

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5180	98.03%	0	Fig.1
802.11a	5180	98.10%	0	Fig.2
802.11n HT20	5180	94.29%	0.26	Fig.3
802.11n HT20	5180	94.29%	0.26	Fig.4
802.11ac VHT20	5180	93.86%	0.28	Fig.5
802.11ac VHT20	5180	93.85%	0.28	Fig.6
802.11n HT40	5190	94.30%	0.25	Fig.7
802.11n HT40	5190	94.36%	0.25	Fig.8
802.11ac VHT40	5190	89.07%	0.50	Fig.9
802.11ac VHT40	5190	89.19%	0.50	Fig.10
802.11ac VHT80	5210	82.16%	0.85	Fig.11
802.11ac VHT80	5210	81.99%	0.86	Fig.12

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	5180	Chain0	14.89	17.39
802.11a	NA	5180	Chain1	14.52	17.02
802.11a	NA	5220	Chain0	14.28	16.78
802.11a	NA	5220	Chain1	13.90	16.40
802.11a	NA	5240	Chain0	14.26	16.76
802.11a	NA	5240	Chain1	14.10	16.60
802.11n HT20	NA	5180	Chain0	15.24	17.74
802.11n HT20	NA	5180	Chain1	15.20	17.70
802.11n HT20	NA	5180	MIMO	18.23	20.73
802.11n HT20	NA	5220	Chain0	15.10	17.60
802.11n HT20	NA	5220	Chain1	14.94	17.44
802.11n HT20	NA	5220	MIMO	18.03	20.53
802.11n HT20	NA	5240	Chain0	15.14	17.64
802.11n HT20	NA	5240	Chain1	15.16	17.66
802.11n HT20	NA	5240	MIMO	18.16	20.66
802.11ac VHT20	NA	5180	Chain0	13.63	16.13
802.11ac VHT20	NA	5180	Chain1	13.27	15.77
802.11ac VHT20	NA	5180	MIMO	16.46	18.96
802.11ac VHT20	NA	5220	Chain0	13.58	16.08
802.11ac VHT20	NA	5220	Chain1	13.18	15.68
802.11ac VHT20	NA	5220	MIMO	16.39	18.89
802.11ac VHT20	NA	5240	Chain0	13.52	16.02
802.11ac VHT20	NA	5240	Chain1	13.29	15.79
802.11ac VHT20	NA	5240	MIMO	16.42	18.92
802.11n HT40	NA	5190	Chain0	14.76	17.26
802.11n HT40	NA	5190	Chain1	14.74	17.24
802.11n HT40	NA	5190	MIMO	17.76	20.26
802.11n HT40	NA	5230	Chain0	14.78	17.28
802.11n HT40	NA	5230	Chain1	14.85	17.35
802.11n HT40	NA	5230	MIMO	17.83	20.33
802.11ac VHT40	NA	5190	Chain0	13.07	15.57
802.11ac VHT40	NA	5190	Chain1	12.74	15.24
802.11ac VHT40	NA	5190	MIMO	15.92	18.42
802.11ac VHT40	NA	5230	Chain0	13.14	15.64
802.11ac VHT40	NA	5230	Chain1	12.87	15.37
802.11ac VHT40	NA	5230	MIMO	16.02	18.52
802.11ac VHT80	NA	5210	Chain0	12.00	14.50
802.11ac VHT80	NA	5210	Chain1	11.84	14.34
802.11ac VHT80	NA	5210	MIMO	14.93	17.43

Emission Bandwidth

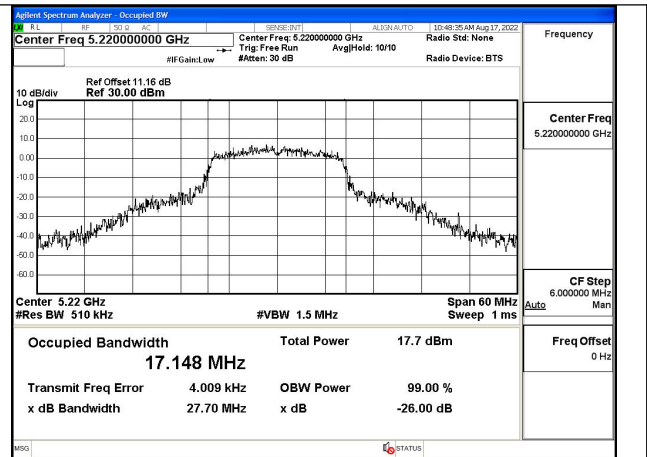
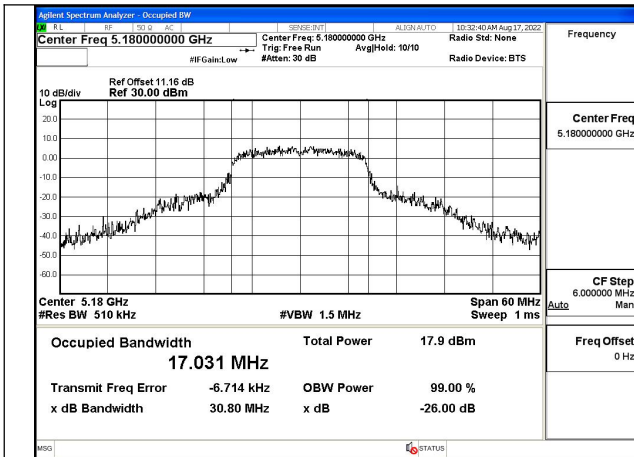
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.554	Channel No.562	Channel No.566
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	30.80	27.70	28.62
802.11a	Chain1	22.73	21.88	21.54
802.11n HT20	Chain0	29.30	29.95	29.77
802.11n HT20	Chain1	27.55	23.07	28.46
802.11ac VHT20	Chain0	26.78	28.26	26.09
802.11ac VHT20	Chain1	20.60	23.09	20.86

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.556	---	Channel No.564
		5190MHz	---	5230MHz
802.11n HT40	Chain0	72.43	---	75.51
802.11n HT40	Chain1	70.92	---	74.29
802.11ac VHT40	Chain0	58.43	---	65.92
802.11ac VHT40	Chain1	40.87	---	45.83

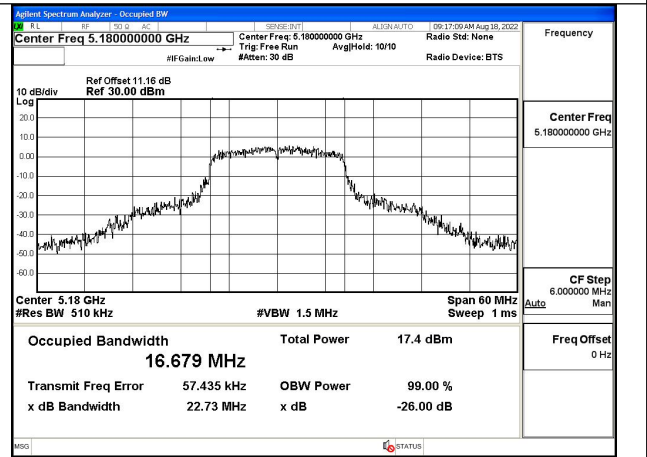
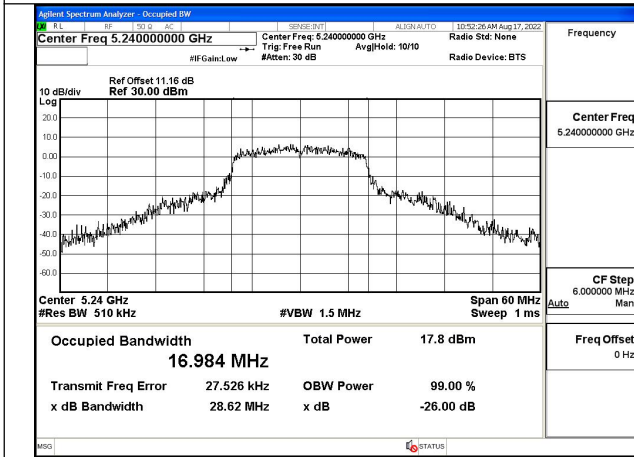
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.560	---	---
		5210MHz	---	---
802.11ac VHT80	Chain0	100.09	---	---
802.11ac VHT80	Chain1	80.80	---	---

Test Mode: 802.11a



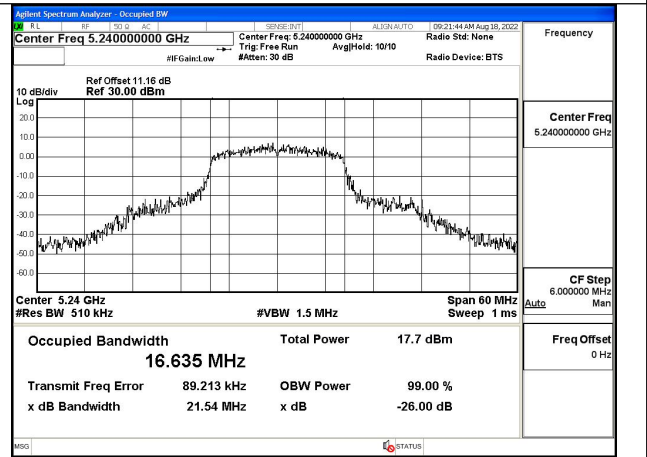
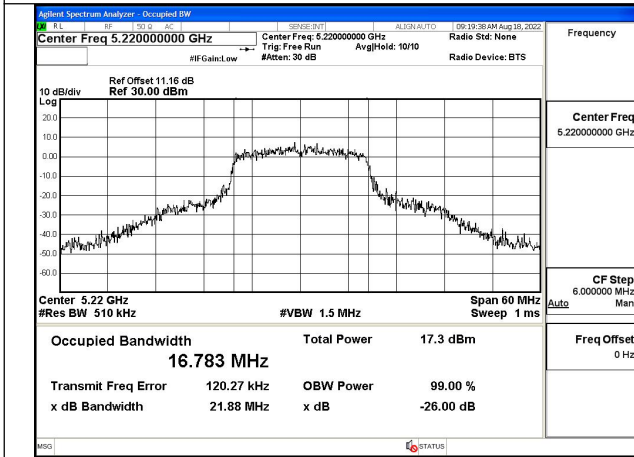
Test Mode:802.11a 5180MHz Chain0

Test Mode:802.11a 5220MHz Chain0



Test Mode:802.11a 5240MHz Chain0

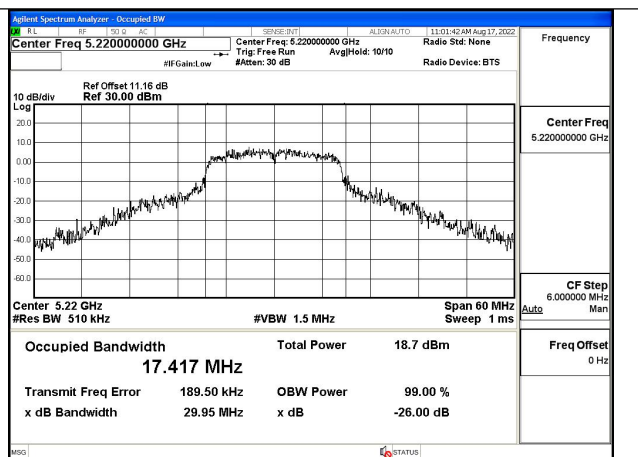
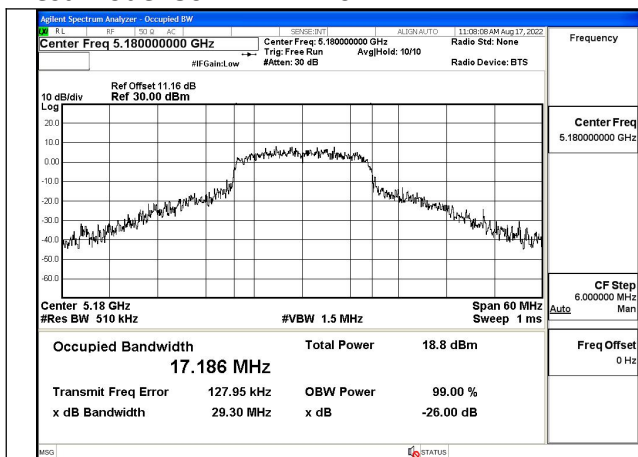
Test Mode:802.11a 5180MHz Chain1



Test Mode:802.11a 5220MHz Chain1

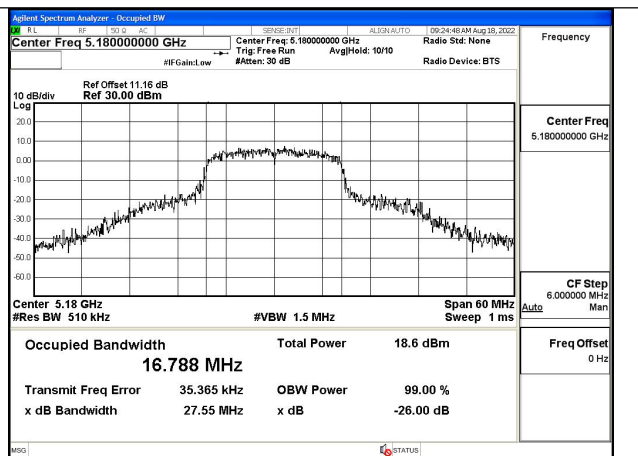
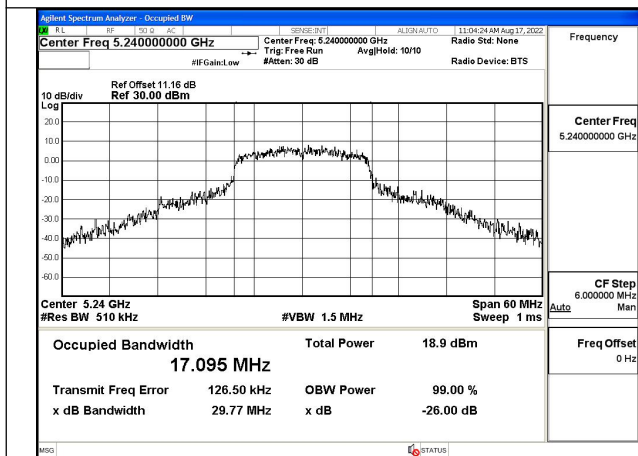
Test Mode:802.11a 5240MHz Chain1

Test Mode: 802.11n HT20



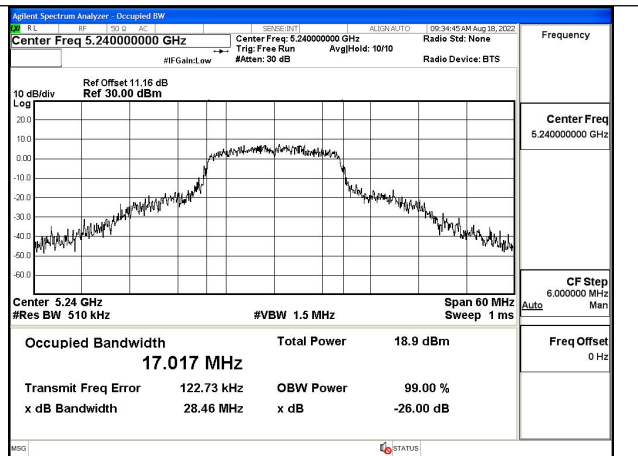
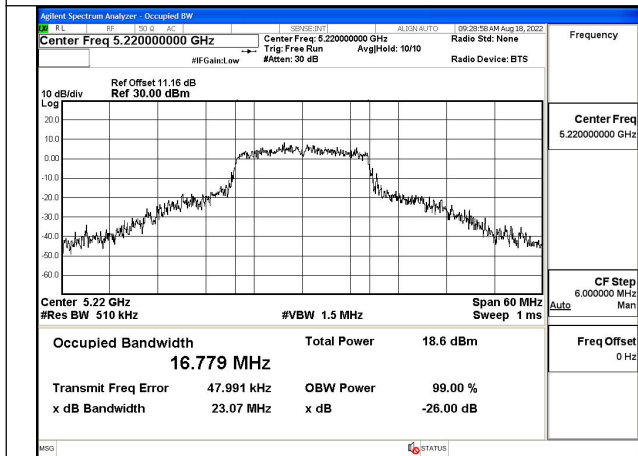
Test Mode:802.11n HT20 5180MHz Chain0

Test Mode:802.11n HT20 5220MHz Chain0



Test Mode:802.11n HT20 5240MHz Chain0

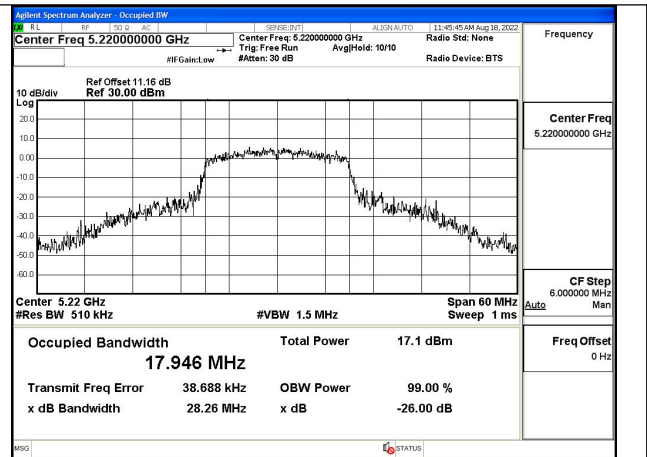
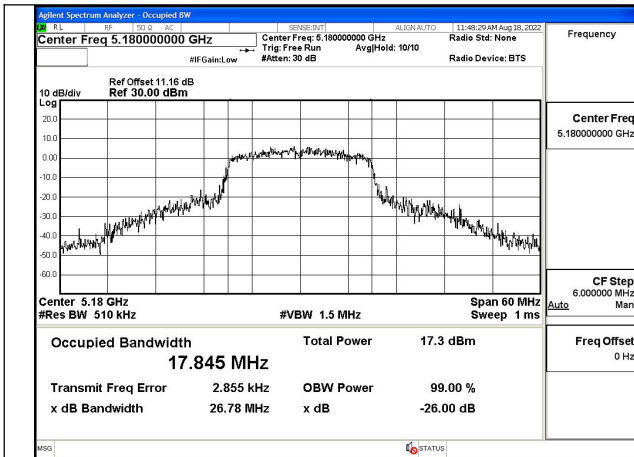
Test Mode:802.11n HT20 5180MHz Chain1



Test Mode:802.11n HT20 5220MHz Chain1

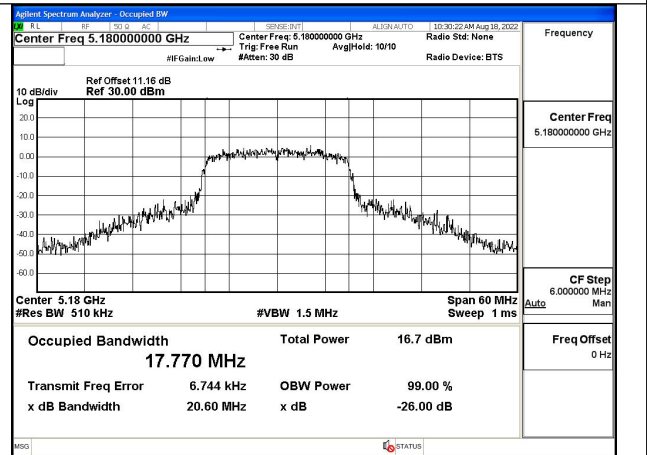
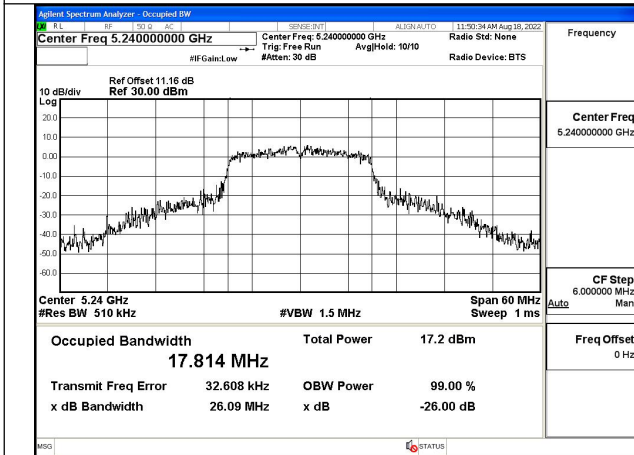
Test Mode:802.11n HT20 5240MHz Chain1

Test Mode: 802.11ac VHT20



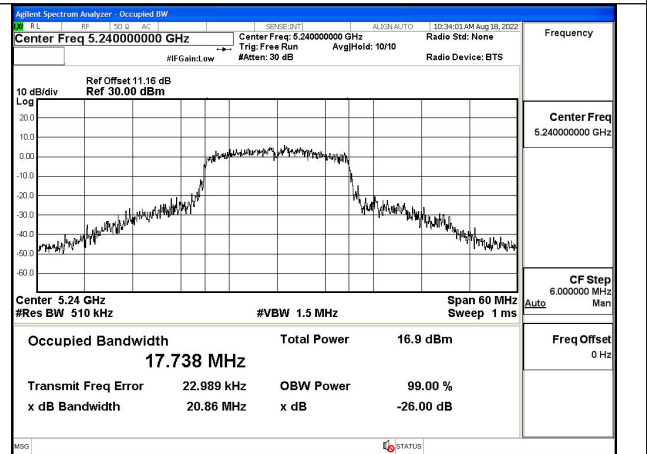
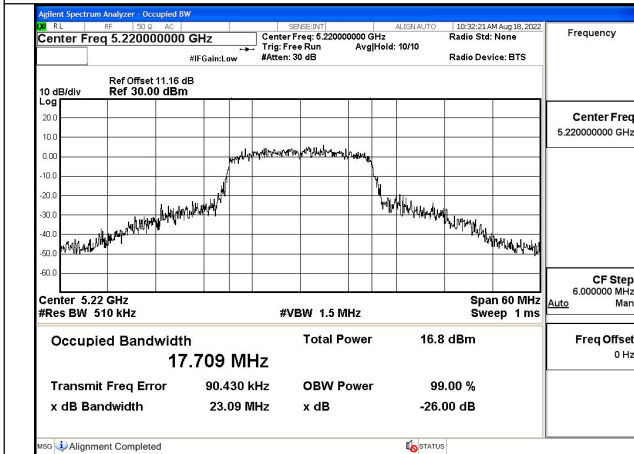
Test Mode:802.11ac VHT20 5180MHz Chain0

Test Mode:802.11ac VHT20 5220MHz Chain0



Test Mode:802.11ac VHT20 5240MHz Chain0

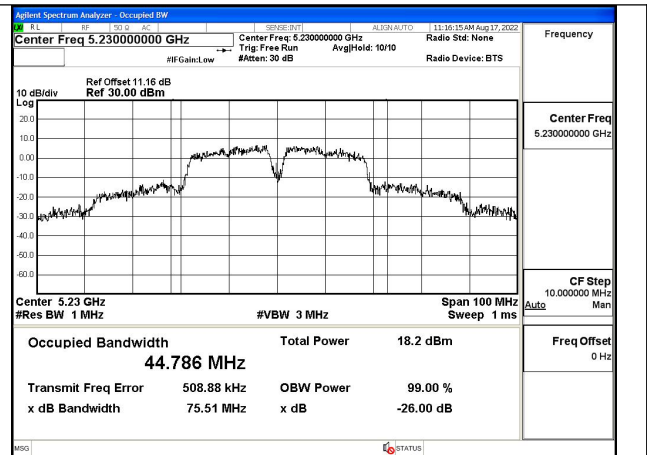
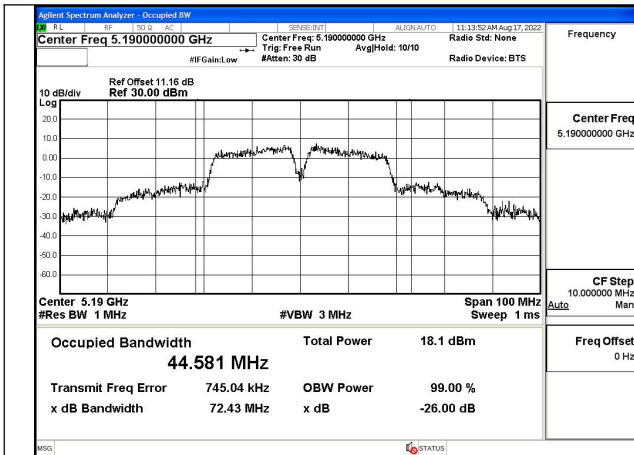
Test Mode:802.11ac VHT20 5180MHz Chain1



Test Mode:802.11ac VHT20 5220MHz Chain1

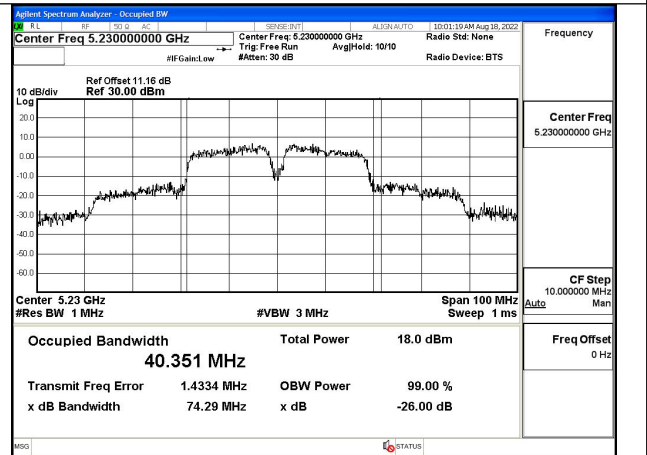
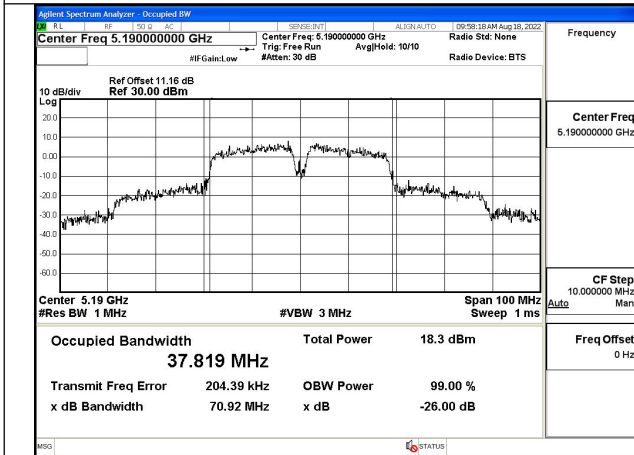
Test Mode:802.11ac VHT20 5240MHz Chain1

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5190MHz Chain0

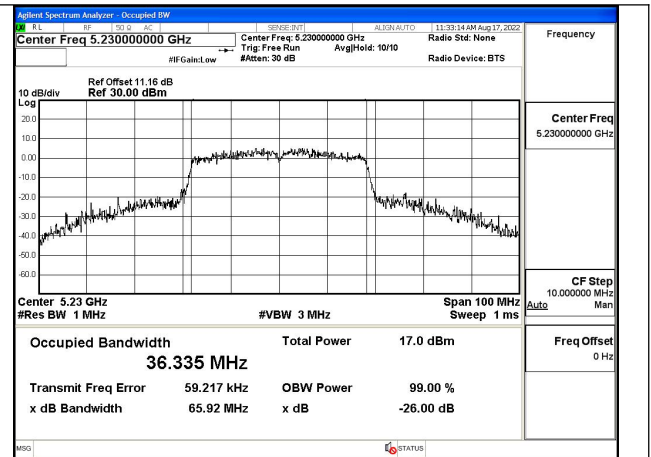
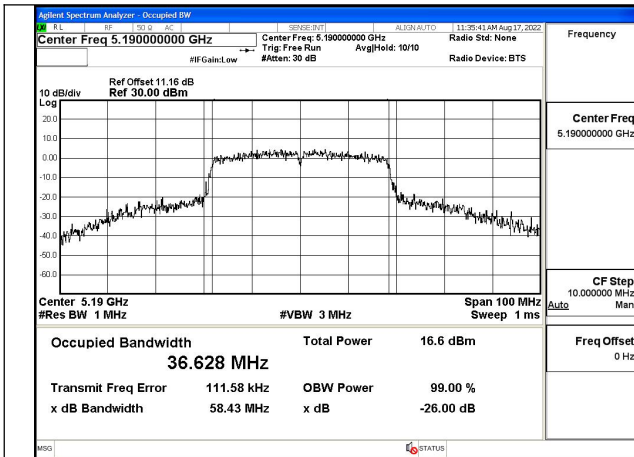
Test Mode:802.11n HT40 5230MHz Chain0



Test Mode:802.11n HT40 5190MHz Chain1

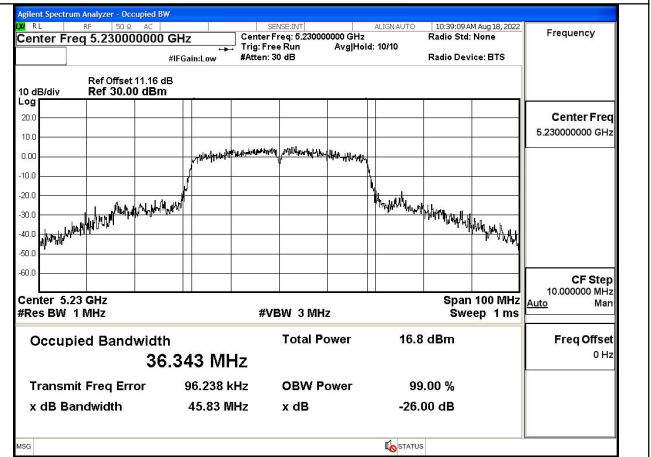
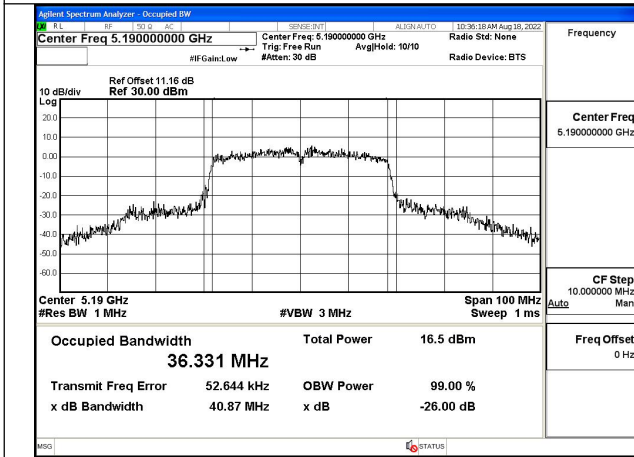
Test Mode:802.11n HT40 5230MHz Chain1

Test Mode: 802.11ac VHT40



Test Mode:802.11ac VHT40 5190MHz Chain0

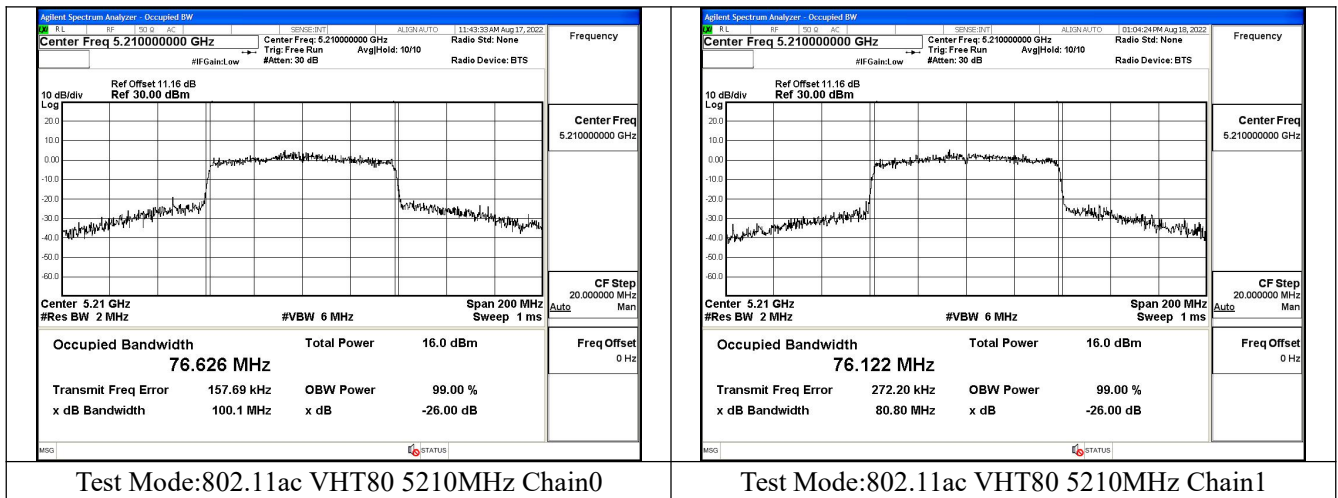
Test Mode:802.11ac VHT40 5230MHz Chain0



Test Mode:802.11ac VHT40 5190MHz Chain1

Test Mode:802.11ac VHT40 5230MHz Chain1

Test Mode: 802.11ac VHT80



Occupied Bandwidth

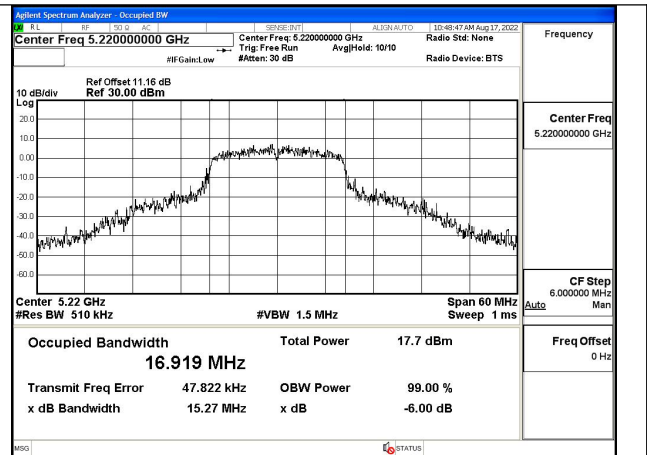
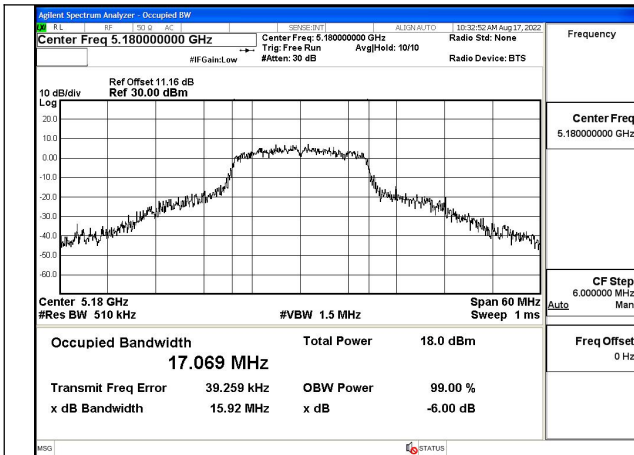
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.554	Channel No.562	Channel No.566
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	17.069	16.919	16.942
802.11a	Chain1	16.771	16.814	16.872
802.11n HT20	Chain0	17.275	17.275	16.936
802.11n HT20	Chain1	16.873	16.988	16.932
802.11ac VHT20	Chain0	17.867	17.779	17.917
802.11ac VHT20	Chain1	17.791	17.754	17.809

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.556	---	Channel No.564
		5190MHz	---	5230MHz
802.11n HT40	Chain0	42.168	---	41.958
802.11n HT40	Chain1	38.098	---	38.364
802.11ac VHT40	Chain0	36.452	---	36.461
802.11ac VHT40	Chain1	36.420	---	36.393

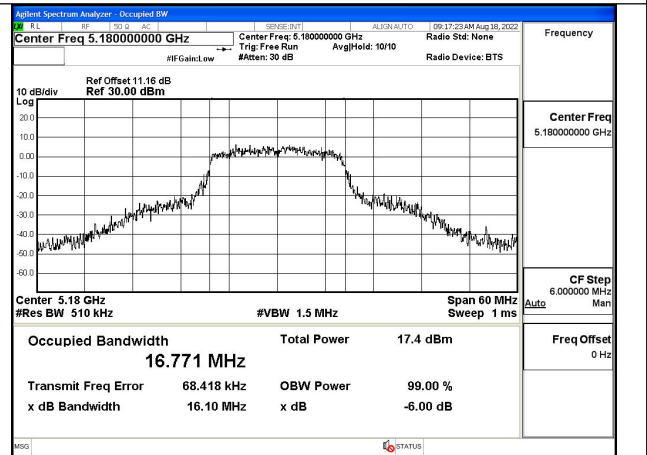
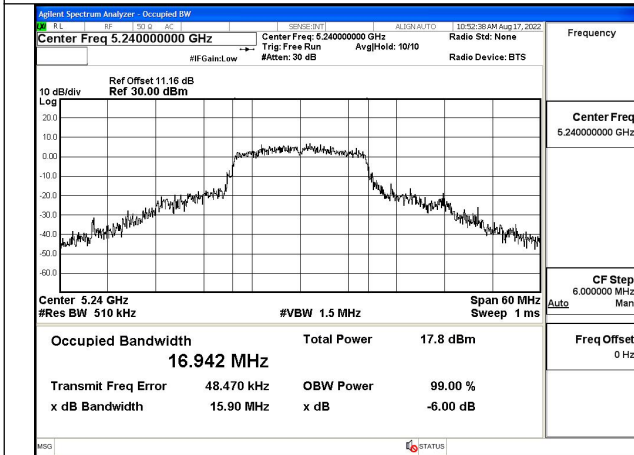
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.560	---	---
		5210MHz	---	---
802.11ac VHT80	Chain0	76.299	---	---
802.11ac VHT80	Chain1	76.242	---	---

Test Mode: 802.11a



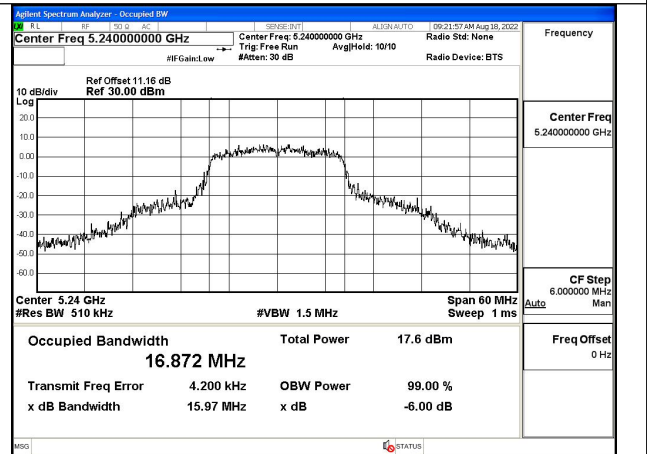
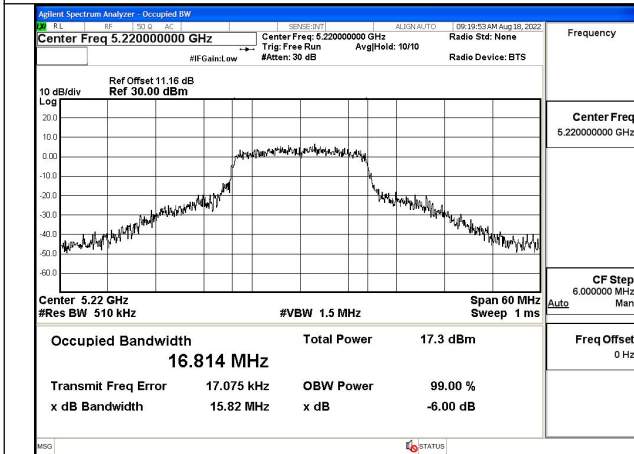
Test Mode:802.11a 5180MHz Chain0

Test Mode:802.11a 5220MHz Chain0



Test Mode:802.11a 5240MHz Chain0

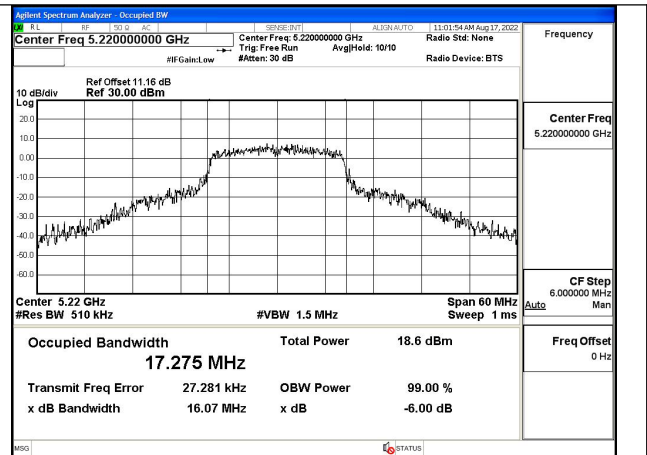
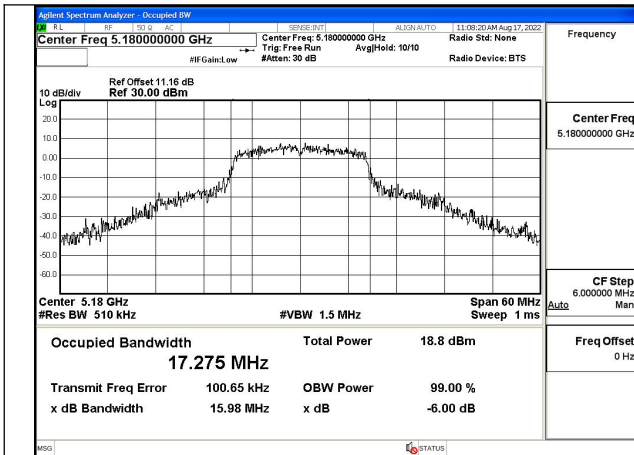
Test Mode:802.11a 5180MHz Chain1



Test Mode:802.11a 5220MHz Chain1

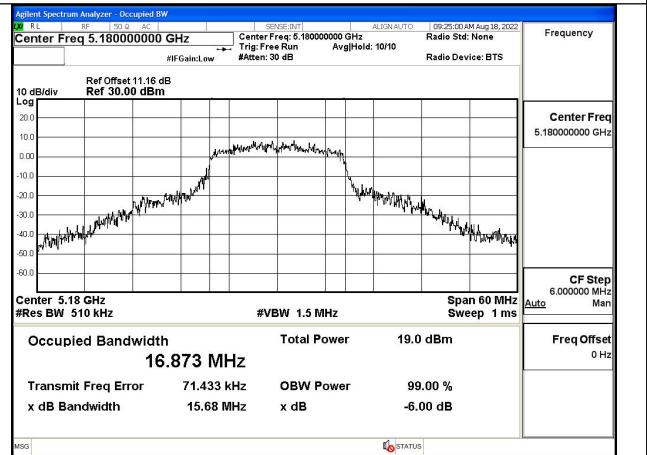
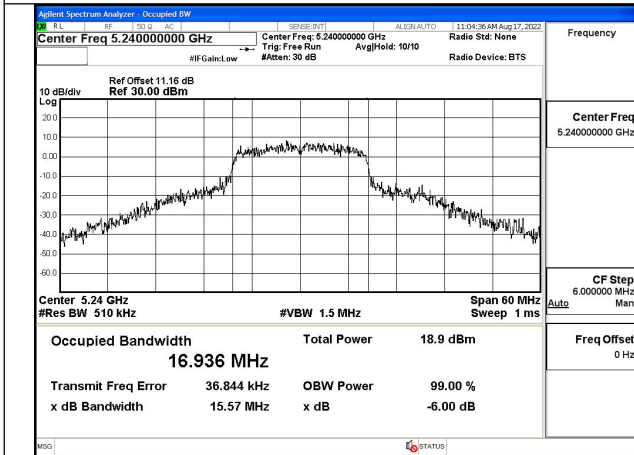
Test Mode:802.11a 5240MHz Chain1

Test Mode: 802.11n HT20



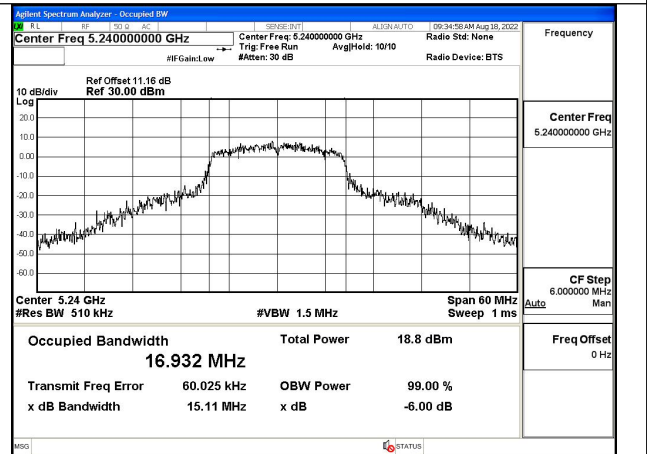
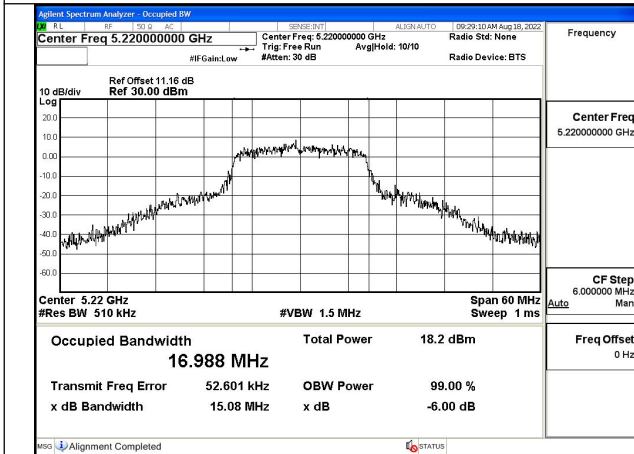
Test Mode:802.11n HT20 5180MHz Chain0

Test Mode:802.11n HT20 5220MHz Chain0



Test Mode:802.11n HT20 5240MHz Chain0

Test Mode:802.11n HT20 5180MHz Chain1



Test Mode:802.11n HT20 5220MHz Chain1

Test Mode:802.11n HT20 5240MHz Chain1