

## APPENDIX A – TEST DATA OF CONDUCTED EMISSION

### Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5500	88.75%	0.52
802.11a	5500	87.80%	0.57
802.11n HT20	5500	87.01%	0.60
802.11n HT20	5500	87.61%	0.57
802.11ac VHT20	5500	87.55%	0.58
802.11ac VHT20	5500	87.23%	0.59
802.11n HT40	5510	80.74%	0.93
802.11n HT40	5510	80.76%	0.93
802.11ac VHT40	5510	80.57%	0.94
802.11ac VHT40	5510	80.85%	0.92
802.11ac VHT80	5530	72.40%	1.40
802.11ac VHT80	5530	72.72%	1.38

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	18.90	22.97
802.11a	NA	5500	Chain1	17.99	20.49
802.11a	NA	5580	Chain0	19.11	23.18
802.11a	NA	5580	Chain1	17.98	20.48
802.11a	NA	5700	Chain0	19.79	23.86
802.11a	NA	5700	Chain1	17.77	20.27
802.11n HT20	NA	5500	Chain0	18.07	22.14
802.11n HT20	NA	5500	Chain1	16.98	19.48
802.11n HT20	NA	5500	MIMO	20.57	23.92
802.11n HT20	NA	5580	Chain0	18.21	22.28
802.11n HT20	NA	5580	Chain1	16.71	19.21
802.11n HT20	NA	5580	MIMO	20.53	22.88
802.11n HT20	NA	5700	Chain0	18.58	22.65
802.11n HT20	NA	5700	Chain1	16.47	18.97
802.11n HT20	NA	5700	MIMO	20.66	24.01
802.11ac VHT20	NA	5500	Chain0	18.14	22.21
802.11ac VHT20	NA	5500	Chain1	16.36	18.86
802.11ac VHT20	NA	5500	MIMO	20.35	23.70
802.11ac VHT20	NA	5580	Chain0	18.41	22.48
802.11ac VHT20	NA	5580	Chain1	16.54	19.04
802.11ac VHT20	NA	5580	MIMO	20.59	23.94
802.11ac VHT20	NA	5700	Chain0	18.75	22.82
802.11ac VHT20	NA	5700	Chain1	16.41	18.91
802.11ac VHT20	NA	5700	MIMO	20.75	24.10
802.11n HT40	NA	5510	Chain0	17.87	21.94
802.11n HT40	NA	5510	Chain1	15.81	18.31

802.11n HT40	NA	5510	MIMO	19.97	23.32
802.11n HT40	NA	5590	Chain0	17.29	21.36
802.11n HT40	NA	5590	Chain1	15.61	18.11
802.11n HT40	NA	5590	MIMO	19.54	22.89
802.11n HT40	NA	5670	Chain0	17.16	21.23
802.11n HT40	NA	5670	Chain1	16.08	18.58
802.11n HT40	NA	5670	MIMO	19.66	23.01
802.11ac VHT40	NA	5510	Chain0	17.80	21.87
802.11ac VHT40	NA	5510	Chain1	15.73	18.23
802.11ac VHT40	NA	5510	MIMO	19.90	23.25
802.11ac VHT40	NA	5590	Chain0	17.15	21.22
802.11ac VHT40	NA	5590	Chain1	16.09	18.59
802.11ac VHT40	NA	5590	MIMO	19.66	23.01
802.11ac VHT40	NA	5670	Chain0	17.56	21.63
802.11ac VHT40	NA	5670	Chain1	16.04	18.54
802.11ac VHT40	NA	5670	MIMO	19.88	23.23
802.11ac VHT80	NA	5530	Chain0	15.70	19.77
802.11ac VHT80	NA	5530	Chain1	13.97	16.47
802.11ac VHT80	NA	5530	MIMO	17.93	21.28
802.11ac VHT80	NA	5610	Chain0	15.16	19.23
802.11ac VHT80	NA	5610	Chain1	13.42	15.92
802.11ac VHT80	NA	5610	MIMO	17.39	20.74

## Emission Bandwidth

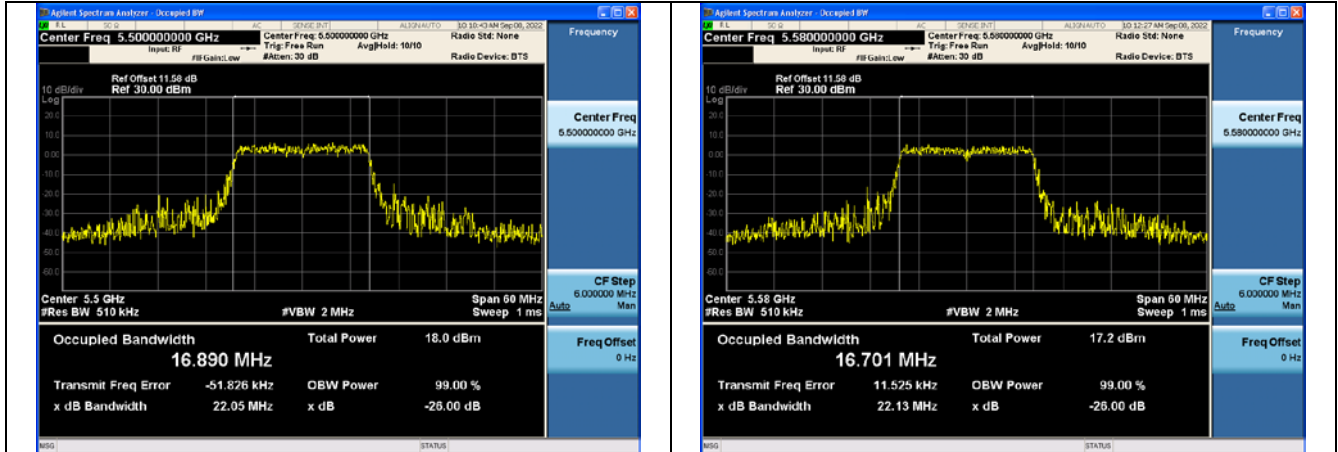
Offset 11.58dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.618	Channel No.634	Channel No.658
		5500MHz	5580MHz	5700MHz
802.11a	Chain0	22.05	22.13	22.88
802.11a	Chain1	23.32	19.23	19.82
802.11n HT20	Chain0	23.77	21.18	24.62
802.11n HT20	Chain1	24.63	24.76	23.55
802.11ac VHT20	Chain0	27.22	29.68	25.95
802.11ac VHT20	Chain1	25.03	21.20	25.46

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.620	Channel No.636	Channel No.652
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	46.86	47.04	49.44
802.11n HT40	Chain1	48.51	40.70	41.27
802.11ac VHT40	Chain0	48.81	40.28	49.24
802.11ac VHT40	Chain1	46.97	40.73	41.42

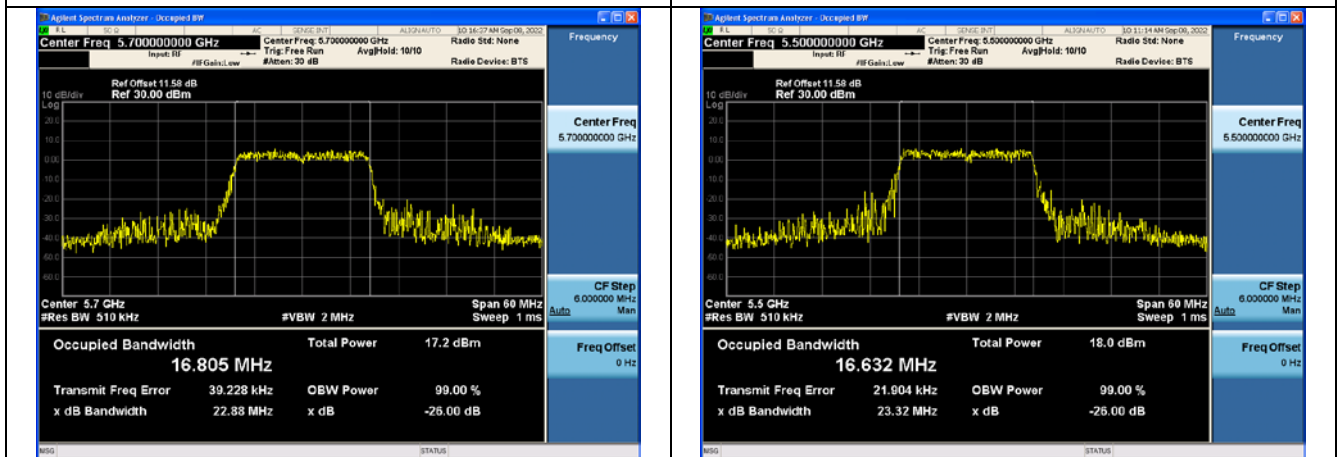
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.624	---	Channel No.640
		5530MHz	---	5610MHz
802.11ac VHT80	Chain0	86.39	---	84.70
802.11ac VHT80	Chain1	80.32	---	83.78

Test Mode: 802.11a



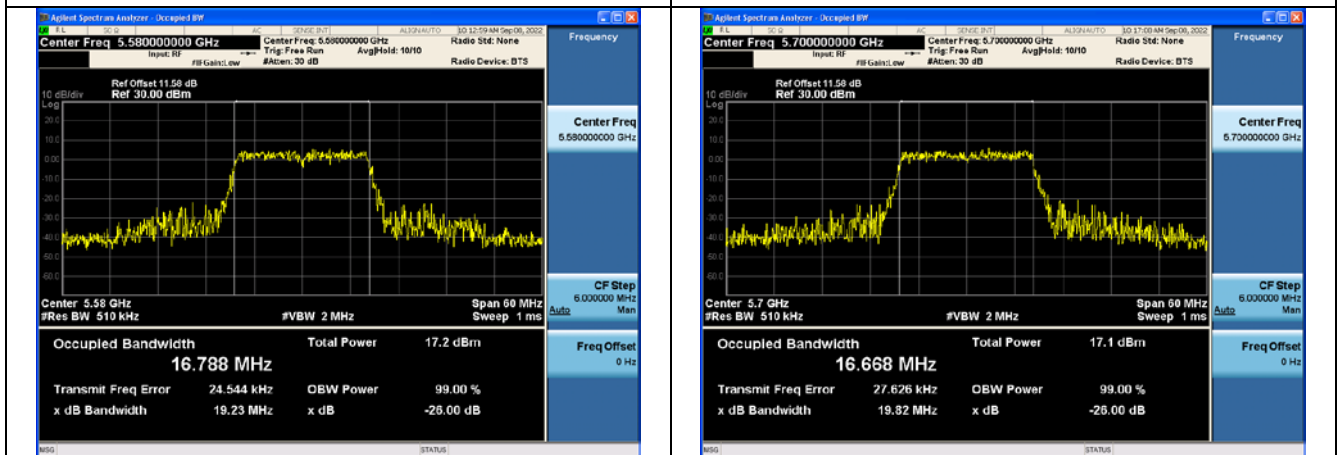
Test Mode:802.11a 5500MHz Chain0

Test Mode:802.11a 5580MHz Chain0



Test Mode:802.11a 5700MHz Chain0

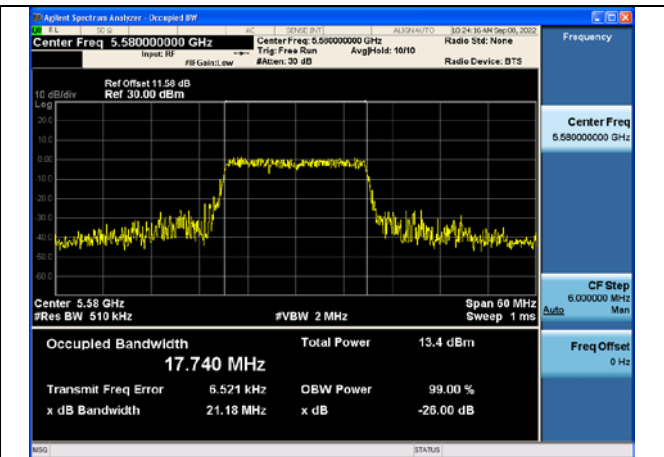
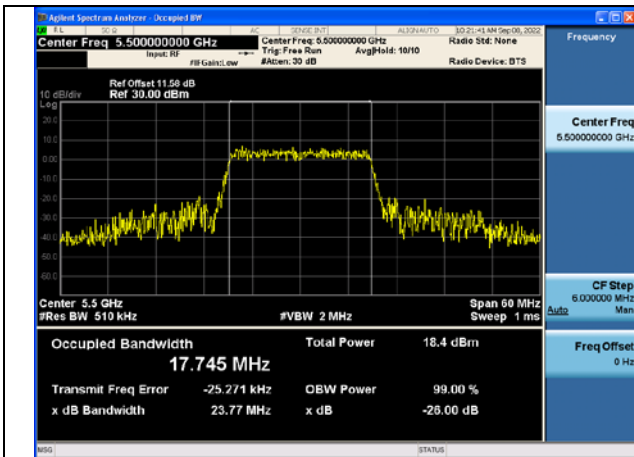
Test Mode:802.11a 5500MHz Chain1



Test Mode:802.11a 5580MHz Chain1

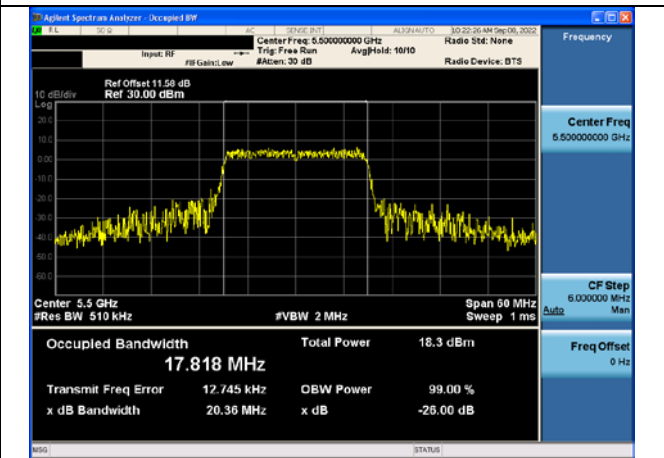
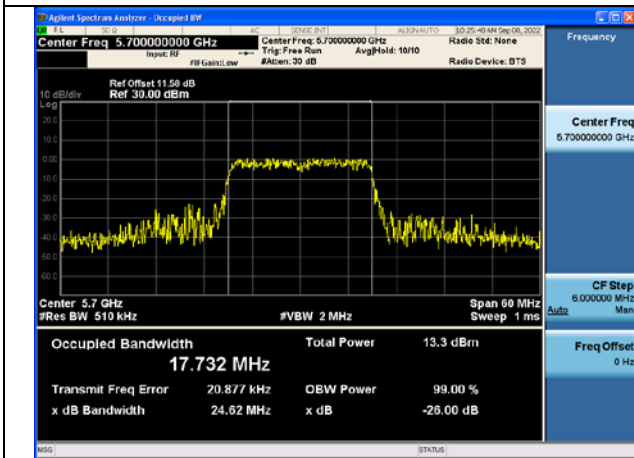
Test Mode:802.11a 5700MHz Chain1

Test Mode: 802.11n HT20



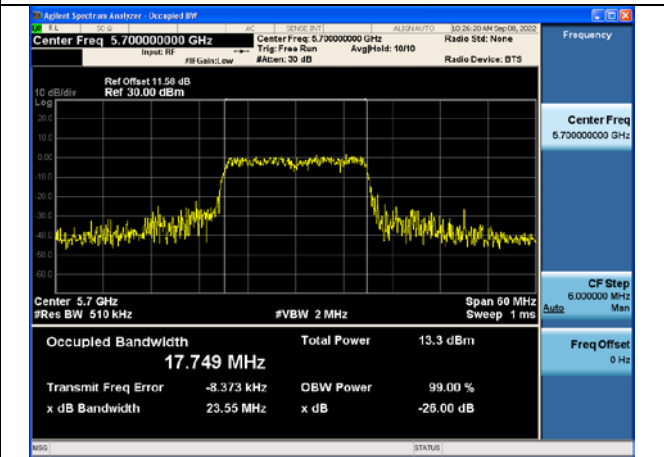
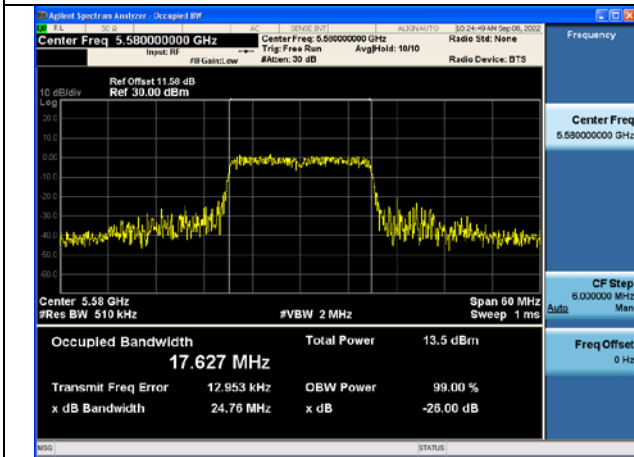
Test Mode:802.11n HT20 5500MHz Chain0

Test Mode:802.11n HT20 5580MHz Chain0



Test Mode:802.11n HT20 5700MHz Chain0

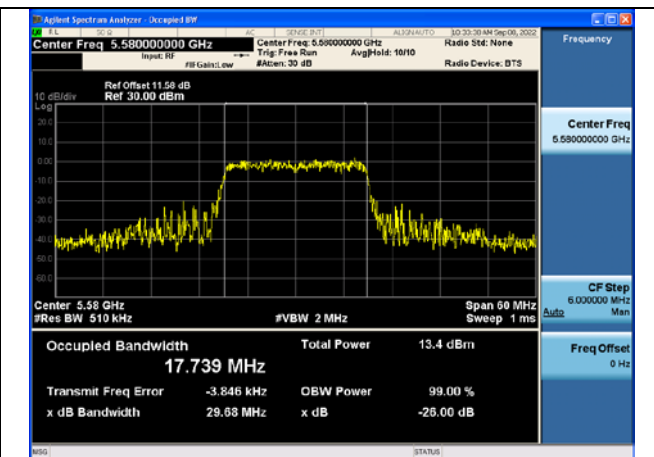
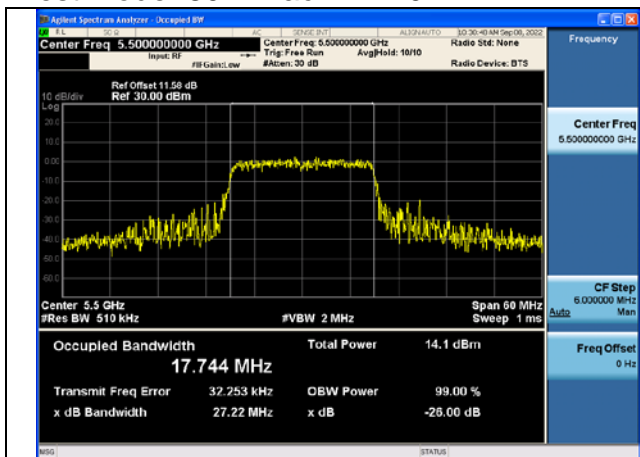
Test Mode:802.11n HT20 5500MHz Chain1



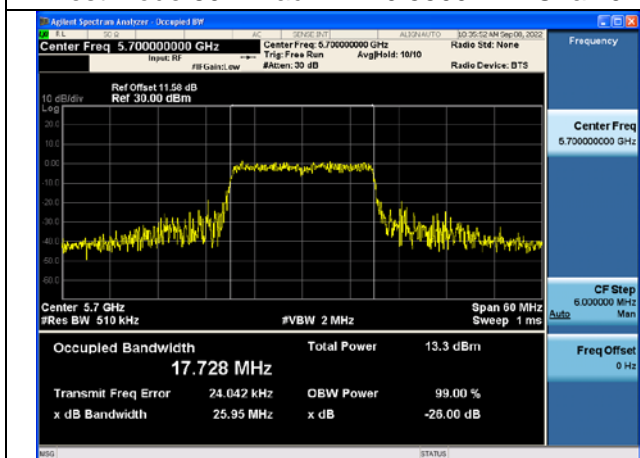
Test Mode:802.11n HT20 5580MHz Chain1

Test Mode:802.11n HT20 5700MHz Chain1

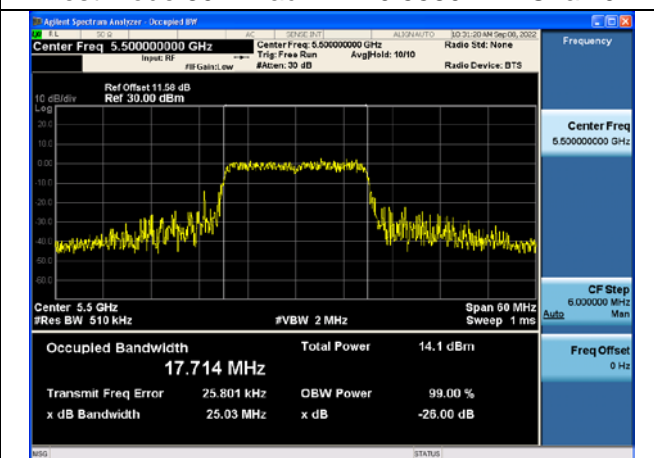
Test Mode: 802.11ac VHT20



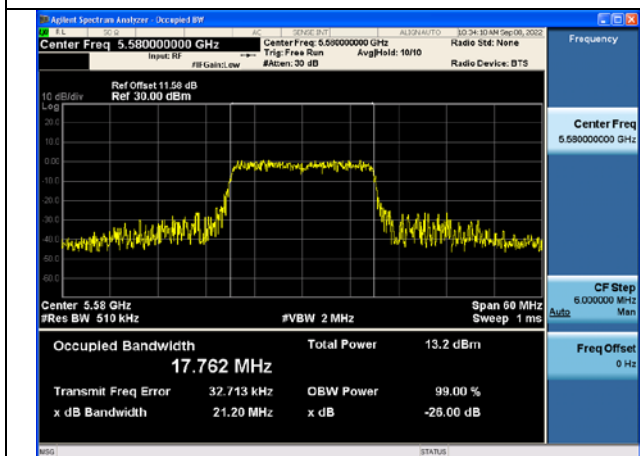
Test Mode:802.11ac VHT20 5500MHz Chain0



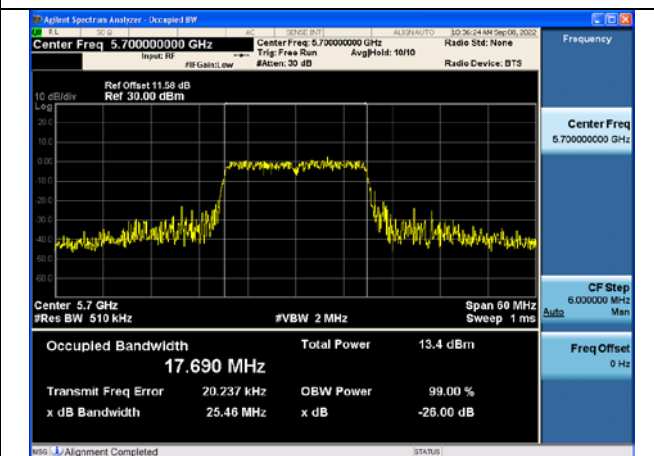
Test Mode:802.11ac VHT20 5580MHz Chain0



Test Mode:802.11ac VHT20 5700MHz Chain0



Test Mode:802.11ac VHT20 5500MHz Chain1

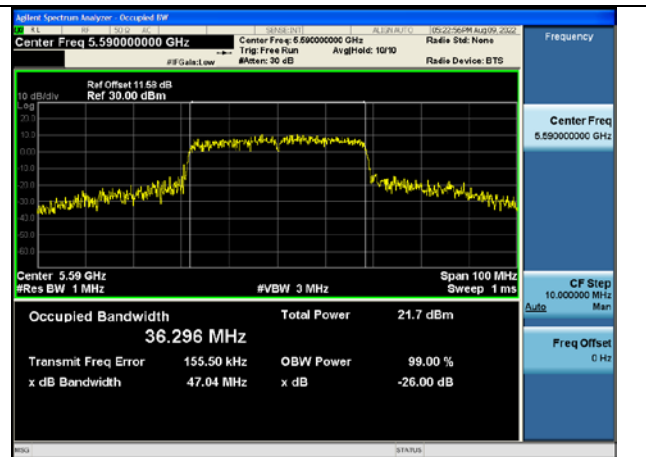
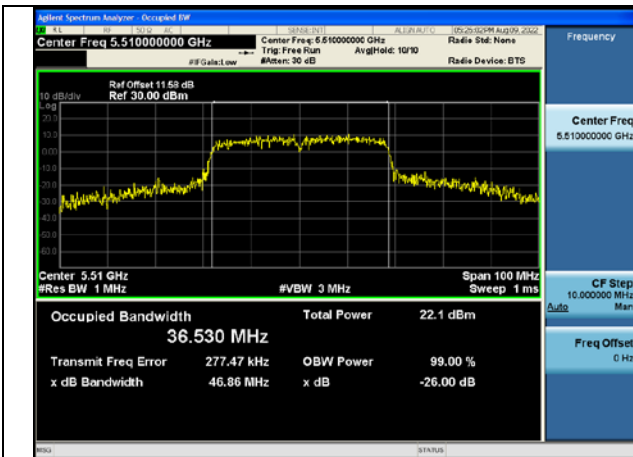


Test Mode:802.11ac VHT20 5580MHz Chain1

Test Mode:802.11ac VHT20 5700MHz Chain1

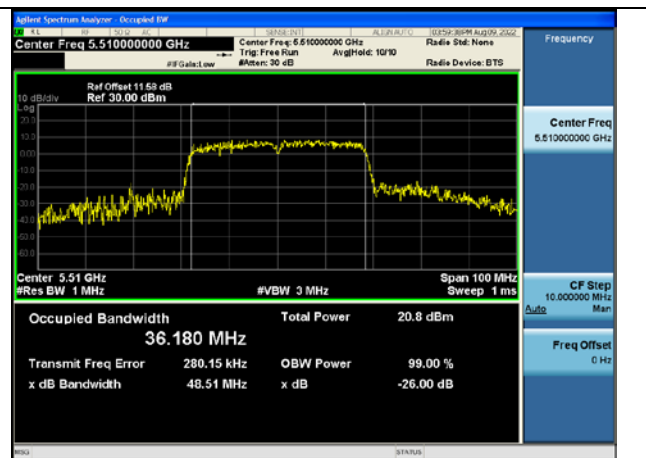
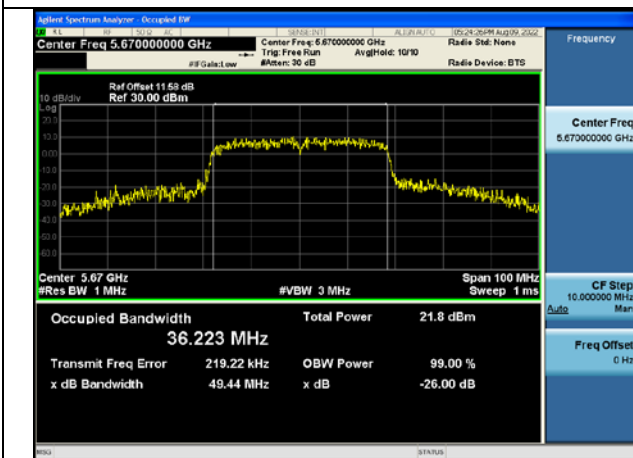


Test Mode: 802.11n HT40



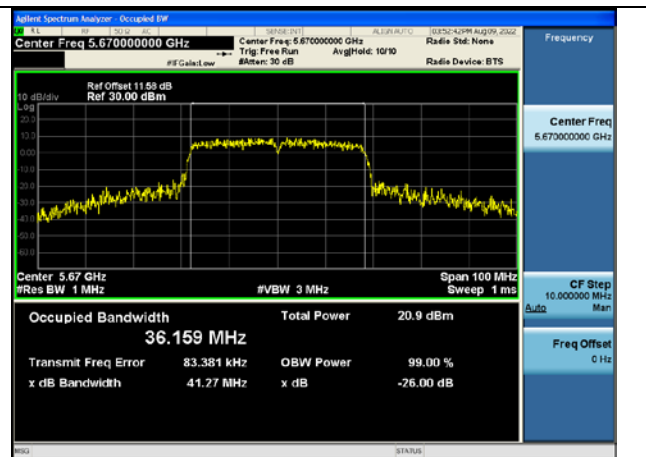
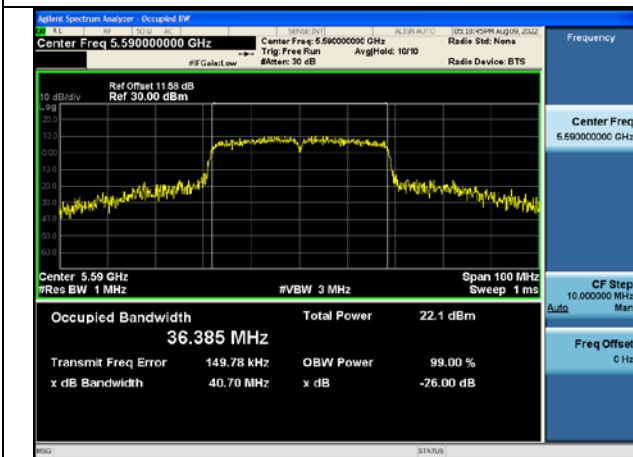
Test Mode:802.11n HT40 5510MHz Chain0

Test Mode:802.11n HT40 5590MHz Chain0



Test Mode:802.11n HT40 5670MHz Chain0

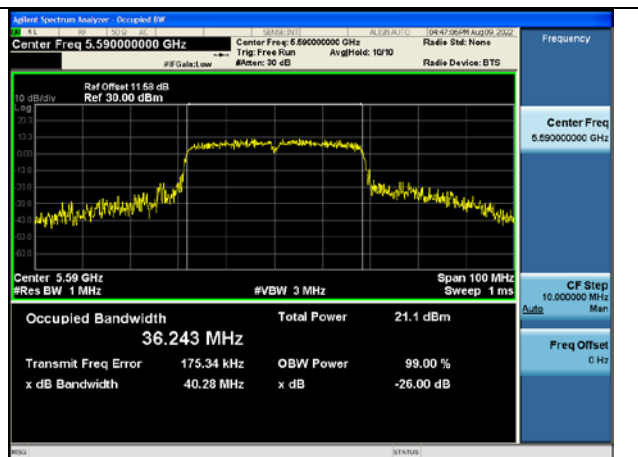
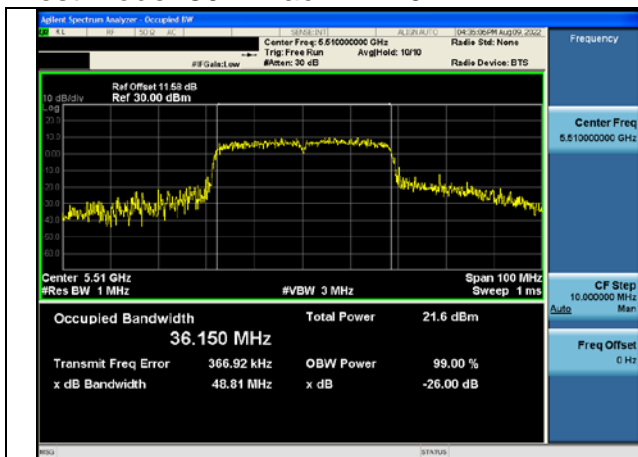
Test Mode:802.11n HT40 5510MHz Chain1



Test Mode:802.11n HT40 5590MHz Chain1

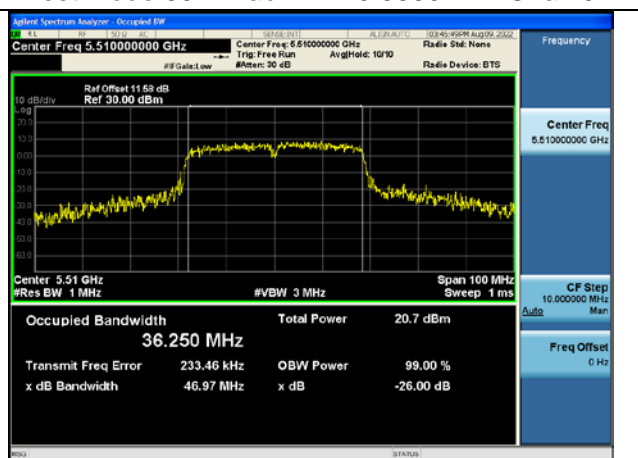
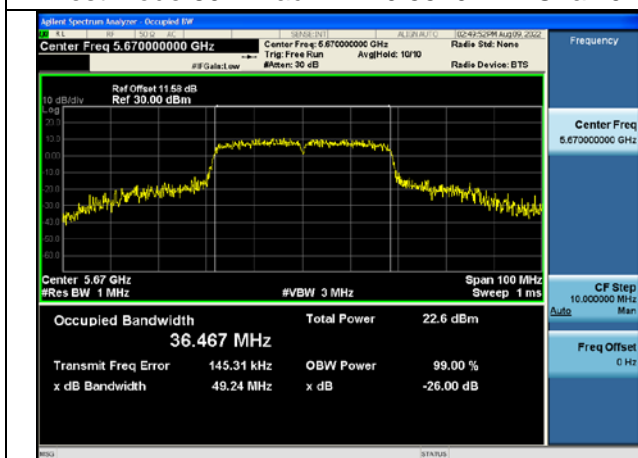
Test Mode:802.11n HT40 5670MHz Chain1

Test Mode: 802.11ac VHT40



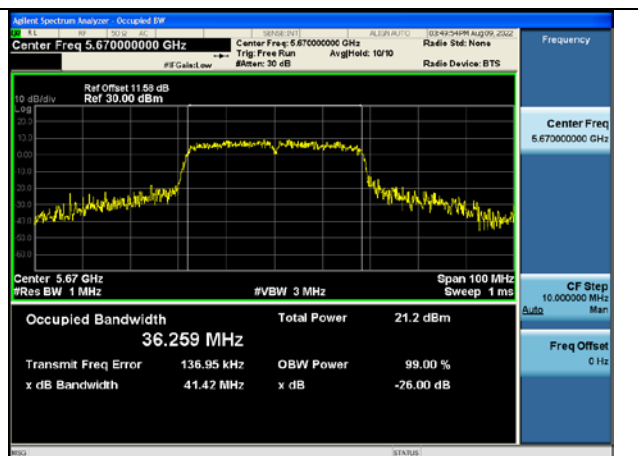
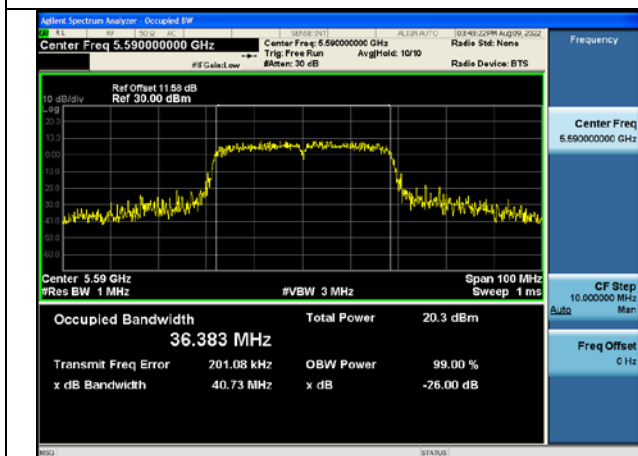
Test Mode:802.11ac VHT40 5510MHz Chain0

Test Mode:802.11ac VHT40 5590MHz Chain0



Test Mode:802.11ac VHT40 5670MHz Chain0

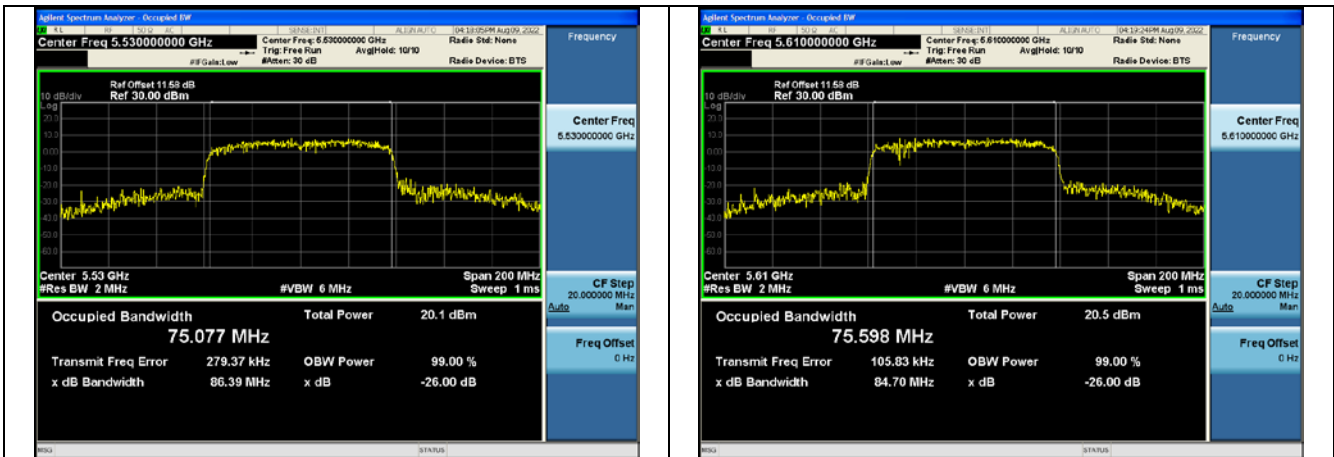
Test Mode:802.11ac VHT40 5510MHz Chain1



Test Mode:802.11ac VHT40 5590MHz Chain1

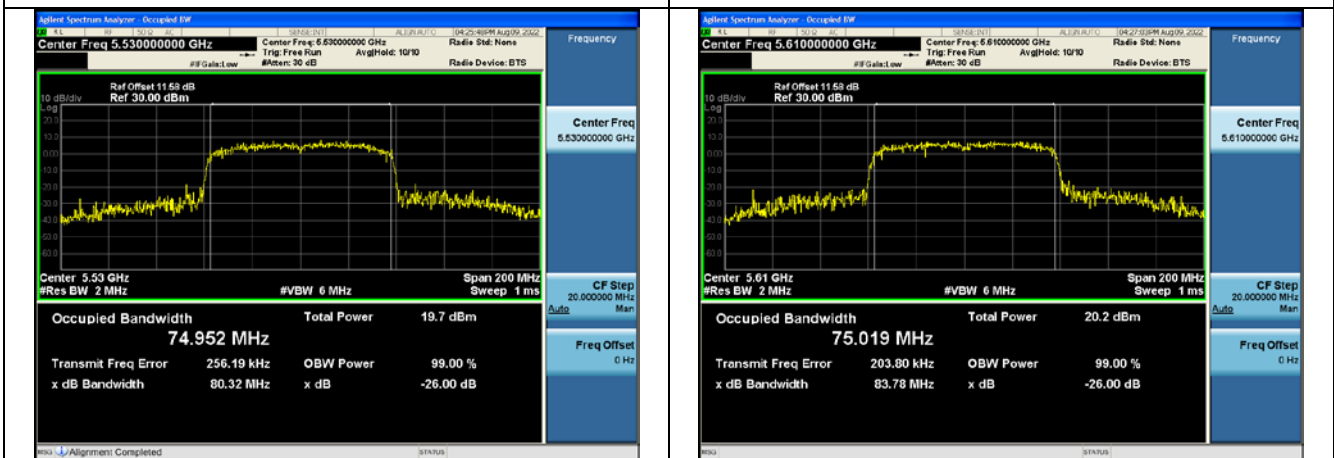
Test Mode:802.11ac VHT40 5670MHz Chain1

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5530MHz Chain0

Test Mode:802.11ac VHT80 5610MHz Chain0



Test Mode:802.11ac VHT80 5530MHz Chain1

Test Mode:802.11ac VHT80 5610MHz Chain1

**Occupied Bandwidth**

Offset 11.58dB = Attenuator + Temporary antenna connector loss + Cable loss

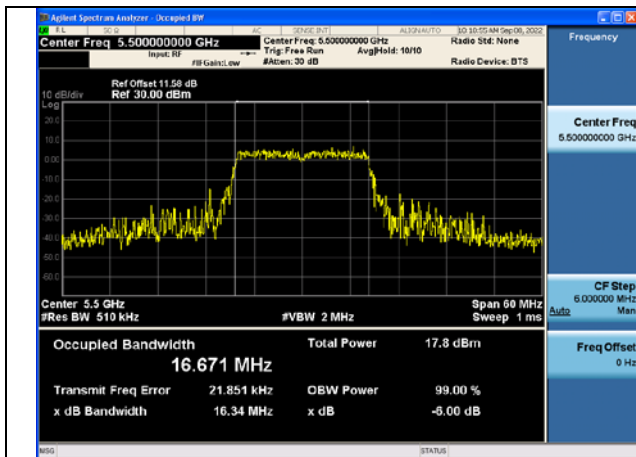
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.618	Channel No.634	Channel No.658
		5500MHz	5580MHz	5700MHz
802.11a	Chain0	16.671	16.723	16.628
802.11a	Chain1	16.673	16.722	16.668
802.11n HT20	Chain0	17.788	17.700	17.725
802.11n HT20	Chain1	17.699	17.692	17.798
802.11ac VHT20	Chain0	17.753	17.740	17.694
802.11ac VHT20	Chain1	17.718	17.704	17.682



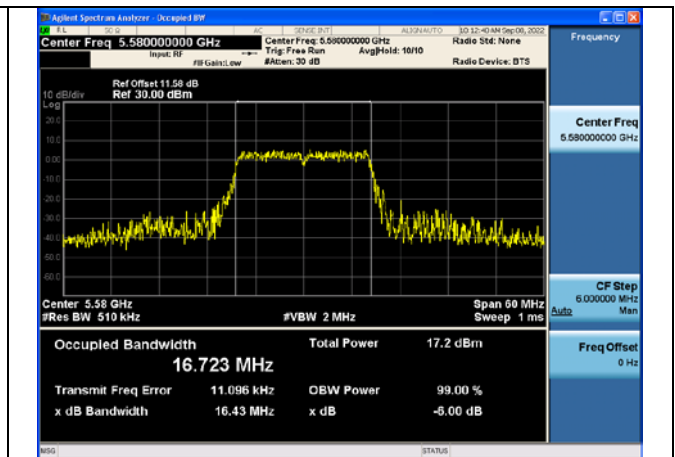
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.620	Channel No.636	Channel No.652
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	36.515	36.331	36.426
802.11n HT40	Chain1	36.398	36.310	36.356
802.11ac VHT40	Chain0	36.452	36.365	36.523
802.11ac VHT40	Chain1	36.454	36.345	36.405

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.624	---	Channel No.640
		5530MHz	---	5610MHz
802.11ac VHT80	Chain0	74.960	---	75.089
802.11ac VHT80	Chain1	75.354	---	75.190

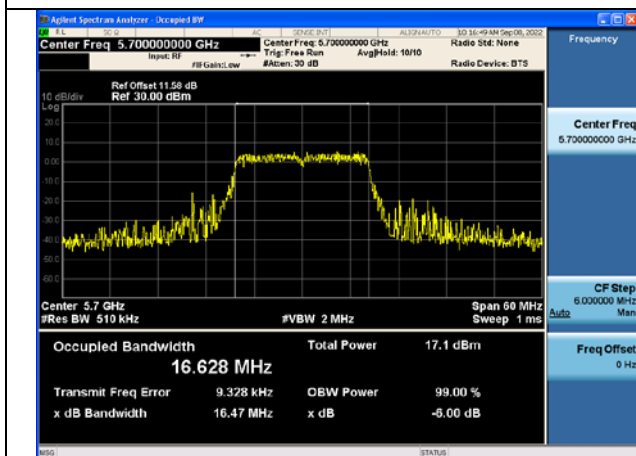
**Test Mode: 802.11a**



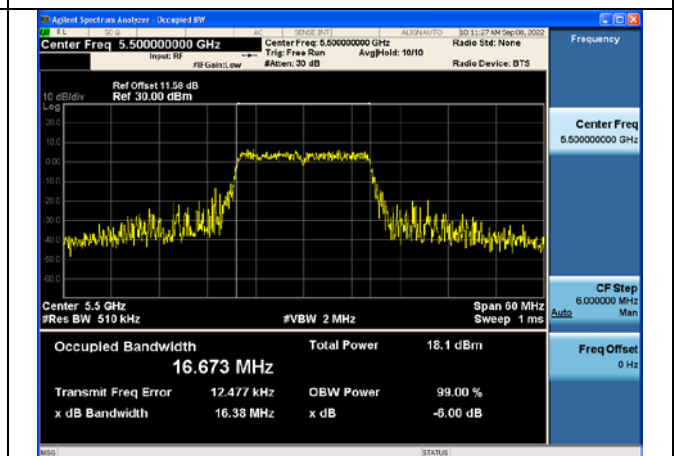
Test Mode:802.11a 5500MHz Chain0



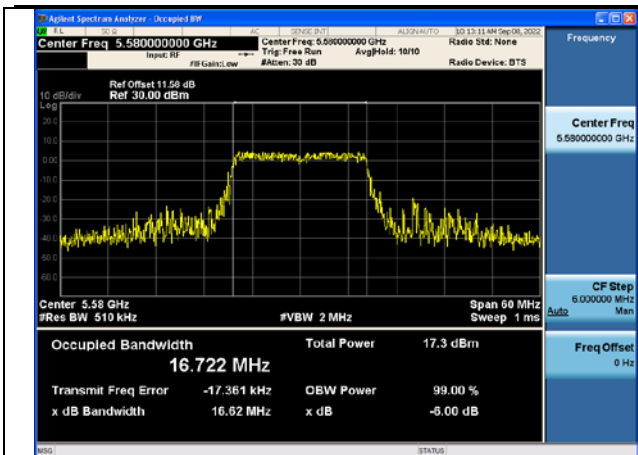
Test Mode:802.11a 5580MHz Chain0



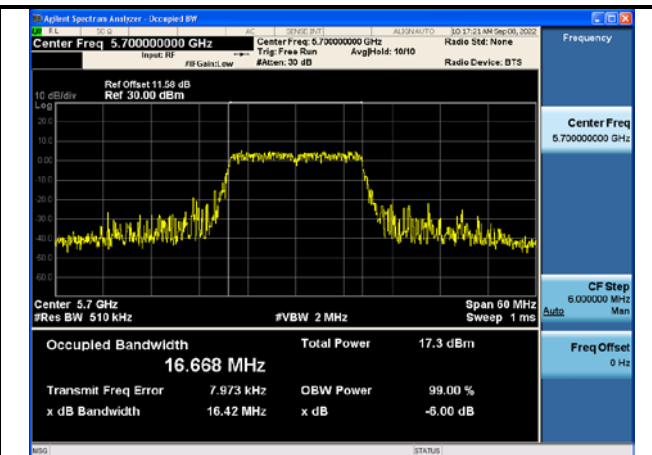
Test Mode:802.11a 5700MHz Chain0



Test Mode:802.11a 5500MHz Chain1

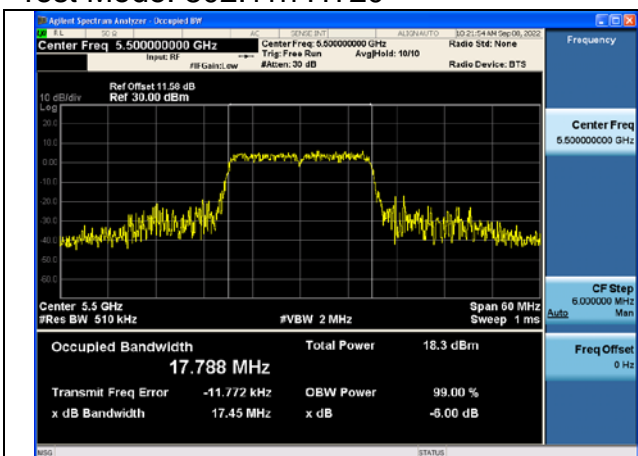


Test Mode:802.11a 5580MHz Chain1

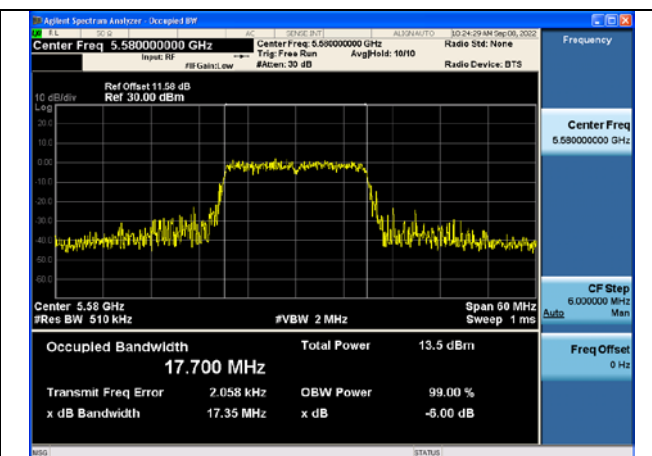


Test Mode:802.11a 5700MHz Chain1

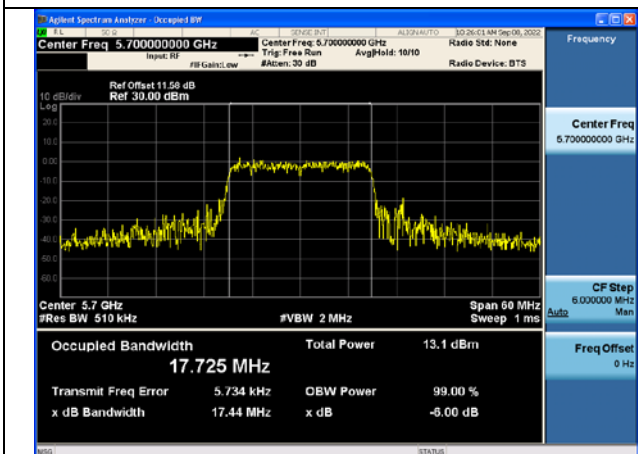
Test Mode: 802.11n HT20



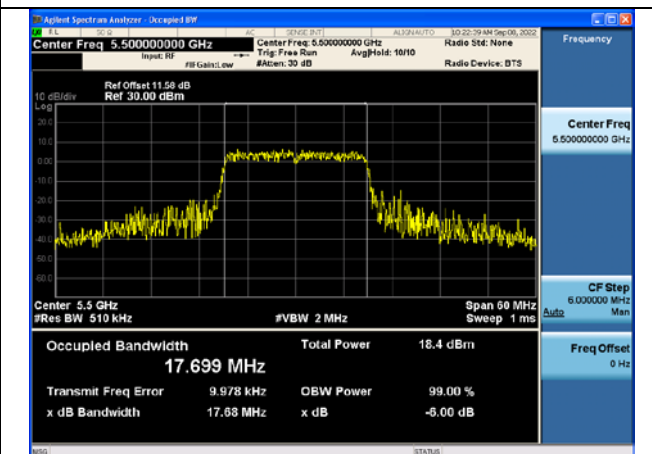
Test Mode:802.11n HT20 5500MHz Chain0



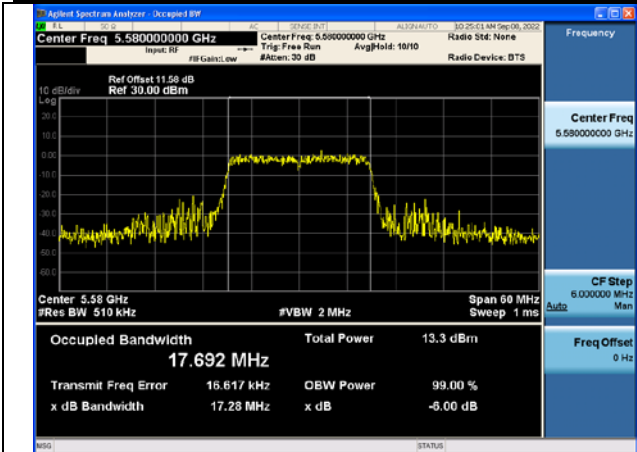
Test Mode:802.11n HT20 5580MHz Chain0



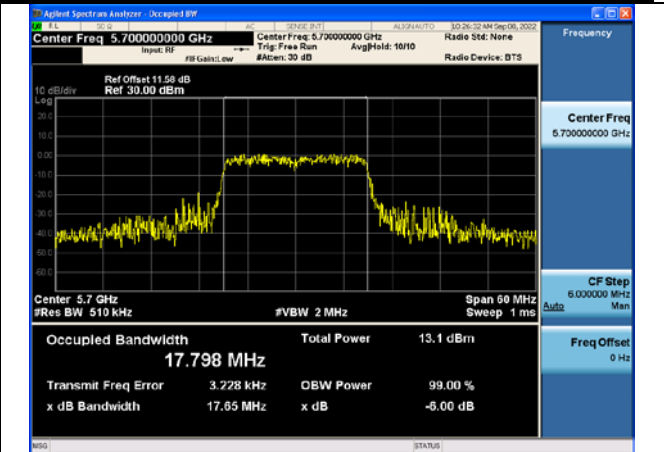
Test Mode:802.11n HT20 5700MHz Chain0



Test Mode:802.11n HT20 5500MHz Chain1

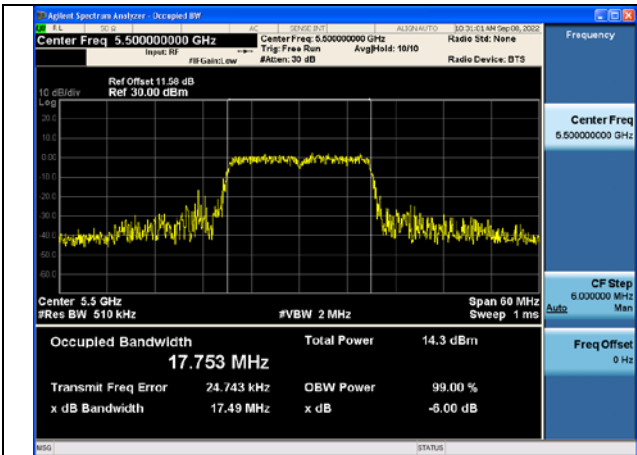


Test Mode:802.11n HT20 5580MHz Chain1

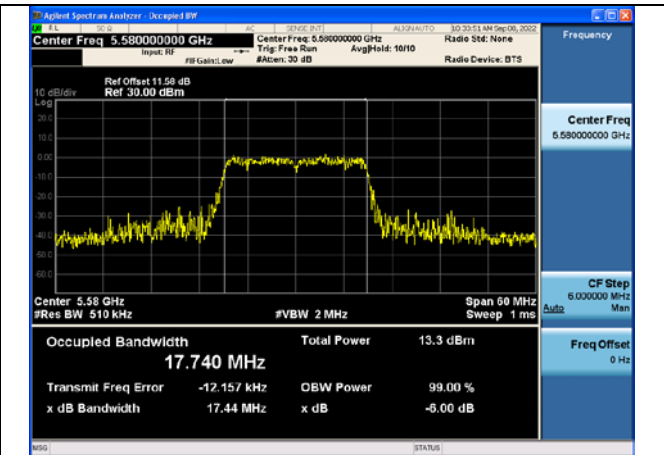


Test Mode:802.11n HT20 5700MHz Chain1

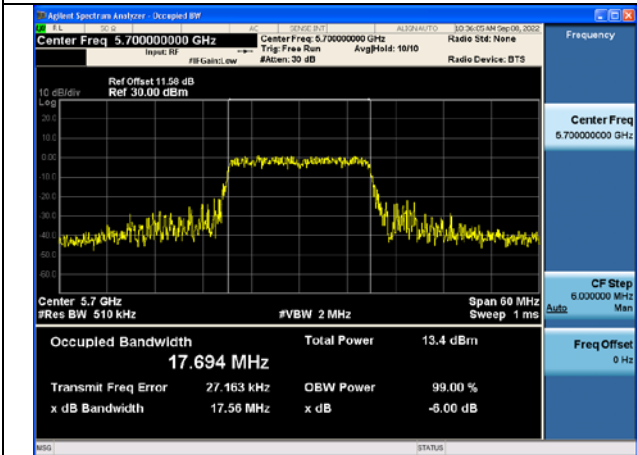
Test Mode: 802.11ac VHT20



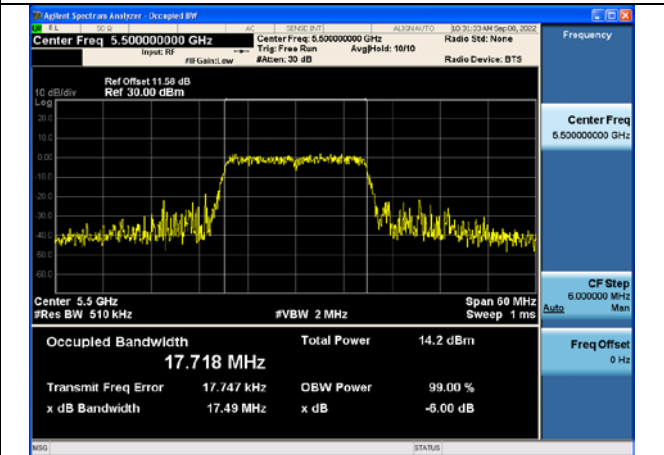
Test Mode:802.11ac VHT20 5500MHz Chain0



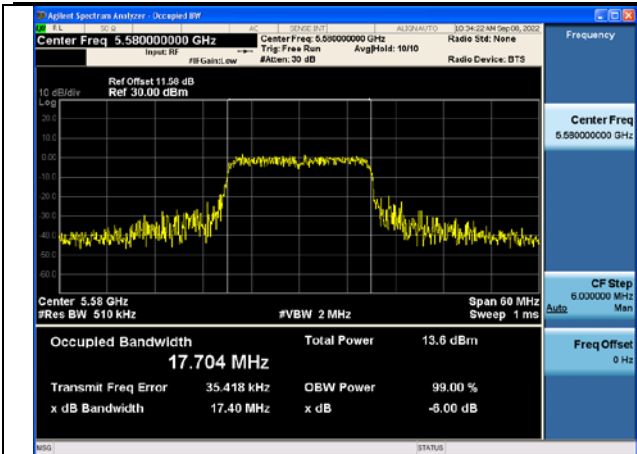
Test Mode:802.11ac VHT20 5580MHz Chain0



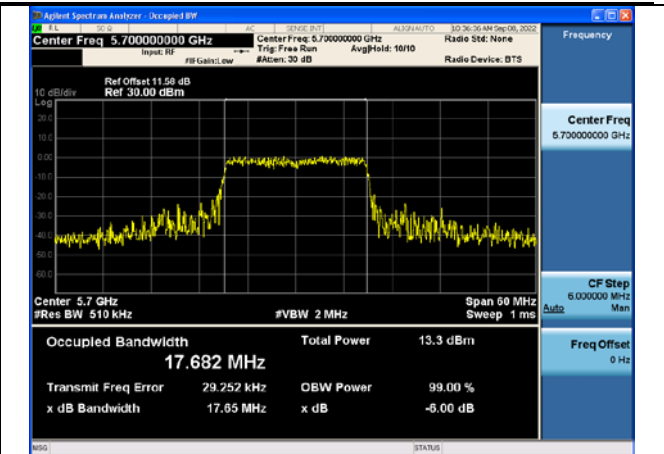
Test Mode:802.11ac VHT20 5700MHz Chain0



Test Mode:802.11ac VHT20 5500MHz Chain1

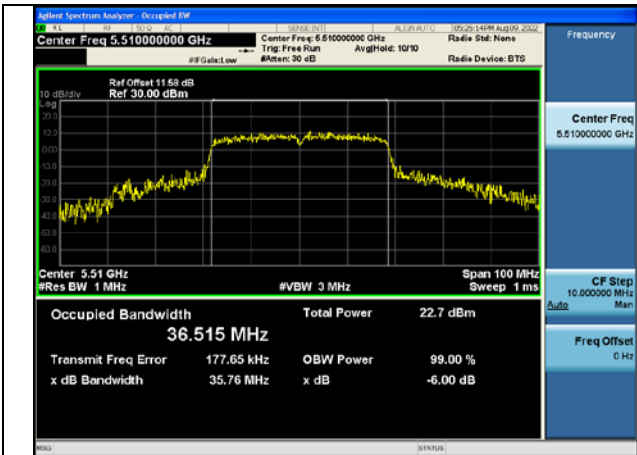


Test Mode:802.11ac VHT20 5580MHz Chain1

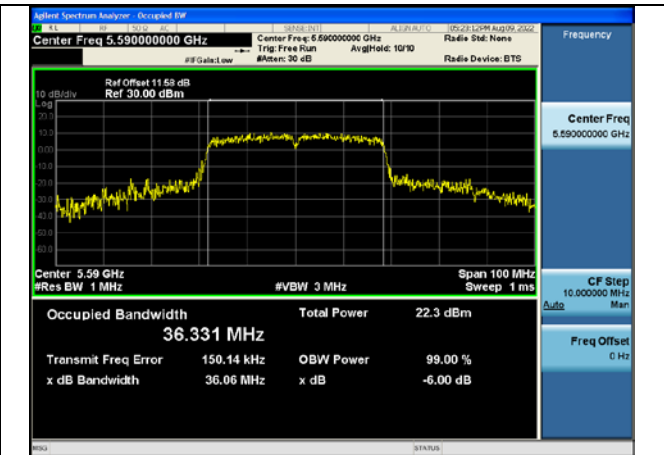


Test Mode:802.11ac VHT20 5700MHz Chain1

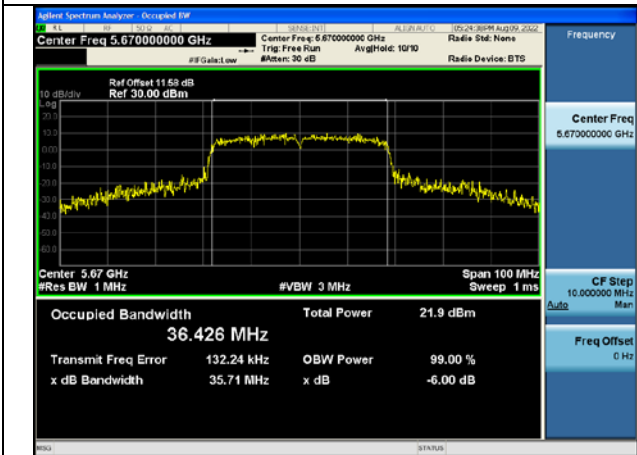
Test Mode: 802.11n HT40



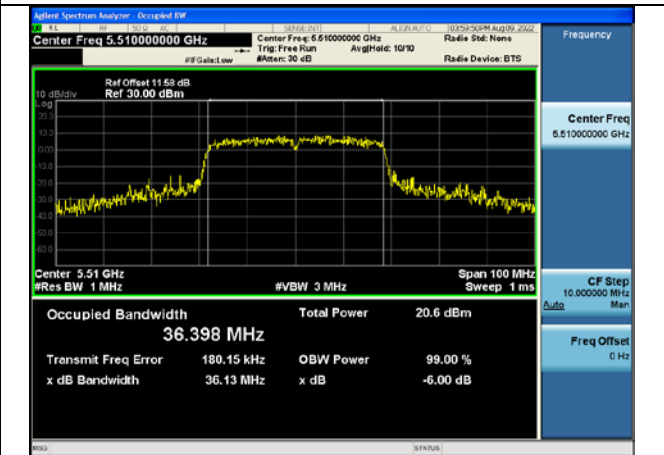
Test Mode:802.11n HT40 5510MHz Chain0



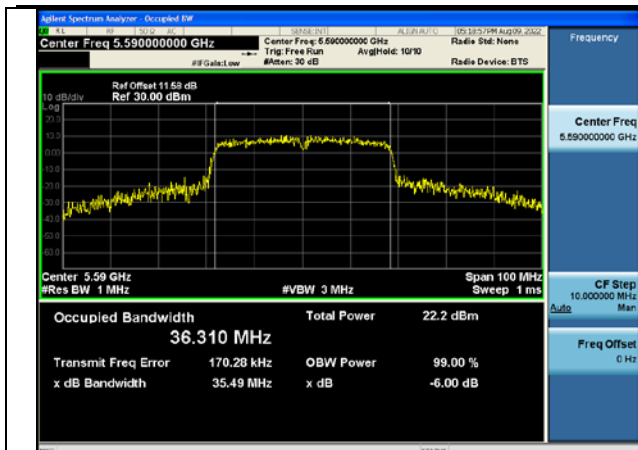
Test Mode:802.11n HT40 5590MHz Chain0



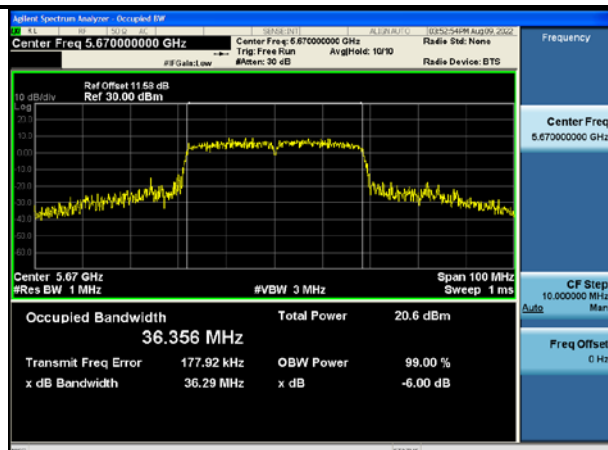
Test Mode:802.11n HT40 5670MHz Chain0



Test Mode:802.11n HT40 5510MHz Chain1

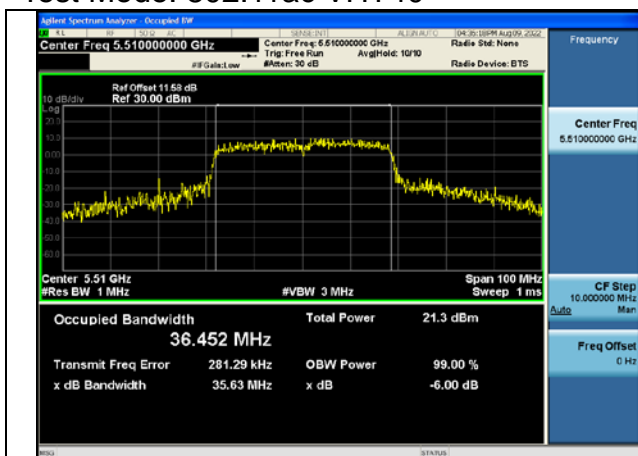


Test Mode:802.11n HT40 5590MHz Chain1

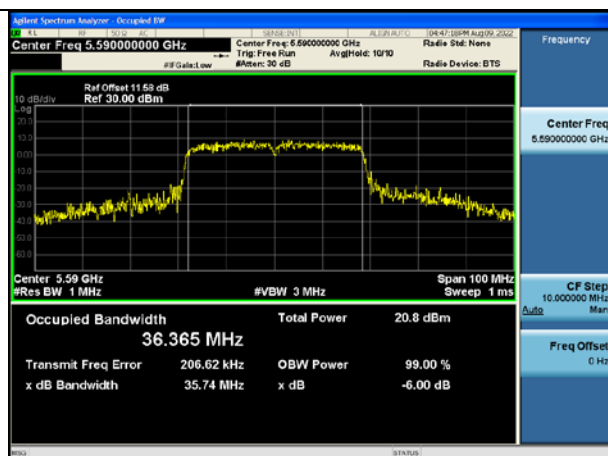


Test Mode:802.11n HT40 5670MHz Chain1

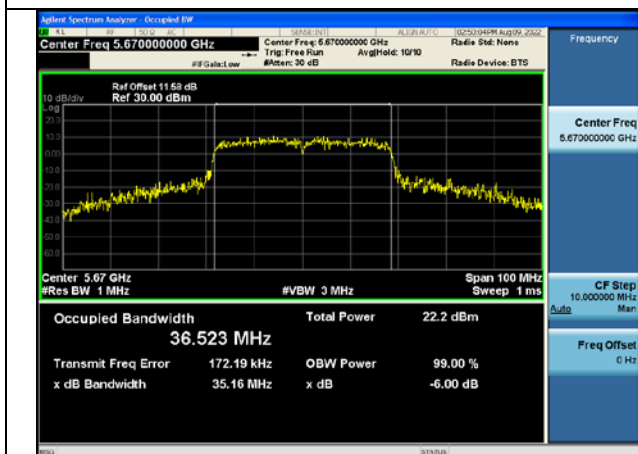
Test Mode: 802.11ac VHT40



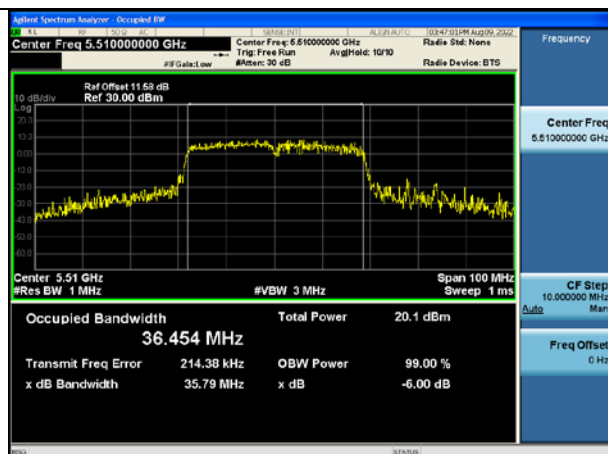
Test Mode:802.11ac VHT40 5510MHz Chain0



Test Mode:802.11ac VHT40 5590MHz Chain0



Test Mode:802.11ac VHT40 5670MHz Chain0

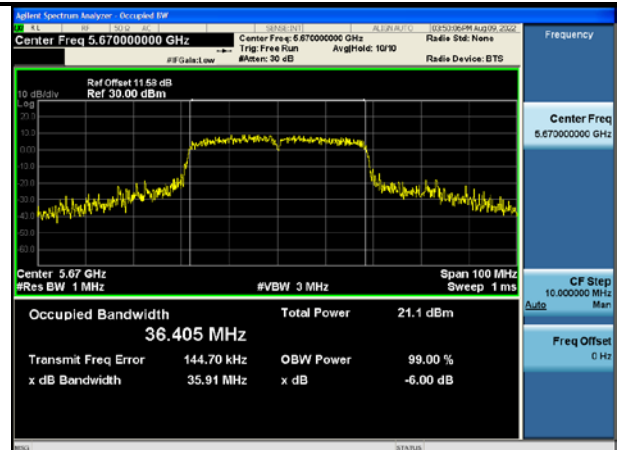


Test Mode:802.11ac VHT40 5510MHz Chain1



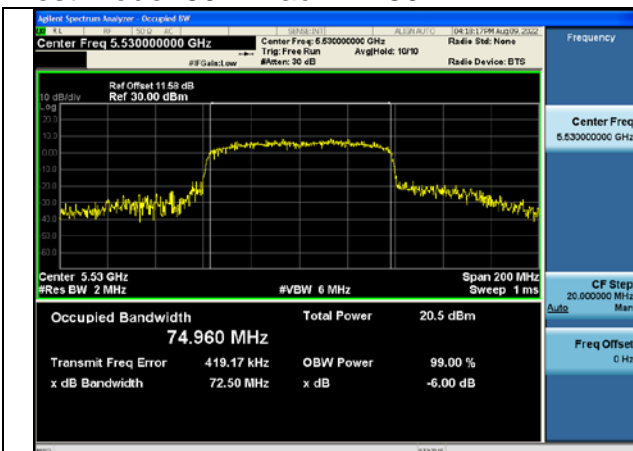


Test Mode:802.11ac VHT40 5590MHz Chain1

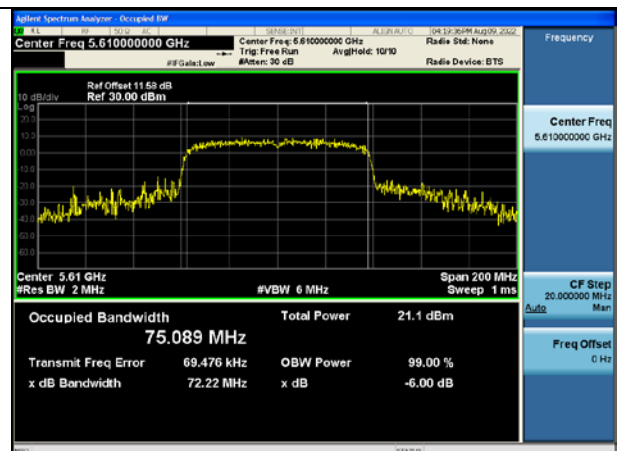


Test Mode:802.11ac VHT40 5670MHz Chain1

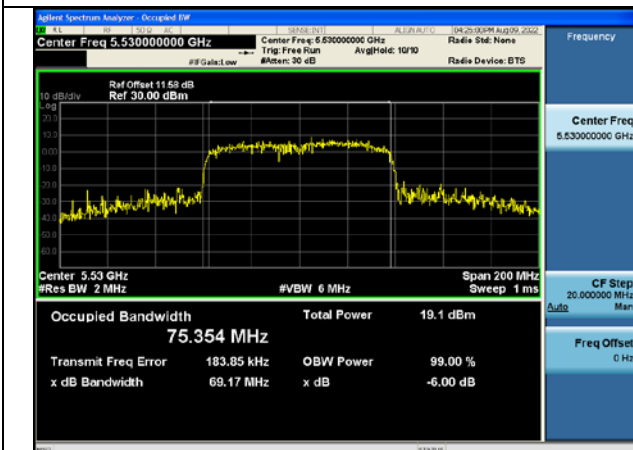
Test Mode: 802.11ac VHT80



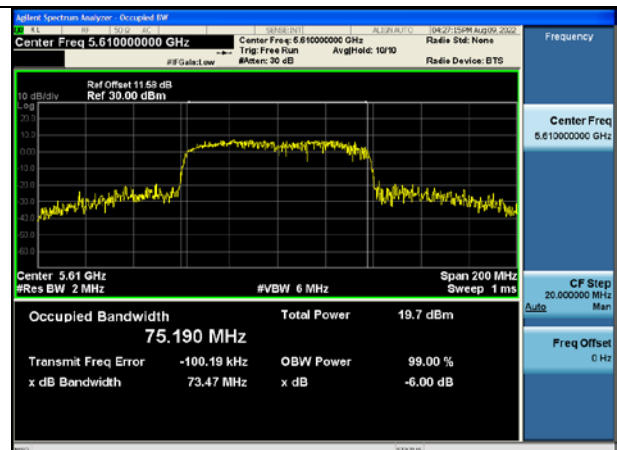
Test Mode:802.11ac VHT80 5530MHz Chain0



Test Mode:802.11ac VHT80 5610MHz Chain0



Test Mode:802.11ac VHT80 5530MHz Chain1



Test Mode:802.11ac VHT80 5610MHz Chain1

## Transmitter Power Spectral Density

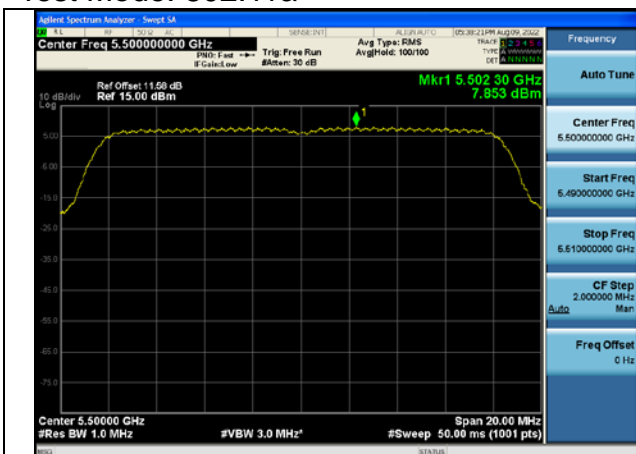
Offset 11.58dB = Attenuator + Temporary antenna connector loss + Cable loss

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	0.52	8.373	0.52	8.407	0.52	9.093
802.11a	Chain1	0.52	7.366	0.52	7.322	0.52	7.073
802.11n HT20	Chain0	0.60	7.036	0.60	7.410	0.60	8.189
802.11n HT20	Chain1	0.60	5.981	0.60	5.777	0.60	5.479
802.11n HT20	MIMO	0.60	9.551	0.60	9.680	0.60	10.052
802.11ac VHT20	Chain0	0.58	7.116	0.58	7.341	0.58	8.243
802.11ac VHT20	Chain1	0.58	5.332	0.58	5.606	0.58	5.362
802.11ac VHT20	MIMO	0.58	9.325	0.58	9.570	0.58	10.047

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	0.93	5.133	0.93	4.338	0.93	4.258
802.11n HT40	Chain1	0.93	2.844	0.93	2.550	0.93	3.409
802.11n HT40	MIMO	0.93	7.148	0.93	6.546	0.93	6.865
802.11ac VHT40	Chain0	0.94	4.987	0.94	4.066	0.94	4.492
802.11ac VHT40	Chain1	0.94	2.666	0.94	2.417	0.94	3.018
802.11ac VHT40	MIMO	0.94	6.990	0.94	6.330	0.94	6.828

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	1.40	0.963	---	---	1.40	2.363
802.11ac VHT80	Chain1	1.40	-1.048	---	---	1.40	0.352
802.11ac VHT80	MIMO	1.40	3.083	---	---	1.40	4.483

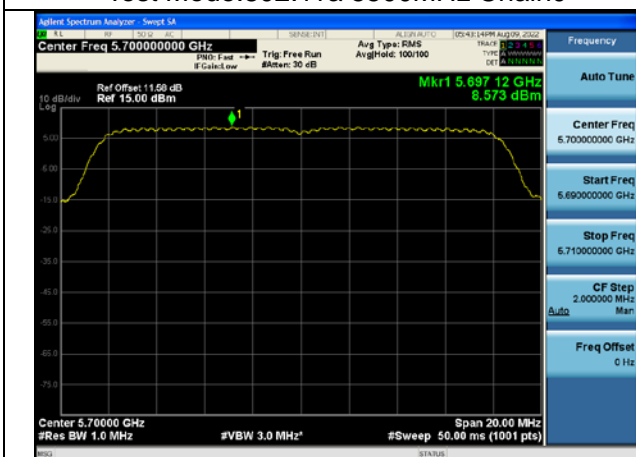
Test Mode: 802.11a



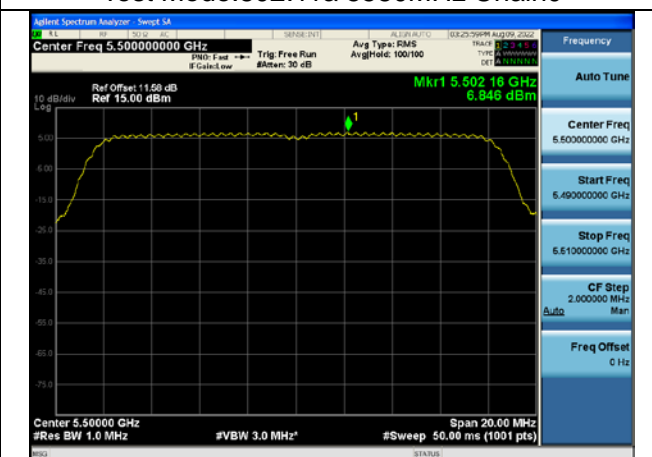
Test Mode:802.11a 5500MHz Chain0



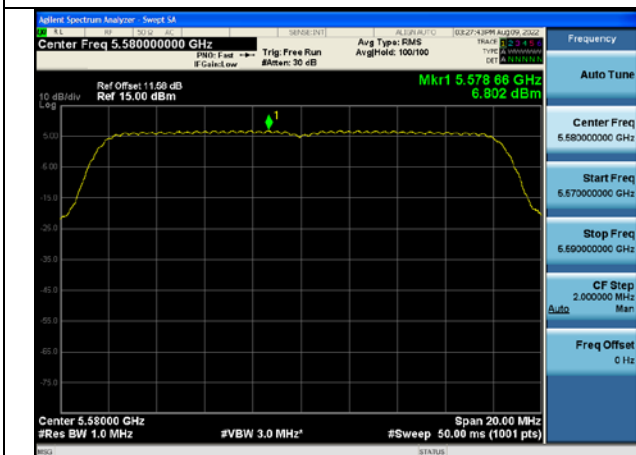
Test Mode:802.11a 5580MHz Chain0



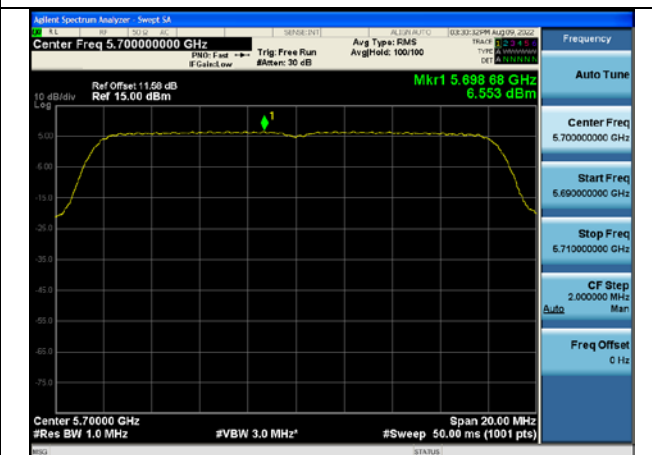
Test Mode:802.11a 5700MHz Chain0



Test Mode:802.11a 5500MHz Chain1



Test Mode:802.11a 5580MHz Chain1



Test Mode:802.11a 5700MHz Chain1