

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5180	99.30%	0	Fig.1
802.11a	5180	99.33%	0	Fig.2
802.11n HT20	5180	99.26%	0	Fig.3
802.11n HT20	5180	99.28%	0	Fig.4
802.11ac VHT20	5180	99.21%	0	Fig.5
802.11ac VHT20	5180	99.24%	0	Fig.6
802.11n HT40	5190	98.82%	0	Fig.7
802.11n HT40	5190	98.86%	0	Fig.8
802.11ac VHT40	5190	98.82%	0	Fig.9
802.11ac VHT40	5190	98.68%	0	Fig.10
802.11ac VHT80	5210	98.45%	0	Fig.11
802.11ac VHT80	5210	98.27%	0	Fig.12

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

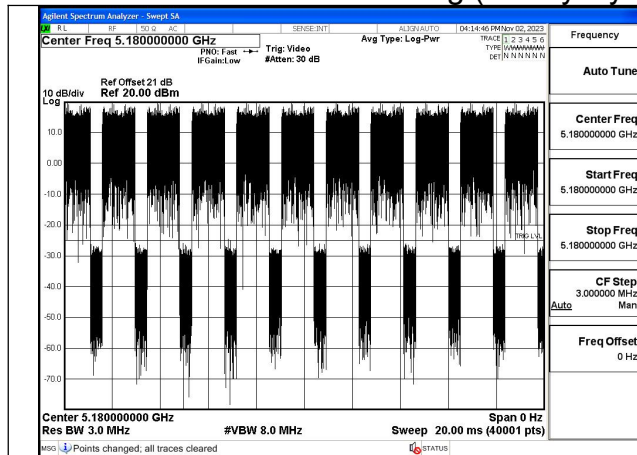


Fig.1

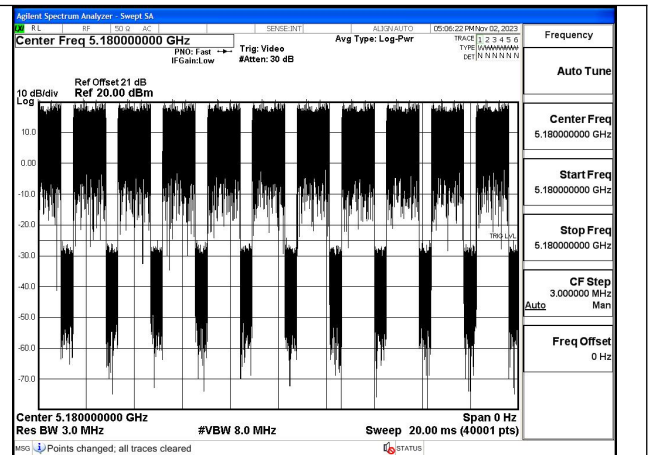


Fig.2

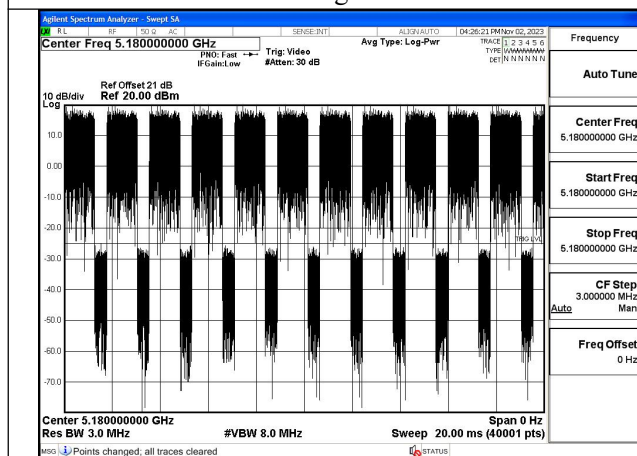


Fig.3

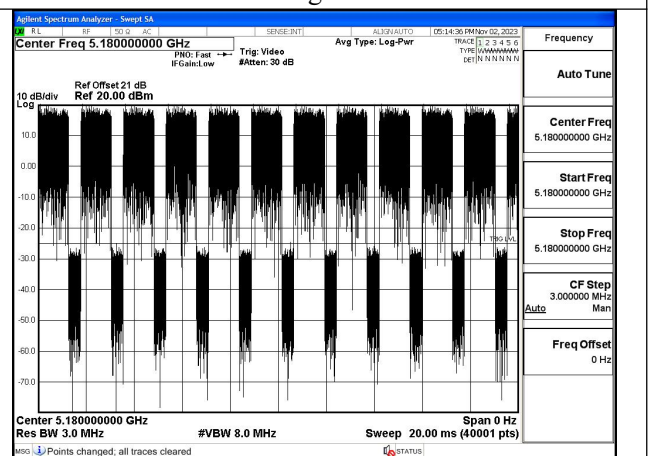


Fig.4

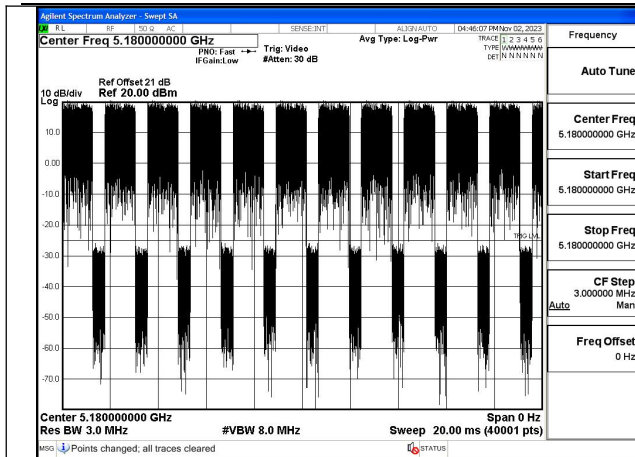


Fig.5

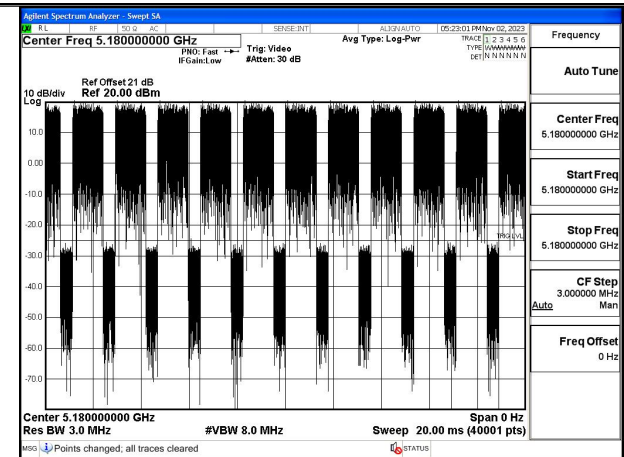


Fig.6

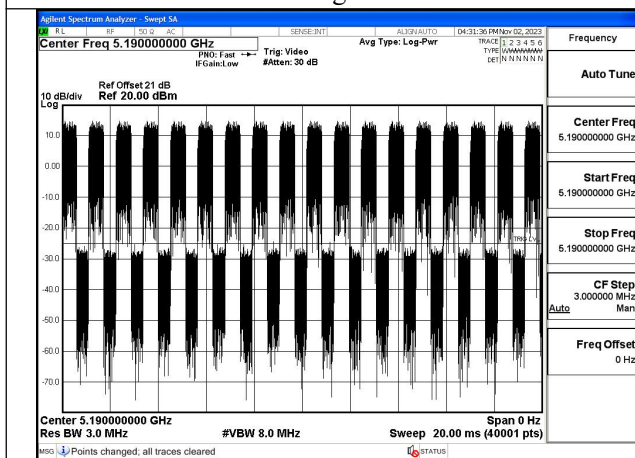


Fig.7

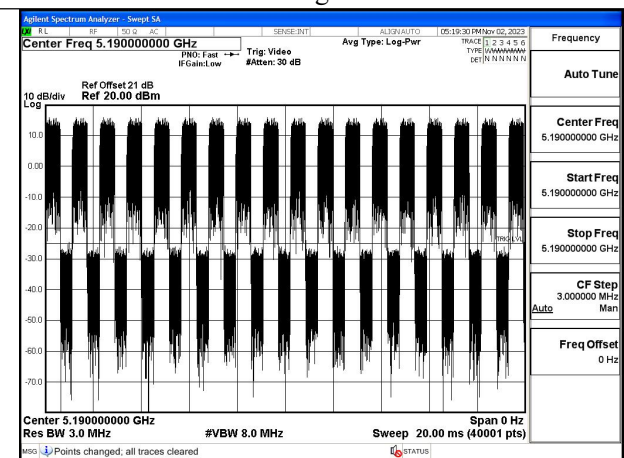


Fig.8

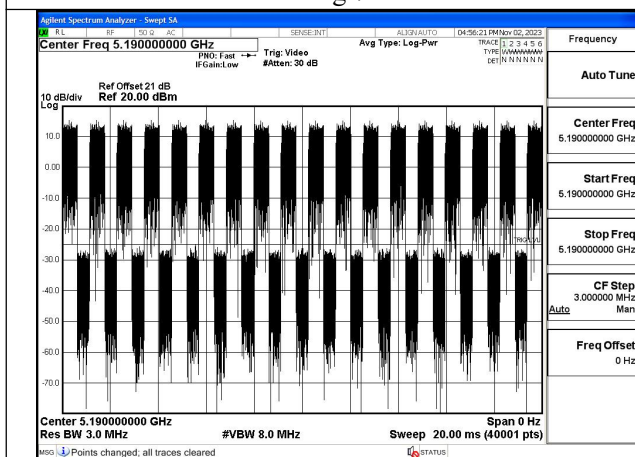


Fig.9

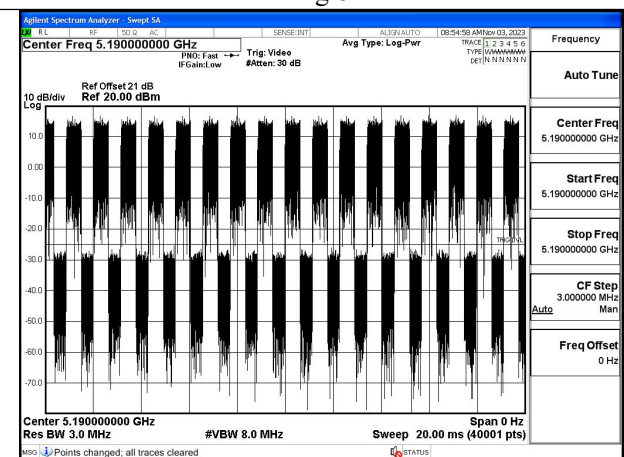


Fig.10

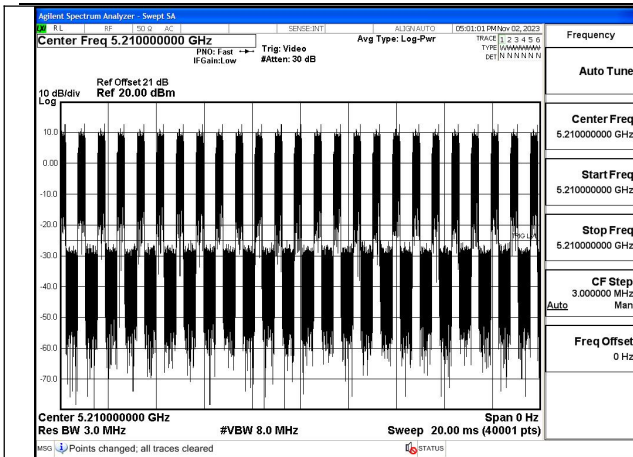


Fig.11

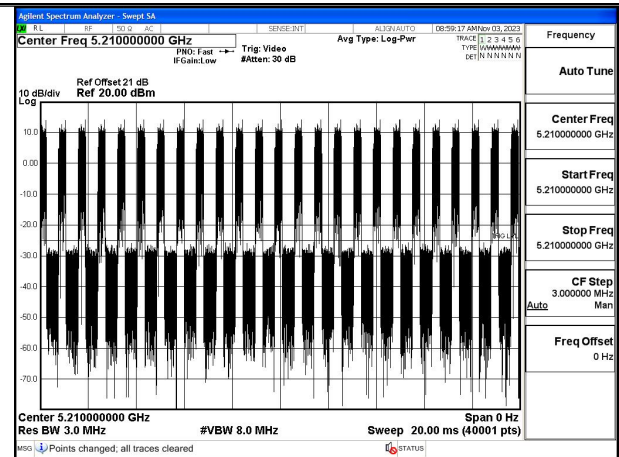


Fig.12

Output Power

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5180	Chain0	15.53	18.51
802.11a	NA	5180	Chain1	16.65	19.00
802.11a	NA	5220	Chain0	15.49	18.47
802.11a	NA	5220	Chain1	16.58	18.93
802.11a	NA	5240	Chain0	15.44	18.42
802.11a	NA	5240	Chain1	16.42	18.77
802.11n HT20	NA	5180	Chain0	15.75	18.73
802.11n HT20	NA	5180	Chain1	16.48	18.83
802.11n HT20	NA	5180	MIMO	19.14	21.82
802.11n HT20	NA	5220	Chain0	15.66	18.64
802.11n HT20	NA	5220	Chain1	16.34	18.69
802.11n HT20	NA	5220	MIMO	19.02	21.70
802.11n HT20	NA	5240	Chain0	16.81	19.79
802.11n HT20	NA	5240	Chain1	16.35	18.70
802.11n HT20	NA	5240	MIMO	19.60	22.28
802.11ac VHT20	NA	5180	Chain0	17.21	20.19
802.11ac VHT20	NA	5180	Chain1	16.58	18.93
802.11ac VHT20	NA	5180	MIMO	19.92	22.60
802.11ac VHT20	NA	5220	Chain0	15.21	18.19
802.11ac VHT20	NA	5220	Chain1	16.39	18.74
802.11ac VHT20	NA	5220	MIMO	18.85	21.53
802.11ac VHT20	NA	5240	Chain0	15.26	18.24
802.11ac VHT20	NA	5240	Chain1	16.36	18.71
802.11ac VHT20	NA	5240	MIMO	18.86	21.54
802.11n HT40	NA	5190	Chain0	14.18	17.16
802.11n HT40	NA	5190	Chain1	15.23	17.58
802.11n HT40	NA	5190	MIMO	17.75	20.43
802.11n HT40	NA	5230	Chain0	14.17	17.15
802.11n HT40	NA	5230	Chain1	15.23	17.58
802.11n HT40	NA	5230	MIMO	17.74	20.42
802.11ac VHT40	NA	5190	Chain0	14.36	17.34
802.11ac VHT40	NA	5190	Chain1	15.51	17.86
802.11ac VHT40	NA	5190	MIMO	17.98	20.66
802.11ac VHT40	NA	5230	Chain0	14.33	17.31
802.11ac VHT40	NA	5230	Chain1	15.43	17.78
802.11ac VHT40	NA	5230	MIMO	17.93	20.61
802.11ac VHT80	NA	5210	Chain0	12.78	15.76
802.11ac VHT80	NA	5210	Chain1	14.28	16.63
802.11ac VHT80	NA	5210	MIMO	16.60	19.28

Emission Bandwidth

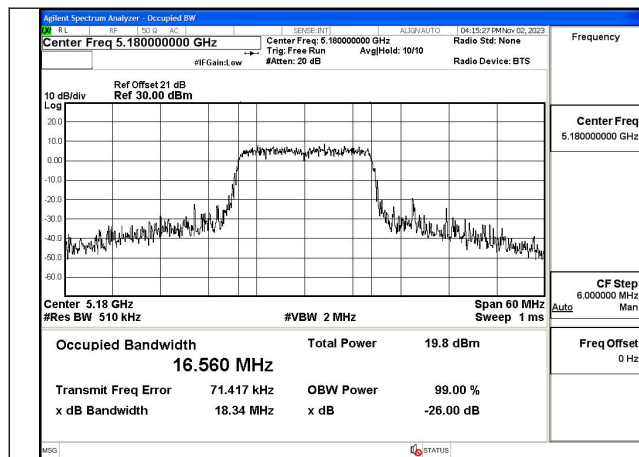
Offset 21dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	18.34	19.85	18.81
802.11a	Chain1	18.26	18.95	19.22
802.11n HT20	Chain0	19.18	19.55	25.04
802.11n HT20	Chain1	19.85	20.40	22.28
802.11ac VHT20	Chain0	23.05	22.64	19.76
802.11ac VHT20	Chain1	19.15	23.20	19.44

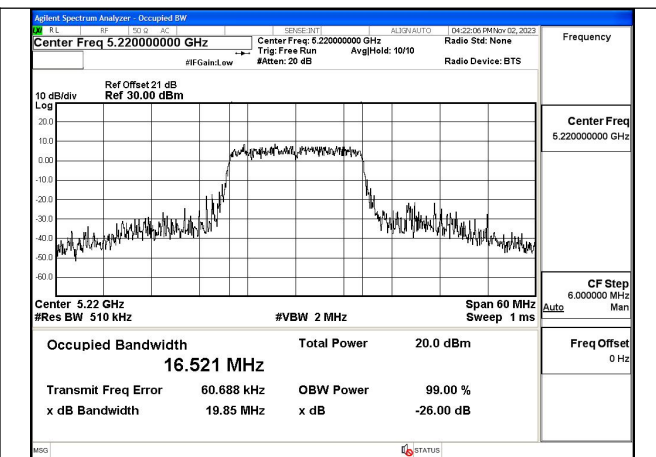
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5190MHz	---	5230MHz
802.11n HT40	Chain0	41.34	---	46.84
802.11n HT40	Chain1	40.48	---	40.11
802.11ac VHT40	Chain0	40.25	---	30.13
802.11ac VHT40	Chain1	45.51	---	44.97

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5210MHz	---	---
802.11ac VHT80	Chain0	81.08	---	---
802.11ac VHT80	Chain1	83.76	---	---

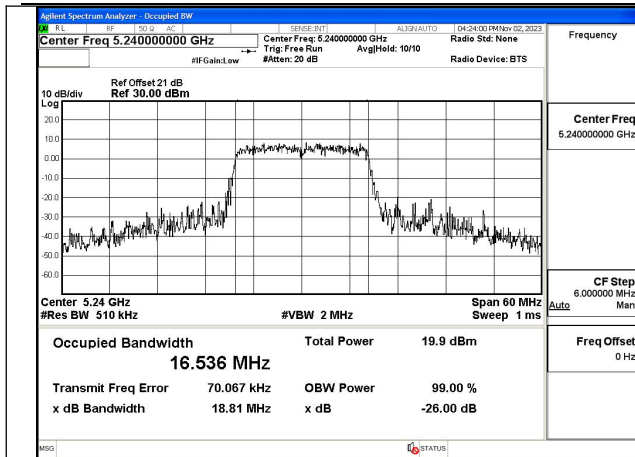
Test Mode: 802.11a



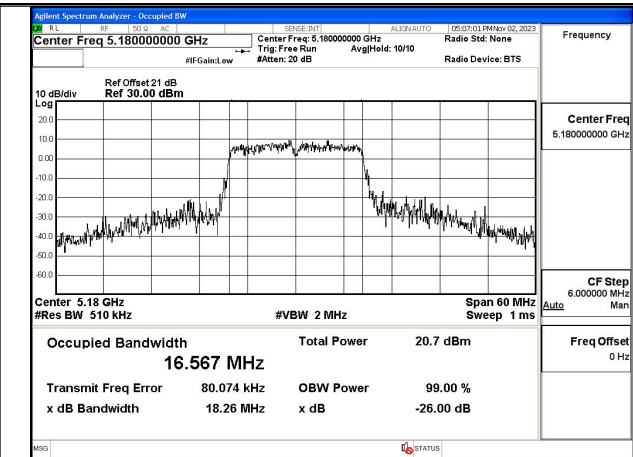
Mode:802.11a Frequency:5180MHz Ant:Chain0



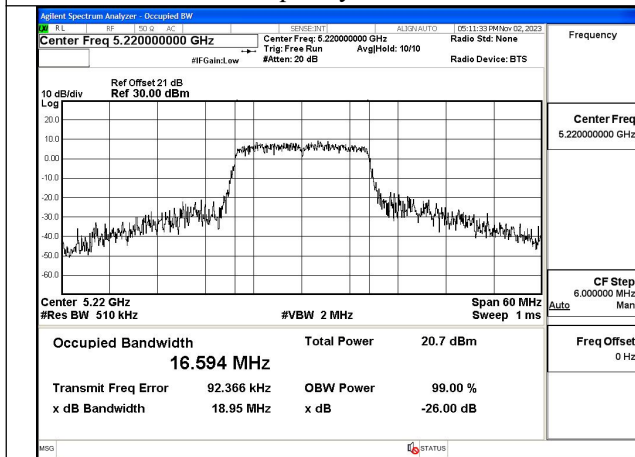
Mode:802.11a Frequency:5220MHz Ant:Chain0



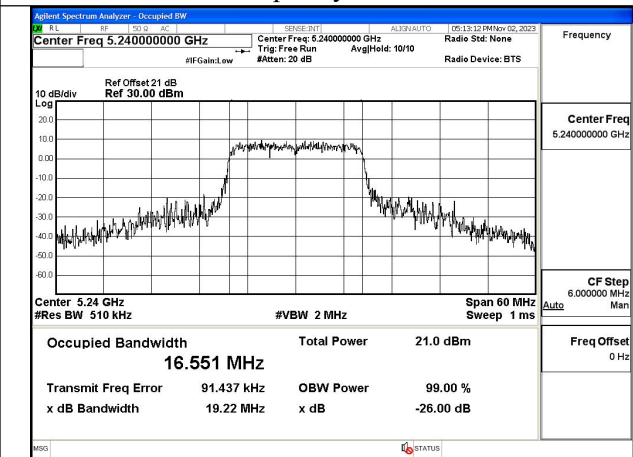
Mode:802.11a Frequency:5240MHz Ant:Chain0



Mode:802.11a Frequency:5180MHz Ant:Chain1

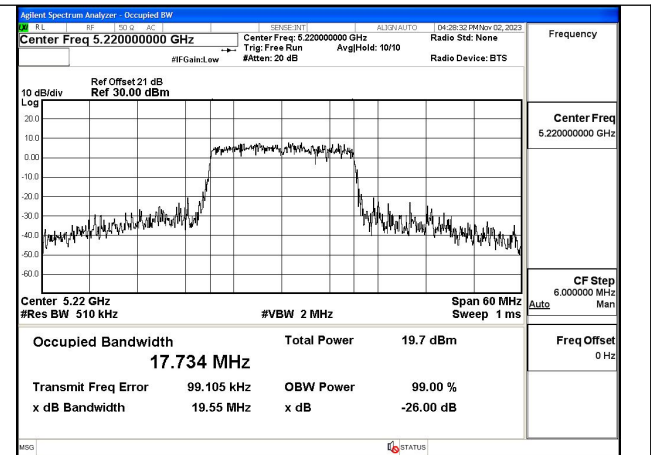
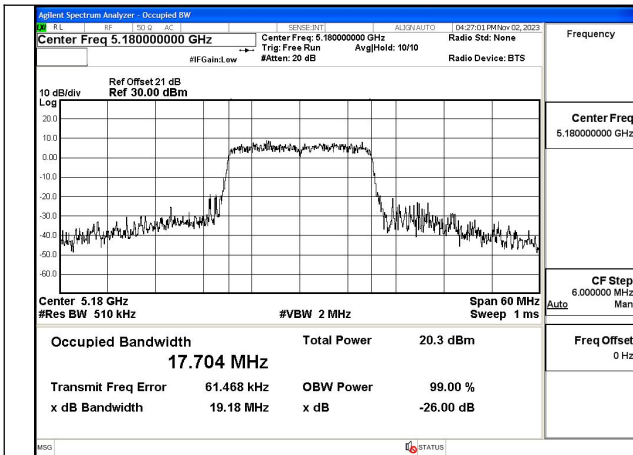


Mode:802.11a Frequency:5220MHz Ant:Chain1

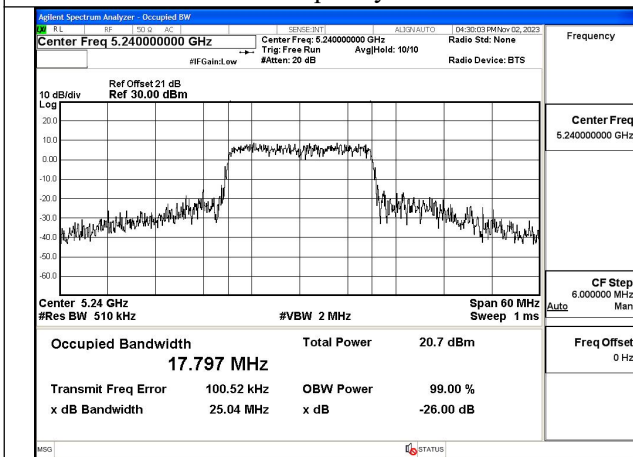


Mode:802.11a Frequency:5240MHz Ant:Chain1

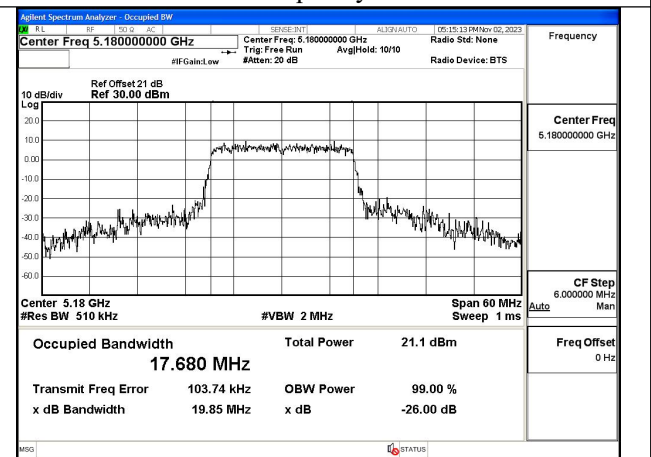
Test Mode: 802.11n HT20



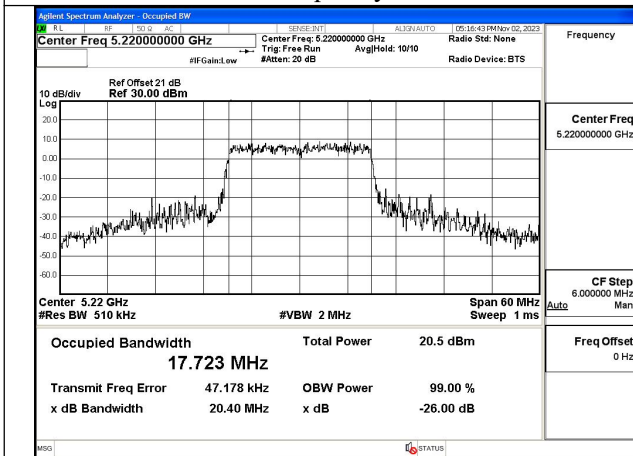
Mode:802.11n HT20 Frequency:5180MHz Ant:Chain0



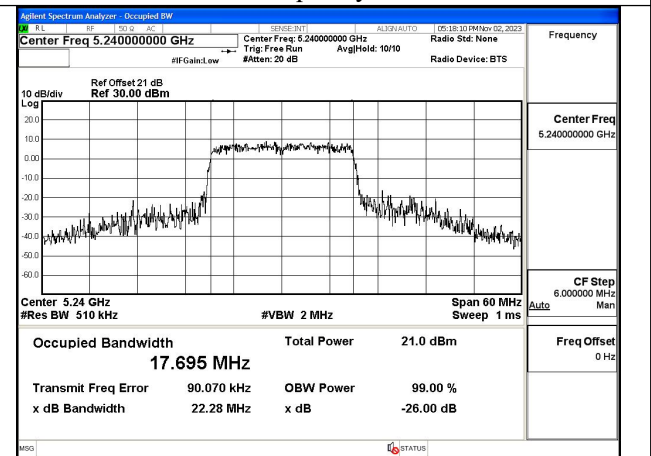
Mode:802.11n HT20 Frequency:5220MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5240MHz Ant:Chain0



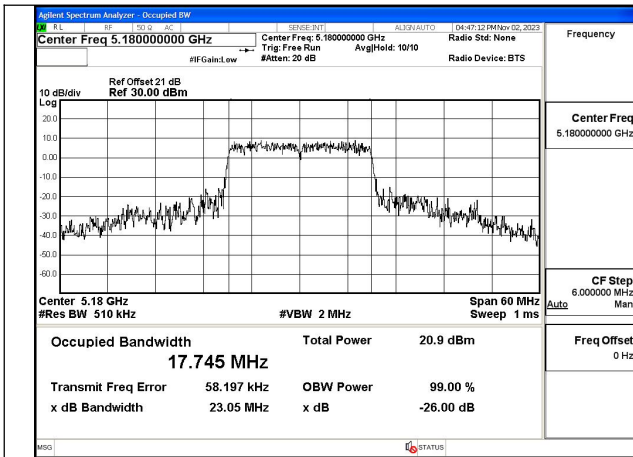
Mode:802.11n HT20 Frequency:5240MHz Ant:Chain1



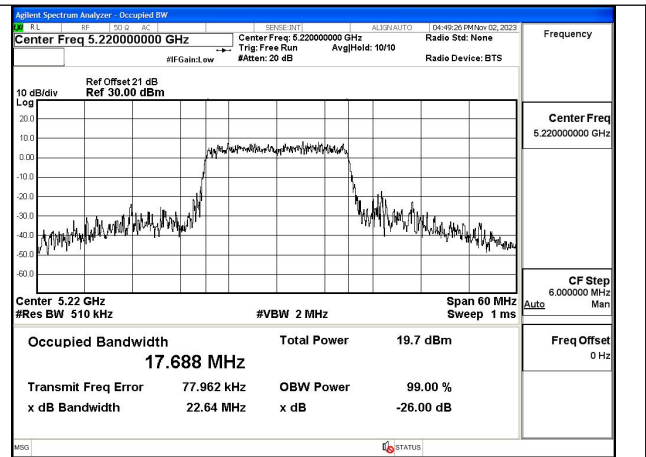
Mode:802.11n HT20 Frequency:5220MHz Ant:Chain1

Mode:802.11n HT20 Frequency:5240MHz Ant:Chain1

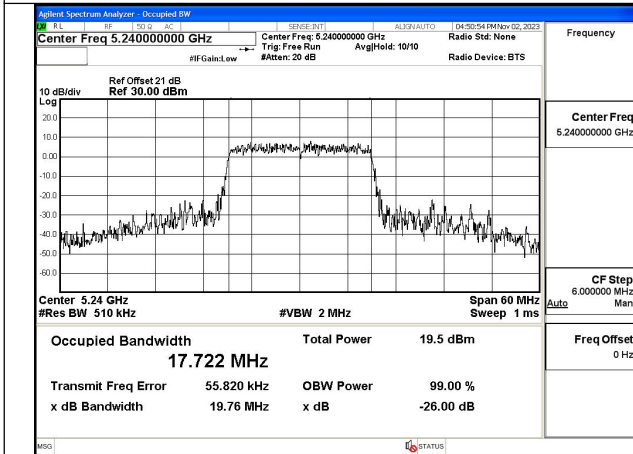
Test Mode: 802.11ac VHT20



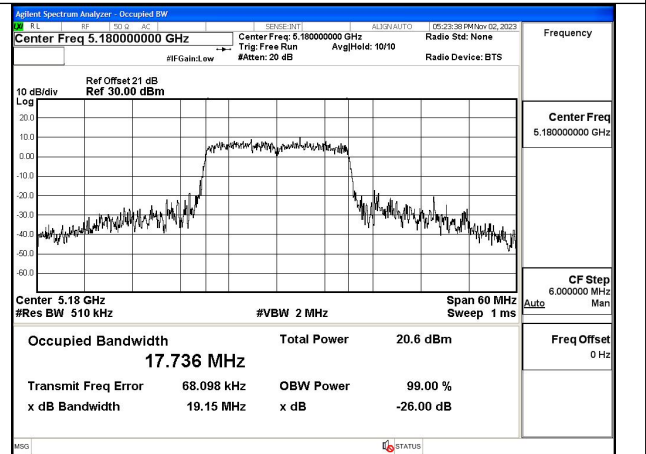
Mode:802.11ac VHT20 Frequency:5180MHz
Ant:Chain0



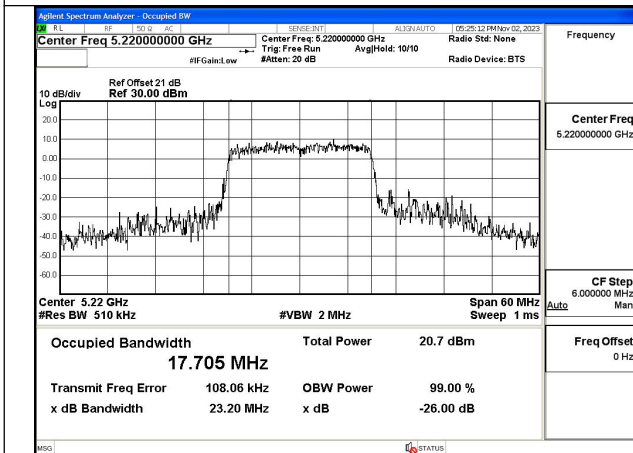
Mode:802.11ac VHT20 Frequency:5220MHz
Ant:Chain0



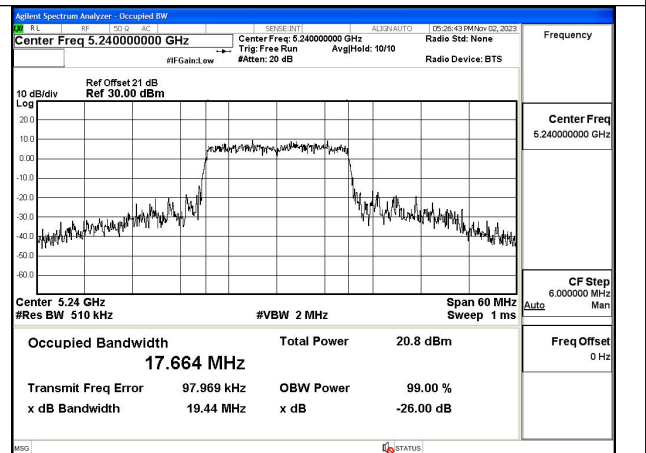
Mode:802.11ac VHT20 Frequency:5240MHz
Ant:Chain0



Mode:802.11ac VHT20 Frequency:5180MHz
Ant:Chain1

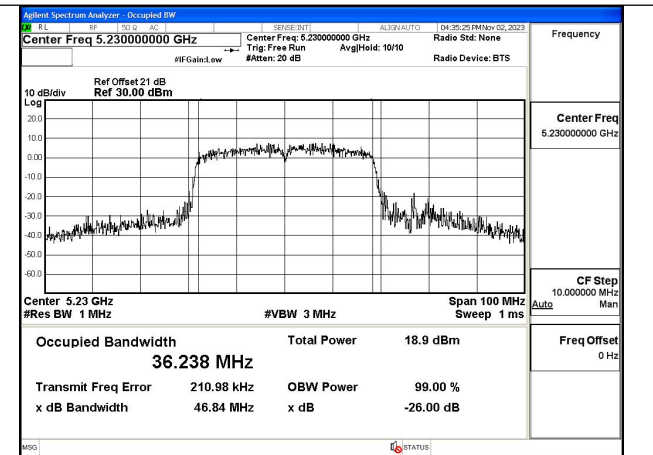
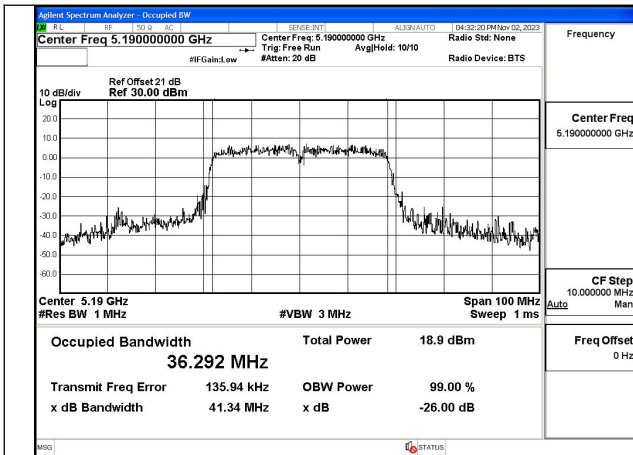


Mode:802.11ac VHT20 Frequency:5220MHz
Ant:Chain1

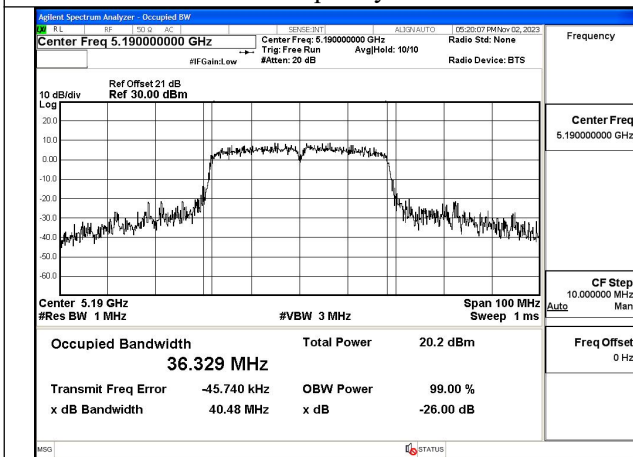


Mode:802.11ac VHT20 Frequency:5240MHz
Ant:Chain1

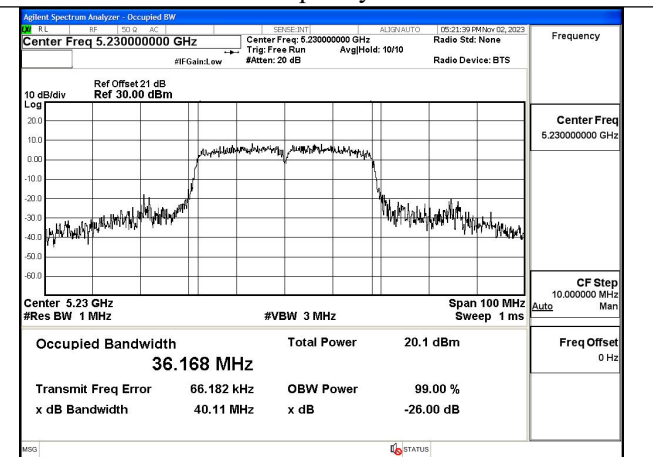
Test Mode: 802.11n HT40



Mode:802.11n HT40 Frequency:5190MHz Ant:Chain0



Mode:802.11n HT40 Frequency:5230MHz Ant:Chain0



Mode:802.11n HT40 Frequency:5190MHz Ant:Chain1

Mode:802.11n HT40 Frequency:5230MHz Ant:Chain1