

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5745	98.81%	0
802.11a	5745	98.70%	0
802.11n HT20	5745	98.67%	0
802.11n HT20	5745	98.70%	0
802.11ac VHT20	5745	98.70%	0
802.11ac VHT20	5745	98.60%	0
802.11n HT40	5755	97.33%	0.12
802.11n HT40	5755	97.29%	0.12
802.11ac VHT40	5755	97.34%	0.12
802.11ac VHT40	5755	97.34%	0.12
802.11ac VHT80	5775	95.11%	0.22
802.11ac VHT80	5775	95.02%	0.22

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	16.31	20.38
802.11a	NA	5745	Chain1	16.59	20.66
802.11a	NA	5785	Chain0	16.62	20.69
802.11a	NA	5785	Chain1	16.89	20.96
802.11a	NA	5825	Chain0	16.30	20.37
802.11a	NA	5825	Chain1	16.71	20.78
802.11n HT20	NA	5745	Chain0	16.17	20.24
802.11n HT20	NA	5745	Chain1	16.40	20.47
802.11n HT20	NA	5745	MIMO	19.30	23.37
802.11n HT20	NA	5785	Chain0	16.63	20.70
802.11n HT20	NA	5785	Chain1	16.66	20.73
802.11n HT20	NA	5785	MIMO	19.66	23.73
802.11n HT20	NA	5825	Chain0	16.11	20.18
802.11n HT20	NA	5825	Chain1	16.57	20.64
802.11n HT20	NA	5825	MIMO	19.36	23.43
802.11ac VHT20	NA	5745	Chain0	16.18	20.25
802.11ac VHT20	NA	5745	Chain1	16.40	20.47
802.11ac VHT20	NA	5745	MIMO	19.30	23.37
802.11ac VHT20	NA	5785	Chain0	16.57	20.64
802.11ac VHT20	NA	5785	Chain1	16.73	20.80
802.11ac VHT20	NA	5785	MIMO	19.66	23.73
802.11ac VHT20	NA	5825	Chain0	16.17	20.24
802.11ac VHT20	NA	5825	Chain1	16.60	20.67

802.11ac VHT20	NA	5825	MIMO	19.40	23.47
802.11n HT40	NA	5755	Chain0	16.33	20.40
802.11n HT40	NA	5755	Chain1	16.54	20.61
802.11n HT40	NA	5755	MIMO	19.45	23.52
802.11n HT40	NA	5795	Chain0	16.49	20.56
802.11n HT40	NA	5795	Chain1	16.71	20.78
802.11n HT40	NA	5795	MIMO	19.61	23.68
802.11ac VHT40	NA	5755	Chain0	16.35	20.42
802.11ac VHT40	NA	5755	Chain1	16.61	20.68
802.11ac VHT40	NA	5755	MIMO	19.49	23.56
802.11ac VHT40	NA	5795	Chain0	16.46	20.53
802.11ac VHT40	NA	5795	Chain1	16.73	20.80
802.11ac VHT40	NA	5795	MIMO	19.61	23.68
802.11ac VHT80	NA	5775	Chain0	16.08	20.15
802.11ac VHT80	NA	5775	Chain1	16.30	20.37
802.11ac VHT80	NA	5775	MIMO	19.20	23.27

Emission Bandwidth

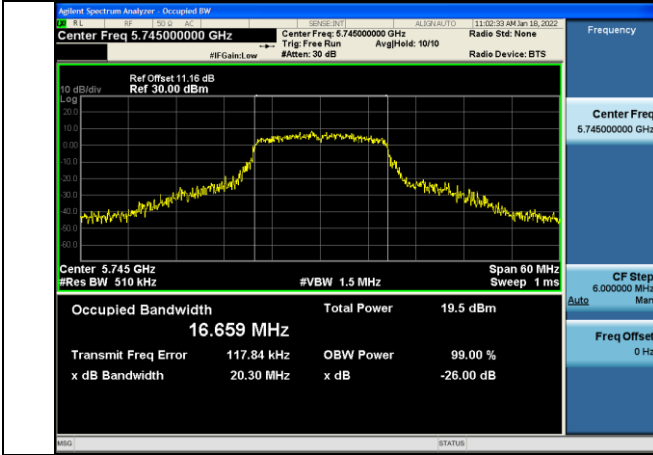
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	20.30	19.56	19.95
802.11a	Chain1	19.93	19.96	20.33
802.11n HT20	Chain0	20.37	20.21	20.66
802.11n HT20	Chain1	20.25	20.15	20.25
802.11ac VHT20	Chain0	20.40	20.64	20.24
802.11ac VHT20	Chain1	19.89	20.04	20.14

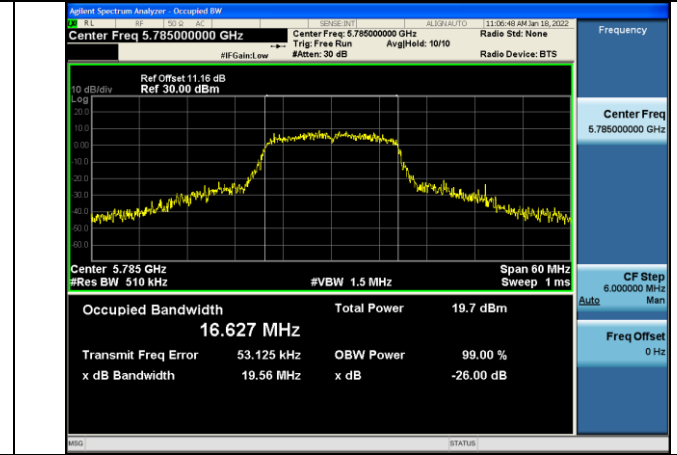
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	42.84	---	40.56
802.11n HT40	Chain1	40.99	---	40.78
802.11ac VHT40	Chain0	40.68	---	40.42
802.11ac VHT40	Chain1	40.36	---	39.59

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	80.98	---	---
802.11ac VHT80	Chain1	81.78	---	---

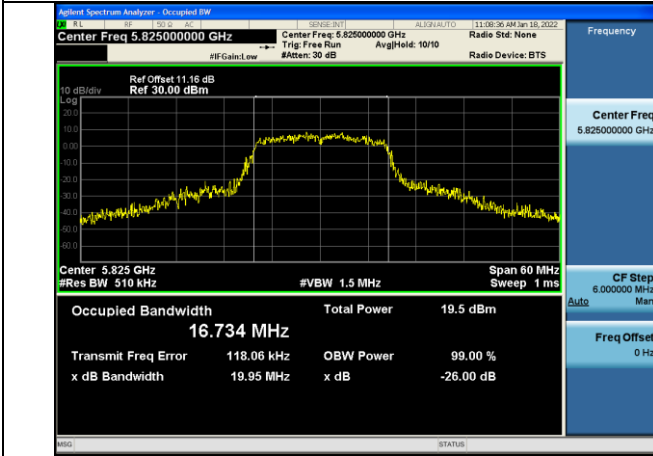
Test Mode: 802.11a



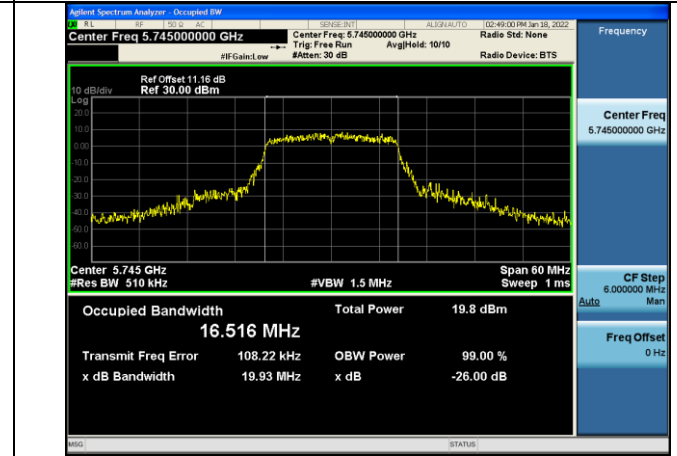
Test Mode:802.11a 5745MHz Chain0



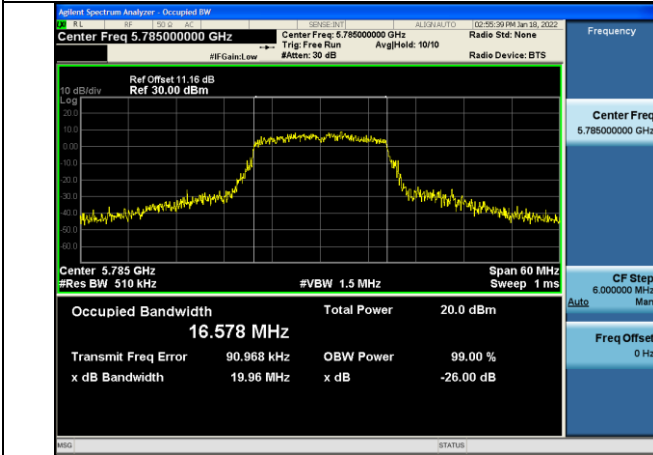
Test Mode:802.11a 5785MHz Chain0



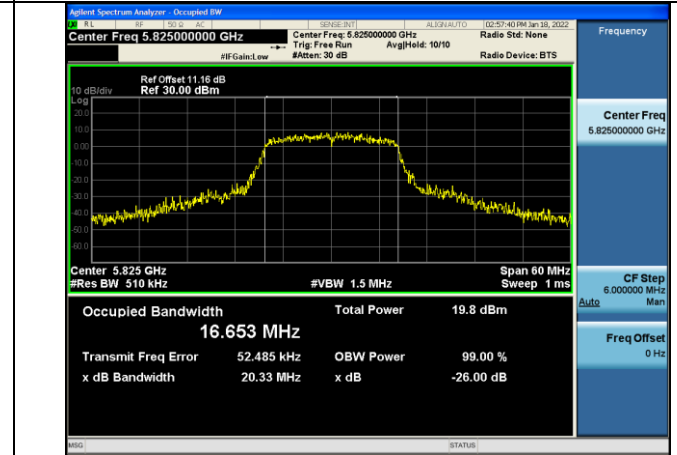
Test Mode:802.11a 5825MHz Chain0



Test Mode:802.11a 5745MHz Chain1

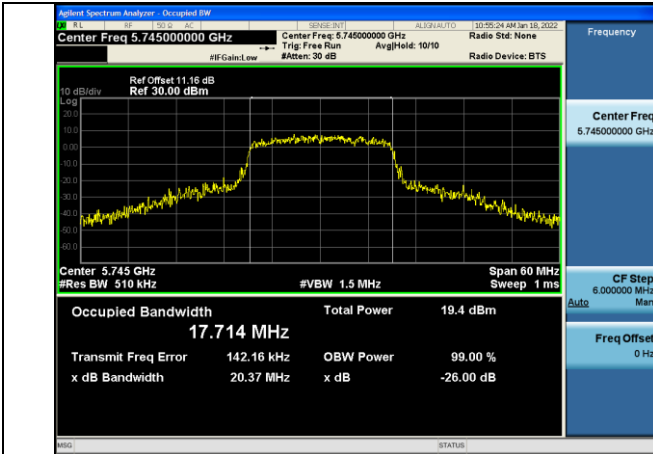


Test Mode:802.11a 5785MHz Chain1

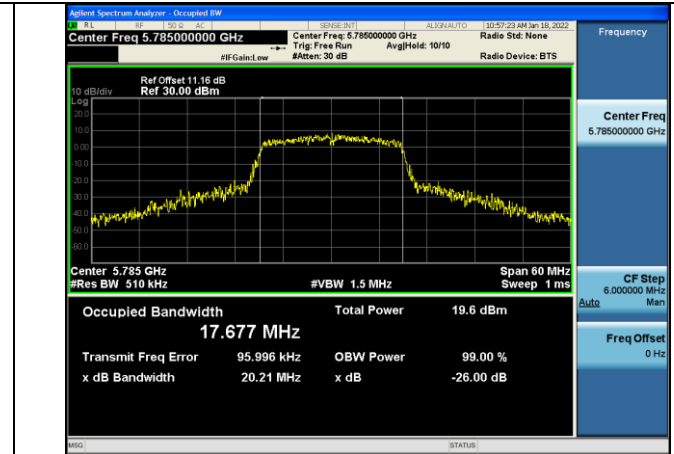


Test Mode:802.11a 5825MHz Chain1

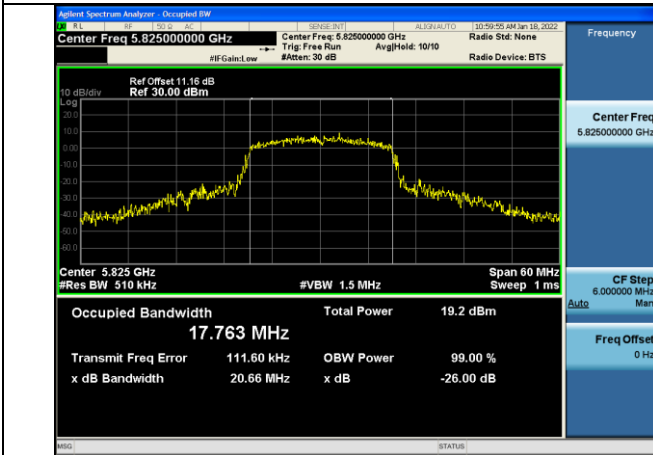
Test Mode: 802.11n HT20



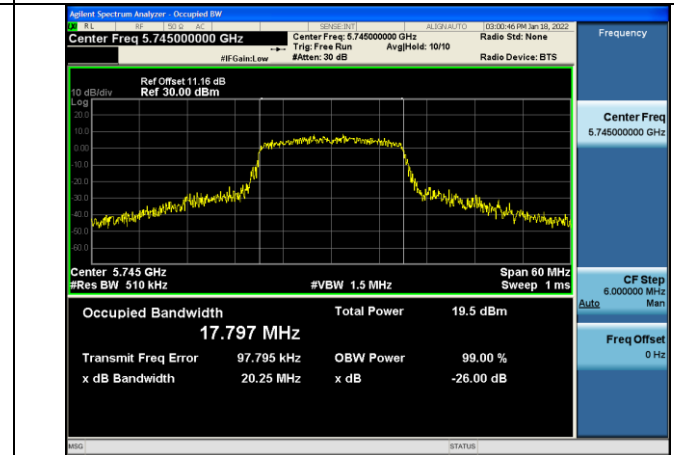
Test Mode:802.11n HT20 5745MHz Chain0



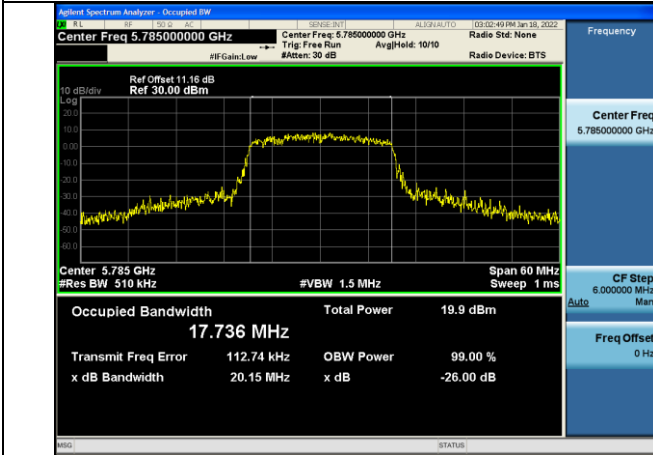
Test Mode:802.11n HT20 5785MHz Chain0



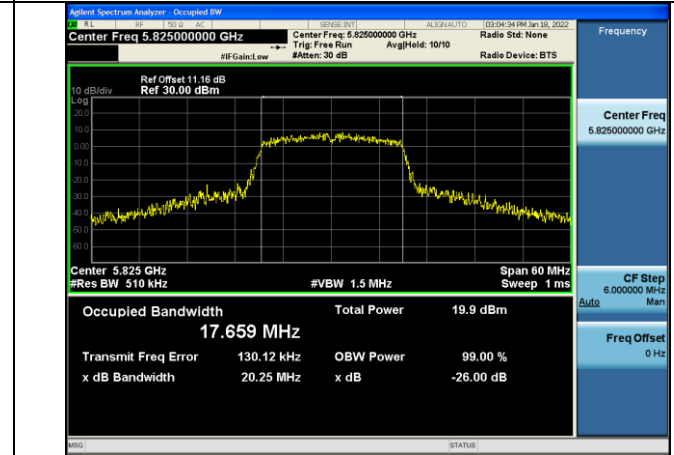
Test Mode:802.11n HT20 5825MHz Chain0



Test Mode:802.11n HT20 5745MHz Chain1

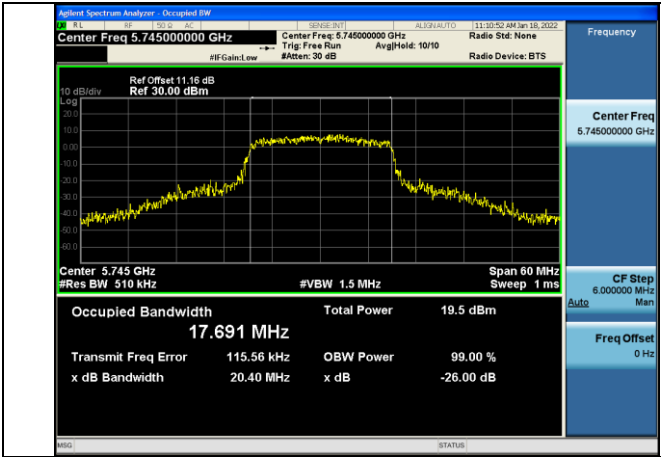


Test Mode:802.11n HT20 5785MHz Chain1

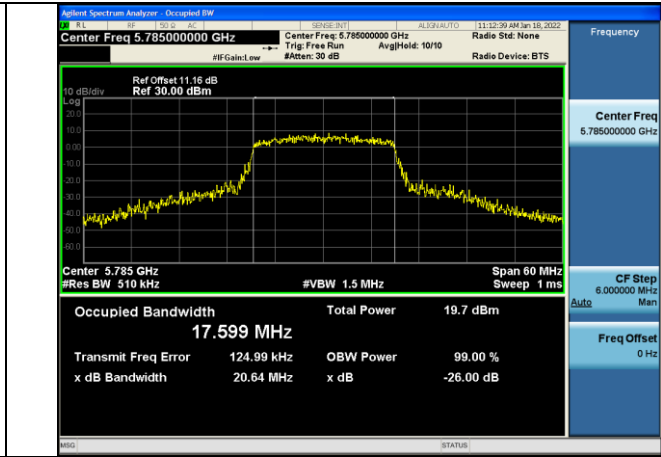


Test Mode:802.11n HT20 5825MHz Chain1

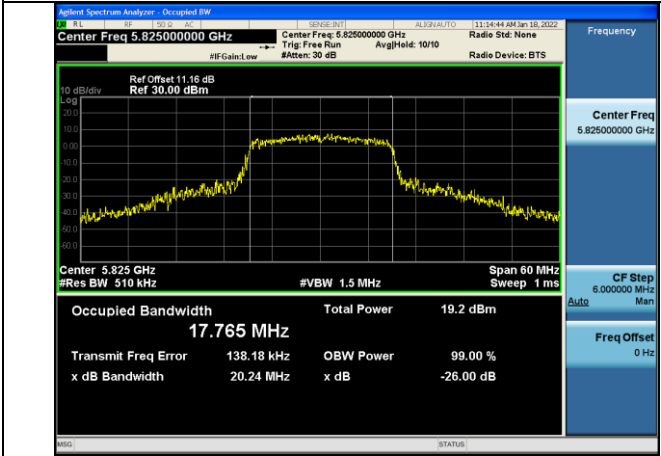
Test Mode: 802.11ac VHT20



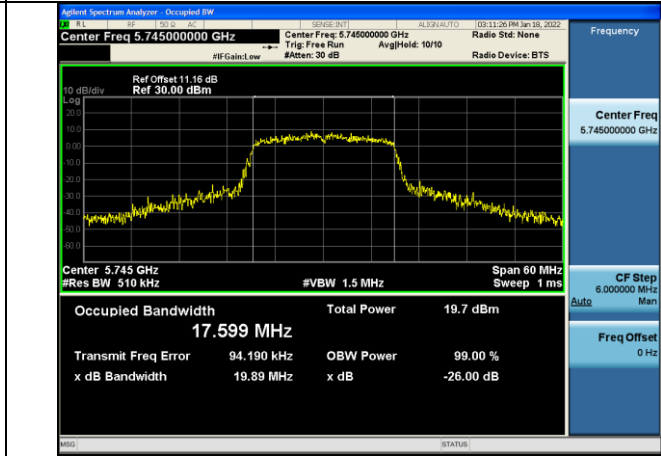
Test Mode:802.11ac VHT20 5745MHz Chain0



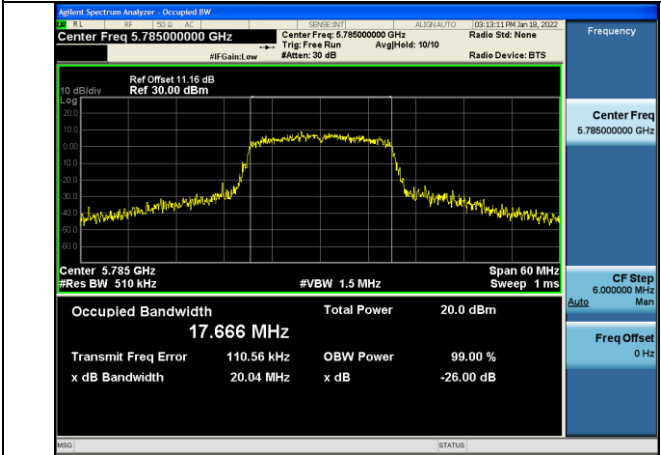
Test Mode:802.11ac VHT20 5785MHz Chain0



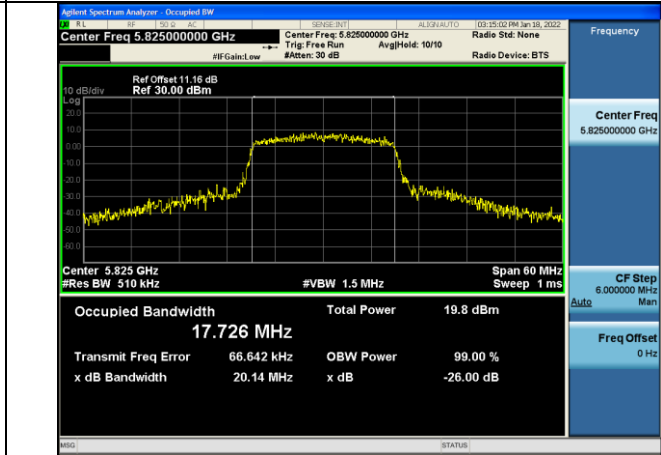
Test Mode:802.11ac VHT20 5825MHz Chain0



Test Mode:802.11ac VHT20 5745MHz Chain1

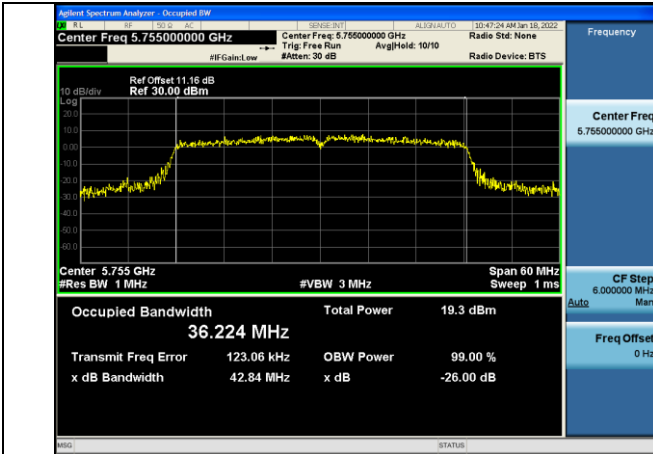


Test Mode:802.11ac VHT20 5785MHz Chain1

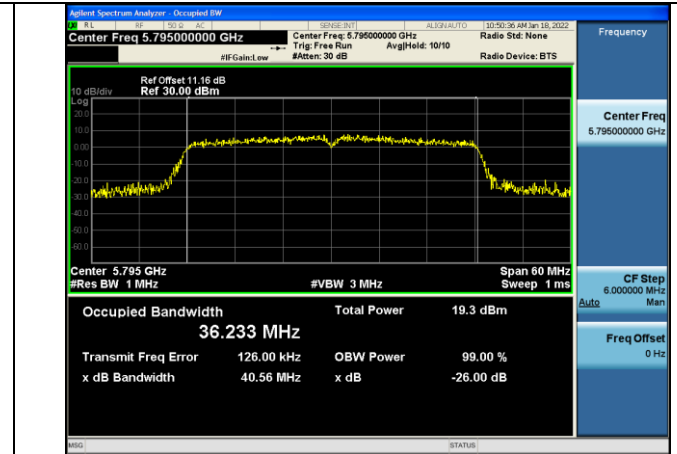


Test Mode:802.11ac VHT20 5825MHz Chain1

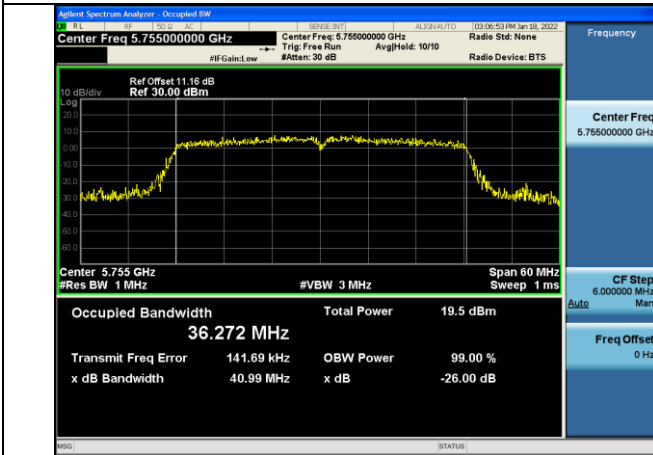
Test Mode: 802.11n HT40



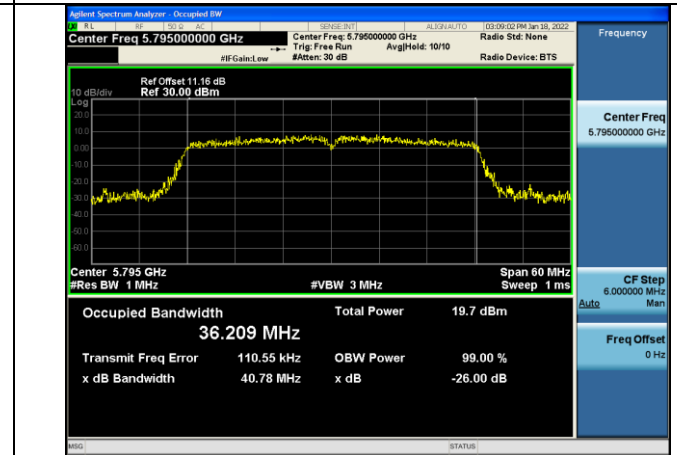
Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0

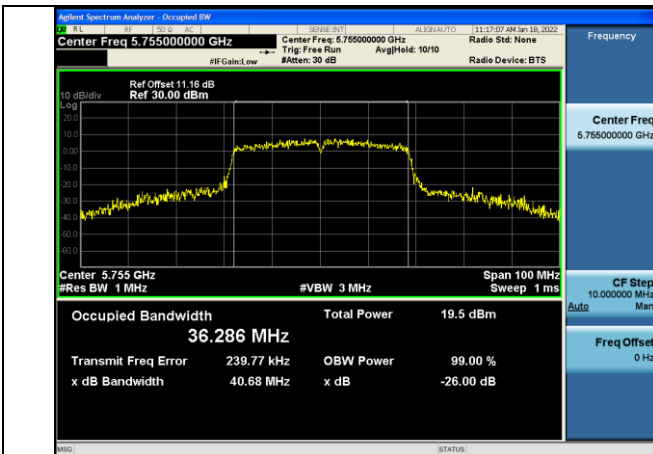


Test Mode:802.11n HT40 5755MHz Chain1

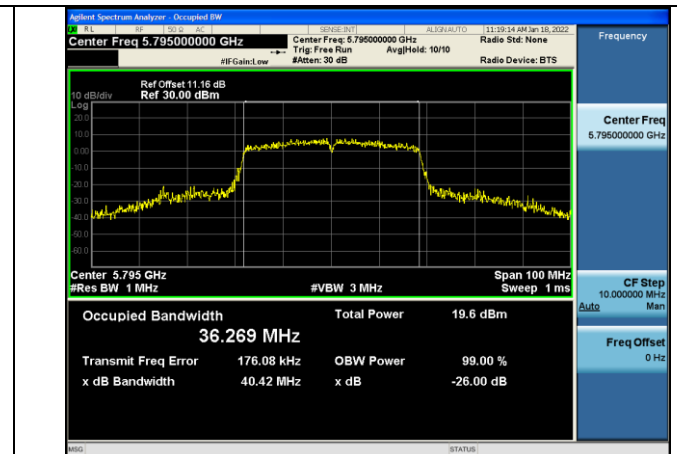


Test Mode:802.11n HT40 5795MHz Chain1

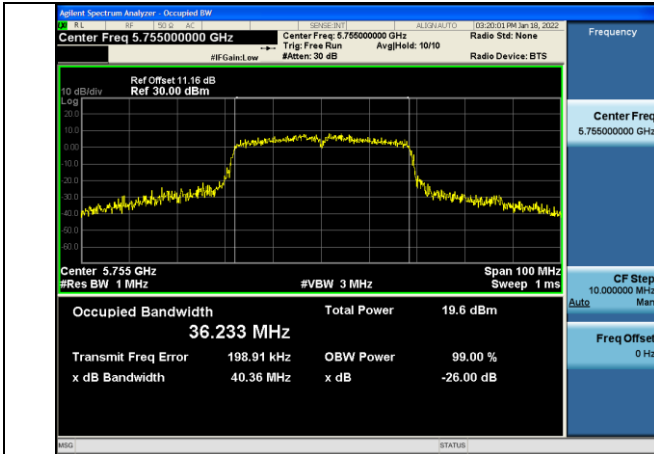
Test Mode: 802.11ac VHT40



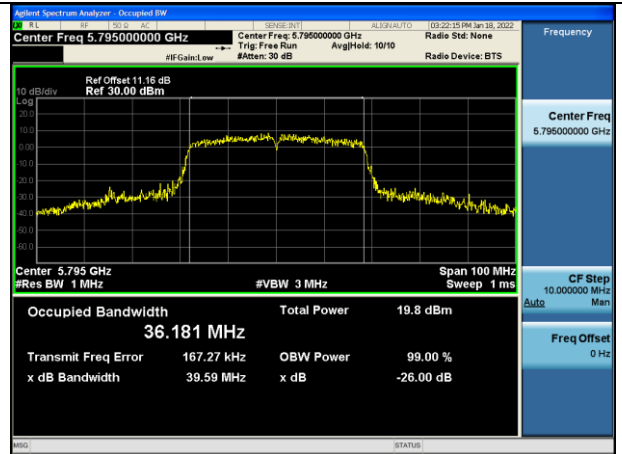
Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

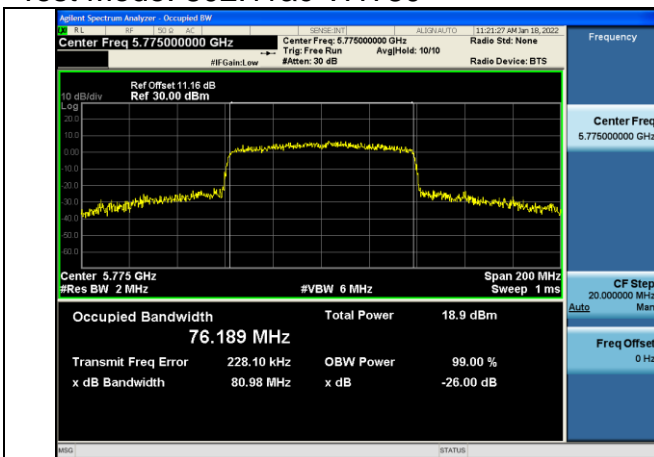


Test Mode:802.11ac VHT40 5755MHz Chain1

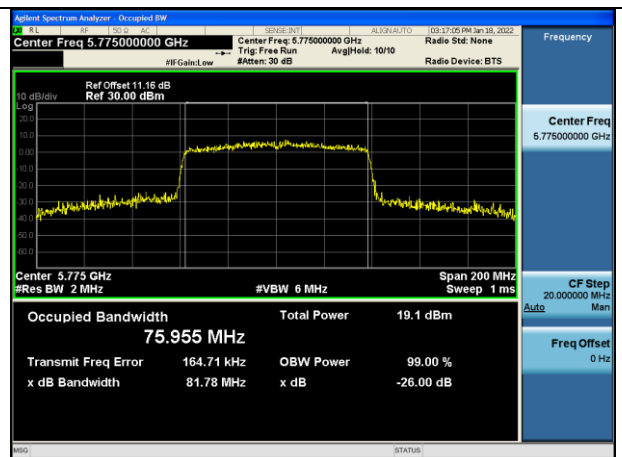


Test Mode:802.11ac VHT40 5795MHz Chain1

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0



Test Mode:802.11ac VHT80 5775MHz Chain1

Occupied Bandwidth

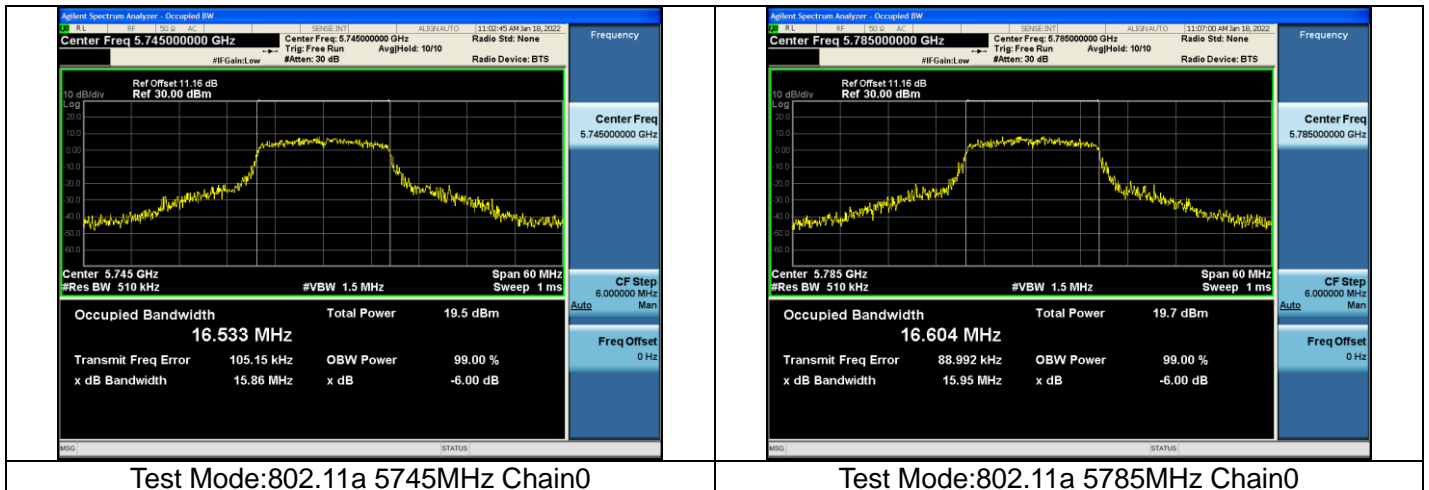
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

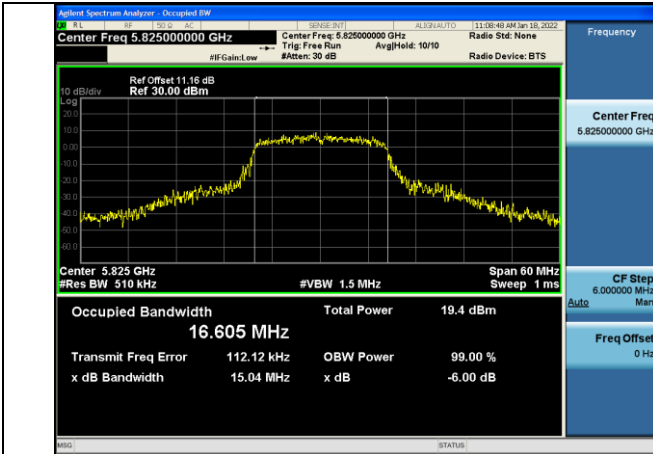
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.533	16.604	16.605
802.11a	Chain1	16.675	16.535	16.605
802.11n HT20	Chain0	17.897	17.791	17.690
802.11n HT20	Chain1	17.776	17.784	17.767
802.11ac VHT20	Chain0	17.758	17.751	17.771
802.11ac VHT20	Chain1	17.742	17.623	17.679

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	36.236	---	36.209
802.11n HT40	Chain1	36.212	---	36.171
802.11ac VHT40	Chain0	36.245	---	36.292
802.11ac VHT40	Chain1	36.114	---	36.174

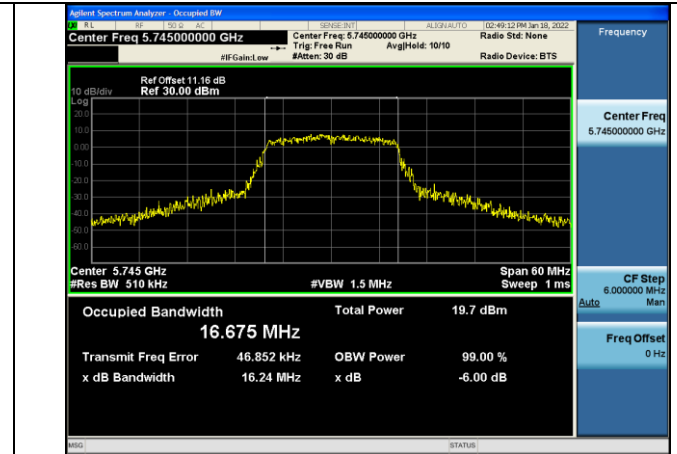
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	76.011	---	---
802.11ac VHT80	Chain1	75.922	---	---

Test Mode: 802.11a

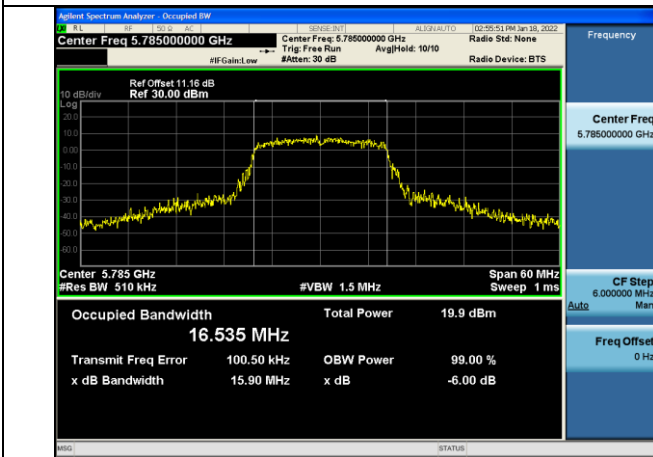




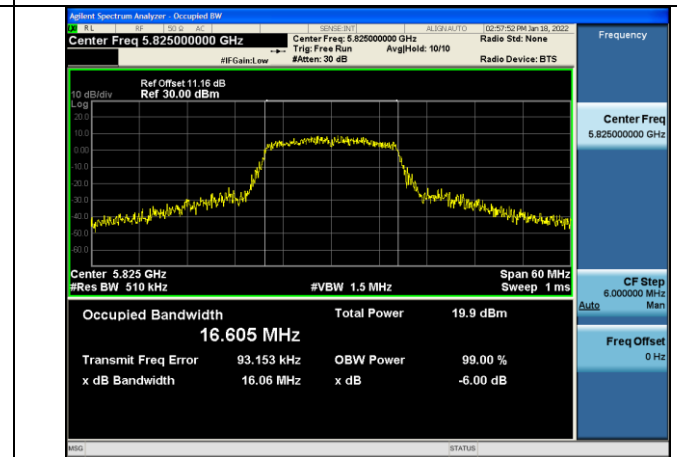
Test Mode:802.11a 5825MHz Chain0



Test Mode:802.11a 5745MHz Chain1

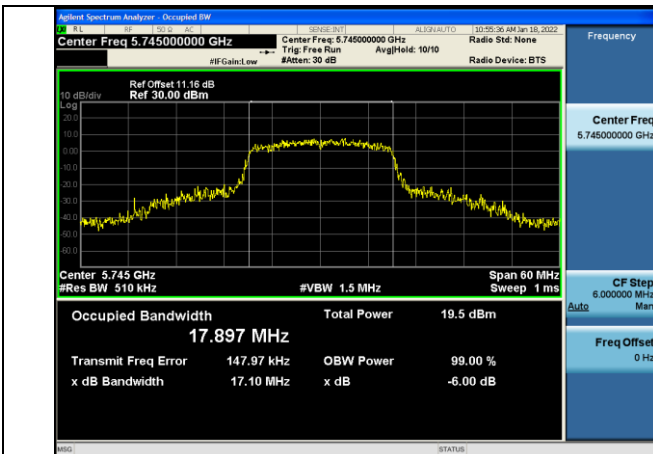


Test Mode:802.11a 5785MHz Chain1

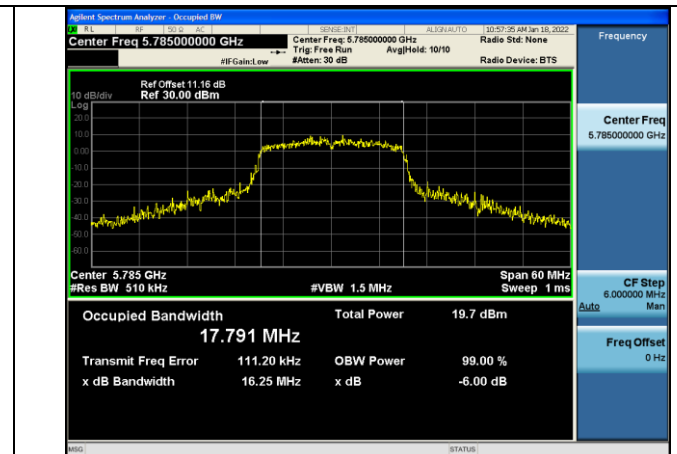


Test Mode:802.11a 5825MHz Chain1

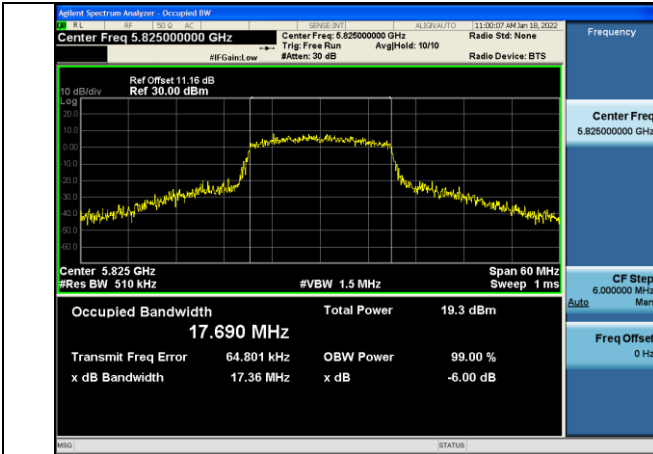
Test Mode: 802.11n HT20



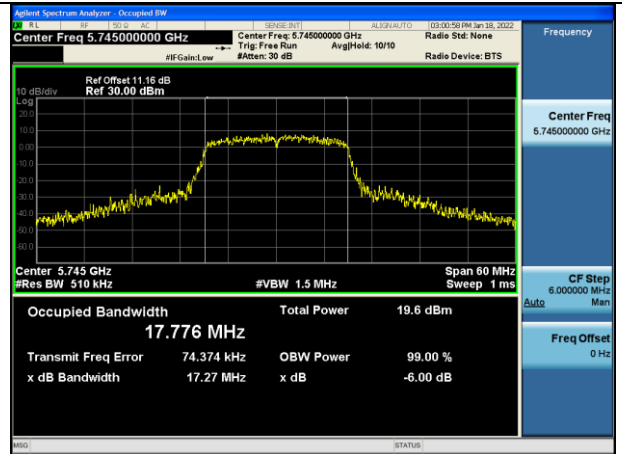
Test Mode:802.11n HT20 5745MHz Chain0



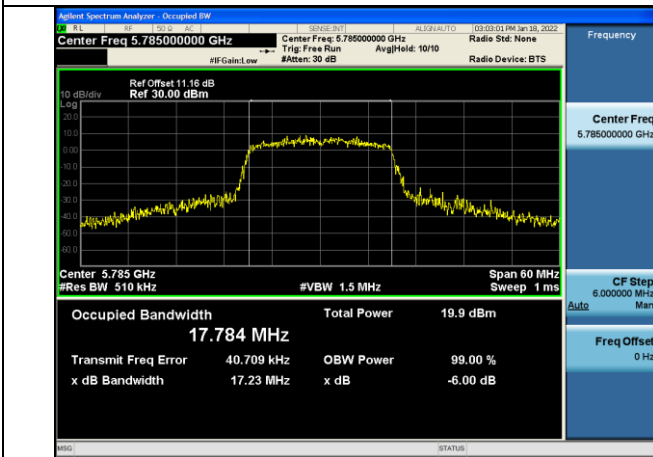
Test Mode:802.11n HT20 5785MHz Chain0



Test Mode:802.11n HT20 5825MHz Chain0



Test Mode:802.11n HT20 5745MHz Chain1

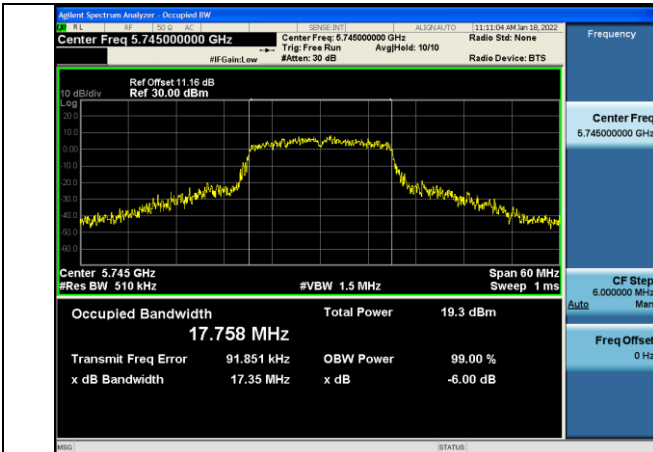


Test Mode:802.11n HT20 5785MHz Chain1

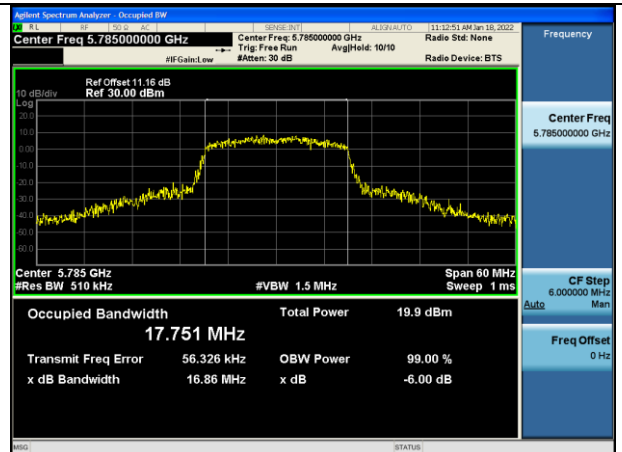


Test Mode:802.11n HT20 5825MHz Chain1

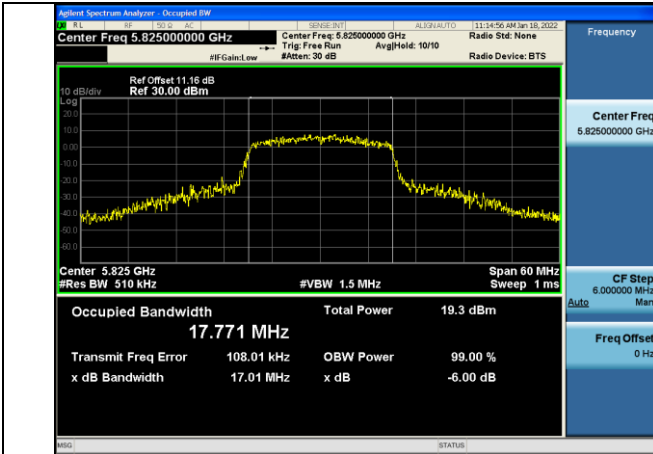
Test Mode: 802.11ac VHT20



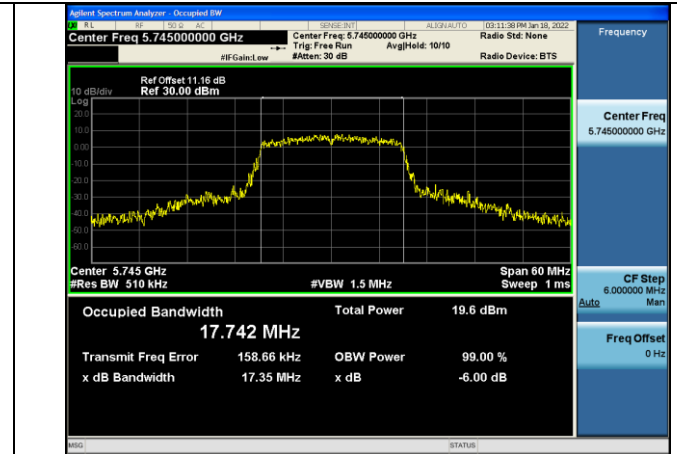
Test Mode:802.11ac VHT20 5745MHz Chain0



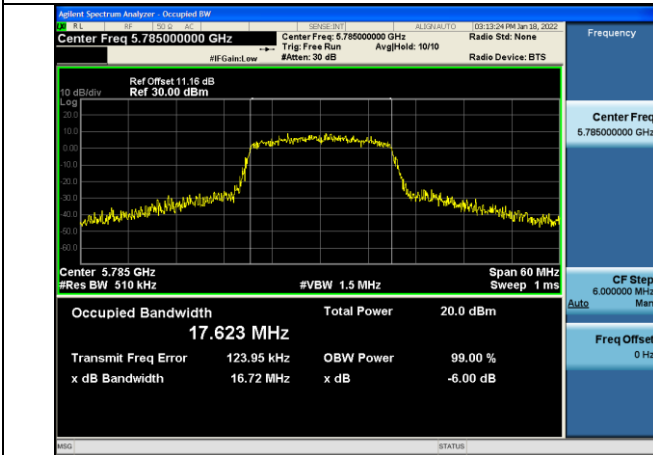
Test Mode:802.11ac VHT20 5785MHz Chain0



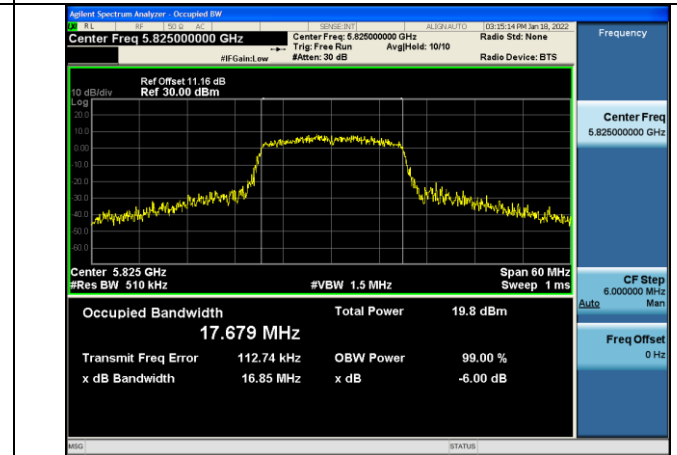
Test Mode:802.11ac VHT20 5825MHz Chain0



Test Mode:802.11ac VHT20 5745MHz Chain1

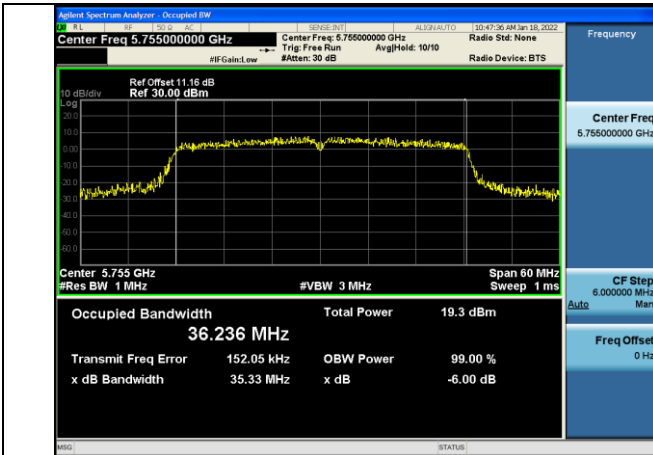


Test Mode:802.11ac VHT20 5785MHz Chain1



Test Mode:802.11ac VHT20 5825MHz Chain1

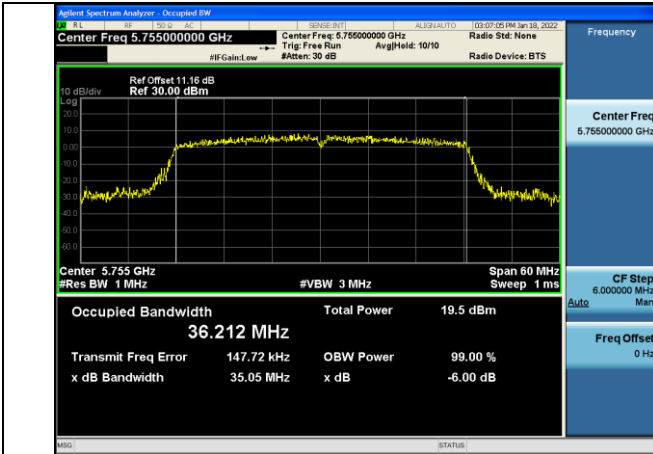
Test Mode: 802.11n HT40



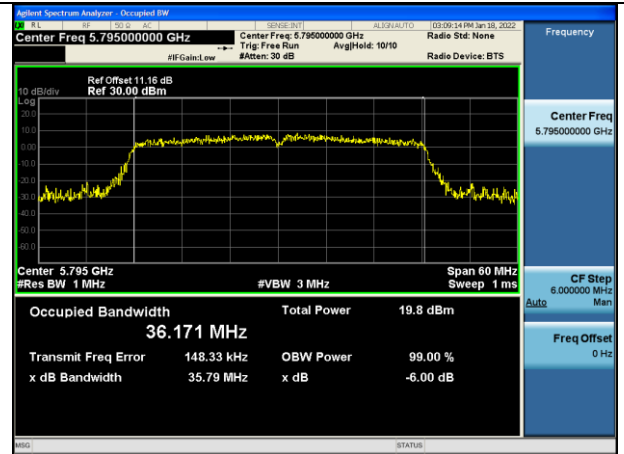
Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0

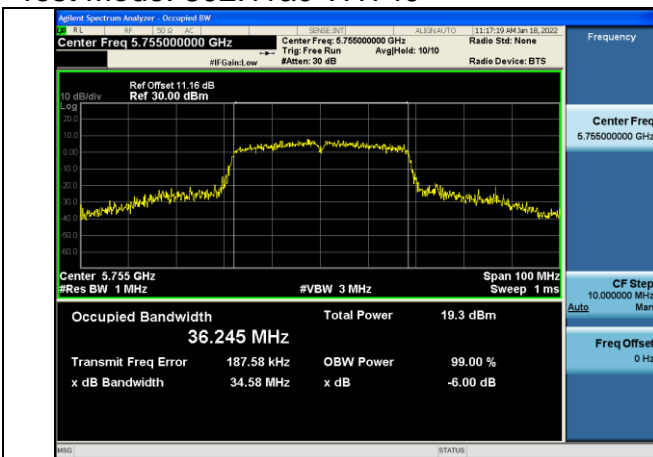


Test Mode:802.11n HT40 5755MHz Chain1

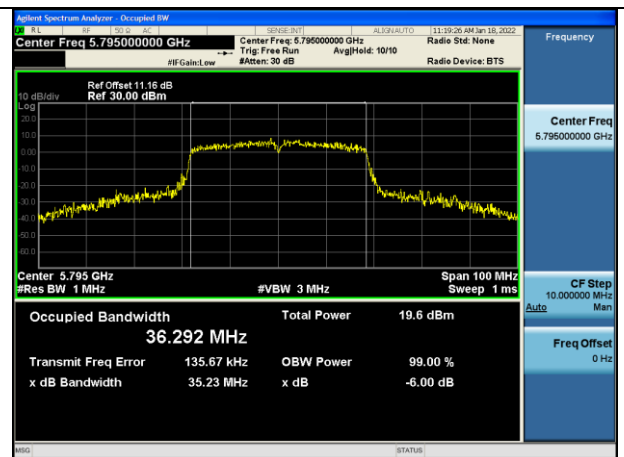


Test Mode:802.11n HT40 5795MHz Chain1

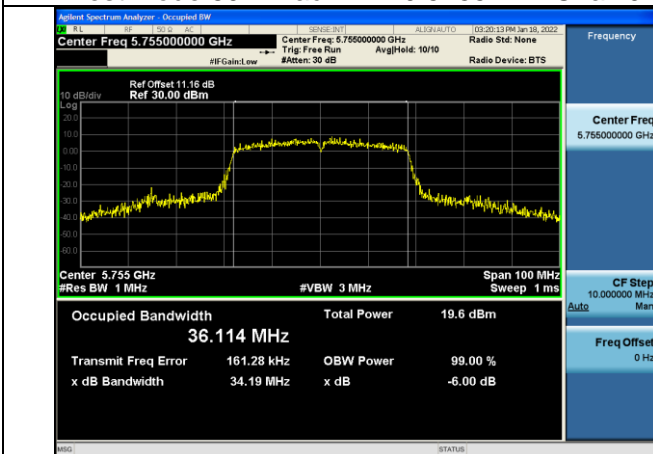
Test Mode: 802.11ac VHT40



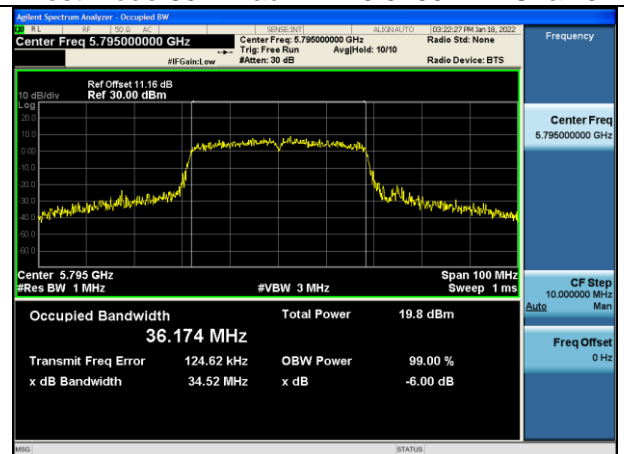
Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

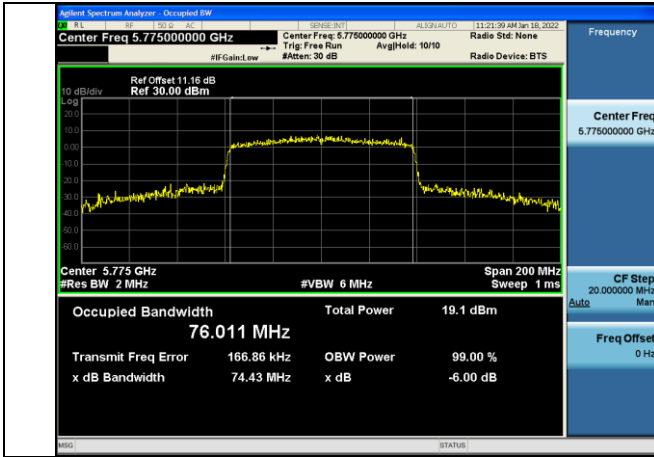


Test Mode:802.11ac VHT40 5755MHz Chain1

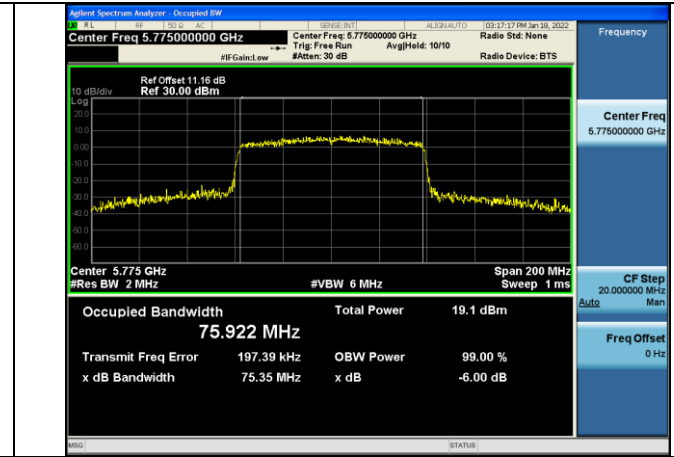


Test Mode:802.11ac VHT40 5795MHz Chain1

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0



Test Mode:802.11ac VHT80 5775MHz Chain1

6dB Bandwidth

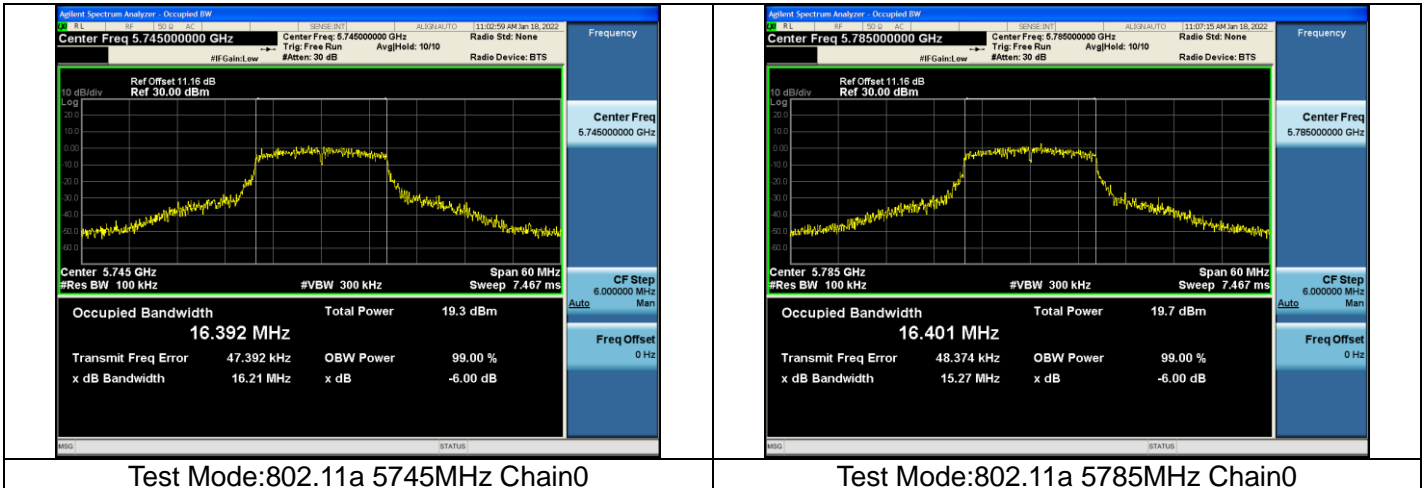
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

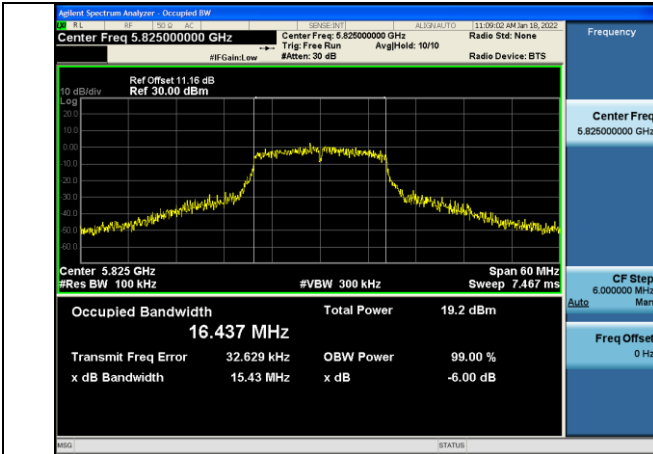
Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.667 5745MHz	Channel No.675 5785MHz	Channel No.683 5825MHz
802.11a	Chain0	16.21	15.27	15.43
802.11a	Chain1	16.35	14.38	15.49
802.11n HT20	Chain0	16.29	15.25	14.80
802.11n HT20	Chain1	17.62	17.57	17.27
802.11ac VHT20	Chain0	17.63	17.59	17.30
802.11ac VHT20	Chain1	10.27	17.58	12.57

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.669 5755MHz	---	Channel No.677 5795MHz
802.11n HT40	Chain0	35.54	---	31.90
802.11n HT40	Chain1	32.67	---	36.29
802.11ac VHT40	Chain0	35.65	---	33.62
802.11ac VHT40	Chain1	36.32	---	35.48

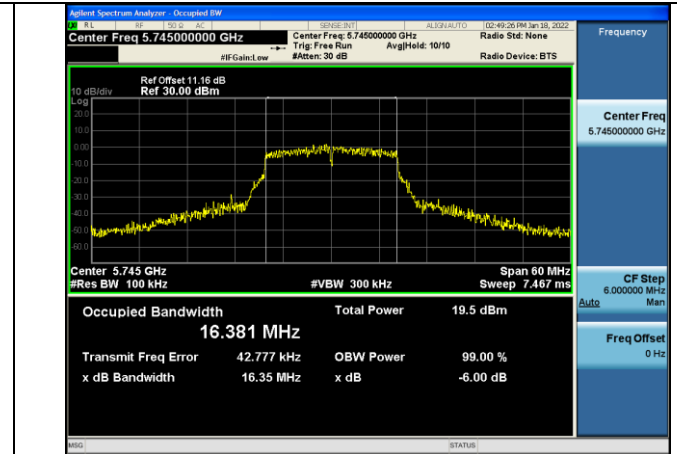
Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.673 5775MHz	---	---
802.11ac VHT80	Chain0	71.55	---	---
802.11ac VHT80	Chain1	74.26	---	---

Test Mode: 802.11a

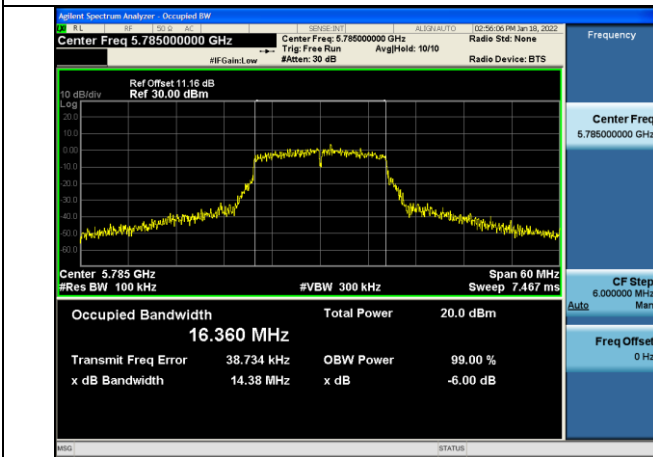




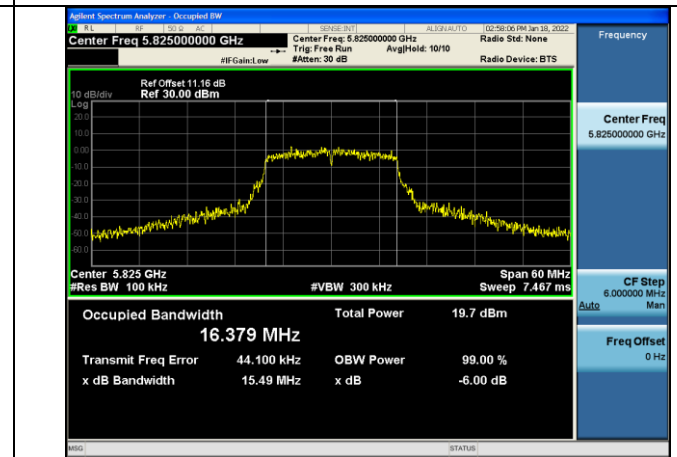
Test Mode:802.11a 5825MHz Chain0



Test Mode:802.11a 5745MHz Chain1

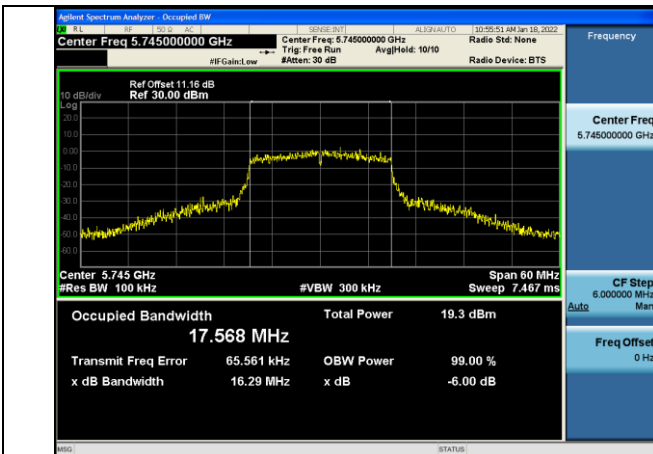


Test Mode:802.11a 5785MHz Chain1

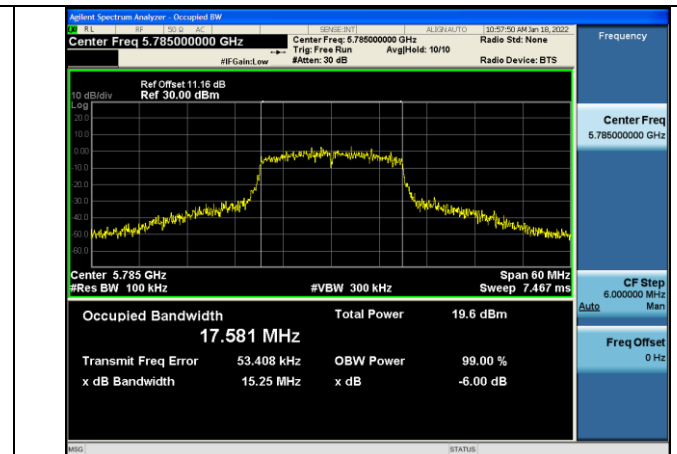


Test Mode:802.11a 5825MHz Chain1

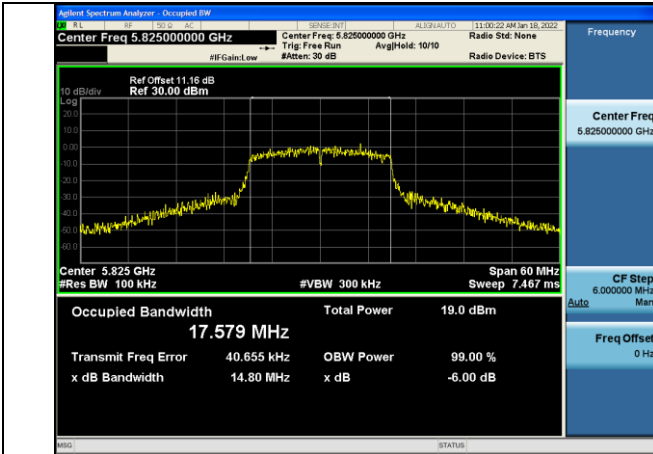
Test Mode: 802.11n HT20



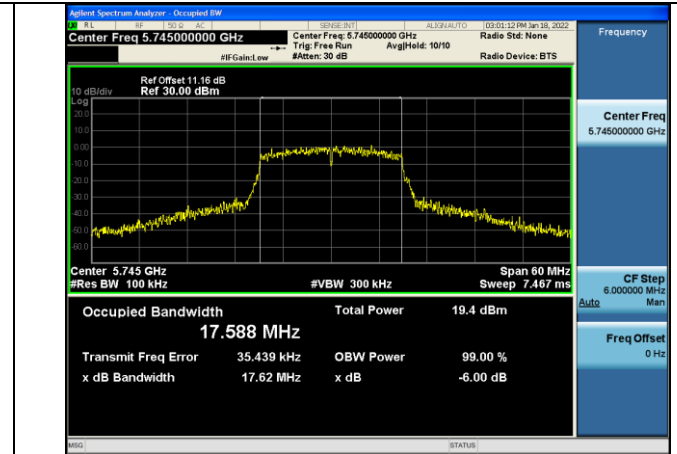
Test Mode:802.11n HT20 5745MHz Chain0



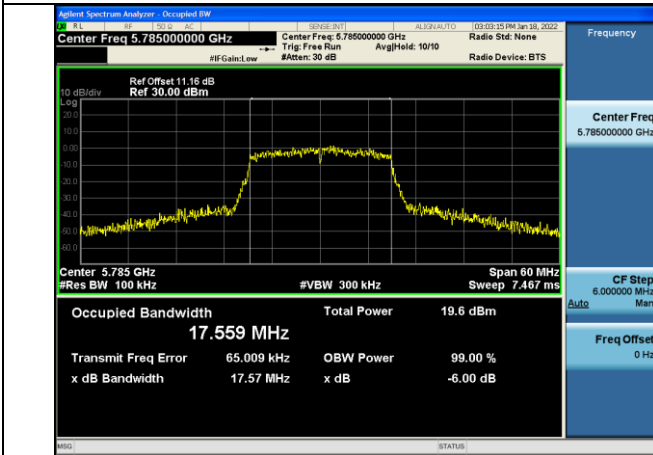
Test Mode:802.11n HT20 5785MHz Chain0



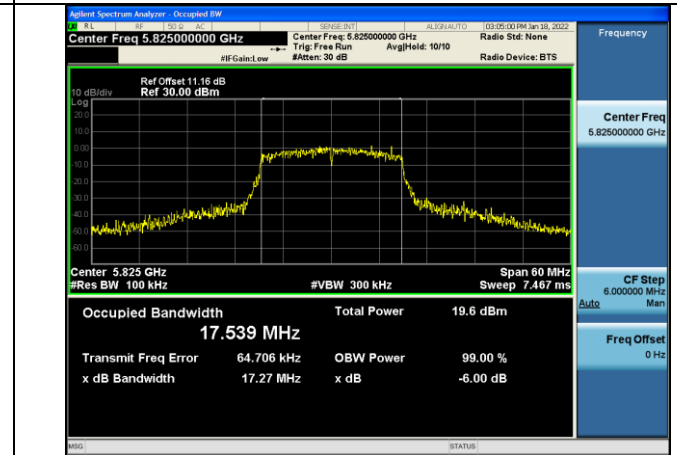
Test Mode:802.11n HT20 5825MHz Chain0



Test Mode:802.11n HT20 5745MHz Chain1

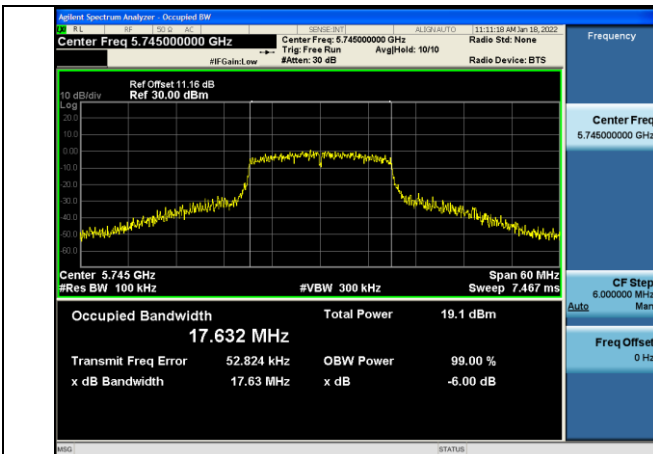


Test Mode:802.11n HT20 5785MHz Chain1

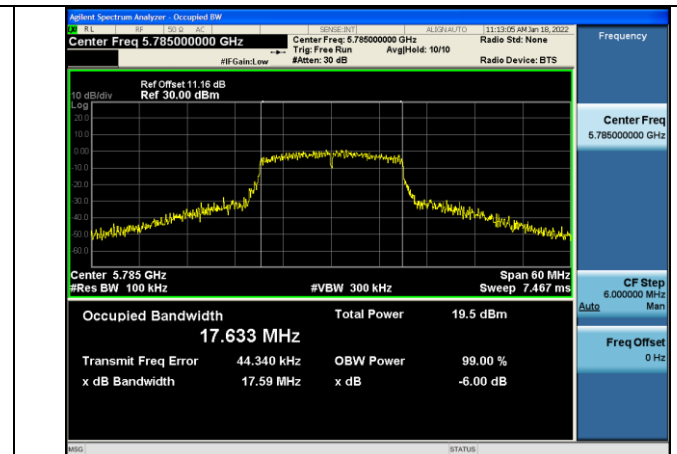


Test Mode:802.11n HT20 5825MHz Chain1

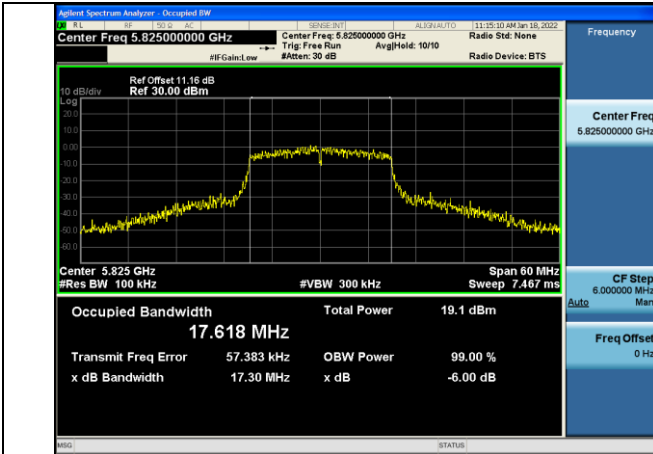
Test Mode: 802.11ac VHT20



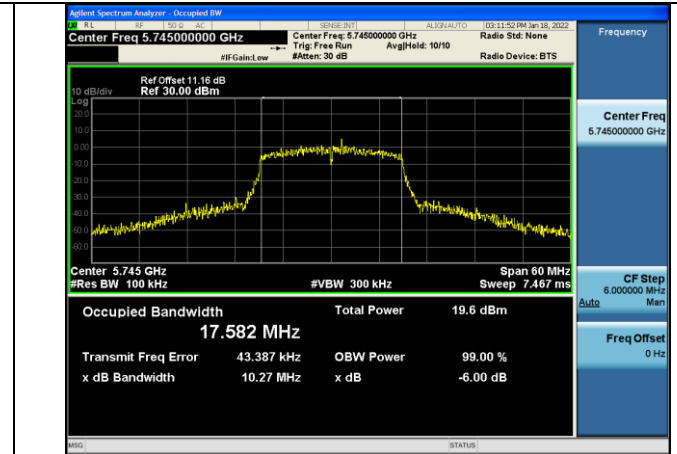
Test Mode:802.11ac VHT20 5745MHz Chain0



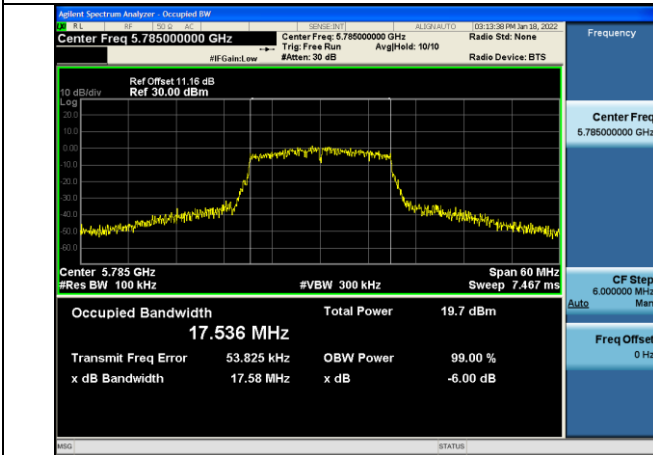
Test Mode:802.11ac VHT20 5785MHz Chain0



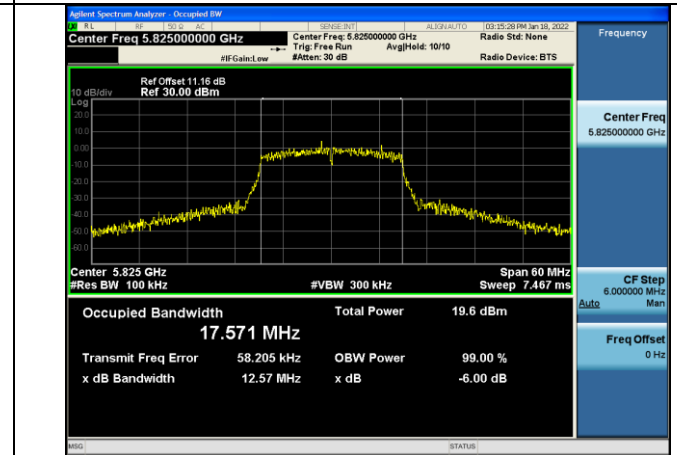
Test Mode:802.11ac VHT20 5825MHz Chain0



Test Mode:802.11ac VHT20 5745MHz Chain1

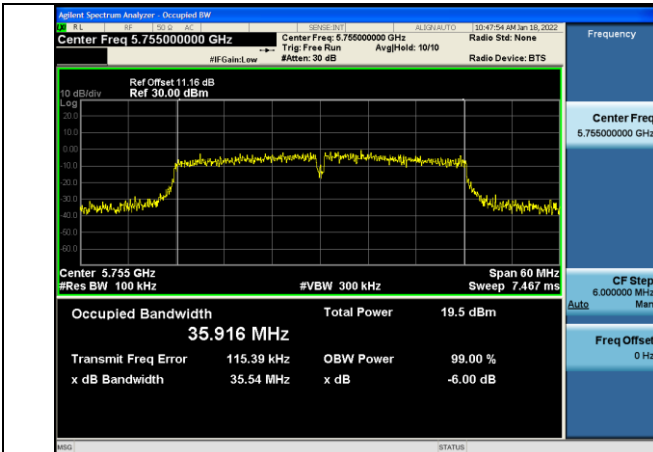


Test Mode:802.11ac VHT20 5785MHz Chain1

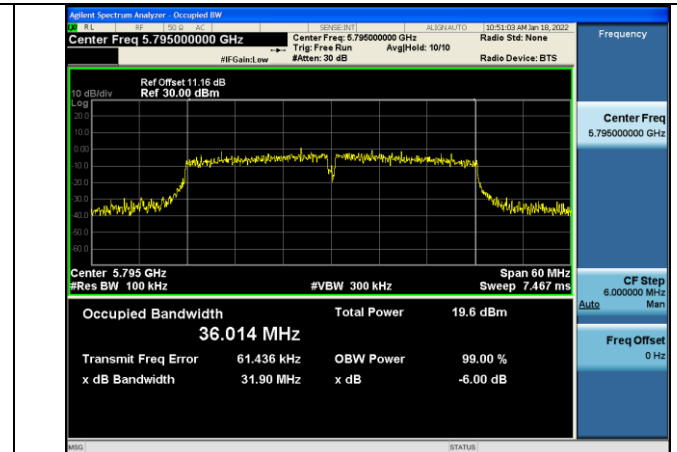


Test Mode:802.11ac VHT20 5825MHz Chain1

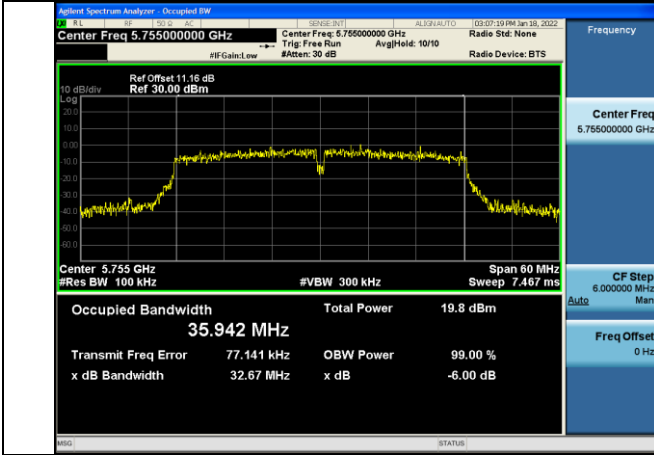
Test Mode: 802.11n HT40



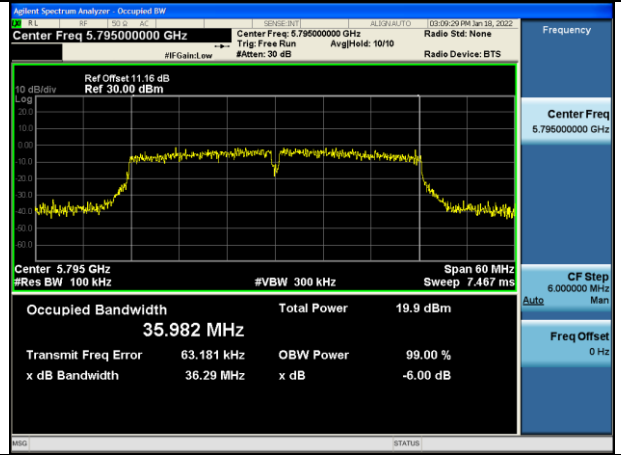
Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0

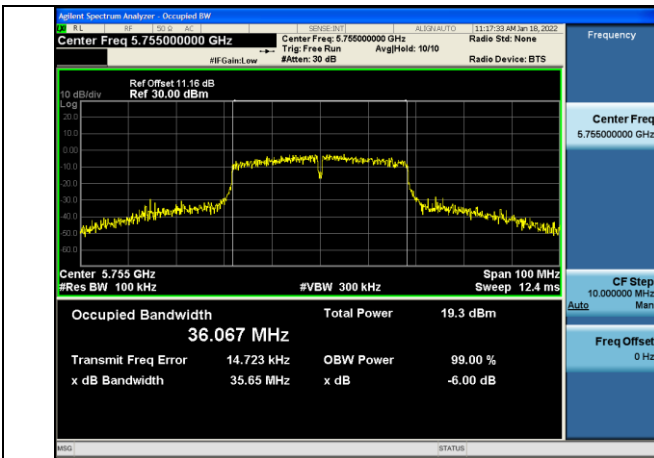


Test Mode:802.11n HT40 5755MHz Chain1



Test Mode:802.11n HT40 5795MHz Chain1

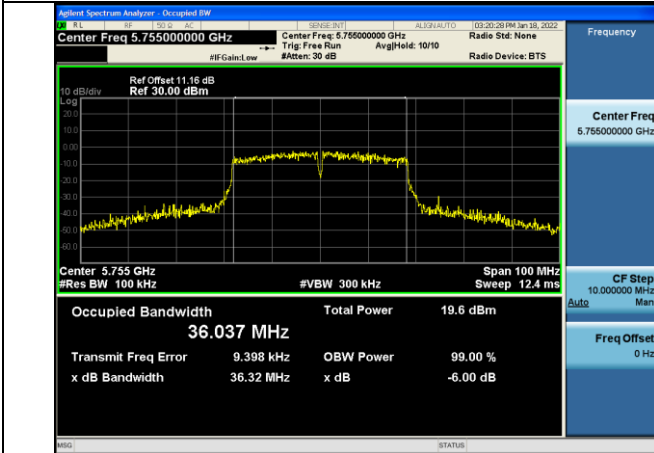
Test Mode: 802.11ac VHT40



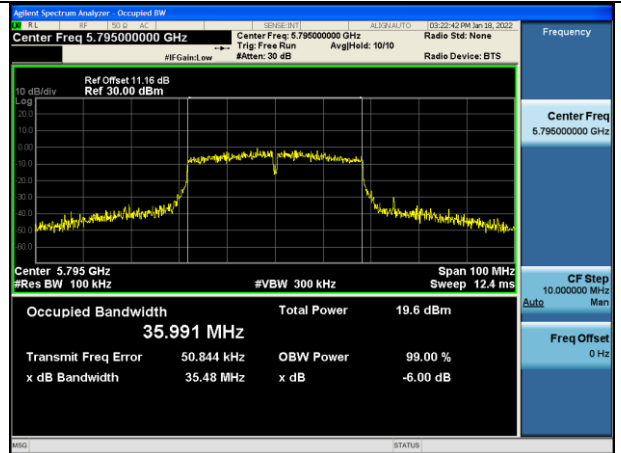
Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0



Test Mode:802.11ac VHT40 5755MHz Chain1



Test Mode:802.11ac VHT40 5795MHz Chain1

Test Mode: 802.11ac VHT80