

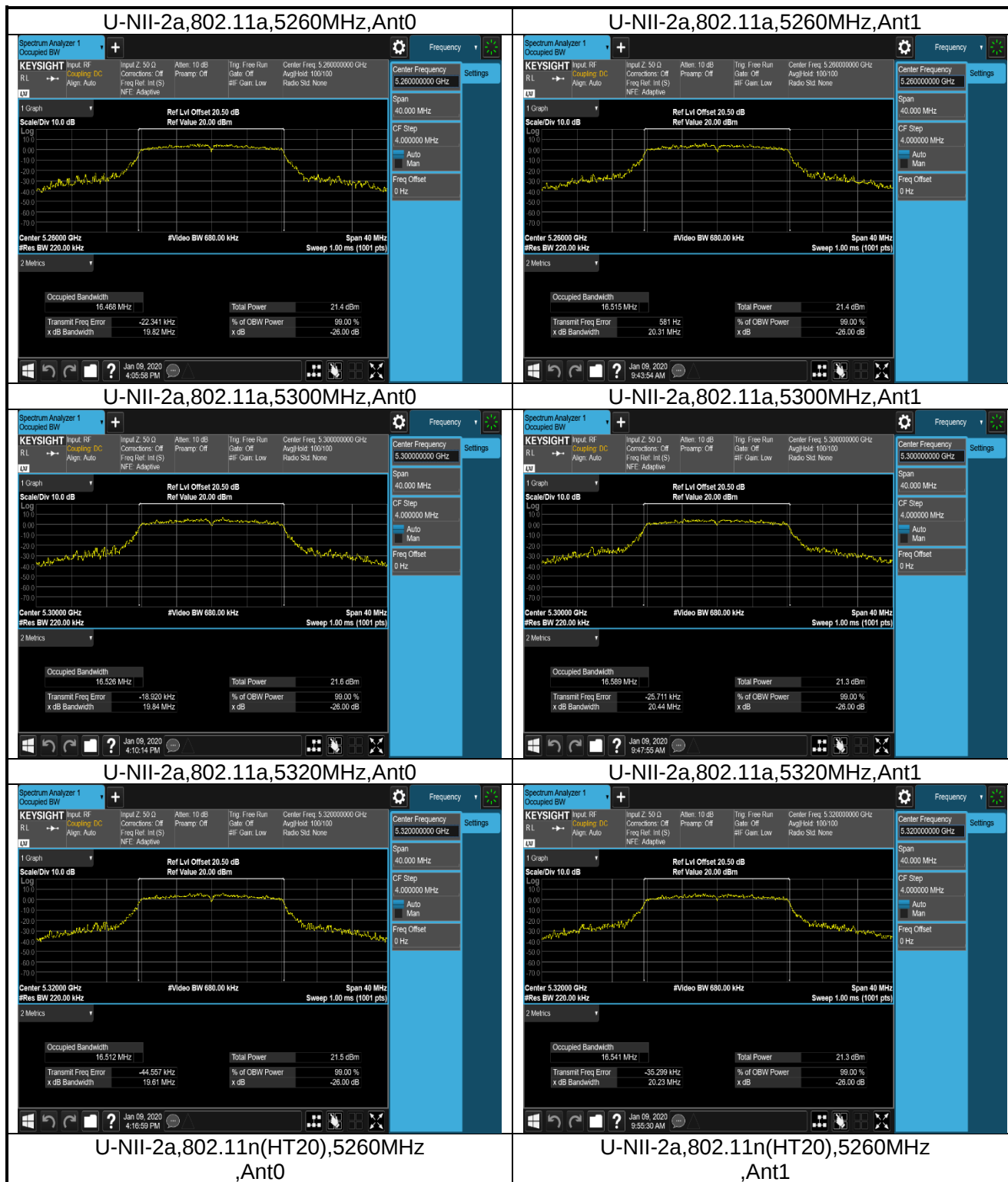
Appendix A: Test results

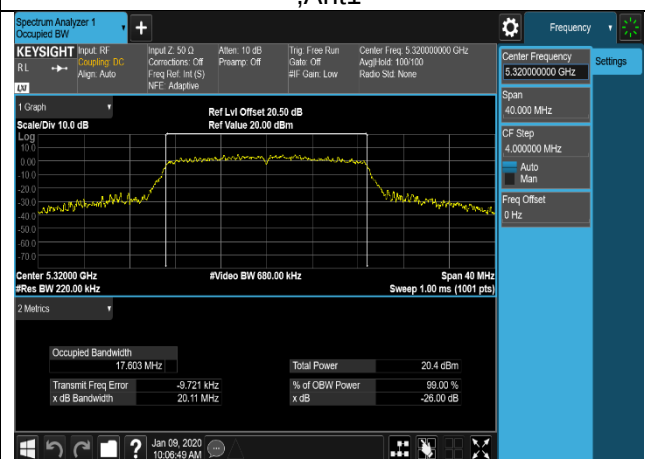
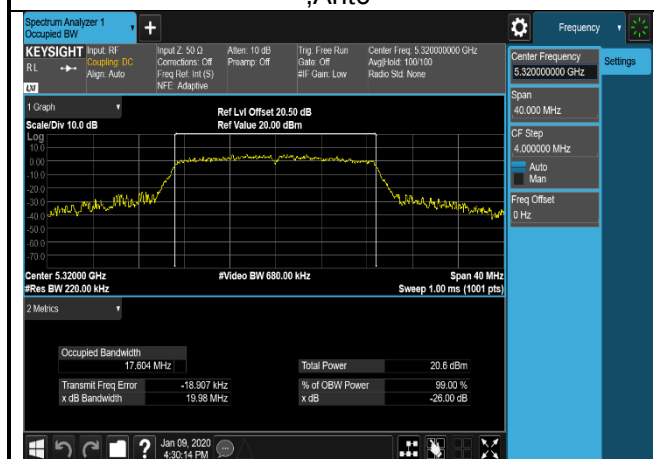
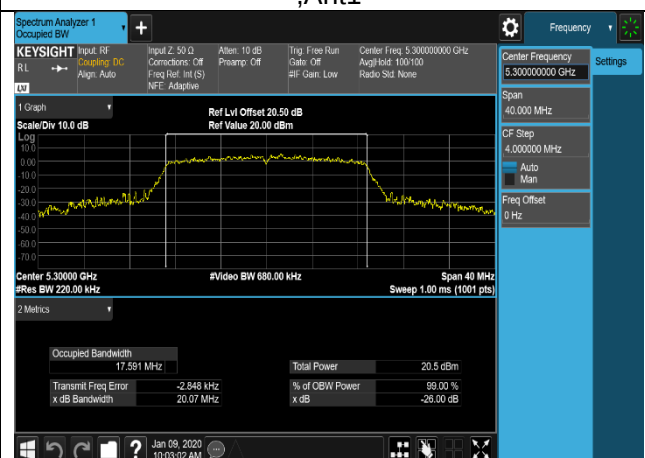
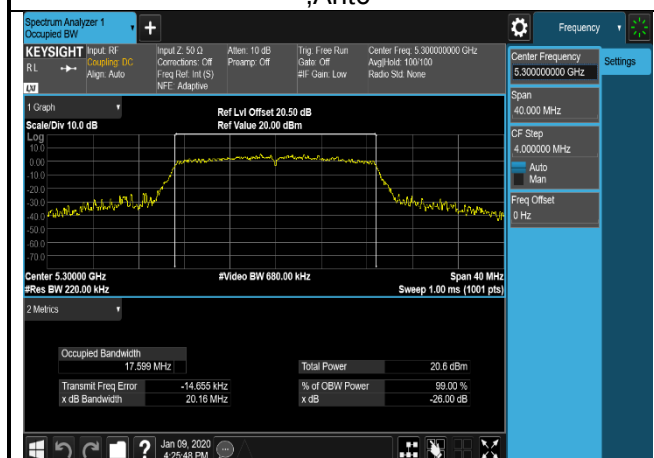
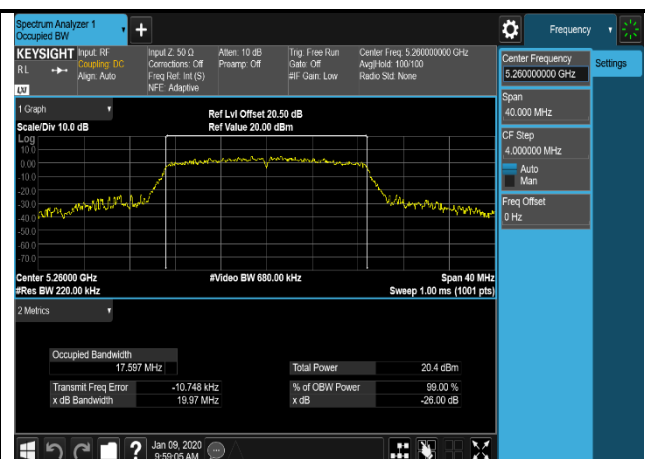
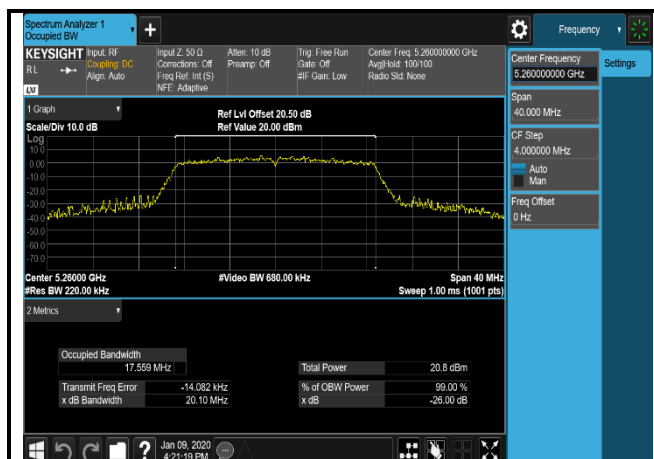
1. Occupied N dB Bandwidth

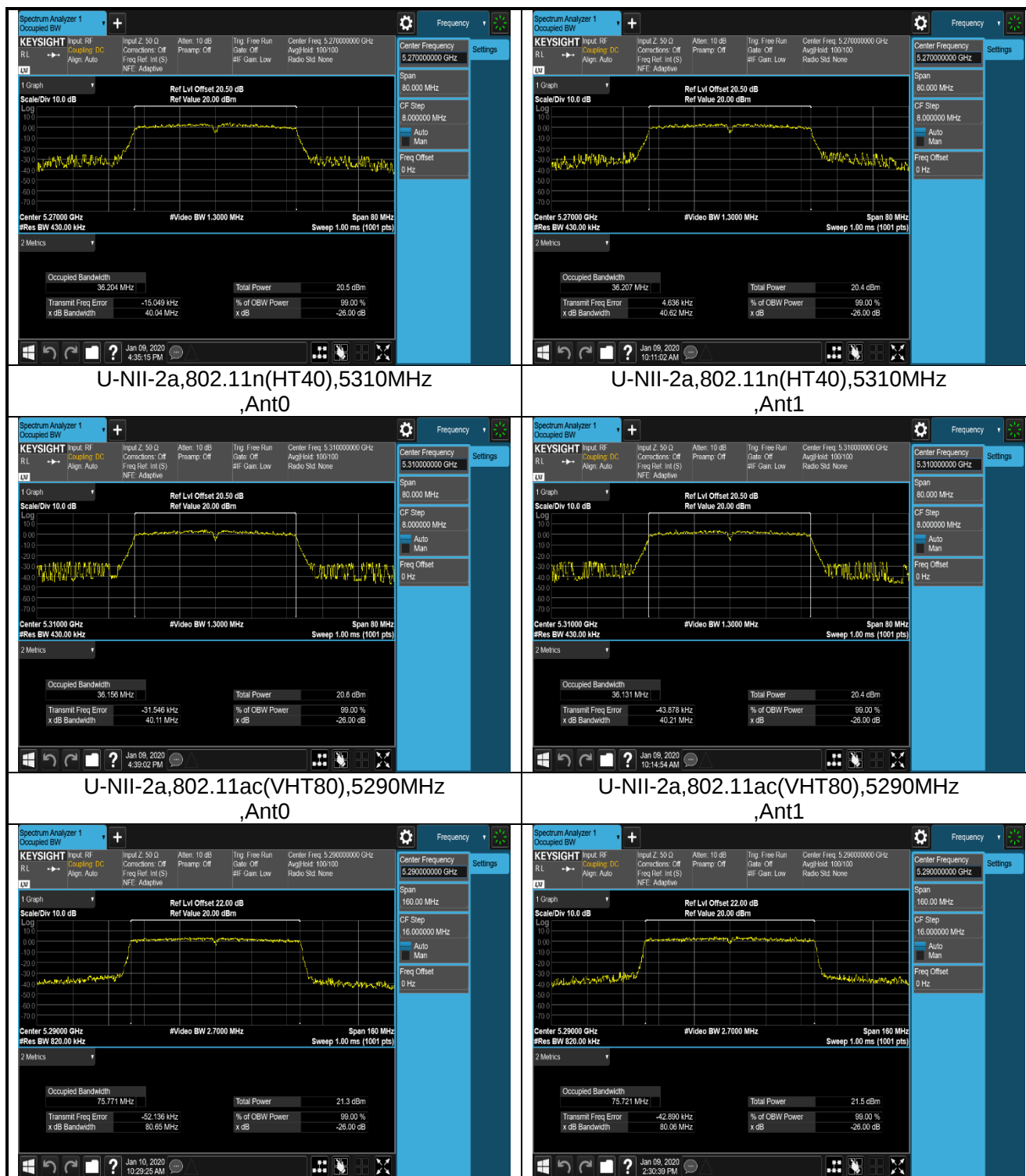
1.1 Test Data

U-NII-2a Occupied N dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11a	5260	Ant0	19.82	Pass
802.11a	5260	Ant1	20.31	Pass
802.11a	5300	Ant0	19.84	Pass
802.11a	5300	Ant1	20.44	Pass
802.11a	5320	Ant0	19.61	Pass
802.11a	5320	Ant1	20.23	Pass
802.11n (HT20)	5260	Ant0	20.10	Pass
802.11n (HT20)	5260	Ant1	19.97	Pass
802.11n (HT20)	5300	Ant0	20.16	Pass
802.11n (HT20)	5300	Ant1	20.07	Pass
802.11n (HT20)	5320	Ant0	19.98	Pass
802.11n (HT20)	5320	Ant1	20.11	Pass
802.11n (HT40)	5270	Ant0	40.04	Pass
802.11n (HT40)	5270	Ant1	40.62	Pass
802.11n (HT40)	5310	Ant0	40.11	Pass
802.11n (HT40)	5310	Ant1	40.21	Pass
802.11ac (VHT80)	5290	Ant0	80.65	Pass
802.11ac (VHT80)	5290	Ant1	80.06	Pass

1.2 Test Plots





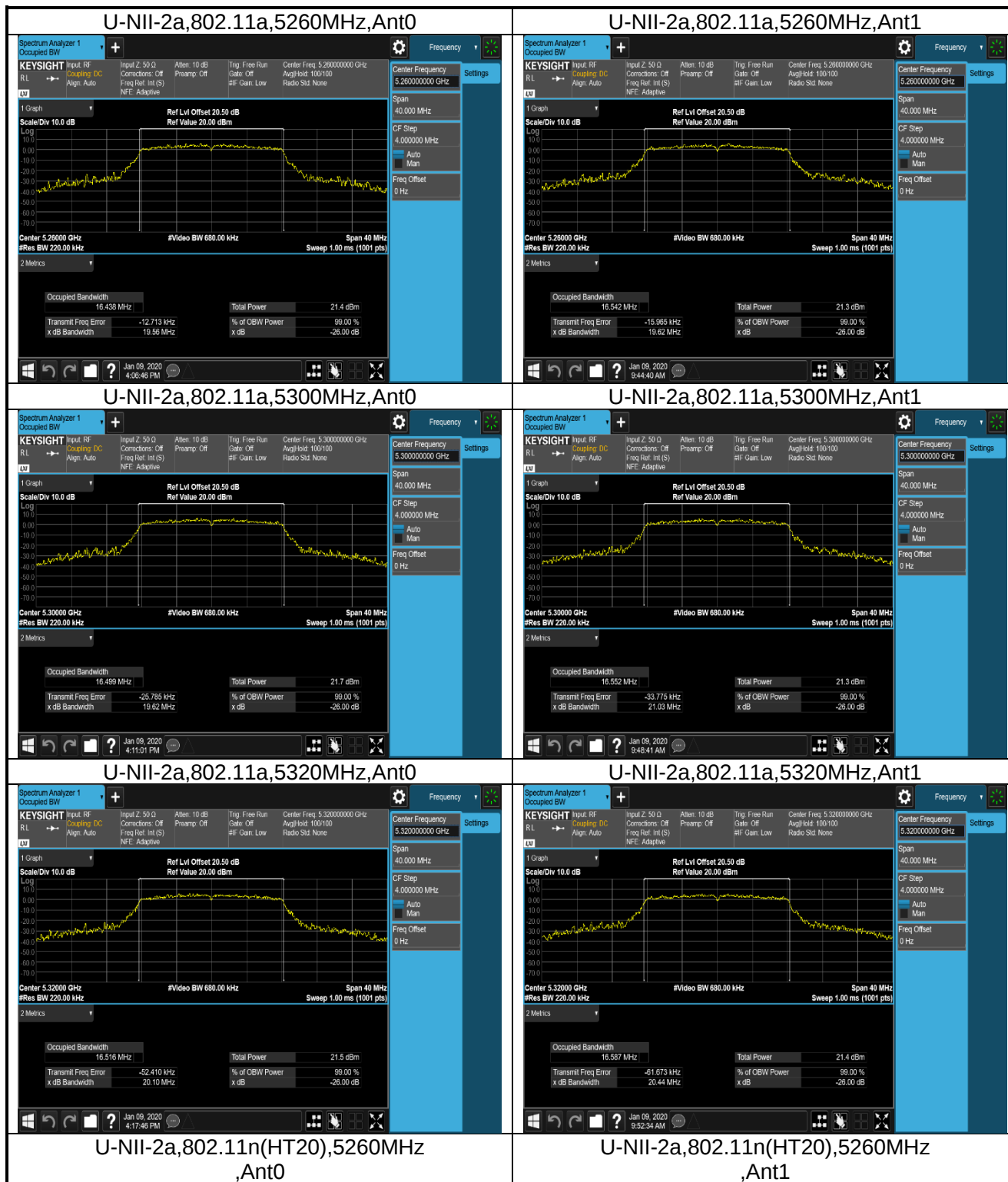


2. 99% Occupied Bandwidth

2.1 Test Data

U-NII-2a 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11a	5260	Ant0	16.438	Pass
802.11a	5260	Ant1	16.542	Pass
802.11a	5300	Ant0	16.499	Pass
802.11a	5300	Ant1	16.552	Pass
802.11a	5320	Ant0	16.516	Pass
802.11a	5320	Ant1	16.587	Pass
802.11n (HT20)	5260	Ant0	17.609	Pass
802.11n (HT20)	5260	Ant1	17.619	Pass
802.11n (HT20)	5300	Ant0	17.594	Pass
802.11n (HT20)	5300	Ant1	17.578	Pass
802.11n (HT20)	5320	Ant0	17.602	Pass
802.11n (HT20)	5320	Ant1	17.615	Pass
802.11n (HT40)	5270	Ant0	36.208	Pass
802.11n (HT40)	5270	Ant1	36.236	Pass
802.11n (HT40)	5310	Ant0	36.162	Pass
802.11n (HT40)	5310	Ant1	36.097	Pass
802.11ac (VHT80)	5290	Ant0	75.702	Pass
802.11ac (VHT80)	5290	Ant1	75.732	Pass

2.2 Test Plots

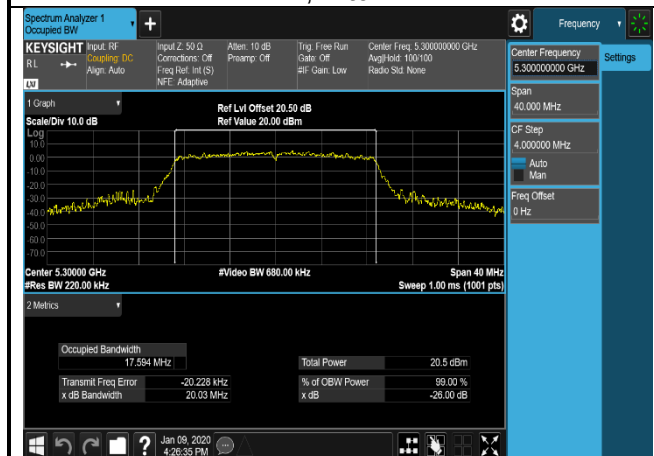




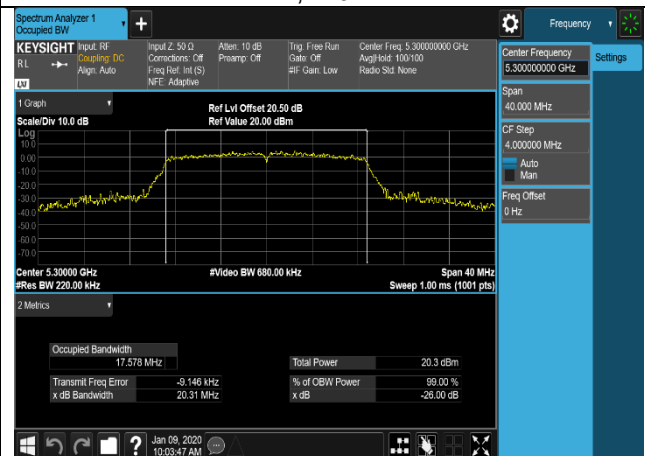
U-NII-2a,802.11n(HT20),5300MHz
,Ant0



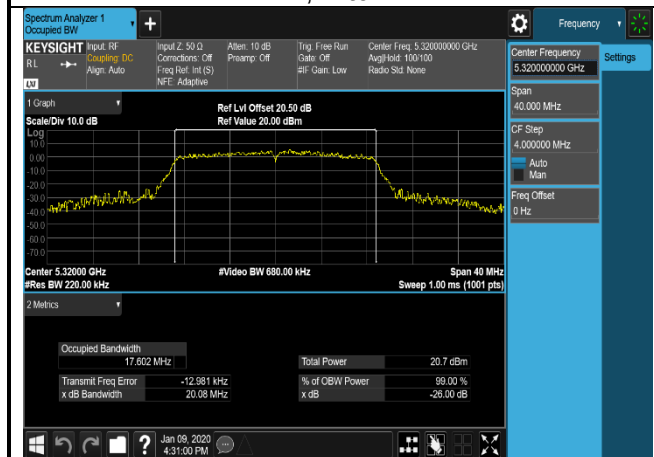
U-NII-2a,802.11n(HT20),5300MHz
,Ant1



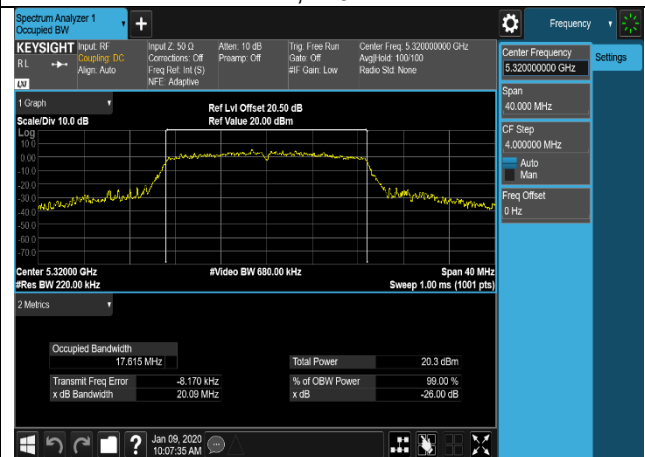
U-NII-2a,802.11n(HT20),5320MHz
,Ant0



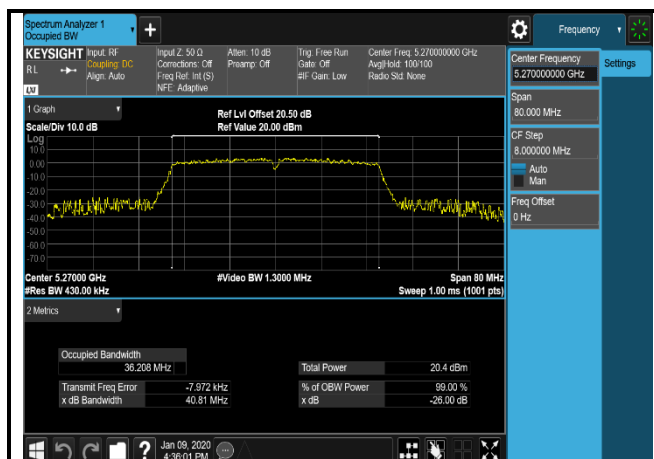
U-NII-2a,802.11n(HT20),5320MHz
,Ant1



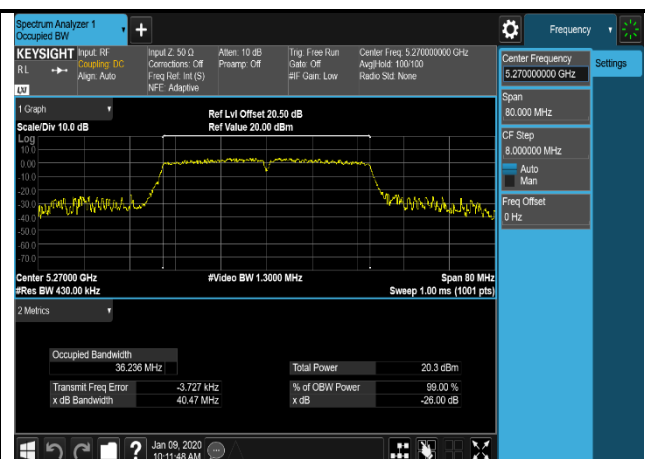
U-NII-2a,802.11n(HT40),5270MHz
,Ant0



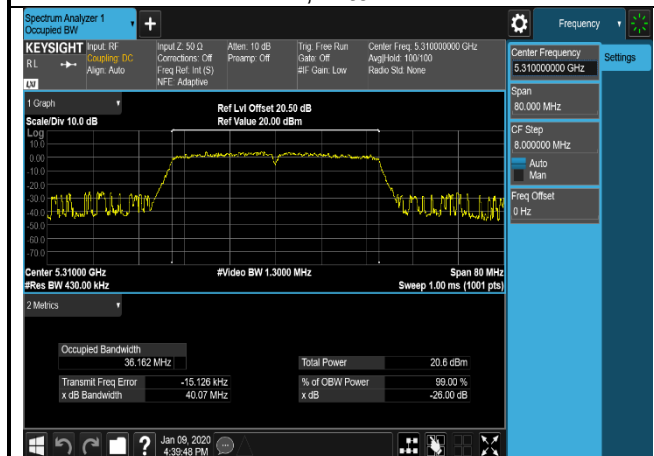
U-NII-2a,802.11n(HT40),5270MHz
,Ant1



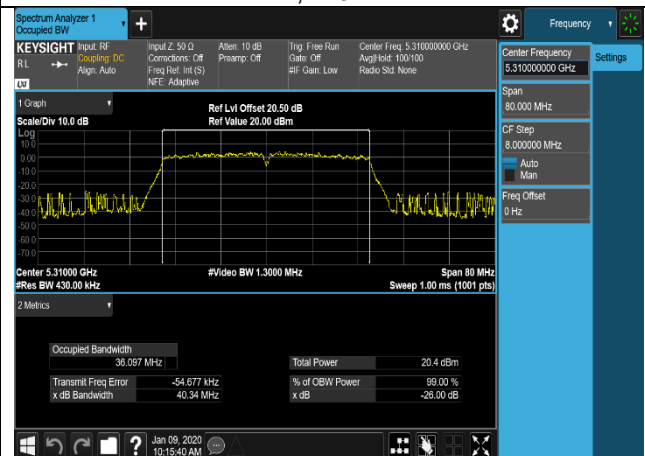
U-NII-2a,802.11n(HT40),5310MHz
,Ant0



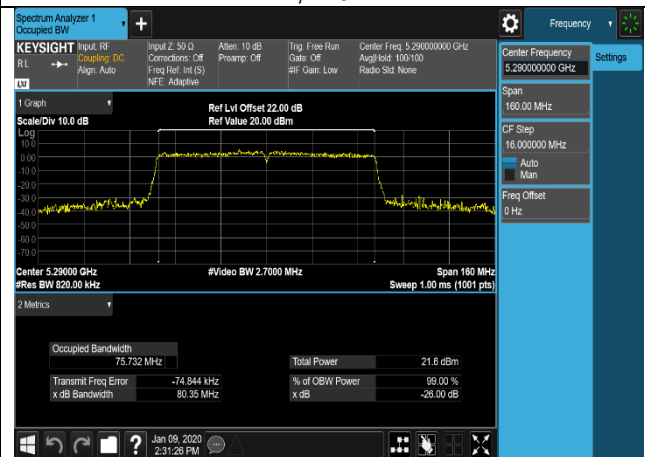
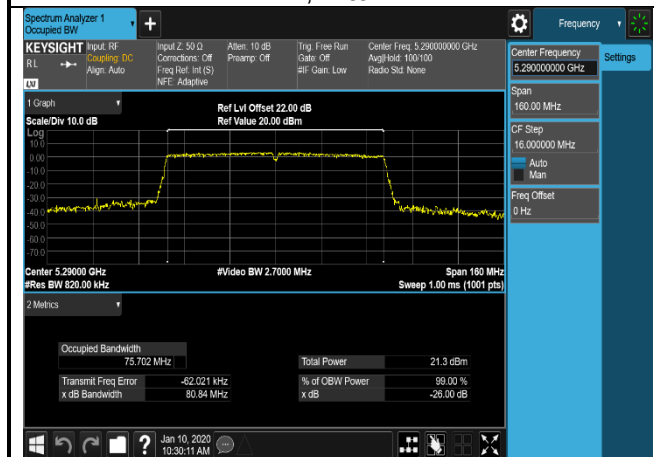
U-NII-2a,802.11n(HT40),5310MHz
,Ant1



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



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

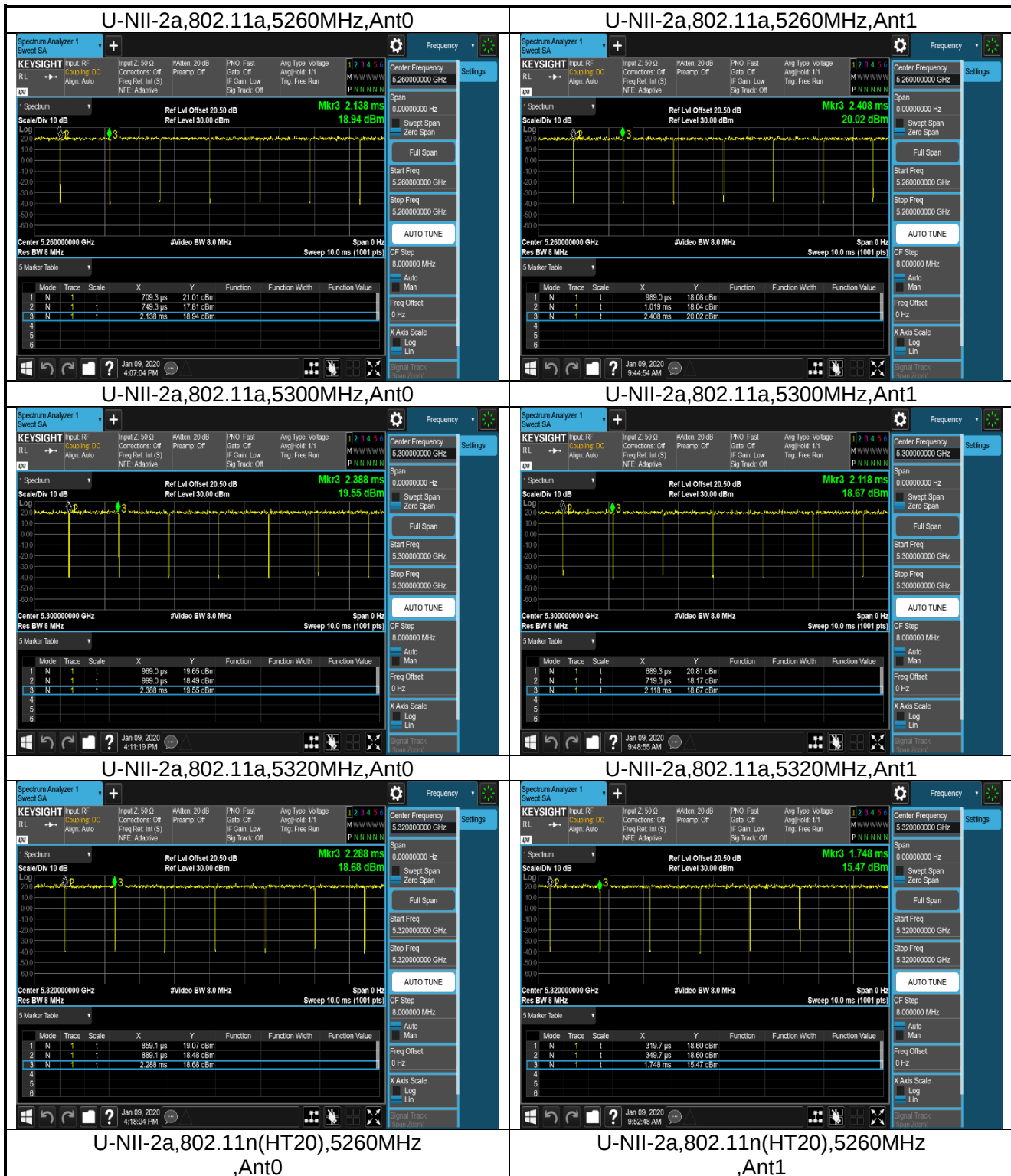


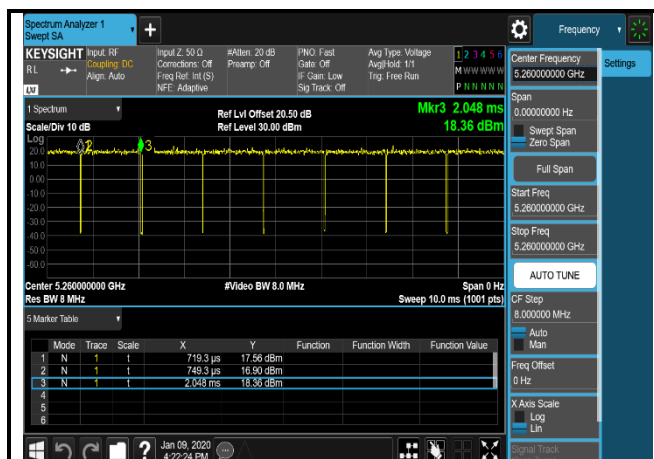
3. Duty Cycle

3.1 Test Data

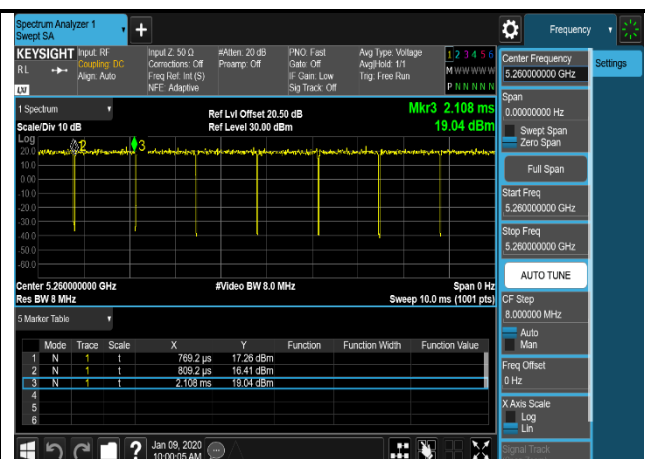
U-NII-2a Duty Cycle				
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11a	5260	Ant0	97.20	0.12
802.11a	5260	Ant1	97.89	0.09
802.11a	5300	Ant0	97.89	0.09
802.11a	5300	Ant1	97.90	0.09
802.11a	5320	Ant0	97.90	0.09
802.11a	5320	Ant1	97.90	0.09
802.11n (HT20)	5260	Ant0	97.74	0.10
802.11n (HT20)	5260	Ant1	97.01	0.13
802.11n (HT20)	5300	Ant0	97.01	0.13
802.11n (HT20)	5300	Ant1	97.01	0.13
802.11n (HT20)	5320	Ant0	97.74	0.10
802.11n (HT20)	5320	Ant1	97.74	0.10
802.11n (HT40)	5270	Ant0	94.12	0.26
802.11n (HT40)	5270	Ant1	94.12	0.26
802.11n (HT40)	5310	Ant0	94.12	0.26
802.11n (HT40)	5310	Ant1	95.59	0.20
802.11ac (VHT80)	5290	Ant0	84.23	0.75
802.11ac (VHT80)	5290	Ant1	84.23	0.75

3.2 Test Plots

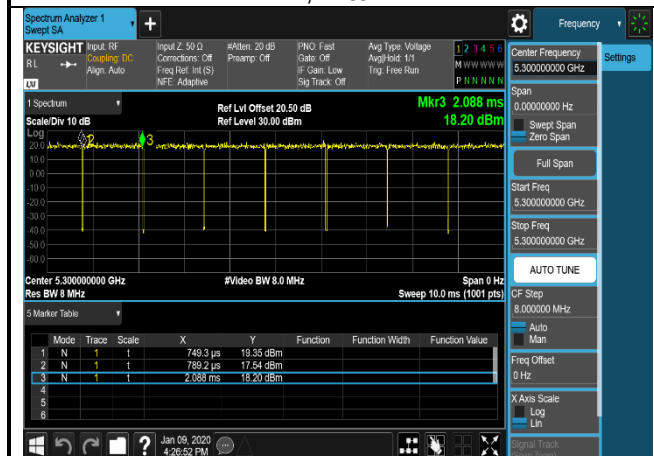




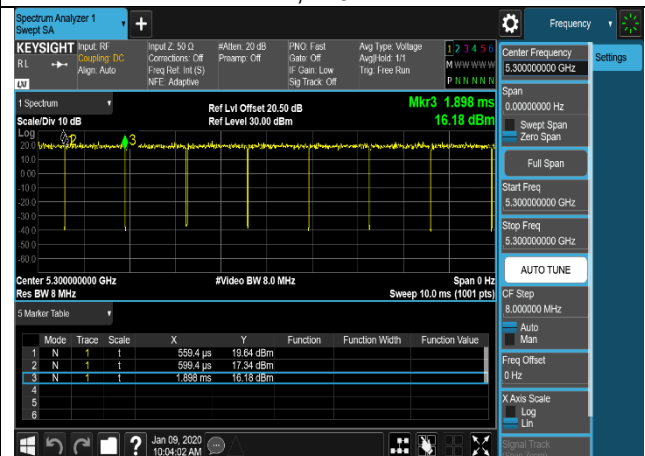
U-NII-2a,802.11n(HT20),5300MHz
,Ant0



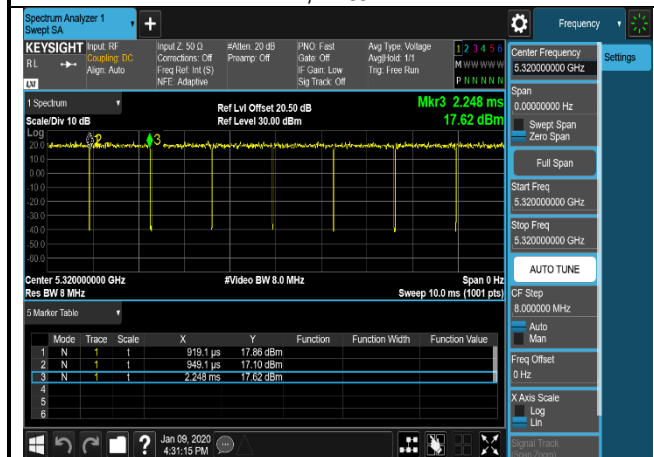
U-NII-2a,802.11n(HT20),5300MHz
,Ant1



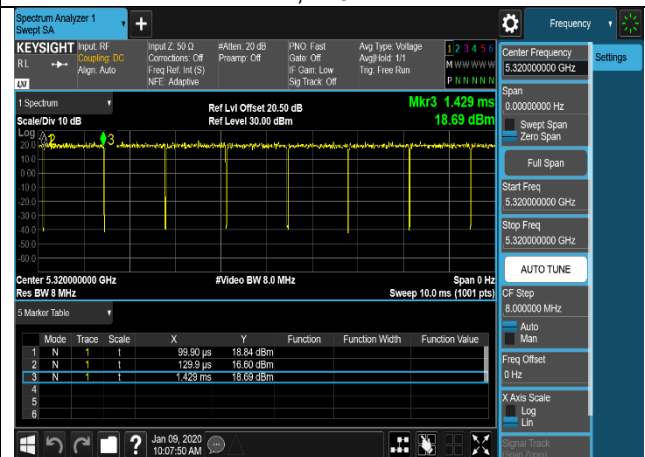
U-NII-2a,802.11n(HT20),5320MHz
,Ant0



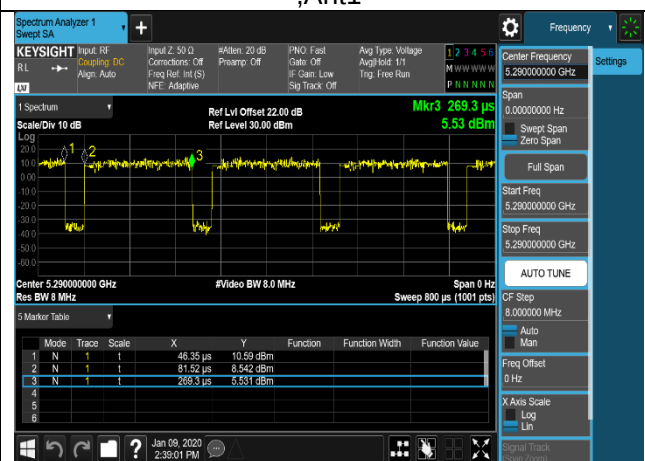
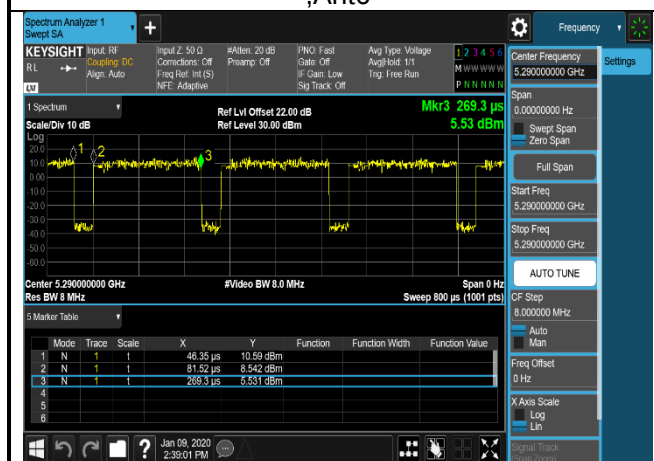
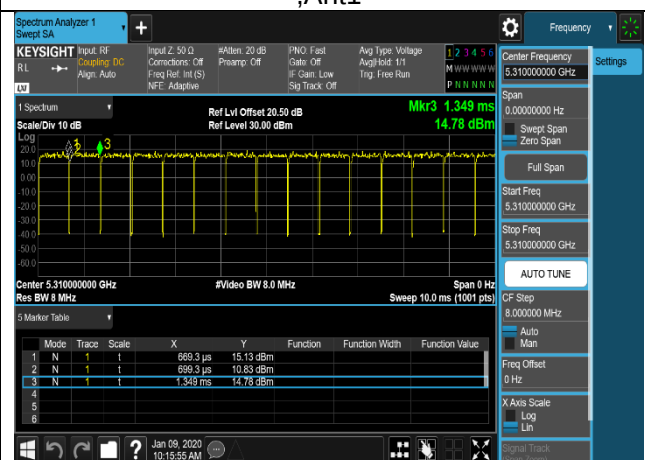
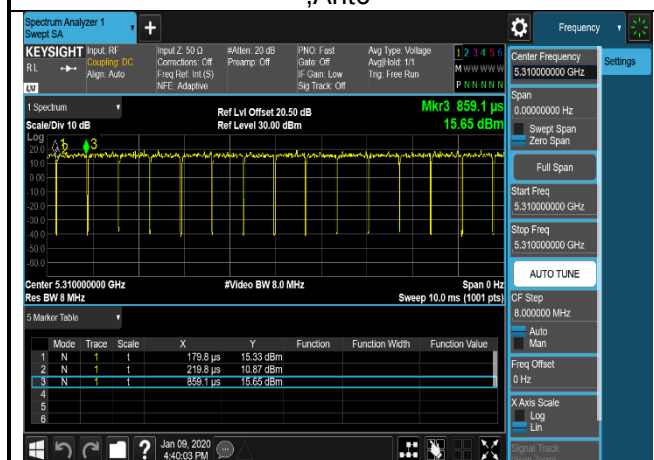
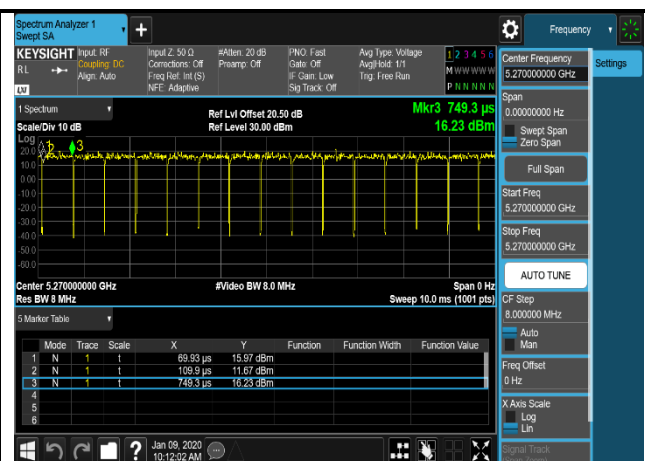
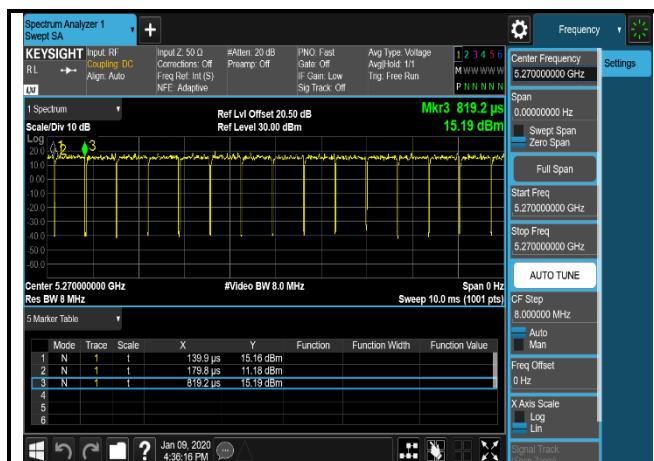
U-NII-2a,802.11n(HT20),5320MHz
,Ant1



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



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

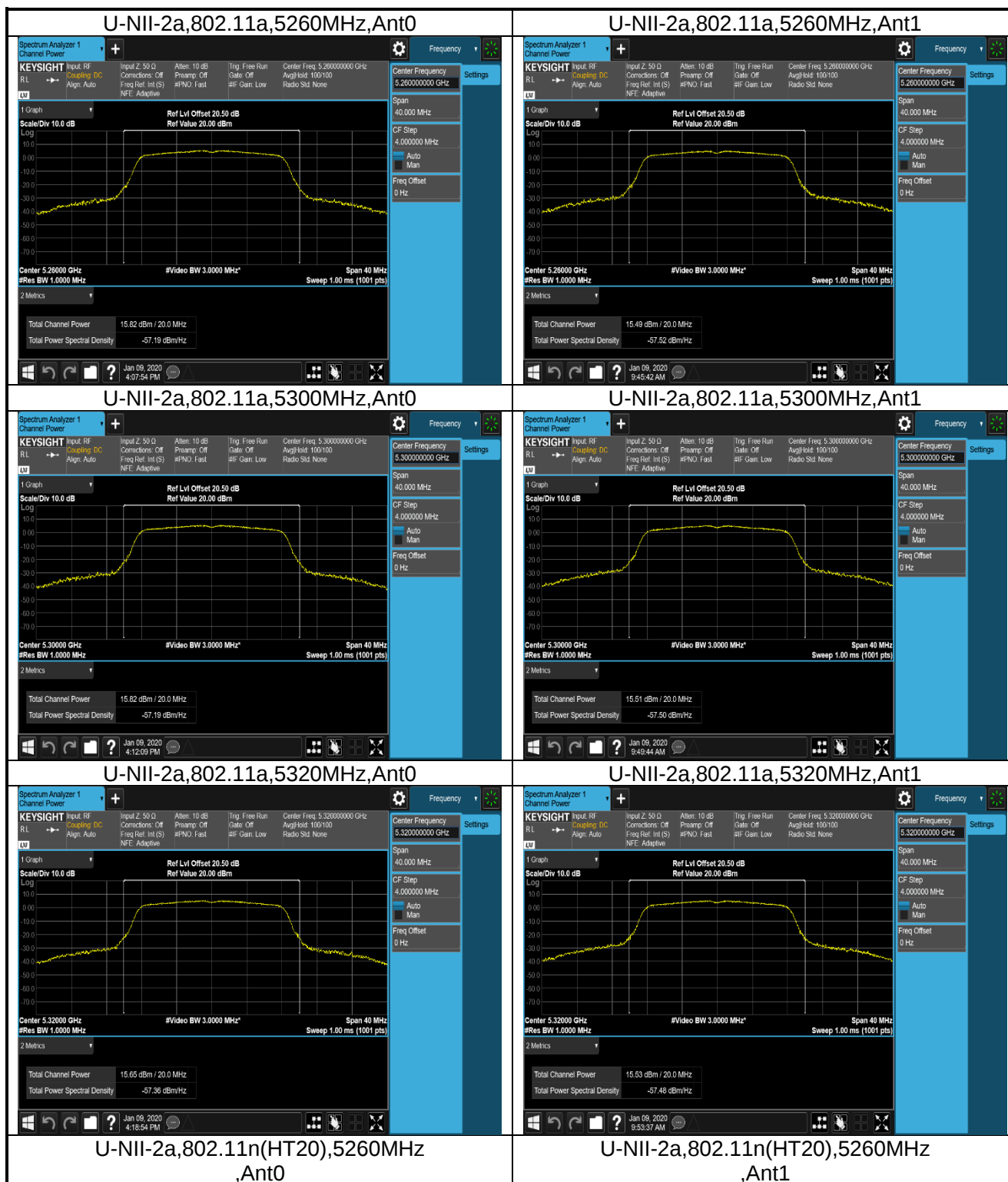


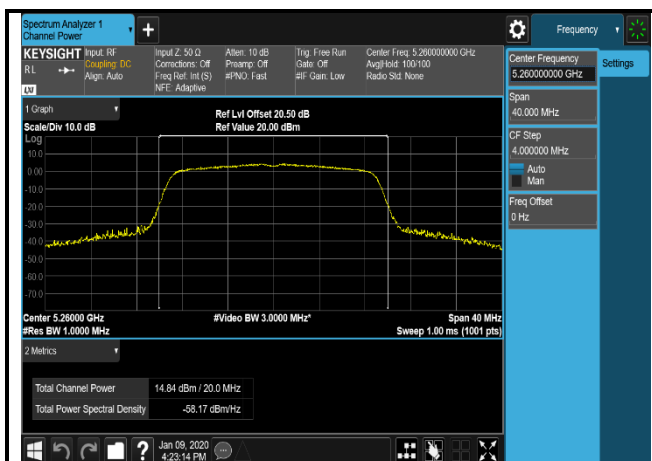
4. AVGSA Output Power

4.1 Test Data

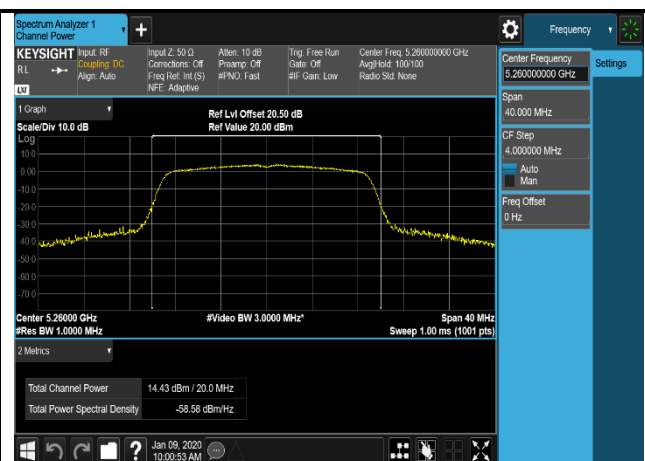
U-NII-2a AVGSA Output Power									
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Total Power (dBm)	FCC Limit (dBm)	IC Limit (dBm)	EIRP (dBm)	Result
802.11a	5260	Ant0	0.12	15.94	15.94	24	23	17.77	Pass
802.11a	5260	Ant1	0.09	15.58	15.58	24	23	17.11	Pass
802.11a	5300	Ant0	0.09	15.91	15.91	24	23	17.74	Pass
802.11a	5300	Ant1	0.09	15.60	15.60	24	23	17.13	Pass
802.11a	5320	Ant0	0.09	15.74	15.74	24	23	17.57	Pass
802.11a	5320	Ant1	0.09	15.62	15.62	24	23	17.15	Pass
802.11n (HT20)	5260	Ant0	0.10	14.94	17.76	24	23	19.45	Pass
802.11n (HT20)	5260	Ant1	0.13	14.56					
802.11n (HT20)	5300	Ant0	0.13	14.80	17.69	24	23	19.37	Pass
802.11n (HT20)	5300	Ant1	0.13	14.56					
802.11n (HT20)	5320	Ant0	0.10	14.80	17.66	24	23	19.35	Pass
802.11n (HT20)	5320	Ant1	0.10	14.50					
802.11n (HT40)	5270	Ant0	0.26	14.61	17.57	24	24	19.25	Pass
802.11n (HT40)	5270	Ant1	0.26	14.51					
802.11n (HT40)	5310	Ant0	0.26	14.65	17.55	24	24	19.23	Pass
802.11n (HT40)	5310	Ant1	0.20	14.43					
802.11ac (VHT80)	5290	Ant0	0.75	12.96	15.93	24	24	17.61	Pass
802.11ac (VHT80)	5290	Ant1	0.75	12.88					

4.2 Test Plots

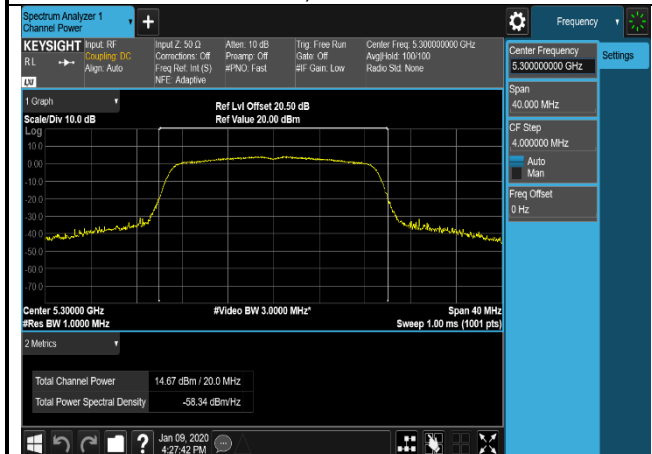




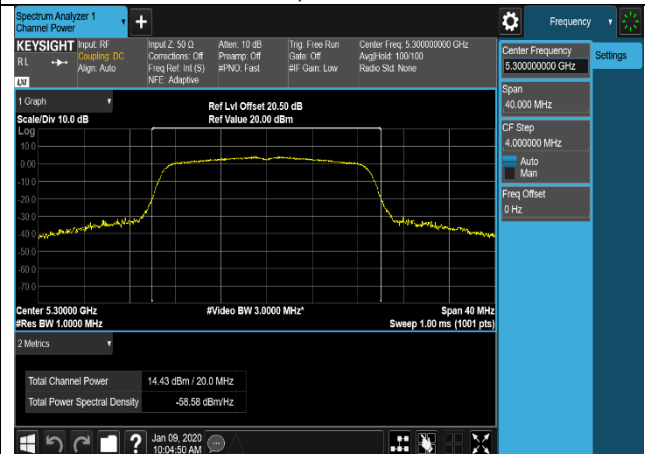
U-NII-2a,802.11n(HT20),5300MHz
,Ant0



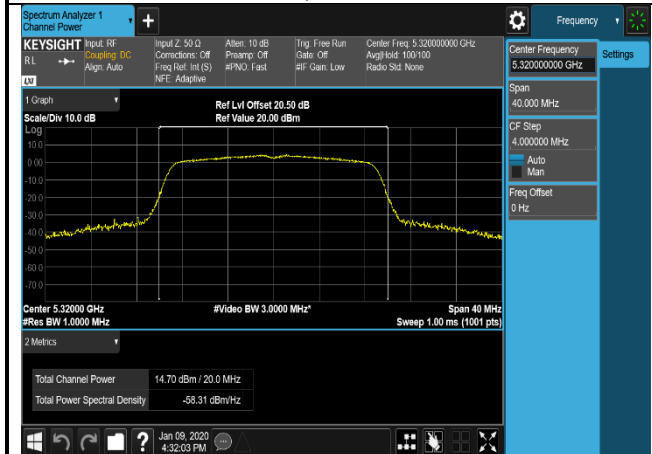
U-NII-2a,802.11n(HT20),5300MHz
,Ant1



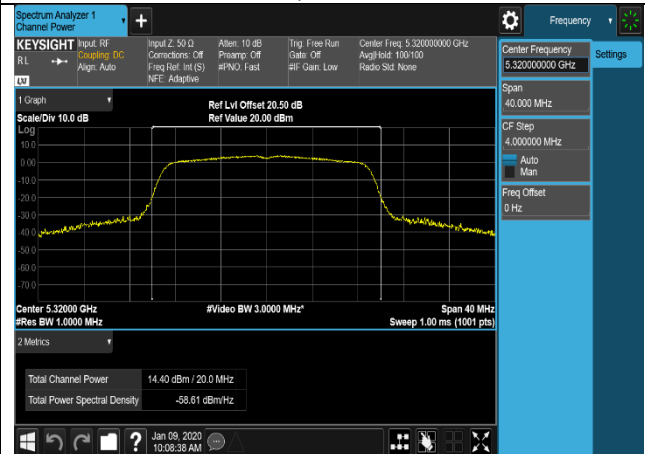
U-NII-2a,802.11n(HT20),5320MHz
,Ant0



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



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



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

