

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5745	99.96%	0	Fig.1
802.11n HT20	5745	99.95%	0	Fig.2
802.11ac VHT20	5745	99.96%	0	Fig.3
802.11n HT40	5755	99.93%	0	Fig.4
802.11ac VHT40	5755	99.91%	0	Fig.5
802.11ac VHT80	5775	99.84%	0	Fig.6

Note: Correction Factor=10*log (1/Duty Cycle)

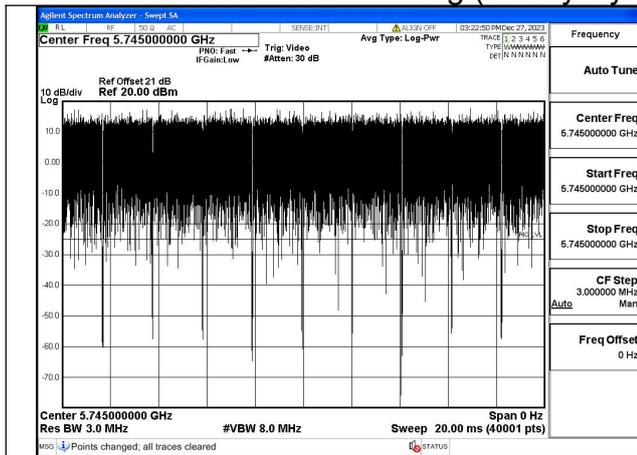


Fig.1

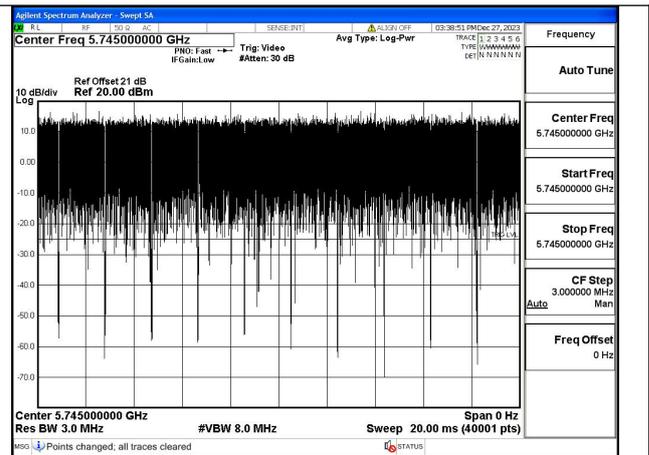


Fig.2

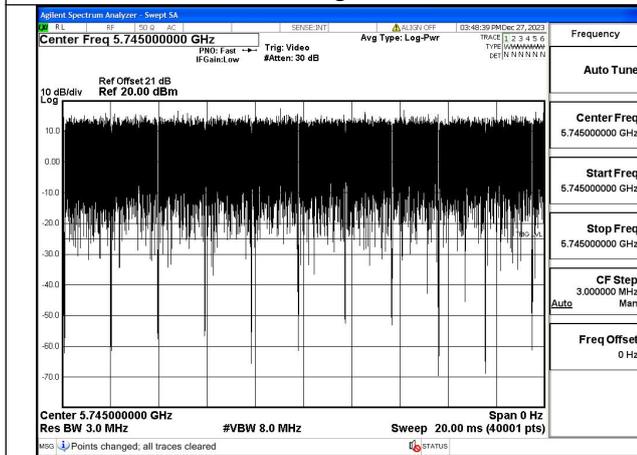


Fig.3

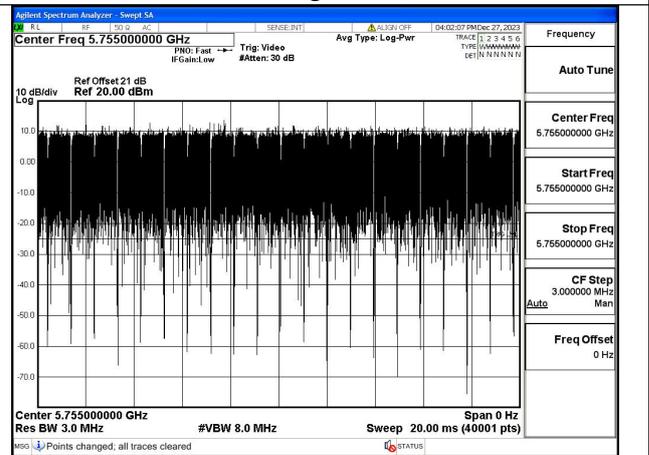


Fig.4

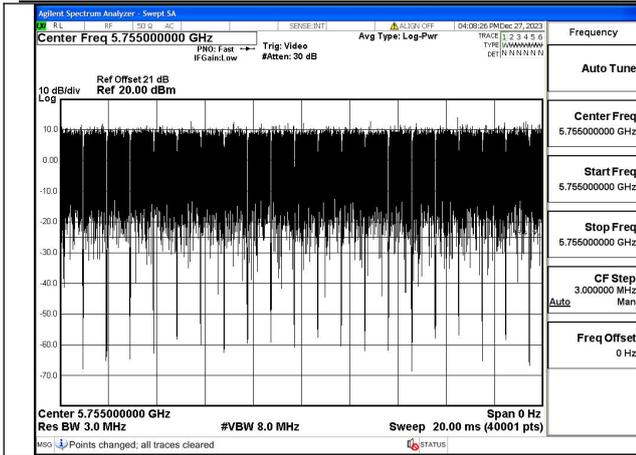


Fig.5

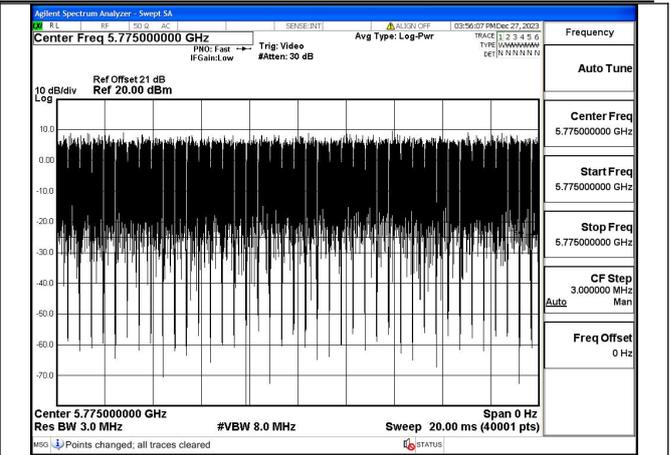


Fig.6

Output Power

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5745	Chain0	10.41	7.91
802.11a	NA	5785	Chain0	11.03	8.53
802.11a	NA	5825	Chain0	11.11	8.61
802.11n HT20	NA	5745	Chain0	10.46	7.96
802.11n HT20	NA	5785	Chain0	10.98	8.48
802.11n HT20	NA	5825	Chain0	11.07	8.57
802.11ac VHT20	NA	5745	Chain0	10.44	7.94
802.11ac VHT20	NA	5785	Chain0	11.01	8.51
802.11ac VHT20	NA	5825	Chain0	11.14	8.64
802.11n HT40	NA	5755	Chain0	10.33	7.83
802.11n HT40	NA	5795	Chain0	10.85	8.35
802.11ac VHT40	NA	5755	Chain0	10.32	7.82
802.11ac VHT40	NA	5795	Chain0	10.89	8.39
802.11ac VHT80	NA	5775	Chain0	10.58	8.08

Emission Bandwidth

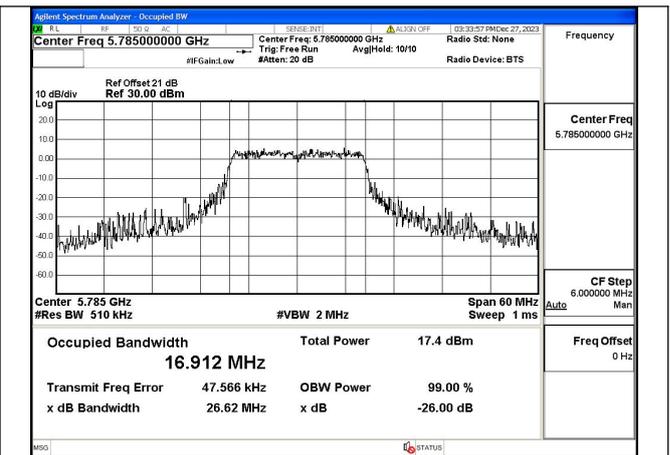
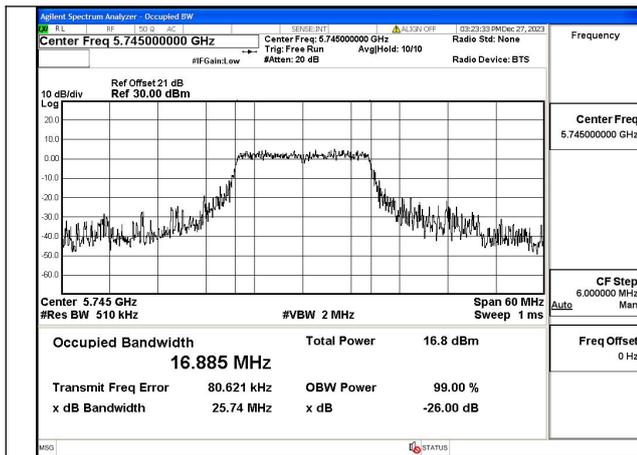
Offset 21dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	25.74	26.62	22.37
802.11n HT20	Chain0	27.37	28.15	22.83
802.11ac VHT20	Chain0	23.31	28.61	22.45

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5755MHz	---	5795MHz
802.11n HT40	Chain0	41.86	---	49.24
802.11ac VHT40	Chain0	41.37	---	42.84

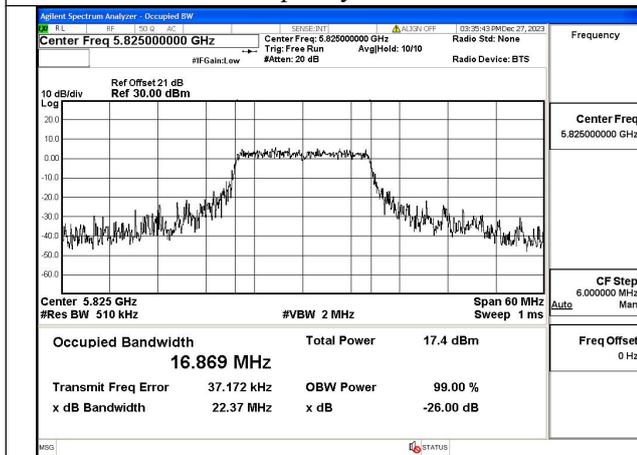
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5775MHz	---	---
802.11ac VHT80	Chain0	85.83	---	---

Test Mode: 802.11a



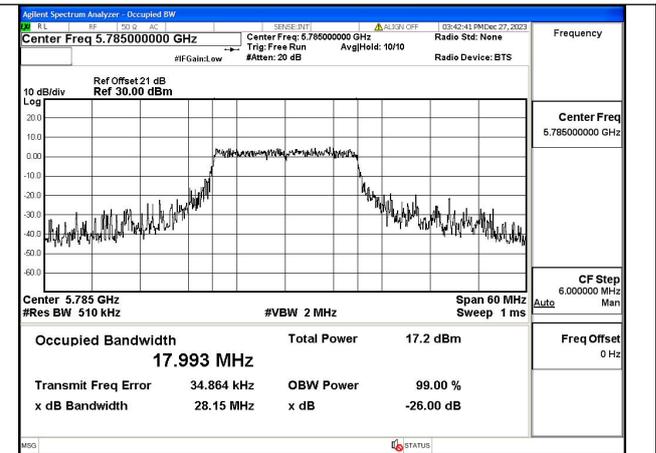
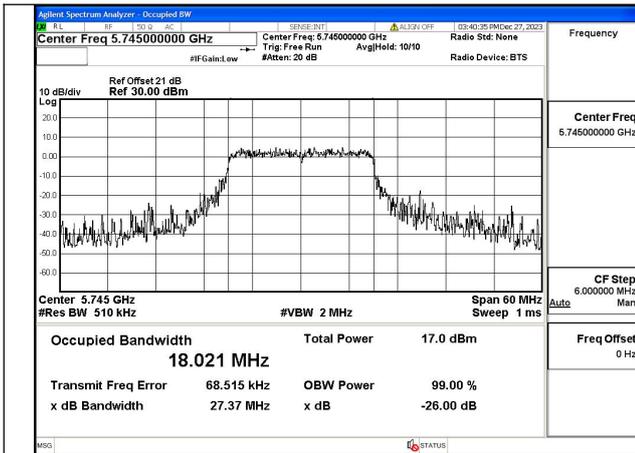
Mode:802.11a Frequency:5745MHz Ant:Chain0

Mode:802.11a Frequency:5785MHz Ant:Chain0



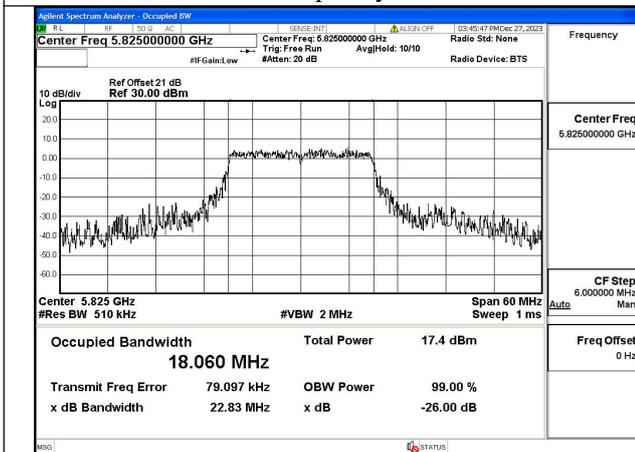
Mode:802.11a Frequency:5825MHz Ant:Chain0

Test Mode: 802.11n HT20



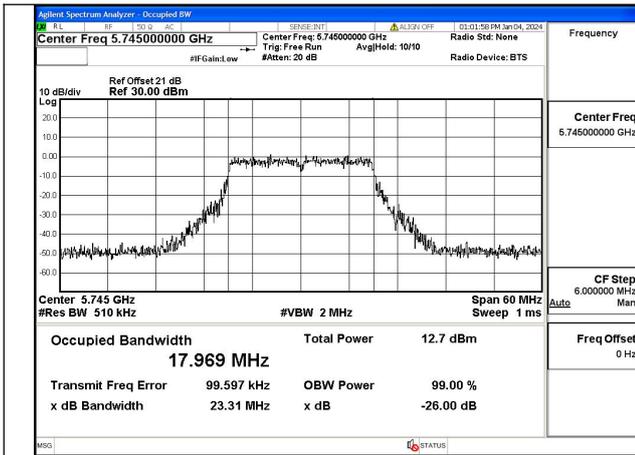
Mode:802.11n HT20 Frequency:5745MHz Ant:Chain0

Mode:802.11n HT20 Frequency:5785MHz Ant:Chain0

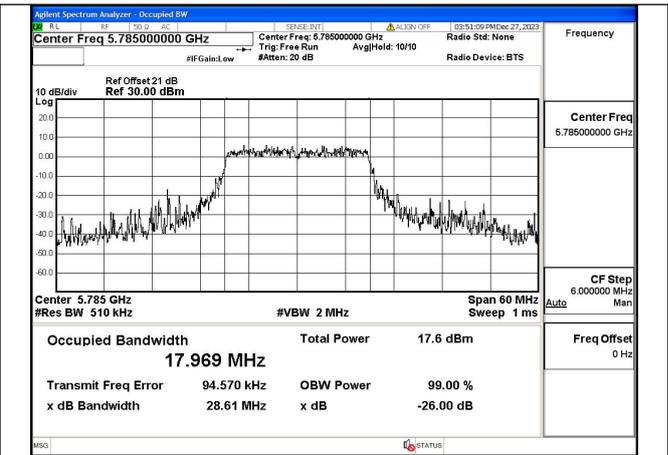


Mode:802.11n HT20 Frequency:5825MHz Ant:Chain0

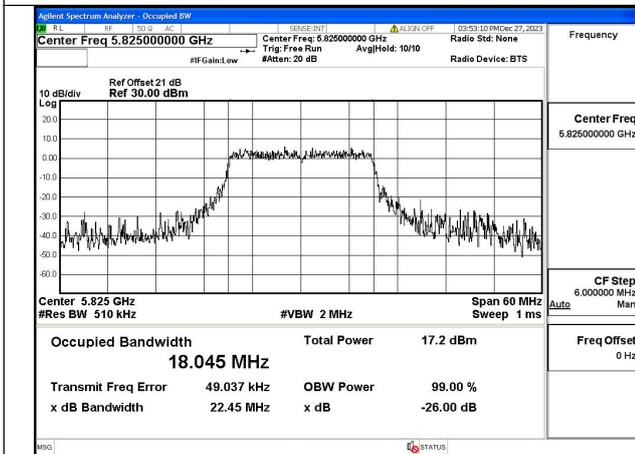
Test Mode: 802.11ac VHT20



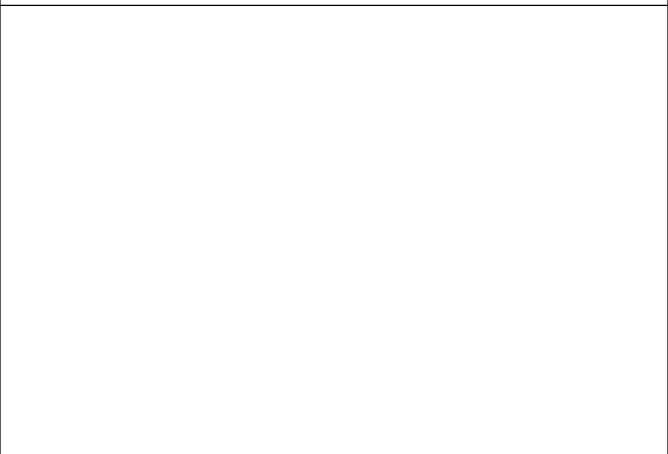
Mode:802.11ac VHT20 Frequency:5745MHz
Ant:Chain0



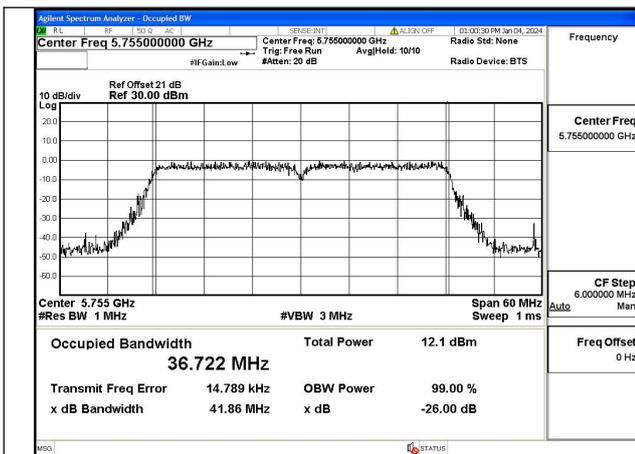
Mode:802.11ac VHT20 Frequency:5785MHz
Ant:Chain0



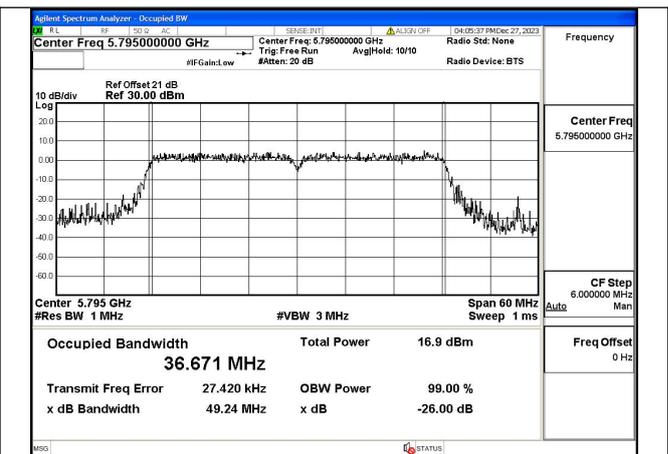
Mode:802.11ac VHT20 Frequency:5825MHz
Ant:Chain0



Test Mode: 802.11n HT40

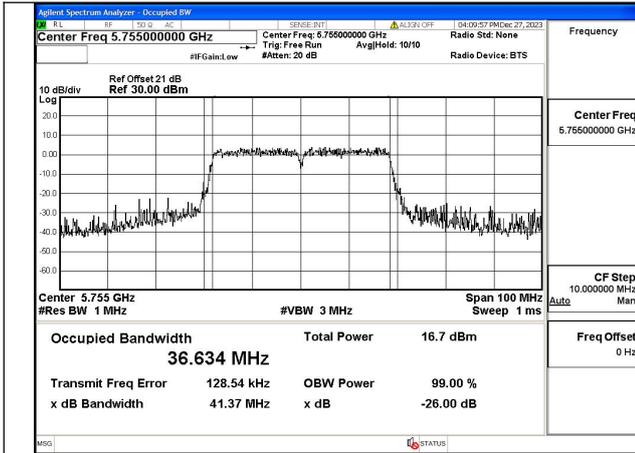


Mode:802.11n HT40 Frequency:5755MHz Ant:Chain0

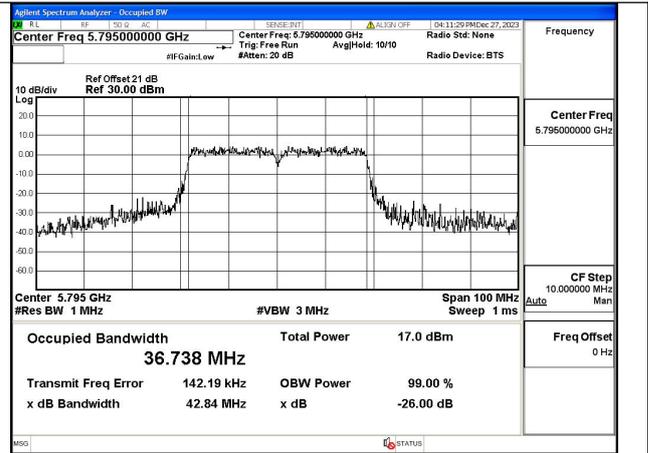


Mode:802.11n HT40 Frequency:5795MHz Ant:Chain0

Test Mode: 802.11ac VHT40

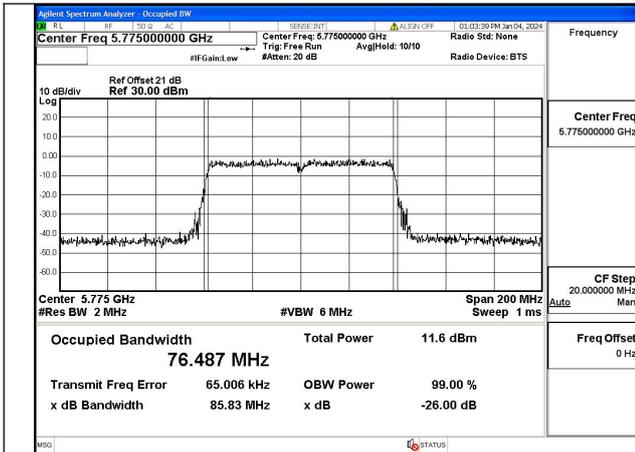


Mode:802.11ac VHT40 Frequency:5755MHz
Ant:Chain0



Mode:802.11ac VHT40 Frequency:5795MHz
Ant:Chain0

Test Mode: 802.11ac VHT80



Mode:802.11ac VHT80 Frequency:5775MHz
Ant:Chain0

Occupied Bandwidth

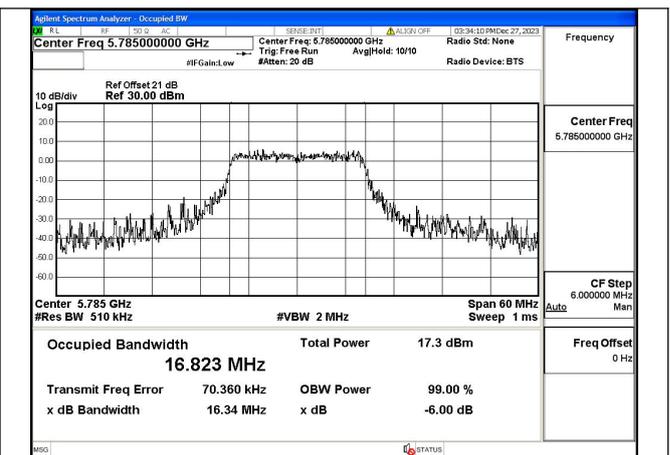
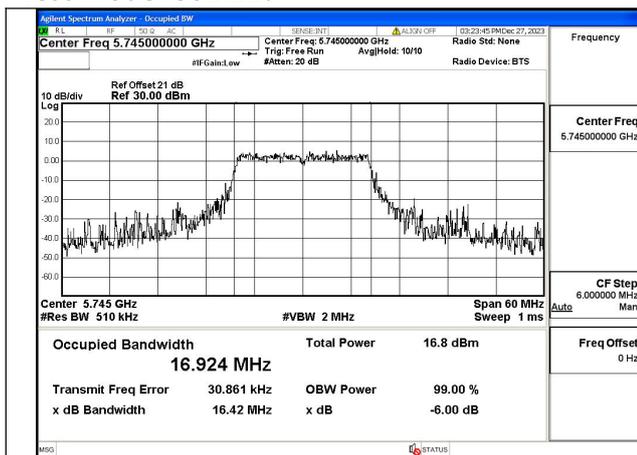
Offset 21dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.924	16.823	16.945
802.11n HT20	Chain0	18.108	17.943	17.928
802.11ac VHT20	Chain0	18.038	18.075	18.114

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5755MHz	---	5795MHz
802.11n HT40	Chain0	36.604	---	36.585
802.11ac VHT40	Chain0	36.671	---	36.717

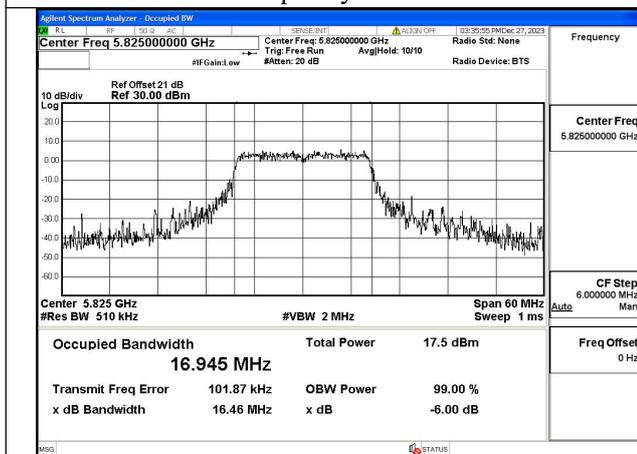
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5775MHz	---	---
802.11ac VHT80	Chain0	76.620	---	---

Test Mode: 802.11a



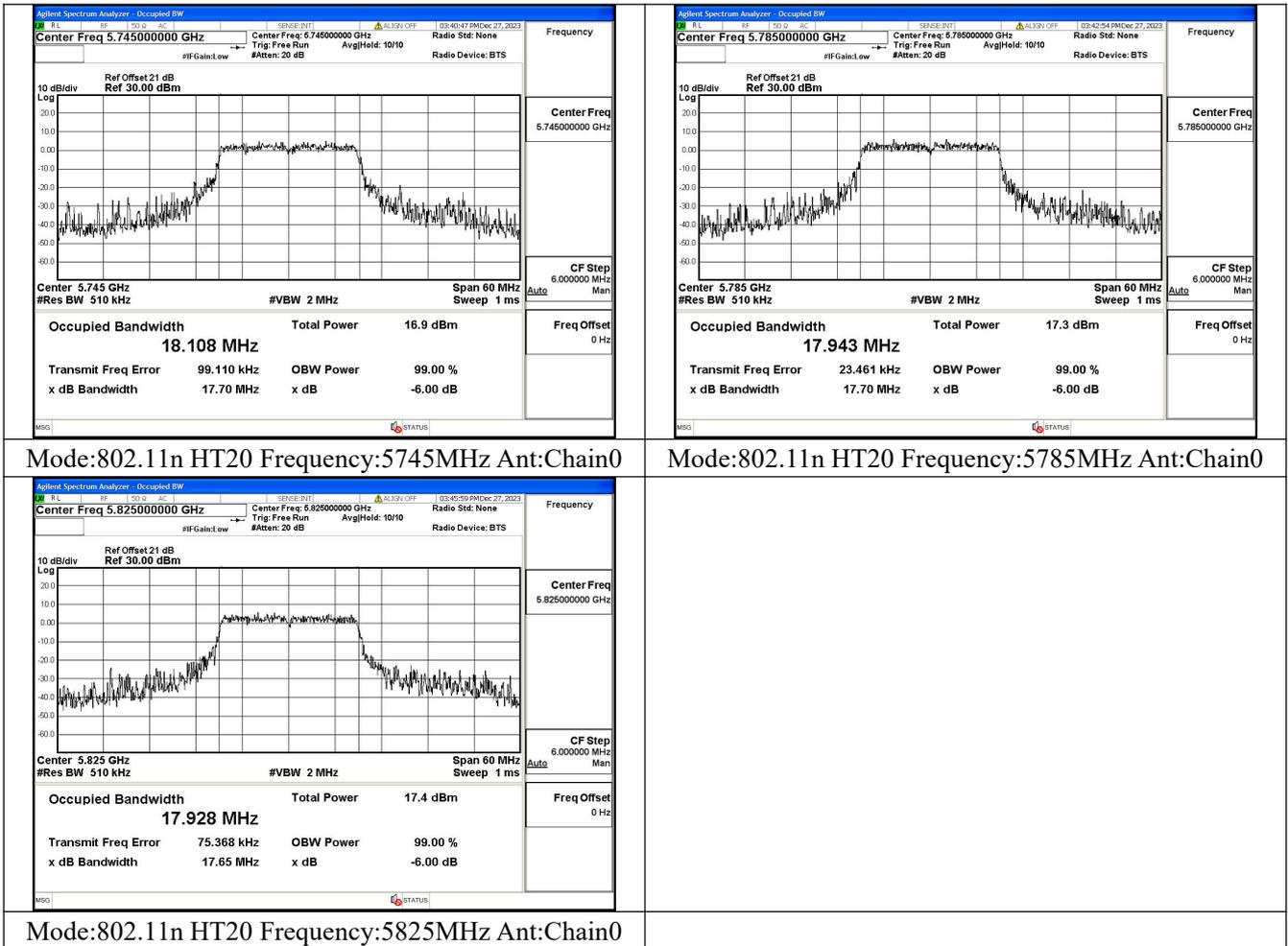
Mode:802.11a Frequency:5745MHz Ant:Chain0

Mode:802.11a Frequency:5785MHz Ant:Chain0



Mode:802.11a Frequency:5825MHz Ant:Chain0

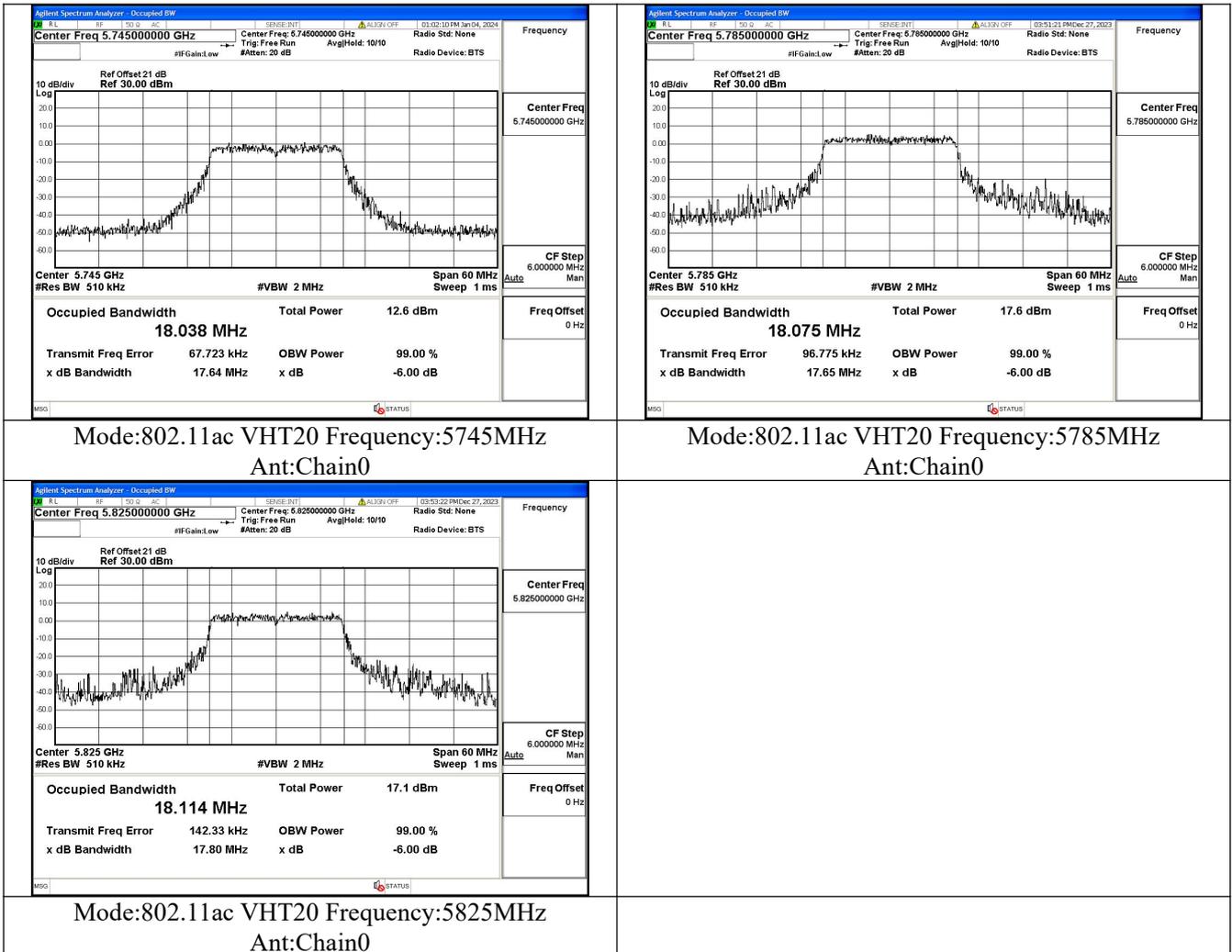
Test Mode: 802.11n HT20



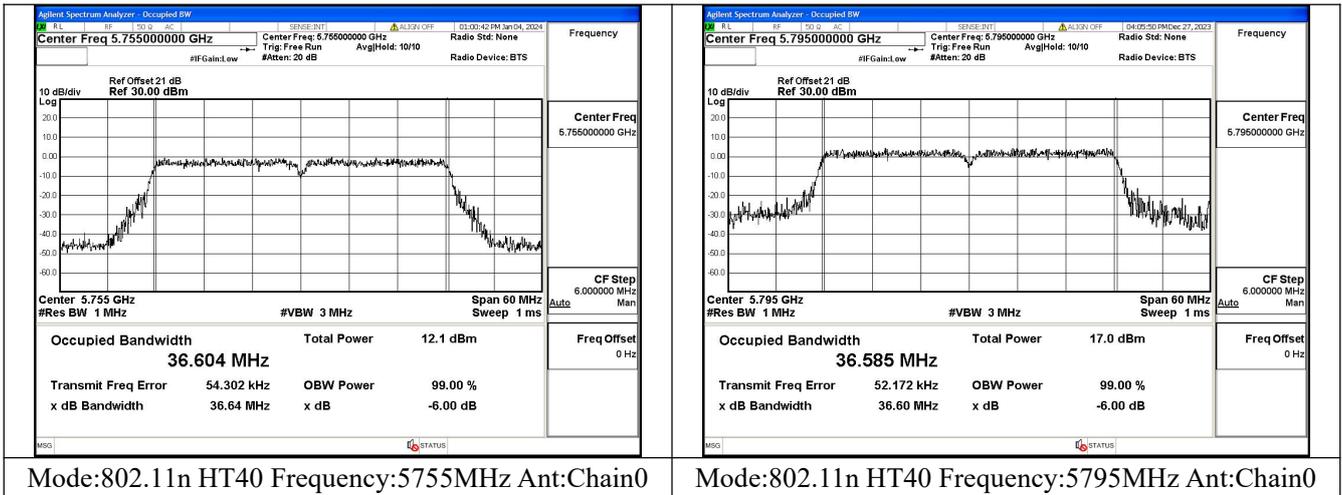
Mode:802.11n HT20 Frequency:5745MHz Ant:Chain0

Mode:802.11n HT20 Frequency:5785MHz Ant:Chain0

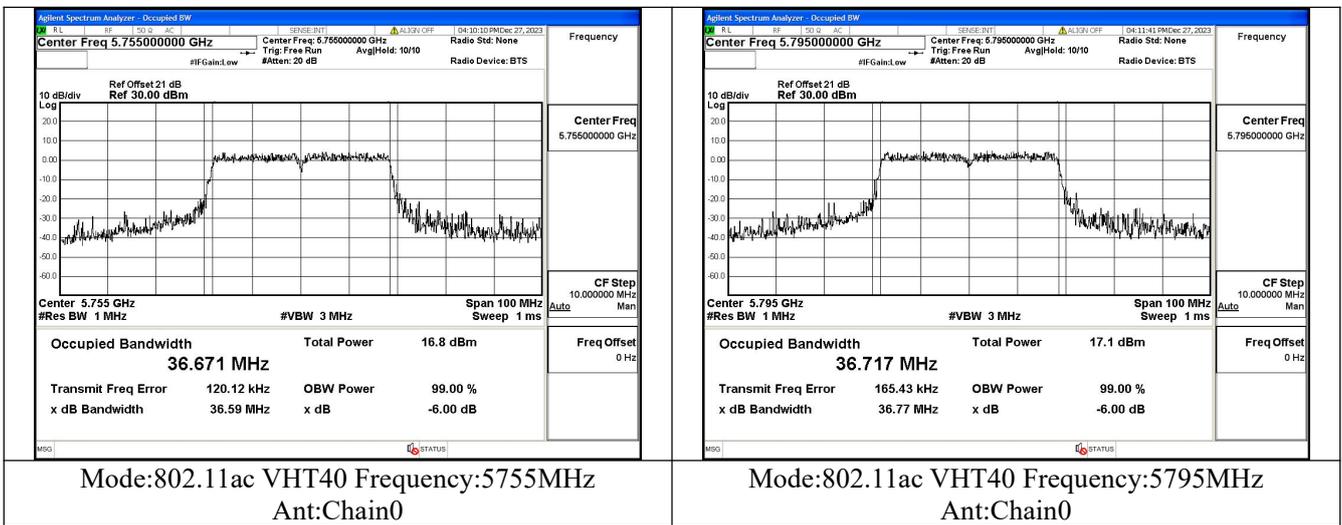
Test Mode: 802.11ac VHT20



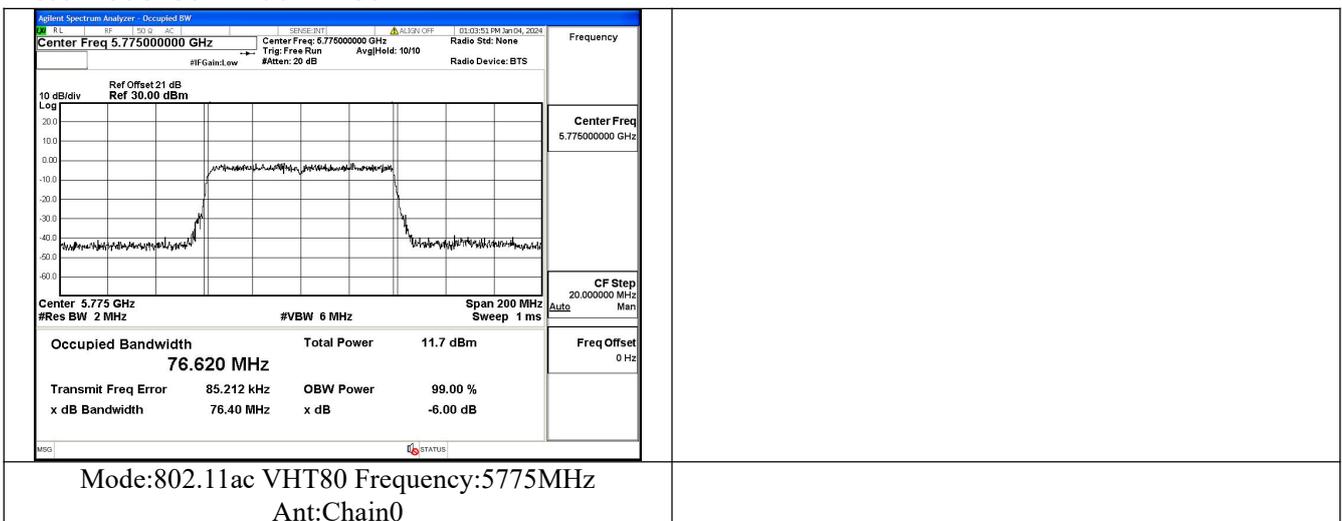
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Test Mode: 802.11ac VHT40



Test Mode: 802.11ac VHT80



6dB Bandwidth

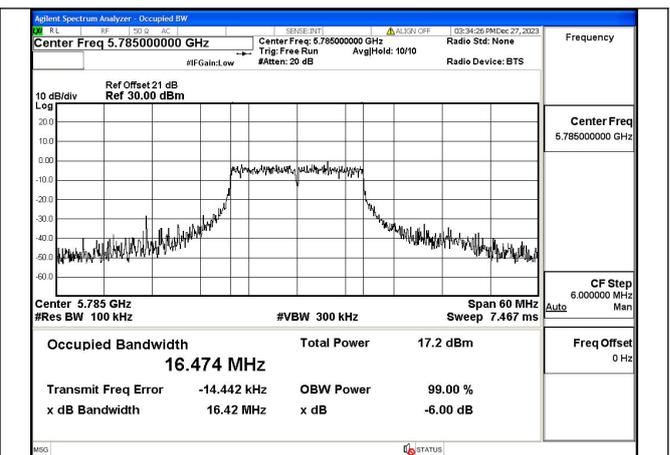
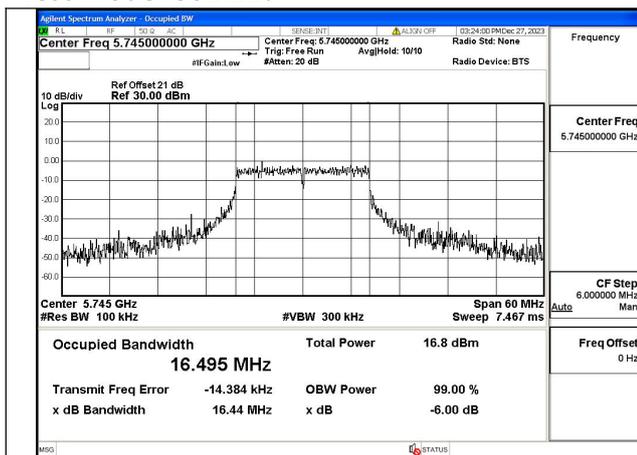
Offset 21dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	6dB Bandwidth (MHz)		
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.44	16.42	16.35
802.11n HT20	Chain0	17.62	17.76	17.36
802.11ac VHT20	Chain0	17.79	17.70	17.80

Test Mode	Antenna	6dB Bandwidth (MHz)		
		5755MHz	---	5795MHz
802.11n HT40	Chain0	36.44	---	36.42
802.11ac VHT40	Chain0	36.44	---	36.36

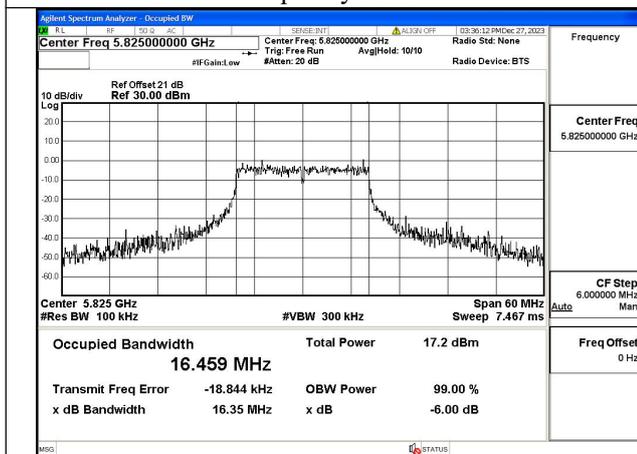
Test Mode	Antenna	6dB Bandwidth (MHz)		
		5775MHz	---	---
802.11ac VHT80	Chain0	76.45	---	---

Test Mode: 802.11a



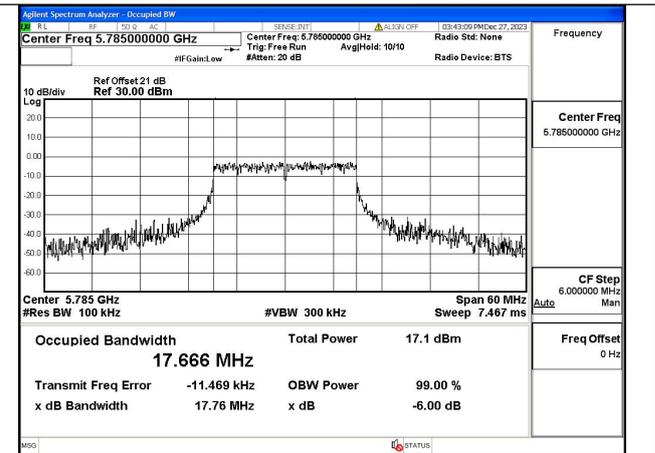
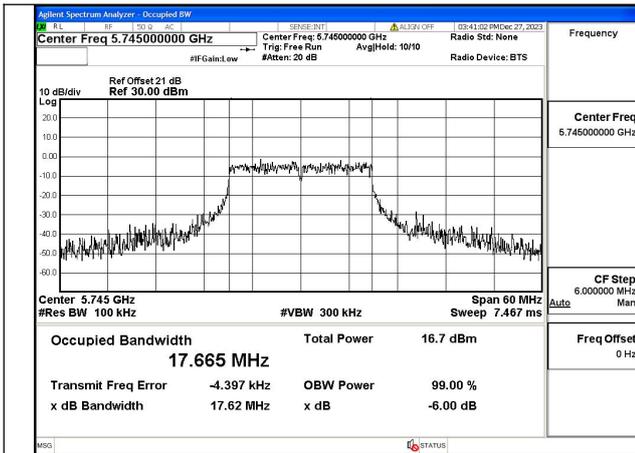
Mode:802.11a Frequency:5745MHz Ant:Chain0

Mode:802.11a Frequency:5785MHz Ant:Chain0



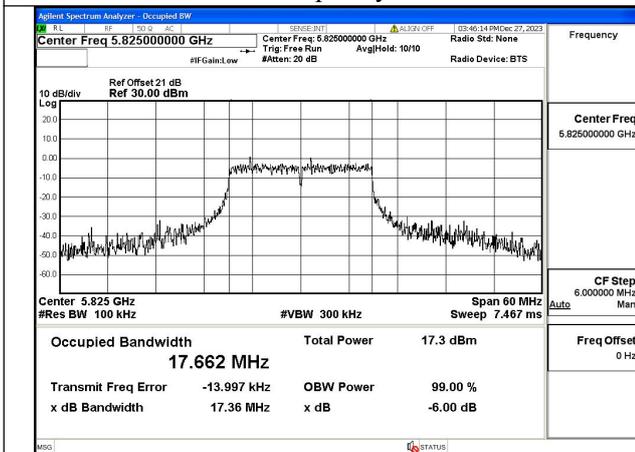
Mode:802.11a Frequency:5825MHz Ant:Chain0

Test Mode: 802.11n HT20



Mode:802.11n HT20 Frequency:5745MHz Ant:Chain0

Mode:802.11n HT20 Frequency:5785MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5825MHz Ant:Chain0