

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Output Power
UNII-2C

Mode	Freq (MHz)	Chain	Conducted average power output(dBm)
802.11a	5500	Chain0	15.14
		Chain1	15.32
	5580	Chain0	15.11
		Chain1	15.66
	5700	Chain0	15.43
		Chain1	15.51
802.11n20M	5500	Chain0	14.58
		Chain1	14.86
		Chain0+Chain1	17.73
	5580	Chain0	14.50
		Chain1	15.10
		Chain0+Chain1	17.82
	5700	Chain0	14.75
		Chain1	15.48
		Chain0+Chain1	18.14
802.11n40M	5510	Chain0	14.42
		Chain1	15.04
		Chain0+Chain1	17.75
	5590	Chain0	14.43
		Chain1	15.09
		Chain0+Chain1	17.78
	5670	Chain0	14.55
		Chain1	15.30
		Chain0+Chain1	17.95
802.11ac20M	5500	Chain0	14.59
		Chain1	14.99
		Chain0+Chain1	17.80
	5580	Chain0	14.52
		Chain1	15.02
		Chain0+Chain1	17.79
	5700	Chain0	14.79
		Chain1	15.30
		Chain0+Chain1	18.06
802.11ac40M	5510	Chain0	14.45

		Chain1	15.06
		Chain0+Chain1	17.78
	5590	Chain0	14.46
		Chain1	15.19
		Chain0+Chain1	17.85
	5670	Chain0	14.66
		Chain1	15.30
		Chain0+Chain1	18.00
802.11ac80M	5530	Chain0	9.42
		Chain1	9.78
		Chain0+Chain1	12.61
	5610	Chain0	9.21
		Chain1	9.94
		Chain0+Chain1	12.60

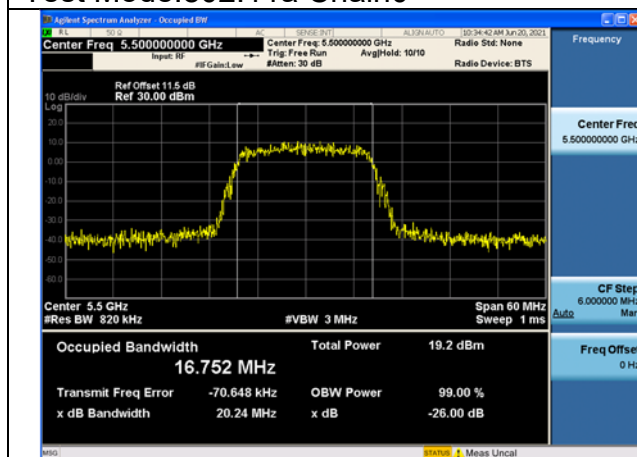
Emission Bandwidth

Offset 11.5dB = Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1dB

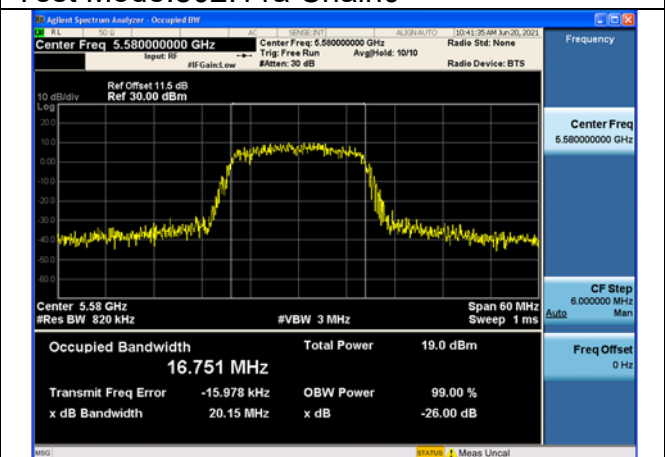
Test Mode:802.11a

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5500	Chain0	20.24
	Chain1	20.25
5580	Chain0	20.15
	Chain1	19.63
5700	Chain0	19.98
	Chain1	20.21

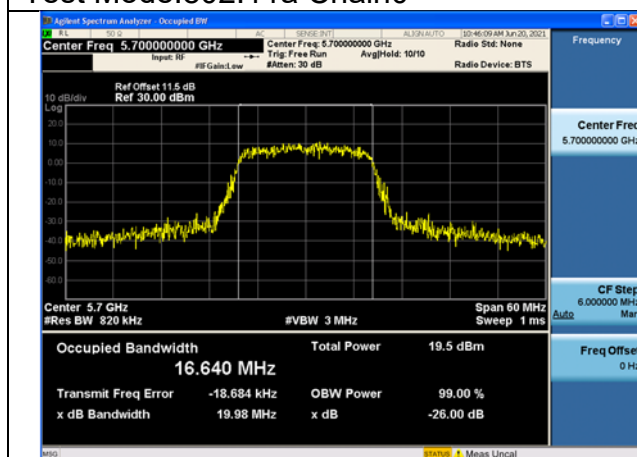
Test Mode:802.11a Chain0



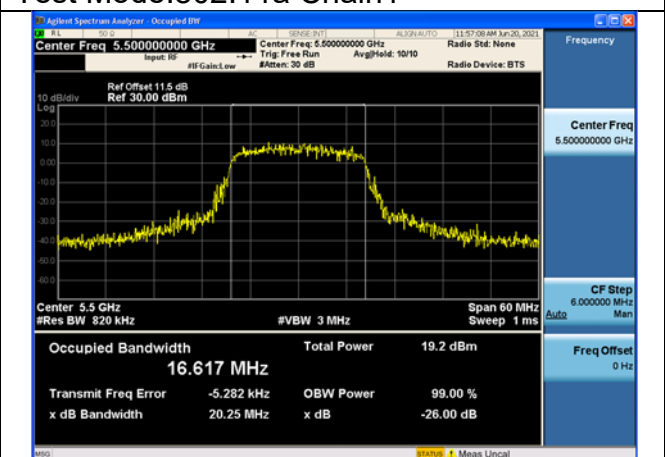
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0

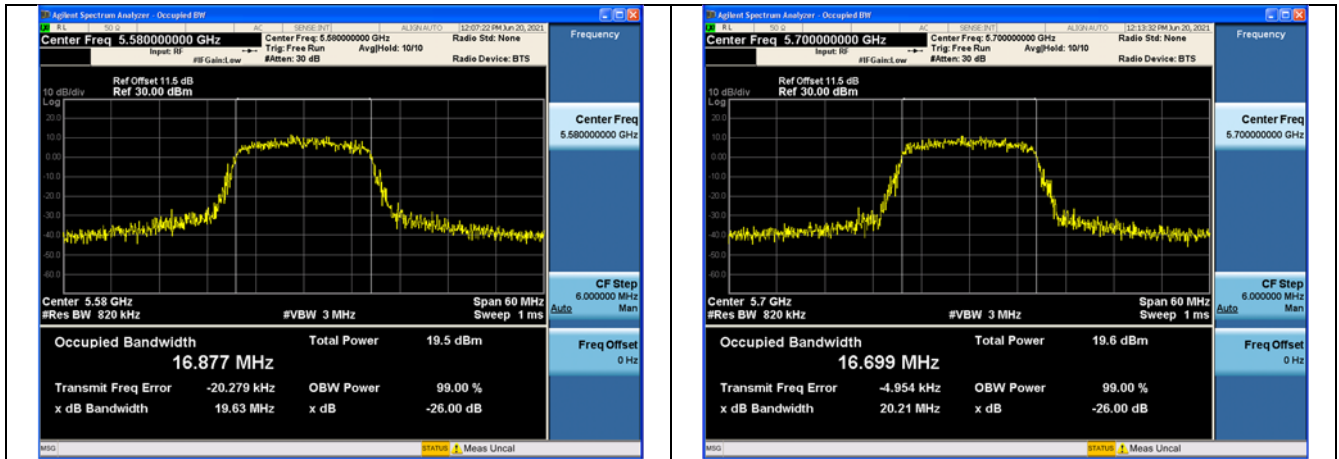


Test Mode:802.11a Chain1



Test Mode:802.11a Chain1

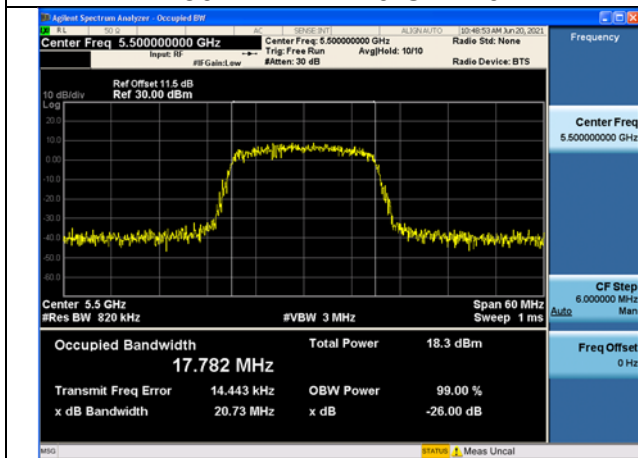
Test Mode:802.11a Chain1



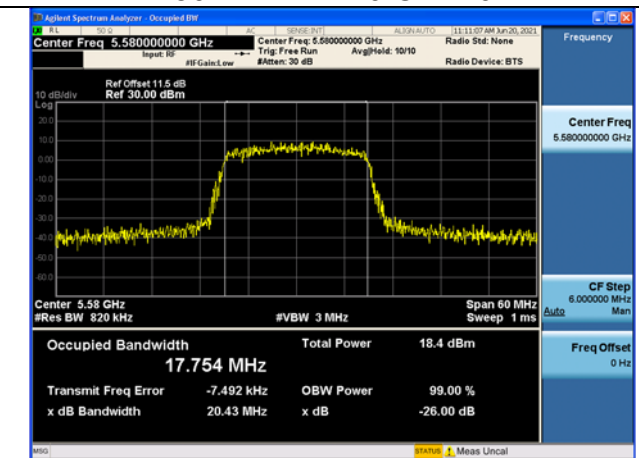
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5500	Chain0	20.73
	Chain1	20.62
5580	Chain0	20.43
	Chain1	20.55
5700	Chain0	20.13
	Chain1	20.79

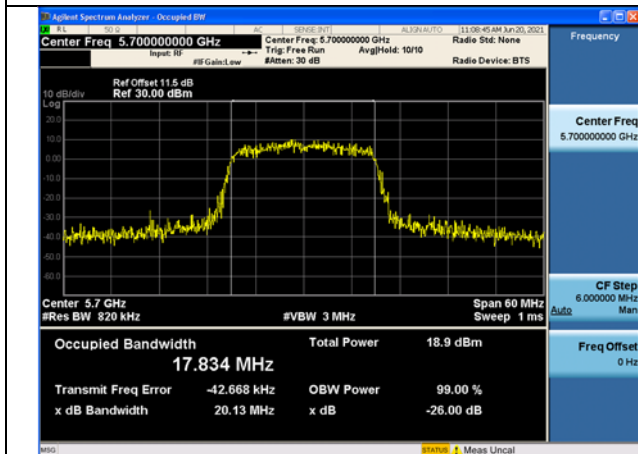
Test Mode:802. 11n HT20 Chain0



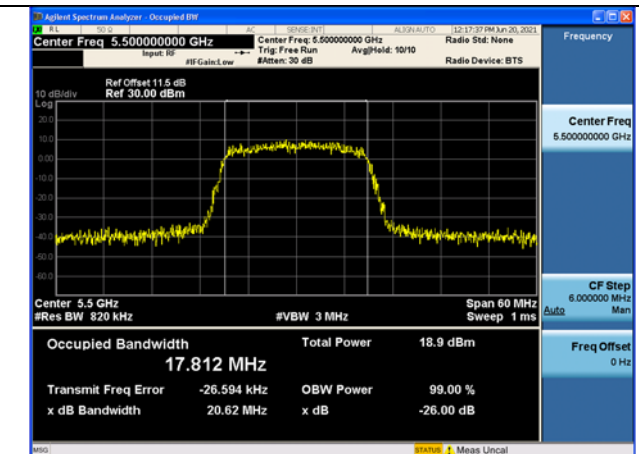
Test Mode:802. 11n HT20 Chain0



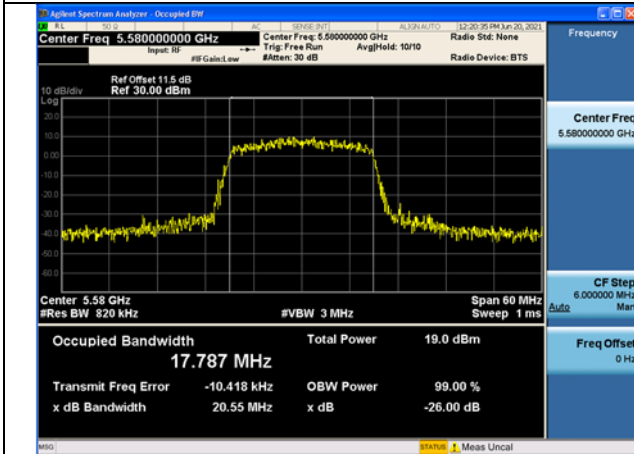
Test Mode:802. 11n HT20 Chain0



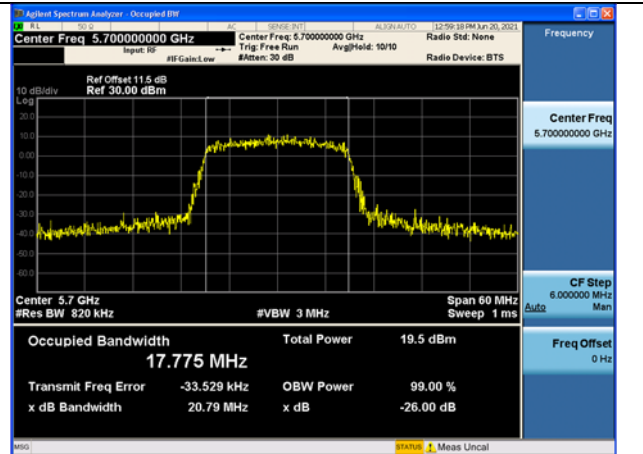
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



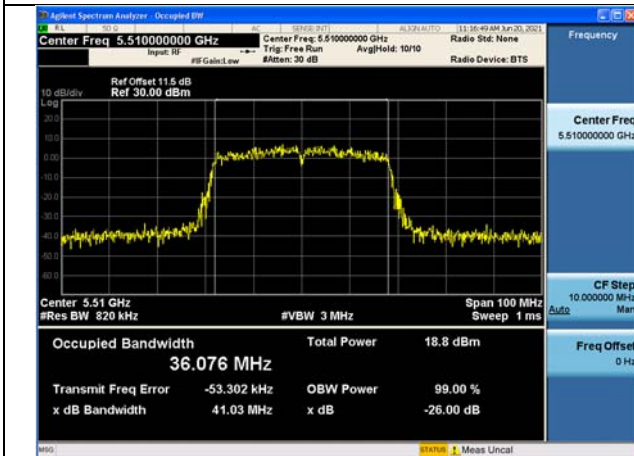
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5510	Chain0	41.03
	Chain1	39.84
5590	Chain0	40.06
	Chain1	39.96
5670	Chain0	40.29
	Chain1	40.26

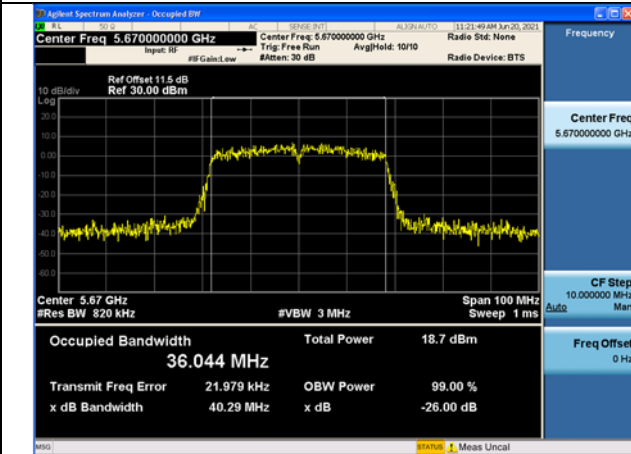
Test Mode:802. 11n HT40 Chain0



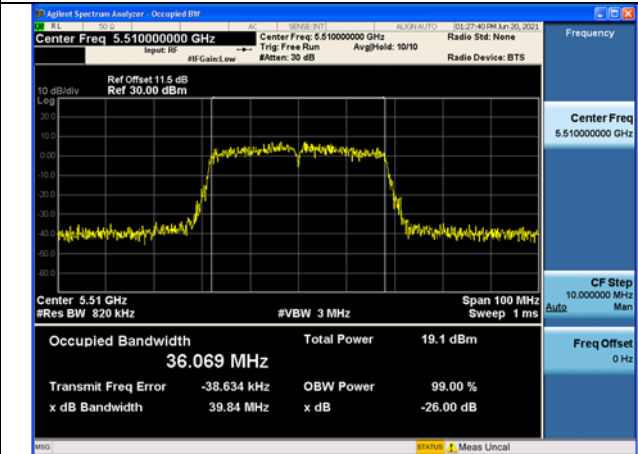
Test Mode:802. 11n HT40 Chain0



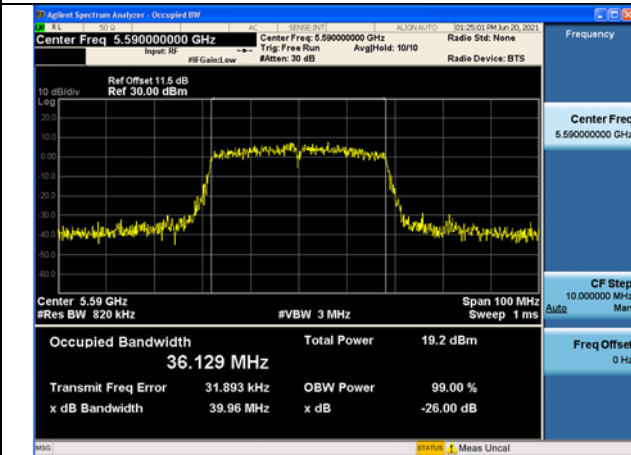
Test Mode:802. 11n HT40 Chain0



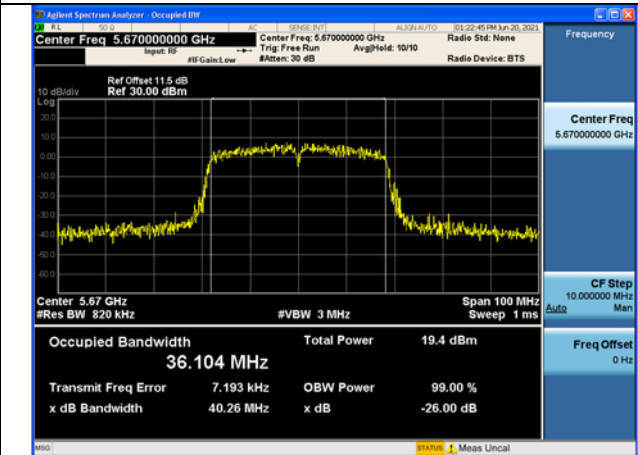
Test Mode:802. 11n HT40 Chain1



Test Mode:802. 11n HT40 Chain1



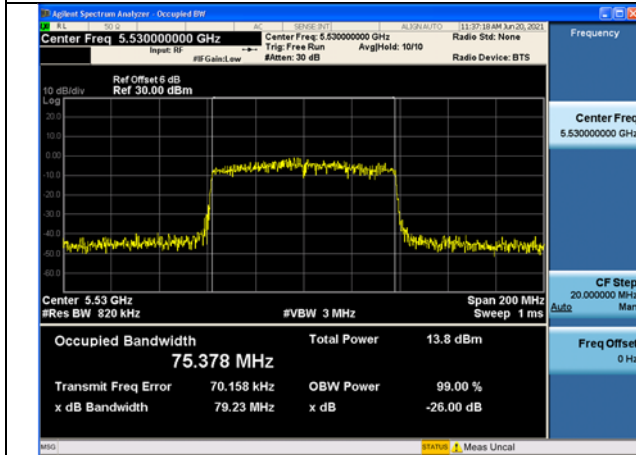
Test Mode:802. 11n HT40 Chain1



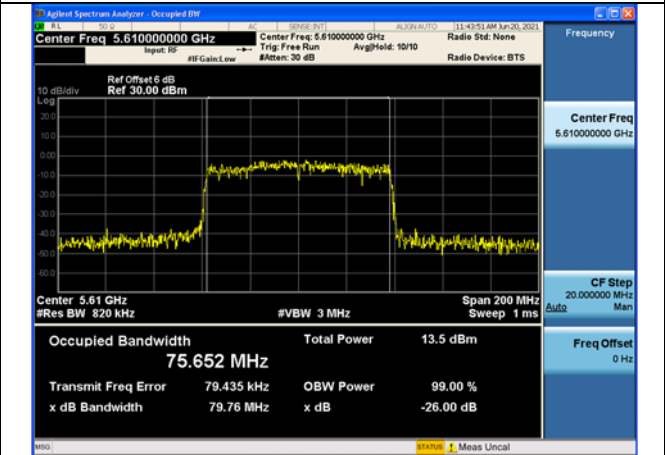
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5530	Chain0	79.23
	Chain1	79.39
5610	Chain0	79.76
	Chain1	80.11

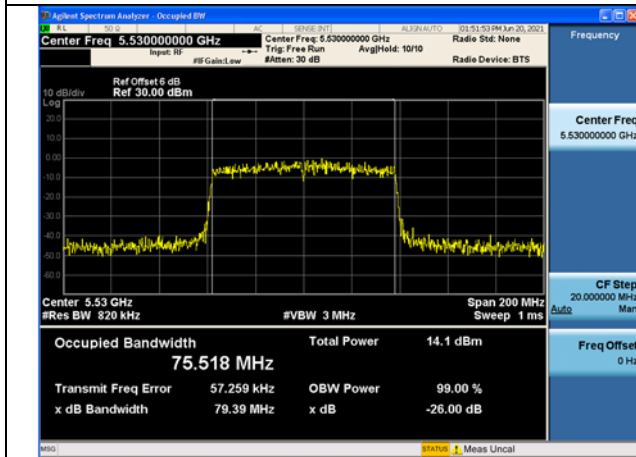
Test Mode:802. 11ac VHT80 Chain0



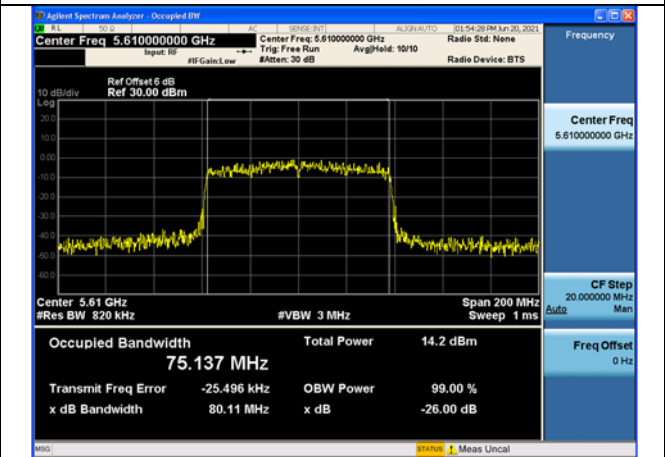
Test Mode:802. 11ac VHT80 Chain0



Test Mode:802. 11ac VHT80 Chain1



Test Mode:802. 11ac VHT80 Chain1



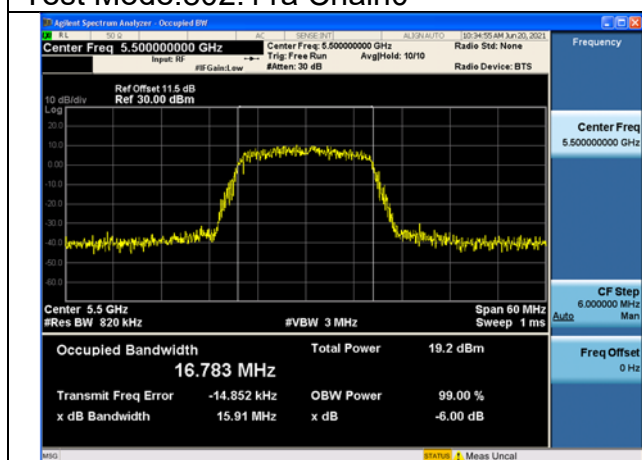
Occupied Bandwidth

Offset 11.5dB = Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1dB

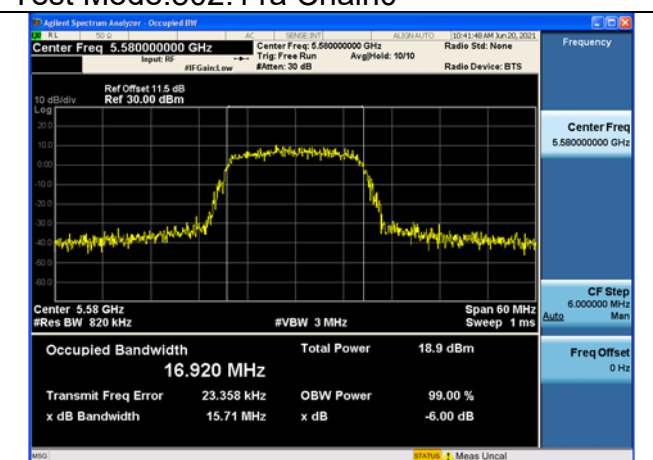
Test Mode:802.11a

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5500	Chain0	16.783
	Chain1	16.819
5580	Chain0	16.920
	Chain1	16.760
5700	Chain0	16.661
	Chain1	16.762

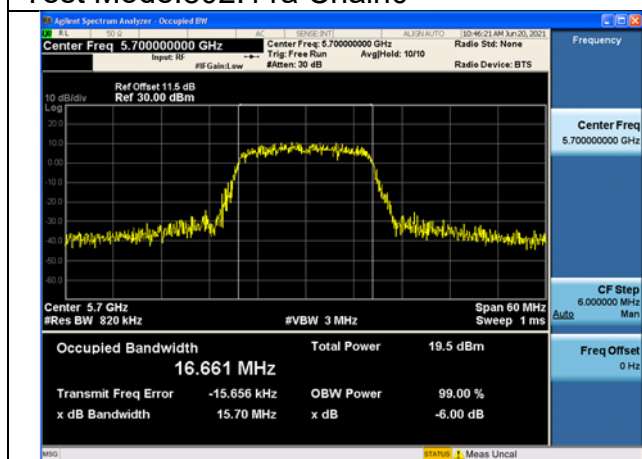
Test Mode:802.11a Chain0



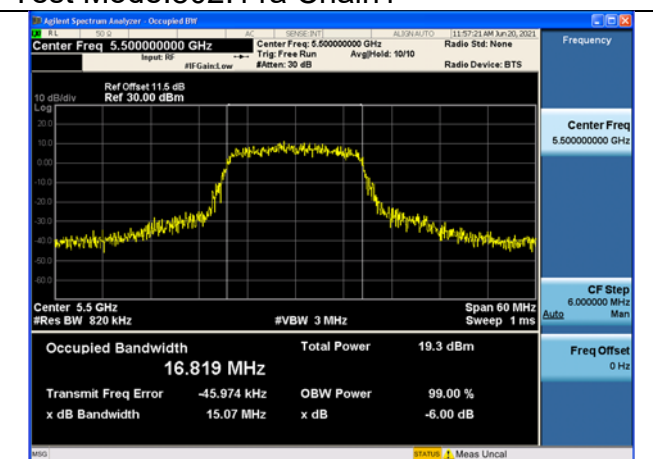
Test Mode:802.11a Chain0



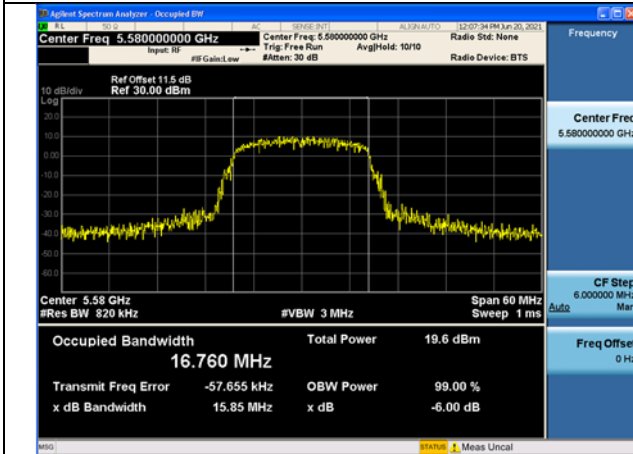
Test Mode:802.11a Chain0



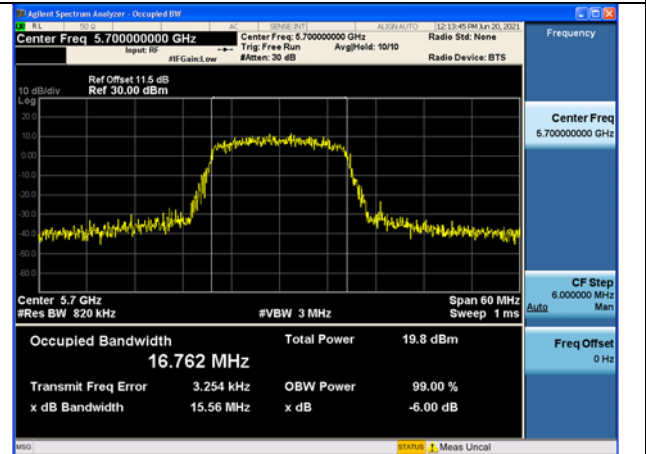
Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



Test Mode:802.11n HT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5500	Chain0	17.844
	Chain1	17.796
5580	Chain0	17.764
	Chain1	17.782
5700	Chain0	17.810
	Chain1	17.875

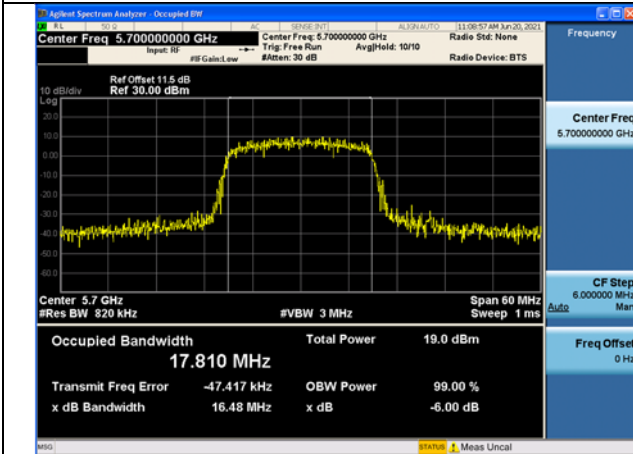
Test Mode:802.11n HT20 Chain0



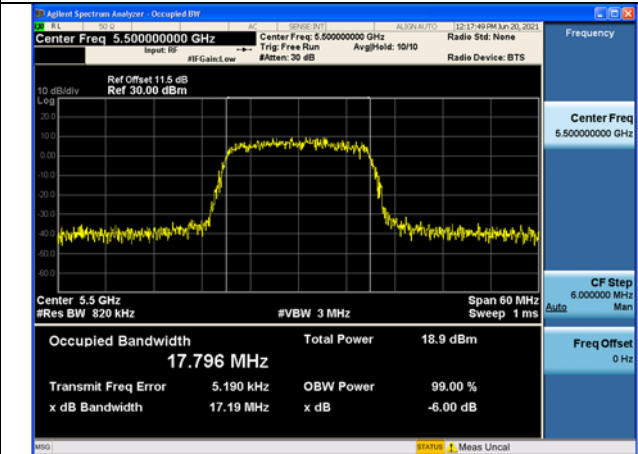
Test Mode:802.11n HT20 Chain0



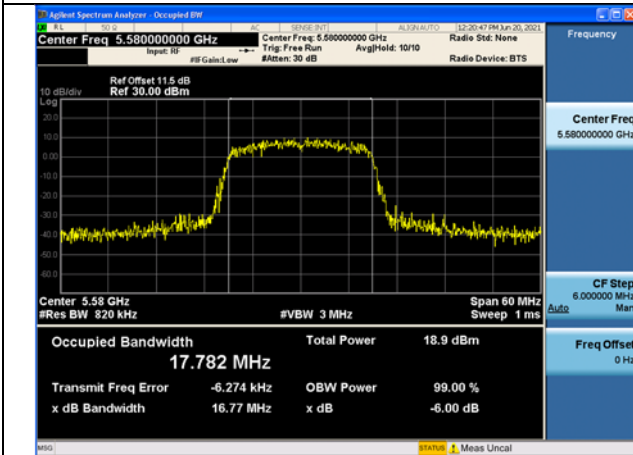
Test Mode:802. 11n HT20 Chain0



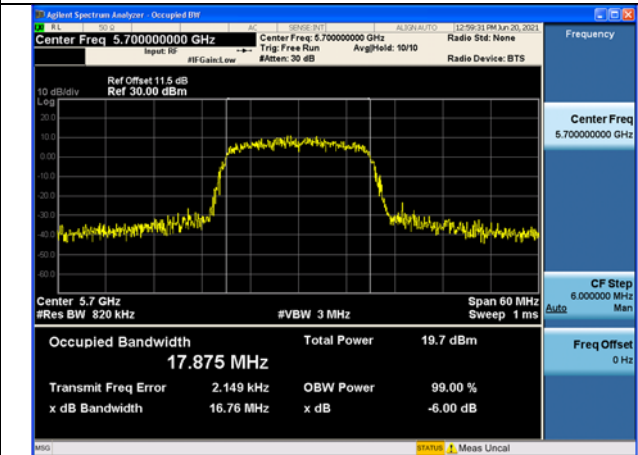
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



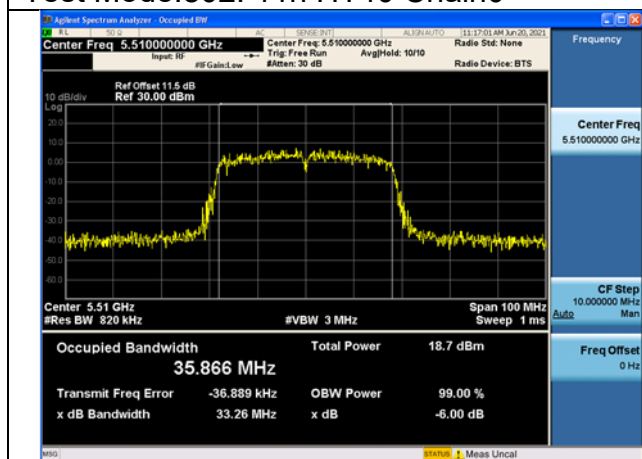
Test Mode:802. 11n HT20 Chain1



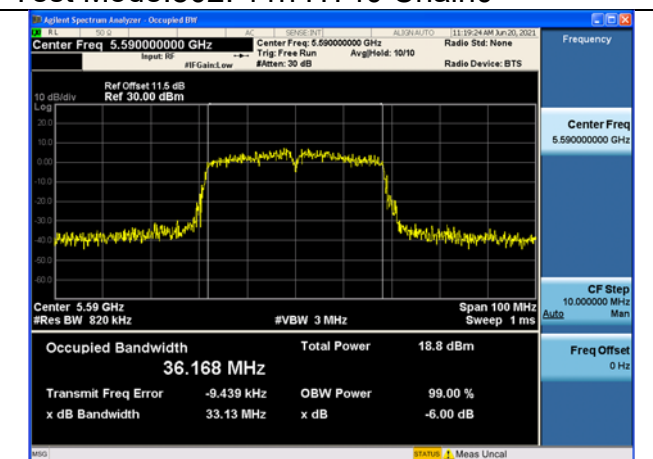
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5510	Chain0	35.866
	Chain1	35.973
5590	Chain0	36.168
	Chain1	36.034
5670	Chain0	36.041
	Chain1	35.991

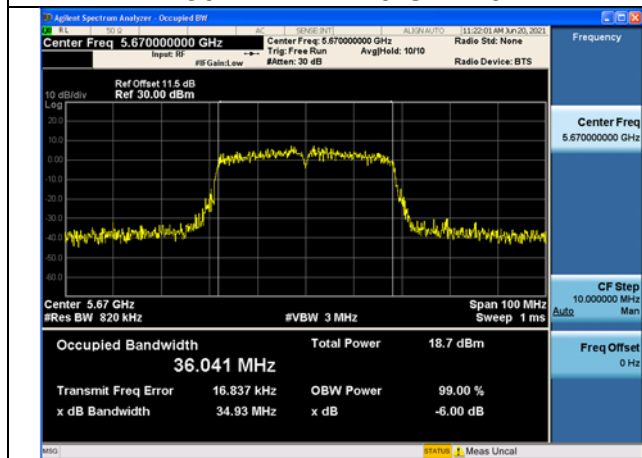
Test Mode:802. 11n HT40 Chain0



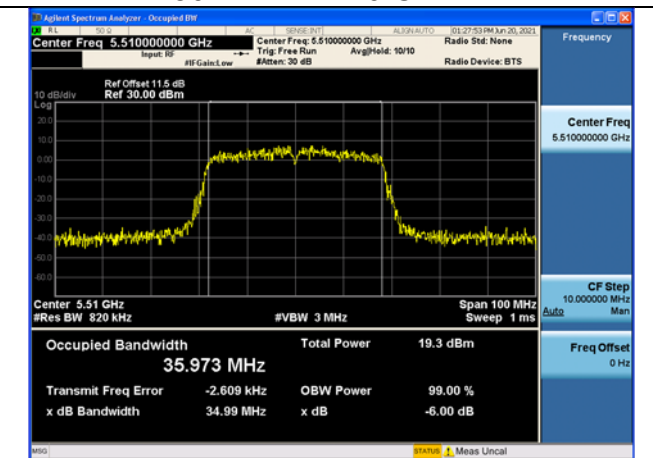
Test Mode:802. 11n HT40 Chain0



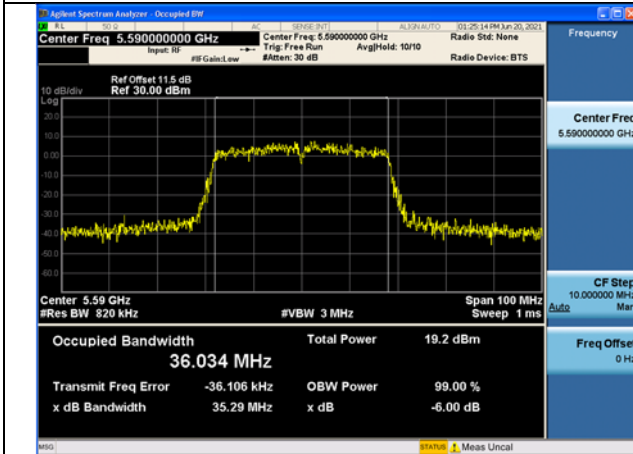
Test Mode:802. 11n HT40 Chain0



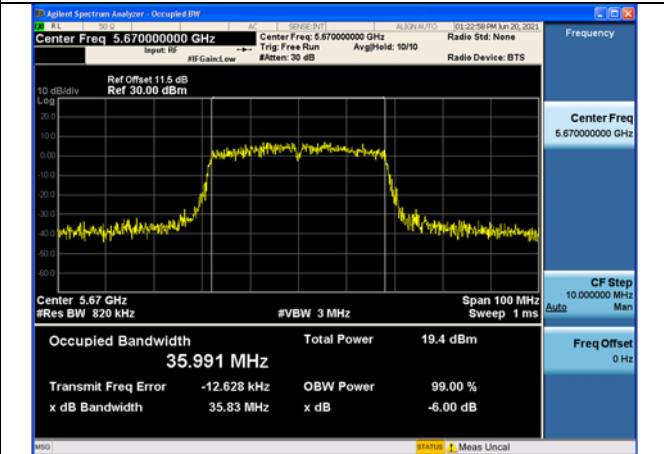
Test Mode:802. 11n HT40 Chain1



Test Mode:802. 11n HT40 Chain1



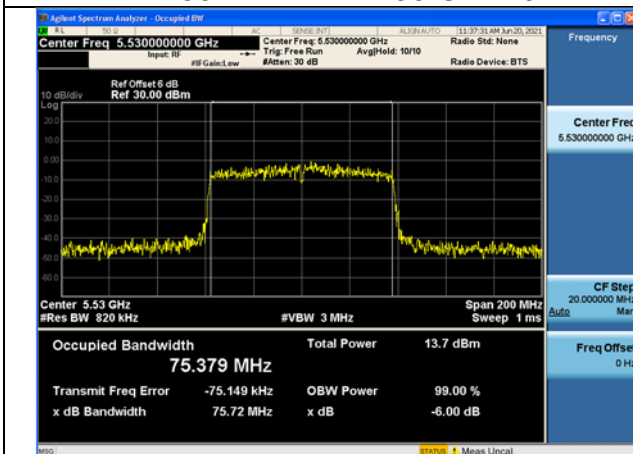
Test Mode:802. 11n HT40 Chain1



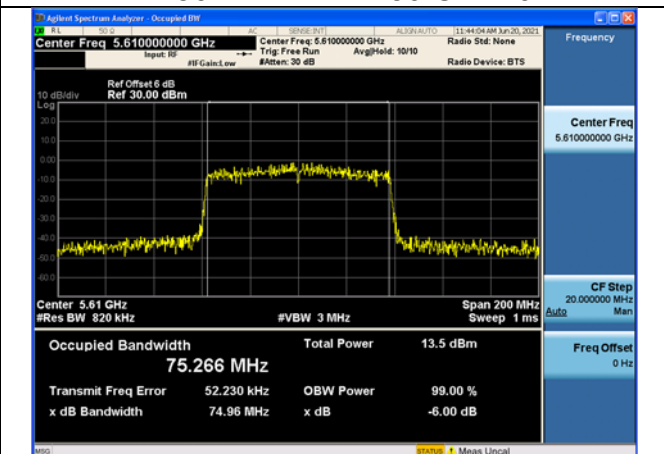
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5530	Chain0	75.379
	Chain1	75.445
5610	Chain0	75.266
	Chain1	75.386

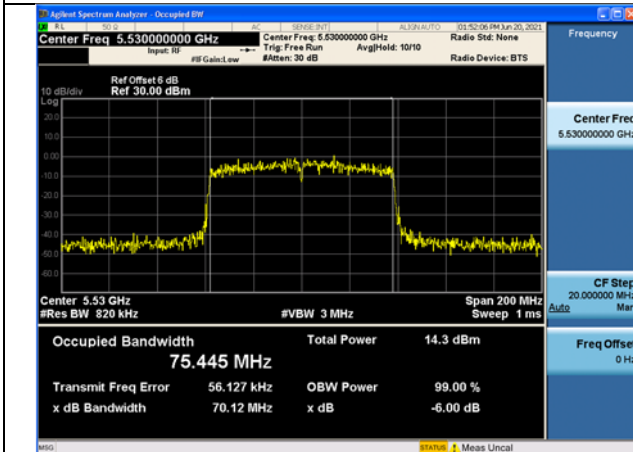
Test Mode:802. 11ac VHT80 Chain0



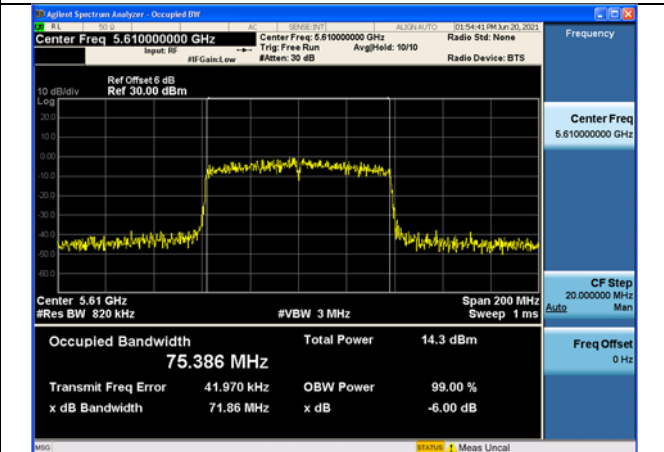
Test Mode:802. 11ac VHT80 Chain0



Test Mode:802. 11ac VHT80 Chain1



Test Mode:802. 11ac VHT80 Chain1



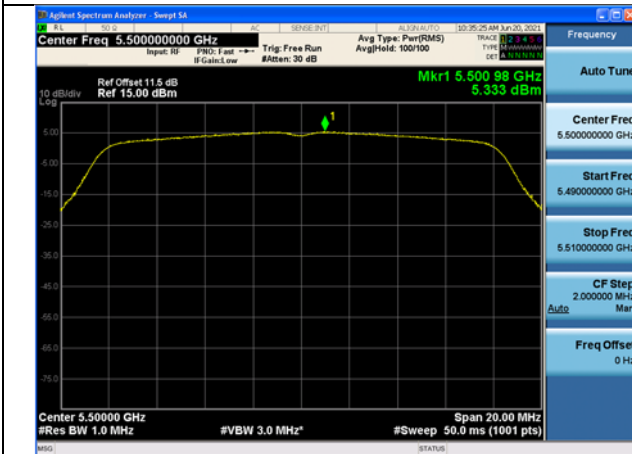
Transmitter Power Spectral Density

Offset 11.5dB = Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1dB

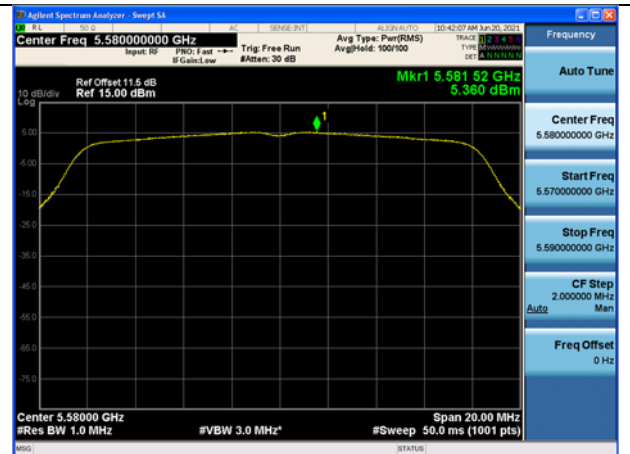
Test Mode:802.11a

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5500	0.17	Chain0	5.503
		Chain1	5.907
5580		Chain0	5.620
		Chain1	6.041
5700		Chain0	5.838
		Chain1	5.962

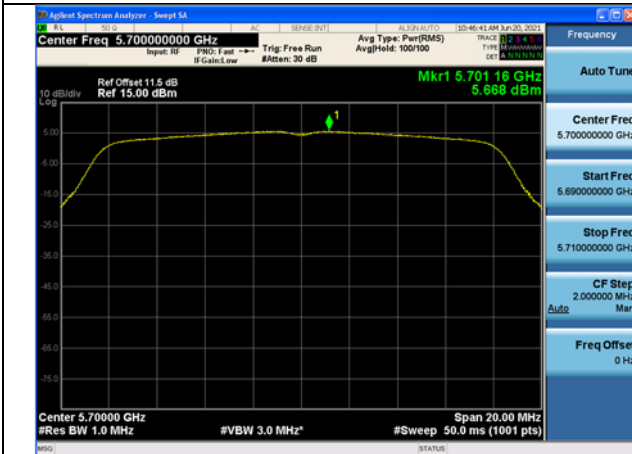
Test Mode:802.11a Chain0



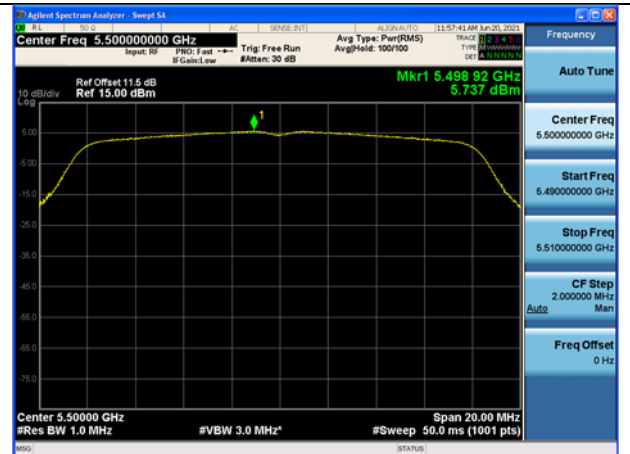
Test Mode:802.11a Chain0



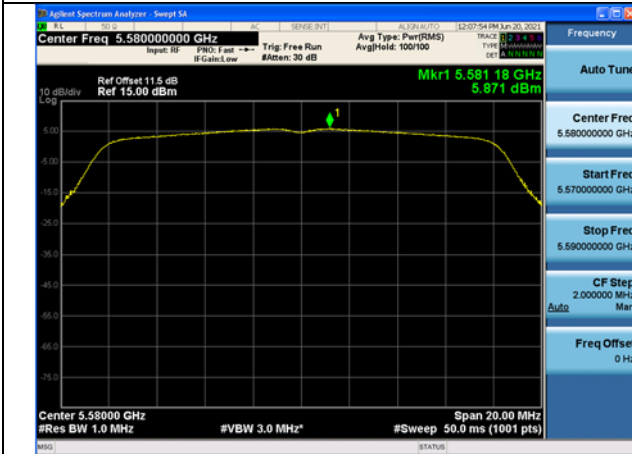
Test Mode:802.11a Chain0



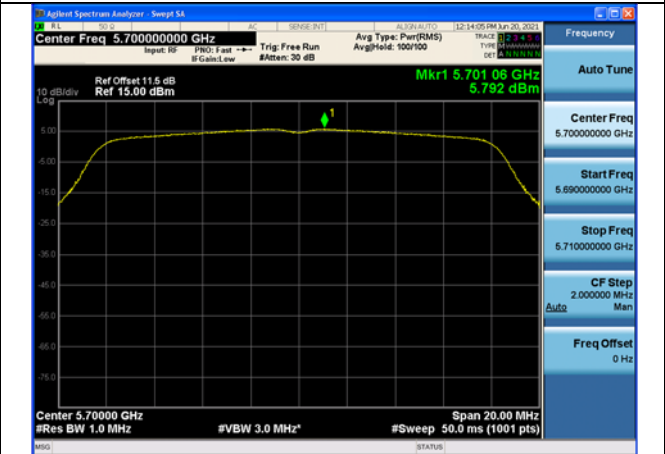
Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



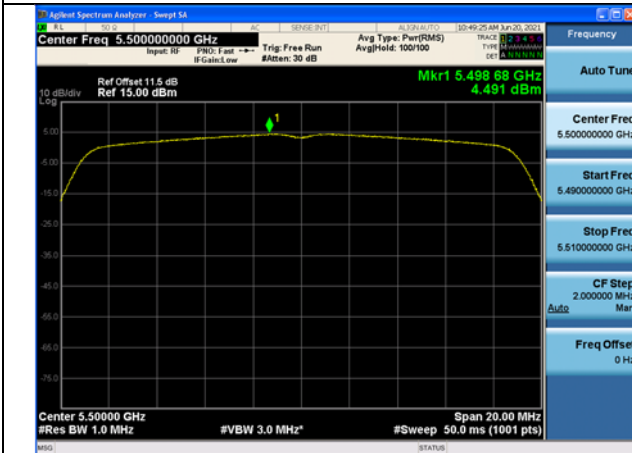
Test Mode:802.11a Chain1



Test Mode:802.11n HT20

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5500	0.18	Chain0	4.671
		Chain1	5.143
		Chain0+Chain1	7.924
5580		Chain0	4.814
		Chain1	5.147
		Chain0+Chain1	7.994
5700		Chain0	5.102
		Chain1	5.947
		Chain0+Chain1	8.555

Test Mode:802.11n HT20 Chain0

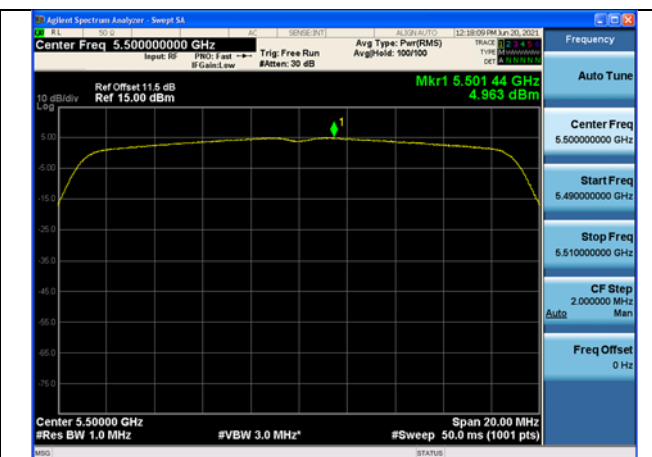
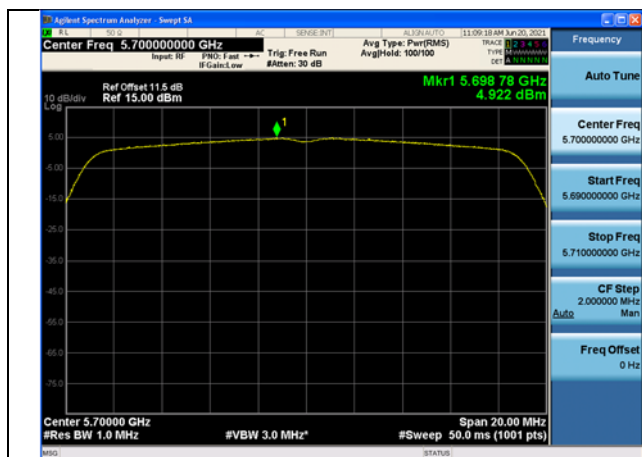


Test Mode:802.11n HT20 Chain0



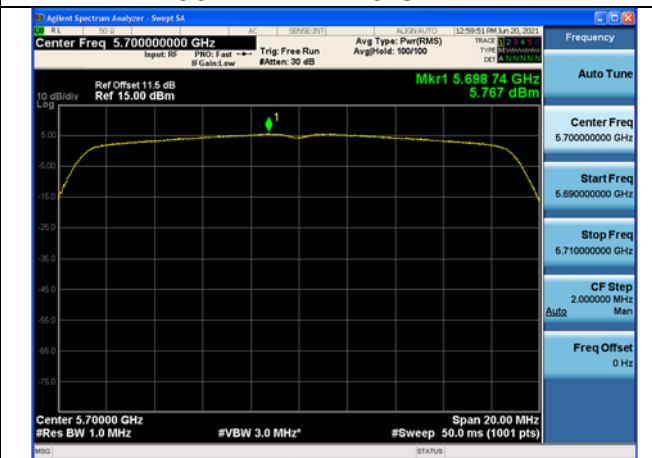
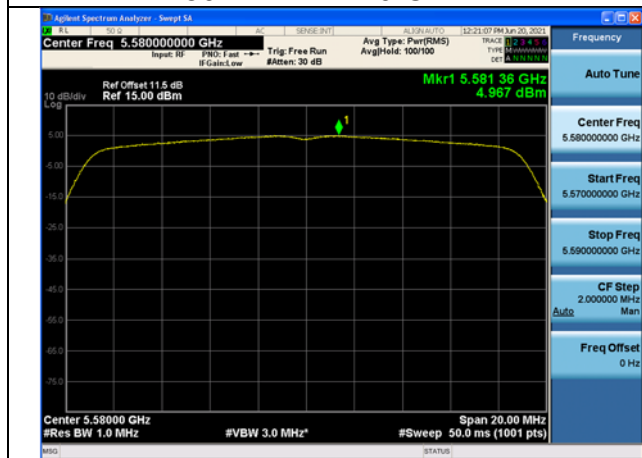
Test Mode:802.11n HT20 Chain0

Test Mode:802.11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1

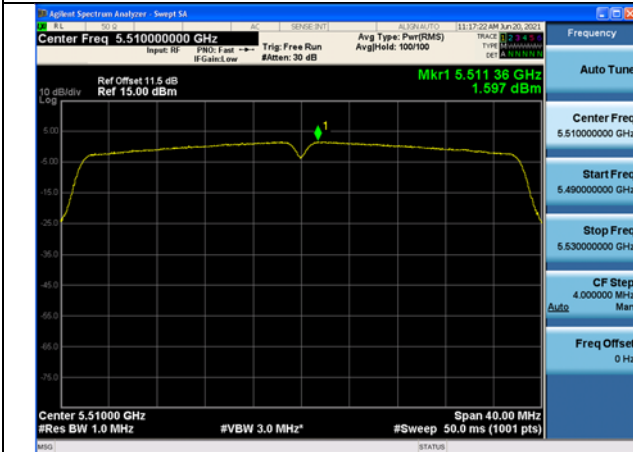
Test Mode:802. 11n HT20 Chain1



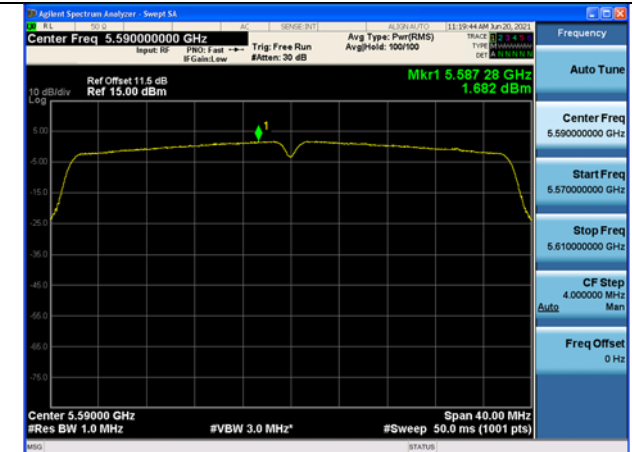
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5510	0.37	Chain0	1.967
		Chain1	2.472
		Chain0+Chain1	5.237
5590		Chain0	2.052
		Chain1	2.738
		Chain0+Chain1	5.419
5670		Chain0	2.141
		Chain1	2.904
		Chain0+Chain1	5.550

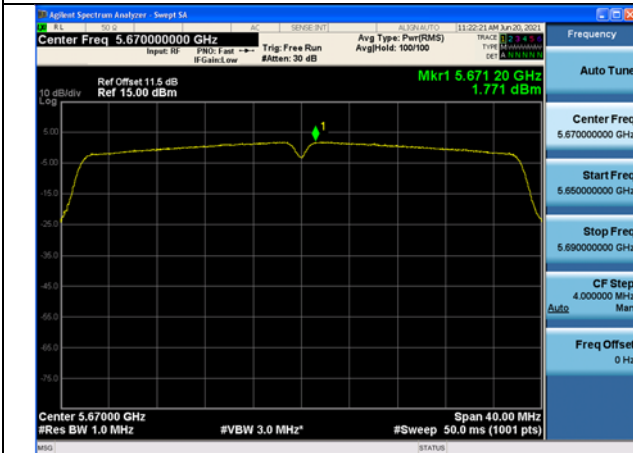
Test Mode:802. 11n HT40 Chain0



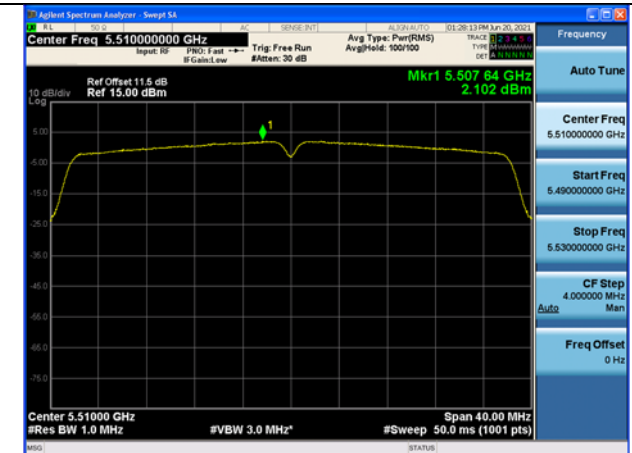
Test Mode:802. 11n HT40 Chain0



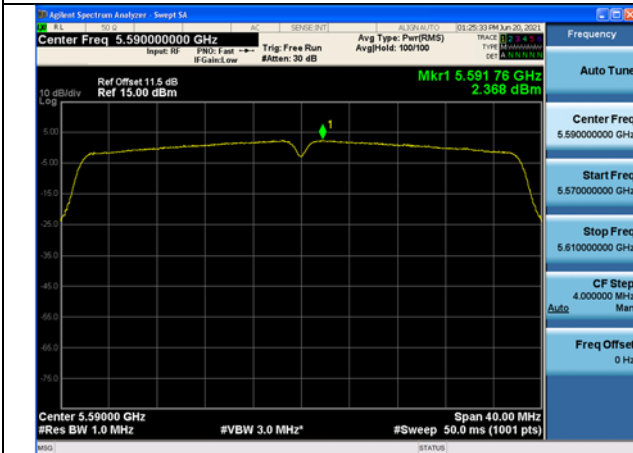
Test Mode:802. 11n HT40 Chain0



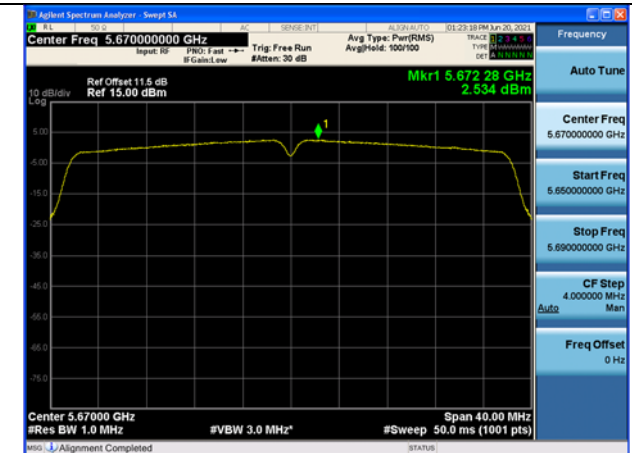
Test Mode:802. 11n HT40 Chain1



Test Mode:802. 11n HT40 Chain1



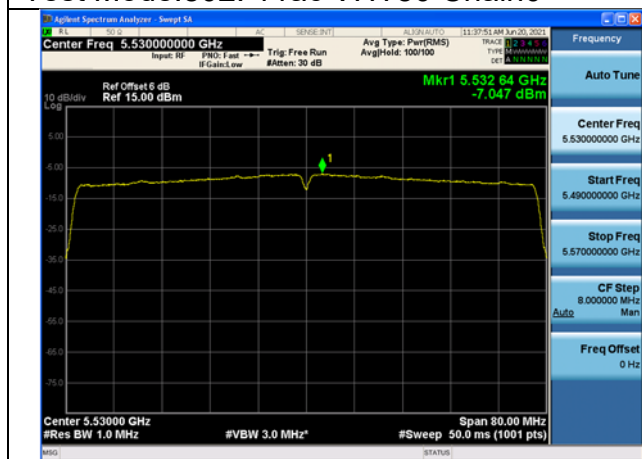
Test Mode:802. 11n HT40 Chain1



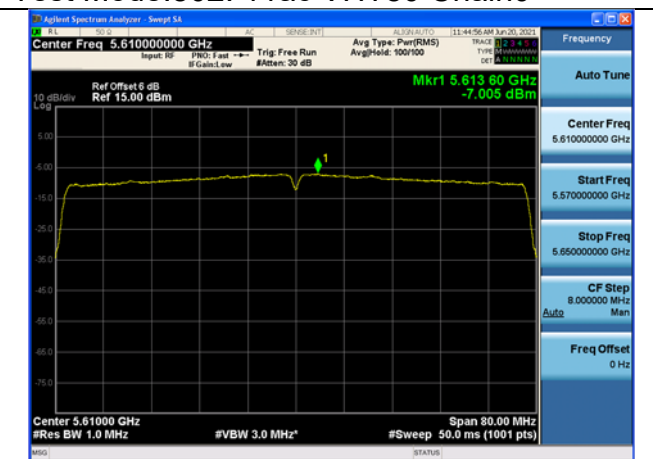
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5530	0.74	Chain0	-6.307
		Chain1	-5.801
		Chain0+Chain1	-3.036
5610		Chain0	-6.265
		Chain1	-5.500
		Chain0+Chain1	-2.855

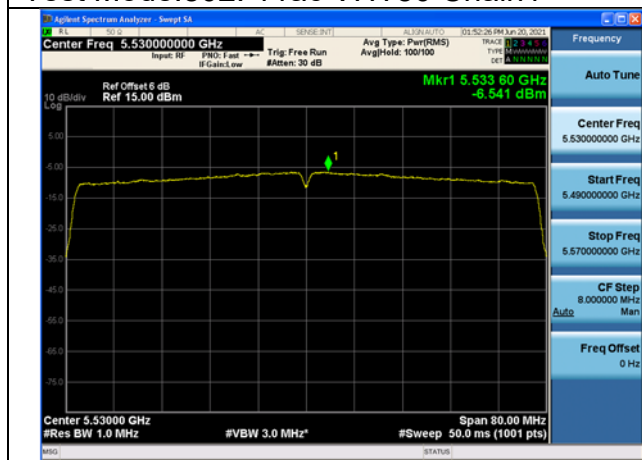
Test Mode:802. 11ac VHT80 Chain0



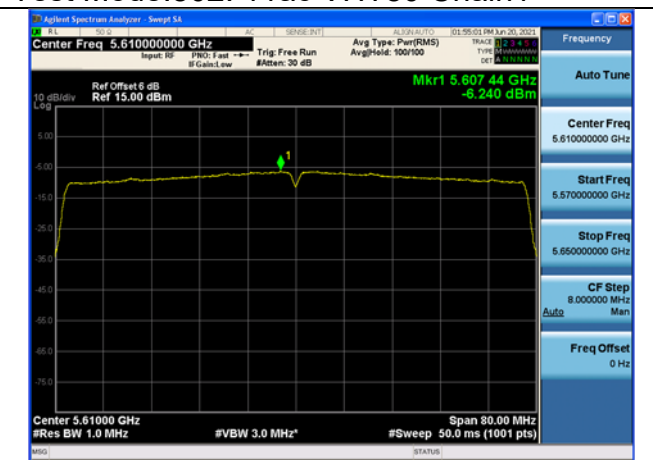
Test Mode:802. 11ac VHT80 Chain0



Test Mode:802. 11ac VHT80 Chain1



Test Mode:802. 11ac VHT80 Chain1



Frequency Stability
UNII-2C

Mode	Data Rate	Chain	Center Frequency (MHz)	Measured Frequency (MHz)	Frequency Stability (ppm)	Voltage (V)	Temperature (°C)
802.11a	6Mbps	Chain0	5500	5499.901995	-17.82	NV	-10
			5500	5500.056334	10.24	NV	0
			5500	5499.988857	-2.03	NV	+10
			5500	5500.038652	7.03	NV	+20
			5500	5500.049720	9.04	HV	+20
			5500	5500.016783	3.05	LV	+20
			5500	5499.908217	-16.69	NV	+30
			5500	5500.097231	17.68	NV	+40
			5500	5499.925901	-13.47	NV	+50
			5500	5500.073670	13.39	NV	+60
		Chain1	5500	5499.957059	-7.81	NV	+70
			5500	5500.050036	9.10	NV	-10
			5500	5500.004979	0.91	NV	0
			5500	5499.992760	-1.32	NV	+10
			5500	5500.016109	2.93	HV	+20
			5500	5499.904740	-17.32	LV	+20
			5500	5500.084413	15.35	NV	+20
			5500	5500.078659	14.30	NV	+30
			5500	5499.963423	-6.65	NV	+40
			5500	5500.061760	11.23	NV	+50
			5500	5500.032444	5.90	NV	+60
			5500	5500.040370	7.34	NV	+70