

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5500	98.68%	0
802.11a	5500	98.77%	0
802.11n HT20	5500	98.57%	0
802.11n HT20	5500	98.57%	0
802.11ac VHT20	5500	98.56%	0
802.11ac VHT20	5500	98.59%	0
802.11n HT40	5510	97.22%	0.12
802.11n HT40	5510	97.23%	0.12
802.11ac VHT40	5510	97.35%	0.12
802.11ac VHT40	5510	97.26%	0.12
802.11ac VHT80	5530	94.87%	0.23
802.11ac VHT80	5530	94.87%	0.23

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

Output Power

Mode	Tones/ RUIndex	Freq (MHz)	Antenna	Conductedaverage power output(dBm)	EIRP (dBm)
802.11a	NA	5500	Chain0	15.52	19.59
802.11a	NA	5500	Chain1	16.19	17.19
802.11a	NA	5580	Chain0	15.34	19.41
802.11a	NA	5580	Chain1	15.86	16.86
802.11a	NA	5700	Chain0	14.83	18.90
802.11a	NA	5700	Chain1	15.10	16.10
802.11n HT20	NA	5500	Chain0	15.50	19.57
802.11n HT20	NA	5500	Chain1	16.03	17.03
802.11n HT20	NA	5500	MIMO	18.78	20.96
802.11n HT20	NA	5580	Chain0	15.31	19.38
802.11n HT20	NA	5580	Chain1	15.75	16.75
802.11n HT20	NA	5580	MIMO	18.55	20.73
802.11n HT20	NA	5700	Chain0	14.72	18.79
802.11n HT20	NA	5700	Chain1	14.97	15.97
802.11n HT20	NA	5700	MIMO	17.86	20.04
802.11ac VHT20	NA	5500	Chain0	15.53	19.60
802.11ac VHT20	NA	5500	Chain1	16.00	17.00
802.11ac VHT20	NA	5500	MIMO	18.78	20.96
802.11ac VHT20	NA	5580	Chain0	15.32	19.39
802.11ac VHT20	NA	5580	Chain1	15.78	16.78
802.11ac VHT20	NA	5580	MIMO	18.57	20.75
802.11ac VHT20	NA	5700	Chain0	14.65	18.72
802.11ac VHT20	NA	5700	Chain1	14.97	15.97

Mode	Tones/ RUIndex	Freq (MHz)	Antenna	Conductedaverage power output(dBm)	EIRP (dBm)
802.11ac VHT20	NA	5700	MIMO	17.82	20.00
802.11n HT40	NA	5510	Chain0	15.38	19.45
802.11n HT40	NA	5510	Chain1	16.14	17.14
802.11n HT40	NA	5510	MIMO	18.79	20.97
802.11n HT40	NA	5590	Chain0	15.22	19.29
802.11n HT40	NA	5590	Chain1	15.58	16.58
802.11n HT40	NA	5590	MIMO	18.41	20.59
802.11n HT40	NA	5670	Chain0	14.74	18.81
802.11n HT40	NA	5670	Chain1	15.09	16.09
802.11n HT40	NA	5670	MIMO	17.93	20.11
802.11ac VHT40	NA	5510	Chain0	15.58	19.65
802.11ac VHT40	NA	5510	Chain1	16.11	17.11
802.11ac VHT40	NA	5510	MIMO	18.86	21.04
802.11ac VHT40	NA	5590	Chain0	15.21	19.28
802.11ac VHT40	NA	5590	Chain1	15.59	16.59
802.11ac VHT40	NA	5590	MIMO	18.41	20.59
802.11ac VHT40	NA	5670	Chain0	14.73	18.80
802.11ac VHT40	NA	5670	Chain1	15.22	16.22
802.11ac VHT40	NA	5670	MIMO	17.99	20.17
802.11ac VHT80	NA	5530	Chain0	15.25	19.32
802.11ac VHT80	NA	5530	Chain1	15.71	16.71
802.11ac VHT80	NA	5530	MIMO	18.50	20.68
802.11ac VHT80	NA	5610	Chain0	14.69	18.76
802.11ac VHT80	NA	5610	Chain1	15.03	16.03
802.11ac VHT80	NA	5610	MIMO	17.87	20.05

Emission Bandwidth

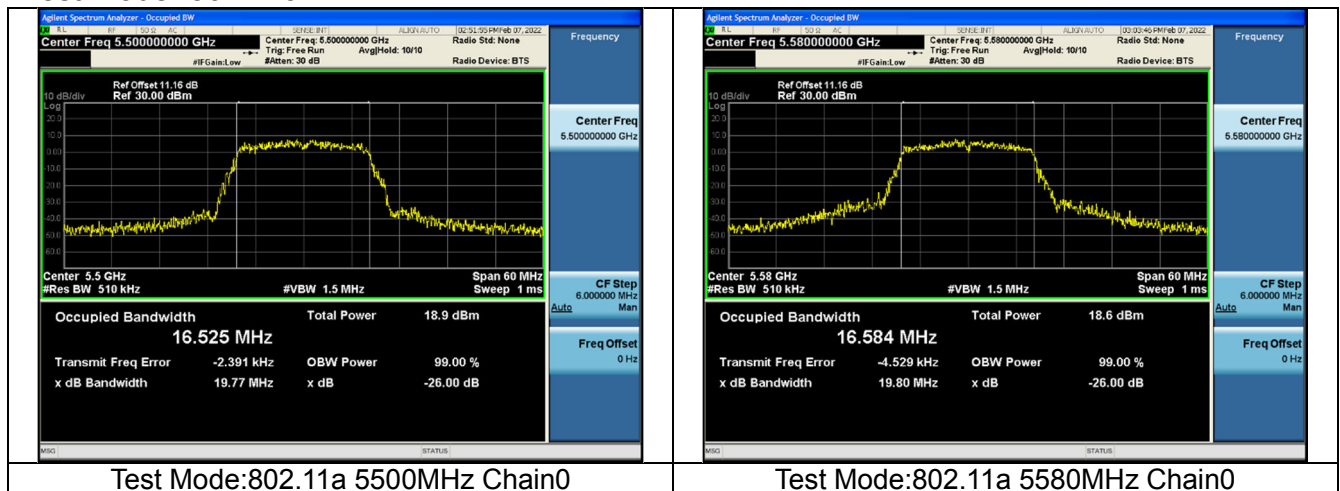
Offset 11.16dB = Attenuator 10dB+ Temporary antenna connector loss 0.2dB + Cable loss 0.96dB

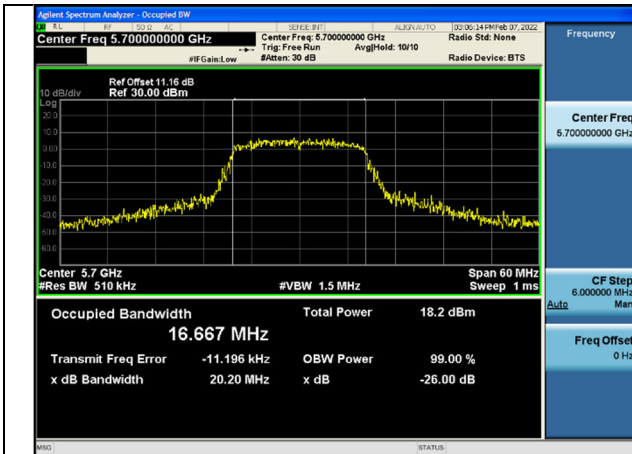
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.618	Channel No.634	Channel No.658
		5500MHz	5580MHz	5700MHz
802.11a	Chain0	19.77	19.80	20.20
802.11a	Chain1	19.82	20.20	19.98
802.11n HT20	Chain0	20.44	20.26	20.52
802.11n HT20	Chain1	19.99	20.40	20.56
802.11ac VHT20	Chain0	20.45	20.68	20.52
802.11ac VHT20	Chain1	20.11	20.30	20.22

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.620	Channel No.636	Channel No.652
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	40.45	41.01	40.67
802.11n HT40	Chain1	40.89	40.46	40.52
802.11ac VHT40	Chain0	40.36	40.73	40.57
802.11ac VHT40	Chain1	40.45	40.11	40.51

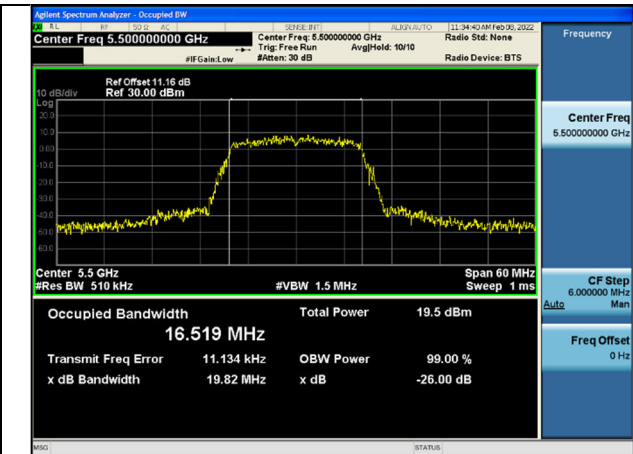
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.624	---	Channel No.640
		5530MHz	---	5610MHz
802.11ac VHT80	Chain0	81.09	---	81.57
802.11ac VHT80	Chain1	81.16	---	81.40

Test Mode: 802.11a

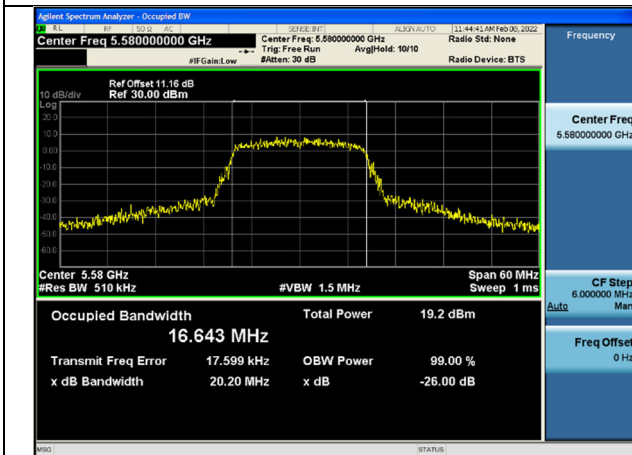




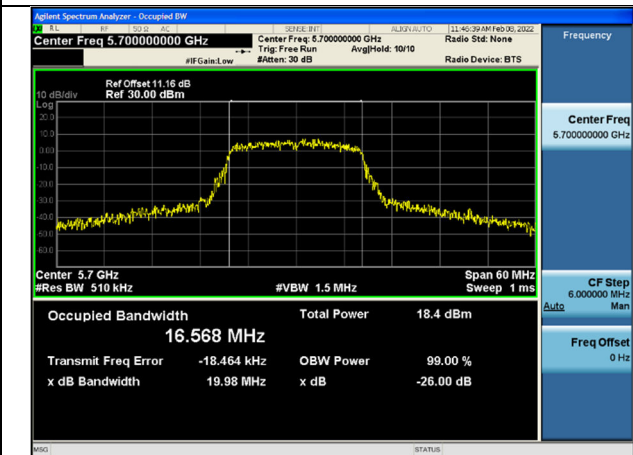
Test Mode:802.11a 5700MHz Chain0



Test Mode:802.11a 5500MHz Chain1

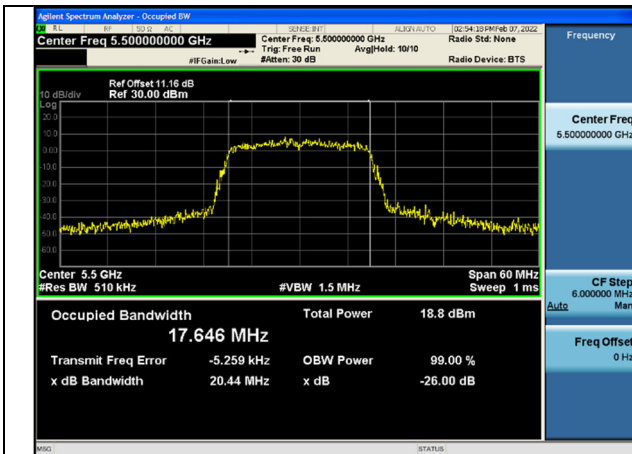


Test Mode:802.11a 5580MHz Chain1

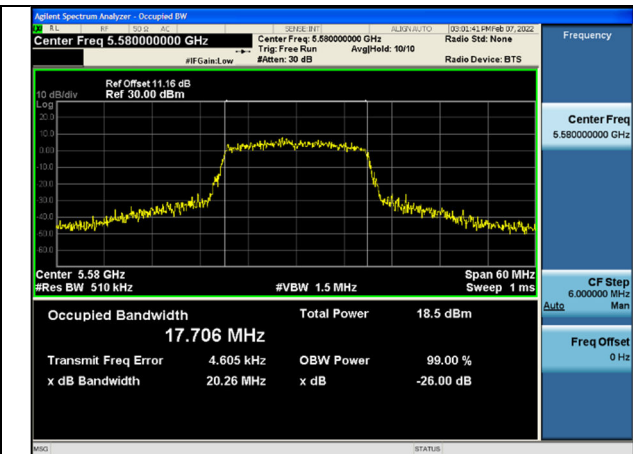


Test Mode:802.11a 5700MHz Chain1

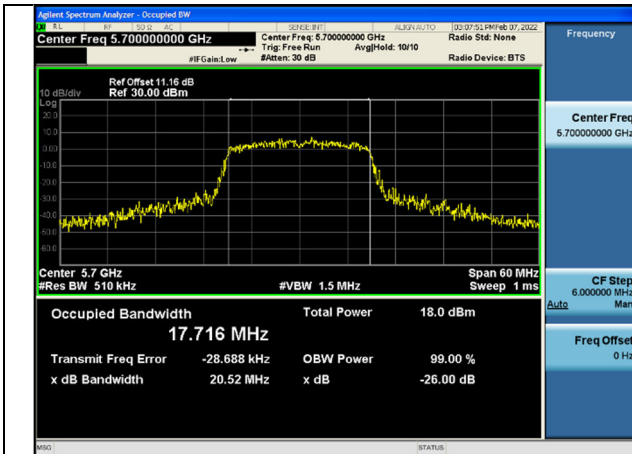
Test Mode: 802.11n HT20



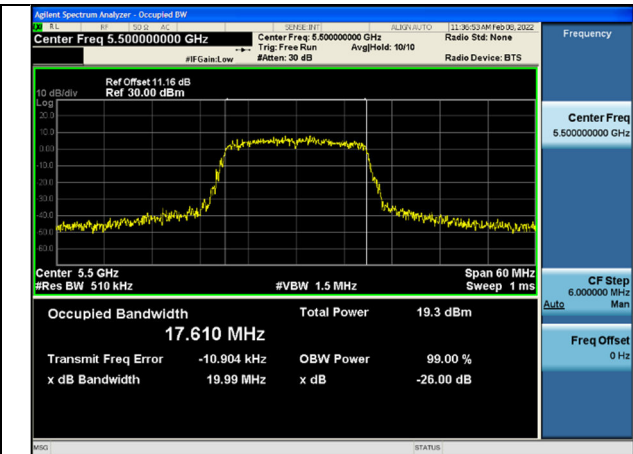
Test Mode:802.11n HT20 5500MHz Chain0



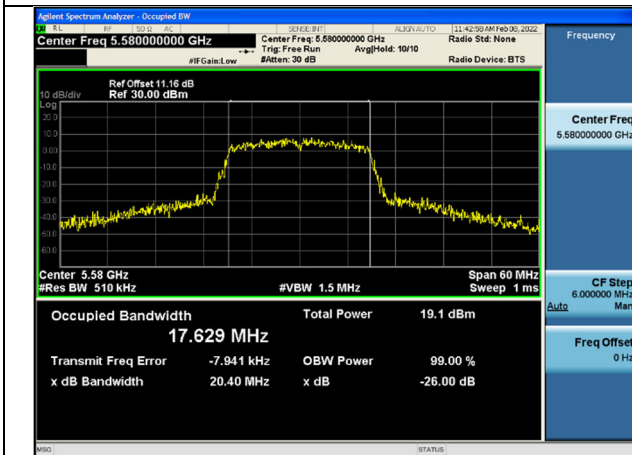
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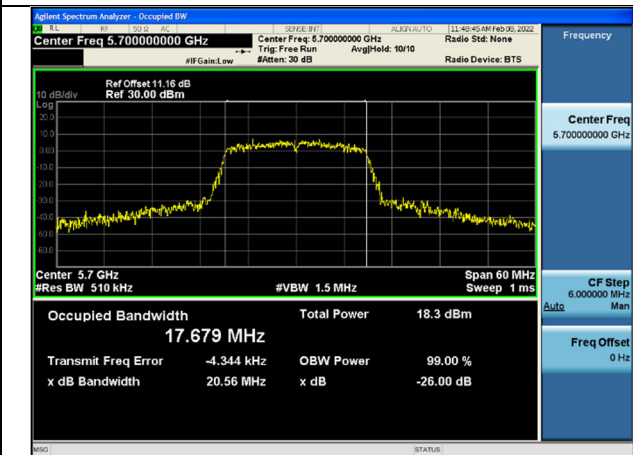
Test Mode:802.11n HT20 5700MHz Chain0



Test Mode:802.11n HT20 5500MHz Chain1

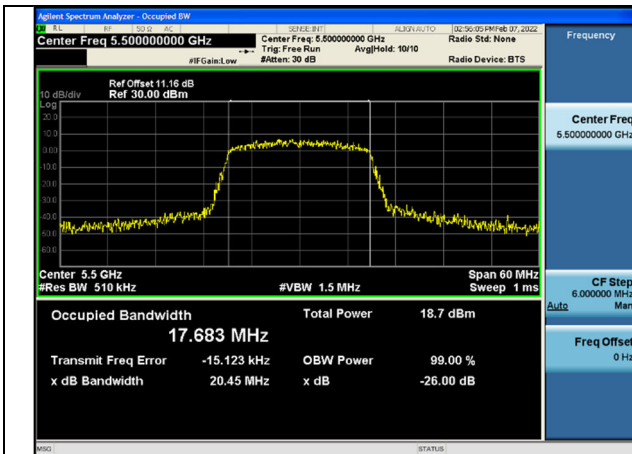


Test Mode:802.11n HT20 5580MHz Chain1

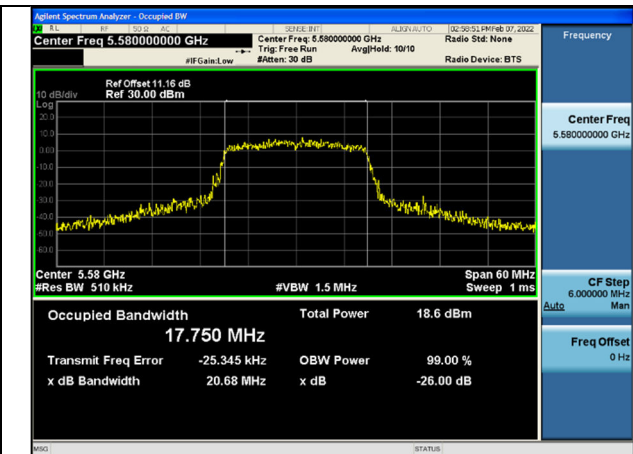


Test Mode:802.11n HT20 5700MHz Chain1

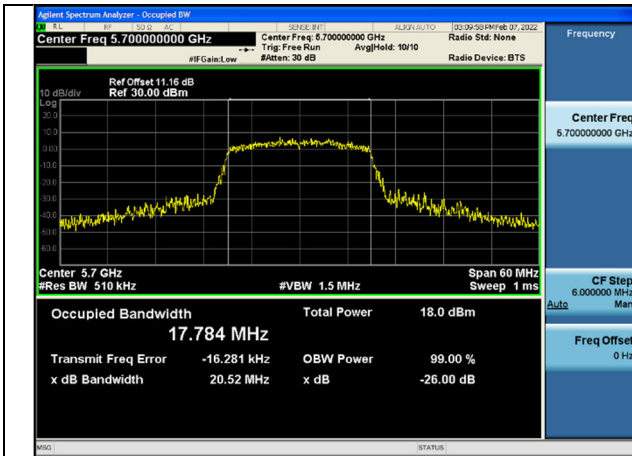
Test Mode: 802.11ac VHT20



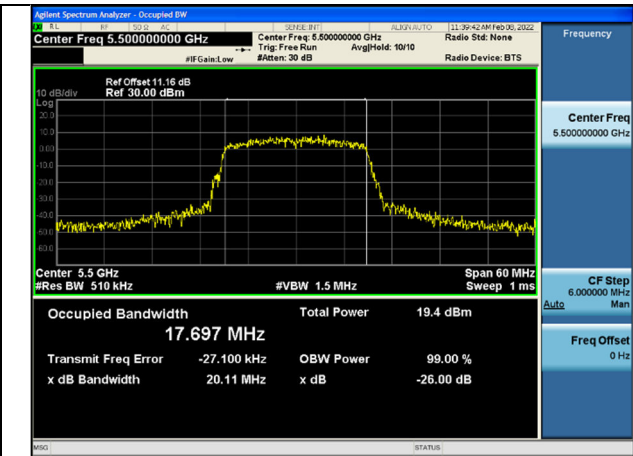
Test Mode:802.11ac VHT20 5500MHz Chain0



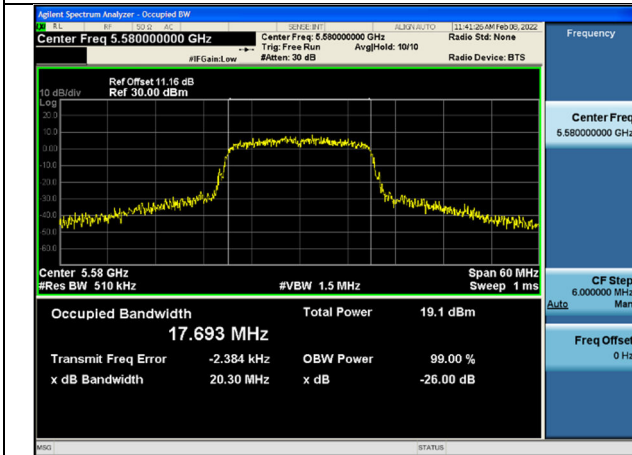
Test Mode:802.11ac VHT20 5580MHz Chain0



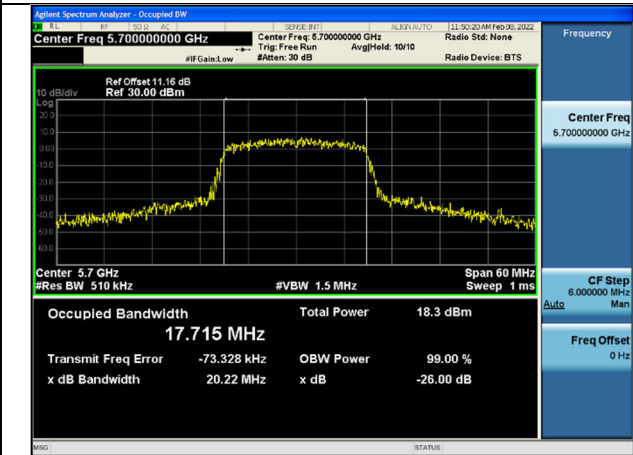
Test Mode:802.11ac VHT20 5700MHz Chain0



Test Mode:802.11ac VHT20 5500MHz Chain1

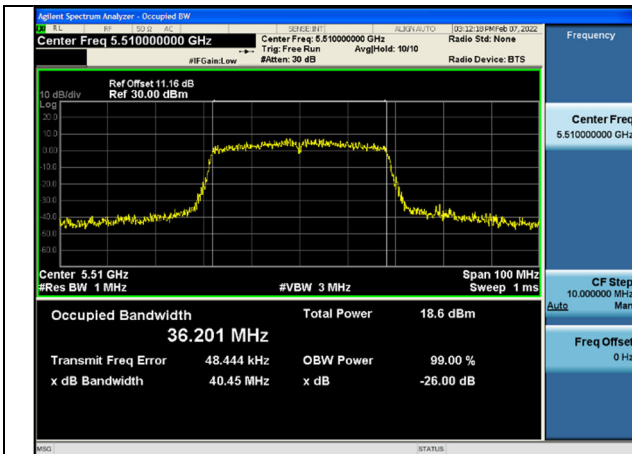


Test Mode:802.11ac VHT20 5580MHz Chain1

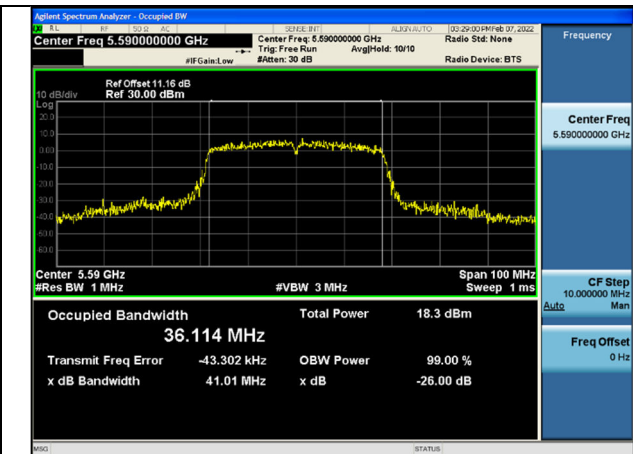


Test Mode:802.11ac VHT20 5700MHz Chain1

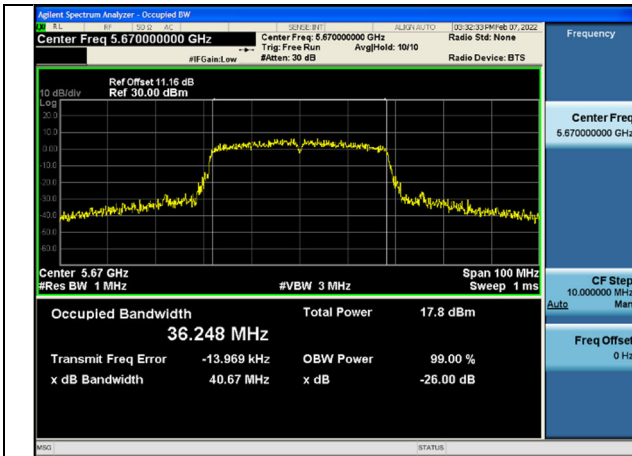
Test Mode: 802.11n HT40



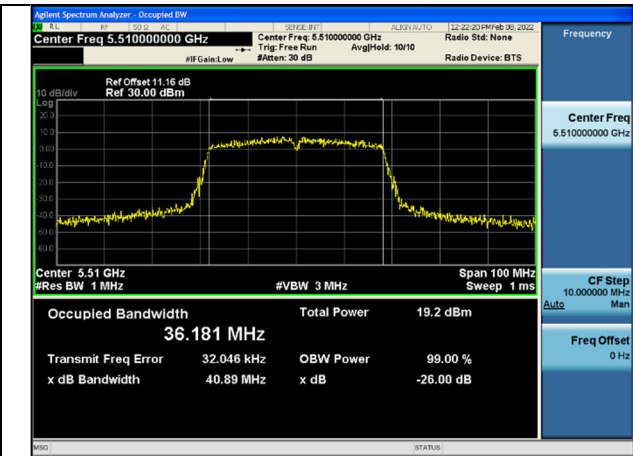
Test Mode:802.11n HT40 5510MHz Chain0



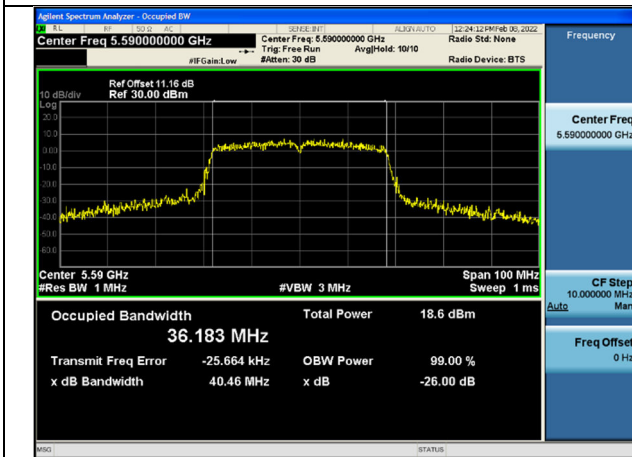
Test Mode:802.11n HT40 5590MHz Chain0



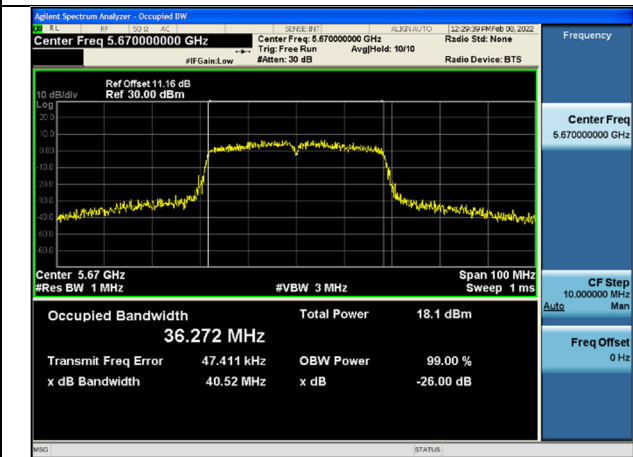
Test Mode:802.11n HT40 5670MHz Chain0



Test Mode:802.11n HT40 5510MHz Chain1

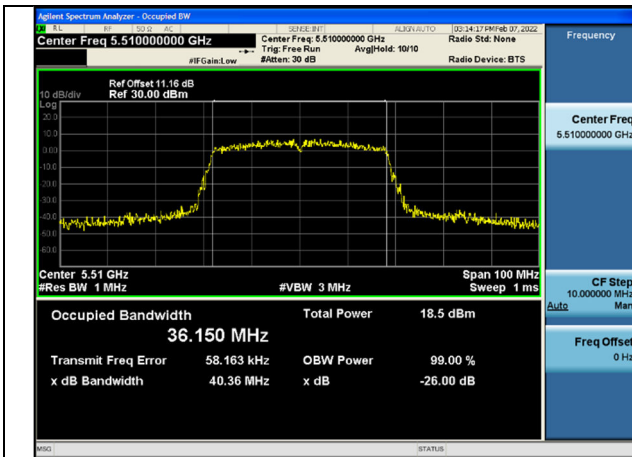


Test Mode:802.11n HT40 5590MHz Chain1

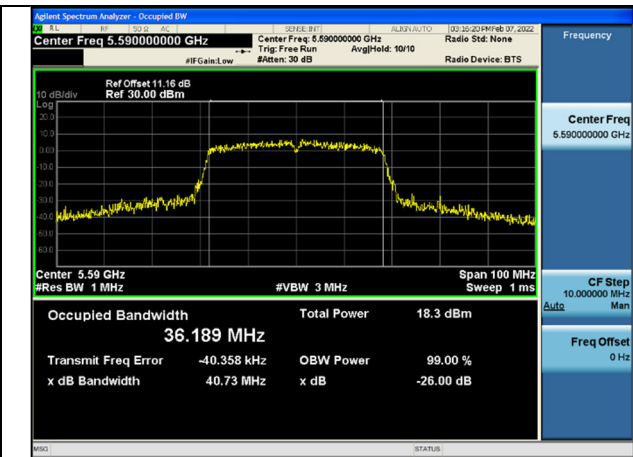


Test Mode:802.11n HT40 5670MHz Chain1

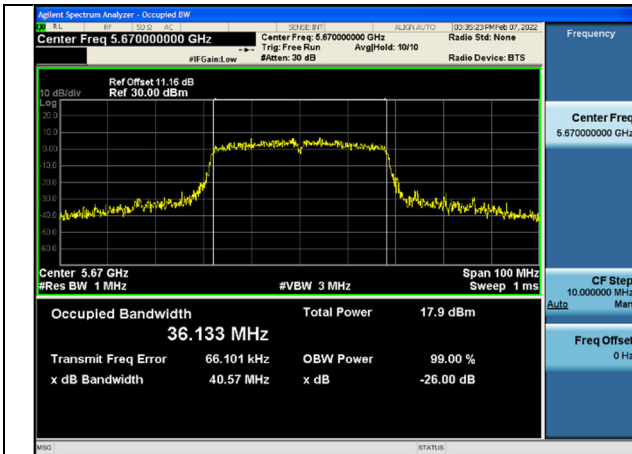
Test Mode: 802.11ac VHT40



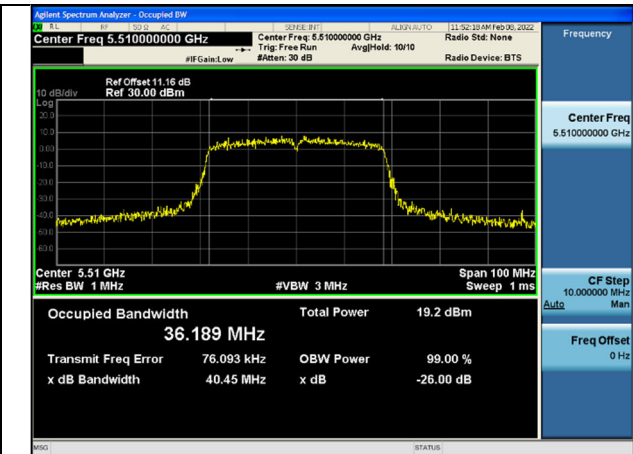
Test Mode:802.11ac VHT40 5510MHz Chain0



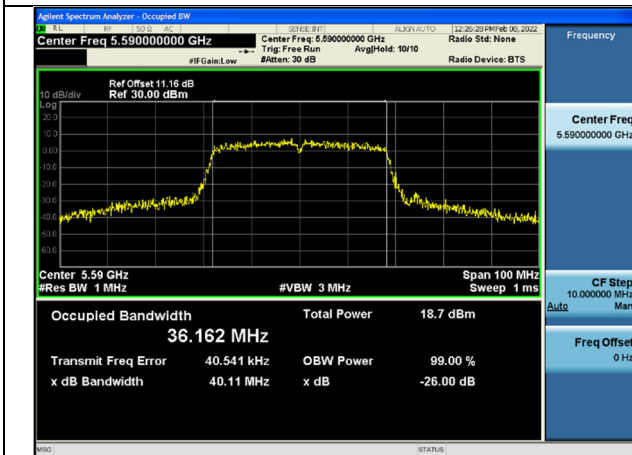
Test Mode:802.11ac VHT40 5590MHz Chain0



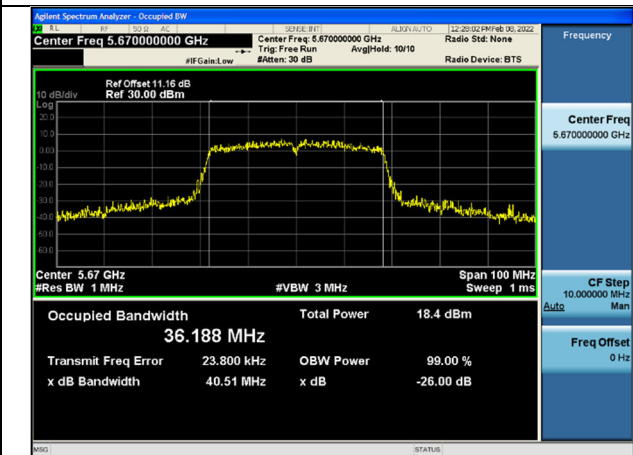
Test Mode:802.11ac VHT40 5670MHz Chain0



Test Mode:802.11ac VHT40 5510MHz Chain1

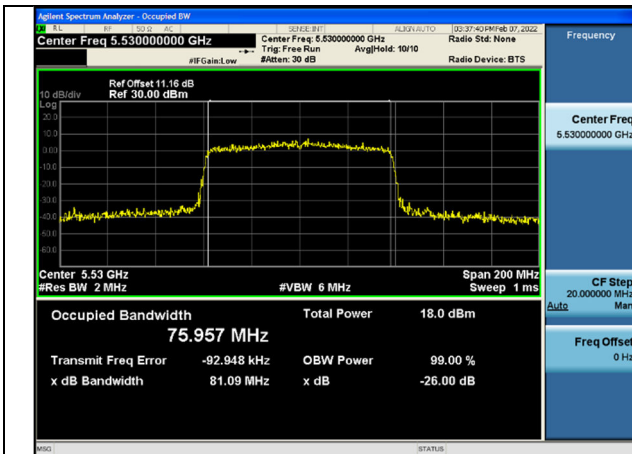


Test Mode:802.11ac VHT40 5590MHz Chain1

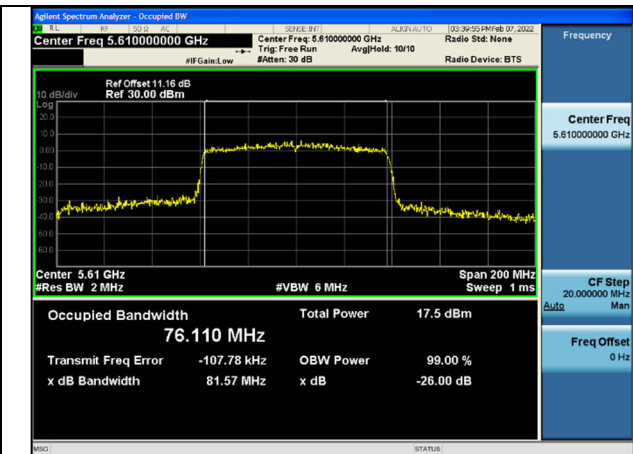


Test Mode:802.11ac VHT40 5670MHz Chain1

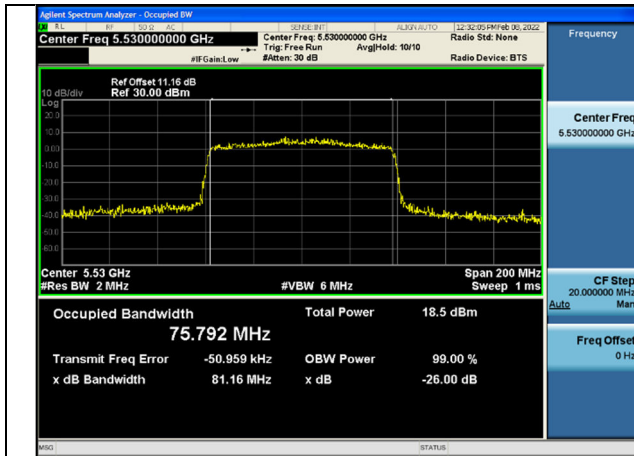
Test Mode: 802.11ac VHT80



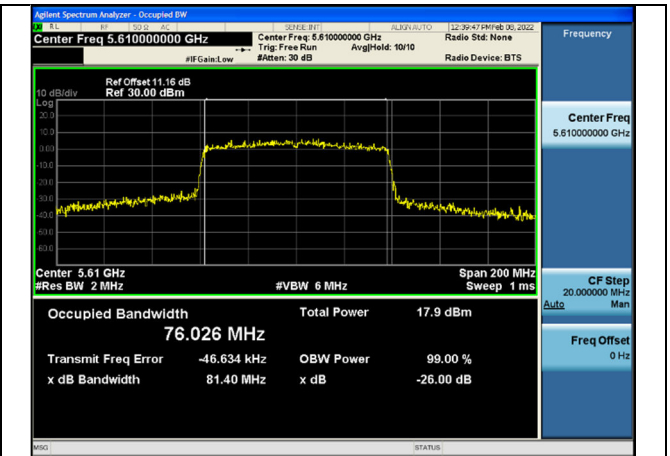
Test Mode:802.11ac VHT80 5530MHz Chain0



Test Mode:802.11ac VHT80 5610MHz Chain0



Test Mode:802.11ac VHT80 5530MHz Chain1



Test Mode:802.11ac VHT80 5610MHz Chain1

Occupied Bandwidth

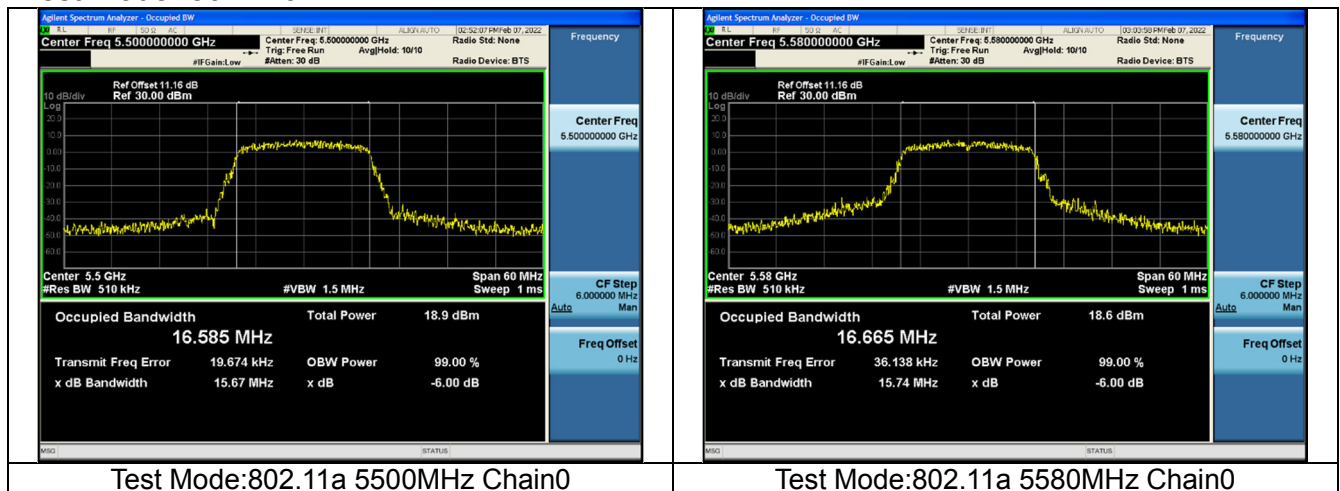
Offset 11.16dB = Attenuator 10dB+ Temporary antenna connector loss 0.2dB + Cable loss 0.96dB

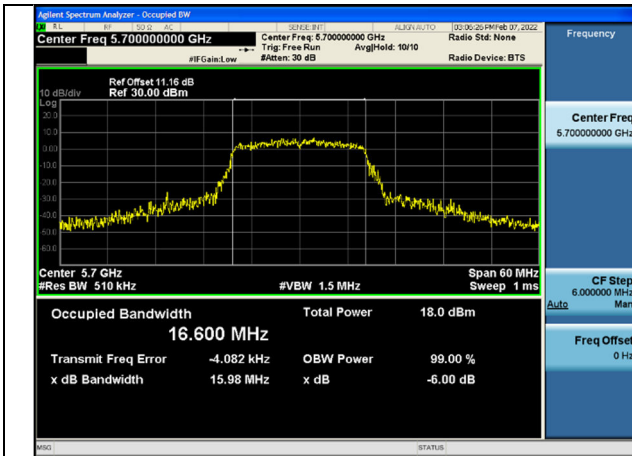
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.618	Channel No.634	Channel No.658
		5500MHz	5580MHz	5700MHz
802.11a	Chain0	16.585	16.665	16.600
802.11a	Chain1	16.608	16.631	16.541
802.11n HT20	Chain0	17.721	17.674	17.723
802.11n HT20	Chain1	17.711	17.680	17.672
802.11ac VHT20	Chain0	17.678	17.681	17.771
802.11ac VHT20	Chain1	17.688	17.740	17.631

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.620	Channel No.636	Channel No.652
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	36.132	36.290	36.167
802.11n HT40	Chain1	36.225	36.292	36.163
802.11ac VHT40	Chain0	36.195	36.292	36.212
802.11ac VHT40	Chain1	36.126	36.071	36.125

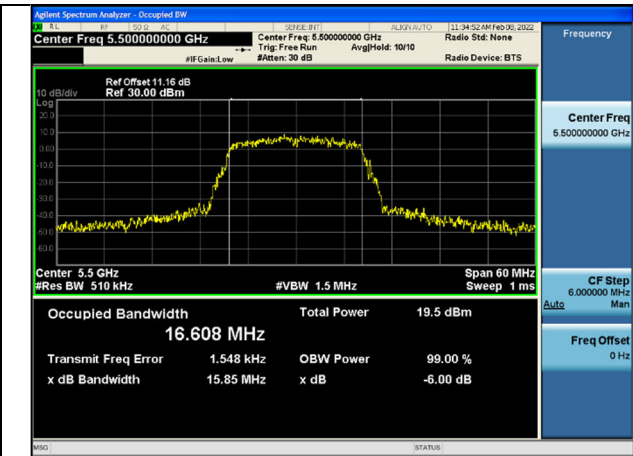
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.624	---	Channel No.640
		5530MHz	---	5610MHz
802.11ac VHT80	Chain0	75.724	---	75.934
802.11ac VHT80	Chain1	75.727	---	76.036

Test Mode: 802.11a

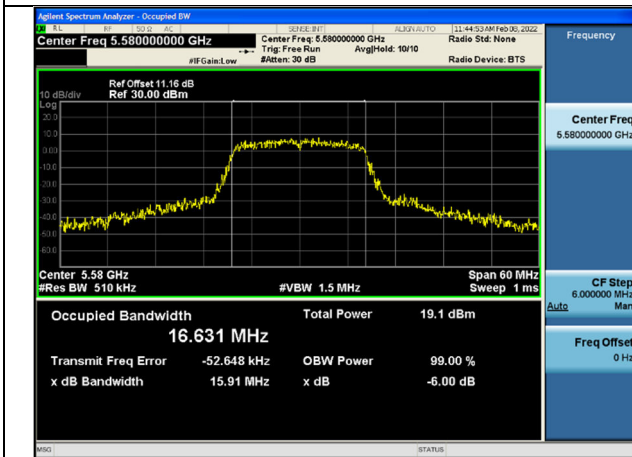




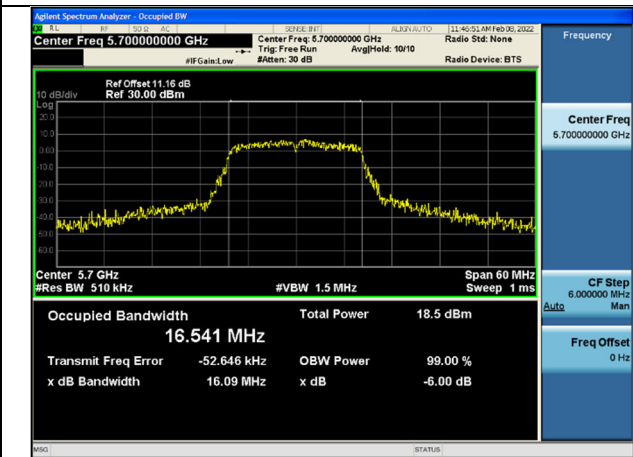
Test Mode:802.11a 5700MHz Chain0



Test Mode:802.11a 5500MHz Chain1

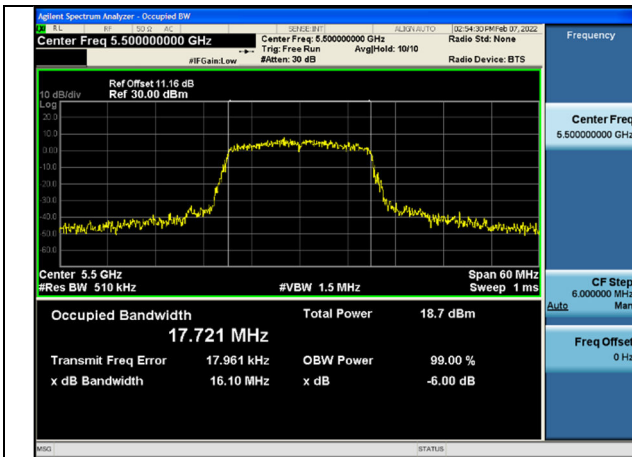


Test Mode:802.11a 5580MHz Chain1

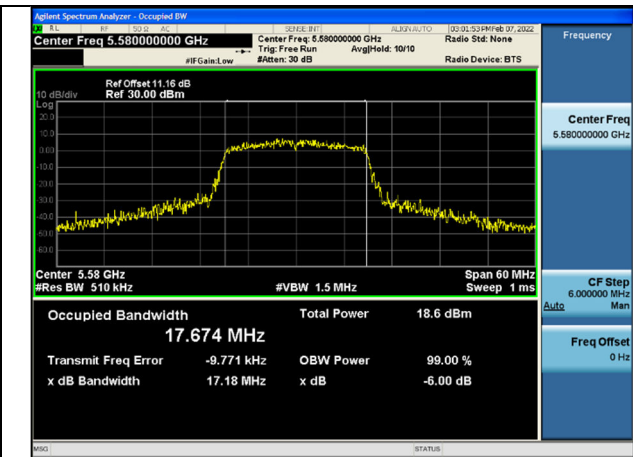


Test Mode:802.11a 5700MHz Chain1

Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5500MHz Chain0



Test Mode:802.11n HT20 5580MHz Chain0