

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Chain1	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	Chain0	5745	99.97%	0	Fig.1
802.11a	Chain1	5745	99.98%	0	Fig.2
802.11n HT20	Chain0	5745	99.98%	0	Fig.3
802.11n HT20	Chain1	5745	99.98%	0	Fig.4
802.11ac VHT20	Chain0	5745	99.98%	0	Fig.5
802.11ac VHT20	Chain1	5745	99.98%	0	Fig.6
802.11n HT40	Chain0	5755	99.96%	0	Fig.7
802.11n HT40	Chain1	5755	99.94%	0	Fig.8
802.11ac VHT40	Chain0	5755	99.94%	0	Fig.9
802.11ac VHT40	Chain1	5755	99.95%	0	Fig.10
802.11ac VHT80	Chain0	5775	99.93%	0	Fig.11
802.11ac VHT80	Chain1	5775	99.92%	0	Fig.12

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

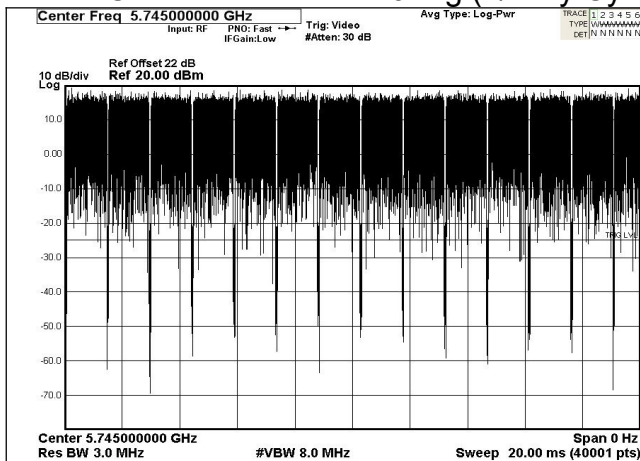


Fig.1

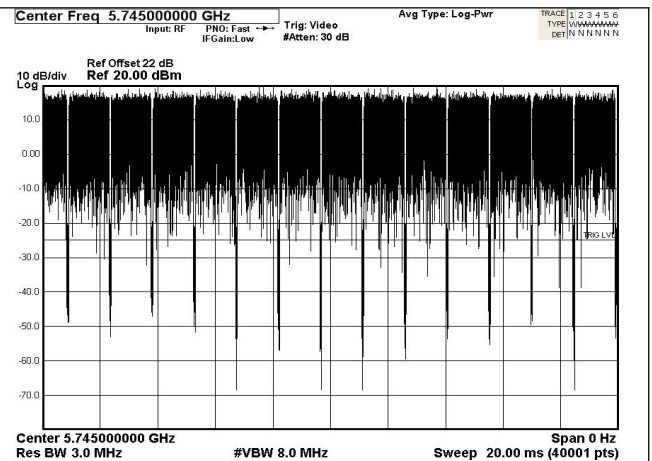


Fig.2

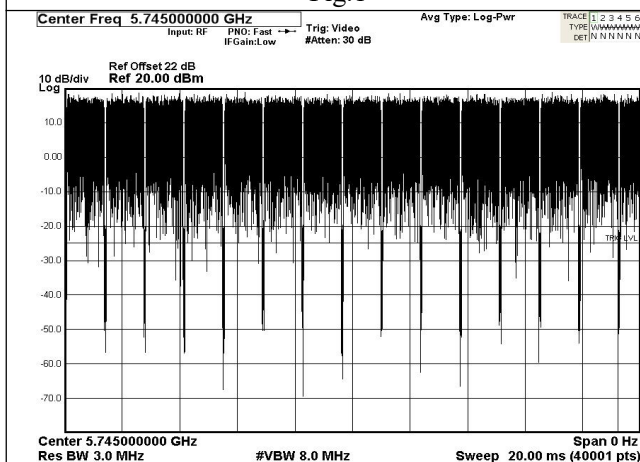


Fig.3

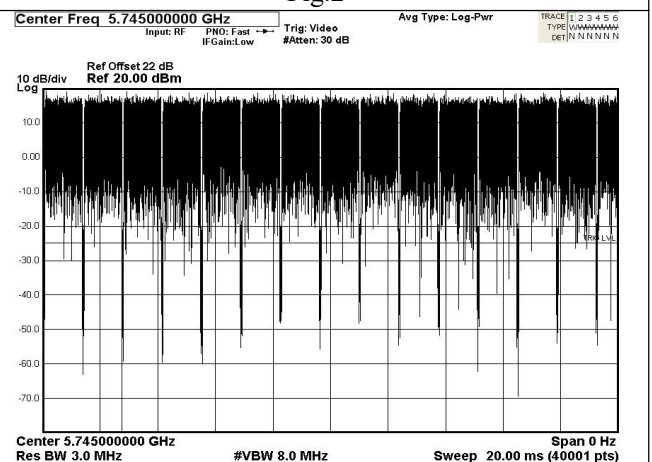


Fig.4

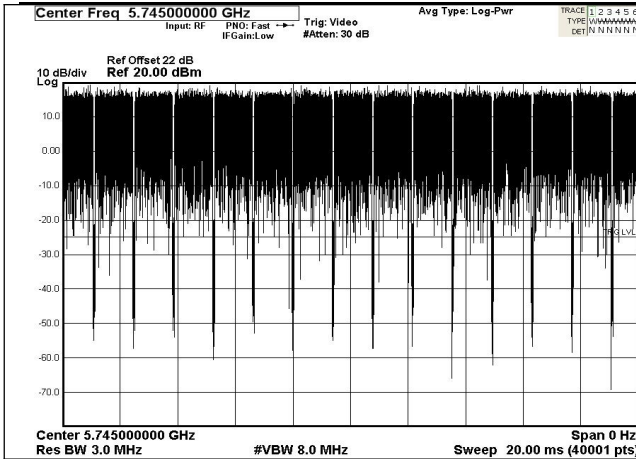


Fig.5

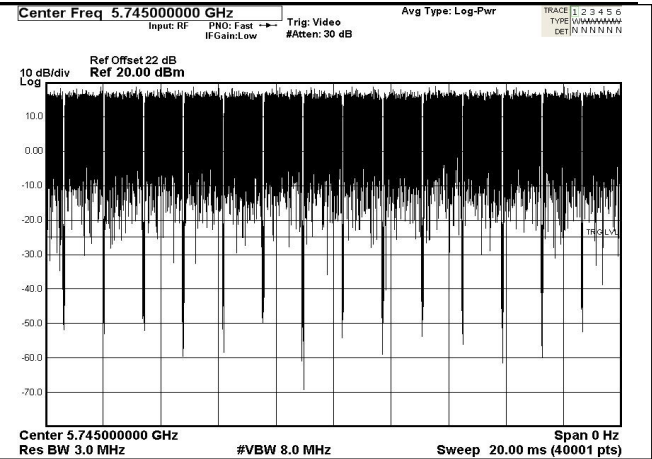


Fig.6

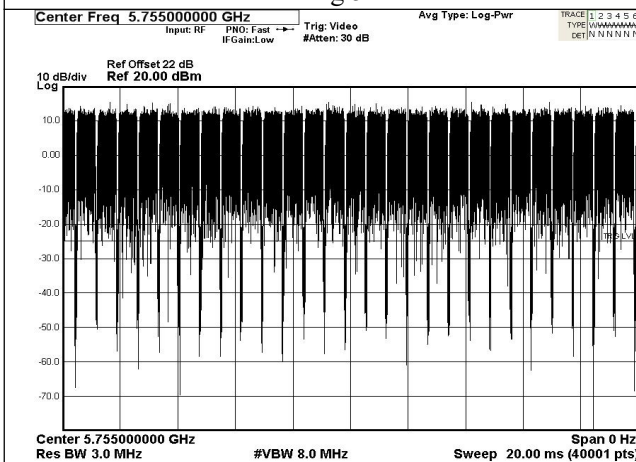


Fig.7

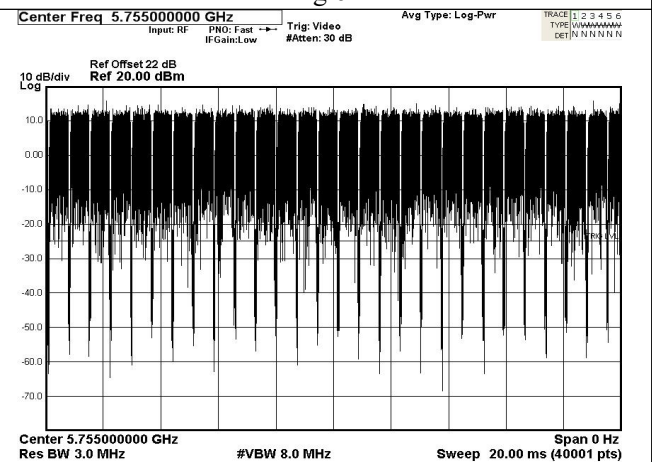


Fig.8

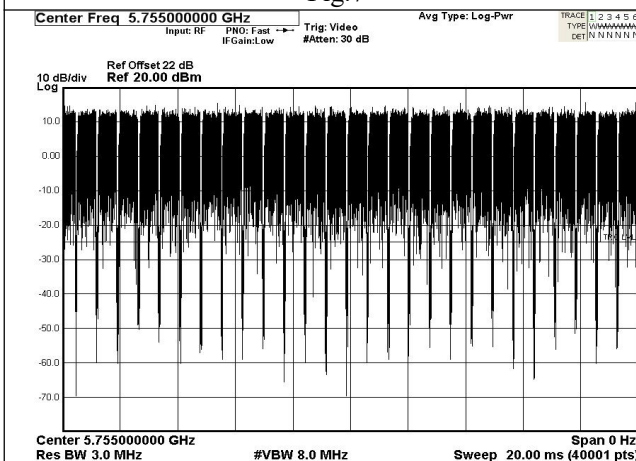


Fig.9

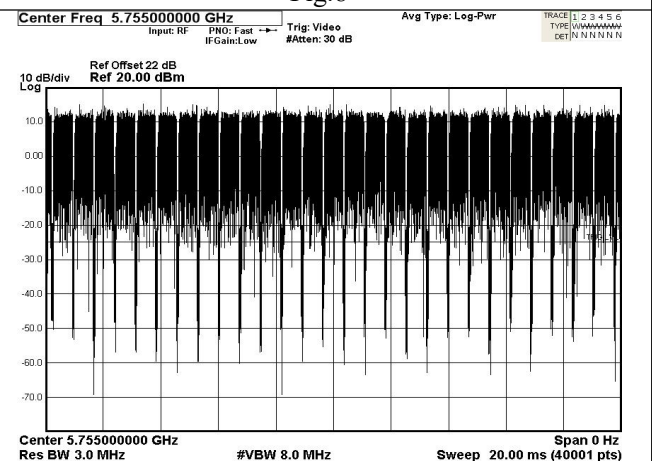
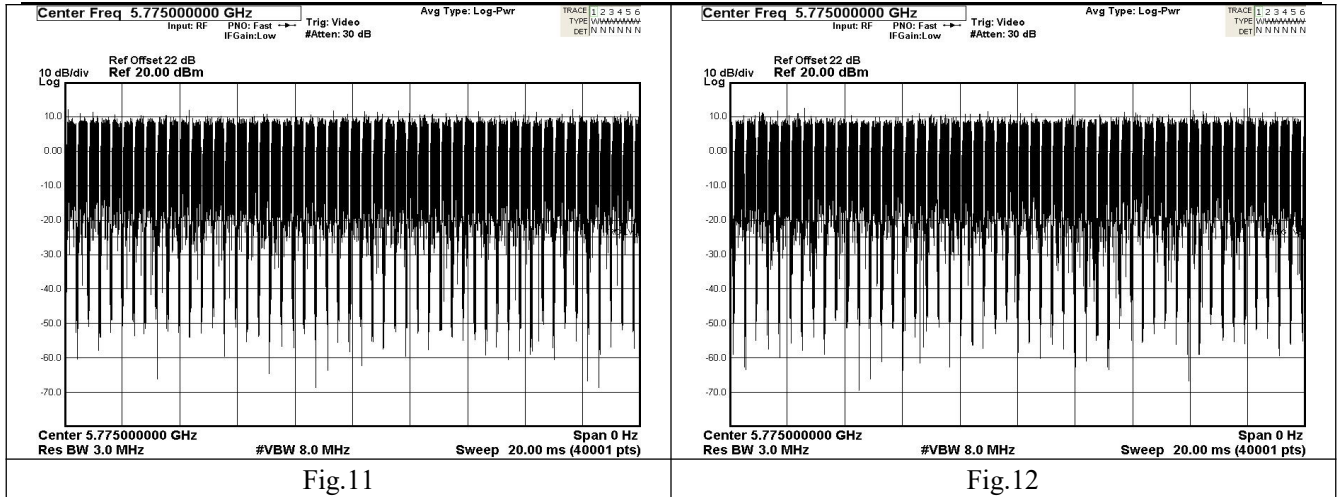


Fig.10



Output Power

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5745	Chain0	15.91	16.41
802.11a	NA	5745	Chain1	15.97	16.42
802.11a	NA	5785	Chain0	16.55	17.05
802.11a	NA	5785	Chain1	15.62	16.07
802.11a	NA	5825	Chain0	15.68	16.18
802.11a	NA	5825	Chain1	16.25	16.70
802.11n HT20	NA	5745	Chain0	15.83	16.33
802.11n HT20	NA	5745	Chain1	15.92	16.37
802.11n HT20	NA	5745	MIMO	18.89	19.37
802.11n HT20	NA	5785	Chain0	16.02	16.52
802.11n HT20	NA	5785	Chain1	16.06	16.51
802.11n HT20	NA	5785	MIMO	19.05	19.53
802.11n HT20	NA	5825	Chain0	16.07	16.57
802.11n HT20	NA	5825	Chain1	15.98	16.43
802.11n HT20	NA	5825	MIMO	19.04	19.52
802.11ac VHT20	NA	5745	Chain0	15.89	16.39
802.11ac VHT20	NA	5745	Chain1	15.81	16.26
802.11ac VHT20	NA	5745	MIMO	18.86	19.34
802.11ac VHT20	NA	5785	Chain0	16.05	16.55
802.11ac VHT20	NA	5785	Chain1	15.95	16.40
802.11ac VHT20	NA	5785	MIMO	19.01	19.49
802.11ac VHT20	NA	5825	Chain0	15.98	16.48
802.11ac VHT20	NA	5825	Chain1	16.06	16.51
802.11ac VHT20	NA	5825	MIMO	19.03	19.51
802.11n HT40	NA	5755	Chain0	15.11	15.61
802.11n HT40	NA	5755	Chain1	14.87	15.32
802.11n HT40	NA	5755	MIMO	18.00	18.48
802.11n HT40	NA	5795	Chain0	15.22	15.72
802.11n HT40	NA	5795	Chain1	15.05	15.50
802.11n HT40	NA	5795	MIMO	18.15	18.63
802.11ac VHT40	NA	5755	Chain0	15.05	15.55
802.11ac VHT40	NA	5755	Chain1	14.94	15.39
802.11ac VHT40	NA	5755	MIMO	18.01	18.49
802.11ac VHT40	NA	5795	Chain0	15.12	15.62
802.11ac VHT40	NA	5795	Chain1	15.08	15.53
802.11ac VHT40	NA	5795	MIMO	18.11	18.59
802.11ac VHT80	NA	5775	Chain0	13.68	14.18
802.11ac VHT80	NA	5775	Chain1	13.78	14.23
802.11ac VHT80	NA	5775	MIMO	16.74	17.22

Emission Bandwidth

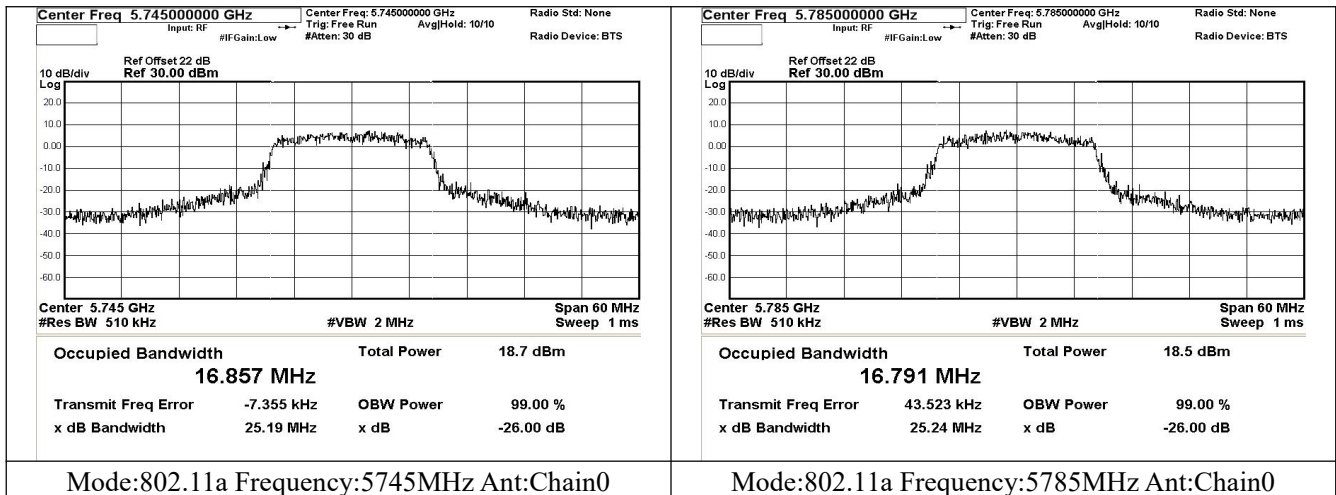
Offset 22dB = Attenuator + Temporary antenna connector loss + Cable loss

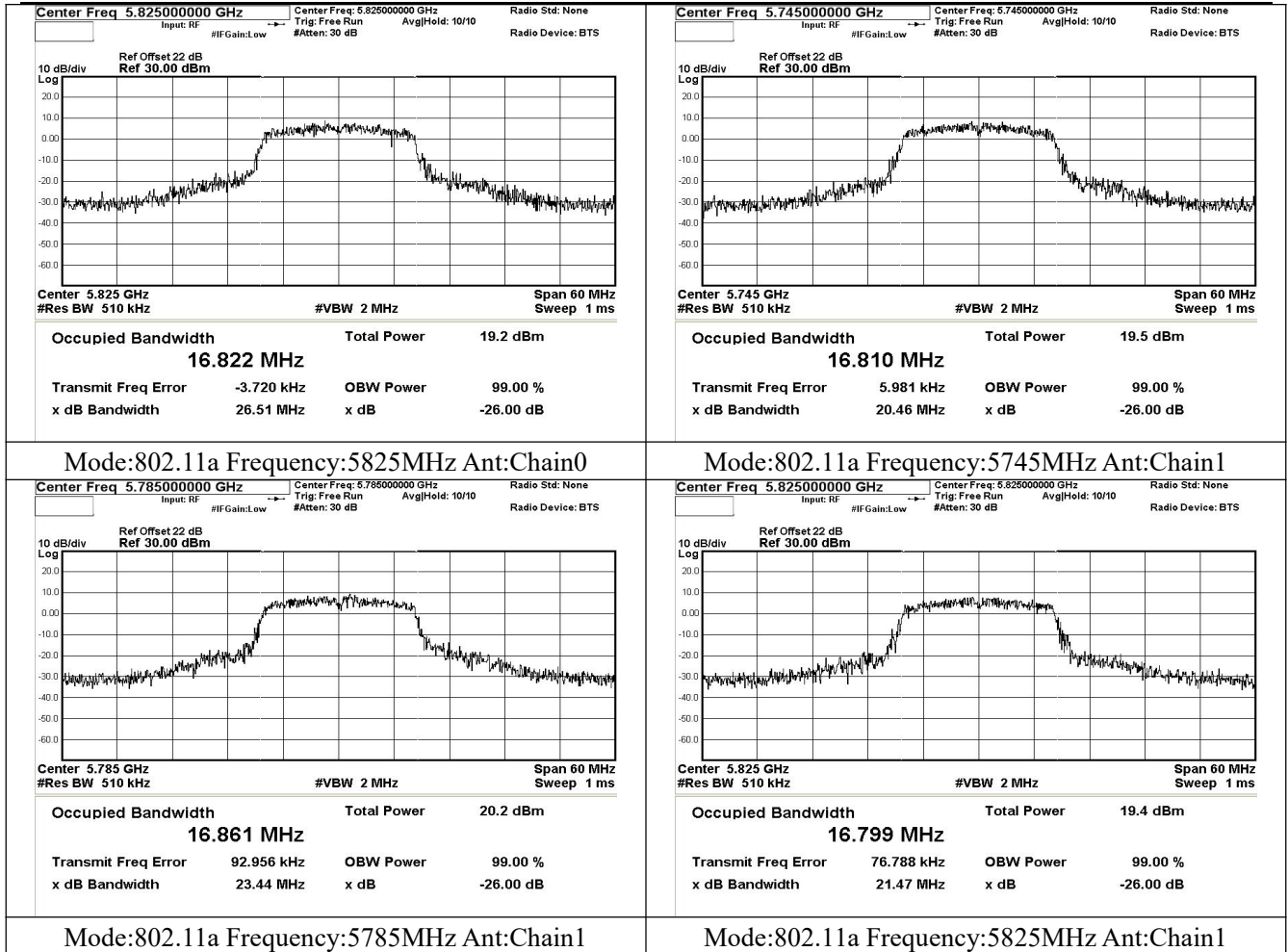
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	25.19	25.24	26.51
802.11a	Chain1	20.46	23.44	21.47
802.11n HT20	Chain0	24.39	26.25	24.17
802.11n HT20	Chain1	20.44	20.68	20.70
802.11ac VHT20	Chain0	26.04	21.75	26.91
802.11ac VHT20	Chain1	20.26	20.40	20.49

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5755MHz	---	5795MHz
802.11n HT40	Chain0	43.09	---	44.20
802.11n HT40	Chain1	41.11	---	39.59
802.11ac VHT40	Chain0	43.00	---	49.48
802.11ac VHT40	Chain1	40.16	---	41.61

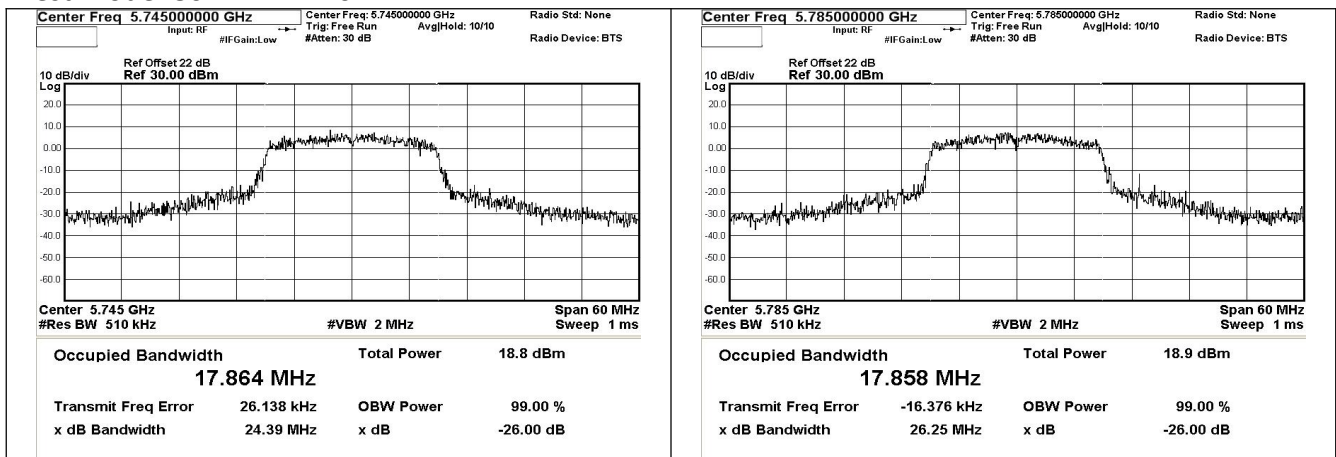
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5775MHz	---	---
802.11ac VHT80	Chain0	81.49	---	---
802.11ac VHT80	Chain1	82.06	---	---

Test Mode: 802.11a

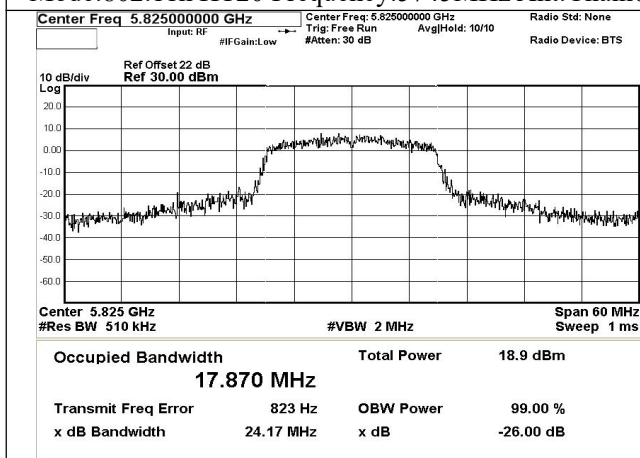




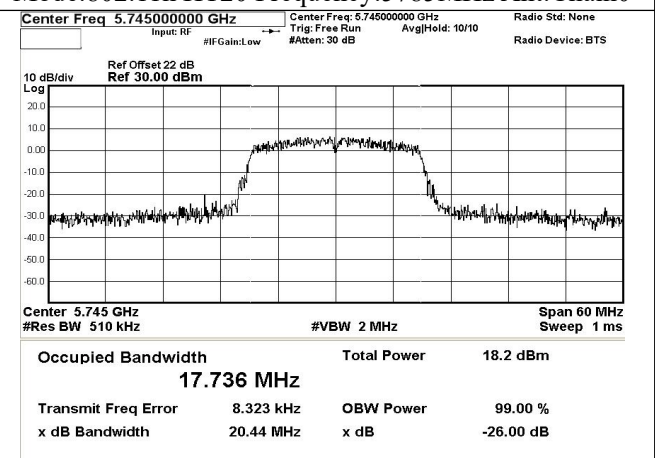
Test Mode: 802.11n HT20



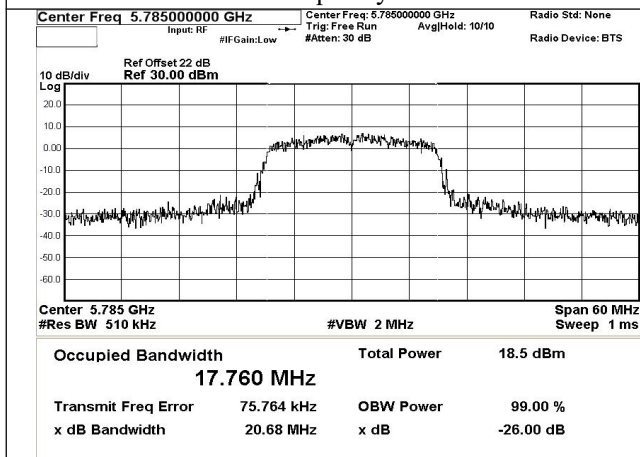
Mode:802.11n HT20 Frequency:5745MHz Ant:Chain0



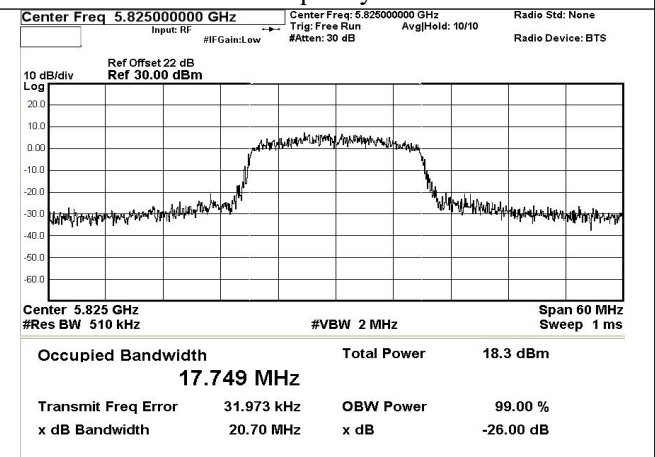
Mode:802.11n HT20 Frequency:5785MHz Ant:Chain0



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



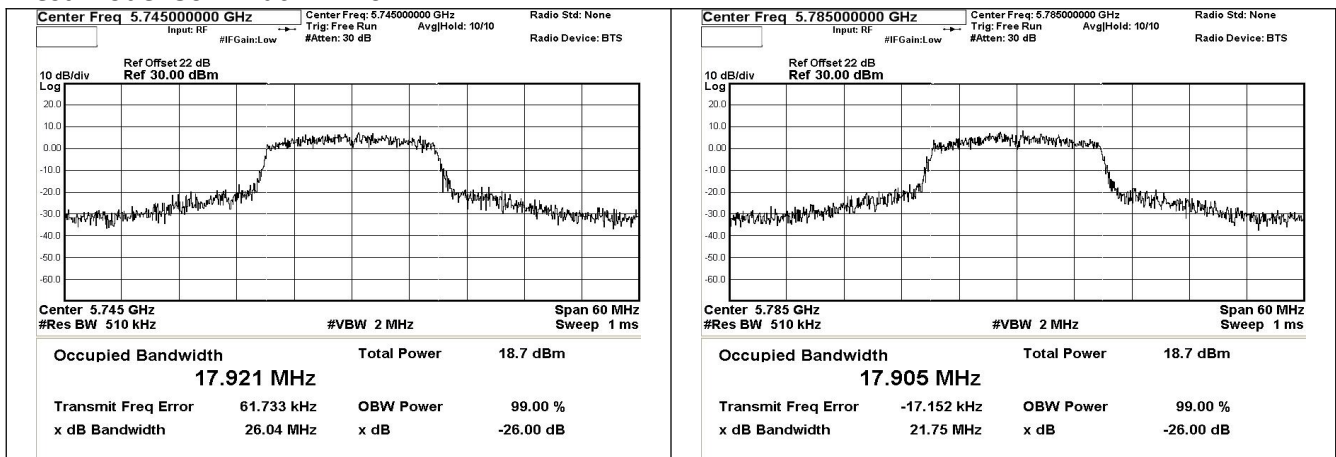
Mode:802.11n HT20 Frequency:5745MHz Ant:Chain1



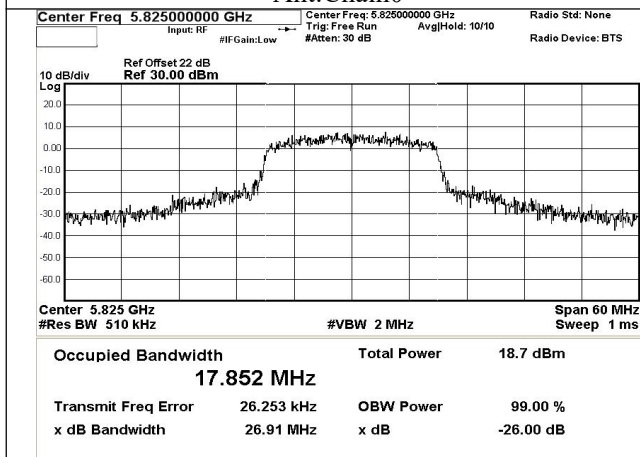
Mode:802.11n HT20 Frequency:5785MHz Ant:Chain1

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

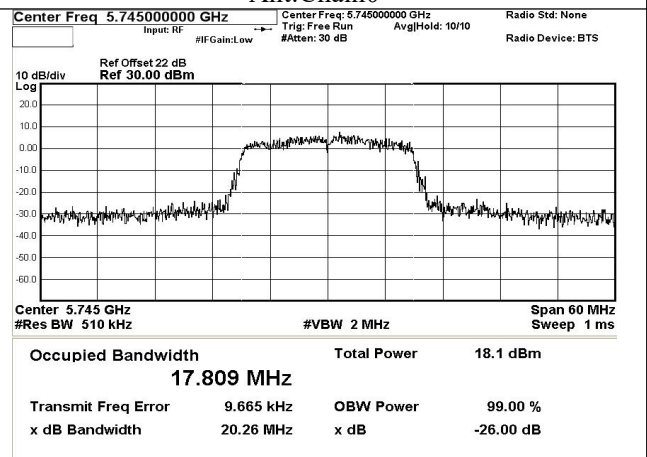
Test Mode: 802.11ac VHT20



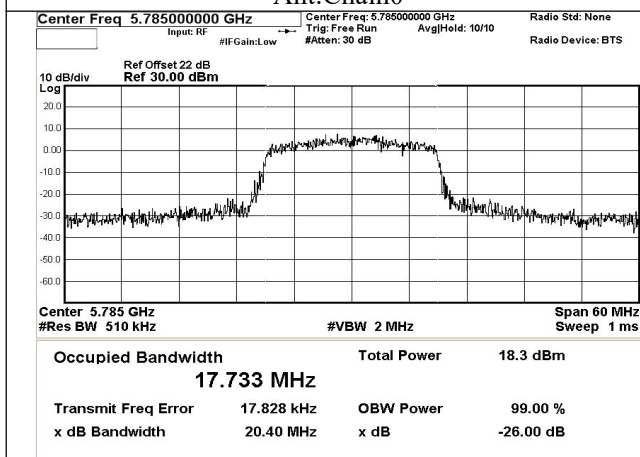
Mode:802.11ac VHT20 Frequency:5745MHz Ant:Chain0



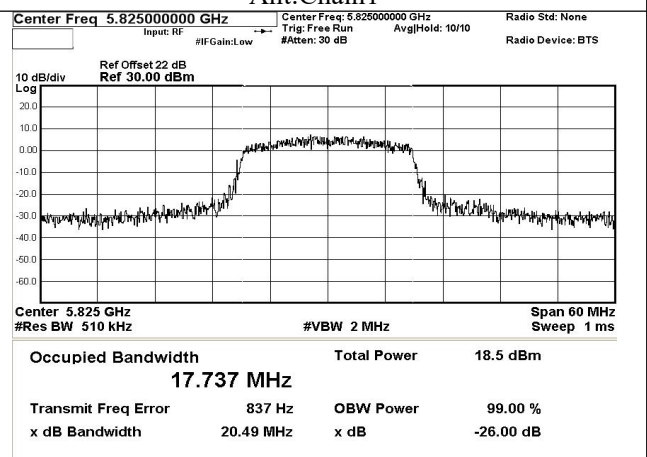
Mode:802.11ac VHT20 Frequency:5785MHz Ant:Chain0



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



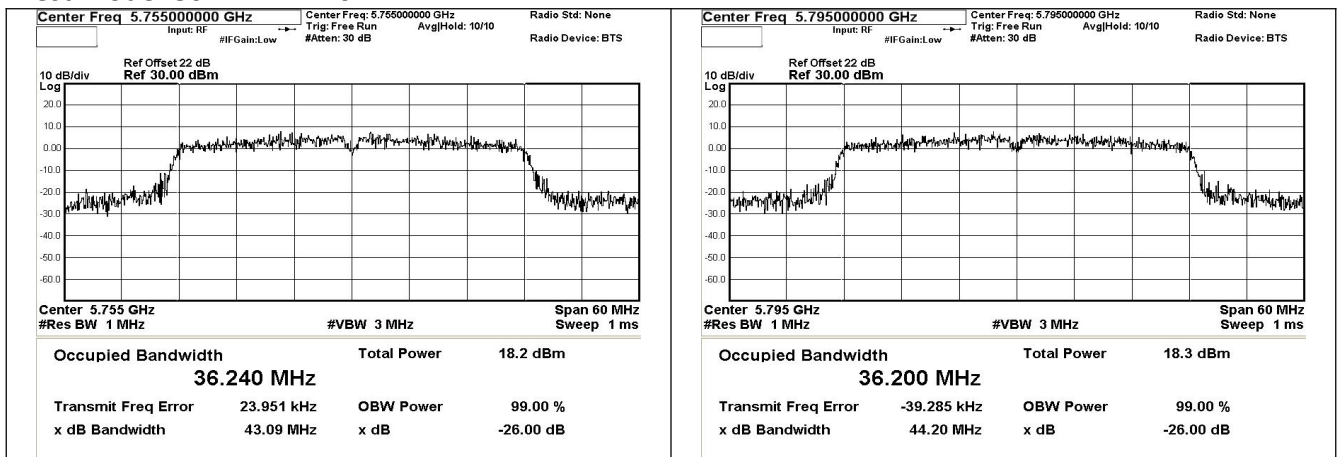
Mode:802.11ac VHT20 Frequency:5745MHz Ant:Chain1



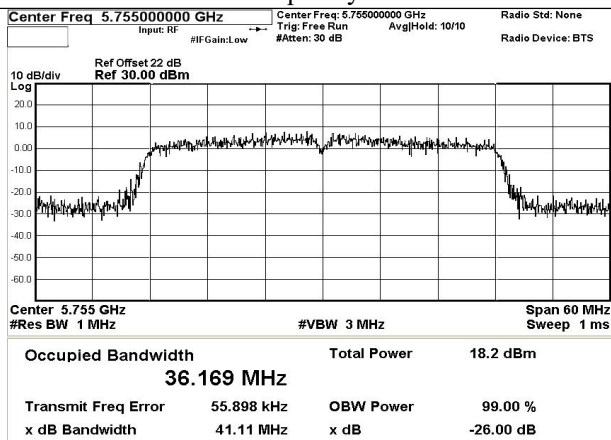
Mode:802.11ac VHT20 Frequency:5785MHz Ant:Chain1

Mode:802.11ac VHT20 Frequency:5825MHz Ant:Chain1

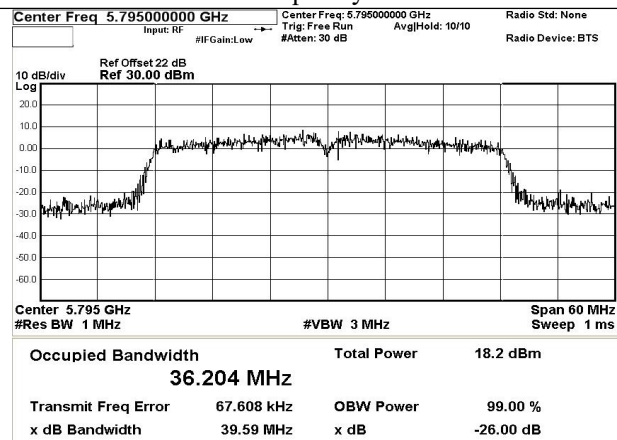
Test Mode: 802.11n HT40



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



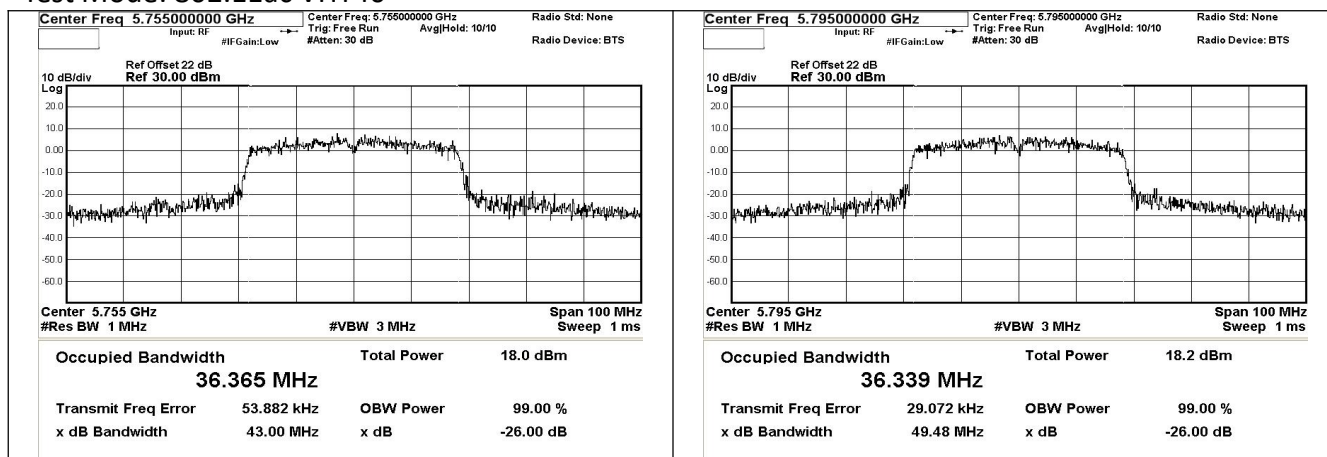
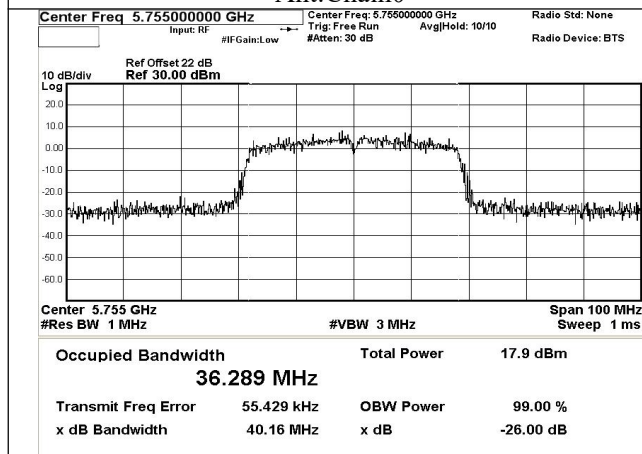
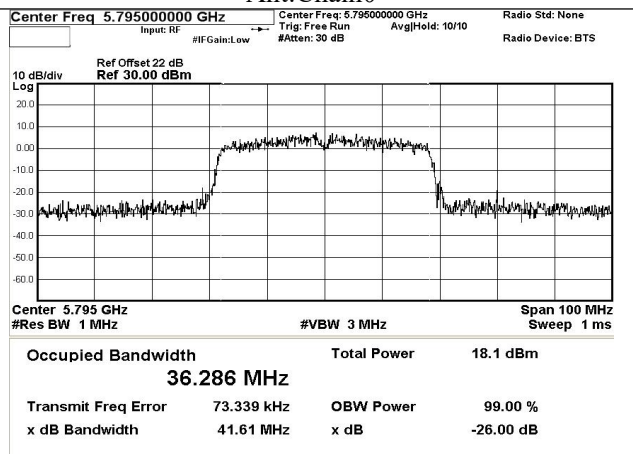
Mode:802.11n HT40 Frequency:5795MHz Ant:Chain0



Mode:802.11n HT40 Frequency:5755MHz Ant:Chain1

Mode:802.11n HT40 Frequency:5795MHz Ant:Chain1

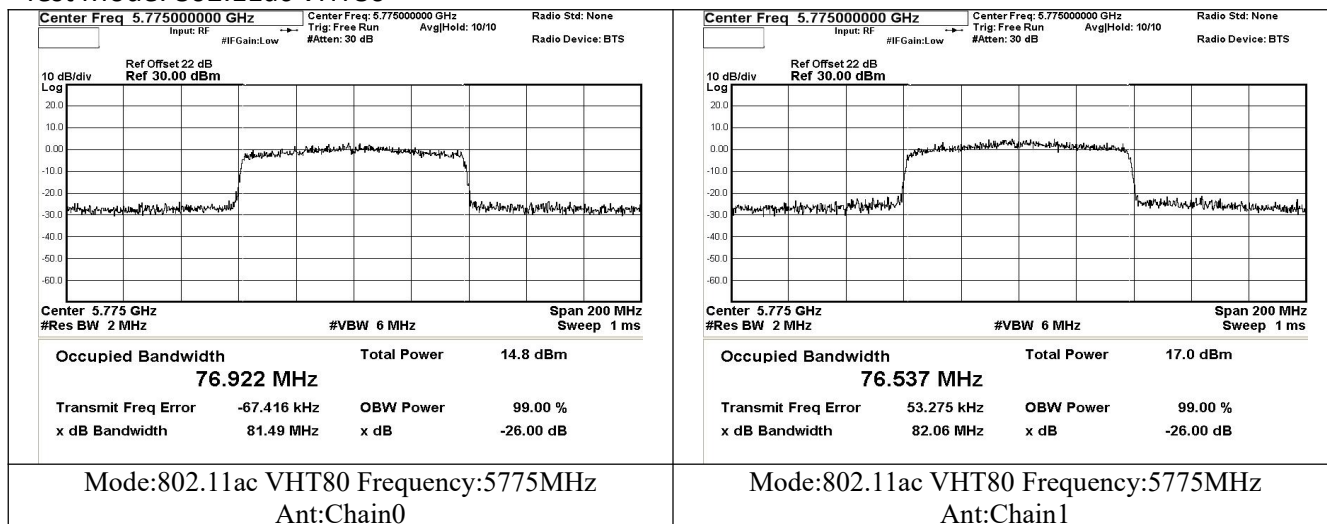
Test Mode: 802.11ac VHT40

Mode:802.11ac VHT40 Frequency:5755MHz
Ant:Chain0Mode: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

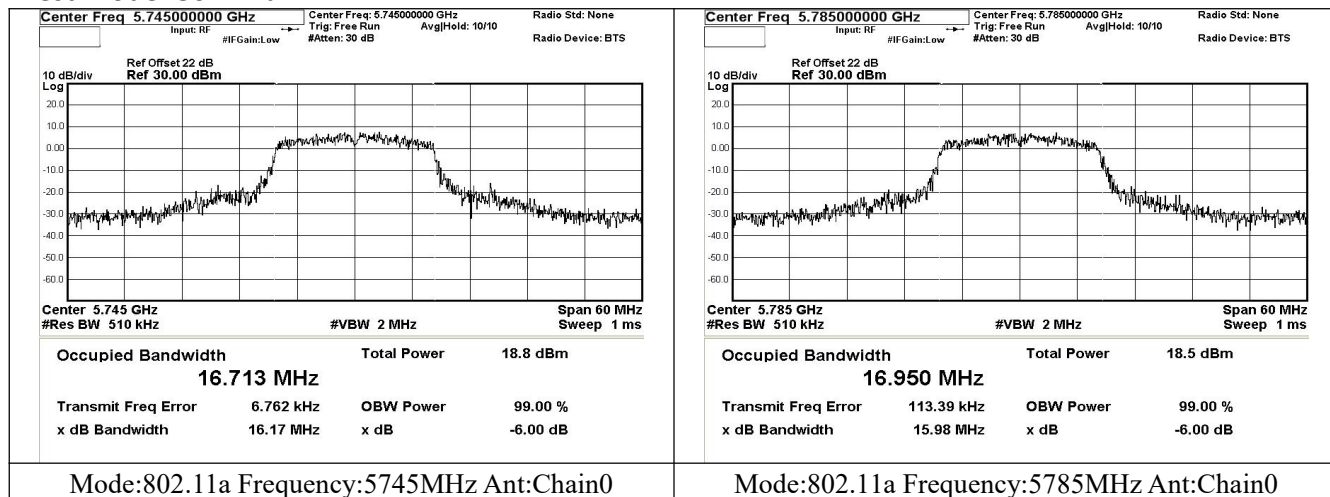
Offset 22dB = Attenuator + Temporary antenna connector loss + Cable loss

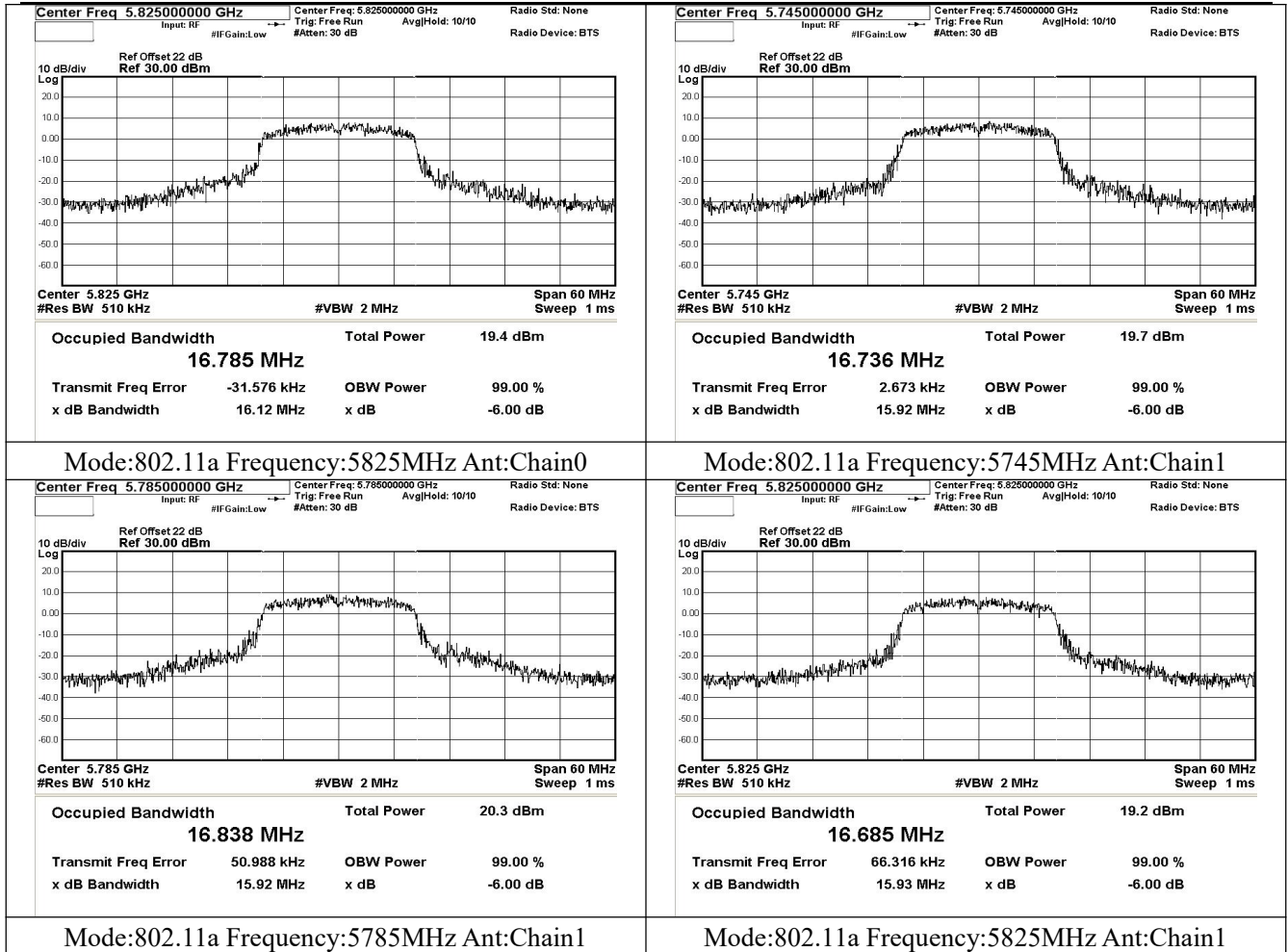
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.713	16.950	16.785
802.11a	Chain1	16.736	16.838	16.685
802.11n HT20	Chain0	17.844	17.880	17.838
802.11n HT20	Chain1	17.805	17.776	17.816
802.11ac VHT20	Chain0	17.899	17.835	18.022
802.11ac VHT20	Chain1	17.723	17.794	17.727

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5755MHz	---	5795MHz
802.11n HT40	Chain0	36.287	---	36.203
802.11n HT40	Chain1	36.170	---	36.162
802.11ac VHT40	Chain0	36.445	---	36.293
802.11ac VHT40	Chain1	36.246	---	36.184

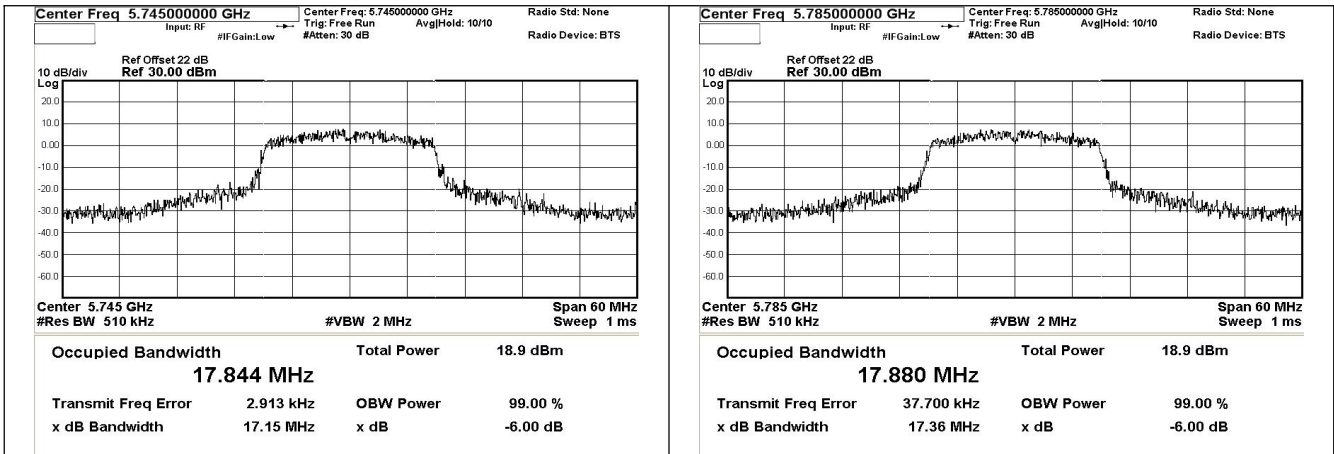
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5775MHz	---	---
802.11ac VHT80	Chain0	76.720	---	---
802.11ac VHT80	Chain1	76.594	---	---

Test Mode: 802.11a

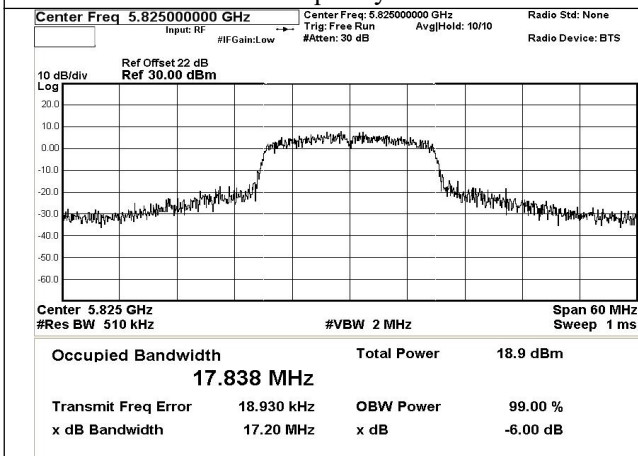




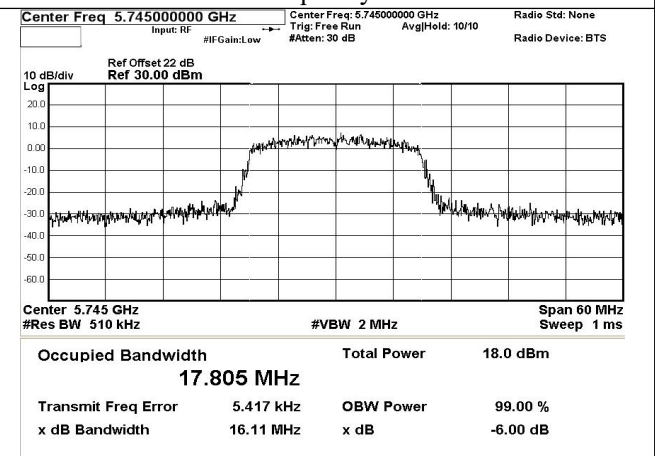
Test Mode: 802.11n HT20



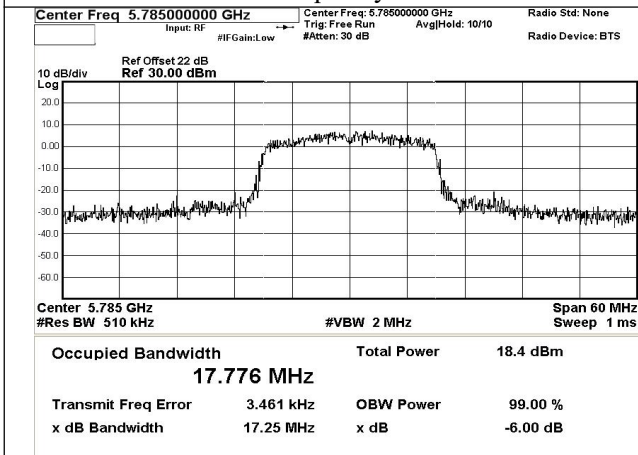
Mode:802.11n HT20 Frequency:5745MHz Ant:Chain0



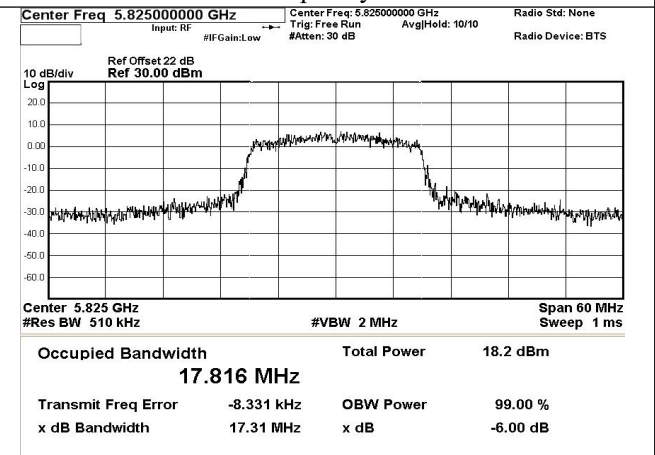
Mode:802.11n HT20 Frequency:5785MHz Ant:Chain0



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