

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5500	99.54%	0
802.11n HT20	5500	99.44%	0
802.11ac VHT20	5500	99.45%	0
802.11n HT40	5510	98.87%	0
802.11ac VHT40	5510	98.86%	0
802.11ac VHT80	5530	97.94%	0.09

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	11.57	9.27
802.11a	NA	5580	Chain0	11.77	9.47
802.11a	NA	5700	Chain0	11.71	9.41
802.11ac VHT20	NA	5500	Chain0	11.20	8.90
802.11ac VHT20	NA	5580	Chain0	11.66	9.36
802.11ac VHT20	NA	5700	Chain0	11.54	9.24
802.11ac VHT40	NA	5510	Chain0	11.59	9.29
802.11ac VHT40	NA	5590	Chain0	11.44	9.14
802.11ac VHT40	NA	5670	Chain0	11.86	9.56
802.11ac VHT80	NA	5530	Chain0	11.53	9.23
802.11ac VHT80	NA	5610	Chain0	11.34	9.04
802.11n HT20	NA	5500	Chain0	11.27	8.97
802.11n HT20	NA	5580	Chain0	11.67	9.37
802.11n HT20	NA	5700	Chain0	11.53	9.23
802.11n HT40	NA	5510	Chain0	11.77	9.47
802.11n HT40	NA	5590	Chain0	11.47	9.17
802.11n HT40	NA	5670	Chain0	11.88	9.58

Emission Bandwidth

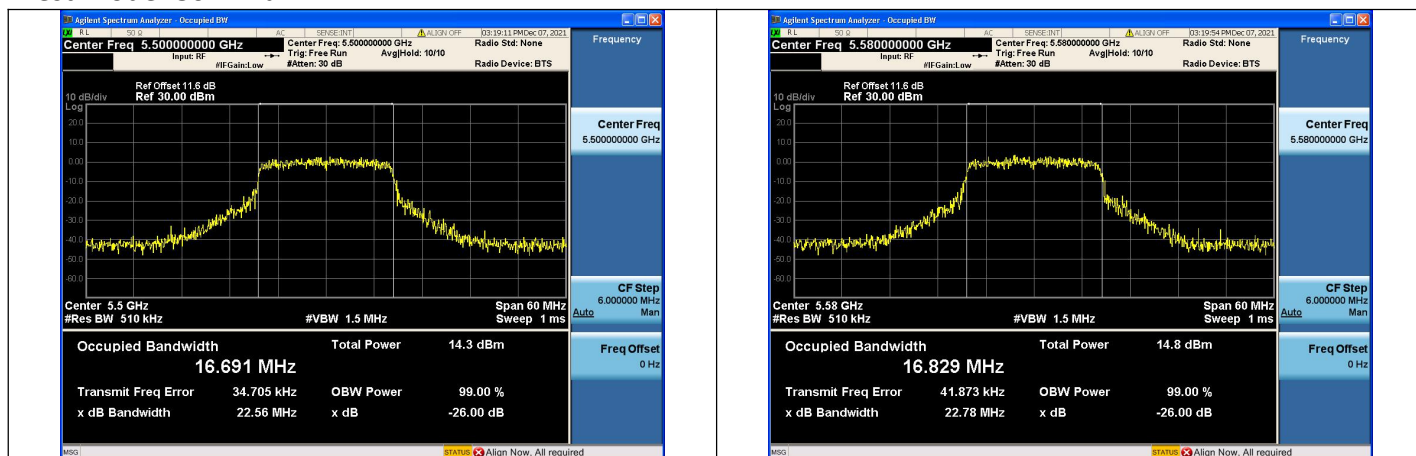
Offset 11.6dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5500MHz	5580MHz	5700MHz
802.11a	Chain0	22.56	22.78	23.85
802.11n HT20	Chain0	23.77	24.44	23.23
802.11ac VHT20	Chain0	23.55	23.29	22.19

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	41.23	40.99	41.22
802.11ac VHT40	Chain0	39.76	40.77	39.83

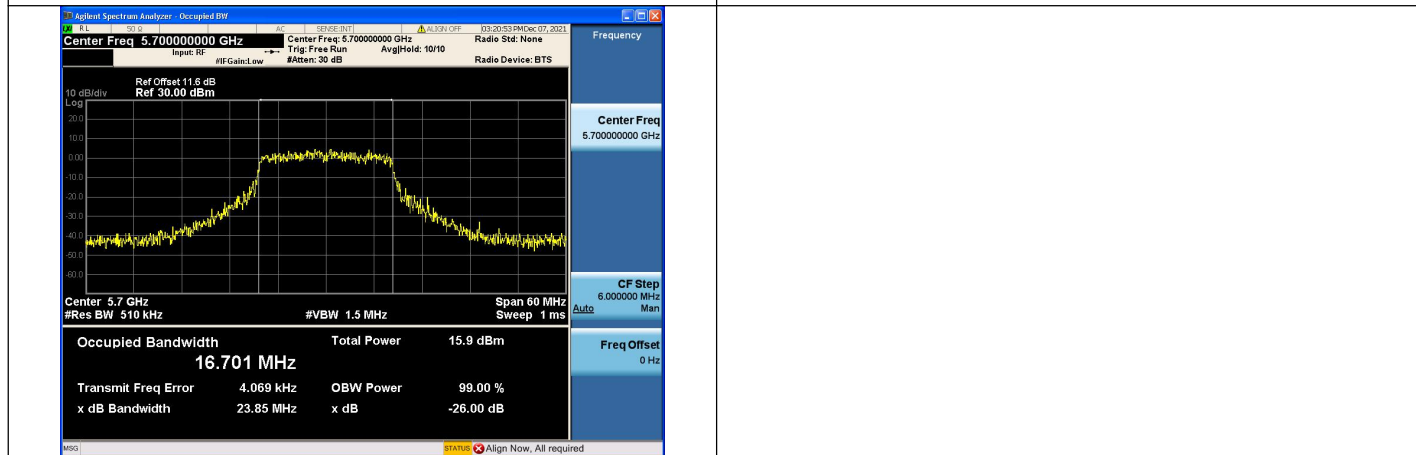
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5530MHz	---	5610MHz
802.11ac VHT80	Chain0	82.28	---	82.51

Test Mode: 802.11a



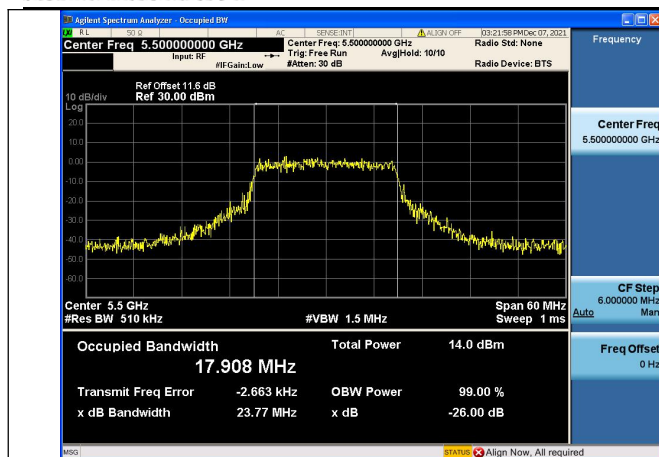
Test Mode: 802.11a 5500MHz Chain0

Test Mode: 802.11a 5580MHz Chain0

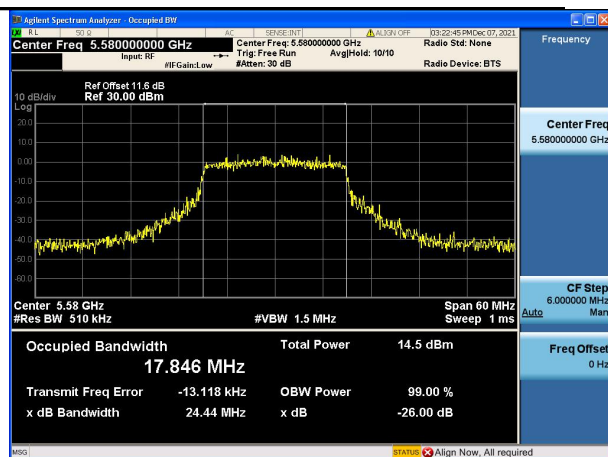


Test Mode: 802.11a 5700MHz Chain0

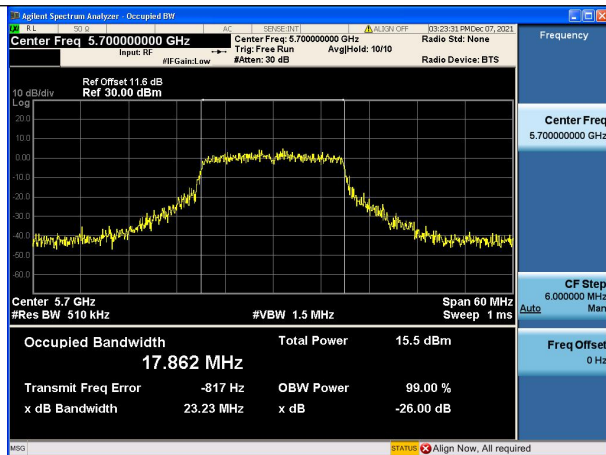
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5500MHz Chain0

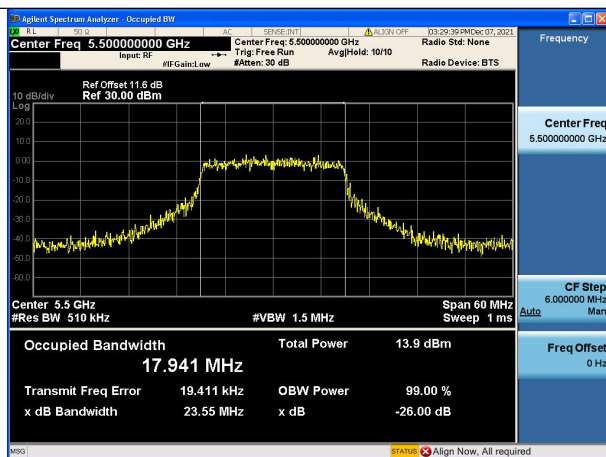


Test Mode:802.11n HT20 5580MHz Chain0

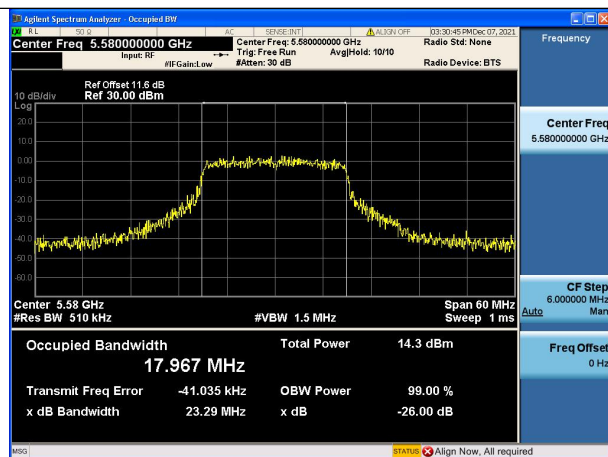


Test Mode:802.11n HT20 5700MHz Chain0

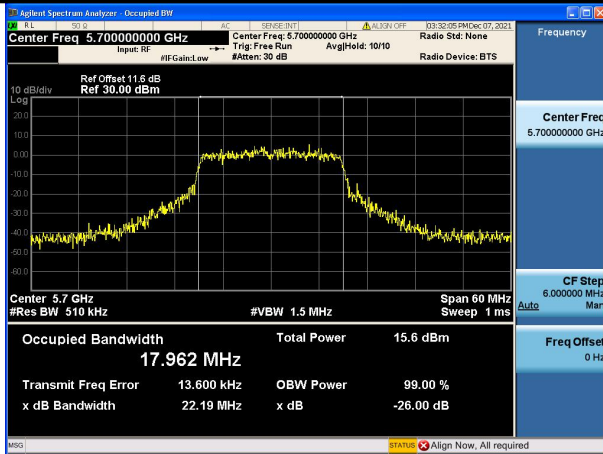
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5500MHz Chain0

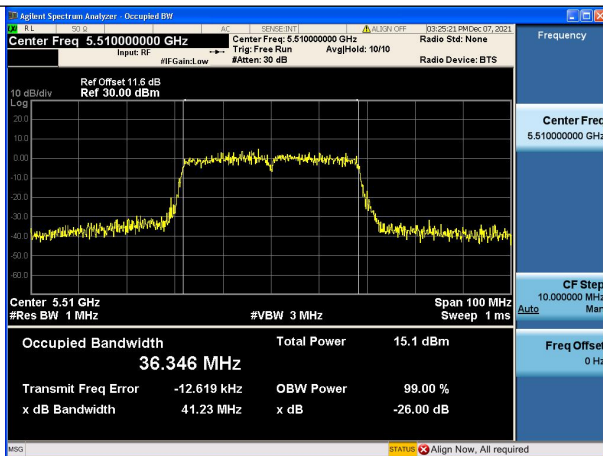


Test Mode:802.11ac VHT20 5580MHz Chain0

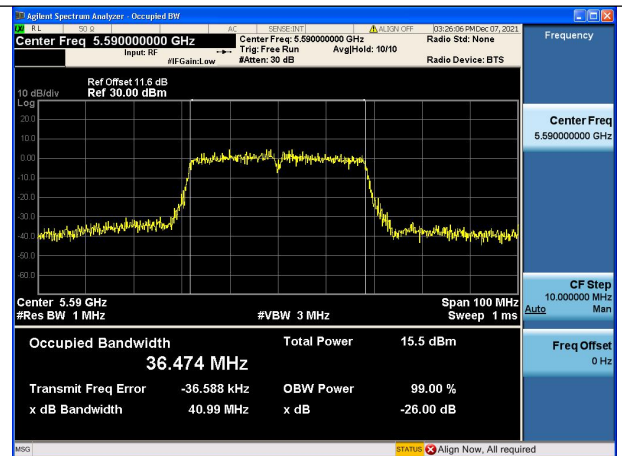


Test Mode:802.11ac VHT20 5700MHz Chain0

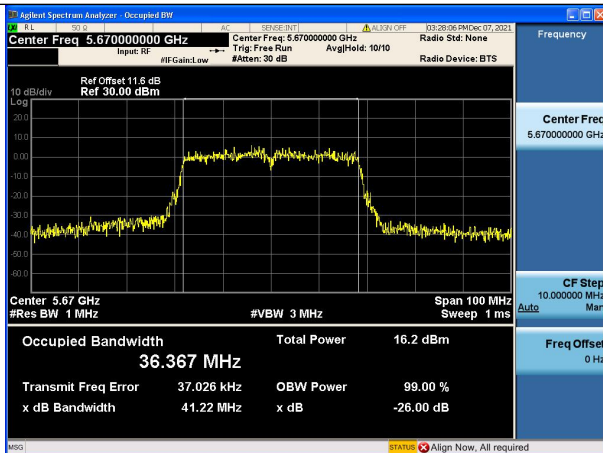
Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5510MHz Chain0

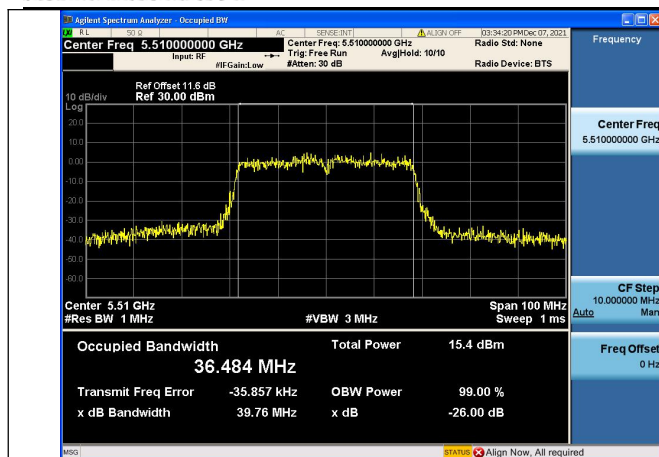


Test Mode:802.11n HT40 5590MHz Chain0

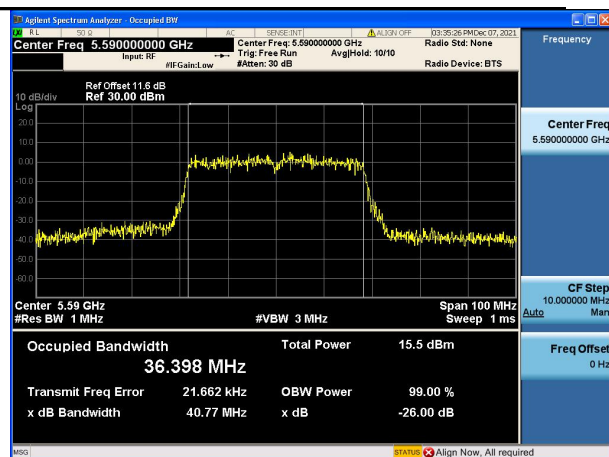


Test Mode:802.11n HT40 5670MHz Chain0

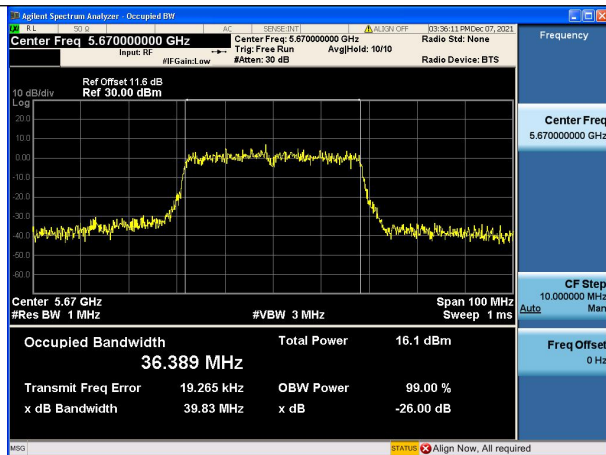
Test Mode: 802.11ac VHT40



Test Mode:802.11ac VHT40 5510MHz Chain0

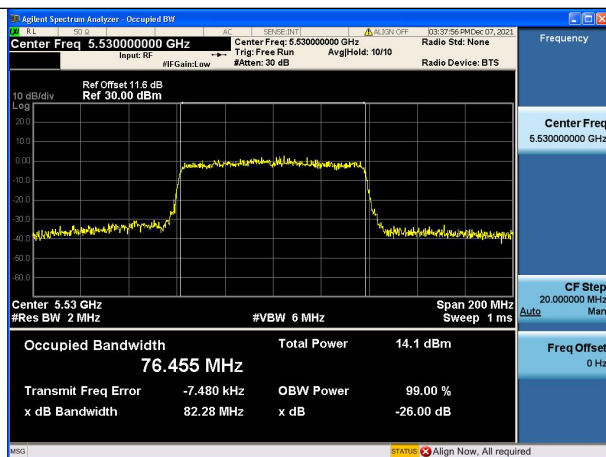


Test Mode:802.11ac VHT40 5590MHz Chain0

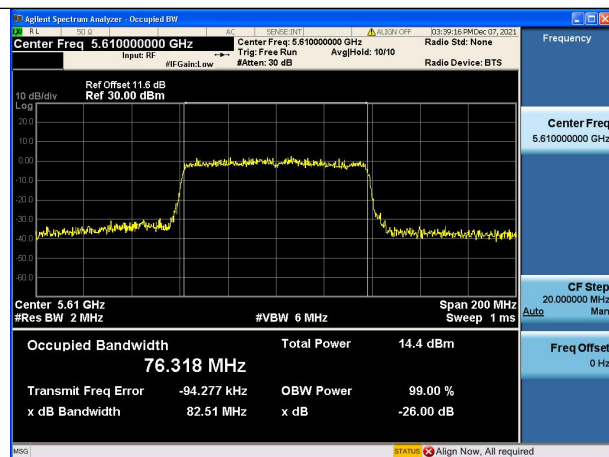


Test Mode:802.11ac VHT40 5670MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5530MHz Chain0



Test Mode:802.11ac VHT80 5610MHz Chain0

Occupied Bandwidth

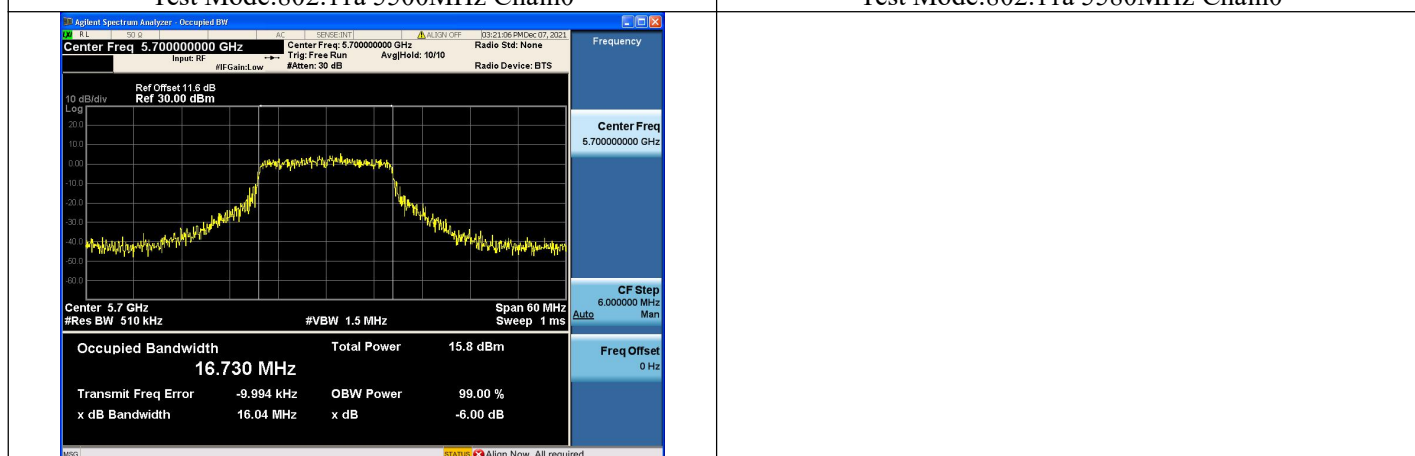
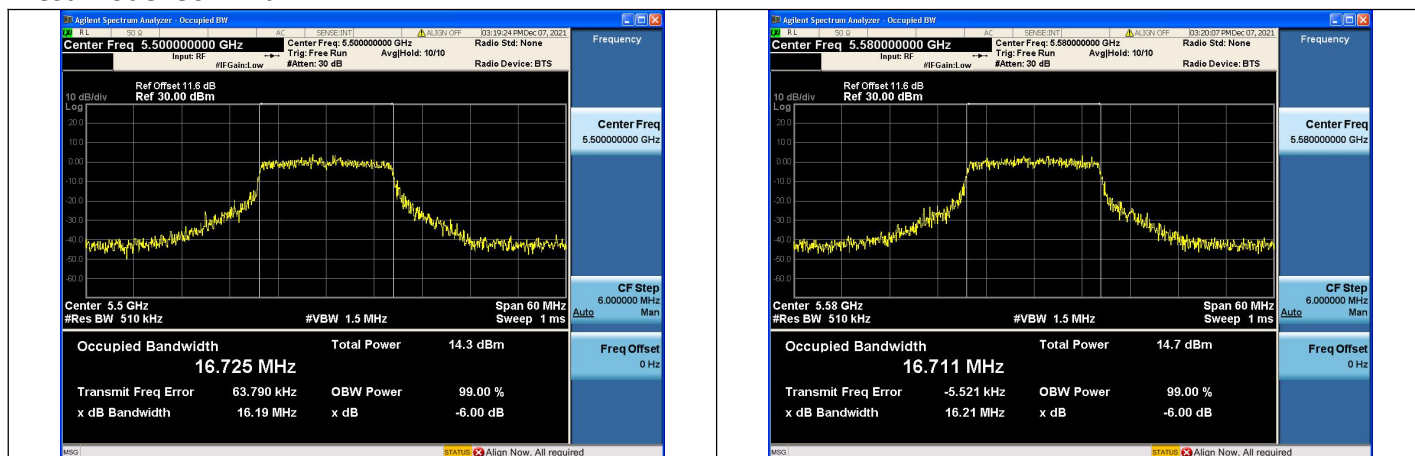
Offset 11.6dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.0 5500MHz	Channel No.1 5580MHz	Channel No.2 5700MHz
802.11a	Chain0	16.725	16.711	16.730
802.11n HT20	Chain0	17.968	17.924	17.912
802.11ac VHT20	Chain0	17.883	17.969	18.045

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	36.534	36.452	36.465
802.11ac VHT40	Chain0	36.439	36.559	36.479

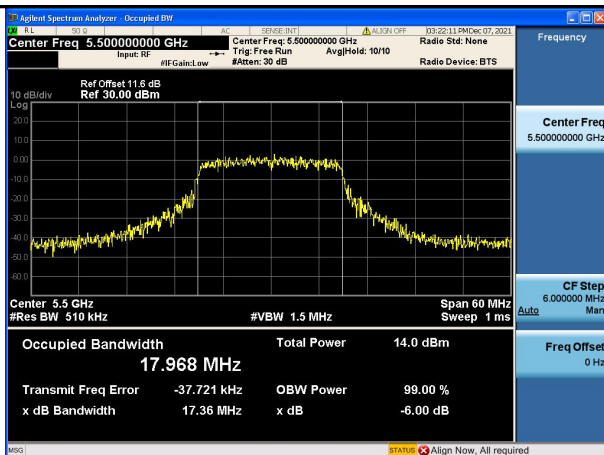
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5530MHz	---	5610MHz
802.11ac VHT80	Chain0	76.356	---	76.352

Test Mode: 802.11a

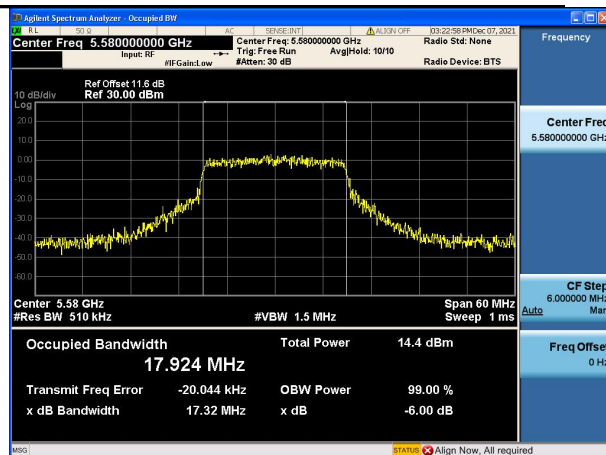


Test Mode: 802.11n HT20

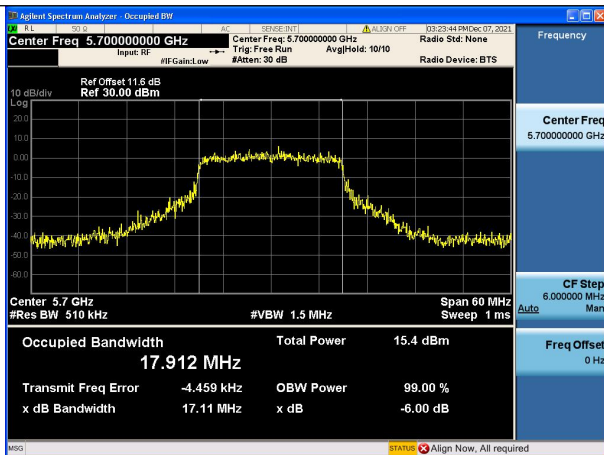
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5500MHz Chain0

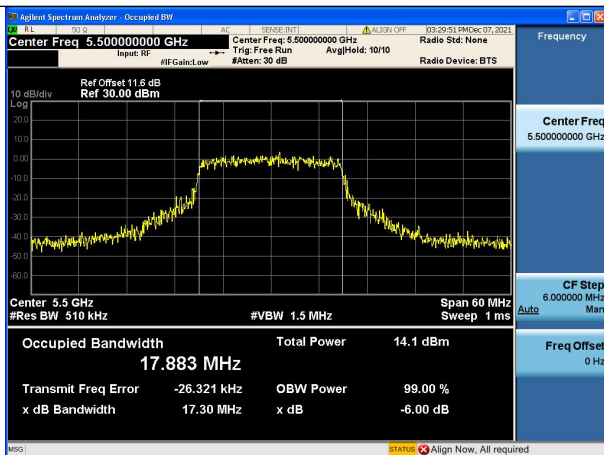


Test Mode:802.11n HT20 5580MHz Chain0

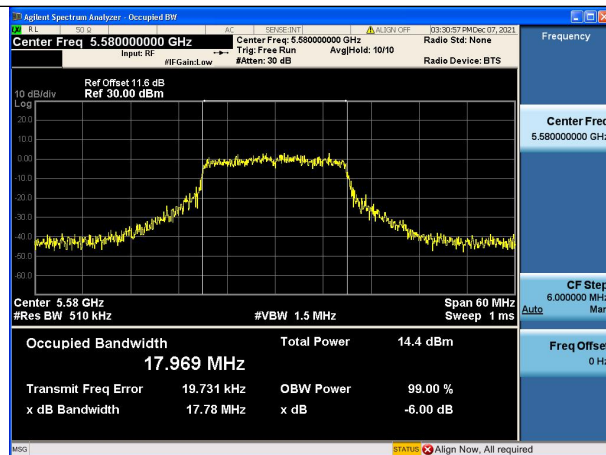


Test Mode:802.11n HT20 5700MHz Chain0

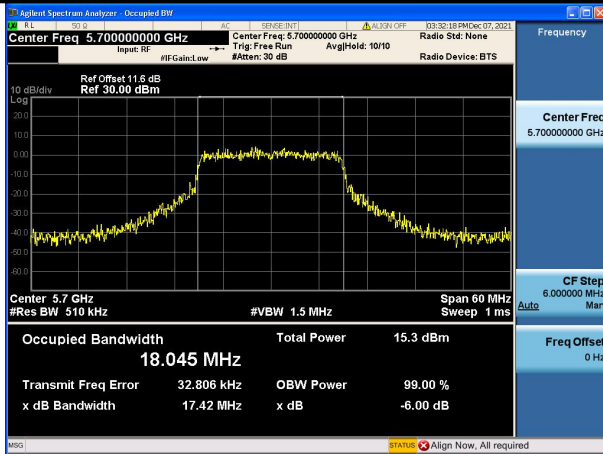
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5500MHz Chain0

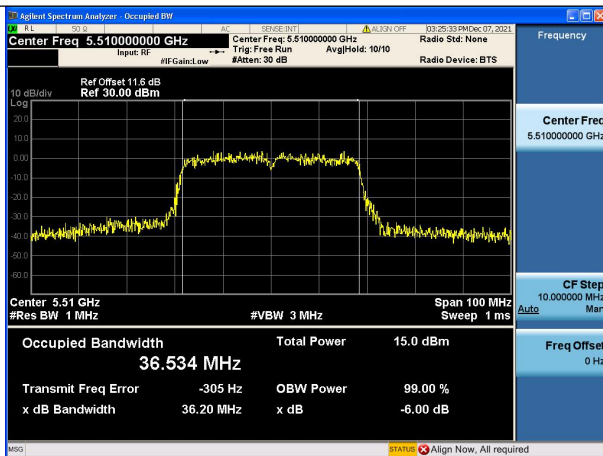


Test Mode:802.11ac VHT20 5580MHz Chain0

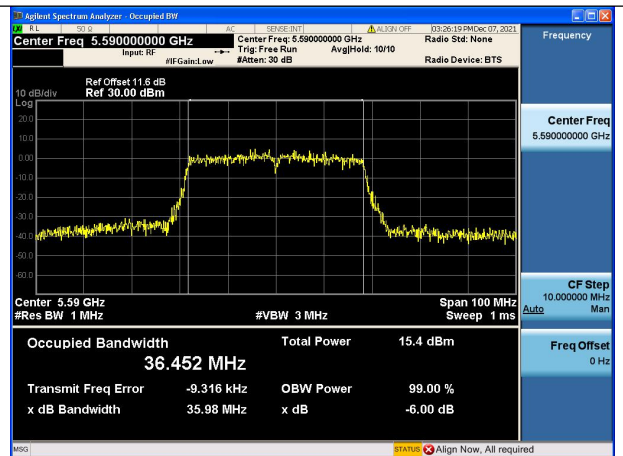


Test Mode:802.11ac VHT20 5700MHz Chain0

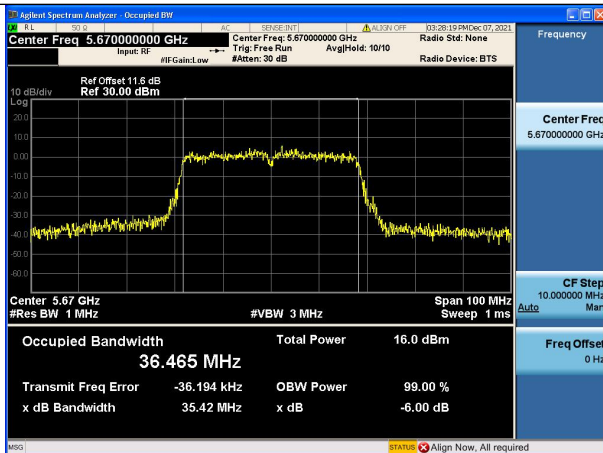
Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5510MHz Chain0

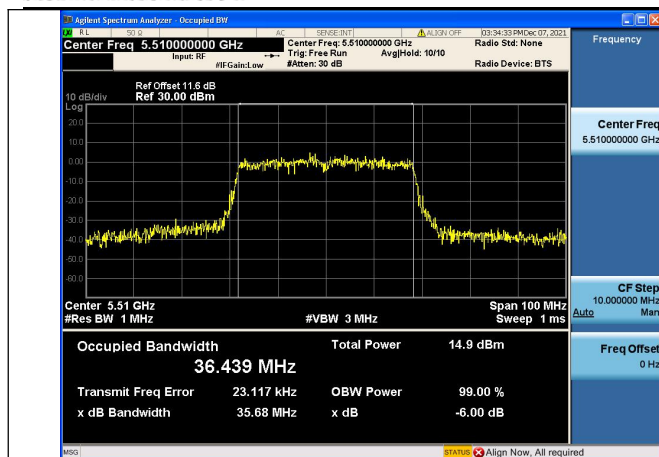


Test Mode:802.11n HT40 5590MHz Chain0

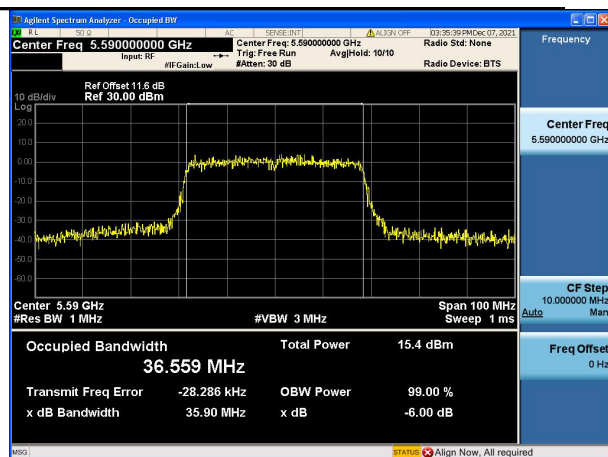


Test Mode:802.11n HT40 5670MHz Chain0

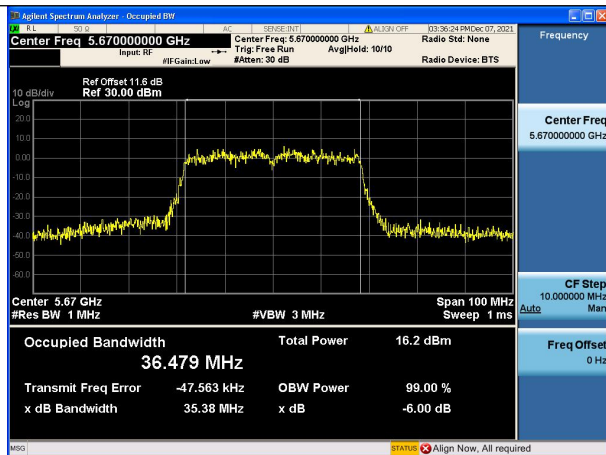
Test Mode: 802.11ac VHT40



Test Mode:802.11ac VHT40 5510MHz Chain0

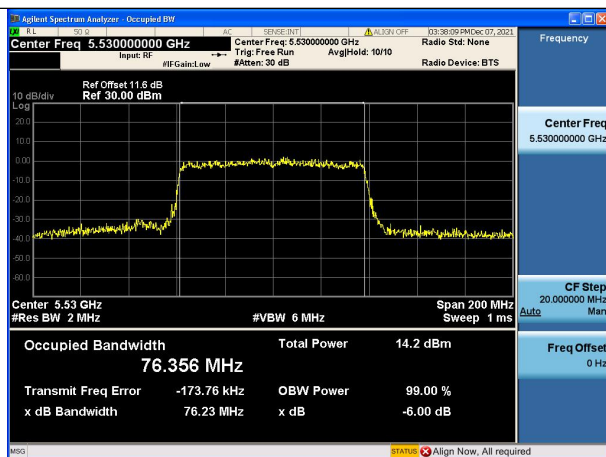


Test Mode:802.11ac VHT40 5590MHz Chain0

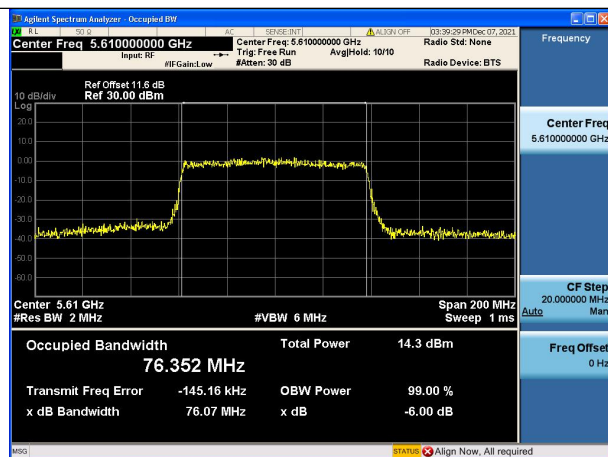


Test Mode:802.11ac VHT40 5670MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5530MHz Chain0



Test Mode:802.11ac VHT80 5610MHz Chain0

Transmitter Power Spectral Density

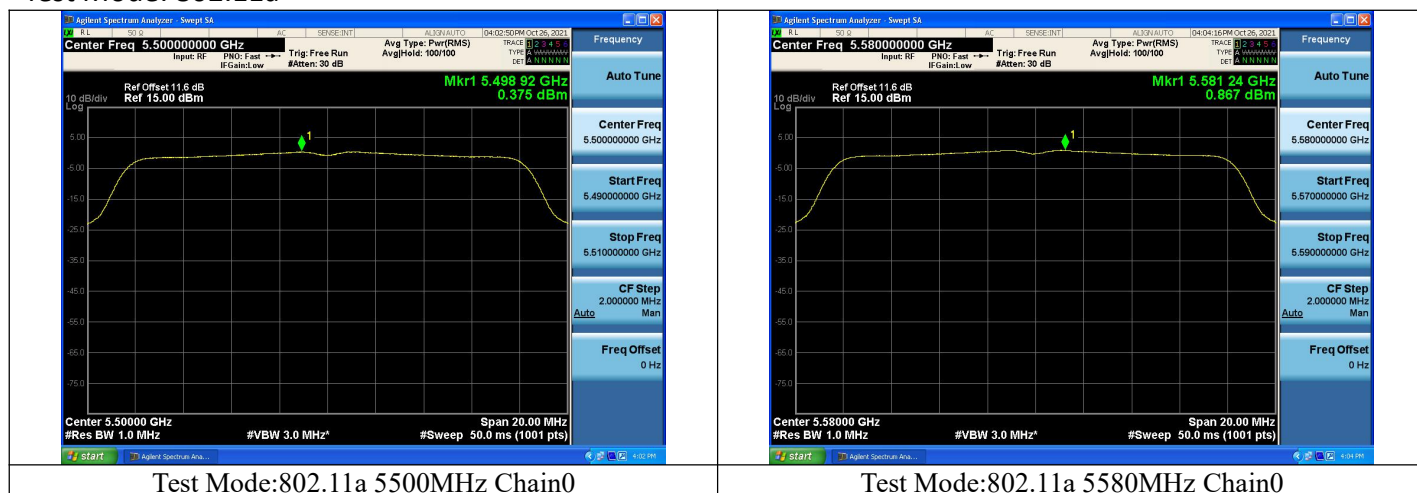
Offset 11.6dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Channel No.618		Channel No.634		Channel No.658	
		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	7.365	0	7.857	0	7.847
802.11n HT20	Chain0	0	6.971	0	7.451	0	7.425
802.11a c VHT20	Chain0	0	6.959	0	7.395	0	7.419

Test Mode	Antenna	Channel No.620		Channel No.636		Channel No.652	
		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	4.523	0	4.479	0	4.761
802.11a c VHT40	Chain0	0	4.454	0	4.413	0	4.833

Test Mode	Antenna	Channel No.624		Channel No.1		Channel No.640	
		5530MHz		---		5610MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11a c VHT80	Chain0	0.09	1.143	---	---	0.09	1.081

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

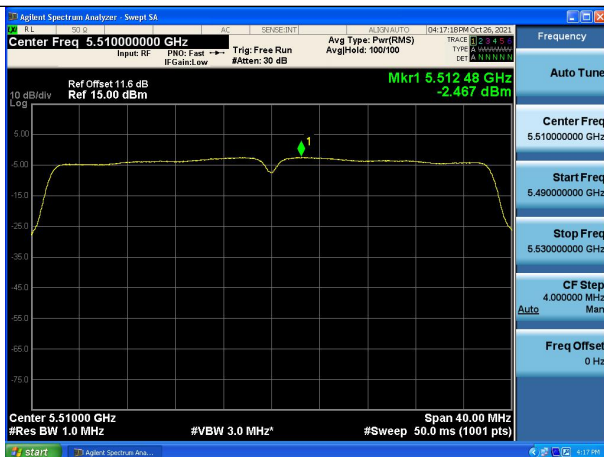


Test Mode:802.11ac VHT20 5580MHz Chain0

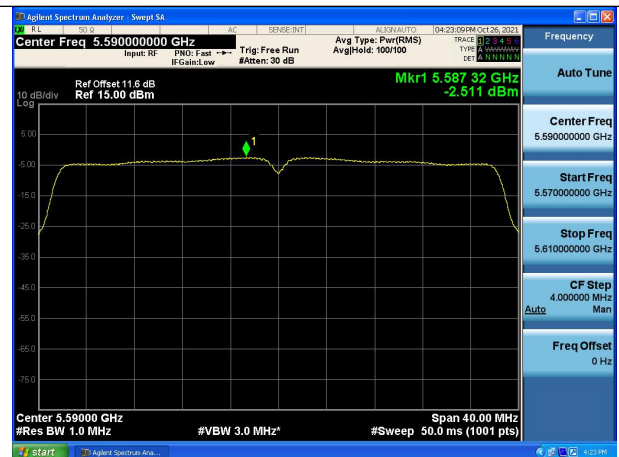


Test Mode:802.11ac VHT20 5700MHz Chain0

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5510MHz Chain0



Test Mode:802.11n HT40 5590MHz Chain0