Appendix A: Test results

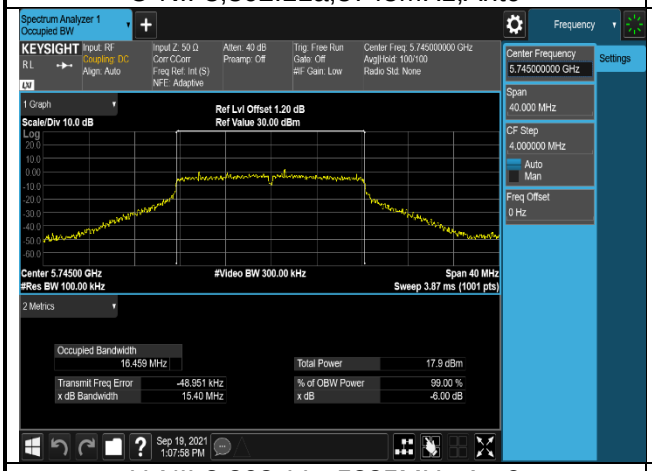
1. Occupied N dB Bandwidth

1.1 Test Data

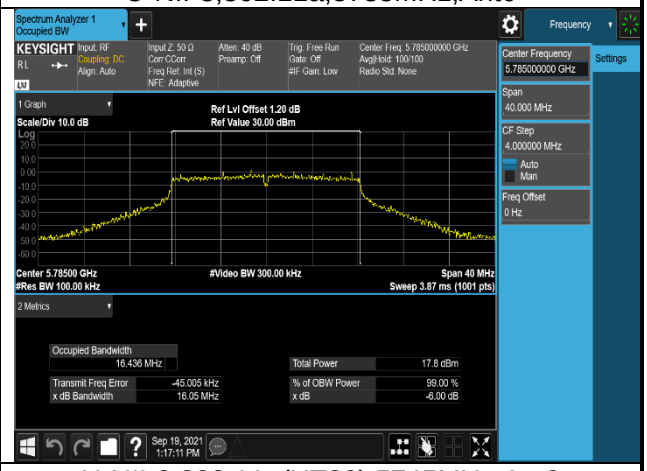
U-NII-3 Occupied N dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11a	5745	Ant0	15.40	Pass
802.11a	5785	Ant0	16.05	Pass
802.11a	5825	Ant0	16.27	Pass
802.11n (HT20)	5745	Ant0	16.54	Pass
802.11n (HT20)	5785	Ant0	15.19	Pass
802.11n (HT20)	5825	Ant0	17.03	Pass
802.11n (HT40)	5755	Ant0	35.31	Pass
802.11n (HT40)	5795	Ant0	35.81	Pass
802.11ac (VHT80)	5775	Ant0	75.17	Pass

1.2 Test Plots

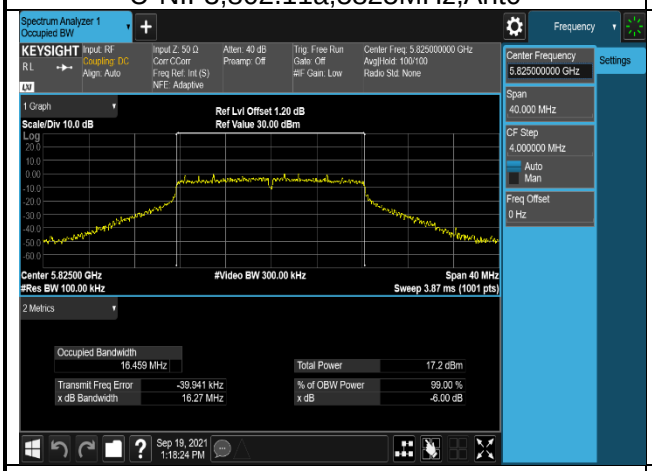
U-NII-3,802.11a,5745MHz,Ant0



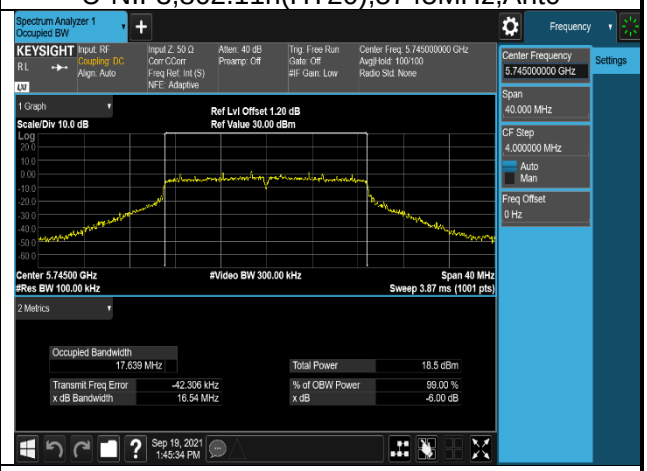
U-NII-3,802.11a,5785MHz,Ant0



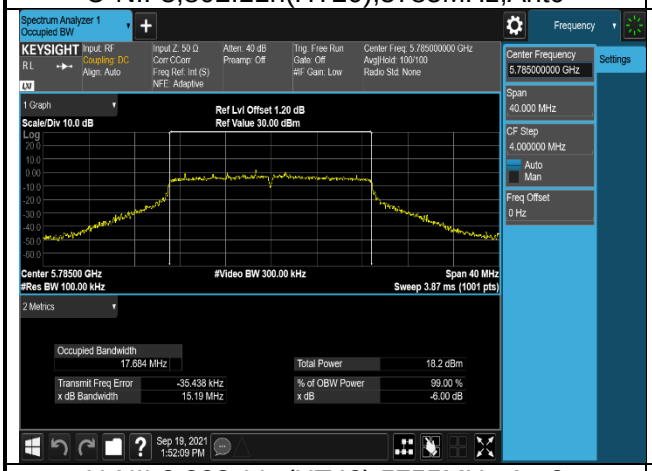
U-NII-3,802.11a,5825MHz,Ant0



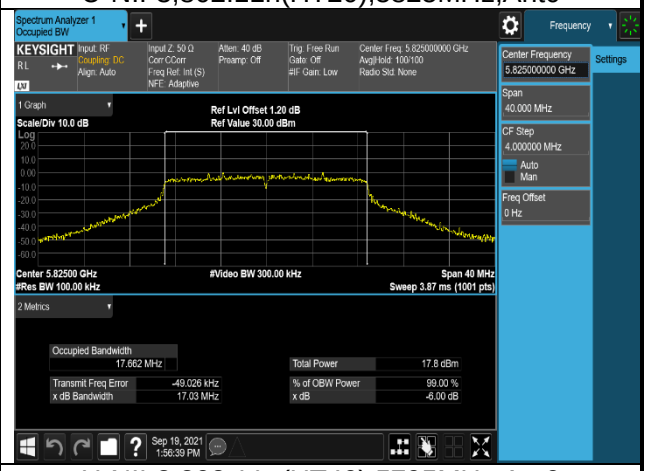
U-NII-3,802.11n(HT20),5745MHz,Ant0



U-NII-3,802.11n(HT20),5785MHz,Ant0

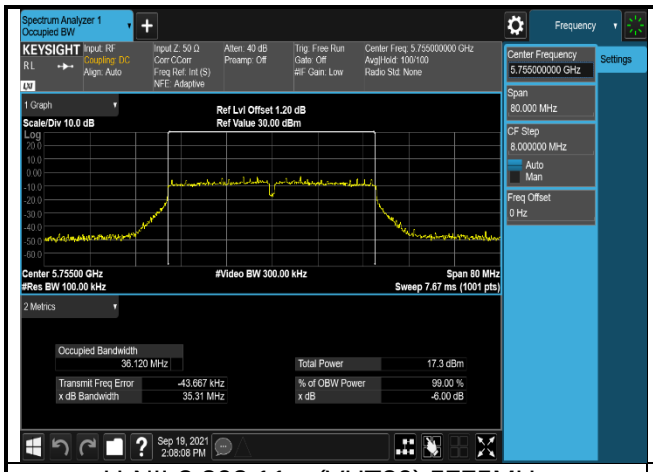


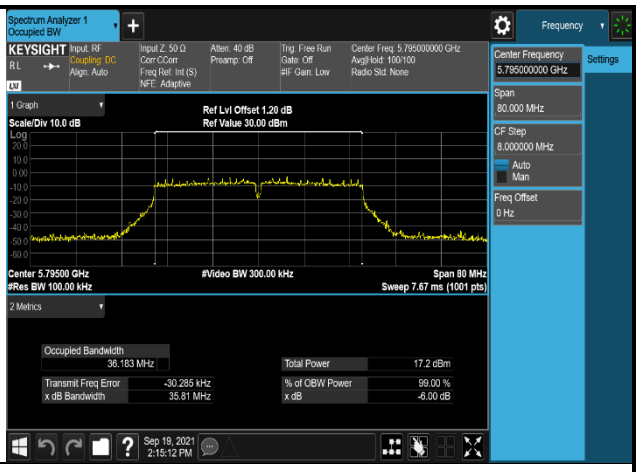
U-NII-3,802.11n(HT20),5825MHz,Ant0



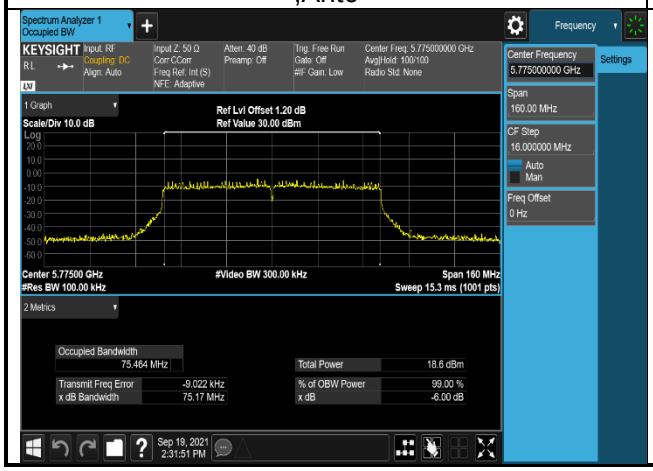
U-NII-3,802.11n(HT40),5755MHz,Ant0

U-NII-3,802.11n(HT40),5795MHz,Ant0





U-NII-3,802.11ac(VHT80),5775MHz ,Ant0



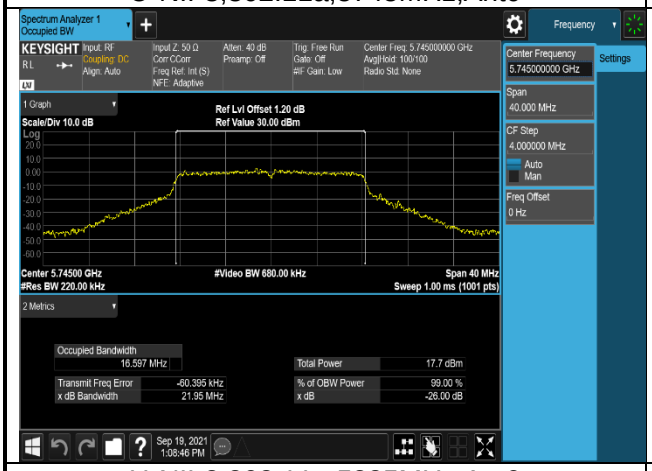
2. 99% Occupied Bandwidth

2.1 Test Data

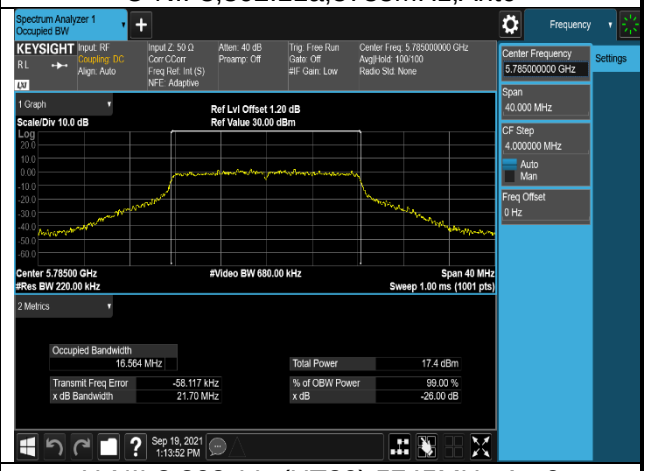
U-NII-3 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11a	5745	Ant0	16.597	Pass
802.11a	5785	Ant0	16.564	Pass
802.11a	5825	Ant0	16.620	Pass
802.11n (HT20)	5745	Ant0	17.818	Pass
802.11n (HT20)	5785	Ant0	17.764	Pass
802.11n (HT20)	5825	Ant0	17.792	Pass
802.11n (HT40)	5755	Ant0	36.319	Pass
802.11n (HT40)	5795	Ant0	36.139	Pass
802.11ac (VHT80)	5775	Ant0	75.778	Pass

2.2 Test Plots

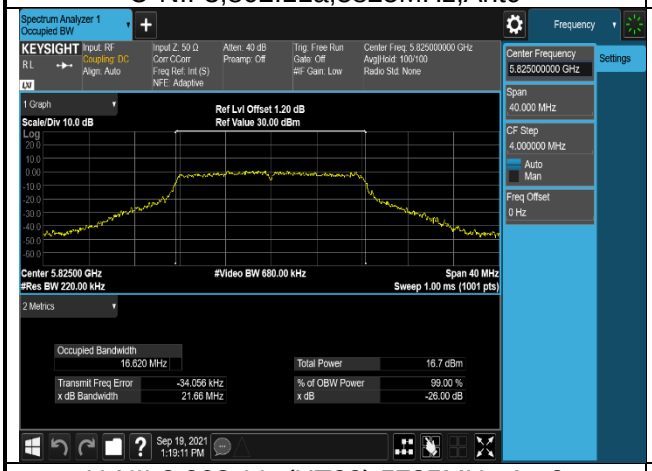
U-NII-3,802.11a,5745MHz,Ant0



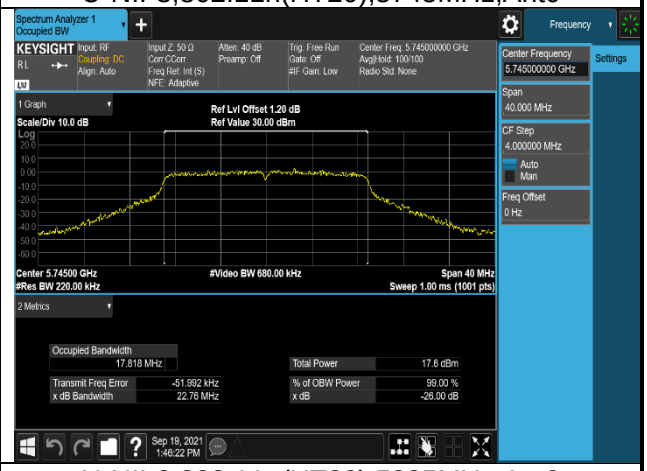
U-NII-3,802.11a,5785MHz,Ant0



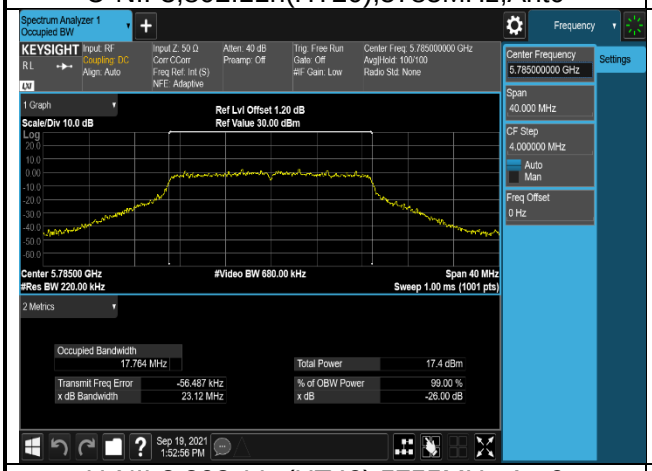
U-NII-3,802.11a,5825MHz,Ant0



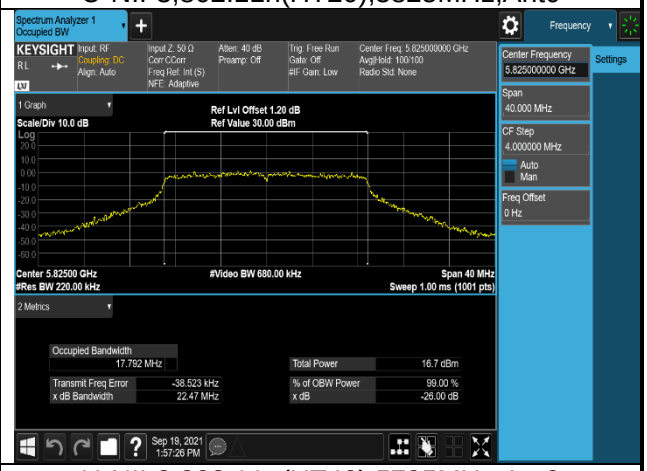
U-NII-3,802.11n(HT20),5745MHz,Ant0



U-NII-3,802.11n(HT20),5785MHz,Ant0

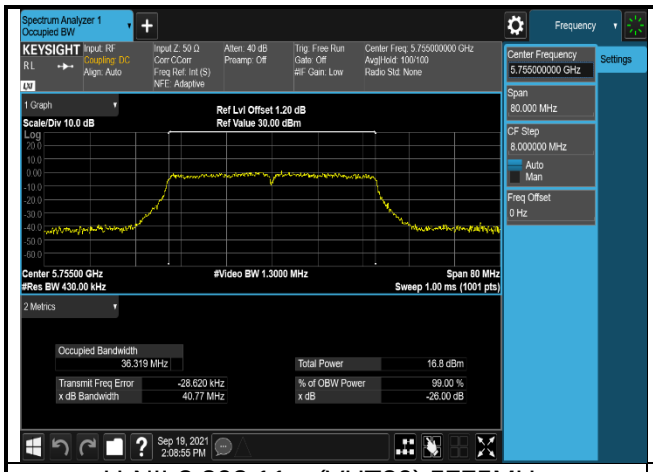


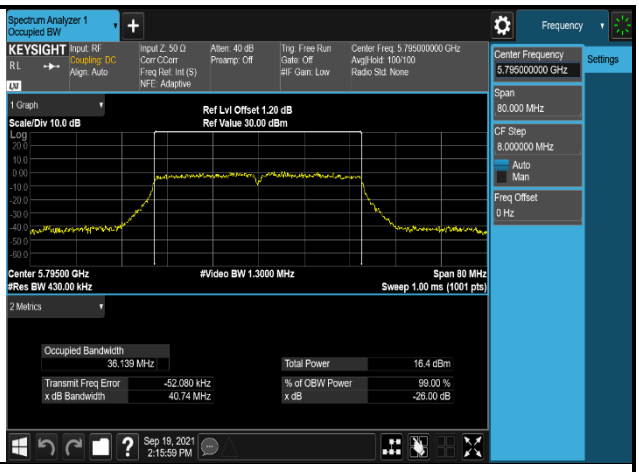
U-NII-3,802.11n(HT20),5825MHz,Ant0



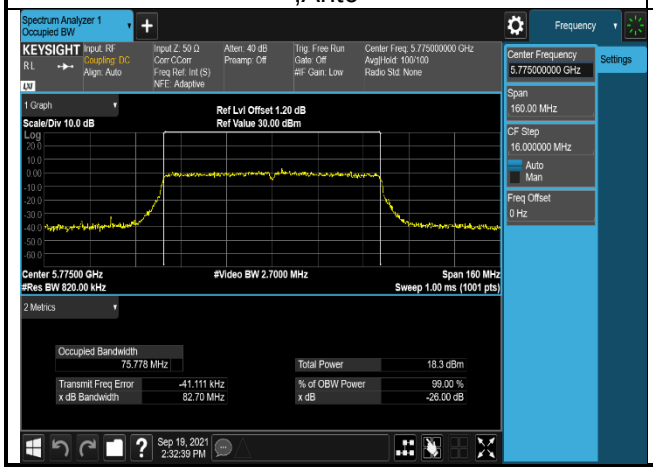
U-NII-3,802.11n(HT40),5755MHz,Ant0

U-NII-3,802.11n(HT40),5795MHz,Ant0





U-NII-3,802.11ac(VHT80),5775MHz ,Ant0



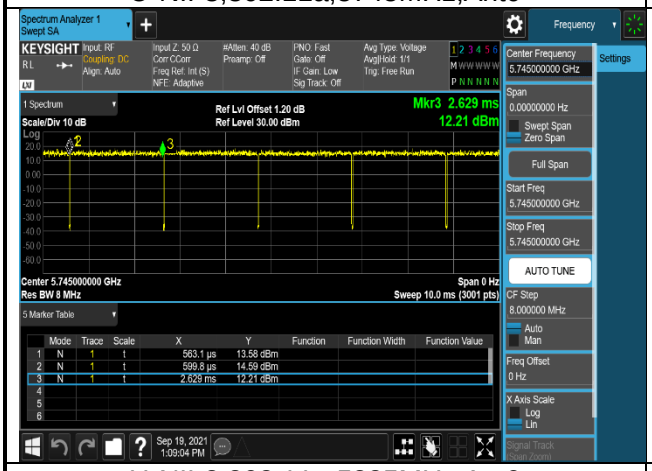
3. Duty Cycle

3.1 Test Data

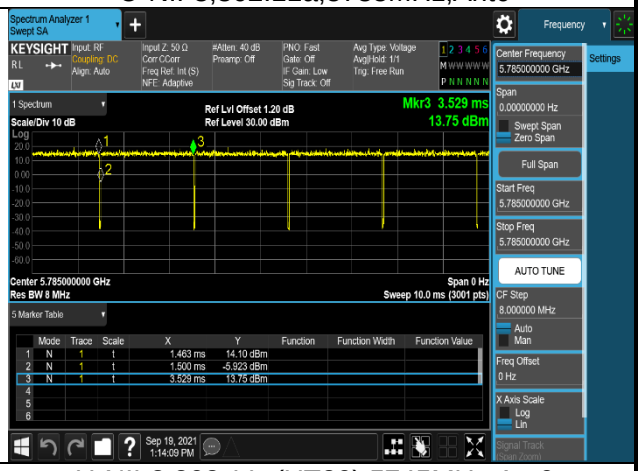
U-NII-3 Duty Cycle				
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11a	5745	Ant0	98.23	0.00
802.11a	5785	Ant0	98.23	0.00
802.11a	5825	Ant0	98.23	0.00
802.11n (HT20)	5745	Ant0	98.08	0.00
802.11n (HT20)	5785	Ant0	98.08	0.00
802.11n (HT20)	5825	Ant0	97.89	0.09
802.11n (HT40)	5755	Ant0	95.80	0.19
802.11n (HT40)	5795	Ant0	95.82	0.19
802.11ac (VHT80)	5775	Ant0	92.22	0.35

3.2 Test Plots

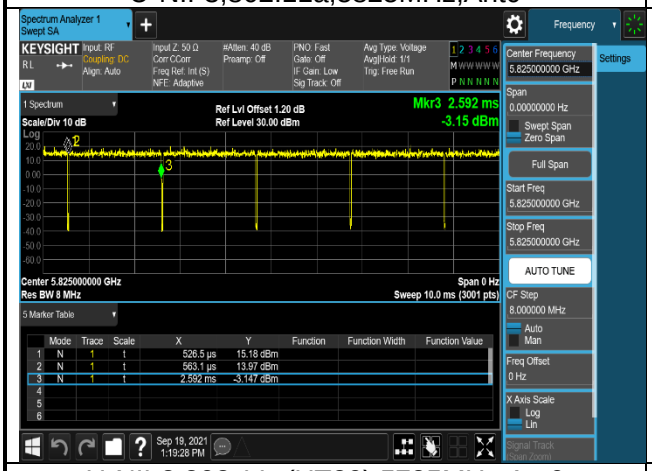
U-NII-3,802.11a,5745MHz,Ant0



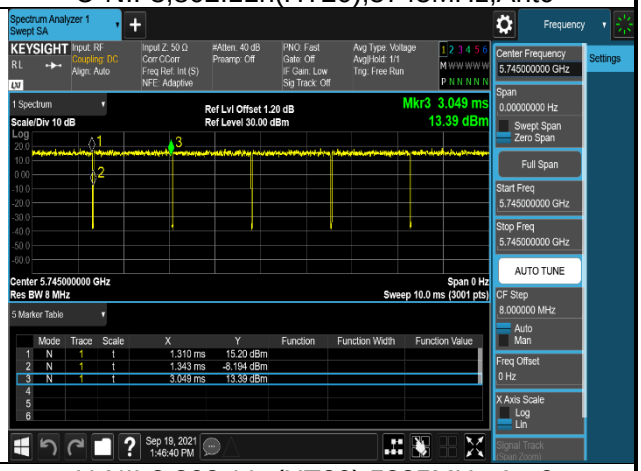
U-NII-3,802.11a,5785MHz,Ant0



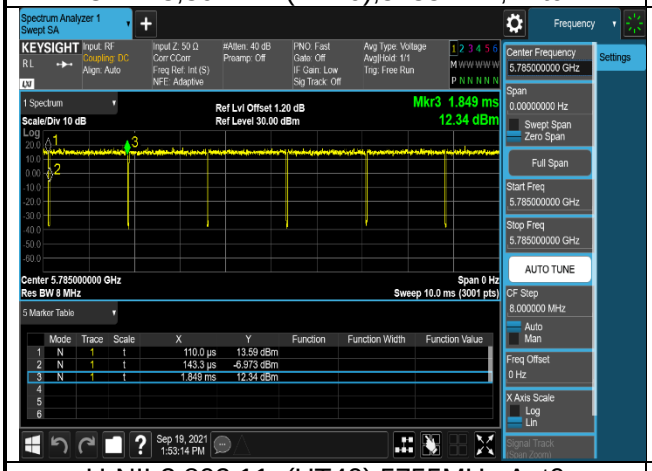
U-NII-3,802.11a,5825MHz,Ant0



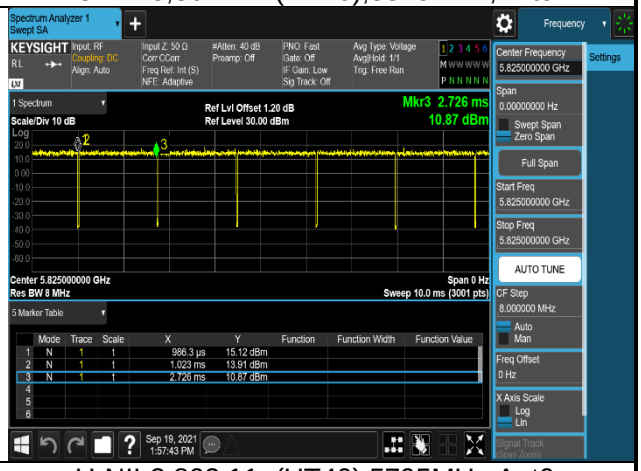
U-NII-3,802.11n(HT20),5745MHz,Ant0



U-NII-3,802.11n(HT20),5785MHz,Ant0

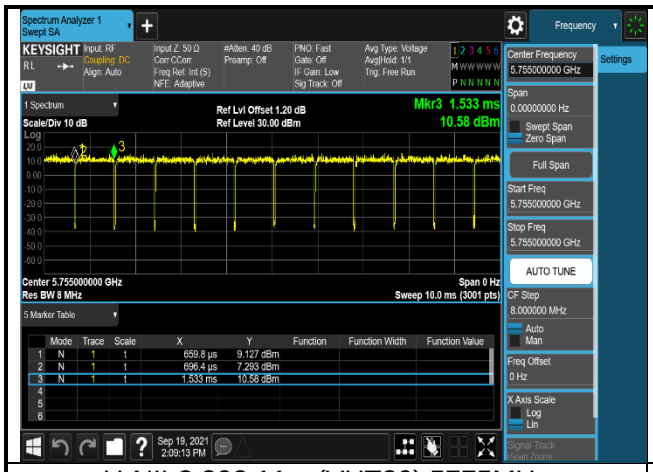


U-NII-3,802.11n(HT20),5825MHz,Ant0

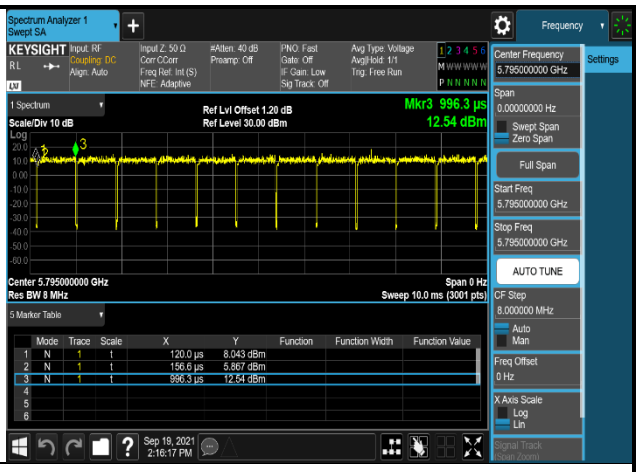


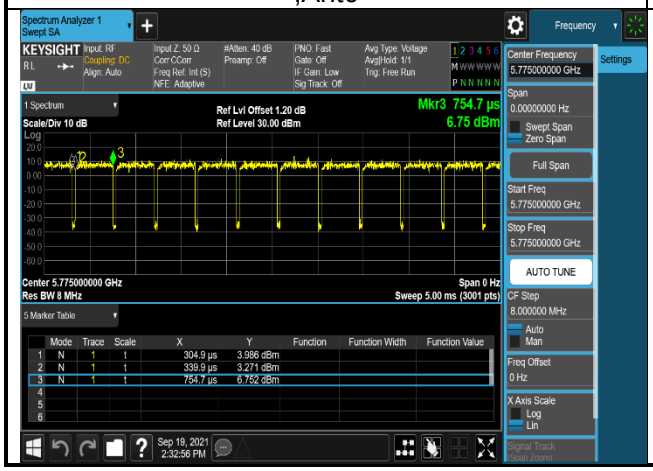
U-NII-3,802.11n(HT40),5755MHz,Ant0

U-NII-3,802.11n(HT40),5795MHz,Ant0



U-NII-3,802.11ac(VHT80),5775MHz ,Ant0





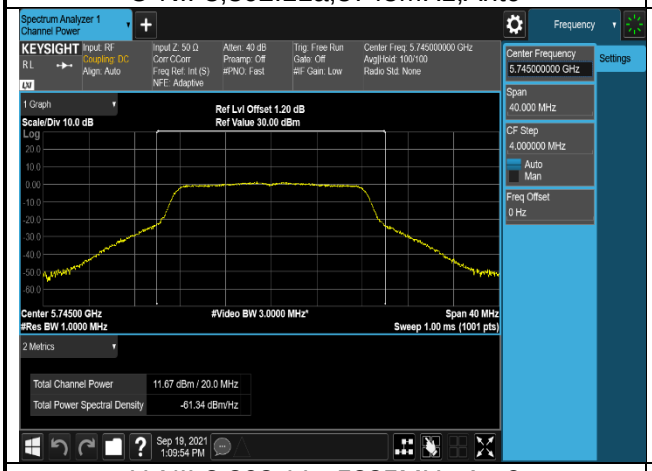
4. AVGSA Output Power

4.1 Test Data

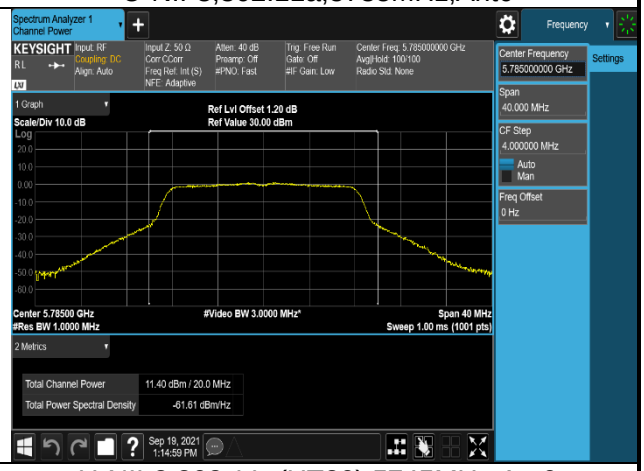
U-NII-3 AVGSA Output Power							
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Limit (dBm)	EIRP (dBm)	Result
802.11a	5745	Ant0	0.00	11.67	30	13.67	Pass
802.11a	5785	Ant0	0.00	11.40	30	13.40	Pass
802.11a	5825	Ant0	0.00	10.69	30	12.69	Pass
802.11n (HT20)	5745	Ant0	0.00	11.86	30	13.86	Pass
802.11n (HT20)	5785	Ant0	0.00	11.43	30	13.43	Pass
802.11n (HT20)	5825	Ant0	0.09	10.89	30	12.89	Pass
802.11n (HT40)	5755	Ant0	0.19	10.48	30	12.48	Pass
802.11n (HT40)	5795	Ant0	0.19	10.13	30	12.13	Pass
802.11ac (VHT80)	5775	Ant0	0.35	10.98	30	12.98	Pass

4.2 Test Plots

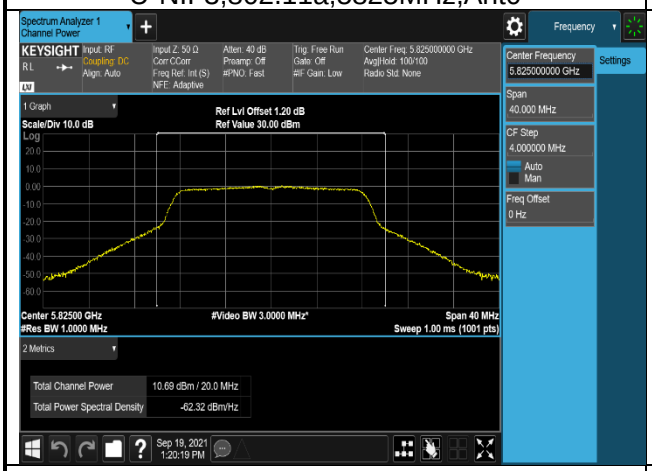
U-NII-3,802.11a,5745MHz,Ant0



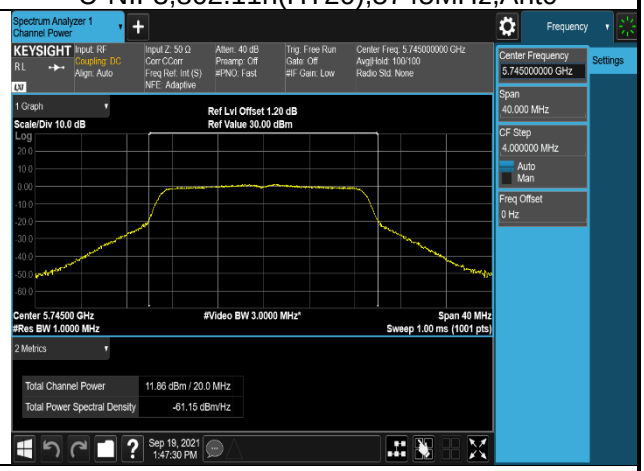
U-NII-3,802.11a,5785MHz,Ant0



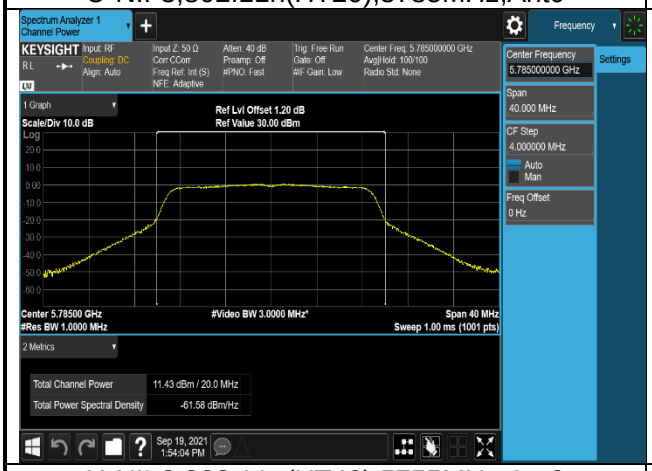
U-NII-3,802.11a,5825MHz,Ant0



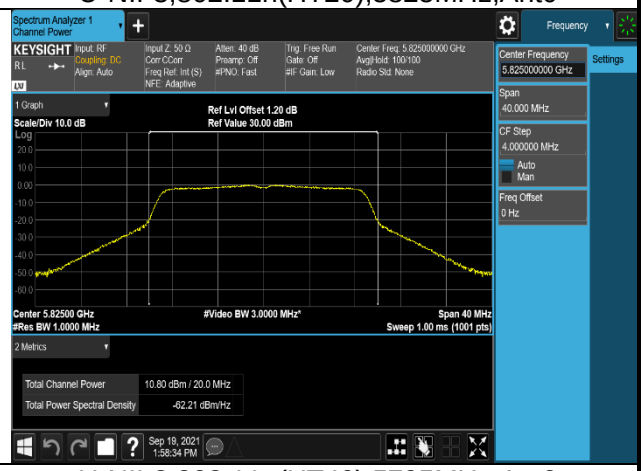
U-NII-3,802.11n(HT20),5745MHz,Ant0



U-NII-3,802.11n(HT20),5785MHz,Ant0

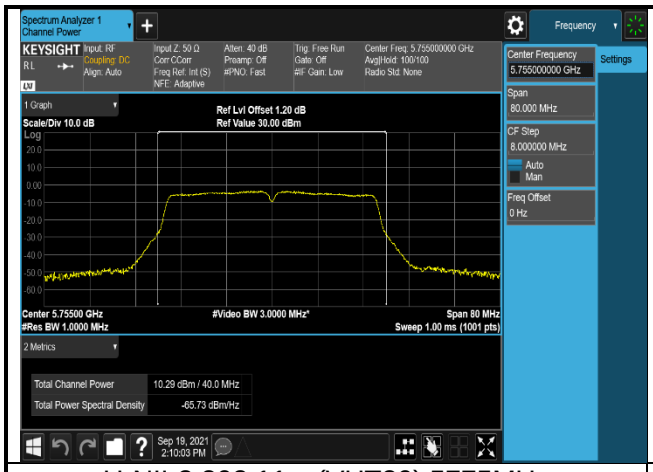


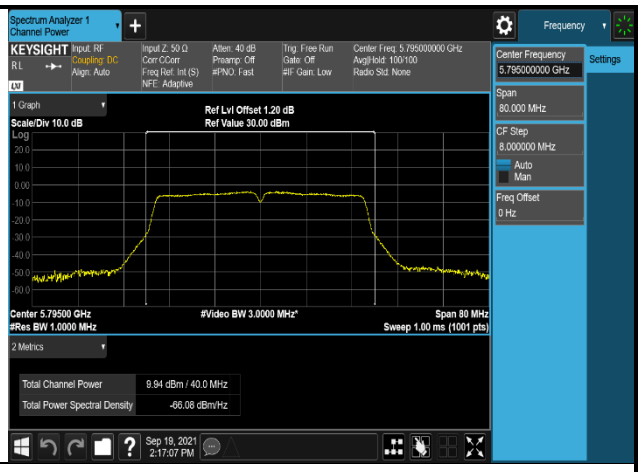
U-NII-3,802.11n(HT20),5825MHz,Ant0



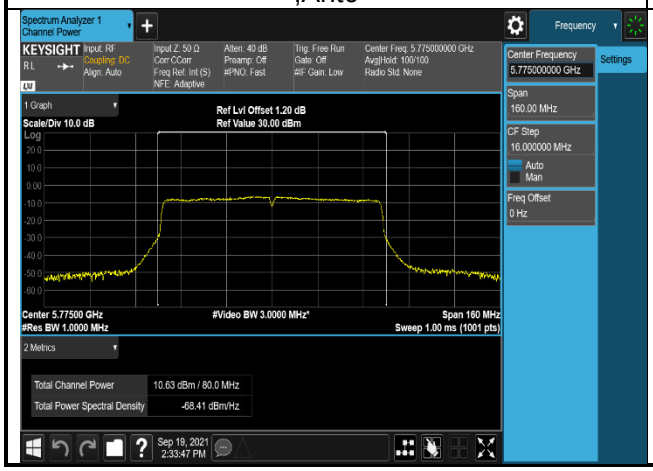
U-NII-3,802.11n(HT40),5755MHz,Ant0

U-NII-3,802.11n(HT40),5795MHz,Ant0





U-NII-3,802.11ac(VHT80),5775MHz ,Ant0



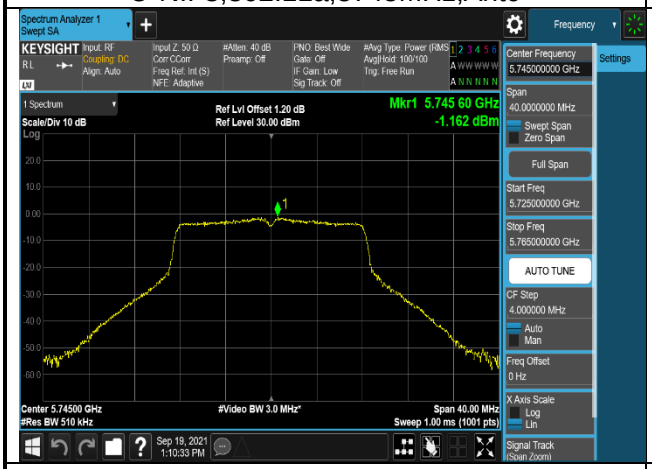
5. AVGSA Power Spectral Density

5.1 Test Data

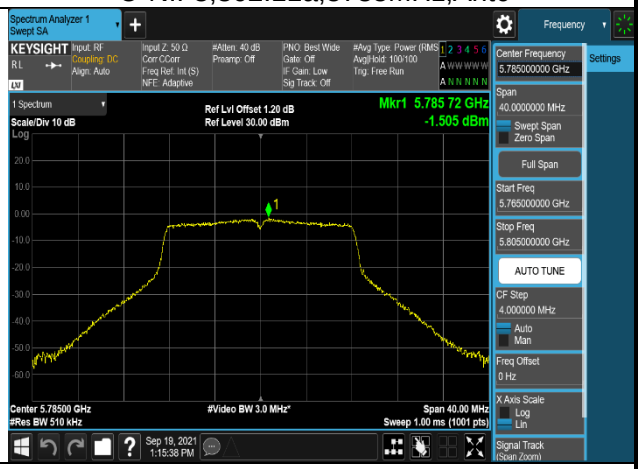
U-NII-3 AVGSA Power Spectral Density							
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	PSD (dBm)	RBW (kHz)	Limit (dBm)	Result
802.11a	5745	Ant0	0.00	-1.162	510	30	Pass
802.11a	5785	Ant0	0.00	-1.505	510	30	Pass
802.11a	5825	Ant0	0.00	-2.265	510	30	Pass
802.11n (HT20)	5745	Ant0	0.00	-1.528	510	30	Pass
802.11n (HT20)	5785	Ant0	0.00	-2.061	510	30	Pass
802.11n (HT20)	5825	Ant0	0.09	-2.556	510	30	Pass
802.11n (HT40)	5755	Ant0	0.19	-6.181	510	30	Pass
802.11n (HT40)	5795	Ant0	0.19	-6.571	510	30	Pass
802.11ac (VHT80)	5775	Ant0	0.35	-8.918	510	30	Pass

5.2 Test Plots

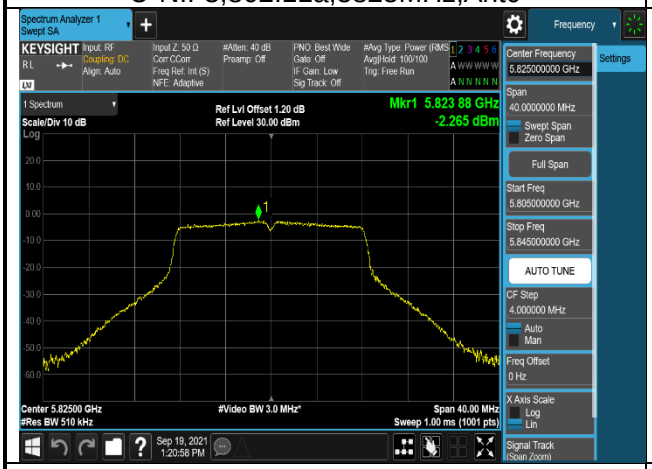
U-NII-3,802.11a,5745MHz,Ant0



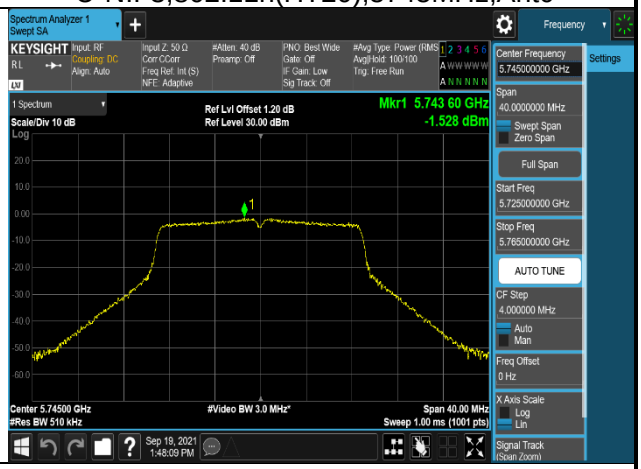
U-NII-3,802.11a,5785MHz,Ant0



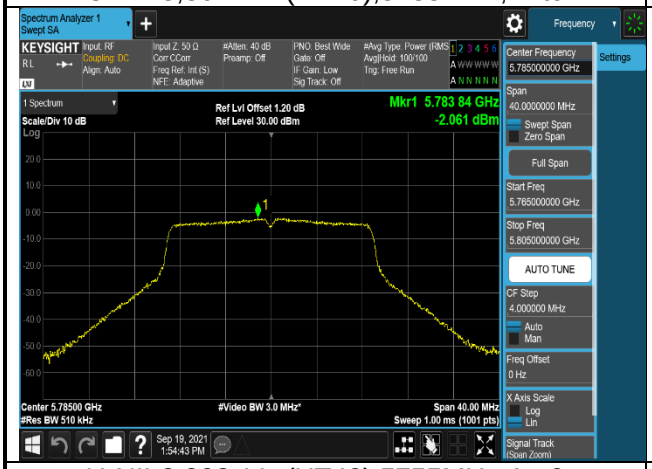
U-NII-3,802.11a,5825MHz,Ant0



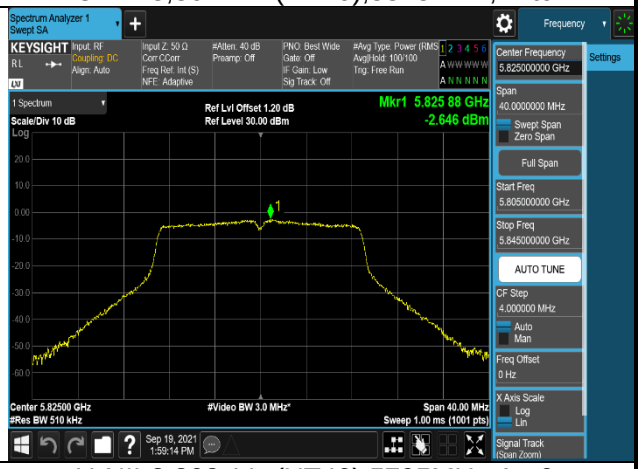
U-NII-3,802.11n(HT20),5745MHz,Ant0



U-NII-3,802.11n(HT20),5785MHz,Ant0

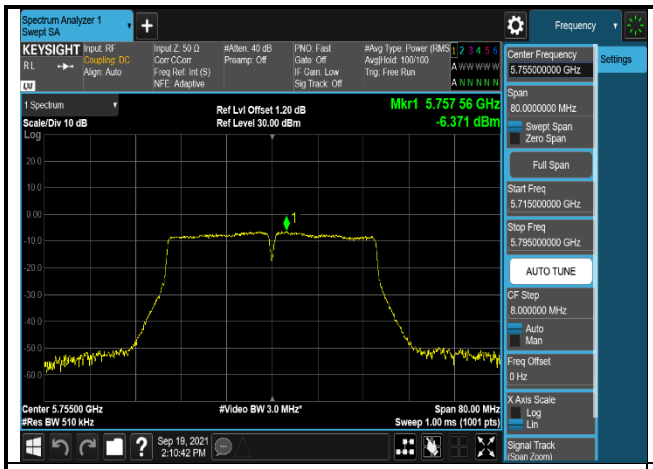


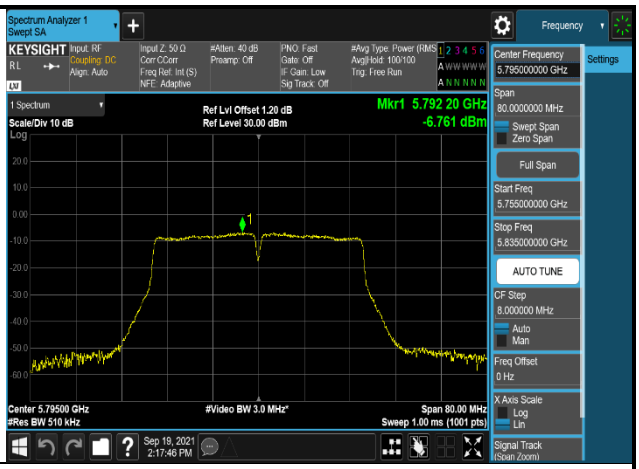
U-NII-3,802.11n(HT20),5825MHz,Ant0



U-NII-3,802.11n(HT40),5755MHz,Ant0

U-NII-3,802.11n(HT40),5795MHz,Ant0





U-NII-3,802.11ac(VHT80),5775MHz ,Ant0