Appendix C: Test results of U-NII-2c Band

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	35.46	Pass
802.11a	5600	Ant0	34.32	Pass
802.11a	5700	Ant0	29.11	Pass
802.11n (HT20)	5500	Ant0	33.38	Pass
802.11n (HT20)	5600	Ant0	34.66	Pass
802.11n (HT20)	5700	Ant0	29.48	Pass
802.11n (HT40)	5510	Ant0	73.50	Pass
802.11n (HT40)	5590	Ant0	76.84	Pass
802.11n (HT40)	5670	Ant0	74.62	Pass
802.11ac (VHT80)	5530	Ant0	118.27	Pass
802.11ac (VHT80)	5610	Ant0	135.96	Pass

1.2 Test Plots

U-NII-2c,802.11a,5500MHz,Ant0

U-NII-2c,802.11a,5600MHz,Ant0

U-NII-2c,802.11a,5700MHz,Ant0

U-NII-2c,802.11n(HT20),5500MHz
,Ant0

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

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

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

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

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

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

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

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	17.762	Pass
802.11a	5600	Ant0	17.366	Pass
802.11a	5700	Ant0	16.893	Pass
802.11n (HT20)	5500	Ant0	18.140	Pass
802.11n (HT20)	5600	Ant0	18.219	Pass
802.11n (HT20)	5700	Ant0	17.772	Pass
802.11n (HT40)	5510	Ant0	37.898	Pass
802.11n (HT40)	5590	Ant0	37.883	Pass
802.11n (HT40)	5670	Ant0	37.107	Pass
802.11ac (VHT80)	5530	Ant0	77.245	Pass
802.11ac (VHT80)	5610	Ant0	76.493	Pass

2.2 Test Plots

U-NII-2c,802.11a,5500MHz,Ant0

U-NII-2c,802.11a,5600MHz,Ant0

U-NII-2c,802.11a,5700MHz,Ant0

U-NII-2c,802.11n(HT20),5500MHz ,Ant0

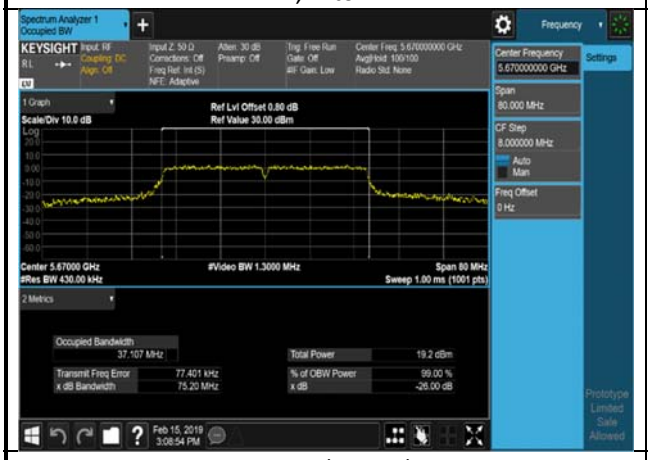
U-NII-2c,802.11n(HT20),5600MHz ,Ant0

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

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

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

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



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

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

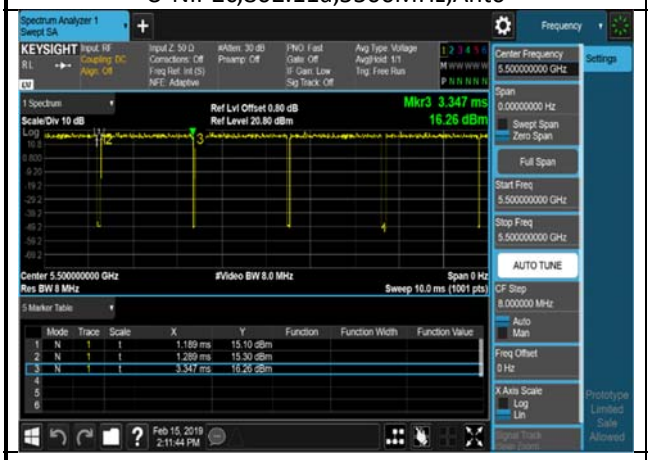
3 Duty Cycle

3.1 Test Data

U-NII-2c Duty Cycle				
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11a	5500	Ant0	95.37	0.21
802.11a	5600	Ant0	96.73	0.14
802.11a	5700	Ant0	96.28	0.16
802.11n (HT20)	5500	Ant0	97.46	0.11
802.11n (HT20)	5600	Ant0	95.05	0.22
802.11n (HT20)	5700	Ant0	97.46	0.11
802.11n (HT40)	5510	Ant0	92.16	0.35
802.11n (HT40)	5590	Ant0	92.16	0.35
802.11n (HT40)	5670	Ant0	96.94	0.13
802.11ac (VHT80)	5530	Ant0	82.88	0.82
802.11ac (VHT80)	5610	Ant0	85.19	0.70

3.2 Test Plots

U-NII-2c,802.11a,5500MHz,Ant0



U-NII-2c,802.11a,5600MHz,Ant0

U-NII-2c,802.11a,5700MHz,Ant0

U-NII-2c,802.11n(HT20),5500MHz
,Ant0

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

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

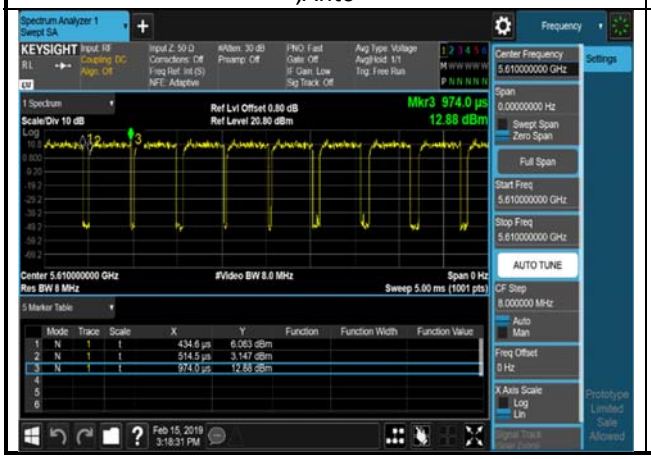
U-NII-2c,802.11n(HT40),5510MHz ,Ant0

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

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

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

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



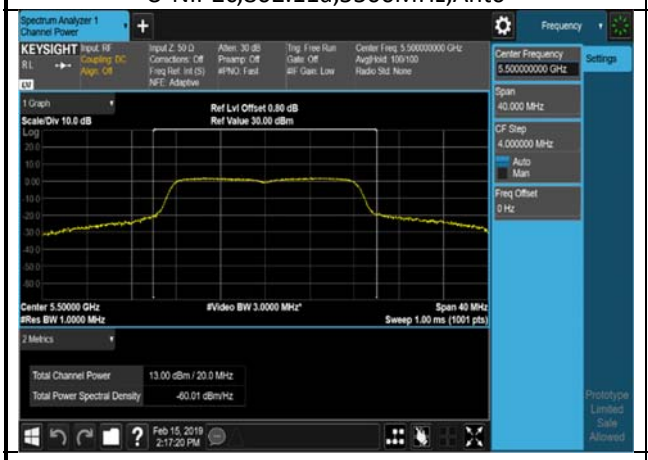
4 AVGSA Output Power

4.1 Test Data

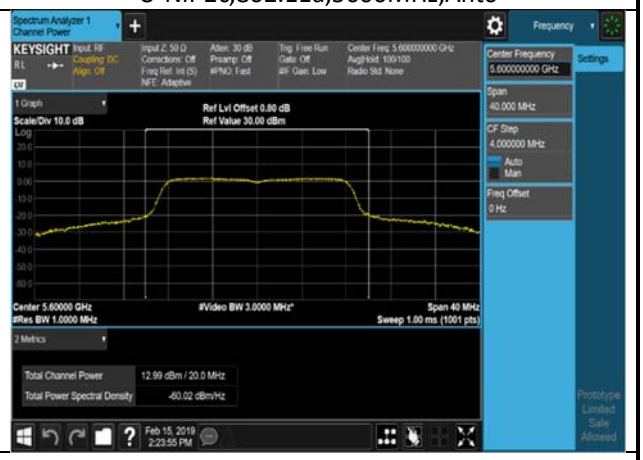
U-NII-2c AVGSA Output Power								
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
802.11a	5500	Ant0	0.21	13.21	24	15.91	30	Pass
802.11a	5600	Ant0	0.14	13.13	24	15.83	30	Pass
802.11a	5700	Ant0	0.16	12.92	24	15.62	30	Pass
802.11n (HT20)	5500	Ant0	0.11	12.42	24	15.12	30	Pass
802.11n (HT20)	5600	Ant0	0.22	13.01	24	15.71	30	Pass
802.11n (HT20)	5700	Ant0	0.11	12.63	24	15.33	30	Pass
802.11n (HT40)	5510	Ant0	0.35	12.86	24	15.56	30	Pass
802.11n (HT40)	5590	Ant0	0.35	13.35	24	16.05	30	Pass
802.11n (HT40)	5670	Ant0	0.13	12.86	24	15.56	30	Pass
802.11ac (VHT80)	5530	Ant0	0.82	12.94	24	15.64	30	Pass
802.11ac (VHT80)	5610	Ant0	0.70	13.12	24	15.82	30	Pass

4.2 Test Plots

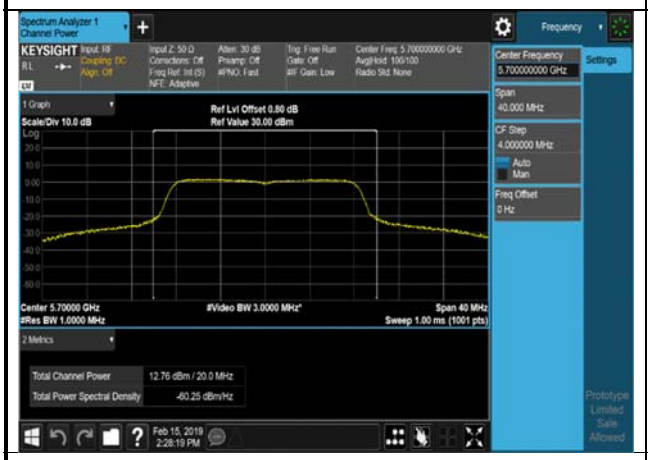
U-NII-2c,802.11a,5500MHz,Ant0



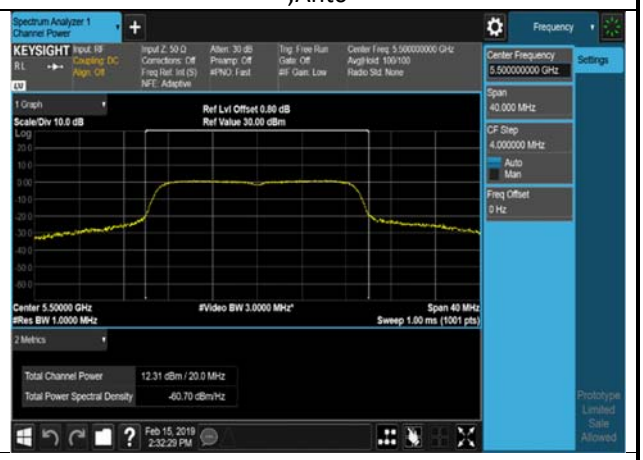
U-NII-2c,802.11a,5600MHz,Ant0



U-NII-2c,802.11a,5700MHz,Ant0

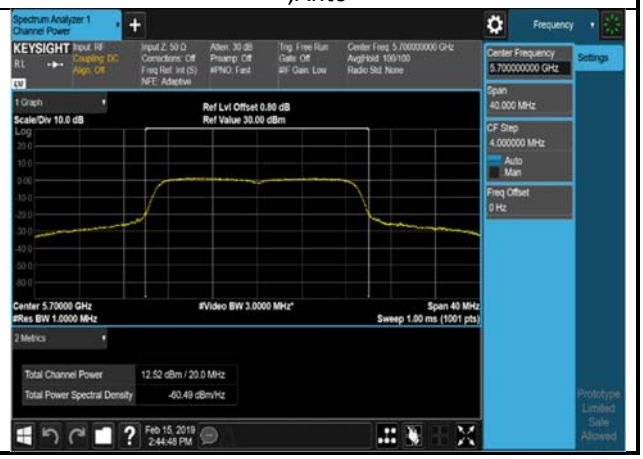


U-NII-2c,802.11n(HT20),5500MHz
,Ant0

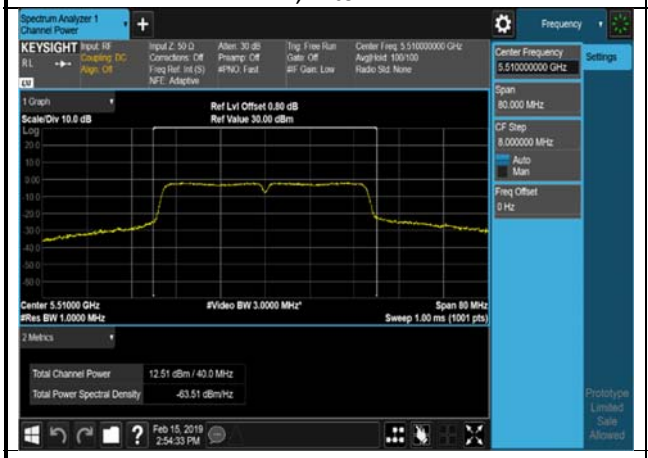


U-NII-2c,802.11n(HT20),5600MHz
,Ant0

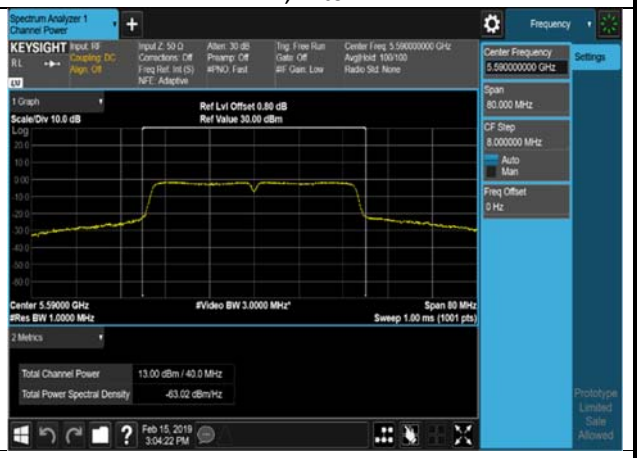
U-NII-2c,802.11n(HT20),5700MHz
,Ant0



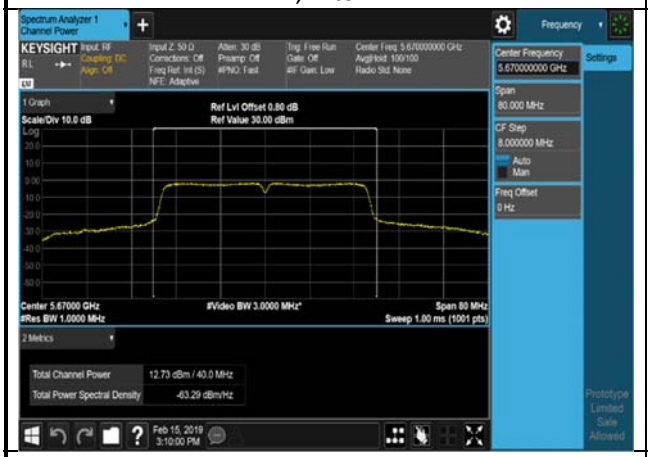
U-NII-2c,802.11n(HT40),5510MHz
,Ant0



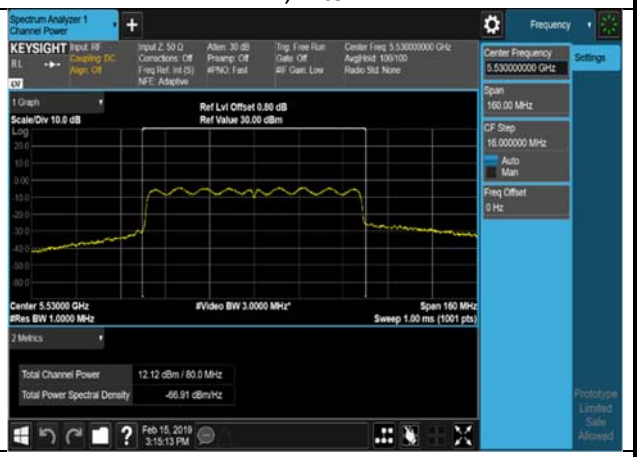
U-NII-2c,802.11n(HT40),5590MHz
,Ant0



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



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



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

5 AVGSA Power Spectral Density

5.1 Test Data

U-NII-2c AVGSA Power Spectral Density							
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	PSD (dBm/MHz)	RBW (kHz)	Limit (dBm/MHz)	Result
802.11a	5500	Ant0	0.21	1.973	1000	11	Pass
802.11a	5600	Ant0	0.14	1.968	1000	11	Pass
802.11a	5700	Ant0	0.16	2.004	1000	11	Pass
802.11n (HT20)	5500	Ant0	0.11	1.180	1000	11	Pass
802.11n (HT20)	5600	Ant0	0.22	1.878	1000	11	Pass
802.11n (HT20)	5700	Ant0	0.11	1.661	1000	11	Pass
802.11n (HT40)	5510	Ant0	0.35	-1.362	1000	11	Pass
802.11n (HT40)	5590	Ant0	0.35	-1.140	1000	11	Pass
802.11n (HT40)	5670	Ant0	0.13	-1.297	1000	11	Pass
802.11ac (VHT80)	5530	Ant0	0.82	-3.320	1000	11	Pass
802.11ac (VHT80)	5610	Ant0	0.70	-2.990	1000	11	Pass

5.2 Test Plots

U-NII-2c,802.11a,5500MHz,Ant0

U-NII-2c,802.11a,5600MHz,Ant0

U-NII-2c,802.11a,5700MHz,Ant0

U-NII-2c,802.11n(HT20),5500MHz ,Ant0

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

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

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

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

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

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

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

********** END **********