

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5500	97.26%	0.12
802.11n HT20	5500	97.37%	0.12
802.11n HT40	5510	94.97%	0.22
802.11ac VHT80	5530	91.49%	0.39

Note: Correction Factor=10*log (1/Duty Cycle)

Output Power

Mode	Tones/ RUIndex	Freq (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5500	Chain0	11.40	11.01
802.11a	NA	5580	Chain0	11.83	11.44
802.11a	NA	5700	Chain0	11.77	11.38
802.11ac VHT80	NA	5530	Chain0	8.06	7.67
802.11ac VHT80	NA	5610	Chain0	8.36	7.97
802.11n HT20	NA	5500	Chain0	11.77	11.38
802.11n HT20	NA	5580	Chain0	12.20	11.81
802.11n HT20	NA	5700	Chain0	12.02	11.63
802.11n HT40	NA	5510	Chain0	11.07	10.68
802.11n HT40	NA	5590	Chain0	11.56	11.17
802.11n HT40	NA	5670	Chain0	11.62	11.23

Emission Bandwidth

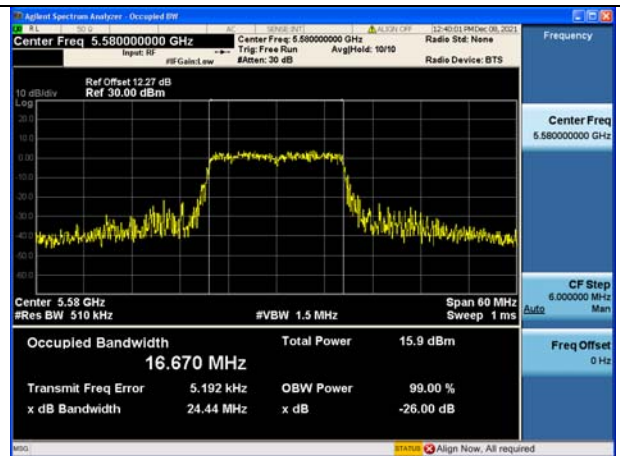
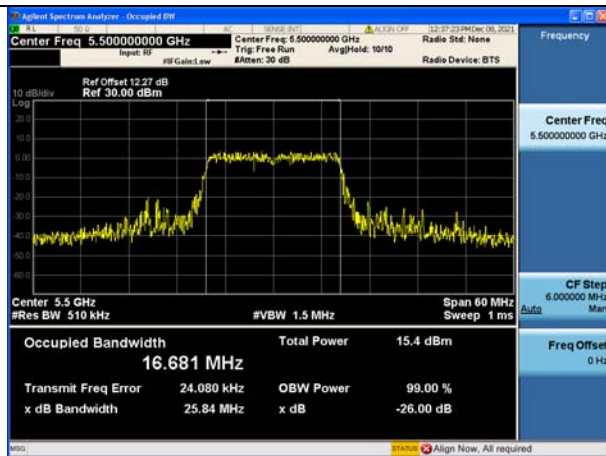
Offset 12.27dB = Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1.77dB

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.618	Channel No.634	Channel No.658
		5500MHz	5580MHz	5700MHz
802.11a	Chain0	25.84	24.44	23.57
802.11n HT20	Chain0	21.57	23.71	22.37

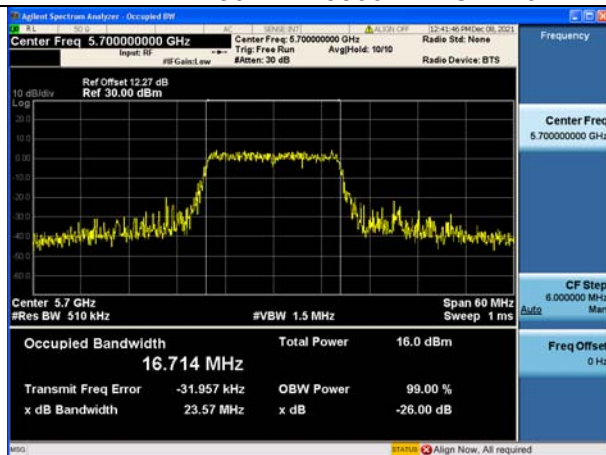
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.620	Channel No.636	Channel No.652
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	40.14	40.18	39.43

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.624	---	Channel No.640
		5530MHz	---	5610MHz
802.11ac VHT80	Chain0	87.64	---	80.84

Test Mode: 802.11a



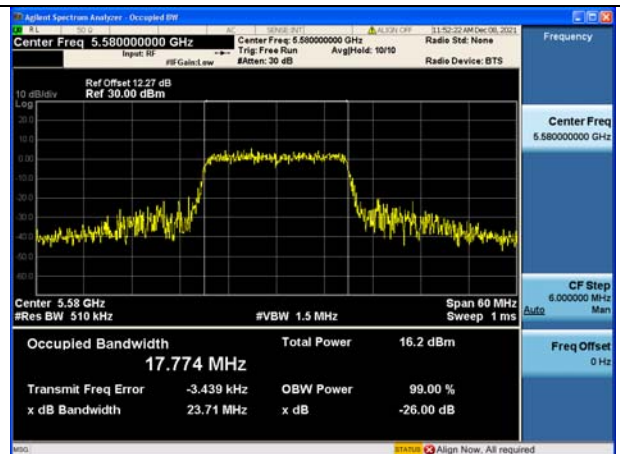
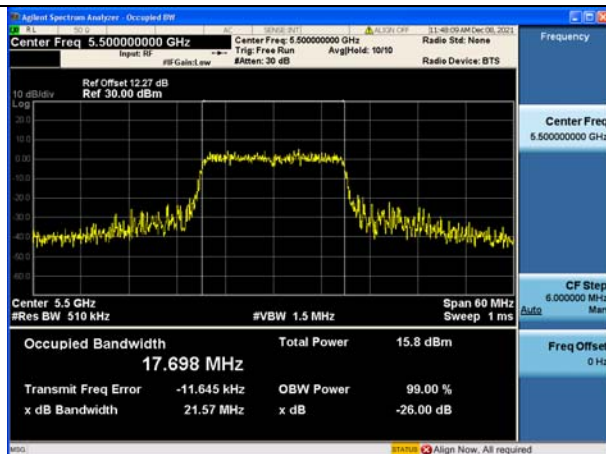
Test Mode:802.11a 5500MHz Chain0



Test Mode:802.11a 5580MHz Chain0

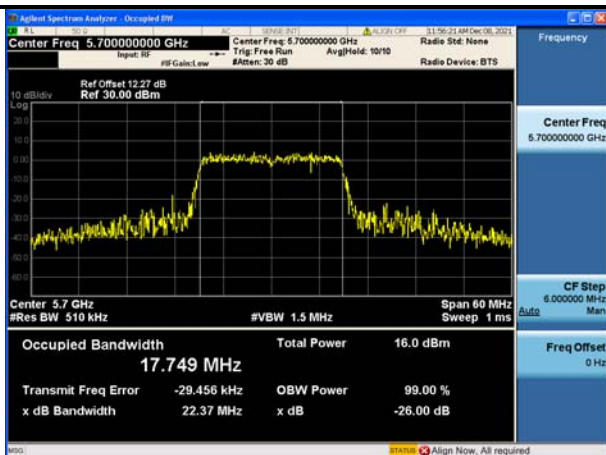
Test Mode:802.11a 5700MHz Chain0

Test Mode: 802.11n HT20



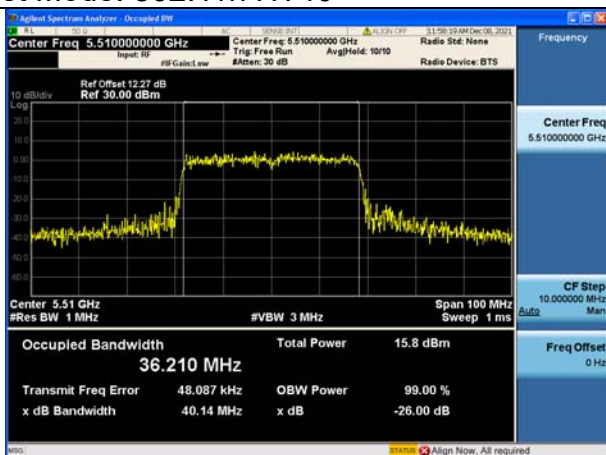
Test Mode:802.11n HT20 5500MHz Chain0

Test Mode:802.11n HT20 5580MHz Chain0

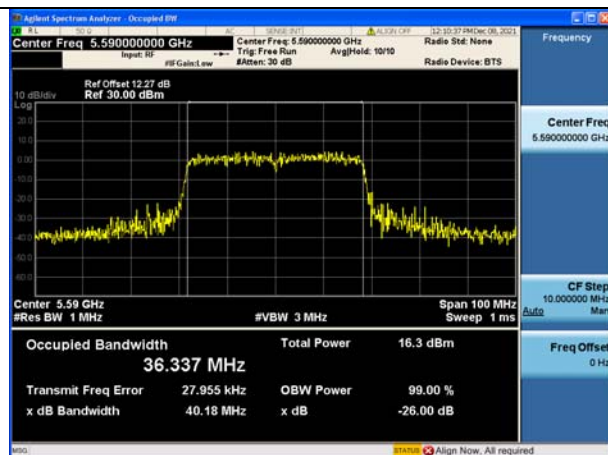


Test Mode:802.11n HT20 5700MHz Chain0

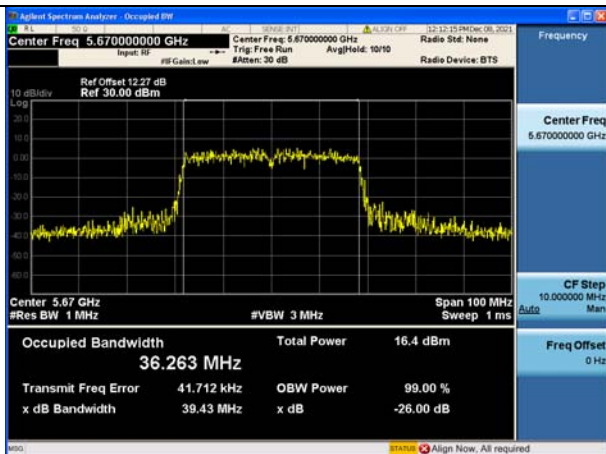
Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5510MHz Chain0

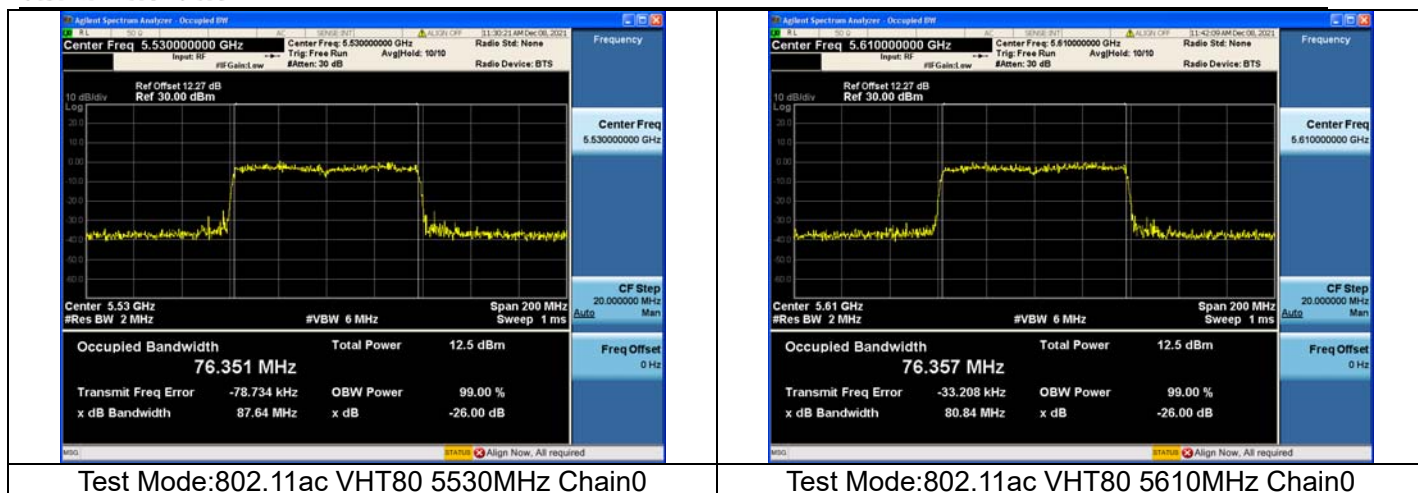


Test Mode:802.11n HT40 5590MHz Chain0



Test Mode:802.11n HT40 5670MHz Chain0

Test Mode: 802.11ac VHT80



Occupied Bandwidth

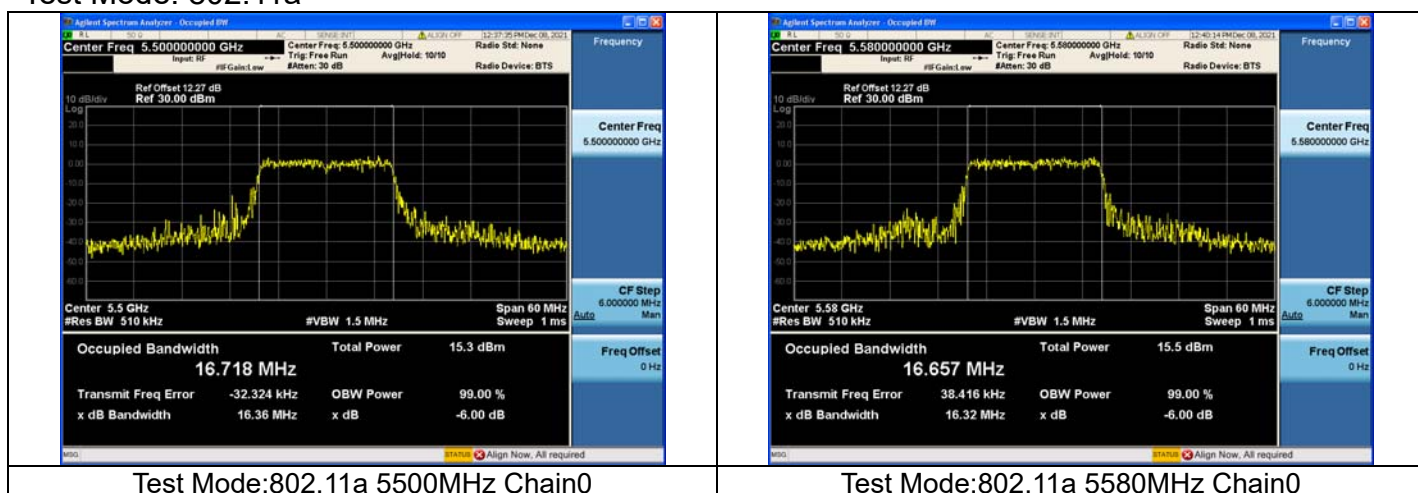
Offset 12.27dB = Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1.77dB

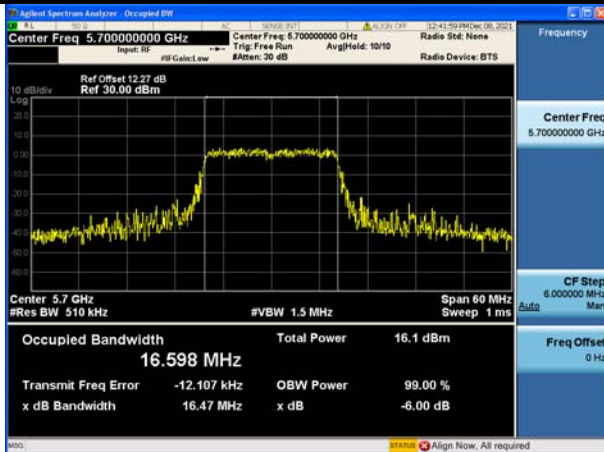
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.618	Channel No.634	Channel No.658
		5500MHz	5580MHz	5700MHz
802.11a	Chain0	16.718	16.657	16.598
802.11n HT20	Chain0	17.701	17.798	17.733

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.620	Channel No.636	Channel No.652
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	36.259	36.283	36.272

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.624	---	Channel No.640
		5530MHz	---	5610MHz
802.11ac VHT80	Chain0	76.190	---	76.280

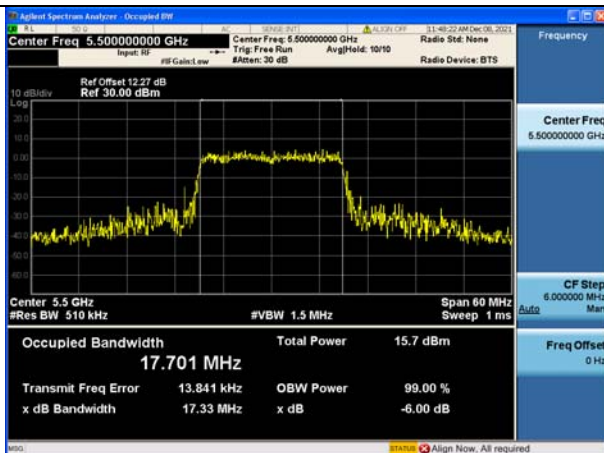
Test Mode: 802.11a



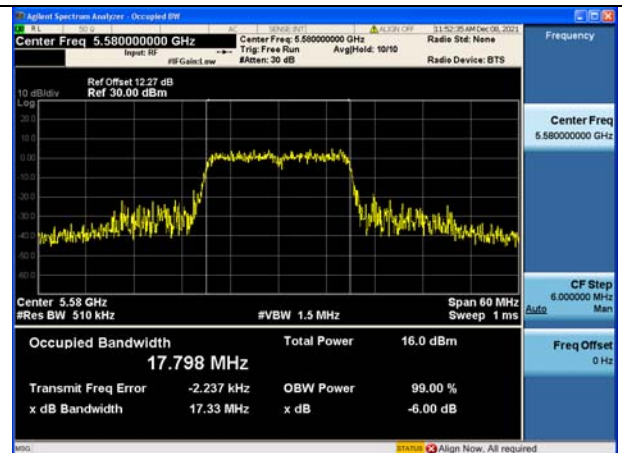


Test Mode:802.11a 5700MHz Chain0

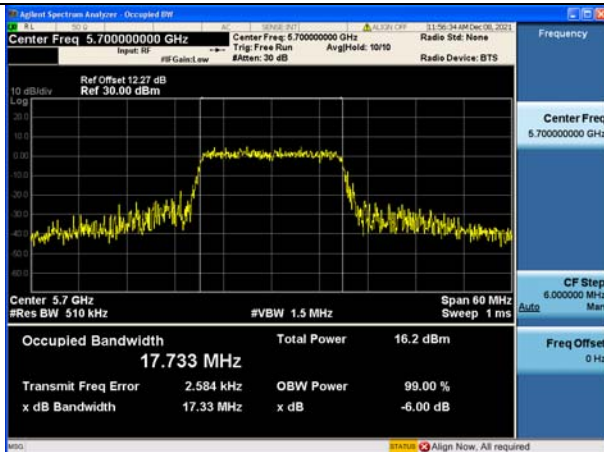
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5500MHz Chain0

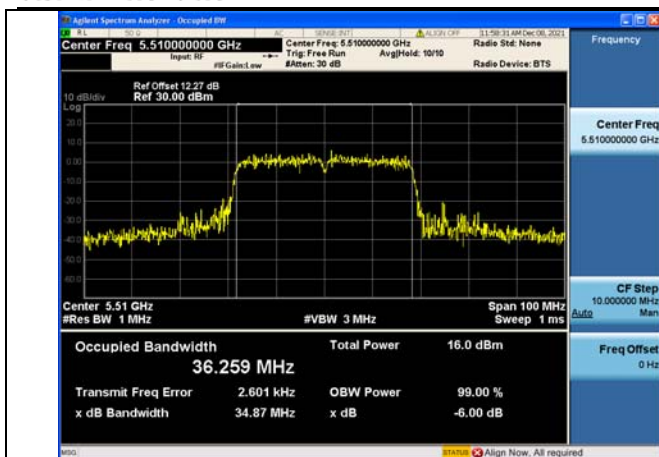


Test Mode:802.11n HT20 5580MHz Chain0

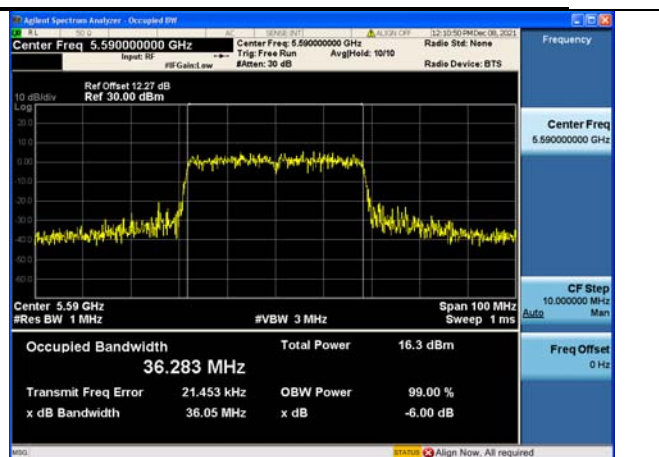


Test Mode:802.11n HT20 5700MHz Chain0

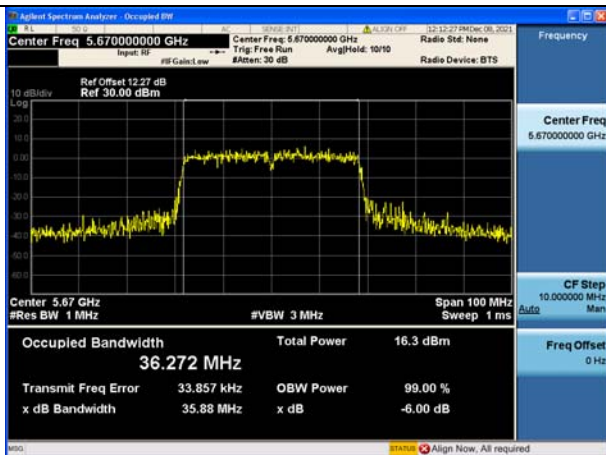
Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5510MHz Chain0

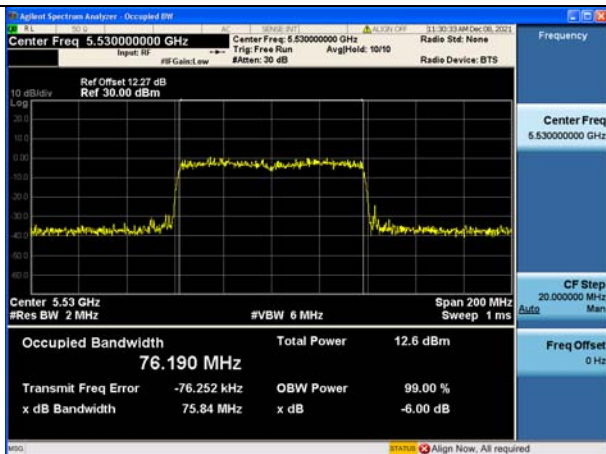


Test Mode:802.11n HT40 5590MHz Chain0

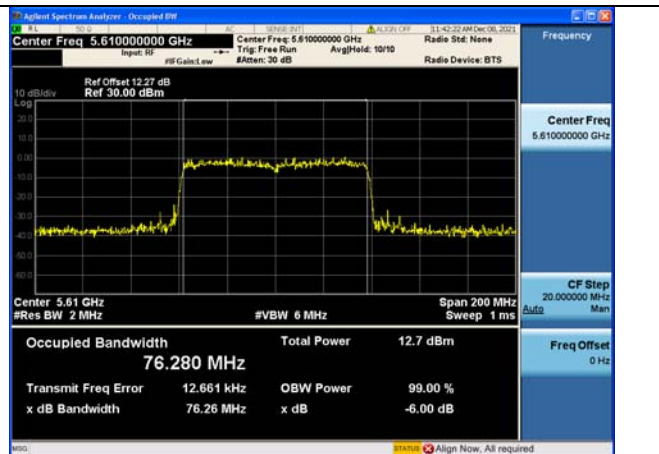


Test Mode:802.11n HT40 5670MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5530MHz Chain0



Test Mode:802.11ac VHT80 5610MHz Chain0

Transmitter Power Spectral Density

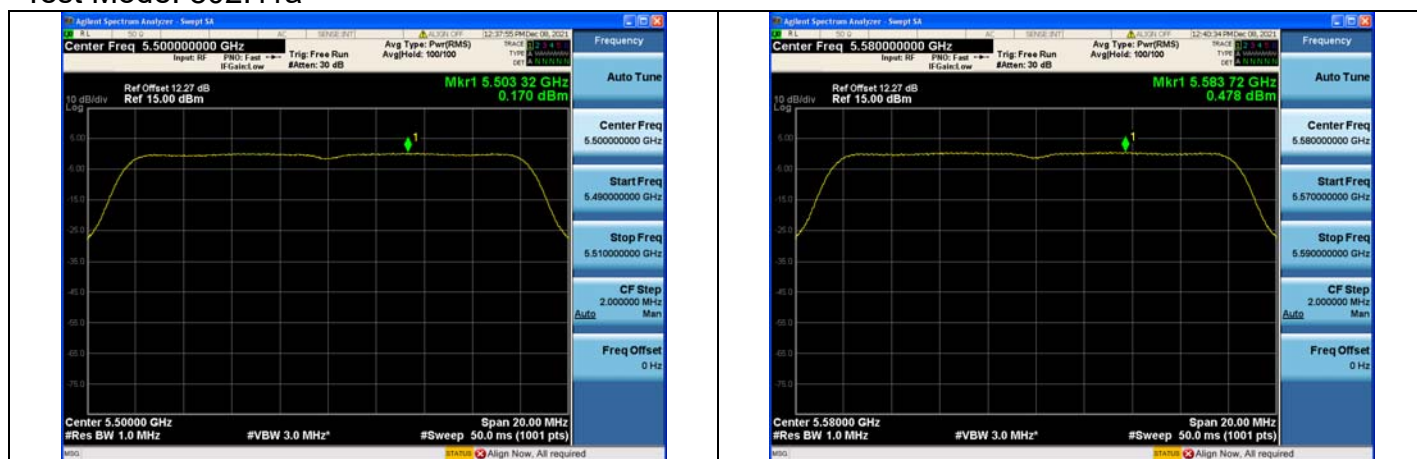
Offset 12.27dB = Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1.77dB

Test Mode	Antenna	5500MHz		5580MHz		5700MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11a	Chain0	0.12	0.170	0.12	0.478	0.12	0.413
802.11n HT20	Chain0	0.12	0.147	0.12	0.765	0.12	0.596

Test Mode	Antenna	5510MHz		5590MHz		5670MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11n HT40	Chain0	0.22	-3.210	0.22	-2.702	0.22	-2.549

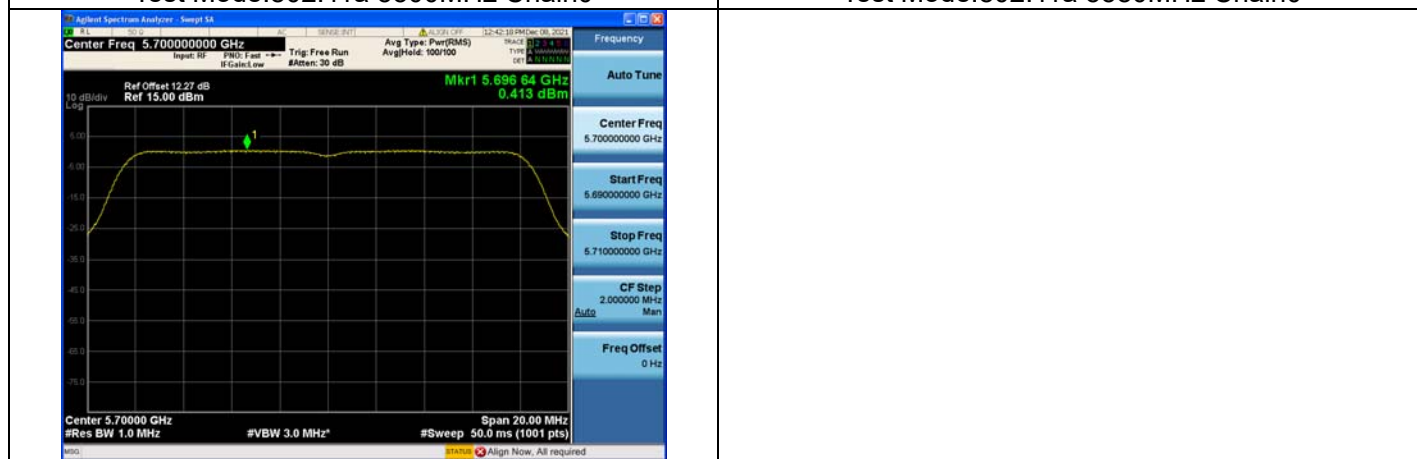
Test Mode	Antenna	5530MHz		---		5610MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11ac VHT80	Chain0	0.39	-9.205	---	---	0.39	-8.647

Test Mode: 802.11a



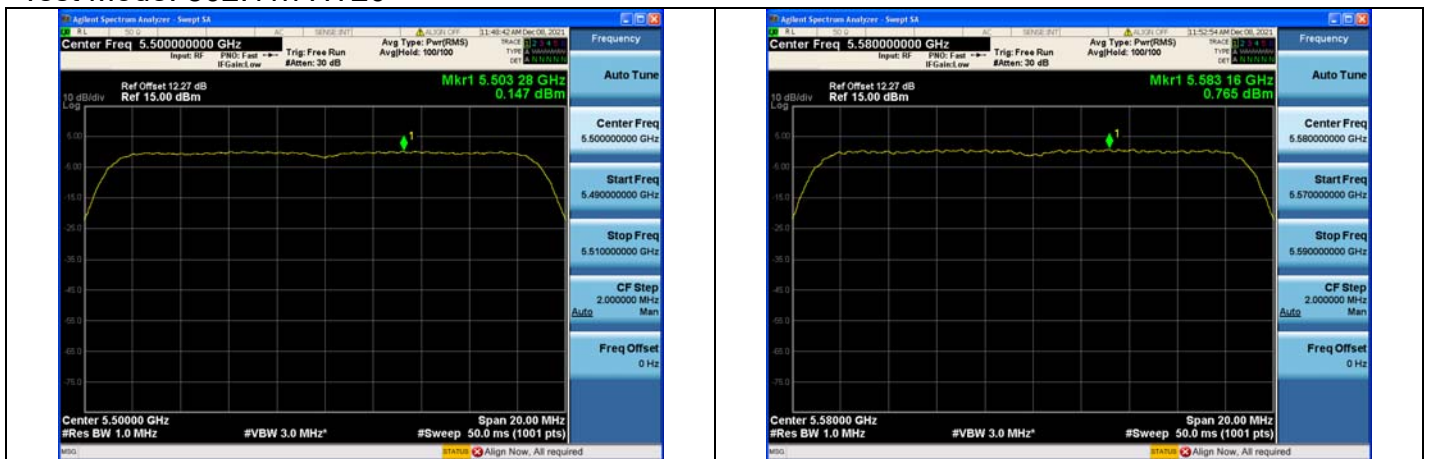
Test Mode:802.11a 5500MHz Chain0

Test Mode:802.11a 5580MHz Chain0



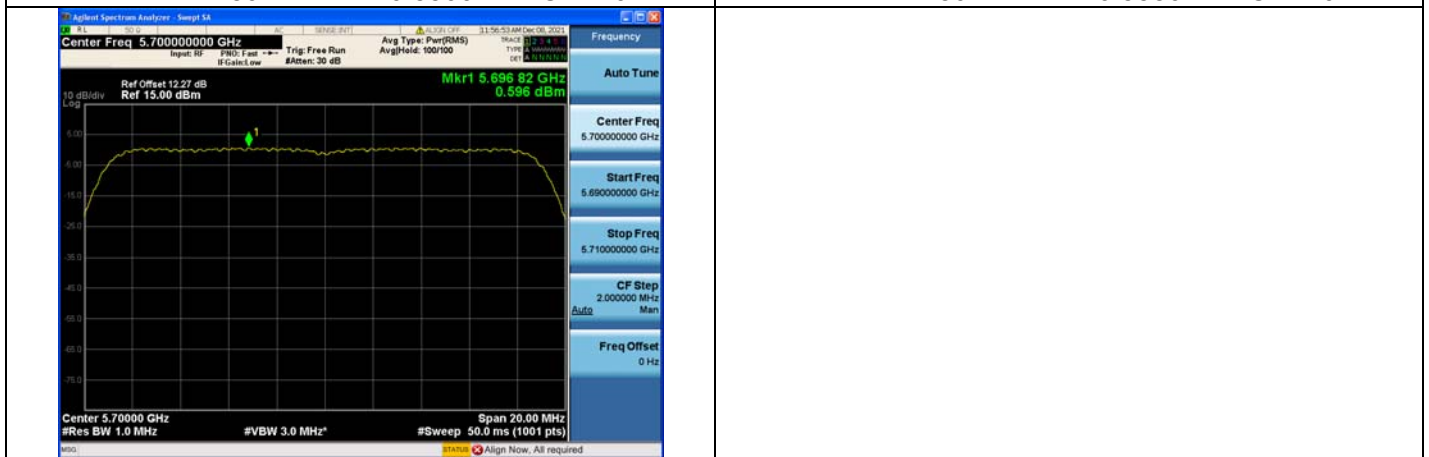
Test Mode:802.11a 5700MHz Chain0

Test Mode: 802.11n HT20



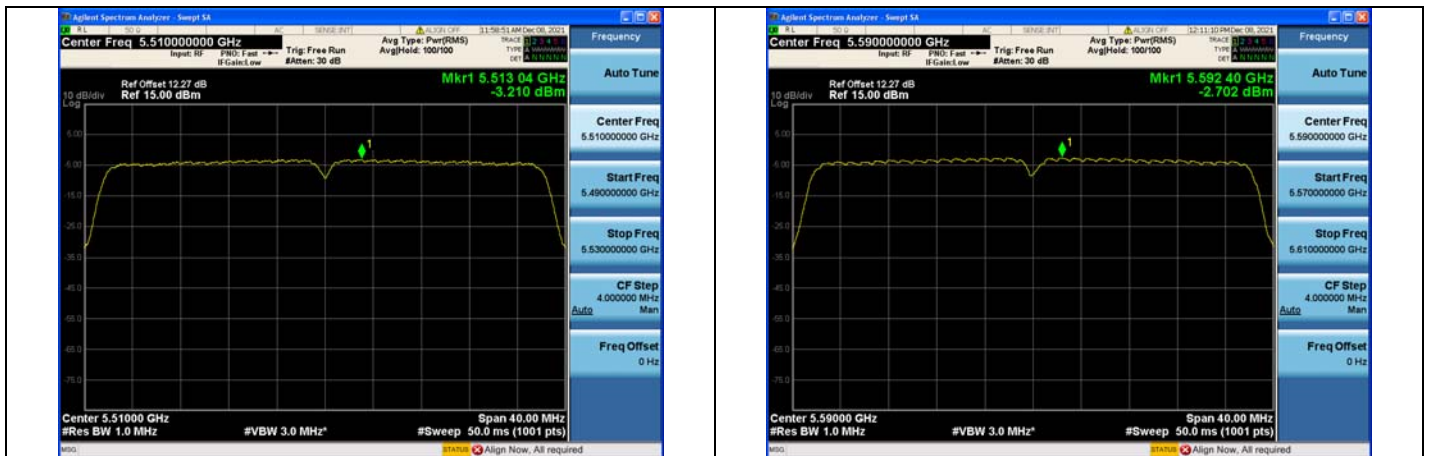
Test Mode:802.11n HT20 5500MHz Chain0

Test Mode:802.11n HT20 5580MHz Chain0



Test Mode:802.11n HT20 5700MHz Chain0

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5510MHz Chain0

Test Mode:802.11n HT40 5590MHz Chain0



Test Mode:802.11n HT40 5670MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5530MHz Chain0



Test Mode:802.11ac VHT80 5610MHz Chain0