

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5745	95.73%	0.19
802.11a	5745	95.08%	0.22
802.11n HT20	5745	95.22%	0.21
802.11n HT20	5745	94.94%	0.23
802.11ac VHT20	5745	95.25%	0.21
802.11ac VHT20	5745	94.99%	0.22
802.11n HT40	5755	92.48%	0.34
802.11n HT40	5755	92.33%	0.35
802.11ac VHT40	5755	92.83%	0.32
802.11ac VHT40	5755	92.32%	0.35
802.11ac VHT80	5775	89.55%	0.48
802.11ac VHT80	5775	88.99%	0.51

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	16.53	20.60
802.11a	NA	5745	Chain1	17.49	19.99
802.11a	NA	5785	Chain0	16.59	20.66
802.11a	NA	5785	Chain1	17.62	20.12
802.11a	NA	5825	Chain0	16.54	20.61
802.11a	NA	5825	Chain1	17.59	20.09
802.11n HT20	NA	5745	Chain0	15.42	19.49
802.11n HT20	NA	5745	Chain1	16.63	19.13
802.11n HT20	NA	5745	MIMO	19.08	22.43
802.11n HT20	NA	5785	Chain0	15.57	19.64
802.11n HT20	NA	5785	Chain1	16.65	19.15
802.11n HT20	NA	5785	MIMO	19.15	22.50
802.11n HT20	NA	5825	Chain0	15.67	19.74
802.11n HT20	NA	5825	Chain1	16.71	19.21
802.11n HT20	NA	5825	MIMO	19.23	22.58
802.11ac VHT20	NA	5745	Chain0	16.32	20.39
802.11ac VHT20	NA	5745	Chain1	16.63	19.13
802.11ac VHT20	NA	5745	MIMO	19.49	22.84
802.11ac VHT20	NA	5785	Chain0	16.39	20.46
802.11ac VHT20	NA	5785	Chain1	16.76	19.26
802.11ac VHT20	NA	5785	MIMO	19.59	22.94
802.11ac VHT20	NA	5825	Chain0	16.08	20.15
802.11ac VHT20	NA	5825	Chain1	16.96	19.46
802.11ac VHT20	NA	5825	MIMO	19.55	22.90
802.11n HT40	NA	5755	Chain0	14.80	18.87
802.11n HT40	NA	5755	Chain1	14.90	17.40

802.11n HT40	NA	5755	MIMO	17.86	21.21
802.11n HT40	NA	5795	Chain0	14.74	18.81
802.11n HT40	NA	5795	Chain1	15.48	17.98
802.11n HT40	NA	5795	MIMO	18.14	21.49
802.11ac VHT40	NA	5755	Chain0	15.82	19.89
802.11ac VHT40	NA	5755	Chain1	15.45	17.95
802.11ac VHT40	NA	5755	MIMO	18.65	22.00
802.11ac VHT40	NA	5795	Chain0	15.44	19.51
802.11ac VHT40	NA	5795	Chain1	15.85	18.35
802.11ac VHT40	NA	5795	MIMO	18.66	22.01
802.11ac VHT80	NA	5775	Chain0	13.18	17.25
802.11ac VHT80	NA	5775	Chain1	13.52	16.02
802.11ac VHT80	NA	5775	MIMO	16.36	19.71

Emission Bandwidth

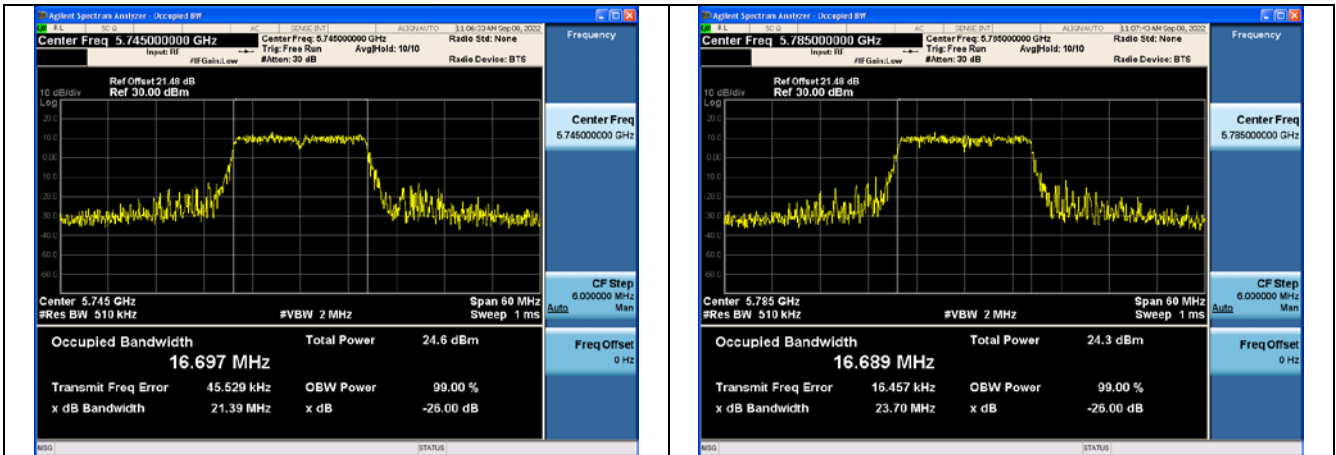
Offset 21.48dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	21.39	23.70	23.06
802.11a	Chain1	20.98	23.90	23.06
802.11n HT20	Chain0	27.21	20.02	26.00
802.11n HT20	Chain1	26.62	20.67	26.24
802.11ac VHT20	Chain0	24.90	24.03	28.16
802.11ac VHT20	Chain1	25.31	27.93	21.28

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	45.75	---	43.72
802.11n HT40	Chain1	41.03	---	47.28
802.11ac VHT40	Chain0	49.91	---	41.38
802.11ac VHT40	Chain1	48.33	---	49.21

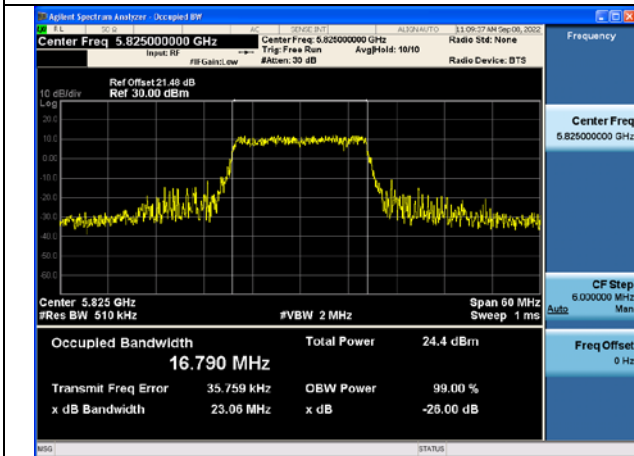
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	86.12	---	---
802.11ac VHT80	Chain1	88.68	---	---

Test Mode: 802.11a

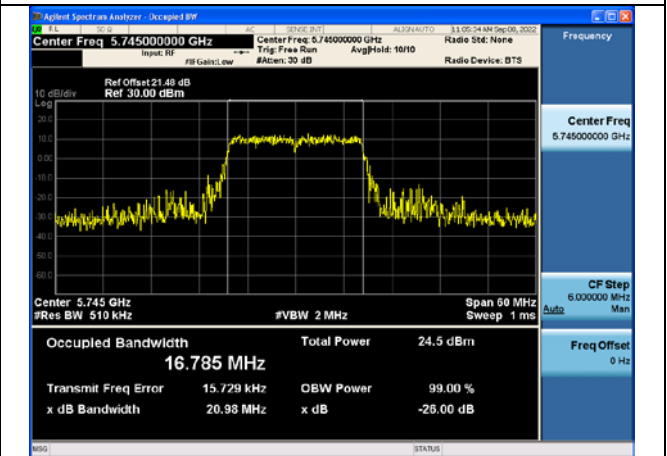


Test Mode:802.11a 5745MHz Chain0

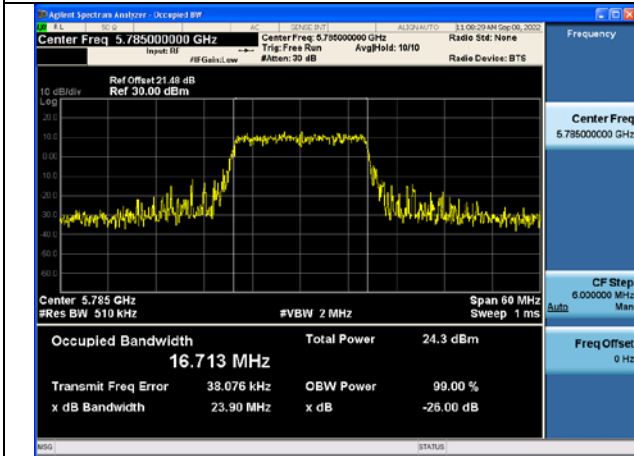
Test Mode:802.11a 5785MHz Chain0



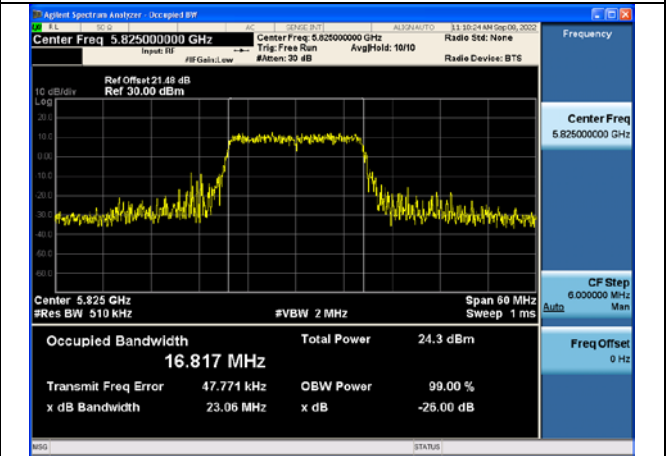
Test Mode:802.11a 5825MHz Chain0



Test Mode:802.11a 5745MHz Chain1

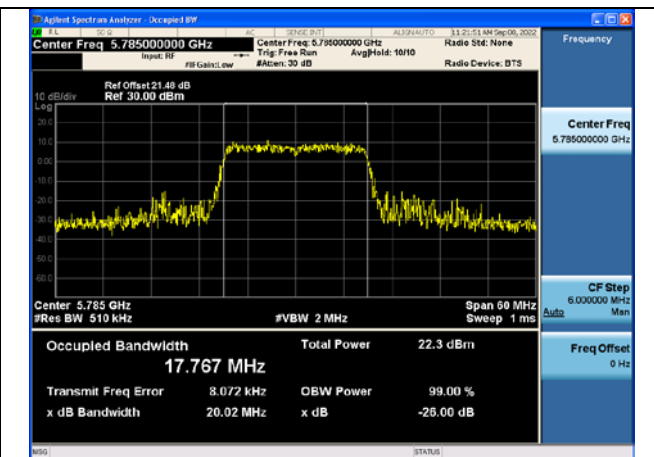
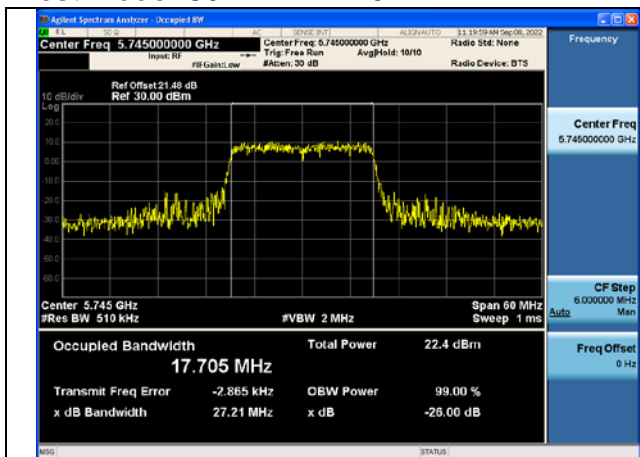


Test Mode:802.11a 5785MHz Chain1



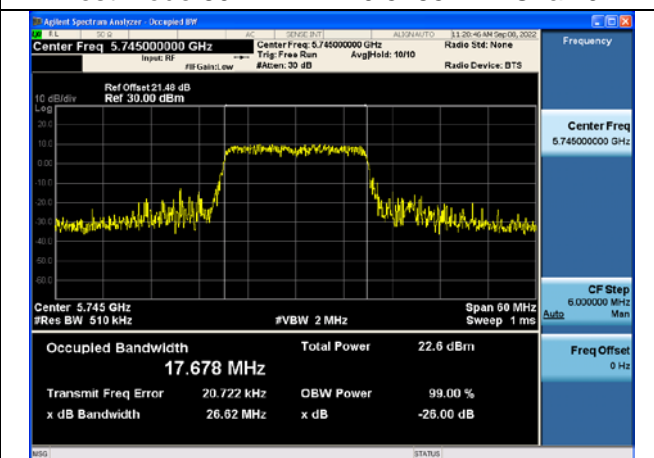
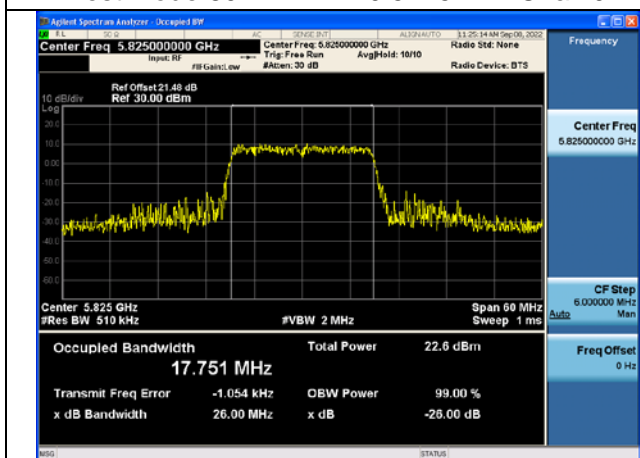
Test Mode:802.11a 5825MHz Chain1

Test Mode: 802.11n HT20



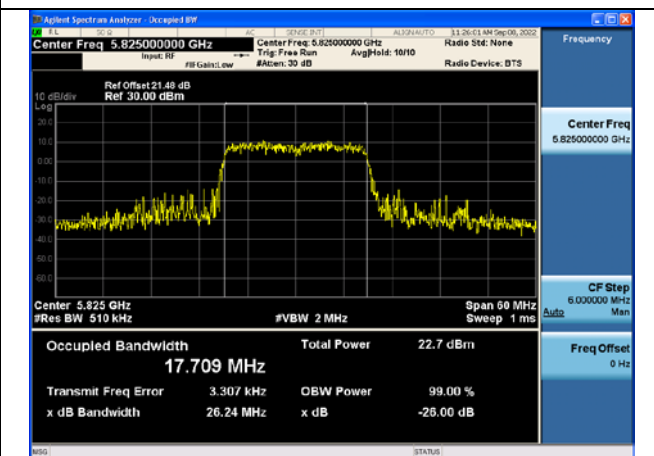
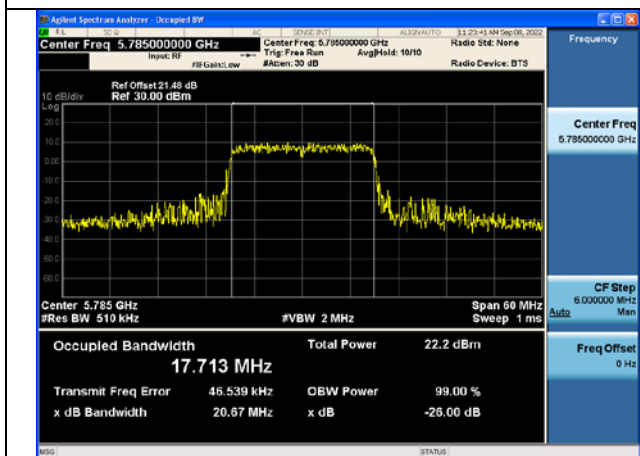
Test Mode:802.11n HT20 5745MHz Chain0

Test Mode:802.11n HT20 5785MHz Chain0



Test Mode:802.11n HT20 5825MHz Chain0

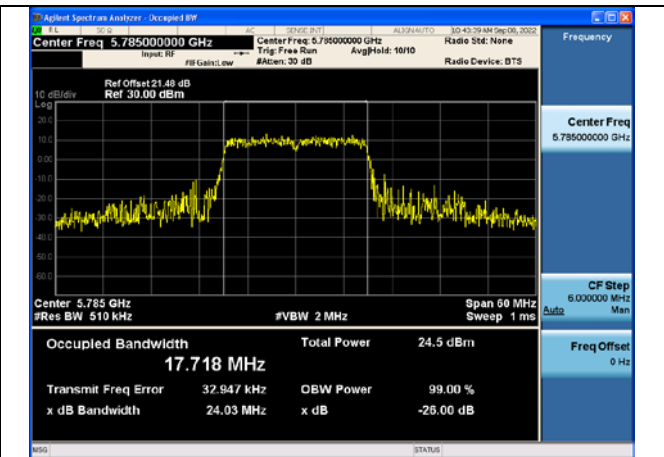
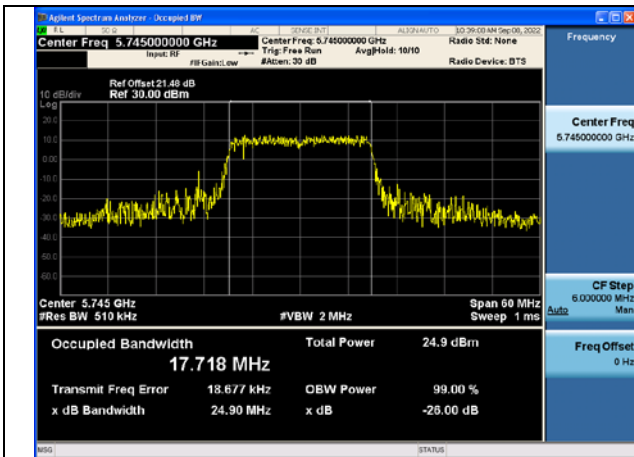
Test Mode:802.11n HT20 5745MHz Chain1



Test Mode:802.11n HT20 5785MHz Chain1

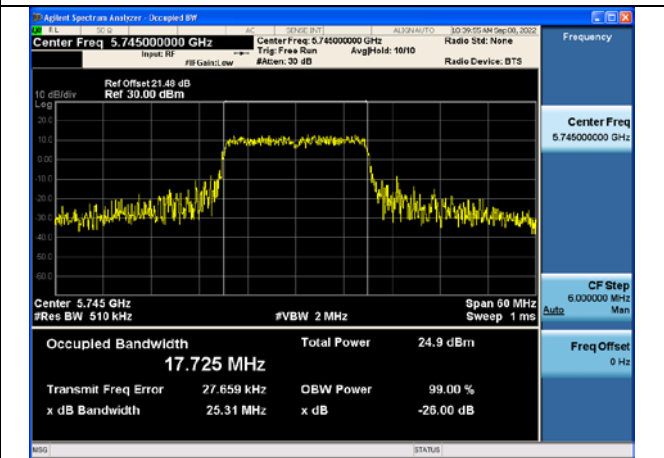
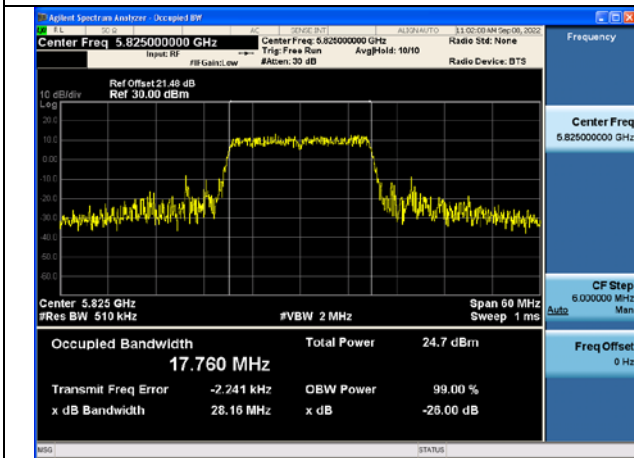
Test Mode:802.11n HT20 5825MHz Chain1

Test Mode: 802.11ac VHT20



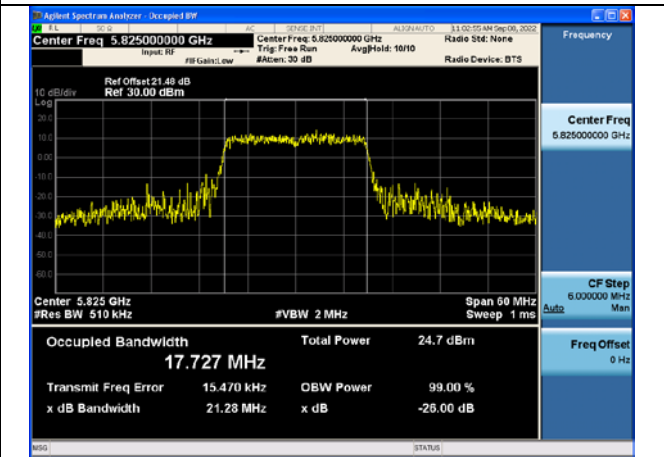
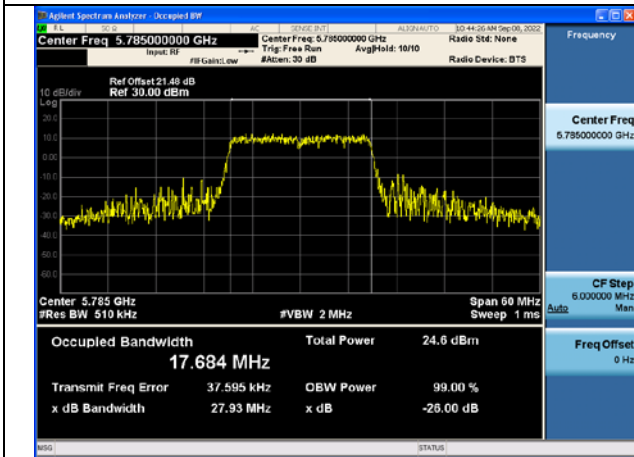
Test Mode:802.11ac VHT20 5745MHz Chain0

Test Mode:802.11ac VHT20 5785MHz Chain0



Test Mode:802.11ac VHT20 5825MHz Chain0

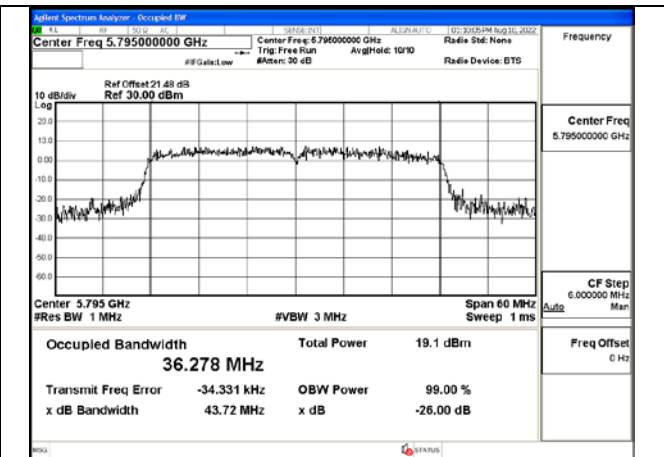
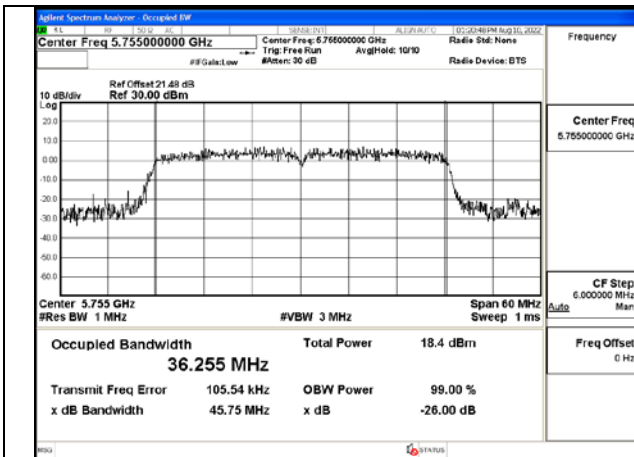
Test Mode:802.11ac VHT20 5745MHz Chain1



Test Mode:802.11ac VHT20 5785MHz Chain1

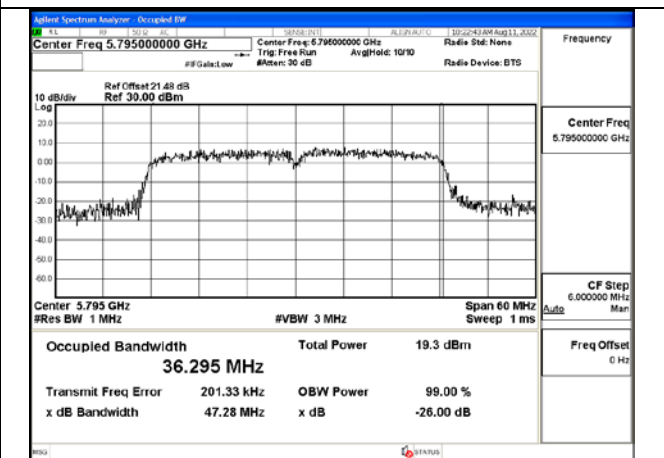
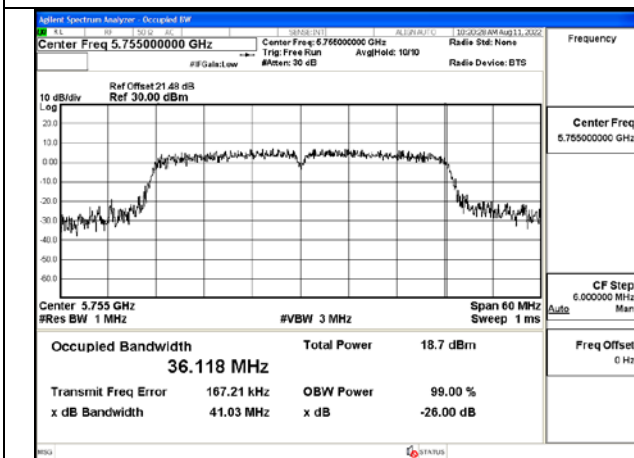
Test Mode:802.11ac VHT20 5825MHz Chain1

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5755MHz Chain0

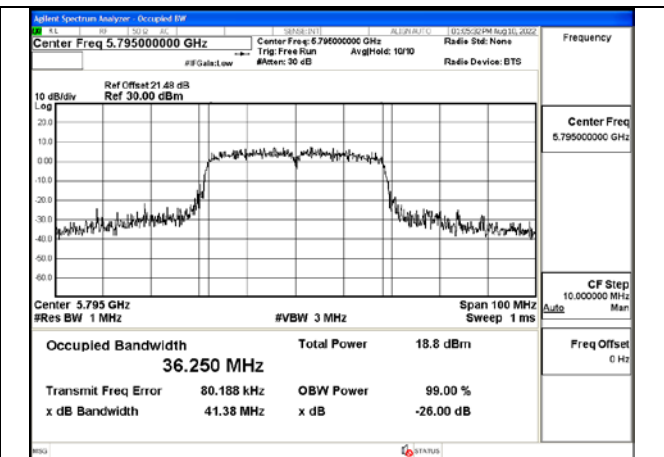
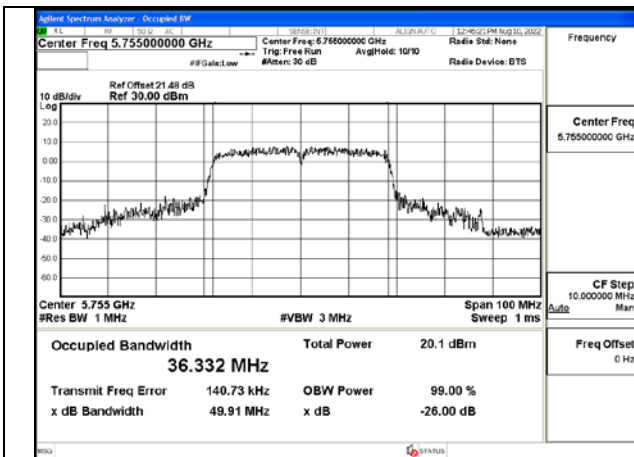
Test Mode:802.11n HT40 5795MHz Chain0



Test Mode:802.11n HT40 5755MHz Chain1

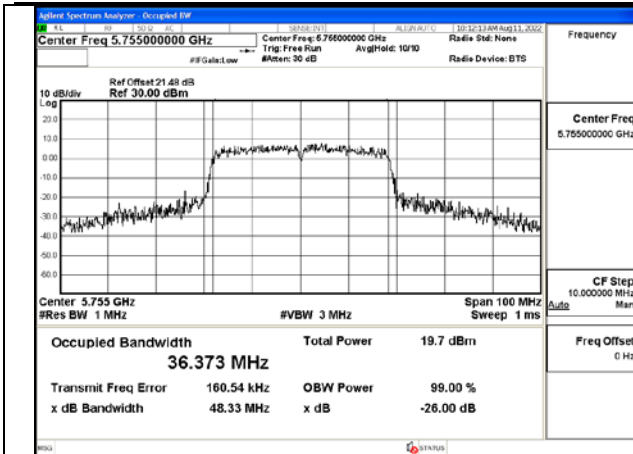
Test Mode:802.11n HT40 5795MHz Chain1

Test Mode: 802.11ac VHT40

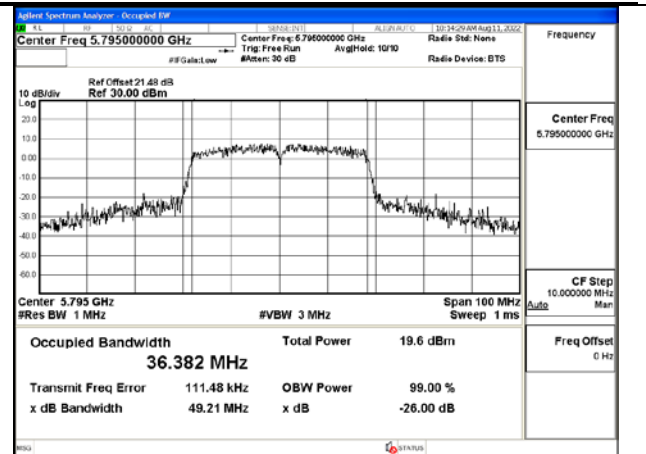


Test Mode:802.11ac VHT40 5755MHz Chain0

Test Mode:802.11ac VHT40 5795MHz Chain0

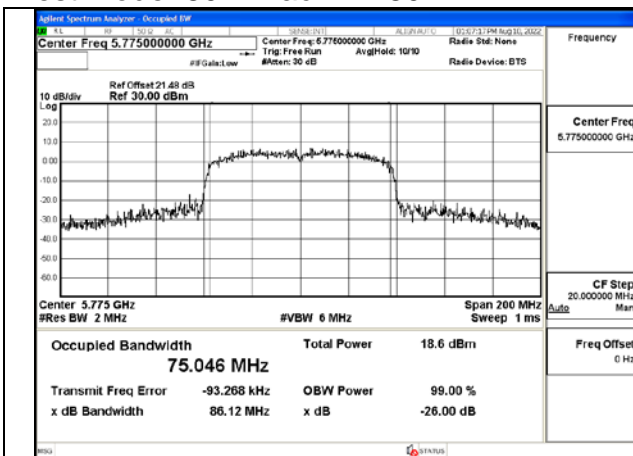


Test Mode:802.11ac VHT40 5755MHz Chain1

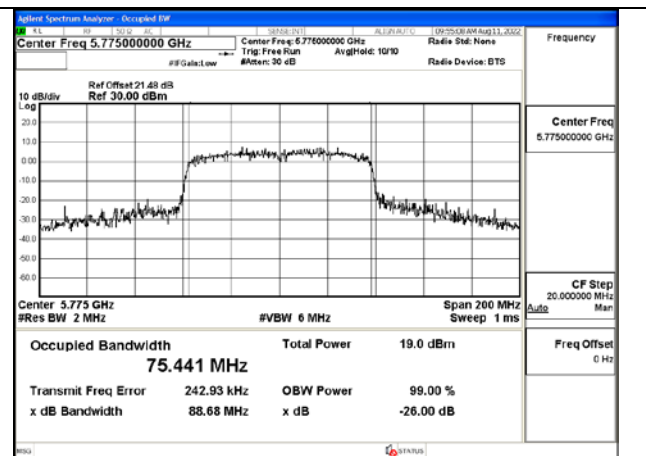


Test Mode:802.11ac VHT40 5795MHz Chain1

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0



Test Mode:802.11ac VHT80 5775MHz Chain1

Occupied Bandwidth

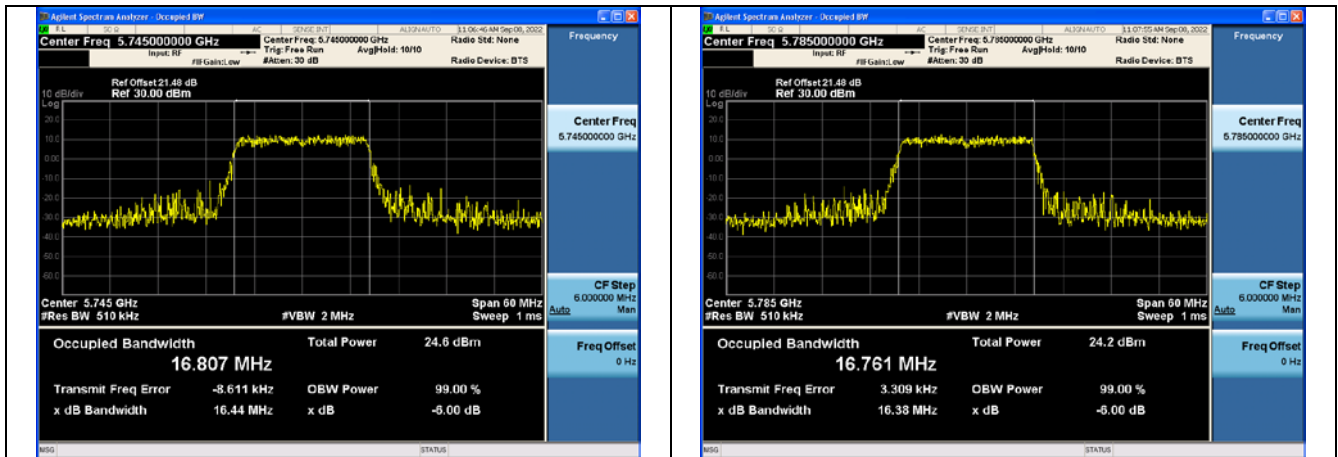
Offset 21.48dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.807	16.761	16.671
802.11a	Chain1	16.781	16.846	16.689
802.11n HT20	Chain0	17.753	17.714	17.674
802.11n HT20	Chain1	17.746	17.721	17.700
802.11ac VHT20	Chain0	17.719	17.744	17.753
802.11ac VHT20	Chain1	17.780	17.697	17.817

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	36.157	---	36.311
802.11n HT40	Chain1	36.301	---	36.450
802.11ac VHT40	Chain0	36.454	---	36.179
802.11ac VHT40	Chain1	36.015	---	36.531

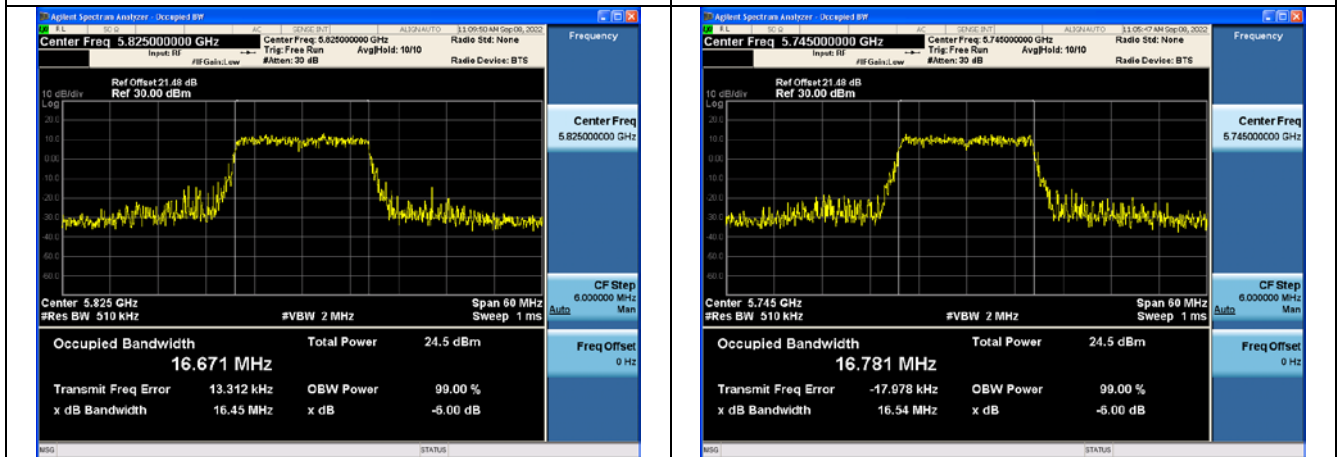
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	75.626	---	---
802.11ac VHT80	Chain1	75.262	---	---

Test Mode: 802.11a



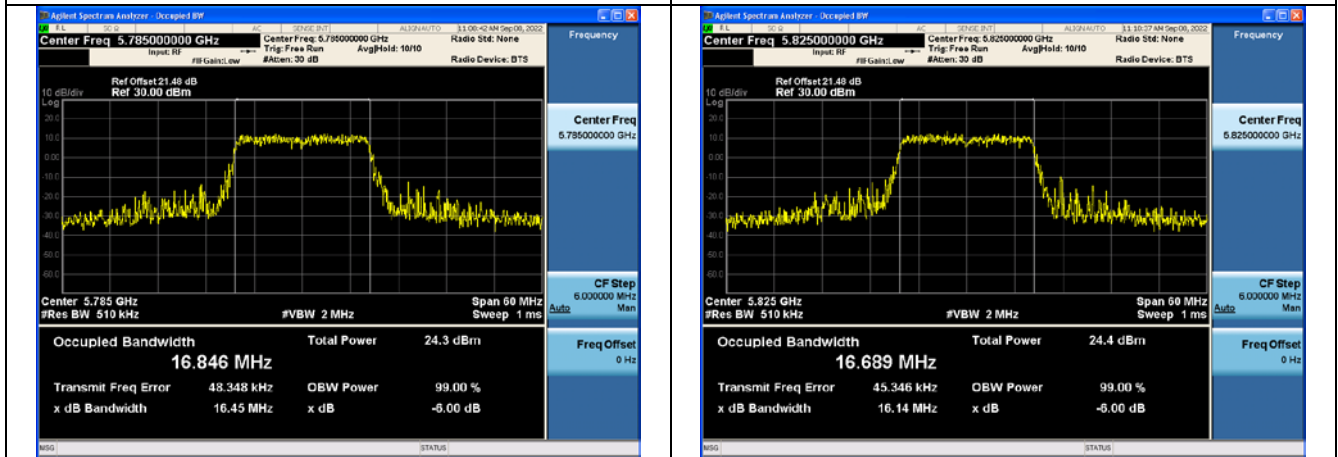
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0



Test Mode:802.11a 5825MHz Chain0

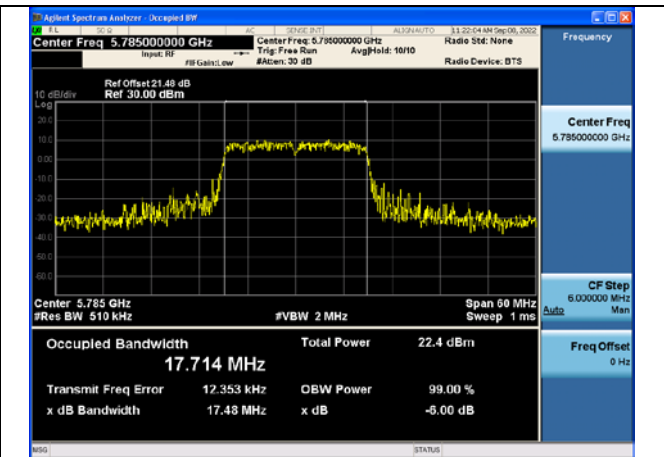
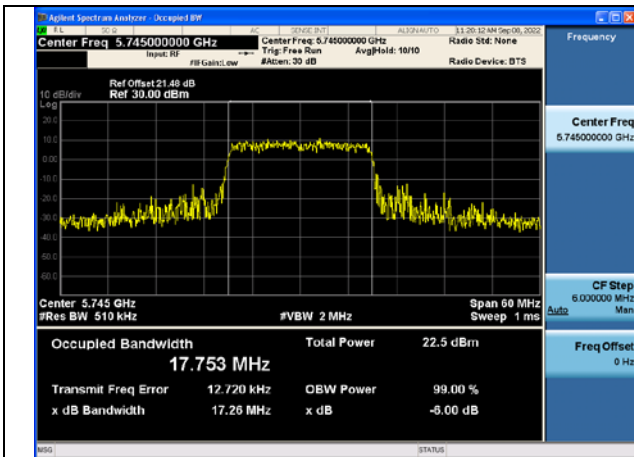
Test Mode:802.11a 5745MHz Chain1



Test Mode:802.11a 5785MHz Chain1

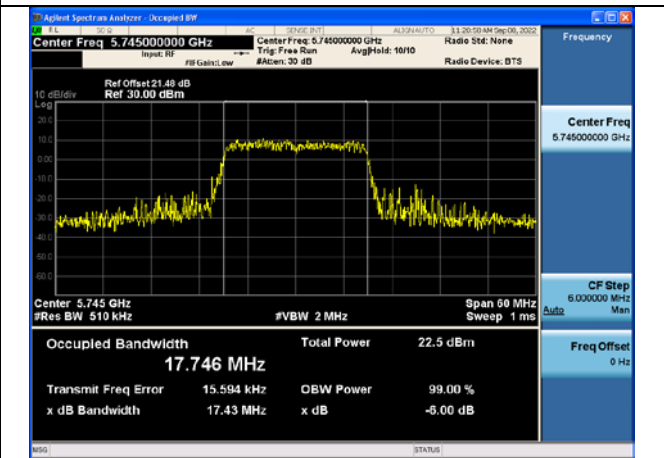
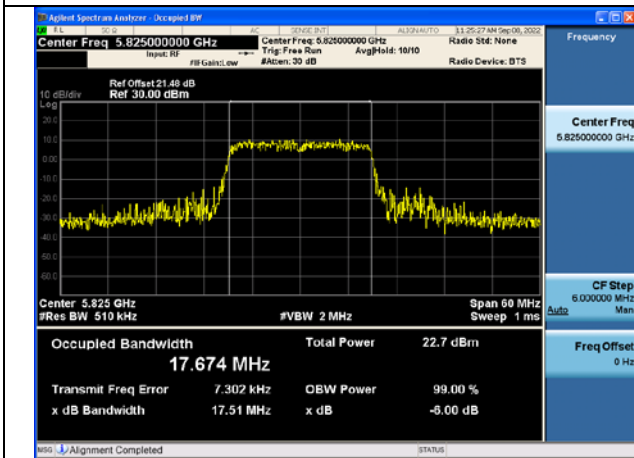
Test Mode:802.11a 5825MHz Chain1

Test Mode: 802.11n HT20



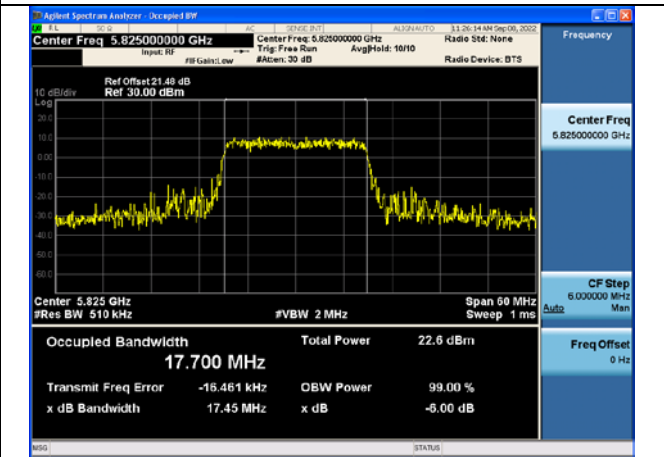
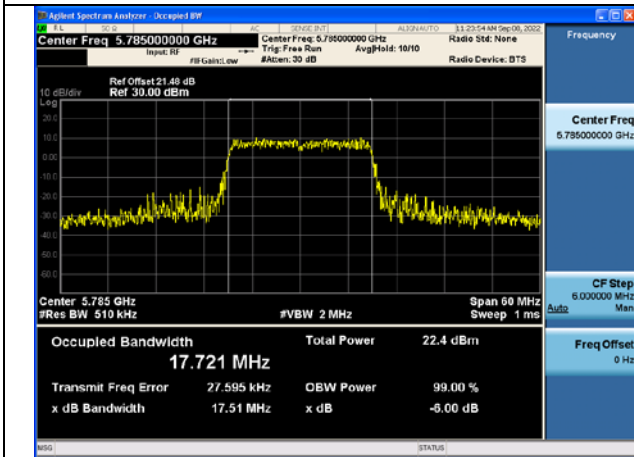
Test Mode:802.11n HT20 5745MHz Chain0

Test Mode:802.11n HT20 5785MHz Chain0



Test Mode:802.11n HT20 5825MHz Chain0

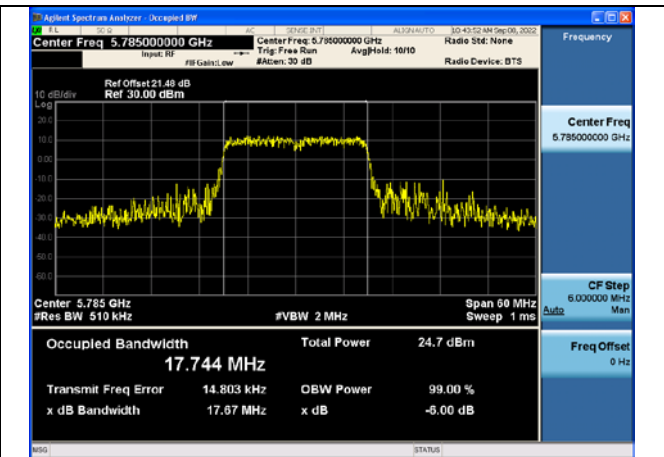
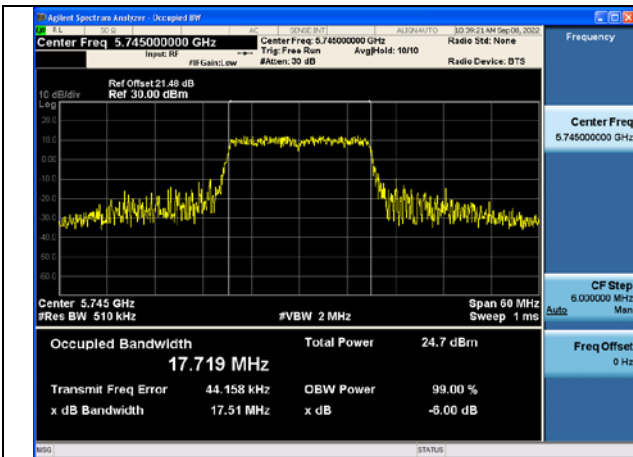
Test Mode:802.11n HT20 5745MHz Chain1



Test Mode:802.11n HT20 5785MHz Chain1

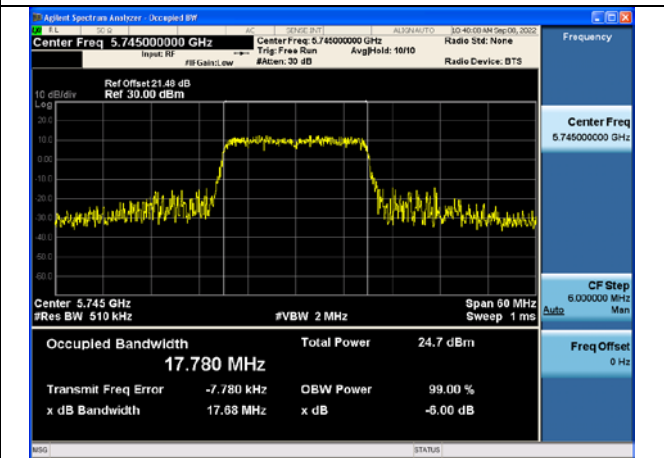
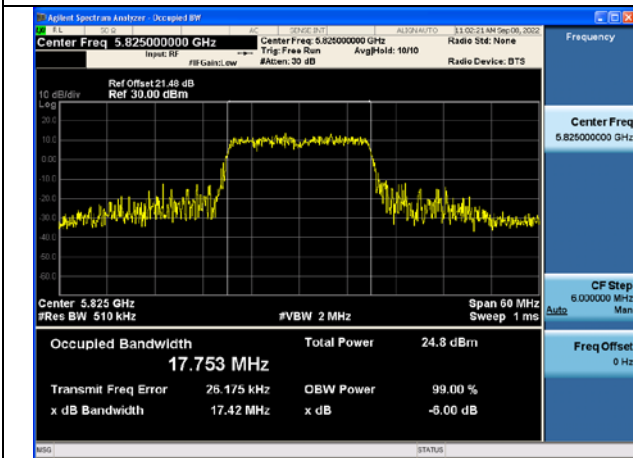
Test Mode:802.11n HT20 5825MHz Chain1

Test Mode: 802.11ac VHT20



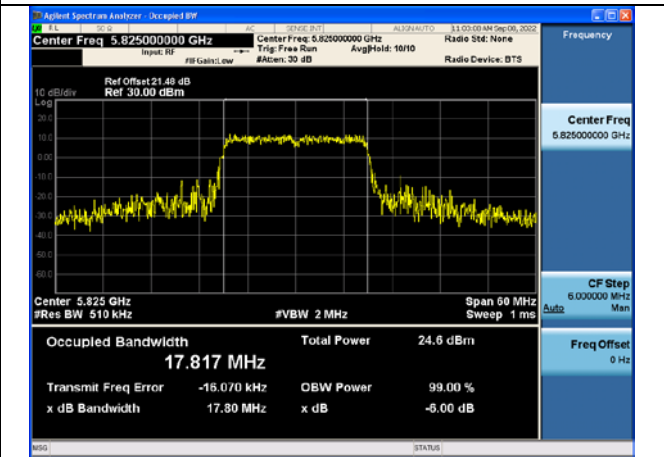
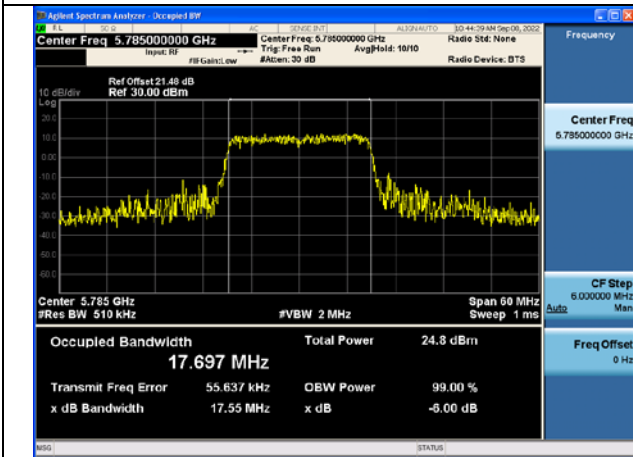
Test Mode:802.11ac VHT20 5745MHz Chain0

Test Mode:802.11ac VHT20 5785MHz Chain0



Test Mode:802.11ac VHT20 5825MHz Chain0

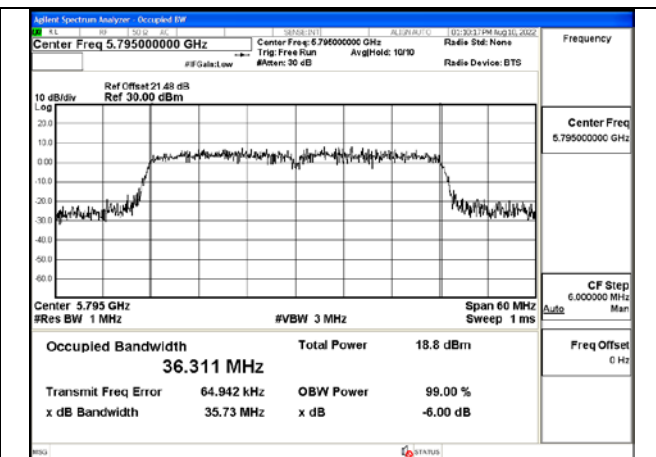
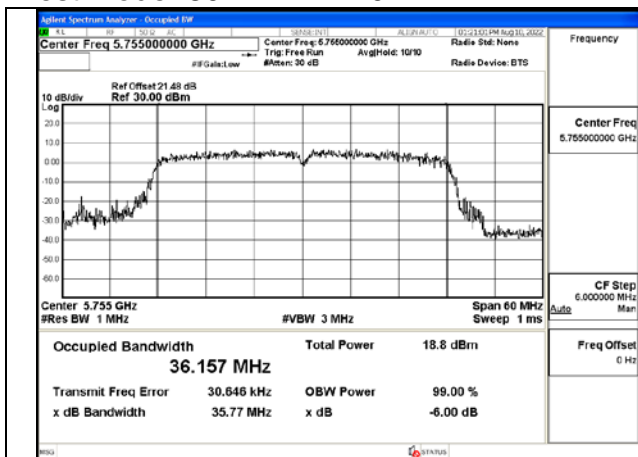
Test Mode:802.11ac VHT20 5745MHz Chain1



Test Mode:802.11ac VHT20 5785MHz Chain1

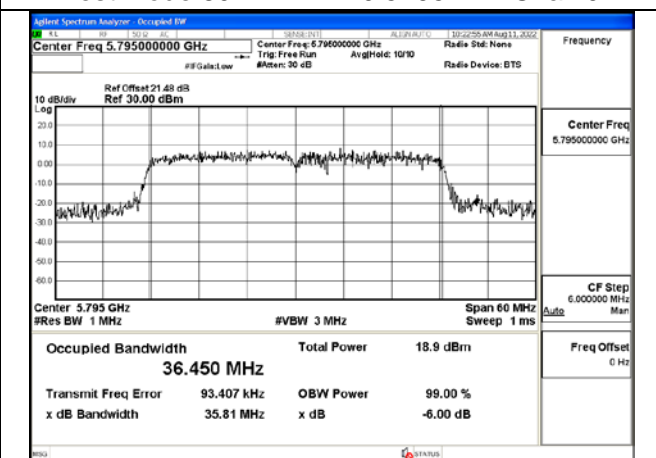
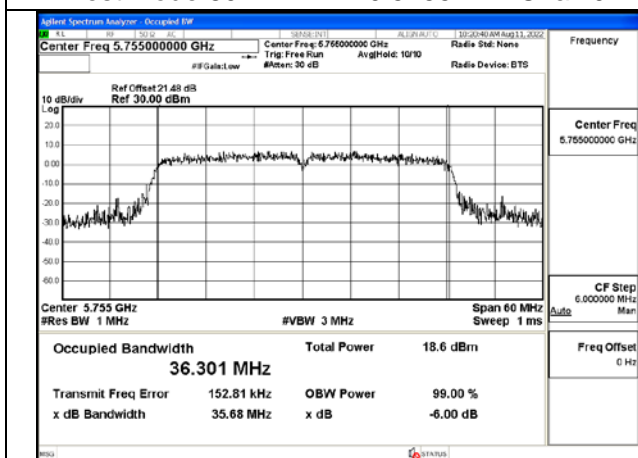
Test Mode:802.11ac VHT20 5825MHz Chain1

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5755MHz Chain0

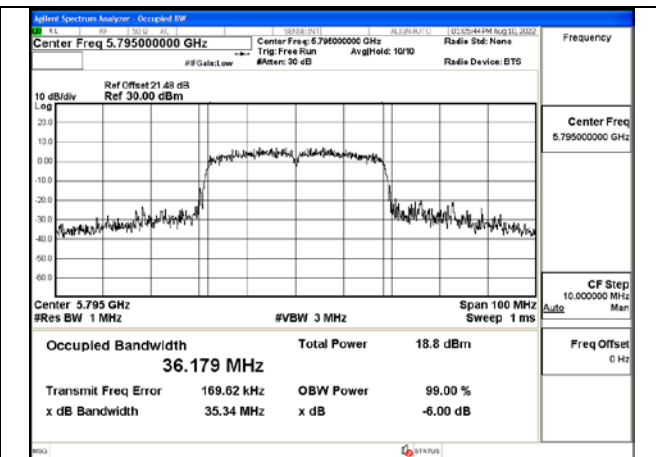
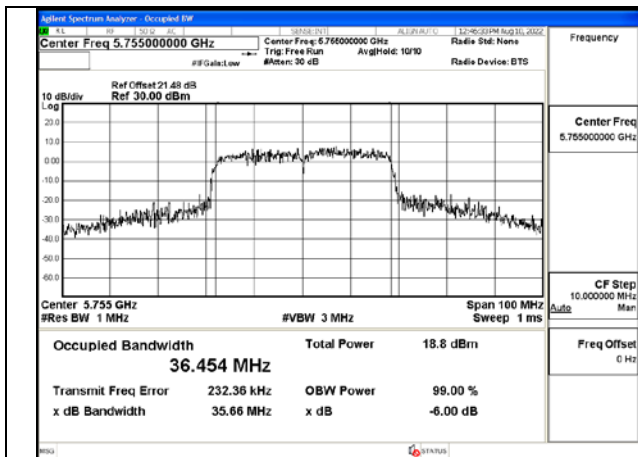
Test Mode:802.11n HT40 5795MHz Chain0



Test Mode:802.11n HT40 5755MHz Chain1

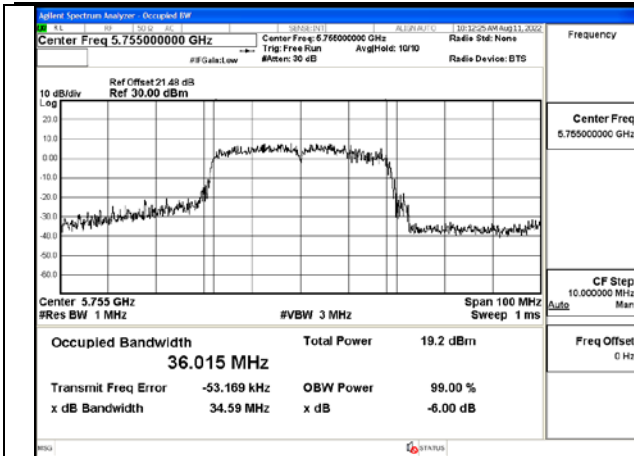
Test Mode:802.11n HT40 5795MHz Chain1

Test Mode: 802.11ac VHT40

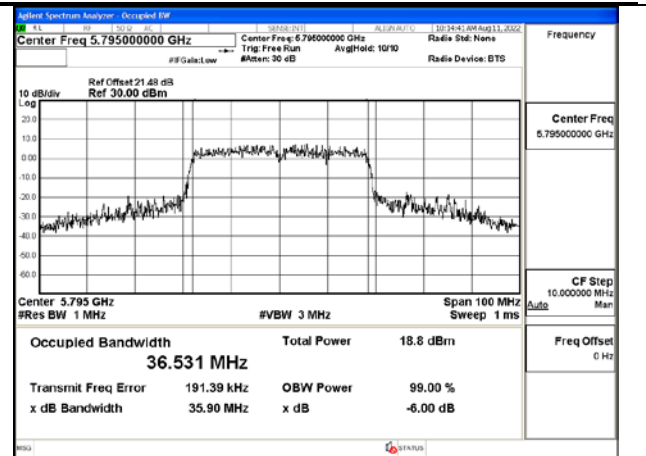


Test Mode:802.11ac VHT40 5755MHz Chain0

Test Mode:802.11ac VHT40 5795MHz Chain0

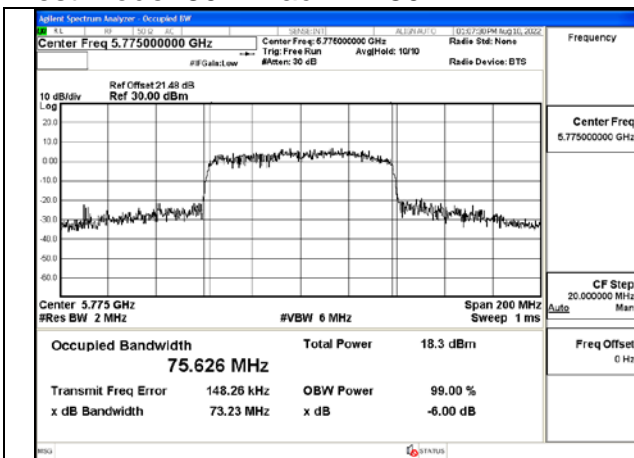


Test Mode:802.11ac VHT40 5755MHz Chain1

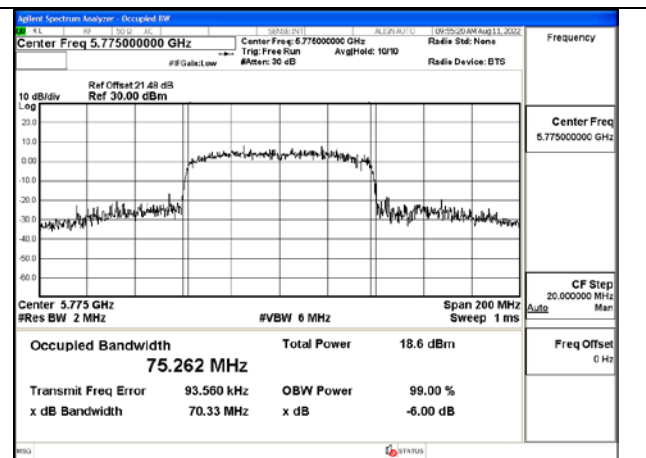


Test Mode:802.11ac VHT40 5795MHz Chain1

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0



Test Mode:802.11ac VHT80 5775MHz Chain1

6dB Bandwidth

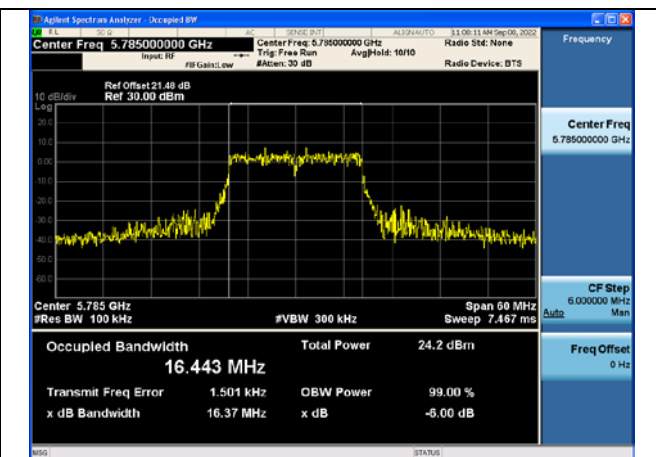
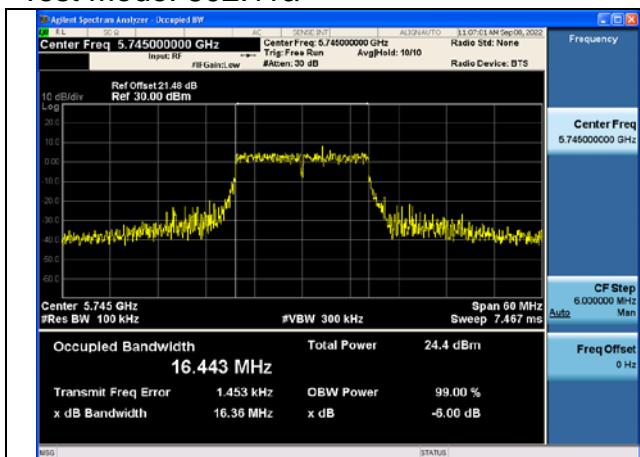
Offset 21.48dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.36	16.37	16.08
802.11a	Chain1	16.43	16.50	16.43
802.11n HT20	Chain0	17.25	17.59	17.59
802.11n HT20	Chain1	17.64	17.45	17.54
802.11ac VHT20	Chain0	17.67	16.39	17.62
802.11ac VHT20	Chain1	17.54	17.29	16.86

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	35.94	---	35.34
802.11n HT40	Chain1	29.42	---	33.16
802.11ac VHT40	Chain0	36.38	---	35.26
802.11ac VHT40	Chain1	34.52	---	33.14

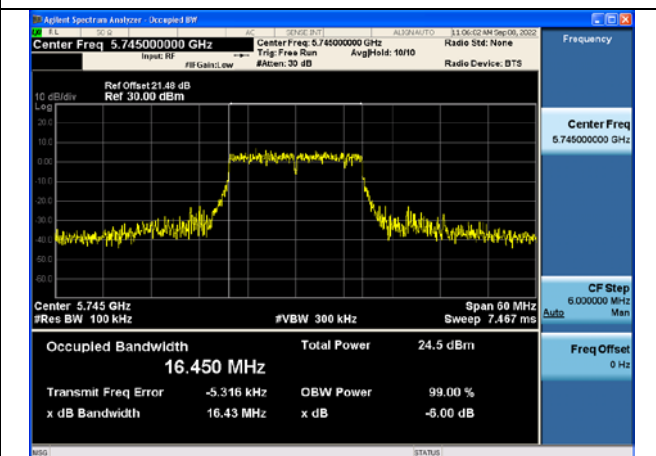
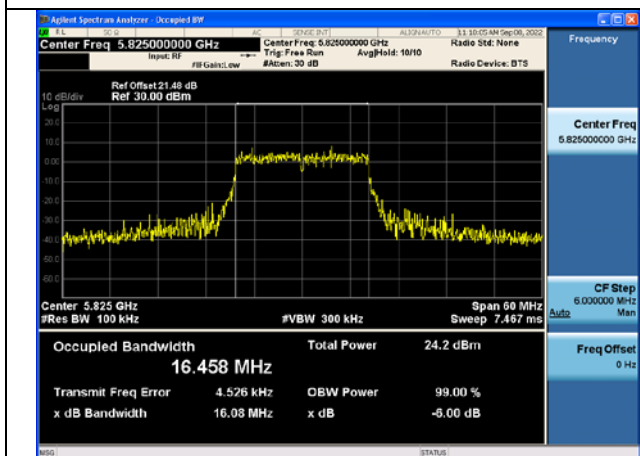
Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	64.38	---	---
802.11ac VHT80	Chain1	69.52	---	---

Test Mode: 802.11a



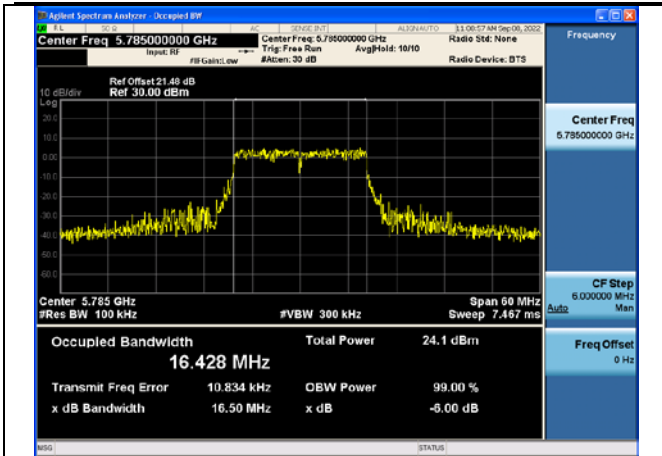
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0

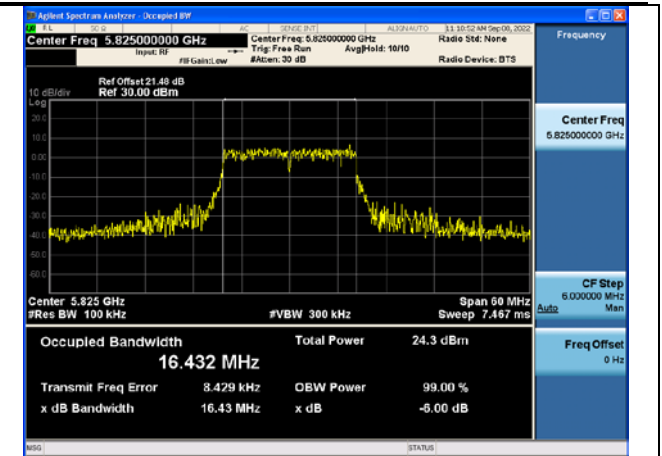


Test Mode:802.11a 5825MHz Chain0

Test Mode:802.11a 5745MHz Chain1

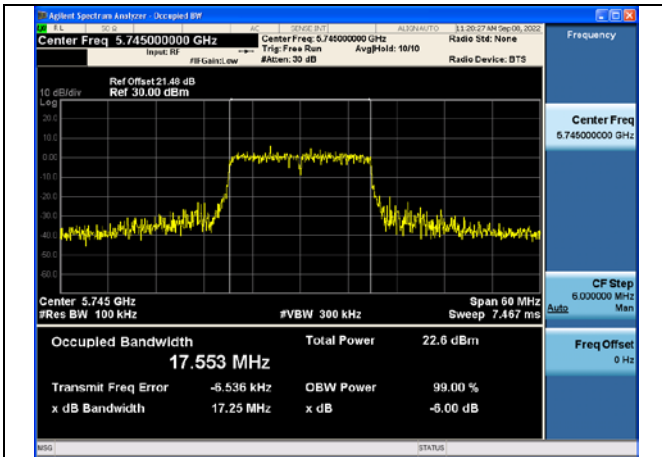


Test Mode:802.11a 5785MHz Chain1

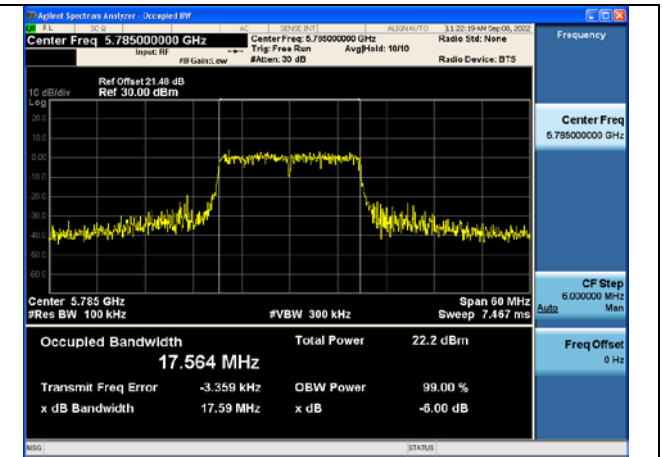


Test Mode:802.11a 5825MHz Chain1

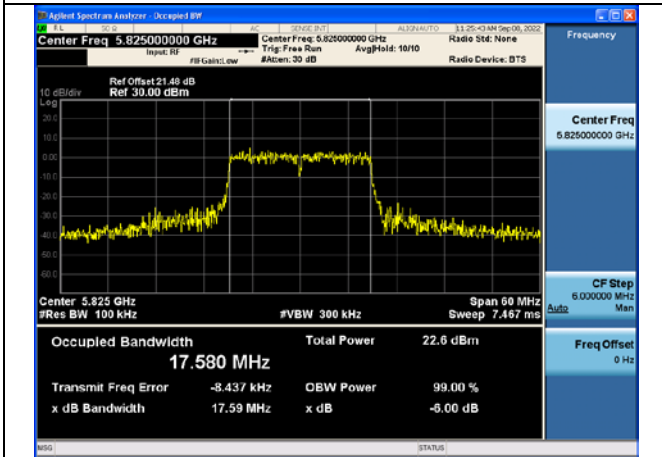
Test Mode: 802.11n HT20



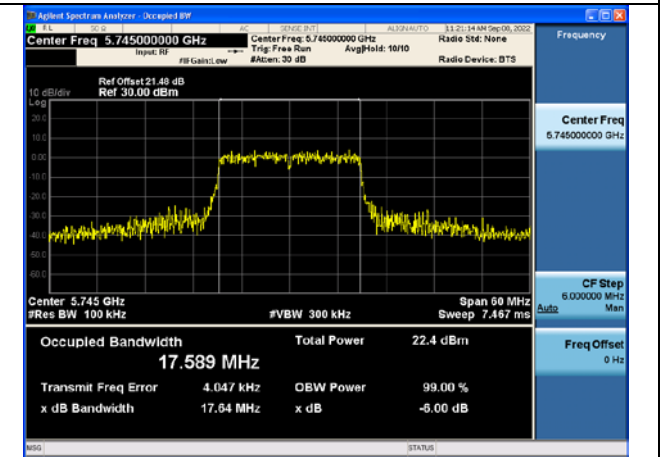
Test Mode:802.11n HT20 5745MHz Chain0



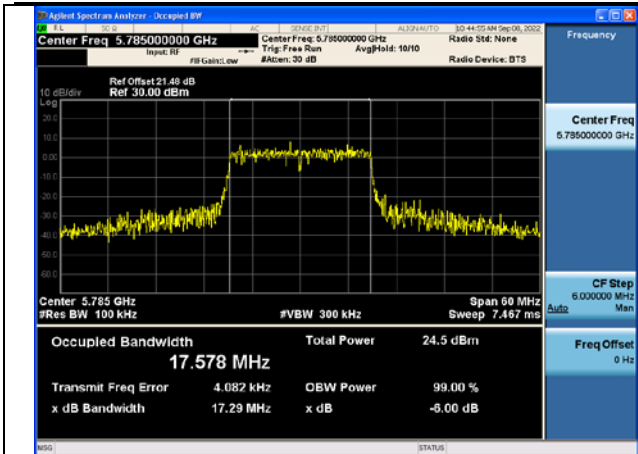
Test Mode:802.11n HT20 5785MHz Chain0



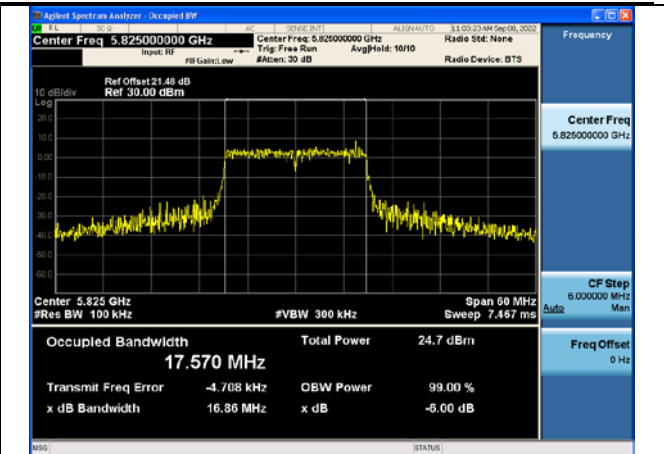
Test Mode:802.11n HT20 5825MHz Chain0



Test Mode:802.11n HT20 5745MHz Chain1

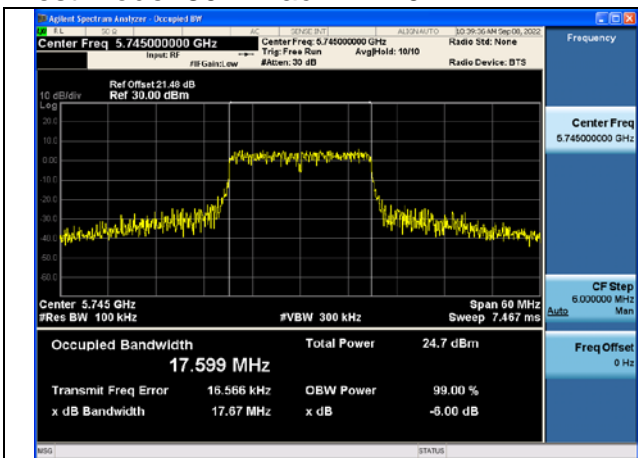


Test Mode:802.11n HT20 5785MHz Chain1

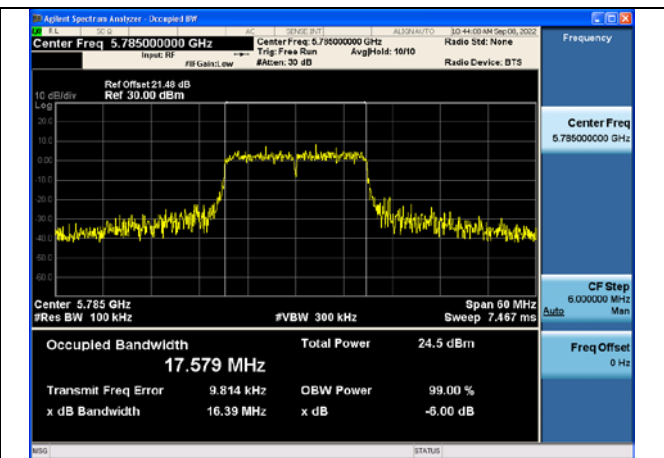


Test Mode:802.11n HT20 5825MHz Chain1

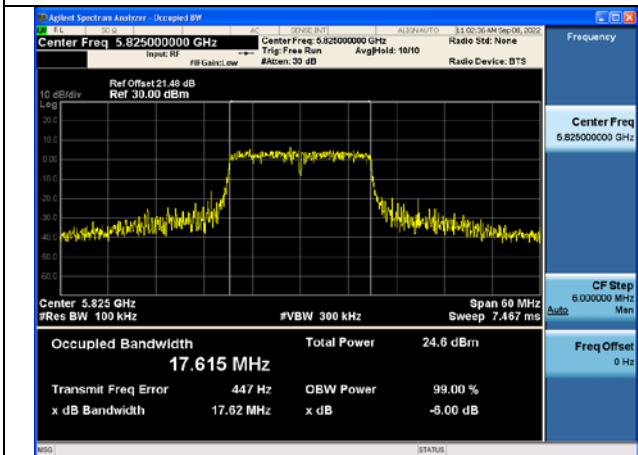
Test Mode: 802.11ac VHT20



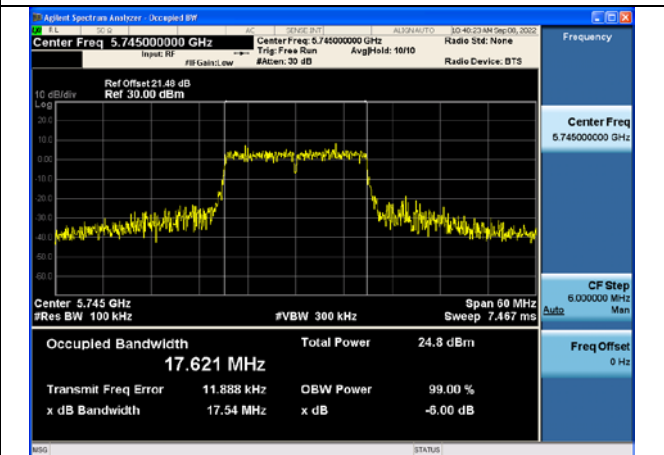
Test Mode:802.11ac VHT20 5745MHz Chain0



Test Mode:802.11ac VHT20 5785MHz Chain0



Test Mode:802.11ac VHT20 5825MHz Chain0



Test Mode:802.11ac VHT20 5745MHz Chain1