APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Output Power
UNII-3

Mode	Freq	Chain	Conducted average
802.11a	5745	Chain0	16.40
		Chain1	14.70
	5785	Chain0	16.20
		Chain1	14.70
	5825	Chain0	16.10
		Chain1	14.90
802.11n20M	5745	Chain0	15.20
		Chain1	13.70
		Chain0+Chain1	17.52
	5785	Chain0	15.40
		Chain1	13.90
		Chain0+Chain1	17.72
	5825	Chain0	15.40
		Chain1	14.20
		Chain0+Chain1	17.85
802.11n40M	5755	Chain0	15.50
		Chain1	13.90
		Chain0+Chain1	17.78
	5795	Chain0	15.20
		Chain1	13.70
		Chain0+Chain1	17.52
802.11ac20M	5745	Chain0	15.30
		Chain1	13.30
		Chain0+Chain1	17.42
	5785	Chain0	15.40
		Chain1	13.40
		Chain0+Chain1	17.52
	5825	Chain0	15.30
		Chain1	13.70
		Chain0+Chain1	17.58
802.11ac40M	5755	Chain0	15.50
		Chain1	13.60
		Chain0+Chain1	17.66
	5795	Chain0	15.40
		Chain1	13.40
		Chain0+Chain1	17.52
802.11ac80M	5775	Chain0	15.10
		Chain1	13.50
		Chain0+Chain1	17.38

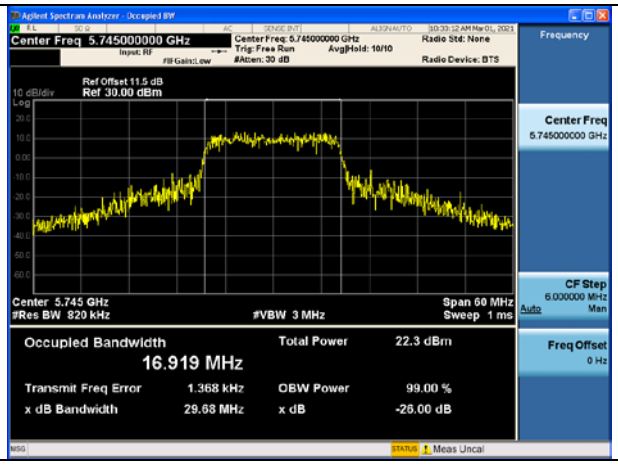
Emission Bandwidth

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

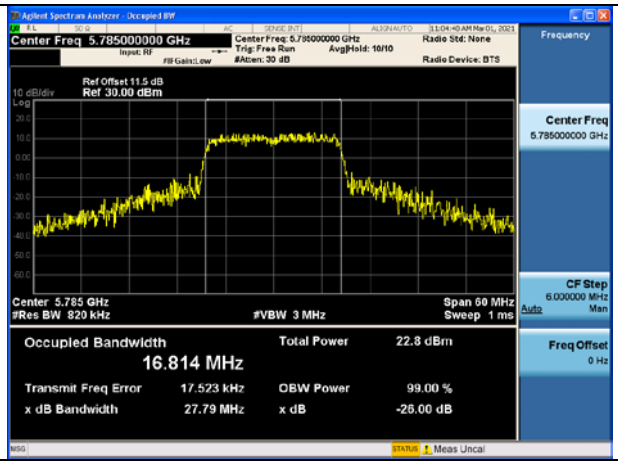
Test Mode:802.11a

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain0	29.68
	Chain1	21.40
5785	Chain0	27.79
	Chain1	22.85
5825	Chain0	28.25
	Chain1	21.95

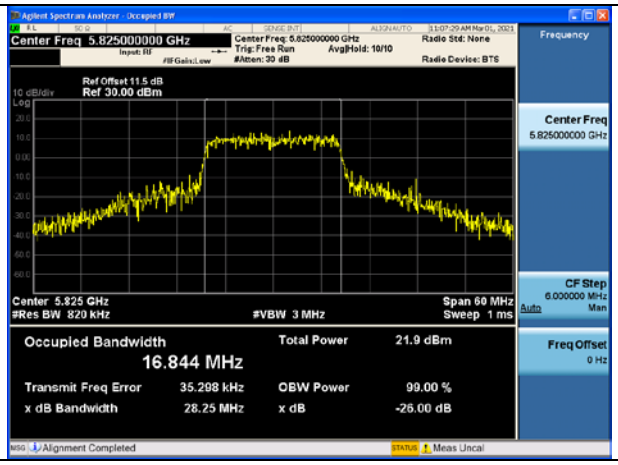
Test Mode:802.11a Chain0



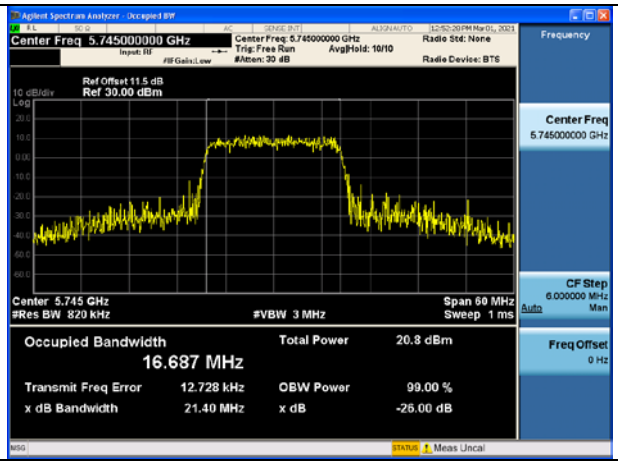
Test Mode:802.11a Chain0



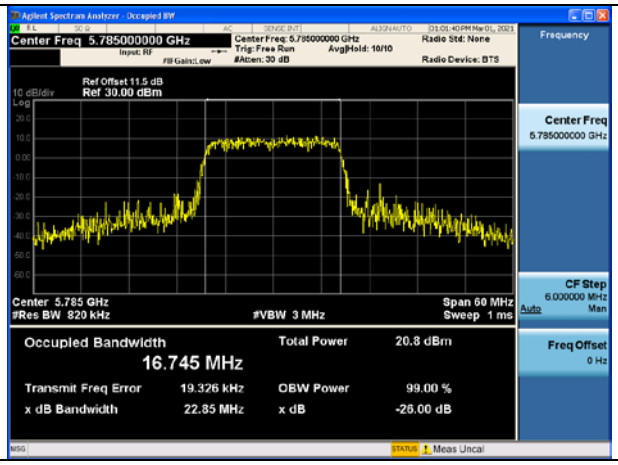
Test Mode:802.11a Chain0



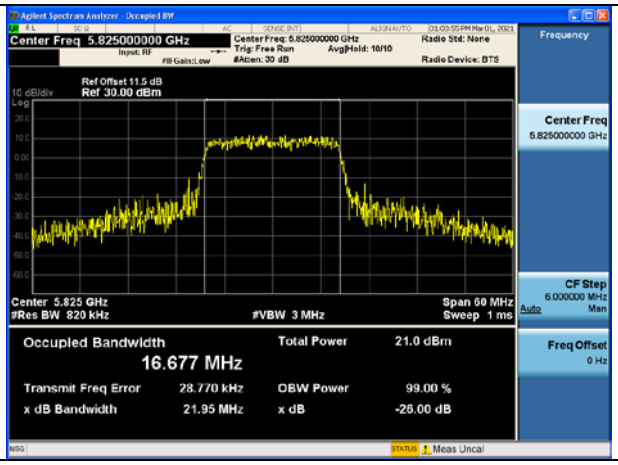
Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



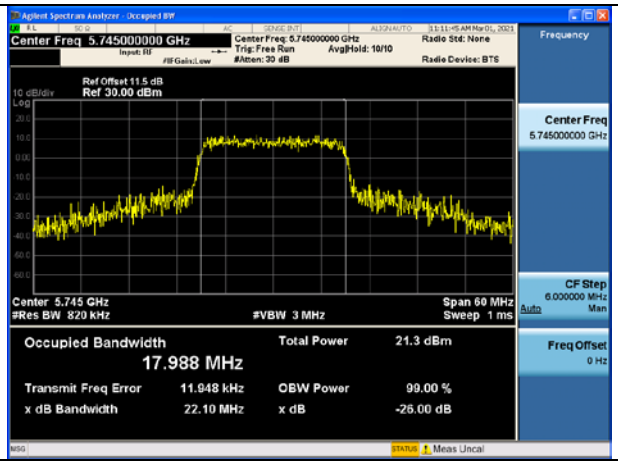
Test Mode:802.11a Chain1



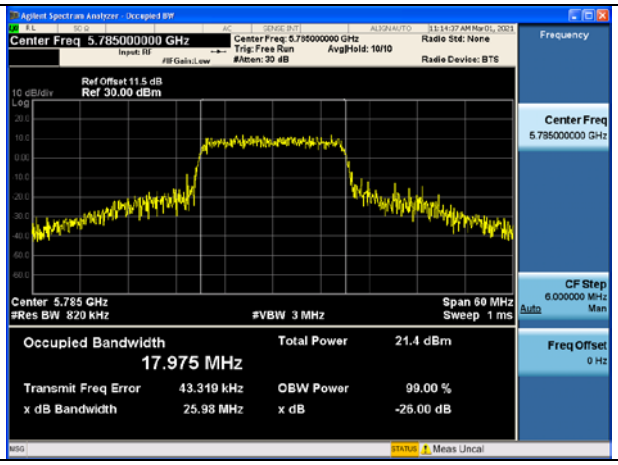
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain0	22.10
	Chain1	19.77
5785	Chain0	25.98
	Chain1	19.87
5825	Chain0	24.54
	Chain1	20.09

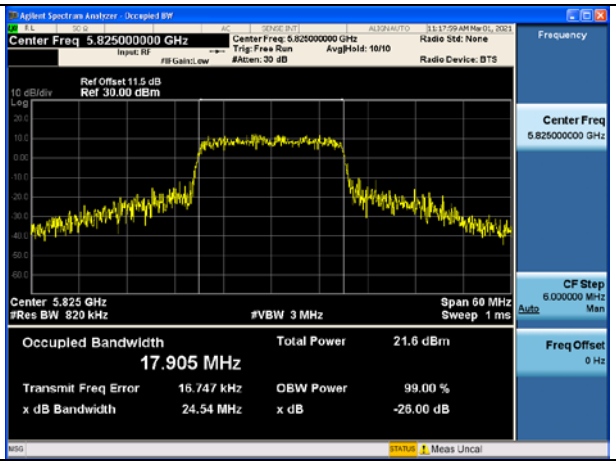
Test Mode:802. 11n HT20 Chain0



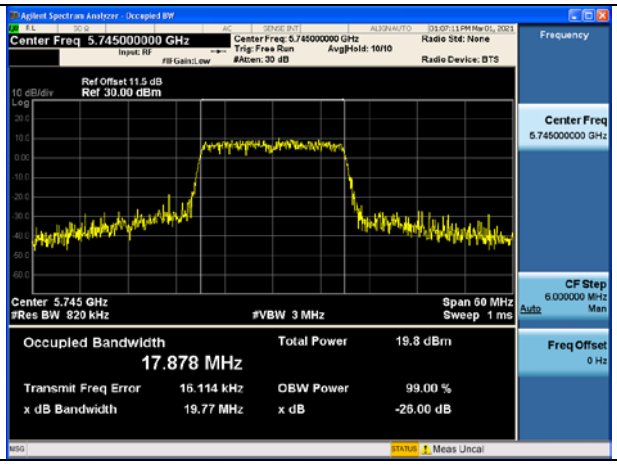
Test Mode:802. 11n HT20 Chain0



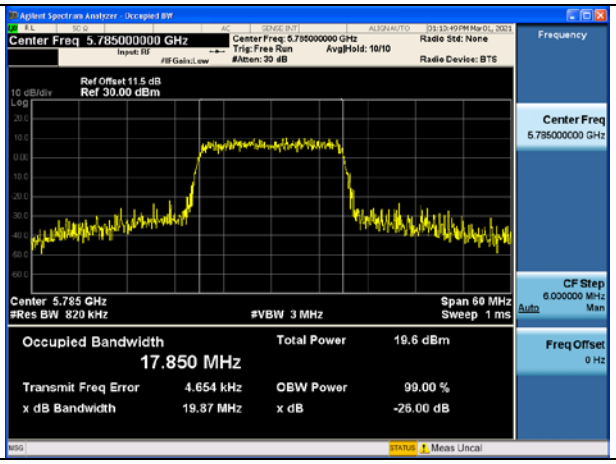
Test Mode:802. 11n HT20 Chain0



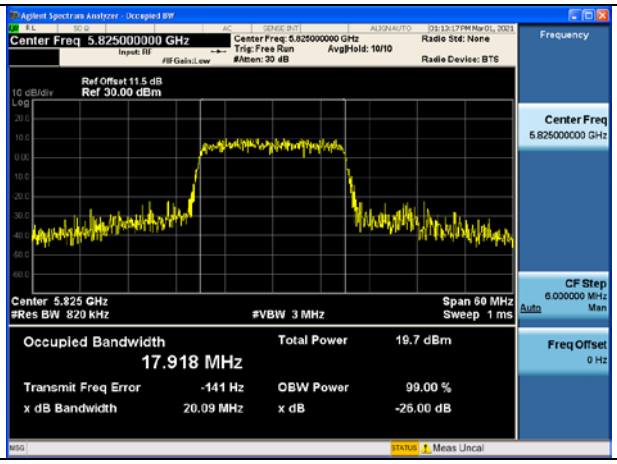
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



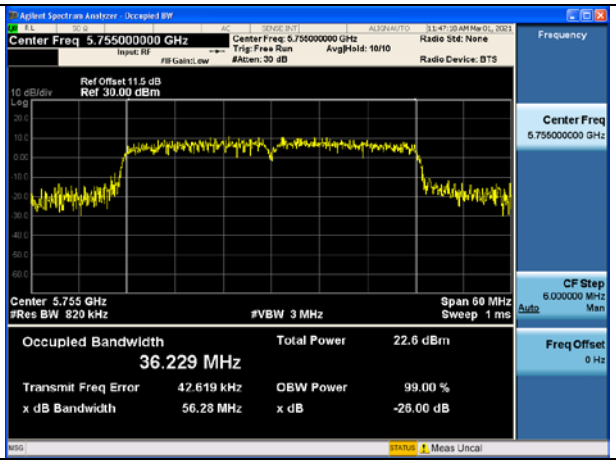
Test Mode:802. 11n HT20 Chain1



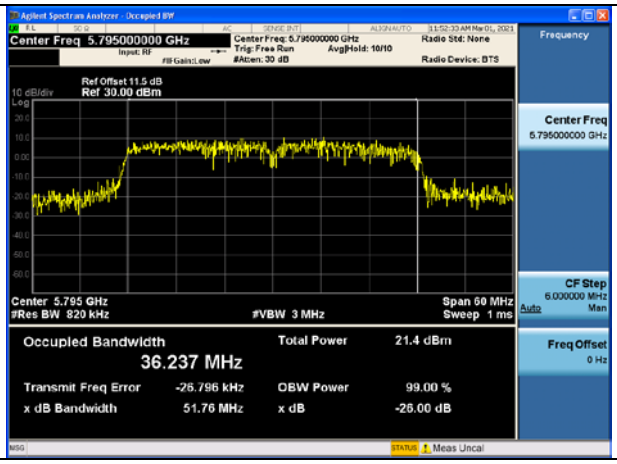
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5755	Chain0	56.28
	Chain1	49.89
5795	Chain0	51.76
	Chain1	49.71

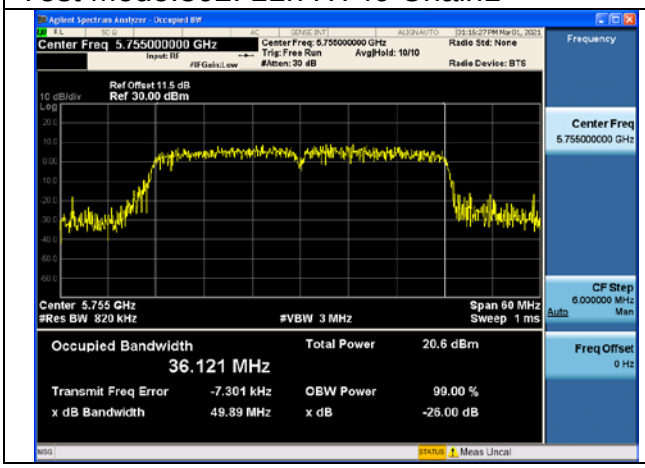
Test Mode:802. 11n HT40 Chain0



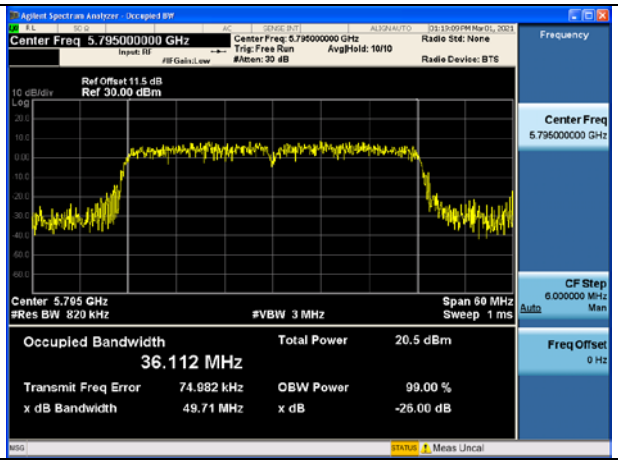
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1



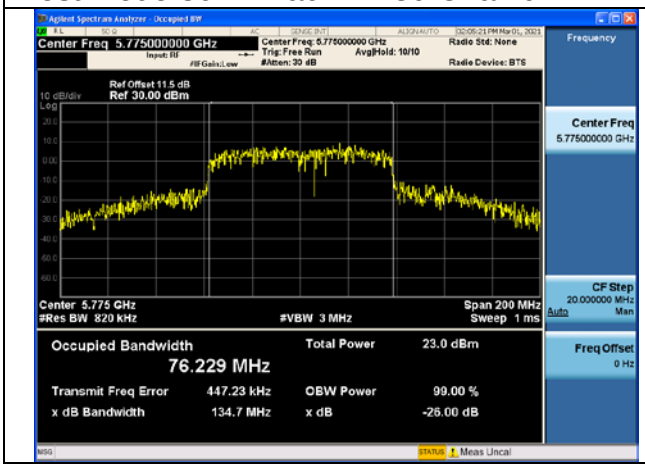
Test Mode:802. 11n HT40 Chain1



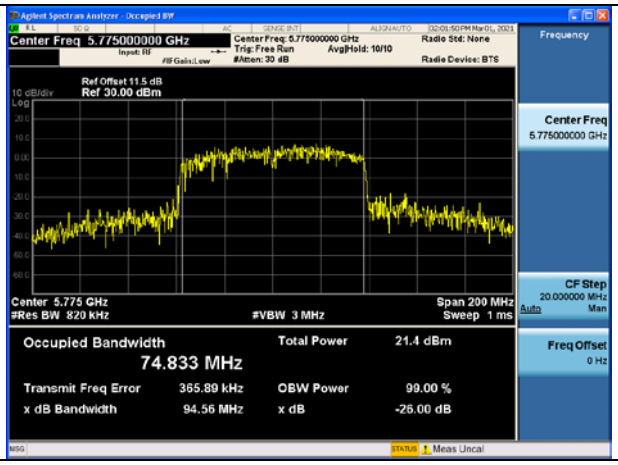
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5775	Chain0	94.70
	Chain1	94.56

Test Mode:802. 11ac VHT80 Chain0



Test Mode:802. 11ac VHT80 Chain1



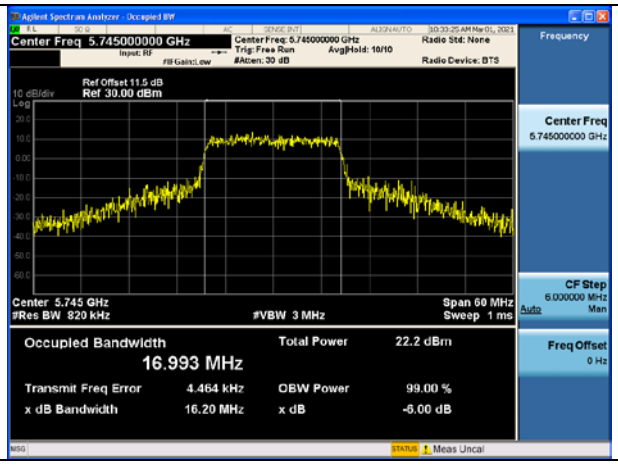
Occupied Bandwidth

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

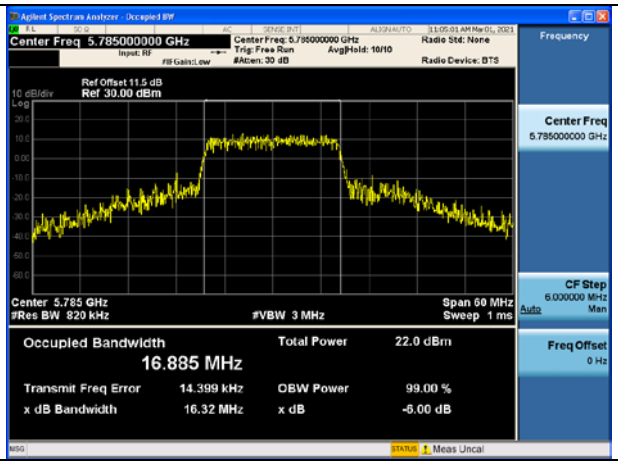
Test Mode:802.11a

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain0	16.993
	Chain1	16.798
5785	Chain0	16.885
	Chain1	16.682
5825	Chain0	16.898
	Chain1	16.737

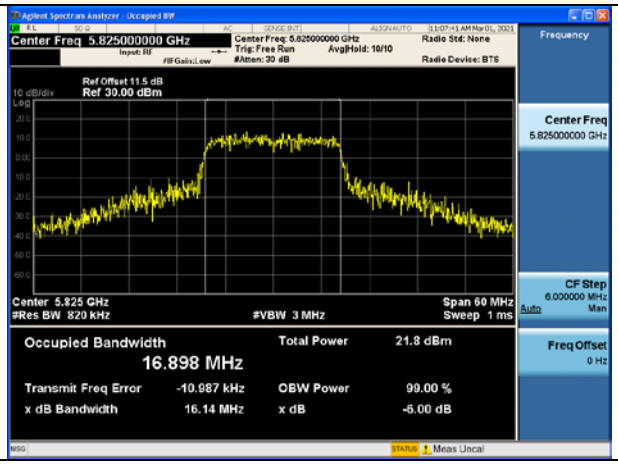
Test Mode:802.11a Chain0



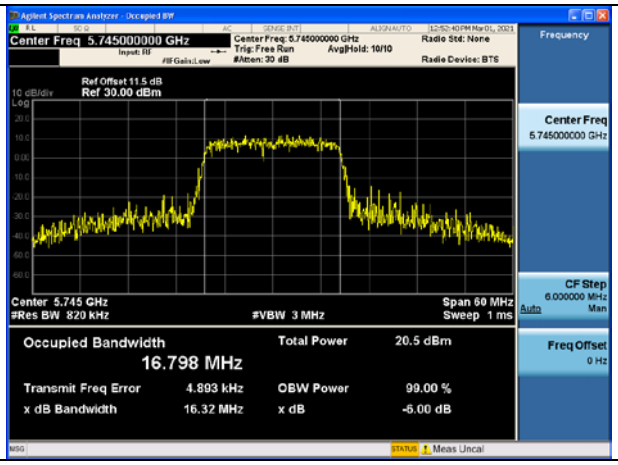
Test Mode:802.11a Chain0



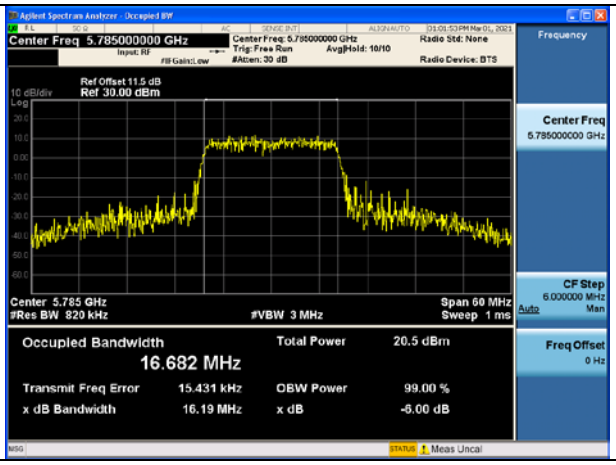
Test Mode:802.11a Chain0



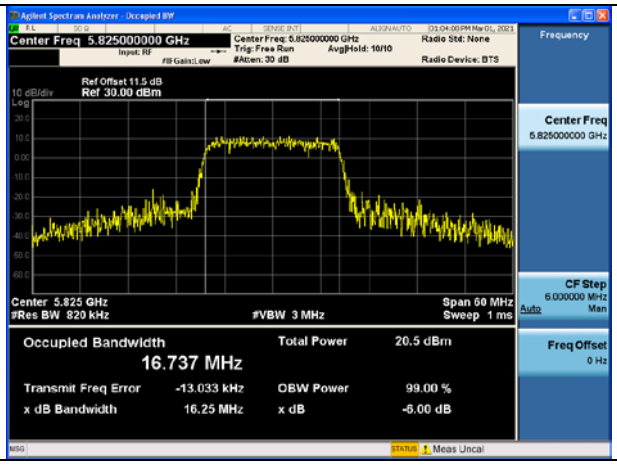
Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



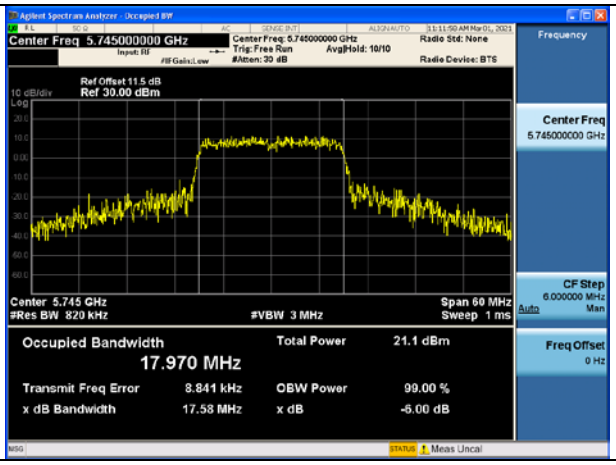
Test Mode:802.11a Chain1



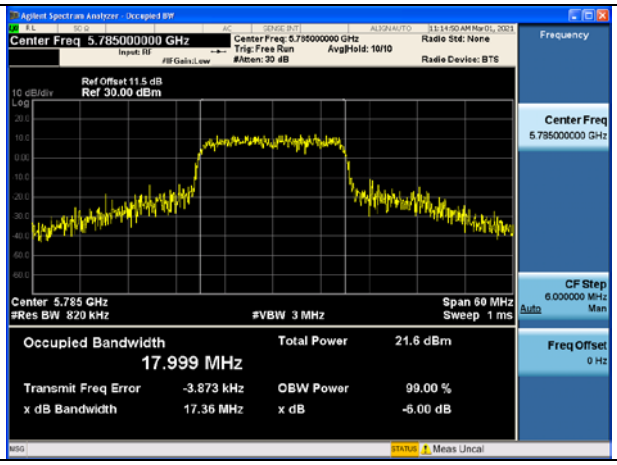
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain0	17.970
	Chain1	17.888
5785	Chain0	17.999
	Chain1	17.848
5825	Chain0	17.943
	Chain1	17.872

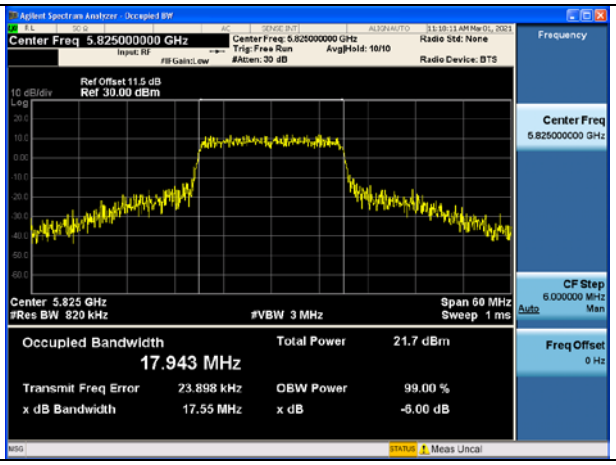
Test Mode:802. 11n HT20 Chain0



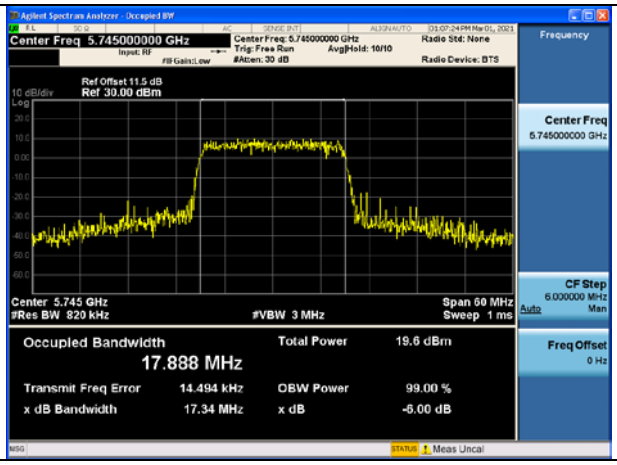
Test Mode:802. 11n HT20 Chain0



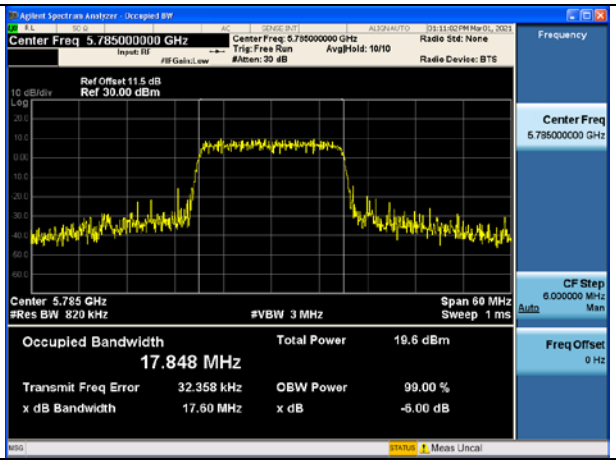
Test Mode:802. 11n HT20 Chain0



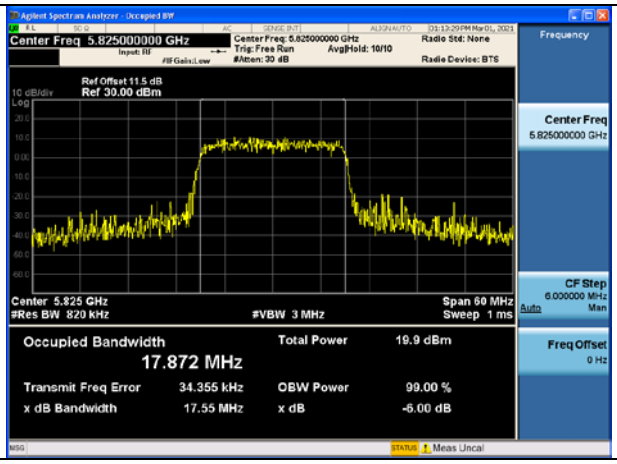
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



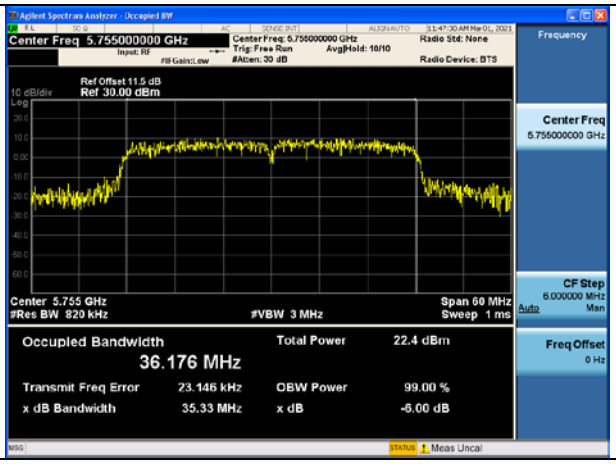
Test Mode:802. 11n HT20 Chain1



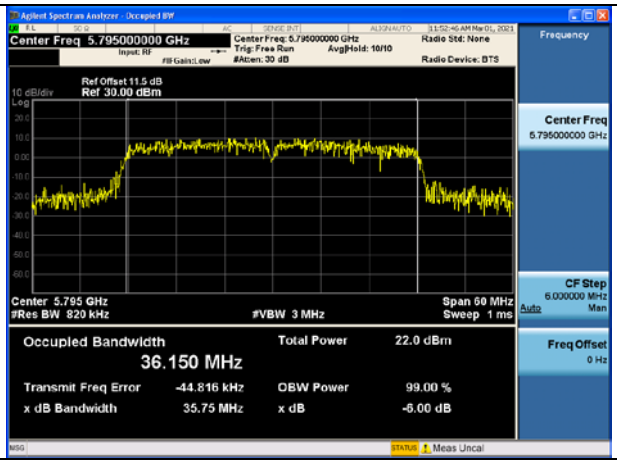
Test Mode:802. 11n HT40

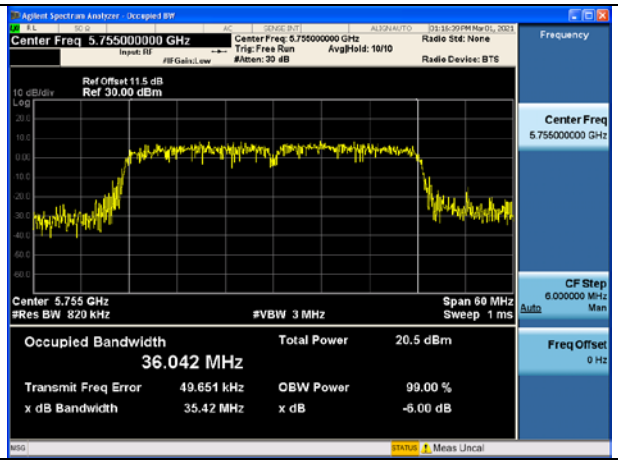
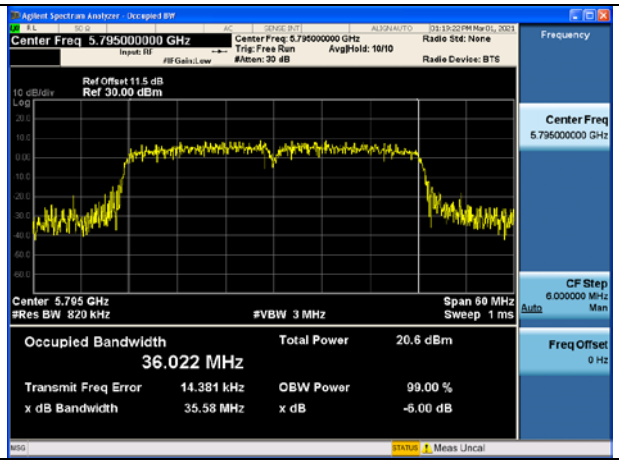
Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5755	Chain0	36.176
	Chain1	36.042
5795	Chain0	36.150
	Chain1	36.022

Test Mode:802. 11n HT40 Chain0



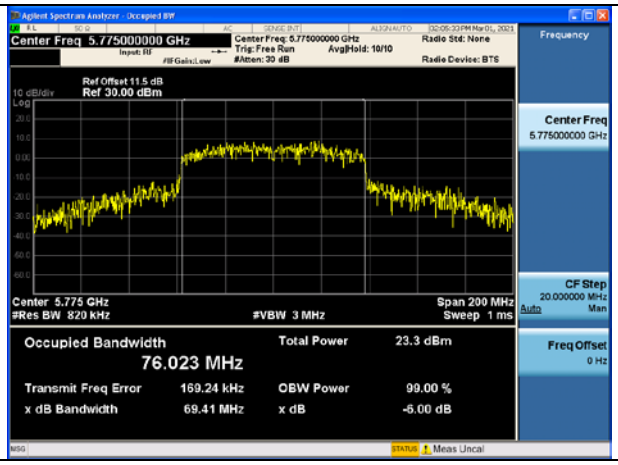
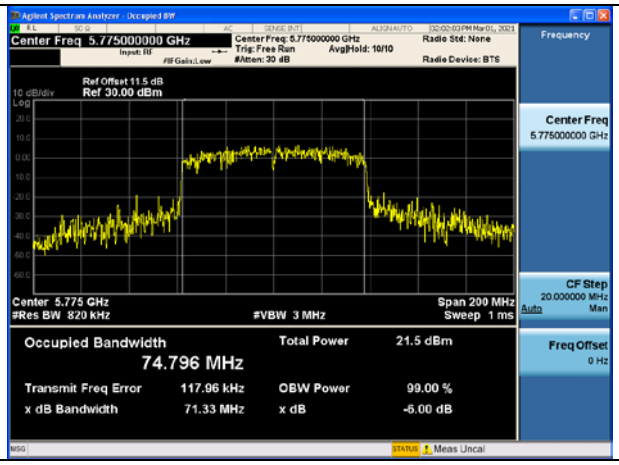
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1	Test Mode:802. 11n HT40 Chain1
	

Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5775	Chain0	76.023
	Chain1	74.796

Test Mode:802. 11ac VHT80 Chain0	Test Mode:802. 11ac VHT80 Chain1
	

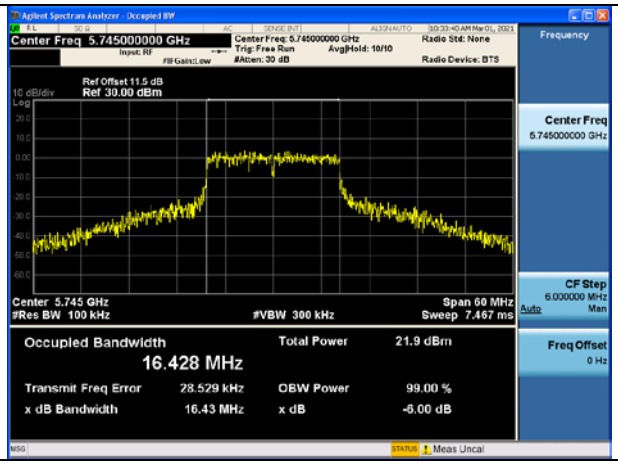
6dB Bandwidth

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

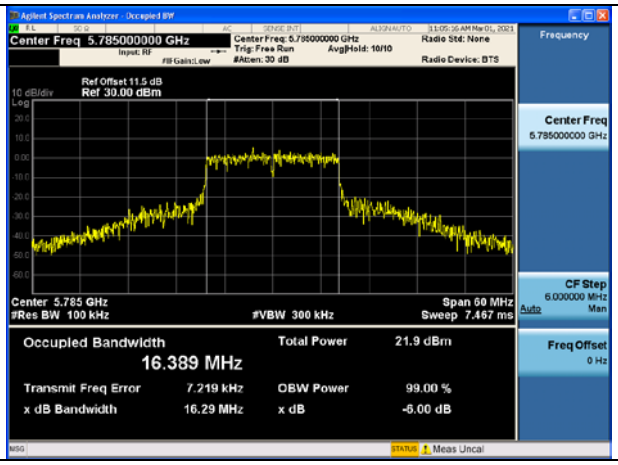
Test Mode:802.11a

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5745	Chain0	16.43
	Chain1	16.44
5785	Chain0	16.29
	Chain1	16.40
5825	Chain0	16.40
	Chain1	16.39

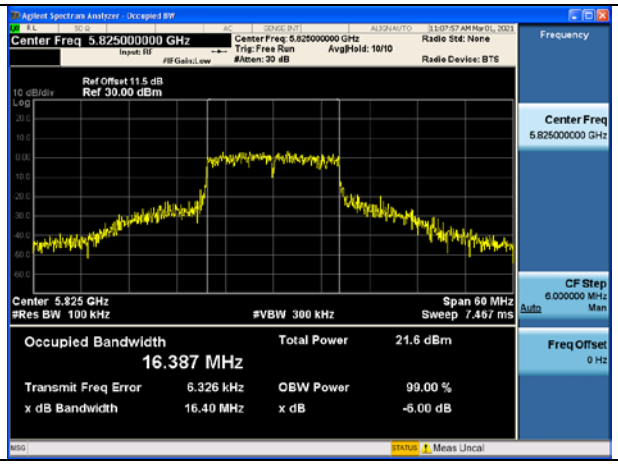
Test Mode:802.11a Chain0



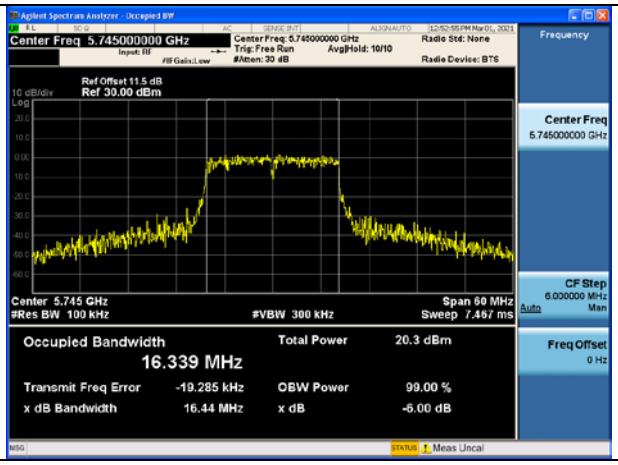
Test Mode:802.11a Chain0



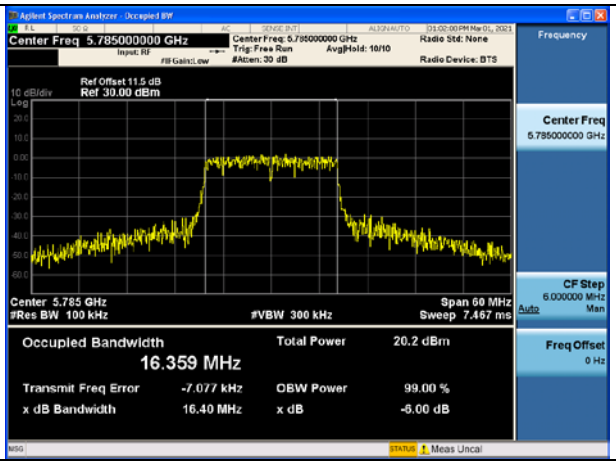
Test Mode:802.11a Chain0



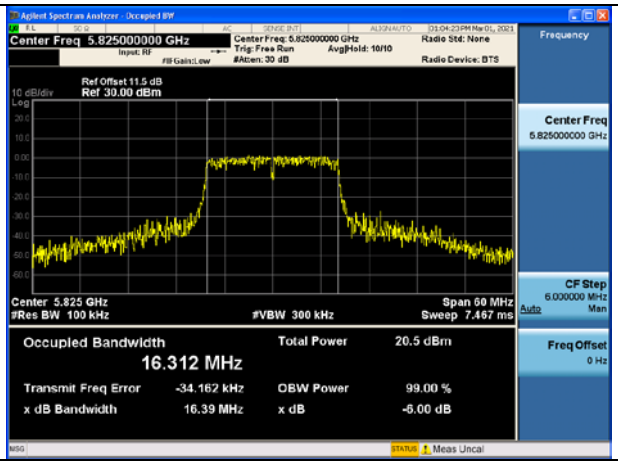
Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



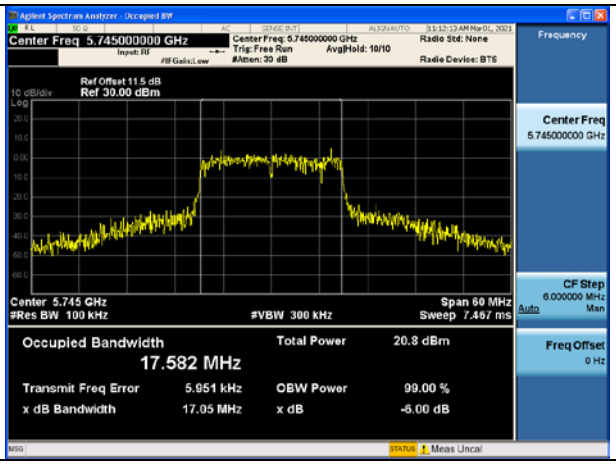
Test Mode:802.11a Chain1



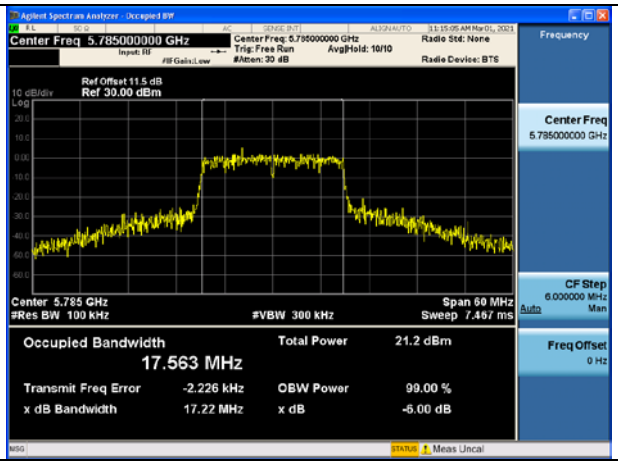
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5745	Chain0	17.05
	Chain1	17.64
5785	Chain0	17.22
	Chain1	16.87
5825	Chain0	16.28
	Chain1	16.59

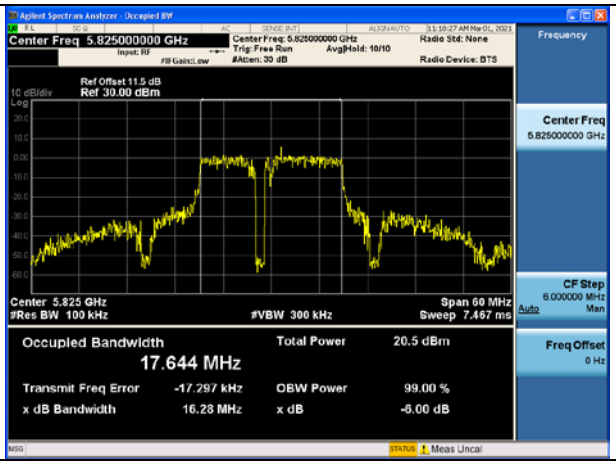
Test Mode:802. 11n HT20 Chain0



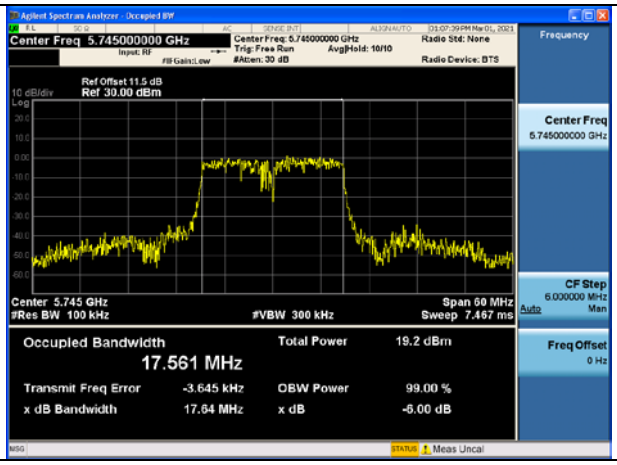
Test Mode:802. 11n HT20 Chain0



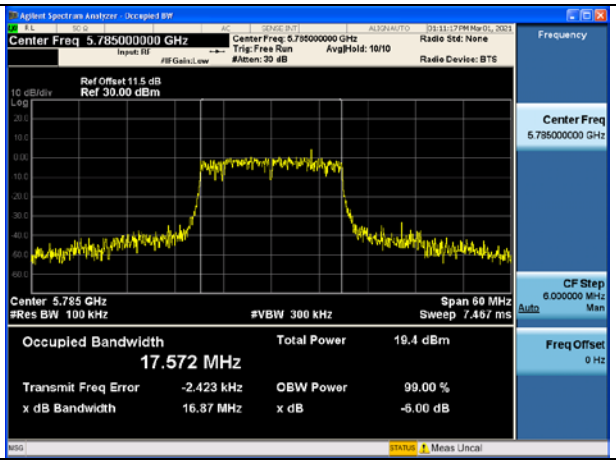
Test Mode:802. 11n HT20 Chain0



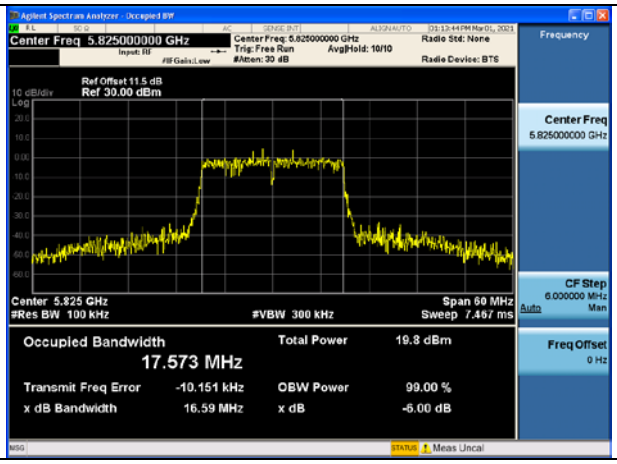
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



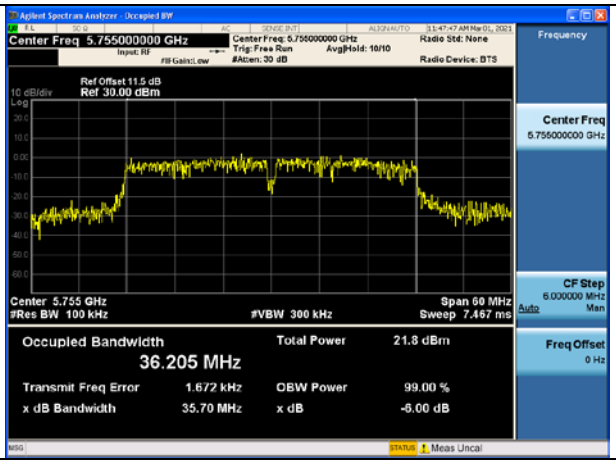
Test Mode:802. 11n HT20 Chain1



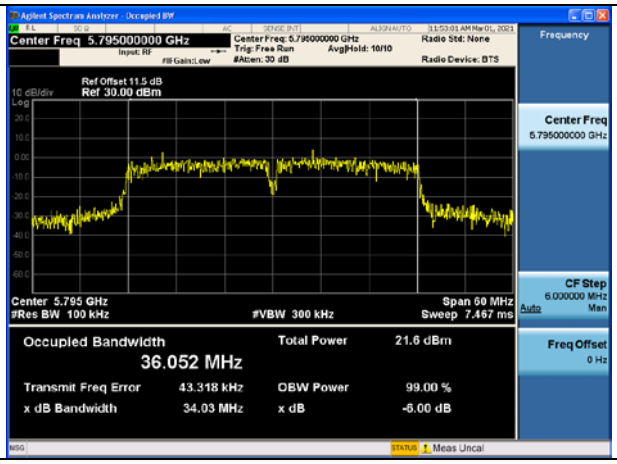
Test Mode:802. 11n HT40

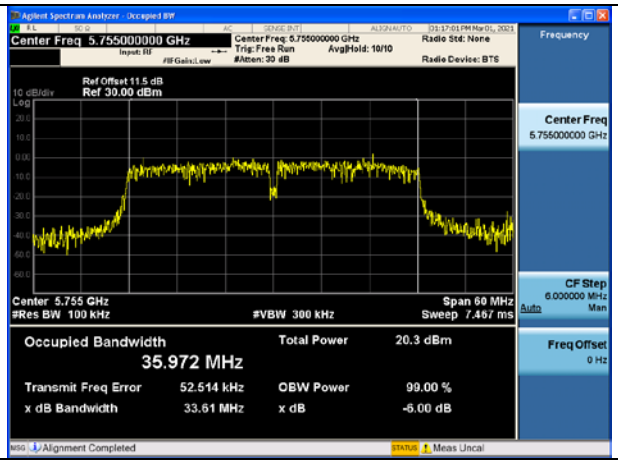
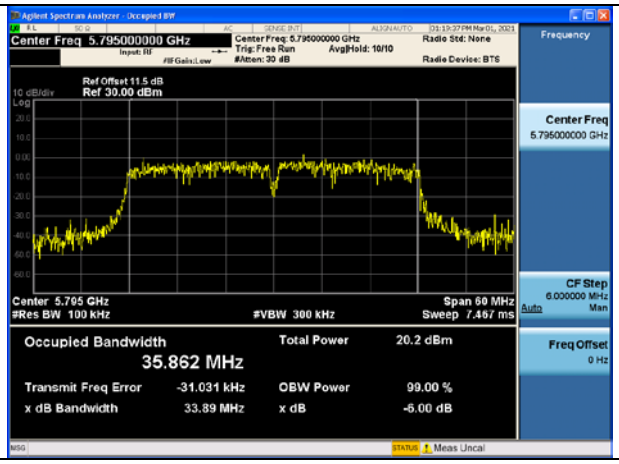
Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5755	Chain0	35.70
	Chain1	33.61
5795	Chain0	34.03
	Chain1	33.89

Test Mode:802. 11n HT40 Chain0



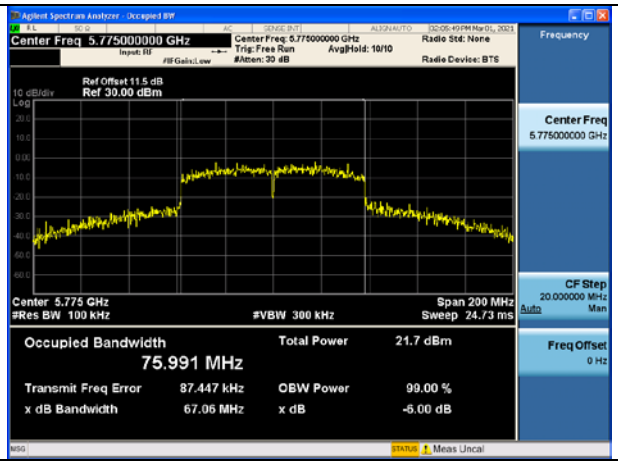
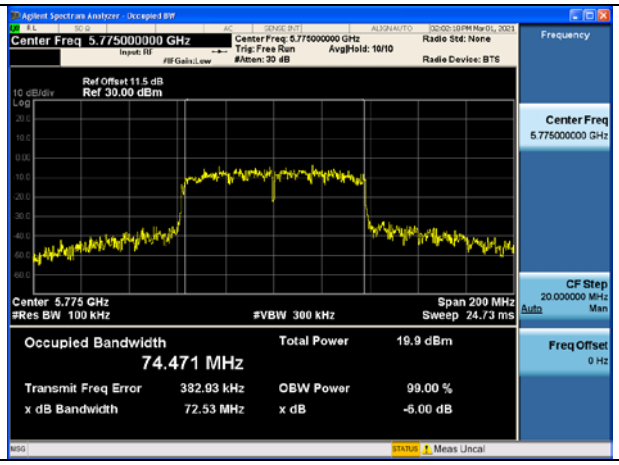
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1	Test Mode:802. 11n HT40 Chain1
	

Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5775	Chain0	67.06
	Chain1	72.53

Test Mode:802. 11ac VHT80 Chain0	Test Mode:802. 11ac VHT80 Chain1
	

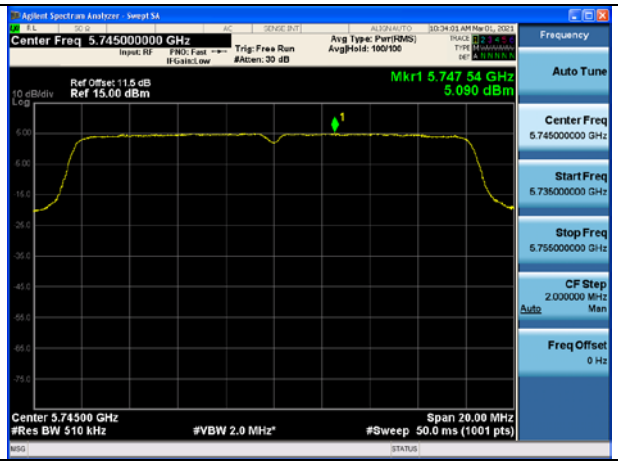
Transmitter Power Spectral Density

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

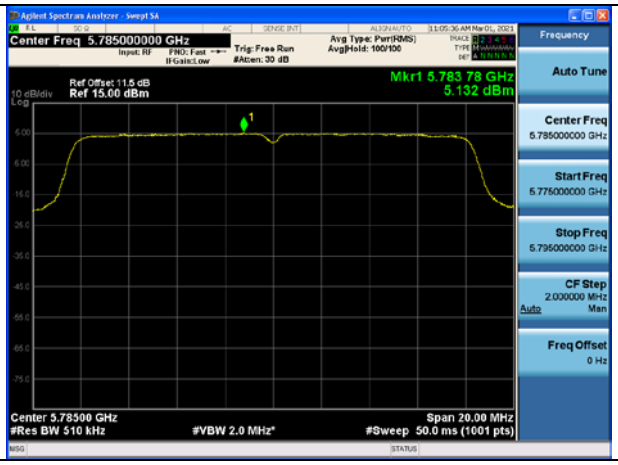
Test Mode:802.11a

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5745	1.36	Chain0	6.450
		Chain1	4.885
5785		Chain0	6.492
		Chain1	4.776
5825		Chain0	6.264
		Chain1	5.252

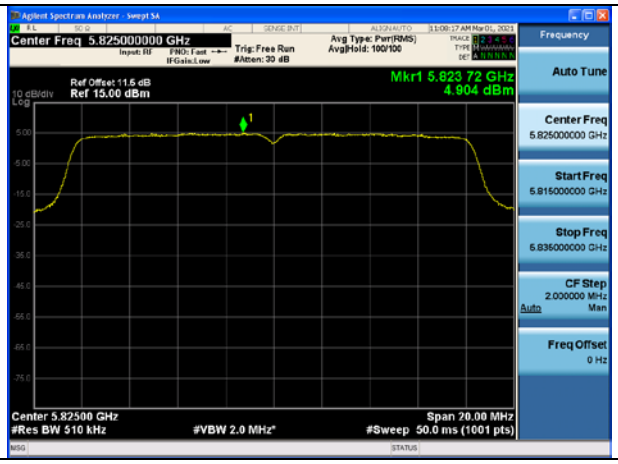
Test Mode:802.11a Chain0



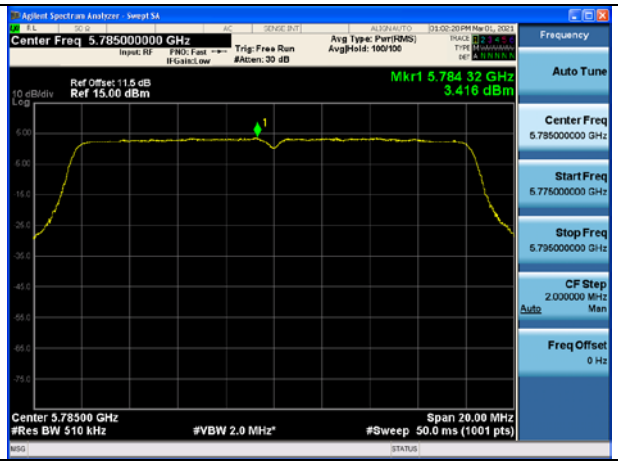
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0

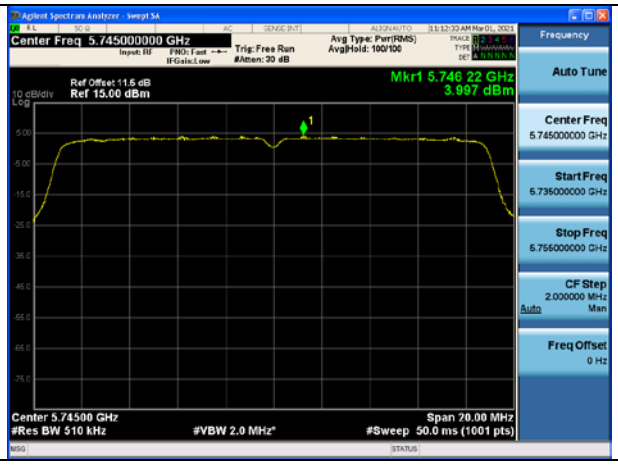
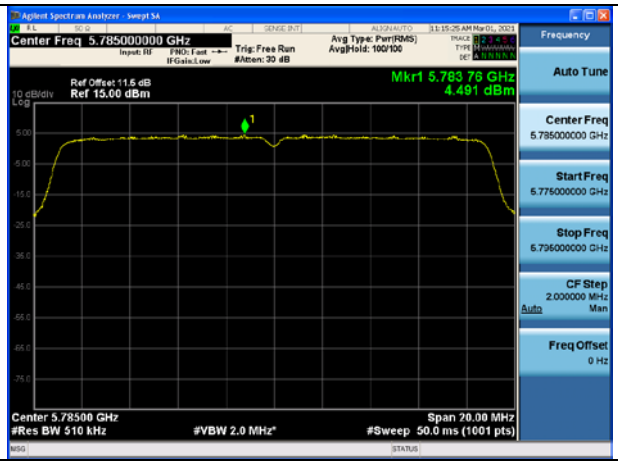


Test Mode:802.11a Chain1

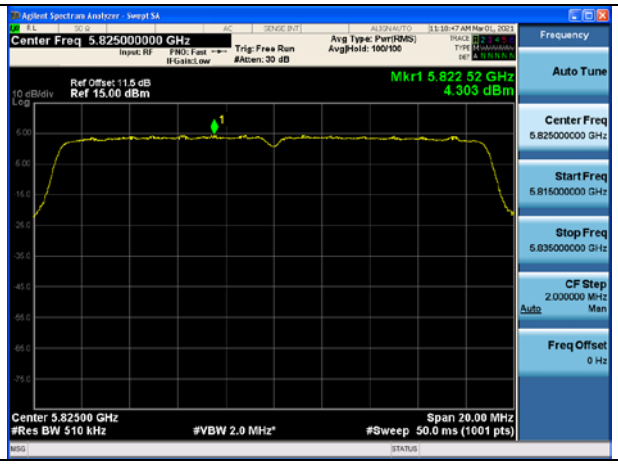
Test Mode:802.11a Chain1	Test Mode:802.11a Chain1
	

Test Mode:802. 11n HT20

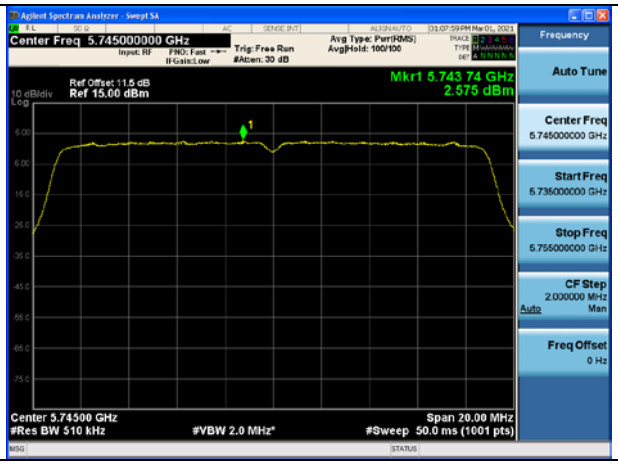
Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5745	1.44	Chain0	5.437
		Chain1	4.015
		Chain0+Chain1	7.794
5785		Chain0	5.931
		Chain1	4.228
		Chain0+Chain1	8.173
5825		Chain0	5.743
		Chain1	4.194
		Chain0+Chain1	8.047

Test Mode:802. 11n HT20 Chain0	Test Mode:802. 11n HT20 Chain0
	

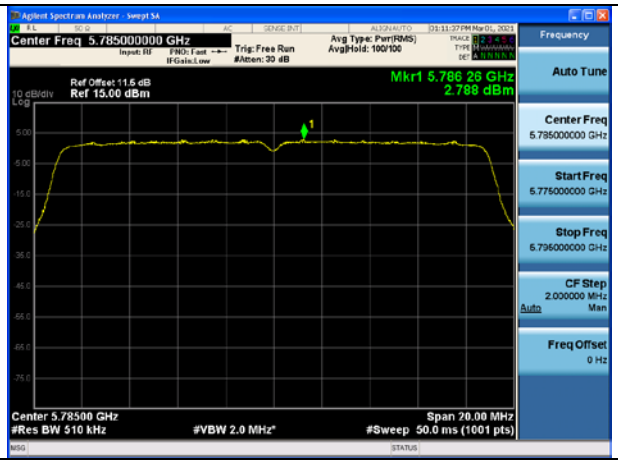
Test Mode:802. 11n HT20 Chain0



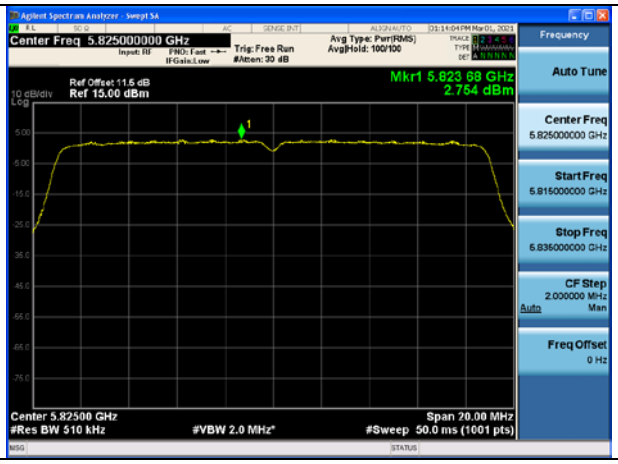
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



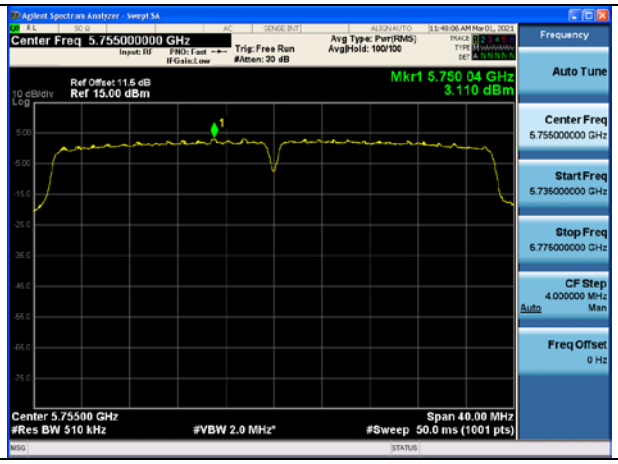
Test Mode:802. 11n HT20 Chain1



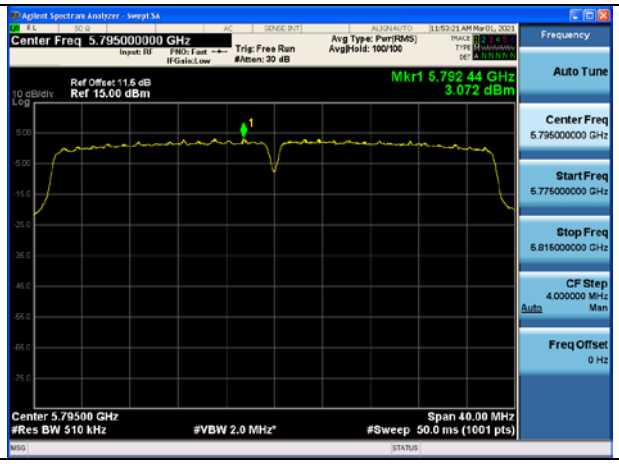
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5755	1.81	Chain0	4.920
		Chain1	3.132
		Chain0+Chain1	7.128
5795		Chain0	4.882
		Chain1	3.230
		Chain0+Chain1	7.144

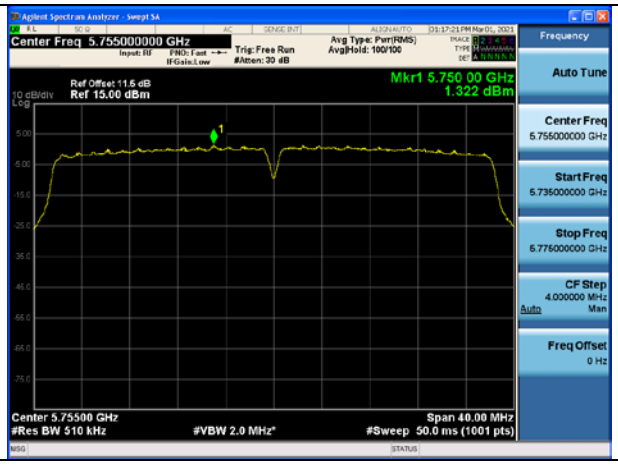
Test Mode:802. 11n HT40 Chain0



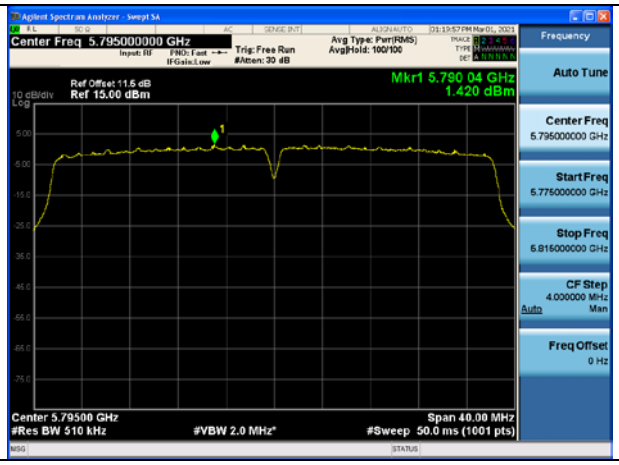
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1



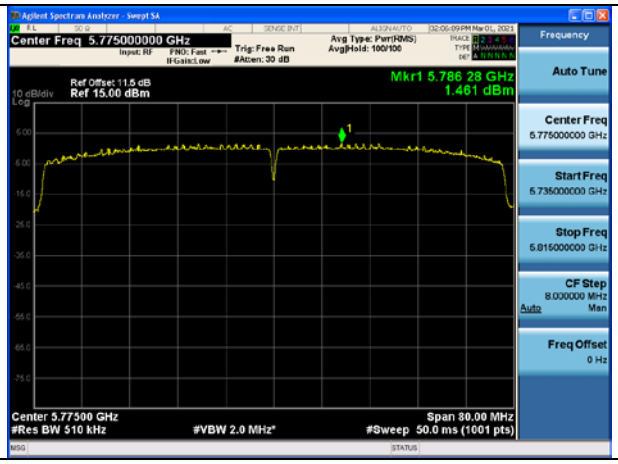
Test Mode:802. 11n HT40 Chain1



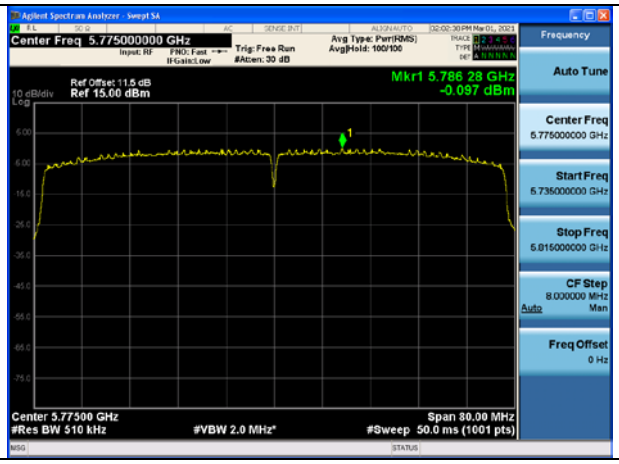
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5775	6.07	Chain0	4.161
		Chain1	2.603
		Chain0+Chain1	6.462

Test Mode:802. 11ac VHT80 Chain0



Test Mode:802. 11ac VHT80 Chain1



Frequency Stability

UNII-3

Mode	Data Rate	Chain	Center Frequency (MHz)	Measured Frequency (MHz)	Frequency Stability (ppm)	Voltage (V)	Temperature (°C)
802.11a	6Mbps	Chain0	5745	5745.00264	0.46	NV	-10
			5745	5744.95821	-7.27	NV	0
			5745	5744.94477	-9.61	NV	+10
			5745	5744.94770	-9.10	NV	+20
			5745	5745.03322	5.78	HV	+20
			5745	5744.96584	-5.95	LV	+20
			5745	5744.95795	-7.32	NV	+30
			5745	5744.98421	-2.75	NV	+40
			5745	5745.02202	3.83	NV	+50
			5745	5745.04931	8.58	NV	+60
			5745	5744.97333	-4.64	NV	+70
		Chain1	5745	5744.95402	-8.00	NV	-10
			5745	5745.05901	10.27	NV	0
			5745	5745.03422	5.96	NV	+10
			5745	5745.00287	0.50	HV	+20
			5745	5745.02108	3.67	LV	+20
			5745	5744.96894	-5.41	NV	+20
			5745	5744.94452	-9.66	NV	+30
			5745	5744.99052	-1.65	NV	+40
			5745	5744.99489	-0.89	NV	+50
			5745	5744.98288	-2.98	NV	+60
			5745	5745.01412	2.46	NV	+70