

## **APPENDIX A – TEST DATA OF CONDUCTED EMISSION**

### **Duty Cycle**

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5180	97.69%	0.10
802.11n HT20	5180	97.53%	0.11
802.11ac VHT20	5180	97.67%	0.10
802.11n HT40	5190	95.53%	0.20
802.11ac VHT40	5190	95.51%	0.20
802.11ac VHT80	5210	91.94%	0.37

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	5180	Chain0	14.34	16.24
802.11a	NA	5220	Chain0	14.38	16.28
802.11a	NA	5240	Chain0	14.02	15.92
802.11n HT20	NA	5180	Chain0	14.28	16.18
802.11n HT20	NA	5220	Chain0	14.28	16.18
802.11n HT20	NA	5240	Chain0	14.04	15.94
802.11ac VHT20	NA	5180	Chain0	13.74	15.64
802.11ac VHT20	NA	5220	Chain0	13.88	15.78
802.11ac VHT20	NA	5240	Chain0	14.12	16.02
802.11n HT40	NA	5190	Chain0	14.01	15.91
802.11n HT40	NA	5230	Chain0	13.86	15.76
802.11ac VHT40	NA	5190	Chain0	13.62	15.52
802.11ac VHT40	NA	5230	Chain0	13.75	15.65
802.11ac VHT80	NA	5210	Chain0	13.40	15.3

### Emission Bandwidth

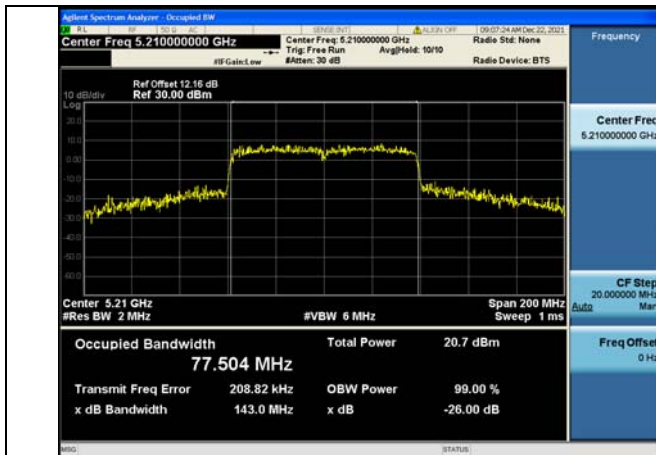
Offset 12.16dB = Attenuator 10dB + Temporary antenna connector loss 0.2dB + Cable loss 1.96dB

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.554	Channel No.562	Channel No.566
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	36.86	32.78	35.65

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.556	---	Channel No.564
		5190MHz	---	5230MHz
802.11n HT40	Chain0	73.54	---	75.56
802.11ac VHT40	Chain0	72.85	---	63.95

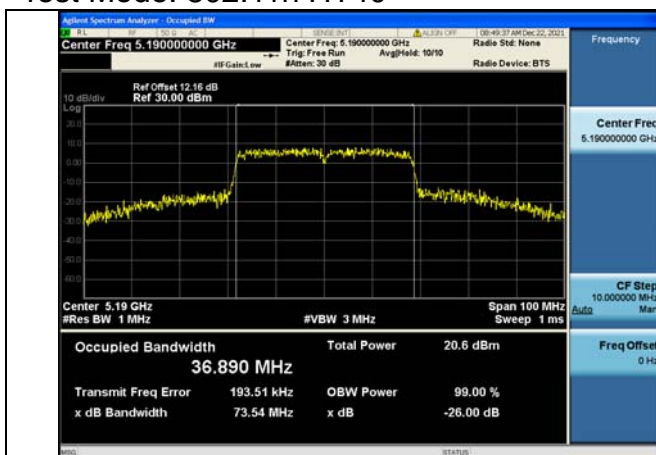
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.560	---	---
		5210MHz	---	---
802.11ac VHT80	Chain0	143.03	---	---

Test Mode: 802.11ac VHT80

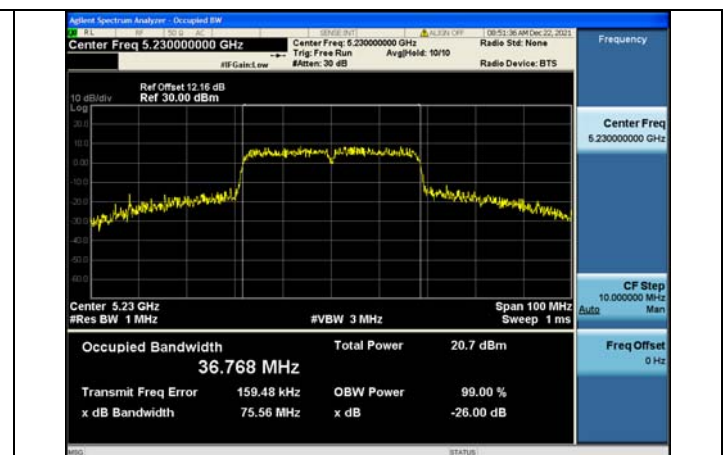


Test Mode:802.11ac VHT80 5210MHz Chain0

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5190MHz Chain0

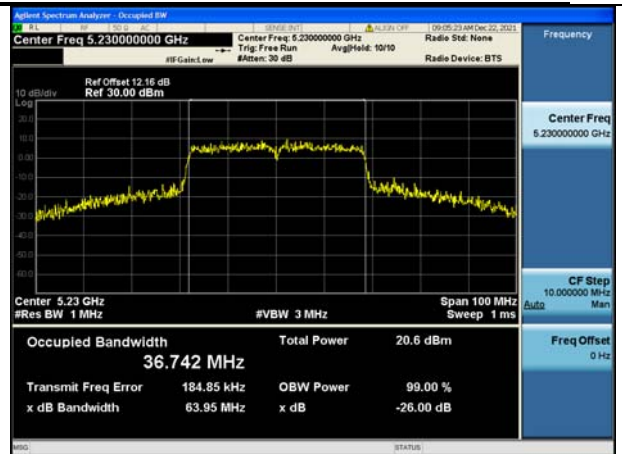


Test Mode:802.11n HT40 5230MHz Chain0

Test Mode: 802.11ac VHT40

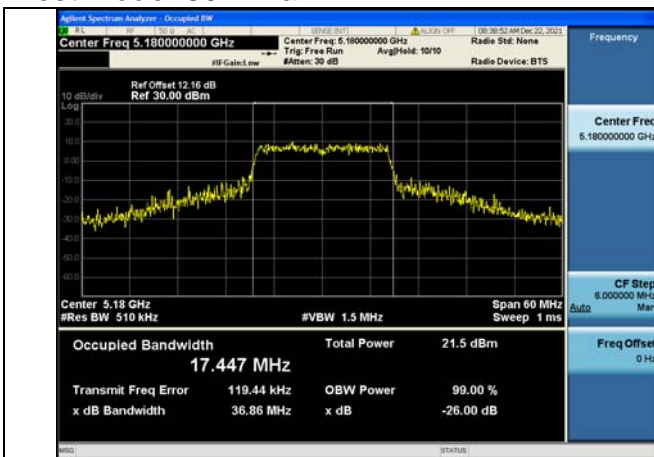


Test Mode:802.11ac VHT40 5190MHz Chain0

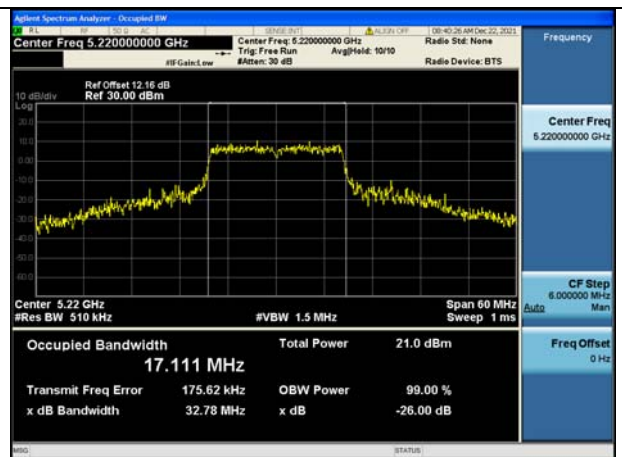


Test Mode:802.11ac VHT40 5230MHz Chain0

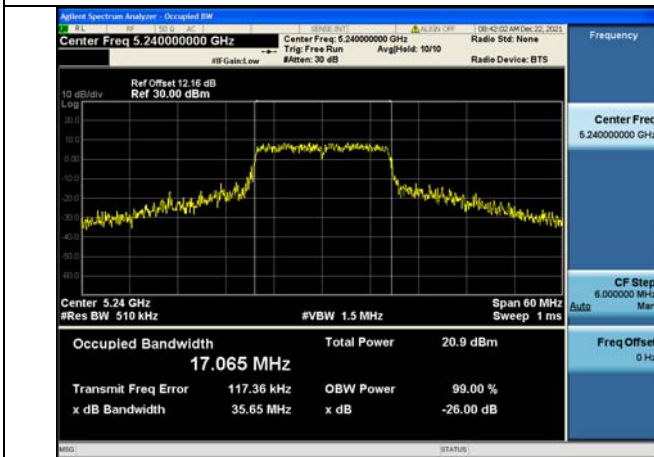
Test Mode: 802.11a



Test Mode:802.11a 5180MHz Chain0



Test Mode:802.11a 5220MHz Chain0

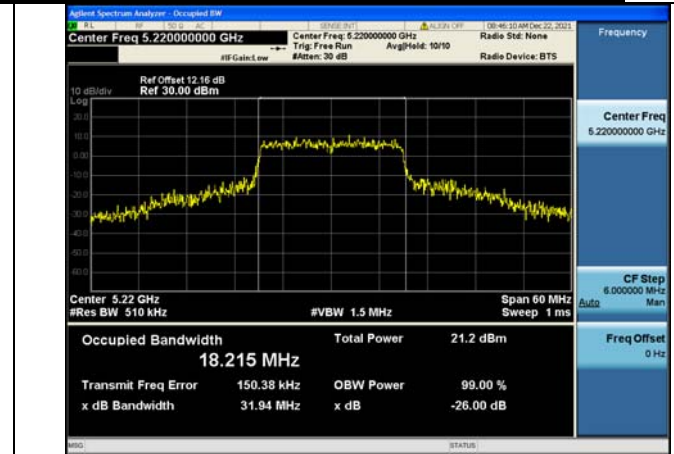


Test Mode:802.11a 5240MHz Chain0

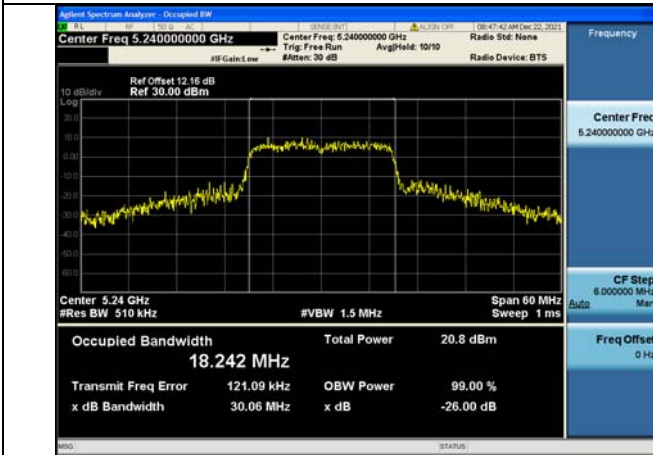
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5180MHz Chain0



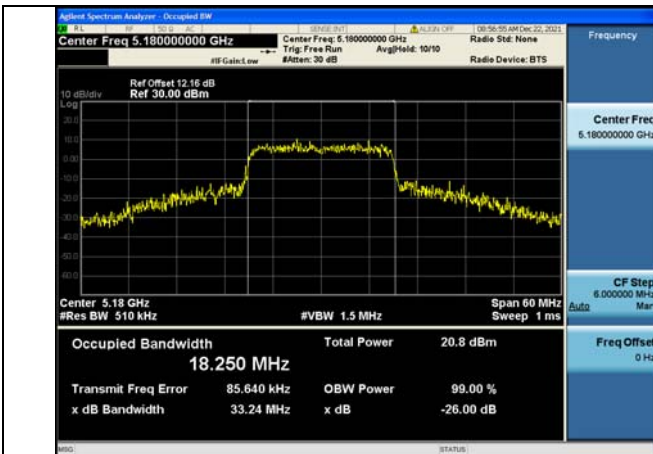
Test Mode:802.11n HT20 5220MHz Chain0



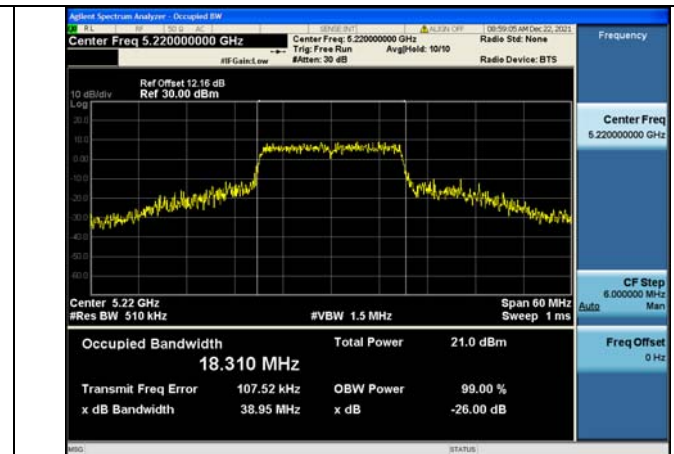
Test Mode:802.11n HT20 5240MHz Chain0




Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5180MHz Chain0



Test Mode:802.11ac VHT20 5220MHz Chain0

	
<p>Test Mode:802.11ac VHT20 5240MHz Chain0</p>	

### Occupied Bandwidth


Offset 12.16dB = Attenuator 10dB + Temporary antenna connector loss 0.2dB + Cable loss 1.96dB

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.554	Channel No.562	Channel No.566
802.11a	Chain0	5180MHz	5220MHz	5240MHz
		17.304	17.216	17.036

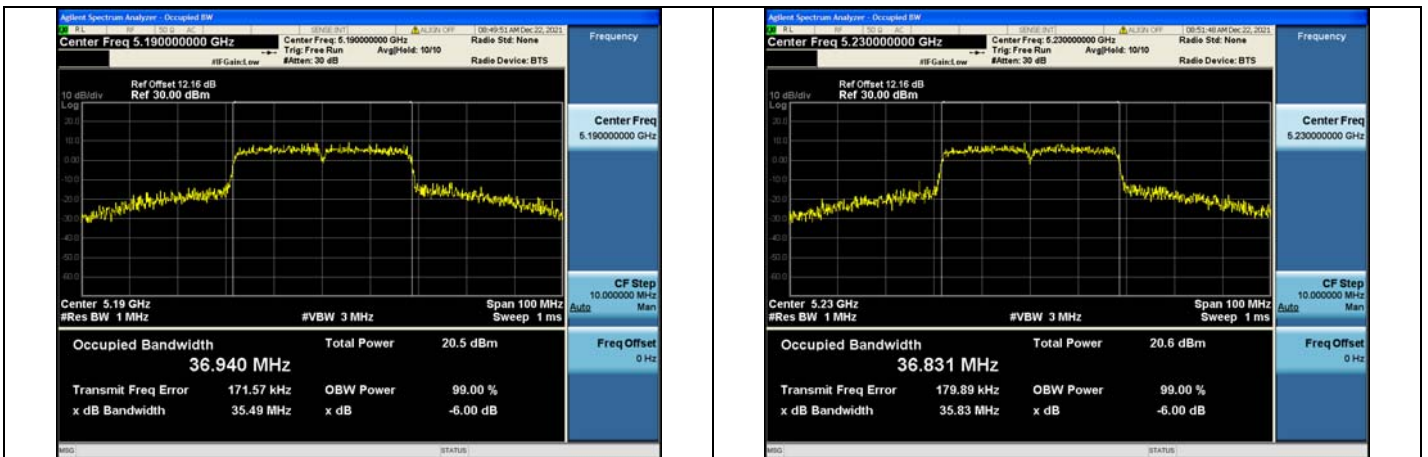
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.556	---	Channel No.564
802.11n HT40	Chain0	5190MHz	---	5230MHz
		36.940	---	36.831
802.11ac VHT40	Chain0	37.000	---	36.778

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.560	---	---
802.11ac VHT80	Chain0	5210MHz	---	---
		77.300	---	---

### Test Mode: 802.11ac VHT80

	
<p>Test Mode:802.11ac VHT80 5210MHz Chain0</p>	

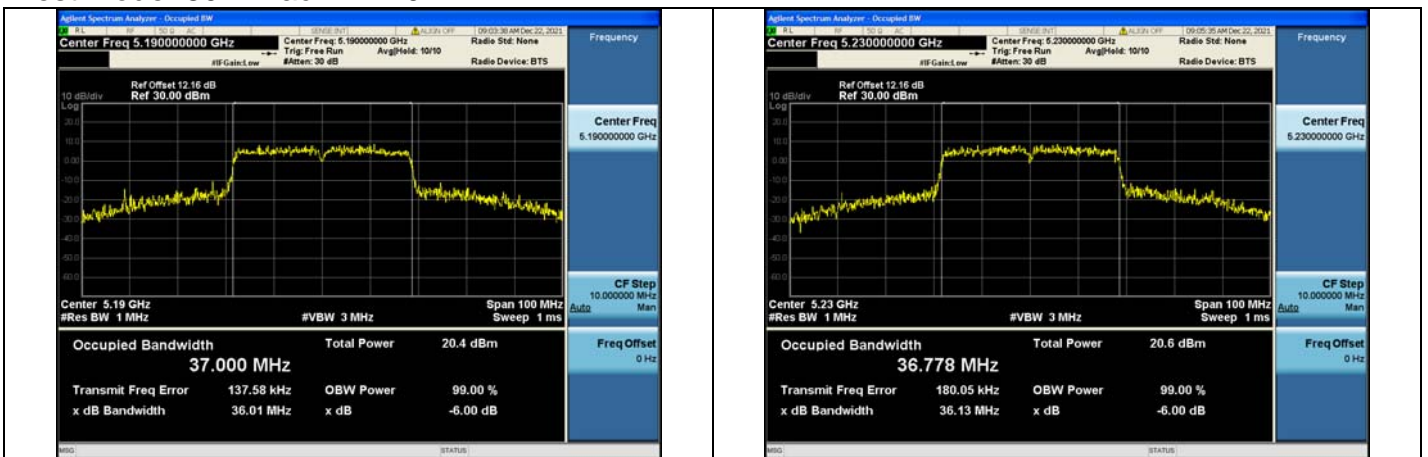
Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5190MHz Chain0

Test Mode:802.11n HT40 5230MHz Chain0

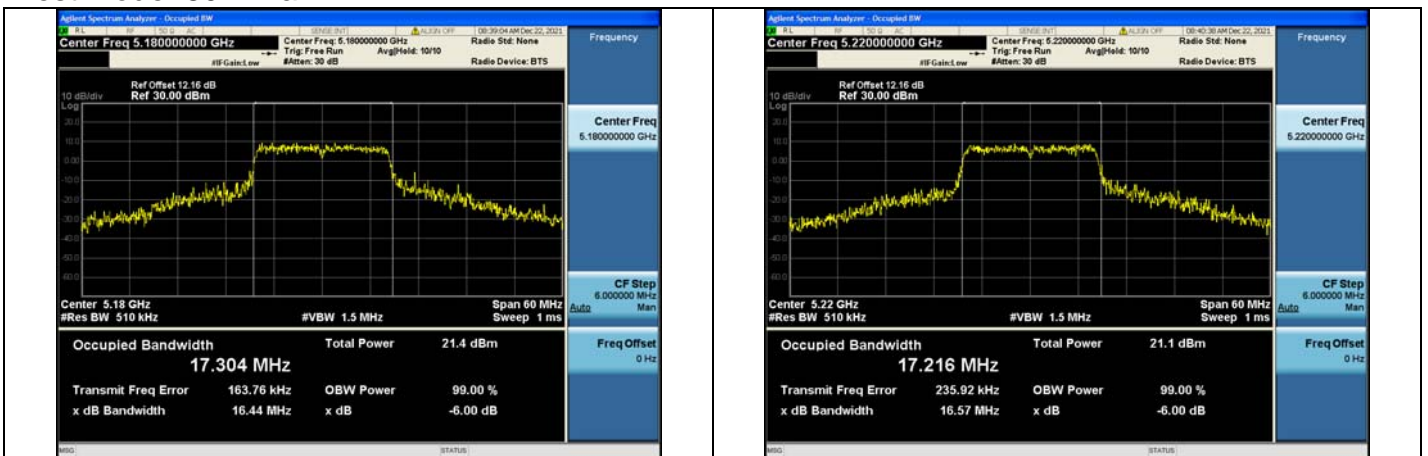
Test Mode: 802.11ac VHT40



Test Mode:802.11ac VHT40 5190MHz Chain0

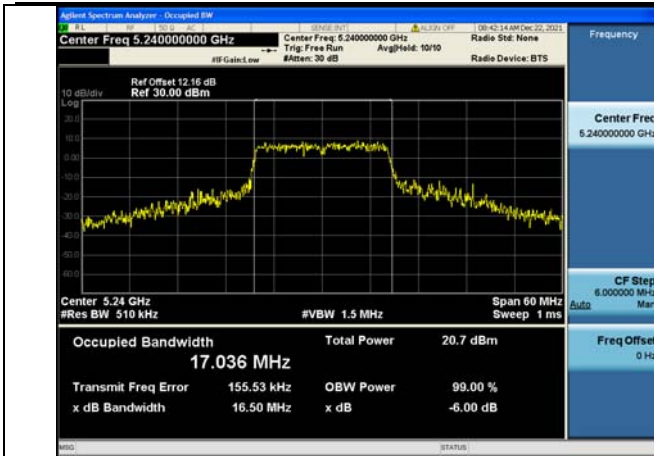
Test Mode:802.11ac VHT40 5230MHz Chain0

Test Mode: 802.11a



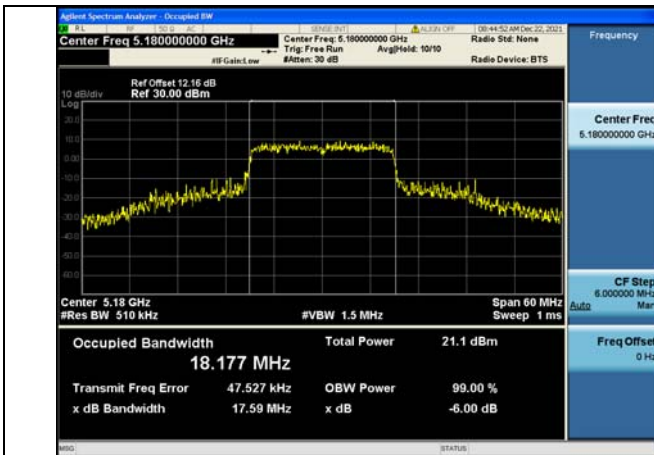
Test Mode:802.11a 5180MHz Chain0

Test Mode:802.11a 5220MHz Chain0

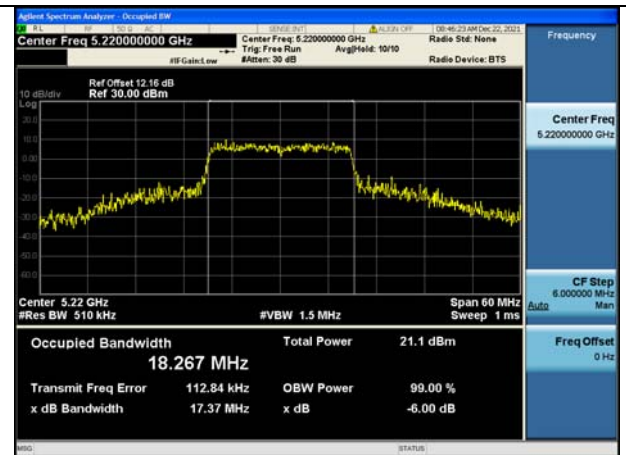


Test Mode:802.11a 5240MHz Chain0

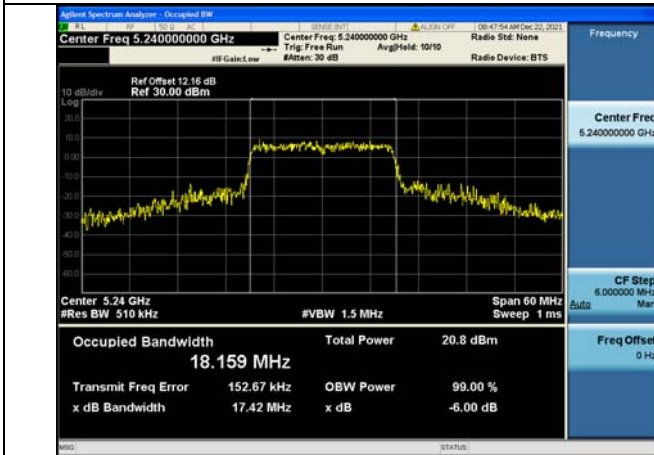
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5180MHz Chain0

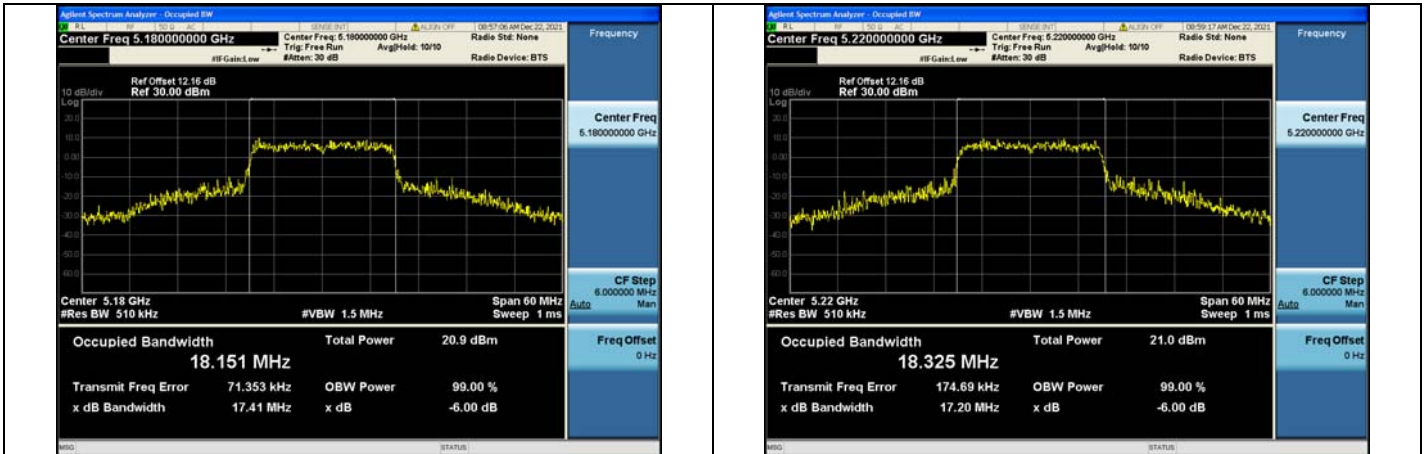


Test Mode:802.11n HT20 5220MHz Chain0



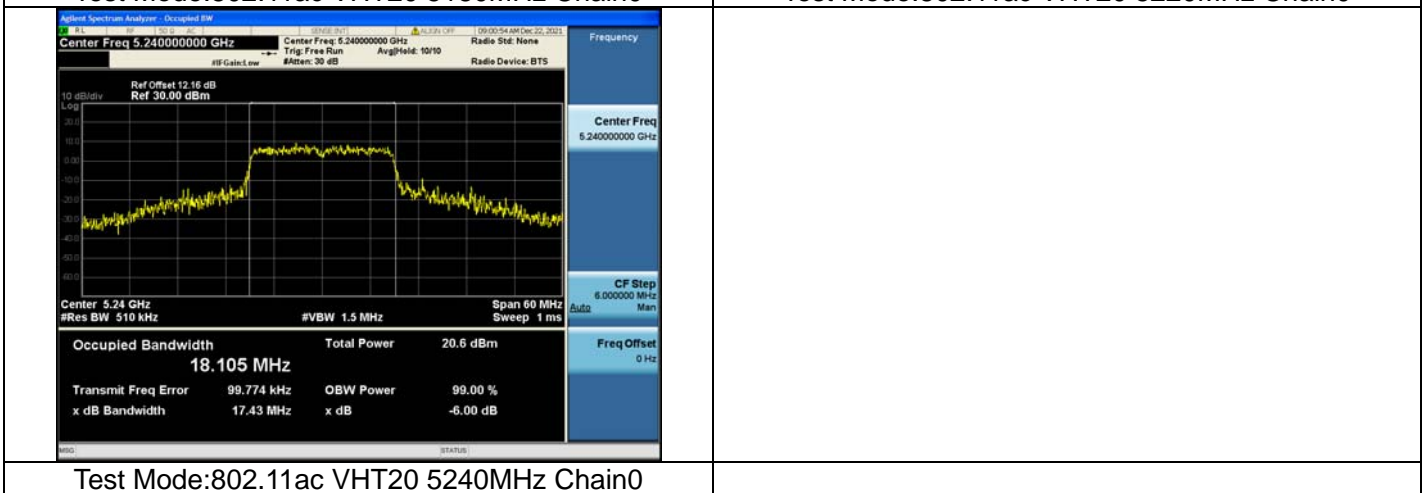
Test Mode:802.11n HT20 5240MHz Chain0

Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5180MHz Chain0

Test Mode:802.11ac VHT20 5220MHz Chain0



Test Mode:802.11ac VHT20 5240MHz Chain0



### Transmitter Power Spectral Density

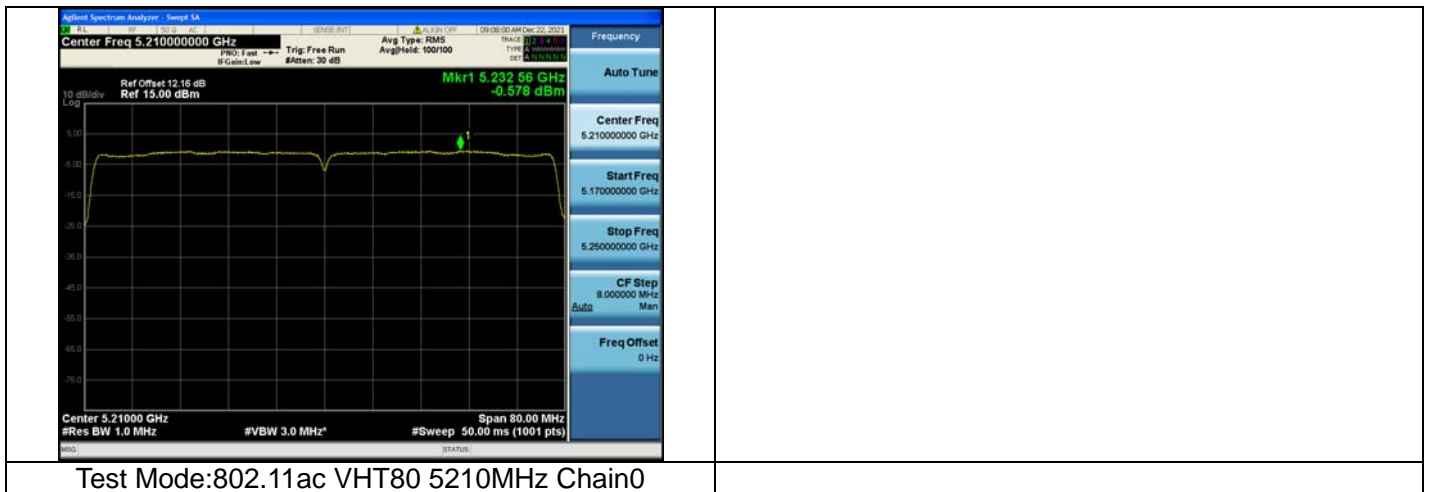
Offset 12.16dB = Attenuator 10dB + Temporary antenna connector loss 0.2dB + Cable loss 1.96dB

Test Mode	Antenna	5180MHz		5220MHz		5240MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11a	Chain0	0.10	6.107	0.10	6.208	0.10	5.936

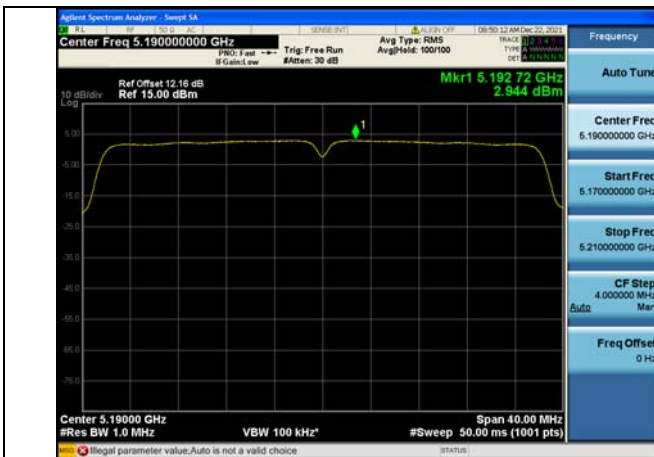
Test Mode	Antenna	5190MHz		---		5230MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11n HT40	Chain0	0.20	2.944	---	---	0.20	3.124
802.11a c VHT40	Chain0	0.20	2.948	---	---	0.20	3.030

Test Mode	Antenna	5210MHz		---		---	
		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	0.37	-0.578	---	---	---	---

#### Test Mode: 802.11ac VHT80



Test Mode: 802.11n HT40

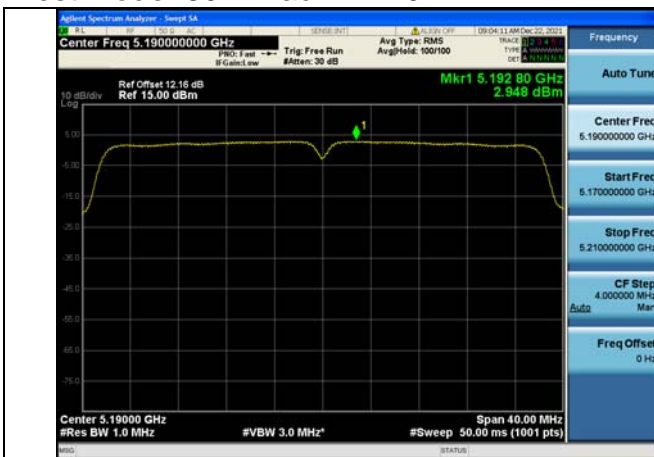


Test Mode:802.11n HT40 5190MHz Chain0



Test Mode:802.11n HT40 5230MHz Chain0

Test Mode: 802.11ac VHT40

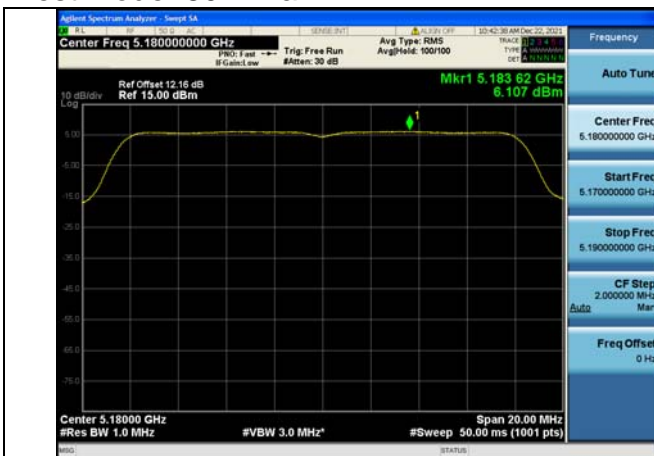


Test Mode:802.11ac VHT40 5190MHz Chain0



Test Mode:802.11ac VHT40 5230MHz Chain0

Test Mode: 802.11a



Test Mode:802.11a 5180MHz Chain0

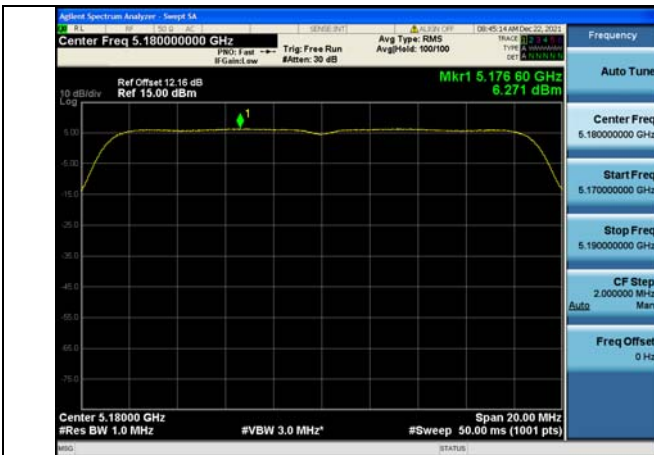


Test Mode:802.11a 5220MHz Chain0



Test Mode:802.11a 5240MHz Chain0

Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5180MHz Chain0

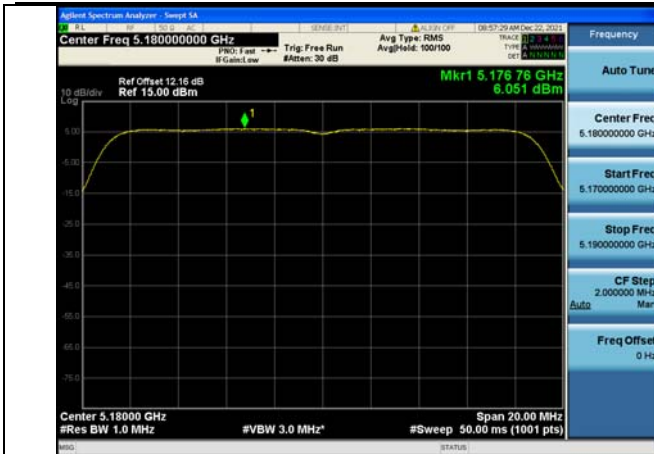


Test Mode:802.11n HT20 5220MHz Chain0

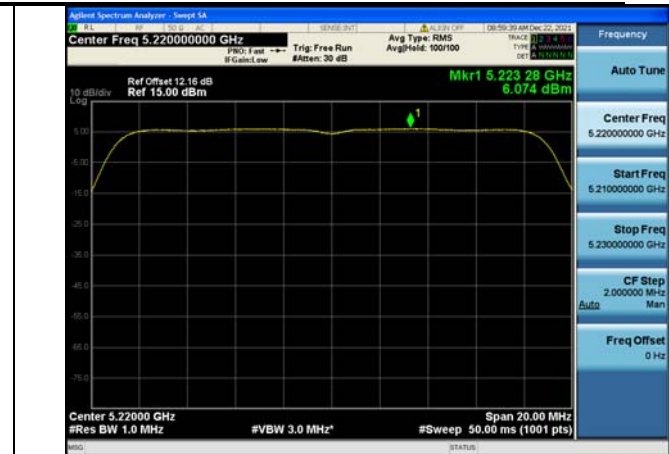


Test Mode:802.11n HT20 5240MHz Chain0

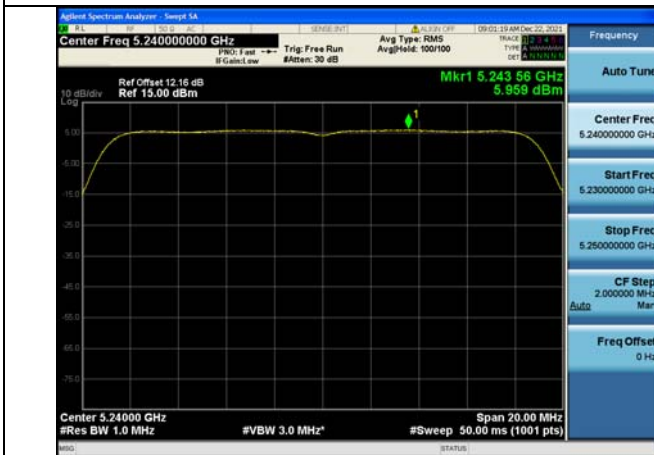
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5180MHz Chain0



Test Mode:802.11ac VHT20 5220MHz Chain0



Test Mode:802.11ac VHT20 5240MHz Chain0