

## **APPENDIX A – TEST DATA OF CONDUCTED EMISSION**

ANT 0

Offset 28.6dB = Attenuator + Temporary antenna connector loss + Cable loss

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5500	99.67%	0
802.11n HT20	5500	99.66%	0
802.11n HT40	5510	99.46%	0
802.11ac VHT20	5500	99.59%	0
802.11ac VHT40	5510	99.44%	0
802.11ac VHT80	5530	99.29%	0

Output Power

NII2C

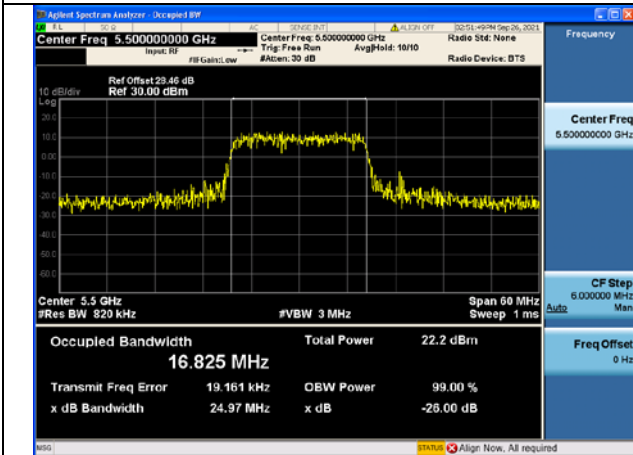
Mode	Tones/ RUIndex	Freq (MHz)	Chain	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5500	Chain0	17.54	17.84
		5580	Chain0	18.62	18.92
		5700	Chain0	18.98	19.28
802.11n20M		5500	Chain0	17.44	17.74
		5580	Chain0	18.28	18.58
		5700	Chain0	19.03	19.33
802.11n40M		5510	Chain0	16.86	17.16
		5590	Chain0	17.47	17.77
		5670	Chain0	17.93	18.23
802.11ac20M		5500	Chain0	17.44	17.74
		5580	Chain0	18.26	18.56
		5700	Chain0	18.83	19.13
802.11ac40M	5510	Chain0	16.87	17.17	
	5590	Chain0	17.40	17.70	
	5670	Chain0	17.93	18.23	
802.11ac80M	5530	Chain0	15.68	15.98	
	5610	Chain0	16.11	16.41	

Emission Bandwidth

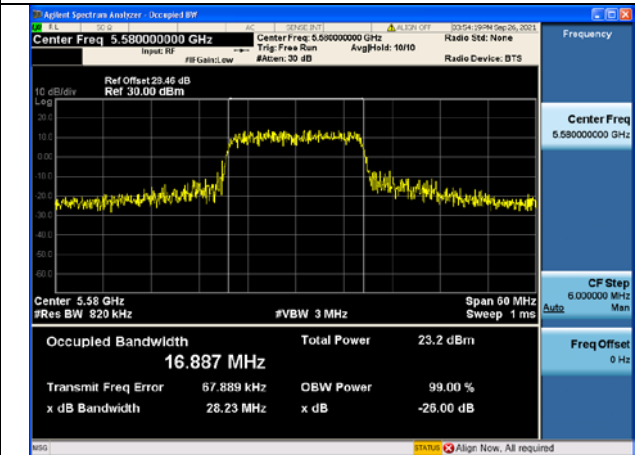
Test Mode:802.11a

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5500	Chain0	24.97
5580	Chain0	28.23
5700	Chain0	27.65

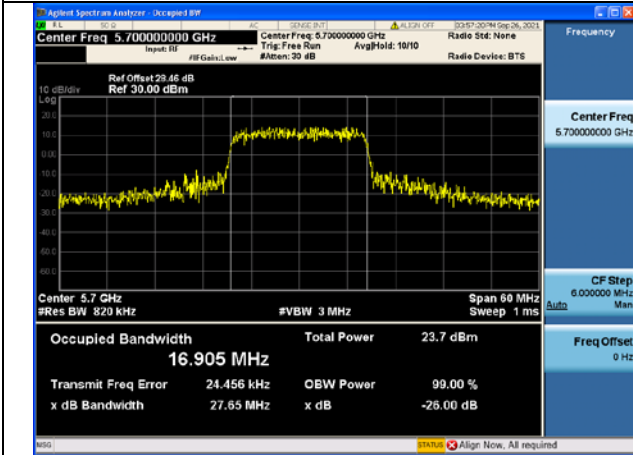
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



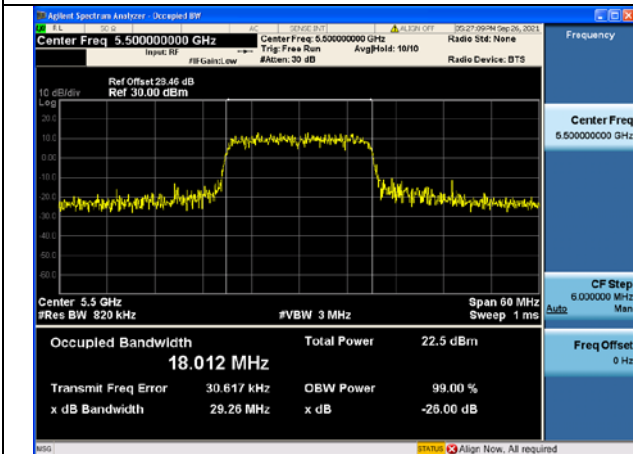
Test Mode:802.11a Chain0



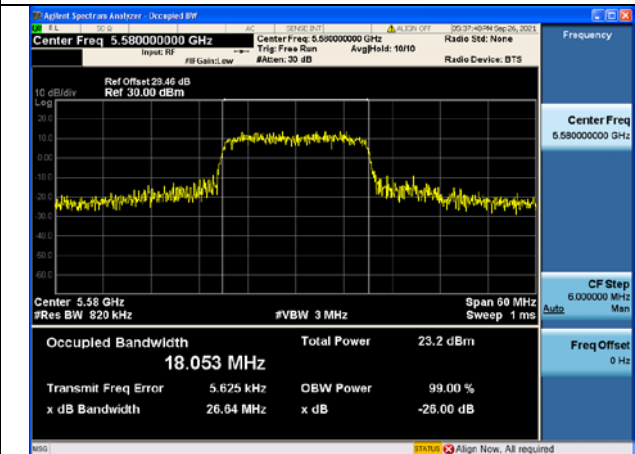
Test Mode:802.11n HT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5500	Chain0	29.26
5580	Chain0	26.64
5700	Chain0	29.12

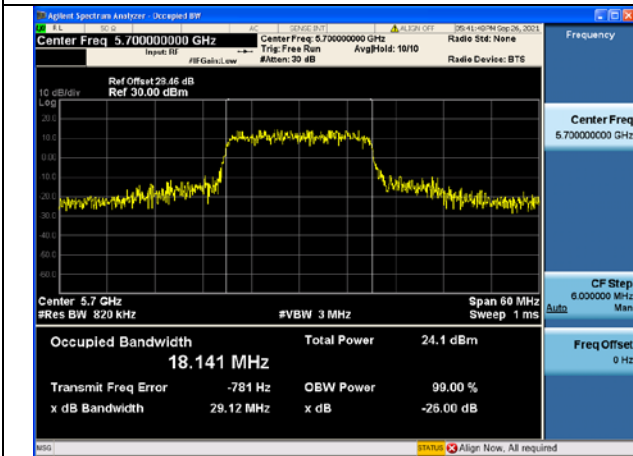
Test Mode:802.11n HT20 Chain0



Test Mode:802.11n HT20 Chain0



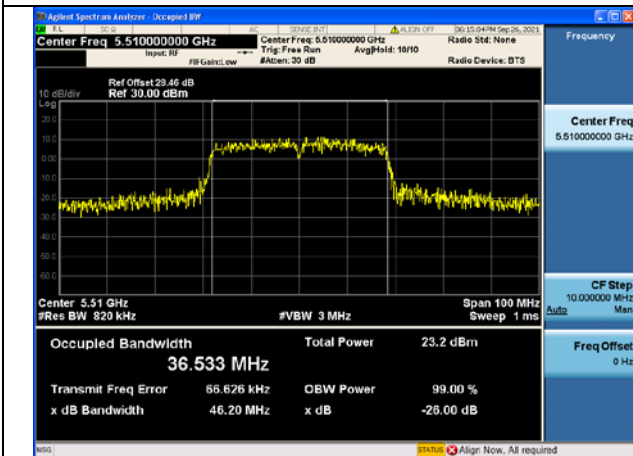
Test Mode:802. 11n HT20 Chain0



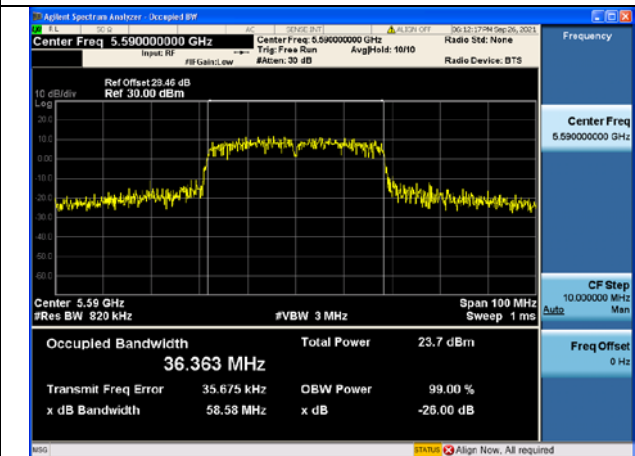
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5510	Chain0	46.20
5590	Chain0	58.58
5670	Chain0	65.56

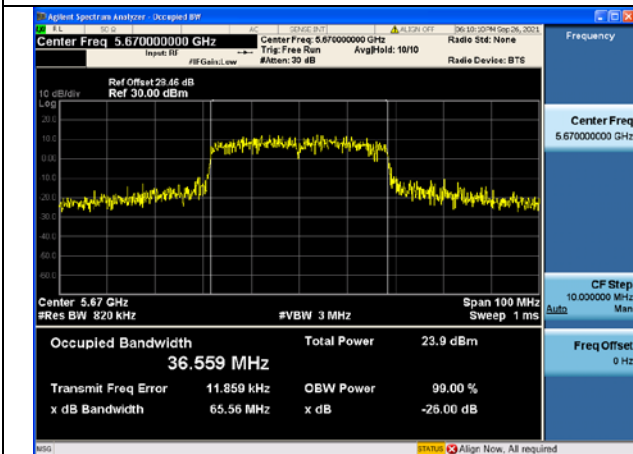
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain0



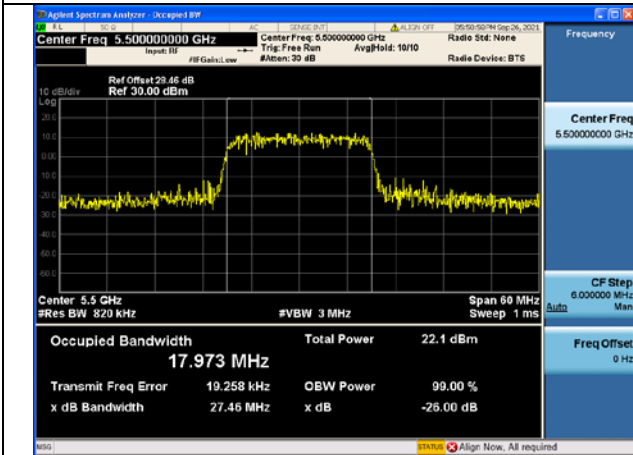
Test Mode:802. 11n HT40 Chain0



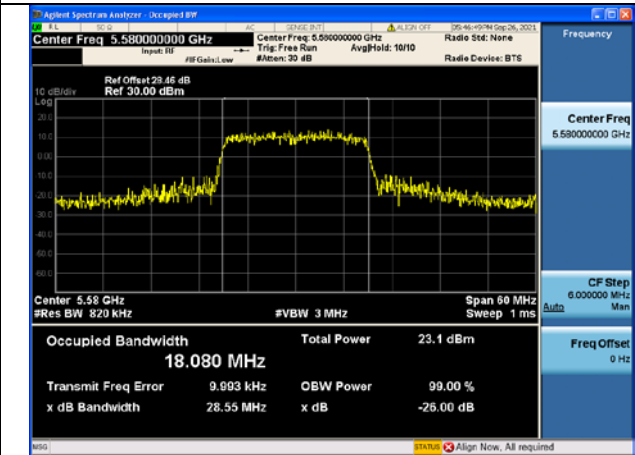
Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5500	Chain0	27.46
5580	Chain0	28.55
5700	Chain0	33.74

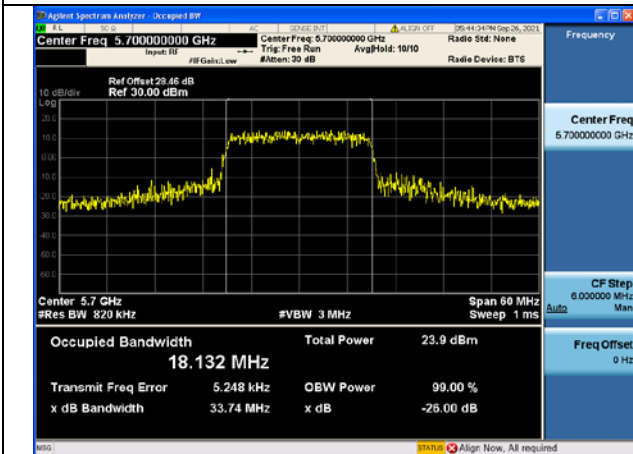
Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0



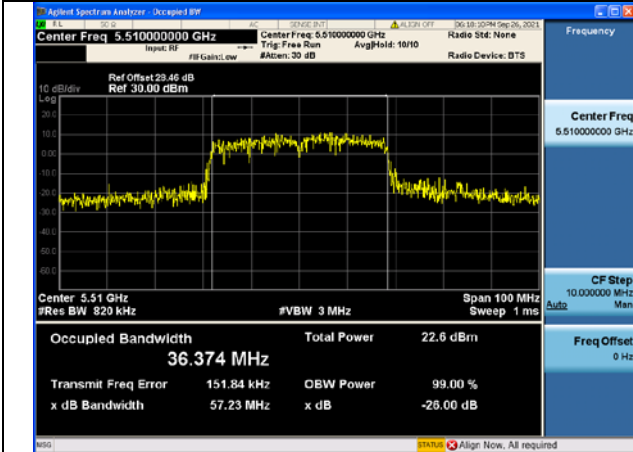
Test Mode:802. 11ac VHT20 Chain0



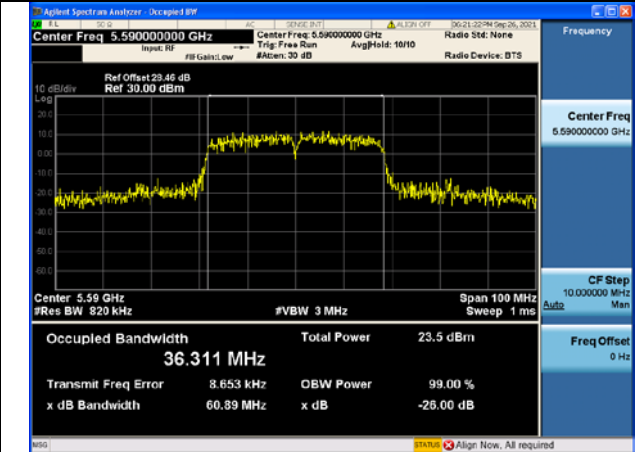
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5510	Chain0	57.23
5590	Chain0	60.89
5670	Chain0	52.02

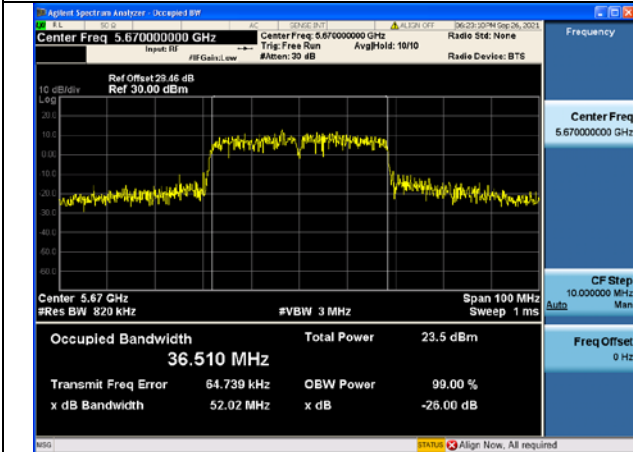
Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT40 Chain0



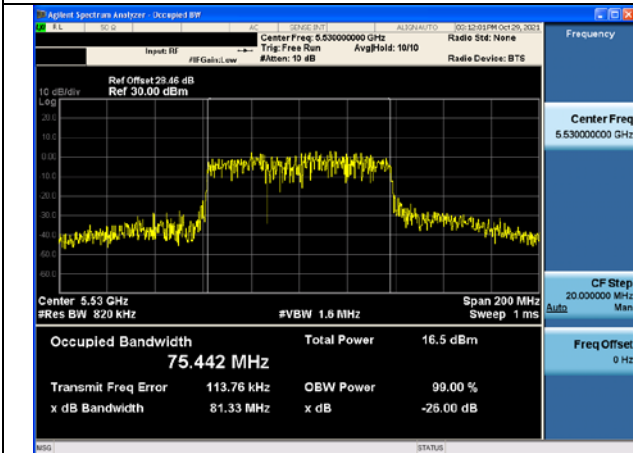
Test Mode:802. 11ac VHT40 Chain0



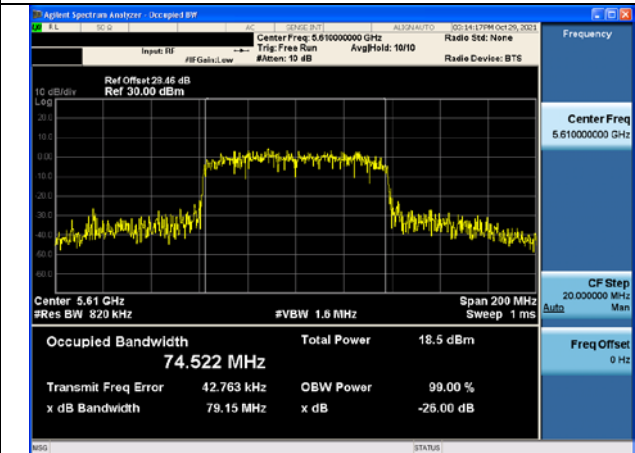
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5530	Chain0	81.33
5610	Chain0	79.15

Test Mode:802. 11ac VHT80 Chain0



Test Mode:802. 11ac VHT80 Chain0

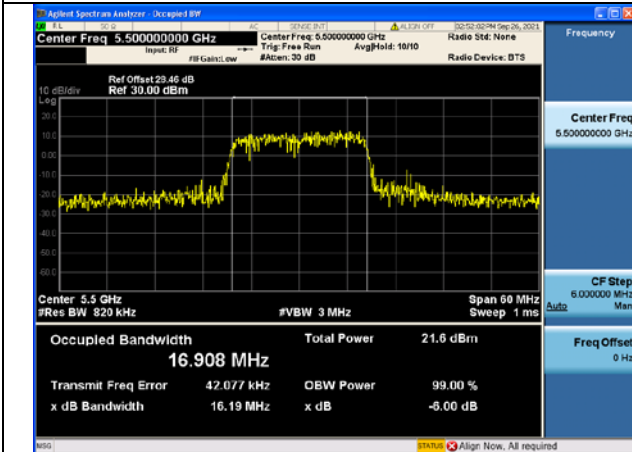


## Occupied Bandwidth

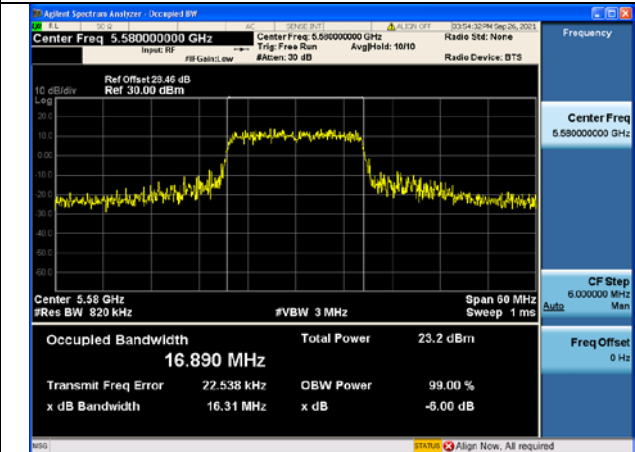
Test Mode:802.11a

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5500	Chain0	16.908
5580	Chain0	16.890
5700	Chain0	16.939

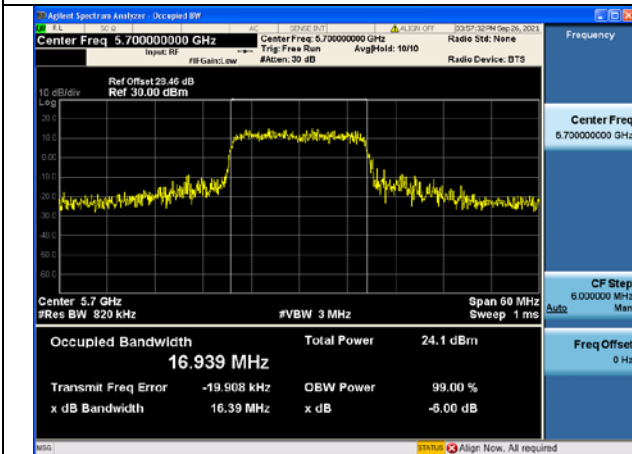
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



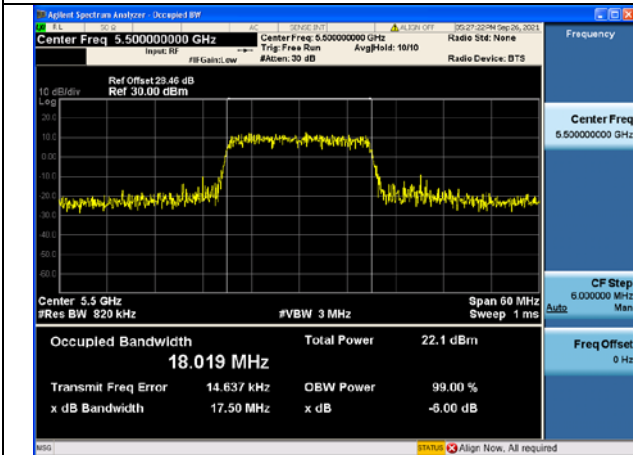
Test Mode:802.11a Chain0



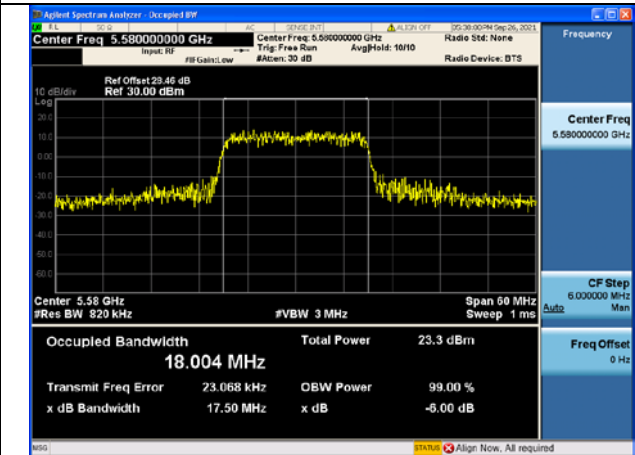
Test Mode:802.11n HT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5500	Chain0	18.019
5580	Chain0	18.004
5700	Chain0	18.141

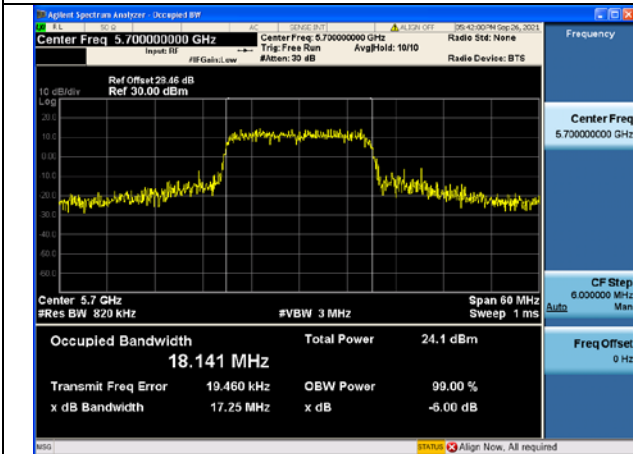
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



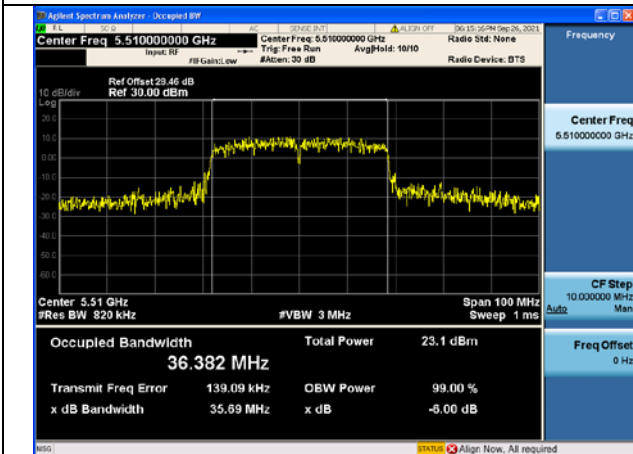
Test Mode:802. 11n HT20 Chain0



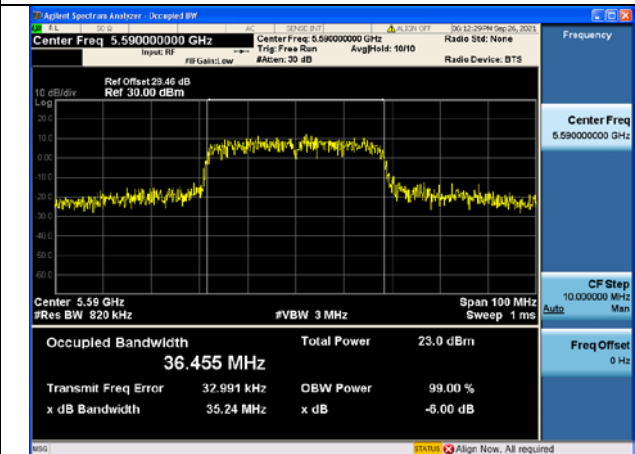
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5510	Chain0	36.382
5590	Chain0	36.455
5670	Chain0	36.466

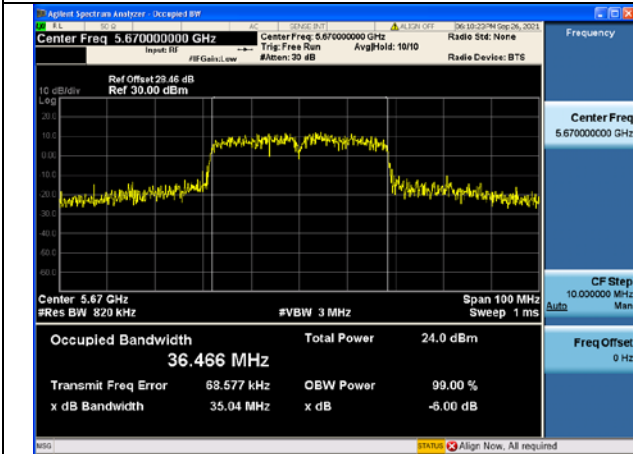
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain0



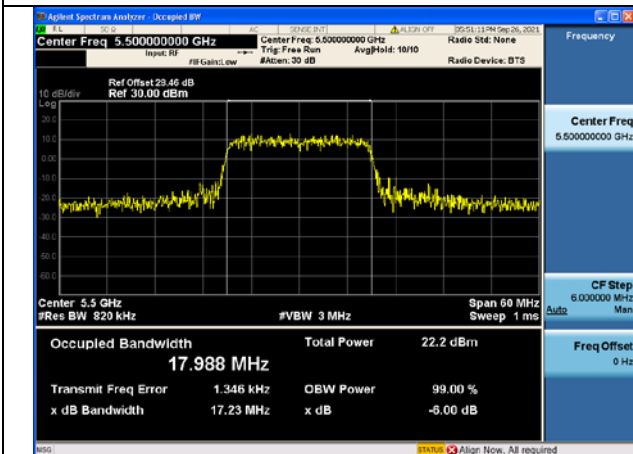
Test Mode:802. 11n HT40 Chain0



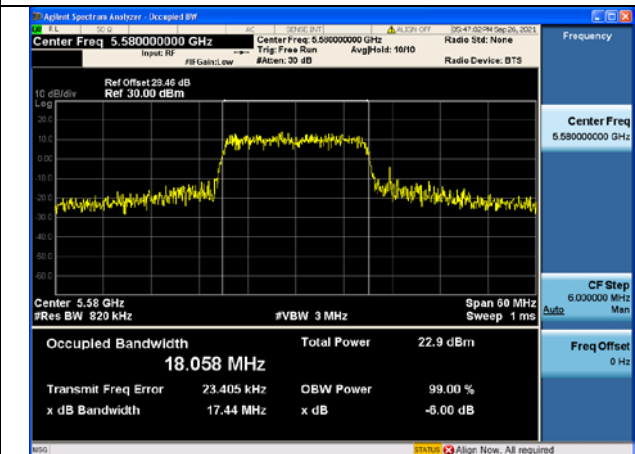
Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5500	Chain0	17.988
5580	Chain0	18.058
5700	Chain0	18.041

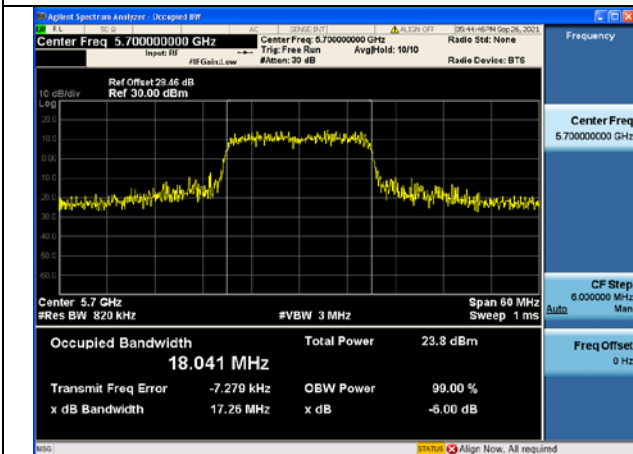
Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0

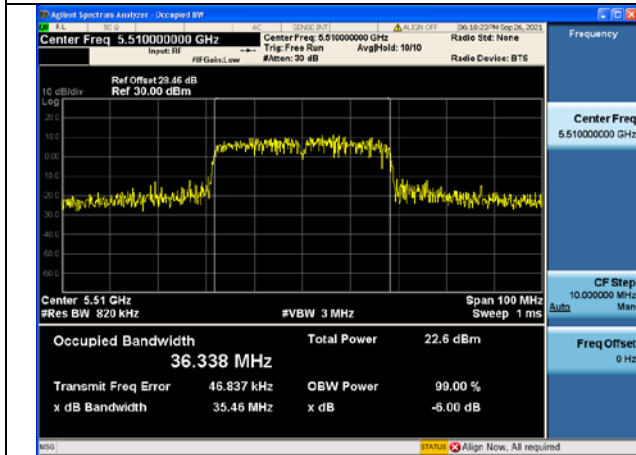




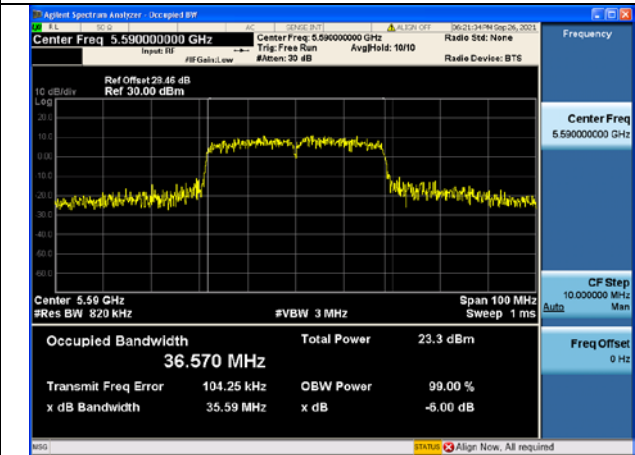
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5510	Chain0	36.338
5590	Chain0	36.570
5670	Chain0	36.368

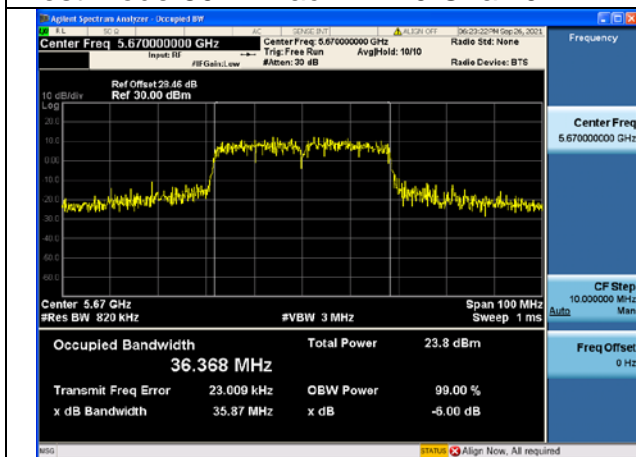
Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT40 Chain0



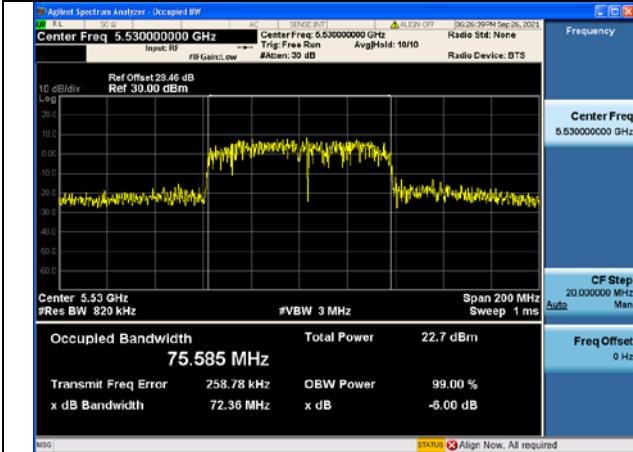
Test Mode:802. 11ac VHT40 Chain0



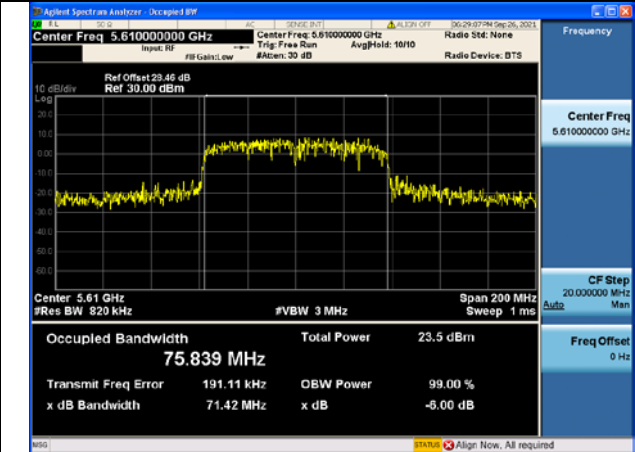
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5530	Chain0	75.585
5610	Chain0	75.839

Test Mode:802.11ac VHT80 Chain0



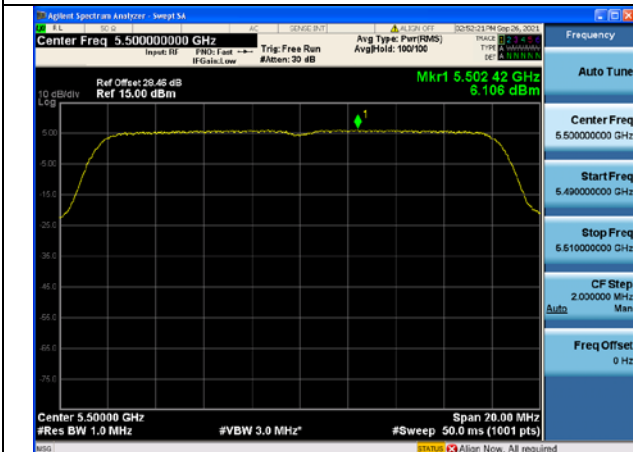
Test Mode:802.11ac VHT80 Chain0



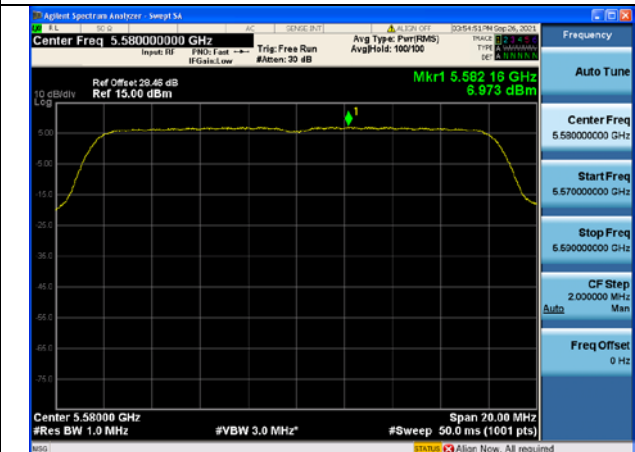
Transmitter Power Spectral Density  
Test Mode:802.11a

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5500	0	Chain0	6.106
5580		Chain0	6.973
5700		Chain0	7.873

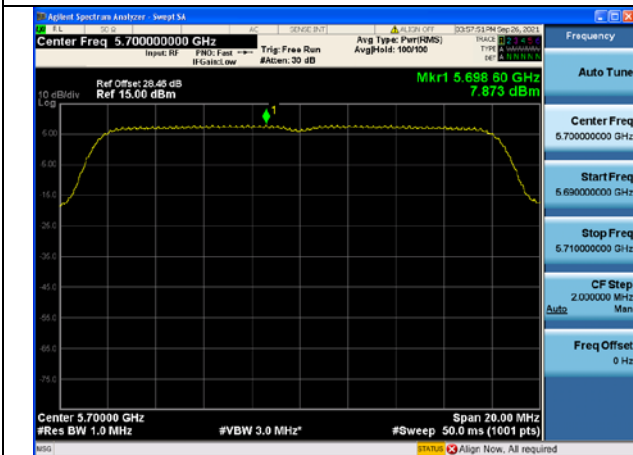
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



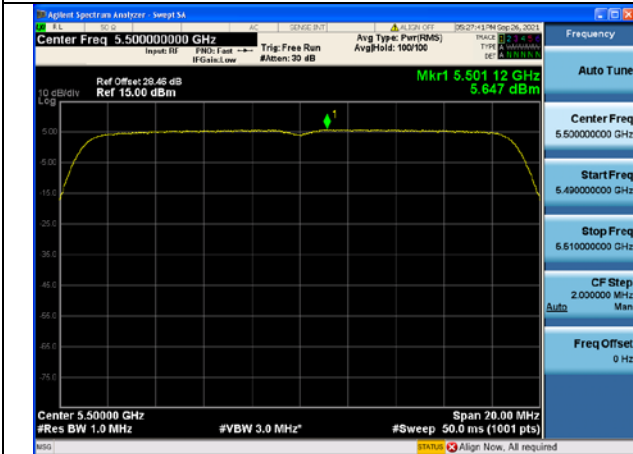
Test Mode:802.11a Chain0



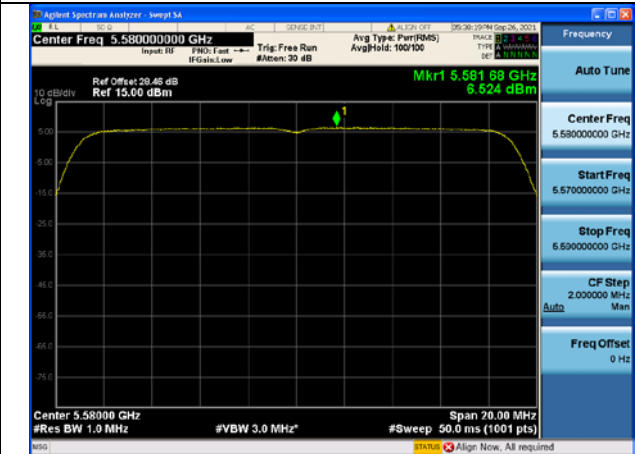
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5500	0	Chain0	5.647
5580		Chain0	6.524
5700		Chain0	7.229

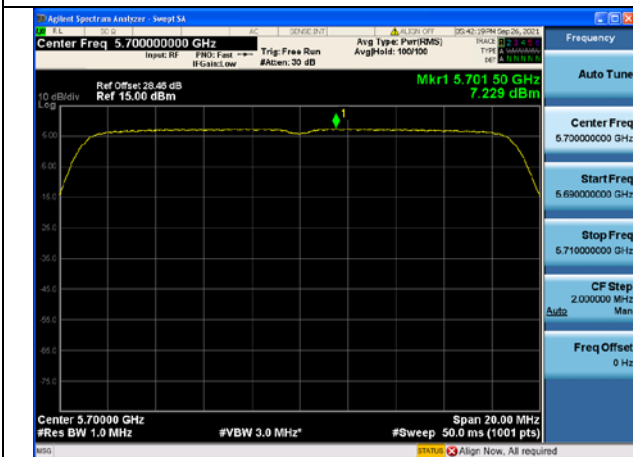
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



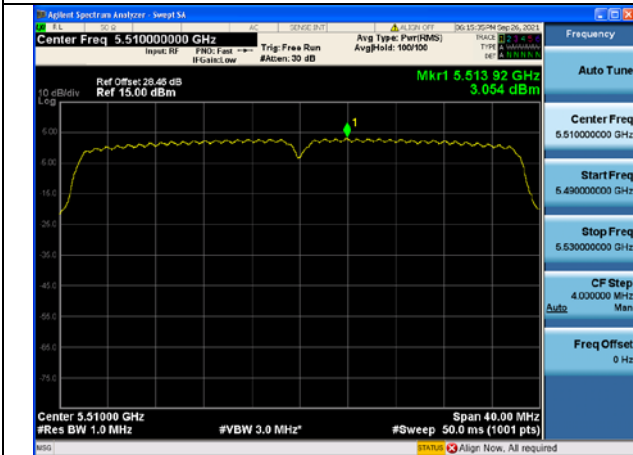
Test Mode:802. 11n HT20 Chain0



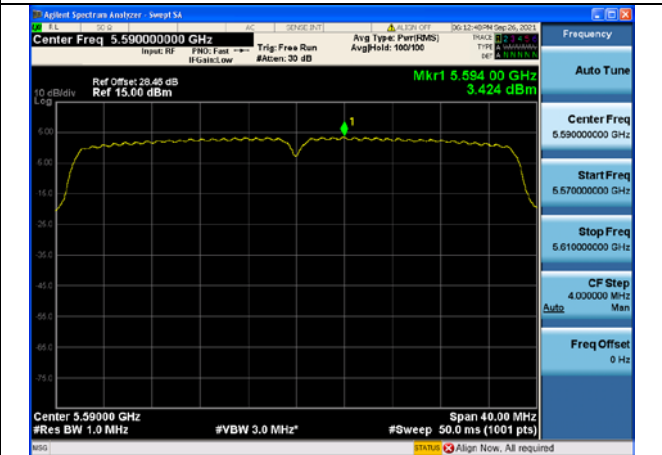
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5510	0	Chain0	3.054
5590		Chain0	3.424
5670		Chain0	4.126

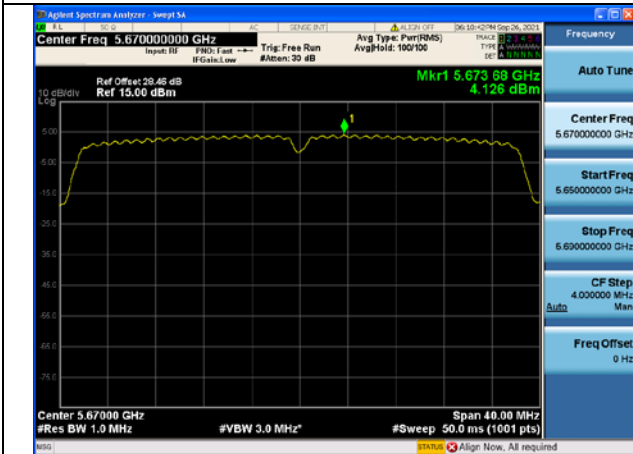
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain0



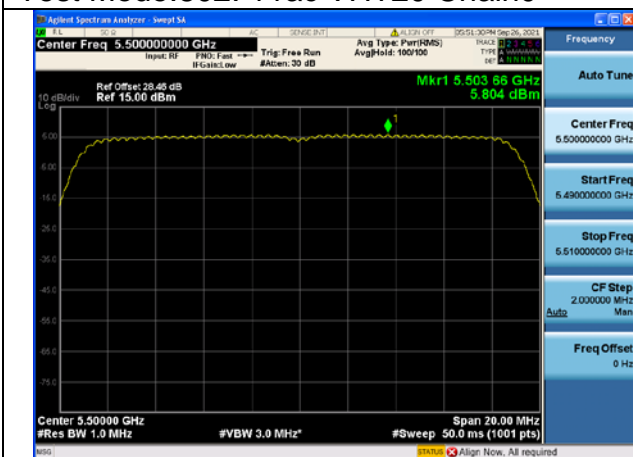
Test Mode:802. 11n HT40 Chain0



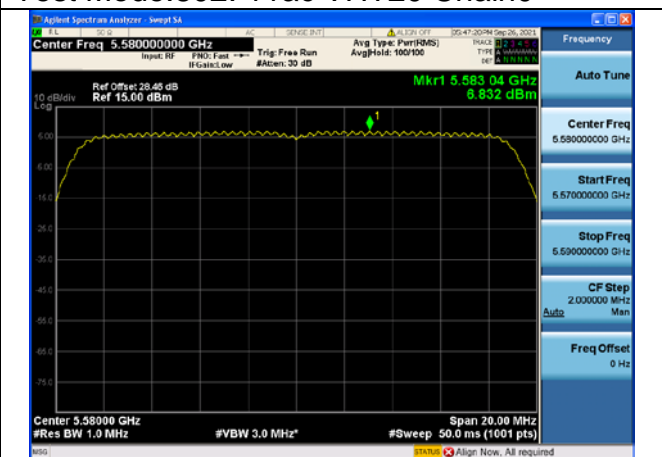
Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5500	0	Chain0	5.804
5580		Chain0	6.832
5700		Chain0	7.569

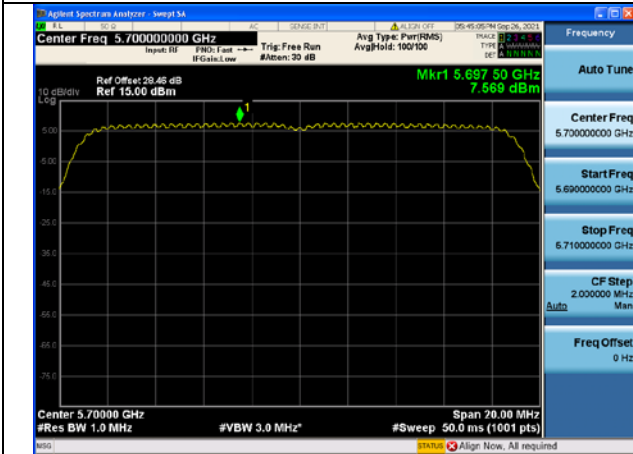
Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0



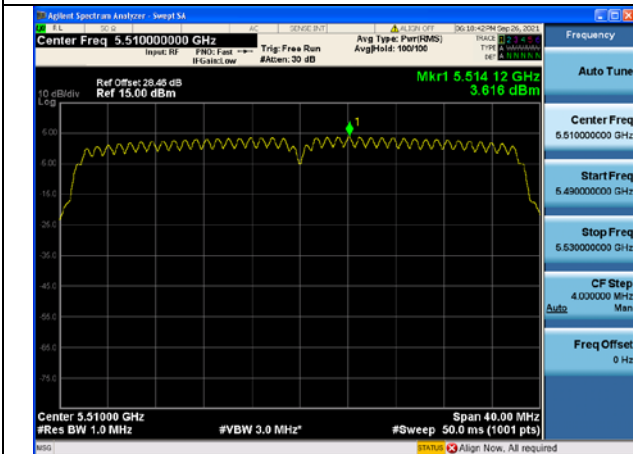
Test Mode:802. 11ac VHT20 Chain0



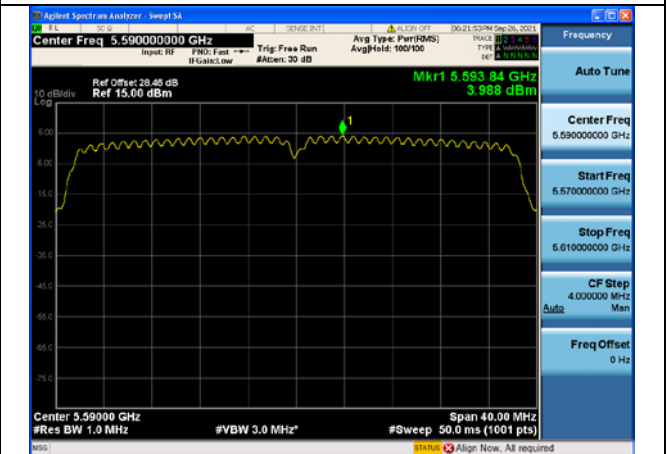
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5510	0	Chain0	3.616
5590		Chain0	3.988
5670		Chain0	4.086

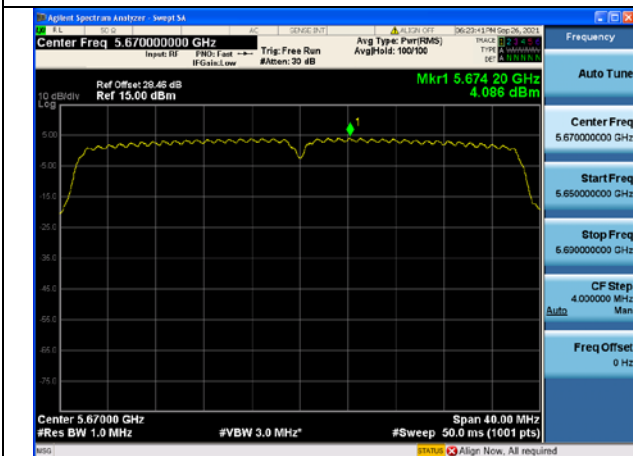
Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT40 Chain0



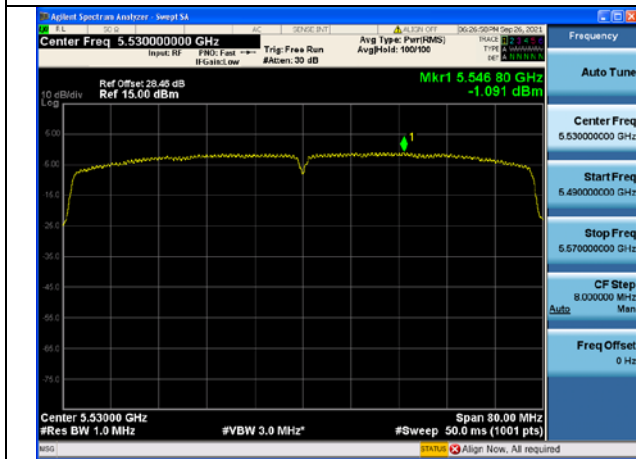
Test Mode:802. 11ac VHT40 Chain0



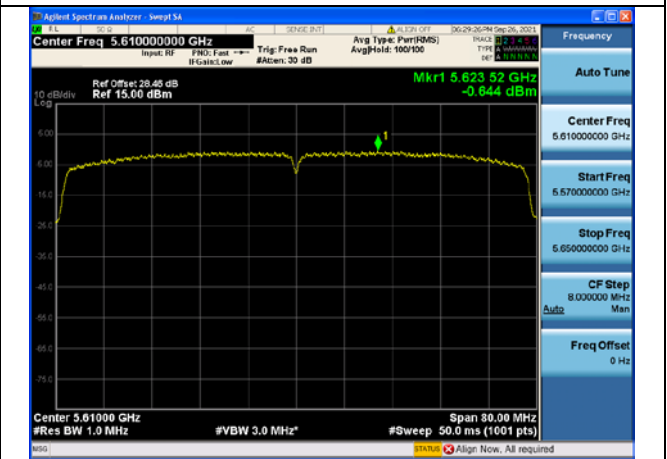
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5530	0	Chain0	-1.091
5610		Chain0	-0.644

Test Mode:802. 11ac VHT80 Chain0



Test Mode:802. 11ac VHT80 Chain0



ANT 1

Offset 6dB = Attenuator + Temporary antenna connector loss + Cable loss

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5500	79.33%	1.01
802. 11n HT20	5500	93.57%	0.29
802. 11n HT40	5510	89.54%	0.48
802. 11ac VHT20	5500	93.51%	0.29
802. 11ac VHT40	5510	89.78%	0.47
802. 11ac VHT80	5530	86.57%	0.63

Output Power  
NII2C

Mode	Tones/ RUIndex	Freq (MHz)	Chain	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5500	Chain1	11.22	12.22
		5580	Chain1	12.02	13.02
		5700	Chain1	11.20	12.20
802.11n20M		5500	Chain1	17.70	18.00
		5580	Chain1	18.16	18.46
		5700	Chain1	17.65	17.95
802.11n40M		5510	Chain1	17.08	17.38

802.11ac20M	5590	Chain1	17.42	17.72
	5670	Chain1	16.83	17.13
	5500	Chain1	17.56	17.86
	5580	Chain1	18.19	18.49
	5700	Chain1	17.45	17.75
802.11ac40M	5510	Chain1	17.07	17.37
	5590	Chain1	17.37	17.67
	5670	Chain1	16.80	17.10
802.11ac80M	5530	Chain1	15.84	16.14
	5610	Chain1	15.55	15.85

## Emission Bandwidth

Test Mode:802.11a

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5500	Chain1	21.89
5580	Chain1	18.77
5700	Chain1	18.84

Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



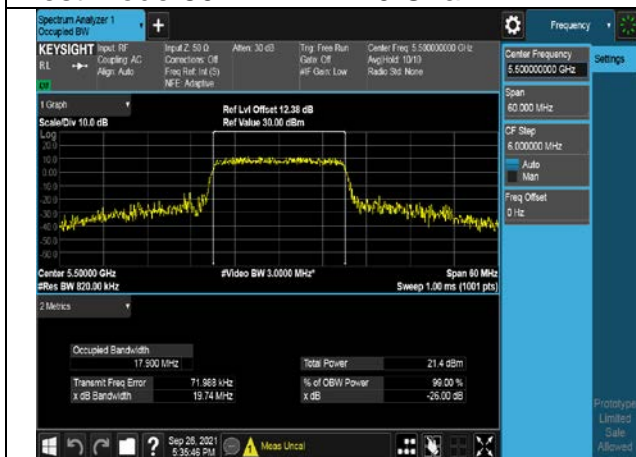
Test Mode:802.11a Chain1



Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5500	Chain1	19.74
5580	Chain1	20.36
5700	Chain1	20.27

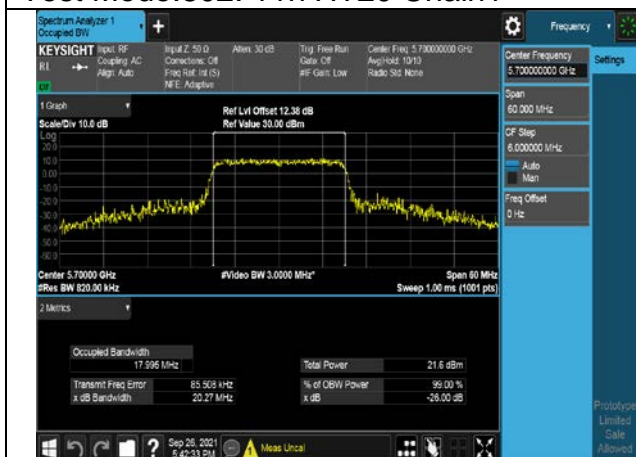
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



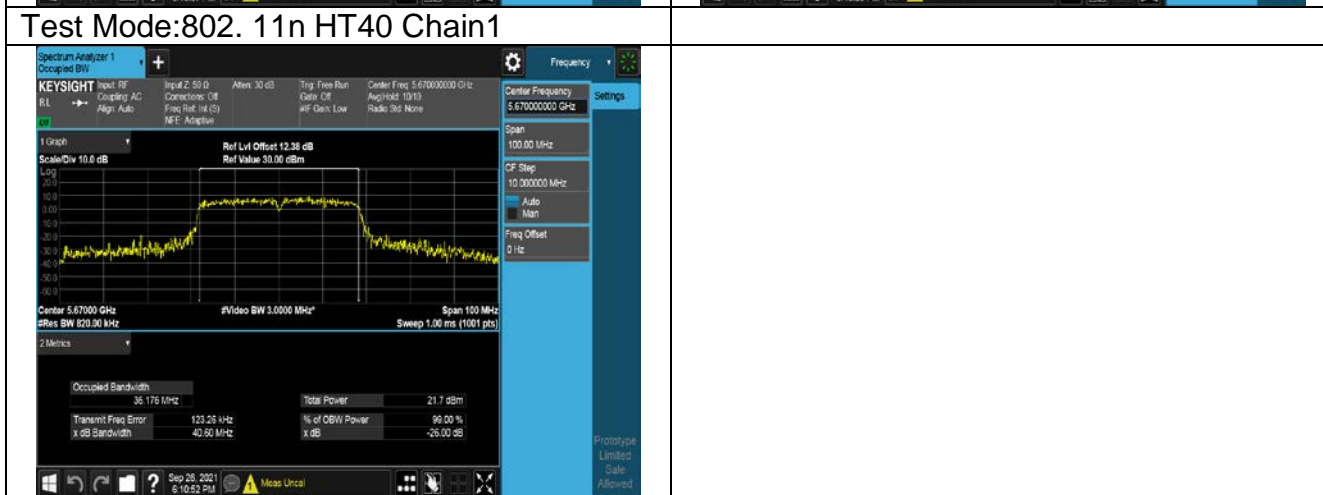
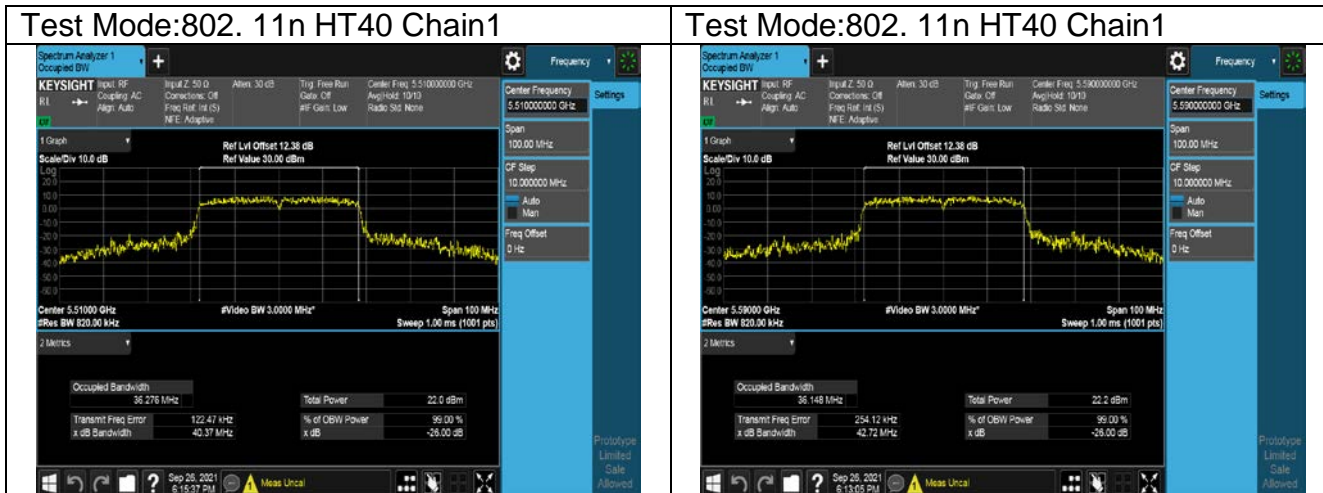
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT40

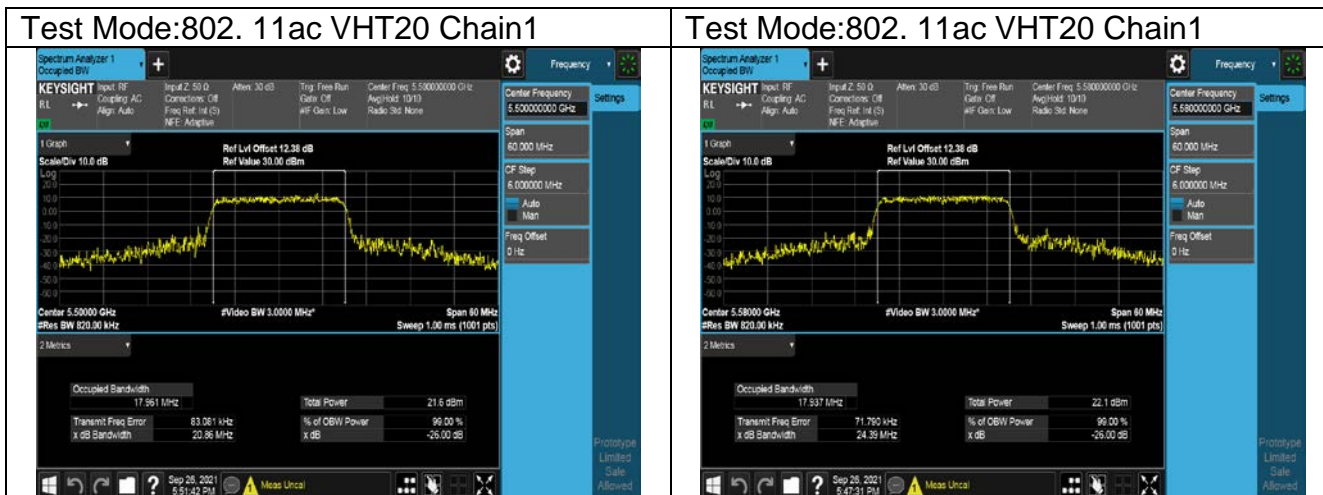
Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5510	Chain1	40.37
5590	Chain1	42.72
5670	Chain1	40.60



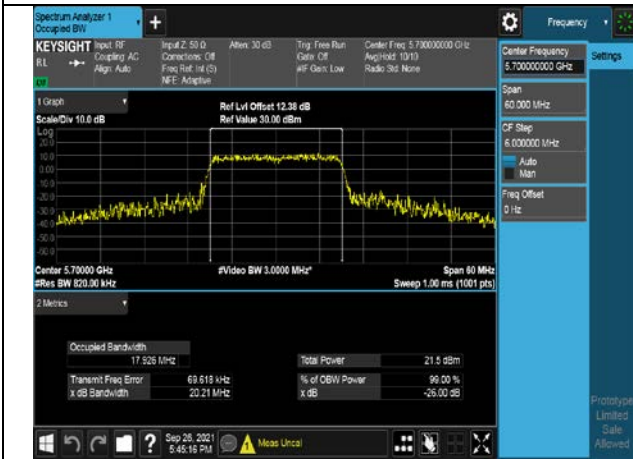


**Test Mode:802. 11ac VHT20**

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5500	Chain1	20.86
5580	Chain1	24.39
5700	Chain1	20.21



**Test Mode:802. 11ac VHT20 Chain1**



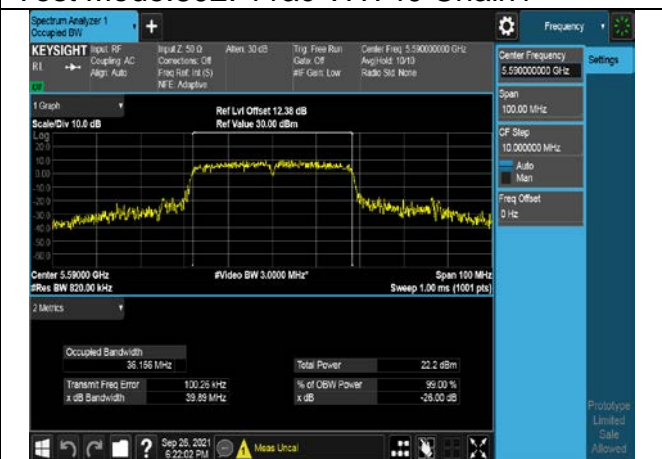
**Test Mode:802. 11ac VHT40**

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5510	Chain1	46.14
5590	Chain1	39.89
5670	Chain1	43.64

**Test Mode:802. 11ac VHT40 Chain1**



**Test Mode:802. 11ac VHT40 Chain1**



**Test Mode:802. 11ac VHT40 Chain1**



Test Mode:802.11ac VHT80

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5530	Chain1	80.26
5610	Chain1	79.30

Test Mode:802.11ac VHT80 Chain1



Test Mode:802.11ac VHT80 Chain1



Occupied Bandwidth

Test Mode:802.11a

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5500	Chain1	16.742
5580	Chain1	16.708
5700	Chain1	16.704

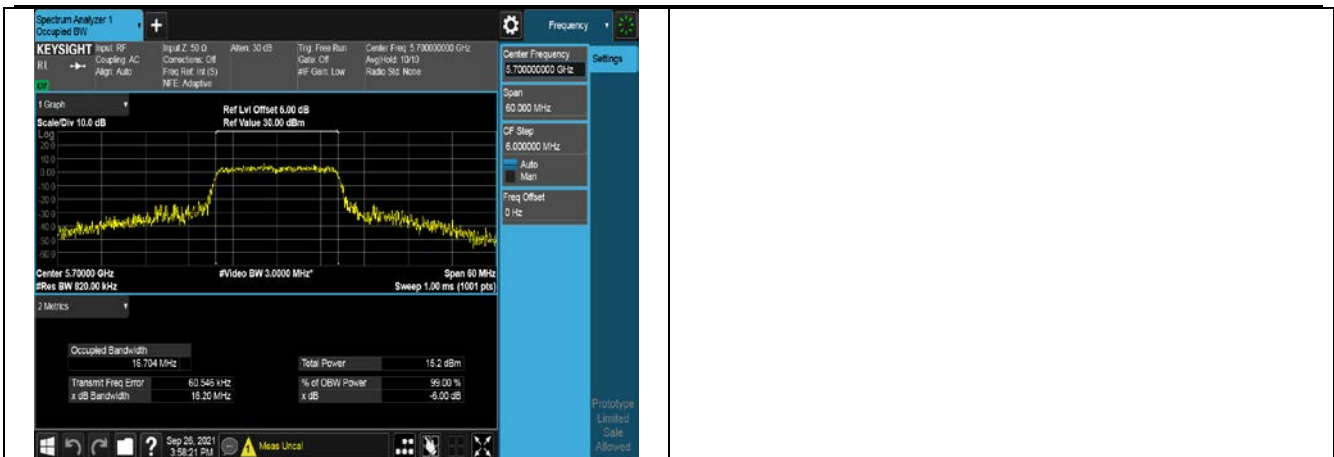
Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



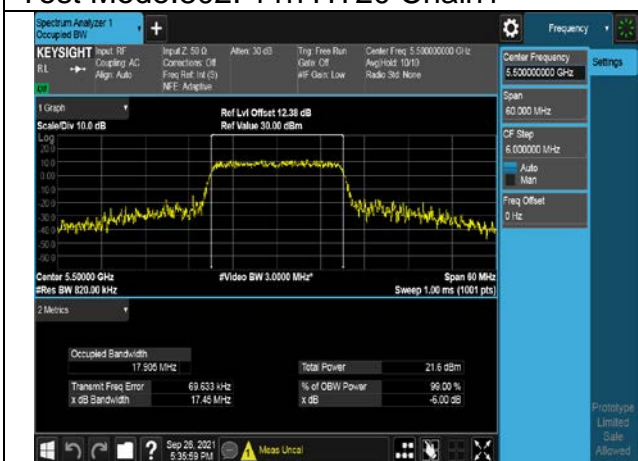
Test Mode:802.11a Chain1



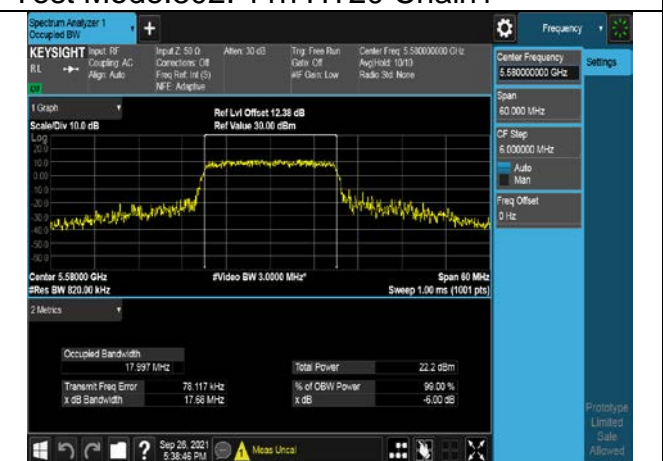
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5500	Chain1	17.905
5580	Chain1	17.997
5700	Chain1	17.899

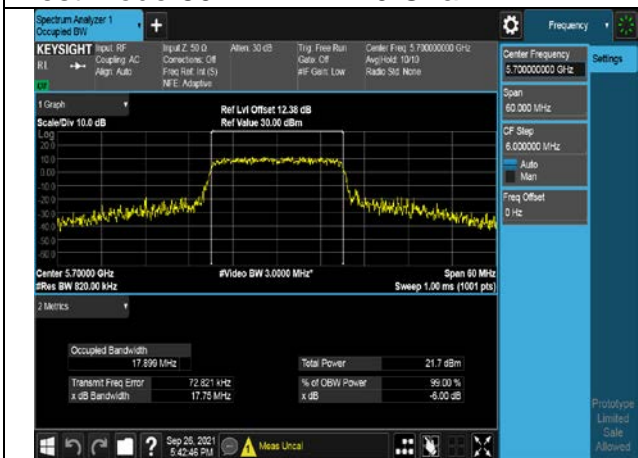
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



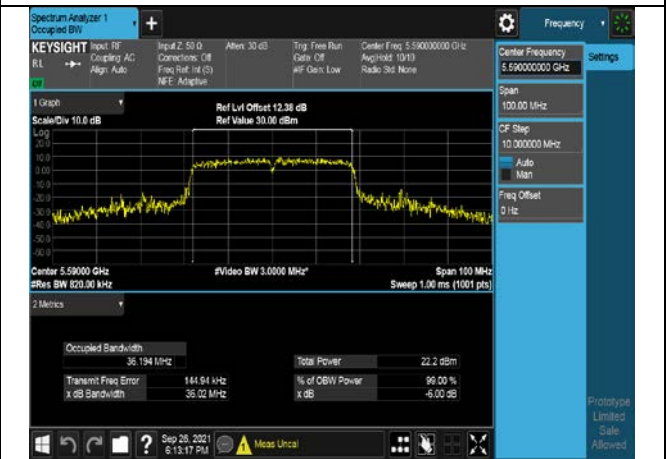
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5510	Chain1	36.242
5590	Chain1	36.194
5670	Chain1	36.227

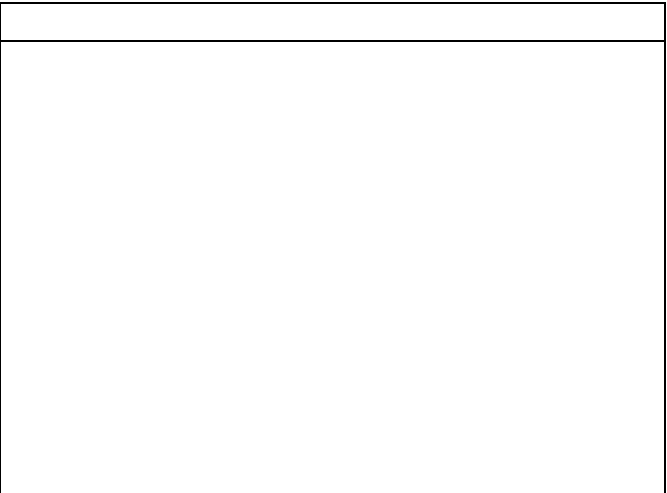
Test Mode:802. 11n HT40 Chain1



Test Mode:802. 11n HT40 Chain1



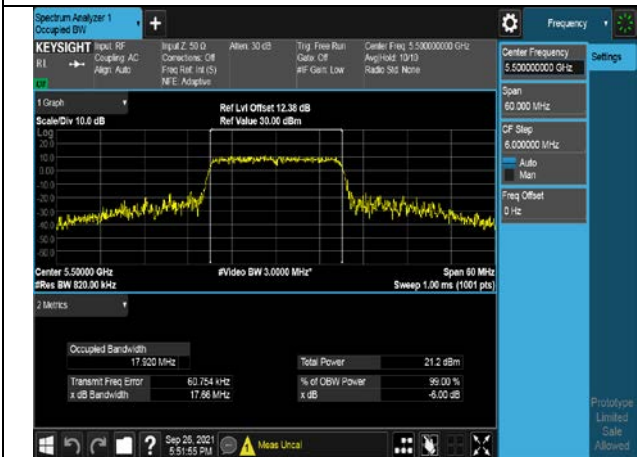
Test Mode:802. 11n HT40 Chain1



Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5500	Chain1	17.920
5580	Chain1	17.958
5700	Chain1	17.893

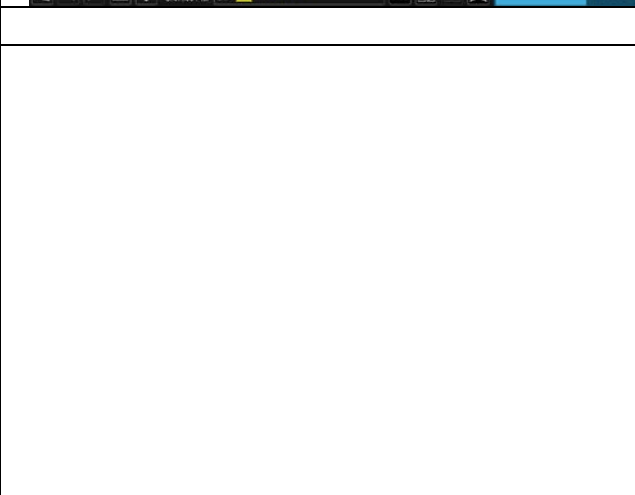
Test Mode:802. 11ac VHT20 Chain1



Test Mode:802. 11ac VHT20 Chain1



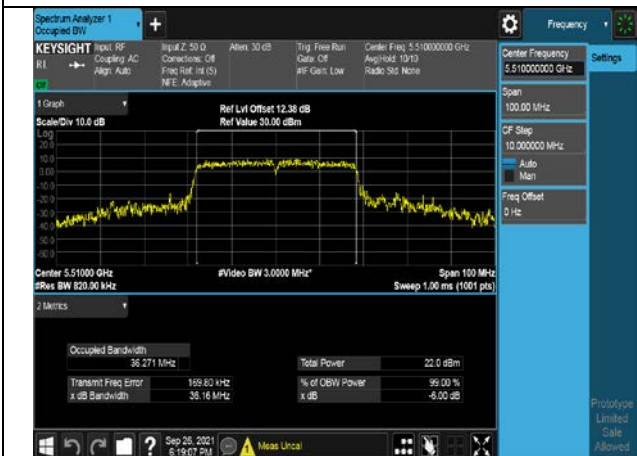
Test Mode:802. 11ac VHT20 Chain1



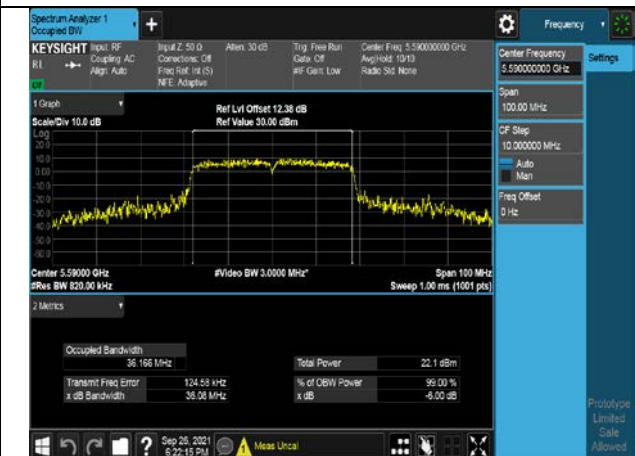
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5510	Chain1	36.271
5590	Chain1	36.166
5670	Chain1	36.214

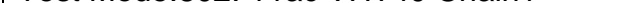
Test Mode:802. 11ac VHT40 Chain1

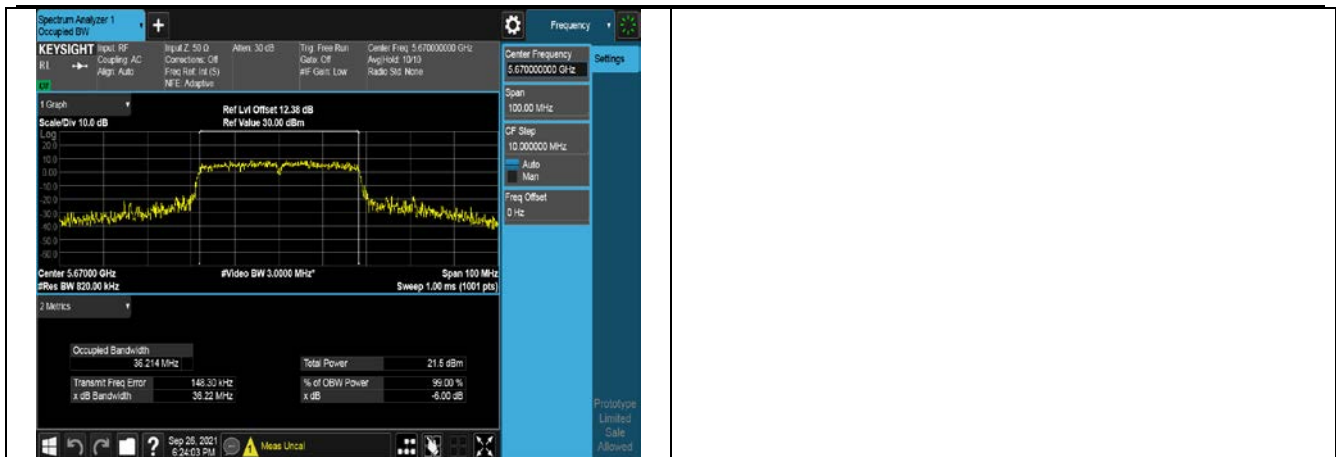


Test Mode:802. 11ac VHT40 Chain1



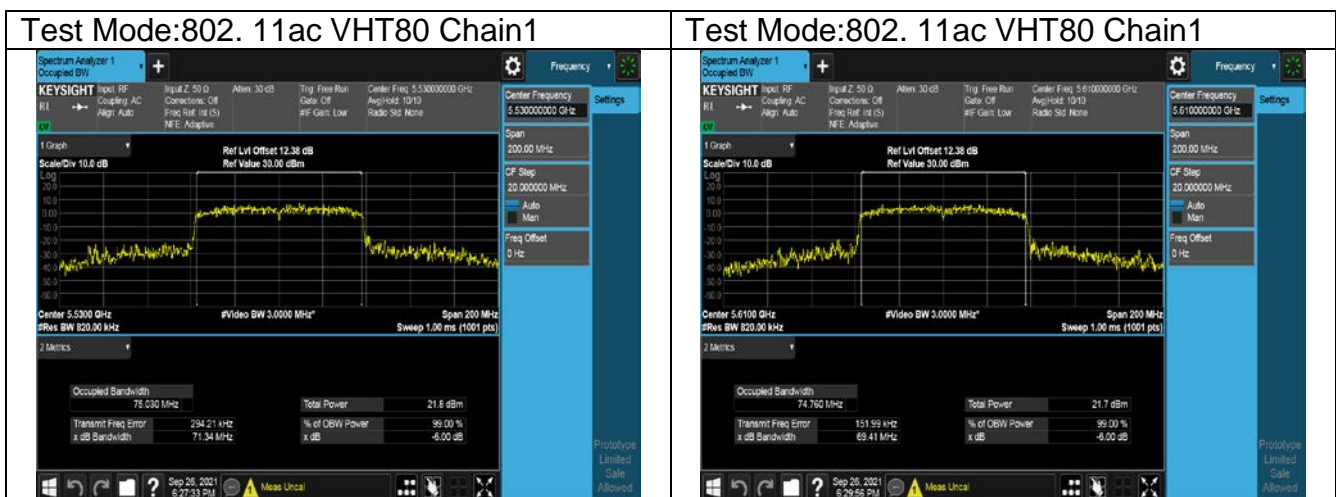
Test Mode:802. 11ac VHT40 Chain1





Test Mode:802.11ac VHT80

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5530	Chain1	75.030
5610	Chain1	74.760



Transmitter Power Spectral Density

Test Mode:802.11a

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5500	1.01	Chain1	0.844
5580		Chain1	1.559
5700		Chain1	0.696