

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5260	99.48%	0
802.11n HT20	5260	99.37%	0
802.11ac VHT20	5260	99.35%	0
802.11n HT40	5270	98.86%	0
802.11ac VHT40	5270	98.85%	0
802.11ac VHT80	5290	97.62%	0.10

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	5260	Chain0	11.63	9.33
802.11a	NA	5280	Chain0	11.39	9.09
802.11a	NA	5320	Chain0	11.43	9.13
802.11ac VHT20	NA	5260	Chain0	11.47	9.17
802.11ac VHT20	NA	5280	Chain0	11.24	8.94
802.11ac VHT20	NA	5320	Chain0	11.23	8.93
802.11ac VHT40	NA	5270	Chain0	11.80	9.50
802.11ac VHT40	NA	5310	Chain0	11.72	9.42
802.11ac VHT80	NA	5290	Chain0	11.43	9.13
802.11n HT20	NA	5260	Chain0	11.48	9.18
802.11n HT20	NA	5280	Chain0	11.33	9.03
802.11n HT20	NA	5320	Chain0	11.25	8.95
802.11n HT40	NA	5270	Chain0	11.76	9.46
802.11n HT40	NA	5310	Chain0	11.73	9.43

Emission Bandwidth

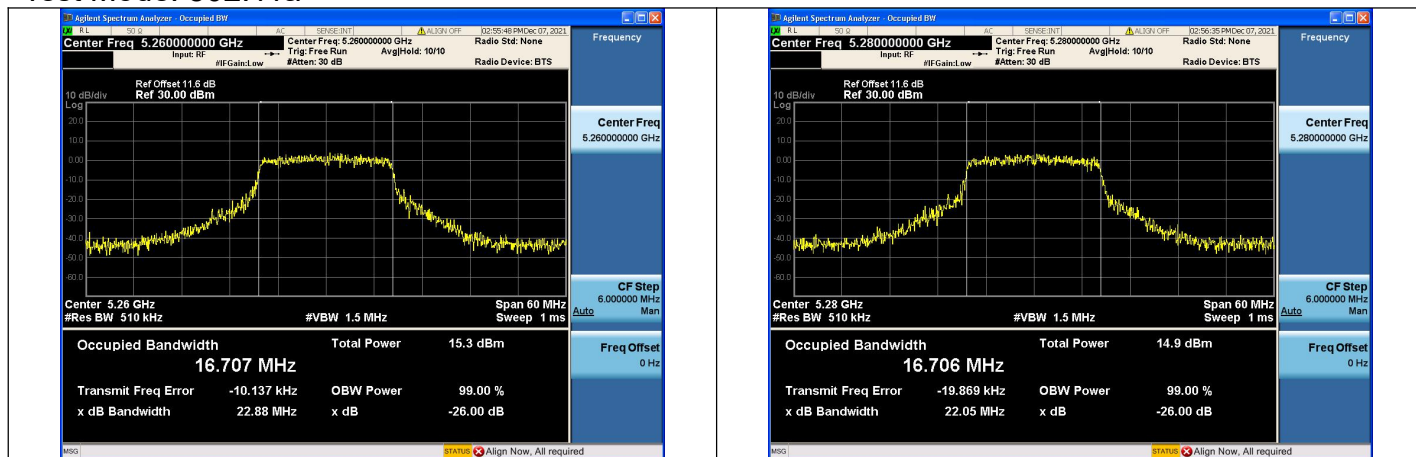
Offset 11.6dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5260MHz	5280MHz	5320MHz
802.11a	Chain0	22.88	22.05	22.78
802.11n HT20	Chain0	23.09	23.00	22.99
802.11ac VHT20	Chain0	24.85	23.36	23.37

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5270MHz	---	5310MHz
802.11n HT40	Chain0	40.06	---	40.33
802.11ac VHT40	Chain0	40.01	---	40.62

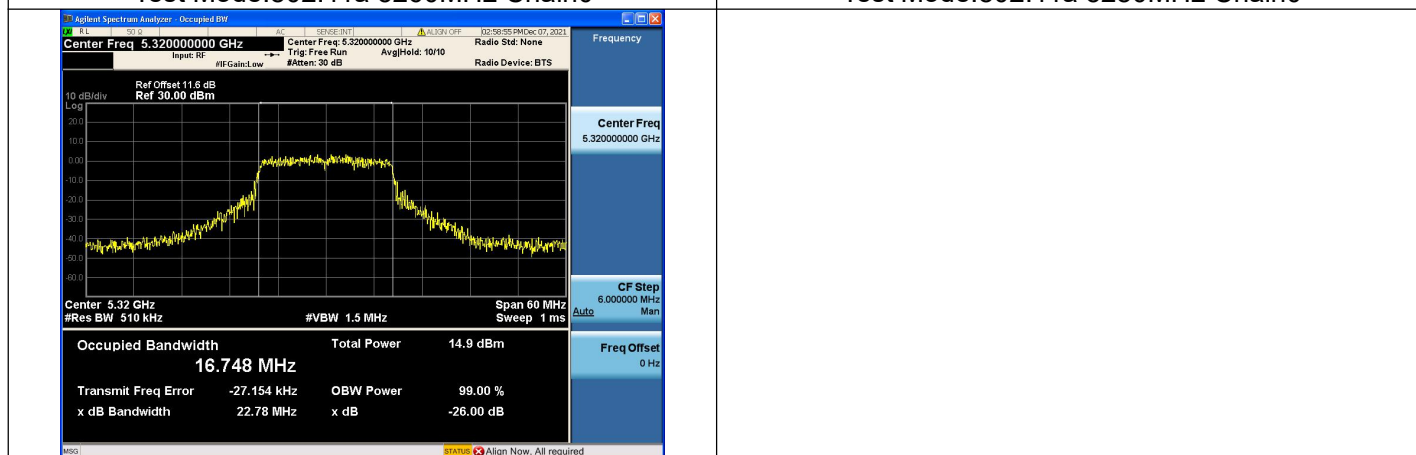
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
802.11ac VHT80	Chain0	5290MHz	---	---
		82.42	---	---

Test Mode: 802.11a



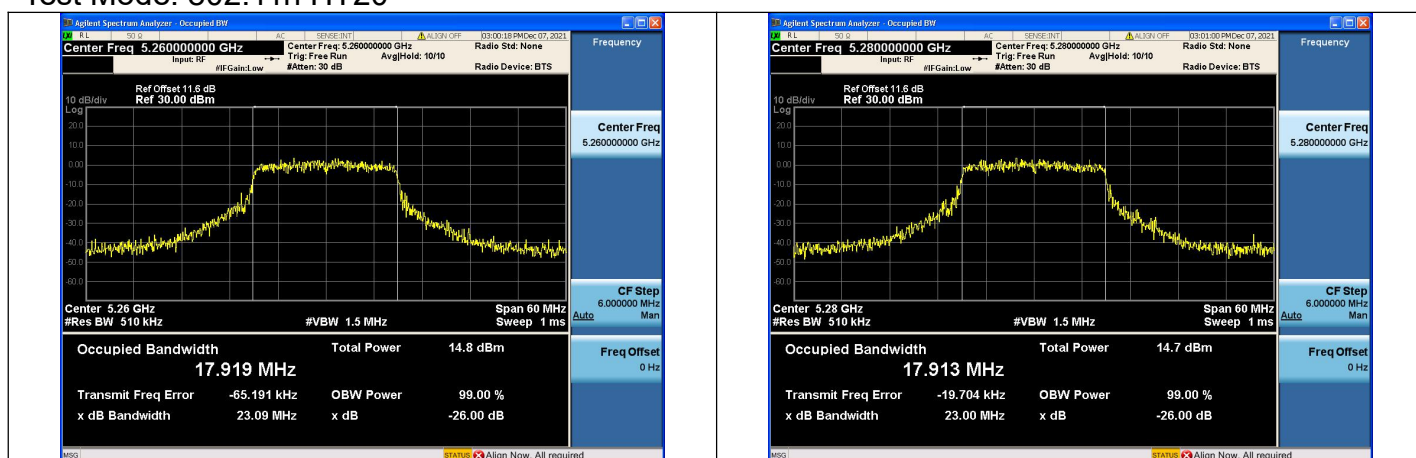
Test Mode:802.11a 5260MHz Chain0

Test Mode:802.11a 5280MHz Chain0



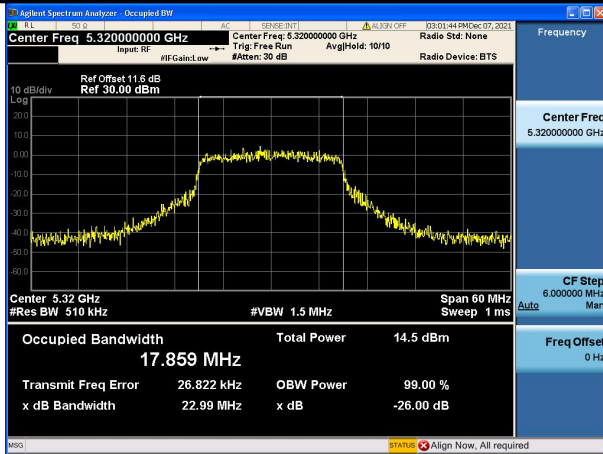
Test Mode:802.11a 5320MHz Chain0

Test Mode: 802.11n HT20



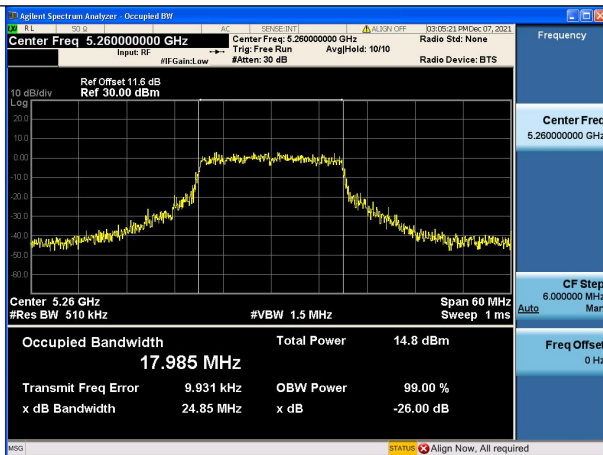
Test Mode:802.11n HT20 5260MHz Chain0

Test Mode:802.11n HT20 5280MHz Chain0

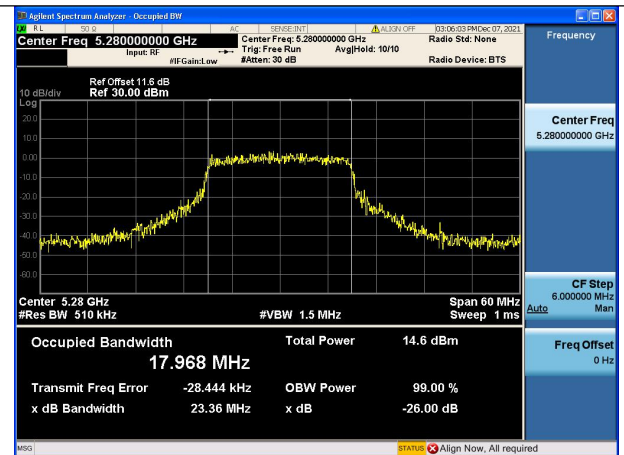


Test Mode:802.11n HT20 5320MHz Chain0

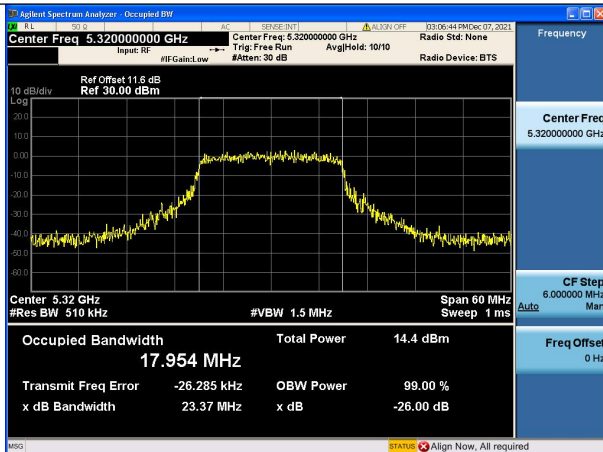
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5260MHz Chain0

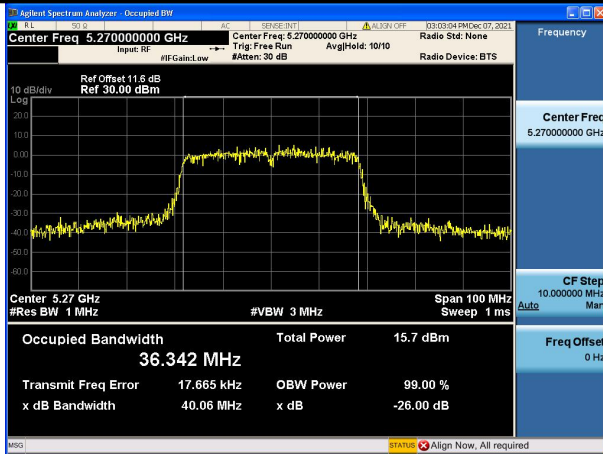


Test Mode:802.11ac VHT20 5280MHz Chain0

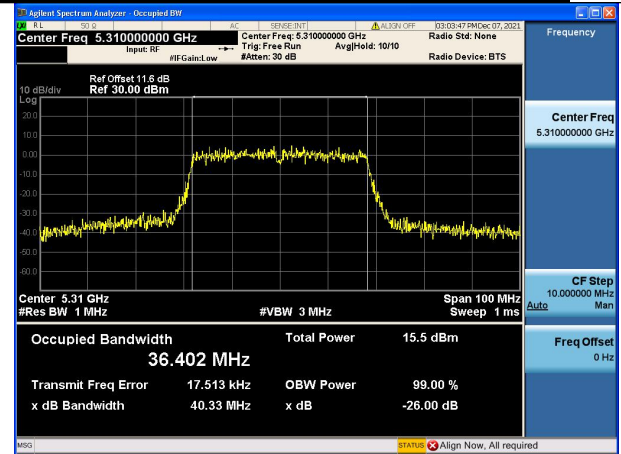


Test Mode:802.11ac VHT20 5320MHz Chain0

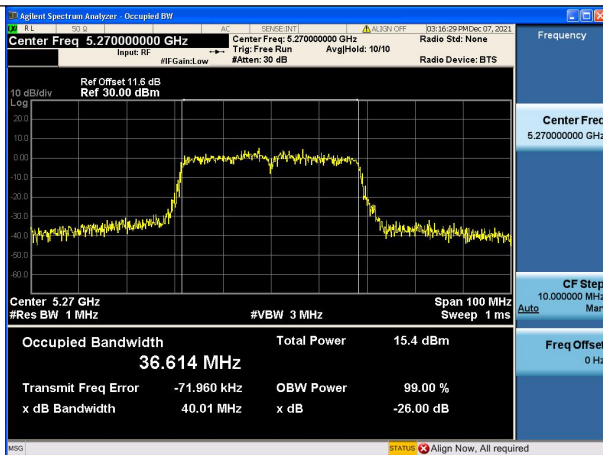
Test Mode: 802.11n HT40



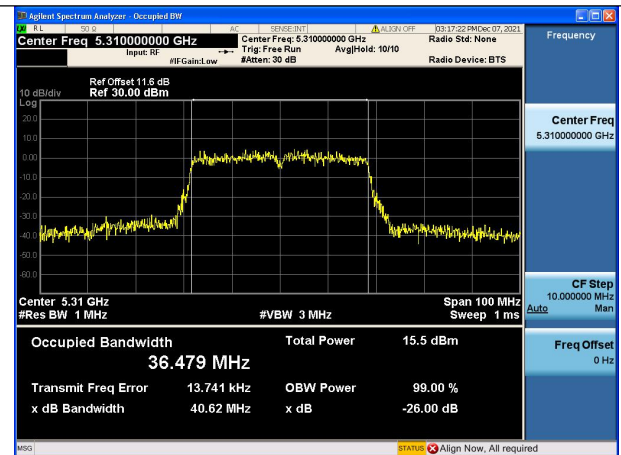
Test Mode:802.11n HT40 5270MHz Chain0



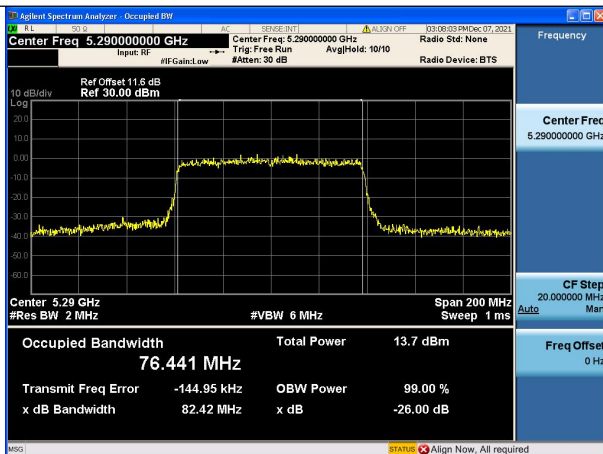
Test Mode:802.11n HT40 5310MHz Chain0



Test Mode:802.11ac VHT40 5270MHz Chain0



Test Mode:802.11ac VHT40 5310MHz Chain0



Test Mode:802.11ac VHT80 5290MHz Chain0

Occupied Bandwidth

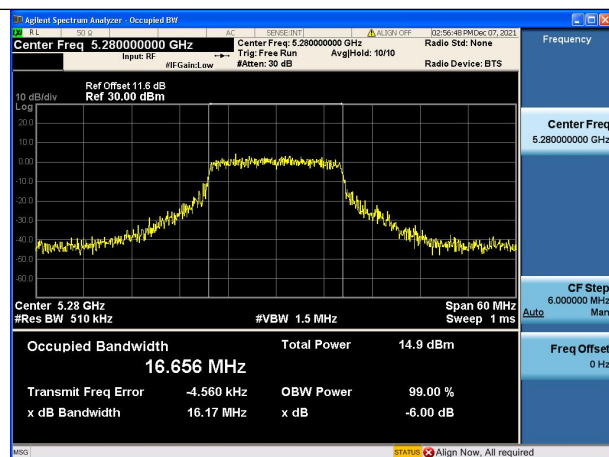
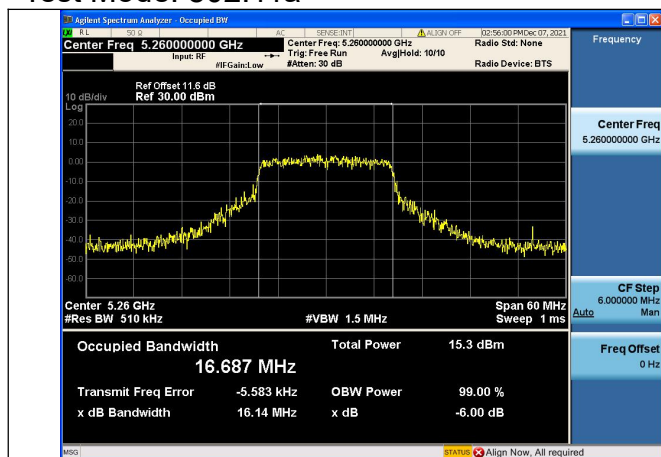
Offset 11.6dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5260MHz	5280MHz	5320MHz
802.11a	Chain0	16.687	16.656	16.745
802.11n HT20	Chain0	17.920	17.973	18.040
802.11ac VHT20	Chain0	17.896	17.933	17.908

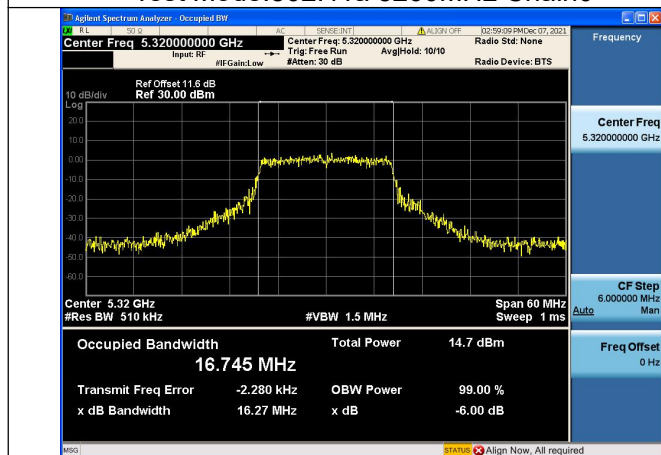
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5270MHz	---	5310MHz
802.11n HT40	Chain0	36.484	---	36.422
802.11ac VHT40	Chain0	36.361	---	36.445

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5290MHz	---	---
802.11ac VHT80	Chain0	76.415	---	---

Test Mode: 802.11a



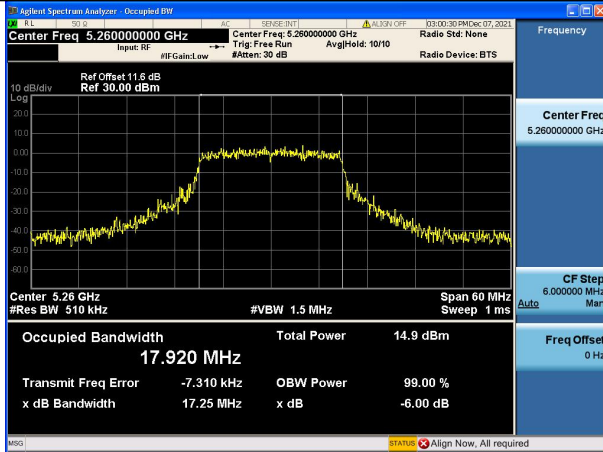
Test Mode:802.11a 5260MHz Chain0



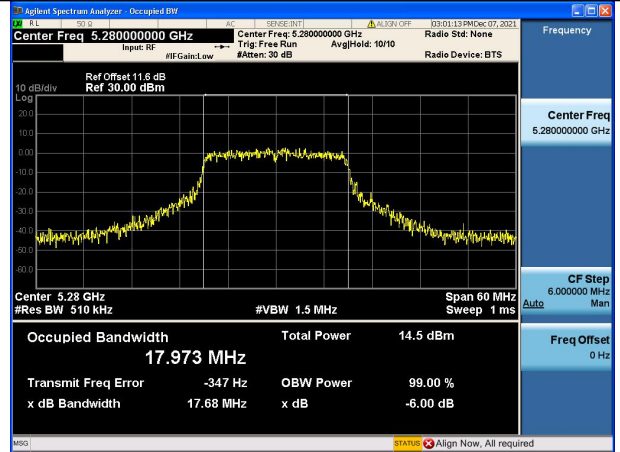
Test Mode:802.11a 5280MHz Chain0

Test Mode:802.11a 5320MHz Chain0

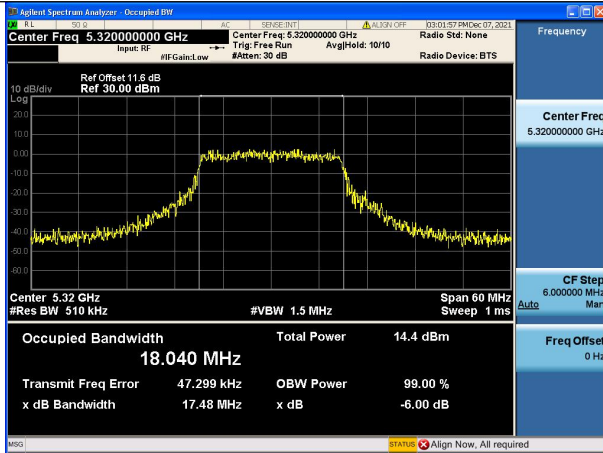
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5260MHz Chain0

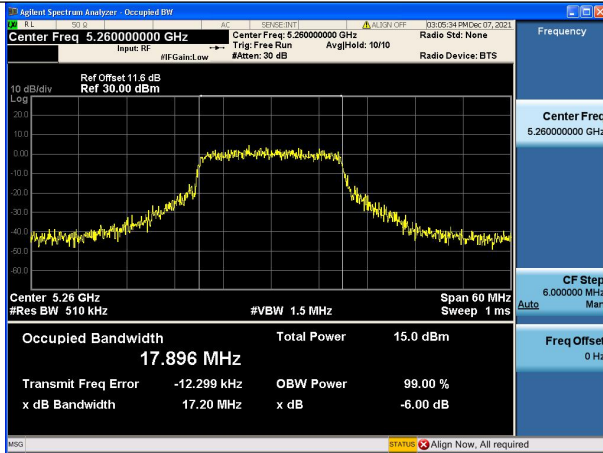


Test Mode:802.11n HT20 5280MHz Chain0

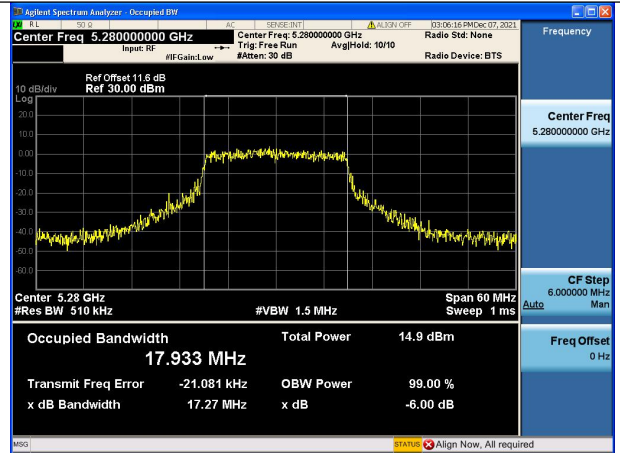


Test Mode:802.11n HT20 5320MHz Chain0

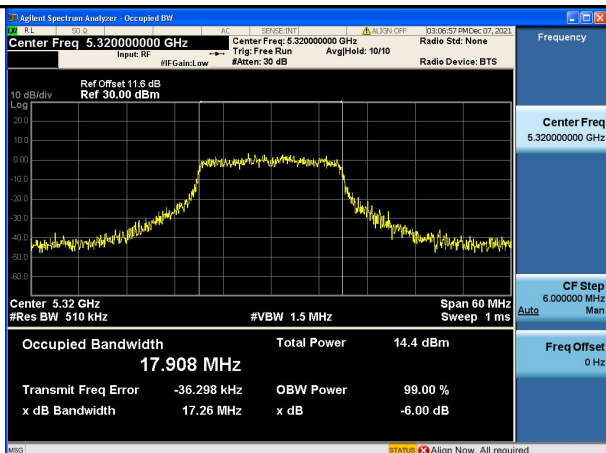
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5260MHz Chain0

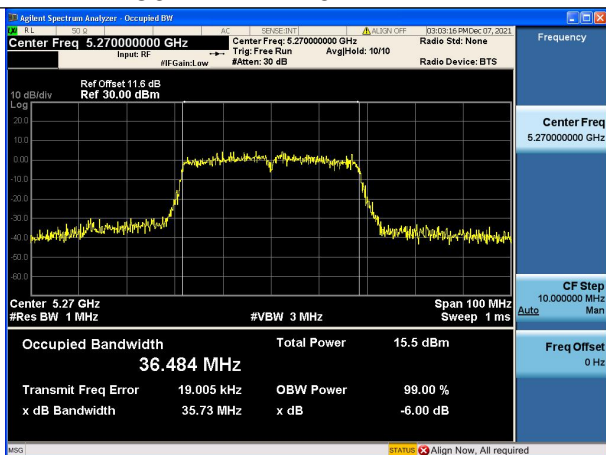


Test Mode:802.11ac VHT20 5280MHz Chain0



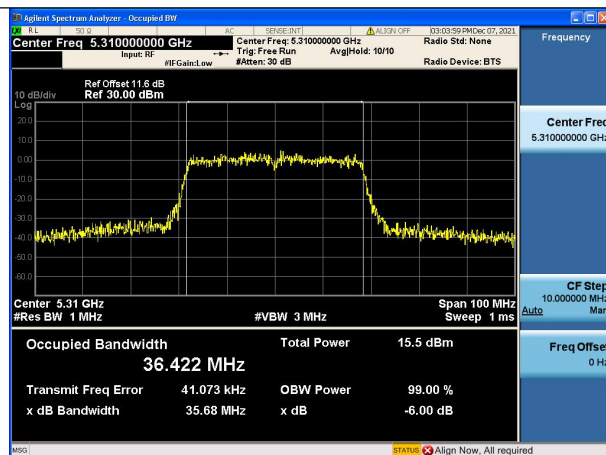
Test Mode: 802.11ac VHT20 5320MHz Chain0

Test Mode: 802.11n HT40

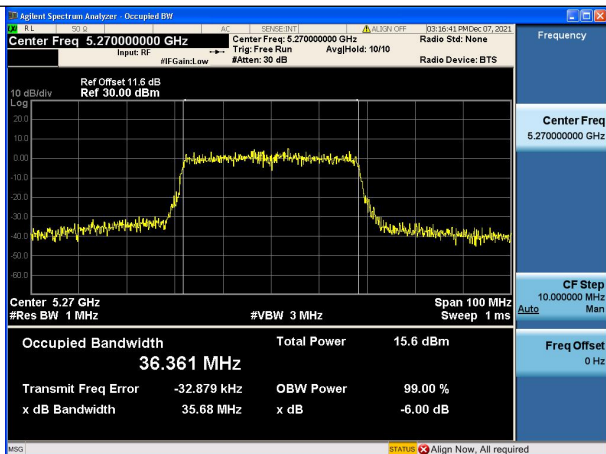


Test Mode: 802.11n HT40 5270MHz Chain0

Test Mode: 802.11ac VHT40

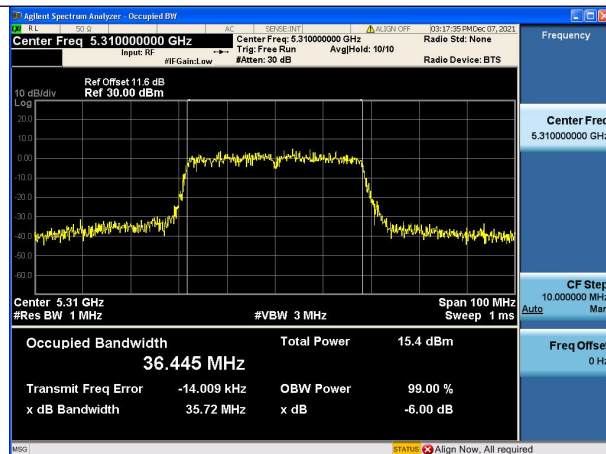


Test Mode: 802.11n HT40 5310MHz Chain0

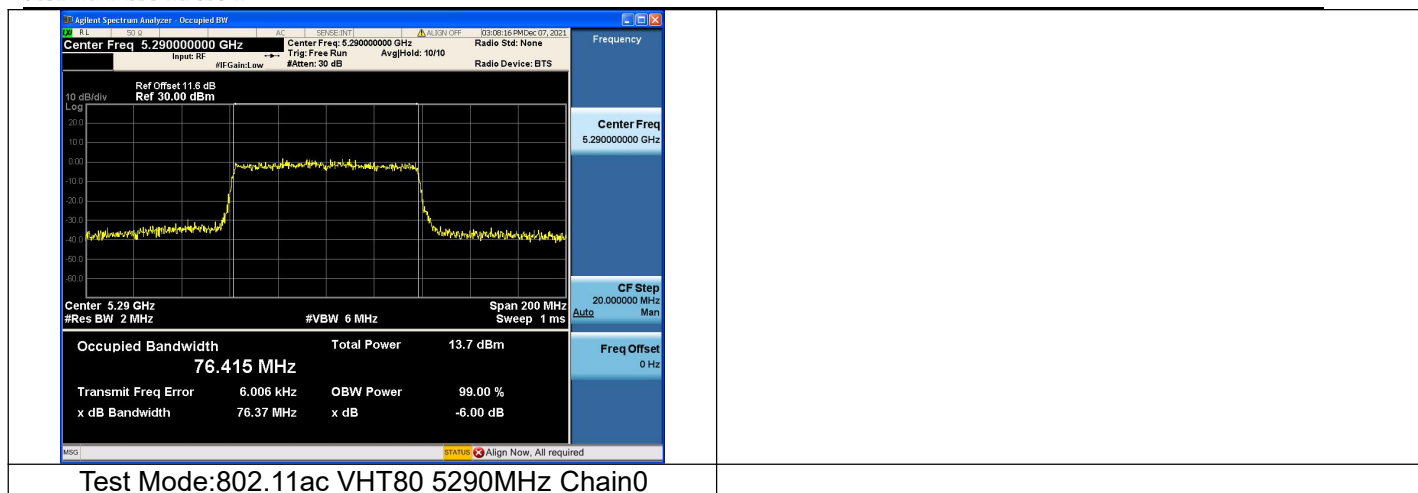


Test Mode: 802.11ac VHT40 5270MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode: 802.11ac VHT40 5310MHz Chain0



Transmitter Power Spectral Density

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

Test Mode	Antenna	Channel No.570		Channel No.574		Channel No.582	
		5260MHz		5280MHz		5320MHz	
		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	7.795	0	7.514	0	7.592
802.11n HT20	Chain0	0	7.346	0	7.186	0	7.180
802.11a c VHT20	Chain0	0	7.389	0	7.120	0	7.056

Test Mode	Antenna	Channel No.572		Channel No.1		Channel No.580	
		5270MHz		---		5310MHz	
		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	4.680	---	---	0	4.675
802.11a c VHT40	Chain0	0	4.784	---	---	0	4.590

Test Mode	Antenna	Channel No.576		Channel No.1		Channel No.2	
		5290MHz		---		---	
		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	0.10	1.086	---	---	---	---

Test Mode: 802.11a



Test Mode: 802.11a 5260MHz Chain0



Test Mode: 802.11a 5280MHz Chain0

Test Mode: 802.11a 5320MHz Chain0

Test Mode: 802.11n HT20



Test Mode: 802.11n HT20 5260MHz Chain0

Test Mode: 802.11n HT20 5280MHz Chain0



Test Mode:802.11n HT20 5320MHz Chain0

Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5260MHz Chain0



Test Mode:802.11ac VHT20 5280MHz Chain0



Test Mode:802.11ac VHT20 5320MHz Chain0

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5270MHz Chain0



Test Mode:802.11n HT40 5310MHz Chain0

Test Mode: 802.11ac VHT40



Test Mode:802.11ac VHT40 5270MHz Chain0



Test Mode:802.11ac VHT40 5310MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5290MHz Chain0