

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5745	86.40%	0.63	Fig.1
802.11a	5745	85.28%	0.69	Fig.2
802.11n HT20	5745	85.10%	0.70	Fig.3
802.11n HT20	5745	85.01%	0.71	Fig.4
802.11ac VHT20	5745	85.07%	0.70	Fig.5
802.11ac VHT20	5745	85.13%	0.70	Fig.6
802.11n HT40	5755	77.01%	1.13	Fig.7
802.11n HT40	5755	77.08%	1.13	Fig.8
802.11ac VHT40	5755	76.00%	1.19	Fig.9
802.11ac VHT40	5755	76.93%	1.14	Fig.10
802.11ac VHT80	5775	67.97%	1.68	Fig.11
802.11ac VHT80	5775	68.50%	1.64	Fig.12

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

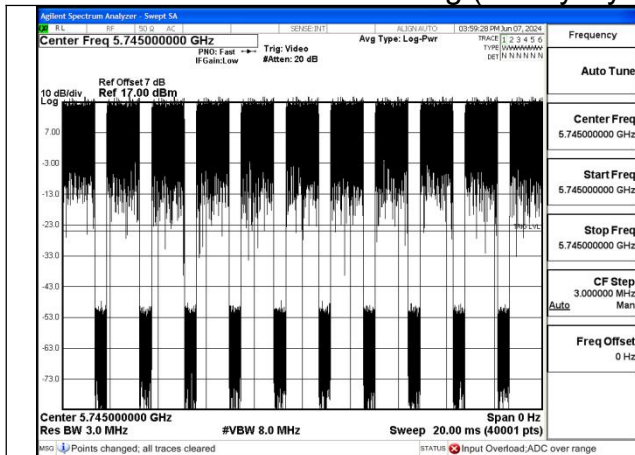


Fig.1

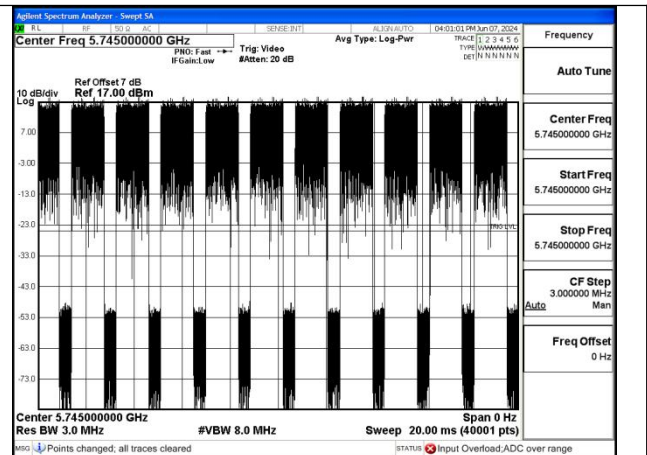


Fig.2

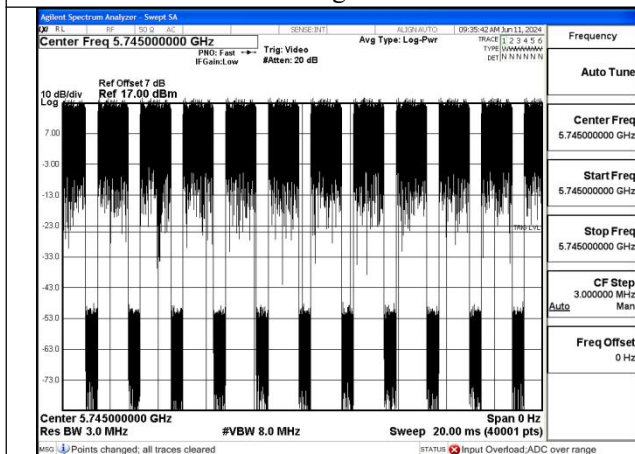


Fig.3

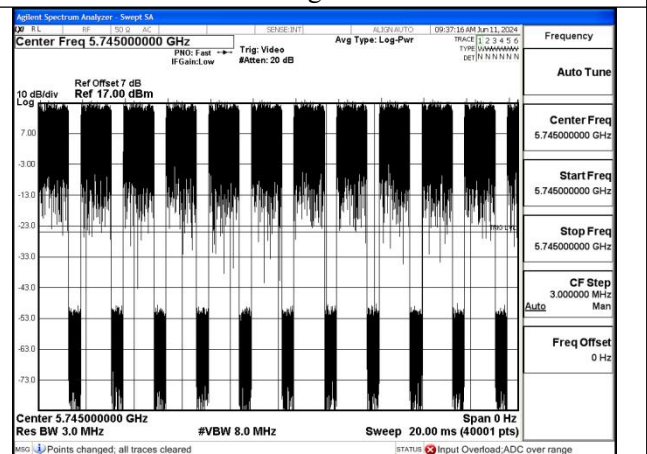


Fig.4

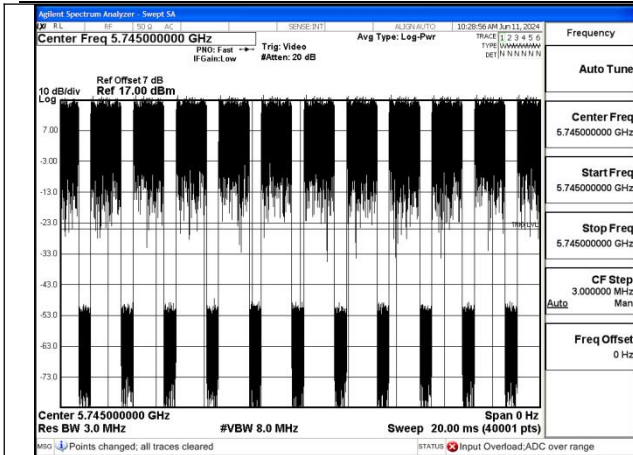


Fig.5

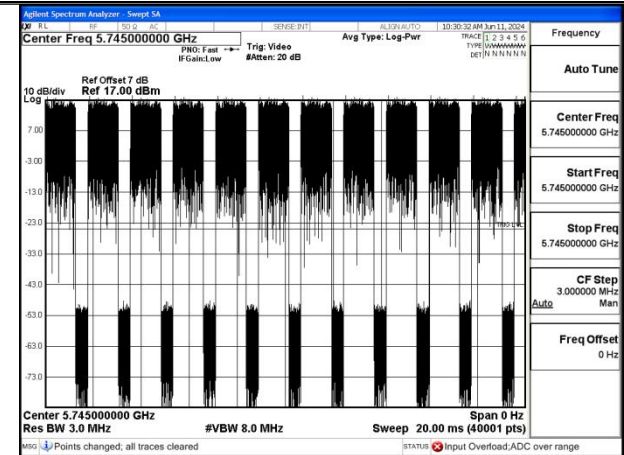


Fig.6

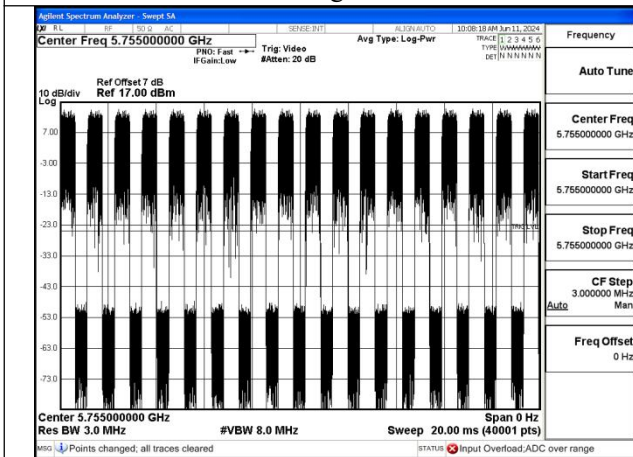


Fig.7

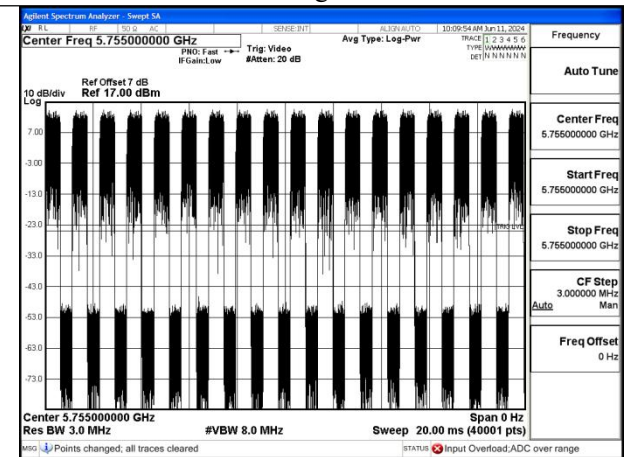


Fig.8

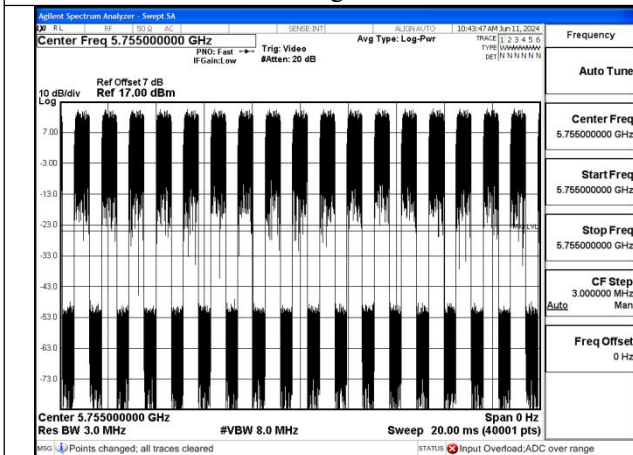


Fig.9

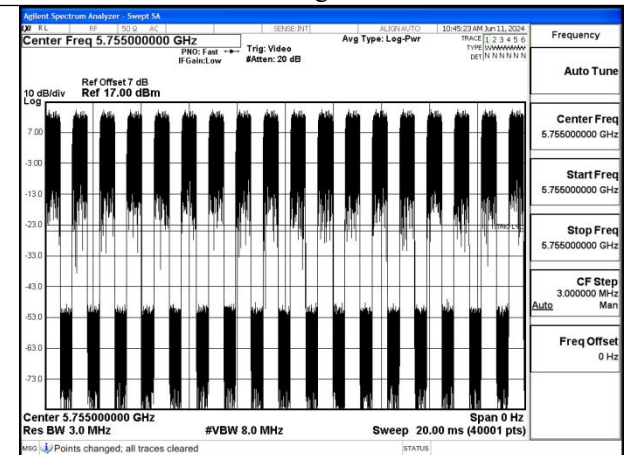


Fig.10

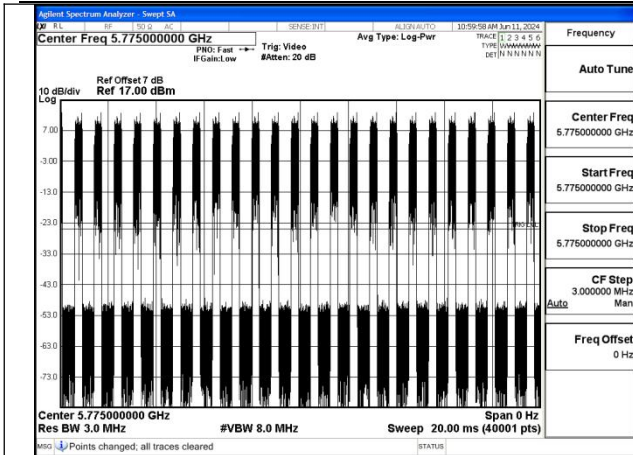


Fig.11

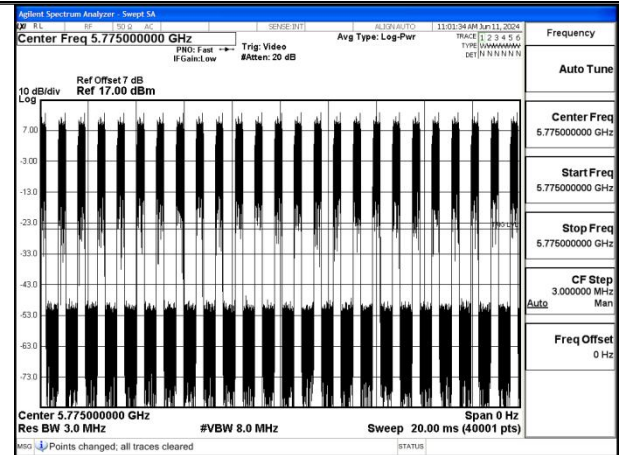


Fig.12

Output Power

Mode	Tones/ RUIndex	Frequency (MHz)	Antenna	Conductedaverage power output(dBm)	EIRP (dBm)
802.11a	NA	5745	Chain0	15.91	17.94
802.11a	NA	5745	Chain1	15.59	15.81
802.11a	NA	5785	Chain0	15.60	17.63
802.11a	NA	5785	Chain1	15.50	15.72
802.11a	NA	5825	Chain0	15.01	17.04
802.11a	NA	5825	Chain1	14.92	15.14
802.11n HT20	NA	5745	Chain0	15.68	17.71
802.11n HT20	NA	5745	Chain1	15.04	15.26
802.11n HT20	NA	5745	MIMO	18.38	19.60
802.11n HT20	NA	5785	Chain0	15.10	17.13
802.11n HT20	NA	5785	Chain1	14.96	15.18
802.11n HT20	NA	5785	MIMO	18.04	19.26
802.11n HT20	NA	5825	Chain0	14.75	16.78
802.11n HT20	NA	5825	Chain1	14.64	14.86
802.11n HT20	NA	5825	MIMO	17.71	18.93
802.11ac VHT20	NA	5745	Chain0	15.33	17.36
802.11ac VHT20	NA	5745	Chain1	15.00	15.22
802.11ac VHT20	NA	5745	MIMO	18.18	19.40
802.11ac VHT20	NA	5785	Chain0	15.11	17.14
802.11ac VHT20	NA	5785	Chain1	15.02	15.24
802.11ac VHT20	NA	5785	MIMO	18.08	19.30
802.11ac VHT20	NA	5825	Chain0	14.69	16.72
802.11ac VHT20	NA	5825	Chain1	14.63	14.85
802.11ac VHT20	NA	5825	MIMO	17.67	18.89
802.11n HT40	NA	5755	Chain0	14.17	16.20
802.11n HT40	NA	5755	Chain1	14.06	14.28
802.11n HT40	NA	5755	MIMO	17.13	18.35
802.11n HT40	NA	5795	Chain0	13.82	15.85
802.11n HT40	NA	5795	Chain1	13.77	13.99
802.11n HT40	NA	5795	MIMO	16.81	18.03
802.11ac VHT40	NA	5755	Chain0	14.13	16.16
802.11ac VHT40	NA	5755	Chain1	14.08	14.30
802.11ac VHT40	NA	5755	MIMO	17.12	18.34
802.11ac VHT40	NA	5795	Chain0	13.70	15.73
802.11ac VHT40	NA	5795	Chain1	13.69	13.91
802.11ac VHT40	NA	5795	MIMO	16.71	17.93
802.11ac VHT80	NA	5775	Chain0	12.79	14.82
802.11ac VHT80	NA	5775	Chain1	12.71	12.93
802.11ac VHT80	NA	5775	MIMO	15.76	16.98

Emission Bandwidth

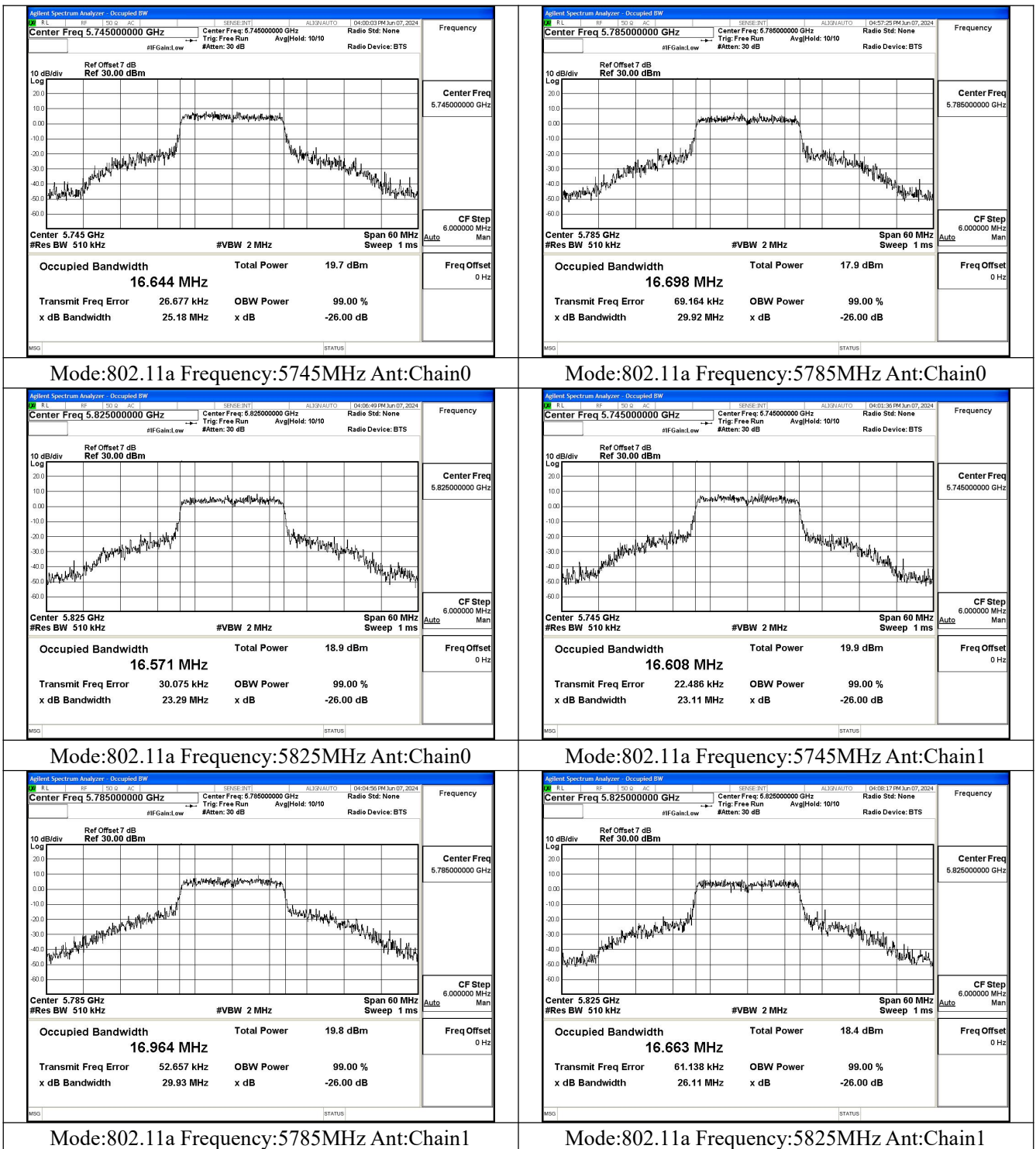
Offset 7dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	25.18	29.92	23.29
802.11a	Chain1	23.11	29.93	26.11
802.11n HT20	Chain0	21.16	21.80	22.17
802.11n HT20	Chain1	22.48	21.77	19.58
802.11ac VHT20	Chain0	25.43	25.55	26.26
802.11ac VHT20	Chain1	21.45	21.09	22.77

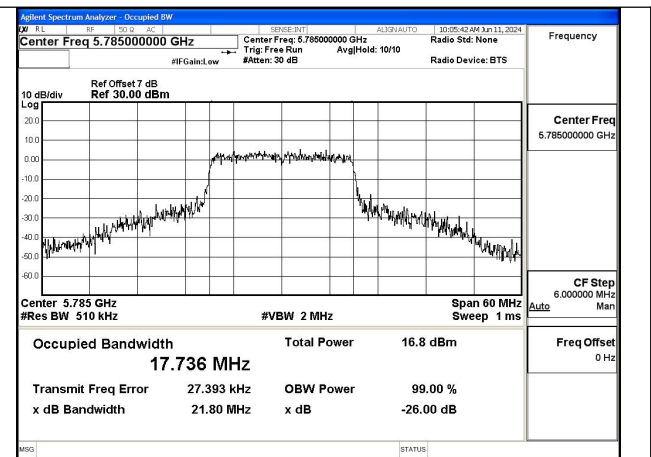
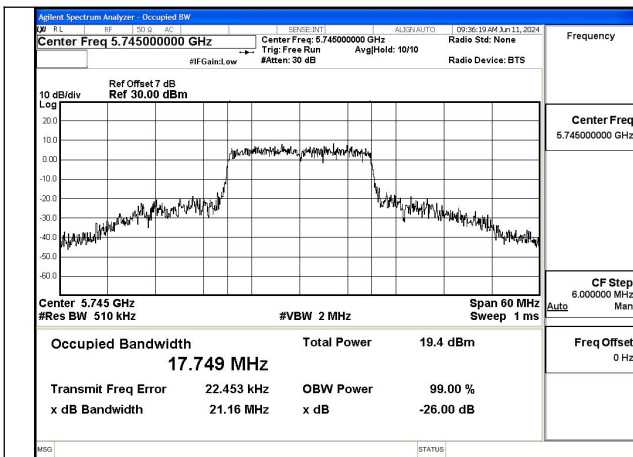
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5755MHz	---	5795MHz
802.11n HT40	Chain0	48.36	---	48.07
802.11n HT40	Chain1	46.25	---	46.83
802.11ac VHT40	Chain0	40.48	---	42.69
802.11ac VHT40	Chain1	42.70	---	47.41

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5775MHz	---	---
802.11ac VHT80	Chain0	82.06	---	---
802.11ac VHT80	Chain1	86.54	---	---

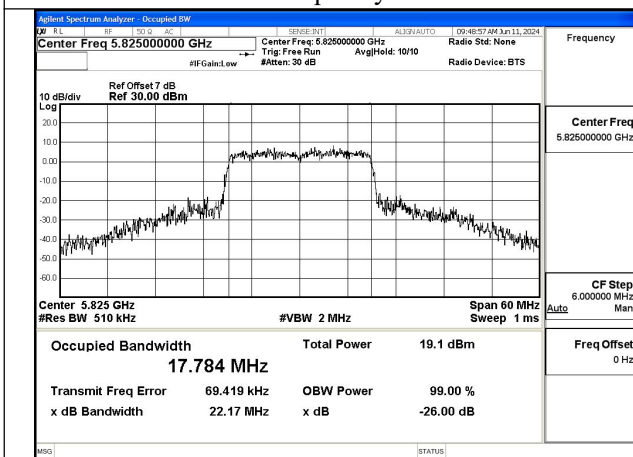
Test Mode: 802.11a



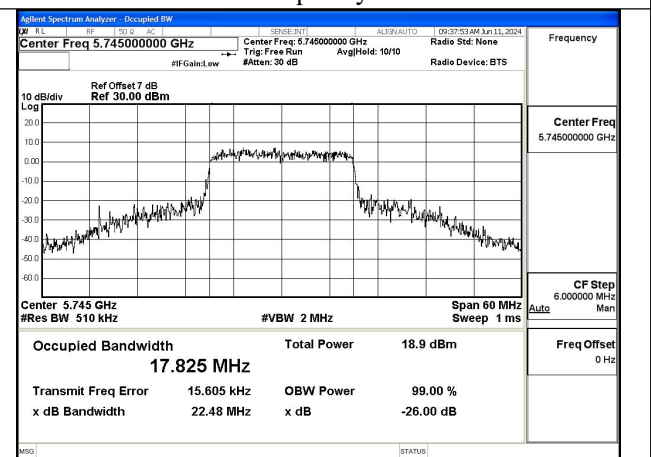
Test Mode: 802.11n HT20



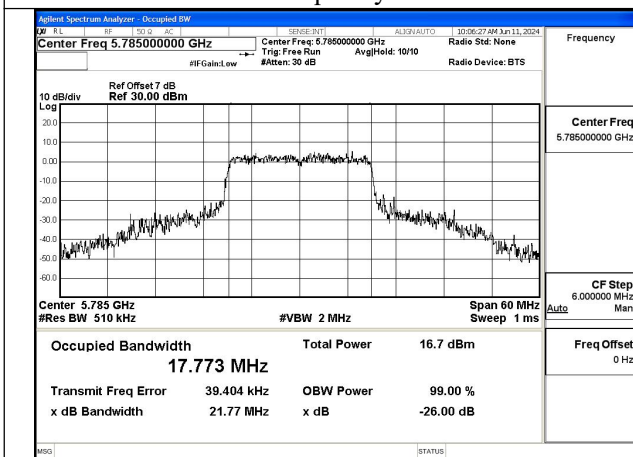
Mode:802.11n HT20 Frequency:5745MHz Ant:Chain0



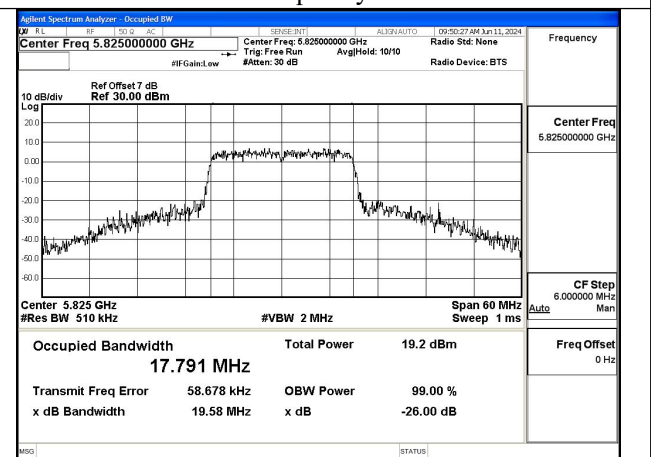
Mode:802.11n HT20 Frequency:5785MHz Ant:Chain0



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



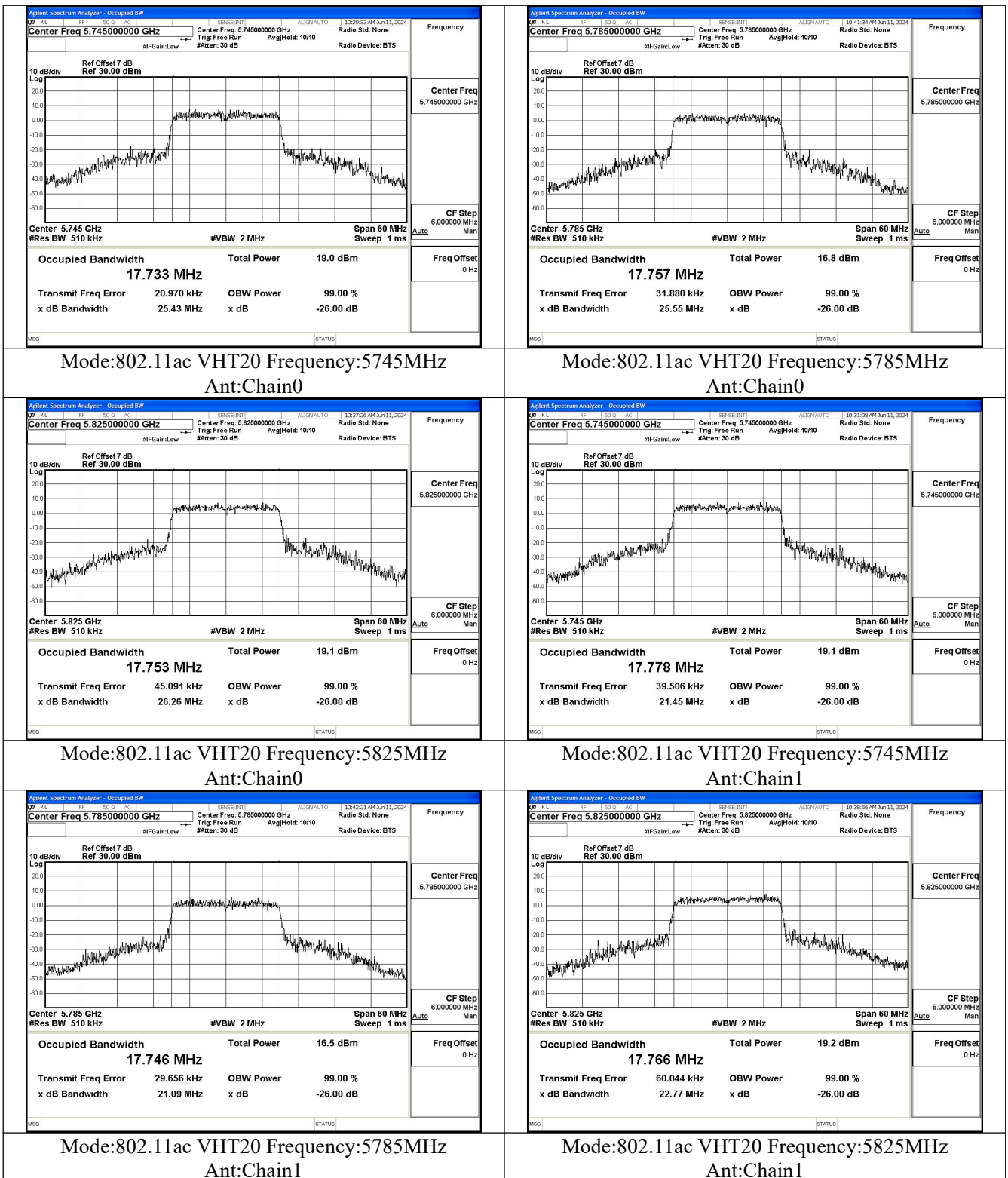
Mode:802.11n HT20 Frequency:5745MHz Ant:Chain1



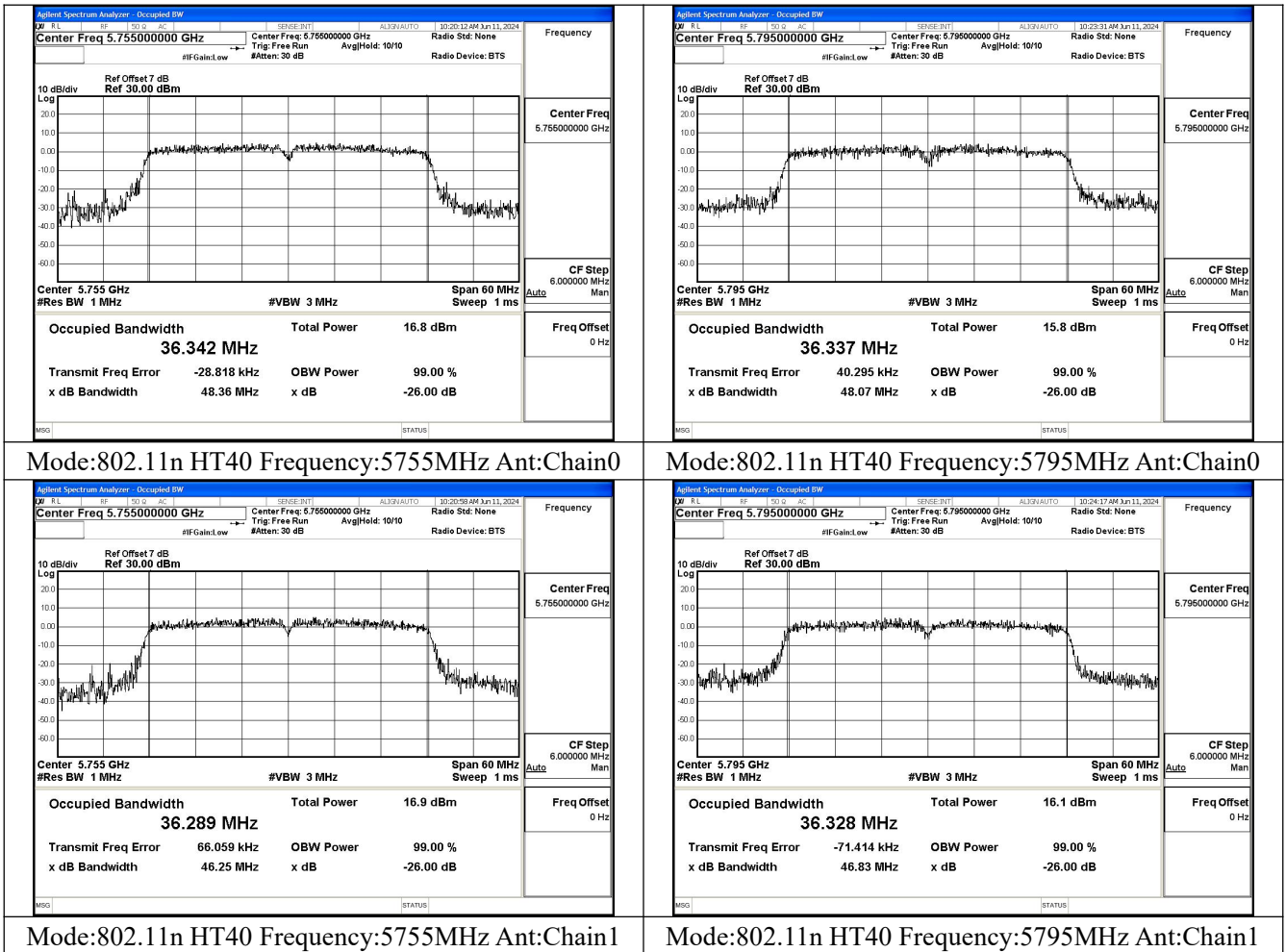
Mode:802.11n HT20 Frequency:5785MHz Ant:Chain1

Mode:802.11n HT20 Frequency:5825MHz Ant:Chain1

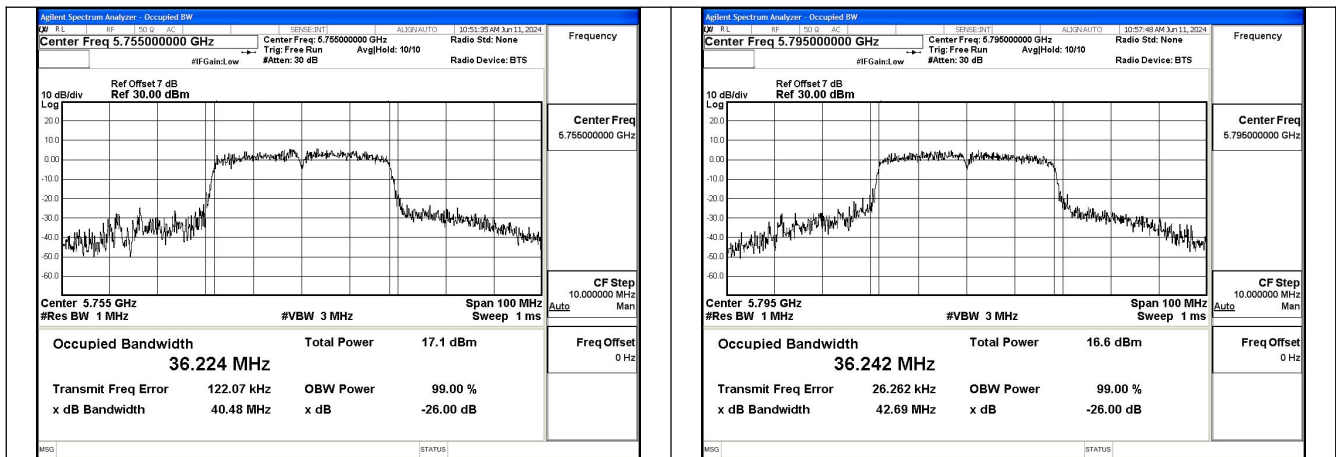
Test Mode: 802.11ac VHT20



Test Mode: 802.11n HT40

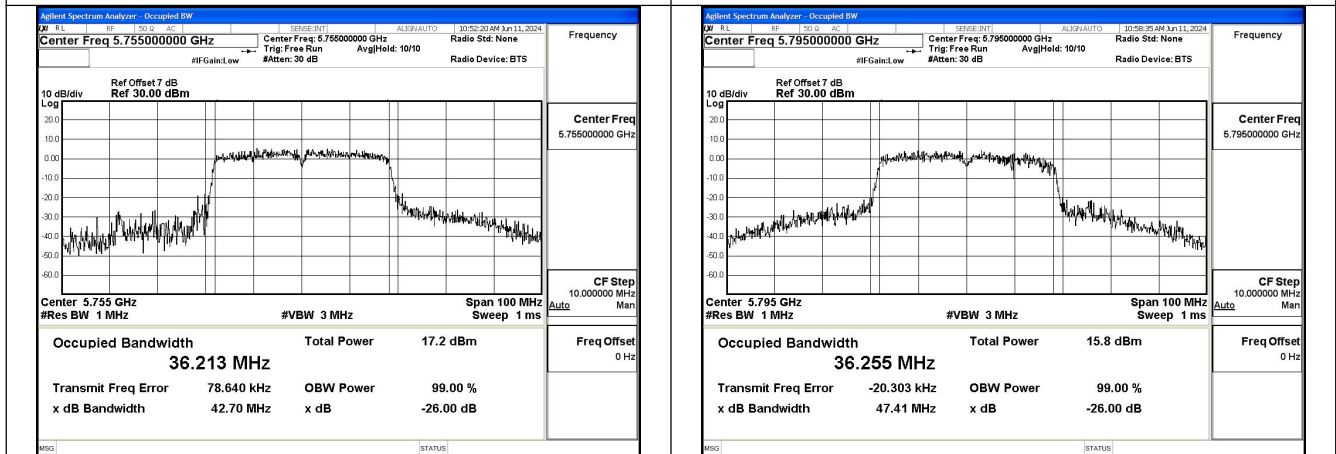


Test Mode: 802.11ac VHT40



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

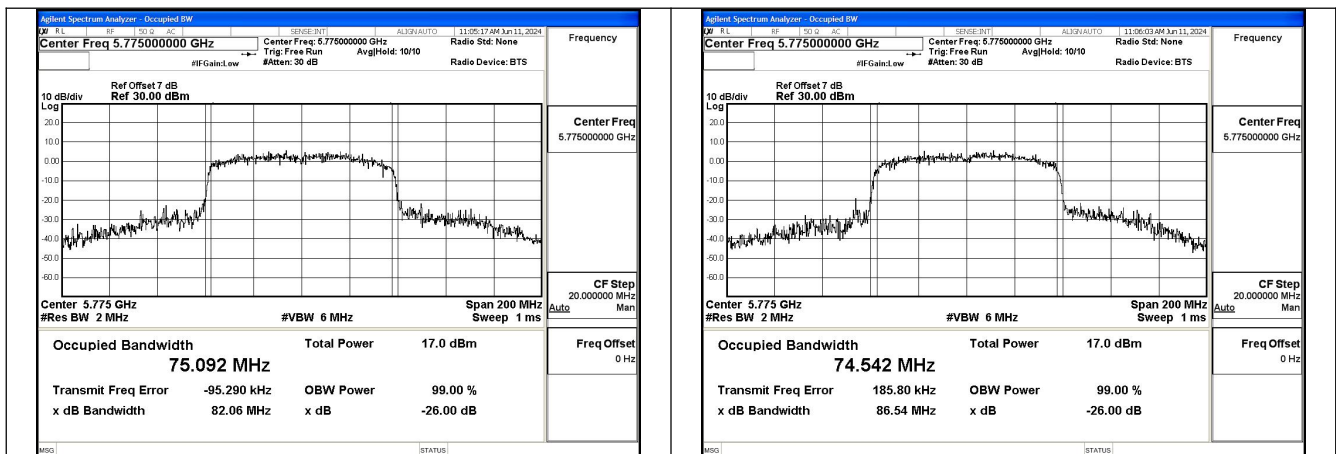
Mode:802.11ac VHT40 Frequency:5795MHz
Ant:Chain0



Mode:802.11ac VHT40 Frequency:5755MHz
Ant:Chain1

Mode:802.11ac VHT40 Frequency:5795MHz
Ant:Chain1

Test Mode: 802.11ac VHT80



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

Mode:802.11ac VHT80 Frequency:5775MHz
Ant:Chain1

Occupied Bandwidth

Offset 7dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.526	16.685	16.597
802.11a	Chain1	16.618	16.952	16.620
802.11n HT20	Chain0	17.805	17.742	17.783
802.11n HT20	Chain1	17.794	17.779	17.751
802.11ac VHT20	Chain0	17.751	17.775	17.758
802.11ac VHT20	Chain1	17.794	17.757	17.758

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5755MHz	---	5795MHz
802.11n HT40	Chain0	36.274	---	36.279
802.11n HT40	Chain1	36.265	---	36.259
802.11ac VHT40	Chain0	36.495	---	36.251
802.11ac VHT40	Chain1	36.287	---	36.544

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5775MHz	---	---
802.11ac VHT80	Chain0	75.267	---	---
802.11ac VHT80	Chain1	75.311	---	---

Test Mode: 802.11a

