

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5745	99.56%	0
802.11n HT20	5745	99.49%	0
802.11ac VHT20	5745	99.50%	0
802.11n HT40	5755	98.93%	0
802.11ac VHT40	5755	98.93%	0
802.11ac VHT80	5775	96.35%	0.16

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	5745	Chain0	11.76	9.46
802.11a	NA	5785	Chain0	11.59	9.29
802.11a	NA	5825	Chain0	11.76	9.46
802.11ac VHT20	NA	5745	Chain0	11.57	9.27
802.11ac VHT20	NA	5785	Chain0	11.40	9.10
802.11ac VHT20	NA	5825	Chain0	11.60	9.30
802.11ac VHT40	NA	5755	Chain0	11.90	9.60
802.11ac VHT40	NA	5795	Chain0	11.77	9.47
802.11ac VHT80	NA	5775	Chain0	11.31	9.01
802.11n HT20	NA	5745	Chain0	11.57	9.27
802.11n HT20	NA	5785	Chain0	11.44	9.14
802.11n HT20	NA	5825	Chain0	11.58	9.28
802.11n HT40	NA	5755	Chain0	11.89	9.59
802.11n HT40	NA	5795	Chain0	11.75	9.45

Emission Bandwidth

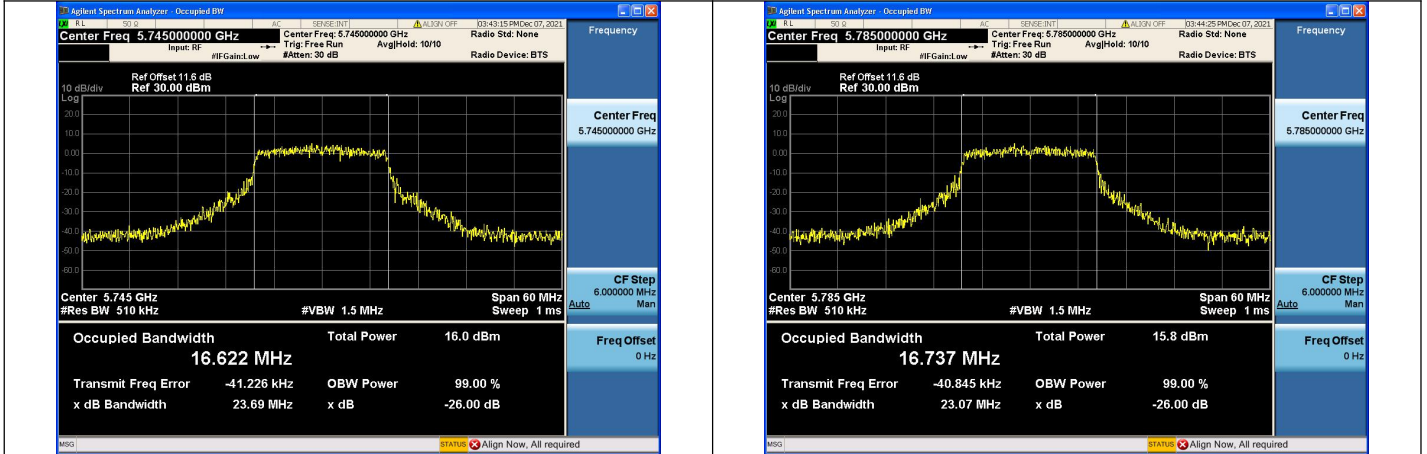
Offset 11.6dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	23.69	23.07	20.92
802.11n HT20	Chain0	23.41	23.75	22.67
802.11ac VHT20	Chain0	22.92	24.22	23.94

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5755MHz	---	5795MHz
802.11n HT40	Chain0	40.53	---	40.48
802.11ac VHT40	Chain0	40.40	---	39.66

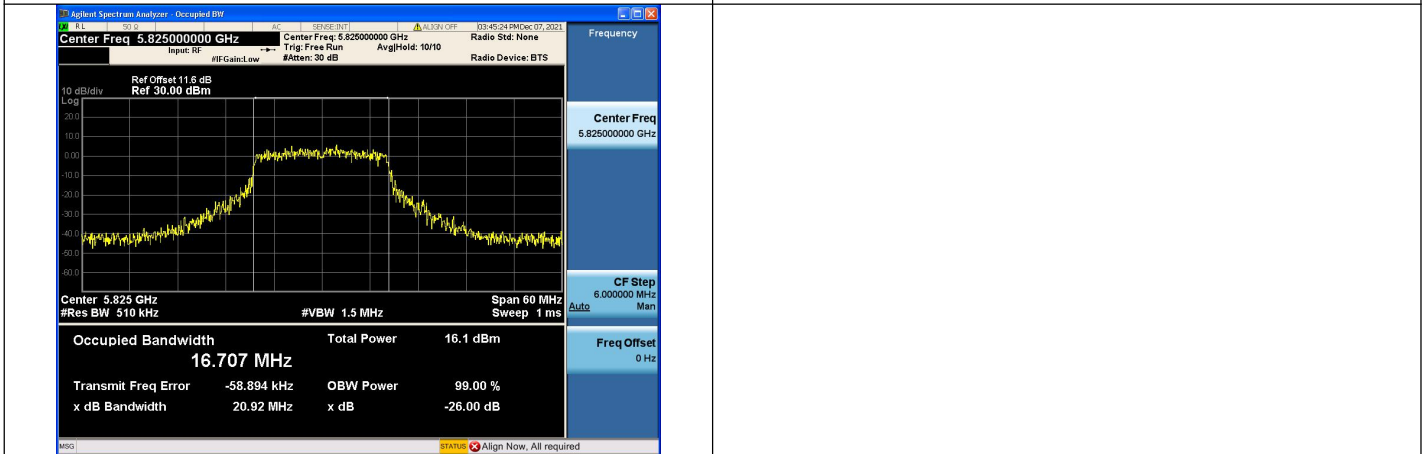
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5775MHz	---	---
802.11ac VHT80	Chain0	82.99	---	---

Test Mode: 802.11a



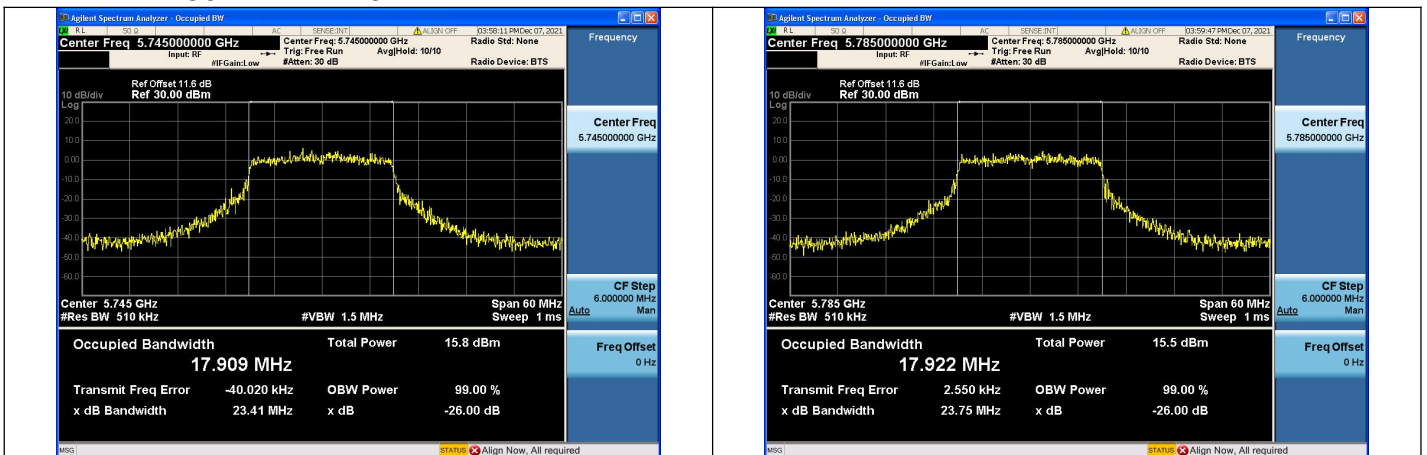
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0



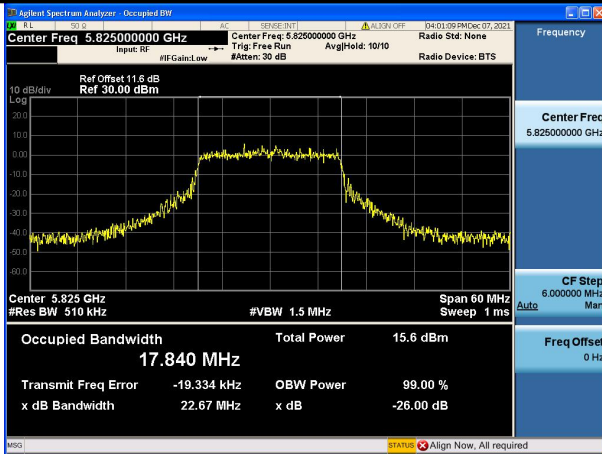
Test Mode:802.11a 5825MHz Chain0

Test Mode: 802.11n HT20



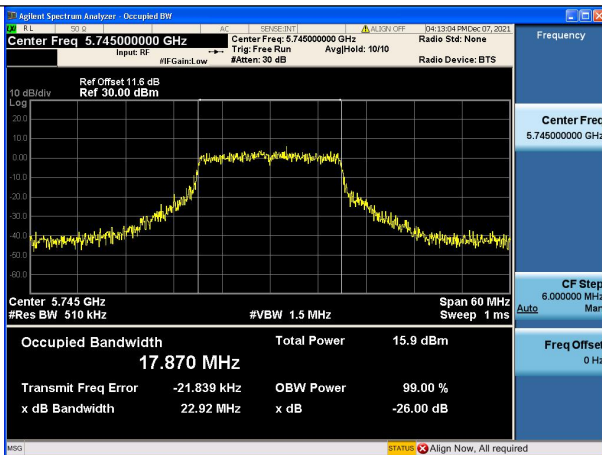
Test Mode:802.11n HT20 5745MHz Chain0

Test Mode:802.11n HT20 5785MHz Chain0

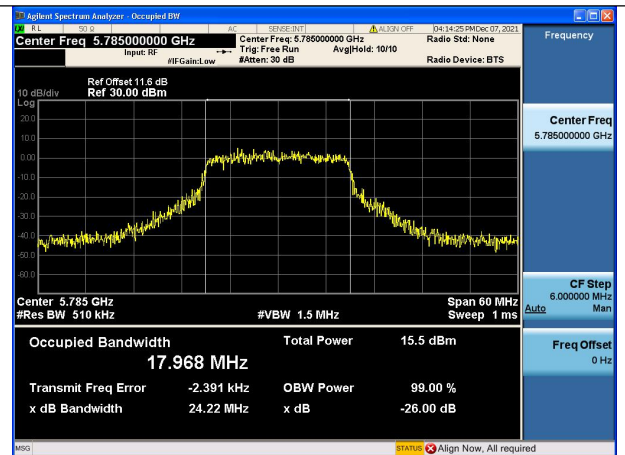


Test Mode:802.11n HT20 5825MHz Chain0

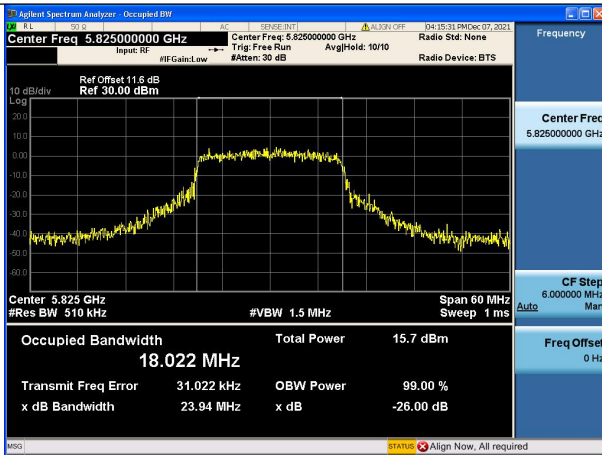
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5745MHz Chain0

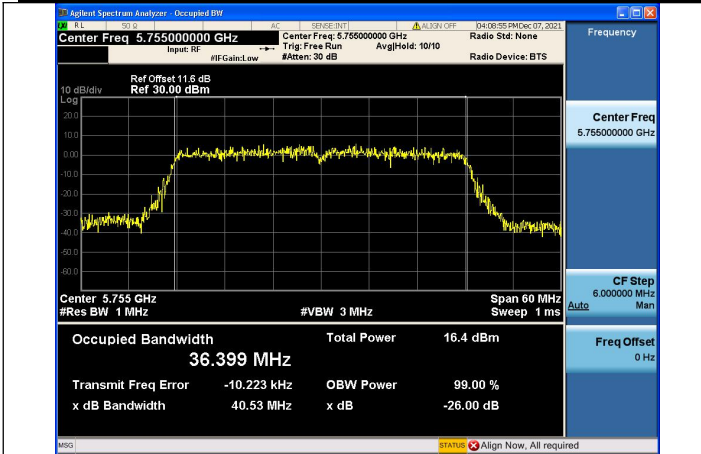


Test Mode:802.11ac VHT20 5785MHz Chain0

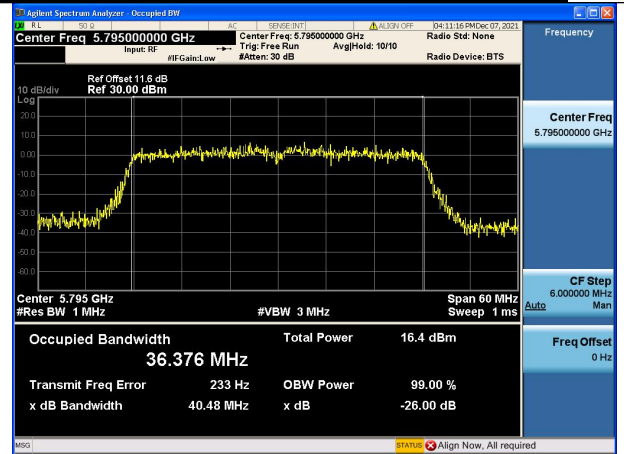


Test Mode:802.11ac VHT20 5825MHz Chain0

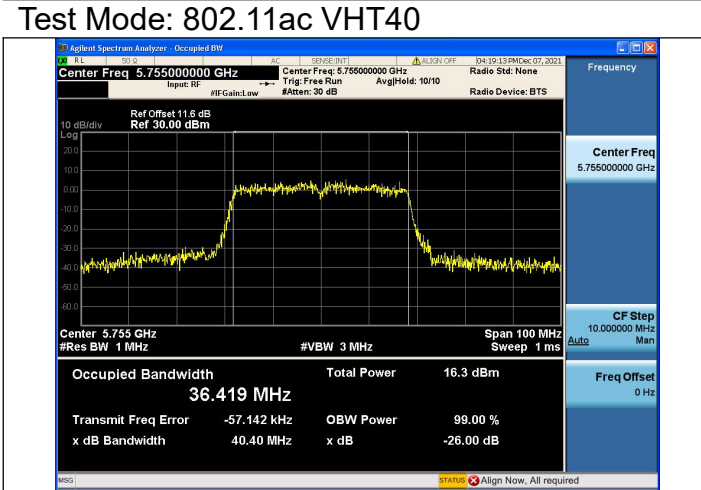
Test Mode: 802.11n HT40



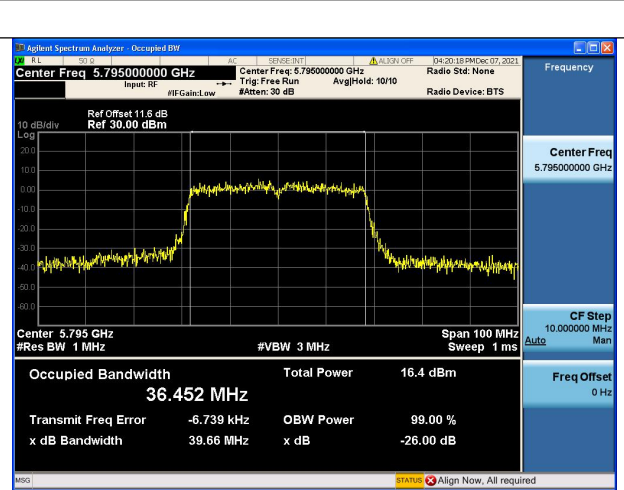
Test Mode:802.11n HT40 5755MHz Chain0



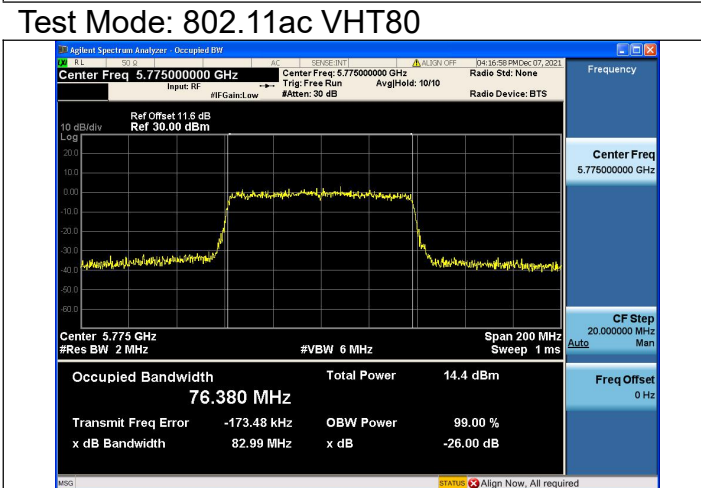
Test Mode:802.11n HT40 5795MHz Chain0



Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0



Test Mode:802.11ac VHT80 5775MHz Chain0



Test Mode:802.11ac VHT80 5795MHz Chain0

Occupied Bandwidth

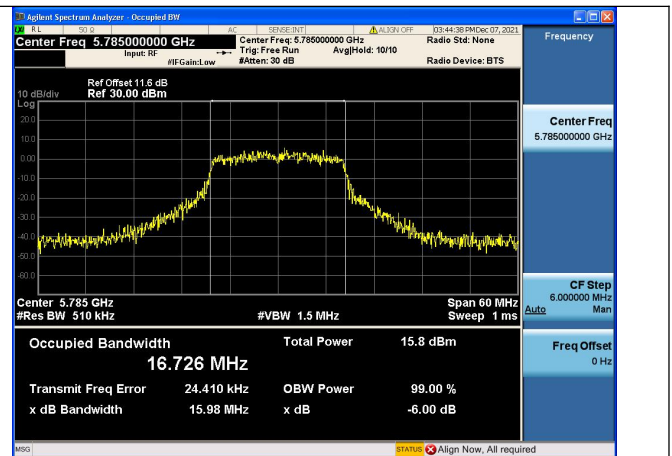
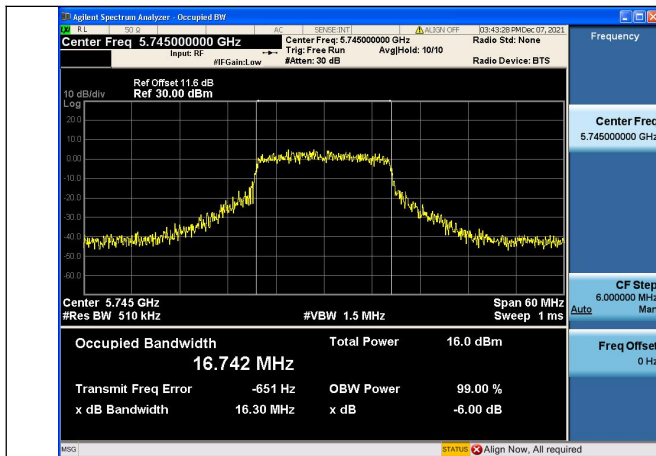
Offset 11.6dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.742	16.726	16.786
802.11n HT20	Chain0	17.936	17.918	17.940
802.11ac VHT20	Chain0	17.842	17.840	17.939

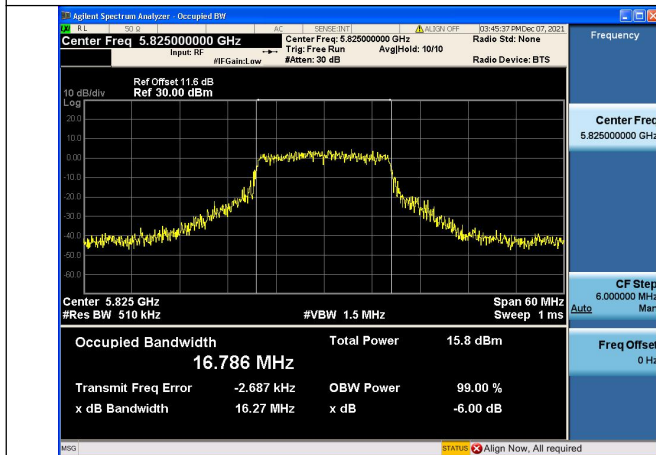
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5755MHz	---	5795MHz
802.11n HT40	Chain0	36.525	---	36.415
802.11ac VHT40	Chain0	36.509	---	36.516

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5775MHz	---	---
802.11ac VHT80	Chain0	76.365	---	---

Test Mode: 802.11a



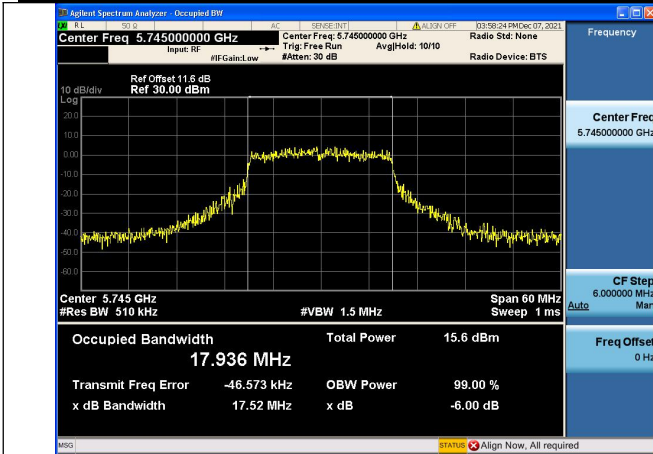
Test Mode: 802.11a 5745MHz Chain0



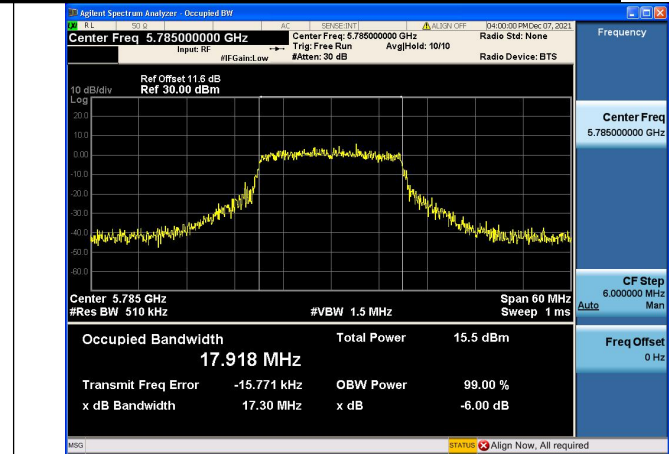
Test Mode: 802.11a 5785MHz Chain0

Test Mode: 802.11a 5825MHz Chain0

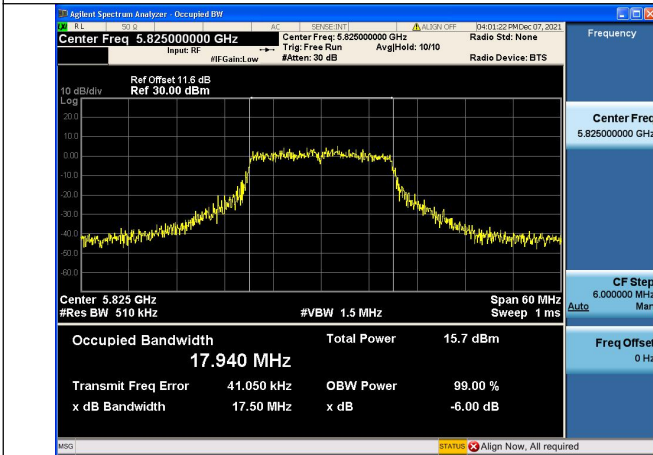
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

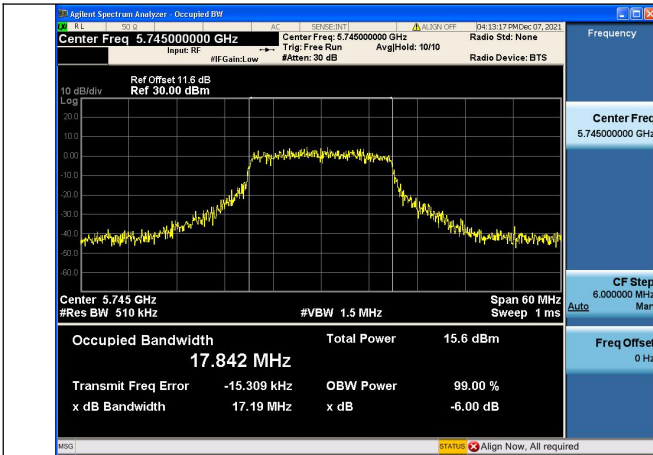


Test Mode:802.11n HT20 5785MHz Chain0

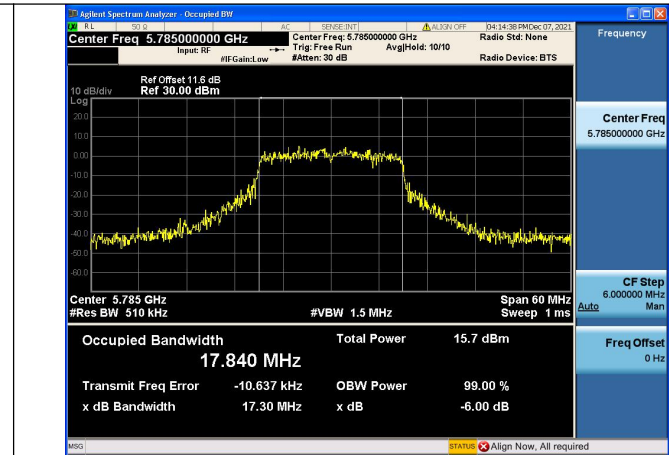


Test Mode:802.11n HT20 5825MHz Chain0

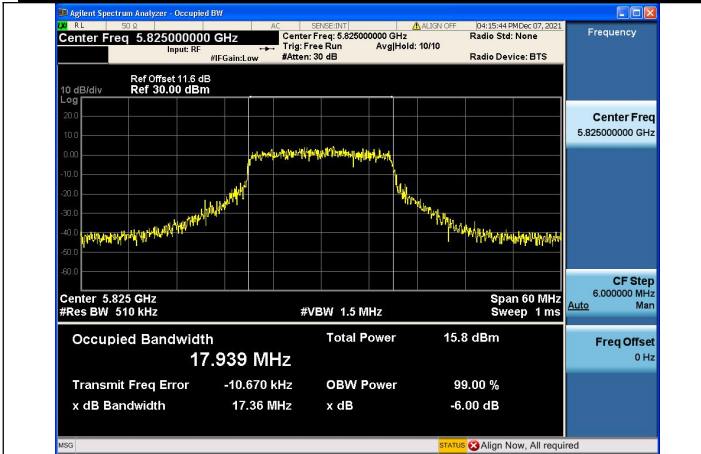
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5745MHz Chain0

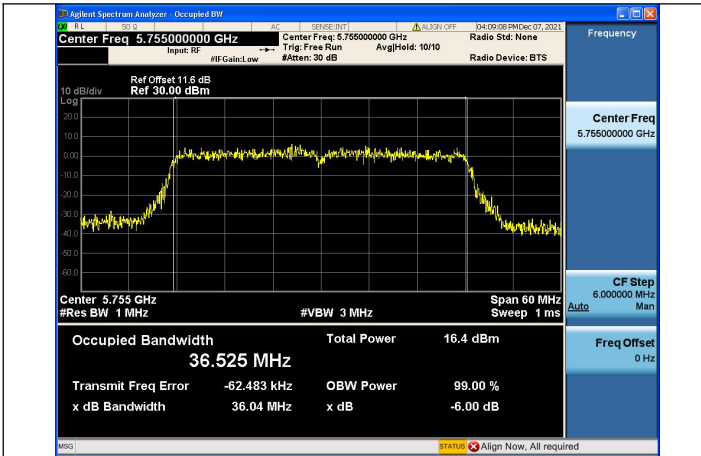


Test Mode:802.11ac VHT20 5785MHz Chain0

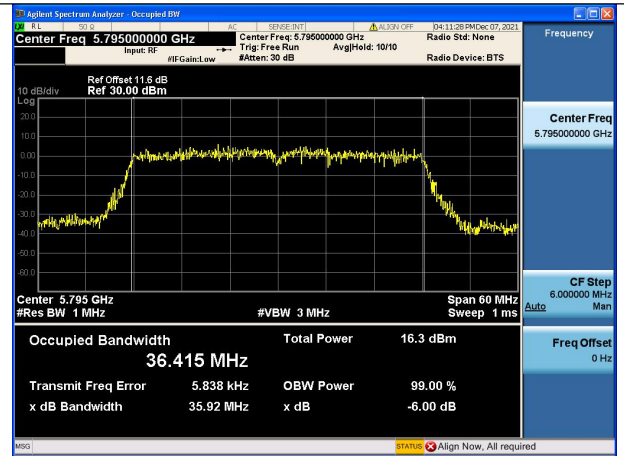


Test Mode:802.11ac VHT20 5825MHz Chain0

Test Mode: 802.11n HT40

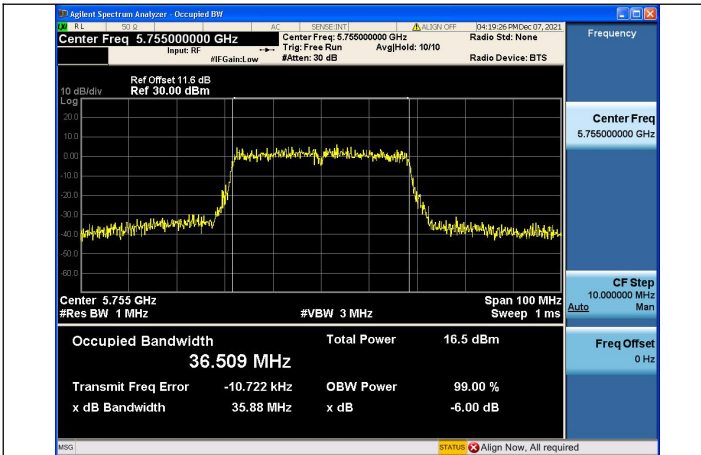


Test Mode:802.11n HT40 5755MHz Chain0

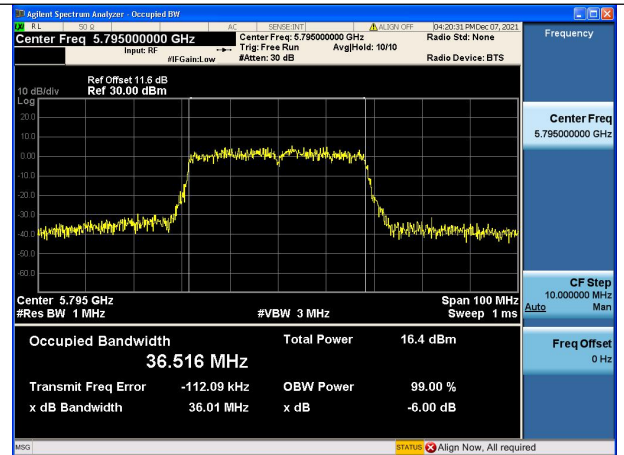


Test Mode:802.11n HT40 5795MHz Chain0

Test Mode: 802.11ac VHT40

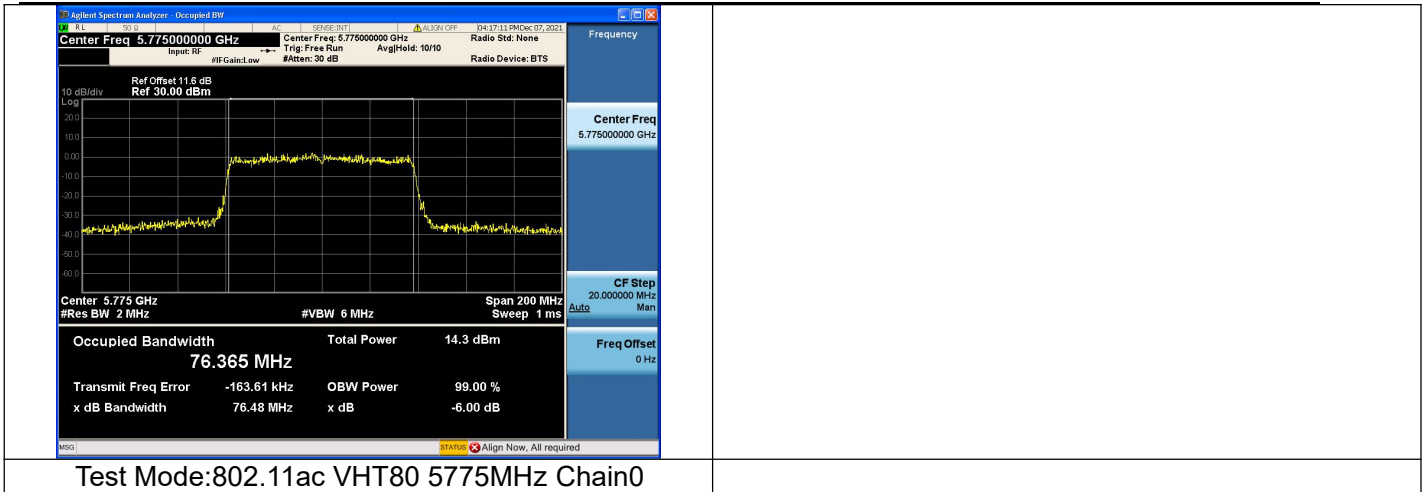


Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

Test Mode: 802.11ac VHT80



6dB Bandwidth

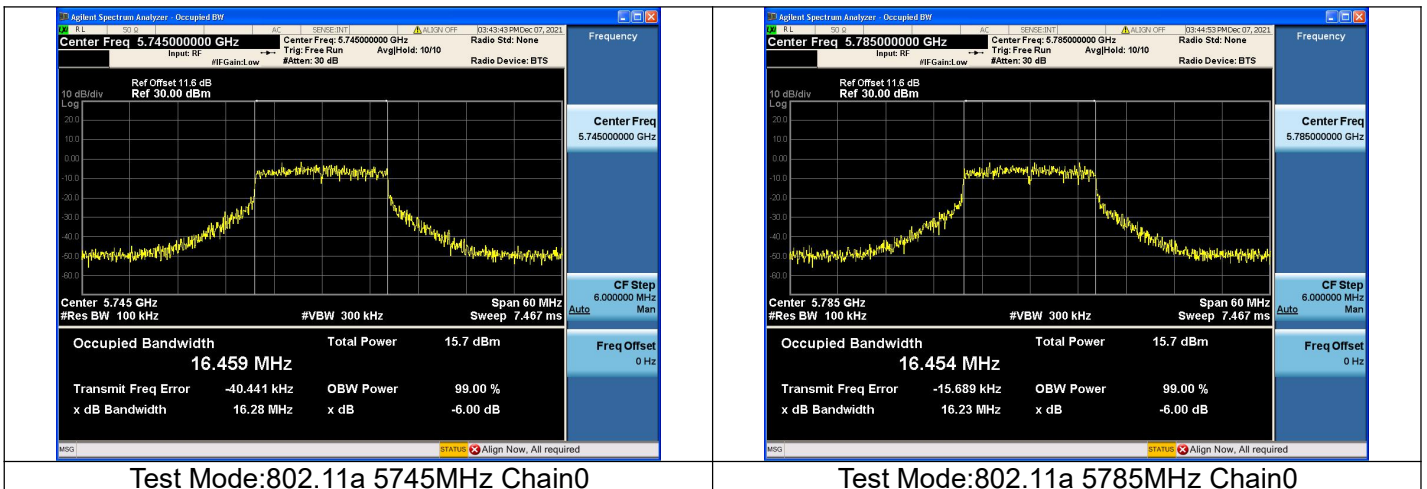
Offset 11.6dB = Attenuator + Temporary antenna connector loss + Cable loss

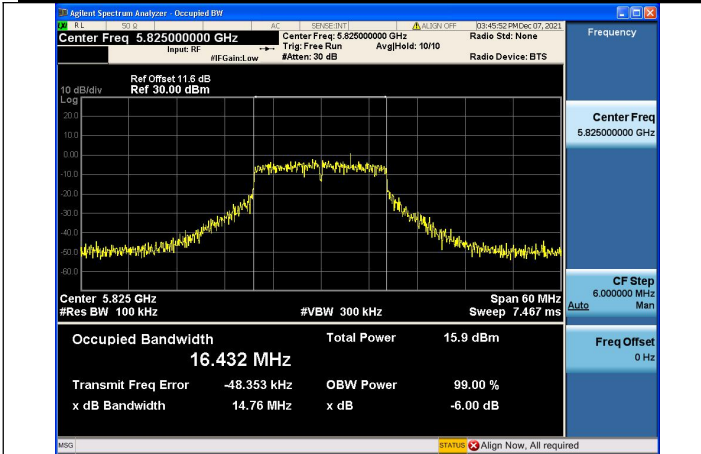
Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.0 5745MHz	Channel No.1 5785MHz	Channel No.2 5825MHz
802.11a	Chain0	16.28	16.23	14.76
802.11n HT20	Chain0	17.61	17.60	17.13
802.11ac VHT20	Chain0	17.20	17.63	17.51

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.0 5755MHz	Channel No.1 ---	Channel No.2 5795MHz
802.11n HT40	Chain0	36.26	---	36.15
802.11ac VHT40	Chain0	35.25	---	34.67

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.0 5775MHz	Channel No.1 ---	Channel No.2 ---
802.11ac VHT80	Chain0	75.77	---	---

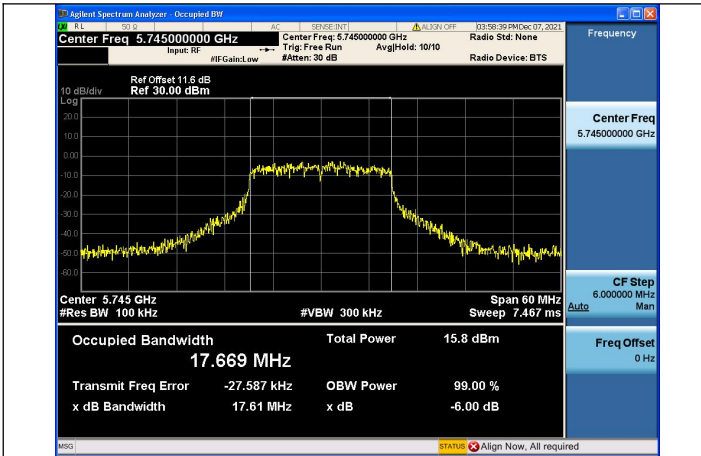
Test Mode: 802.11a



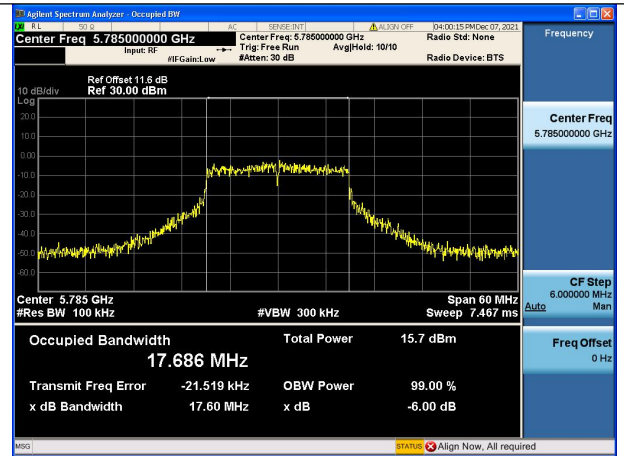


Test Mode:802.11a 5825MHz Chain0

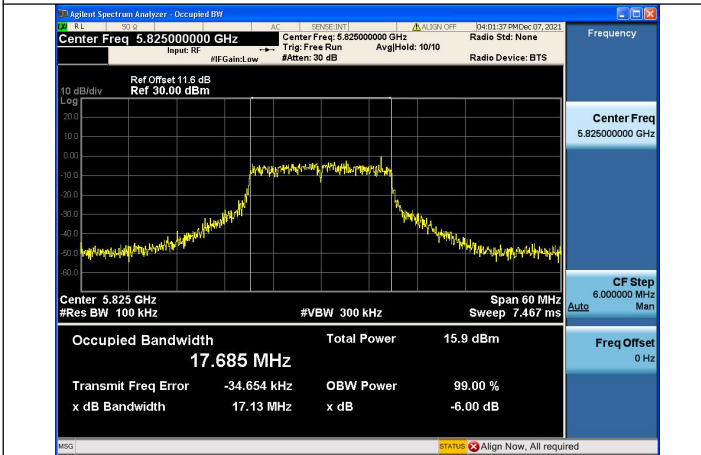
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

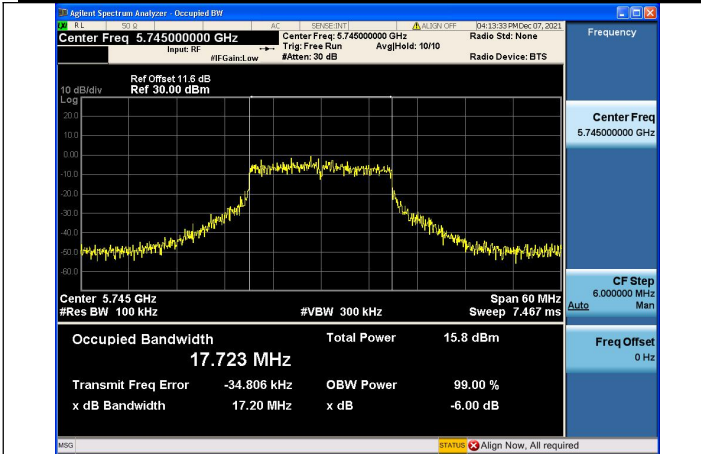


Test Mode:802.11n HT20 5785MHz Chain0

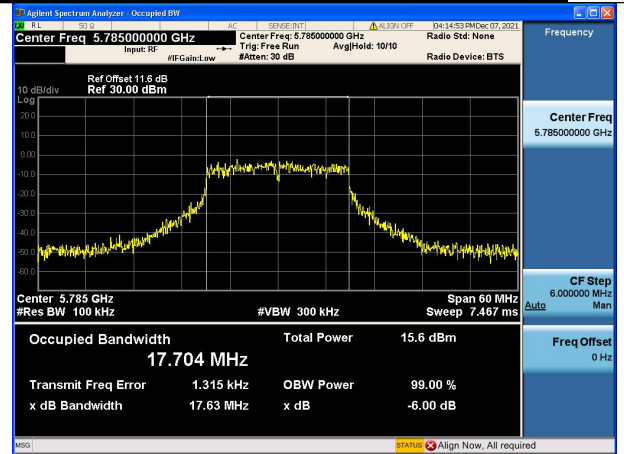


Test Mode:802.11n HT20 5825MHz Chain0

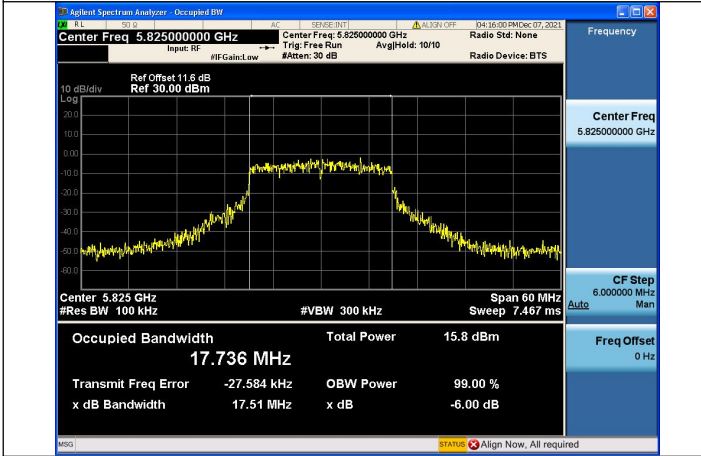
Test Mode: 802.11ac VHT20



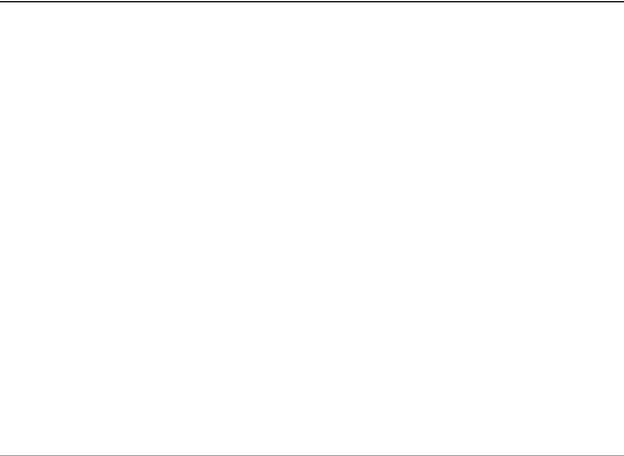
Test Mode:802.11ac VHT20 5745MHz Chain0



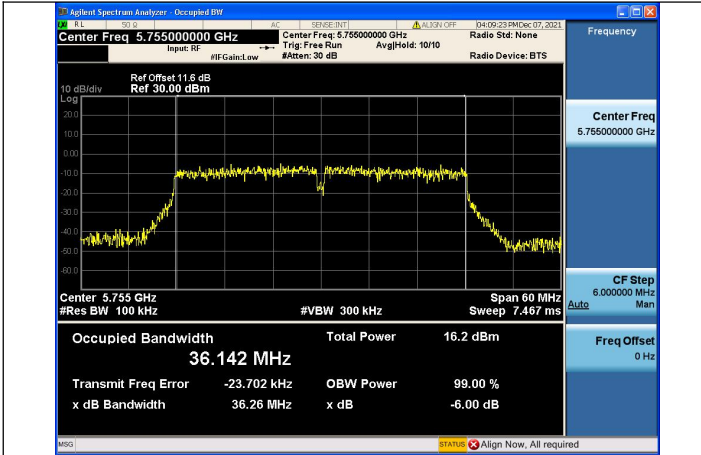
Test Mode:802.11ac VHT20 5785MHz Chain0



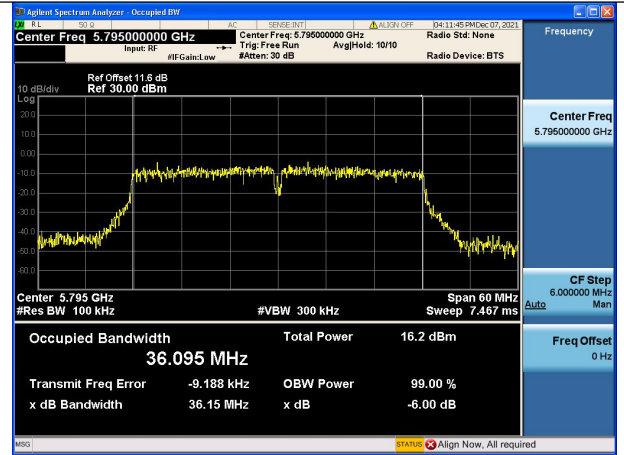
Test Mode:802.11ac VHT20 5825MHz Chain0



Test Mode: 802.11n HT40

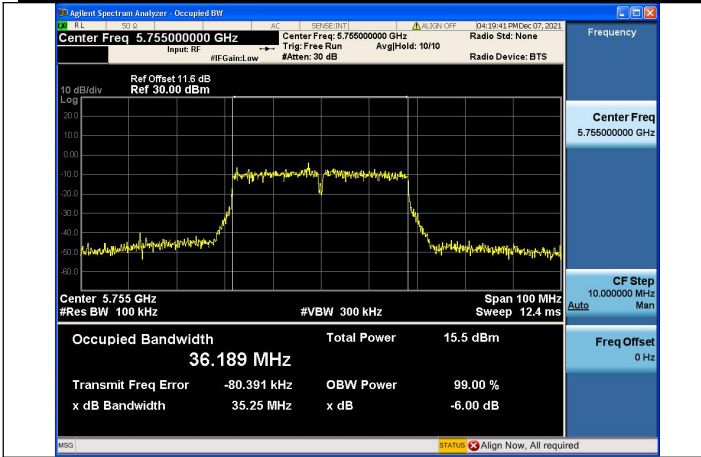


Test Mode:802.11n HT40 5755MHz Chain0

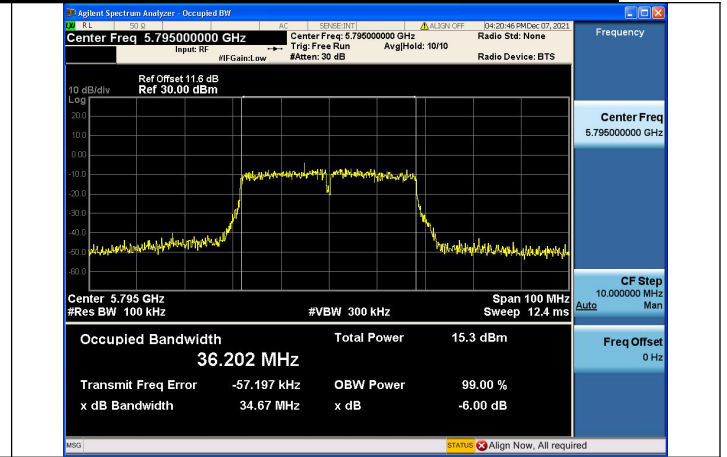


Test Mode:802.11n HT40 5795MHz Chain0

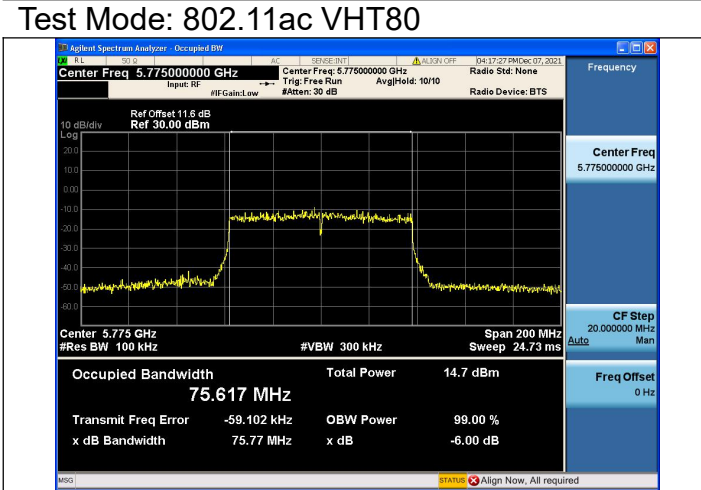
Test Mode: 802.11ac VHT40



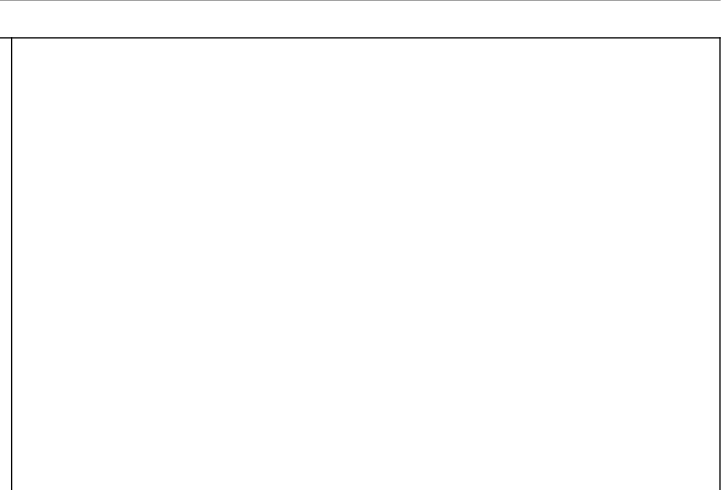
Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0



Test Mode:802.11ac VHT80 5775MHz Chain0



Transmitter Power Spectral Density

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

Test Mode	Antenna	Channel No.667		Channel No.675		Channel No.683	
		5745MHz		5785MHz		5825MHz	
		Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)
802.11a	Chain0	0	-0.813	0	-0.823	0	-0.799
802.11n HT20	Chain0	0	-1.402	0	-1.575	0	-1.237
802.11a c VHT20	Chain0	0	-1.407	0	-1.583	0	-1.504

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result.

Test Mode	Antenna	Channel No.669		Channel No.1		Channel No.677	
		5755MHz		---		5795MHz	
		Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)
802.11n HT40	Chain0	0	-4.016	---	---	0	-4.490
802.11a c VHT40	Chain0	0	-4.106	---	---	0	-4.259

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result.

Test Mode	Antenna	Channel No.673		Channel No.1		Channel No.2	
		5775MHz		---		---	
		Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)
802.11a c VHT80	Chain0	0.16	-6.530	---	---	---	---

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result.

Test Mode: 802.11a

