APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5260	99.00%	0	Fig.1
802.11n HT20	5260	98.92%	0	Fig.2
802.11ac VHT20	5260	98.90%	0	Fig.3
802.11n HT40	5270	97.87%	0.09	Fig.4
802.11ac VHT40	5270	97.97%	0.09	Fig.5
802.11ac VHT80	5290	96.13%	0.17	Fig.6

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

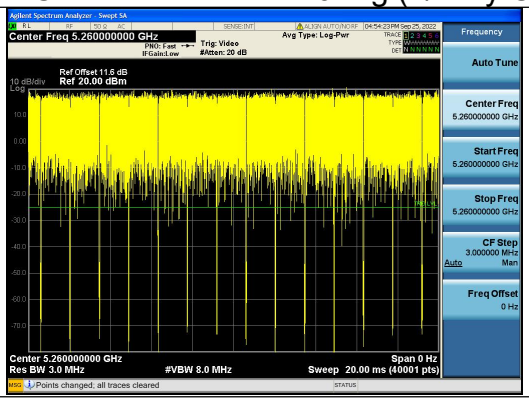


Fig.1

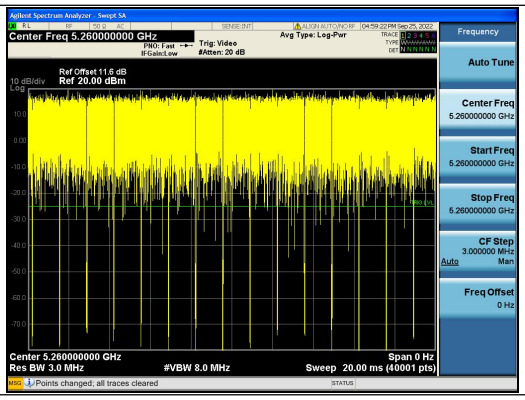


Fig.2

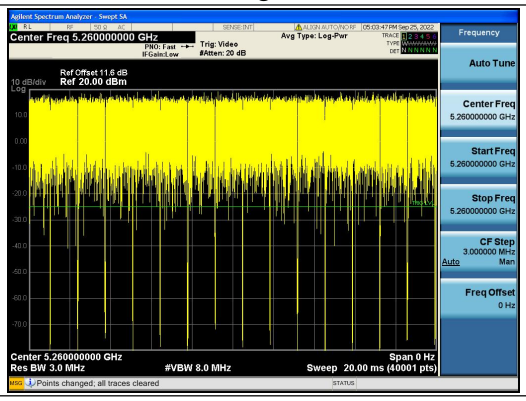


Fig.3

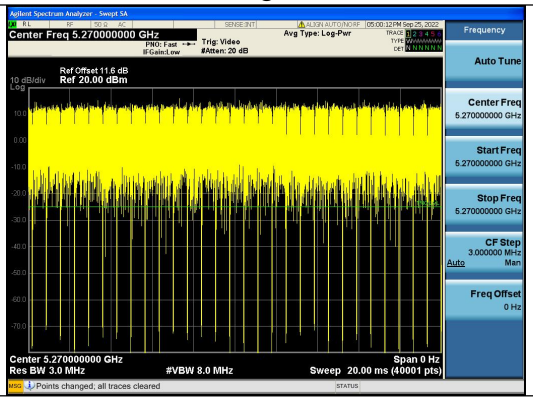


Fig.4

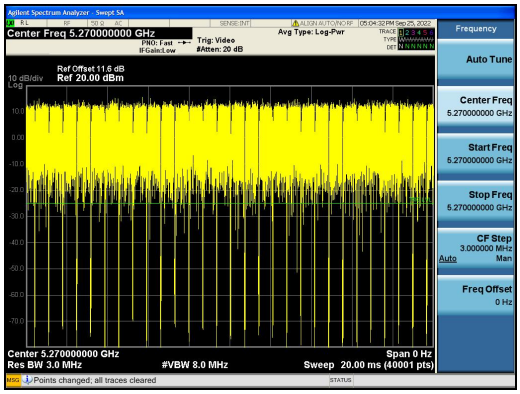


Fig.5

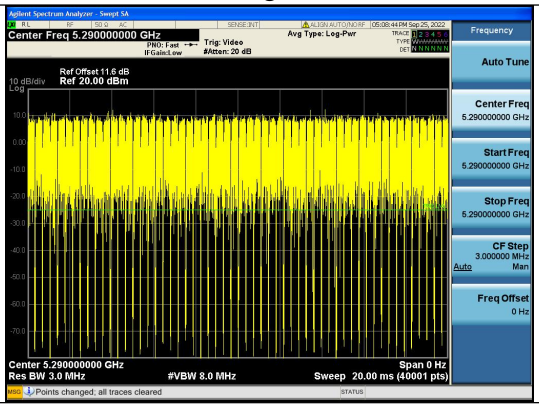


Fig.6

Output Power

Mode	Tones/ RUIndex	Freq (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5260	Chain0	10.27	9.07
802.11a	NA	5280	Chain0	10.38	9.18
802.11a	NA	5320	Chain0	10.71	9.51
802.11n HT20	NA	5260	Chain0	9.97	8.77
802.11n HT20	NA	5280	Chain0	10.25	9.05
802.11n HT20	NA	5320	Chain0	10.52	9.32
802.11ac VHT20	NA	5260	Chain0	9.99	8.79
802.11ac VHT20	NA	5280	Chain0	9.98	8.78
802.11ac VHT20	NA	5320	Chain0	10.51	9.31
802.11n HT40	NA	5270	Chain0	9.97	8.77
802.11n HT40	NA	5310	Chain0	10.09	8.89
802.11ac VHT40	NA	5270	Chain0	9.79	8.59
802.11ac VHT40	NA	5310	Chain0	10.36	9.16
802.11ac VHT80	NA	5290	Chain0	9.86	8.66

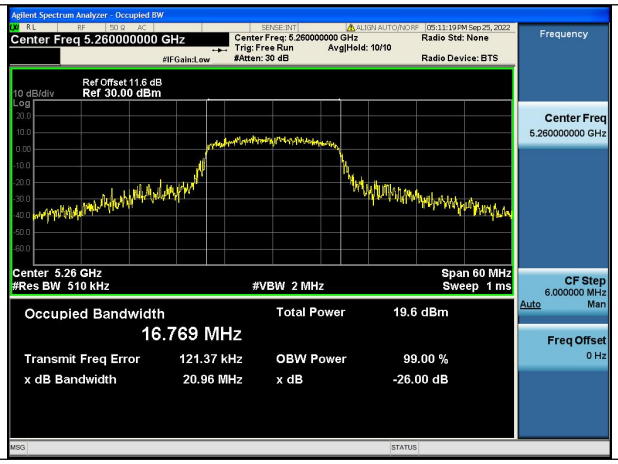
Emission Bandwidth

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.570	Channel No.574	Channel No.582
		5260MHz	5280MHz	5320MHz
802.11a	Chain0	20.96	23.21	24.32
802.11n HT20	Chain0	20.44	24.12	21.57
802.11ac VHT20	Chain0	23.27	23.16	25.65

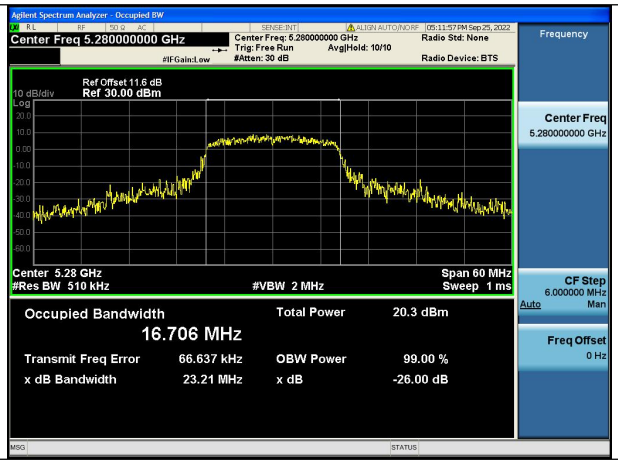
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.572	---	Channel No.580
		5270MHz	---	5310MHz
802.11n HT40	Chain0	40.21	---	40.19
802.11ac VHT40	Chain0	40.02	---	40.98

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.576	---	---
		5290MHz	---	---
802.11ac VHT80	Chain0	82.46	---	---

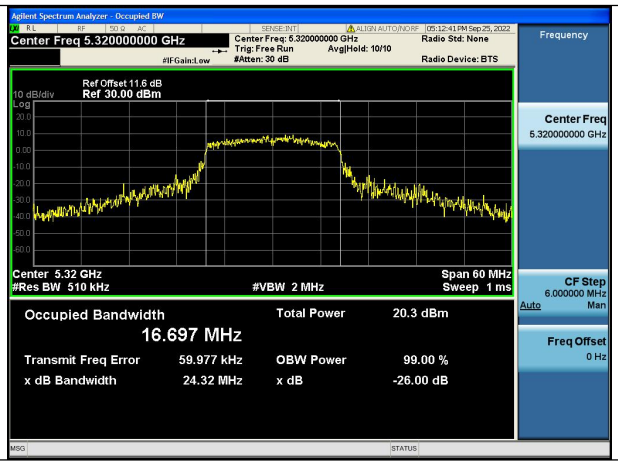
Test Mode: 802.11a



Test Mode:802.11a 5260MHz Chain0

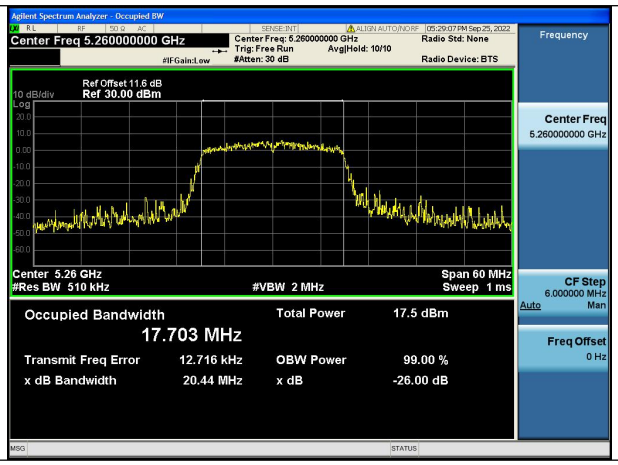


Test Mode:802.11a 5280MHz Chain0

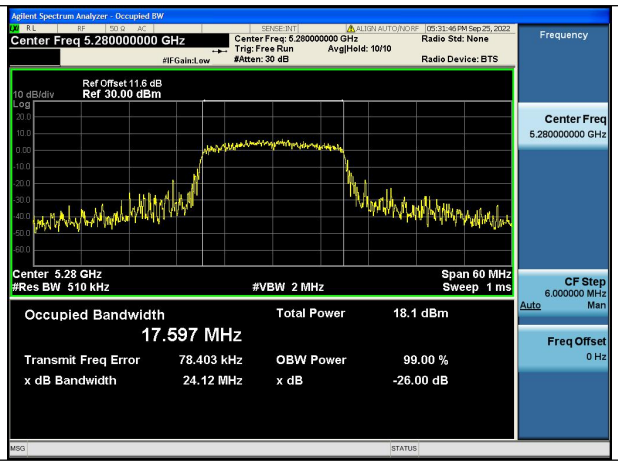


Test Mode:802.11a 5320MHz Chain0

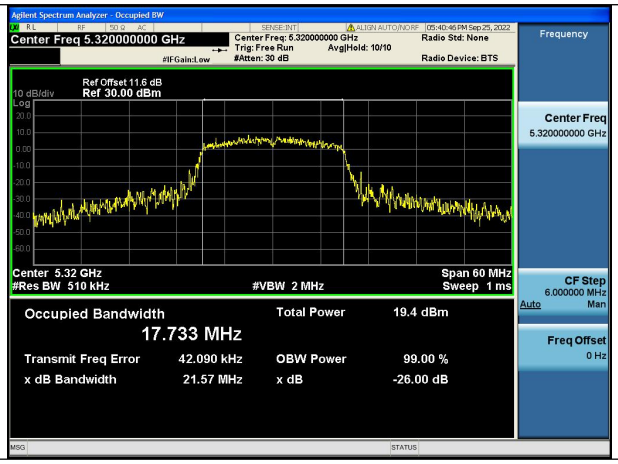
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5260MHz Chain0

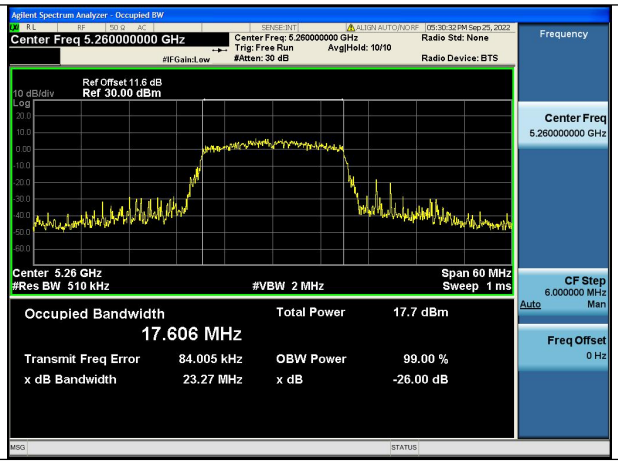


Test Mode:802.11n HT20 5280MHz Chain0

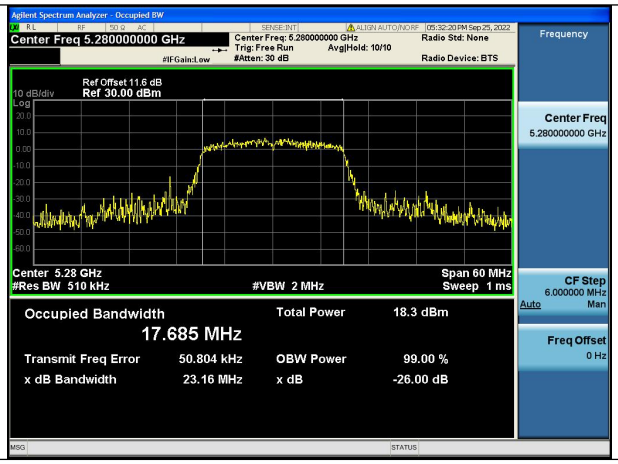


Test Mode:802.11n HT20 5320MHz Chain0

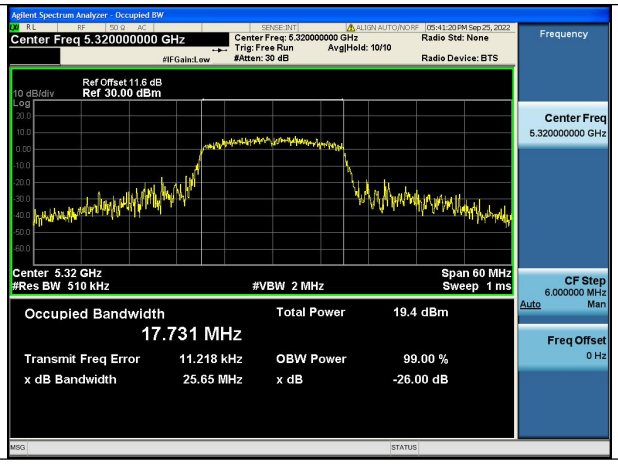
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5260MHz Chain0

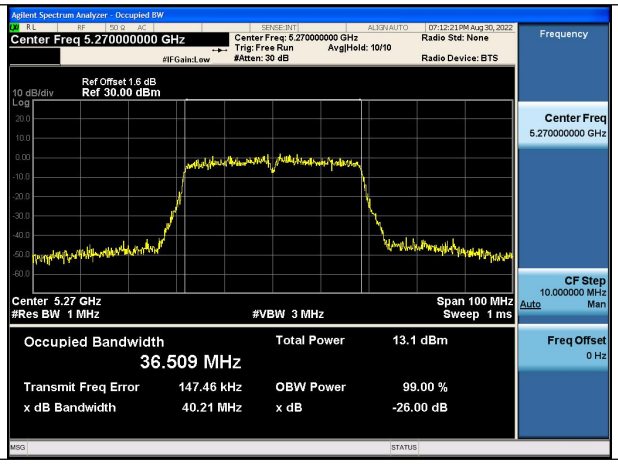


Test Mode:802.11ac VHT20 5280MHz Chain0

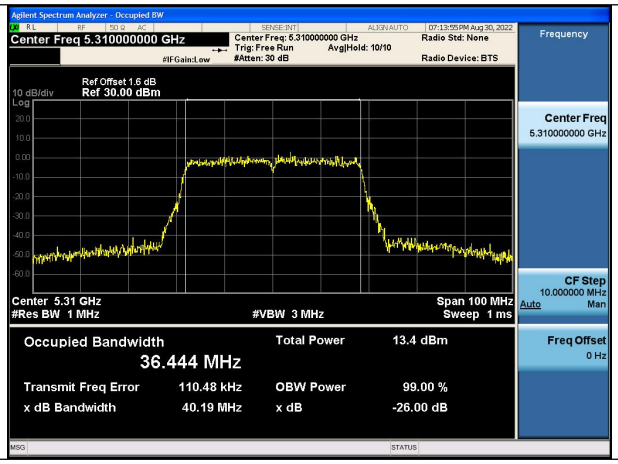


Test Mode:802.11ac VHT20 5320MHz Chain0

Test Mode: 802.11n HT40

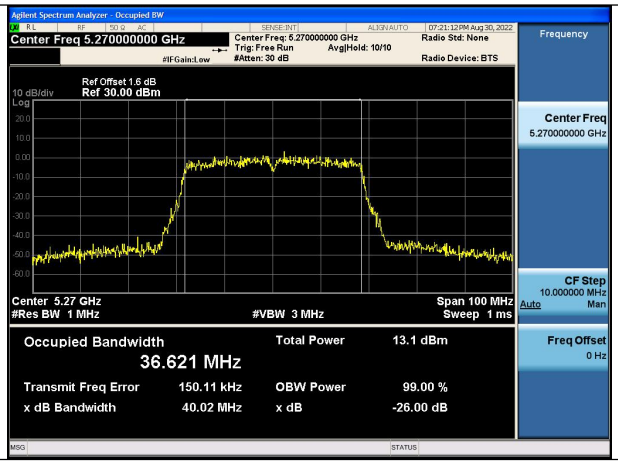


Test Mode:802.11n HT40 5270MHz Chain0

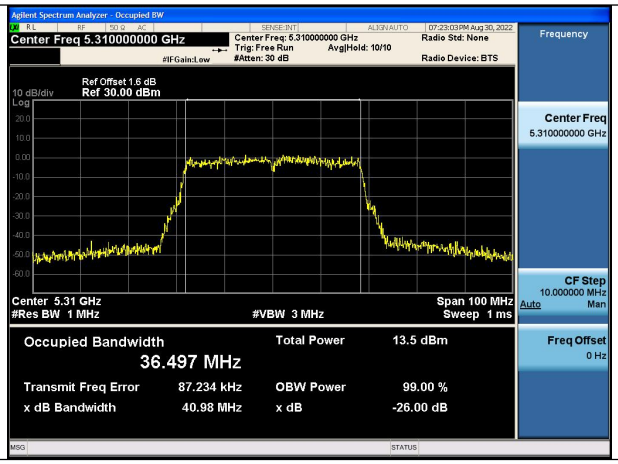


Test Mode:802.11n HT40 5310MHz Chain0

Test Mode: 802.11ac VHT40

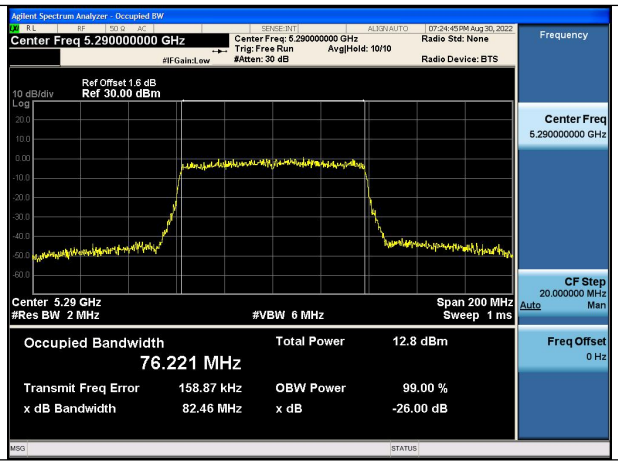


Test Mode:802.11ac VHT40 5270MHz Chain0



Test Mode:802.11ac VHT40 5310MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5290MHz Chain0

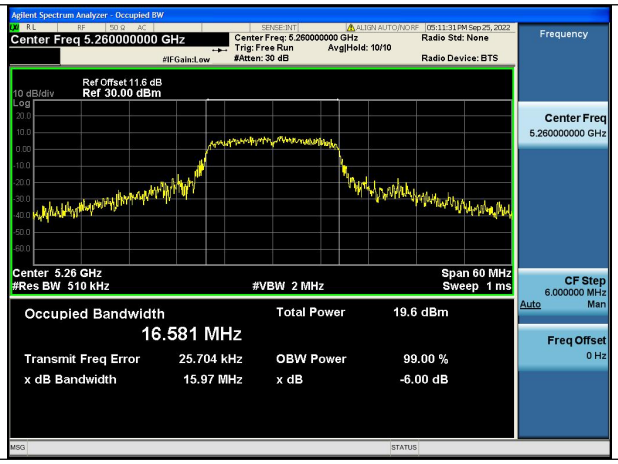
Occupied Bandwidth

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.570	Channel No.574	Channel No.582
		5260MHz	5280MHz	5320MHz
802.11a	Chain0	16.581	16.648	16.579
802.11n HT20	Chain0	17.662	17.670	17.776
802.11ac VHT20	Chain0	17.756	17.732	17.735

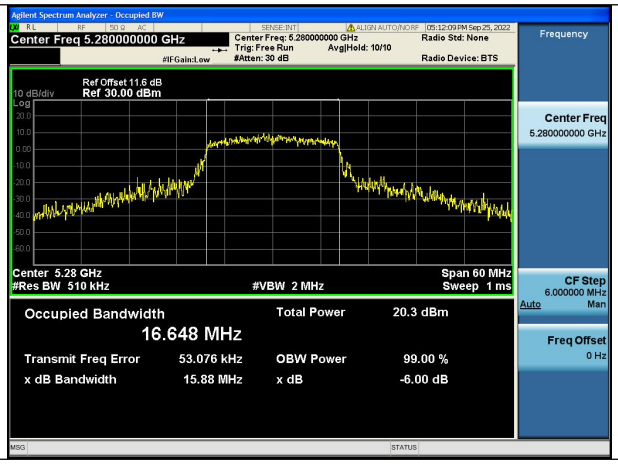
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.572	---	Channel No.580
		5270MHz	---	5310MHz
802.11n HT40	Chain0	36.511	---	36.413
802.11ac VHT40	Chain0	36.636	---	36.428

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.576	---	---
		5290MHz	---	---
802.11ac VHT80	Chain0	76.466	---	---

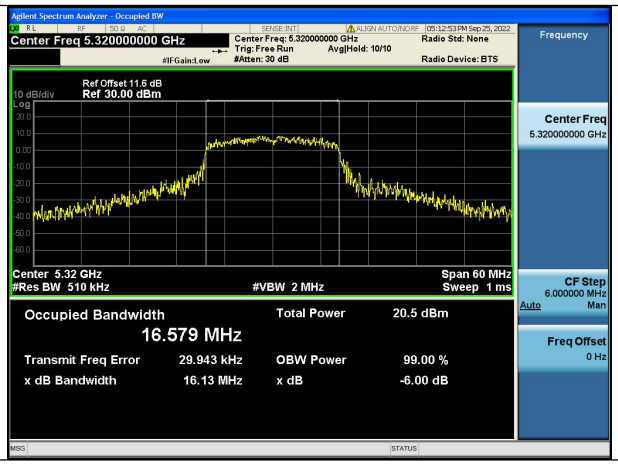
Test Mode: 802.11a



Test Mode:802.11a 5260MHz Chain0

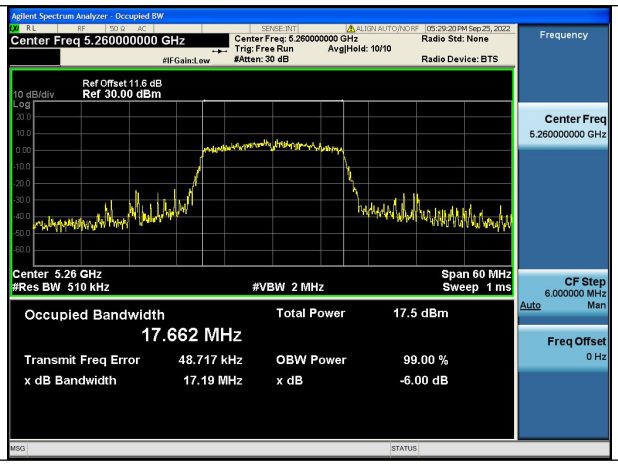


Test Mode:802.11a 5280MHz Chain0

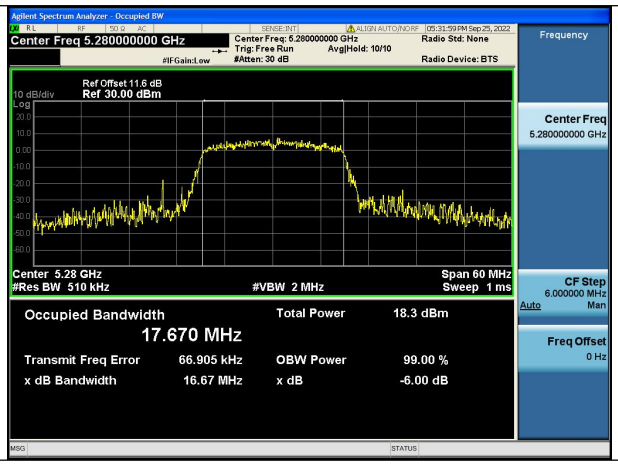


Test Mode:802.11a 5320MHz Chain0

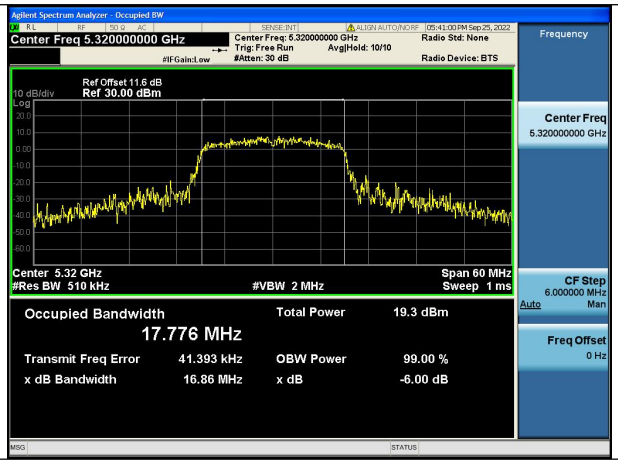
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5260MHz Chain0

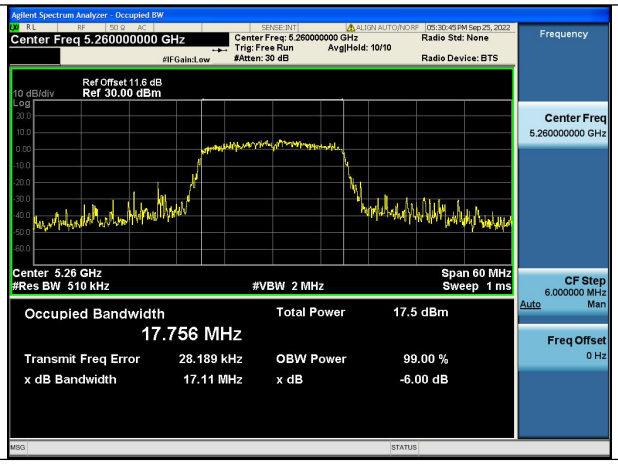


Test Mode:802.11n HT20 5280MHz Chain0

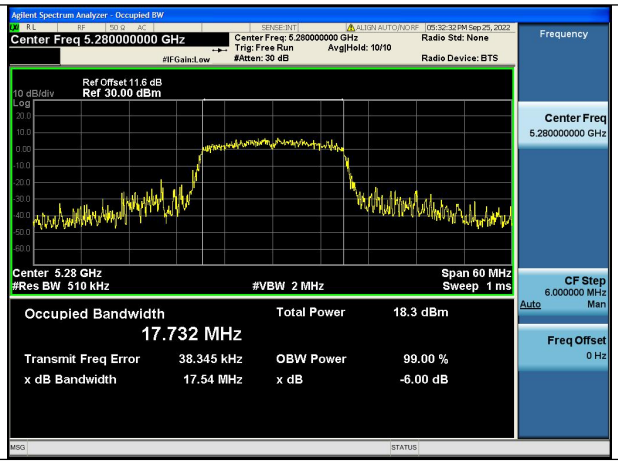


Test Mode:802.11n HT20 5320MHz Chain0

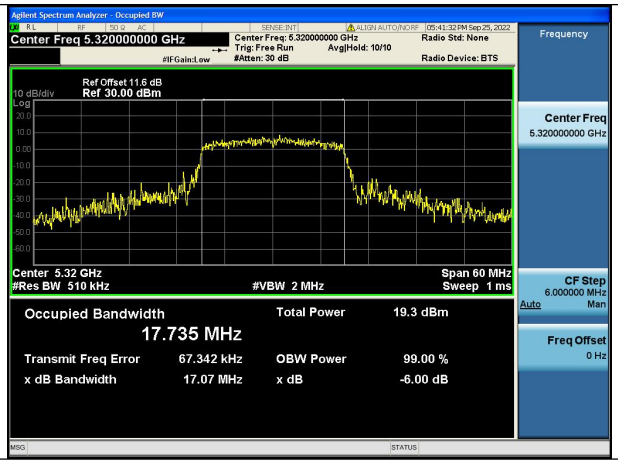
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5260MHz Chain0

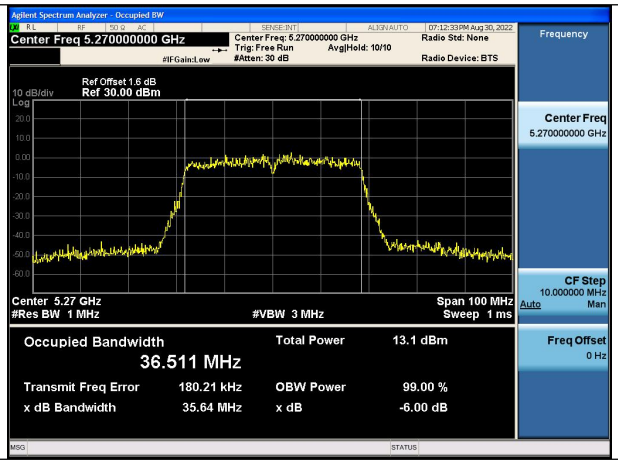


Test Mode:802.11ac VHT20 5280MHz Chain0

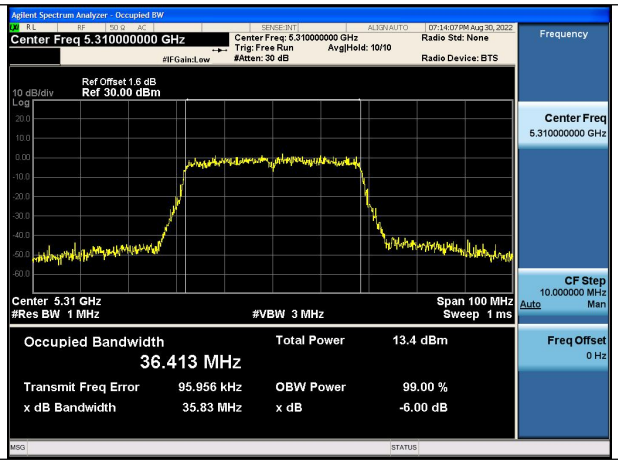


Test Mode:802.11ac VHT20 5320MHz Chain0

Test Mode: 802.11n HT40

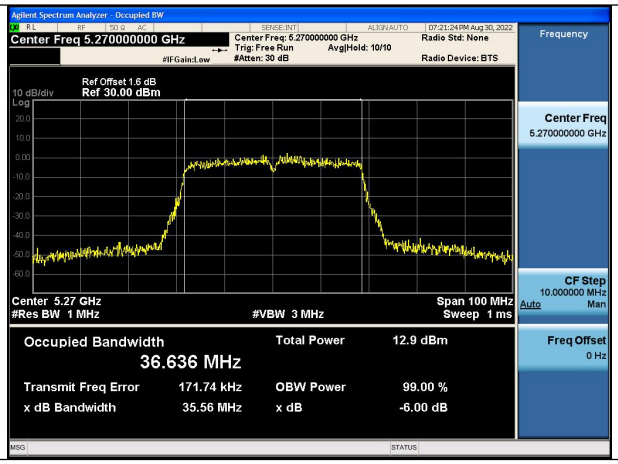


Test Mode:802.11n HT40 5270MHz Chain0

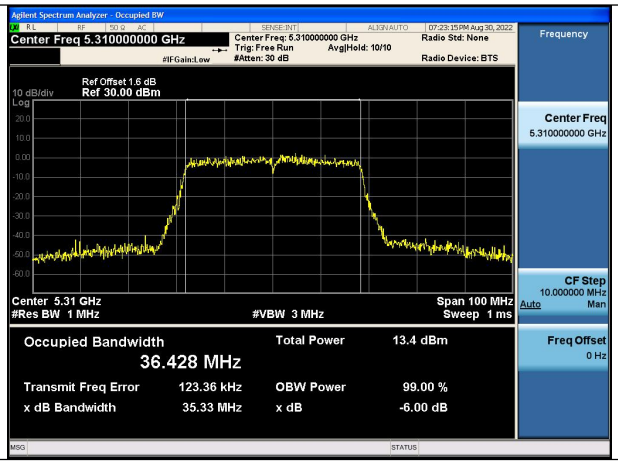


Test Mode:802.11n HT40 5310MHz Chain0

Test Mode: 802.11ac VHT40

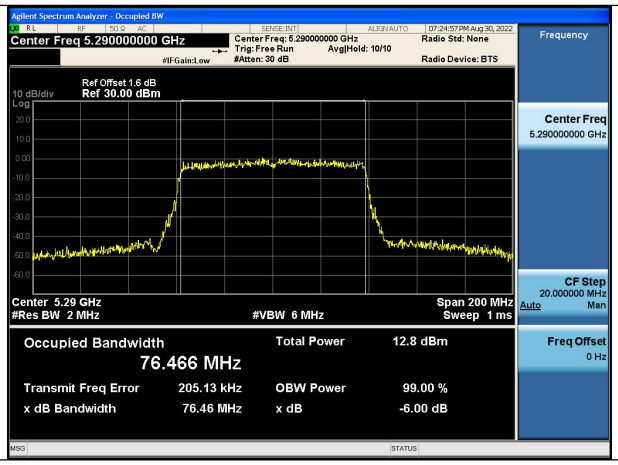


Test Mode:802.11ac VHT40 5270MHz Chain0



Test Mode:802.11ac VHT40 5310MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5290MHz Chain0

Transmitter Power Spectral Density

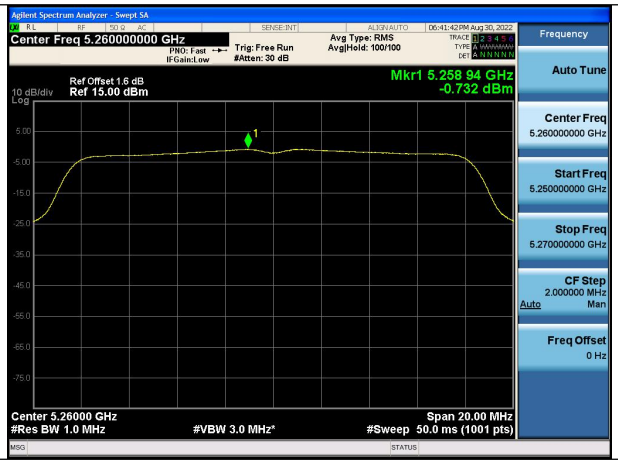
Offset 1.6dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Tones	5260MHz		5280MHz		5320MHz	
			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	-0.732	0	-0.686	0	-0.287
802.11n HT20	Chain0	NA	0	-1.406	0	-1.091	0	-0.670
802.11ac VHT20	Chain0	NA	0	-1.370	0	-1.066	0	-0.696

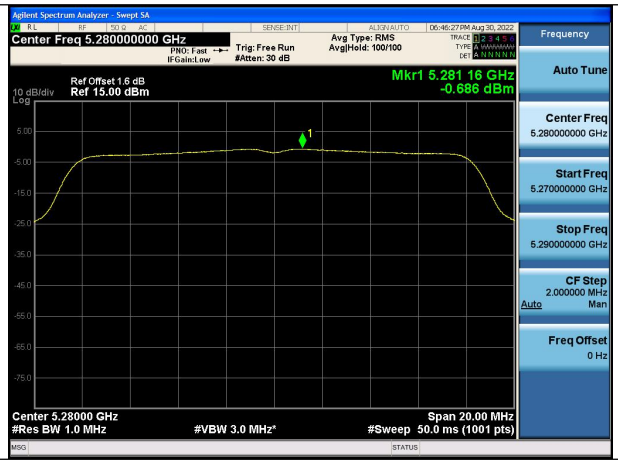
Test Mode	Antenna	Tones	5270MHz		---		5310MHz	
			Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11n HT40	Chain0	NA	0.09	-4.246	---	---	0.09	-3.719
802.11ac VHT40	Chain0	NA	0.09	-4.252	---	---	0.09	-3.743

Test Mode	Antenna	Tones	5290MHz		---		---	
			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	NA	0.17	-7.055	---	---	---	---

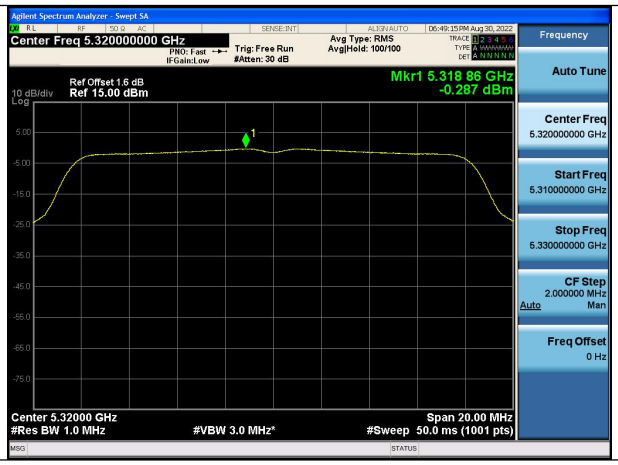
Test Mode: 802.11a



Test Mode:802.11a 5260MHz Chain0

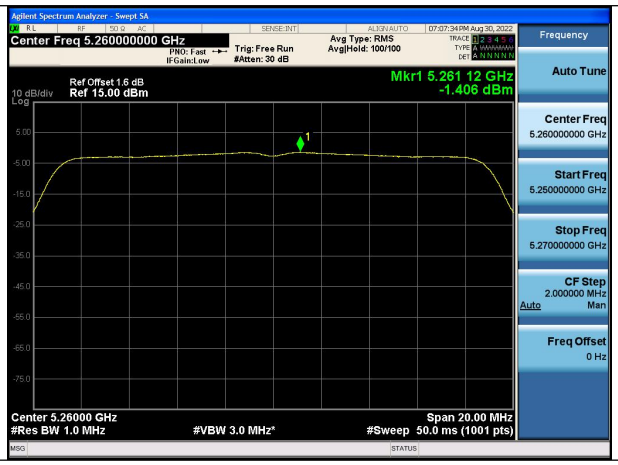


Test Mode:802.11a 5280MHz Chain0

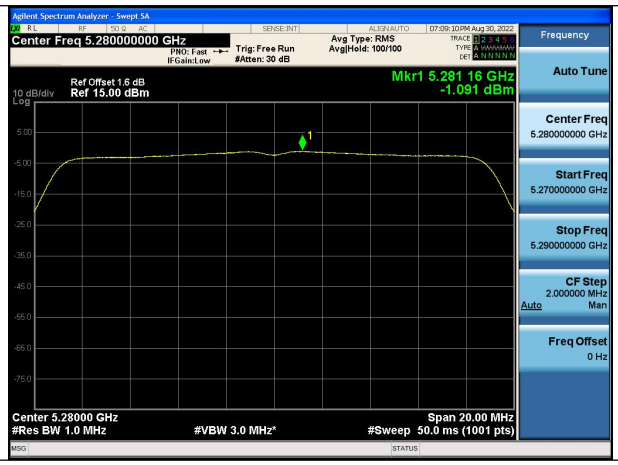


Test Mode:802.11a 5320MHz Chain0

Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5260MHz Chain0



Test Mode:802.11n HT20 5280MHz Chain0