

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5500	86.10%	0.65	Fig.1
802.11n HT20	5500	84.45%	0.73	Fig.2
802.11ac VHT20	5500	83.87%	0.76	Fig.3
802.11n HT40	5510	76.92%	1.14	Fig.4
802.11ac VHT40	5510	77.01%	1.13	Fig.5
802.11ac VHT80	5530	68.40%	1.65	Fig.6

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

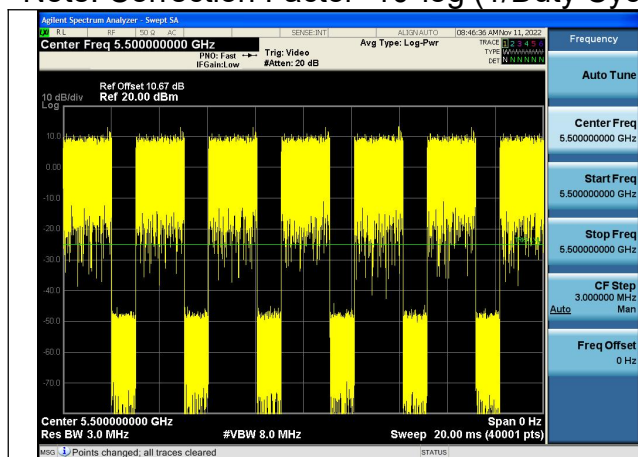


Fig.1

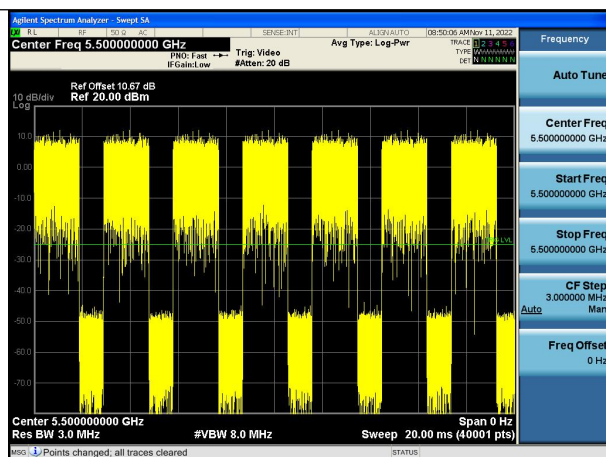


Fig.2

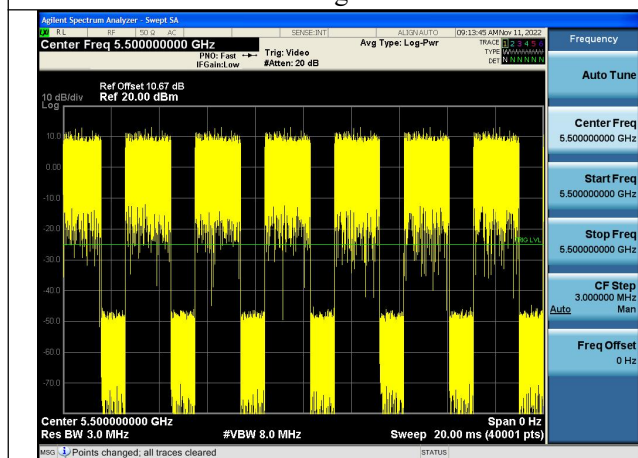


Fig.3

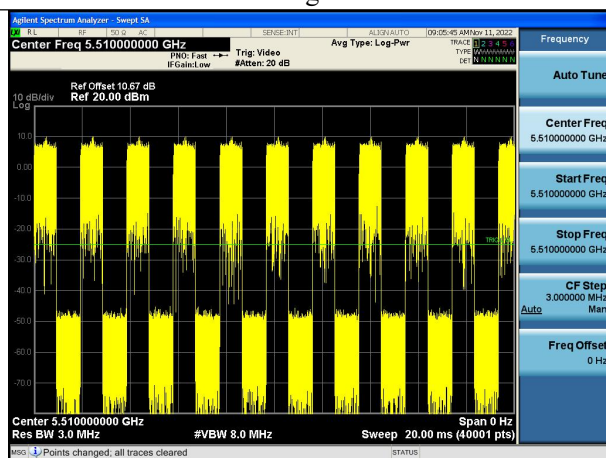


Fig.4

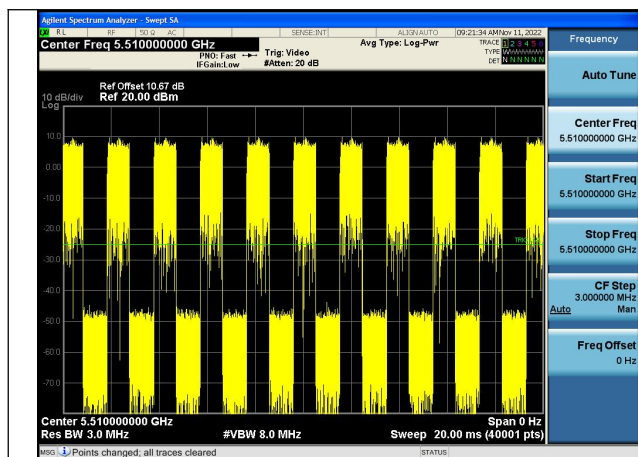


Fig.5

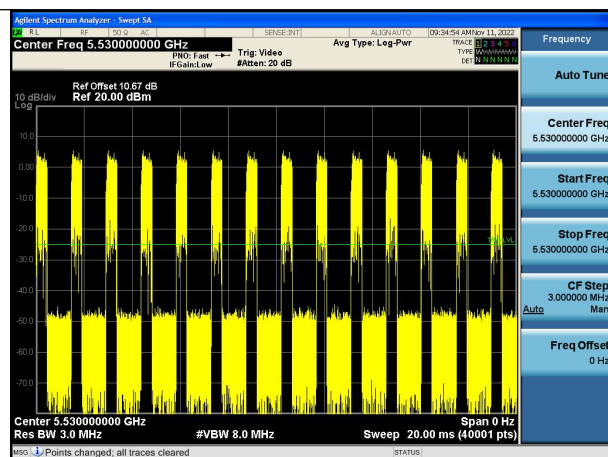


Fig.6

Output Power

Mode	Tones/ RUIndex	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5500	Chain0	13.26	16.26
802.11a	NA	5580	Chain0	13.26	16.26
802.11a	NA	5700	Chain0	12.23	15.23
802.11n HT20	NA	5500	Chain0	13.87	16.87
802.11n HT20	NA	5580	Chain0	13.88	16.88
802.11n HT20	NA	5700	Chain0	12.86	15.86
802.11ac VHT20	NA	5500	Chain0	13.94	16.94
802.11ac VHT20	NA	5580	Chain0	13.92	16.92
802.11ac VHT20	NA	5700	Chain0	12.95	15.95
802.11n HT40	NA	5510	Chain0	13.20	16.20
802.11n HT40	NA	5590	Chain0	13.06	16.06
802.11n HT40	NA	5670	Chain0	12.56	15.56
802.11ac VHT40	NA	5510	Chain0	13.36	16.36
802.11ac VHT40	NA	5590	Chain0	13.22	16.22
802.11ac VHT40	NA	5670	Chain0	12.71	15.71
802.11ac VHT80	NA	5530	Chain0	11.73	14.73
802.11ac VHT80	NA	5610	Chain0	11.54	14.54

Emission Bandwidth

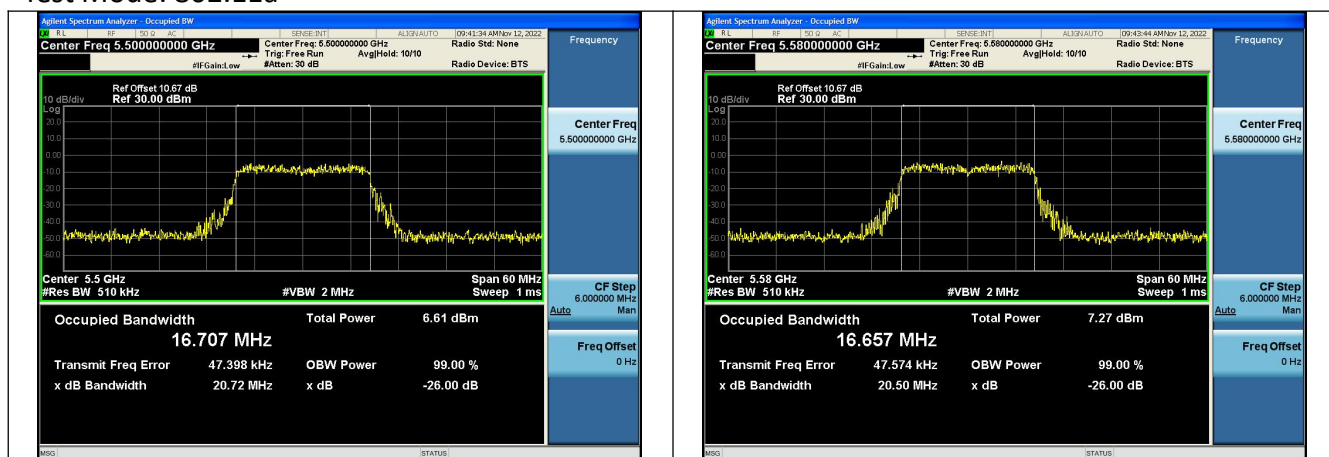
Offset 10.67dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.618	Channel No.634	Channel No.658
		5500MHz	5580MHz	5700MHz
802.11a	Chain0	20.72	20.50	21.38
802.11n HT20	Chain0	21.25	21.18	21.29
802.11ac VHT20	Chain0	21.69	20.58	21.54

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.620	Channel No.636	Channel No.652
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	40.41	41.80	41.79
802.11ac VHT40	Chain0	41.59	40.79	40.59

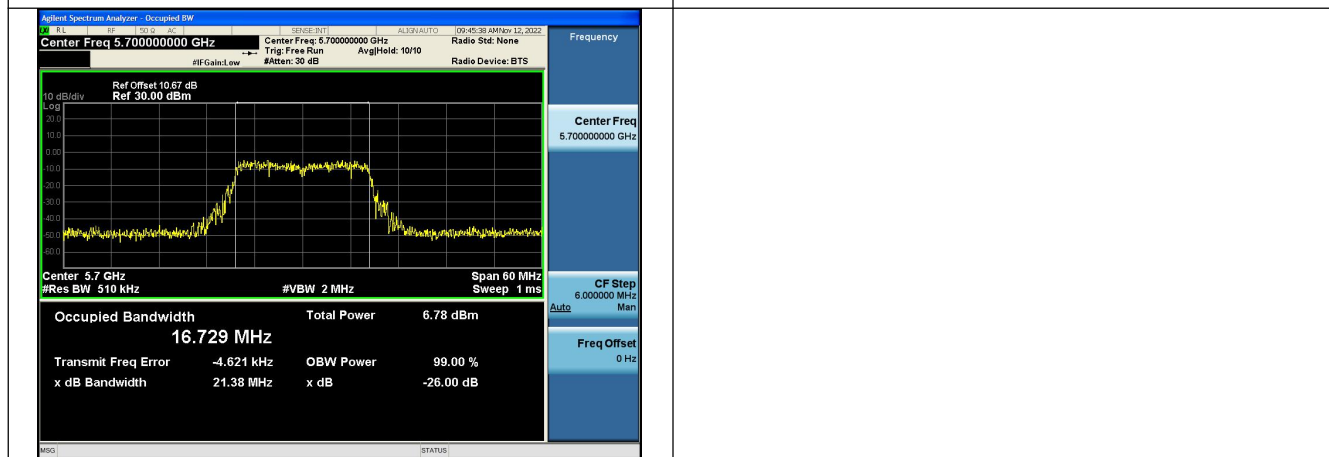
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.624	---	Channel No.640
		5530MHz	---	5610MHz
802.11ac VHT80	Chain0	80.47	---	80.88

Test Mode: 802.11a



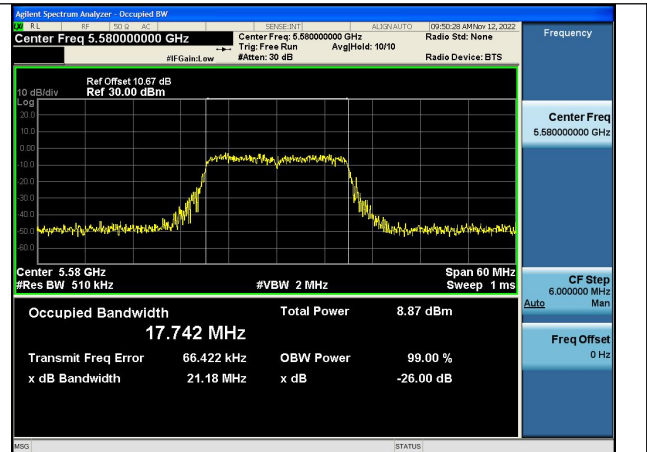
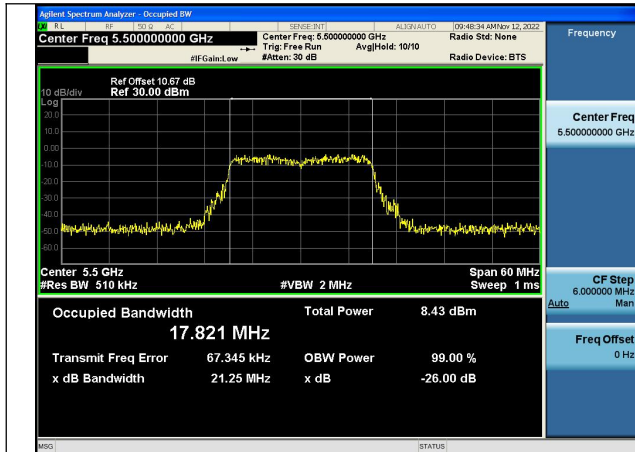
Test Mode:802.11a 5500MHz Chain0

Test Mode:802.11a 5580MHz Chain0

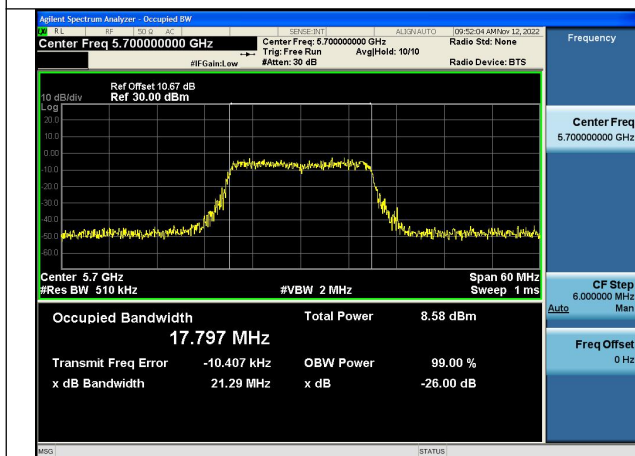


Test Mode:802.11a 5700MHz Chain0

Test Mode: 802.11n HT20



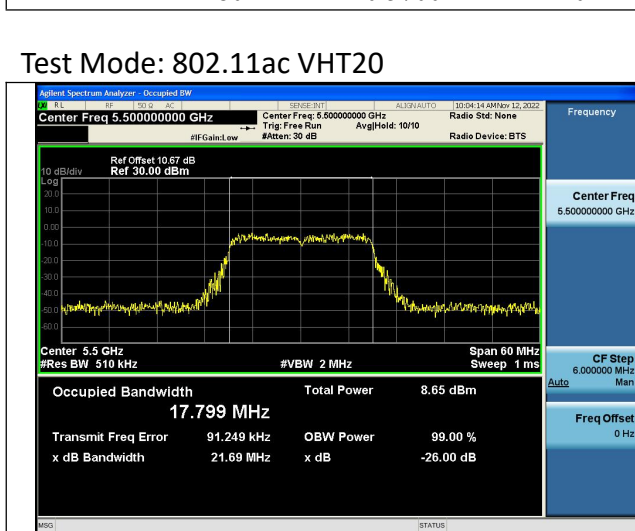
Test Mode: 802.11n HT20 5500MHz Chain0



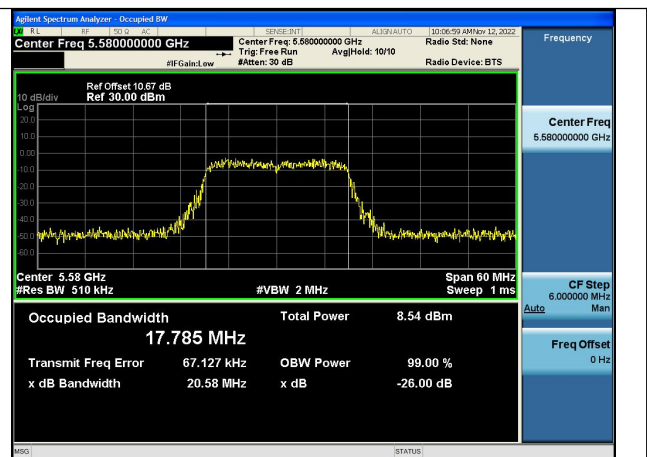
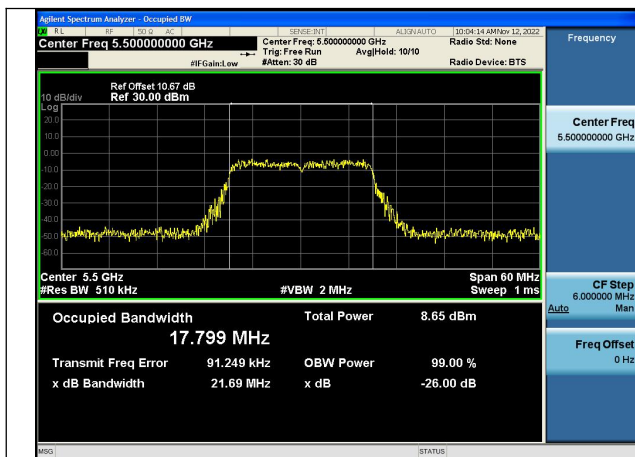
Test Mode: 802.11n HT20 5580MHz Chain0



Test Mode: 802.11n HT20 5700MHz Chain0

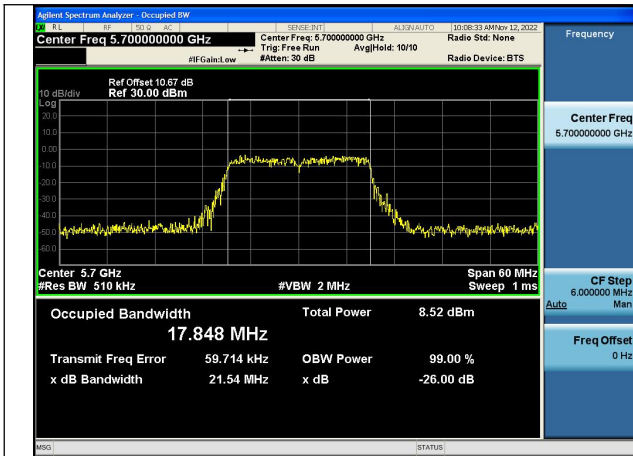


Test Mode: 802.11ac VHT20



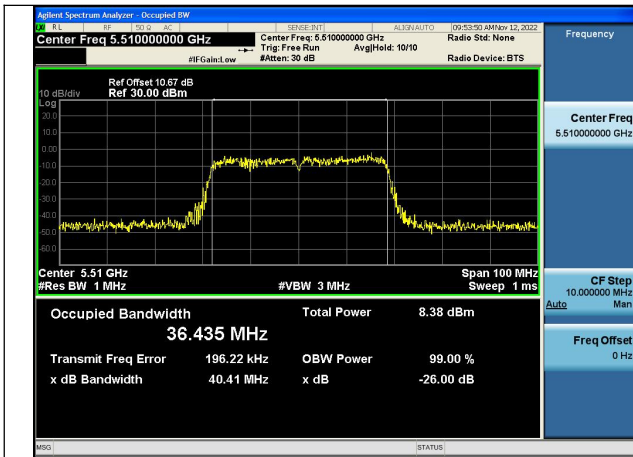
Test Mode: 802.11ac VHT20 5500MHz Chain0

Test Mode: 802.11ac VHT20 5580MHz Chain0

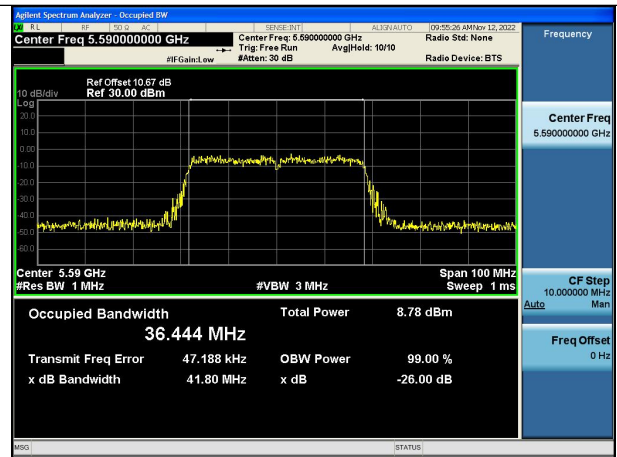


Test Mode:802.11ac VHT20 5700MHz Chain0

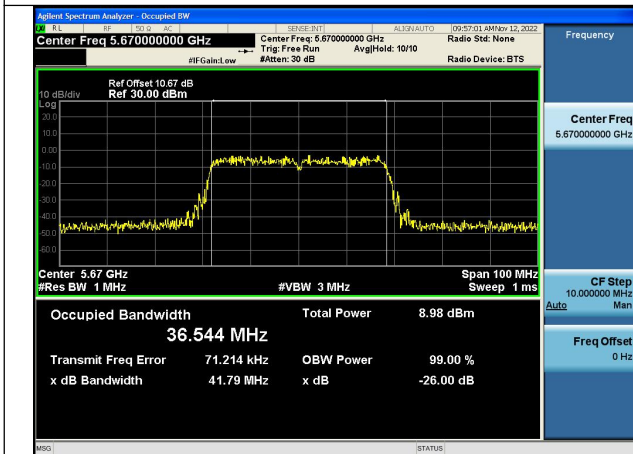
Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5510MHz Chain0

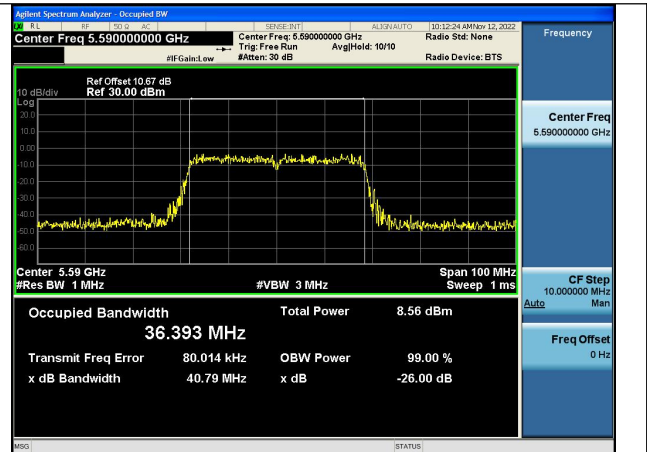
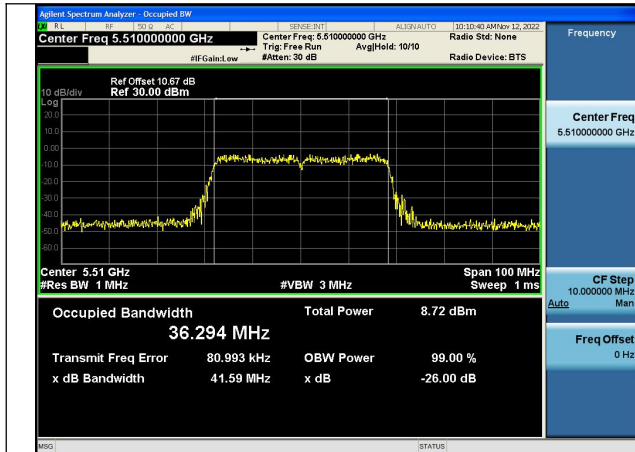


Test Mode:802.11n HT40 5590MHz Chain0



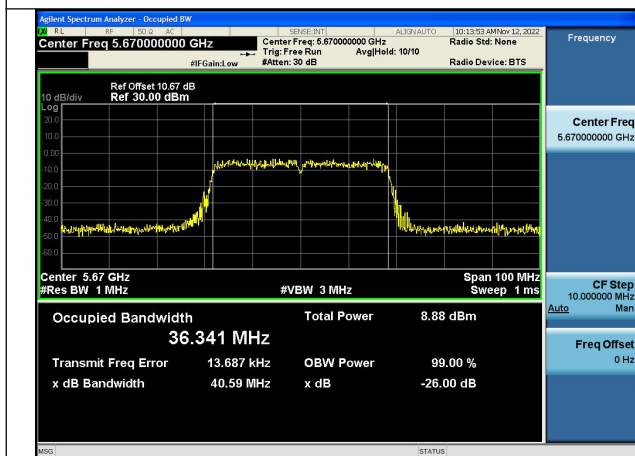
Test Mode:802.11n HT40 5670MHz Chain0

Test Mode: 802.11ac VHT40



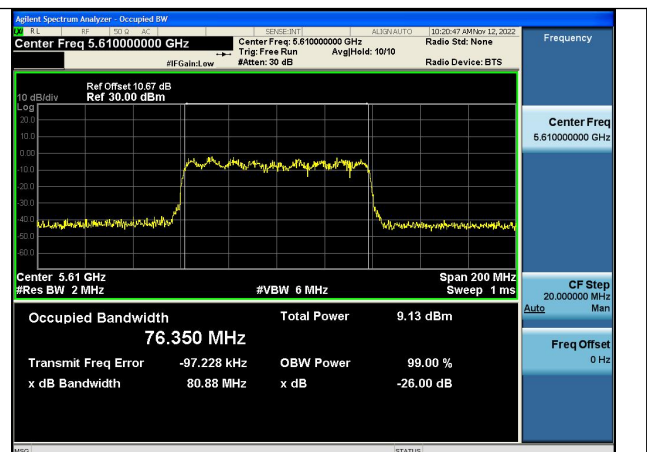
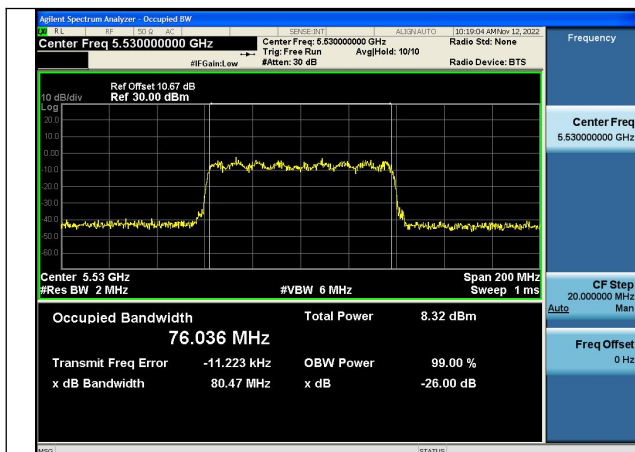
Test Mode:802.11ac VHT40 5510MHz Chain0

Test Mode:802.11ac VHT40 5590MHz Chain0



Test Mode:802.11ac VHT40 5670MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5530MHz Chain0

Test Mode:802.11ac VHT80 5610MHz Chain0

Occupied Bandwidth

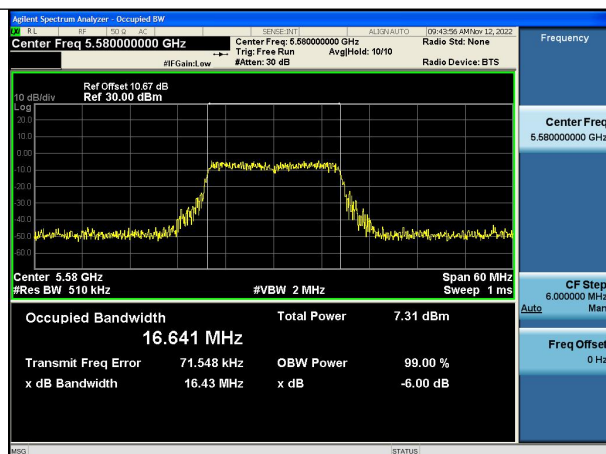
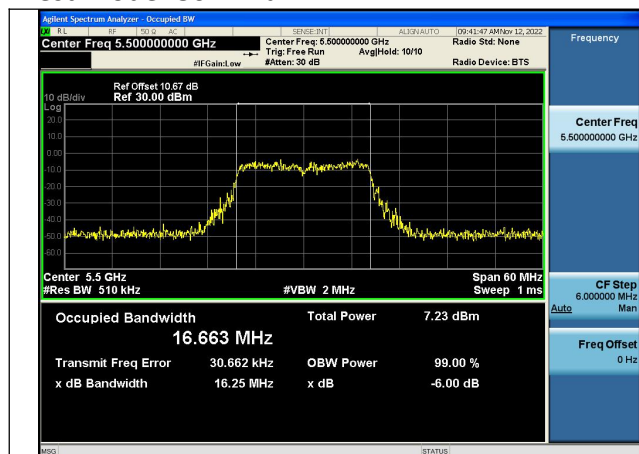
Offset 10.67dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.618	Channel No.634	Channel No.658
		5500MHz	5580MHz	5700MHz
802.11a	Chain0	16.663	16.641	16.656
802.11n HT20	Chain0	17.789	17.863	17.751
802.11ac VHT20	Chain0	17.835	17.779	17.834

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.620	Channel No.636	Channel No.652
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	36.464	36.367	36.402
802.11ac VHT40	Chain0	36.450	36.384	36.473

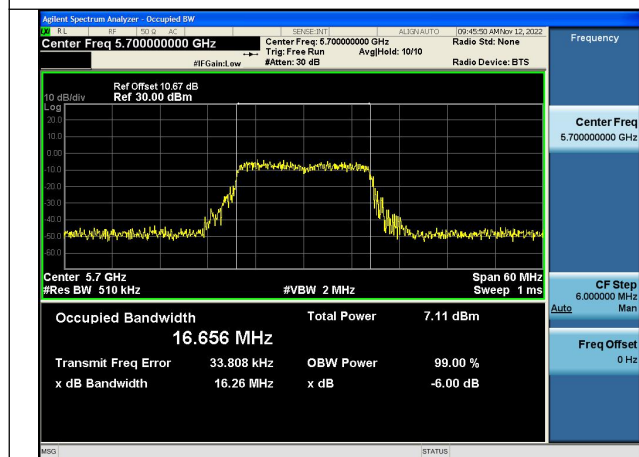
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.624	---	Channel No.640
		5530MHz	---	5610MHz
802.11ac VHT80	Chain0	76.200	---	76.488

Test Mode: 802.11a



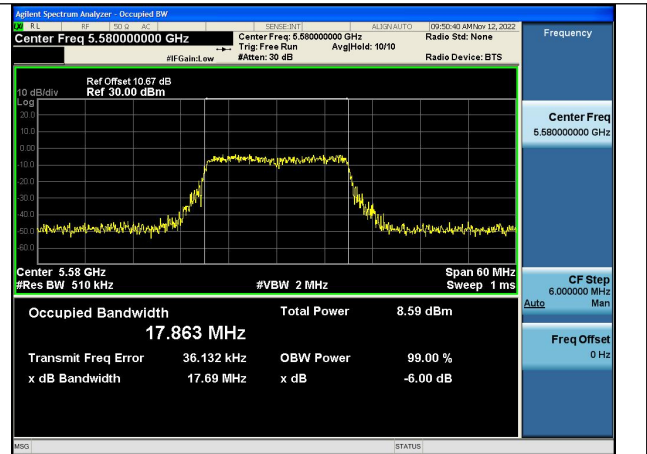
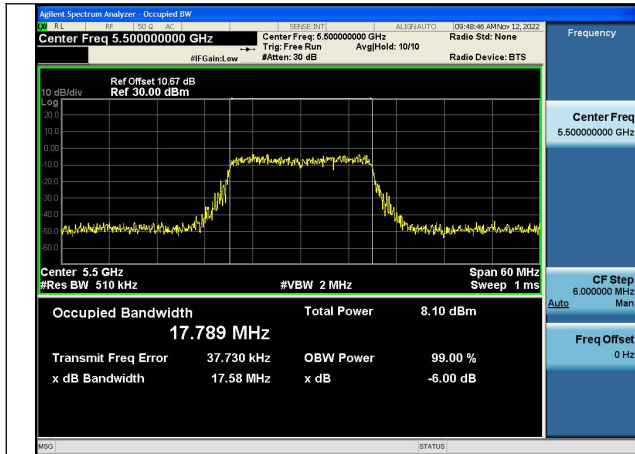
Test Mode: 802.11a 5500MHz Chain0

Test Mode: 802.11a 5580MHz Chain0

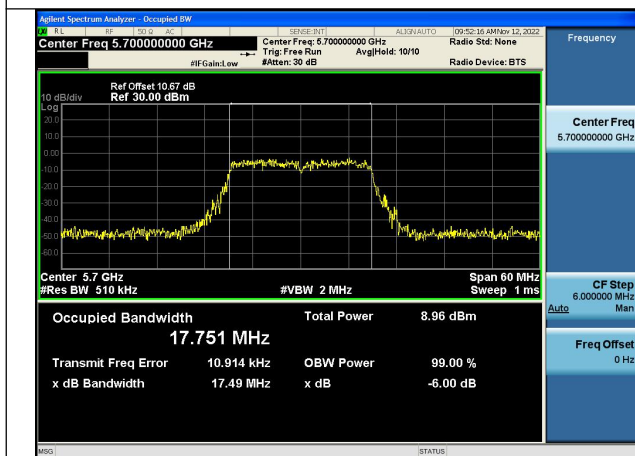


Test Mode: 802.11a 5700MHz Chain0

Test Mode: 802.11n HT20



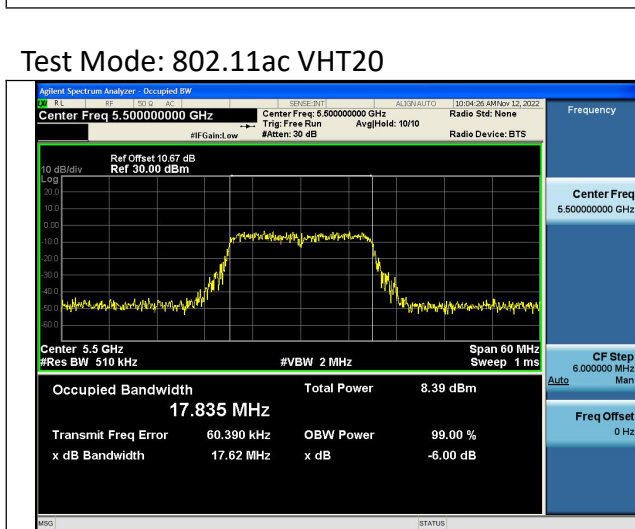
Test Mode:802.11n HT20 5500MHz Chain0



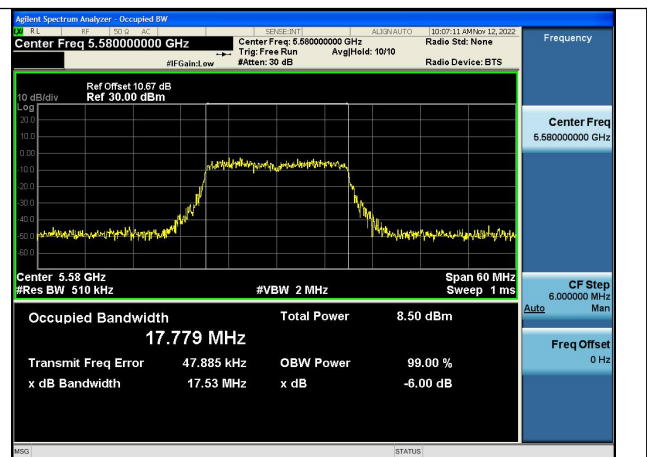
Test Mode:802.11n HT20 5580MHz Chain0



Test Mode:802.11n HT20 5700MHz Chain0

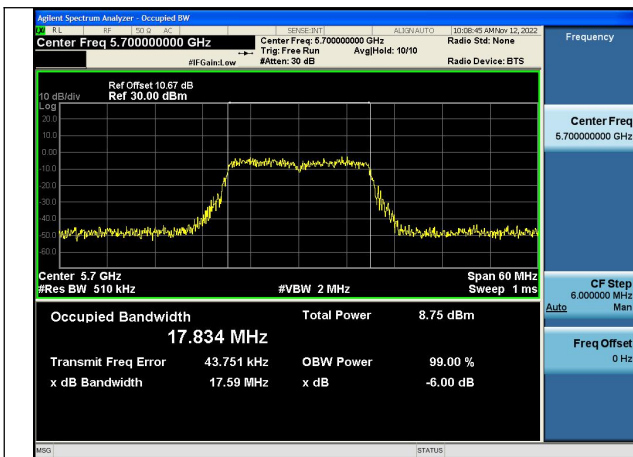


Test Mode: 802.11ac VHT20



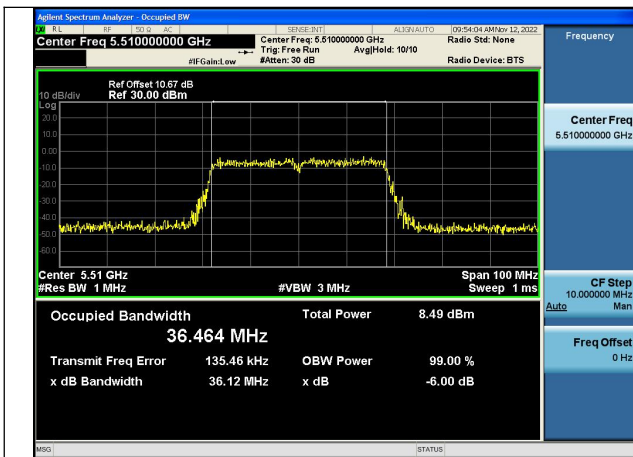
Test Mode:802.11ac VHT20 5500MHz Chain0

Test Mode:802.11ac VHT20 5580MHz Chain0

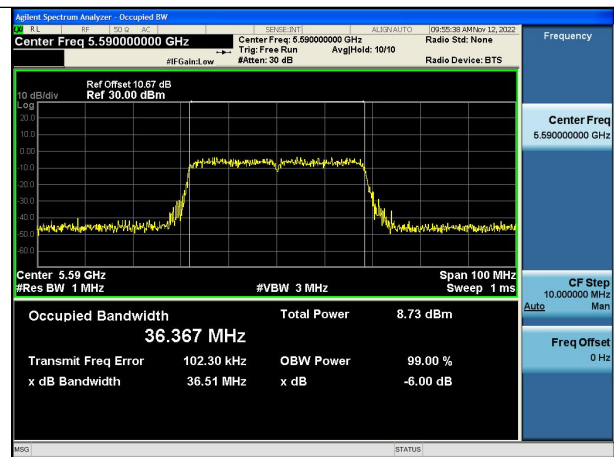


Test Mode:802.11ac VHT20 5700MHz Chain0

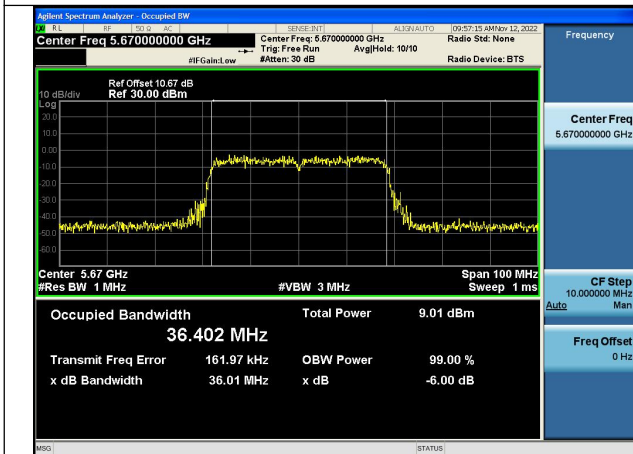
Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5510MHz Chain0

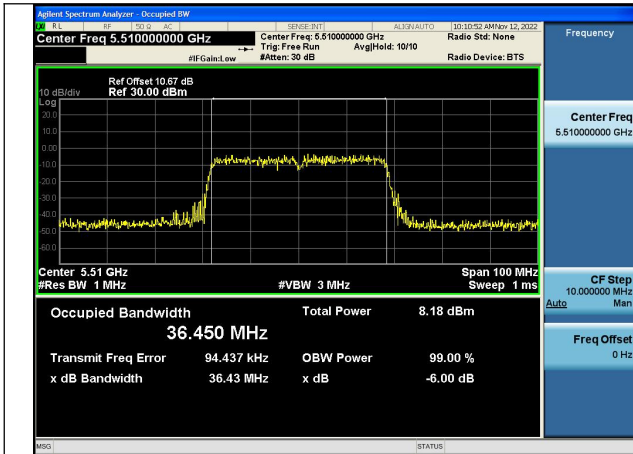


Test Mode:802.11n HT40 5590MHz Chain0



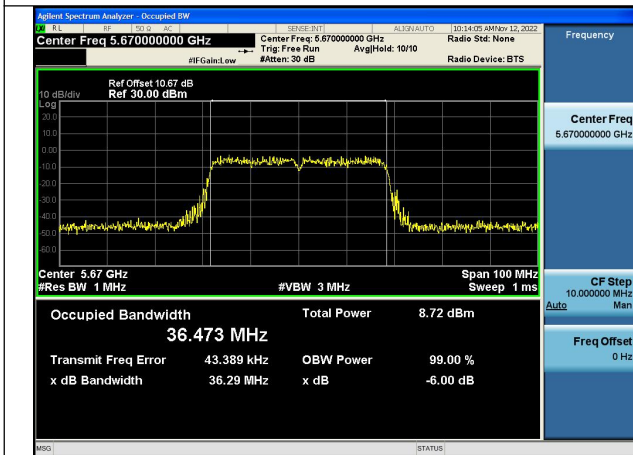
Test Mode:802.11n HT40 5670MHz Chain0

Test Mode: 802.11ac VHT40



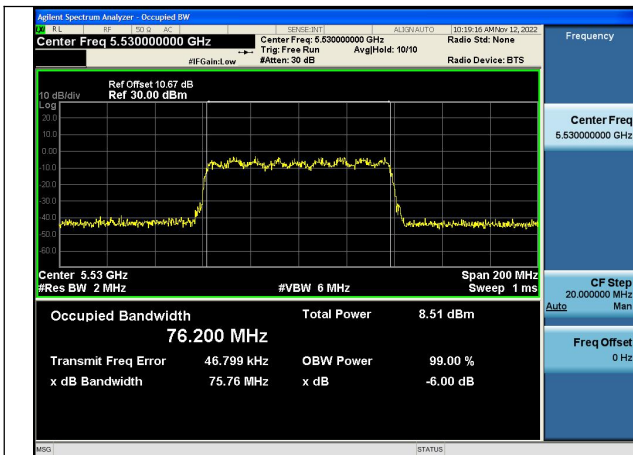
Test Mode: 802.11ac VHT40 5510MHz Chain0

Test Mode: 802.11ac VHT40 5590MHz Chain0

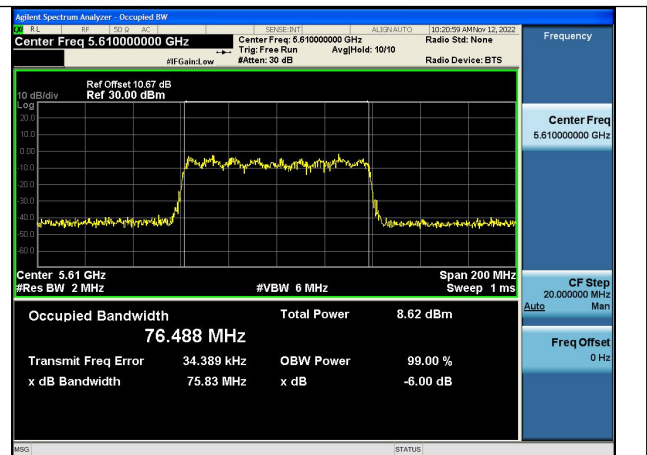


Test Mode: 802.11ac VHT40 5670MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode: 802.11ac VHT80 5530MHz Chain0



Test Mode: 802.11ac VHT80 5610MHz Chain0

Transmitter Power Spectral Density

Offset 10.89dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Tones	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	NA	0.67	2.876	0.67	2.850	0.67	1.775
802.11n HT20	Chain0	NA	0.72	3.182	0.72	3.352	0.72	2.089
802.11ac VHT20	Chain0	NA	0.76	3.398	0.76	3.352	0.76	2.442

Test Mode	Antenna	Tones	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	NA	1.13	0.252	1.13	0.301	1.13	-0.654
802.11ac VHT40	Chain0	NA	1.14	1.066	1.14	0.169	1.14	0.123

Test Mode	Antenna	Tones	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	NA	1.62	-2.282	---	---	1.62	-2.051

Test Mode: 802.11a

