

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5260	98.39%	0	Fig.1
802.11a	5260	98.25%	0	Fig.2
802.11n HT20	5260	98.07%	0	Fig.3
802.11n HT20	5260	98.03%	0	Fig.4
802.11ac VHT20	5260	97.96%	0.09	Fig.5
802.11ac VHT20	5260	98.15%	0	Fig.6
802.11n HT40	5270	96.94%	0.13	Fig.7
802.11n HT40	5270	97.25%	0.12	Fig.8
802.11ac VHT40	5270	97.08%	0.13	Fig.9
802.11ac VHT40	5270	97.07%	0.13	Fig.10
802.11ac VHT80	5290	95.89%	0.18	Fig.11
802.11ac VHT80	5290	96.02%	0.18	Fig.12

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

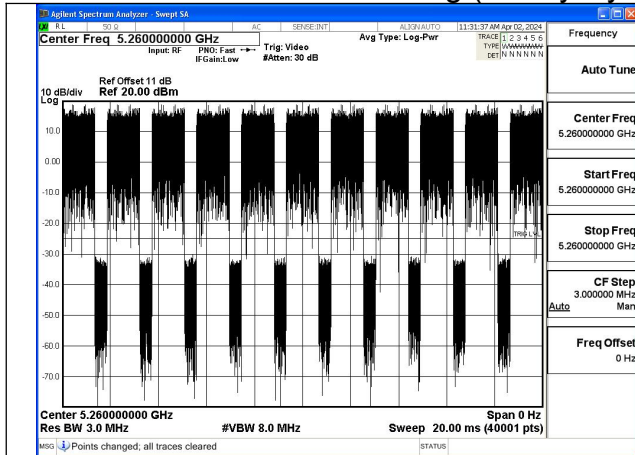


Fig.1

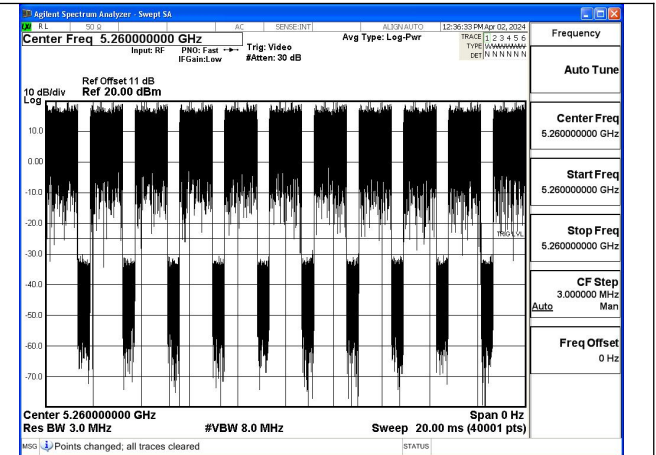


Fig.2

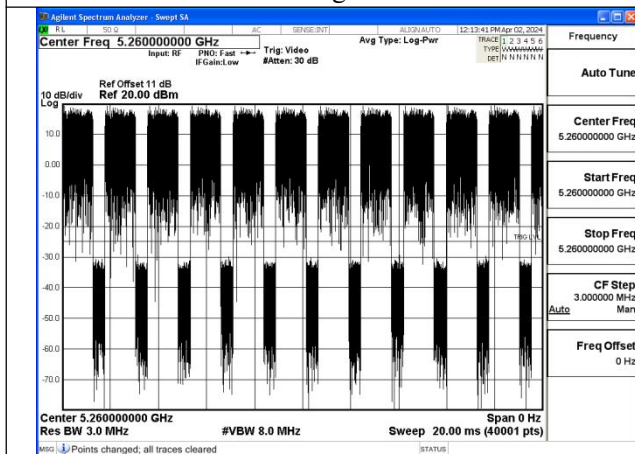


Fig.3

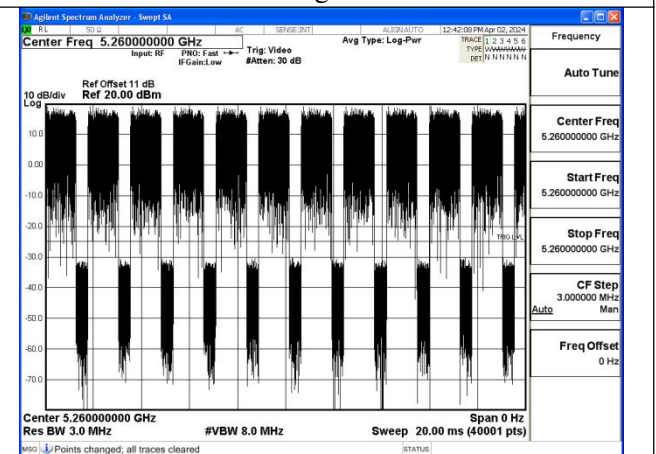


Fig.4

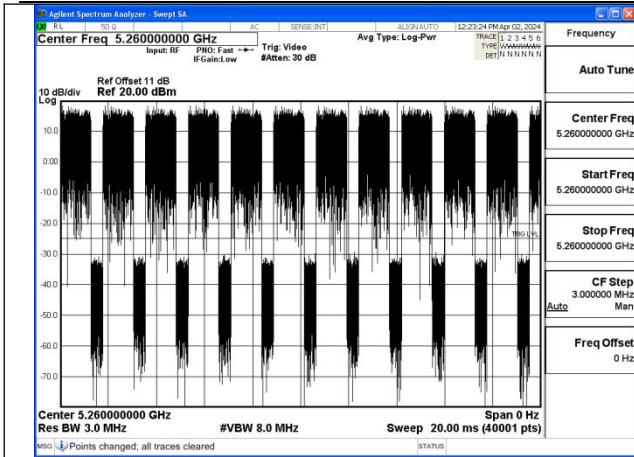


Fig.5

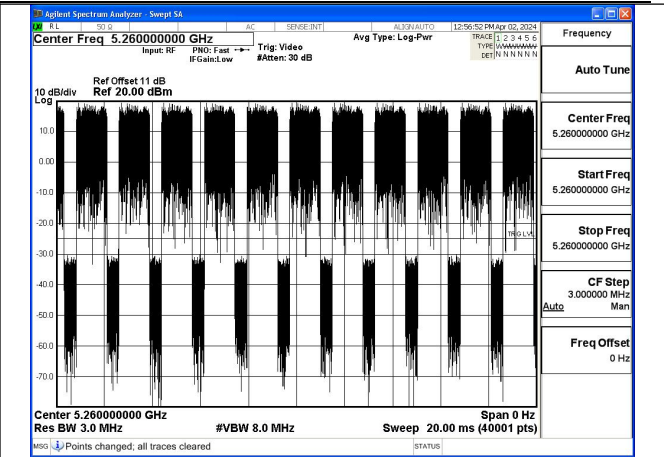


Fig.6

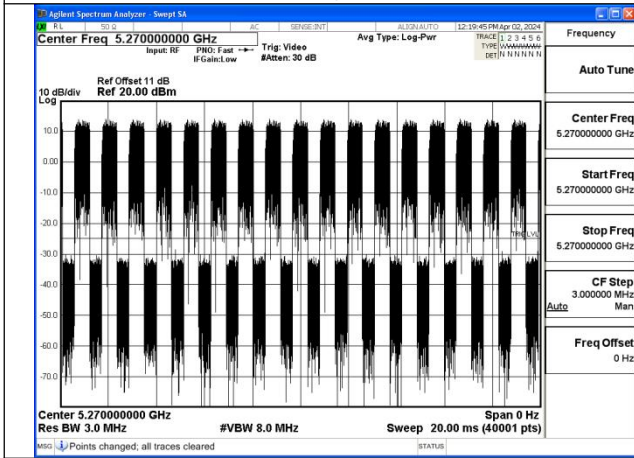


Fig.7

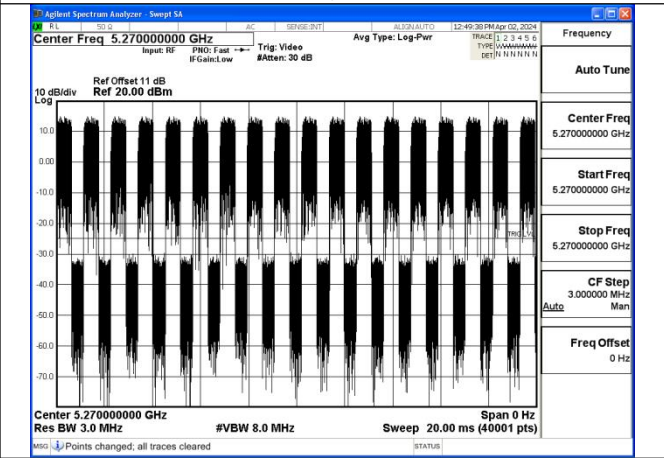


Fig.8

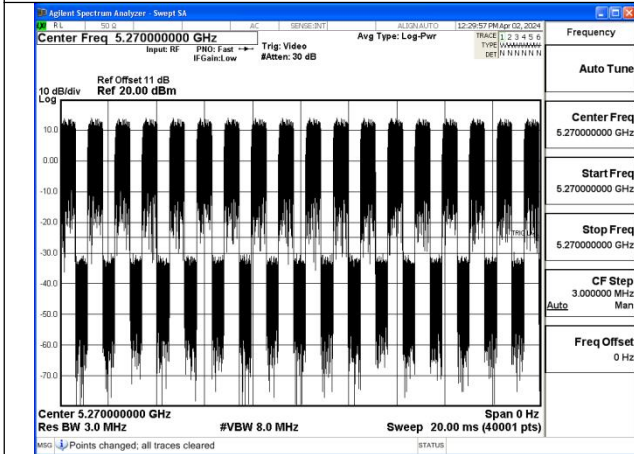


Fig.9

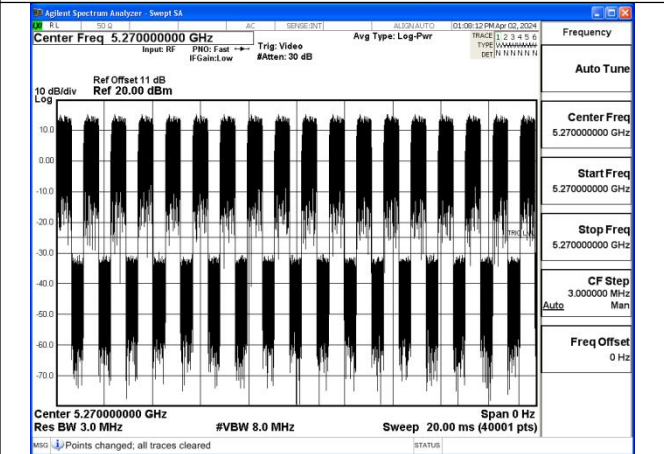


Fig.10

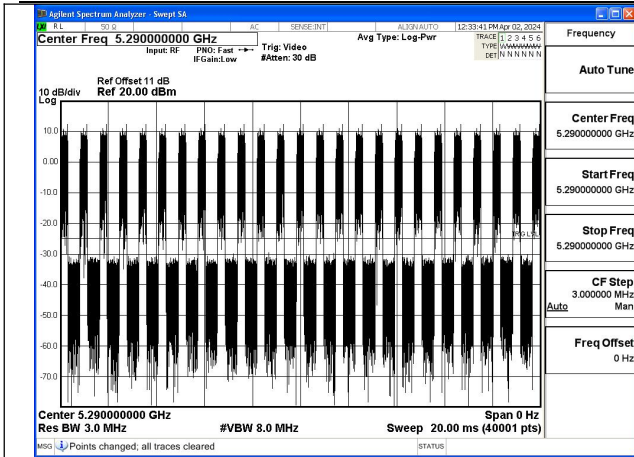


Fig.11

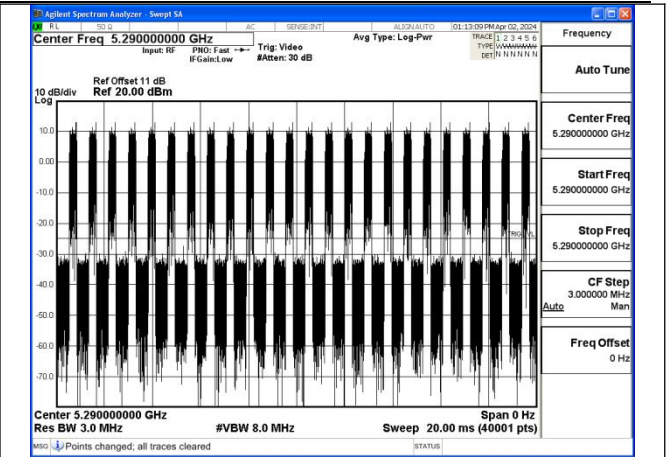


Fig.12

Output Power

Mode	Tones/ RUIndex	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5260	Chain0	13.86	15.67
802.11a	NA	5260	Chain1	14.96	16.77
802.11a	NA	5280	Chain0	13.91	15.72
802.11a	NA	5280	Chain1	14.63	16.44
802.11a	NA	5320	Chain0	14.40	16.21
802.11a	NA	5320	Chain1	15.08	16.89
802.11n HT20	NA	5260	Chain0	14.75	16.56
802.11n HT20	NA	5260	Chain1	14.89	16.70
802.11n HT20	NA	5260	MIMO	17.83	19.64
802.11n HT20	NA	5280	Chain0	14.02	15.83
802.11n HT20	NA	5280	Chain1	14.63	16.44
802.11n HT20	NA	5280	MIMO	17.35	19.16
802.11n HT20	NA	5320	Chain0	14.36	16.17
802.11n HT20	NA	5320	Chain1	14.78	16.59
802.11n HT20	NA	5320	MIMO	17.59	19.40
802.11ac VHT20	NA	5260	Chain0	13.45	15.26
802.11ac VHT20	NA	5260	Chain1	14.39	16.20
802.11ac VHT20	NA	5260	MIMO	16.96	18.77
802.11ac VHT20	NA	5280	Chain0	13.80	15.61
802.11ac VHT20	NA	5280	Chain1	14.82	16.63
802.11ac VHT20	NA	5280	MIMO	17.35	19.16
802.11ac VHT20	NA	5320	Chain0	13.61	15.42
802.11ac VHT20	NA	5320	Chain1	14.20	16.01
802.11ac VHT20	NA	5320	MIMO	16.93	18.74
802.11n HT40	NA	5270	Chain0	13.12	14.93
802.11n HT40	NA	5270	Chain1	13.55	15.36
802.11n HT40	NA	5270	MIMO	16.35	18.16
802.11n HT40	NA	5310	Chain0	12.85	14.66
802.11n HT40	NA	5310	Chain1	13.49	15.30
802.11n HT40	NA	5310	MIMO	16.19	18.00
802.11ac VHT40	NA	5270	Chain0	13.02	14.83
802.11ac VHT40	NA	5270	Chain1	13.74	15.55
802.11ac VHT40	NA	5270	MIMO	16.41	18.22
802.11ac VHT40	NA	5310	Chain0	13.35	15.16
802.11ac VHT40	NA	5310	Chain1	13.89	15.70
802.11ac VHT40	NA	5310	MIMO	16.64	18.45
802.11ac VHT80	NA	5290	Chain0	11.72	13.53
802.11ac VHT80	NA	5290	Chain1	12.25	14.06
802.11ac VHT80	NA	5290	MIMO	15.00	16.81

Emission Bandwidth

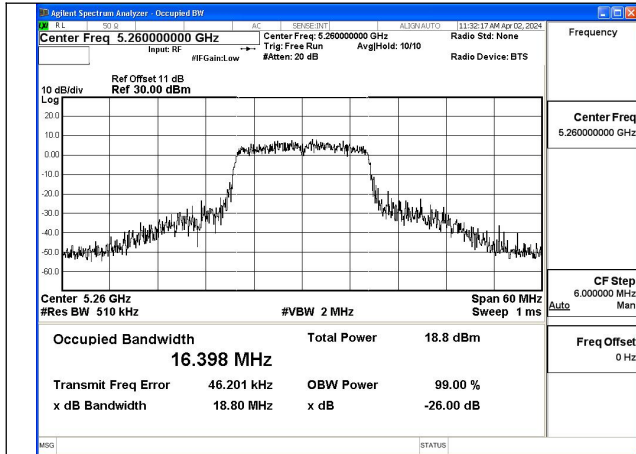
Offset 21dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5260MHz	5280MHz	5320MHz
802.11a	Chain0	18.80	18.56	18.54
802.11a	Chain1	18.52	18.32	18.13
802.11n HT20	Chain0	19.56	19.33	19.67
802.11n HT20	Chain1	19.28	19.72	19.25
802.11ac VHT20	Chain0	19.51	19.48	19.39
802.11ac VHT20	Chain1	19.31	19.20	19.32

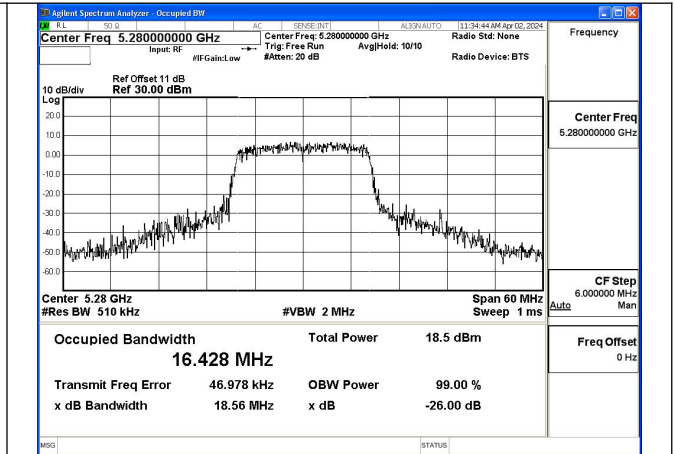
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5270MHz	---	5310MHz
802.11n HT40	Chain0	40.83	---	38.93
802.11n HT40	Chain1	38.86	---	38.71
802.11ac VHT40	Chain0	43.10	---	38.71
802.11ac VHT40	Chain1	39.17	---	38.79

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5290MHz	---	---
802.11ac VHT80	Chain0	80.56	---	---
802.11ac VHT80	Chain1	80.44	---	---

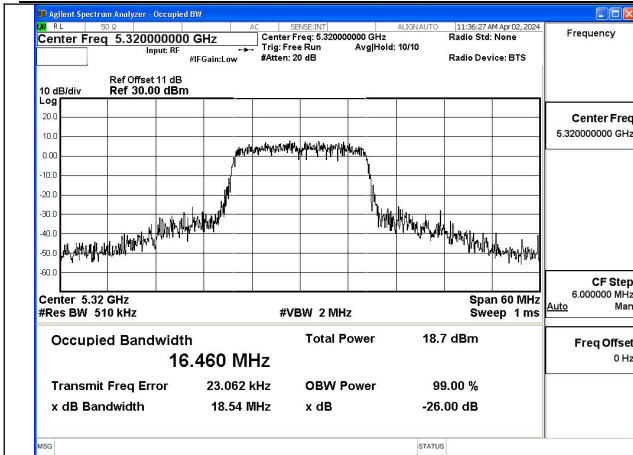
Test Mode: 802.11a



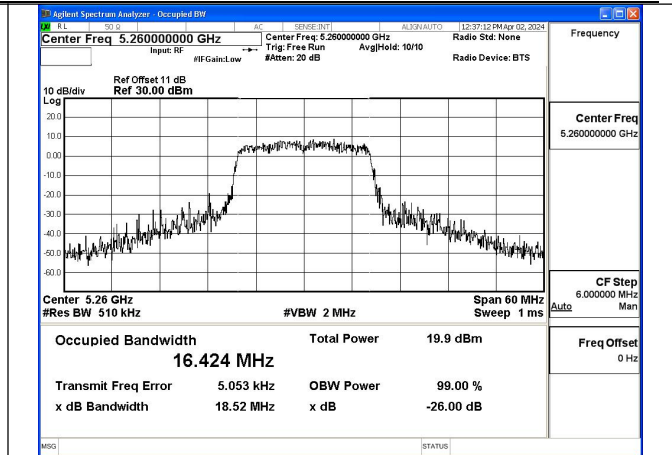
Mode:802.11a Frequency:5260MHz Ant:Chain0



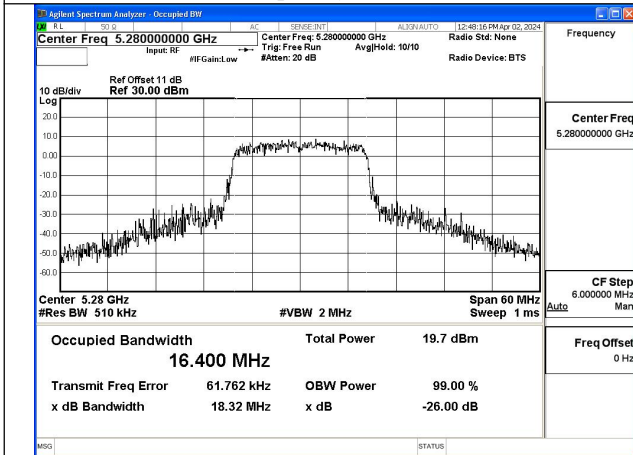
Mode:802.11a Frequency:5280MHz Ant:Chain0



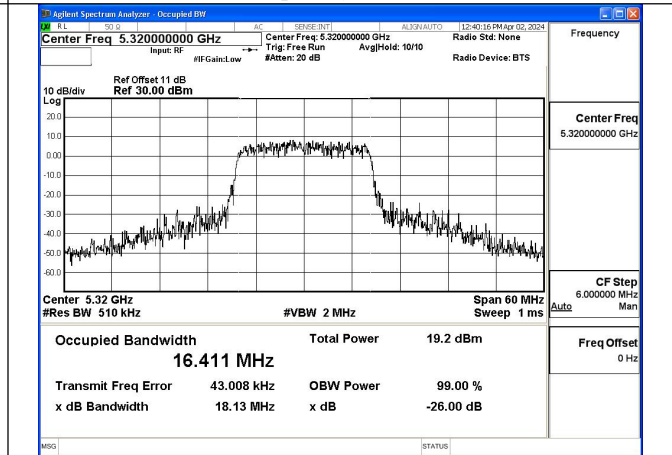
Mode:802.11a Frequency:5320MHz Ant:Chain0



Mode:802.11a Frequency:5260MHz Ant:Chain1

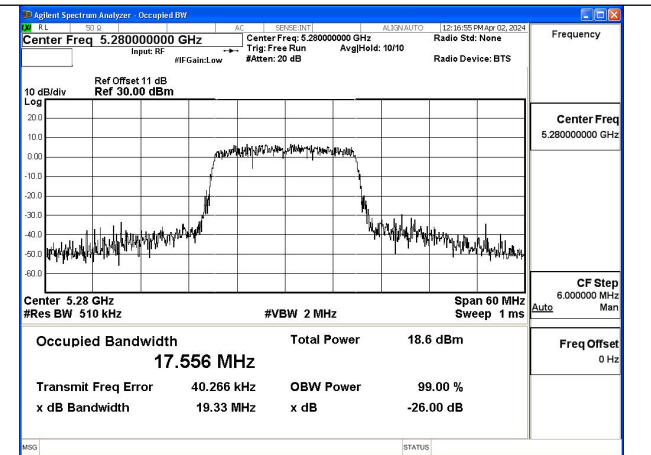
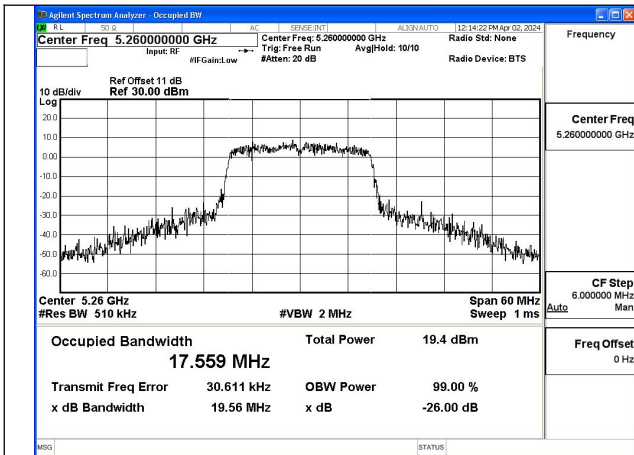


Mode:802.11a Frequency:5280MHz Ant:Chain1



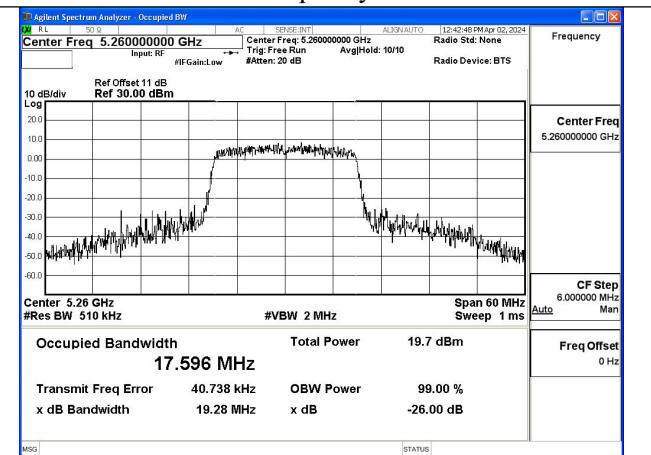
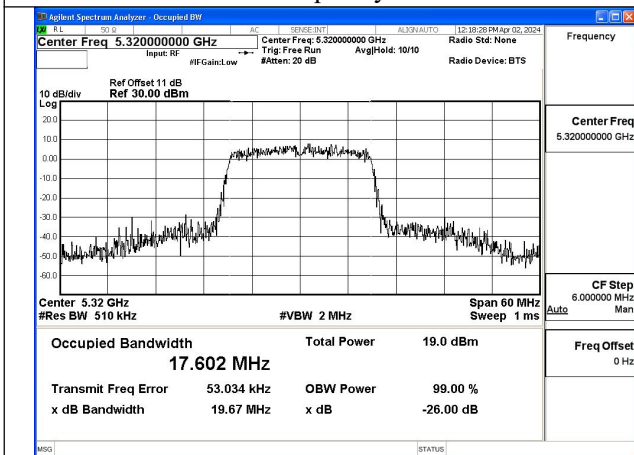
Mode:802.11a Frequency:5320MHz Ant:Chain1

Test Mode: 802.11n HT20



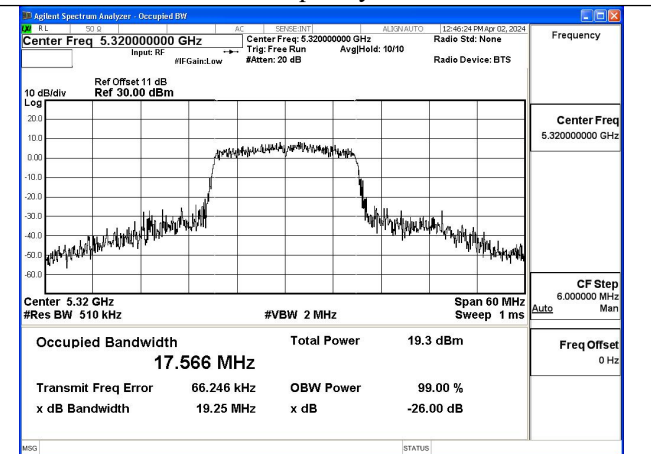
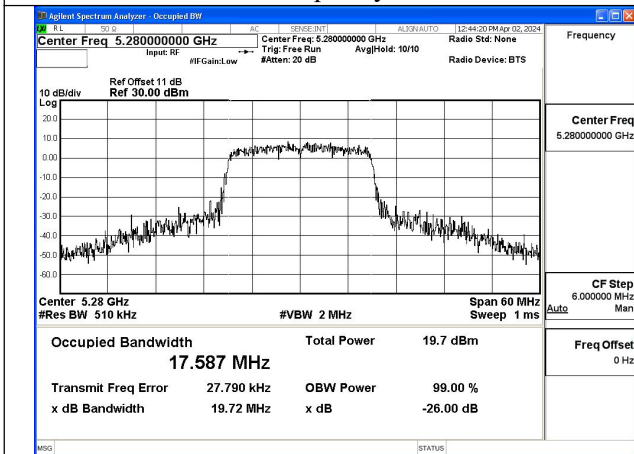
Mode:802.11n HT20 Frequency:5260MHz Ant:Chain0

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



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

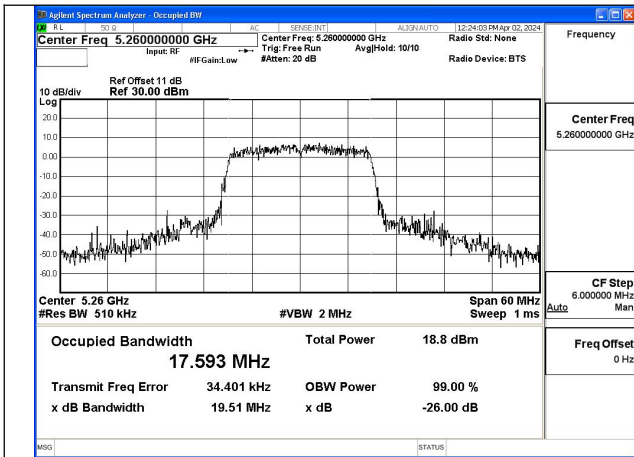
Mode:802.11n HT20 Frequency:5260MHz Ant:Chain1



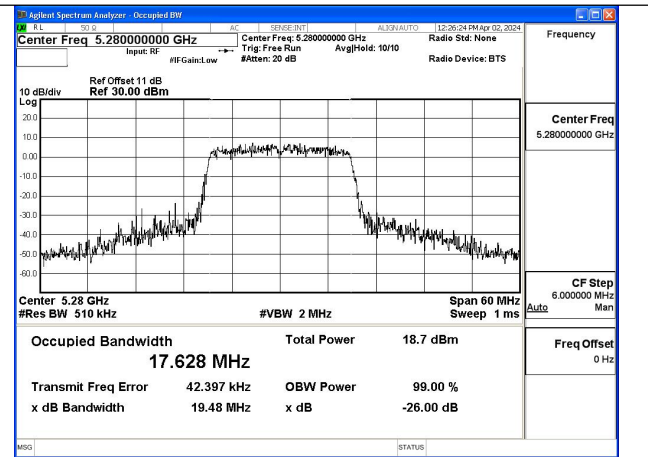
Mode:802.11n HT20 Frequency:5280MHz Ant:Chain1

Mode:802.11n HT20 Frequency:5320MHz Ant:Chain1

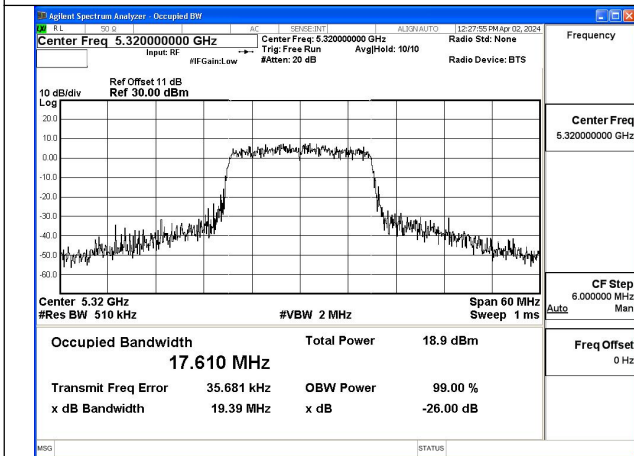
Test Mode: 802.11ac VHT20



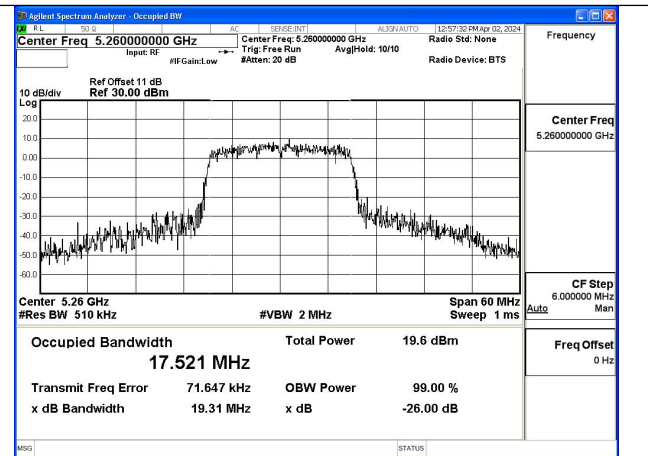
Mode:802.11ac VHT20 Frequency:5260MHz
Ant:Chain0



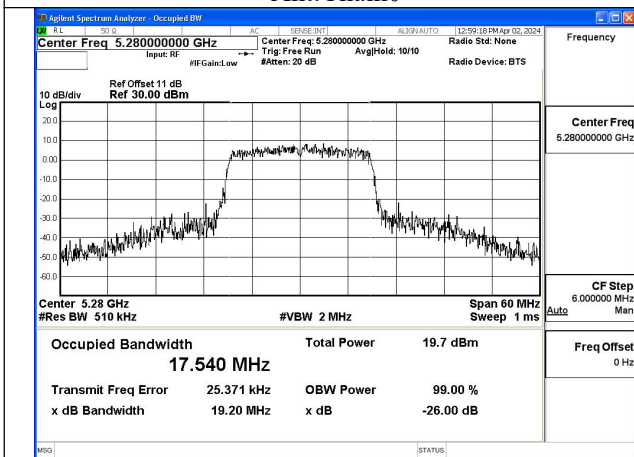
Mode:802.11ac VHT20 Frequency:5280MHz
Ant:Chain0



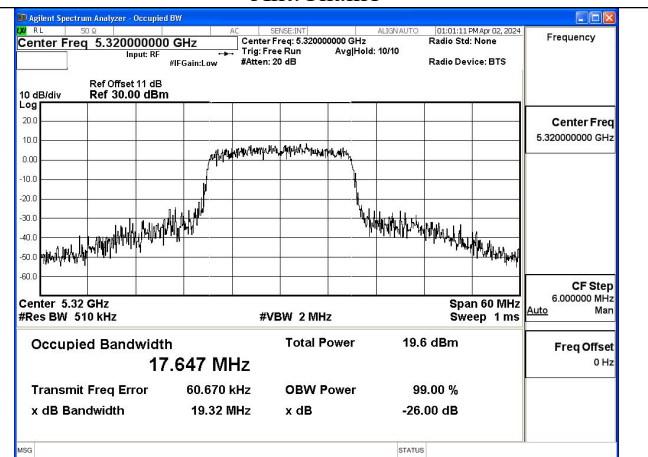
Mode:802.11ac VHT20 Frequency:5320MHz
Ant:Chain0



Mode:802.11ac VHT20 Frequency:5260MHz
Ant:Chain1

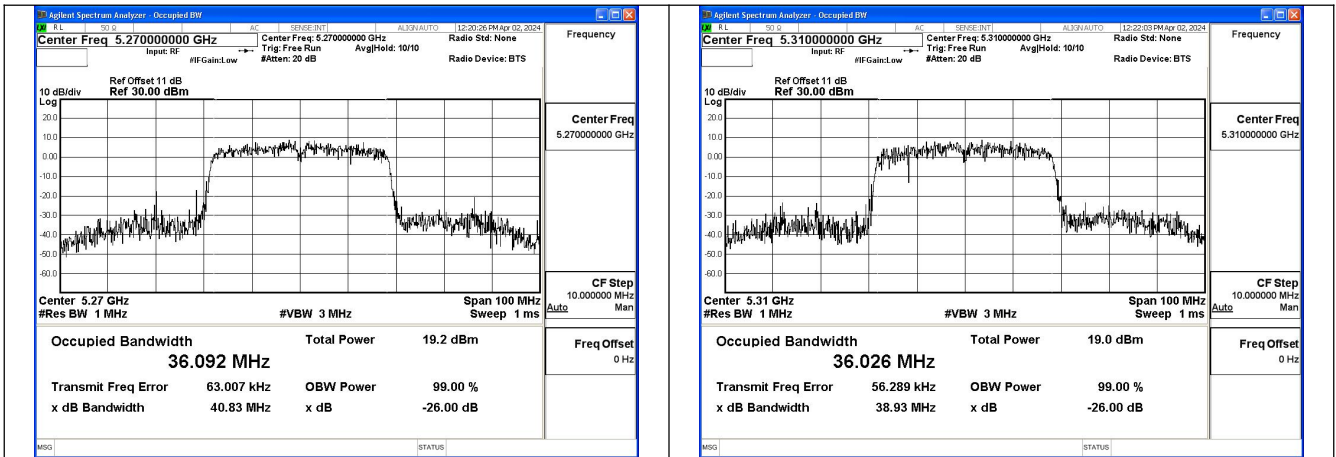


Mode:802.11ac VHT20 Frequency:5280MHz
Ant:Chain1



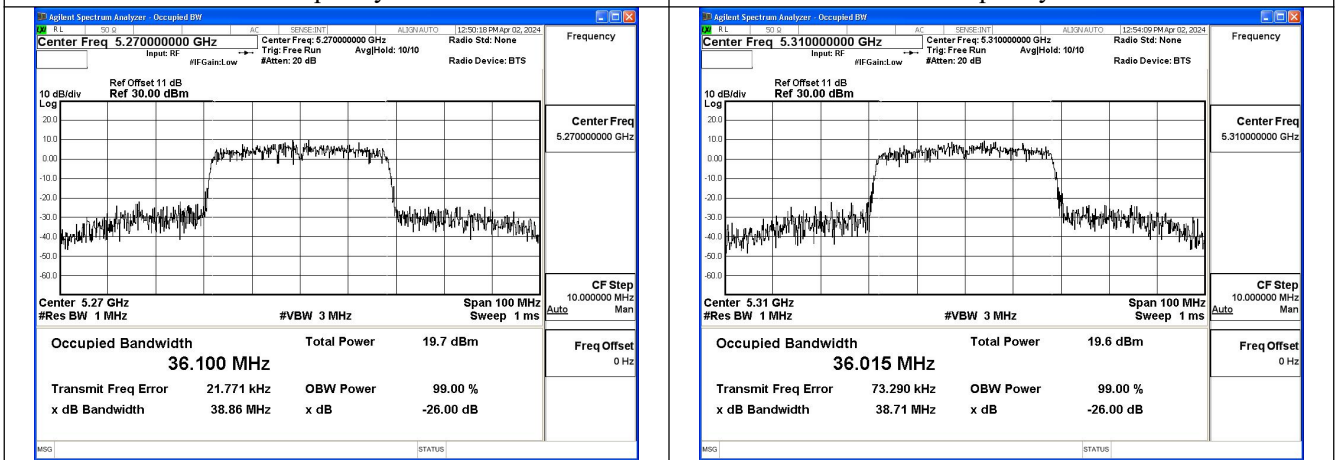
Mode:802.11ac VHT20 Frequency:5320MHz
Ant:Chain1

Test Mode: 802.11n HT40



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

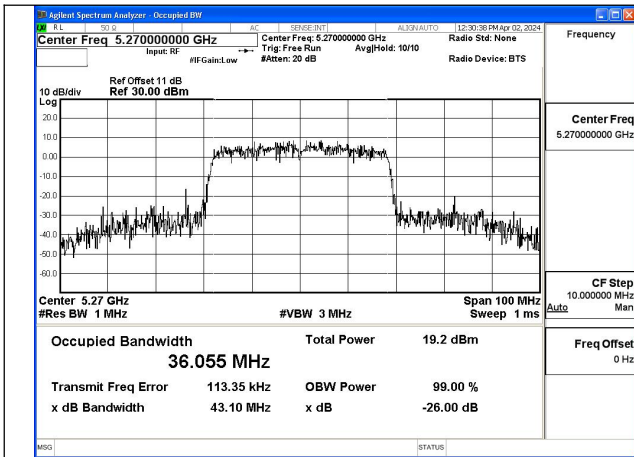
Mode:802.11n HT40 Frequency:5310MHz Ant:Chain0



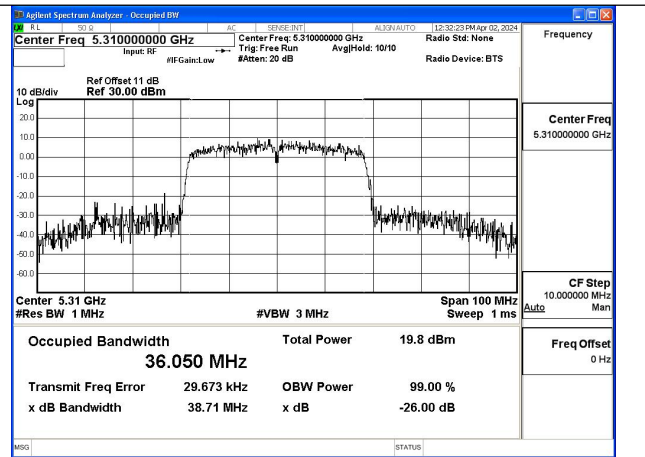
Mode:802.11n HT40 Frequency:5270MHz Ant:Chain1

Mode:802.11n HT40 Frequency:5310MHz Ant:Chain1

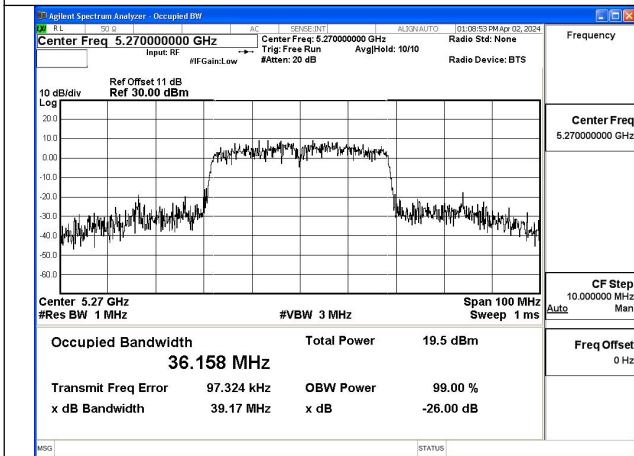
Test Mode: 802.11ac VHT40



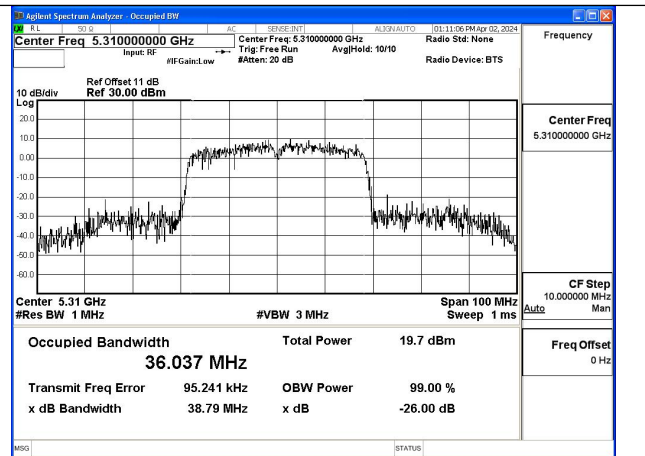
Mode:802.11ac VHT40 Frequency:5270MHz
Ant:Chain0



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

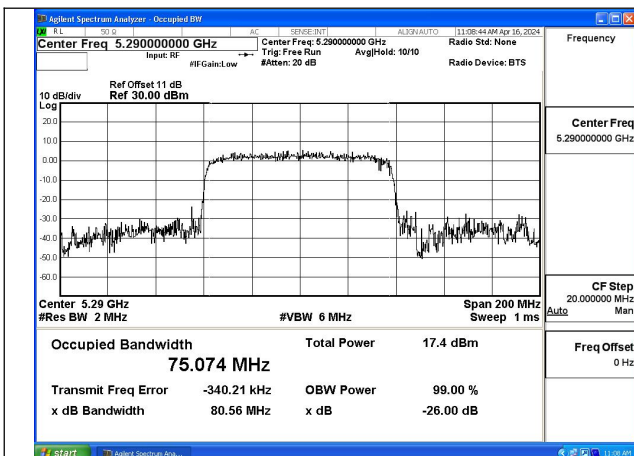


Mode:802.11ac VHT40 Frequency:5270MHz
Ant:Chain1

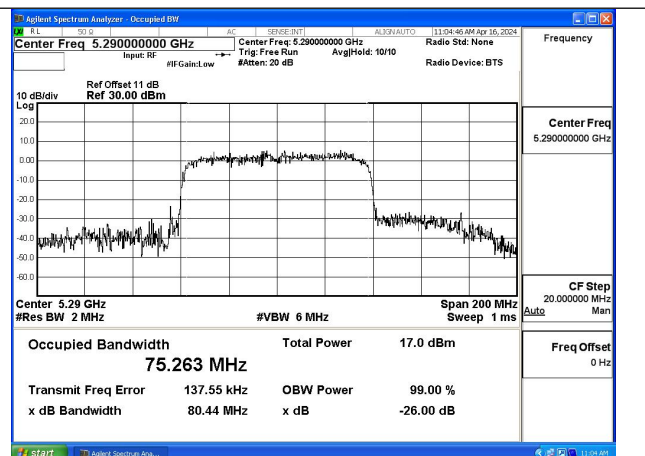


Mode:802.11ac VHT40 Frequency:5310MHz
Ant:Chain1

Test Mode: 802.11ac VHT80



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



Mode:802.11ac VHT80 Frequency:5290MHz
Ant:Chain1

Occupied Bandwidth

Offset 21dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5260MHz	5280MHz	5320MHz
802.11a	Chain0	16.398	16.400	16.431
802.11a	Chain1	16.536	16.393	16.434
802.11n HT20	Chain0	17.684	17.585	17.553
802.11n HT20	Chain1	17.549	17.587	17.598
802.11ac VHT20	Chain0	17.612	17.584	17.580
802.11ac VHT20	Chain1	17.602	17.555	17.601

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5270MHz	---	5310MHz
802.11n HT40	Chain0	36.133	---	36.156
802.11n HT40	Chain1	36.177	---	36.009
802.11ac VHT40	Chain0	36.020	---	36.057
802.11ac VHT40	Chain1	36.105	---	36.036

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5290MHz	---	---
802.11ac VHT80	Chain0	75.346	---	---
802.11ac VHT80	Chain1	75.189	---	---

Test Mode: 802.11a

