

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Antenna	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	Chain0	5260	99.28%	0	Fig.1
802.11n HT20	Chain0	5260	99.12%	0	Fig.2
802.11ac VHT20	Chain0	5260	99.13%	0	Fig.3
802.11n HT40	Chain0	5270	98.38%	0	Fig.4
802.11ac VHT40	Chain0	5270	98.47%	0	Fig.5
802.11ac VHT80	Chain0	5290	96.80%	0.14	Fig.6

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

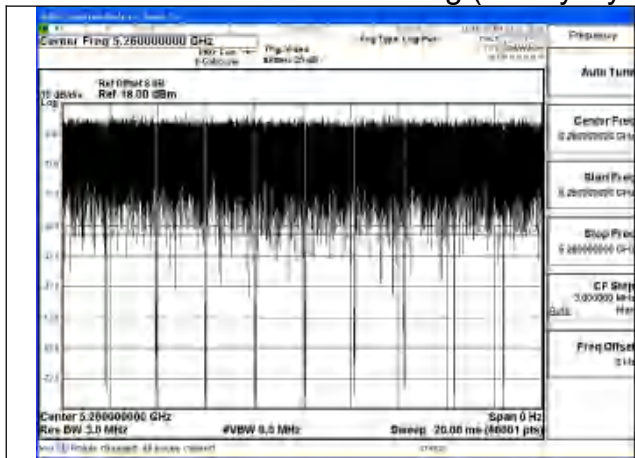


Fig.1

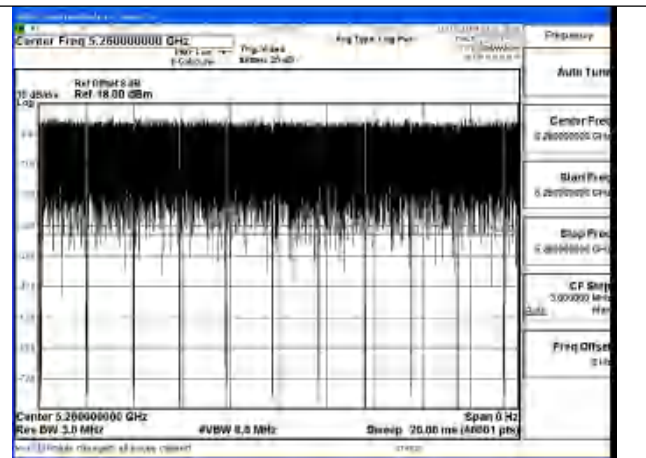


Fig.2

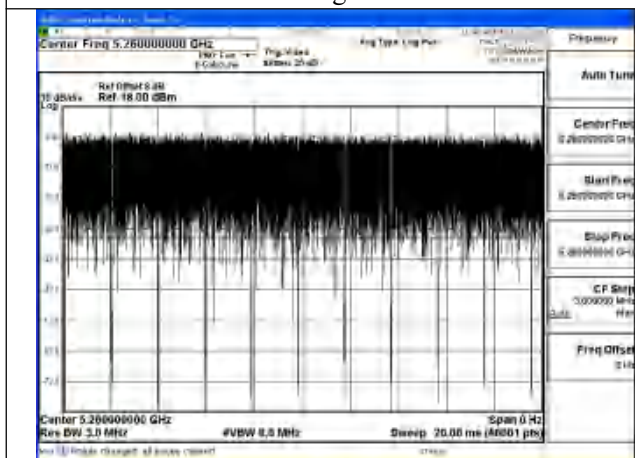


Fig.3

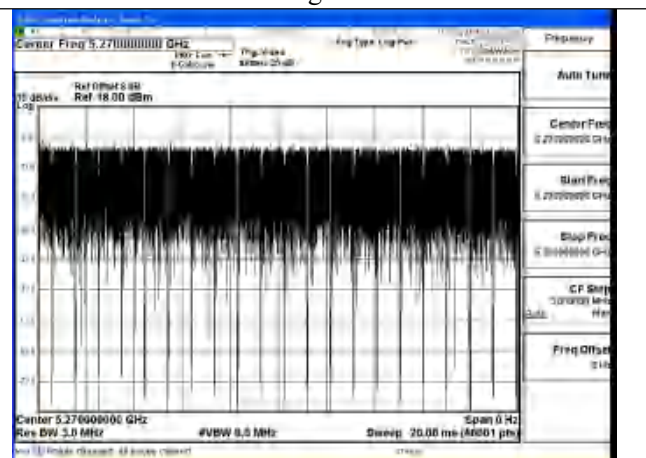


Fig.4

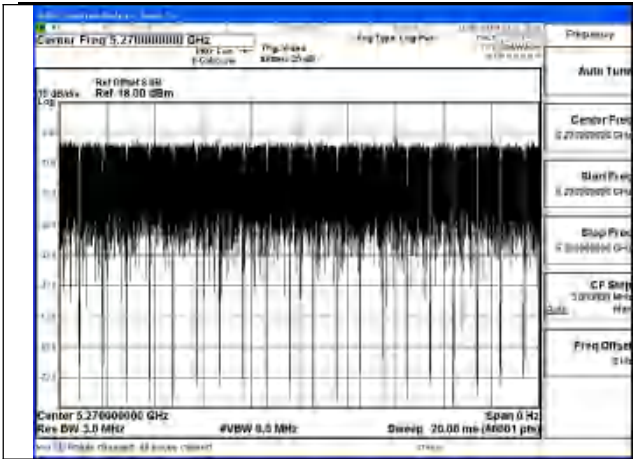


Fig.5

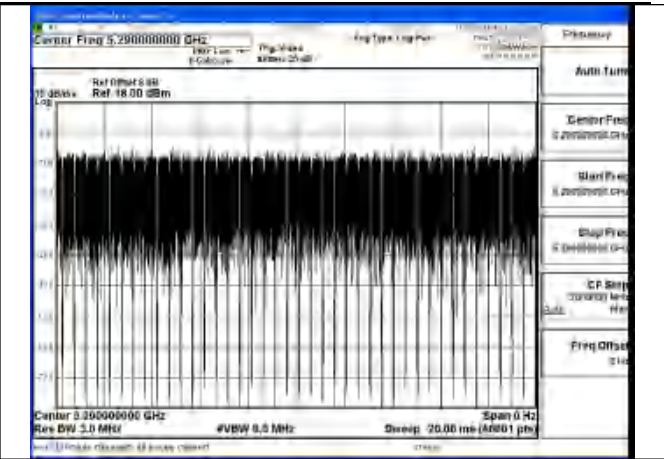


Fig.6

Output Power

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5260	Chain0	10.21	8.91
802.11a	NA	5280	Chain0	10.55	9.25
802.11a	NA	5320	Chain0	10.62	9.32
802.11n HT20	NA	5260	Chain0	10.99	9.69
802.11n HT20	NA	5280	Chain0	10.54	9.24
802.11n HT20	NA	5320	Chain0	10.48	9.18
802.11ac VHT20	NA	5260	Chain0	10.35	9.05
802.11ac VHT20	NA	5280	Chain0	10.17	8.87
802.11ac VHT20	NA	5320	Chain0	10.98	9.68
802.11n HT40	NA	5270	Chain0	10.58	9.28
802.11n HT40	NA	5310	Chain0	10.56	9.26
802.11ac VHT40	NA	5270	Chain0	10.30	9.00
802.11ac VHT40	NA	5310	Chain0	10.17	8.87
802.11ac VHT80	NA	5290	Chain0	10.95	9.65



Emission Bandwidth

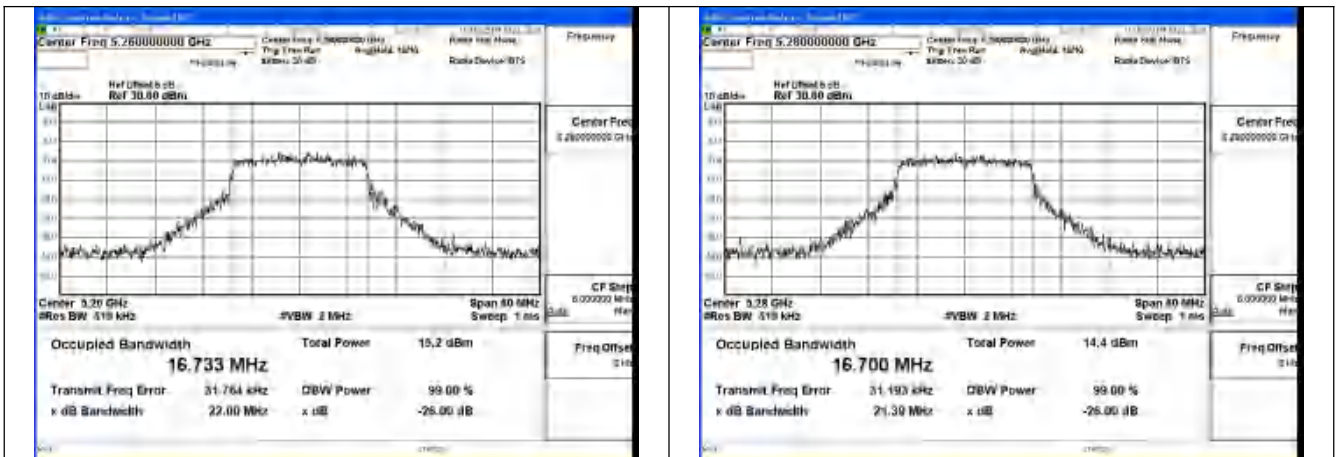
Offset 8dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5260MHz	5280MHz	5320MHz
802.11a	Chain0	22.00	21.39	23.36
802.11n HT20	Chain0	22.40	23.90	23.42
802.11ac VHT20	Chain0	21.93	22.57	22.48

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5270MHz	---	5310MHz
802.11n HT40	Chain0	40.42	---	40.78
802.11ac VHT40	Chain0	40.85	---	40.83

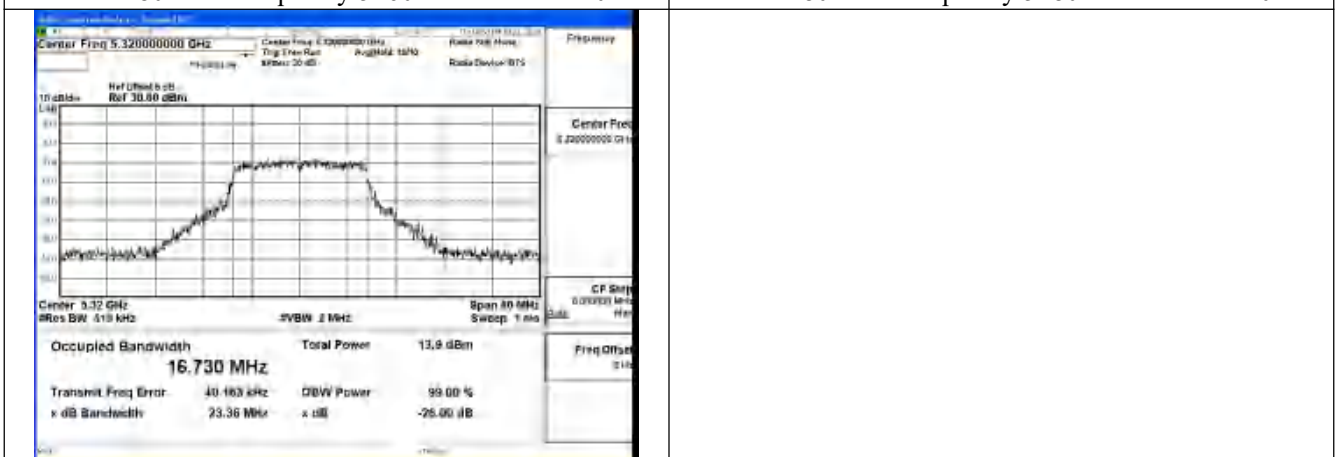
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5290MHz	---	---
802.11ac VHT80	Chain0	83.66	---	---

Test Mode: 802.11a



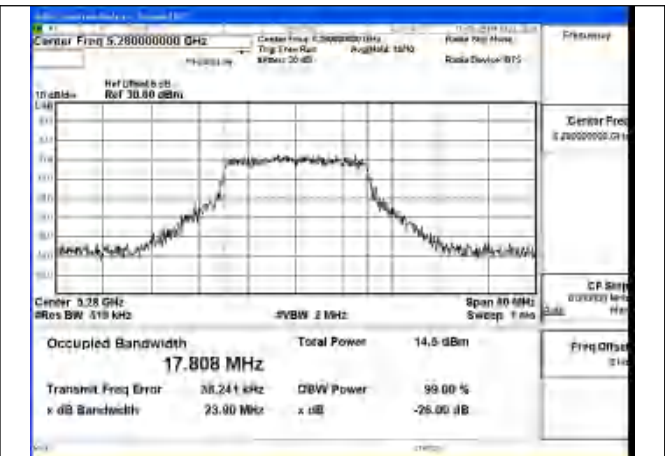
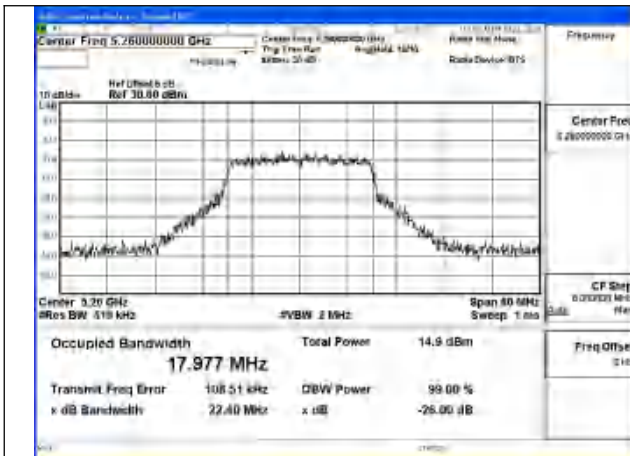
Mode:802.11a Frequency:5260MHz Ant:Chain0

Mode:802.11a Frequency:5280MHz Ant:Chain0



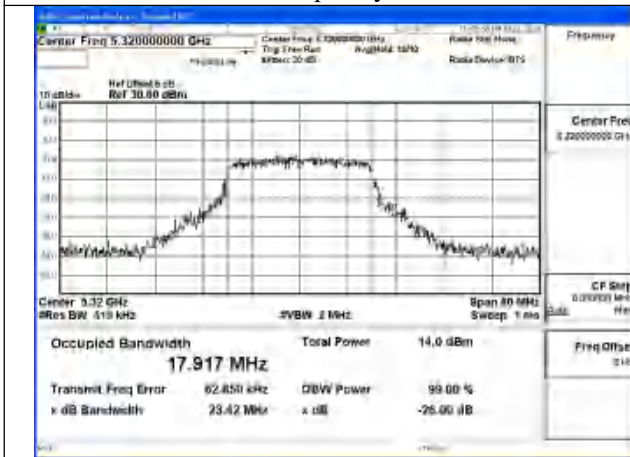
Mode:802.11a Frequency:5320MHz Ant:Chain0

Test Mode: 802.11n HT20



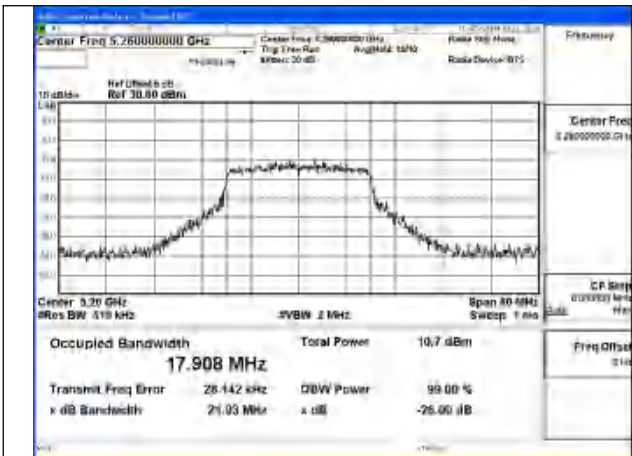
Mode:802.11n HT20 Frequency:5260MHz Ant:Chain0

Mode:802.11n HT20 Frequency:5280MHz Ant:Chain0

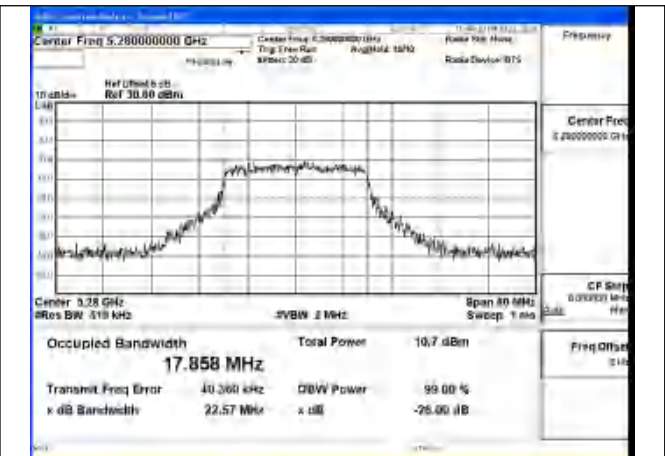


Mode:802.11n HT20 Frequency:5320MHz Ant:Chain0

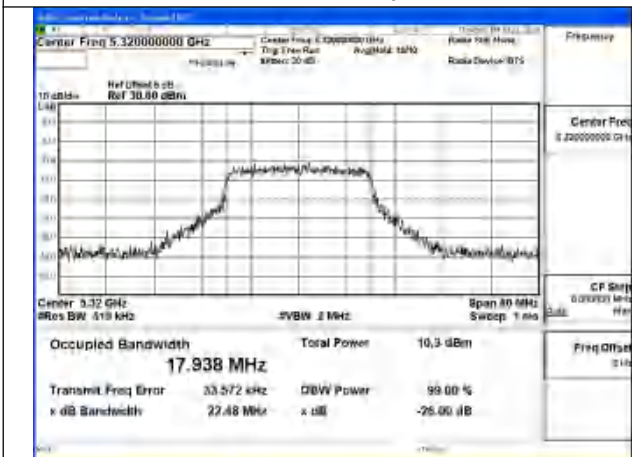
Test Mode: 802.11ac VHT20



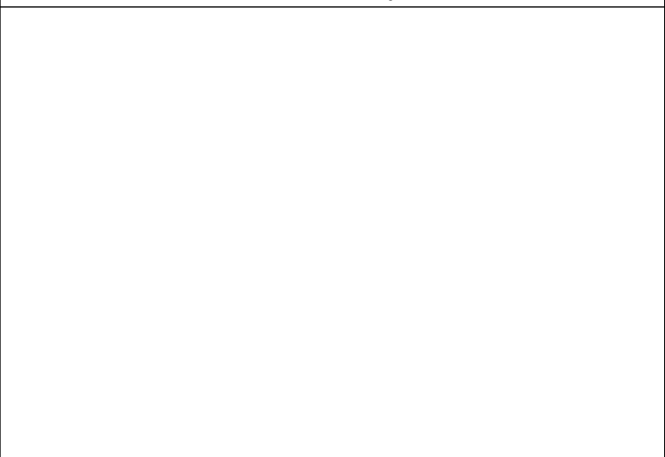
Mode:802.11ac VHT20 Frequency:5260MHz
 Ant:Chain0



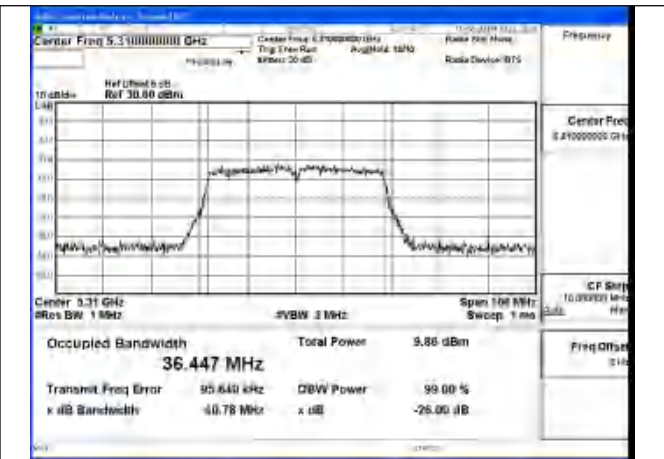
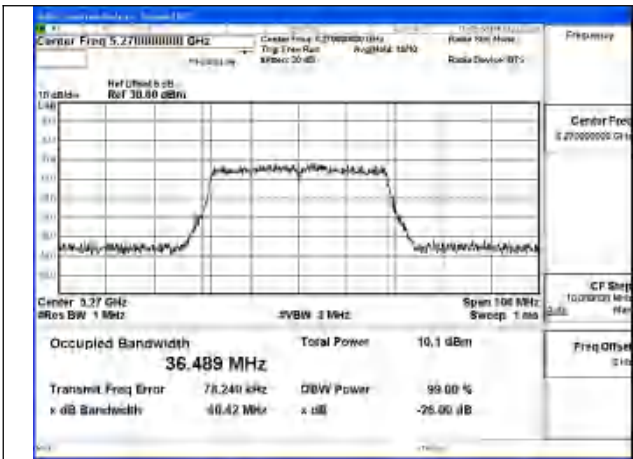
Mode:802.11ac VHT20 Frequency:5280MHz
 Ant:Chain0



Mode:802.11ac VHT20 Frequency:5320MHz
 Ant:Chain0



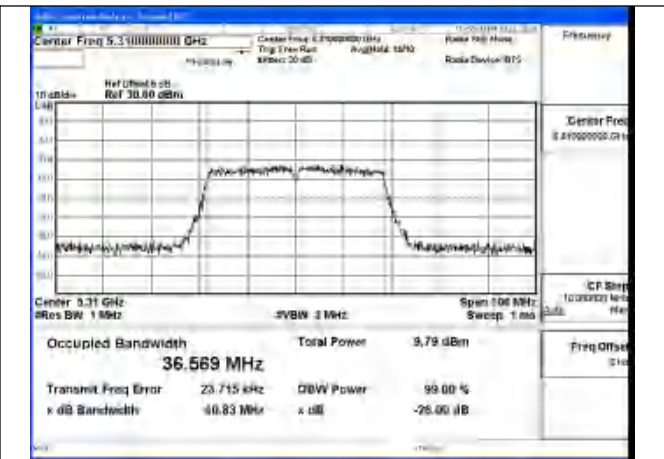
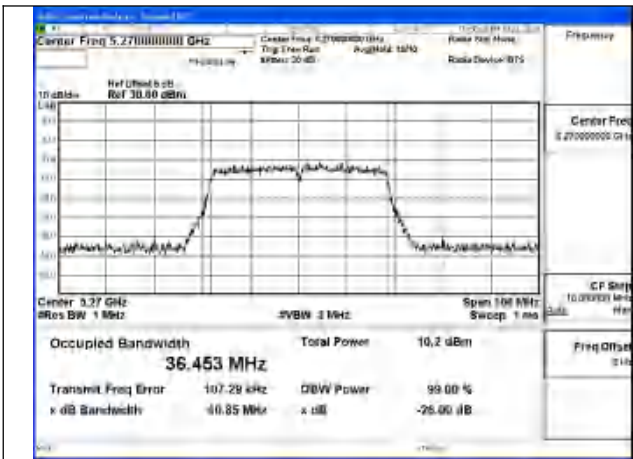
Test Mode: 802.11n HT40



Mode:802.11n HT40 Frequency:5270MHz Ant:Chain0

Mode:802.11n HT40 Frequency:5310MHz Ant:Chain0

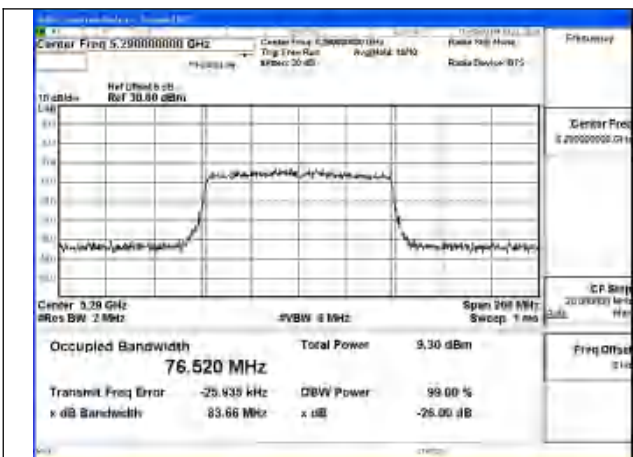
Test Mode: 802.11ac VHT40



Mode:802.11ac VHT40 Frequency:5270MHz
Ant:Chain0

Mode:802.11ac VHT40 Frequency:5310MHz
Ant:Chain0

Test Mode: 802.11ac VHT80



Mode:802.11ac VHT80 Frequency:5290MHz
Ant:Chain0



Occupied Bandwidth

Offset 8dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5260MHz	5280MHz	5320MHz
802.11a	Chain0	16.688	16.785	16.758
802.11n HT20	Chain0	17.913	17.888	17.960
802.11ac VHT20	Chain0	17.908	17.872	17.988

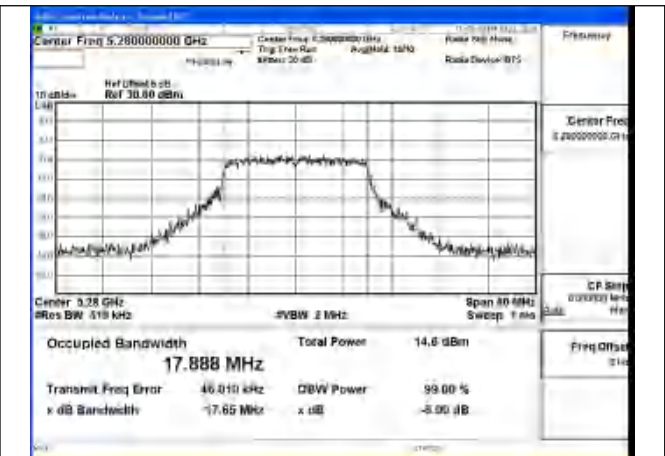
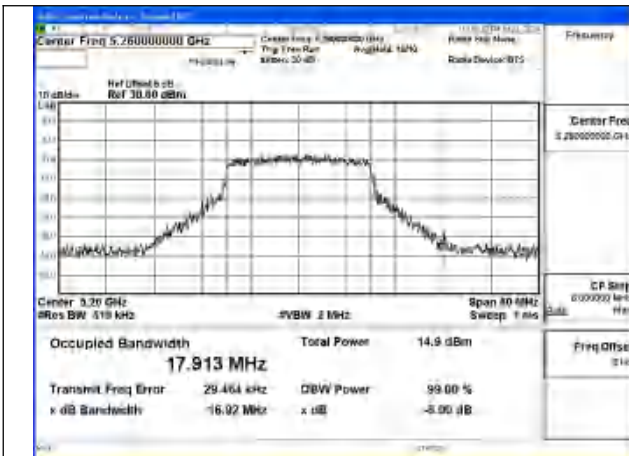
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5270MHz	---	5310MHz
802.11n HT40	Chain0	36.432	---	36.343
802.11ac VHT40	Chain0	36.537	---	36.454

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5290MHz	---	---
802.11ac VHT80	Chain0	76.443	---	---

Test Mode: 802.11a

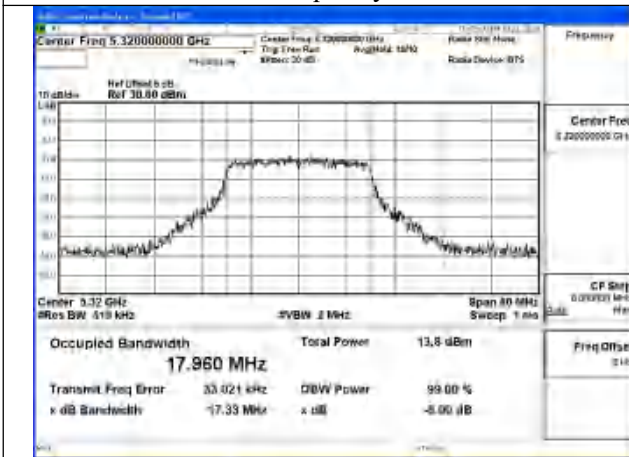
Mode:802.11a Frequency:5260MHz Ant:Chain0	Mode:802.11a Frequency:5280MHz Ant:Chain0
Mode:802.11a Frequency:5320MHz Ant:Chain0	

Test Mode: 802.11n HT20



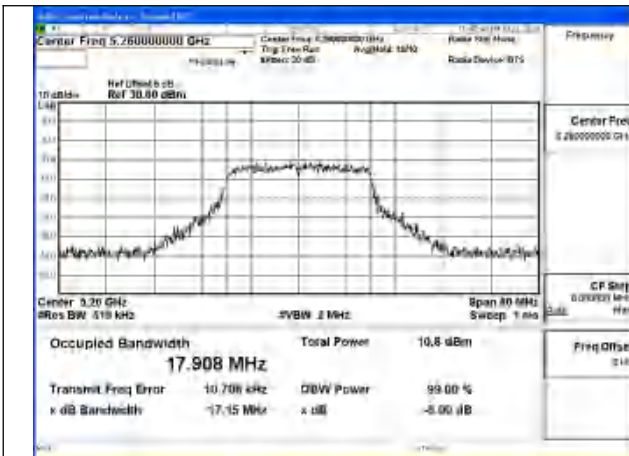
Mode:802.11n HT20 Frequency:5260MHz Ant:Chain0

Mode:802.11n HT20 Frequency:5280MHz Ant:Chain0

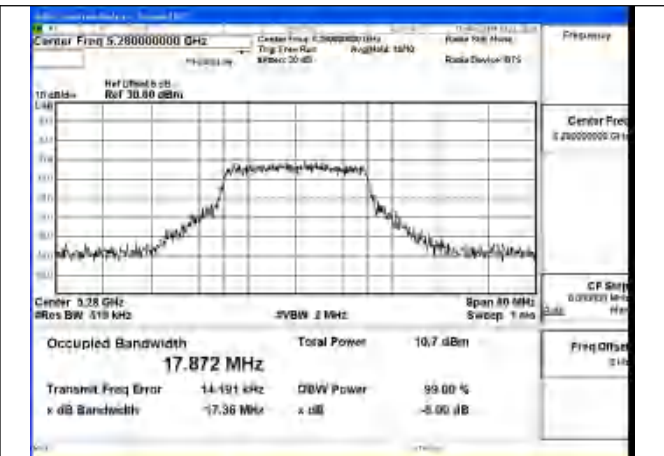


Mode:802.11n HT20 Frequency:5320MHz Ant:Chain0

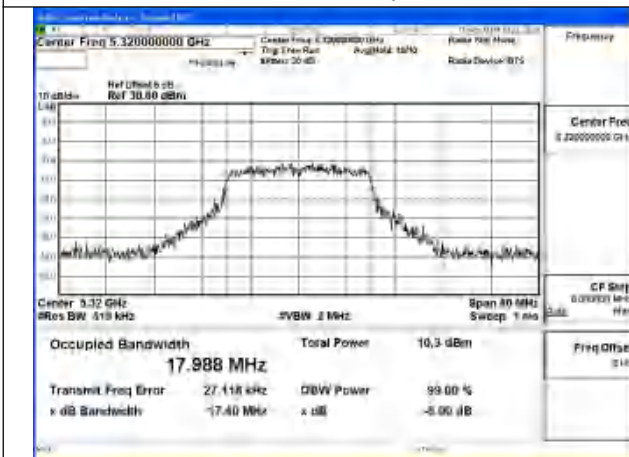
Test Mode: 802.11ac VHT20



Mode:802.11ac VHT20 Frequency:5260MHz
 Ant:Chain0

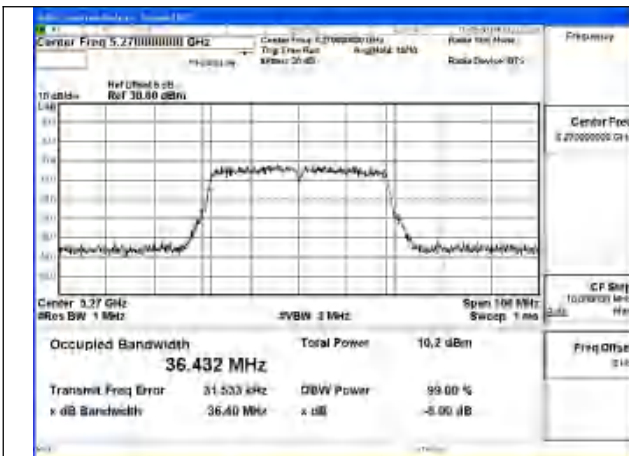


Mode:802.11ac VHT20 Frequency:5280MHz
 Ant:Chain0

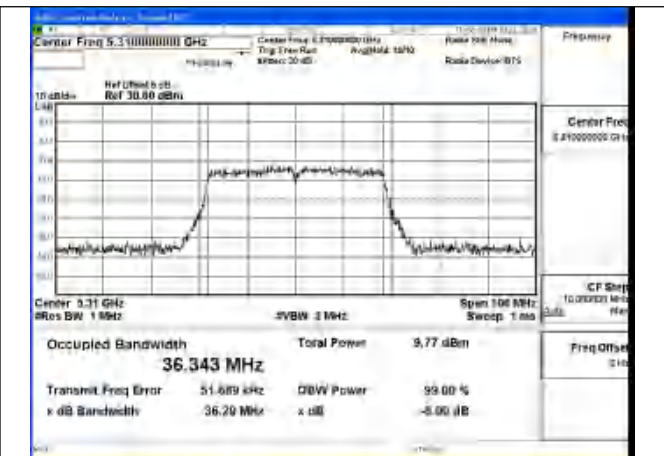


Mode:802.11ac VHT20 Frequency:5320MHz
 Ant:Chain0

Test Mode: 802.11n HT40

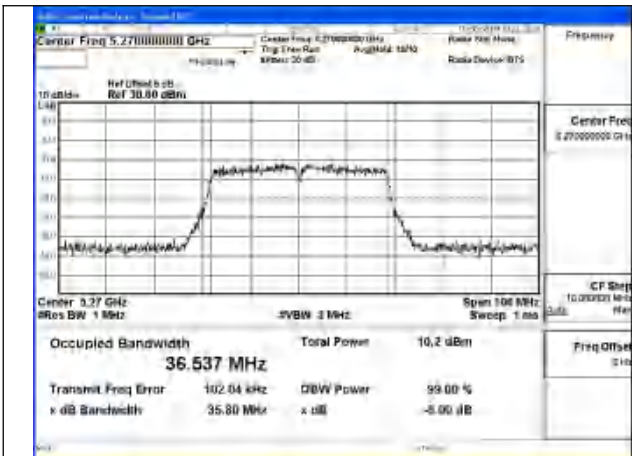


Mode:802.11n HT40 Frequency:5270MHz Ant:Chain0

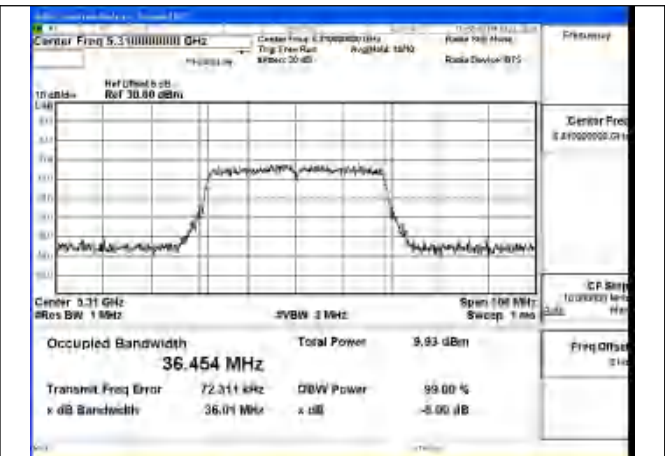


Mode:802.11n HT40 Frequency:5310MHz Ant:Chain0

Test Mode: 802.11ac VHT40

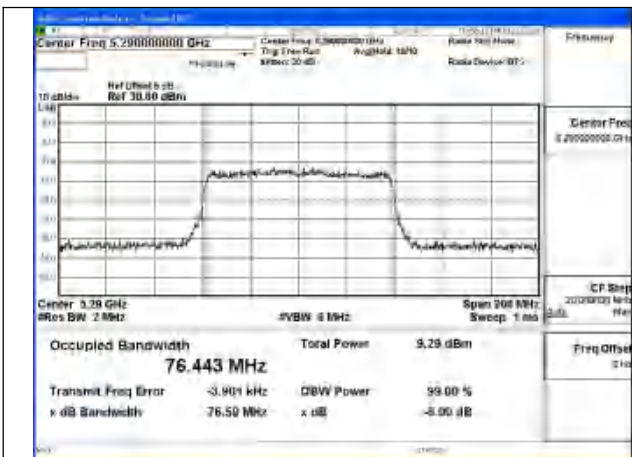


Mode:802.11ac VHT40 Frequency:5270MHz
 Ant:Chain0

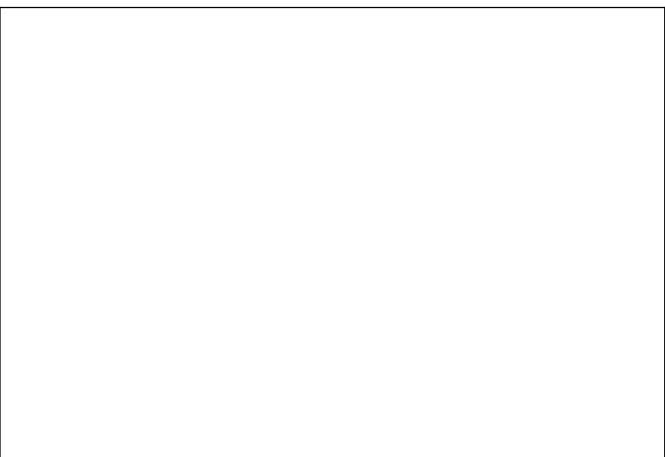


Mode:802.11ac VHT40 Frequency:5310MHz
 Ant:Chain0

Test Mode: 802.11ac VHT80



Mode:802.11ac VHT80 Frequency:5290MHz
 Ant:Chain0





Transmitter Power Spectral Density

Offset 8dB = Attenuator + Temporary antenna connector loss + Cable loss

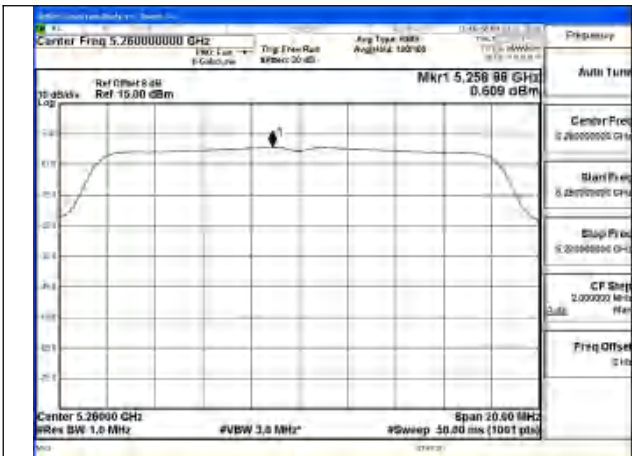
Test Mode	Antenna	Tones	5260MHz		5280MHz		5320MHz	
			Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11a	Chain0	NA	0	0.609	0	-0.294	0	-0.161
802.11n HT20	Chain0	NA	0	0.191	0	-0.578	0	-0.577
802.11ac VHT20	Chain0	NA	0	-3.994	0	-4.424	0	-4.331

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	-6.638	---	---	0	-7.289
802.11ac VHT40	Chain0	NA	0	-7.033	---	---	0	-7.192

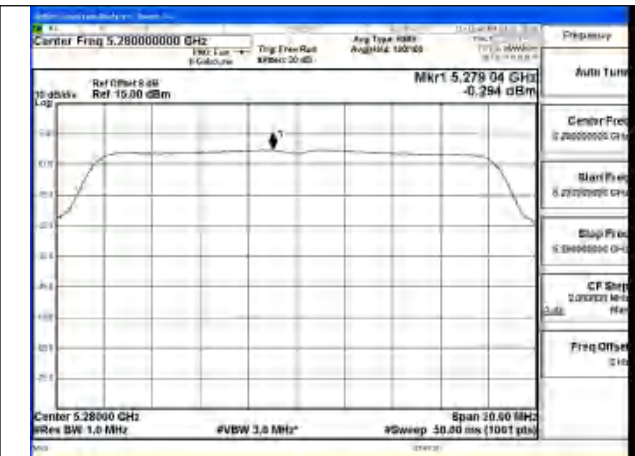
Test Mode	Antenna	Tones	5290MHz		---		---	
			Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11ac VHT80	Chain0	NA	0.14	-10.529	---	---	---	---



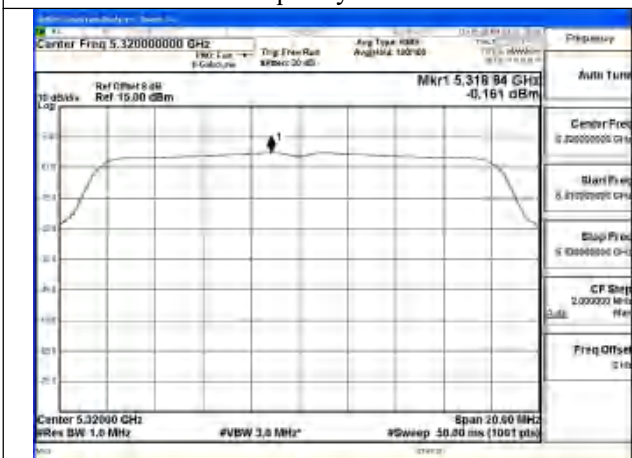
Test Mode: 802.11a



Mode:802.11a Frequency:5260MHz Ant:Chain0

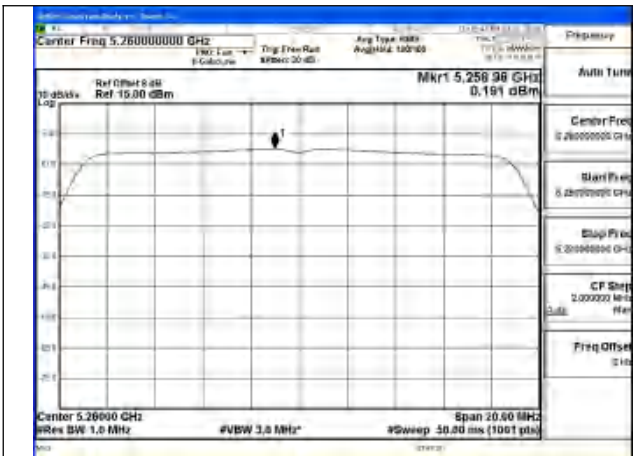


Mode:802.11a Frequency:5280MHz Ant:Chain0

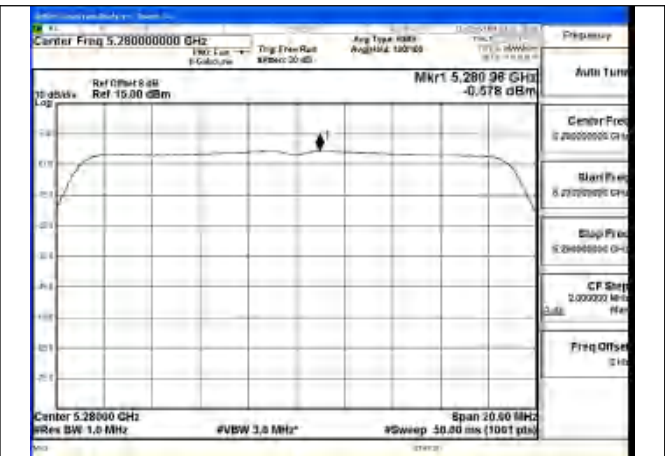


Mode:802.11a Frequency:5320MHz Ant:Chain0

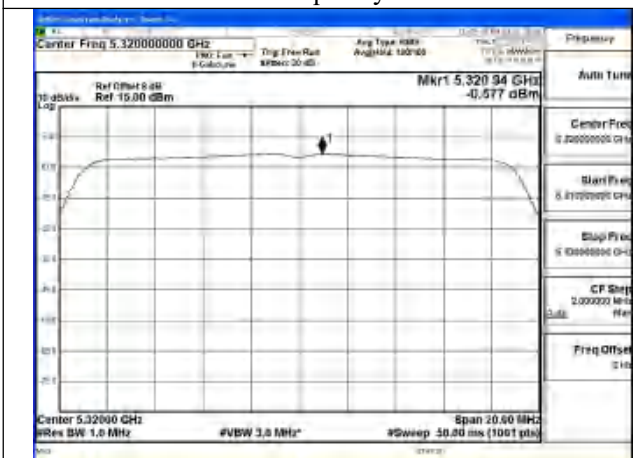
Test Mode: 802.11n HT20



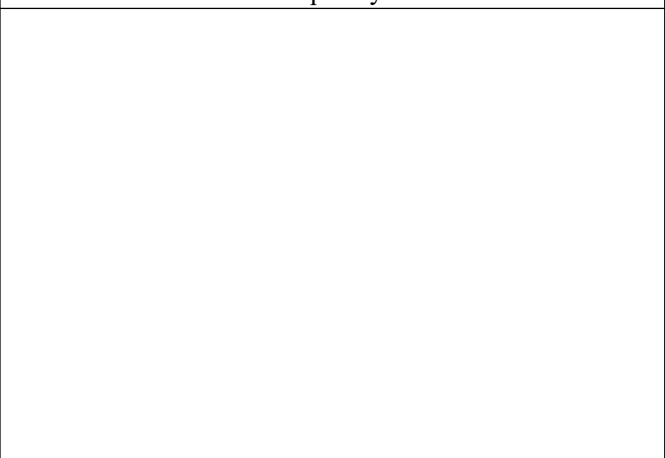
Mode:802.11n HT20 Frequency:5260MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5280MHz Ant:Chain0

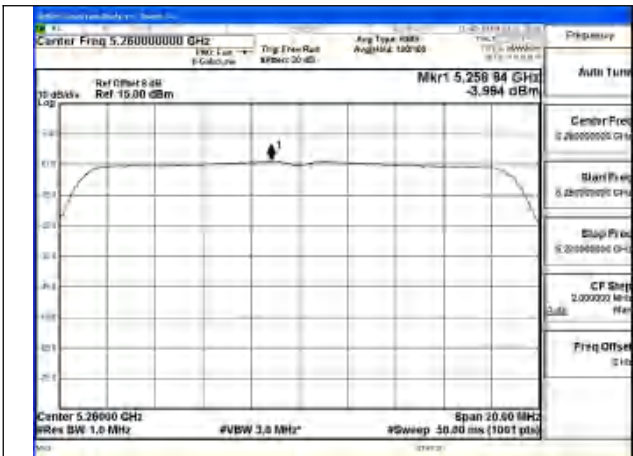


Mode:802.11n HT20 Frequency:5320MHz Ant:Chain0

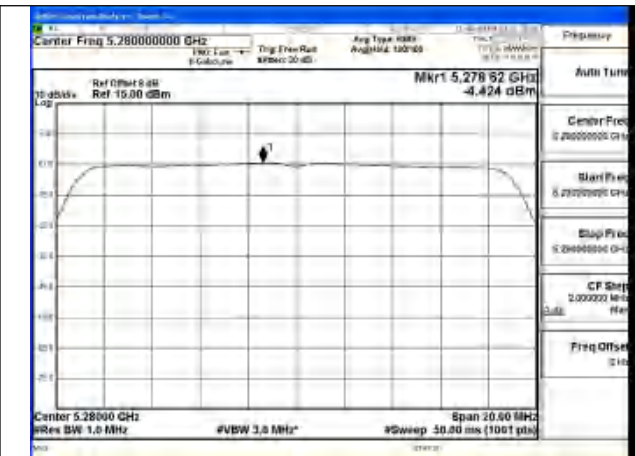




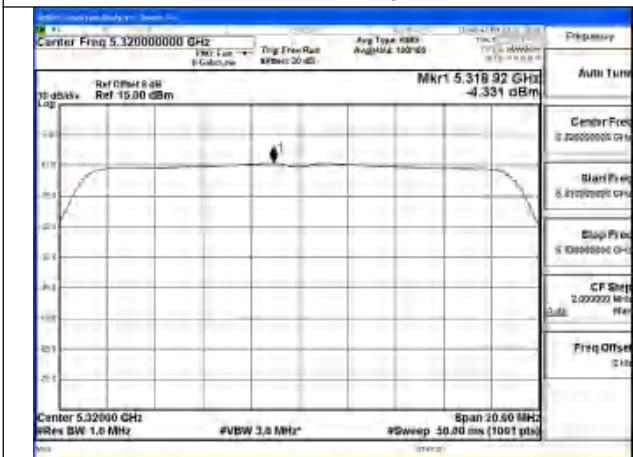
Test Mode: 802.11ac VHT20



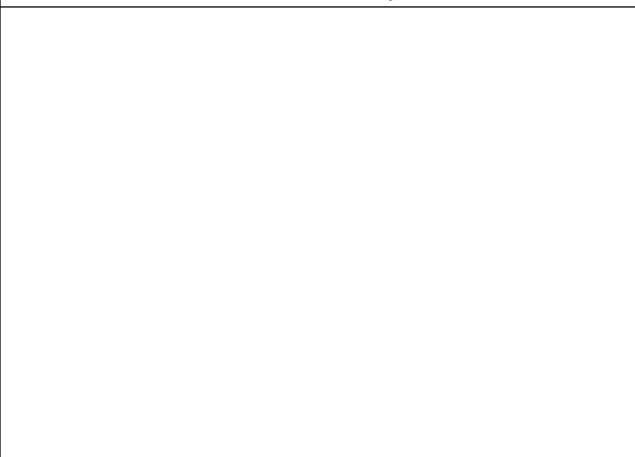
Mode:802.11ac VHT20 Frequency:5260MHz
Ant:Chain0



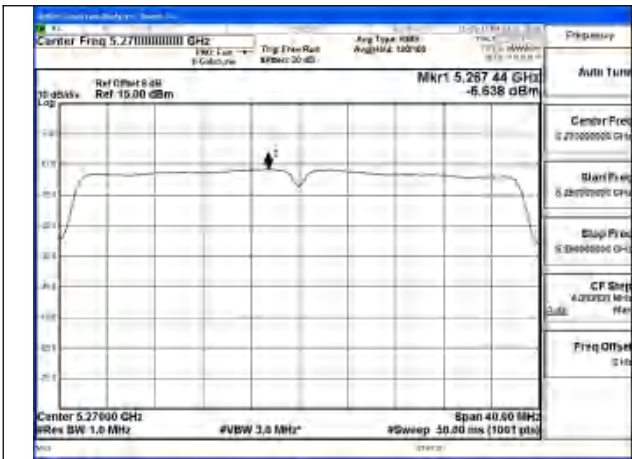
Mode:802.11ac VHT20 Frequency:5280MHz
Ant:Chain0



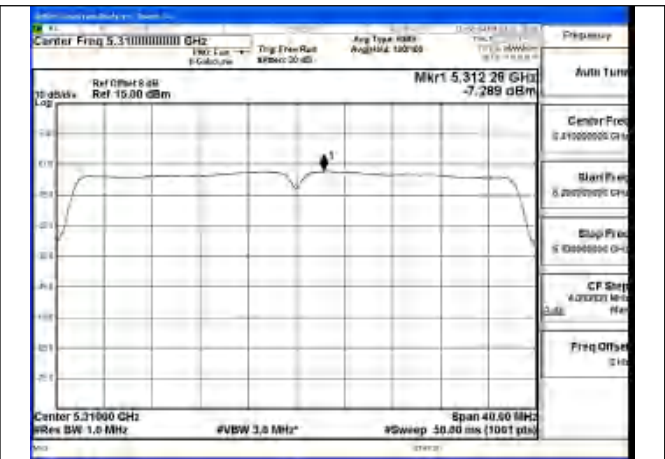
Mode:802.11ac VHT20 Frequency:5320MHz
Ant:Chain0



Test Mode: 802.11n HT40

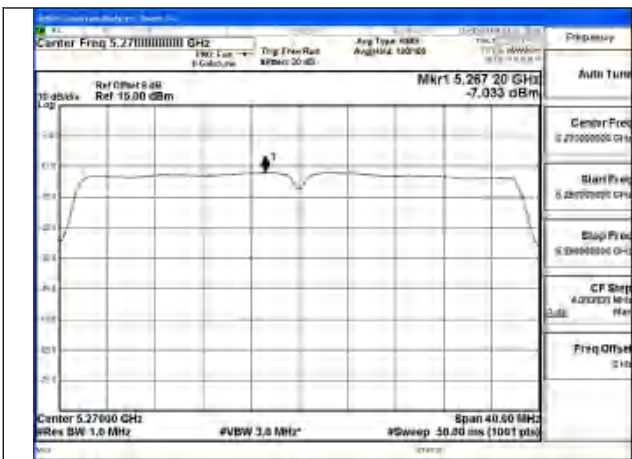


Mode:802.11n HT40 Frequency:5270MHz Ant:Chain0

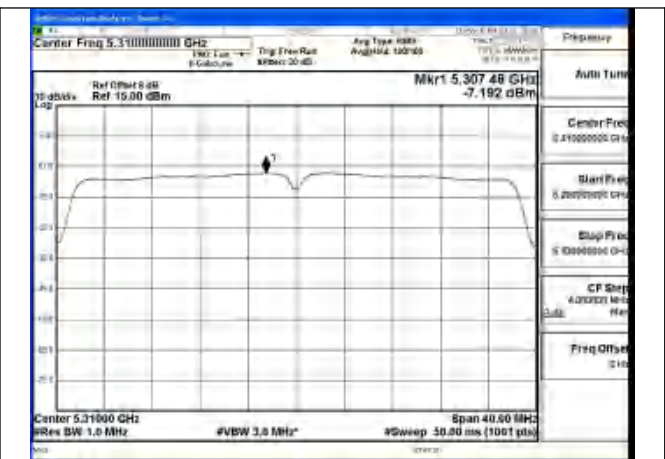


Mode:802.11n HT40 Frequency:5310MHz Ant:Chain0

Test Mode: 802.11ac VHT40

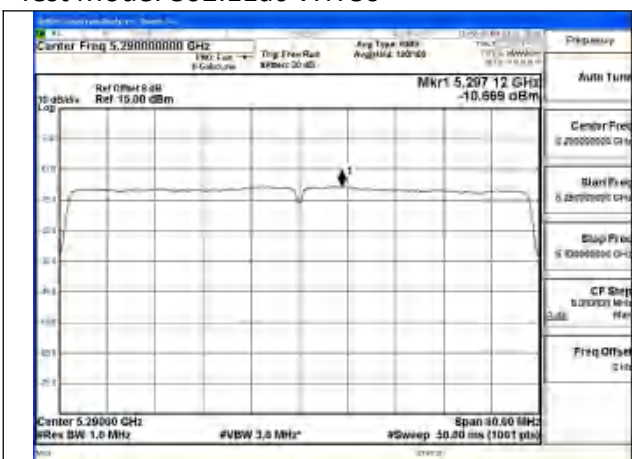


Mode:802.11ac VHT40 Frequency:5270MHz
 Ant:Chain0



Mode:802.11ac VHT40 Frequency:5310MHz
 Ant:Chain0

Test Mode: 802.11ac VHT80



Mode:802.11ac VHT80 Frequency:5290MHz
 Ant:Chain0