

Appendix D: Test Results for U-NII Band 3

1 Duty Cycle

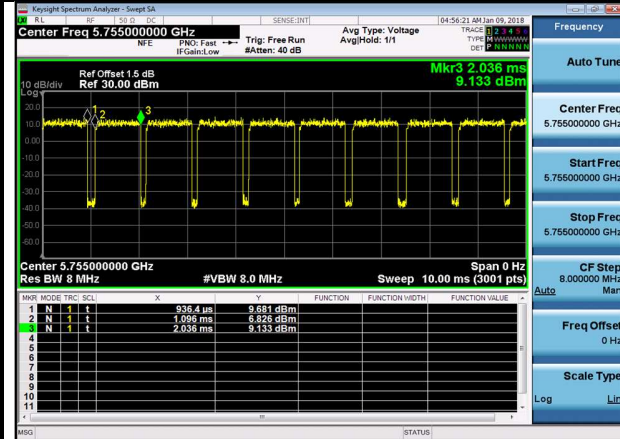
1.1 Test Data

U-NII-3 Duty Cycle				
Mode	Test Frequency(MHz)	Ant	Duty Cycle(%)	Duty Cycle Factor (dB)
802.11a	5745	Ant1	95.05	0.22
802.11a	5785	Ant1	92.05	0.36
802.11a	5825	Ant1	92.61	0.33
802.11n(HT20)	5745	Ant1	94.71	0.24
802.11n(HT20)	5785	Ant1	94.70	0.24
802.11n(HT20)	5825	Ant1	94.71	0.24
802.11n(HT40)	5755	Ant1	85.45	0.68
802.11n(HT40)	5795	Ant1	89.81	0.47
802.11ac(VHT80)	5775	Ant1	82.63	0.83

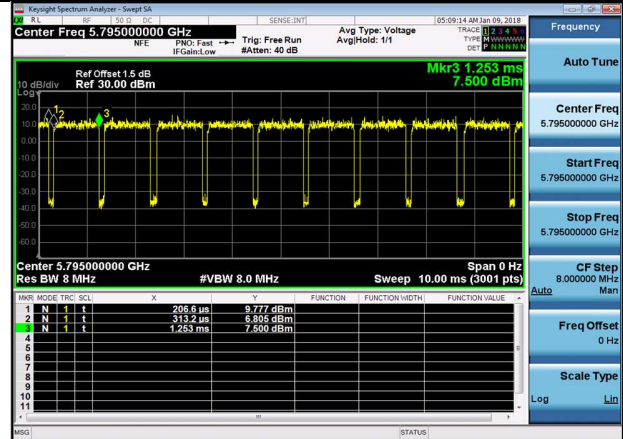
1.2 Test Plots



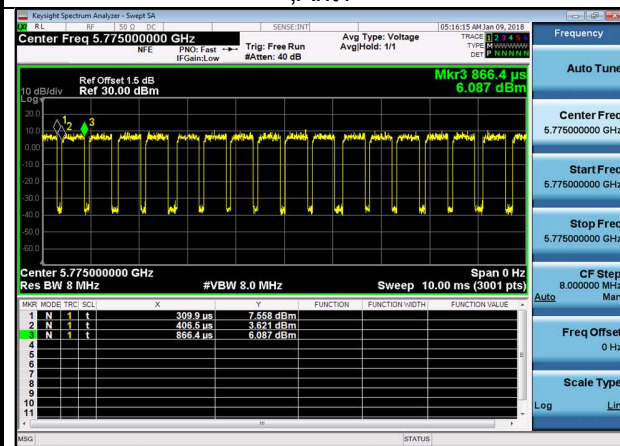
U-NII-3,802.11n(HT40),5755MHz,Ant1



U-NII-3,802.11n(HT40),5795MHz,Ant1



U-NII-3,802.11ac(VHT80),5775MHz
,Ant1

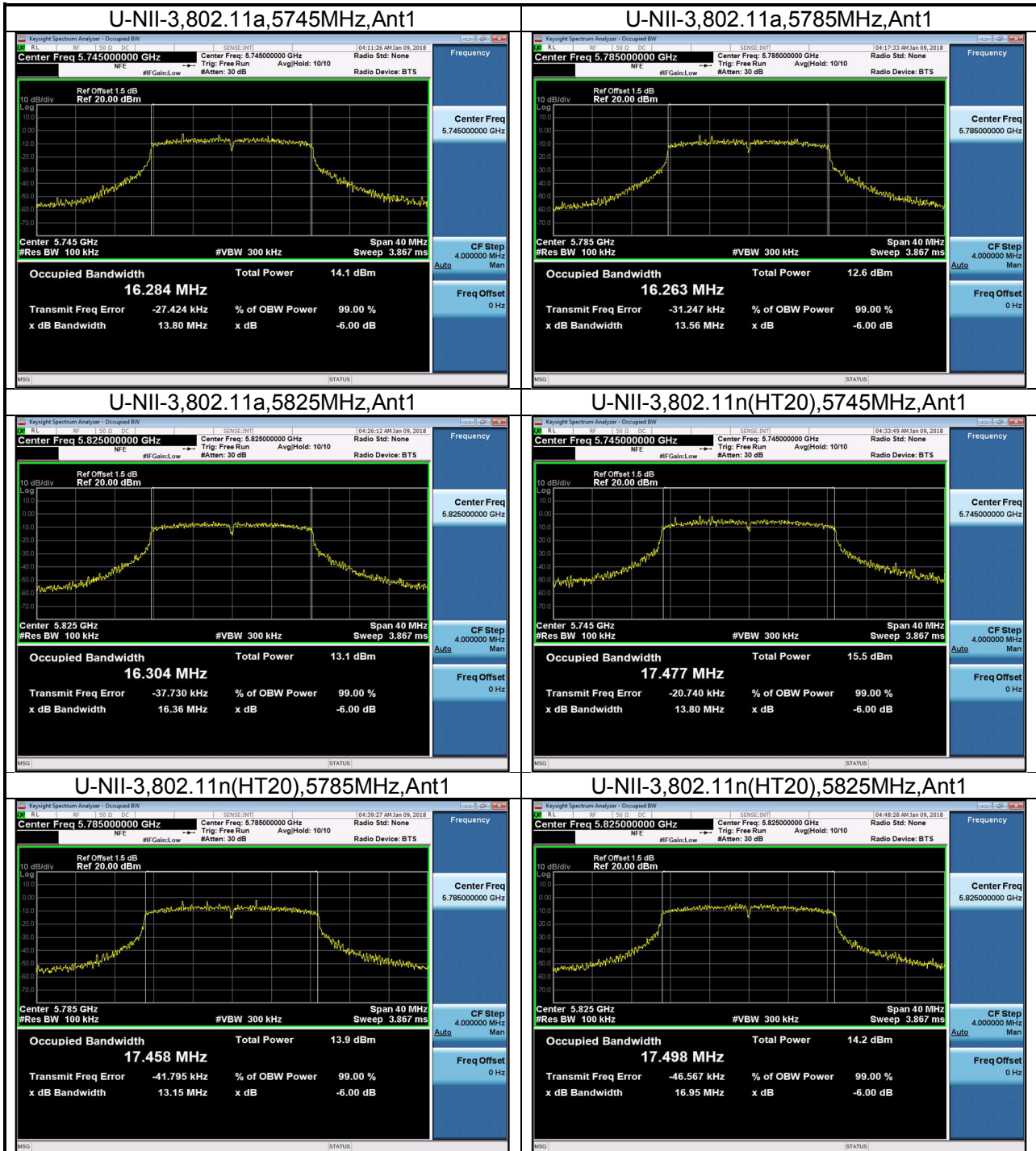


2 6 dB Bandwidth

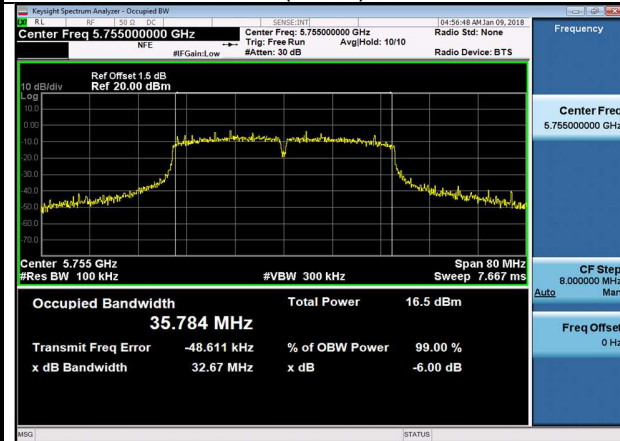
2.1 Test Data

U-NII-3 6 dB Bandwidth				
Mode	Test Frequency(MHz)	Ant	6dB Bandwidth(MHz)	Result
802.11a	5745	Ant1	13.80	Pass
802.11a	5785	Ant1	13.56	Pass
802.11a	5825	Ant1	16.36	Pass
802.11n(HT20)	5745	Ant1	13.80	Pass
802.11n(HT20)	5785	Ant1	13.15	Pass
802.11n(HT20)	5825	Ant1	16.95	Pass
802.11n(HT40)	5755	Ant1	32.67	Pass
802.11n(HT40)	5795	Ant1	35.11	Pass
802.11ac(VHT80)	5775	Ant1	70.06	Pass

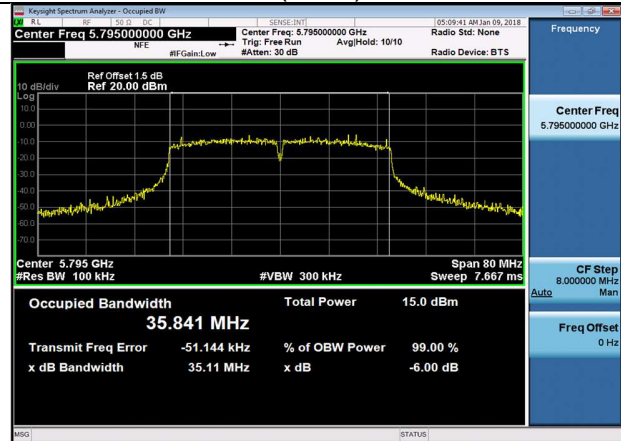
2.2 Test Plots



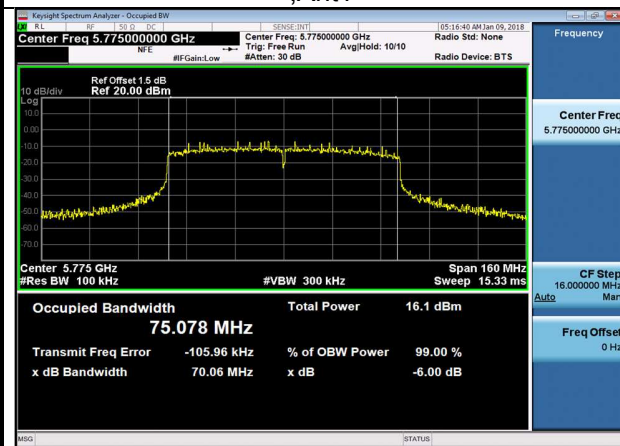
U-NII-3,802.11n(HT40),5755MHz,Ant1



U-NII-3,802.11n(HT40),5795MHz,Ant1



U-NII-3,802.11ac(VHT80),5775MHz,Ant1

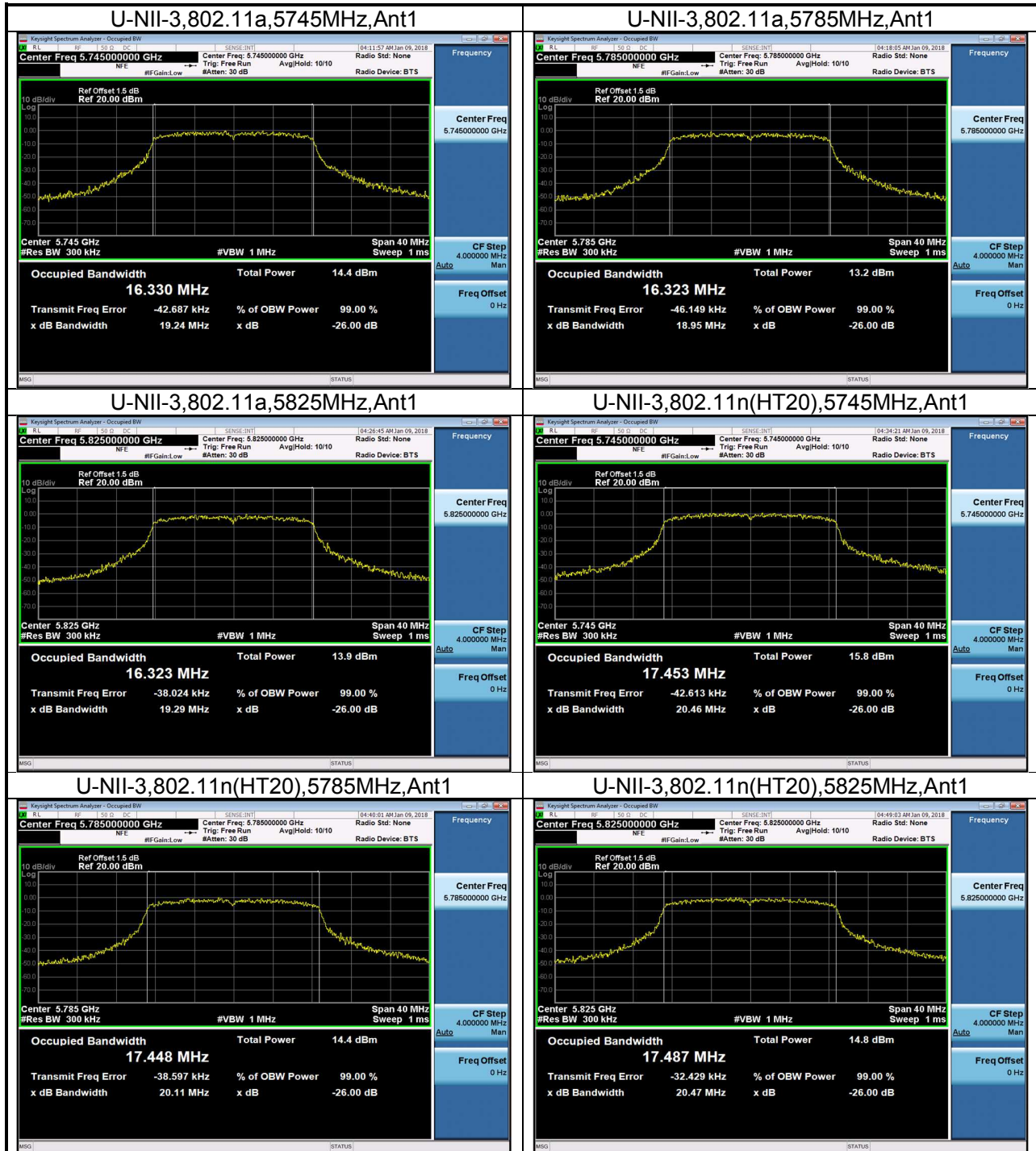


3 99% Occupied Bandwidth

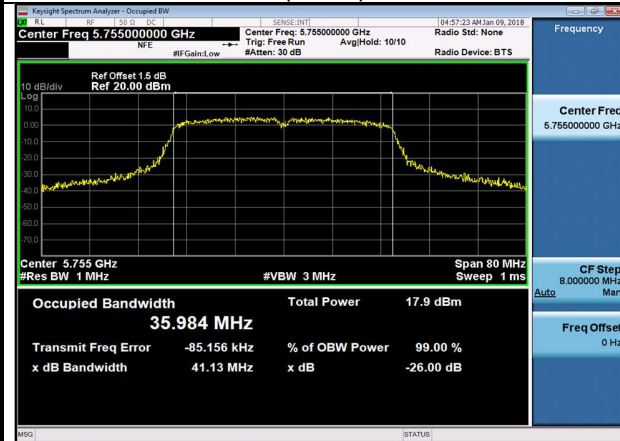
3.1 Test Data

U-NII-3 99% Occupied Bandwidth				
Mode	Test Frequency(MHz)	Ant	99% Occupied Bandwidth(MHz)	Result
802.11a	5745	Ant1	16.330	Pass
802.11a	5785	Ant1	16.323	Pass
802.11a	5825	Ant1	16.323	Pass
802.11n(HT20)	5745	Ant1	17.453	Pass
802.11n(HT20)	5785	Ant1	17.448	Pass
802.11n(HT20)	5825	Ant1	17.487	Pass
802.11n(HT40)	5755	Ant1	35.984	Pass
802.11n(HT40)	5795	Ant1	35.973	Pass
802.11ac(VHT80)	5775	Ant1	74.900	Pass

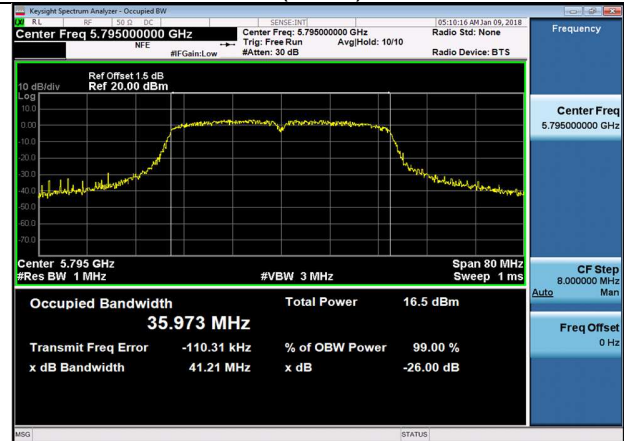
3.2 Test Plots



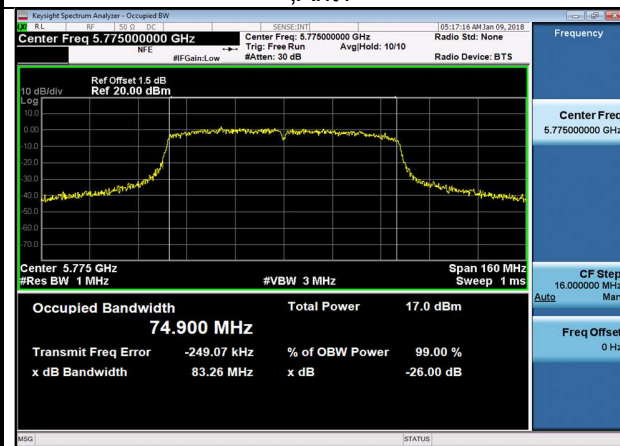
U-NII-3,802.11n(HT40),5755MHz,Ant1



U-NII-3,802.11n(HT40),5795MHz,Ant1



U-NII-3,802.11ac(VHT80),5775MHz,Ant1

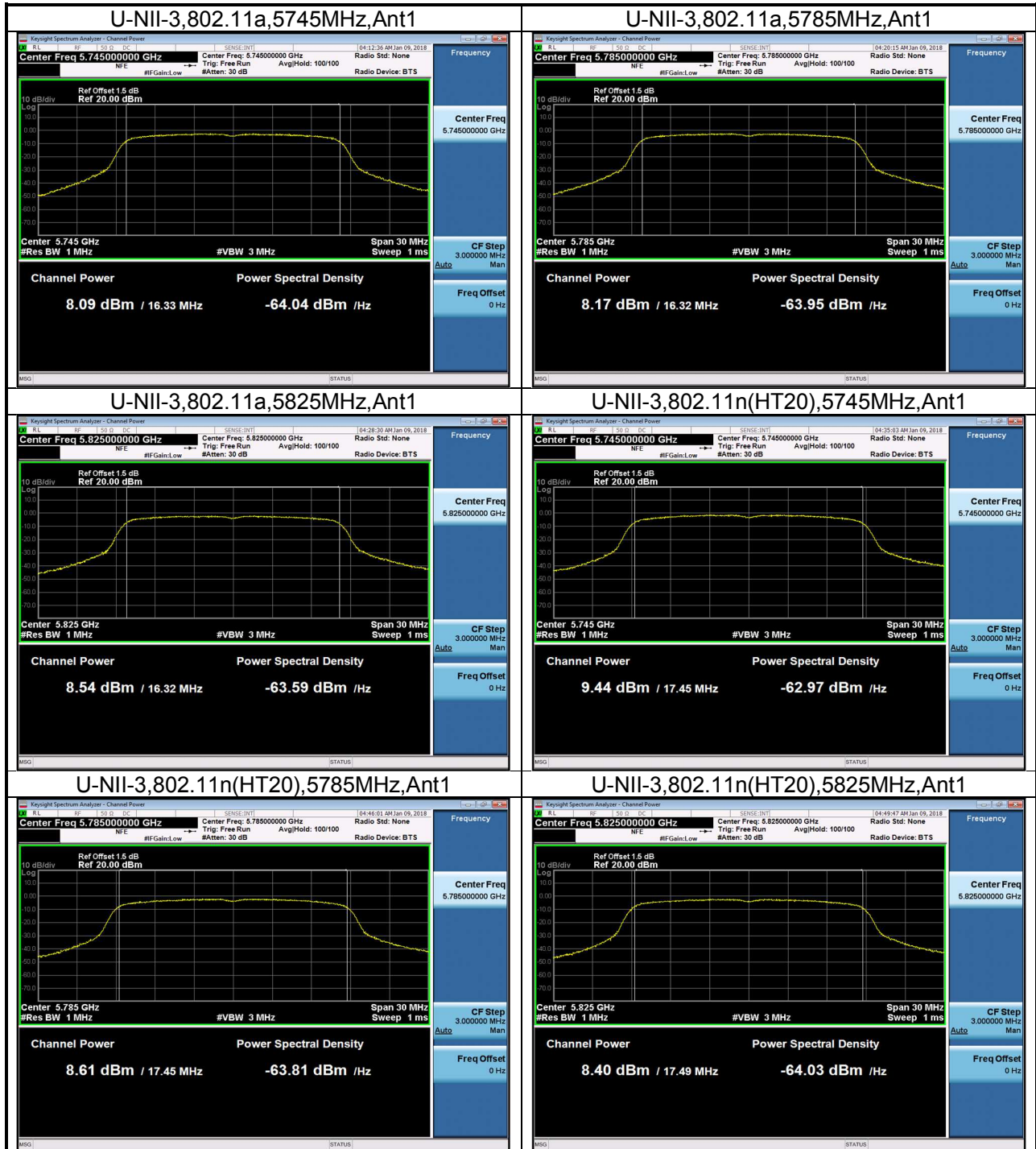


4 AVGSA Output Power

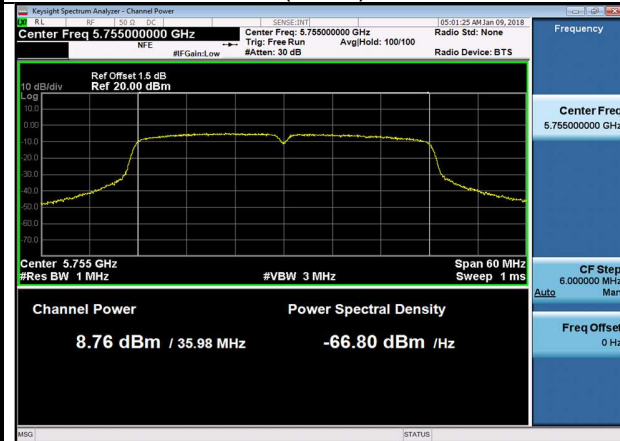
4.1 Test Data

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	Ant1	0.22	8.31	30	12.81	Pass
802.11a	5785	Ant1	0.36	8.53	30	13.03	Pass
802.11a	5825	Ant1	0.33	8.87	30	13.37	Pass
802.11n(HT20)	5745	Ant1	0.24	9.68	30	14.18	Pass
802.11n(HT20)	5785	Ant1	0.24	8.85	30	13.35	Pass
802.11n(HT20)	5825	Ant1	0.24	8.64	30	13.14	Pass
802.11n(HT40)	5755	Ant1	0.68	9.44	30	13.94	Pass
802.11n(HT40)	5795	Ant1	0.47	9.09	30	13.59	Pass
802.11ac(VHT80)	5775	Ant1	0.83	9.66	30	14.16	Pass

4.2 Test Plots



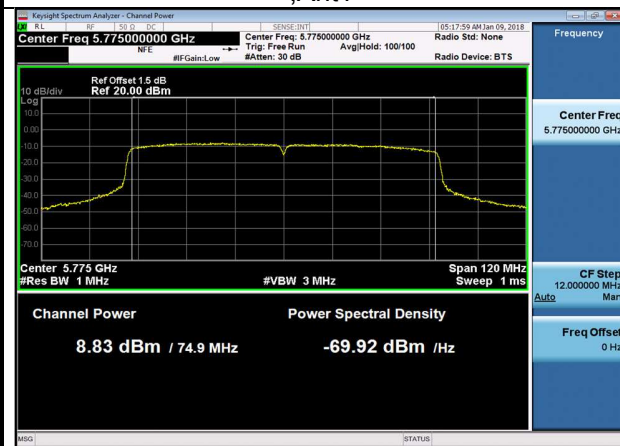
U-NII-3,802.11n(HT40),5755MHz,Ant1



U-NII-3,802.11n(HT40),5795MHz,Ant1



U-NII-3,802.11ac(VHT80),5775MHz
,Ant1



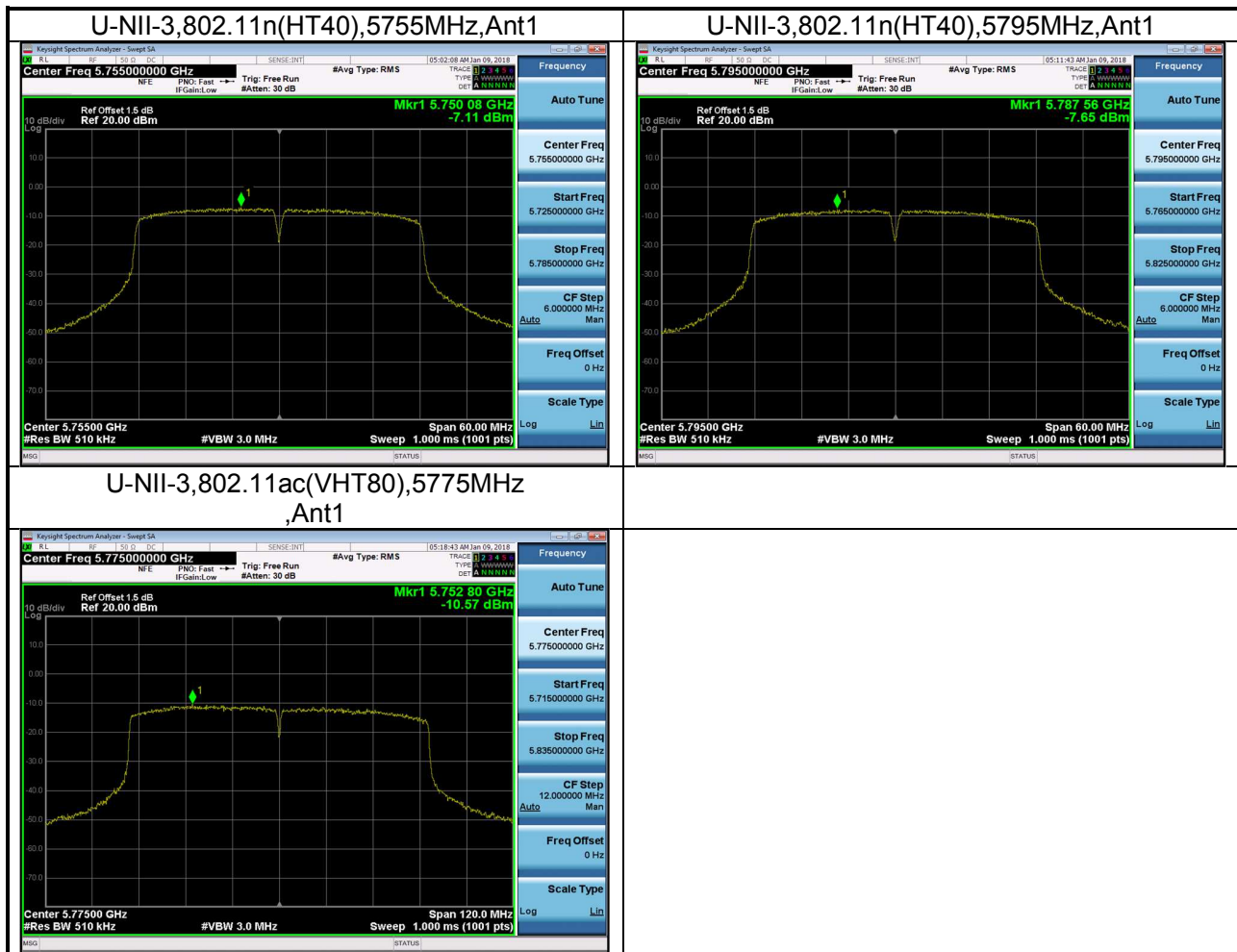
5 AVGSA Power Spectral Density

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	Ant1	0.22	-5.012	510	30	Pass
802.11a	5785	Ant1	0.36	-4.515	510	30	Pass
802.11a	5825	Ant1	0.33	-4.415	510	30	Pass
802.11n(HT20)	5745	Ant1	0.24	-3.309	510	30	Pass
802.11n(HT20)	5785	Ant1	0.24	-4.338	510	30	Pass
802.11n(HT20)	5825	Ant1	0.24	-4.734	510	30	Pass
802.11n(HT40)	5755	Ant1	0.68	-6.427	510	30	Pass
802.11n(HT40)	5795	Ant1	0.47	-7.181	510	30	Pass
802.11ac(VHT80)	5775	Ant1	0.83	-9.744	510	30	Pass

5.2 Test Plots





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