

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5745	99.68%	0
802.11n HT20	5745	99.61%	0
802.11ac VHT20	5745	99.57%	0
802.11n HT40	5755	99.20%	0
802.11ac VHT40	5755	99.27%	0
802.11ac VHT80	5775	98.75%	0

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	16.98	15.32
802.11a	NA	5785	Chain0	17.13	15.47
802.11a	NA	5825	Chain0	17.21	15.55
802.11n HT20	NA	5745	Chain0	17.21	15.55
802.11n HT20	NA	5785	Chain0	17.37	15.71
802.11n HT20	NA	5825	Chain0	17.46	15.80
802.11ac VHT20	NA	5745	Chain0	15.28	13.62
802.11ac VHT20	NA	5785	Chain0	15.39	13.73
802.11ac VHT20	NA	5825	Chain0	15.54	13.88
802.11n HT40	NA	5755	Chain0	16.93	15.27
802.11n HT40	NA	5795	Chain0	16.38	14.72
802.11ac VHT40	NA	5755	Chain0	14.92	13.26
802.11ac VHT40	NA	5795	Chain0	14.66	13.00
802.11ac VHT80	NA	5775	Chain0	13.66	12.00

Emission Bandwidth

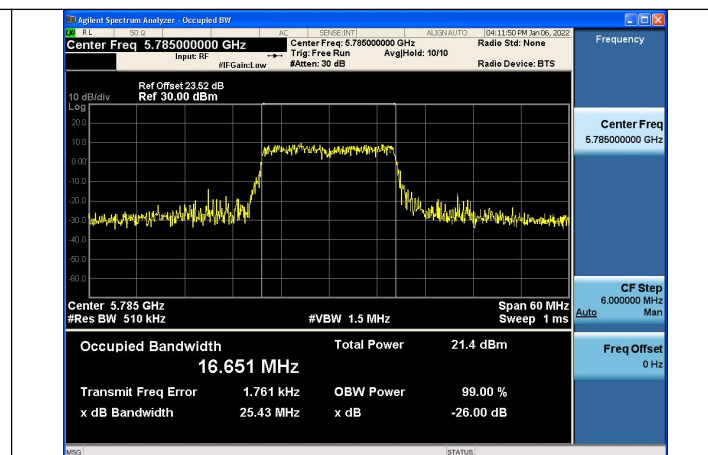
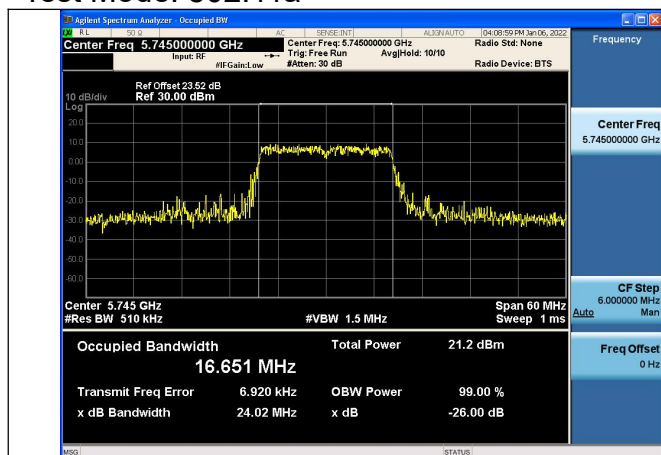
Offset 23.36 dB = Attenuator 20 dB + Temporary antenna connector loss 0.2 dB + Cable loss 3.16 dB

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	24.02	25.43	24.15
802.11n HT20	Chain0	37.10	22.97	28.62
802.11ac VHT20	Chain0	37.33	27.60	28.13

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	47.29	---	51.50
802.11ac VHT40	Chain0	48.14	---	41.21

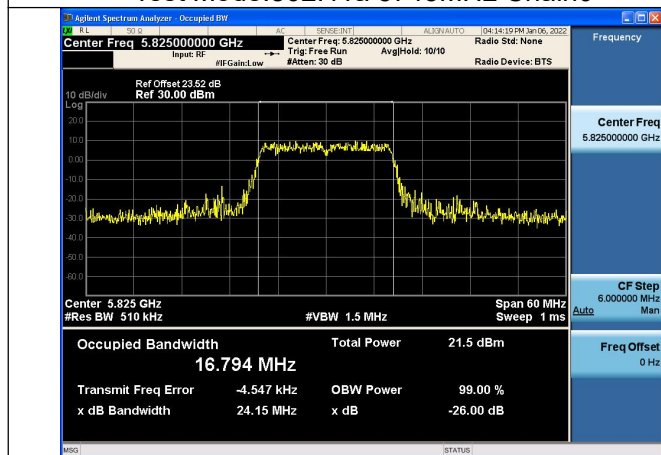
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	83.31	---	---

Test Mode: 802.11a



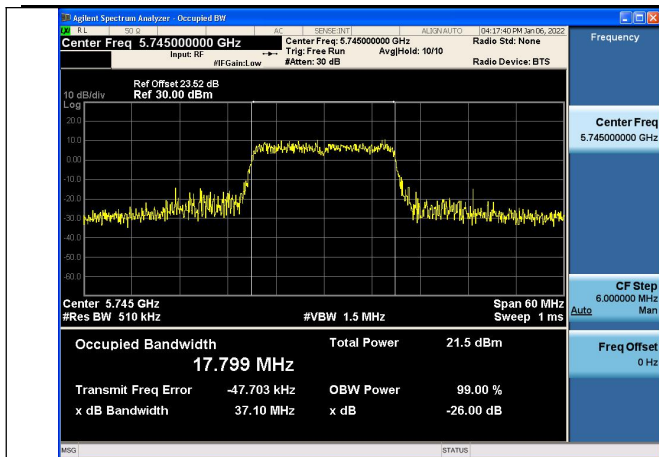
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0

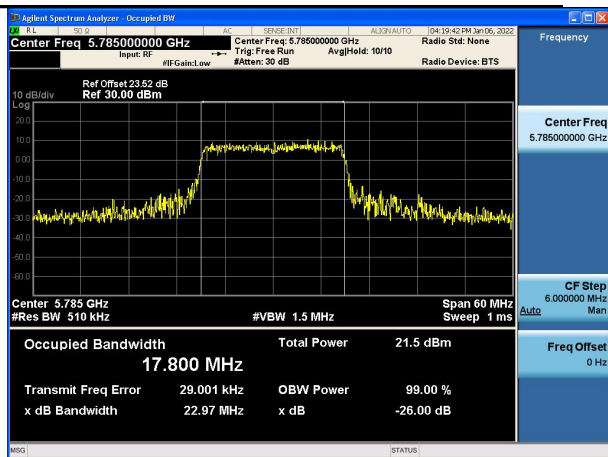


Test Mode:802.11a 5825MHz Chain0

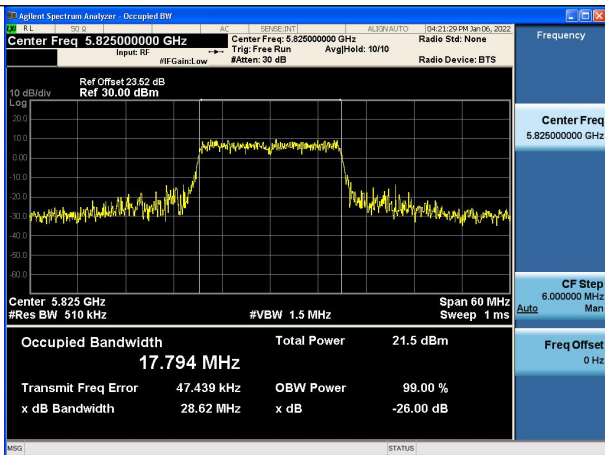
Test Mode: 802.11n HT20



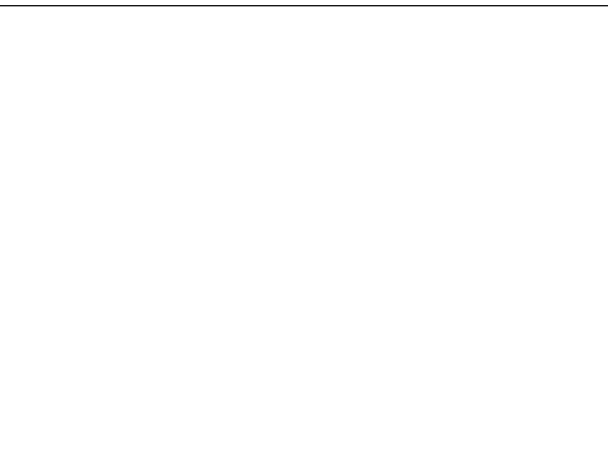
Test Mode:802.11n HT20 5745MHz Chain0



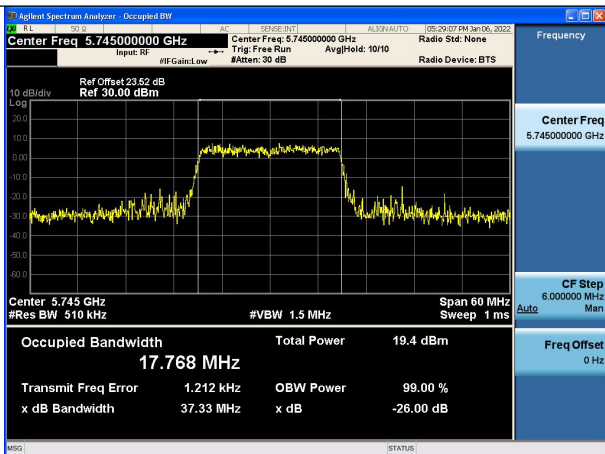
Test Mode:802.11n HT20 5785MHz Chain0



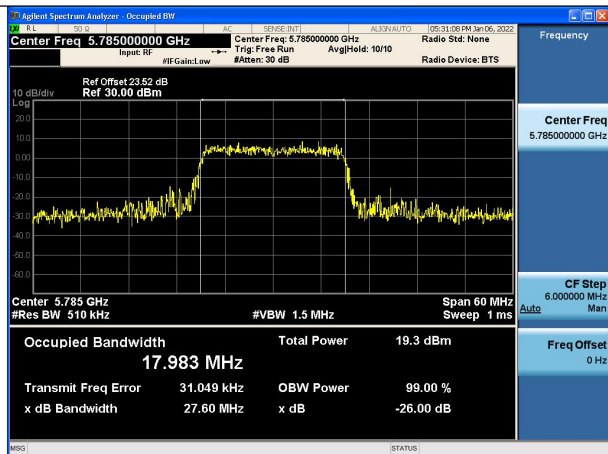
Test Mode:802.11n HT20 5825MHz Chain0



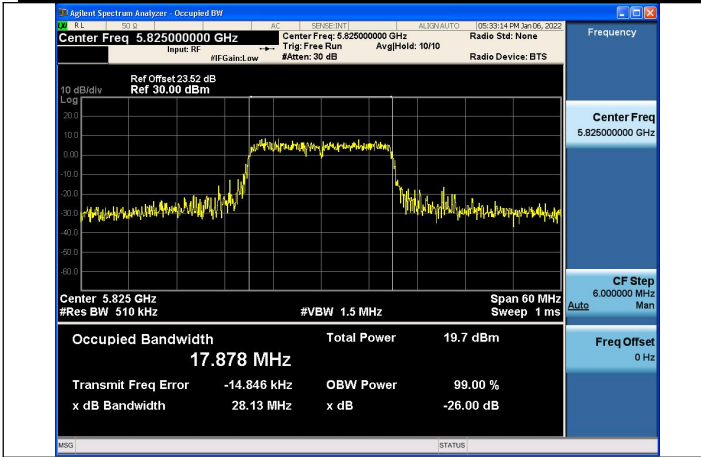
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5745MHz Chain0

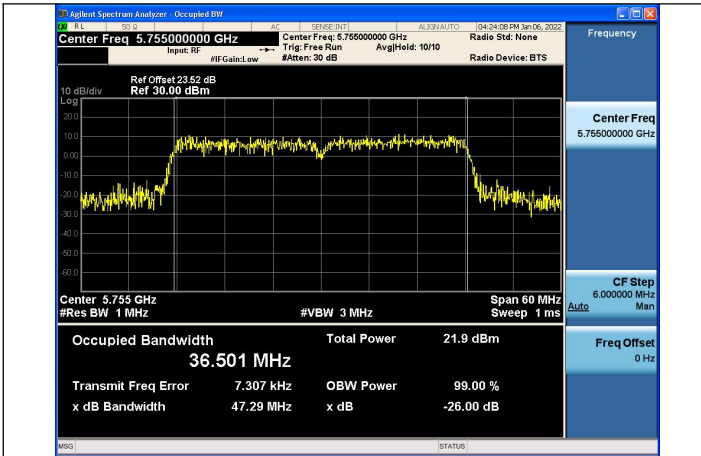


Test Mode:802.11ac VHT20 5785MHz Chain0



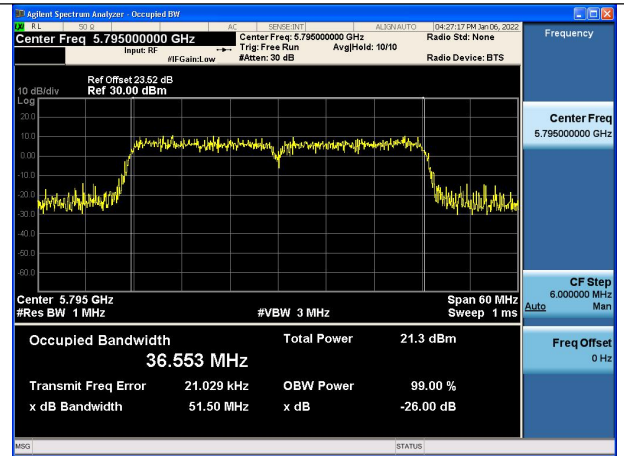
Test Mode:802.11ac VHT20 5825MHz Chain0

Test Mode: 802.11n HT40

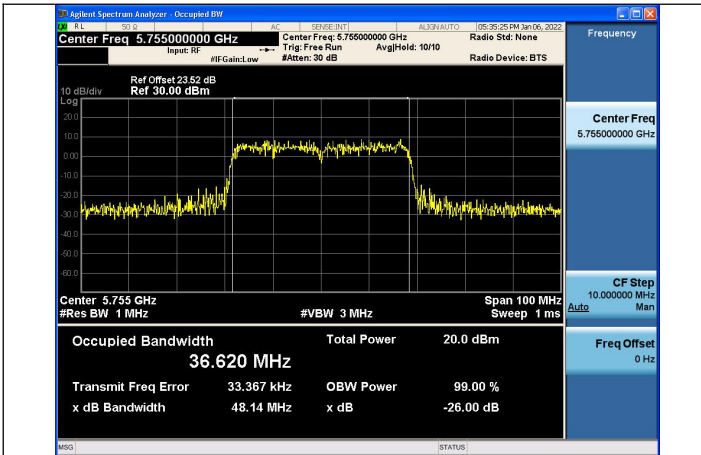


Test Mode:802.11n HT40 5755MHz Chain0

Test Mode: 802.11ac VHT40

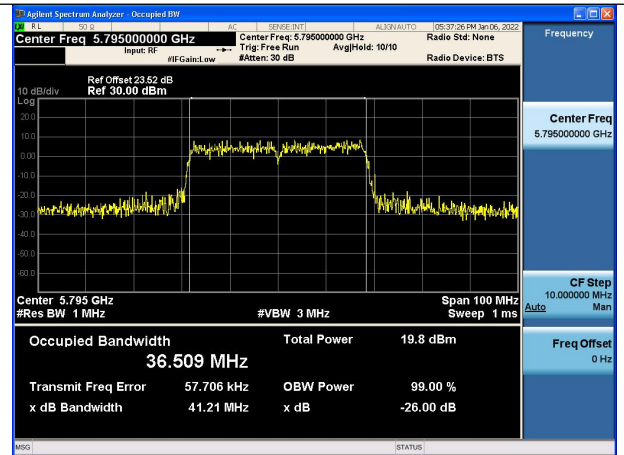


Test Mode:802.11n HT40 5795MHz Chain0

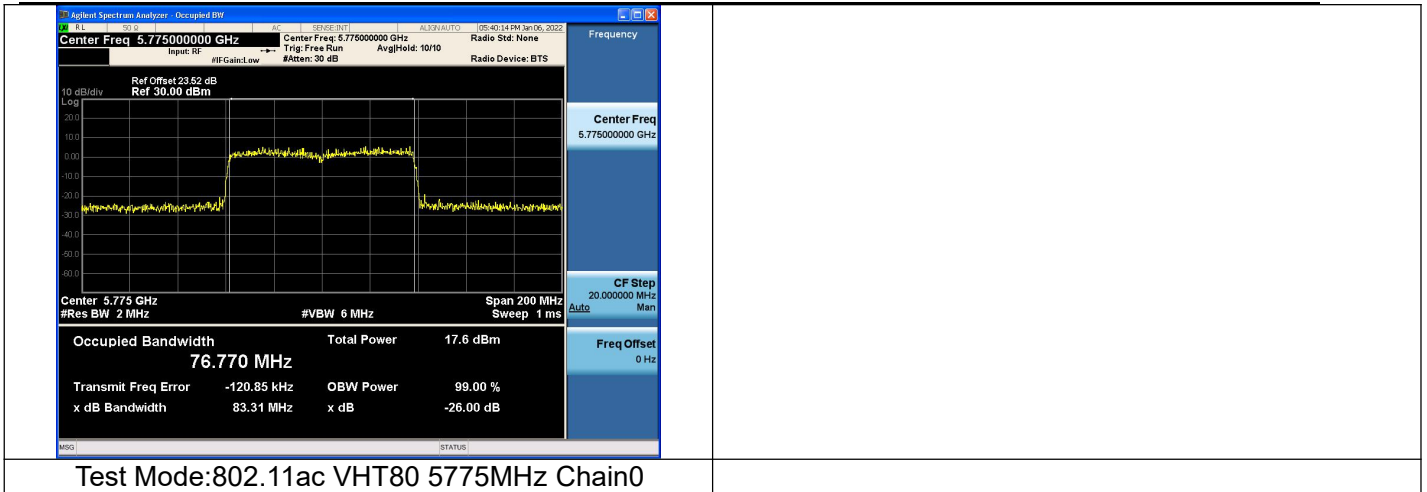


Test Mode:802.11ac VHT40 5755MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT40 5795MHz Chain0



Occupied Bandwidth

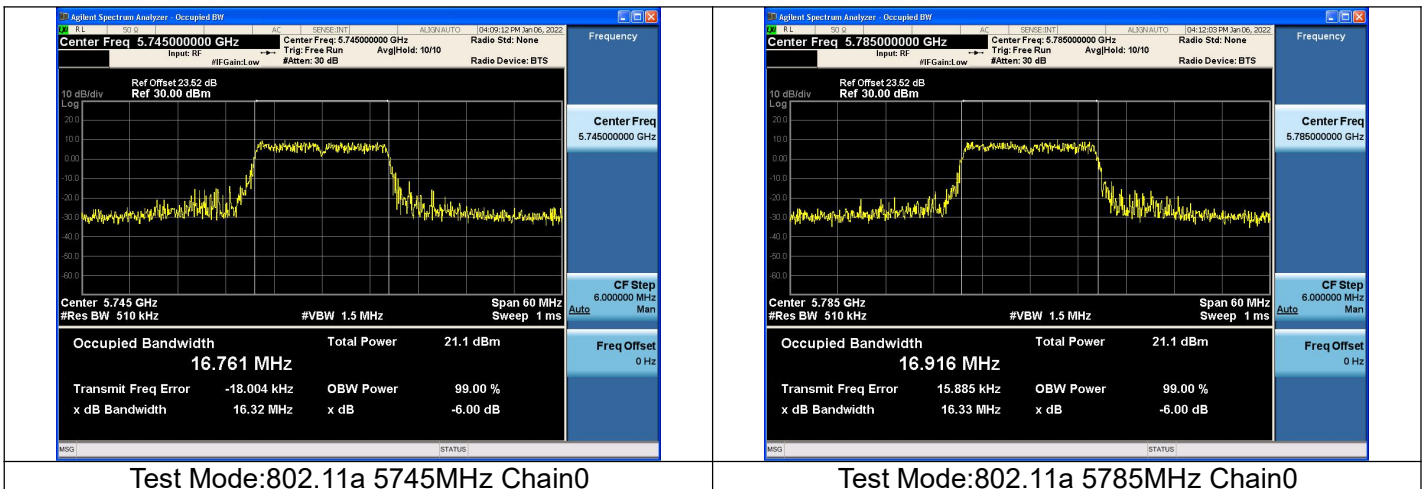
Offset 23.36 dB = Attenuator 20 dB + Temporary antenna connector loss 0.2 dB + Cable loss 3.16 dB

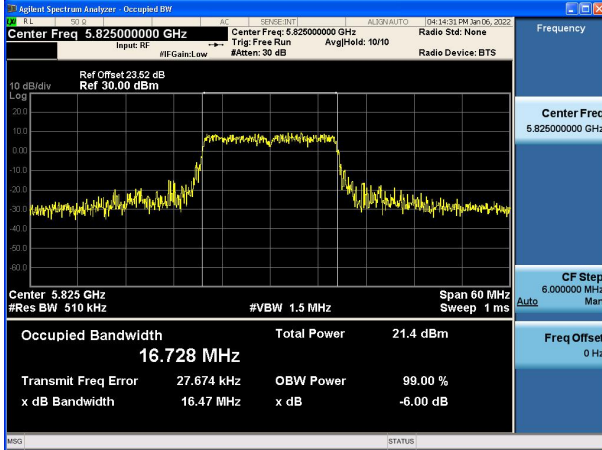
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.667 5745MHz	Channel No.675 5785MHz	Channel No.683 5825MHz
802.11a	Chain0	16.761	16.916	16.728
802.11n HT20	Chain0	17.763	17.728	17.792
802.11ac VHT20	Chain0	17.769	17.846	17.869

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.669 5755MHz	---	Channel No.677 5795MHz
802.11n HT40	Chain0	36.298	---	36.428
802.11ac VHT40	Chain0	36.519	---	36.519

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.673 5775MHz	---	---
802.11ac VHT80	Chain0	76.479	---	---

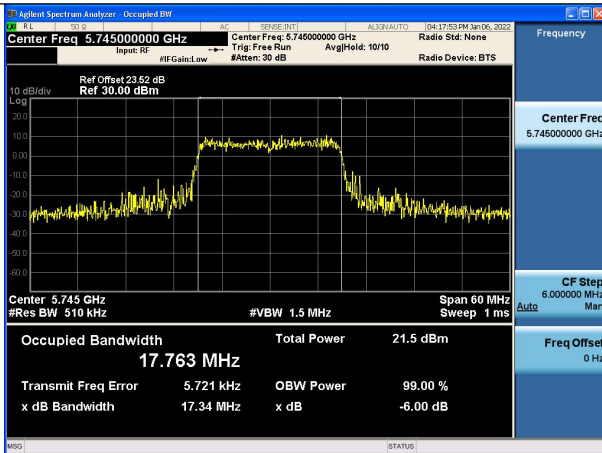
Test Mode: 802.11a



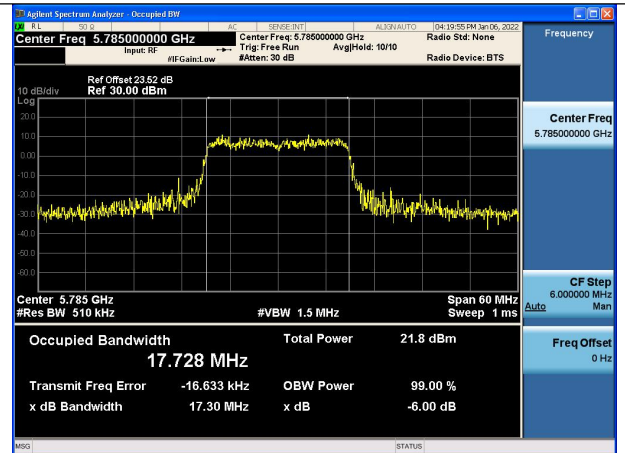


Test Mode:802.11a 5825MHz Chain0

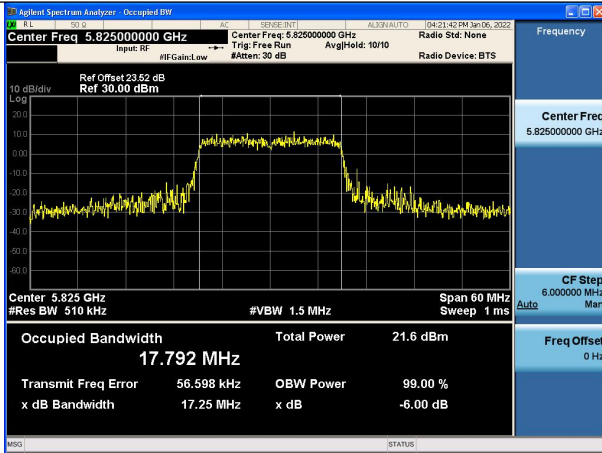
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

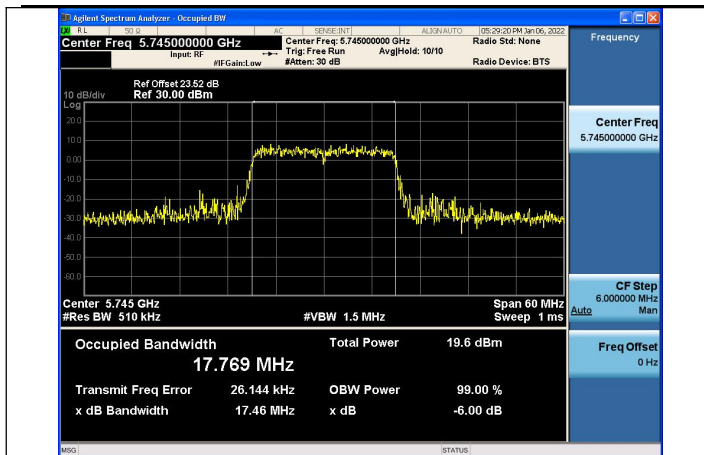


Test Mode:802.11n HT20 5785MHz Chain0

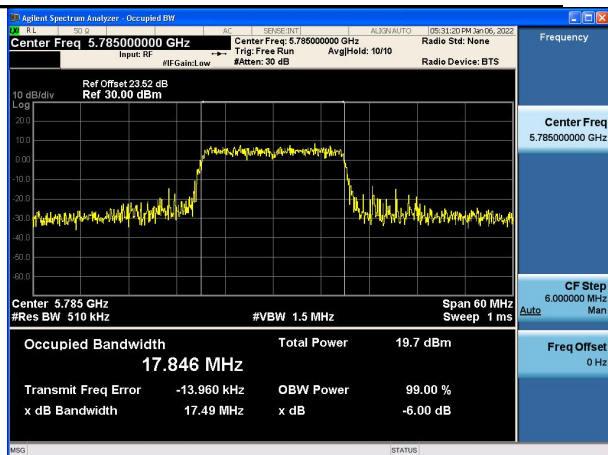


Test Mode:802.11n HT20 5825MHz Chain0

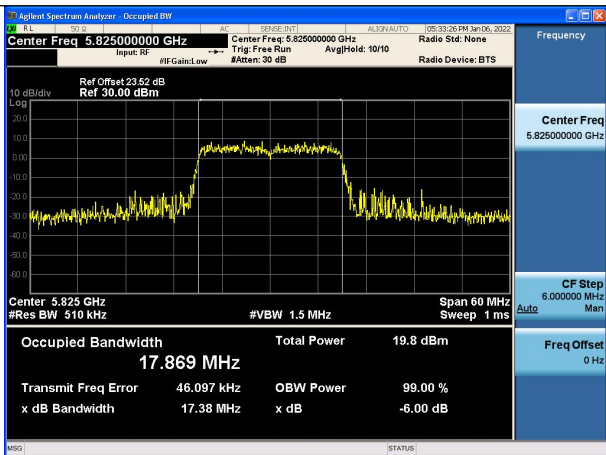
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5745MHz Chain0

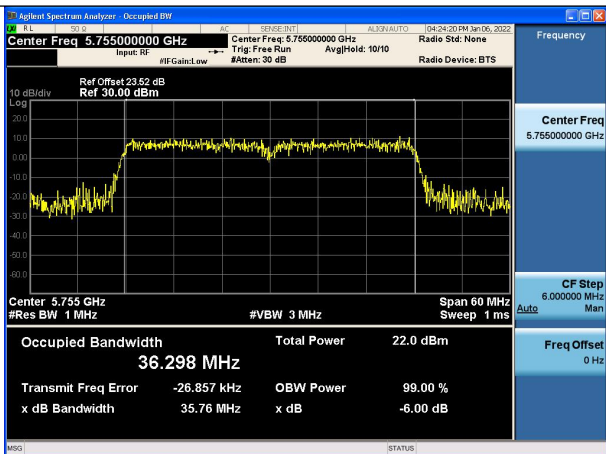


Test Mode:802.11ac VHT20 5785MHz Chain0

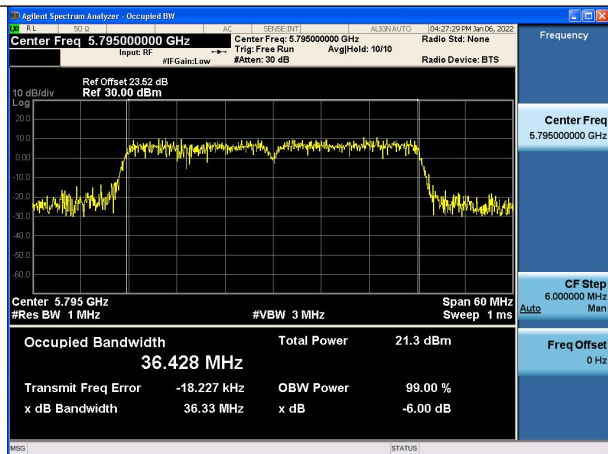


Test Mode:802.11ac VHT20 5825MHz Chain0

Test Mode: 802.11n HT40

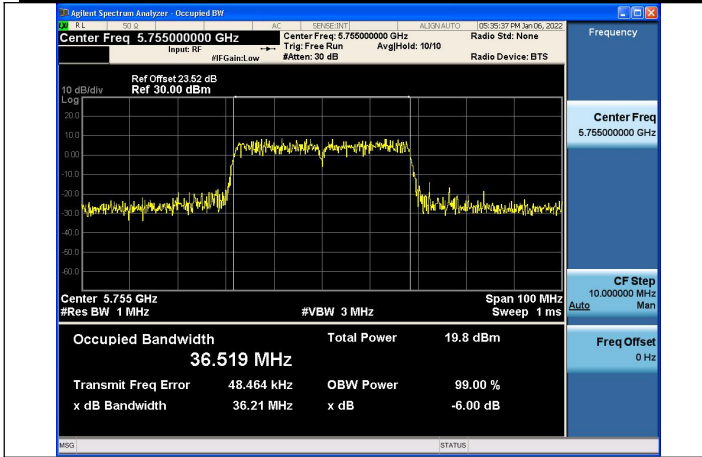


Test Mode:802.11n HT40 5755MHz Chain0

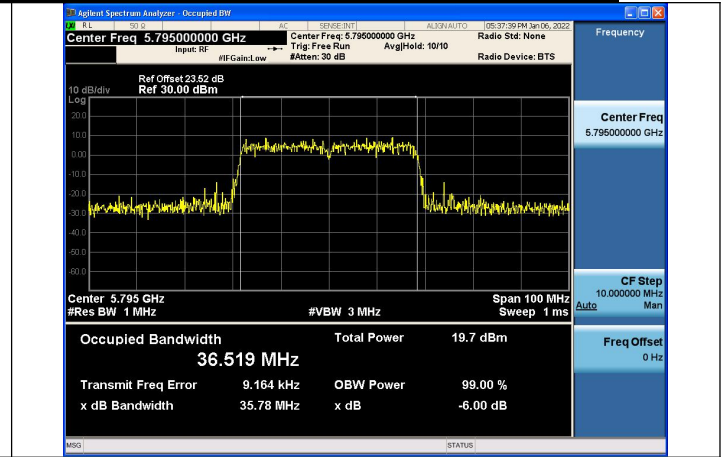


Test Mode:802.11n HT40 5795MHz Chain0

Test Mode: 802.11ac VHT40

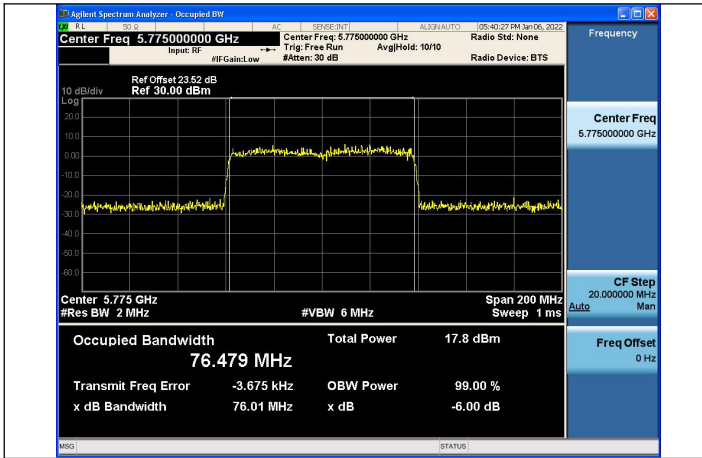


Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0

6dB Bandwidth

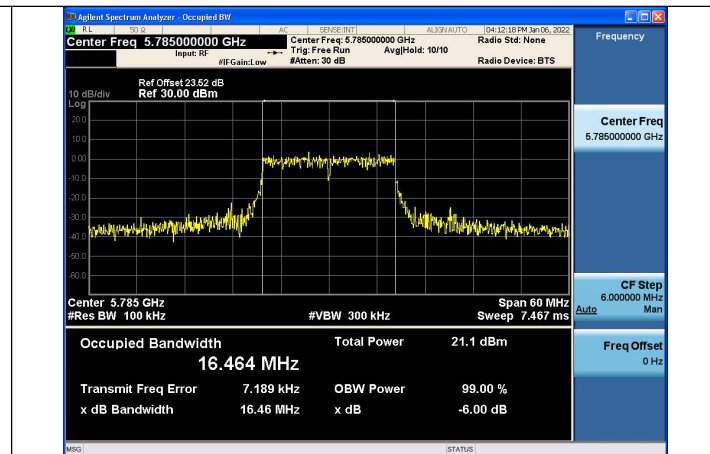
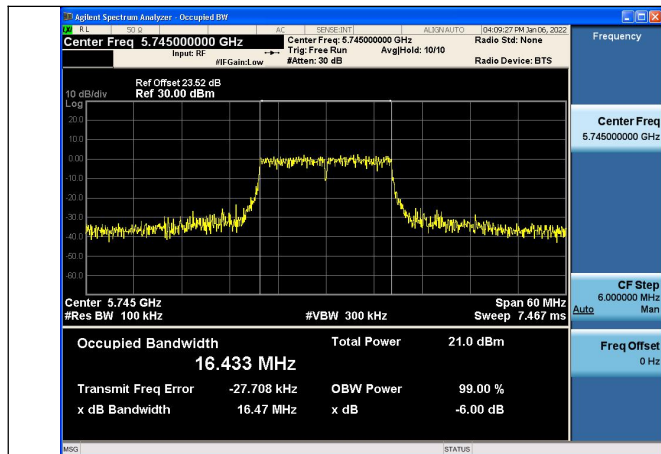
Offset 23.36 dB = Attenuator 20 dB + Temporary antenna connector loss 0.2 dB + Cable loss 3.16 dB

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.47	16.46	16.44
802.11n HT20	Chain0	16.41	17.63	17.51
802.11ac VHT20	Chain0	17.74	17.46	17.54

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	35.75	---	35.84
802.11ac VHT40	Chain0	36.40	---	36.06

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	75.88	---	---

Test Mode: 802.11a



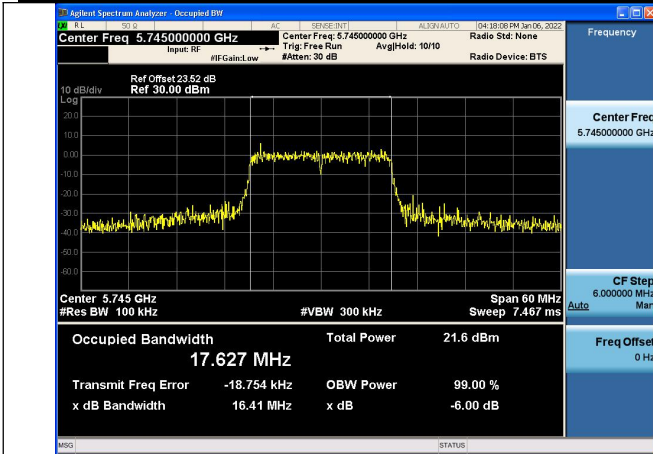
Test Mode: 802.11a 5745MHz Chain0

Test Mode: 802.11a 5785MHz Chain0

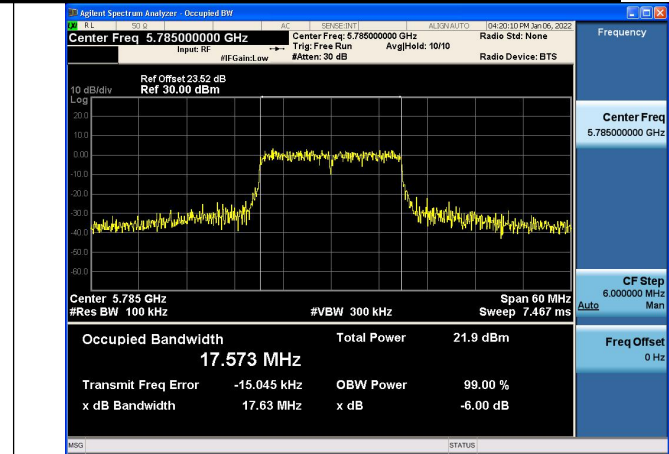


Test Mode: 802.11a 5825MHz Chain0

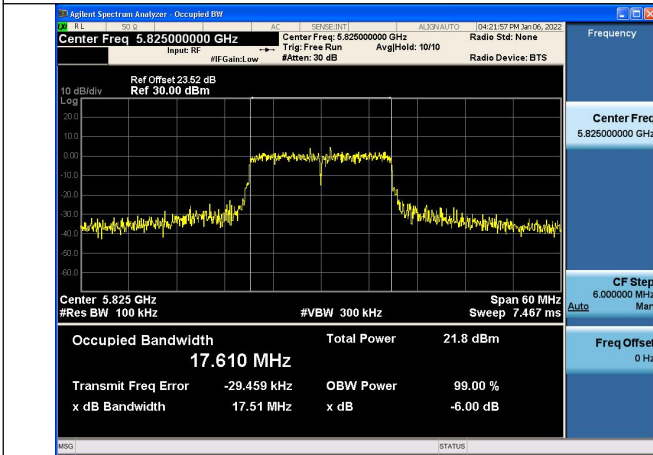
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

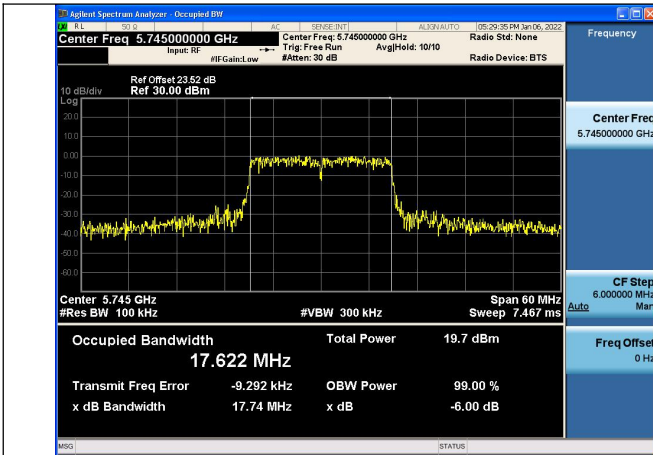


Test Mode:802.11n HT20 5785MHz Chain0

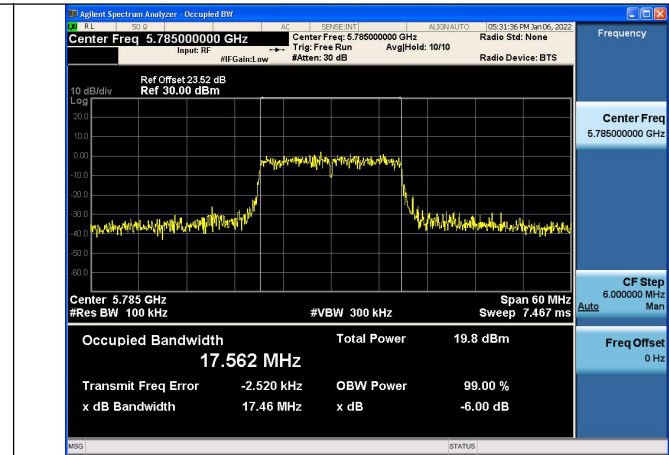


Test Mode:802.11n HT20 5825MHz Chain0

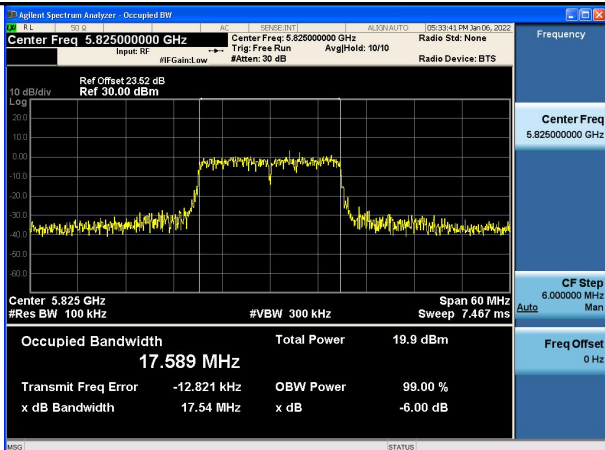
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5745MHz Chain0

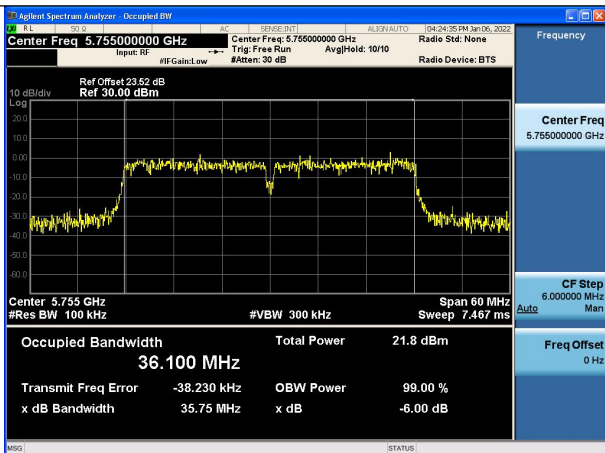


Test Mode:802.11ac VHT20 5785MHz Chain0



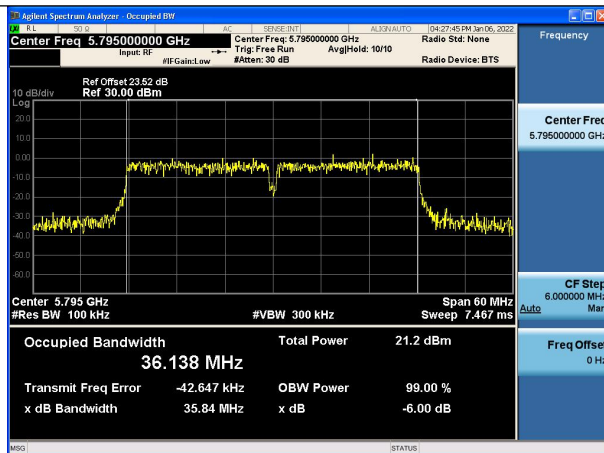
Test Mode:802.11ac VHT20 5825MHz Chain0

Test Mode: 802.11n HT40

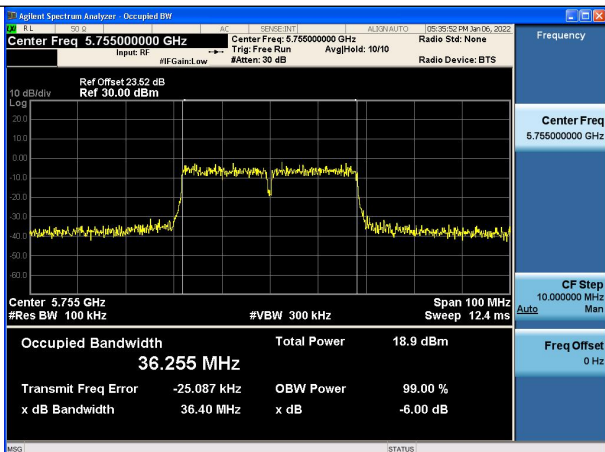


Test Mode:802.11n HT40 5755MHz Chain0

Test Mode: 802.11ac VHT40

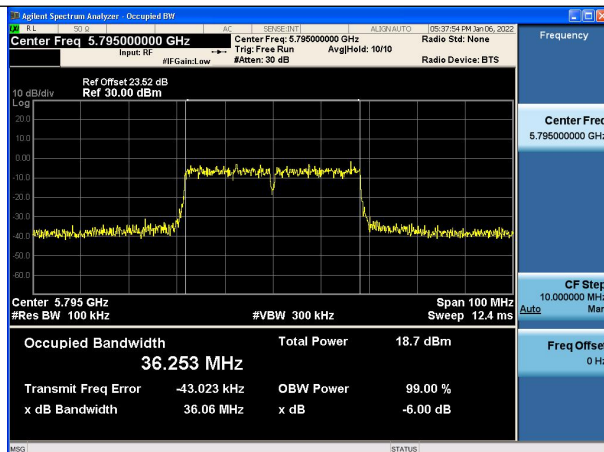


Test Mode:802.11n HT40 5795MHz Chain0

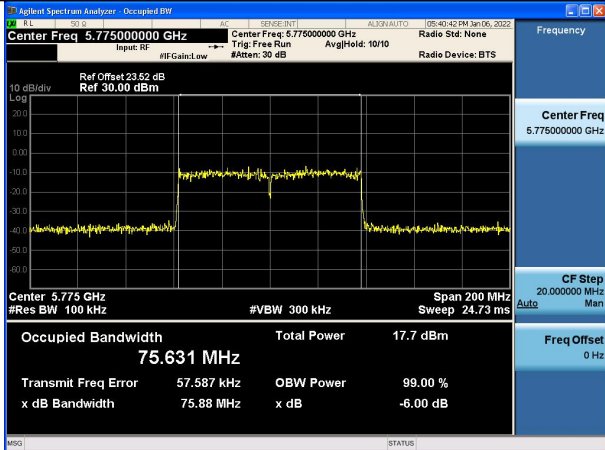


Test Mode:802.11ac VHT40 5755MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT40 5795MHz Chain0



Test Mode:802.11ac VHT80 5775MHz Chain0