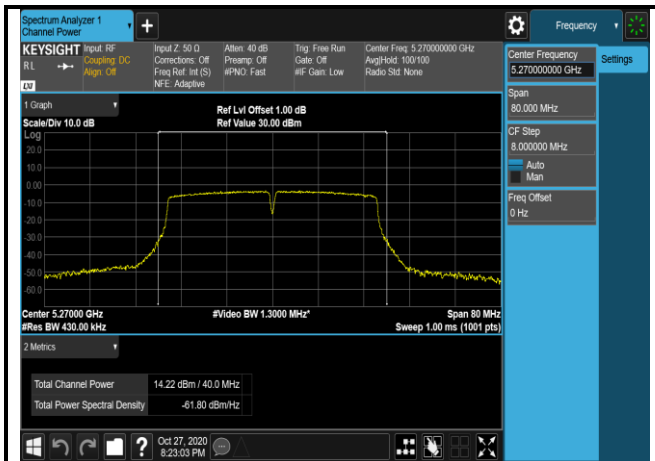
U-NII-2a,802.11n(HT20),5320MHz
,Ant1



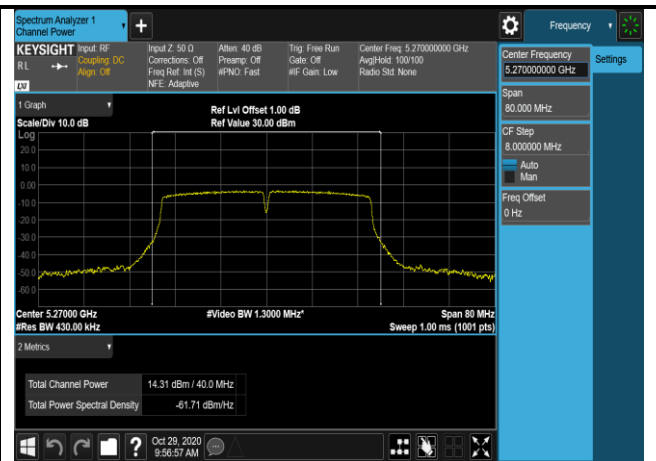
U-NII-2a,802.11n(HT40),5270MHz
,Ant0



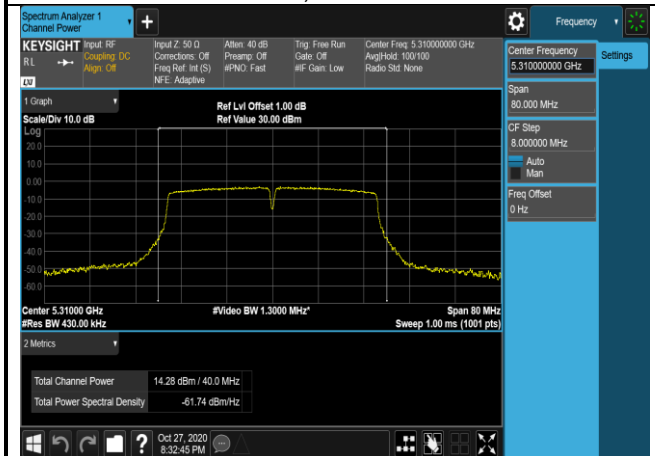
U-NII-2a,802.11n(HT40),5270MHz
,Ant1



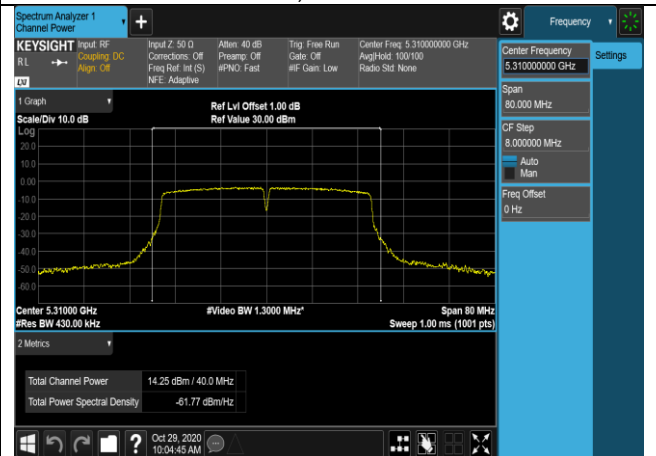
U-NII-2a,802.11n(HT40),5310MHz
,Ant0



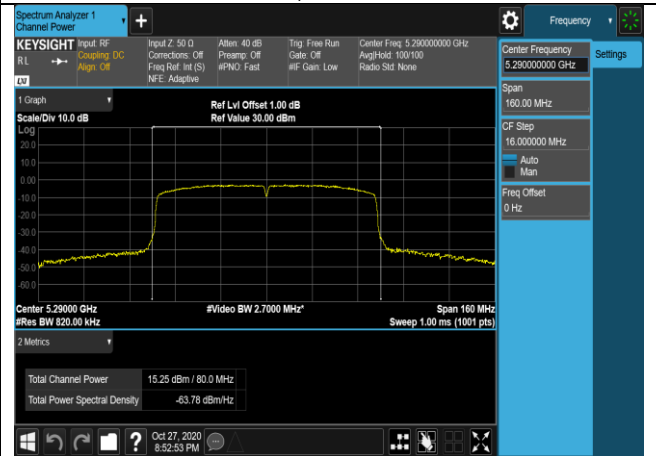
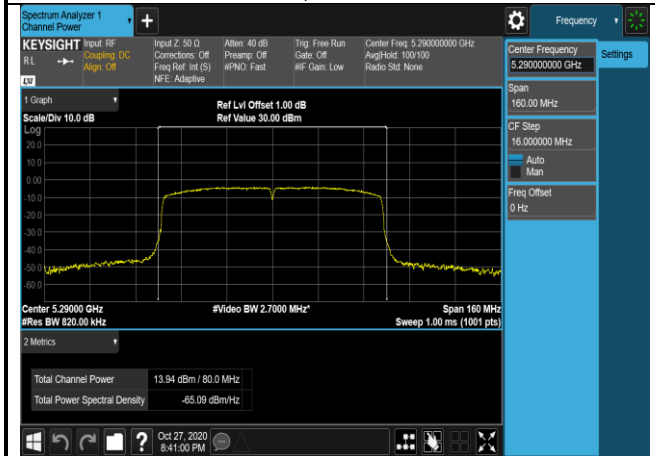
U-NII-2a,802.11n(HT40),5310MHz
,Ant1



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



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



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	5260	Ant0	0.00	3.934	3.934	1000	11	Pass
802.11a	5260	Ant1	0.00	4.436	4.436	1000	11	Pass
802.11a	5300	Ant0	0.00	4.128	4.128	1000	11	Pass
802.11a	5300	Ant1	0.00	3.067	3.067	1000	11	Pass
802.11a	5320	Ant0	0.00	3.905	3.905	1000	11	Pass
802.11a	5320	Ant1	0.00	2.788	2.788	1000	11	Pass
802.11n (HT20)	5260	Ant0	0.00	3.767	6.23	1000	11	Pass
802.11n (HT20)	5260	Ant1	0.00	2.582				
802.11n (HT20)	5300	Ant0	0.00	3.598	6.27	1000	11	Pass
802.11n (HT20)	5300	Ant1	0.00	2.887				
802.11n (HT20)	5320	Ant0	0.00	4.014	6.69	1000	11	Pass
802.11n (HT20)	5320	Ant1	0.00	3.312				
802.11n (HT40)	5270	Ant0	0.00	-0.003	3.33	1000	11	Pass
802.11n (HT40)	5270	Ant1	0.00	0.618				
802.11n (HT40)	5310	Ant0	0.00	0.438	3.59	1000	11	Pass
802.11n (HT40)	5310	Ant1	0.00	0.719				
802.11ac (VHT80)	5290	Ant0	0.00	-3.199	0.70	1000	11	Pass
802.11ac (VHT80)	5290	Ant1	0.00	-1.567				

5.2 Test Plots

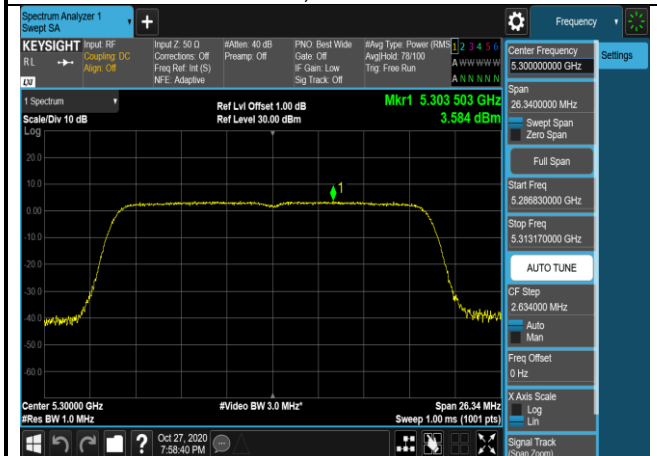




U-NII-2a,802.11n(HT20),5300MHz
,Ant0



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



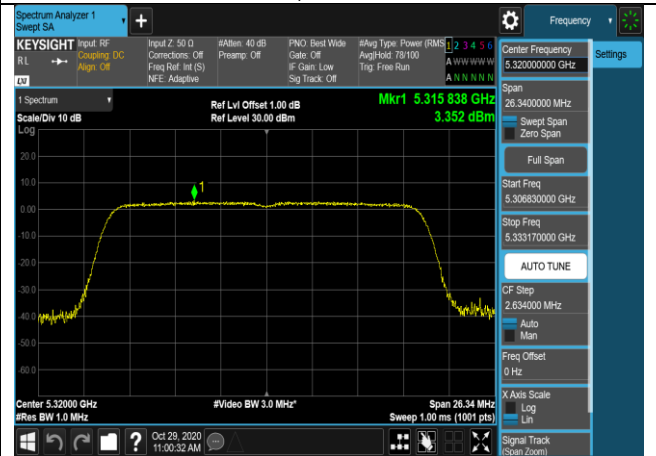
U-NII-2a,802.11n(HT20),5320MHz
,Ant0



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



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



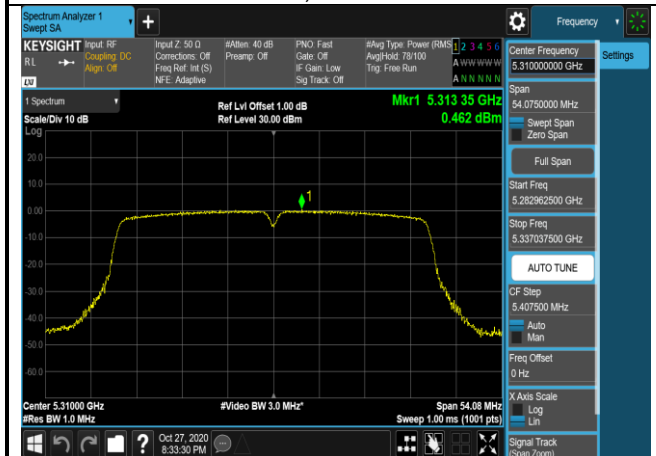
U-NII-2a,802.11n(HT40),5270MHz
,Ant1



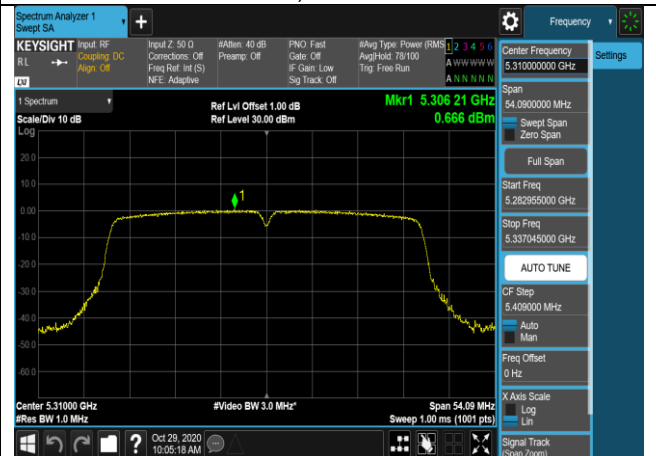
U-NII-2a,802.11n(HT40),5310MHz
,Ant0



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



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



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

