

## **APPENDIX A – TEST DATA OF CONDUCTED EMISSION**

### **Duty Cycle**

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5500	98.68%	0
802.11n HT20	5500	98.54%	0
802.11ac VHT20	5500	98.66%	0
802.11n HT40	5510	97.22%	0.12
802.11ac VHT40	5510	97.24%	0.12
802.11ac VHT80	5530	94.77%	0.23

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	5500	Chain0	13.39	11.89
802.11a	NA	5580	Chain0	13.98	12.48
802.11a	NA	5700	Chain0	14.39	12.89
802.11n HT20	NA	5500	Chain0	13.23	11.73
802.11n HT20	NA	5580	Chain0	13.32	11.82
802.11n HT20	NA	5700	Chain0	14.23	12.73
802.11ac VHT20	NA	5500	Chain0	13.22	11.72
802.11ac VHT20	NA	5580	Chain0	13.85	12.35
802.11ac VHT20	NA	5700	Chain0	14.20	12.70
802.11n HT40	NA	5510	Chain0	13.13	11.63
802.11n HT40	NA	5590	Chain0	13.78	12.28
802.11n HT40	NA	5670	Chain0	14.07	12.57
802.11ac VHT40	NA	5510	Chain0	13.09	11.59
802.11ac VHT40	NA	5590	Chain0	13.78	12.28
802.11ac VHT40	NA	5670	Chain0	14.05	12.55
802.11ac VHT80	NA	5530	Chain0	13.14	11.64
802.11ac VHT80	NA	5610	Chain0	13.68	12.18

### Emission Bandwidth

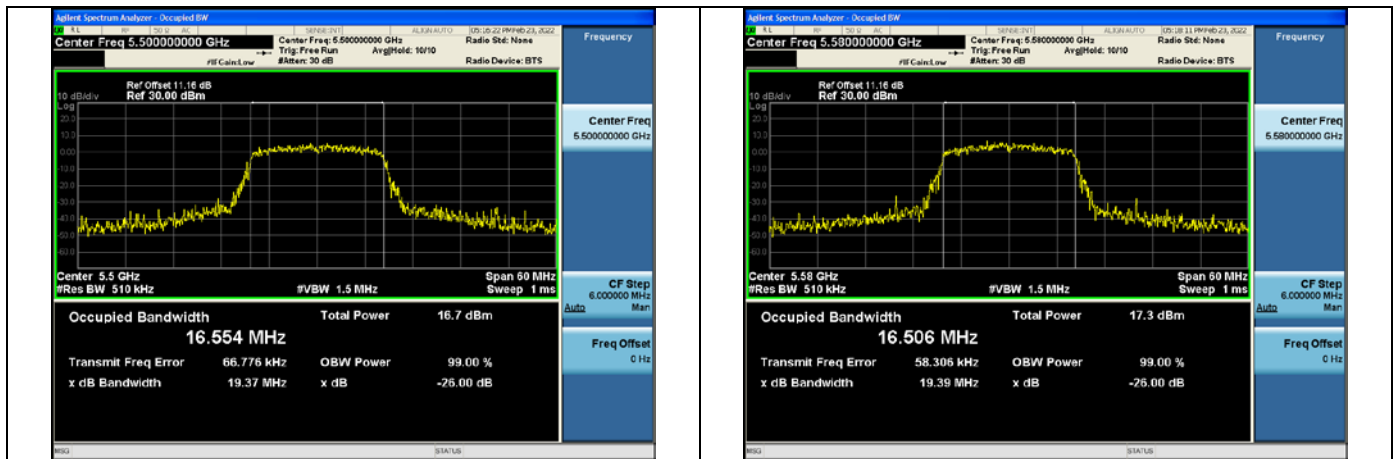
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.618 5500MHz	Channel No.634 5580MHz	Channel No.658 5700MHz
802.11a	Chain0	19.37	19.39	19.87
802.11n HT20	Chain0	22.66	19.79	21.80
802.11ac VHT20	Chain0	20.33	20.10	20.15

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.620 5510MHz	Channel No.636 5590MHz	Channel No.652 5670MHz
802.11n HT40	Chain0	40.85	40.66	40.37
802.11ac VHT40	Chain0	40.27	40.01	40.12

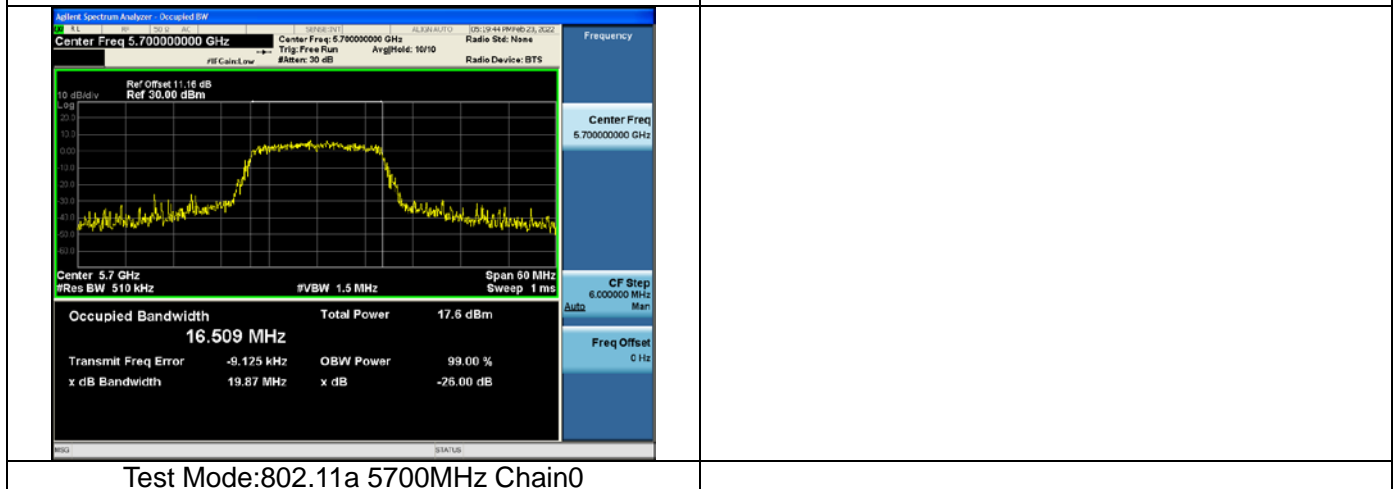
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.624 5530MHz	---	Channel No.640 5610MHz
802.11ac VHT80	Chain0	80.81	---	81.03

Test Mode: 802.11a



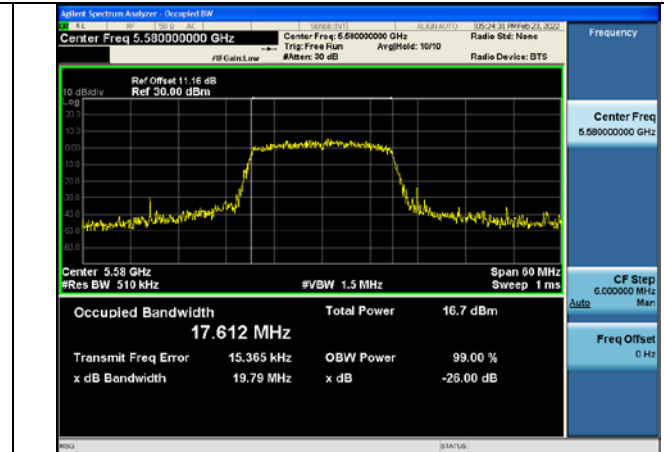
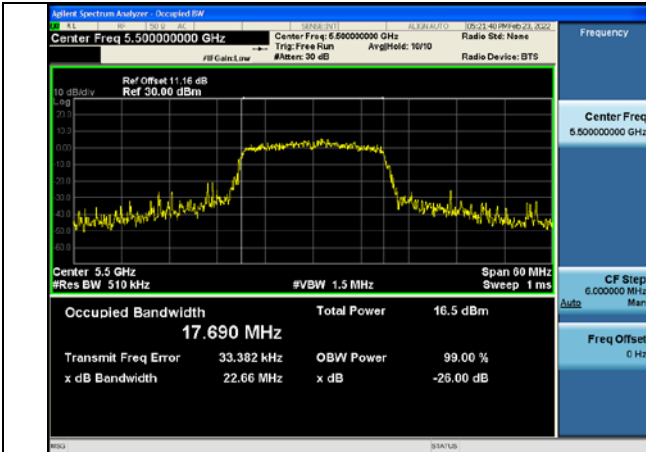
Test Mode:802.11a 5500MHz Chain0

Test Mode:802.11a 5580MHz Chain0



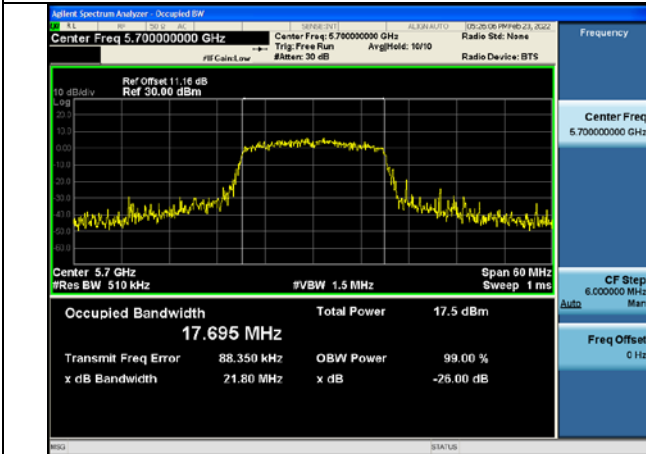
Test Mode:802.11a 5700MHz Chain0

Test Mode: 802.11n HT20



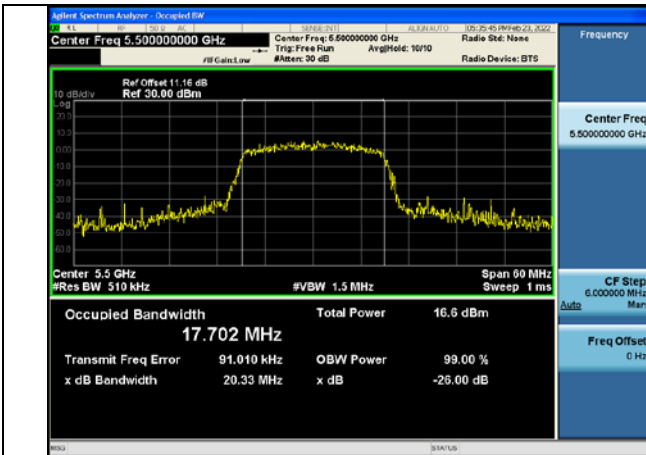
Test Mode:802.11n HT20 5500MHz Chain0

Test Mode:802.11n HT20 5580MHz Chain0

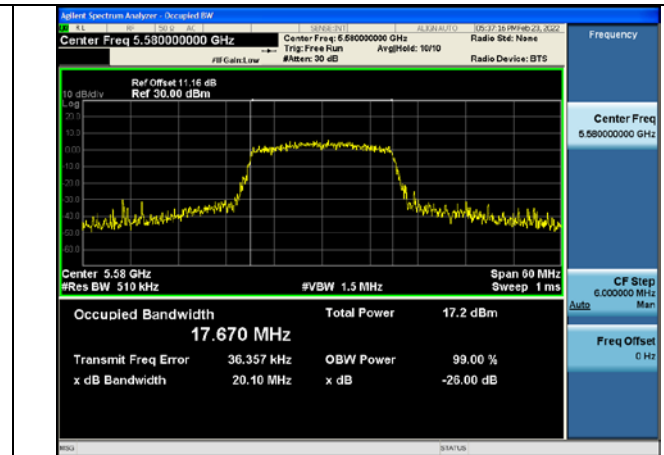


Test Mode:802.11n HT20 5700MHz Chain0

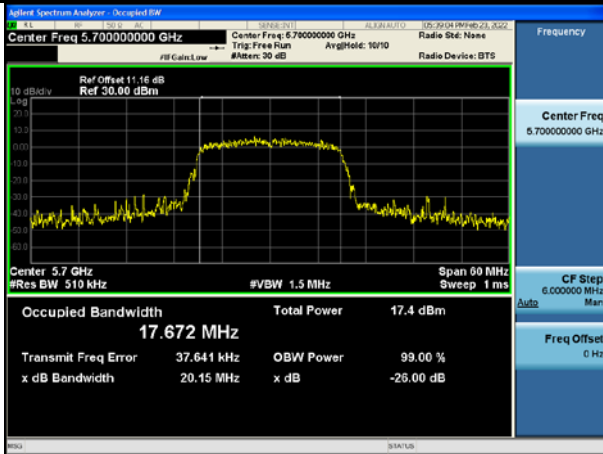
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5500MHz Chain0

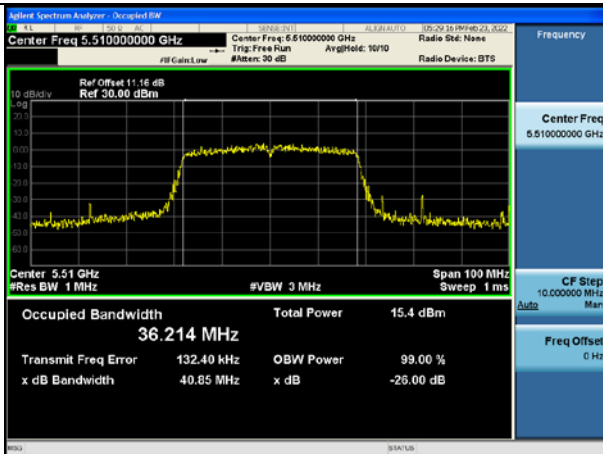


Test Mode:802.11ac VHT20 5580MHz Chain0

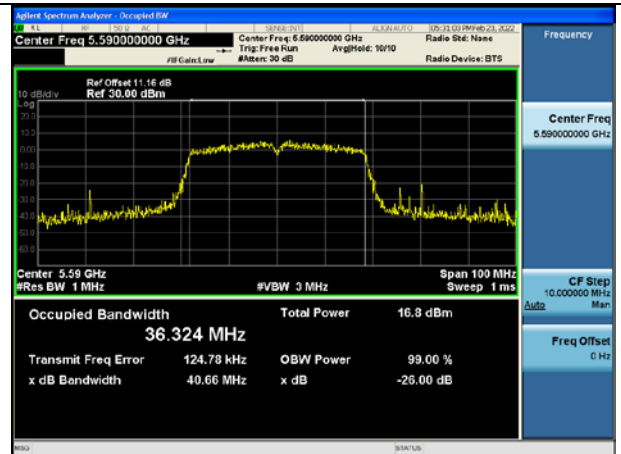


Test Mode:802.11ac VHT20 5700MHz Chain0

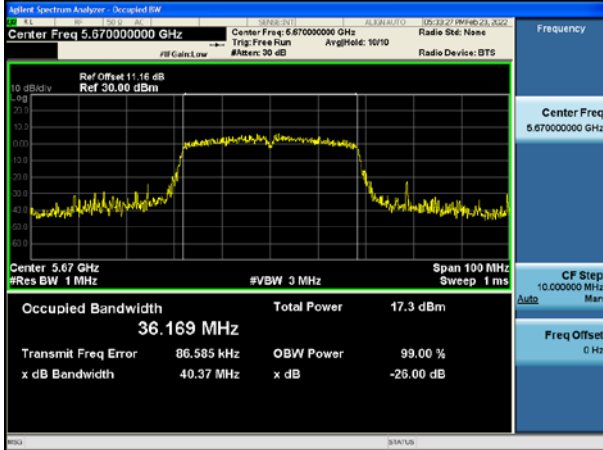
Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5510MHz Chain0

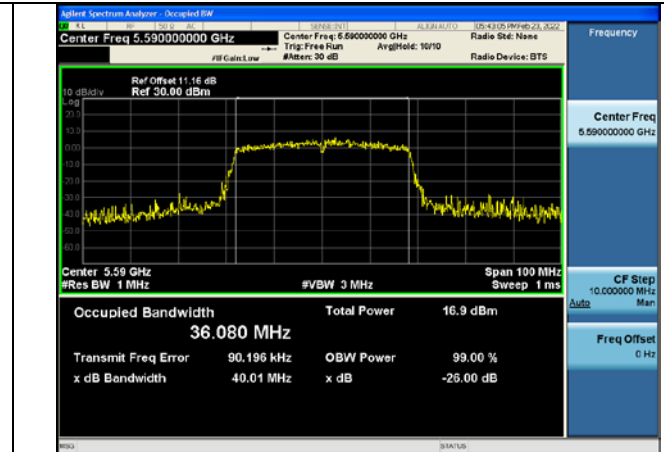
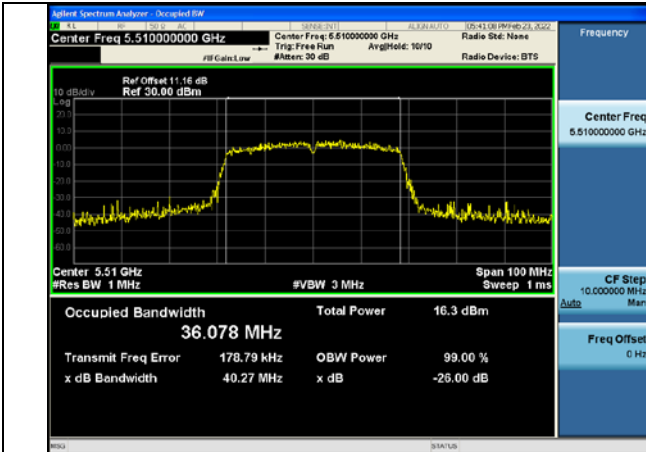


Test Mode:802.11n HT40 5590MHz Chain0



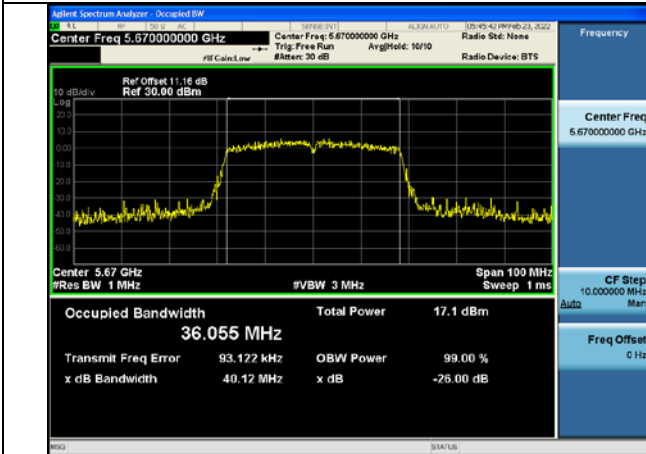
Test Mode:802.11n HT40 5670MHz Chain0

Test Mode: 802.11ac VHT40



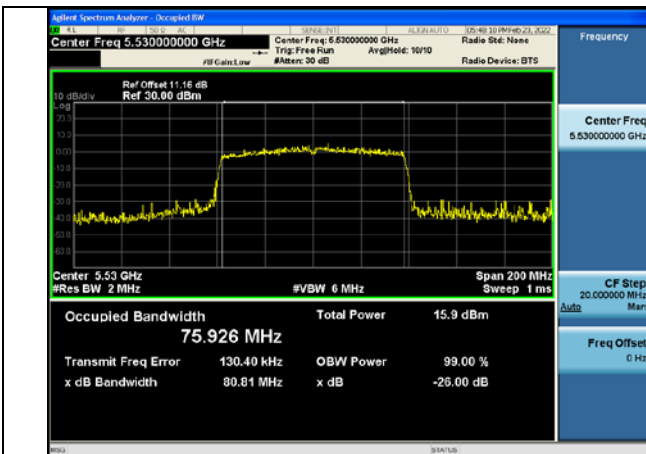
Test Mode:802.11ac VHT40 5510MHz Chain0

Test Mode:802.11ac VHT40 5590MHz Chain0

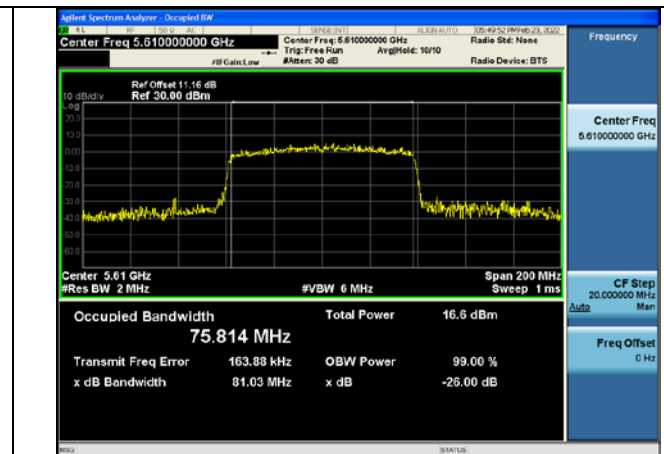


Test Mode:802.11ac VHT40 5670MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5530MHz Chain0



Test Mode:802.11ac VHT80 5610MHz Chain0

### Occupied Bandwidth

Offset 11.16dB = 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	16.496	16.568	16.472
802.11n HT20	Chain0	17.716	17.626	17.702
802.11ac VHT20	Chain0	17.615	17.702	17.683

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.620	Channel No.636	Channel No.652
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	36.043	36.037	36.127
802.11ac VHT40	Chain0	36.142	36.018	36.135

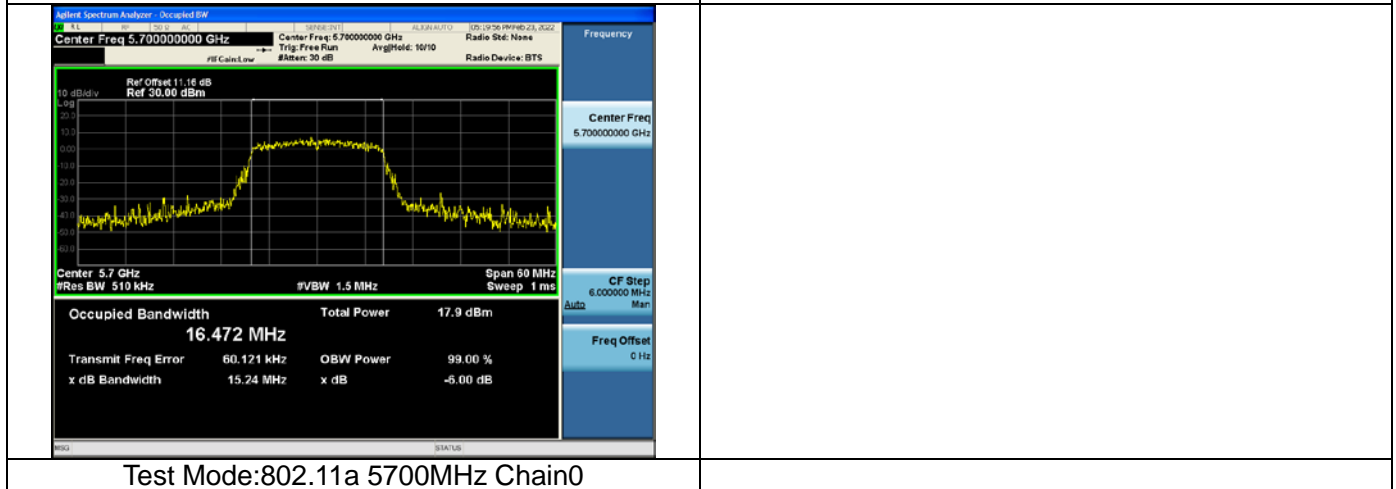
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.624	---	Channel No.640
		5530MHz	---	5610MHz
802.11ac VHT80	Chain0	75.731	---	75.713

Test Mode: 802.11a



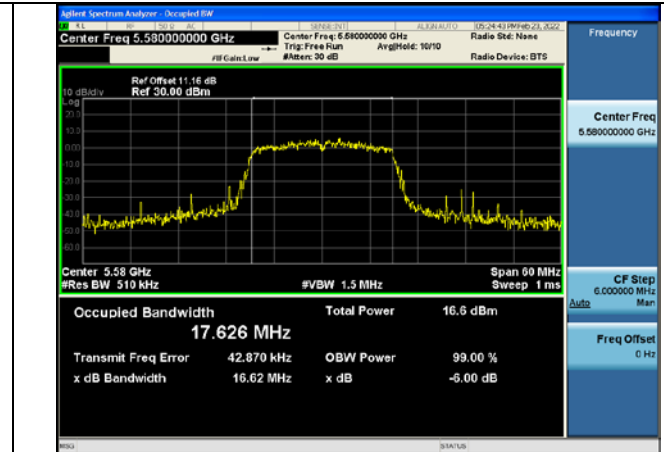
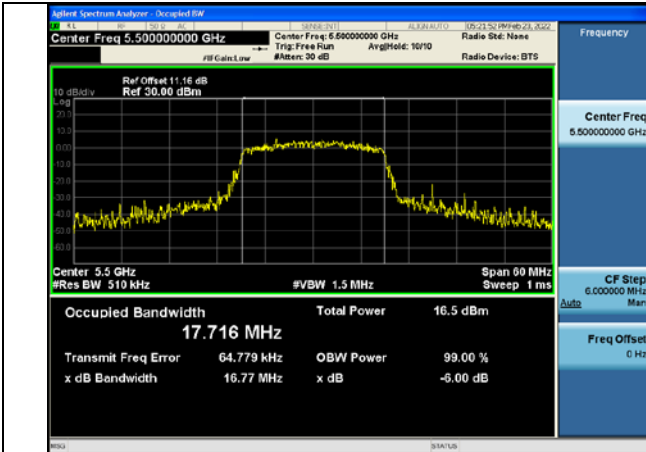
Test Mode:802.11a 5500MHz Chain0

Test Mode:802.11a 5580MHz Chain0



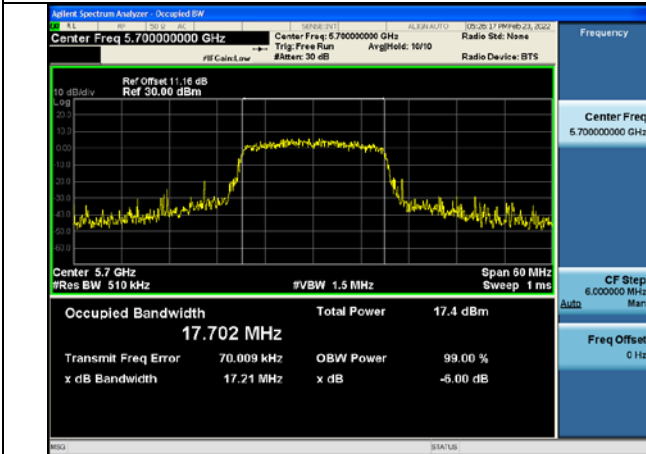
Test Mode:802.11a 5700MHz Chain0

Test Mode: 802.11n HT20



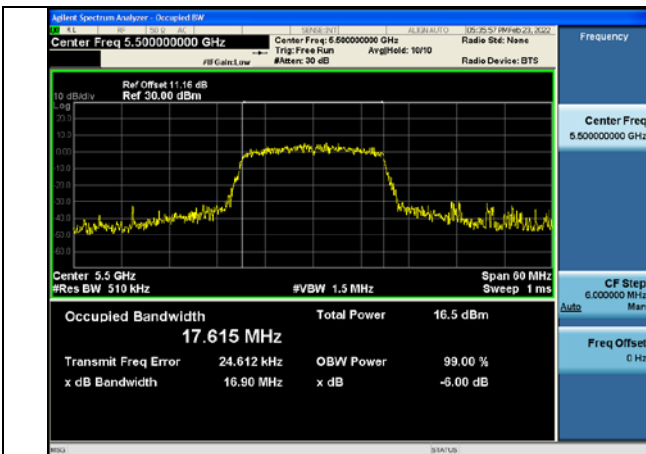
Test Mode:802.11n HT20 5500MHz Chain0

Test Mode:802.11n HT20 5580MHz Chain0

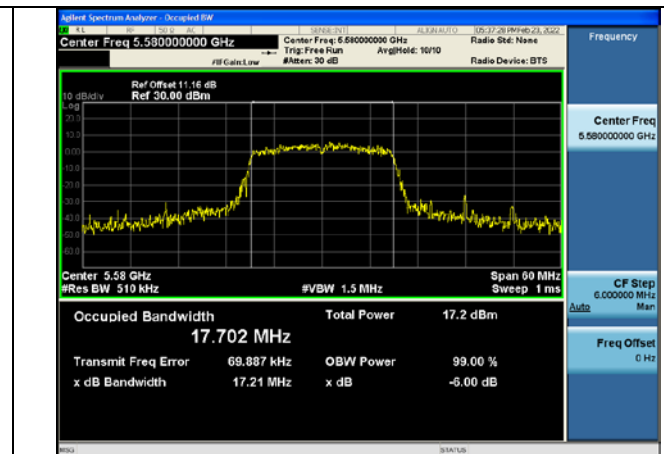


Test Mode:802.11n HT20 5700MHz Chain0

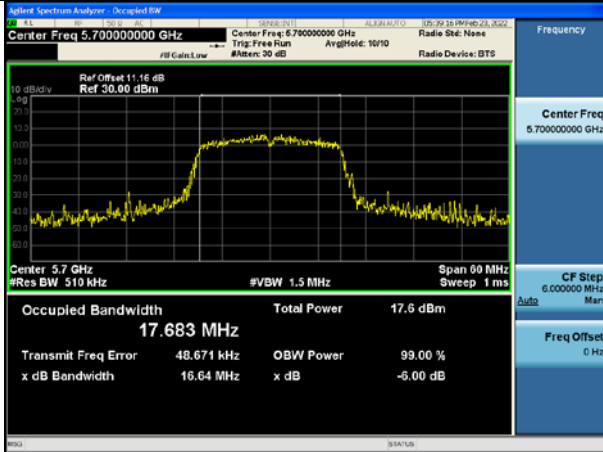
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5500MHz Chain0

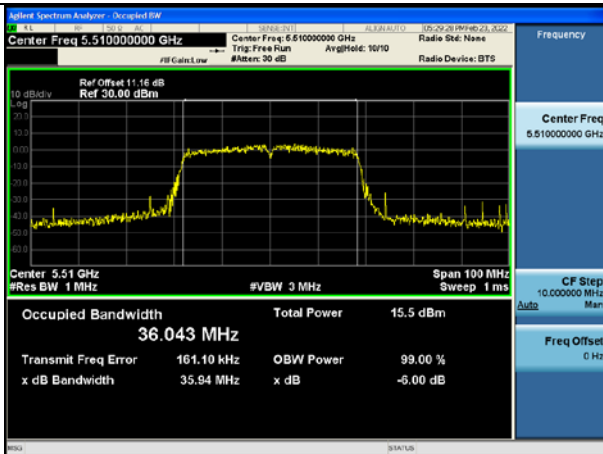


Test Mode:802.11ac VHT20 5580MHz Chain0

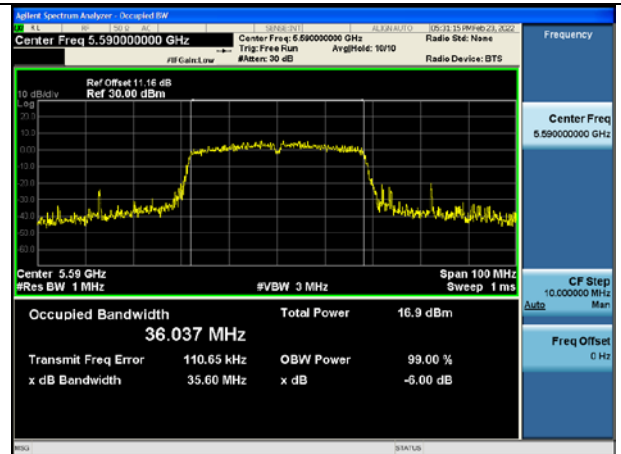


Test Mode:802.11ac VHT20 5700MHz Chain0

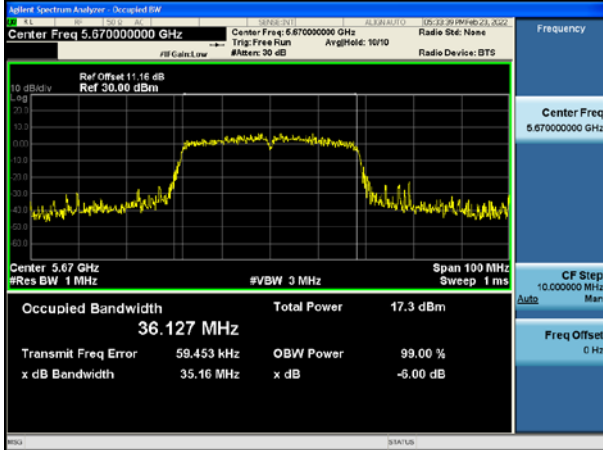
Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5510MHz Chain0



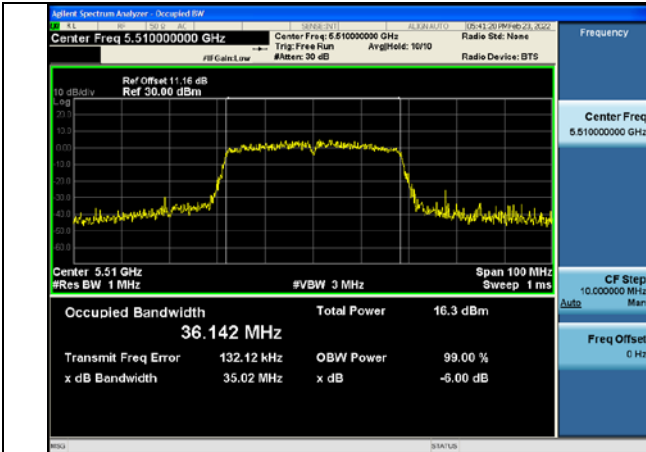
Test Mode:802.11n HT40 5590MHz Chain0



Test Mode:802.11n HT40 5670MHz Chain0

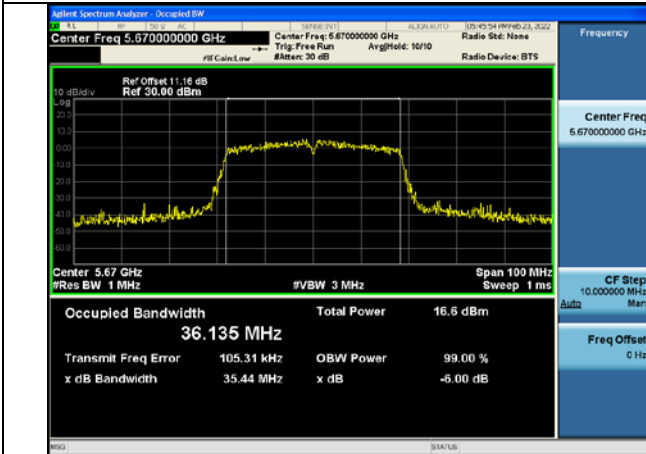


Test Mode: 802.11ac VHT40



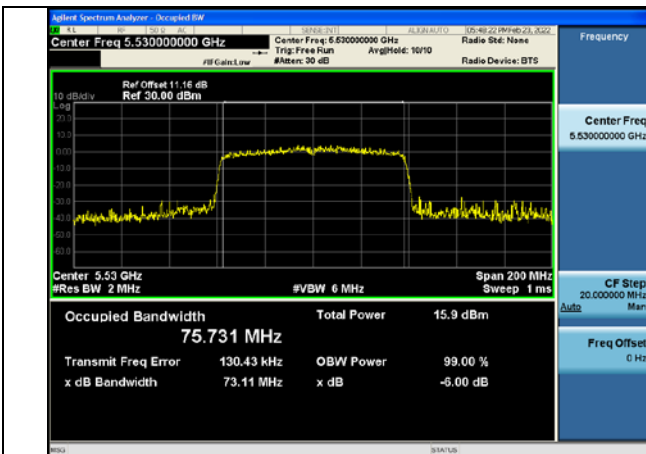
Test Mode:802.11ac VHT40 5510MHz Chain0

Test Mode:802.11ac VHT40 5590MHz Chain0

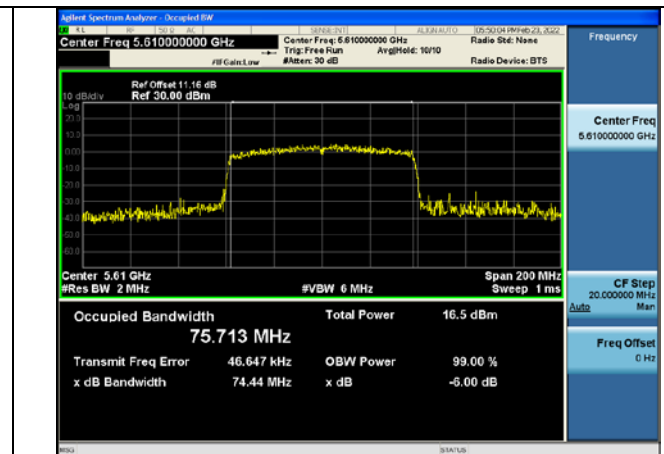


Test Mode:802.11ac VHT40 5670MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5530MHz Chain0



Test Mode:802.11ac VHT80 5610MHz Chain0

## Transmitter Power Spectral Density

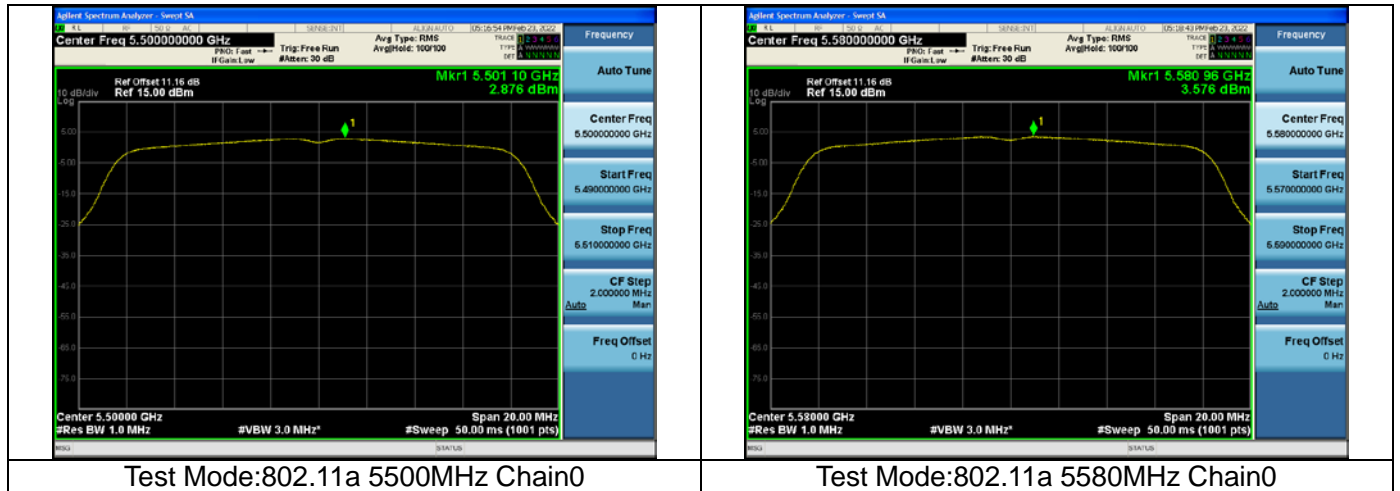
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

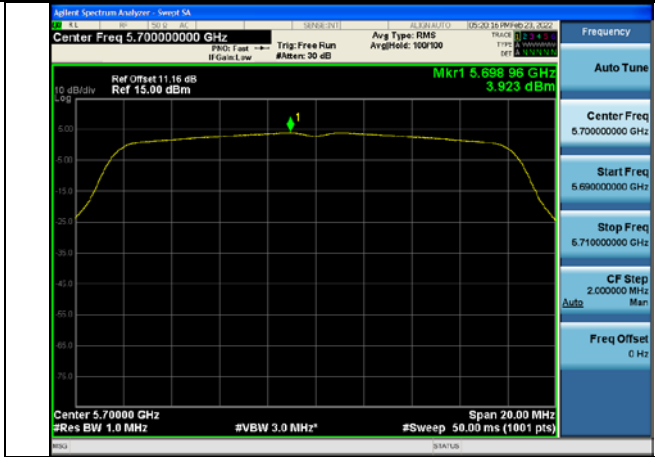
Test Mode	Antenna	5500MHz		5580MHz		5700MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11a	Chain0	0	2.876	0	3.576	0	3.923
802.11n HT20	Chain0	0	2.577	0	2.670	0	3.594
802.11ac VHT20	Chain0	0	2.526	0	3.208	0	3.579

Test Mode	Antenna	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	0.12	-1.141	0.12	0.269	0.12	0.561
802.11ac VHT40	Chain0	0.12	-0.493	0.12	0.388	0.12	0.081

Test Mode	Antenna	5530MHz		---		5610MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11ac VHT80	Chain0	0.23	-3.387	---	---	0.23	-2.819

Test Mode: 802.11a





Test Mode:802.11a 5700MHz Chain0

Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5500MHz Chain0

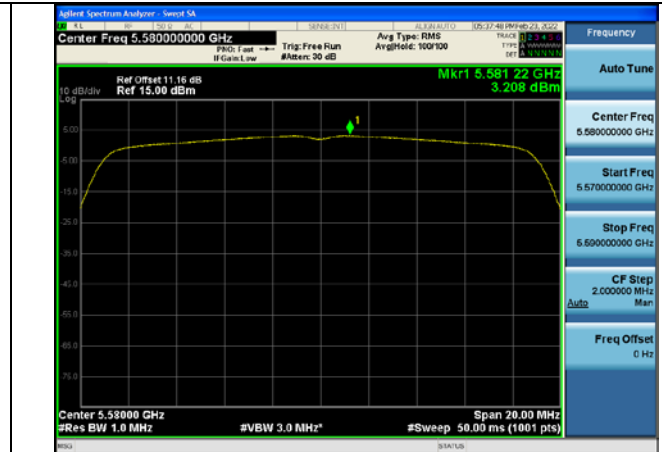
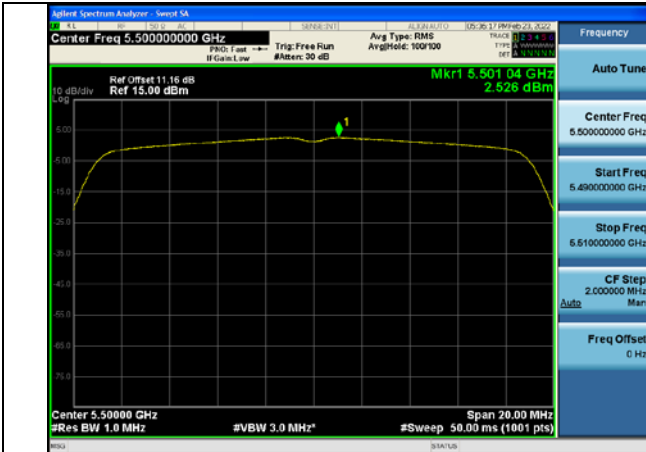


Test Mode:802.11n HT20 5580MHz Chain0



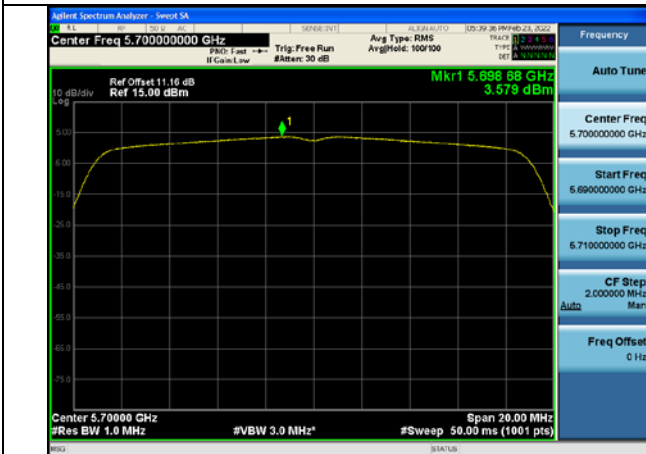
Test Mode:802.11n HT20 5700MHz Chain0

Test Mode: 802.11ac VHT20



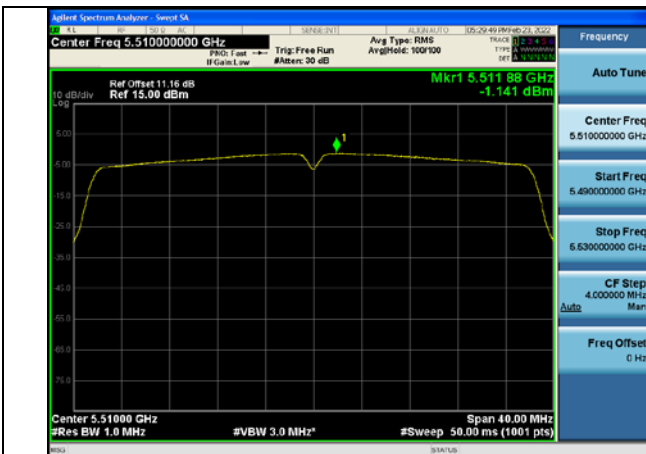
Test Mode:802.11ac VHT20 5500MHz Chain0

Test Mode:802.11ac VHT20 5580MHz Chain0

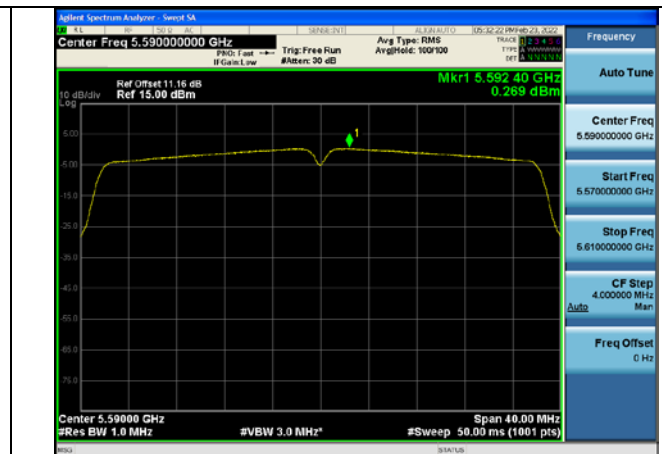


Test Mode:802.11ac VHT20 5700MHz Chain0

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5510MHz Chain0



Test Mode:802.11n HT40 5590MHz Chain0



Test Mode:802.11n HT40 5670MHz Chain0

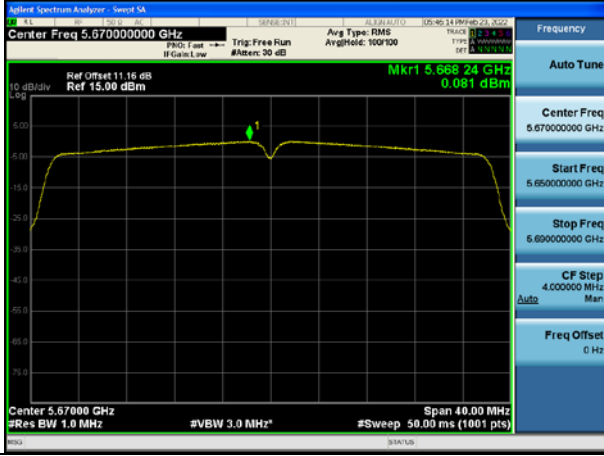
Test Mode: 802.11ac VHT40



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 VHT80

