

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5745	96.82%	0.14
802.11a	5745	96.85%	0.14
802.11n HT20	5745	96.57%	0.15
802.11n HT20	5745	96.54%	0.15
802.11ac VHT20	5745	94.03%	0.27
802.11ac VHT20	5745	94.01%	0.27
802.11n HT40	5755	93.84%	0.28
802.11n HT40	5755	93.95%	0.27
802.11ac VHT40	5755	90.56%	0.43
802.11ac VHT40	5755	93.55%	0.29
802.11ac VHT80	5775	86.32%	0.64
802.11ac VHT80	5775	86.51%	0.63

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	14.71	18.40
802.11a	NA	5745	Chain1	17.60	21.89
802.11a	NA	5785	Chain0	14.62	18.31
802.11a	NA	5785	Chain1	17.64	21.93
802.11a	NA	5825	Chain0	14.35	18.04
802.11a	NA	5825	Chain1	17.78	22.07
802.11ac VHT20	NA	5745	Chain0	13.77	17.46
802.11ac VHT20	NA	5745	Chain1	16.07	20.36
802.11ac VHT20	NA	5745	MIMO	18.08	22.37
802.11ac VHT20	NA	5785	Chain0	13.62	17.31
802.11ac VHT20	NA	5785	Chain1	16.31	20.60
802.11ac VHT20	NA	5785	MIMO	18.18	22.47
802.11ac VHT20	NA	5825	Chain0	13.33	17.02
802.11ac VHT20	NA	5825	Chain1	16.01	20.30
802.11ac VHT20	NA	5825	MIMO	17.88	22.17
802.11ac VHT40	NA	5755	Chain0	13.10	16.79
802.11ac VHT40	NA	5755	Chain1	16.21	20.50
802.11ac VHT40	NA	5755	MIMO	17.94	22.23
802.11ac VHT40	NA	5795	Chain0	12.86	16.55
802.11ac VHT40	NA	5795	Chain1	16.28	20.57
802.11ac VHT40	NA	5795	MIMO	17.91	22.20
802.11ac VHT80	NA	5775	Chain0	12.29	15.98
802.11ac VHT80	NA	5775	Chain1	14.19	18.48

802.11ac VHT80	NA	5775	MIMO	16.35	20.64
802.11n HT20	NA	5745	Chain0	14.19	17.88
802.11n HT20	NA	5745	Chain1	16.80	21.09
802.11n HT20	NA	5745	MIMO	18.70	22.99
802.11n HT20	NA	5785	Chain0	13.91	17.60
802.11n HT20	NA	5785	Chain1	16.68	20.97
802.11n HT20	NA	5785	MIMO	18.52	22.81
802.11n HT20	NA	5825	Chain0	14.08	17.77
802.11n HT20	NA	5825	Chain1	16.52	20.81
802.11n HT20	NA	5825	MIMO	18.48	22.77
802.11n HT40	NA	5755	Chain0	13.73	17.42
802.11n HT40	NA	5755	Chain1	16.20	20.49
802.11n HT40	NA	5755	MIMO	18.15	22.44
802.11n HT40	NA	5795	Chain0	13.46	17.15
802.11n HT40	NA	5795	Chain1	16.55	20.84
802.11n HT40	NA	5795	MIMO	18.28	22.57

Emission Bandwidth

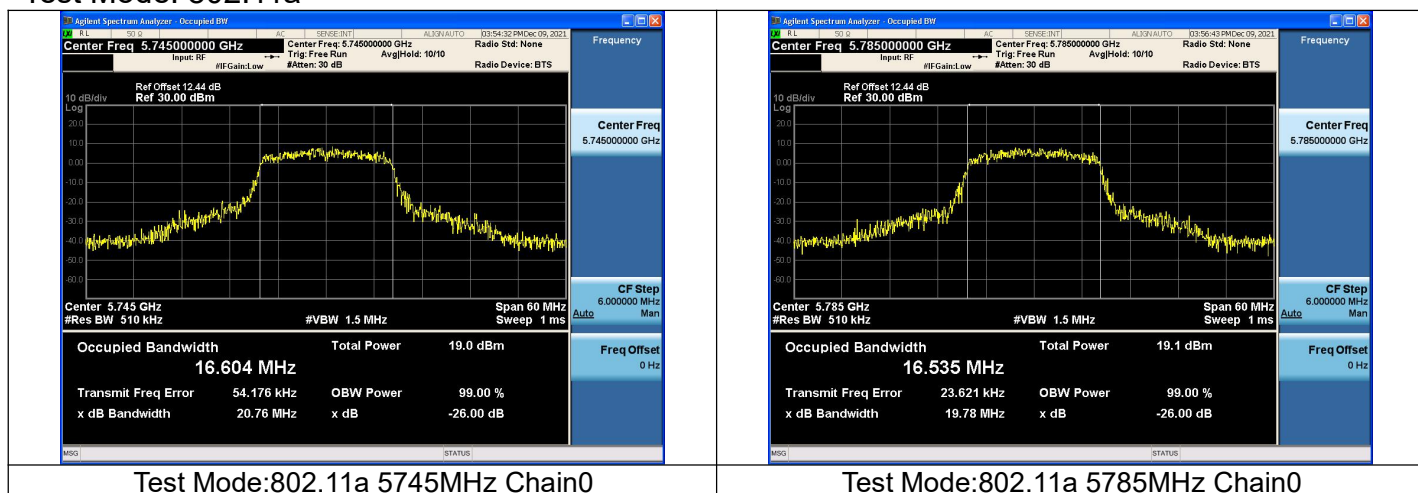
Offset 12.44dB = Attenuator 10dB + Temporary antenna connector loss 0.2dB + Cable loss 2.24dB

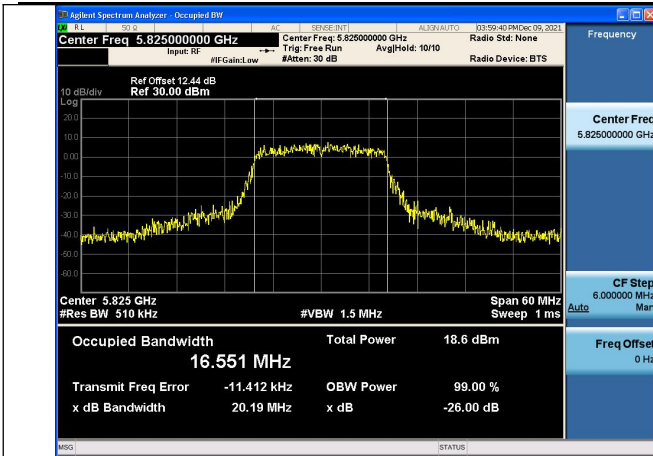
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	20.76	19.78	20.19
802.11a	Chain1	21.22	20.35	21.34
802.11n HT20	Chain0	20.10	20.70	20.03
802.11n HT20	Chain1	20.36	20.41	20.49
802.11ac VHT20	Chain0	22.08	19.91	19.93
802.11ac VHT20	Chain1	20.15	20.53	19.98

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	41.63	---	39.89
802.11n HT40	Chain1	40.37	---	41.12
802.11ac VHT40	Chain0	39.72	---	40.78
802.11ac VHT40	Chain1	39.79	---	40.17

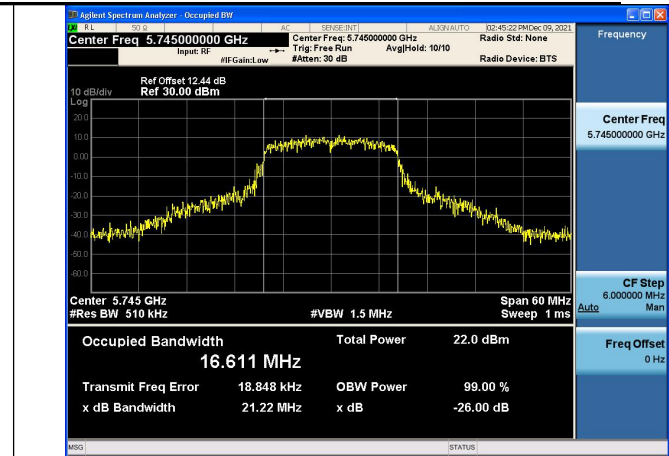
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	92.67	---	---
802.11ac VHT80	Chain1	80.44	---	---

Test Mode: 802.11a

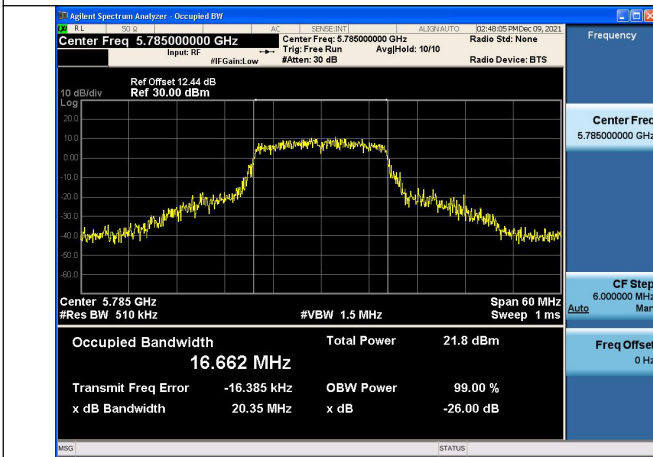




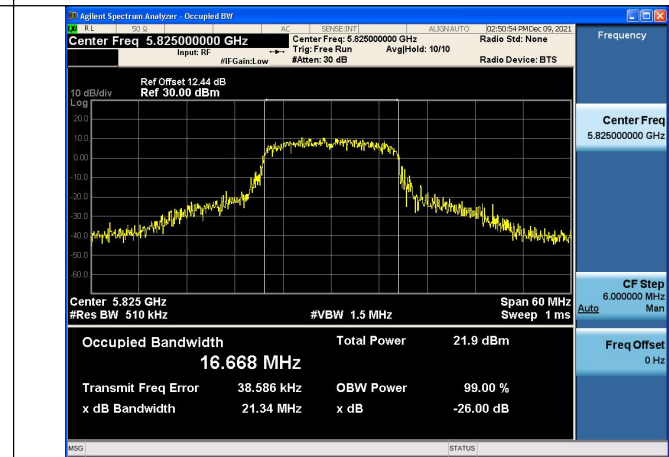
Test Mode:802.11a 5825MHz Chain0



Test Mode:802.11a 5745MHz Chain1

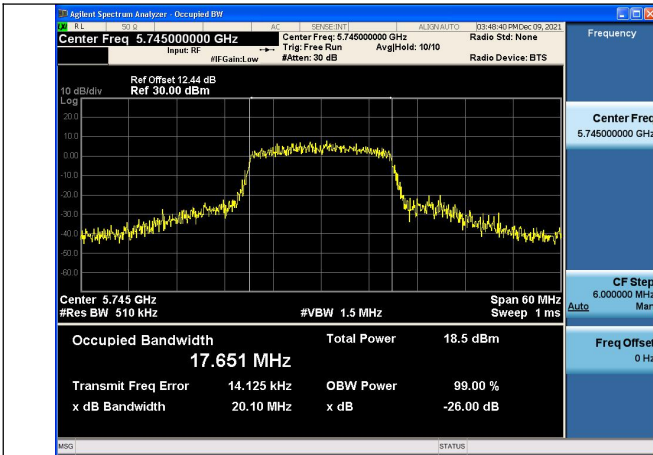


Test Mode:802.11a 5785MHz Chain1

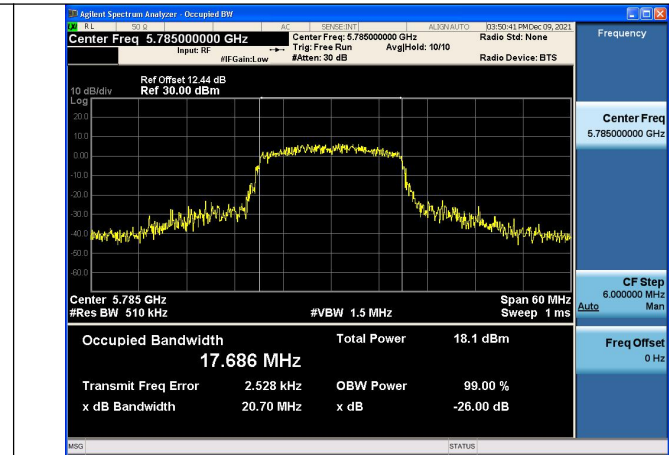


Test Mode:802.11a 5825MHz Chain1

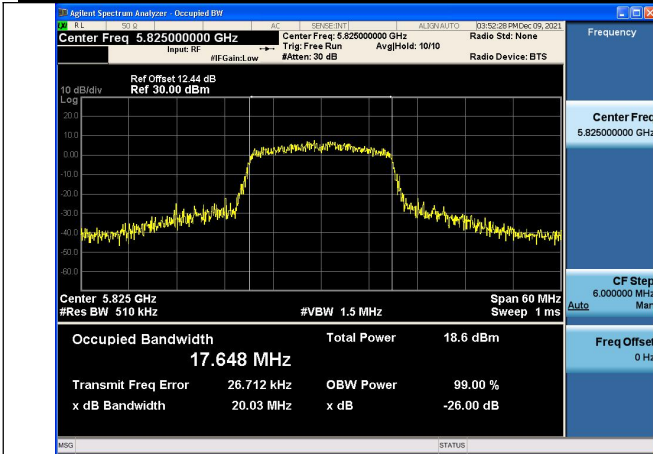
Test Mode: 802.11n HT20



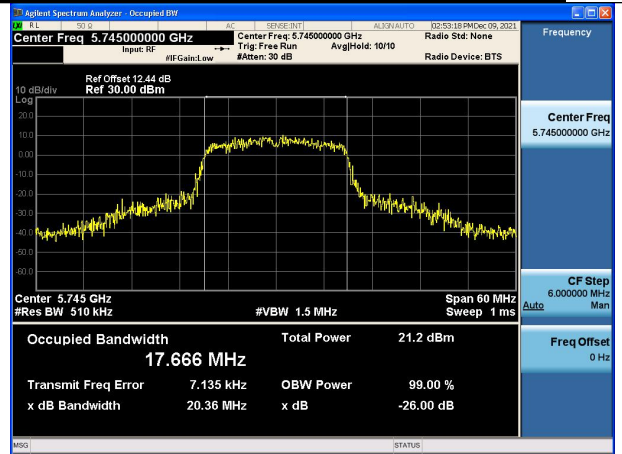
Test Mode:802.11n HT20 5745MHz Chain0



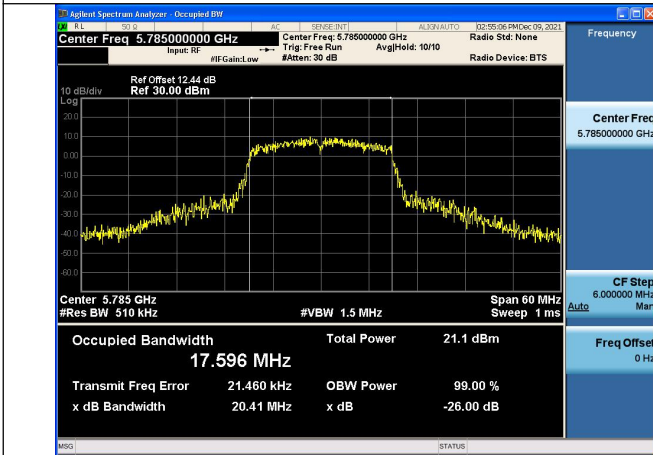
Test Mode:802.11n HT20 5785MHz Chain0



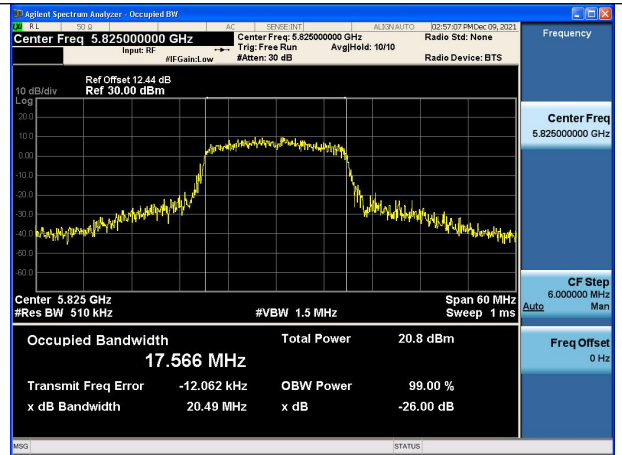
Test Mode:802.11n HT20 5825MHz Chain0



Test Mode:802.11n HT20 5745MHz Chain1

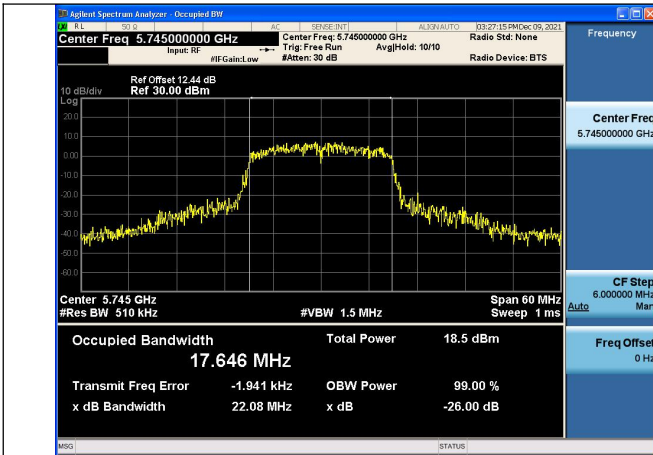


Test Mode:802.11n HT20 5785MHz Chain1

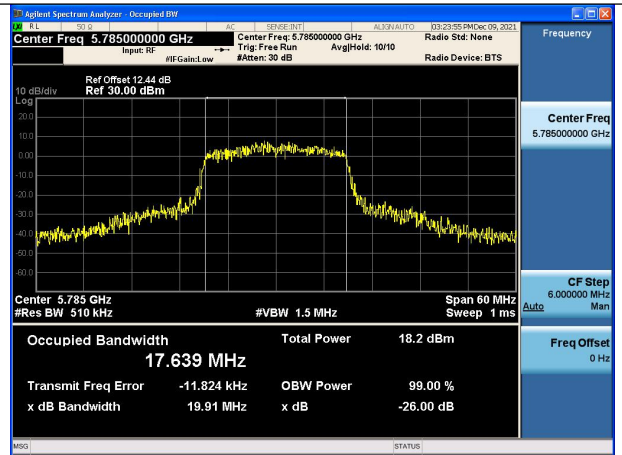


Test Mode:802.11n HT20 5825MHz Chain1

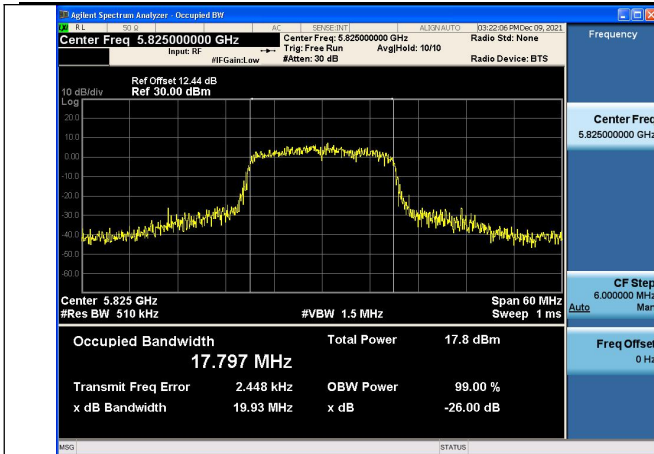
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5745MHz Chain0



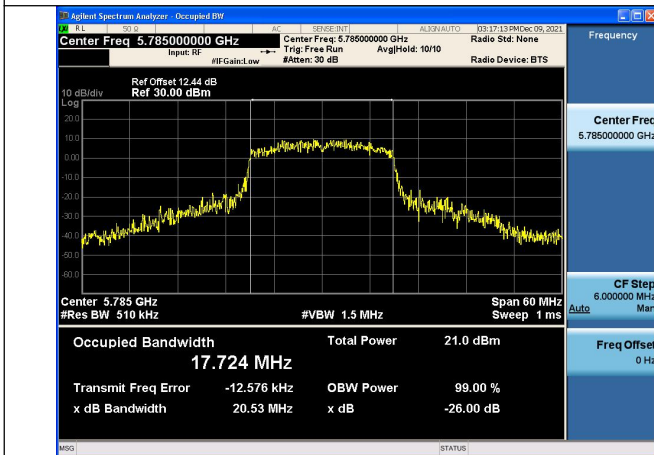
Test Mode:802.11ac VHT20 5785MHz Chain0



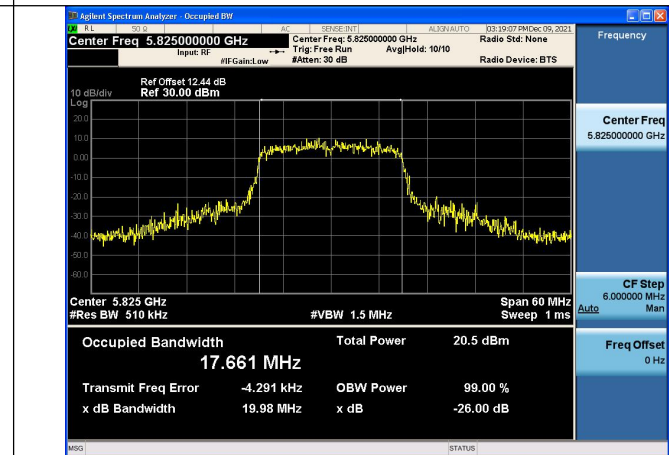
Test Mode:802.11ac VHT20 5825MHz Chain0



Test Mode:802.11ac VHT20 5745MHz Chain1



Test Mode:802.11ac VHT20 5785MHz Chain1

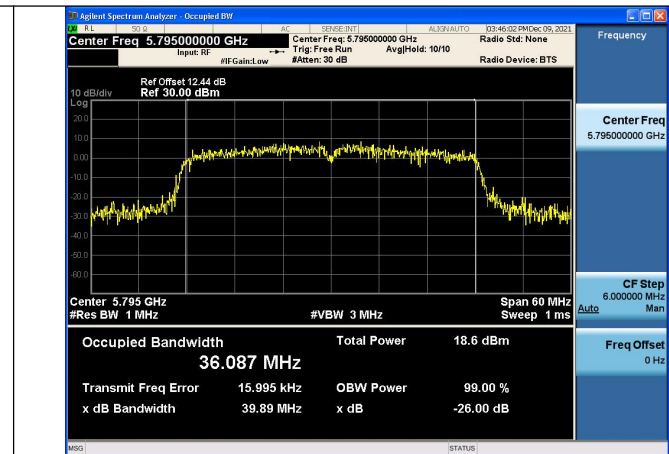


Test Mode:802.11ac VHT20 5825MHz Chain1

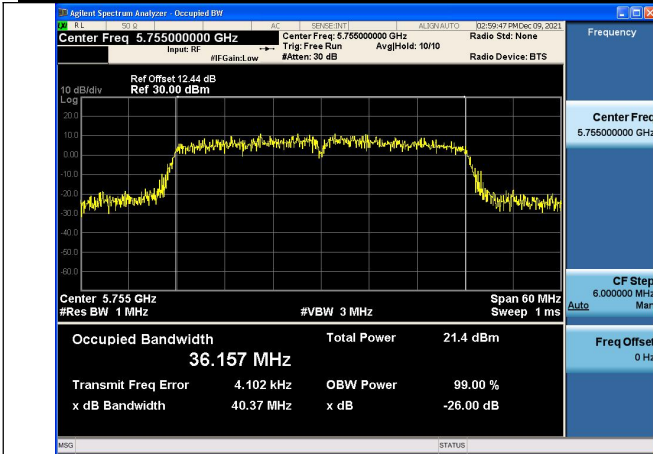
Test Mode: 802.11n HT40



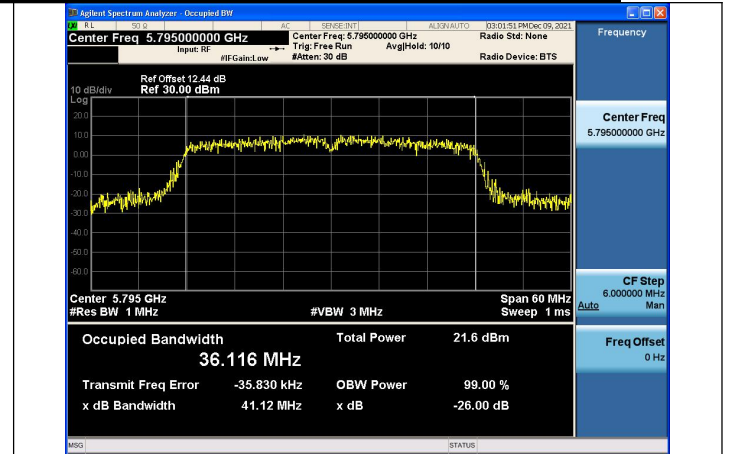
Test Mode:802.11n HT40 5755MHz Chain0



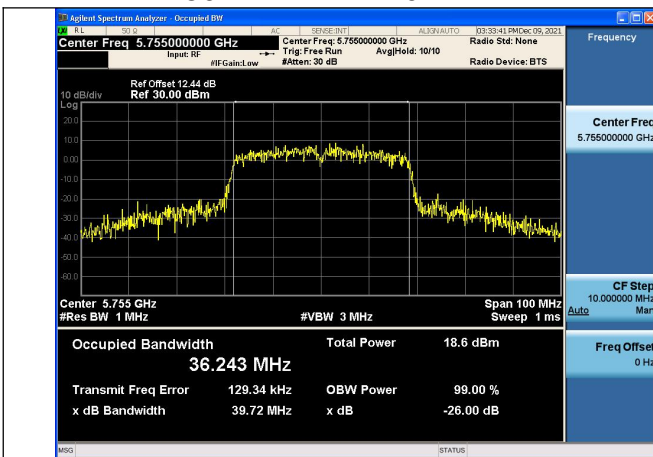
Test Mode:802.11n HT40 5795MHz Chain0



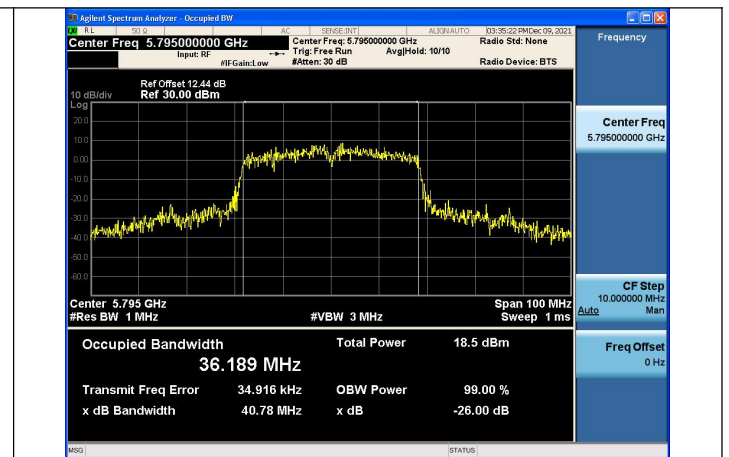
Test Mode:802.11n HT40 5755MHz Chain1



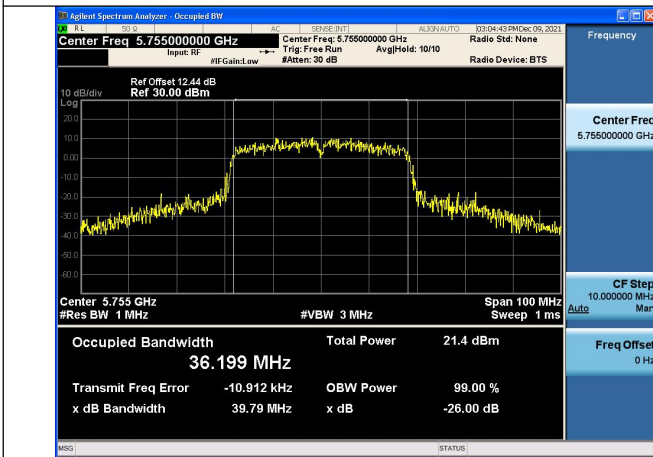
Test Mode:802.11n HT40 5795MHz Chain1



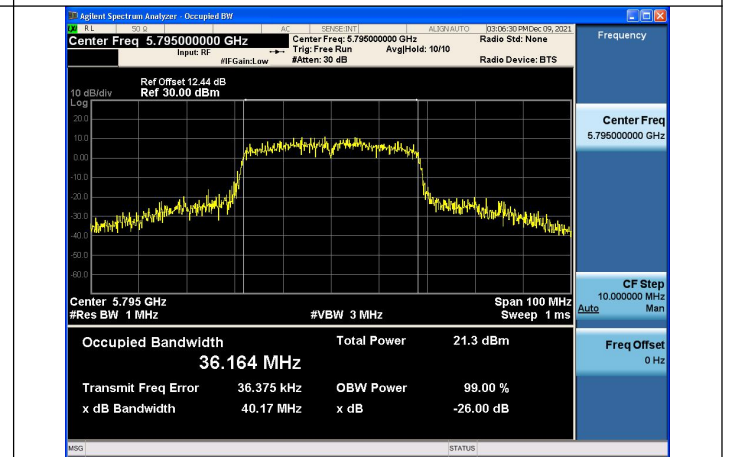
Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

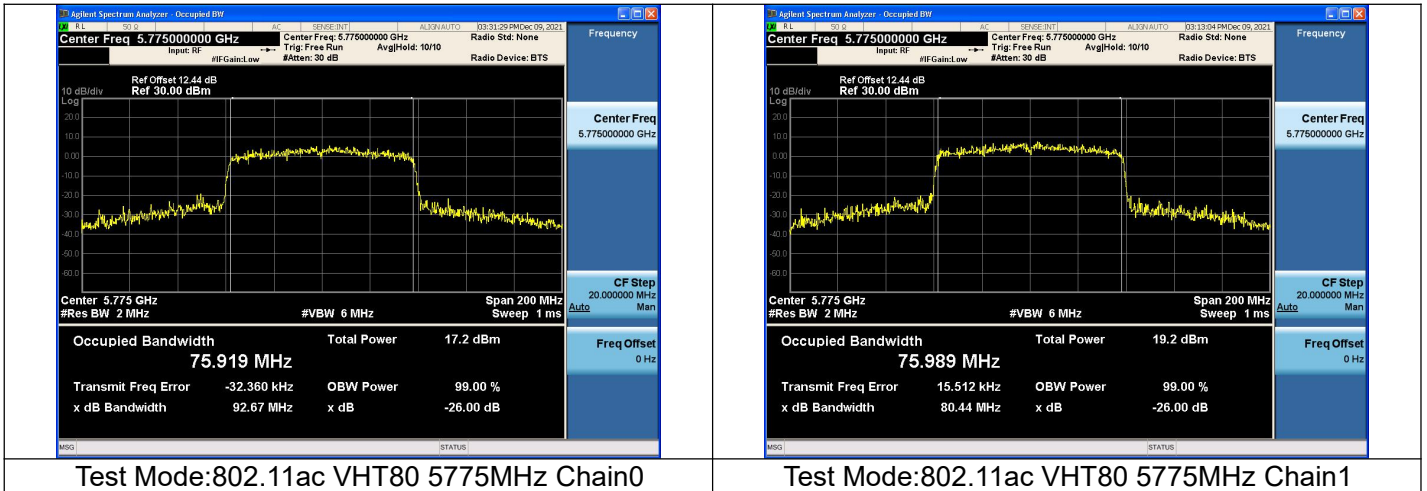


Test Mode:802.11ac VHT40 5755MHz Chain1



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

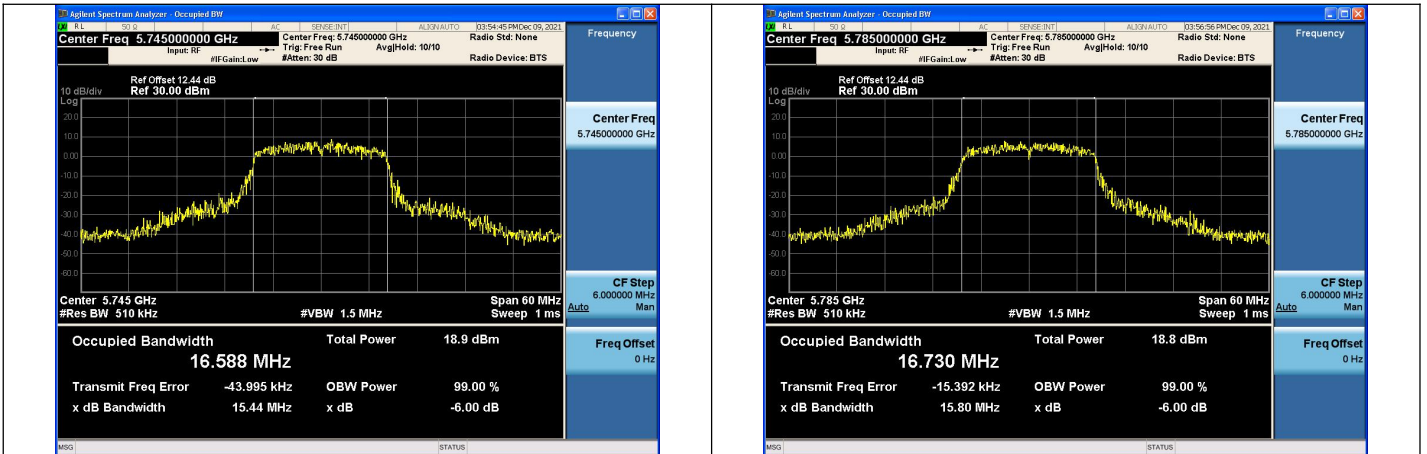
Offset 12.44dB = Attenuator 10dB + Temporary antenna connector loss 0.2dB + Cable loss 2.24dB

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.667 5745MHz	Channel No.675 5785MHz	Channel No.683 5825MHz
802.11a	Chain0	16.588	16.730	16.615
802.11a	Chain1	16.669	16.809	16.713
802.11n HT20	Chain0	17.654	17.622	17.717
802.11n HT20	Chain1	17.708	17.727	17.650
802.11ac VHT20	Chain0	17.641	17.772	17.690
802.11ac VHT20	Chain1	17.707	17.684	17.633

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.669 5755MHz	---	Channel No.677 5795MHz
802.11n HT40	Chain0	36.156	---	36.143
802.11n HT40	Chain1	36.260	---	36.062
802.11ac VHT40	Chain0	36.323	---	36.241
802.11ac VHT40	Chain1	36.163	---	36.151

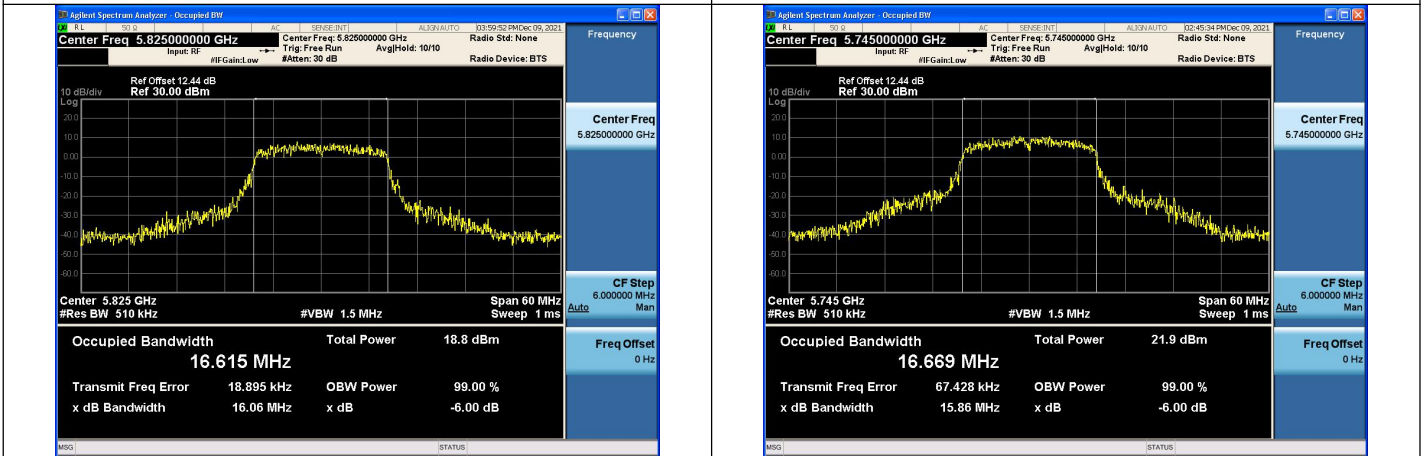
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.673 5775MHz	---	---
802.11ac VHT80	Chain0	76.201	---	---
802.11ac VHT80	Chain1	76.207	---	---

Test Mode: 802.11a



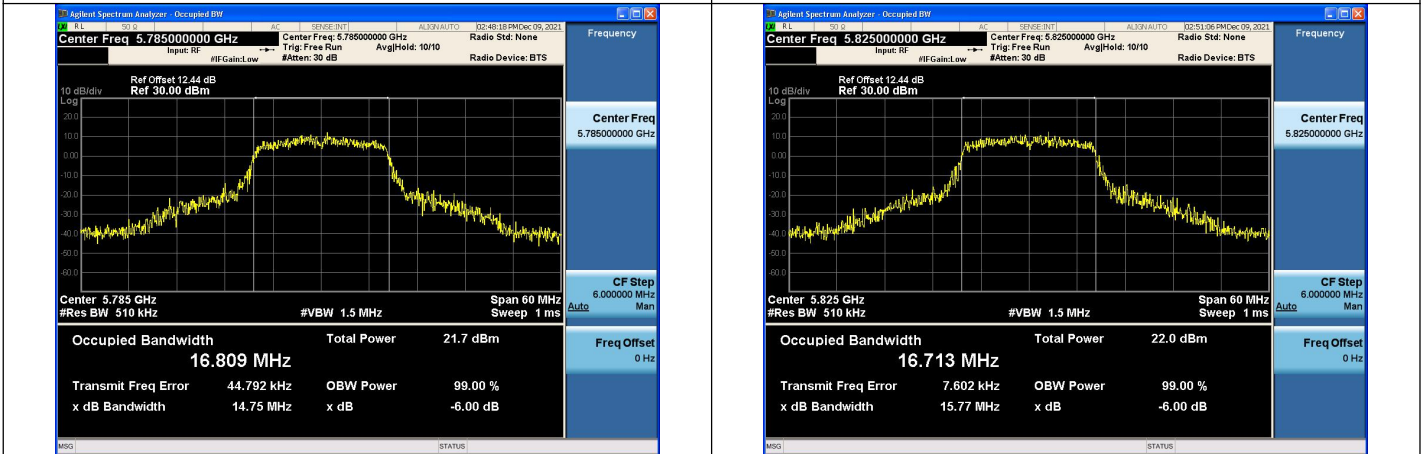
Test Mode:802.11a 5745MHz Chain0

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