

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

### Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5745	82.96%	0.81
802. 11n HT20	5745	89.33%	0.49
802. 11n HT40	5755	64.01%	1.94
802. 11ac VHT20	5745	80.39%	0.95
802. 11ac VHT40	5755	80.80%	0.93
802. 11ac VHT80	5775	40.07%	3.97

**Output Power  
NII3**

Mode	Freq (MHz)	Chain	Conducted average power output(dBm)
802.11a	5745	Chain0	10.20
	5785	Chain0	9.90
	5825	Chain0	9.20
802.11n20M	5745	Chain0	10.30
	5785	Chain0	10.10
	5825	Chain0	9.50
802.11n40M	5755	Chain0	9.40
	5795	Chain0	9.40
802.11ac20M	5745	Chain0	10.50
	5785	Chain0	10.00
	5825	Chain0	9.60
802.11ac40M	5755	Chain0	9.70
	5795	Chain0	9.40
802.11ac80M	5775	Chain0	8.90

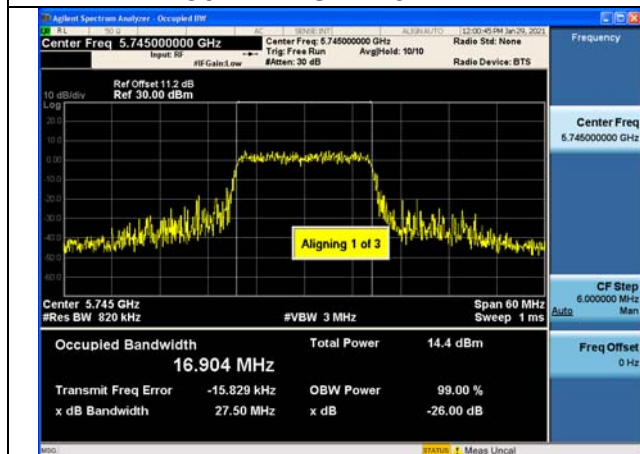
### Emission Bandwidth

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

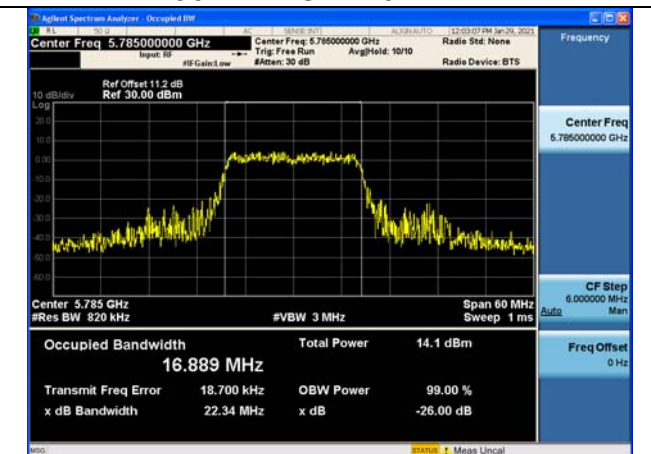
Test Mode:802.11a

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain0	27.50
5785	Chain0	22.34
5825	Chain0	19.56

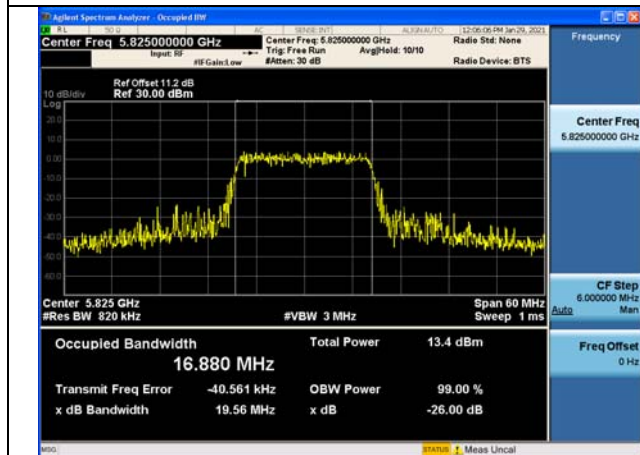
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



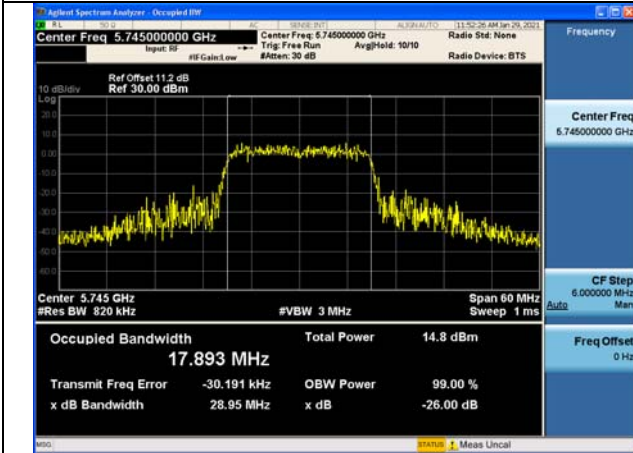
Test Mode:802.11a Chain0



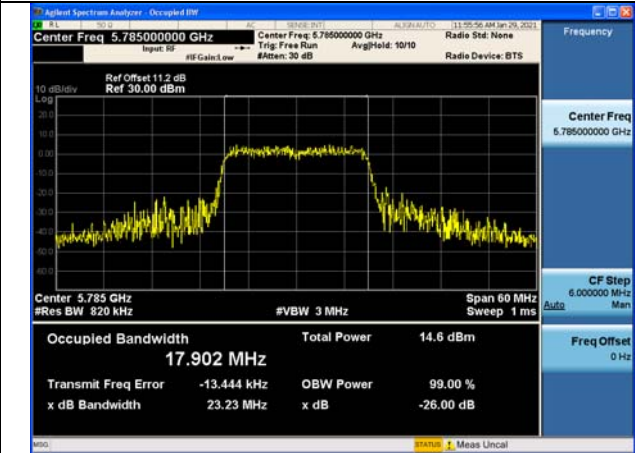
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain0	28.95
5785	Chain0	23.23
5825	Chain0	21.08

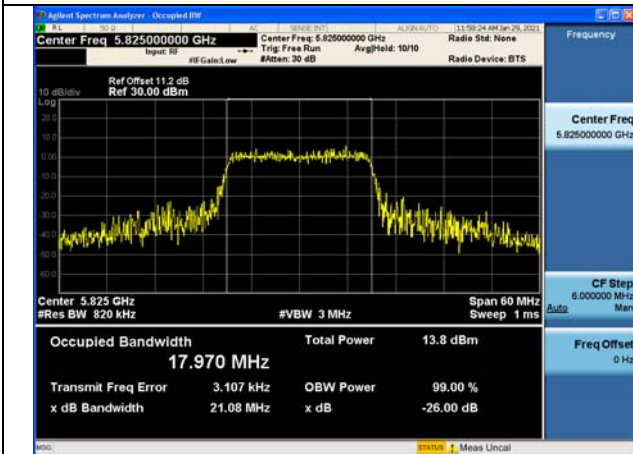
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



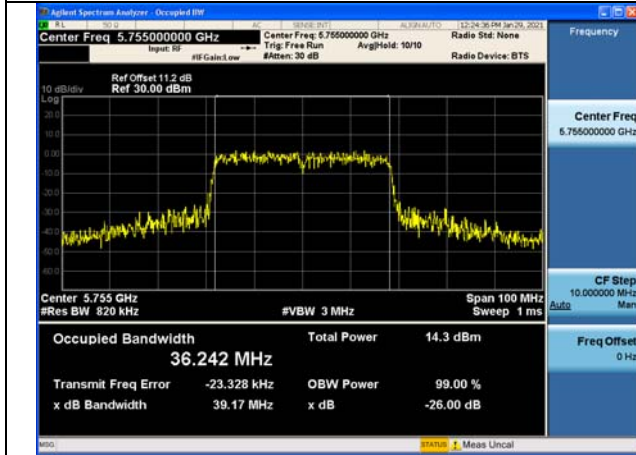
Test Mode:802. 11n HT20 Chain0



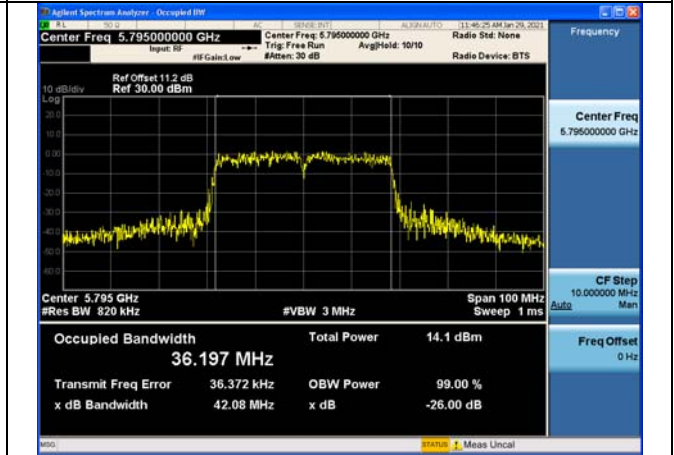
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5755	Chain0	39.17
5795	Chain0	42.08

Test Mode:802. 11n HT40 Chain0



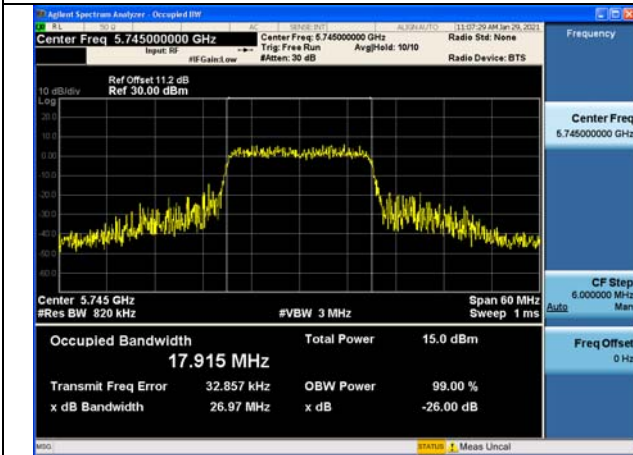
Test Mode:802. 11n HT40 Chain0



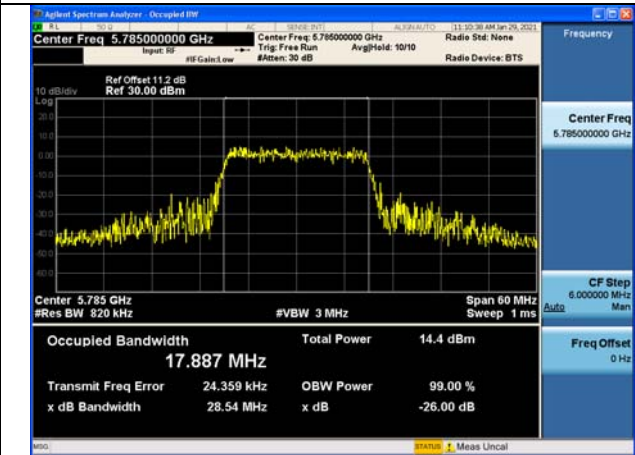
Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain0	26.97
5785	Chain0	28.54
5825	Chain0	33.22

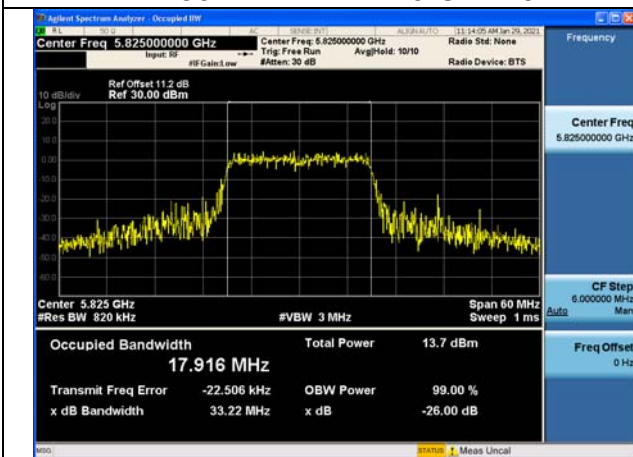
Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0



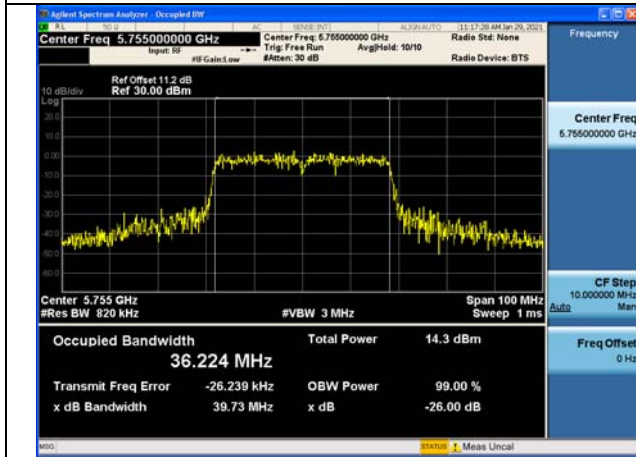
Test Mode:802. 11ac VHT20 Chain0



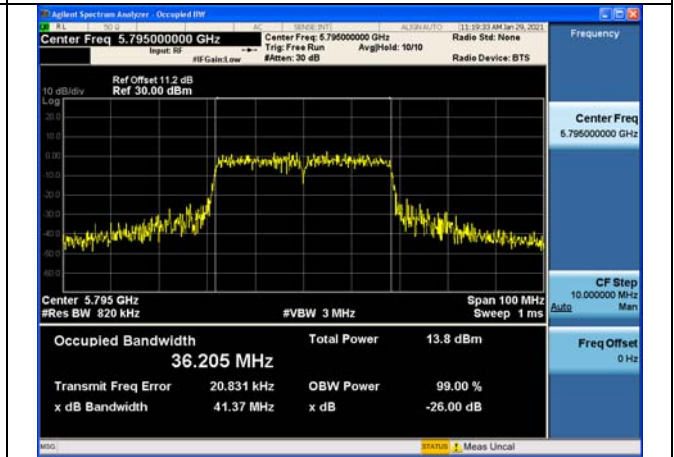
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5755	Chain0	39.73
5795	Chain0	41.37

Test Mode:802. 11ac VHT40 Chain0



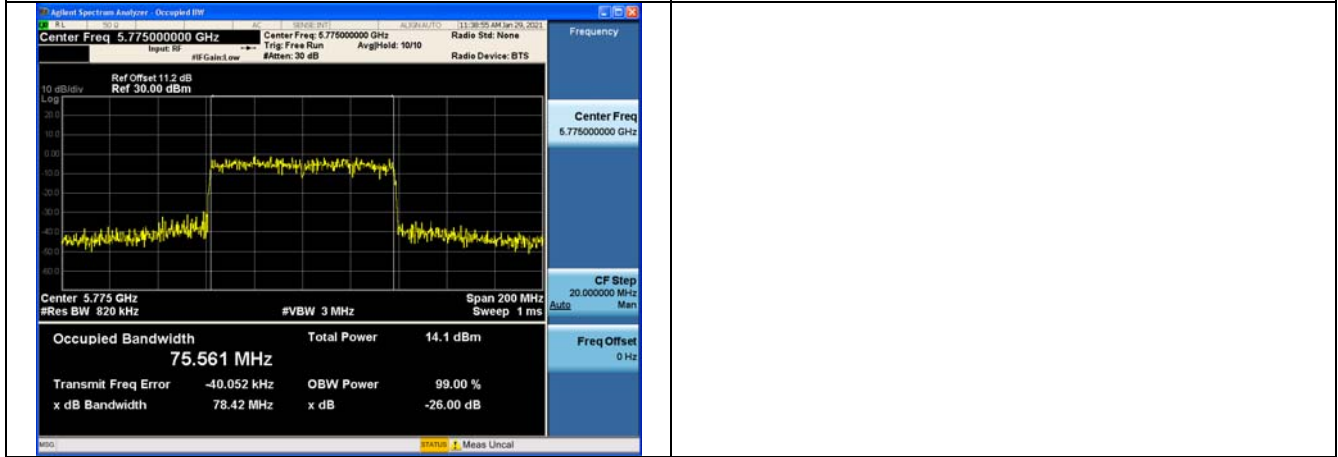
Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5775	Chain0	78.42

Test Mode:802. 11ac VHT80 Chain0





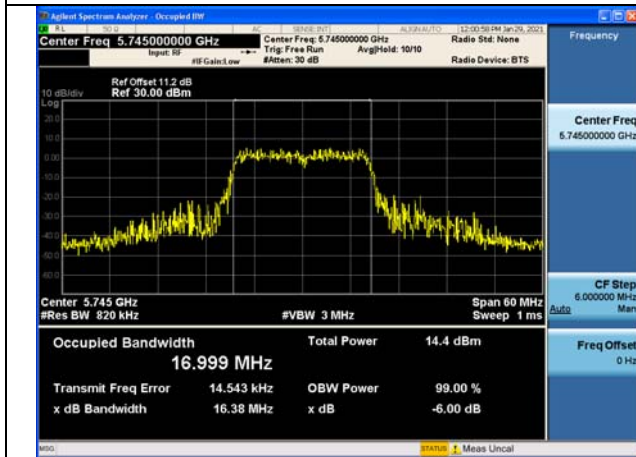
### Occupied Bandwidth

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

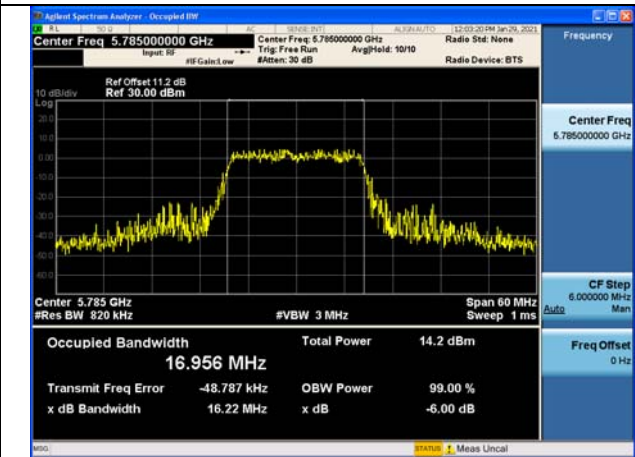
Test Mode:802.11a

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain0	16.999
5785	Chain0	16.956
5825	Chain0	16.974

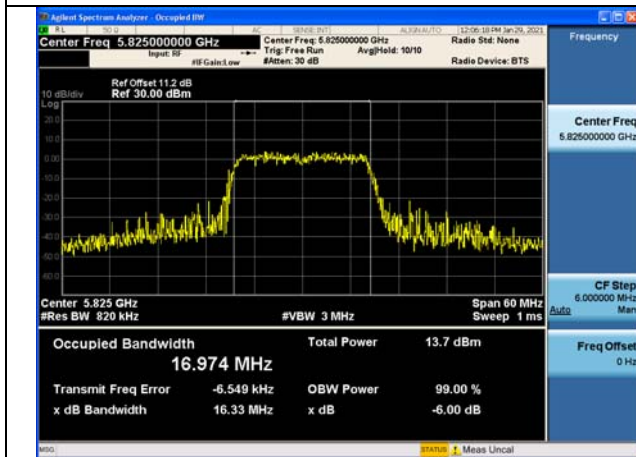
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



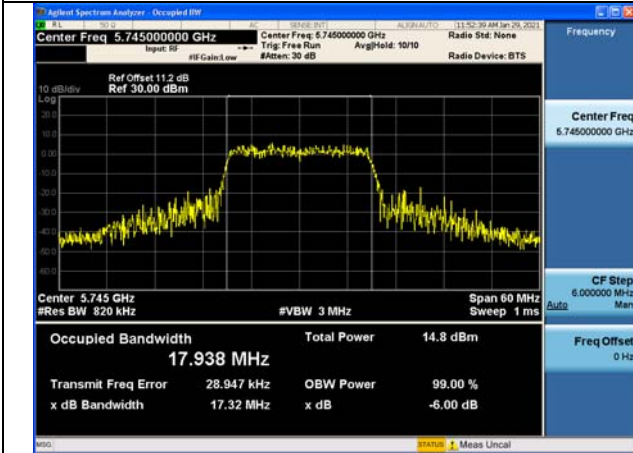
Test Mode:802.11a Chain0



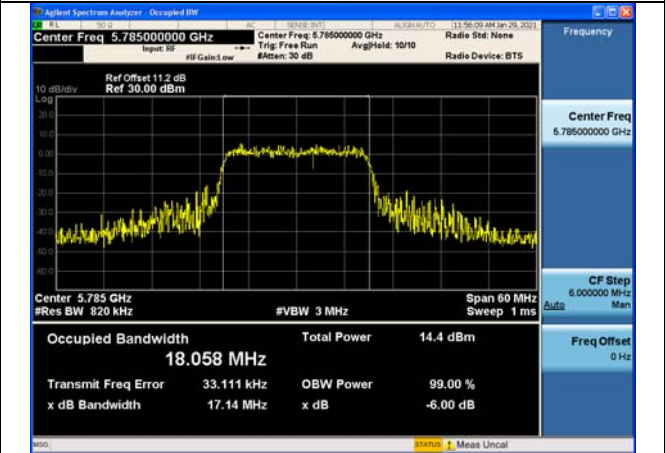
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain0	17.938
5785	Chain0	18.058
5825	Chain0	17.942

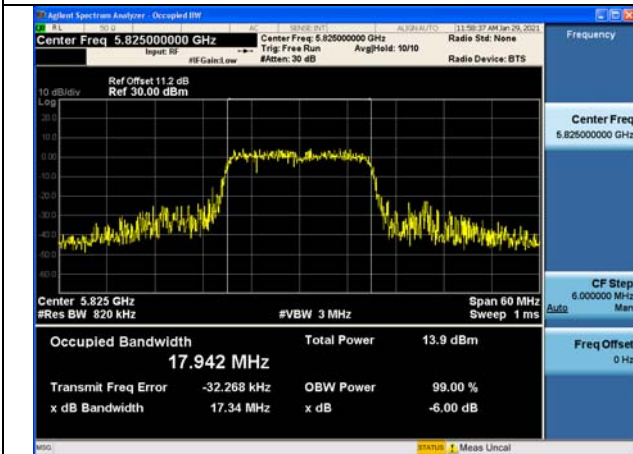
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



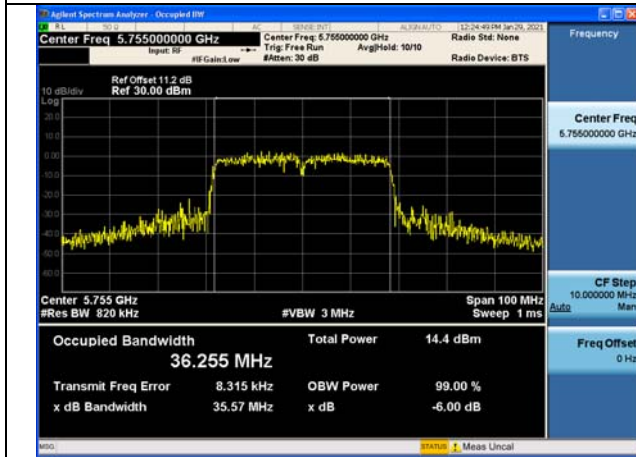
Test Mode:802. 11n HT20 Chain0



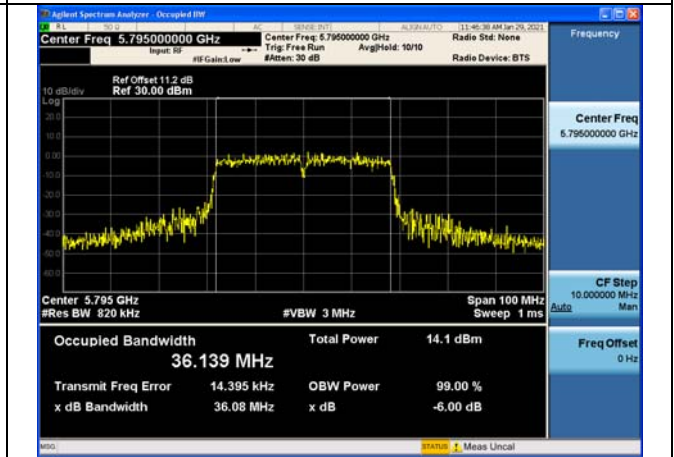
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5755	Chain0	36.255
5795	Chain0	36.139

Test Mode:802. 11n HT40 Chain0



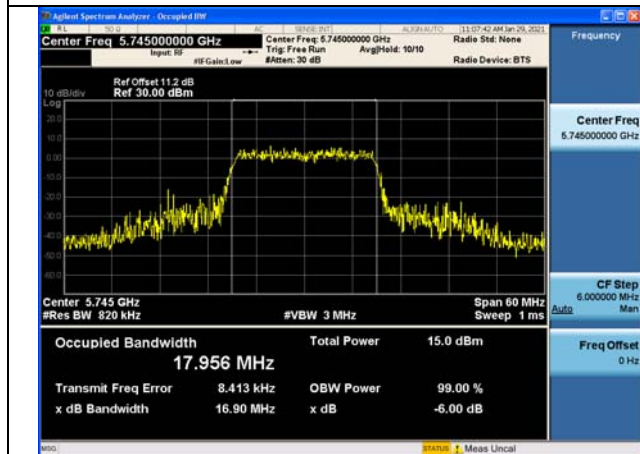
Test Mode:802. 11n HT40 Chain0



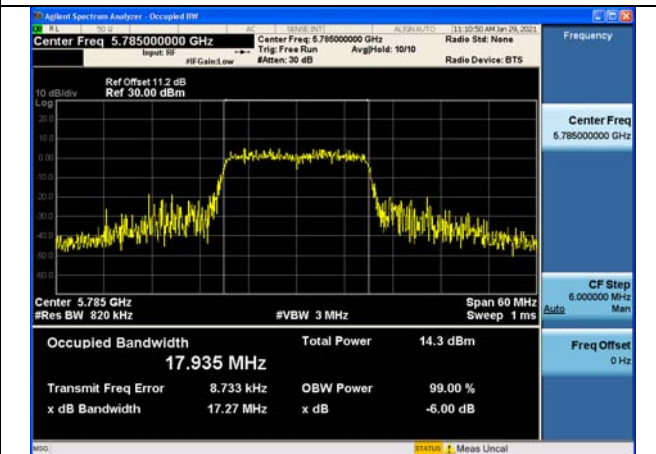
Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain0	17.956
5785	Chain0	17.935
5825	Chain0	17.906

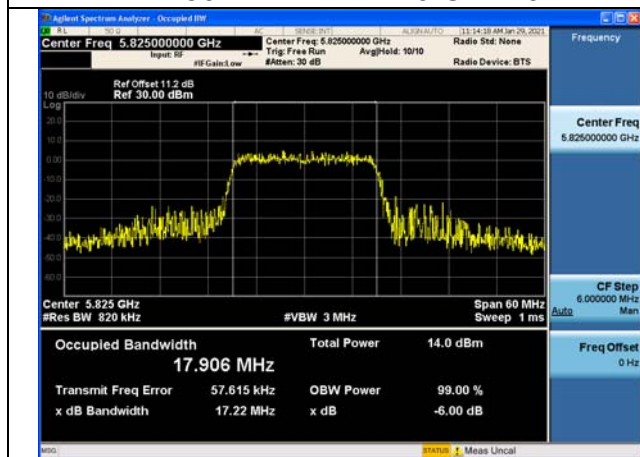
Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0



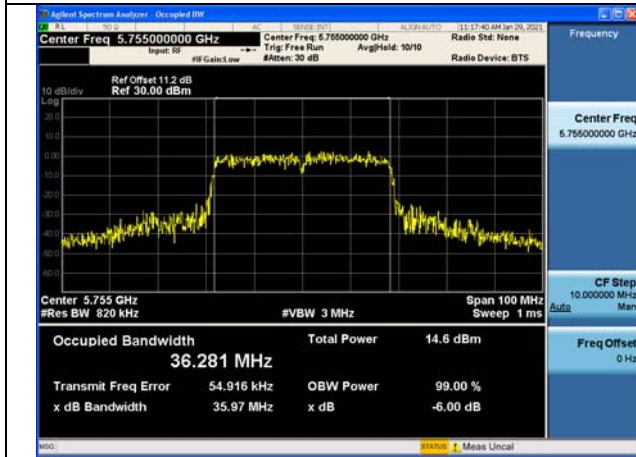
Test Mode:802. 11ac VHT20 Chain0



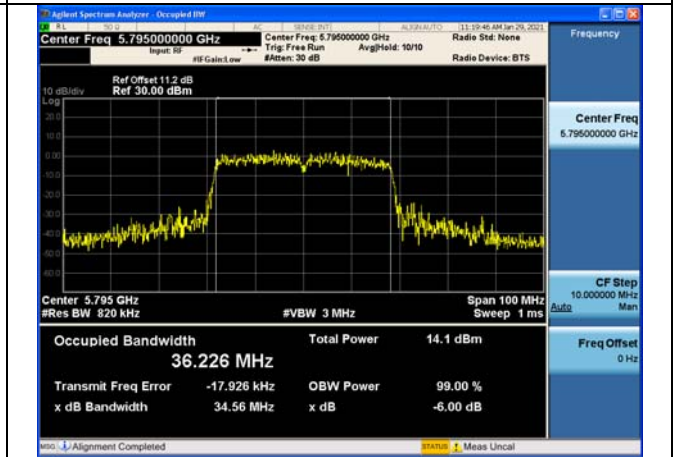
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5755	Chain0	36.281
5795	Chain0	36.226

Test Mode:802. 11ac VHT40 Chain0



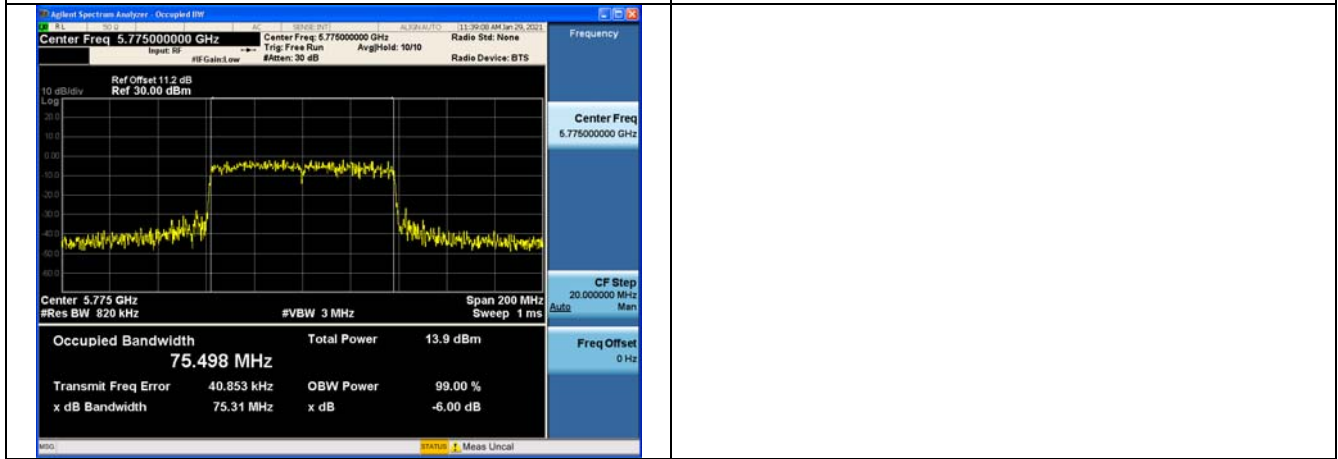
Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5775	Chain0	75.498

Test Mode:802. 11ac VHT80 Chain0



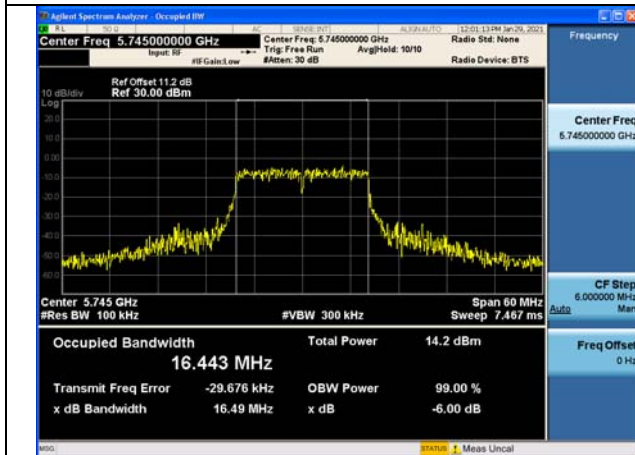
### 6dB Bandwidth

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

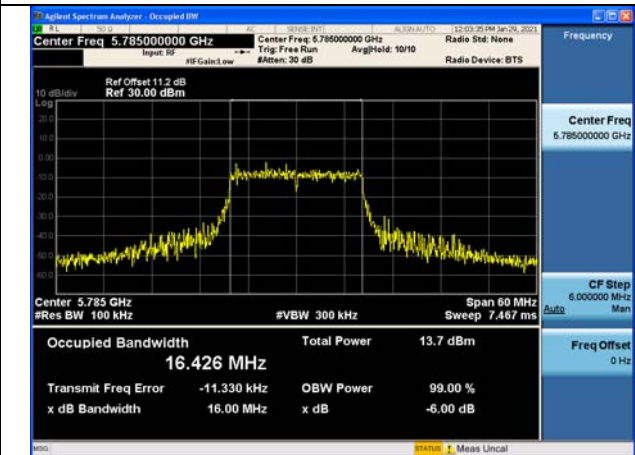
Test Mode:802.11a

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5745	Chain0	16.49
5785	Chain0	16.00
5825	Chain0	16.35

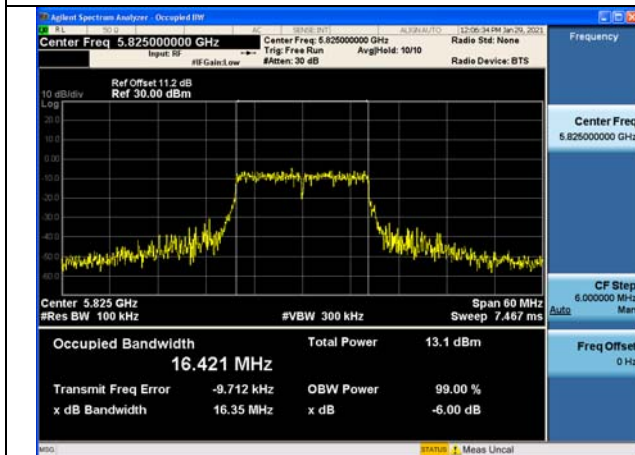
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



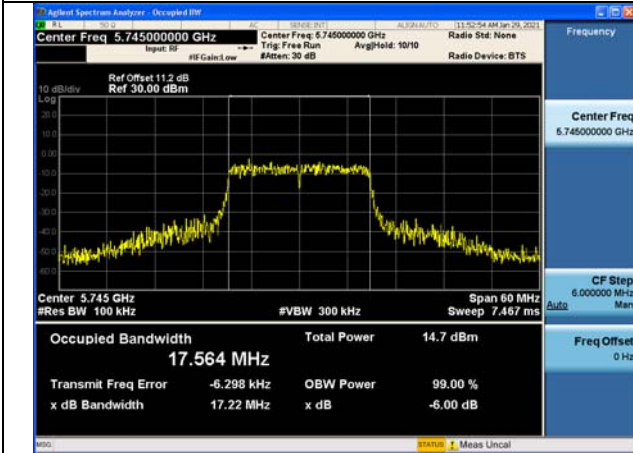
Test Mode:802.11a Chain0



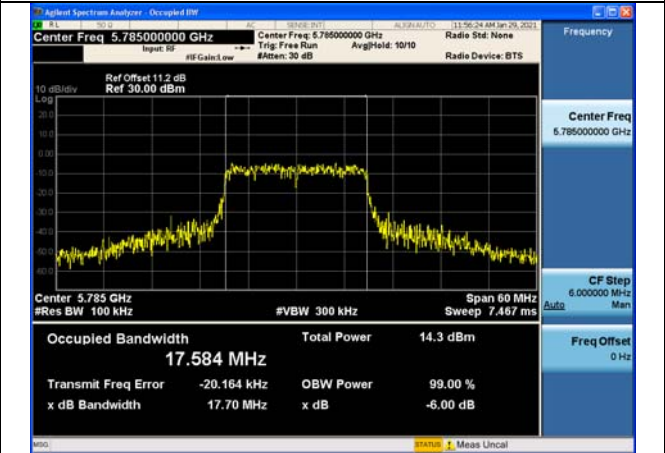
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5745	Chain0	17.22
5785	Chain0	17.70
5825	Chain0	17.44

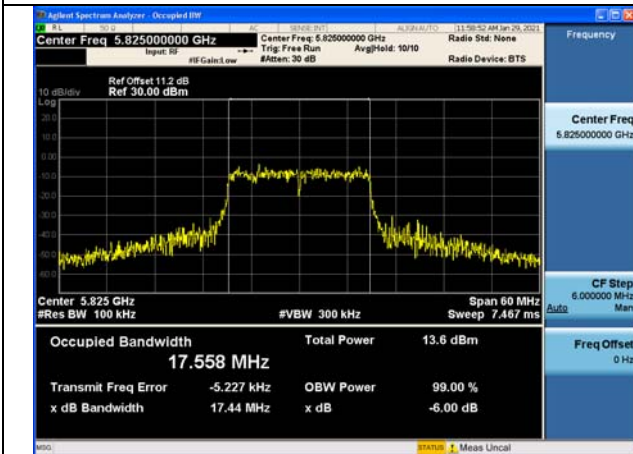
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0

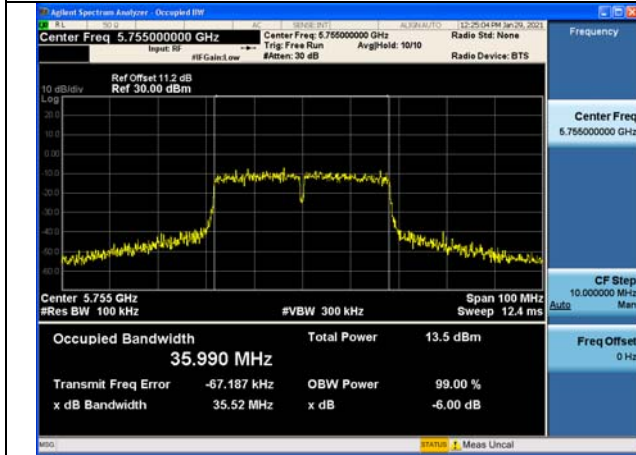




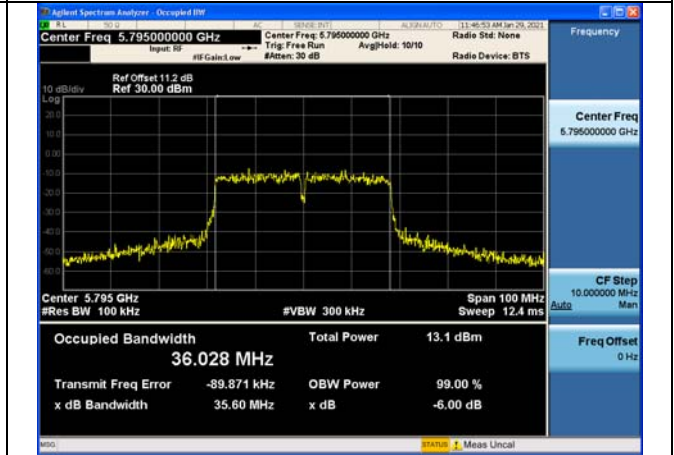
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5755	Chain0	35.52
5795	Chain0	35.60

Test Mode:802. 11n HT40 Chain0



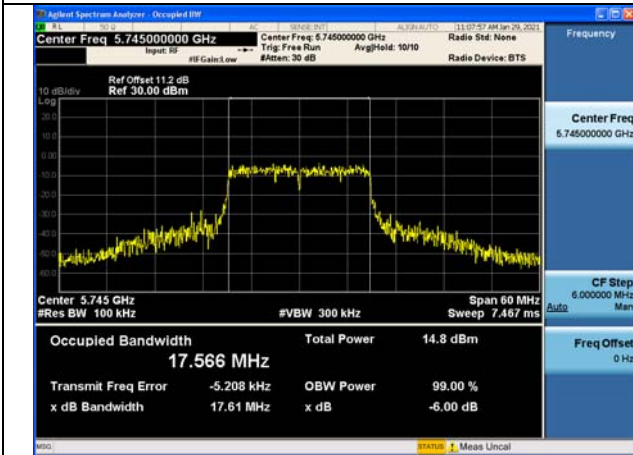
Test Mode:802. 11n HT40 Chain0



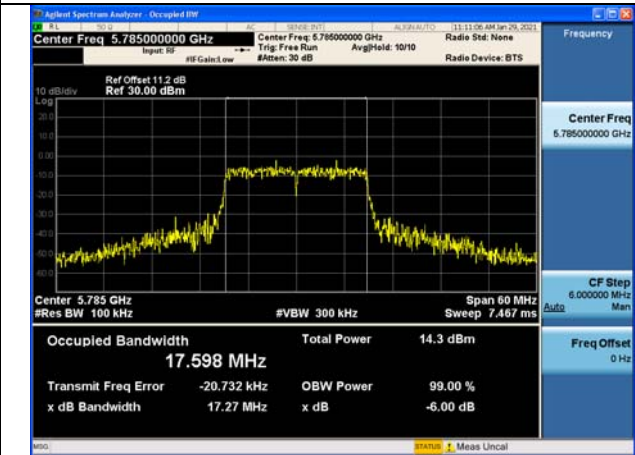
Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5745	Chain0	17.61
5785	Chain0	17.27
5825	Chain0	17.64

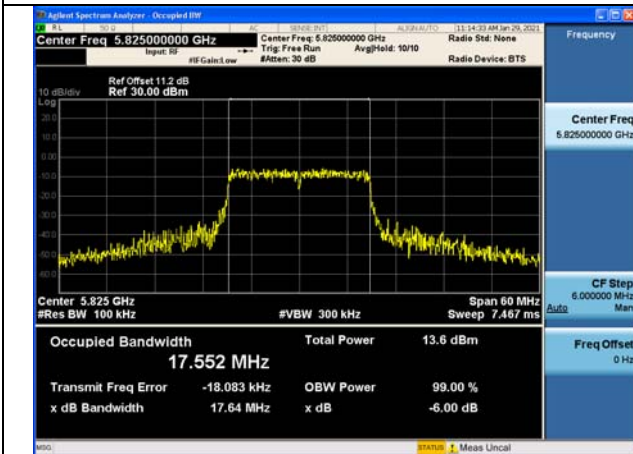
Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0



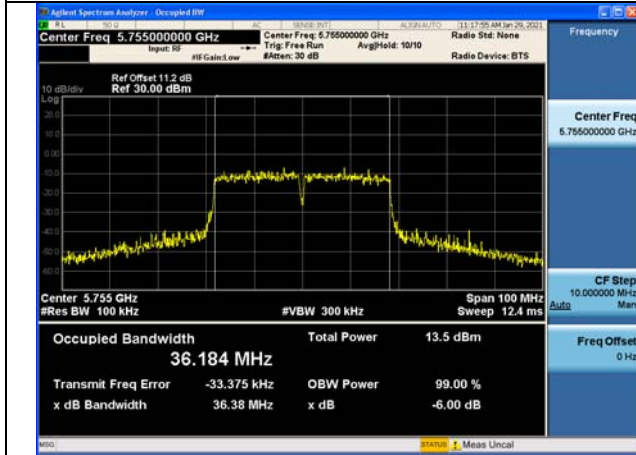
Test Mode:802. 11ac VHT20 Chain0



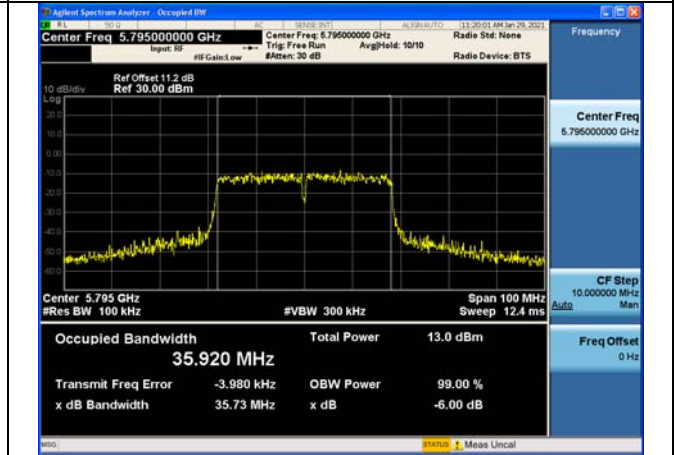
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5755	Chain0	36.38
5795	Chain0	35.73

Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5775	Chain0	76.25

Test Mode:802. 11ac VHT80 Chain0



### 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	0.81	Chain0	-1.913
5785		Chain0	-2.425
5825		Chain0	-2.805

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)
5745	0.49	Chain0	-2.048
5785		Chain0	-2.444
5825		Chain0	-3.112

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)
5755	1.94	Chain0	-3.386
5795		Chain0	-3.904

Test Mode:802. 11n HT40 Chain0



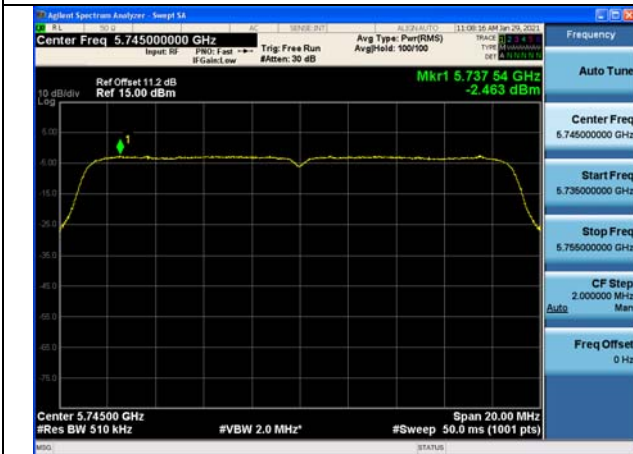
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5745	0.95	Chain0	-1.513
5785		Chain0	-2.014
5825		Chain0	-2.722

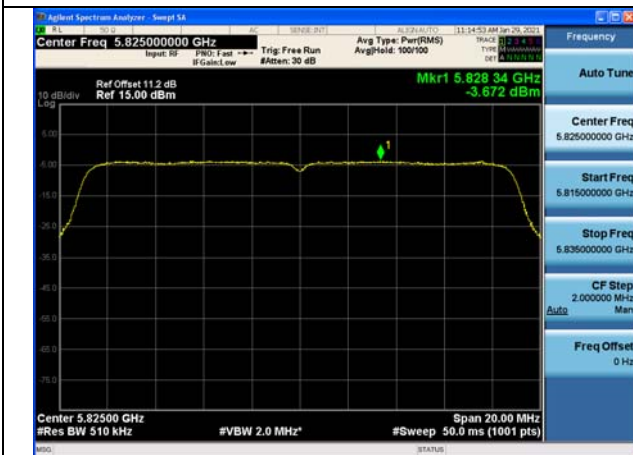
Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0



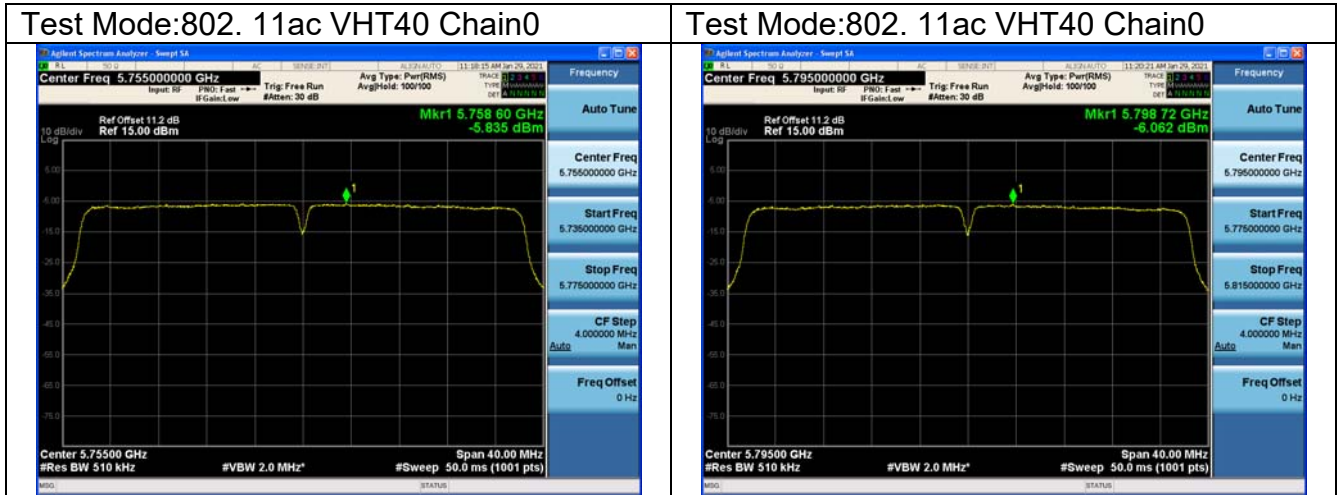
Test Mode:802. 11ac VHT20 Chain0





Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5755	0.93	Chain0	-4.905
5795		Chain0	-5.132



Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5775	3.97	Chain0	-4.619

Test Mode:802. 11ac VHT80 Chain0



## Frequency Stability

### NII3

Mode	Data Rate	Chain	Center Frequency (MHz)	Measured Frequency (MHz)	Frequency Stability (ppm)	Voltage (V)	Temperature (°C)
802.11a	6Mbps	Chain0	5745	5744.98328	2.91	HV	+20
			5745	5744.98336	2.90	LV	+20
			5745	5744.98321	2.92	NV	+30
			5745	5744.983	2.96	NV	+50
			5745	5744.98309	2.94	NV	+40
			5745	5744.98346	2.88	NV	+20
			5745	5744.98393	2.80	NV	-20
			5745	5744.9841	2.77	NV	-30
			5745	5744.98379	2.82	NV	-10
			5745	5744.98356	2.86	NV	+10
5745	5744.98367	2.84	NV	0			