

## APPENDIX A – TEST DATA OF CONDUCTED EMISSION

### Output Power UNII-3

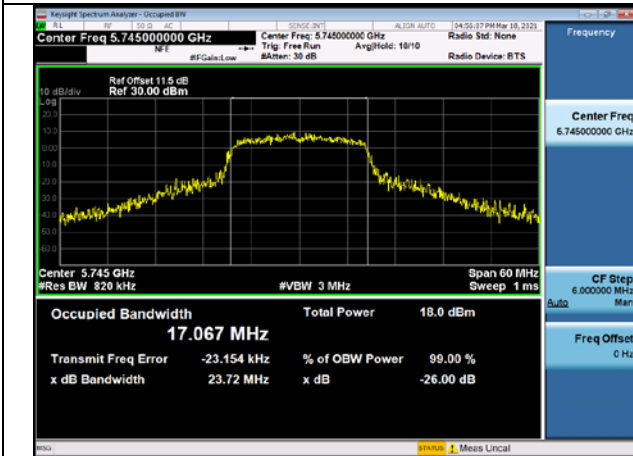
Mode	Freq (MHz)	Chain	Conducted average power output(dBm)
802.11a	5745	Chain0	14.93
		Chain1	15.37
	5785	Chain0	14.80
		Chain1	15.18
	5825	Chain0	14.64
		Chain1	14.82
802.11n20M	5745	Chain0	13.93
		Chain1	14.18
		Chain0+Chain1	17.07
	5785	Chain0	13.67
		Chain1	14.02
		Chain0+Chain1	16.86
	5825	Chain0	13.54
		Chain1	13.64
		Chain0+Chain1	16.60
802.11n40M	5755	Chain0	13.48
		Chain1	13.83
		Chain0+Chain1	16.67
	5795	Chain0	13.32
		Chain1	13.71
		Chain0+Chain1	16.53

**Emission Bandwidth**

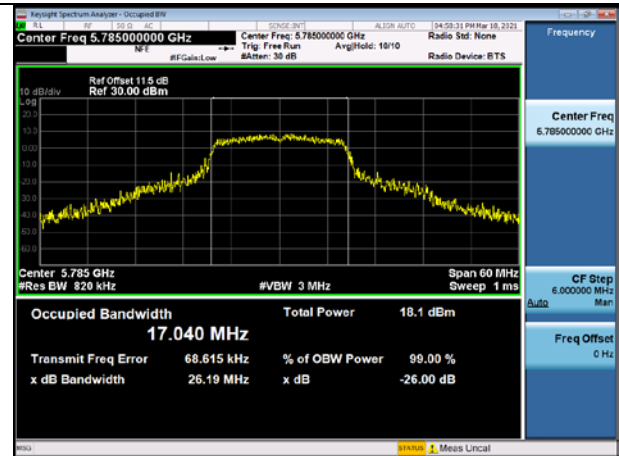
Offset 11.5dB =Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1dB  
Test Mode:802.11a

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain0	23.72
	Chain1	19.98
5785	Chain0	26.19
	Chain1	20.08
5825	Chain0	26.51
	Chain1	20.18

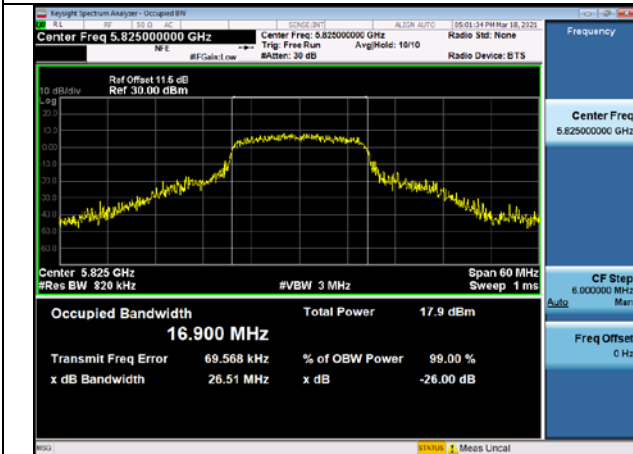
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



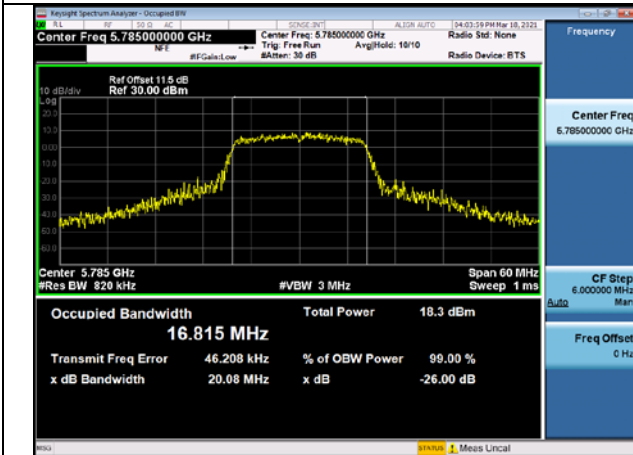
Test Mode:802.11a Chain0



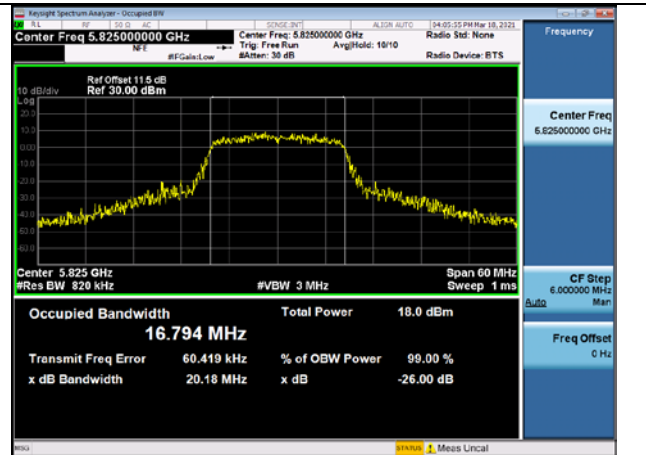
Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



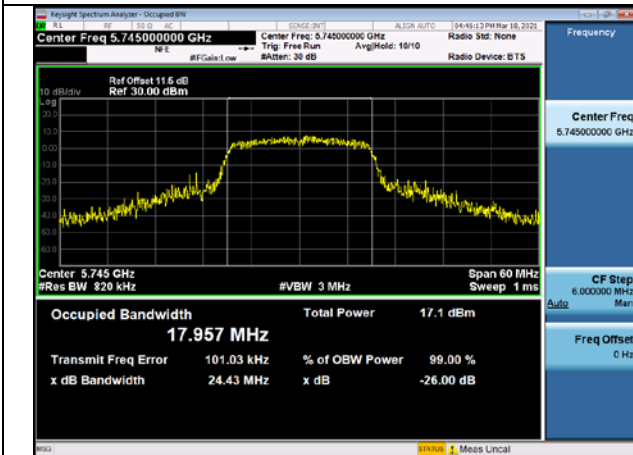
Test Mode:802.11a Chain1



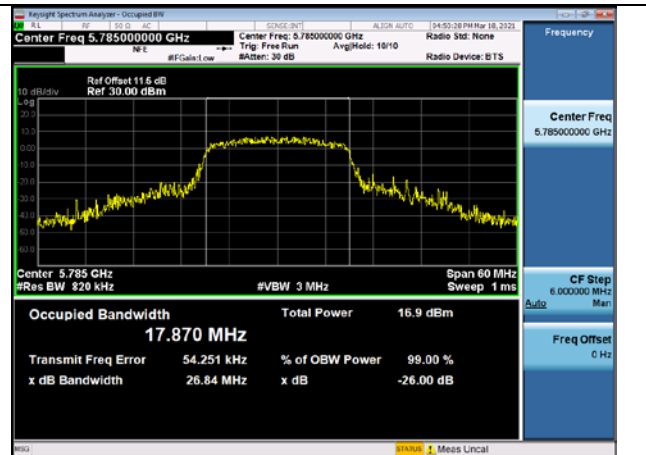
Test Mode:802.11n HT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain0	24.43
	Chain1	20.66
5785	Chain0	26.84
	Chain1	20.36
5825	Chain0	22.55
	Chain1	20.79

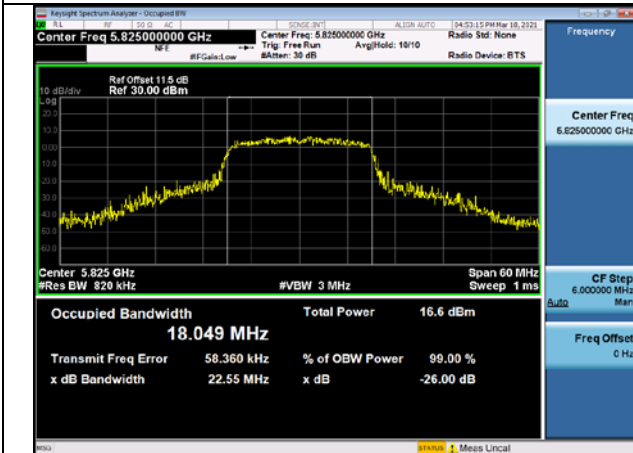
Test Mode:802.11n HT20 Chain0



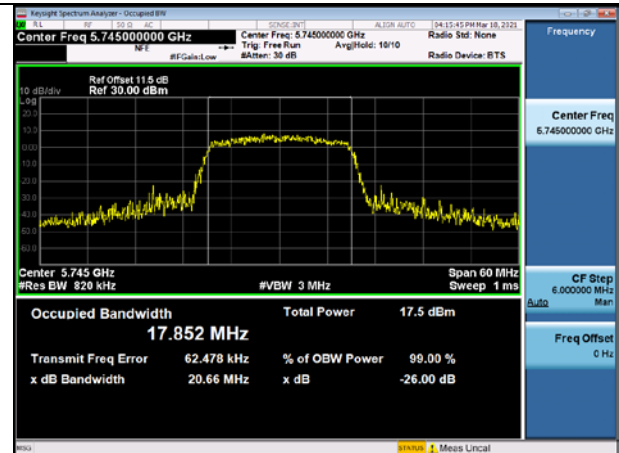
Test Mode:802.11n HT20 Chain0



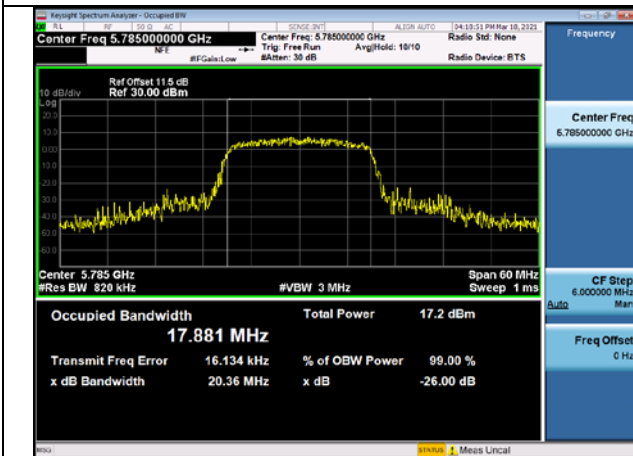
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



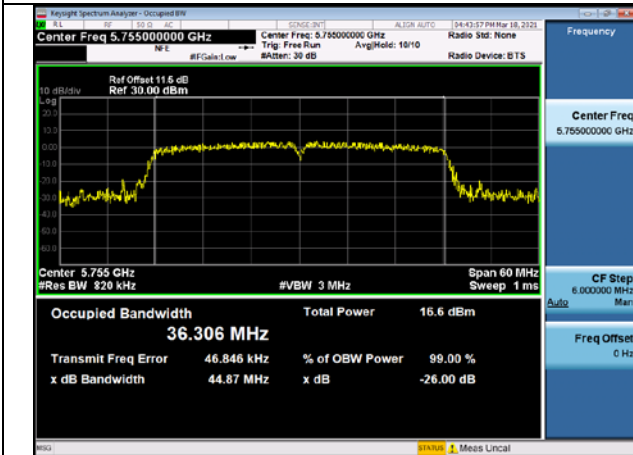
Test Mode:802. 11n HT20 Chain1



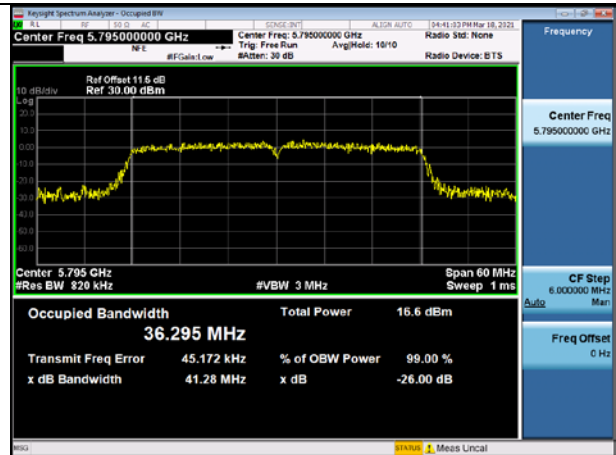
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5755	Chain0	44.87
	Chain1	40.47
5795	Chain0	41.28
	Chain1	40.30

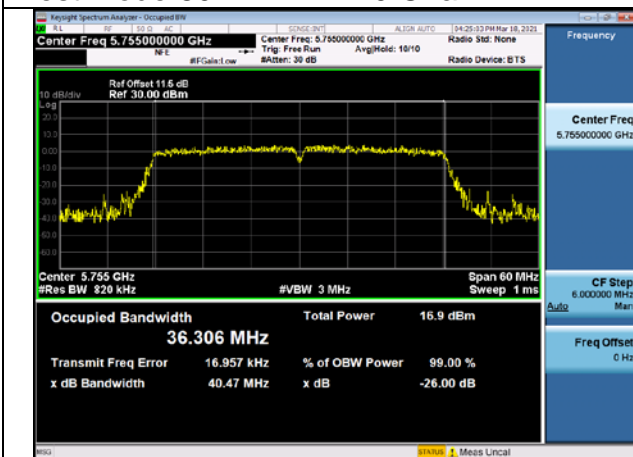
Test Mode:802. 11n HT40 Chain0



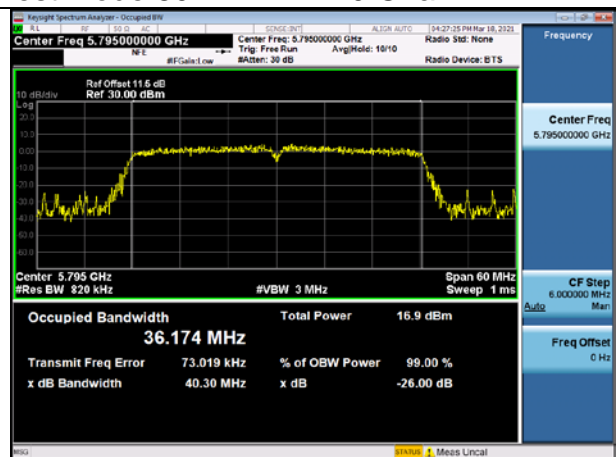
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1



Test Mode:802. 11n HT40 Chain1

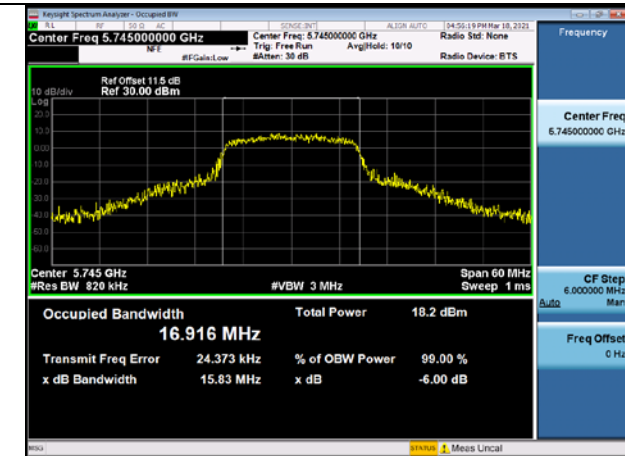


### Occupied Bandwidth

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	16.916
	Chain1	16.745
5785	Chain0	16.850
	Chain1	16.777
5825	Chain0	16.929
	Chain1	16.725

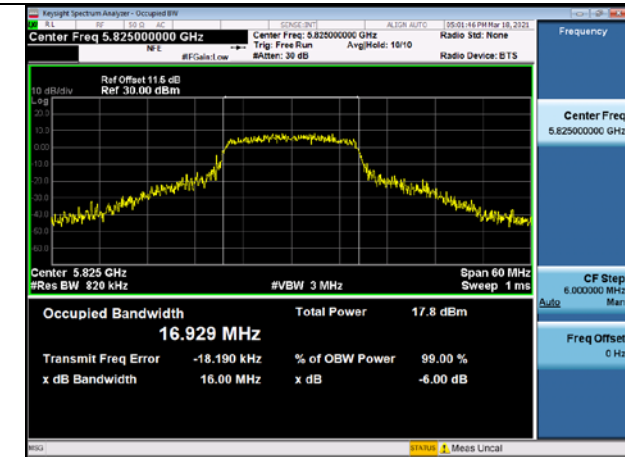
Test Mode:802.11a Chain0



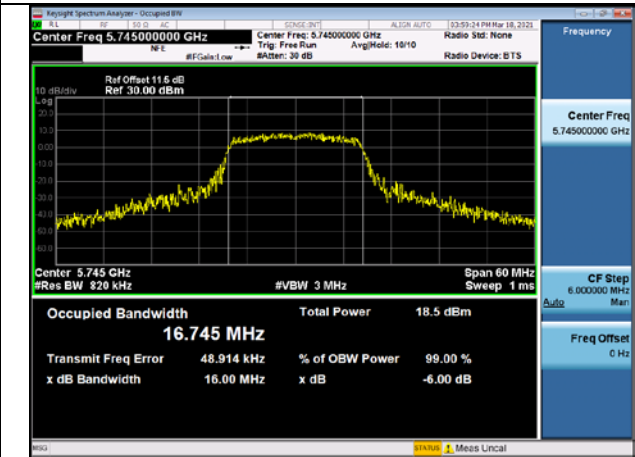
Test Mode:802.11a Chain0



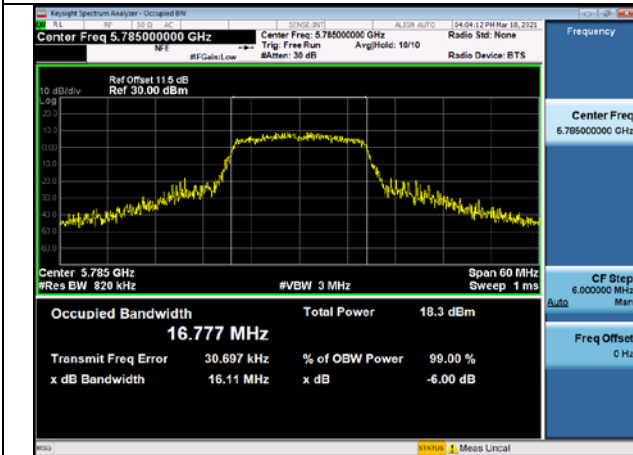
Test Mode:802.11a Chain0



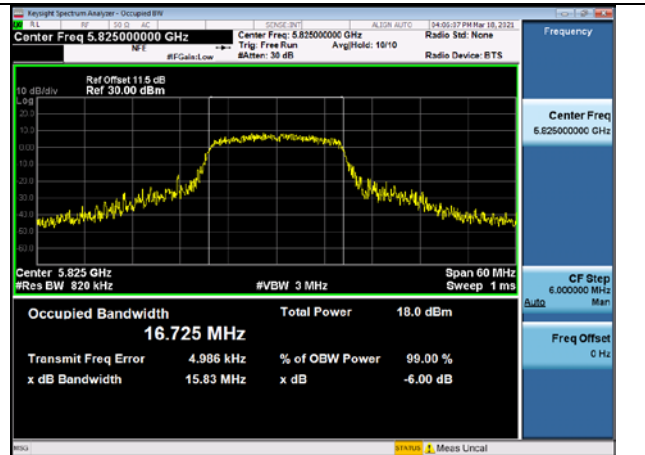
Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



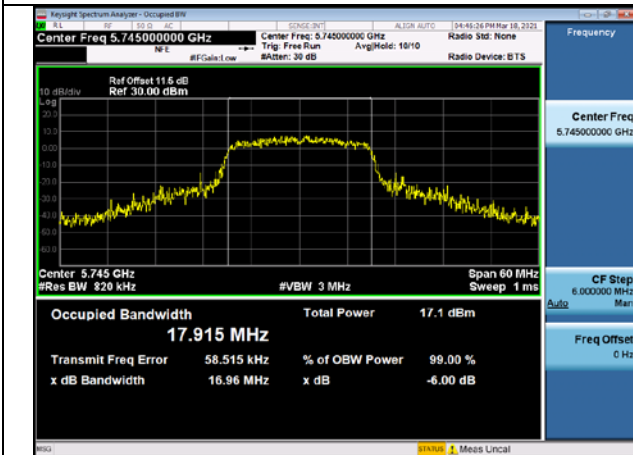
Test Mode:802.11a Chain1



Test Mode:802.11n HT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain0	17.915
	Chain1	17.900
5785	Chain0	17.970
	Chain1	17.921
5825	Chain0	18.056
	Chain1	17.829

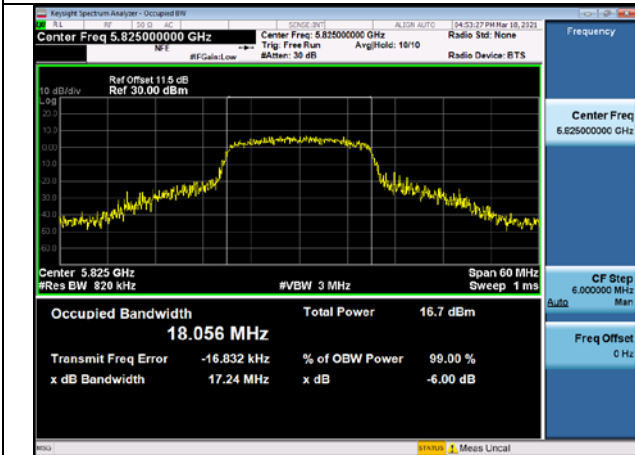
Test Mode:802.11n HT20 Chain0



Test Mode:802.11n HT20 Chain0



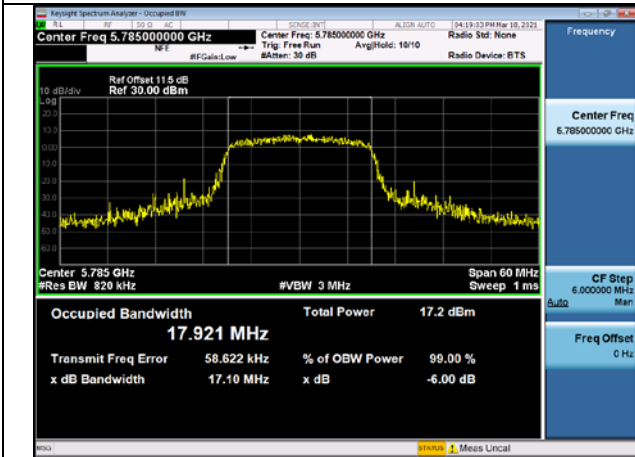
Test Mode:802. 11n HT20 Chain0



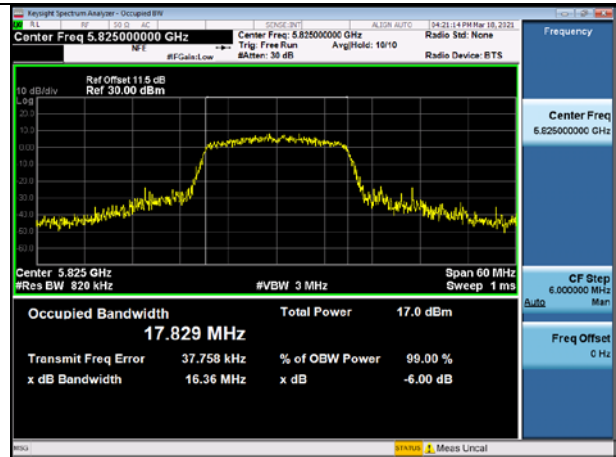
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1

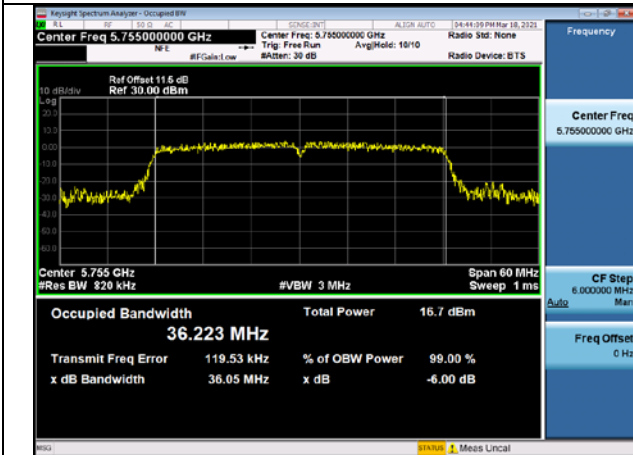




Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5755	Chain0	36.223
	Chain1	36.210
5795	Chain0	36.264
	Chain1	36.164

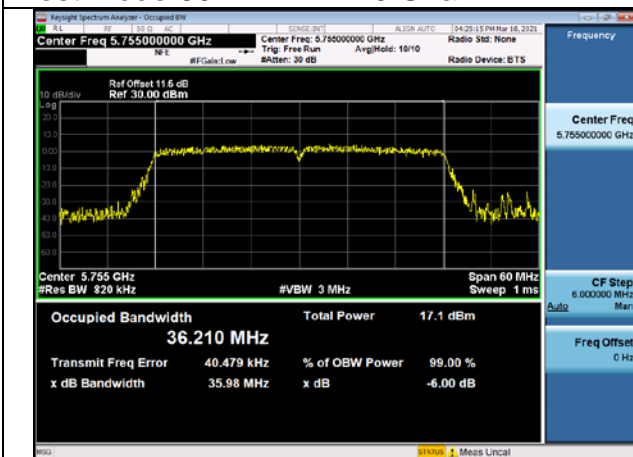
Test Mode:802. 11n HT40 Chain0



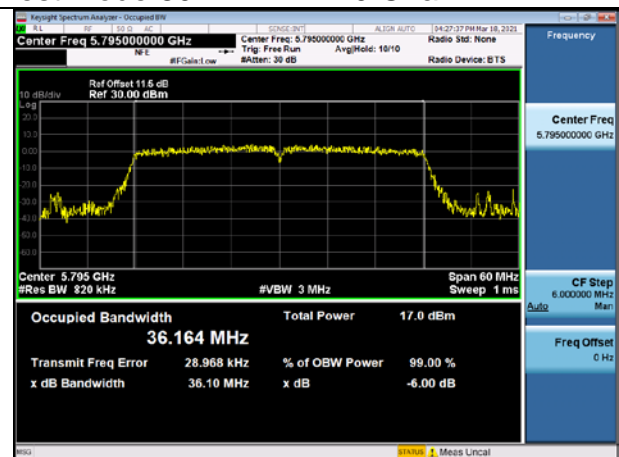
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1



Test Mode:802. 11n HT40 Chain1



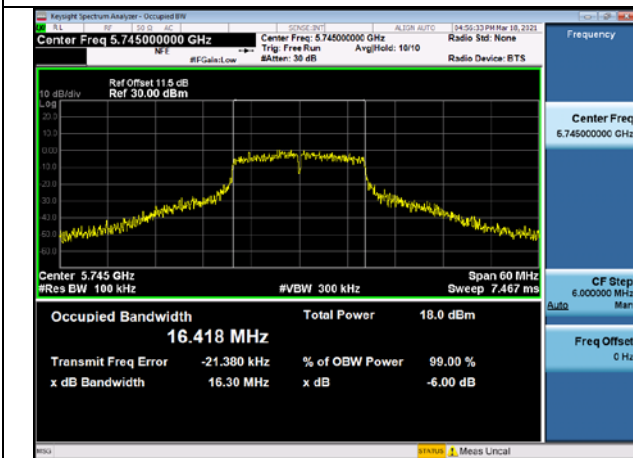
**6dB Bandwidth**

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

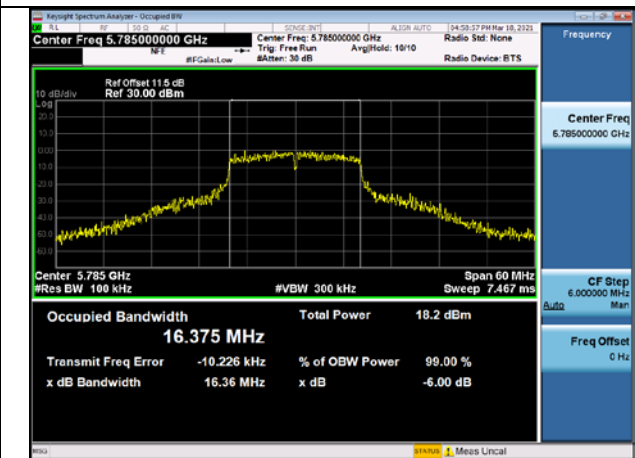
Test Mode:802.11a

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5745	Chain0	16.30
	Chain1	15.95
5785	Chain0	16.36
	Chain1	15.53
5825	Chain0	16.06
	Chain1	16.35

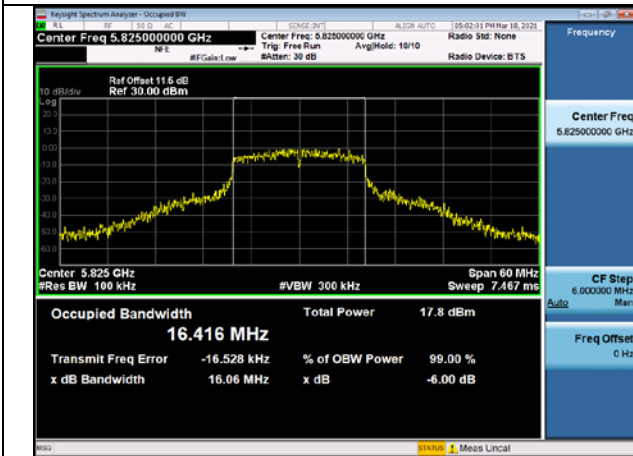
Test Mode:802.11a Chain0



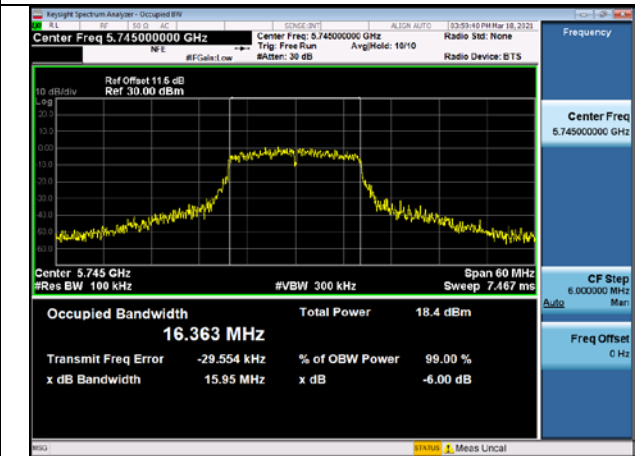
Test Mode:802.11a Chain0



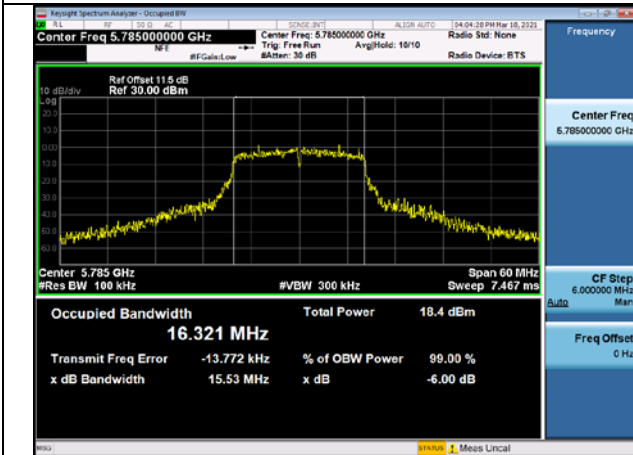
Test Mode:802.11a Chain0



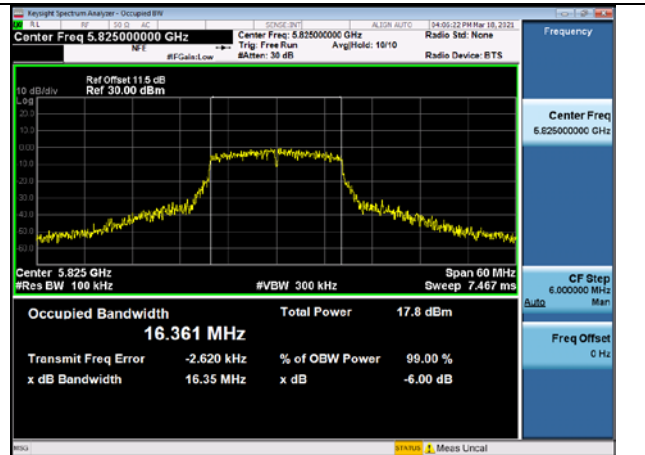
Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



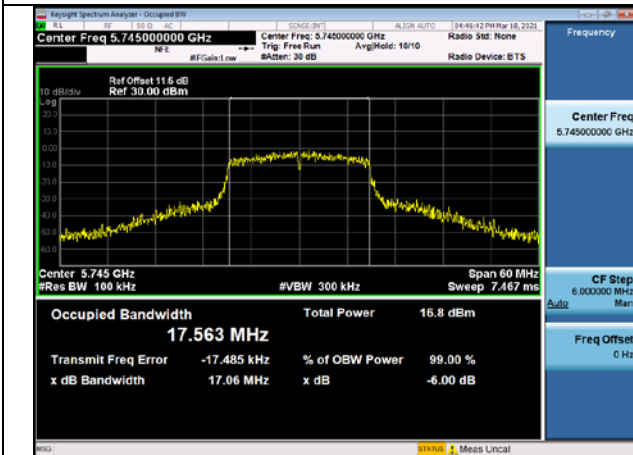
Test Mode:802.11a Chain1



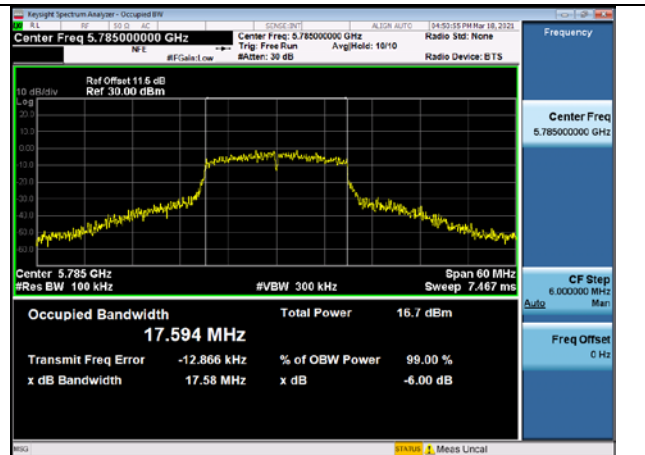
Test Mode:802.11n HT20

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5745	Chain0	17.06
	Chain1	17.59
5785	Chain0	17.58
	Chain1	11.56
5825	Chain0	17.21
	Chain1	17.61

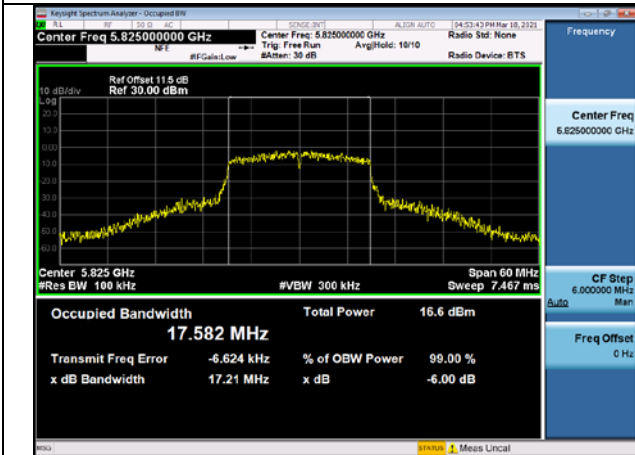
Test Mode:802.11n HT20 Chain0



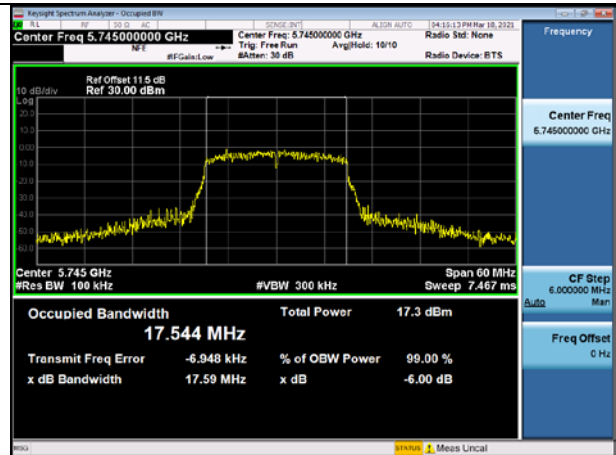
Test Mode:802.11n HT20 Chain0



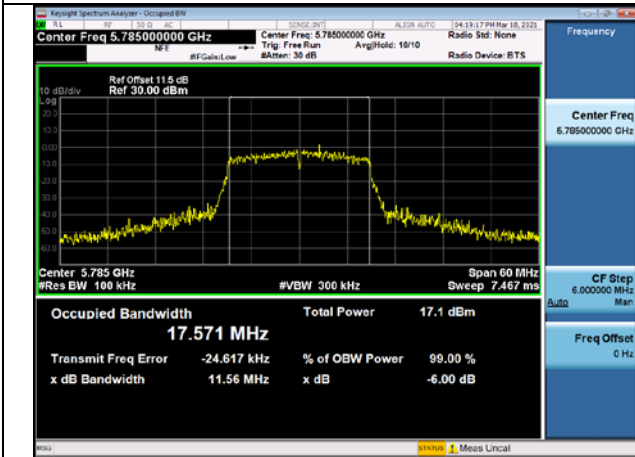
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



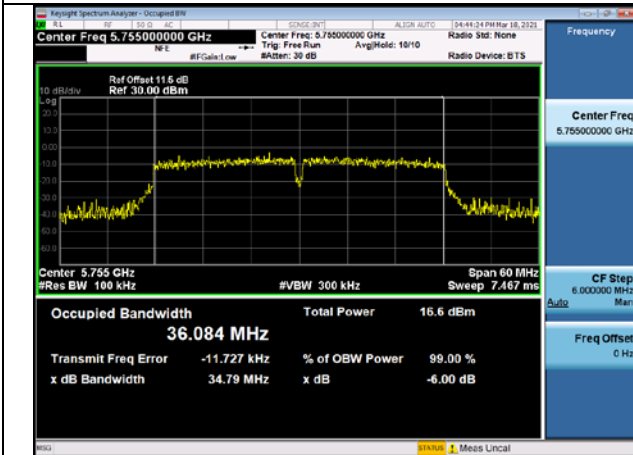
Test Mode:802. 11n HT20 Chain1



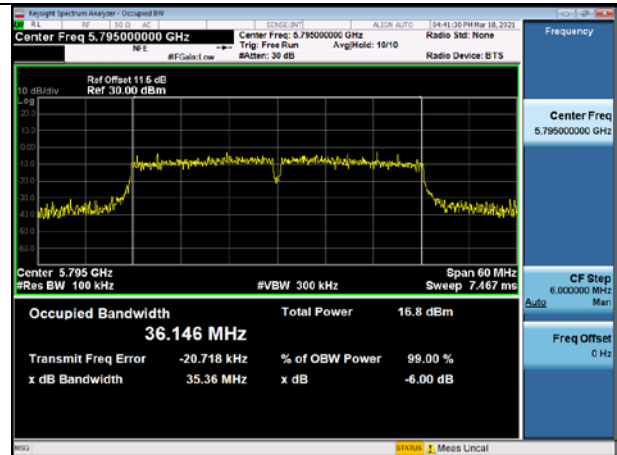
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5755	Chain0	34.79
	Chain1	36.36
5795	Chain0	35.36
	Chain1	35.02

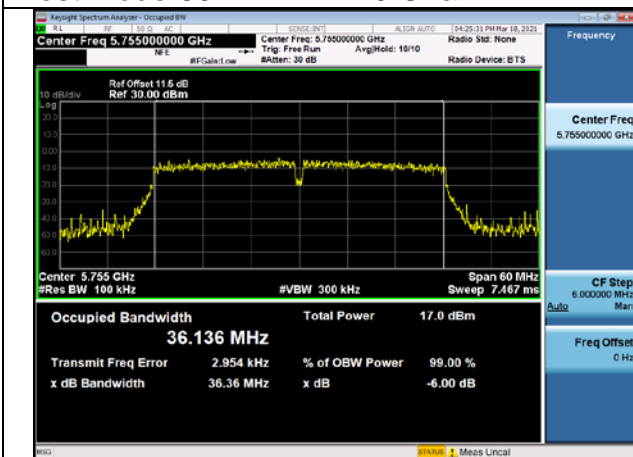
Test Mode:802. 11n HT40 Chain0



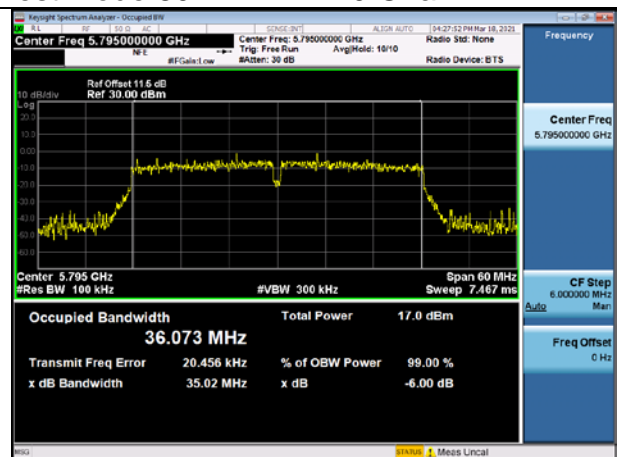
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1



Test Mode:802. 11n HT40 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	0.05	Chain0	2.830
		Chain1	3.272
5785		Chain0	2.907
		Chain1	3.095
5825		Chain0	2.448
		Chain1	2.260

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



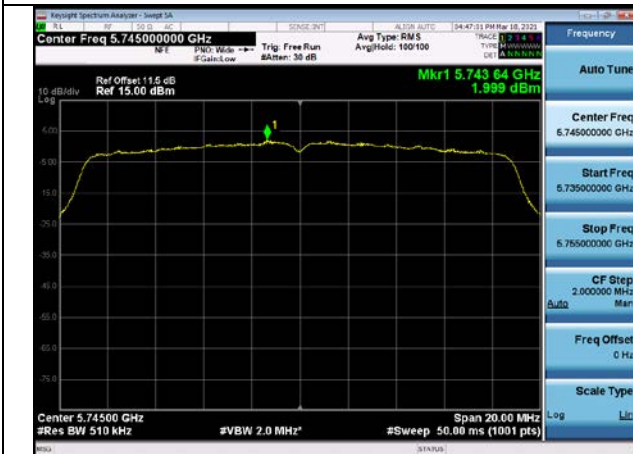
Test Mode:802.11a Chain1



Test Mode:802.11n HT20

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5745	0.06	Chain0	2.050
		Chain1	2.337
		Chain0+Chain1	5.206
5785		Chain0	1.808
		Chain1	2.215
		Chain0+Chain1	5.027
5825		Chain0	1.664
		Chain1	1.872
		Chain0+Chain1	4.780

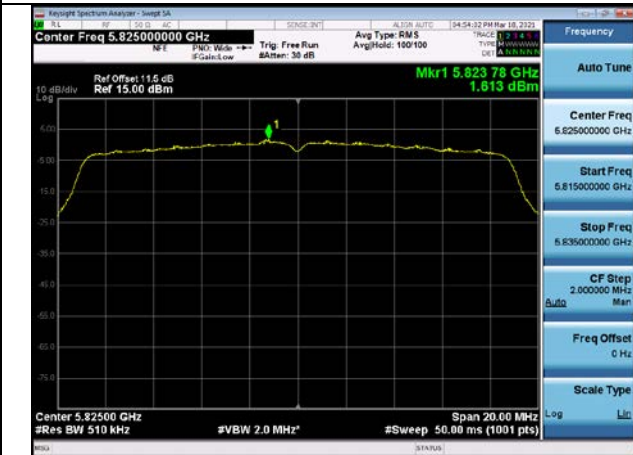
Test Mode:802.11n HT20 Chain0



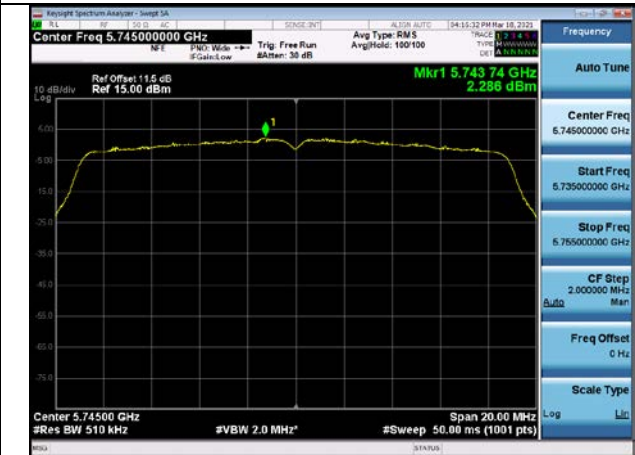
Test Mode:802.11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1

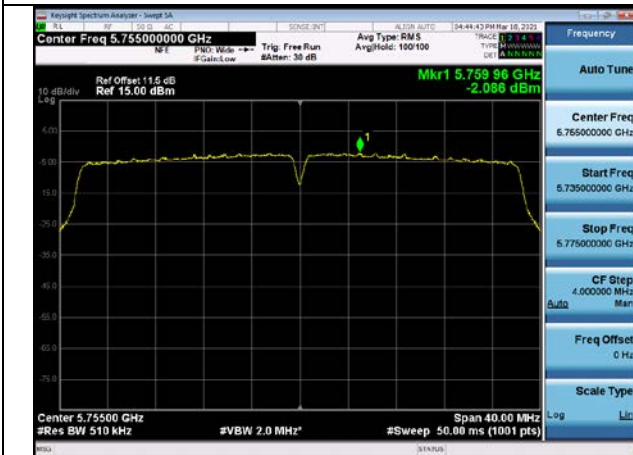




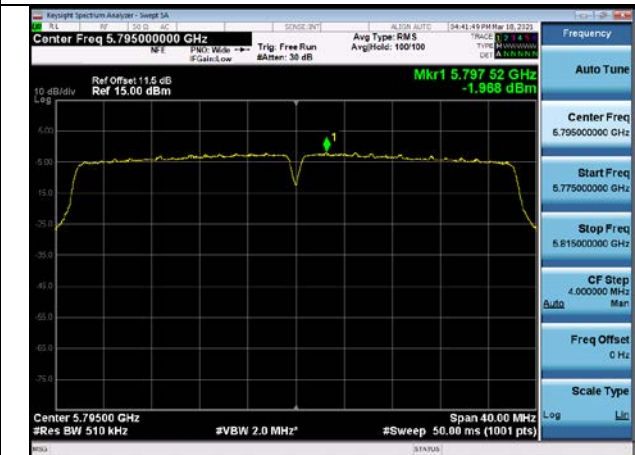
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5755	0.10	Chain0	-1.986
		Chain1	-1.533
		Chain0+Chain1	1.257
5795		Chain0	-1.868
		Chain1	-1.653
		Chain0+Chain1	1.251

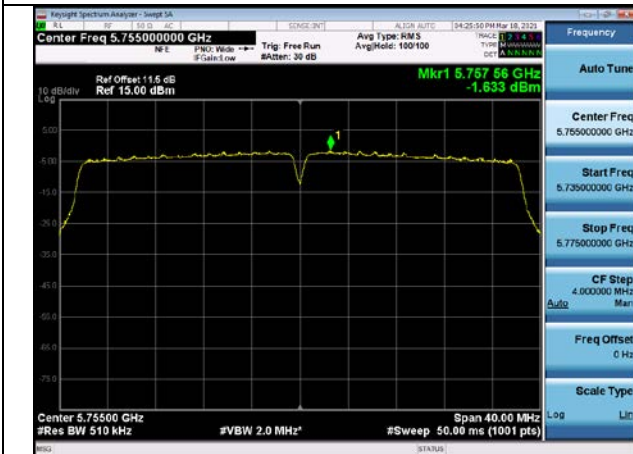
Test Mode:802. 11n HT40 Chain0



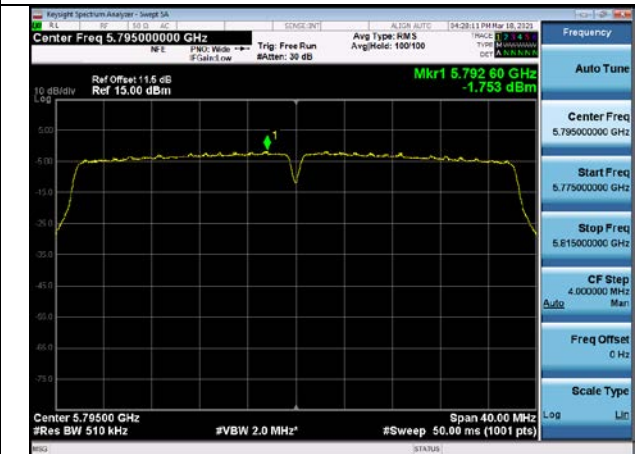
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1



Test Mode:802. 11n HT40 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	5745.068276	11.88	NV	-10
			5745	5745.098966	17.23	NV	0
			5745	5744.957674	-7.37	NV	+10
			5745	5744.940418	-10.37	NV	+20
			5745	5744.900812	-17.27	HV	+20
			5745	5745.028397	4.94	LV	+20
			5745	5745.035186	6.12	NV	+30
			5745	5744.939658	-10.50	NV	+40
			5745	5744.996945	-0.53	NV	+50
			5745	5744.983335	-2.90	NV	+60
		5745	5744.977491	-3.92	NV	+70	
		5745	5745.013206	2.30	NV	-10	
		5745	5745.082879	14.43	NV	0	
		5745	5745.009725	1.69	NV	+10	
		5745	5744.968615	-5.46	HV	+20	
		5745	5745.087024	15.15	LV	+20	
		5745	5745.018877	3.29	NV	+20	
		5745	5744.939126	-10.60	NV	+30	
		5745	5745.093047	16.20	NV	+40	
		5745	5745.017104	2.98	NV	+50	
5745	5745.030758	5.35	NV	+60			
5745	5745.026115	4.55	NV	+70			