

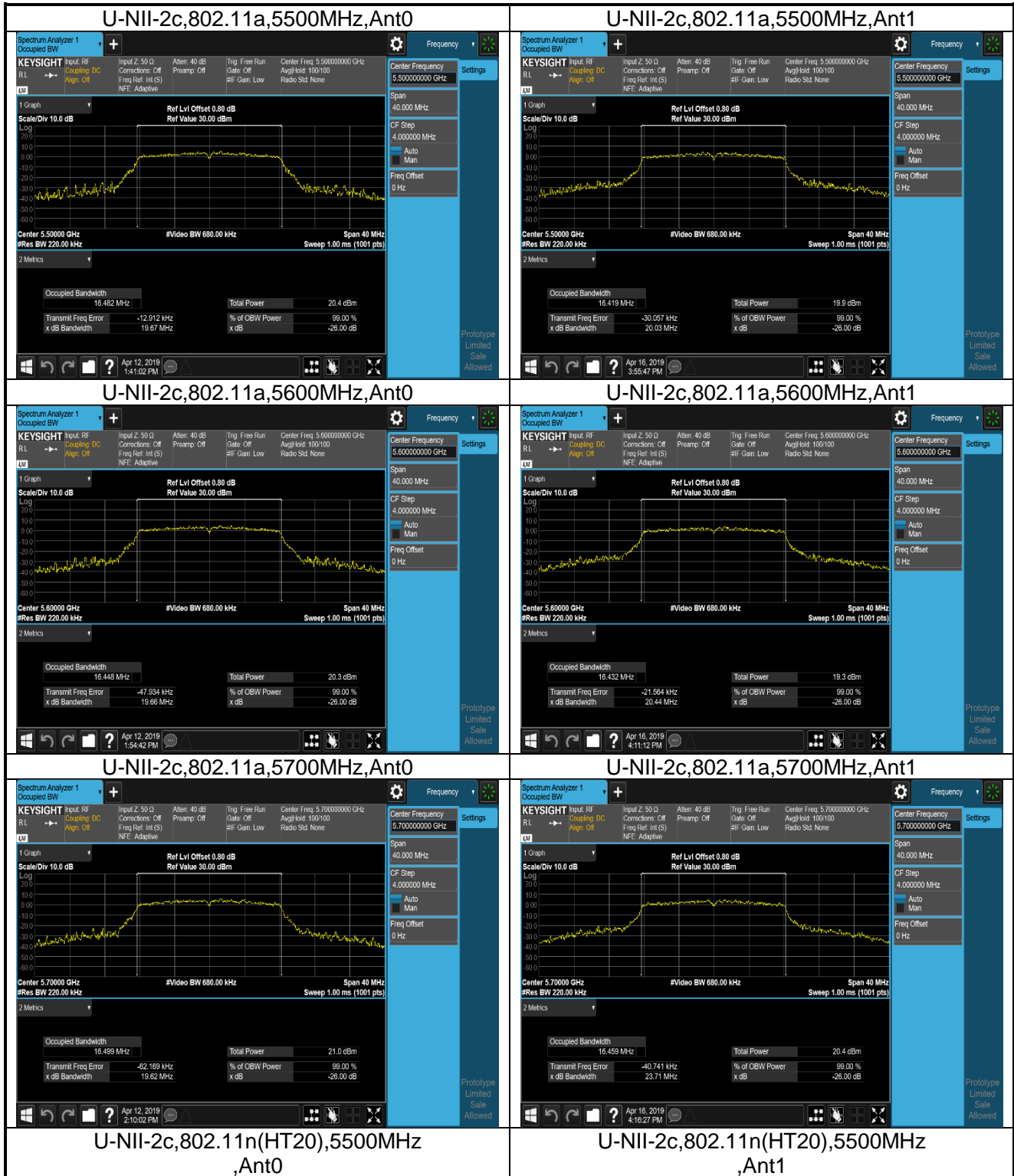
Appendix A3: Test results

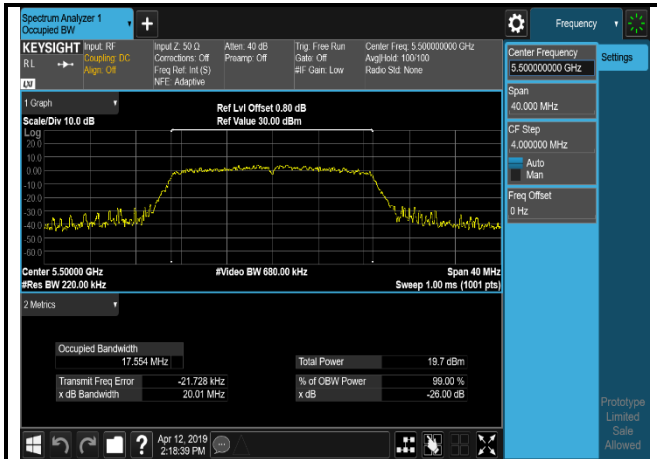
1. Occupied N dB Bandwidth

1.1 Test Data

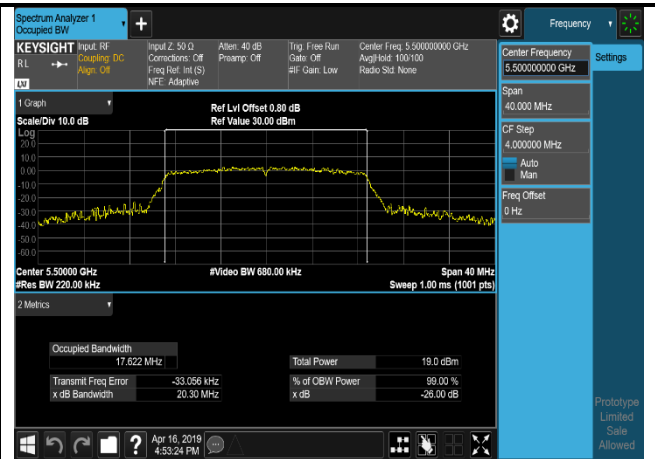
U-NII-2c Occupied N dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11a	5500	Ant0	19.67	Pass
802.11a	5500	Ant1	20.03	Pass
802.11a	5600	Ant0	19.66	Pass
802.11a	5600	Ant1	20.44	Pass
802.11a	5700	Ant0	19.62	Pass
802.11a	5700	Ant1	23.71	Pass
802.11n (HT20)	5500	Ant0	20.01	Pass
802.11n (HT20)	5500	Ant1	20.30	Pass
802.11n (HT20)	5600	Ant0	20.12	Pass
802.11n (HT20)	5600	Ant1	20.09	Pass
802.11n (HT20)	5700	Ant0	20.14	Pass
802.11n (HT20)	5700	Ant1	20.20	Pass
802.11n (HT40)	5510	Ant0	40.15	Pass
802.11n (HT40)	5510	Ant1	40.64	Pass
802.11n (HT40)	5590	Ant0	40.42	Pass
802.11n (HT40)	5590	Ant1	40.31	Pass
802.11n (HT40)	5670	Ant0	40.06	Pass
802.11n (HT40)	5670	Ant1	40.47	Pass
802.11ac (VHT80)	5530	Ant0	80.72	Pass
802.11ac (VHT80)	5530	Ant1	79.98	Pass
802.11ac (VHT80)	5610	Ant0	80.55	Pass
802.11ac (VHT80)	5610	Ant1	79.69	Pass

1.2 Test Plots

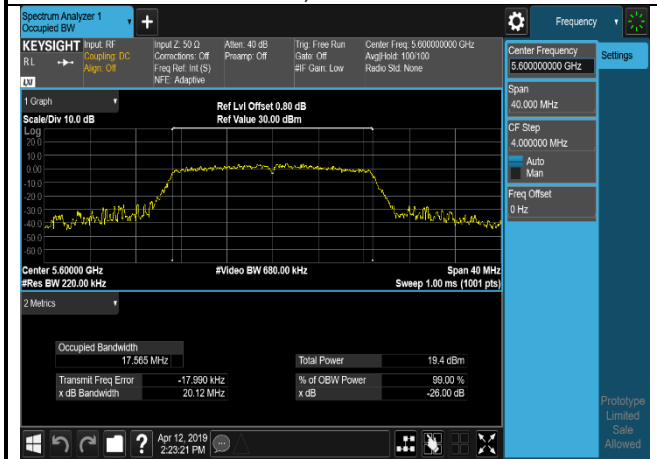




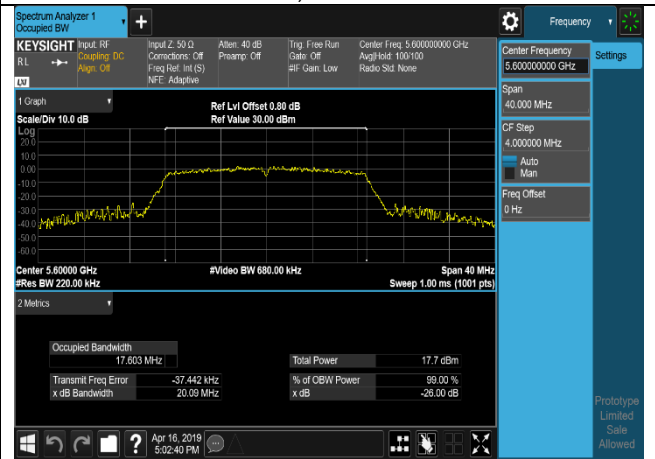
U-NII-2c,802.11n(HT20),5600MHz
,Ant0



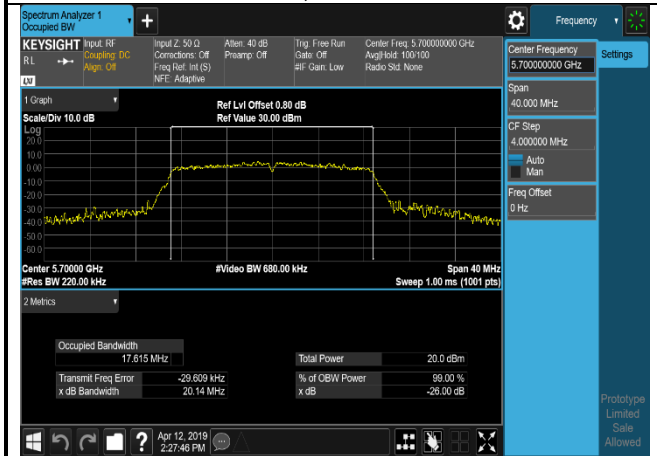
U-NII-2c,802.11n(HT20),5600MHz
,Ant1



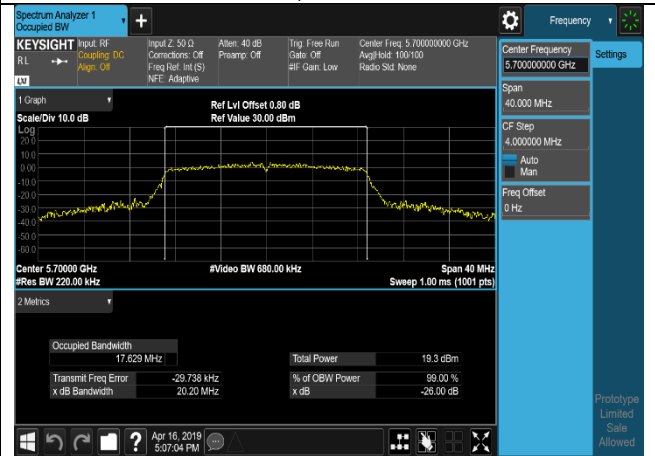
U-NII-2c,802.11n(HT20),5700MHz
,Ant0



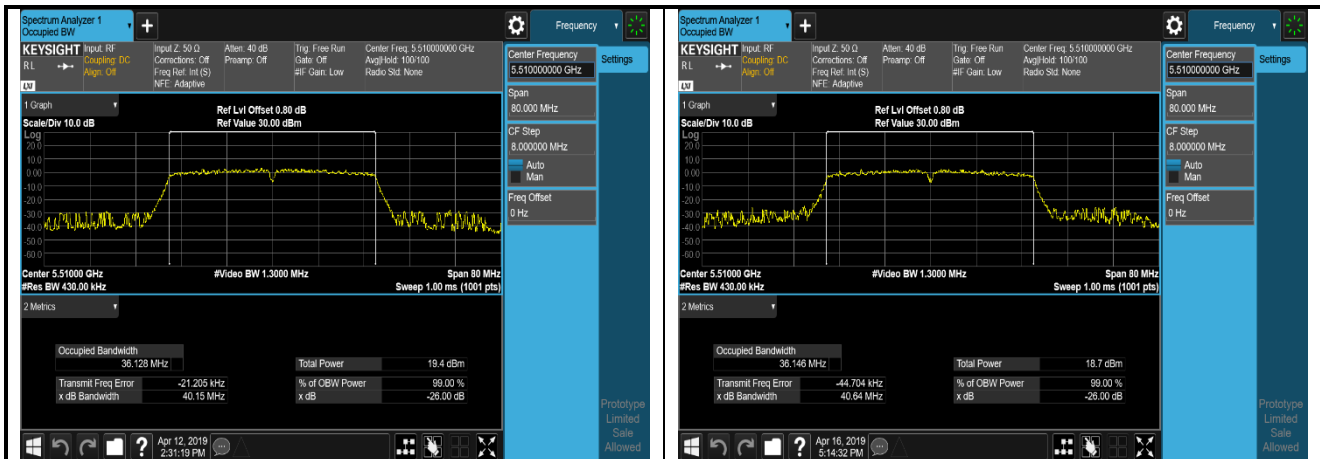
U-NII-2c,802.11n(HT20),5700MHz
,Ant1



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

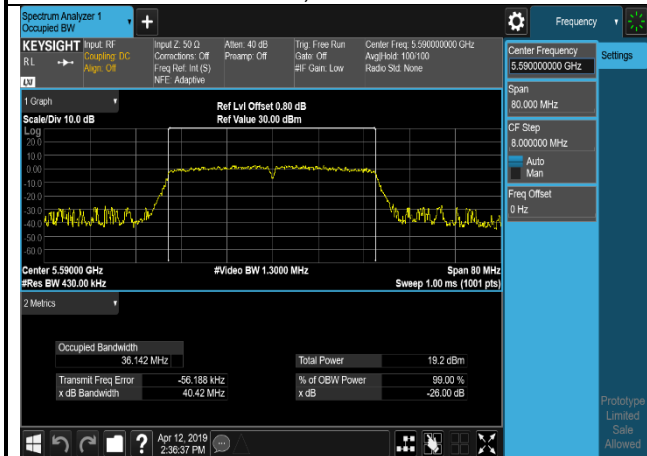


U-NII-2c,802.11n(HT40),5510MHz
,Ant1

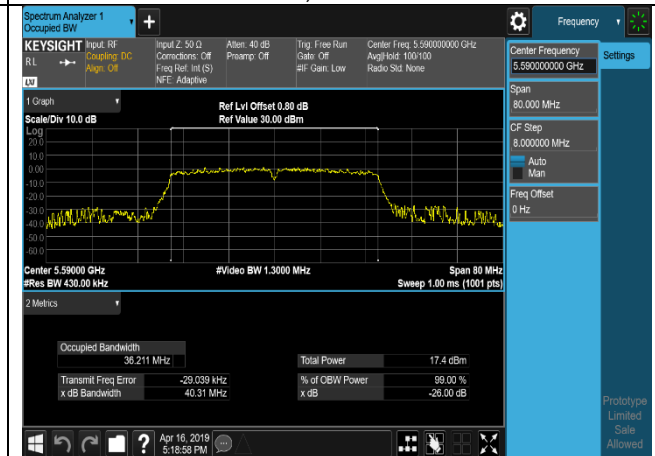


U-NII-2c,802.11n(HT40),5590MHz
,Ant0

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



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



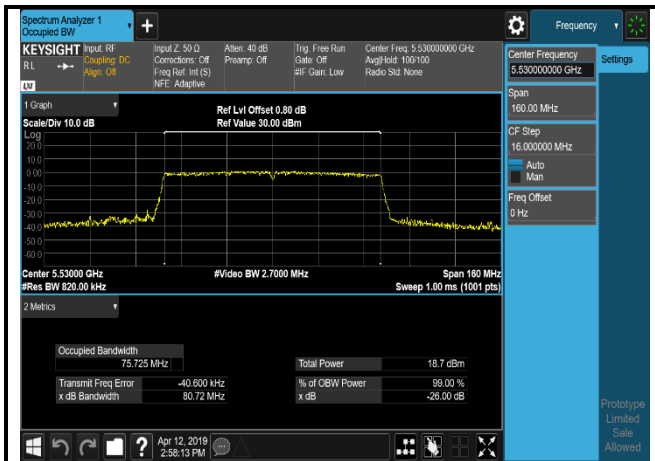
U-NII-2c,802.11n(HT40),5670MHz
,Ant1



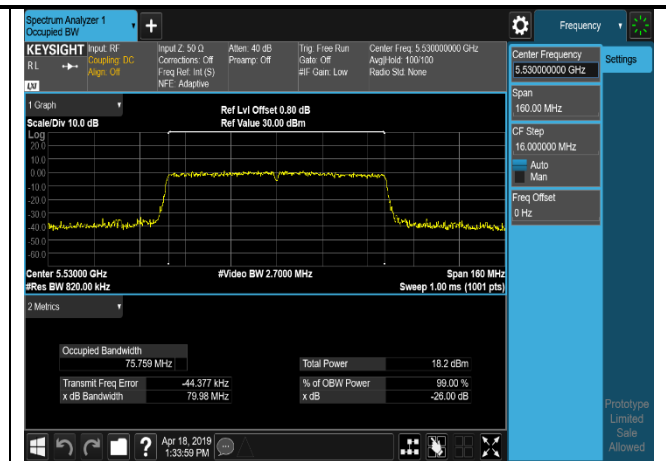
U-NII-2c,802.11ac(VHT80),5530MHz
,Ant0



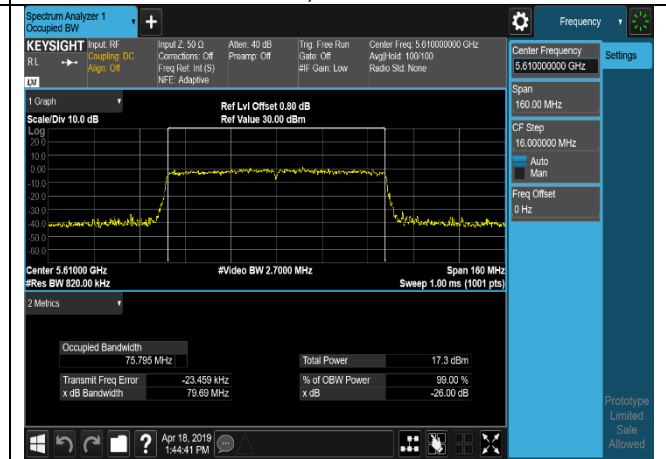
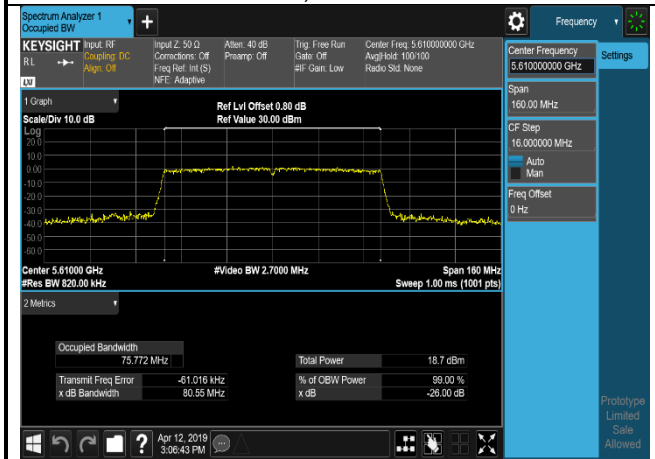
U-NII-2c,802.11ac(VHT80),5530MHz
,Ant1



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



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

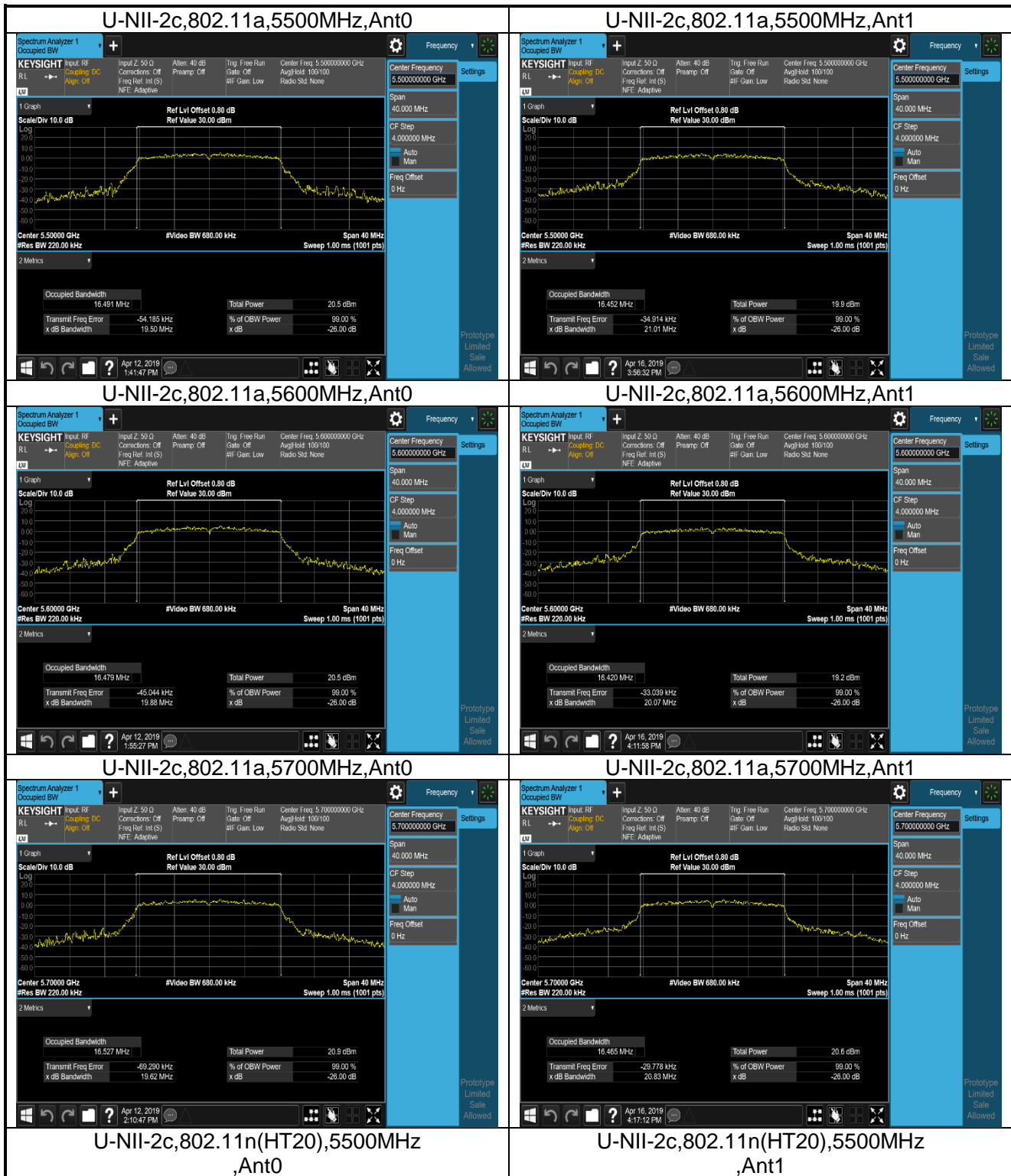


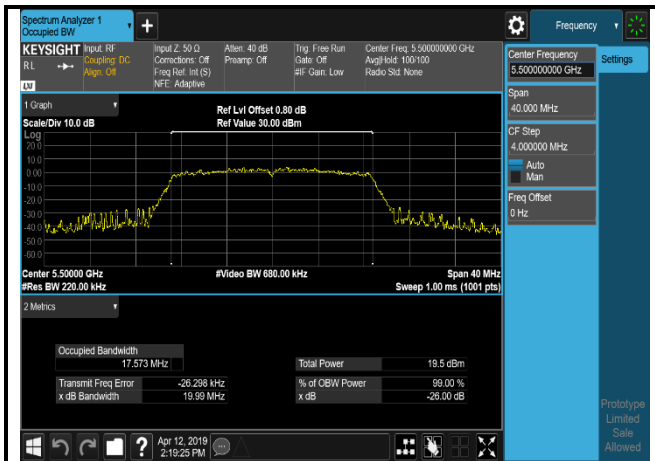
2. 99% Occupied Bandwidth

2.1 Test Data

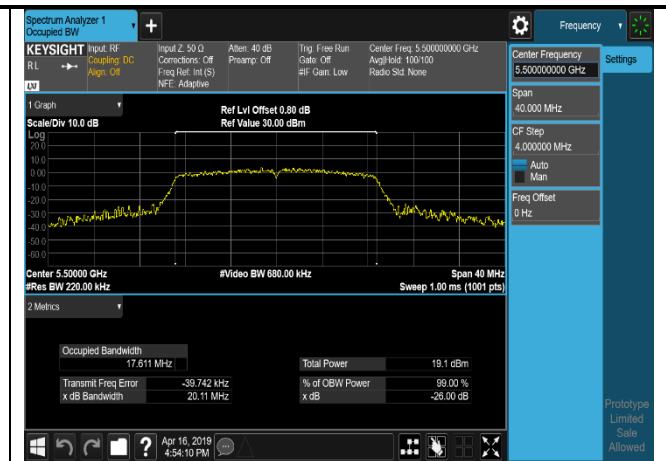
U-NII-2c 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11a	5500	Ant0	16.491	Pass
802.11a	5500	Ant1	16.452	Pass
802.11a	5600	Ant0	16.479	Pass
802.11a	5600	Ant1	16.420	Pass
802.11a	5700	Ant0	16.527	Pass
802.11a	5700	Ant1	16.465	Pass
802.11n (HT20)	5500	Ant0	17.573	Pass
802.11n (HT20)	5500	Ant1	17.611	Pass
802.11n (HT20)	5600	Ant0	17.610	Pass
802.11n (HT20)	5600	Ant1	17.625	Pass
802.11n (HT20)	5700	Ant0	17.574	Pass
802.11n (HT20)	5700	Ant1	17.626	Pass
802.11n (HT40)	5510	Ant0	36.207	Pass
802.11n (HT40)	5510	Ant1	36.204	Pass
802.11n (HT40)	5590	Ant0	36.166	Pass
802.11n (HT40)	5590	Ant1	36.151	Pass
802.11n (HT40)	5670	Ant0	36.153	Pass
802.11n (HT40)	5670	Ant1	36.136	Pass
802.11ac (VHT80)	5530	Ant0	75.694	Pass
802.11ac (VHT80)	5530	Ant1	75.713	Pass
802.11ac (VHT80)	5610	Ant0	75.776	Pass
802.11ac (VHT80)	5610	Ant1	75.710	Pass

2.2 Test Plots

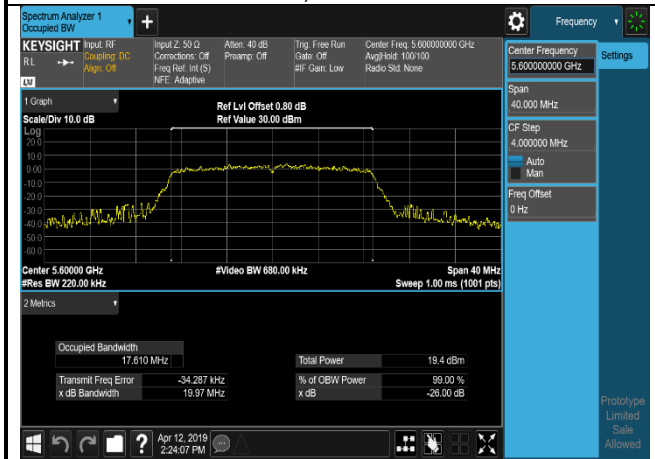




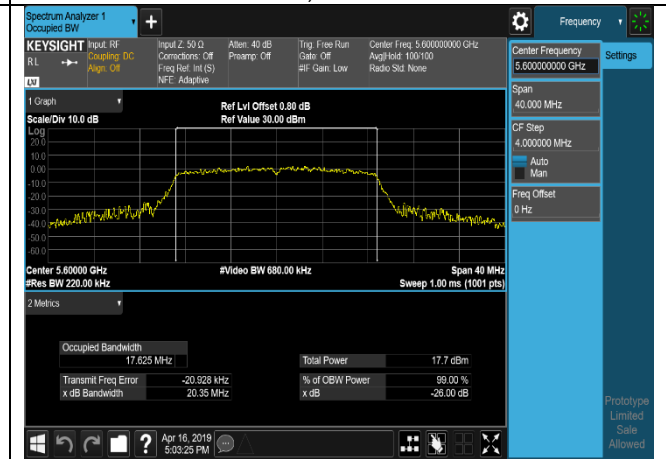
U-NII-2c,802.11n(HT20),5600MHz
,Ant0



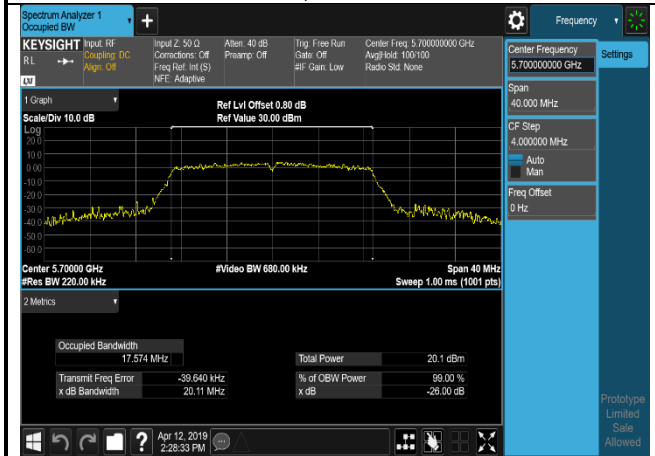
U-NII-2c,802.11n(HT20),5600MHz
,Ant1



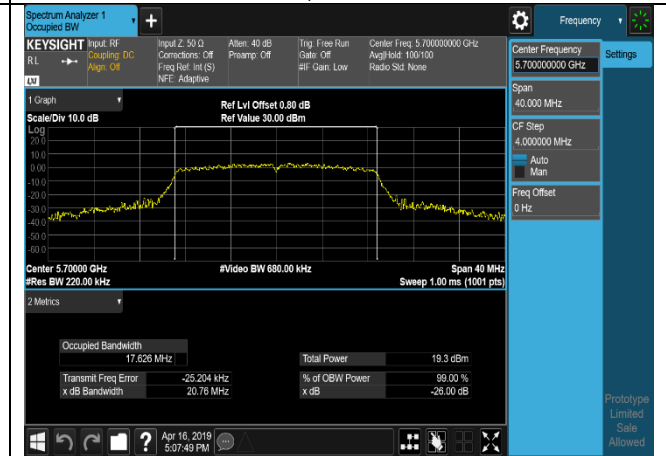
U-NII-2c,802.11n(HT20),5700MHz
,Ant0



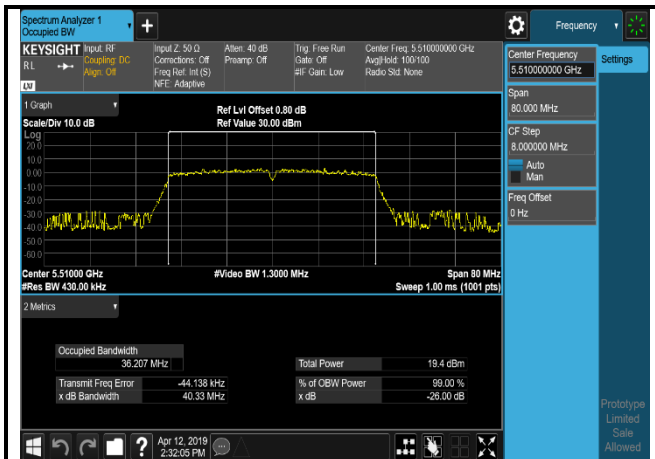
U-NII-2c,802.11n(HT20),5700MHz
,Ant1



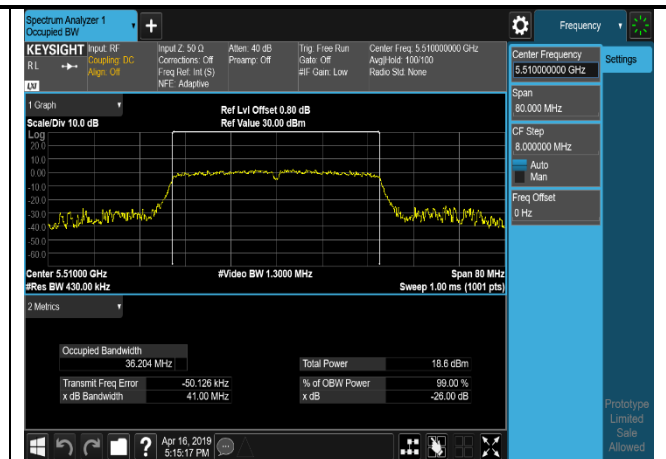
U-NII-2c,802.11n(HT40),5510MHz
,Ant0



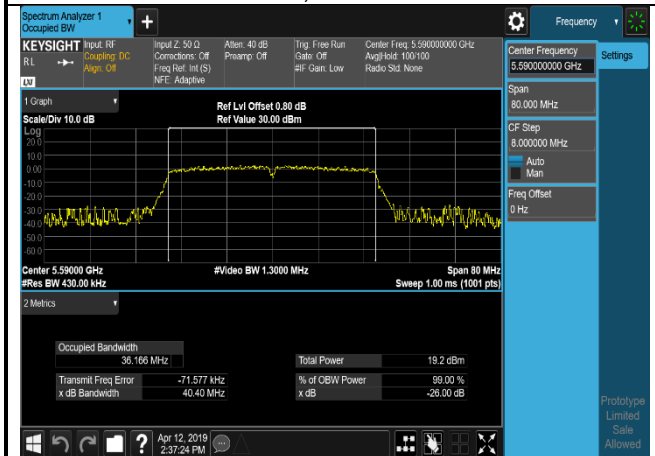
U-NII-2c,802.11n(HT40),5510MHz
,Ant1



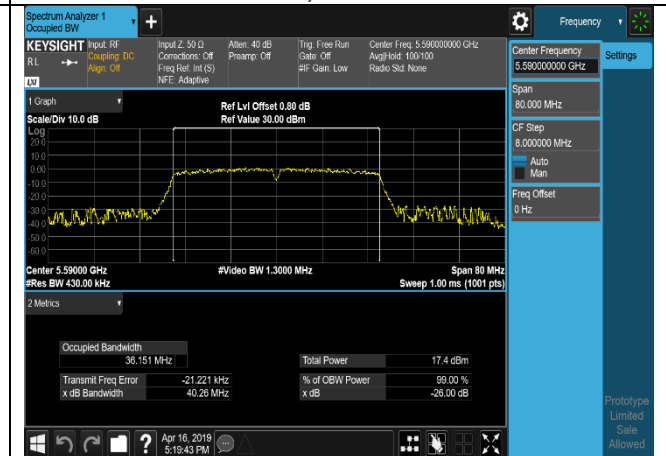
U-NII-2c,802.11n(HT40),5590MHz
,Ant0



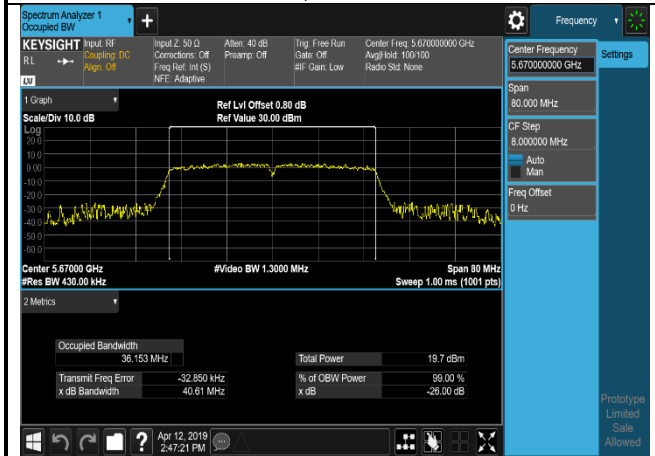
U-NII-2c,802.11n(HT40),5590MHz
,Ant1



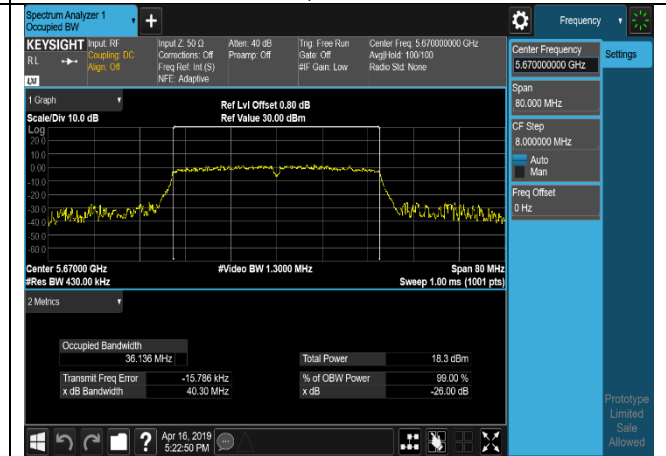
U-NII-2c,802.11n(HT40),5670MHz
,Ant0



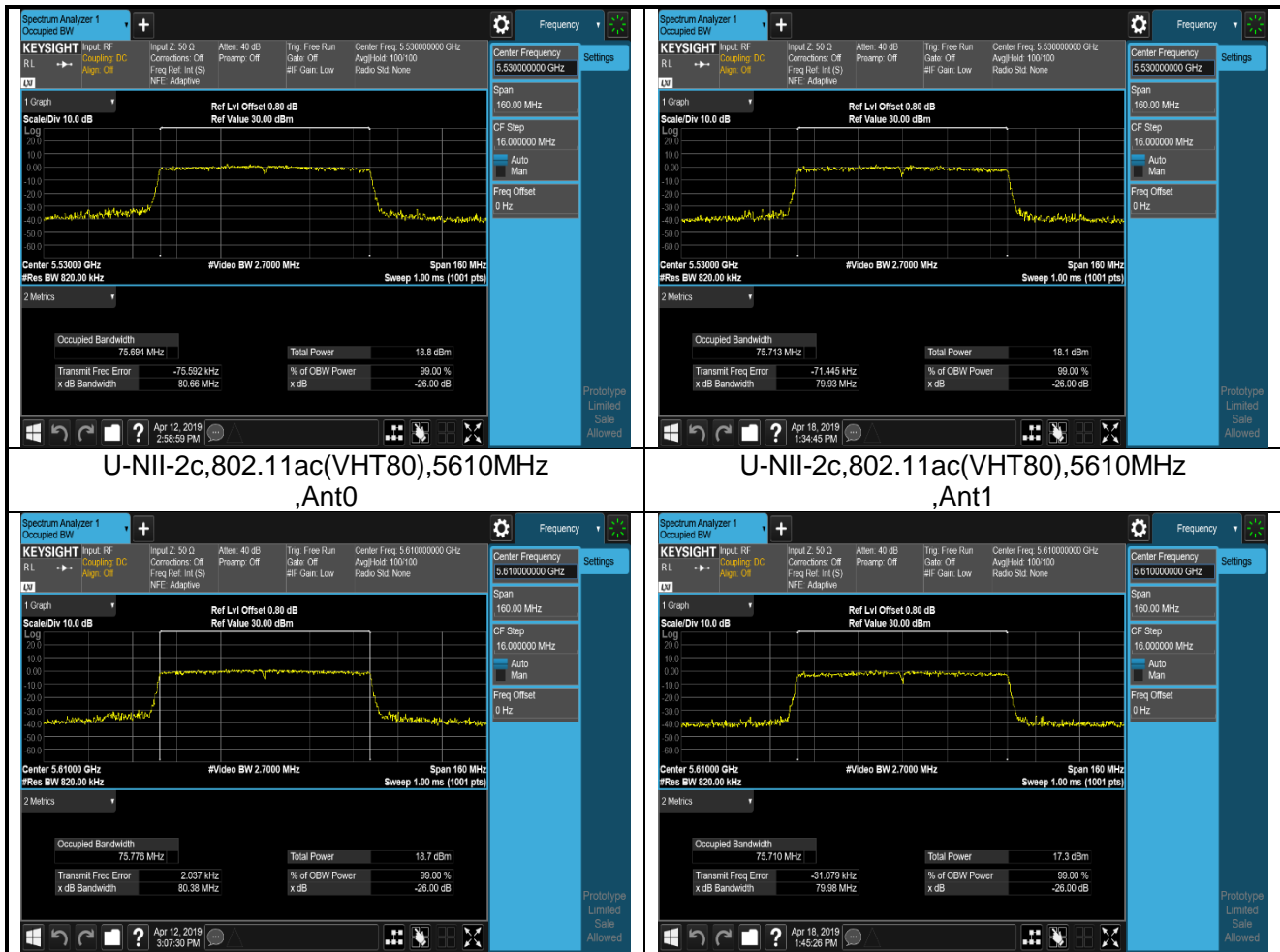
U-NII-2c,802.11n(HT40),5670MHz
,Ant1



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



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

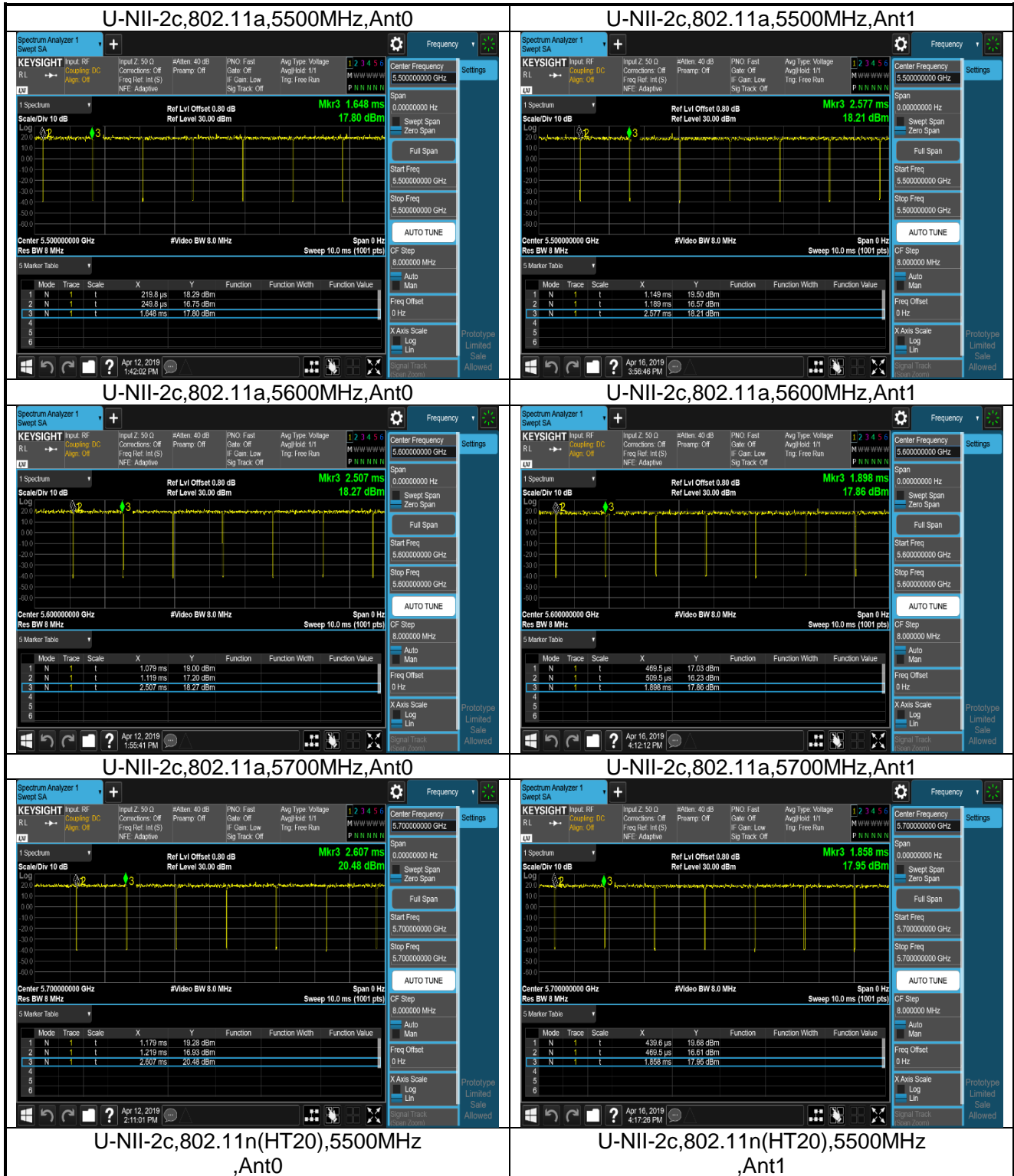


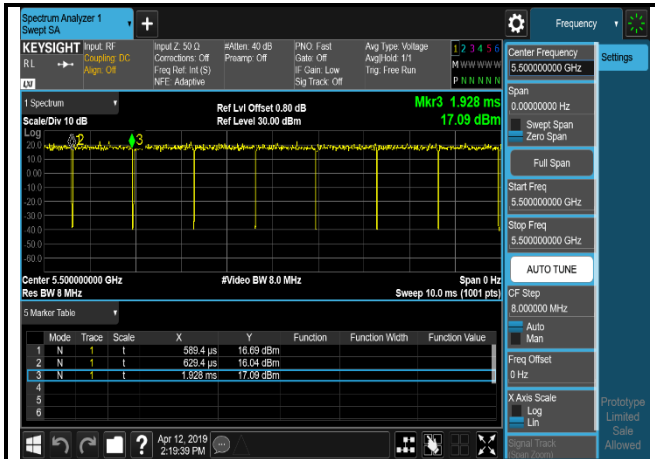
3. Duty Cycle

3.1 Test Data

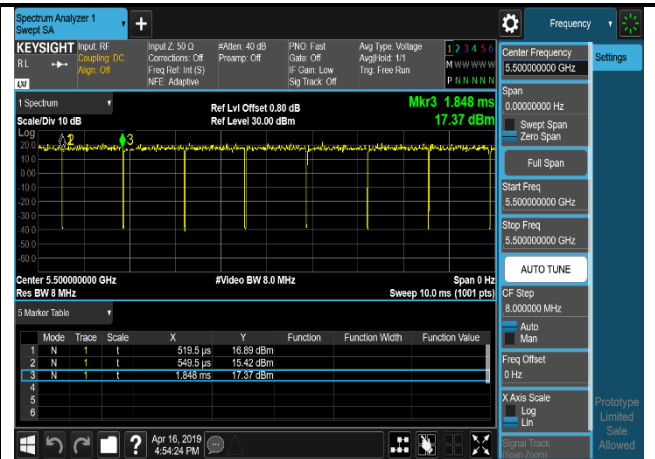
U-NII-2c Duty Cycle				
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11a	5500	Ant0	97.90	0.09
802.11a	5500	Ant1	97.20	0.12
802.11a	5600	Ant0	97.20	0.12
802.11a	5600	Ant1	97.20	0.12
802.11a	5700	Ant0	97.20	0.12
802.11a	5700	Ant1	97.89	0.09
802.11n (HT20)	5500	Ant0	97.01	0.13
802.11n (HT20)	5500	Ant1	97.74	0.10
802.11n (HT20)	5600	Ant0	97.74	0.10
802.11n (HT20)	5600	Ant1	97.74	0.10
802.11n (HT20)	5700	Ant0	97.74	0.10
802.11n (HT20)	5700	Ant1	97.01	0.13
802.11n (HT40)	5510	Ant0	95.59	0.20
802.11n (HT40)	5510	Ant1	94.20	0.26
802.11n (HT40)	5590	Ant0	94.20	0.26
802.11n (HT40)	5590	Ant1	95.59	0.20
802.11n (HT40)	5670	Ant0	94.12	0.26
802.11n (HT40)	5670	Ant1	94.20	0.26
802.11ac (VHT80)	5530	Ant0	84.23	0.75
802.11ac (VHT80)	5530	Ant1	84.23	0.75
802.11ac (VHT80)	5610	Ant0	84.23	0.75
802.11ac (VHT80)	5610	Ant1	84.23	0.75

3.2 Test Plots

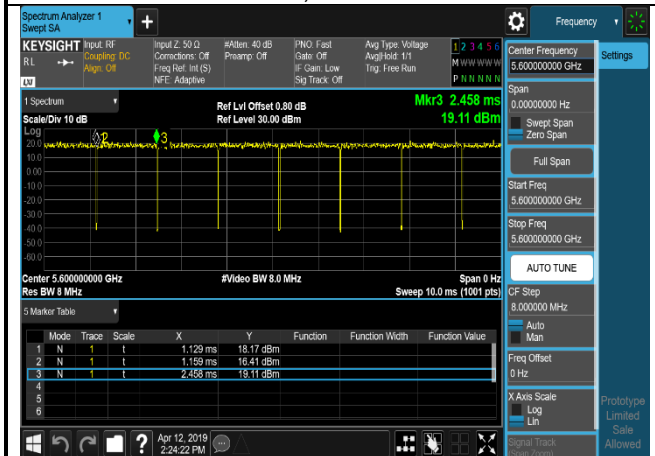




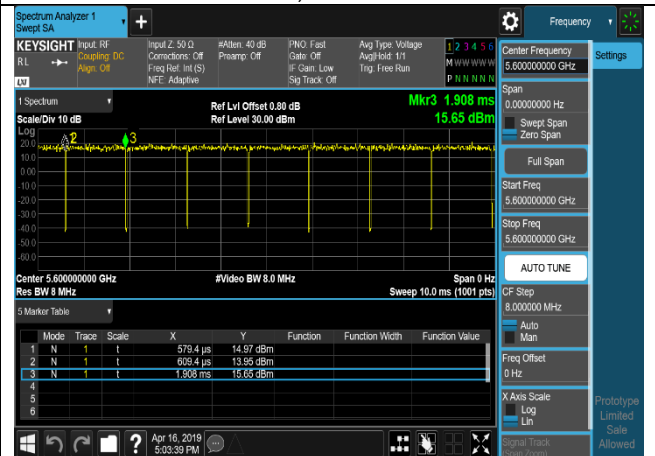
U-NII-2c,802.11n(HT20),5600MHz
,Ant0



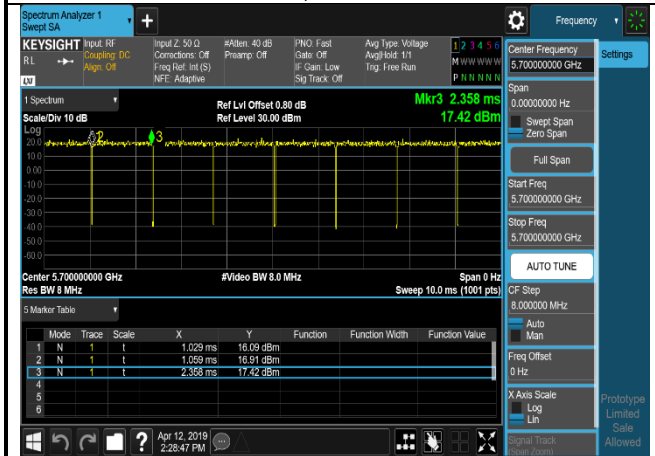
U-NII-2c,802.11n(HT20),5600MHz
,Ant1



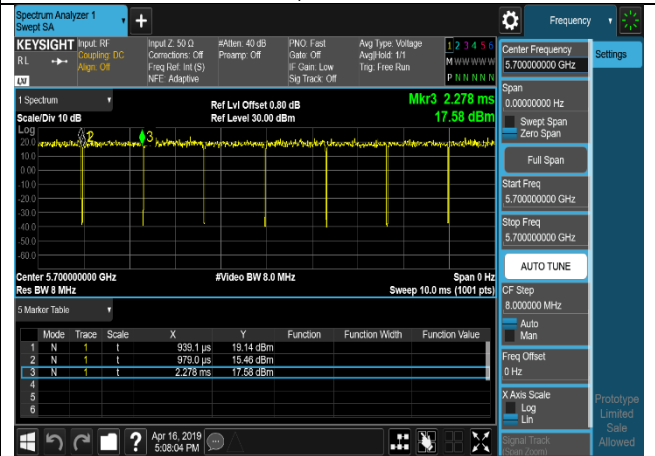
U-NII-2c,802.11n(HT20),5700MHz
,Ant0



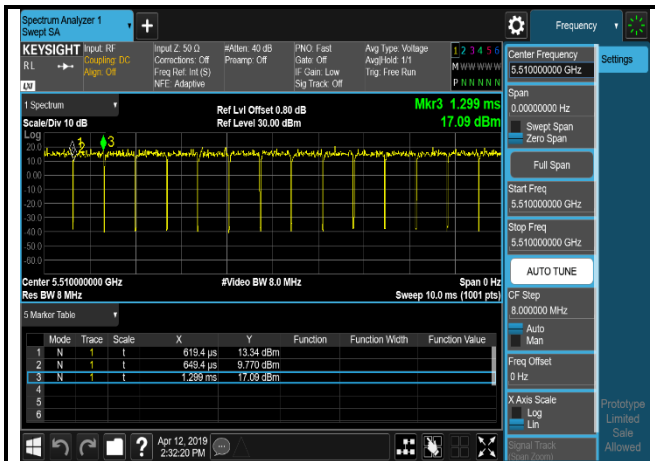
U-NII-2c,802.11n(HT20),5700MHz
,Ant1



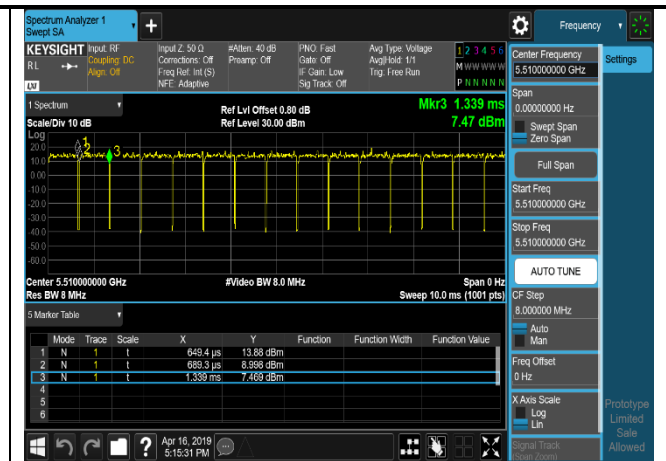
U-NII-2c,802.11n(HT40),5510MHz
,Ant0



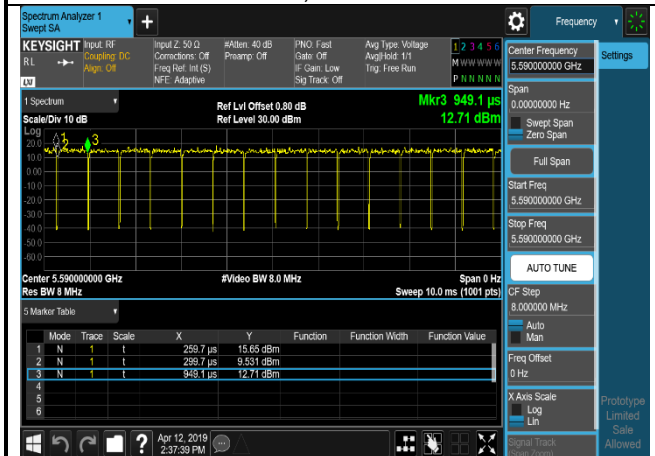
U-NII-2c,802.11n(HT40),5510MHz
,Ant1



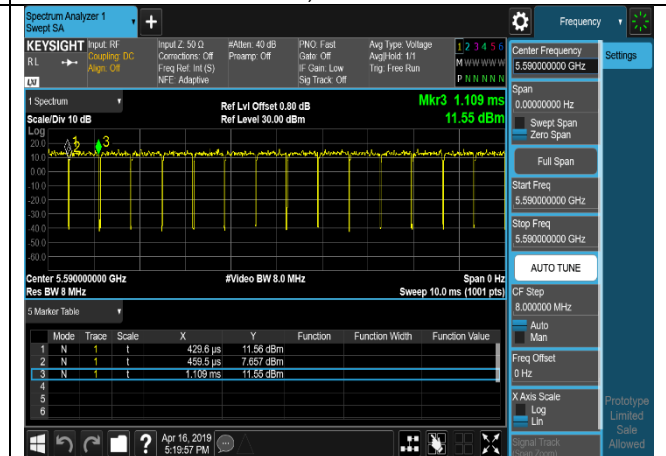
U-NII-2c,802.11n(HT40),5590MHz
,Ant0



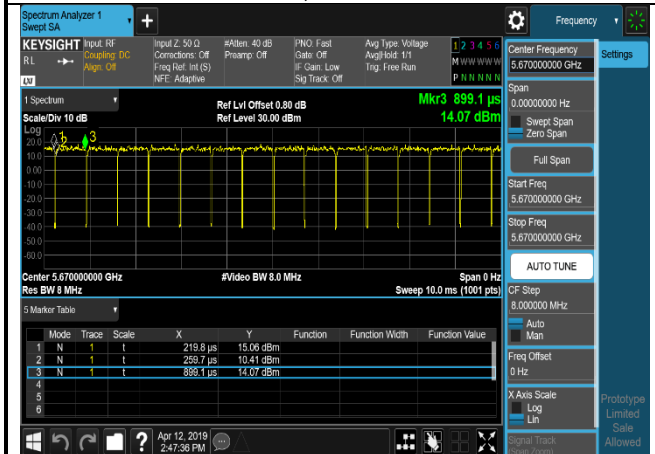
U-NII-2c,802.11n(HT40),5590MHz
,Ant1



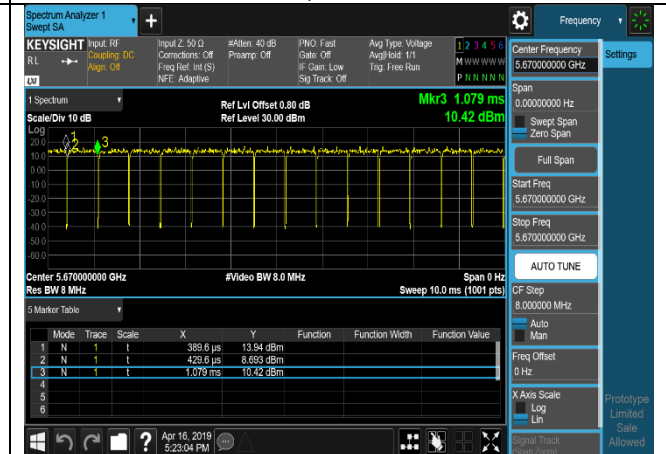
U-NII-2c,802.11n(HT40),5670MHz
,Ant0



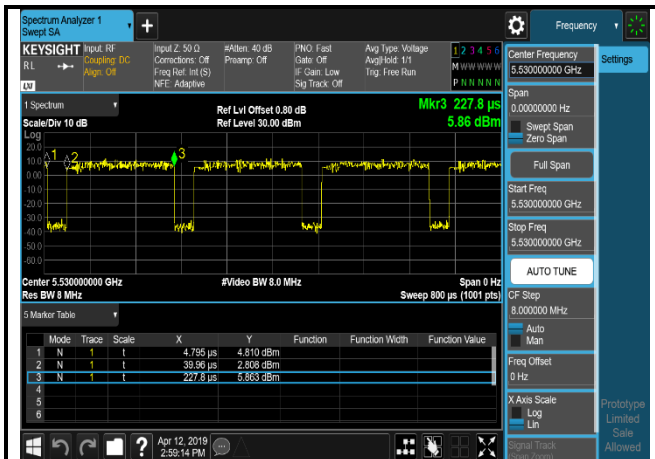
U-NII-2c,802.11n(HT40),5670MHz
,Ant1



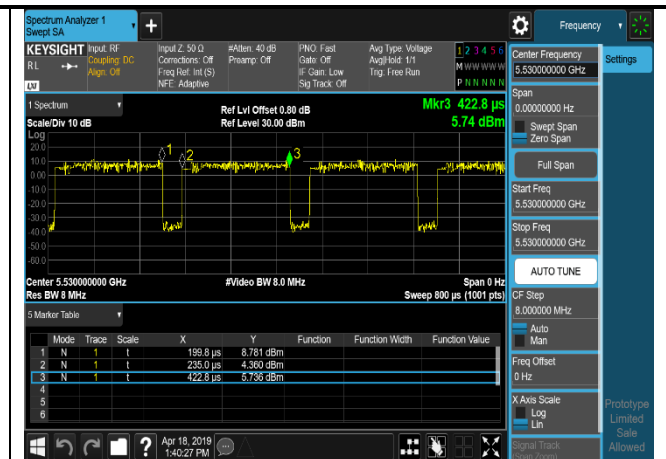
U-NII-2c,802.11ac(VHT80),5530MHz
,Ant0



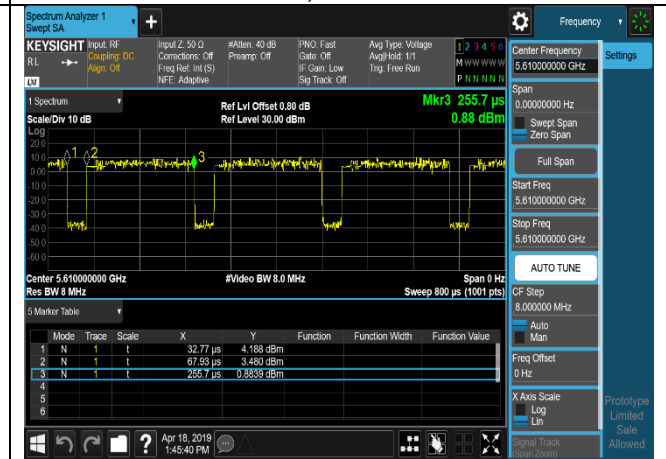
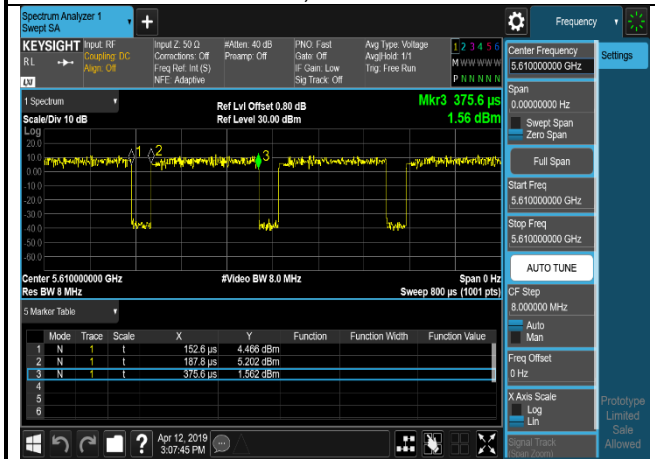
U-NII-2c,802.11ac(VHT80),5530MHz
,Ant1



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



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



4. AVGSA Output Power

4.1 Test Data

Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Total Power (dBm)	FCC Power Limit (dBm)	IC Power Limit (dBm)	EIRP (dBm)	Result
802.11a	5500	Ant0	0.09	14.71	14.71	24	23	18.23	Pass
802.11a	5500	Ant1	0.12	14.19	14.19	24	23	17.63	Pass
802.11a	5600	Ant0	0.12	14.66	14.66	24	23	18.18	Pass
802.11a	5600	Ant1	0.12	13.38	13.38	24	23	16.82	Pass
802.11a	5700	Ant0	0.12	15.19	15.19	24	23	18.71	Pass
802.11a	5700	Ant1	0.09	14.61	14.61	24	23	18.05	Pass
802.11n (HT20)	5500	Ant0	0.13	13.55	16.26	24	23	19.74	Pass
802.11n (HT20)	5500	Ant1	0.10	12.93					
802.11n (HT20)	5600	Ant0	0.10	13.40	15.66	24	23	19.14	Pass
802.11n (HT20)	5600	Ant1	0.10	11.74					
802.11n (HT20)	5700	Ant0	0.10	14.05	16.71	24	23	20.19	Pass
802.11n (HT20)	5700	Ant1	0.13	13.31					
802.11n (HT40)	5510	Ant0	0.20	13.37	16.07	24	24	19.55	Pass
802.11n (HT40)	5510	Ant1	0.26	12.72					
802.11n (HT40)	5590	Ant0	0.26	13.33	15.49	24	24	18.97	Pass
802.11n (HT40)	5590	Ant1	0.20	11.42					
802.11n (HT40)	5670	Ant0	0.26	13.73	16.08	24	24	19.56	Pass
802.11n (HT40)	5670	Ant1	0.26	12.29					
802.11ac (VHT80)	5530	Ant0	0.75	10.63	13.39	24	24	16.87	Pass
802.11ac (VHT80)	5530	Ant1	0.75	10.11					
802.11ac (VHT80)	5610	Ant0	0.75	10.29	12.67	24	24	16.15	Pass
802.11ac (VHT80)	5610	Ant1	0.75	8.92					