

Appendix C: Test Results for U-NII Band 2c

1 Duty Cycle

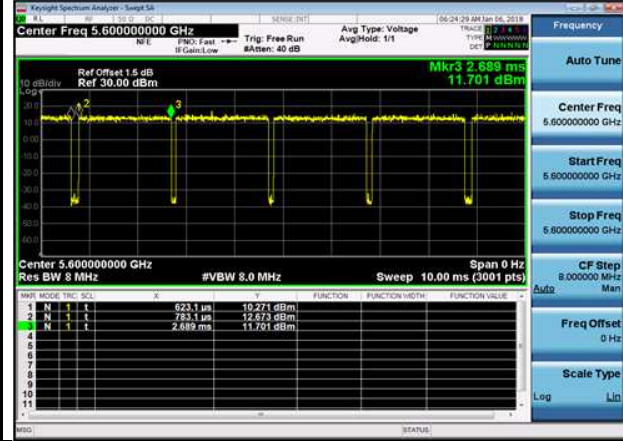
1.1 Test Data

U-NII-2c Duty Cycle				
Mode	Test Frequency(MHz)	Ant	Duty Cycle(%)	Duty Cycle Factor (dB)
802.11a	5500	Ant1	91.92	0.37
802.11a	5580	Ant1	95.50	0.20
802.11a	5600	Ant1	95.05	0.22
802.11a	5700	Ant1	92.33	0.35
802.11n(HT20)	5500	Ant1	92.72	0.33
802.11n(HT20)	5580	Ant1	93.46	0.29
802.11n(HT20)	5600	Ant1	92.26	0.35
802.11n(HT20)	5700	Ant1	92.27	0.35
802.11n(HT40)	5510	Ant1	90.71	0.42
802.11n(HT40)	5550	Ant1	87.08	0.60
802.11n(HT40)	5590	Ant1	85.45	0.68
802.11n(HT40)	5670	Ant1	88.40	0.54
802.11ac(VHT80)	5530	Ant1	82.63	0.83
802.11ac(VHT80)	5610	Ant1	82.63	0.83

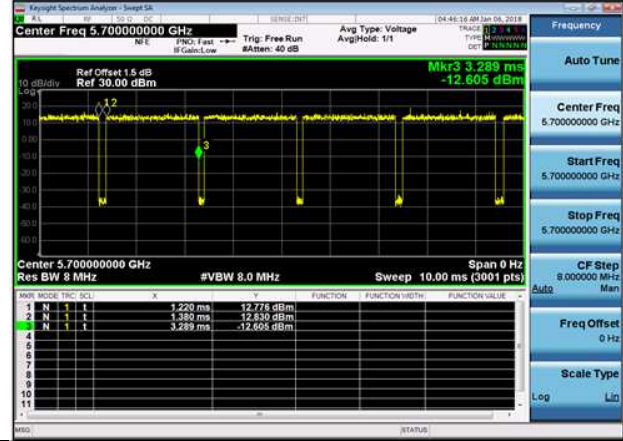
1.2 Test Plots



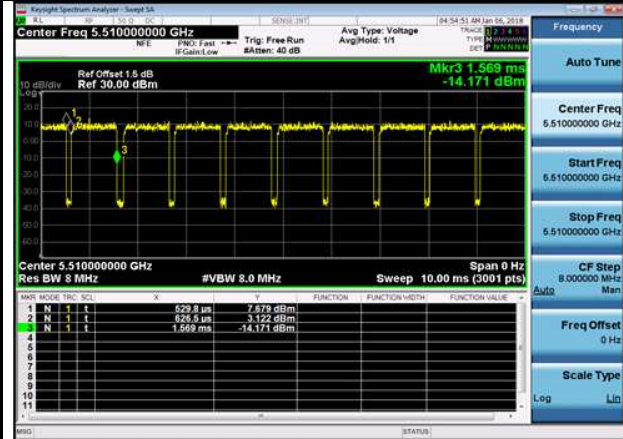
U-NII-2c,802.11n(HT20),5600MHz
,Ant1



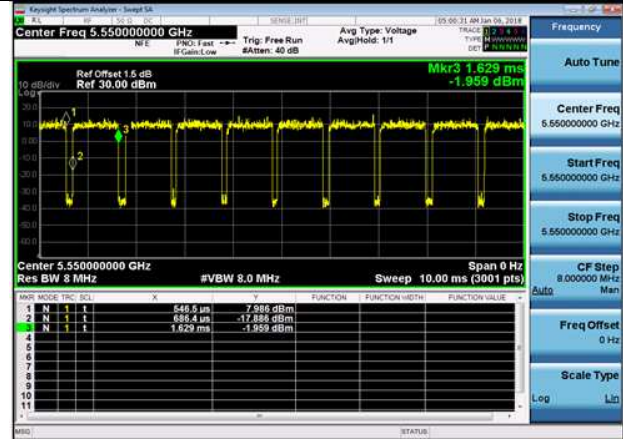
U-NII-2c,802.11n(HT20),5700MHz
,Ant1



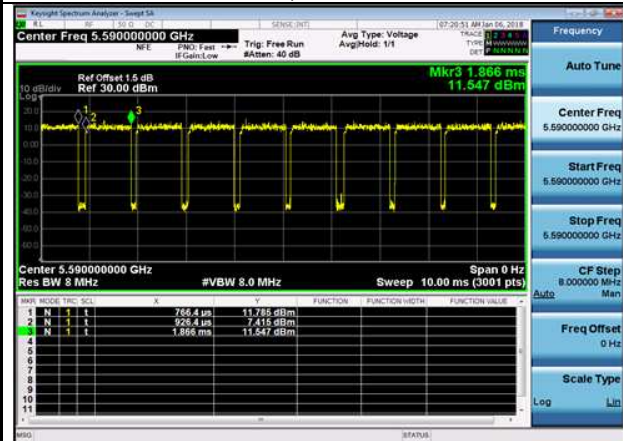
U-NII-2c,802.11n(HT40),5510MHz
,Ant1



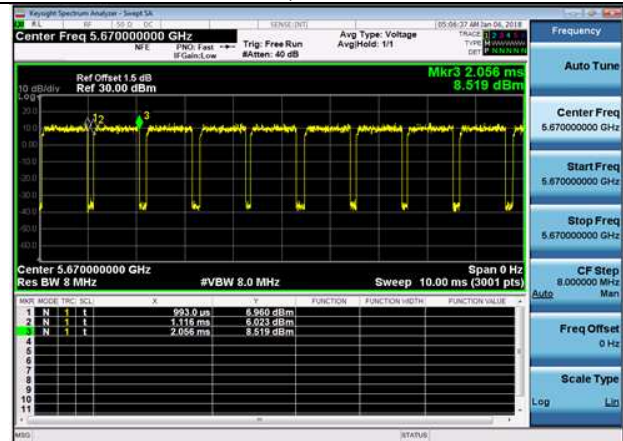
U-NII-2c,802.11n(HT40),5550MHz
,Ant1



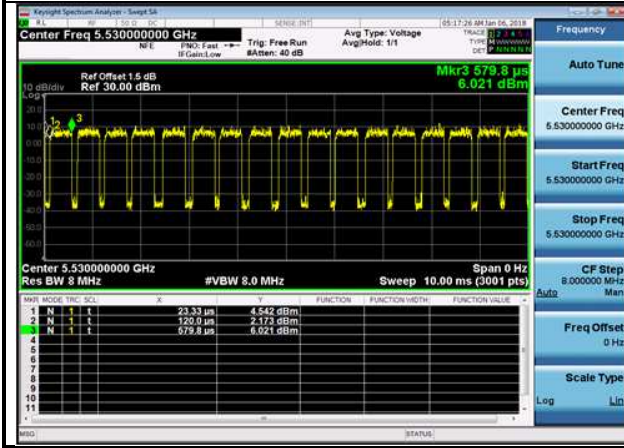
U-NII-2c,802.11n(HT40),5590MHz
,Ant1



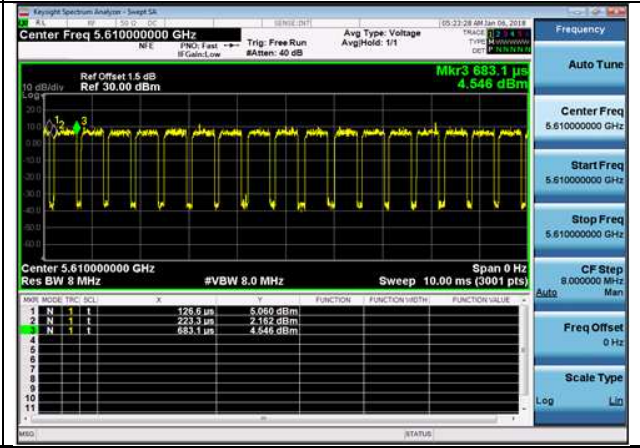
U-NII-2c,802.11n(HT40),5670MHz
,Ant1



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



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

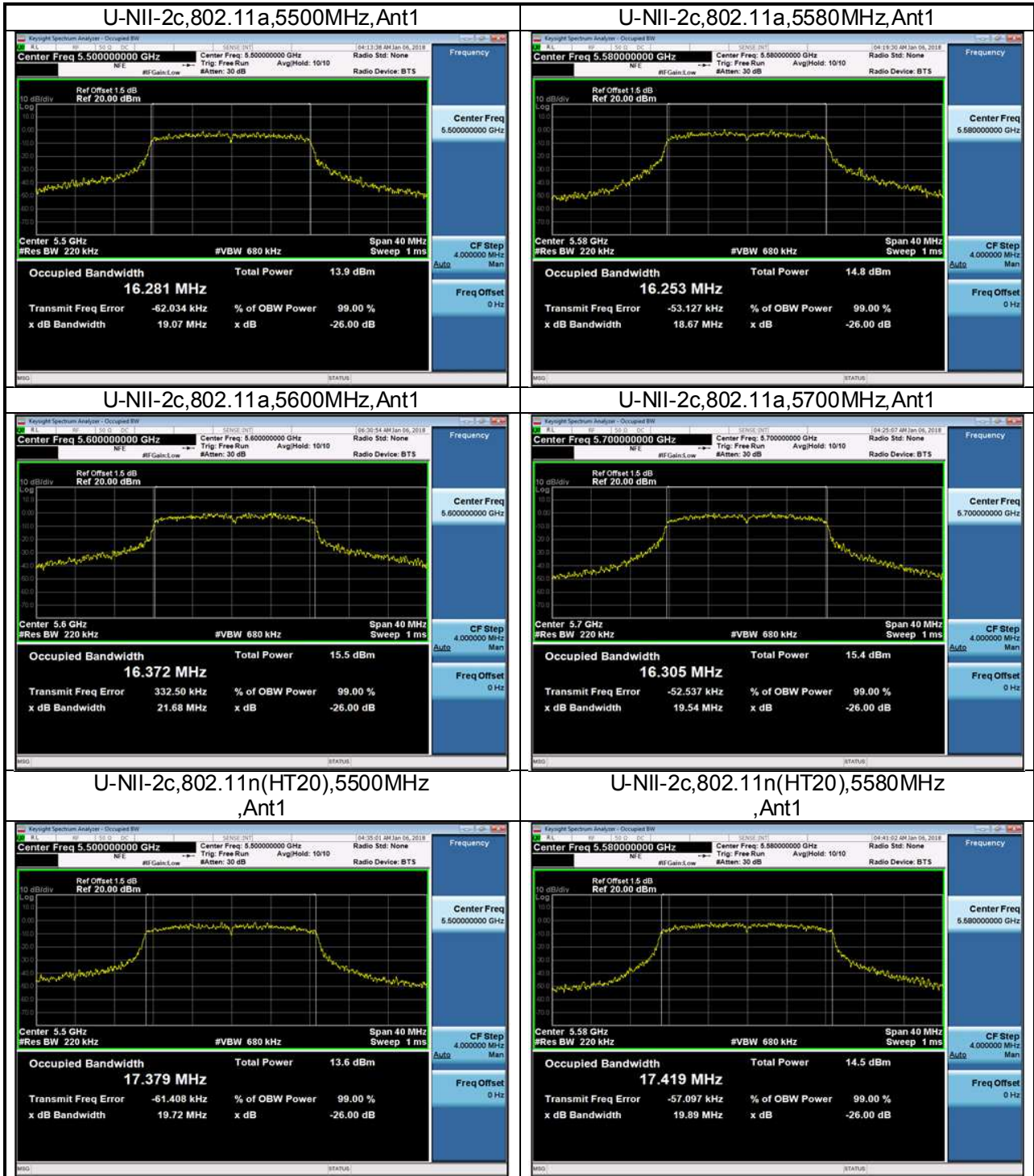


2 26dB Bandwidth

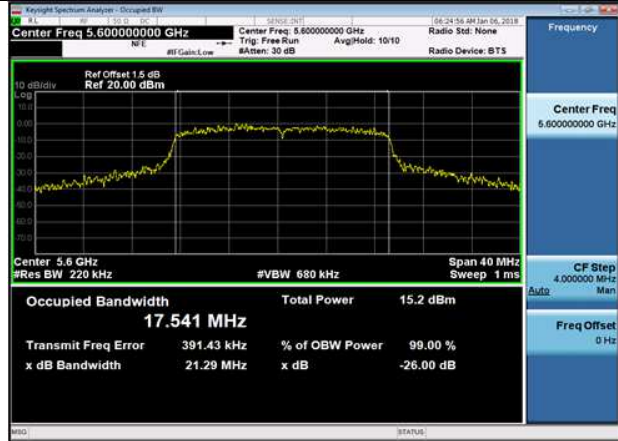
2.1 Test Data

U-NII-2c 26dB Bandwidth				
Mode	Test Frequency(MHz)	Ant	26dB Bandwidth(MHz)	Result
802.11a	5500	Ant1	19.07	Pass
802.11a	5580	Ant1	18.67	Pass
802.11a	5600	Ant1	21.68	Pass
802.11a	5700	Ant1	19.54	Pass
802.11n(HT20)	5500	Ant1	19.72	Pass
802.11n(HT20)	5580	Ant1	19.89	Pass
802.11n(HT20)	5600	Ant1	21.29	Pass
802.11n(HT20)	5700	Ant1	19.76	Pass
802.11n(HT40)	5510	Ant1	40.13	Pass
802.11n(HT40)	5550	Ant1	40.76	Pass
802.11n(HT40)	5590	Ant1	46.76	Pass
802.11n(HT40)	5670	Ant1	39.92	Pass
802.11ac(VHT80)	5530	Ant1	82.53	Pass
802.11ac(VHT80)	5610	Ant1	81.64	Pass

2.2 Test Plots



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



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



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



U-NII-2c,802.11n(HT40),5550MHz
,Ant1

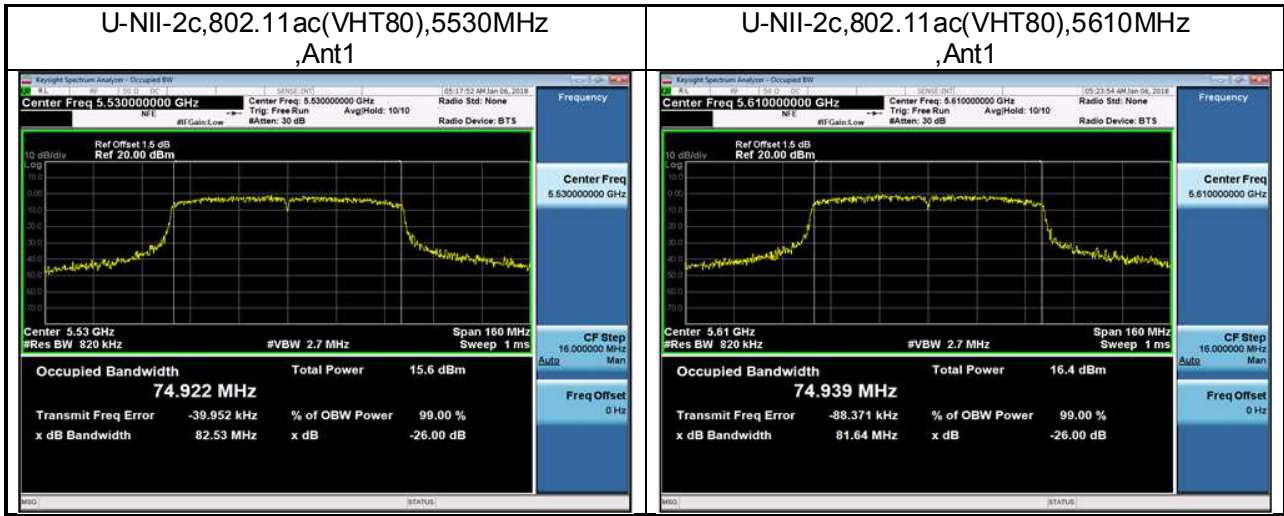


U-NII-2c,802.11n(HT40),5590MHz
,Ant1



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



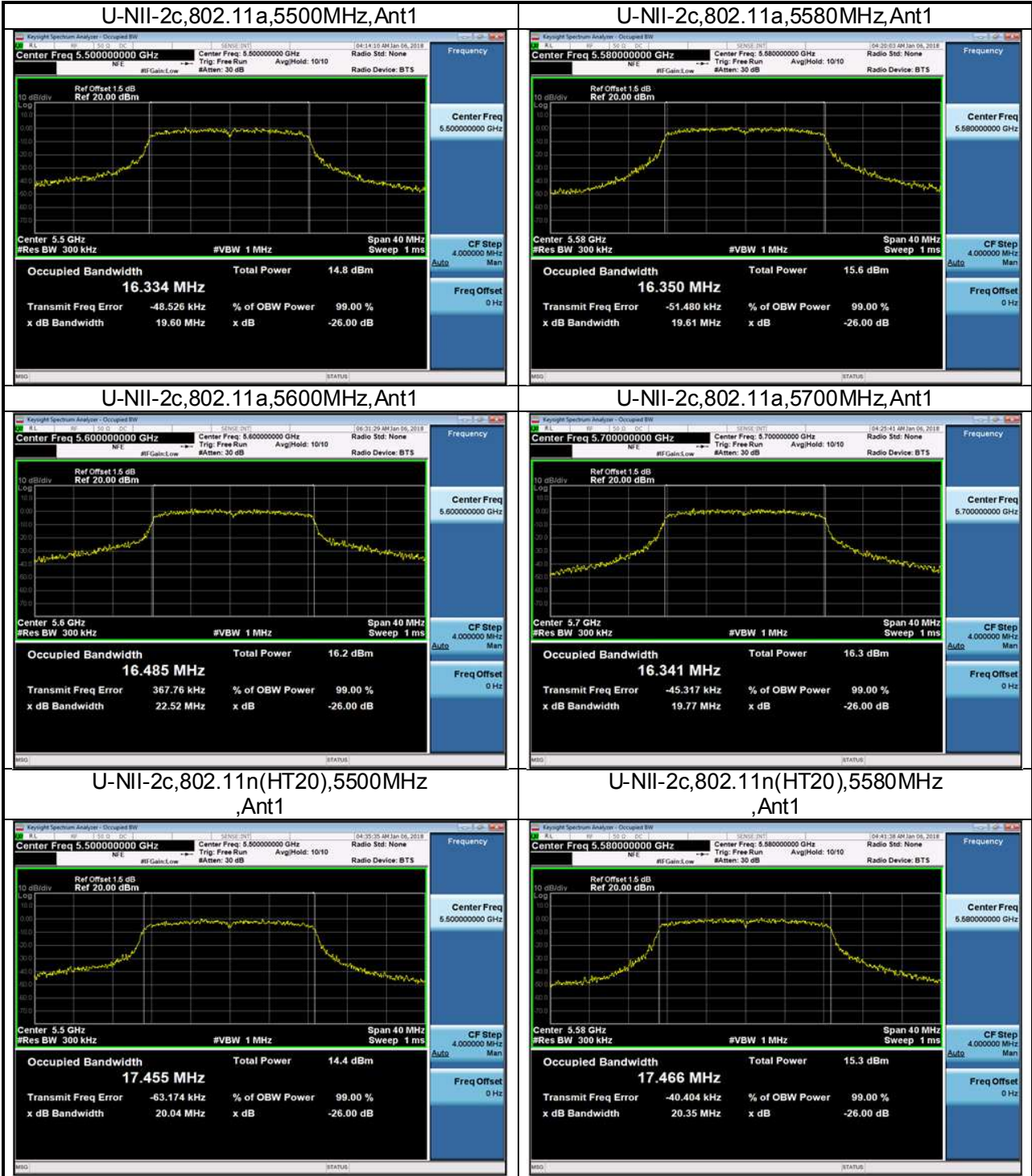


3 99% Occupied Bandwidth

3.1 Test Data

U-NII-2c 99% Occupied Bandwidth				
Mode	Test Frequency(MHz)	Ant	99% Occupied Bandwidth(MHz)	Result
802.11a	5500	Ant1	16.334	Pass
802.11a	5580	Ant1	16.350	Pass
802.11a	5600	Ant1	16.485	Pass
802.11a	5700	Ant1	16.341	Pass
802.11n(HT20)	5500	Ant1	17.455	Pass
802.11n(HT20)	5580	Ant1	17.466	Pass
802.11n(HT20)	5600	Ant1	17.570	Pass
802.11n(HT20)	5700	Ant1	17.485	Pass
802.11n(HT40)	5510	Ant1	35.935	Pass
802.11n(HT40)	5550	Ant1	35.929	Pass
802.11n(HT40)	5590	Ant1	36.209	Pass
802.11n(HT40)	5670	Ant1	35.983	Pass
802.11ac(VHT80)	5530	Ant1	74.920	Pass
802.11ac(VHT80)	5610	Ant1	75.080	Pass

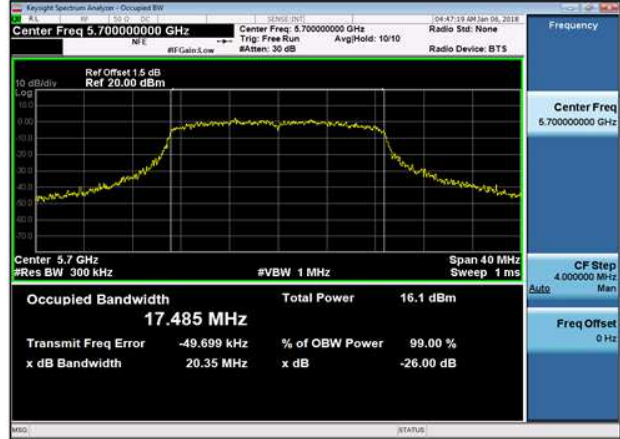
3.2 Test Plots



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



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



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



U-NII-2c,802.11n(HT40),5550MHz
,Ant1

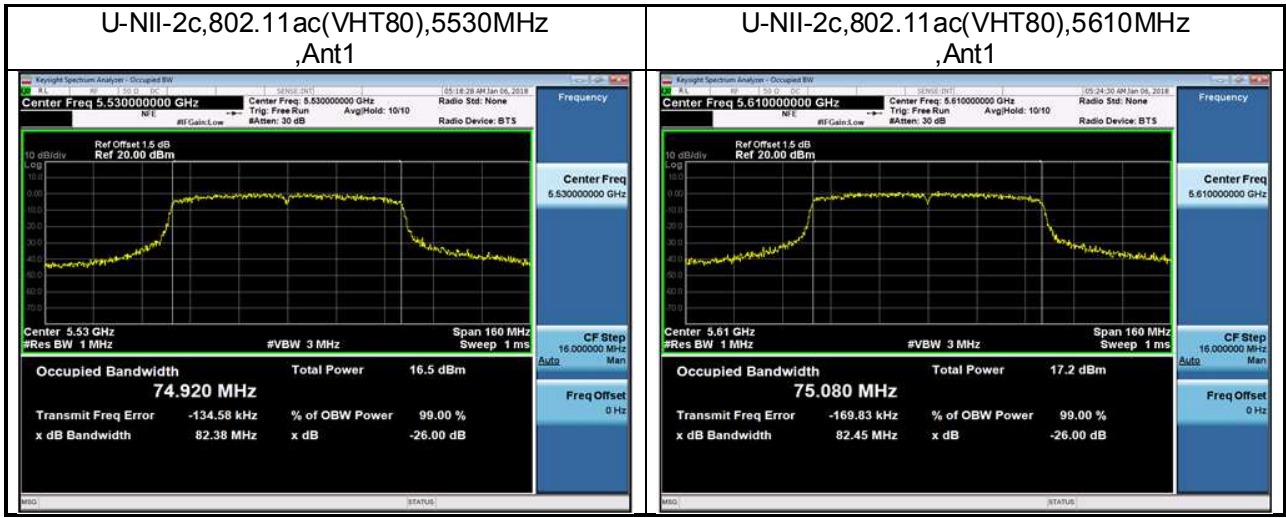


U-NII-2c,802.11n(HT40),5590MHz
,Ant1



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



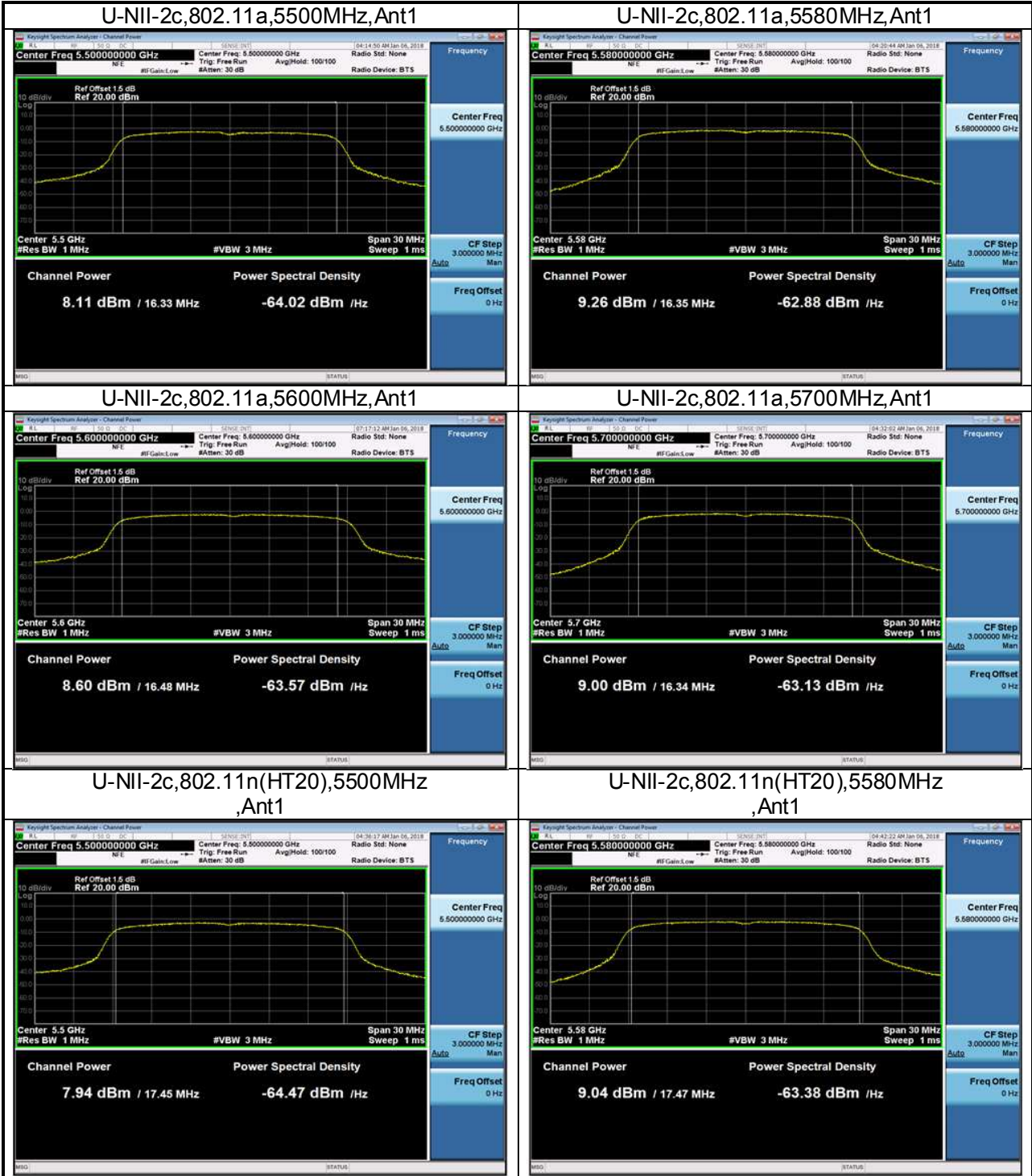


4 AVGSA Output Power

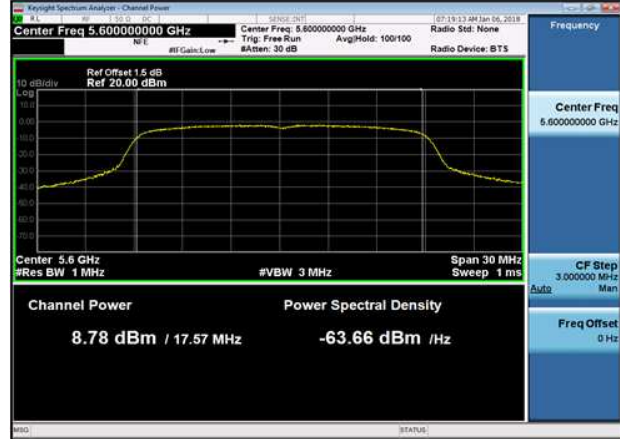
4.1 Test Data

U-NII-2c AVGSA Output Power							
Mode	Test Frequency(MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Limit (dBm)	EIRP (dBm)	Result
802.11a	5500	Ant1	0.37	8.48	24	12.98	Pass
802.11a	5580	Ant1	0.20	9.46	24	13.96	Pass
802.11a	5600	Ant1	0.22	8.82	24	13.32	Pass
802.11a	5700	Ant1	0.35	9.35	24	13.85	Pass
802.11n(HT20)	5500	Ant1	0.33	8.27	24	12.77	Pass
802.11n(HT20)	5580	Ant1	0.29	9.33	24	13.83	Pass
802.11n(HT20)	5600	Ant1	0.35	9.13	24	13.63	Pass
802.11n(HT20)	5700	Ant1	0.35	9.15	24	13.65	Pass
802.11n(HT40)	5510	Ant1	0.42	8.24	24	12.74	Pass
802.11n(HT40)	5550	Ant1	0.60	9.31	24	13.81	Pass
802.11n(HT40)	5590	Ant1	0.68	9.36	24	13.86	Pass
802.11n(HT40)	5670	Ant1	0.54	9.67	24	14.17	Pass
802.11ac(VHT80)	5530	Ant1	0.83	9.15	24	13.65	Pass
802.11ac(VHT80)	5610	Ant1	0.83	9.87	24	14.37	Pass

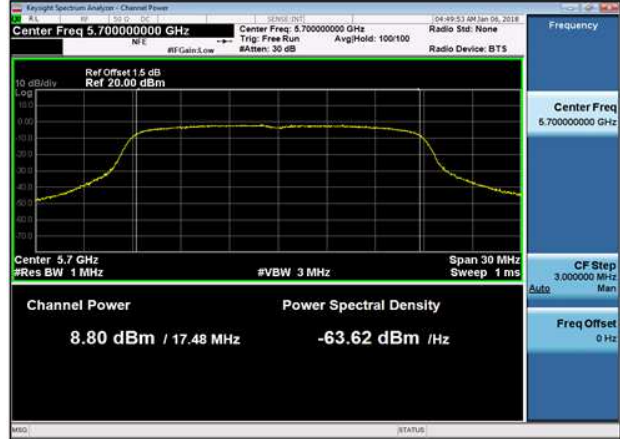
4.2 Test Plots



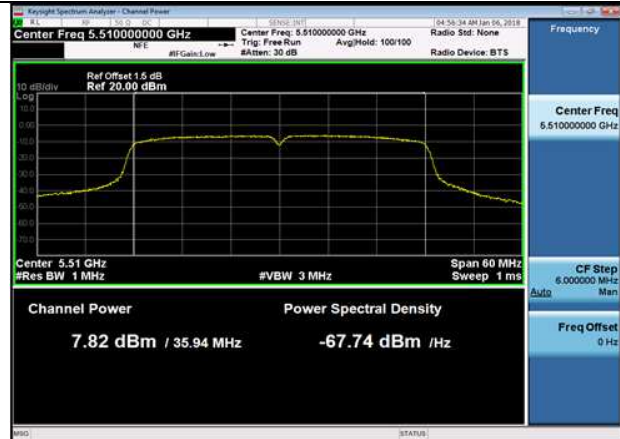
U-NII-2c,802.11n(HT20),5600MHz
,Ant1



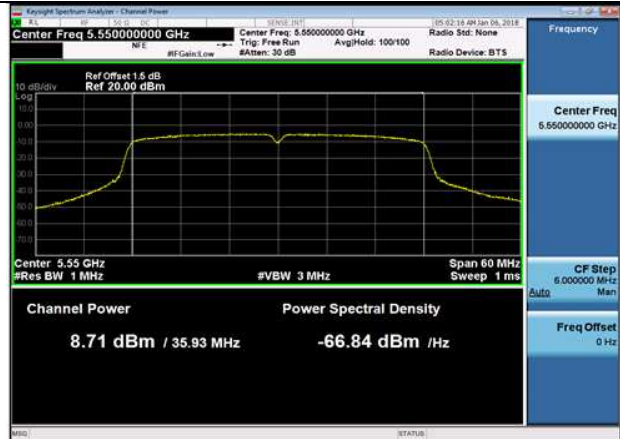
U-NII-2c,802.11n(HT20),5700MHz
,Ant1



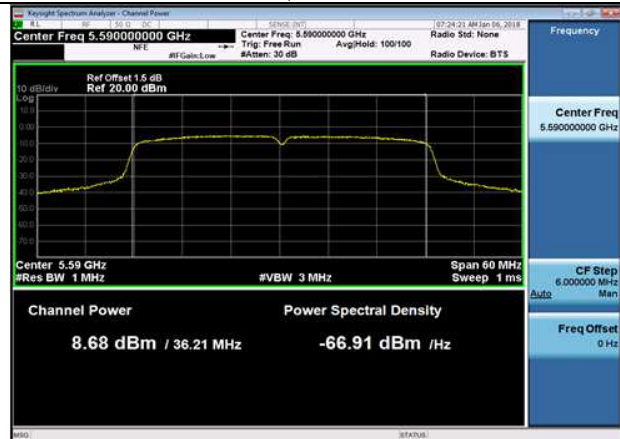
U-NII-2c,802.11n(HT40),5510MHz
,Ant1



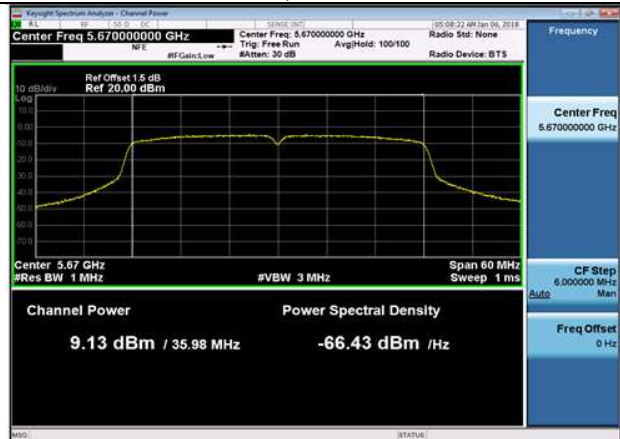
U-NII-2c,802.11n(HT40),5550MHz
,Ant1

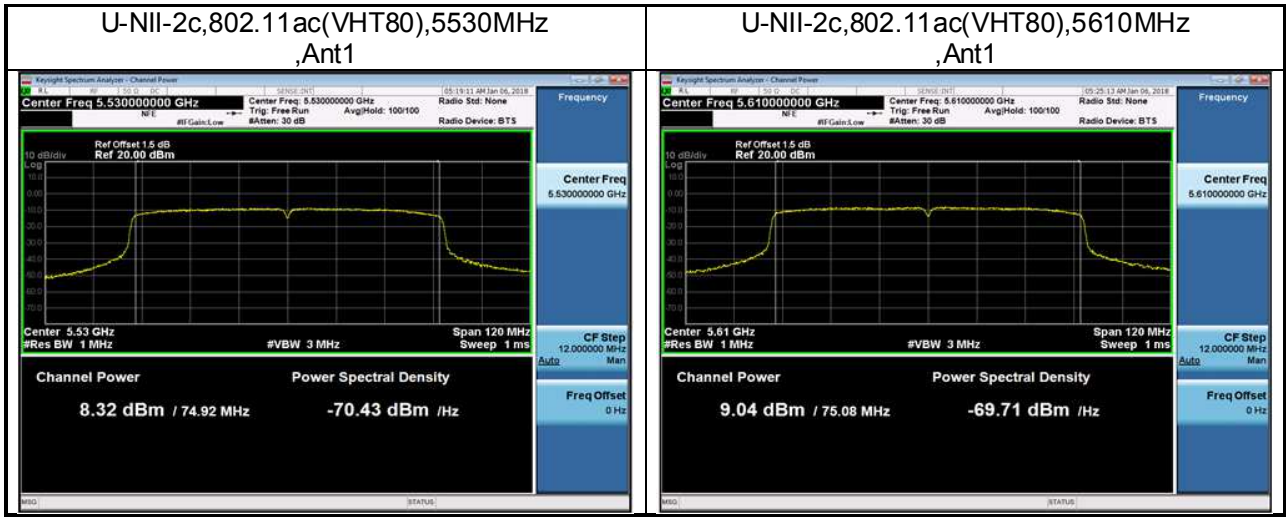


U-NII-2c,802.11n(HT40),5590MHz
,Ant1



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



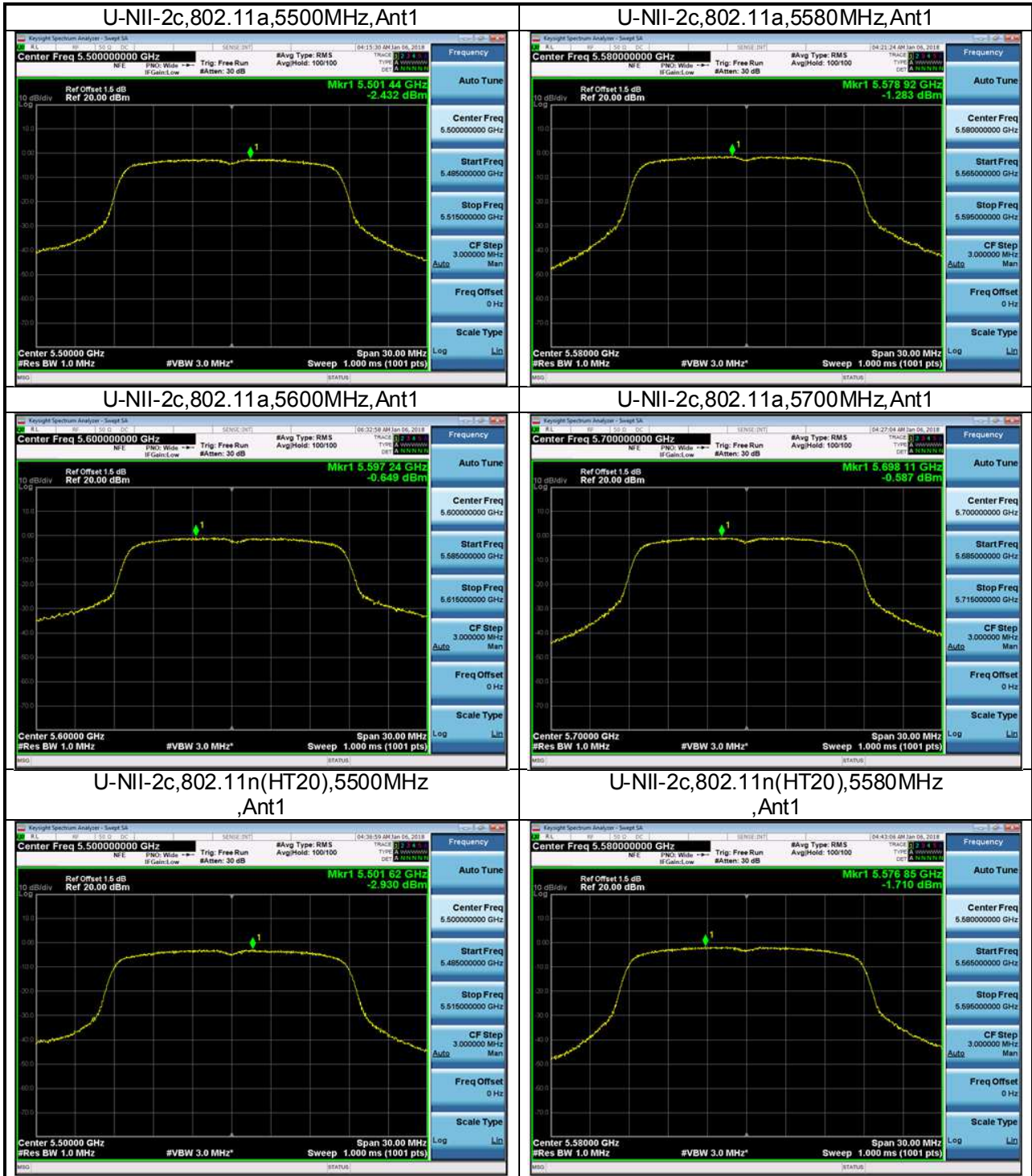


5 AVGSA Power Spectral Density

5.1 Test Data

U-NII-2c AVGSA Power Spectral Density						
Mode	Test Frequency(MHz)	Ant	Duty Cycle Factor (dB)	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11a	5500	Ant1	0.37	-2.062	11	Pass
802.11a	5580	Ant1	0.20	-1.083	11	Pass
802.11a	5600	Ant1	0.22	-0.429	11	Pass
802.11a	5700	Ant1	0.35	-0.237	11	Pass
802.11n(HT20)	5500	Ant1	0.33	-2.600	11	Pass
802.11n(HT20)	5580	Ant1	0.29	-1.420	11	Pass
802.11n(HT20)	5600	Ant1	0.35	-0.477	11	Pass
802.11n(HT20)	5700	Ant1	0.35	-1.484	11	Pass
802.11n(HT40)	5510	Ant1	0.42	-5.589	11	Pass
802.11n(HT40)	5550	Ant1	0.60	-4.505	11	Pass
802.11n(HT40)	5590	Ant1	0.68	-4.596	11	Pass
802.11n(HT40)	5670	Ant1	0.54	-4.049	11	Pass
802.11ac(VHT80)	5530	Ant1	0.83	-7.850	11	Pass
802.11ac(VHT80)	5610	Ant1	0.83	-6.987	11	Pass

5.2 Test Plots



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



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



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



U-NII-2c,802.11n(HT40),5550MHz
,Ant1

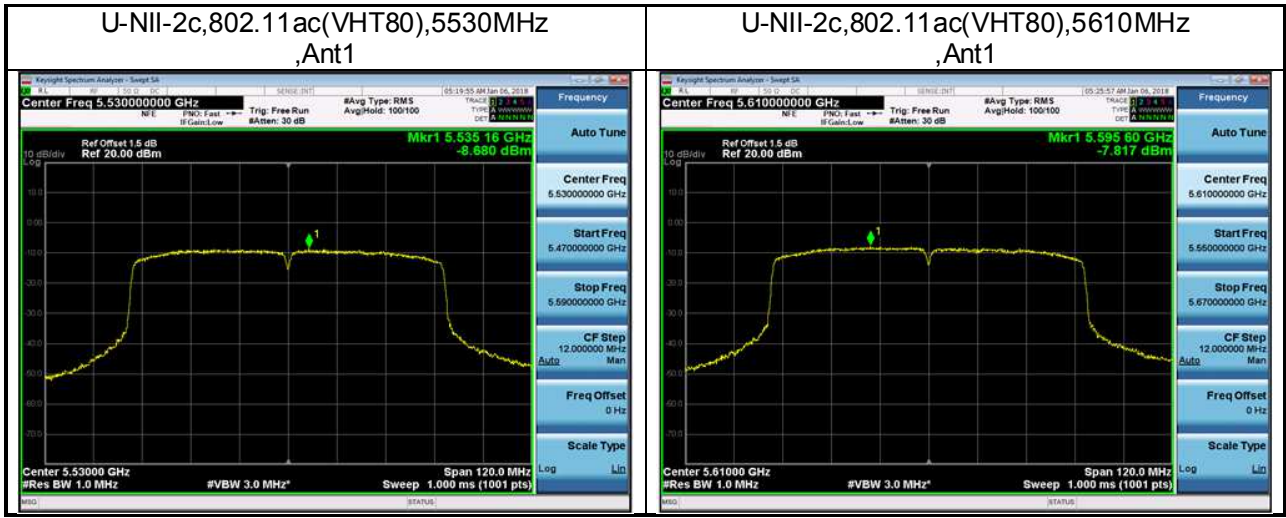


U-NII-2c,802.11n(HT40),5590MHz
,Ant1



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





***** END *****