

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5500	99.19%	0	Fig.1
802.11a	5500	99.13%	0	Fig.2
802.11n HT20	5500	99.09%	0	Fig.3
802.11n HT20	5500	94.02%	0.27	Fig.4
802.11n HT40	5510	98.18%	0	Fig.5
802.11n HT40	5510	98.18%	0	Fig.6

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

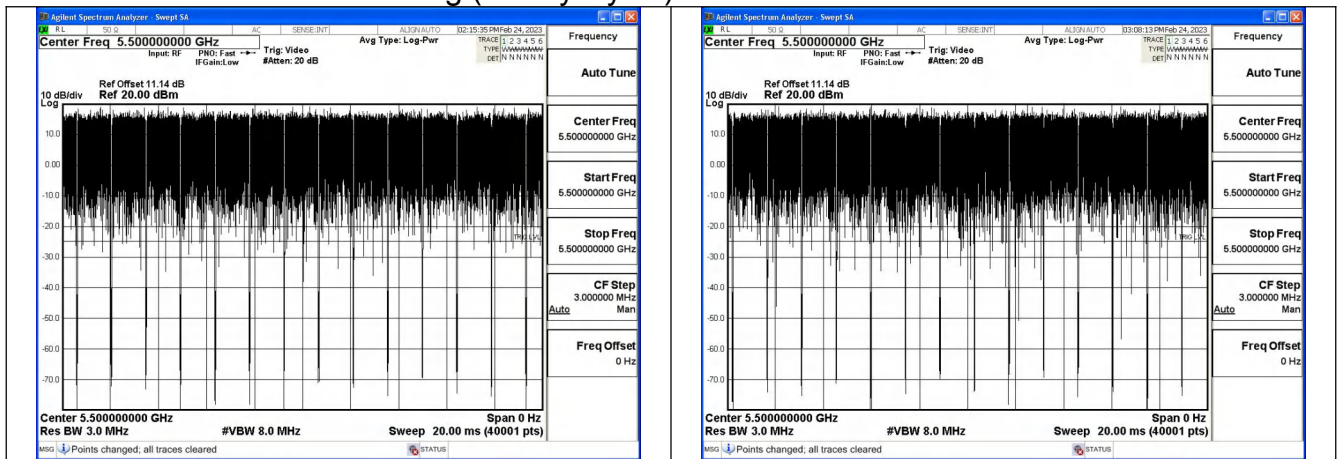


Fig.1

Fig.2

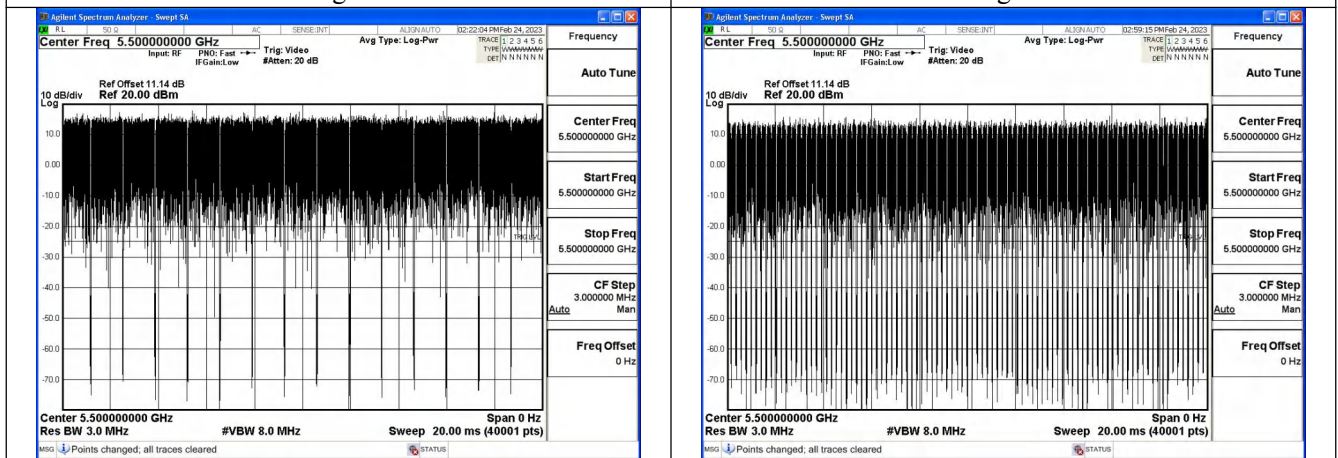


Fig.3

Fig.4

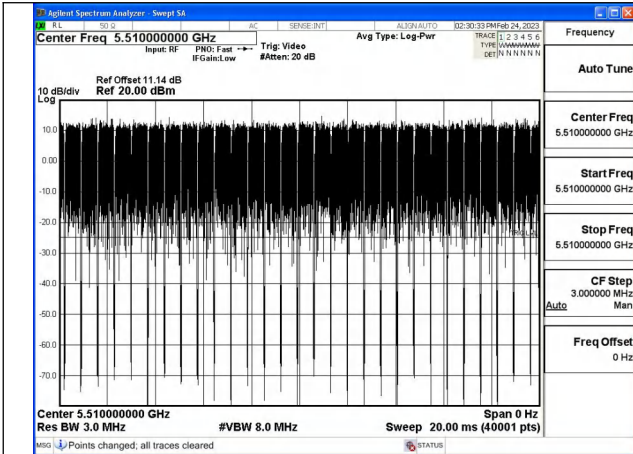


Fig.5

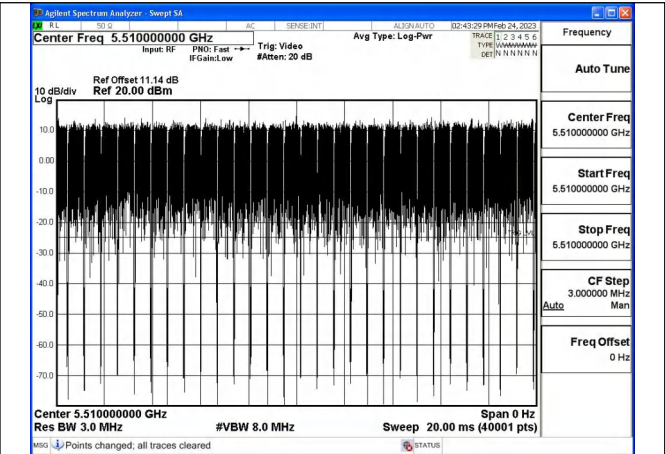


Fig.6

Output Power

Mode	Tones/ RUIndex	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5500	Chain0	14.81	18.88
802.11a	NA	5500	Chain1	14.61	17.11
802.11a	NA	5580	Chain0	14.38	18.45
802.11a	NA	5580	Chain1	15.61	18.11
802.11a	NA	5700	Chain0	14.70	18.77
802.11a	NA	5700	Chain1	15.93	18.43
802.11n HT20	NA	5500	Chain0	10.13	14.20
802.11n HT20	NA	5500	Chain1	12.75	15.25
802.11n HT20	NA	5500	MIMO	14.64	18.00
802.11n HT20	NA	5580	Chain0	11.18	15.25
802.11n HT20	NA	5580	Chain1	12.52	15.02
802.11n HT20	NA	5580	MIMO	14.91	18.27
802.11n HT20	NA	5700	Chain0	11.28	15.35
802.11n HT20	NA	5700	Chain1	13.72	16.22
802.11n HT20	NA	5700	MIMO	15.68	19.04
802.11n HT40	NA	5510	Chain0	9.87	13.94
802.11n HT40	NA	5510	Chain1	12.78	15.28
802.11n HT40	NA	5510	MIMO	14.57	17.93
802.11n HT40	NA	5590	Chain0	9.64	13.71
802.11n HT40	NA	5590	Chain1	11.78	14.28
802.11n HT40	NA	5590	MIMO	13.85	17.21
802.11n HT40	NA	5670	Chain0	9.99	14.06
802.11n HT40	NA	5670	Chain1	13.24	15.74
802.11n HT40	NA	5670	MIMO	14.92	18.28

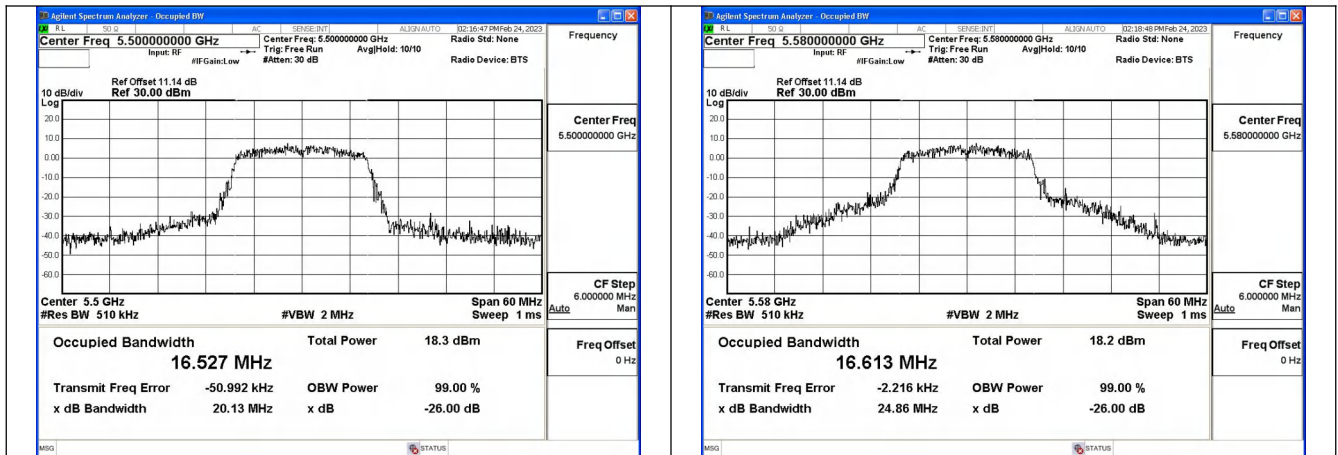
Emission Bandwidth

Offset 11.14dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.618	Channel No.634	Channel No.658
		5500MHz	5580MHz	5700MHz
802.11a	Chain0	20.13	24.86	23.62
802.11a	Chain1	19.97	20.63	25.71
802.11n HT20	Chain0	19.69	19.83	20.04
802.11n HT20	Chain1	19.74	20.18	20.24

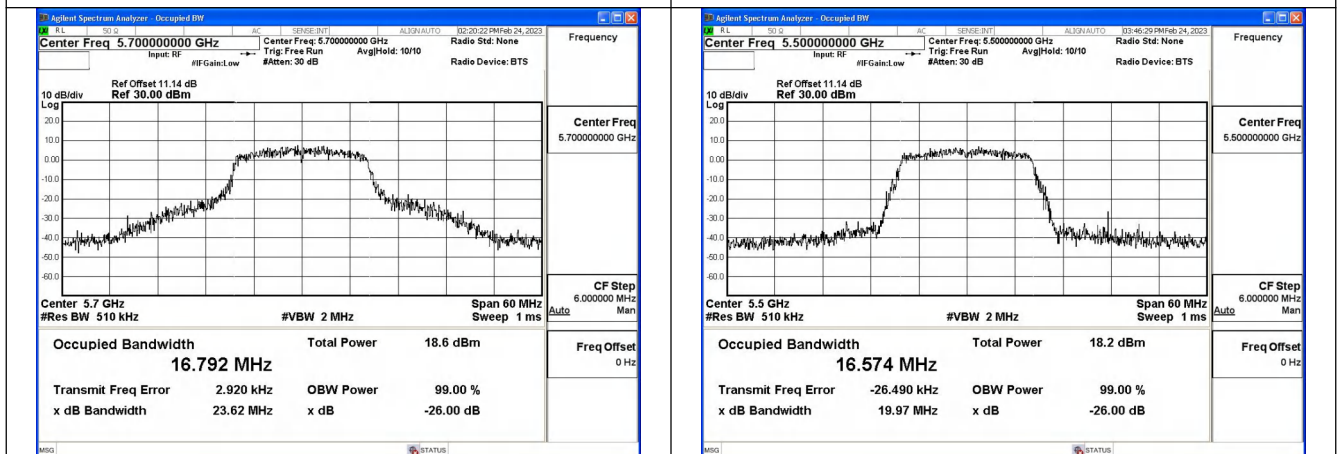
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.620	Channel No.636	Channel No.652
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	40.42	40.05	40.28
802.11n HT40	Chain1	39.11	39.55	40.52

Test Mode: 802.11a



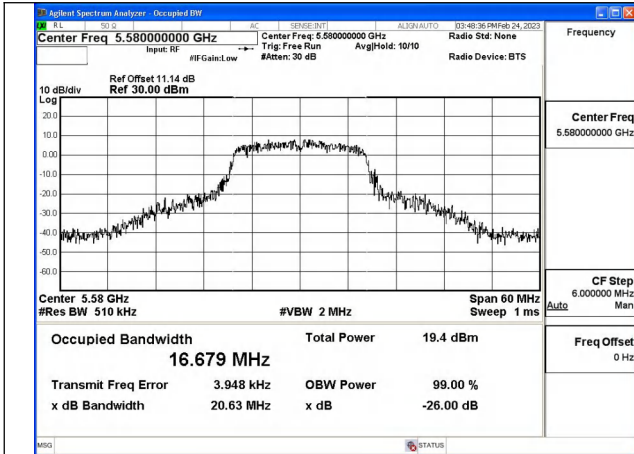
Test Mode:802.11a 5500MHz Chain0

Test Mode:802.11a 5580MHz Chain0

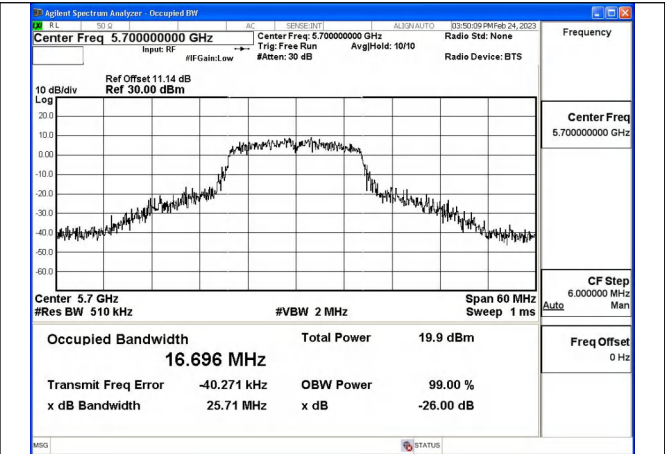


Test Mode:802.11a 5700MHz Chain0

Test Mode:802.11a 5500MHz Chain1

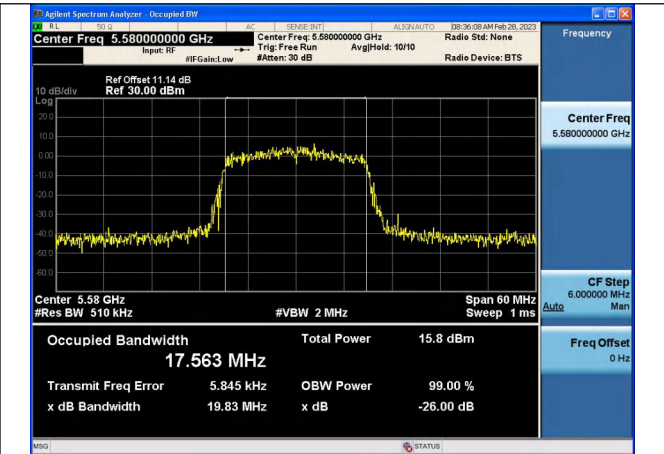
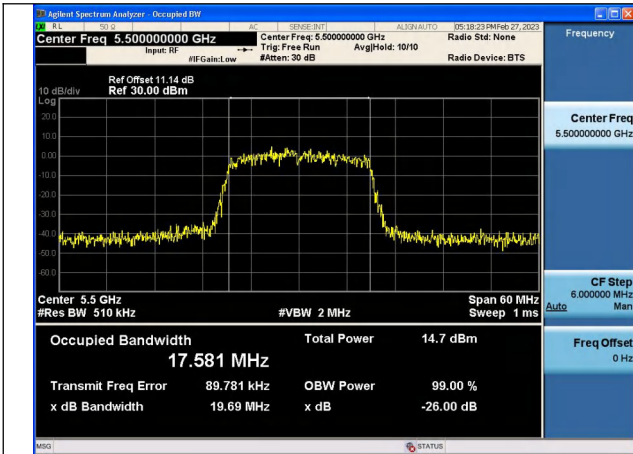


Test Mode:802.11a 5580MHz Chain1



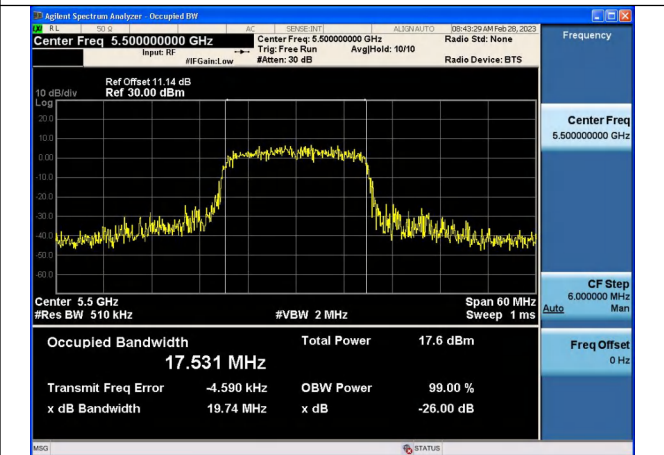
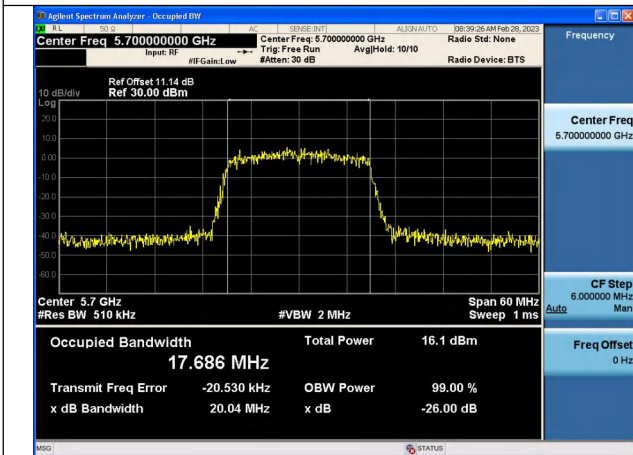
Test Mode:802.11a 5700MHz Chain1

Test Mode: 802.11n HT20



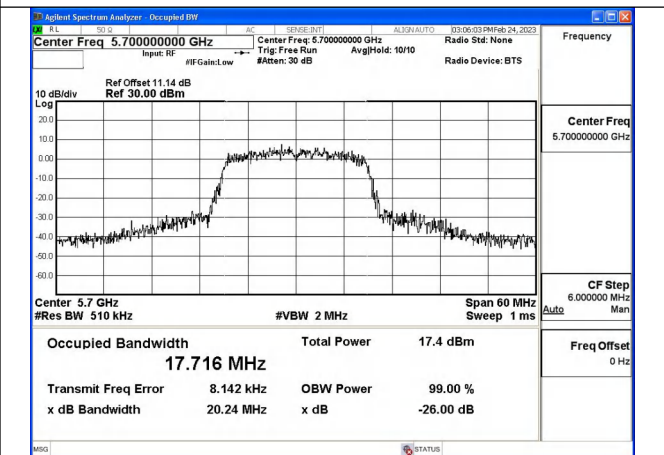
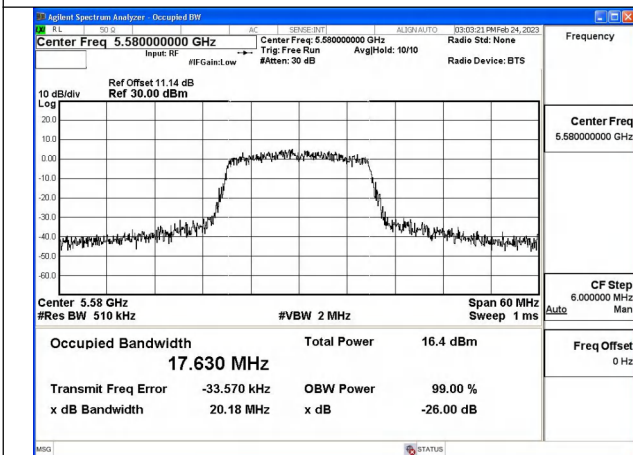
Test Mode:802.11n HT20 5500MHz Chain0

Test Mode:802.11n HT20 5580MHz Chain0



Test Mode:802.11n HT20 5700MHz Chain0

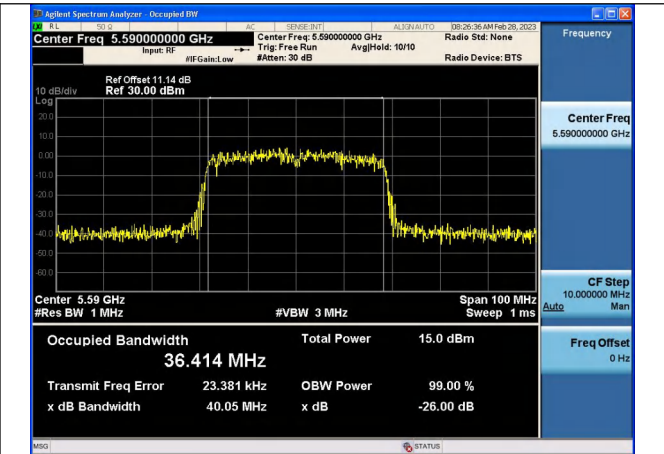
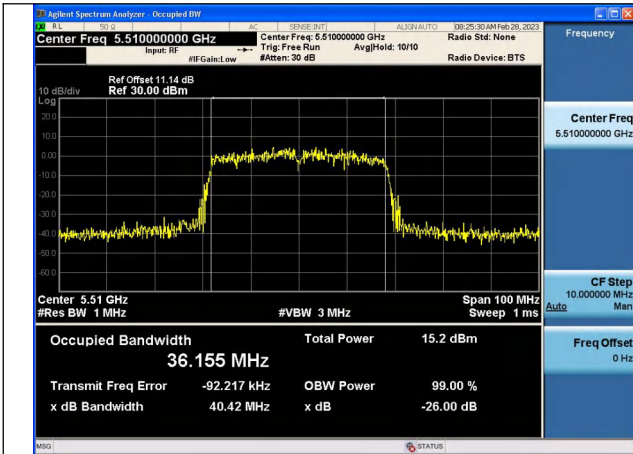
Test Mode:802.11n HT20 5500MHz Chain1



Test Mode:802.11n HT20 5580MHz Chain1

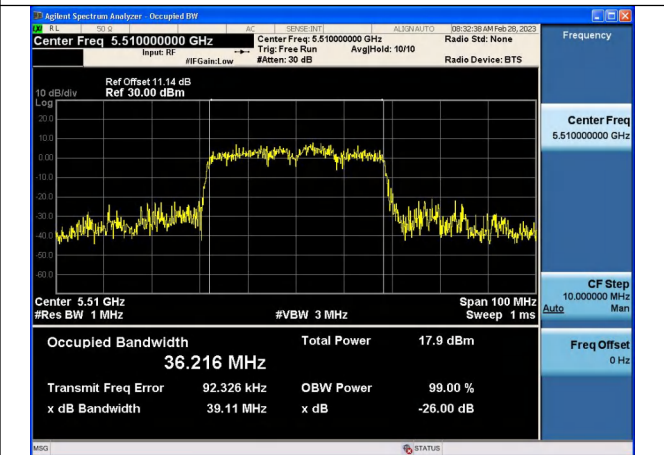
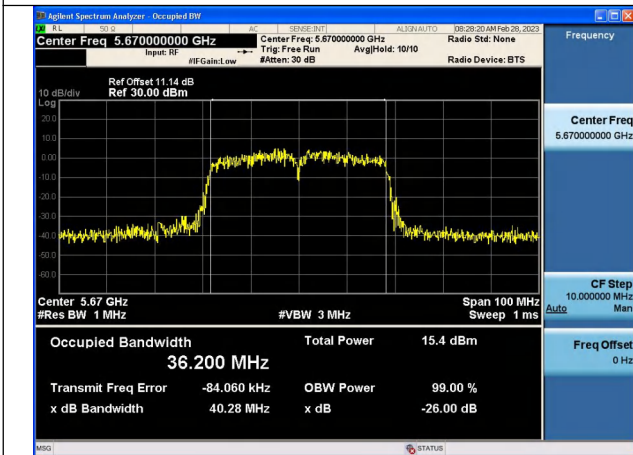
Test Mode:802.11n HT20 5700MHz Chain1

Test Mode: 802.11n HT40



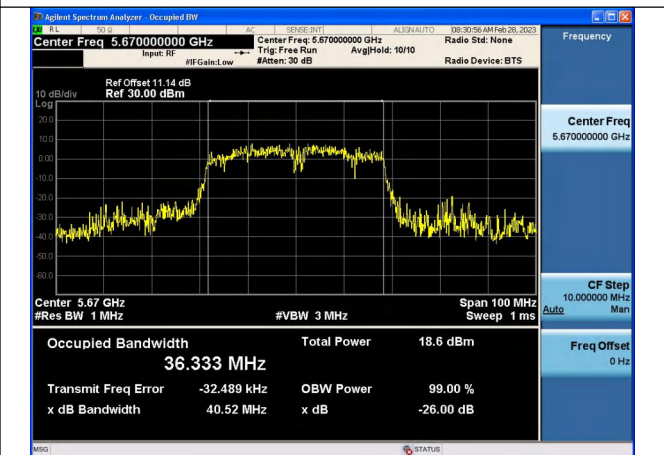
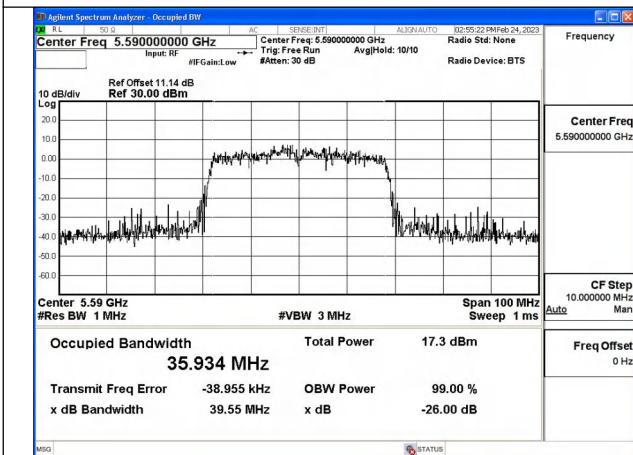
Test Mode:802.11n HT40 5510MHz Chain0

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

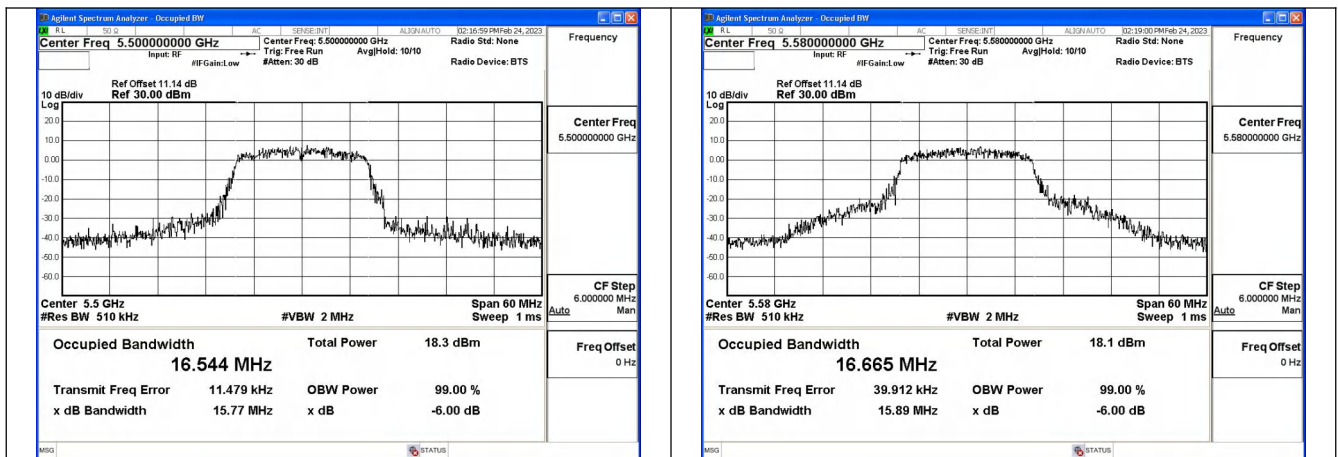
Occupied Bandwidth

Offset 11.14dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.618	Channel No.634	Channel No.658
		5500MHz	5580MHz	5700MHz
802.11a	Chain0	16.544	16.665	16.798
802.11a	Chain1	16.567	16.810	16.865
802.11n HT20	Chain0	17.629	17.605	17.574
802.11n HT20	Chain1	17.703	17.674	17.619

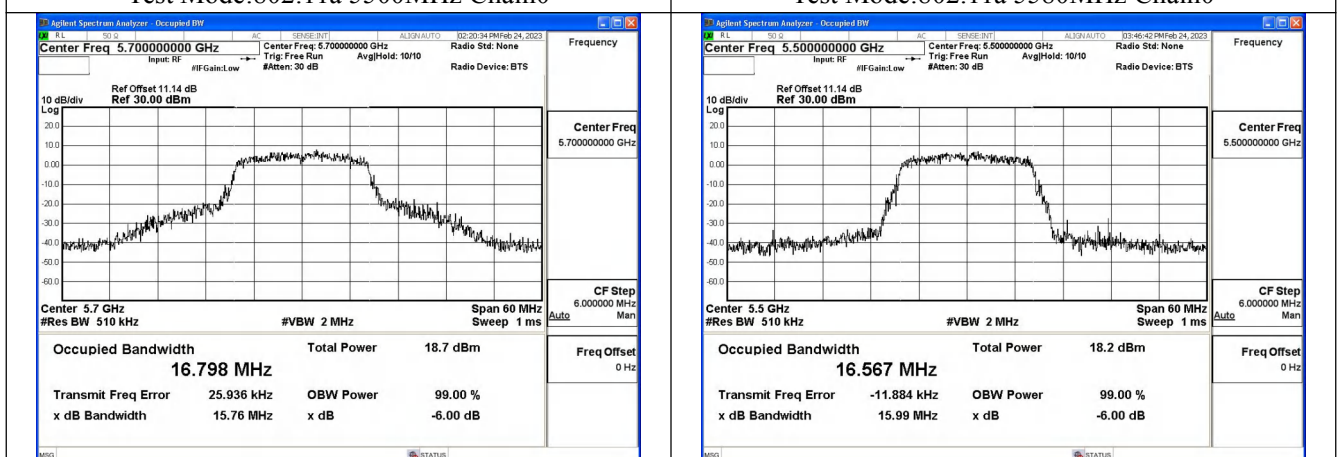
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.620	Channel No.636	Channel No.652
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	36.328	36.024	36.153
802.11n HT40	Chain1	36.157	36.142	36.253

Test Mode: 802.11a



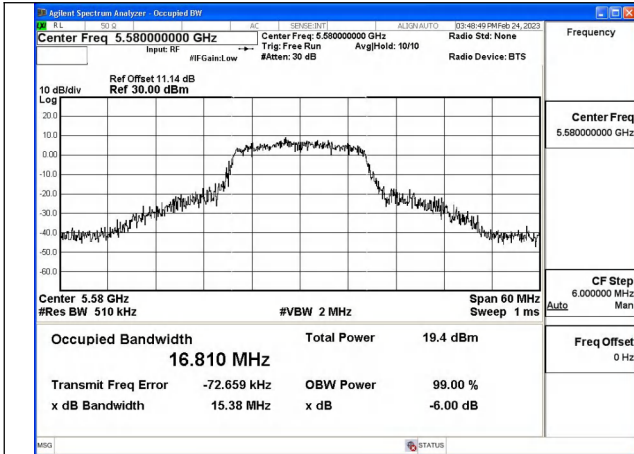
Test Mode:802.11a 5500MHz Chain0

Test Mode:802.11a 5580MHz Chain0

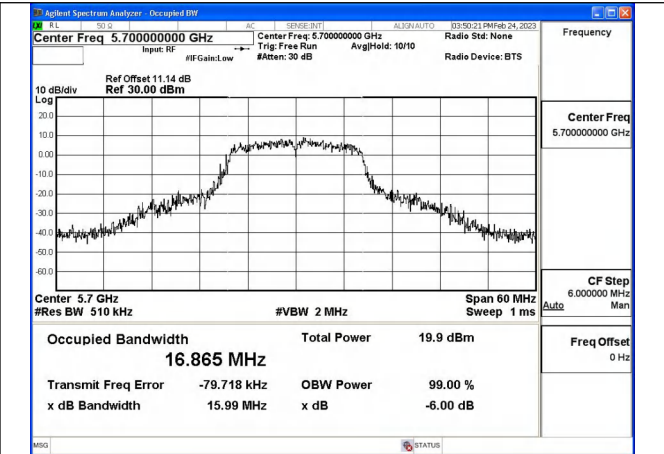


Test Mode:802.11a 5700MHz Chain0

Test Mode:802.11a 5500MHz Chain1

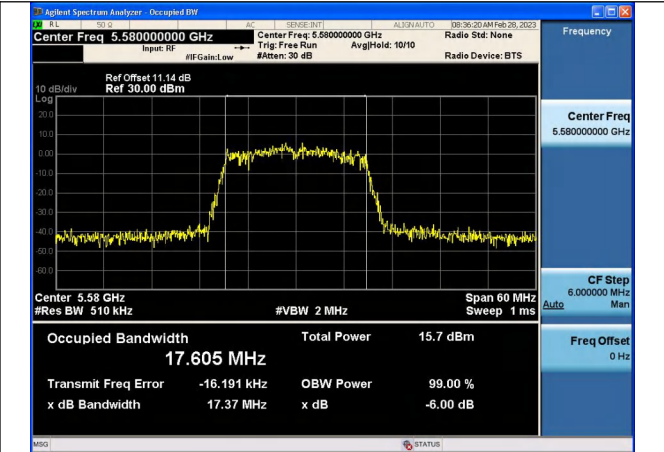
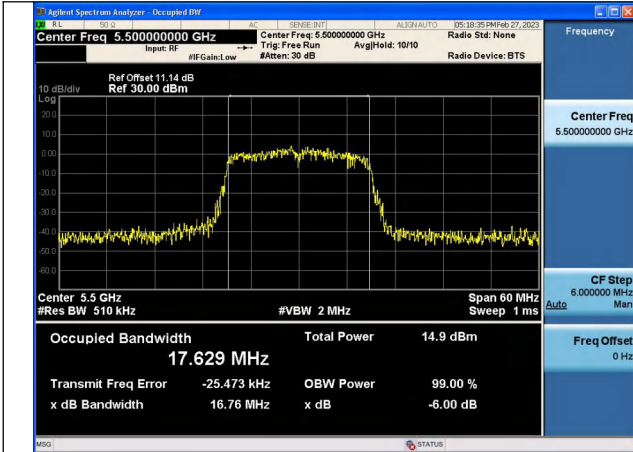


Test Mode:802.11a 5580MHz Chain1

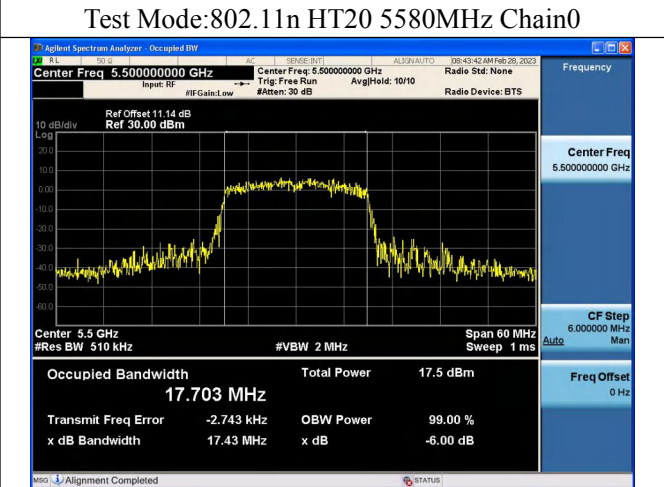
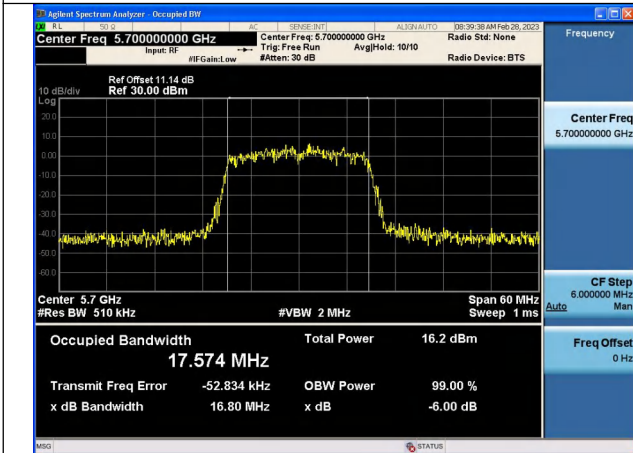


Test Mode:802.11a 5700MHz Chain1

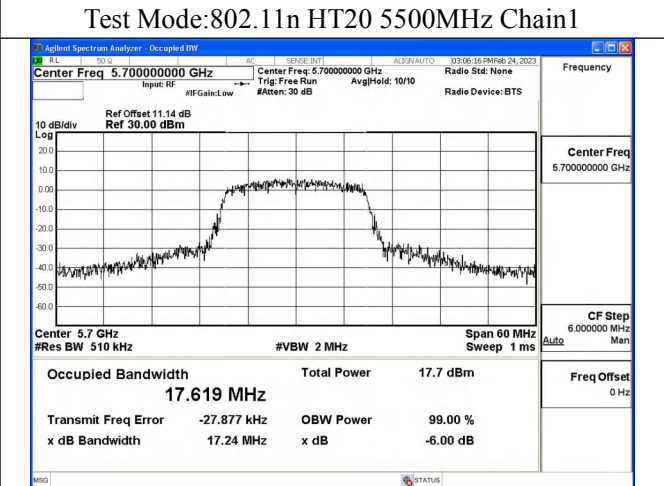
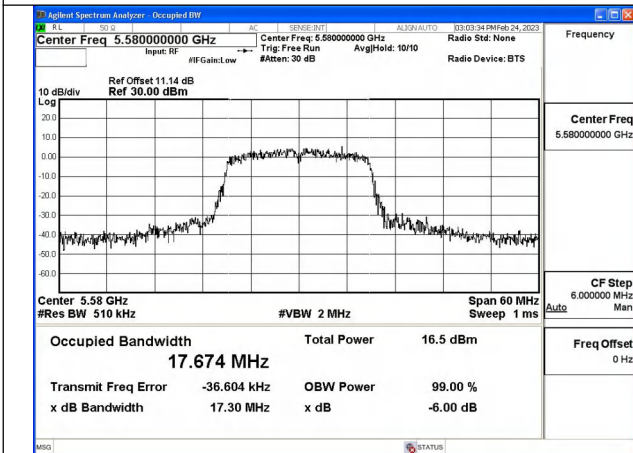
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5500MHz Chain0



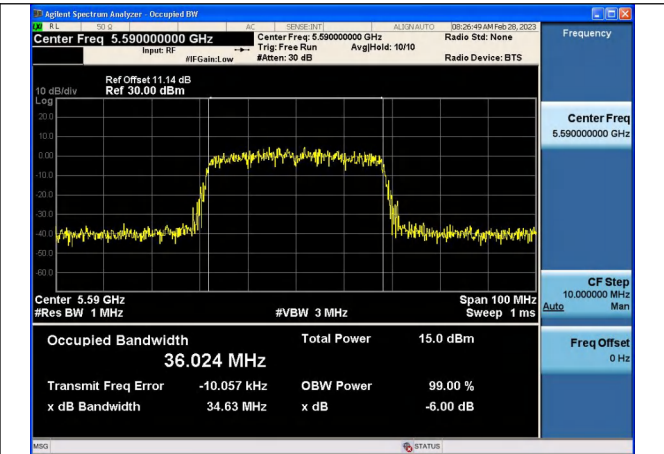
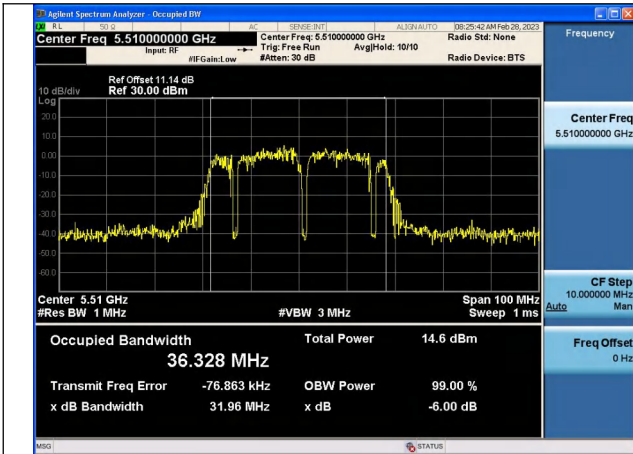
Test Mode:802.11n HT20 5700MHz Chain0



Test Mode:802.11n HT20 5580MHz Chain1

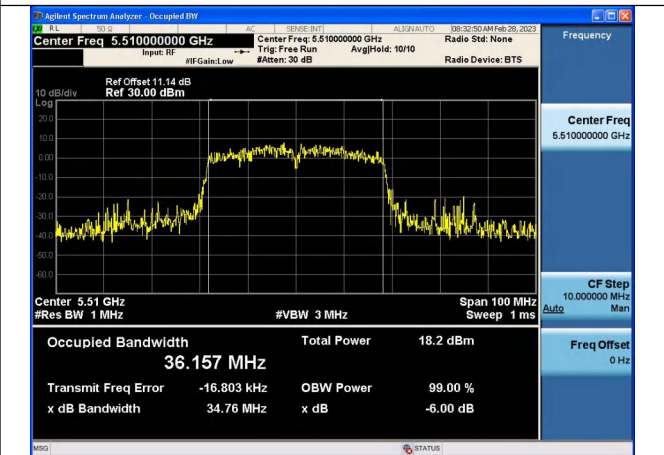
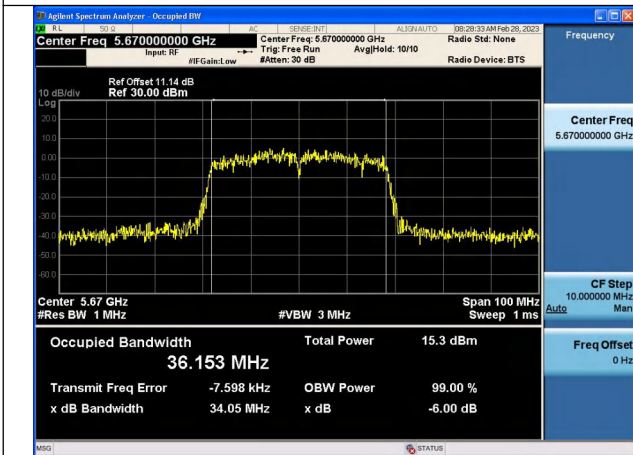
Test Mode:802.11n HT20 5700MHz Chain1

Test Mode: 802.11n HT40



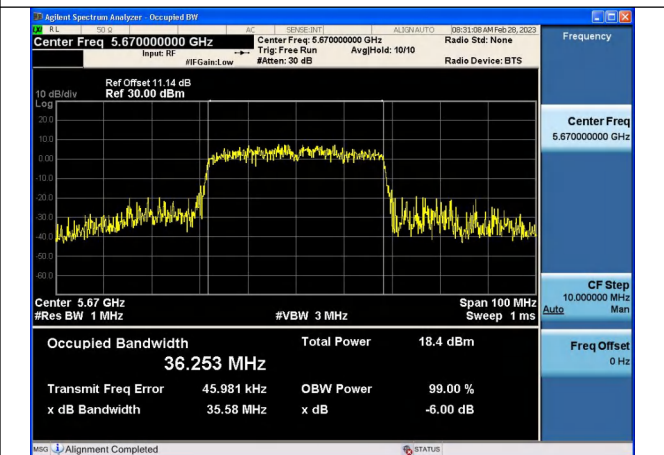
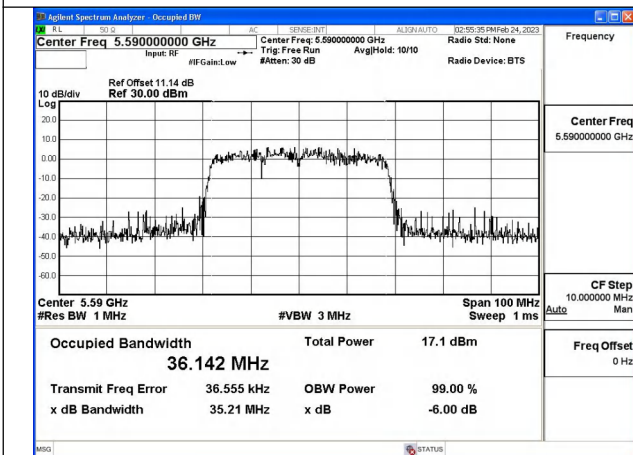
Test Mode:802.11n HT40 5510MHz Chain0

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

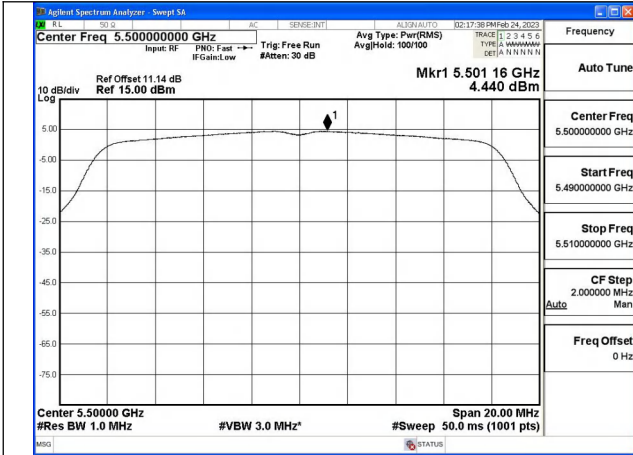
Transmitter Power Spectral Density

Offset 11.14dB = Attenuator + Temporary antenna connector loss + Cable loss

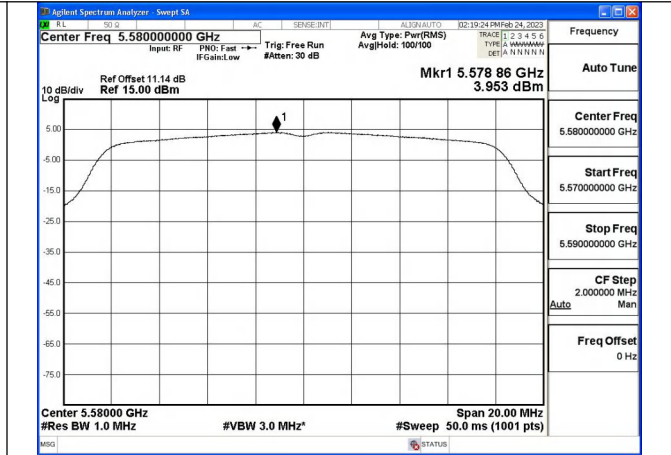
Test Mode	Antenna	Tones	5500MHz		5580MHz		5700MHz	
			Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11a	Chain0	NA	0	4.440	---	3.953	---	4.235
802.11a	Chain1	NA	0	4.092	---	5.209	---	5.444
802.11n HT20	Chain0	NA	0	3.010	---	2.819	---	3.039
802.11n HT20	Chain1	NA	0.27	0.211	---	2.220	---	3.295
802.11n HT20	MIMO	NA	0.27	4.842	---	5.540	---	6.179

Test Mode	Antenna	Tones	5510MHz		5590MHz		5670MHz	
			Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11n HT40	Chain0	NA	0	0.190	---	0.139	---	0.092
802.11n HT40	Chain1	NA	0	-0.338	---	-1.767	---	-0.479
802.11n HT40	MIMO	NA	0	2.944	---	2.300	---	2.826

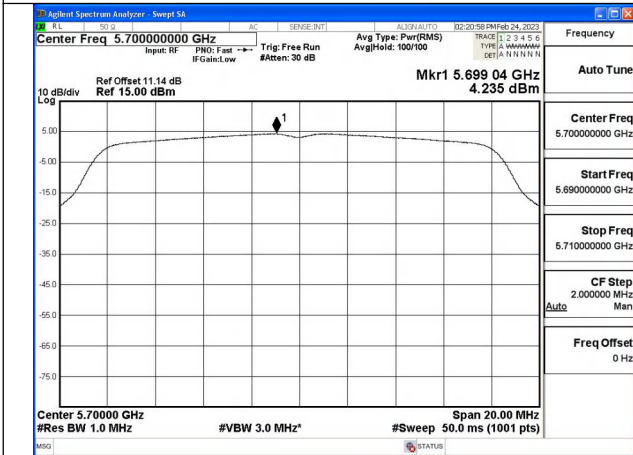
Test Mode: 802.11a



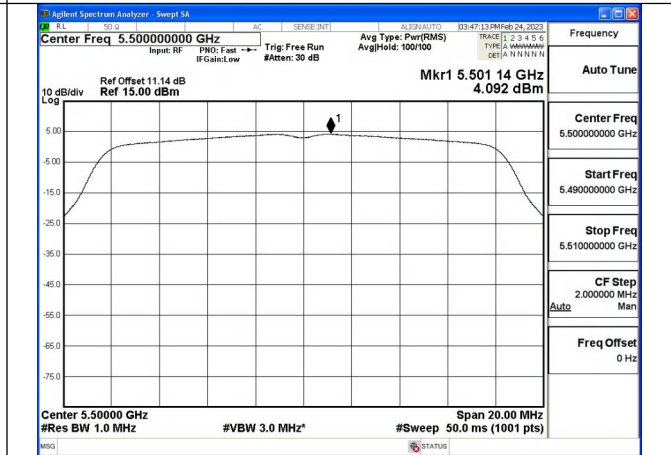
Test Mode:802.11a 5500MHz Chain0



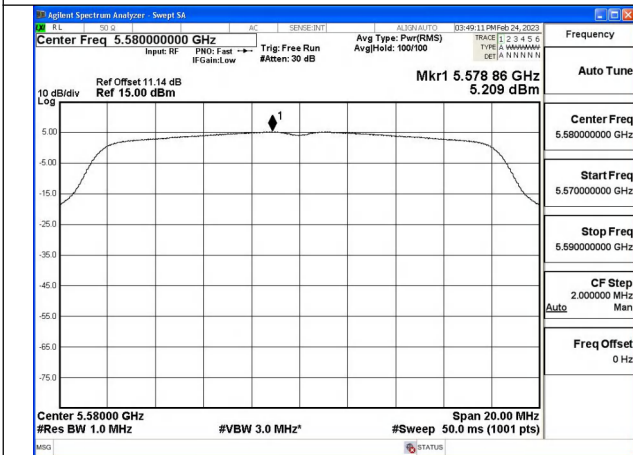
Test Mode:802.11a 5580MHz Chain0



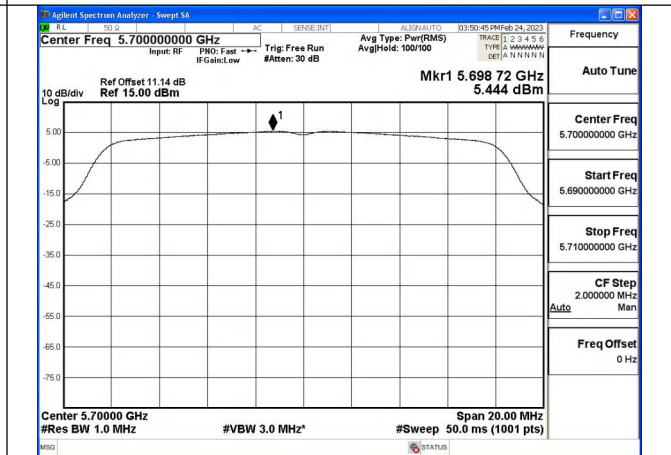
Test Mode:802.11a 5700MHz Chain0



Test Mode:802.11a 5500MHz Chain1

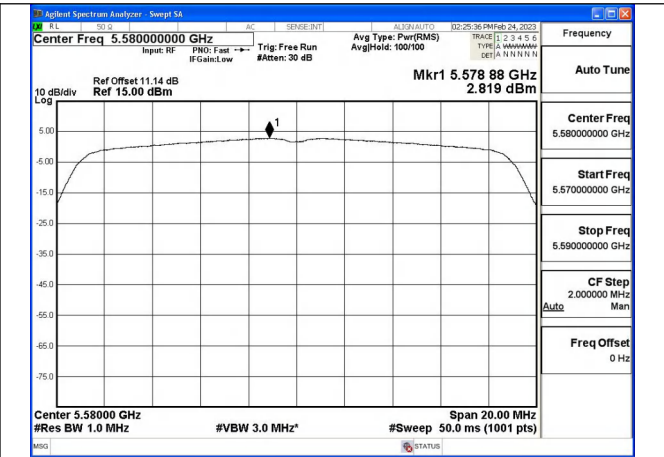
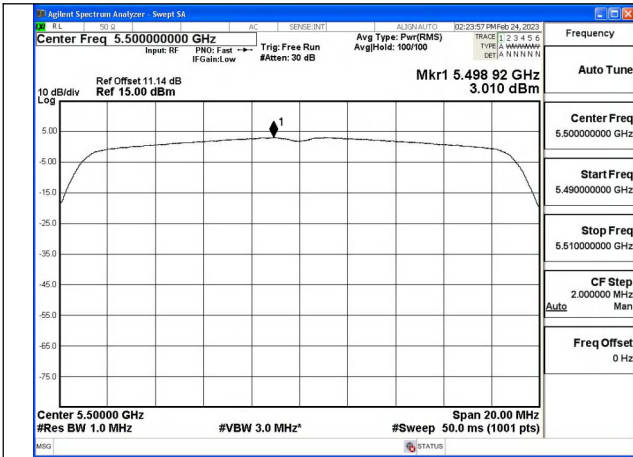


Test Mode:802.11a 5580MHz Chain1



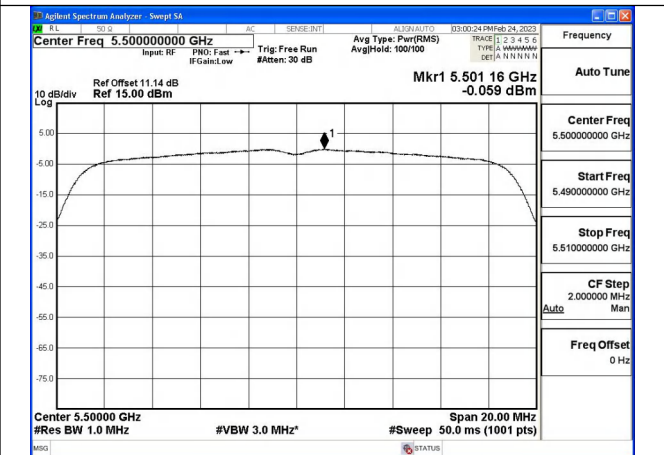
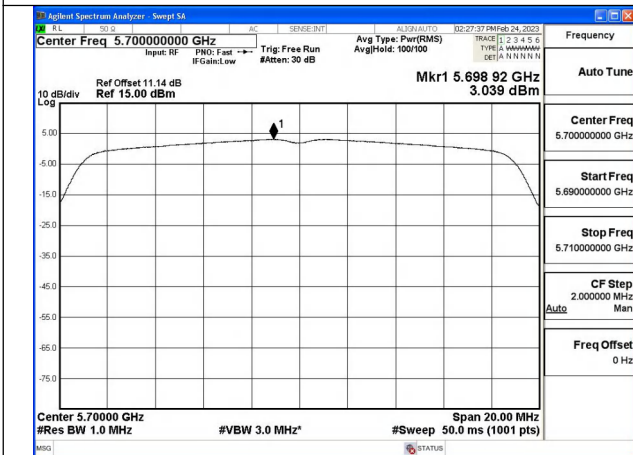
Test Mode:802.11a 5700MHz Chain1

Test Mode: 802.11n HT20



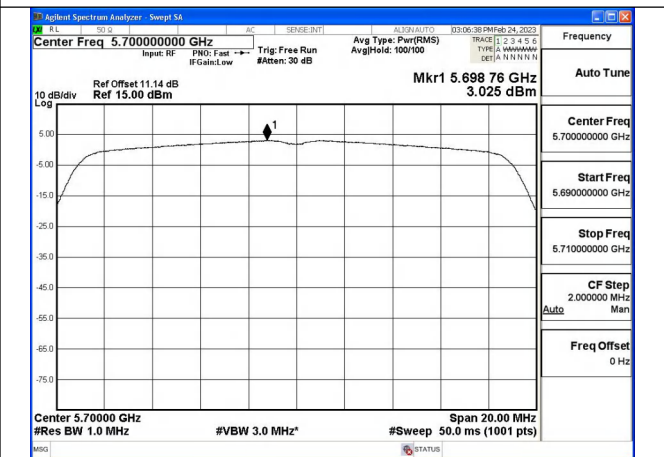
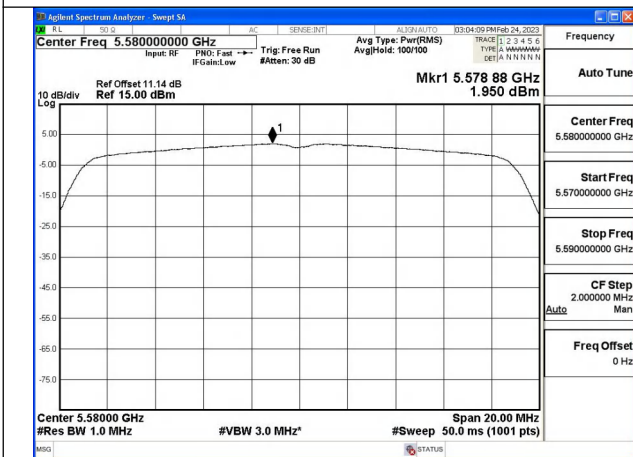
Test Mode:802.11n HT20 5500MHz Chain0

Test Mode:802.11n HT20 5580MHz Chain0



Test Mode:802.11n HT20 5700MHz Chain0

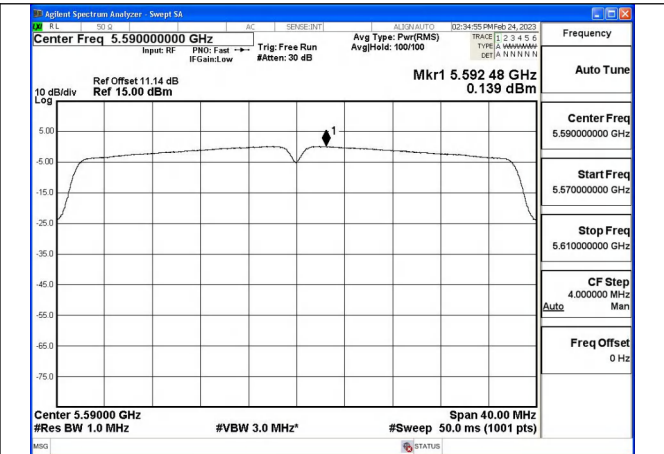
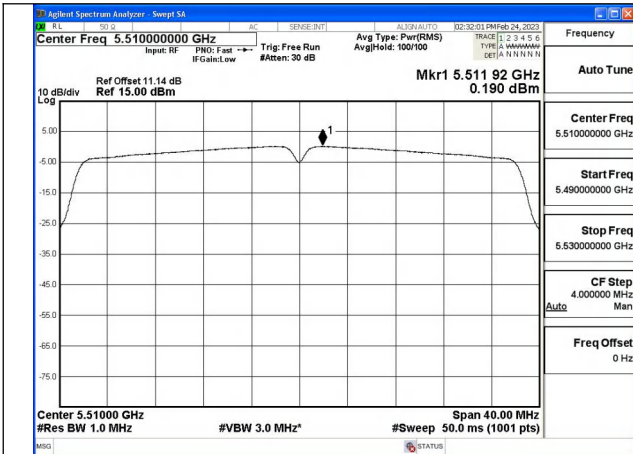
Test Mode:802.11n HT20 5500MHz Chain1



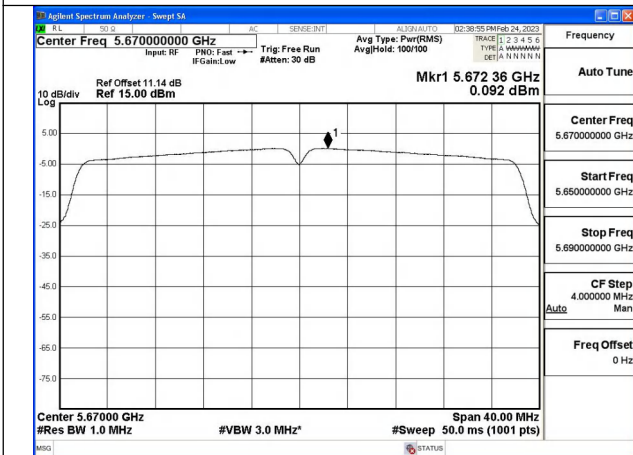
Test Mode:802.11n HT20 5580MHz Chain1

Test Mode:802.11n HT20 5700MHz Chain1

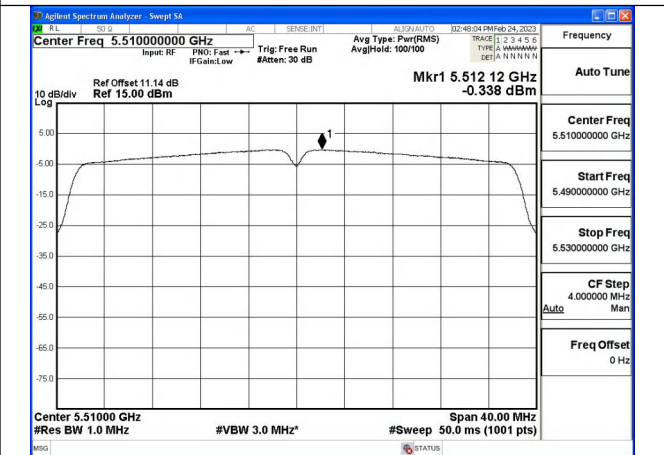
Test Mode: 802.11n HT40



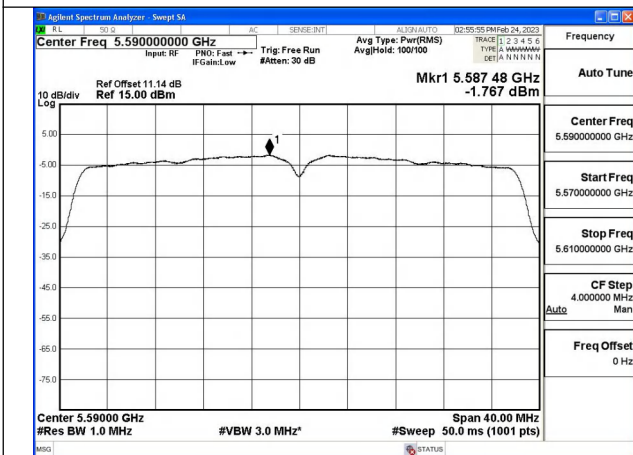
Test Mode: 802.11n HT40 5510MHz Chain0



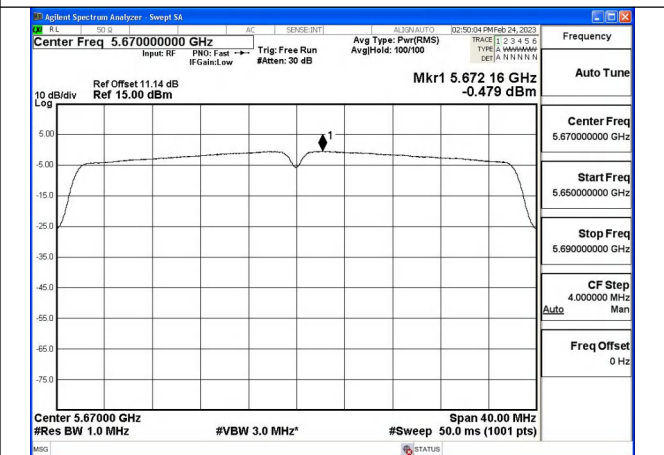
Test Mode: 802.11n HT40 5590MHz Chain0



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