APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5180	98.12%	0	Fig.1
802.11a	5180	98.39%	0	Fig.2
802.11n HT20	5180	98.14%	0	Fig.3
802.11n HT20	5180	97.95%	0.09	Fig.4
802.11ac VHT20	5180	98.09%	0	Fig.5
802.11ac VHT20	5180	98.17%	0	Fig.6
802.11n HT40	5190	97.09%	0.13	Fig.7
802.11n HT40	5190	96.95%	0.13	Fig.8
802.11ac VHT40	5190	97.12%	0.13	Fig.9
802.11ac VHT40	5190	97.07%	0.13	Fig.10
802.11ac VHT80	5210	95.78%	0.19	Fig.11
802.11ac VHT80	5210	95.78%	0.19	Fig.12

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

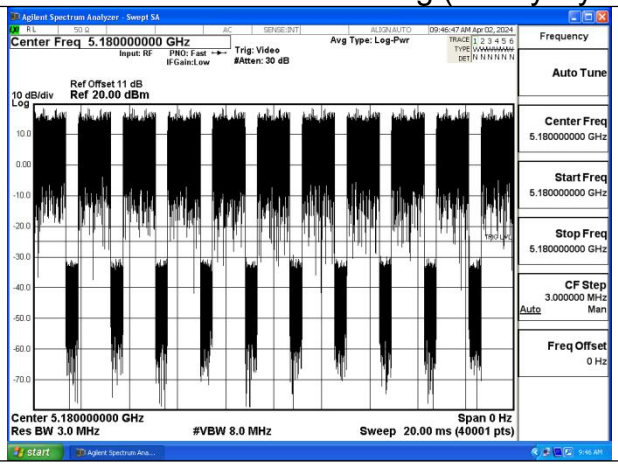


Fig.1

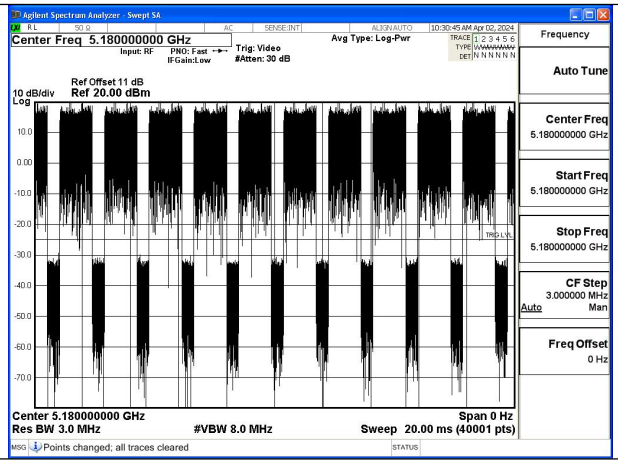


Fig.2

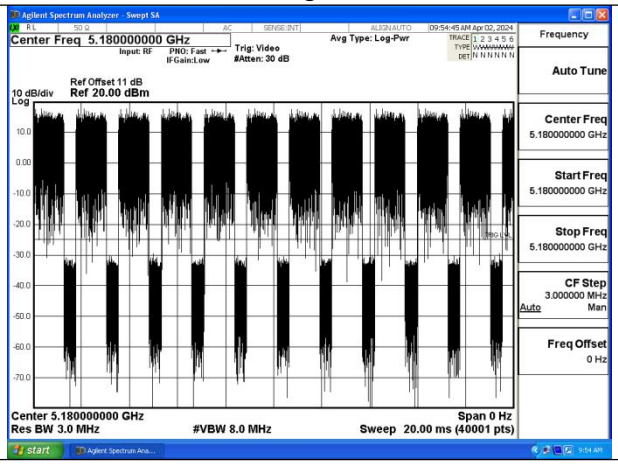


Fig.3

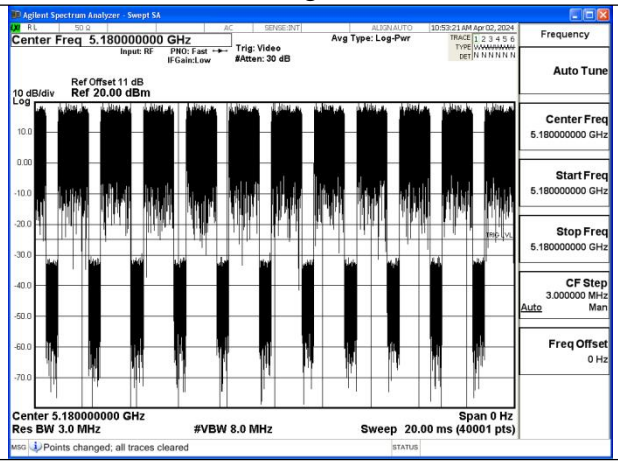


Fig.4

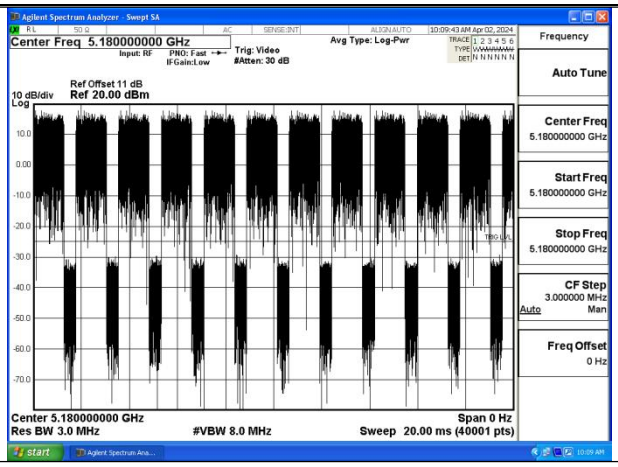


Fig.5

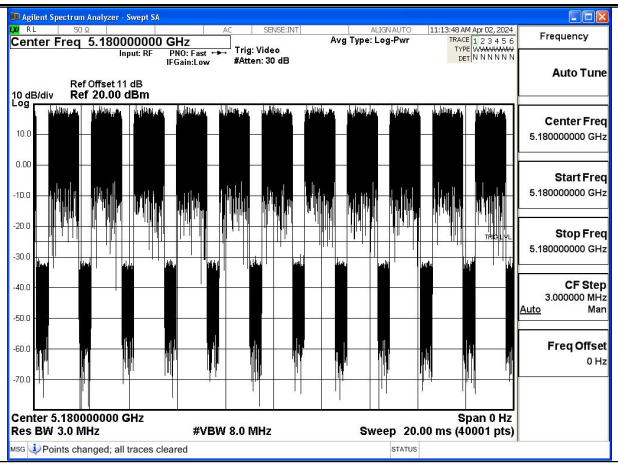


Fig.6

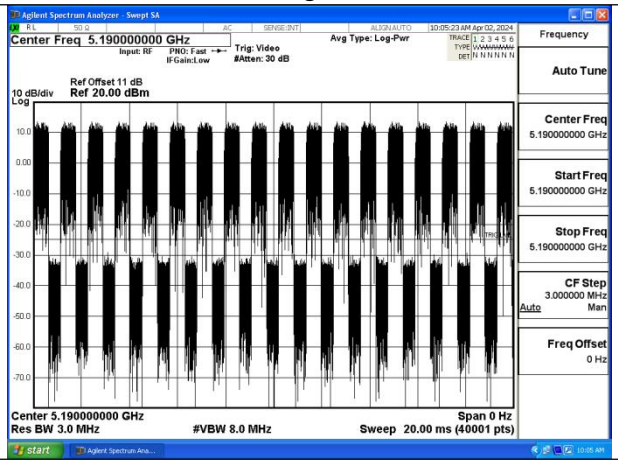


Fig.7

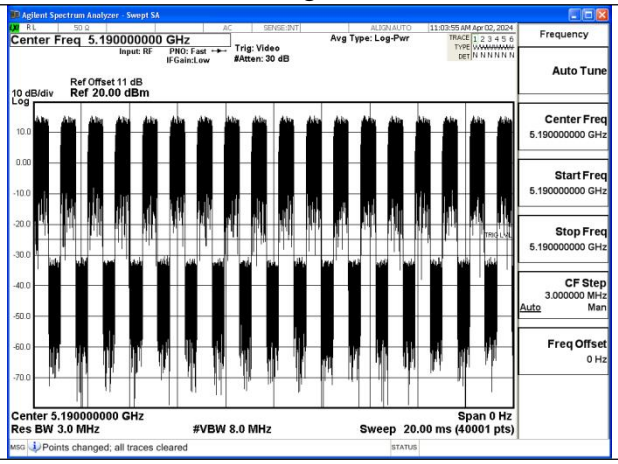


Fig.8

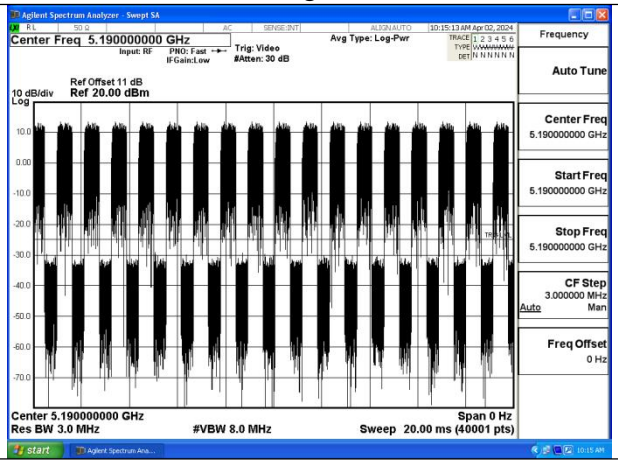


Fig.9

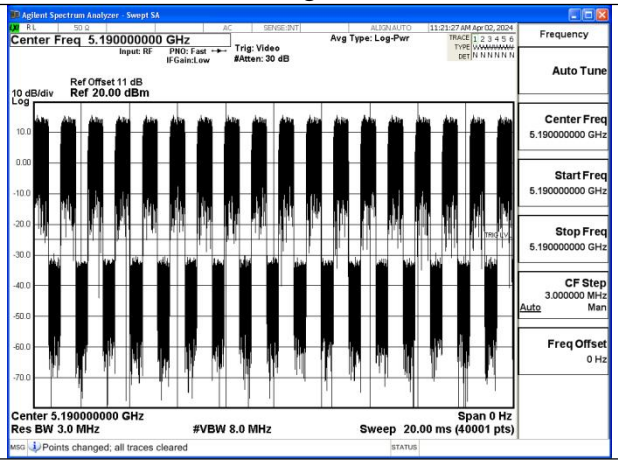


Fig.10

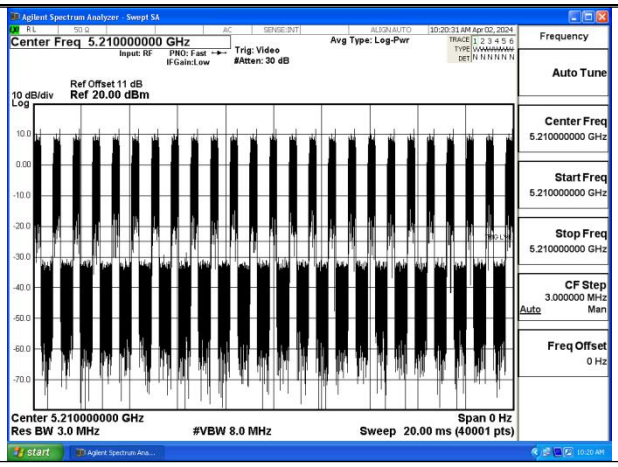

Agilent Spectrum Analyzer - Swept SA
Center Freq 5.210000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Video
#Atten: 30 dB
Avg Type: Log-Pwr
Ref Offset 11 dB
10 dB/div
Ref 20.00 dBm
Log
Center 5.210000000 GHz
Res BW 3.0 MHz
#VBW 8.0 MHz
Span 0 Hz
Sweep 20.00 ms (40001 pts)
Frequency
Auto Tune
Center Freq
5.210000000 GHz
Start Freq
5.210000000 GHz
Stop Freq
5.210000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.11

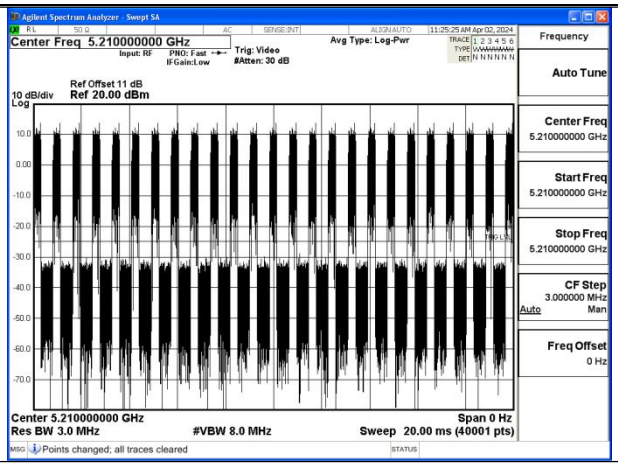

Agilent Spectrum Analyzer - Swept SA
Center Freq 5.210000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Video
#Atten: 30 dB
Avg Type: Log-Pwr
Ref Offset 11 dB
10 dB/div
Ref 20.00 dBm
Log
Center 5.210000000 GHz
Res BW 3.0 MHz
#VBW 8.0 MHz
Span 0 Hz
Sweep 20.00 ms (40001 pts)
Points changed; all traces cleared
Frequency
Auto Tune
Center Freq
5.210000000 GHz
Start Freq
5.210000000 GHz
Stop Freq
5.210000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.12

Output Power

Mode	Tones/ RUIndex	Frequency (MHz)	Antenna	Conductedaverage power output(dBm)	EIRP (dBm)
802.11a	NA	5180	Chain0	13.41	16.41
802.11a	NA	5180	Chain1	15.32	17.32
802.11a	NA	5220	Chain0	13.41	16.41
802.11a	NA	5220	Chain1	15.39	17.39
802.11a	NA	5240	Chain0	13.59	16.59
802.11a	NA	5240	Chain1	15.55	17.55
802.11n HT20	NA	5180	Chain0	13.21	16.21
802.11n HT20	NA	5180	Chain1	15.56	17.56
802.11n HT20	NA	5180	MIMO	17.55	20.08
802.11n HT20	NA	5220	Chain0	13.09	16.09
802.11n HT20	NA	5220	Chain1	15.44	17.44
802.11n HT20	NA	5220	MIMO	17.43	19.96
802.11n HT20	NA	5240	Chain0	13.46	16.46
802.11n HT20	NA	5240	Chain1	14.70	16.70
802.11n HT20	NA	5240	MIMO	17.13	19.66
802.11ac VHT20	NA	5180	Chain0	13.43	16.43
802.11ac VHT20	NA	5180	Chain1	15.18	17.18
802.11ac VHT20	NA	5180	MIMO	17.40	19.93
802.11ac VHT20	NA	5220	Chain0	13.61	16.61
802.11ac VHT20	NA	5220	Chain1	14.46	16.46
802.11ac VHT20	NA	5220	MIMO	17.07	19.60
802.11ac VHT20	NA	5240	Chain0	13.65	16.65
802.11ac VHT20	NA	5240	Chain1	15.13	17.13
802.11ac VHT20	NA	5240	MIMO	17.46	19.99
802.11n HT40	NA	5190	Chain0	12.31	15.31
802.11n HT40	NA	5190	Chain1	13.92	15.92
802.11n HT40	NA	5190	MIMO	16.20	18.73
802.11n HT40	NA	5230	Chain0	12.82	15.82
802.11n HT40	NA	5230	Chain1	14.51	16.51
802.11n HT40	NA	5230	MIMO	16.76	19.29
802.11ac VHT40	NA	5190	Chain0	12.57	15.57
802.11ac VHT40	NA	5190	Chain1	13.87	15.87
802.11ac VHT40	NA	5190	MIMO	16.28	18.81
802.11ac VHT40	NA	5230	Chain0	12.56	15.56
802.11ac VHT40	NA	5230	Chain1	14.23	16.23
802.11ac VHT40	NA	5230	MIMO	16.49	19.02
802.11ac VHT80	NA	5210	Chain0	12.98	15.98
802.11ac VHT80	NA	5210	Chain1	12.73	14.73
802.11ac VHT80	NA	5210	MIMO	15.87	18.40

Emission Bandwidth

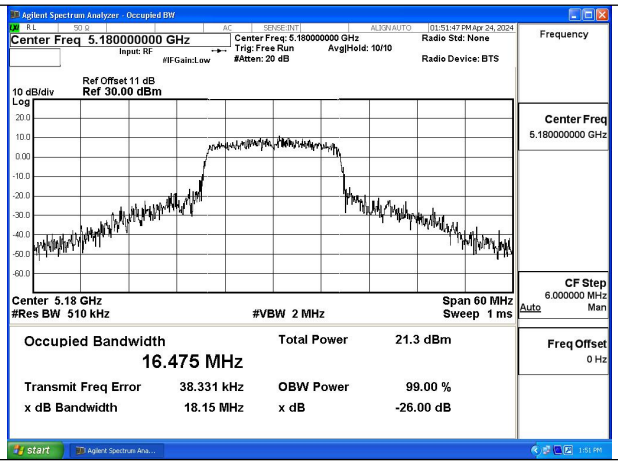
Offset 21dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	18.15	19.45	18.91
802.11a	Chain1	18.76	18.61	19.45
802.11n HT20	Chain0	19.45	19.41	20.58
802.11n HT20	Chain1	19.31	19.59	21.15
802.11ac VHT20	Chain0	22.40	20.21	19.77
802.11ac VHT20	Chain1	21.74	20.04	19.59

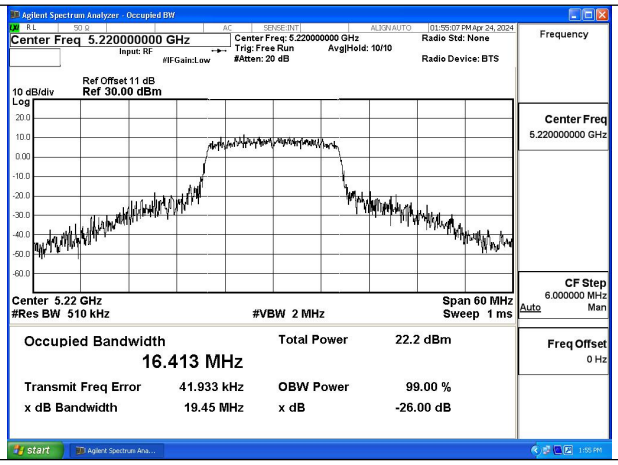
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5190MHz	---	5230MHz
802.11n HT40	Chain0	43.47	---	49.16
802.11n HT40	Chain1	44.46	---	38.96
802.11ac VHT40	Chain0	38.98	---	40.97
802.11ac VHT40	Chain1	47.34	---	38.34

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5210MHz	---	---
802.11ac VHT80	Chain0	80.29	---	---
802.11ac VHT80	Chain1	73.98	---	---

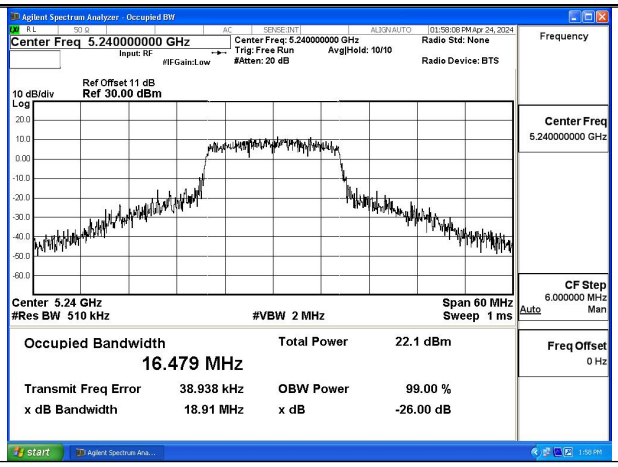
Test Mode: 802.11a



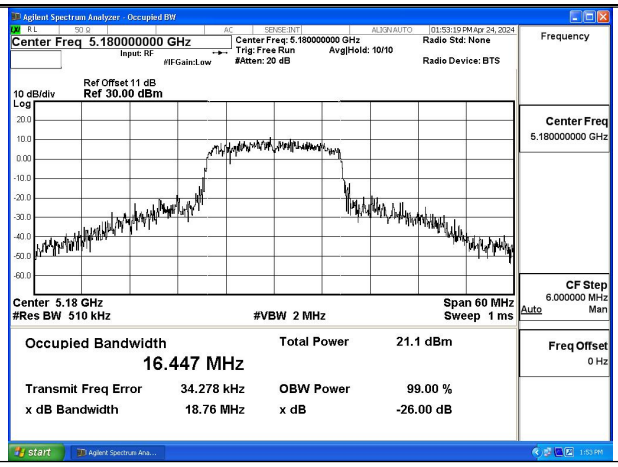
Mode:802.11a Frequency:5180MHz Ant:Chain0



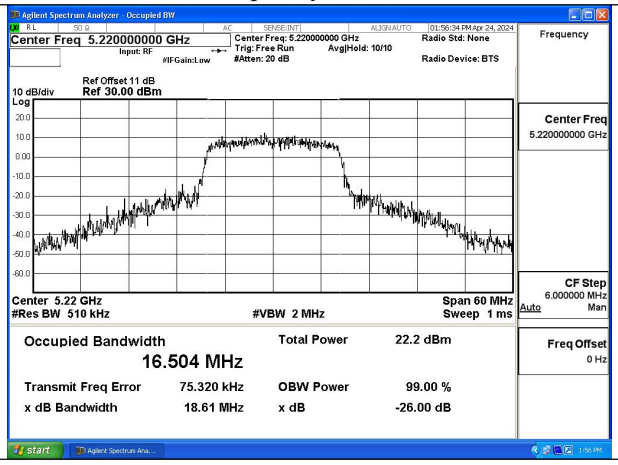
Mode:802.11a Frequency:5220MHz Ant:Chain0



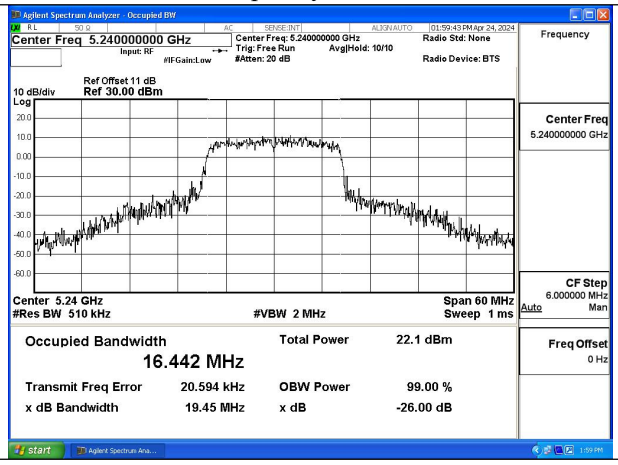
Mode:802.11a Frequency:5240MHz Ant:Chain0



Mode:802.11a Frequency:5180MHz Ant:Chain1

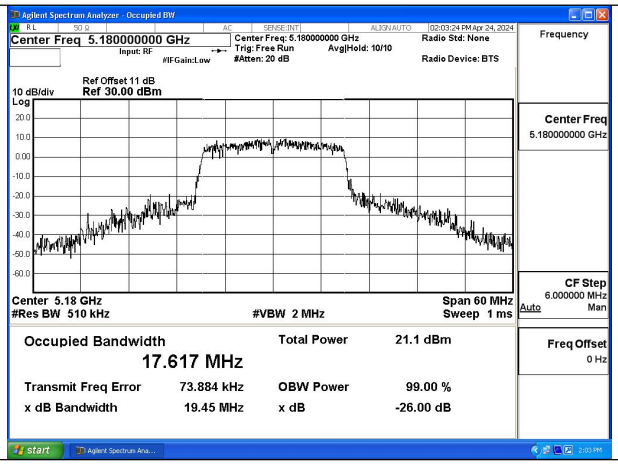


Mode:802.11a Frequency:5220MHz Ant:Chain1

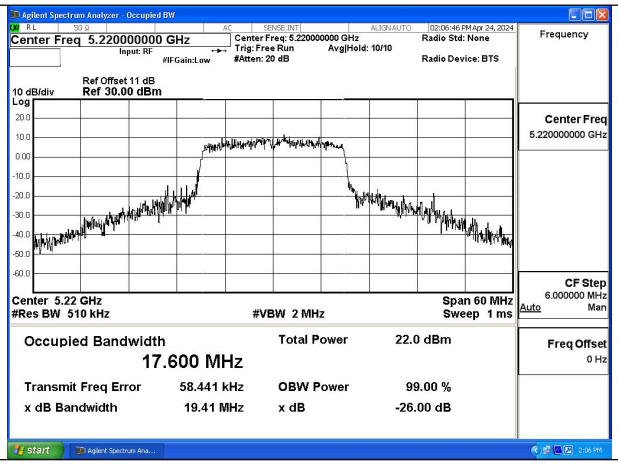


Mode:802.11a Frequency:5240MHz Ant:Chain1

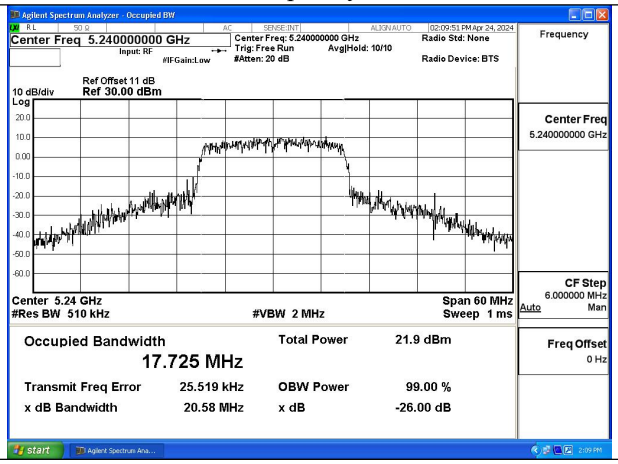
Test Mode: 802.11n HT20



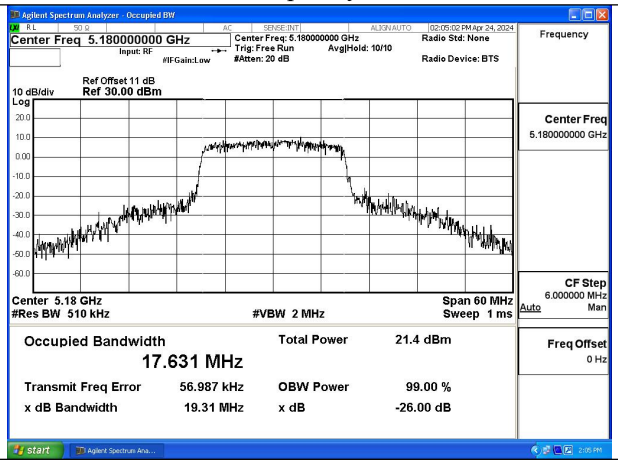
Mode:802.11n HT20 Frequency:5180MHz Ant:Chain0



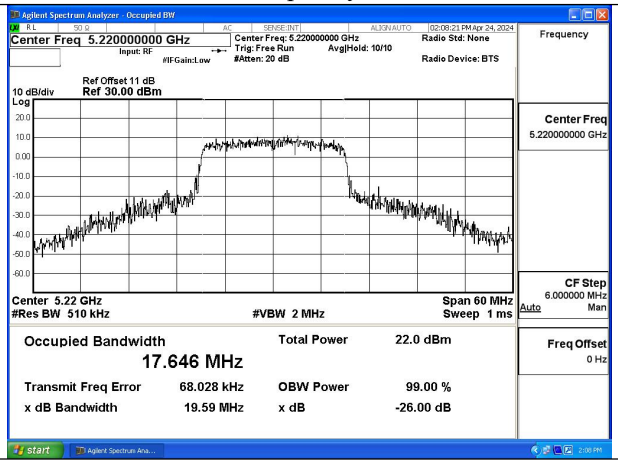
Mode:802.11n HT20 Frequency:5220MHz Ant:Chain0



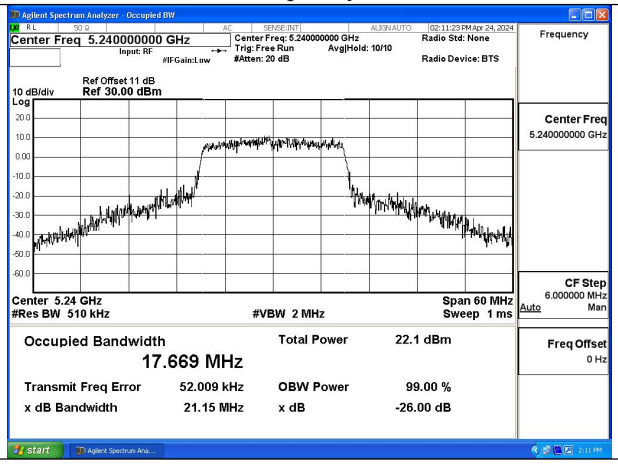
Mode:802.11n HT20 Frequency:5240MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5180MHz Ant:Chain1

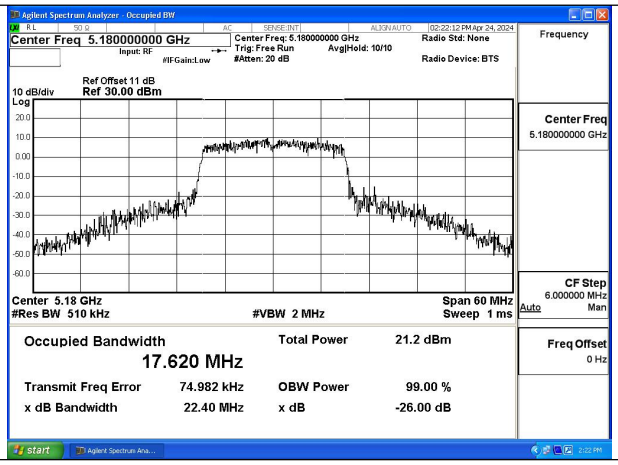


Mode:802.11n HT20 Frequency:5220MHz Ant:Chain1

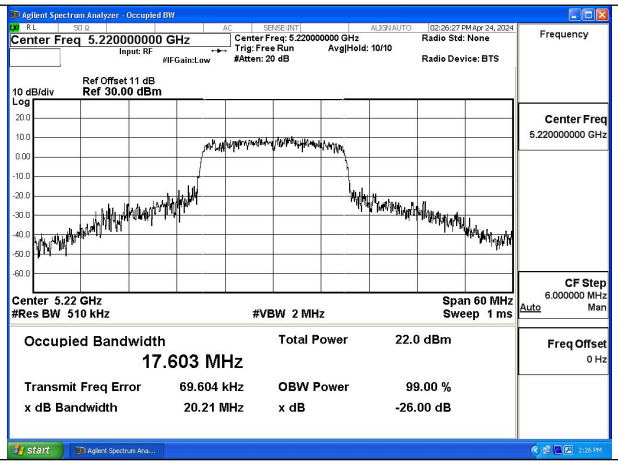


Mode:802.11n HT20 Frequency:5240MHz Ant:Chain1

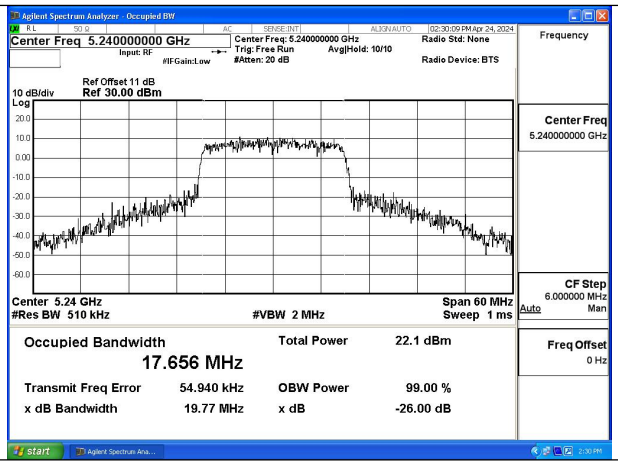
Test Mode: 802.11ac VHT20



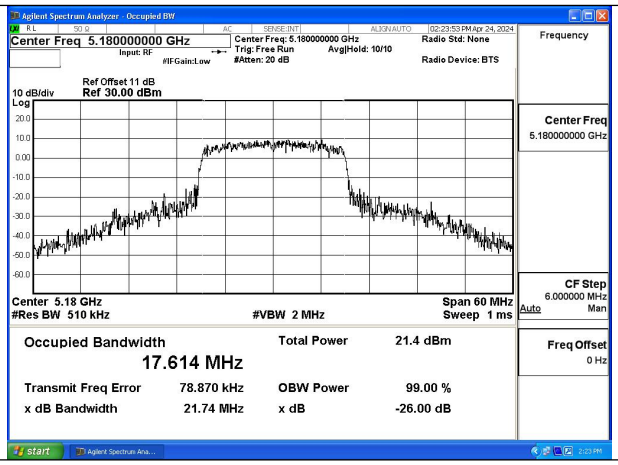
Mode:802.11ac VHT20 Frequency:5180MHz
Ant:Chain0



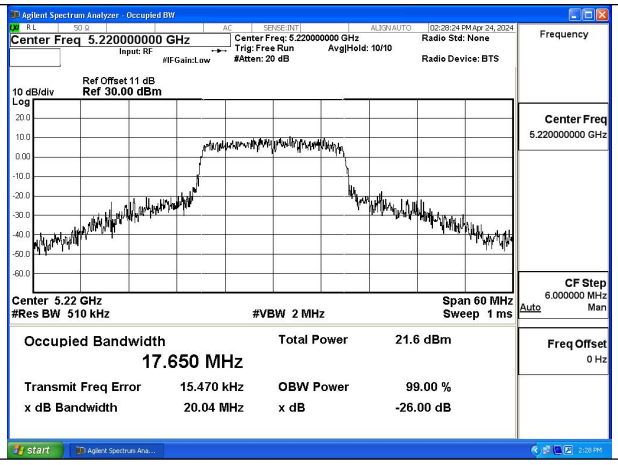
Mode:802.11ac VHT20 Frequency:5220MHz
Ant:Chain0



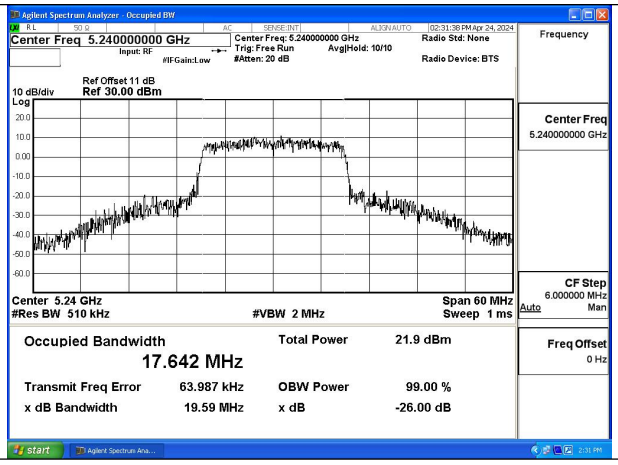
Mode:802.11ac VHT20 Frequency:5240MHz
Ant:Chain0



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



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



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