Appendix D: Test results

Power level setting using in test:

Channel	802.11a	802.11n(HT20)
149	13	13
157	13	13
165	13	13

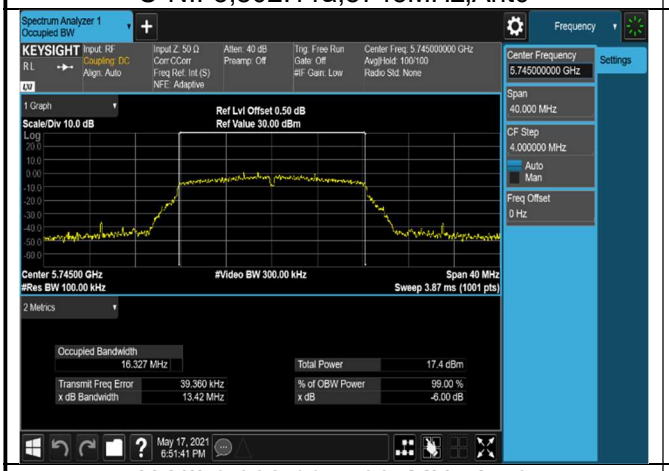
1. Occupied N dB Bandwidth

1.1 Test Data

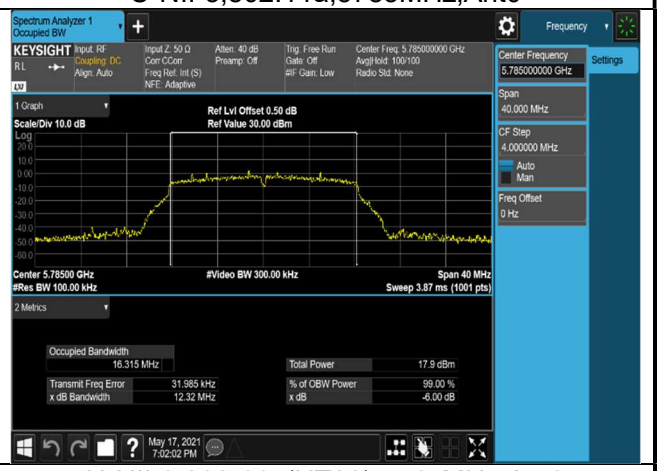
U-NII-3 Occupied N dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11a	5745	Ant0	13.42	Pass
802.11a	5785	Ant0	12.32	Pass
802.11a	5825	Ant0	13.41	Pass
802.11n (HT20)	5745	Ant0	12.61	Pass
802.11n (HT20)	5785	Ant0	14.59	Pass
802.11n (HT20)	5825	Ant0	13.18	Pass

1.2 Test Plots

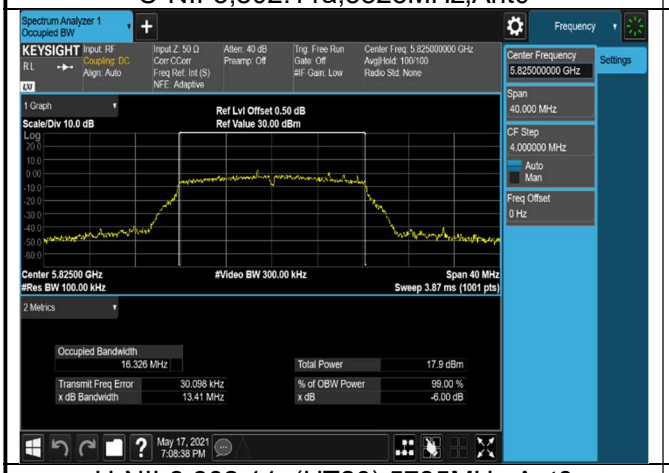
U-NII-3,802.11a,5745MHz,Ant0



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



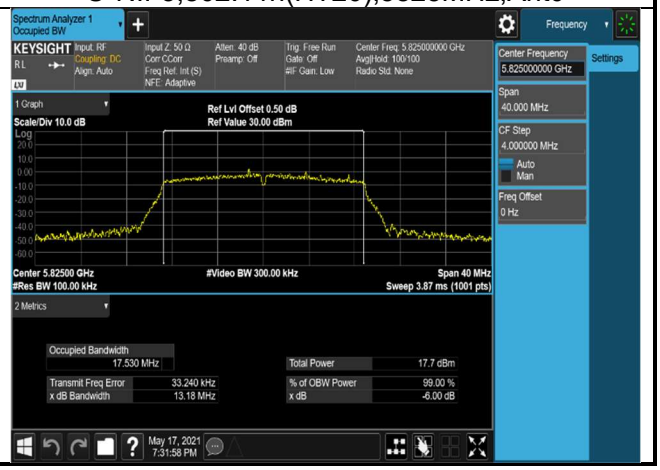
U-NII-3,802.11a,5825MHz,Ant0



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

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

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



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	16.370	Pass
802.11a	5785	Ant0	16.417	Pass
802.11a	5825	Ant0	16.371	Pass
802.11n (HT20)	5745	Ant0	17.500	Pass
802.11n (HT20)	5785	Ant0	17.541	Pass
802.11n (HT20)	5825	Ant0	17.505	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

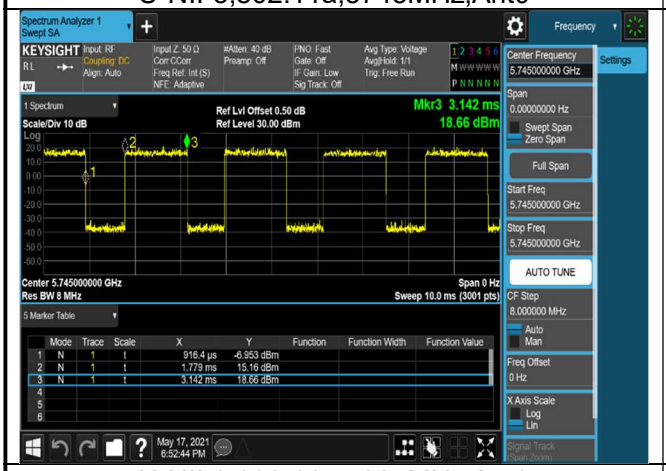
3. Duty Cycle

3.1 Test Data

U-NII-3 Duty Cycle				
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11a	5745	Ant0	61.23	2.13
802.11a	5785	Ant0	62.69	2.03
802.11a	5825	Ant0	62.54	2.04
802.11n (HT20)	5745	Ant0	58.21	2.35
802.11n (HT20)	5785	Ant0	58.14	2.36
802.11n (HT20)	5825	Ant0	58.21	2.35

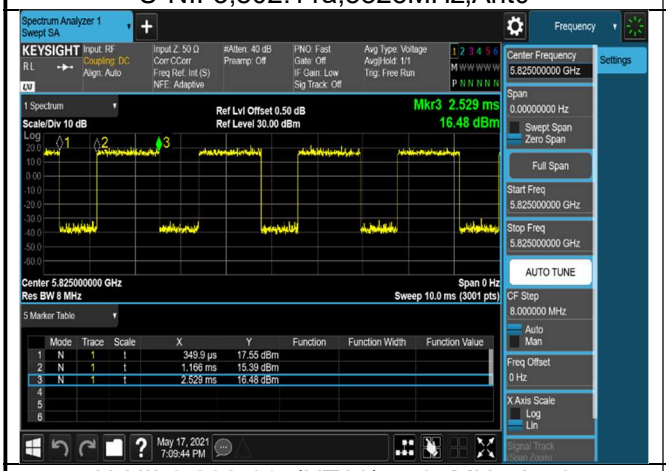
3.2 Test Plots

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

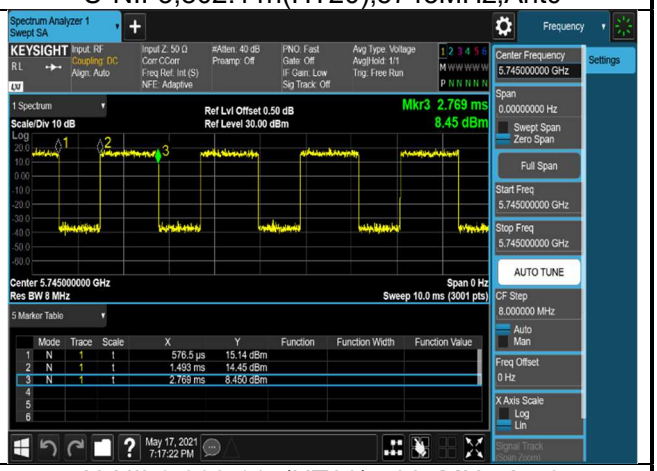


U-NII-3,802.11a,5785MHz,Ant0

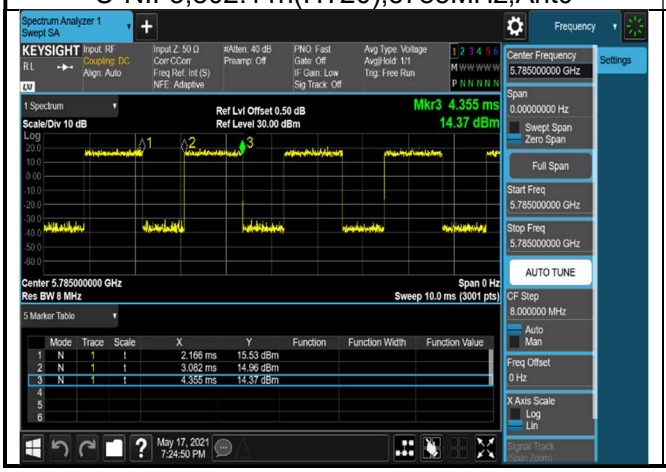
U-NII-3,802.11a,5825MHz,Ant0



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



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



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

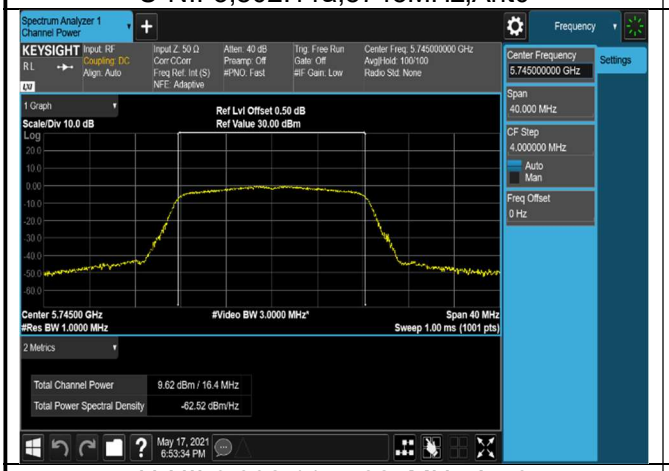
4. AVGSA Output Power

4.1 Test Data

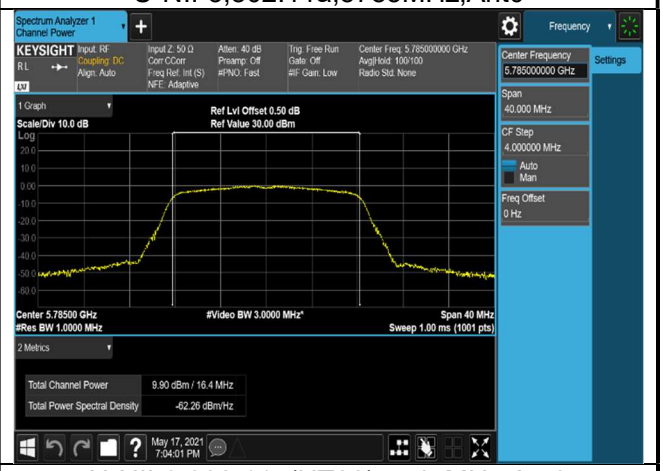
U-NII-3 AVGSA Output Power							
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Limit (dBm)	EIRP (dBm)	Result
802.11a	5745	Ant0	2.13	11.75	30	16.28	Pass
802.11a	5785	Ant0	2.03	11.93	30	16.46	Pass
802.11a	5825	Ant0	2.04	11.69	30	16.22	Pass
802.11n (HT20)	5745	Ant0	2.35	11.73	30	16.26	Pass
802.11n (HT20)	5785	Ant0	2.36	11.75	30	16.28	Pass
802.11n (HT20)	5825	Ant0	2.35	11.79	30	16.32	Pass

4.2 Test Plots

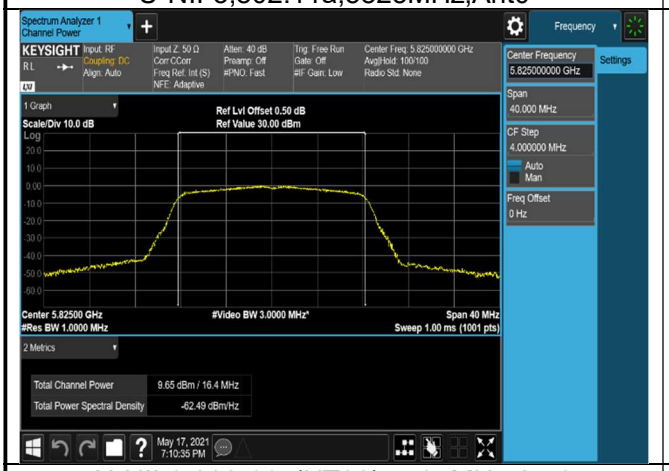
U-NII-3,802.11a,5745MHz,Ant0



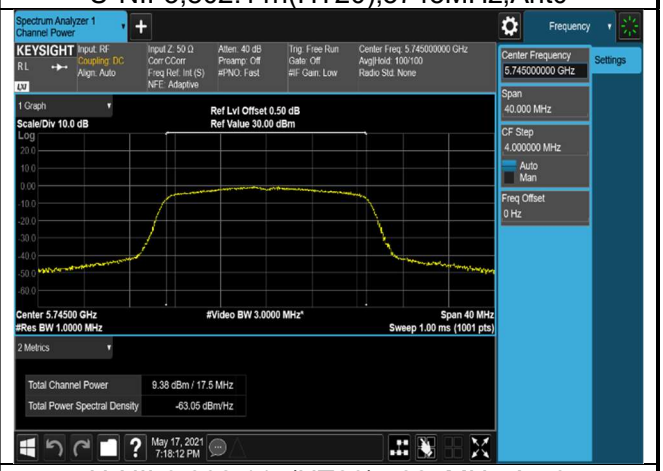
U-NII-3,802.11a,5785MHz,Ant0



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

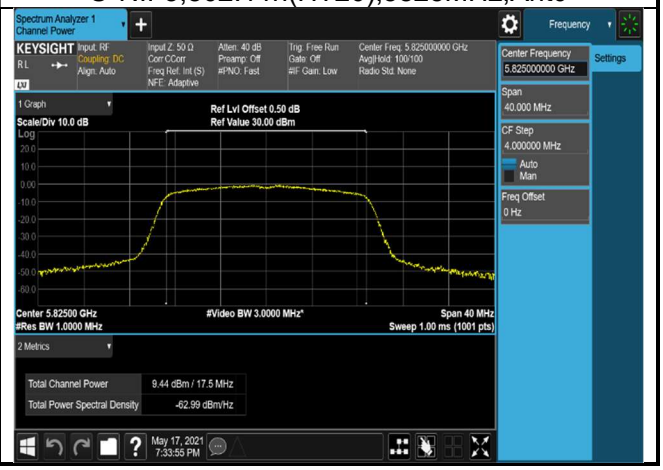


U-NII-3,802.11n(HT20),5745MHz,Ant0



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

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



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/500kHz]	RBW (kHz)	Limit [dBm/500kHz]	Result
802.11a	5745	Ant0	2.13	-0.582	500	30	Pass
802.11a	5785	Ant0	2.03	-0.540	500	30	Pass
802.11a	5825	Ant0	2.04	-0.813	500	30	Pass
802.11n (HT20)	5745	Ant0	2.35	-0.617	500	30	Pass
802.11n (HT20)	5785	Ant0	2.36	-0.849	500	30	Pass
802.11n (HT20)	5825	Ant0	2.35	-0.696	500	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