

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Output Power
UNII-3

Mode	Freq (MHz)	Chain	Conducted average power output(dBm)
802.11a	5745	Chain0	14.68
		Chain1	15.44
	5785	Chain0	14.77
		Chain1	15.51
	5825	Chain0	14.55
		Chain1	15.51
802.11n20M	5745	Chain0	14.55
		Chain1	15.26
		Chain0+Chain1	17.93
	5785	Chain0	14.58
		Chain1	15.37
		Chain0+Chain1	18.00
	5825	Chain0	14.47
		Chain1	15.31
		Chain0+Chain1	17.92
802.11n40M	5755	Chain0	14.47
		Chain1	15.38
		Chain0+Chain1	17.96
	5795	Chain0	14.51
		Chain1	15.40
		Chain0+Chain1	17.99
802.11ac20M	5745	Chain0	14.59
		Chain1	15.31
		Chain0+Chain1	17.98
	5785	Chain0	14.54
		Chain1	15.38
		Chain0+Chain1	17.99
	5825	Chain0	14.47
		Chain1	15.24

		Chain0+Chain1	17.88
802.11ac40M	5755	Chain0	12.15
		Chain1	12.93
		Chain0+Chain1	15.57
	5795	Chain0	12.19
		Chain1	14.44
		Chain0+Chain1	16.47
802.11ac80M	5775	Chain0	13.79
		Chain1	15.26
		Chain0+Chain1	17.60

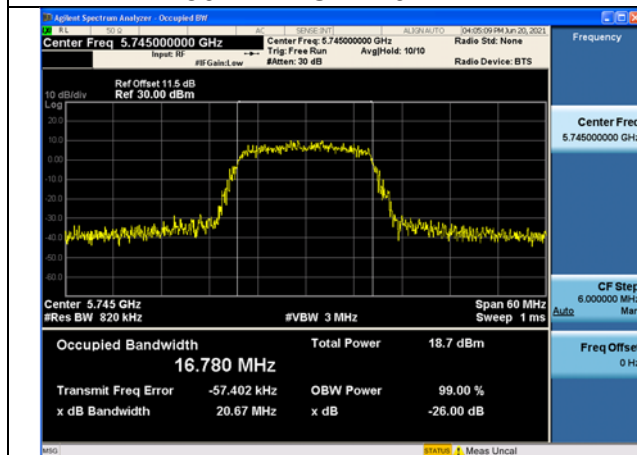
Emission Bandwidth

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

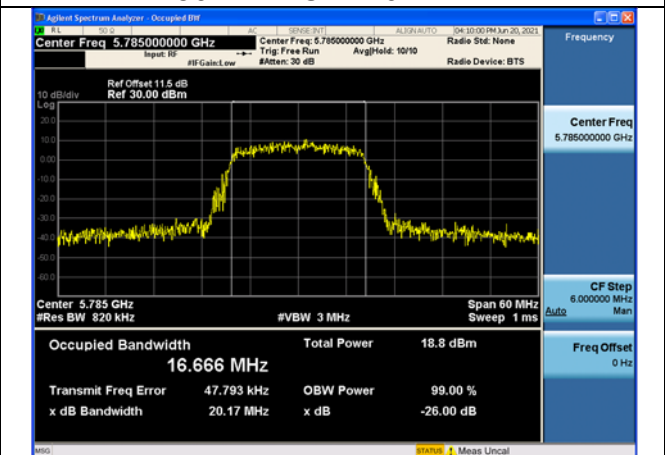
Test Mode:802.11a

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain0	20.67
	Chain1	19.91
5785	Chain0	20.17
	Chain1	19.90
5825	Chain0	19.59
	Chain1	20.42

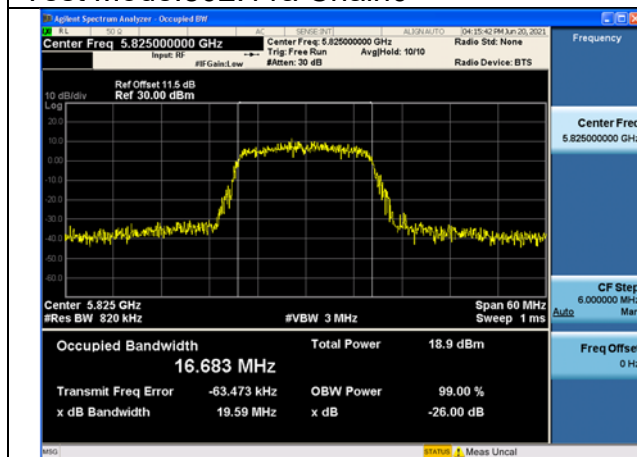
Test Mode:802.11a Chain0



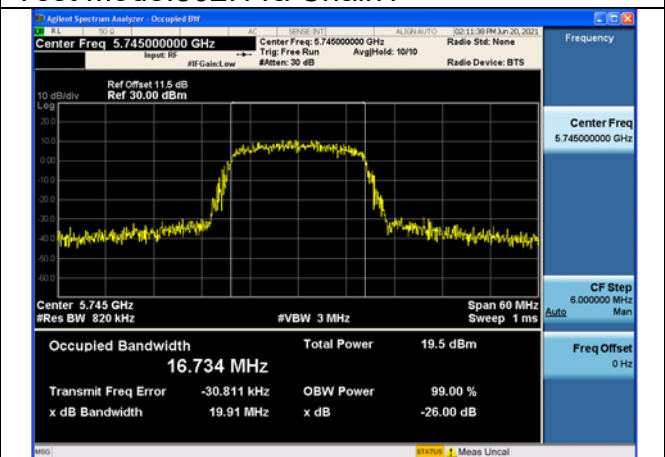
Test Mode:802.11a Chain0



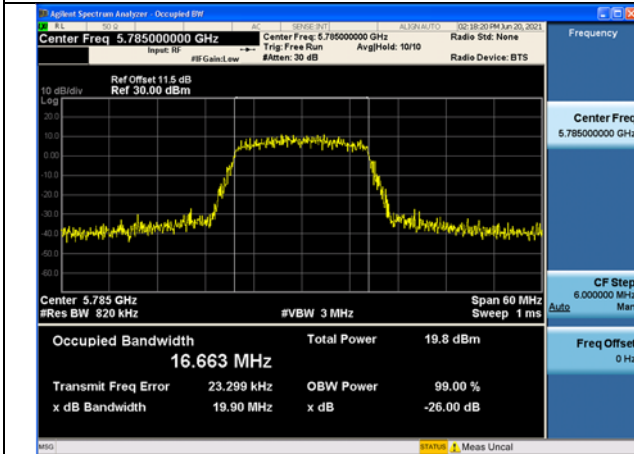
Test Mode:802.11a Chain0



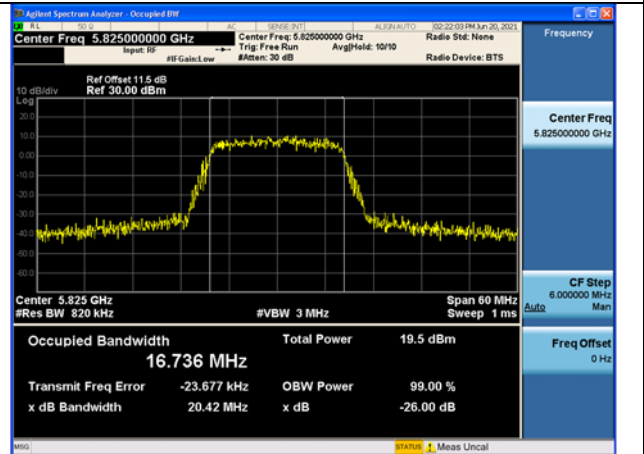
Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



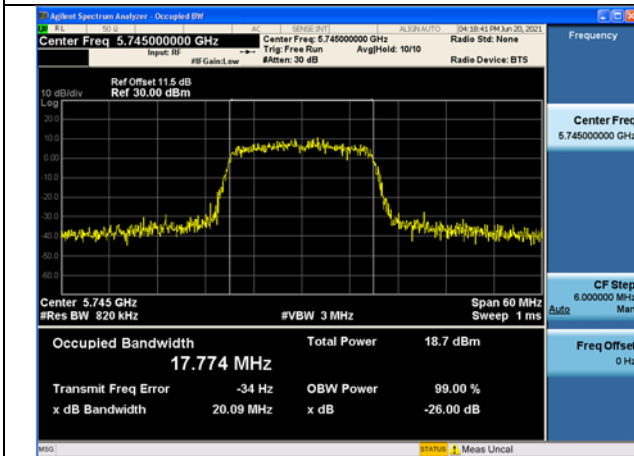
Test Mode:802.11a Chain1



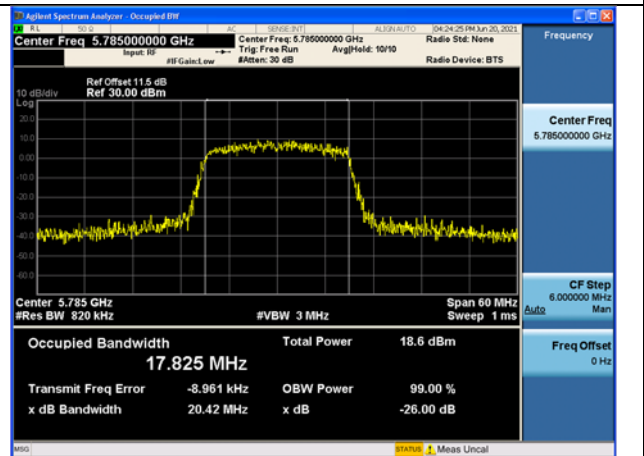
Test Mode:802.11n HT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain0	20.09
	Chain1	20.27
5785	Chain0	20.42
	Chain1	20.71
5825	Chain0	20.26
	Chain1	20.20

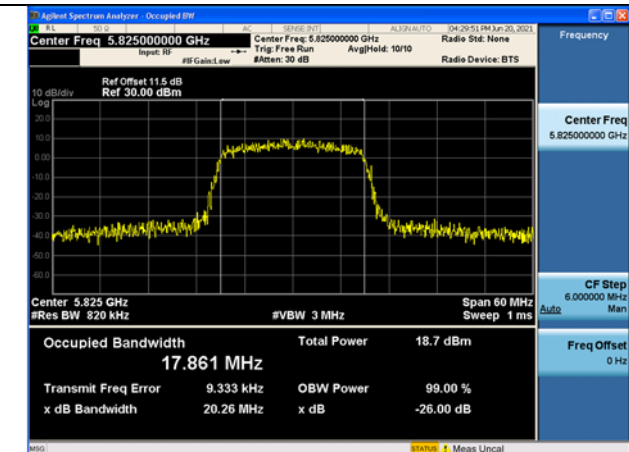
Test Mode:802.11n HT20 Chain0



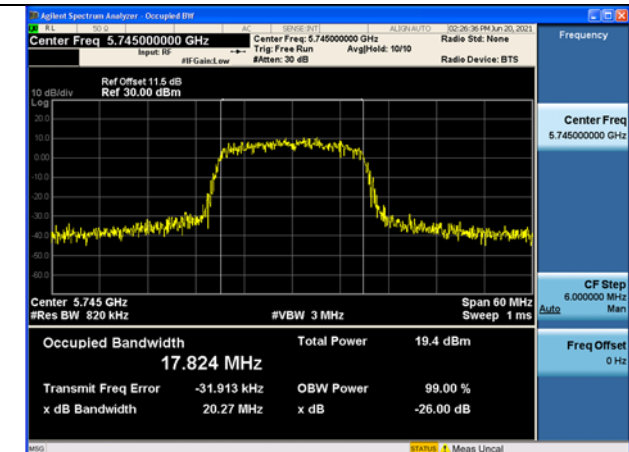
Test Mode:802.11n HT20 Chain0



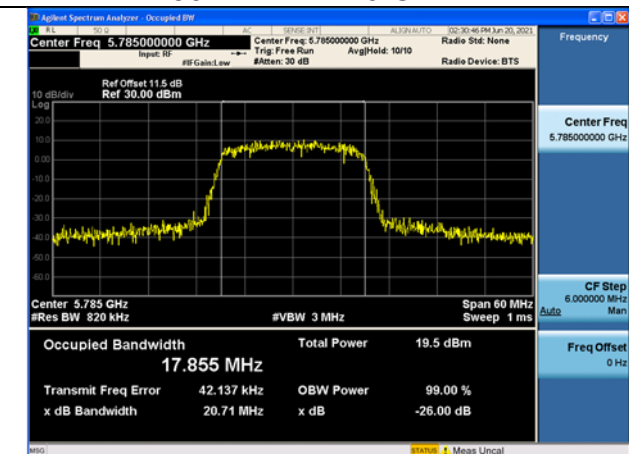
Test Mode:802. 11n HT20 Chain0



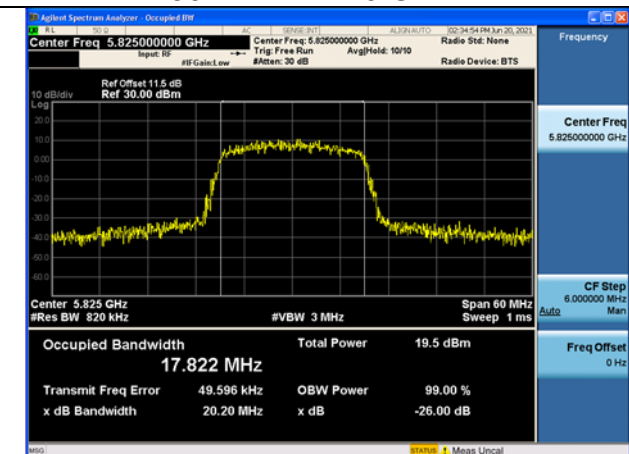
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



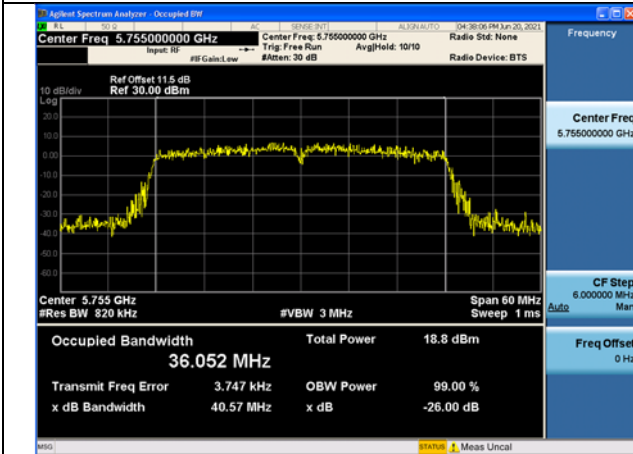
Test Mode:802. 11n HT20 Chain1



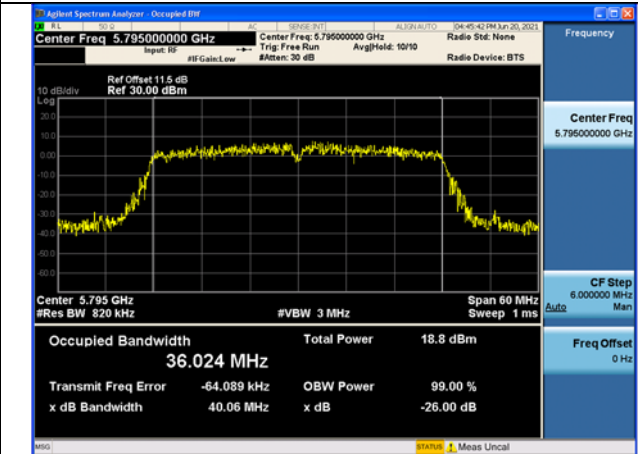
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5755	Chain0	40.57
	Chain1	40.76
5795	Chain0	40.06
	Chain1	39.79

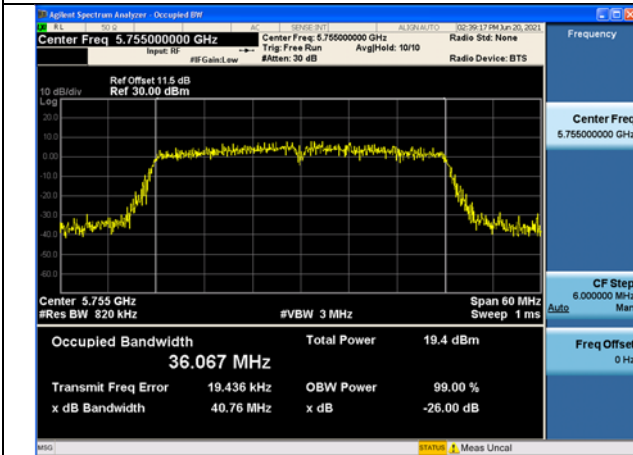
Test Mode:802. 11n HT40 Chain0



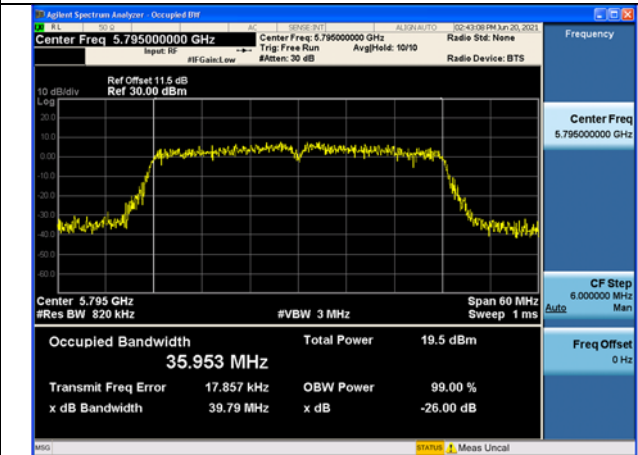
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1



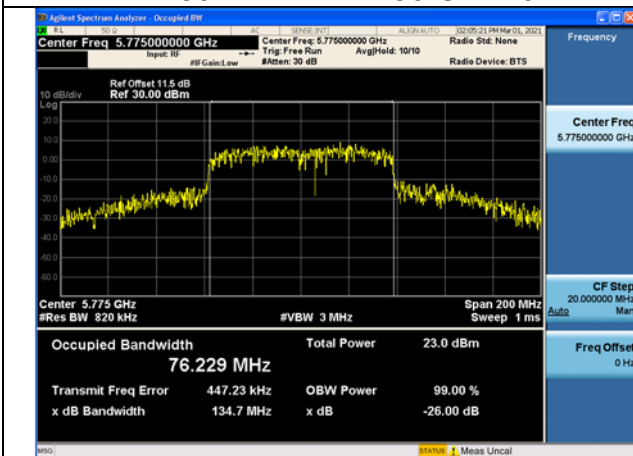
Test Mode:802. 11n HT40 Chain1



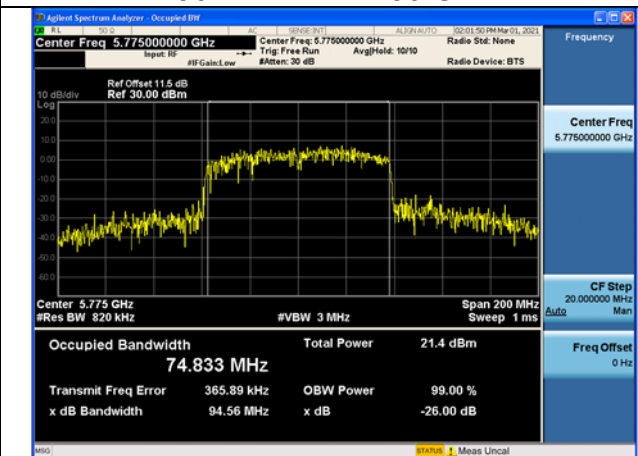
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5775	Chain0	134.7
	Chain1	94.56

Test Mode:802. 11ac VHT80 Chain0



Test Mode:802. 11ac VHT80 Chain1



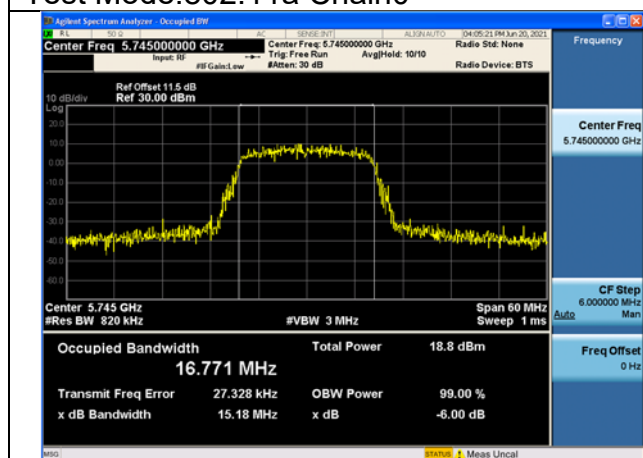
Occupied Bandwidth

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

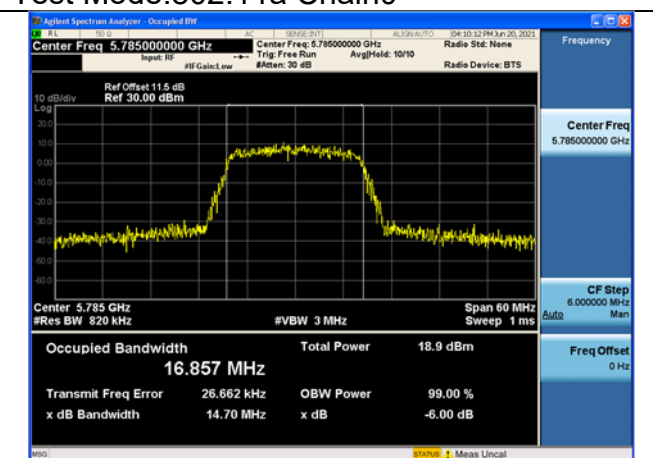
Test Mode:802.11a

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain0	16.771
	Chain1	16.932
5785	Chain0	16.857
	Chain1	16.613
5825	Chain0	16.779
	Chain1	16.805

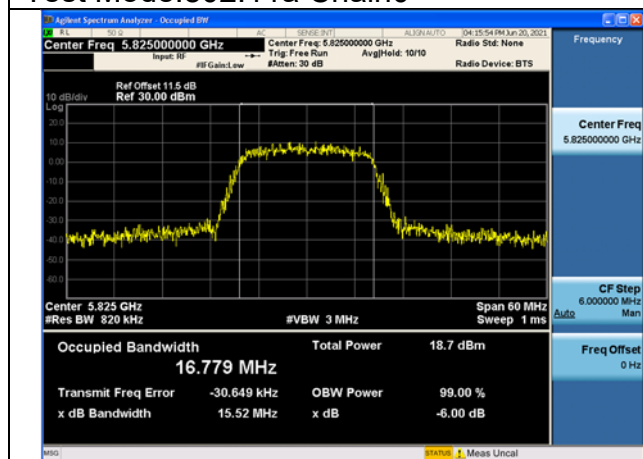
Test Mode:802.11a Chain0



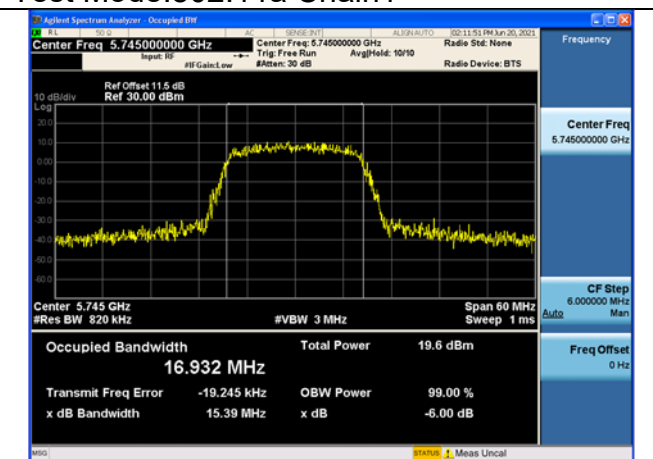
Test Mode:802.11a Chain0



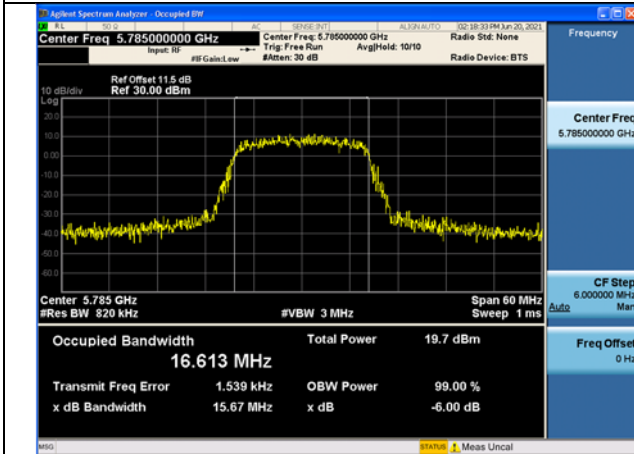
Test Mode:802.11a Chain0



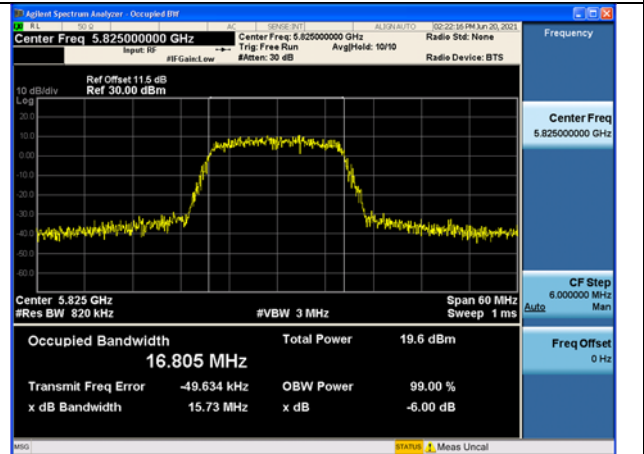
Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



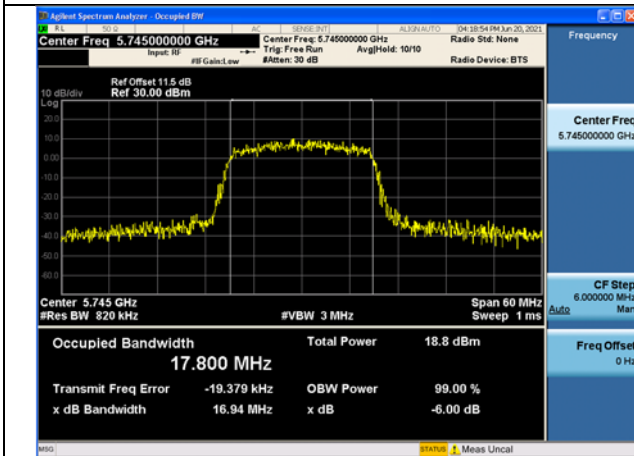
Test Mode:802.11a Chain1



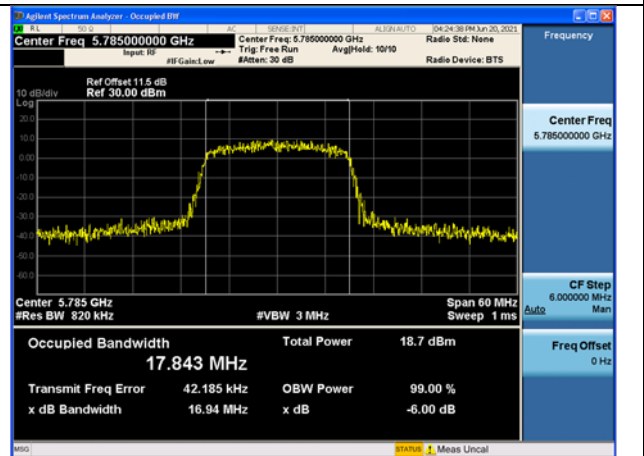
Test Mode:802.11n HT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain0	17.800
	Chain1	17.872
5785	Chain0	17.843
	Chain1	17.839
5825	Chain0	17.851
	Chain1	17.736

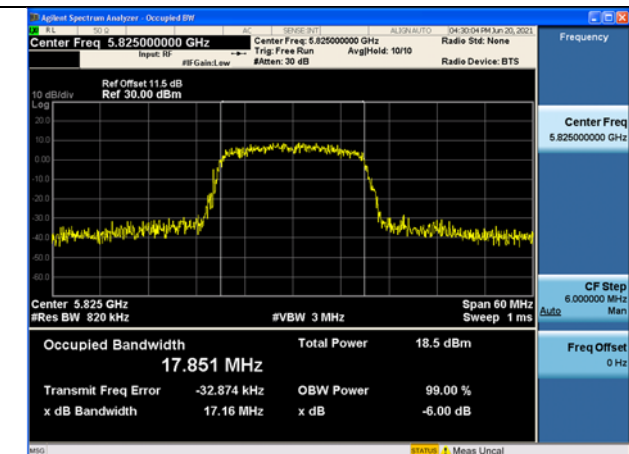
Test Mode:802.11n HT20 Chain0



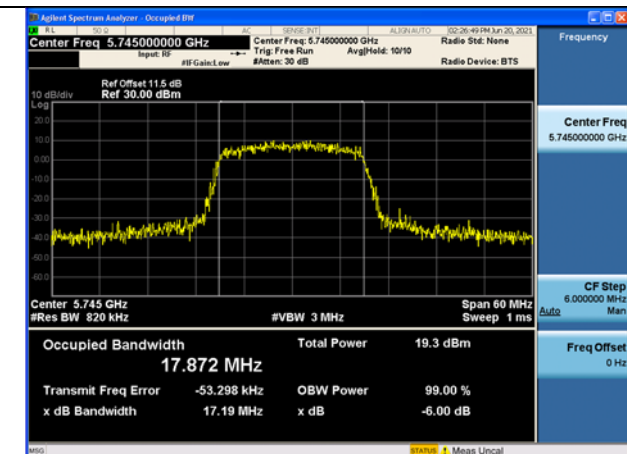
Test Mode:802.11n HT20 Chain0



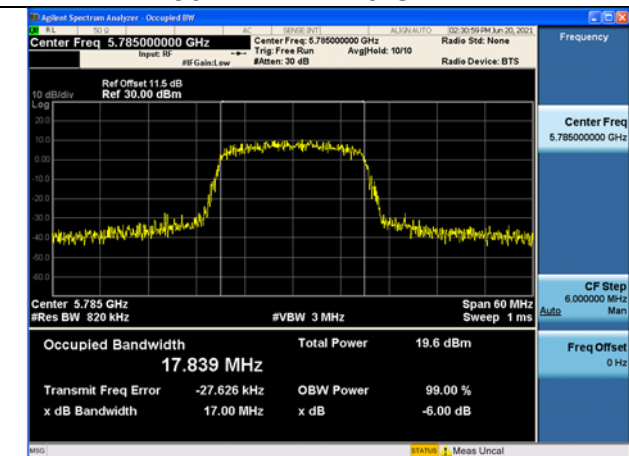
Test Mode:802. 11n HT20 Chain0



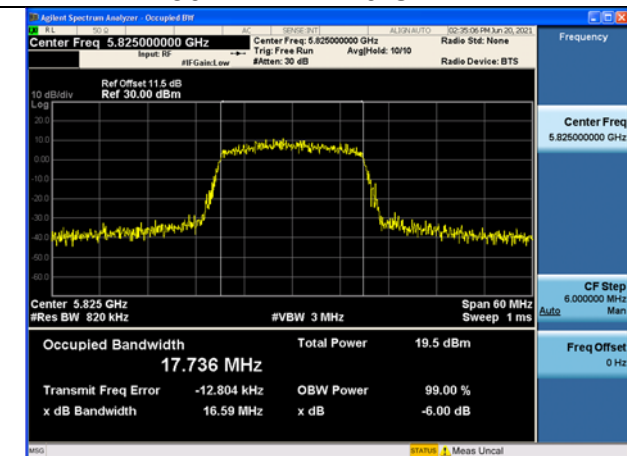
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



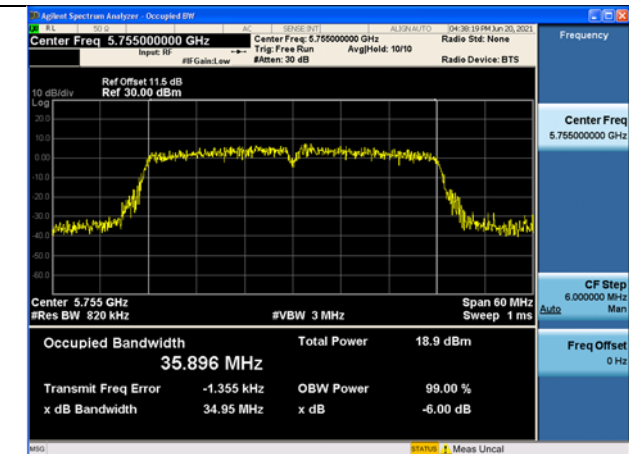
Test Mode:802. 11n HT20 Chain1



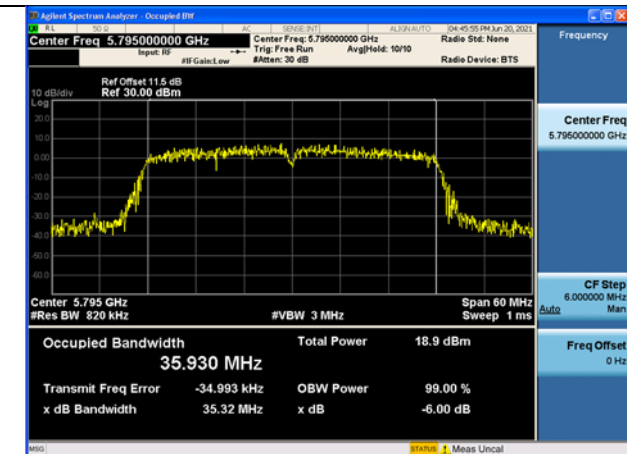
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5755	Chain0	35.896
	Chain1	36.014
5795	Chain0	35.930
	Chain1	36.049

Test Mode:802. 11n HT40 Chain0

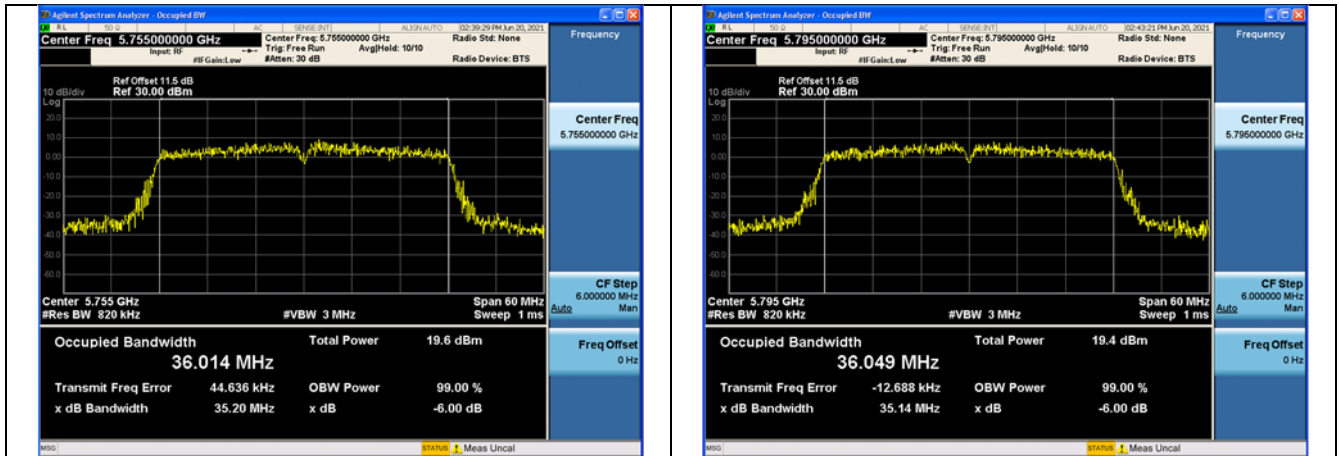


Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1

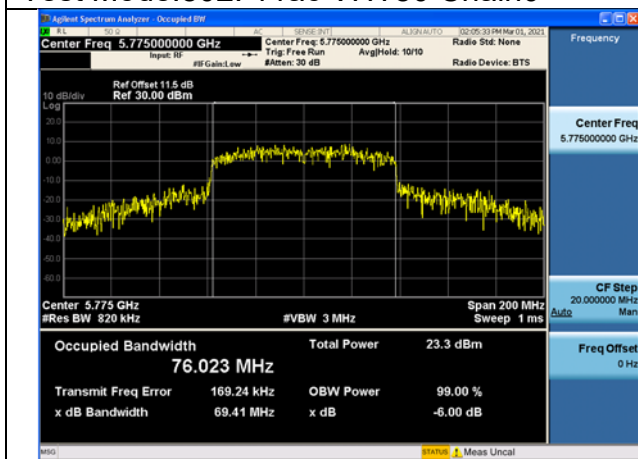
Test Mode:802. 11n HT40 Chain1



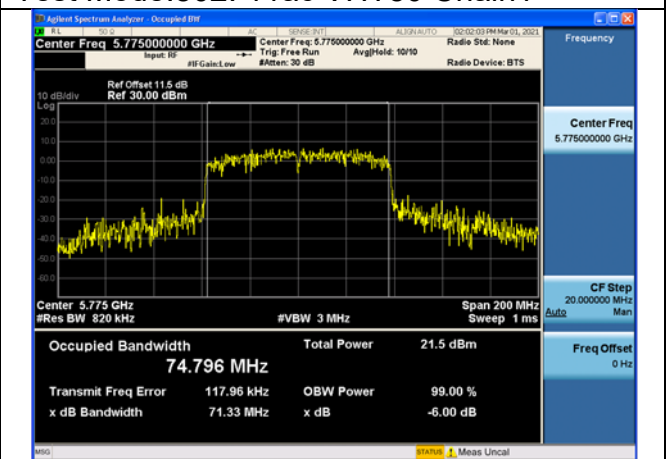
Test Mode:802. 11ac VHT80

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



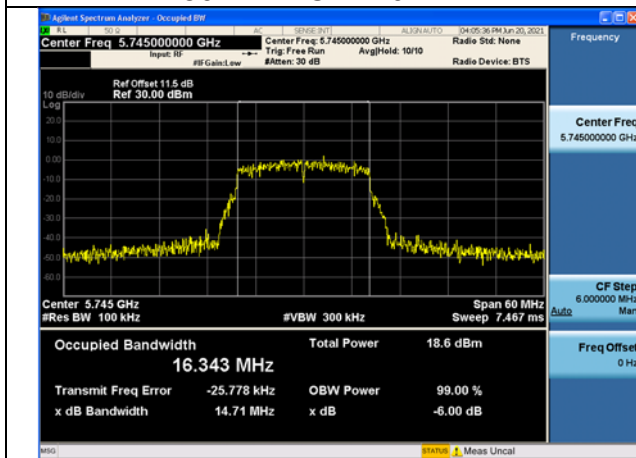
6dB Bandwidth

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

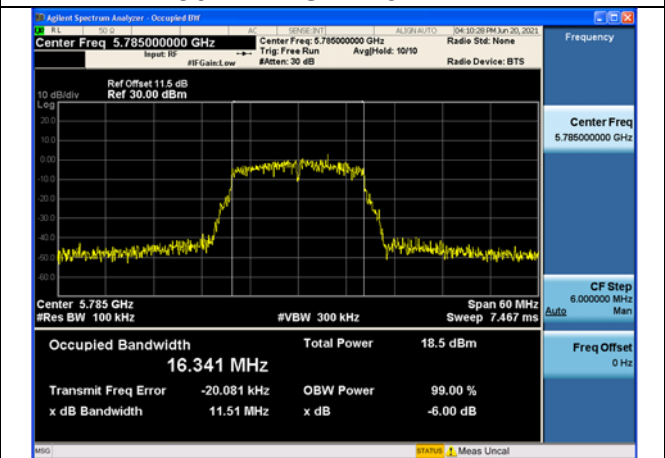
Test Mode:802.11a

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5745	Chain0	14.71
	Chain1	16.31
5785	Chain0	11.51
	Chain1	15.99
5825	Chain0	15.88
	Chain1	15.96

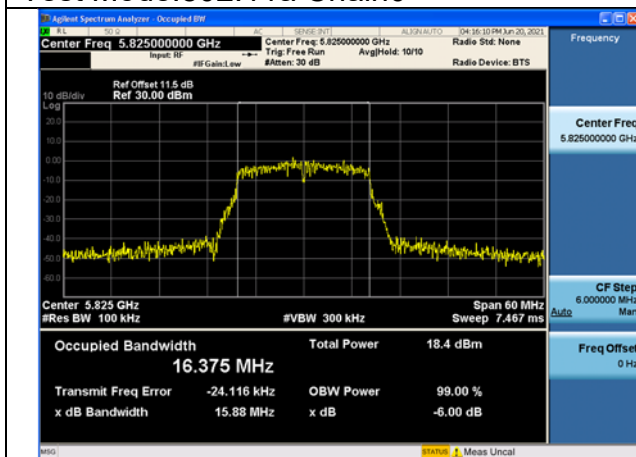
Test Mode:802.11a Chain0



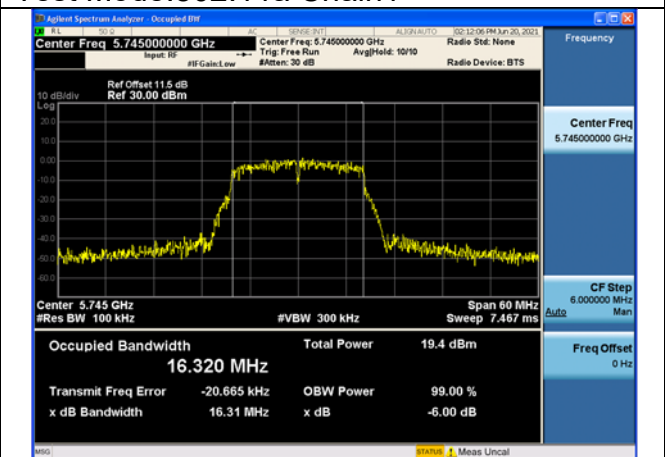
Test Mode:802.11a Chain0



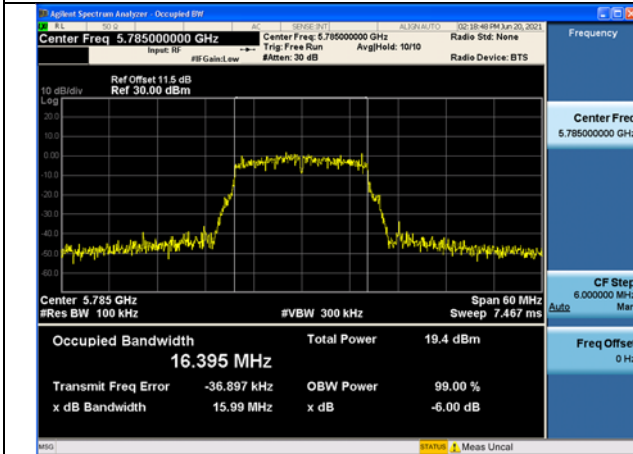
Test Mode:802.11a Chain0



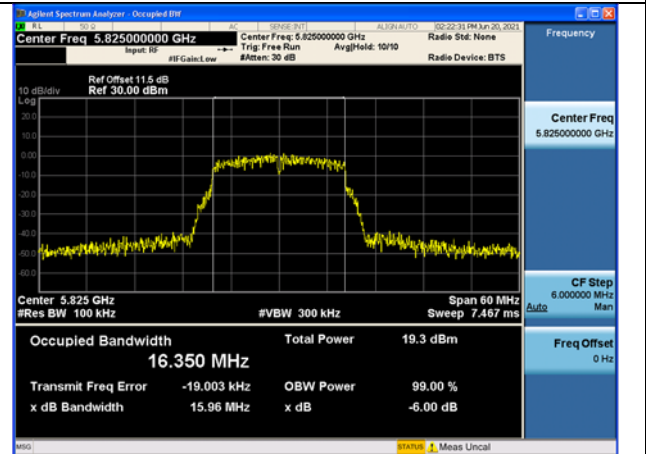
Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



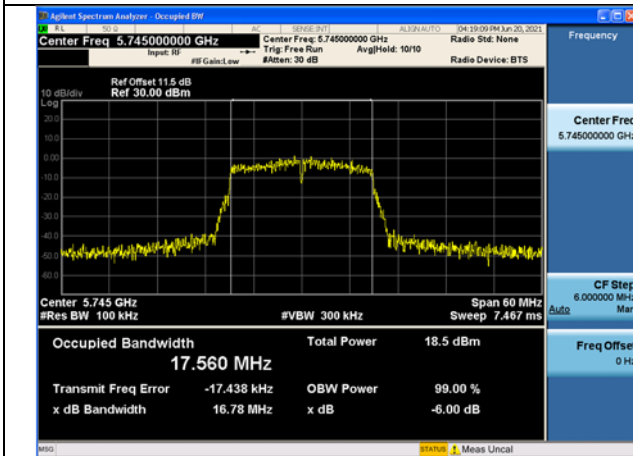
Test Mode:802.11a Chain1



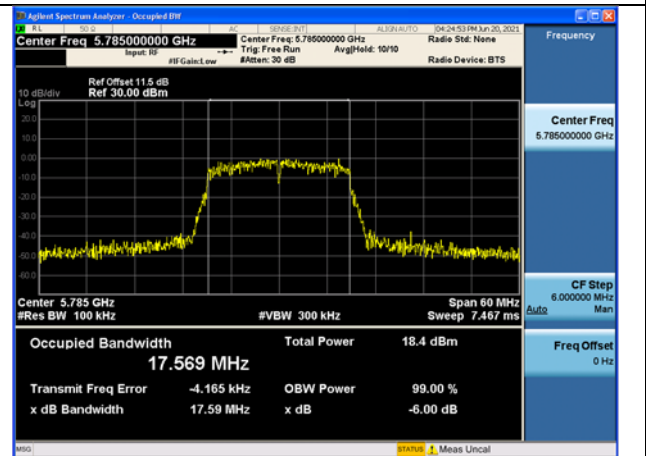
Test Mode:802.11n HT20

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5745	Chain0	16.78
	Chain1	11.65
5785	Chain0	17.59
	Chain1	10.53
5825	Chain0	12.77
	Chain1	14.81

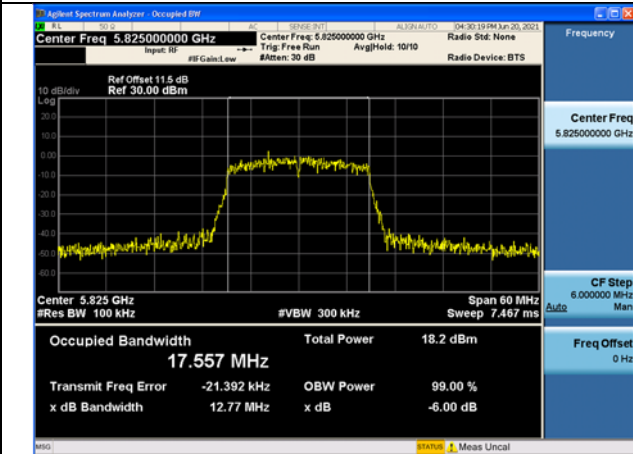
Test Mode:802.11n HT20 Chain0



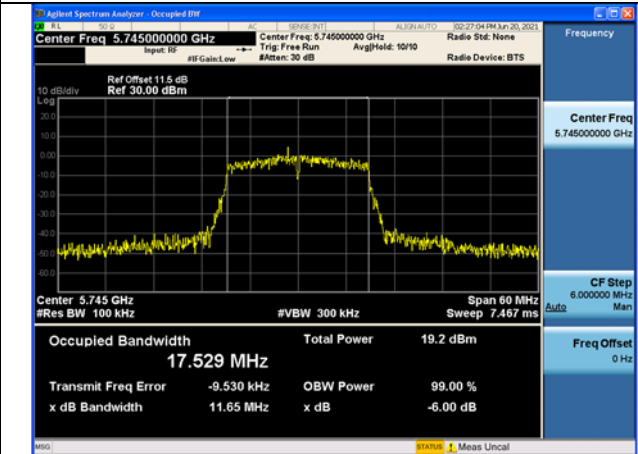
Test Mode:802.11n HT20 Chain0



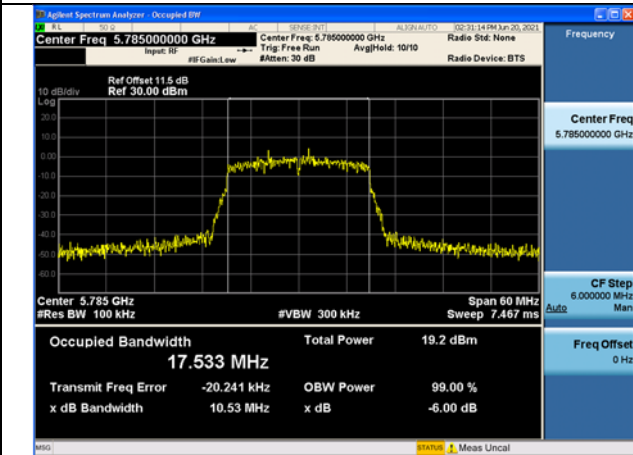
Test Mode:802. 11n HT20 Chain0



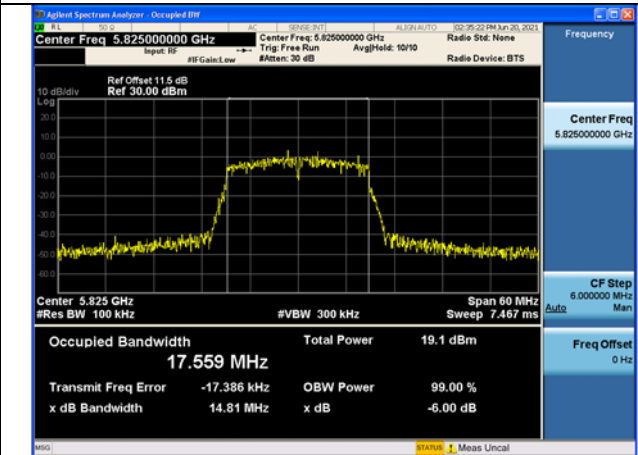
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



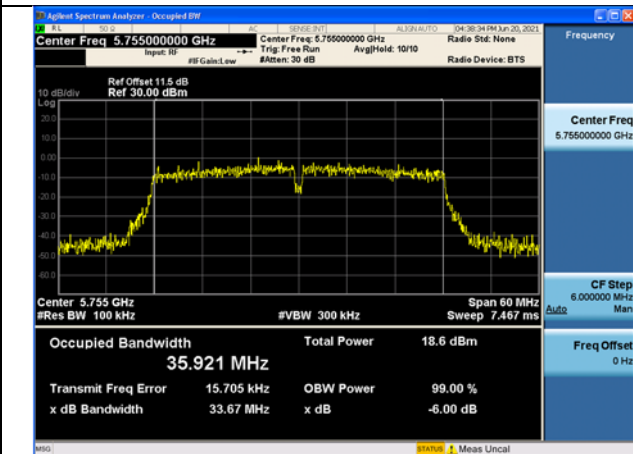
Test Mode:802. 11n HT20 Chain1



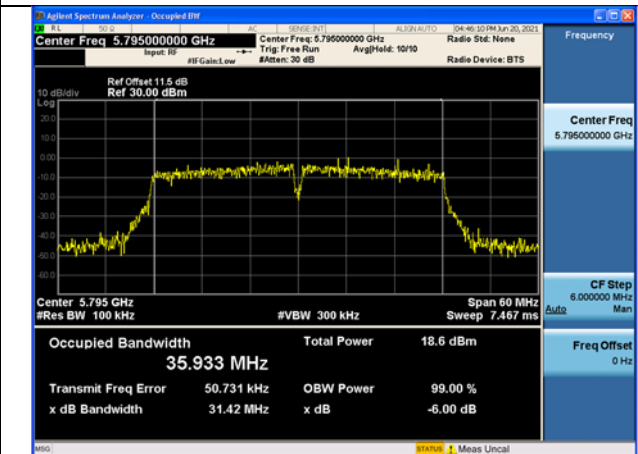
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5755	Chain0	33.67
	Chain1	33.85
5795	Chain0	31.42
	Chain1	32.52

Test Mode:802. 11n HT40 Chain0

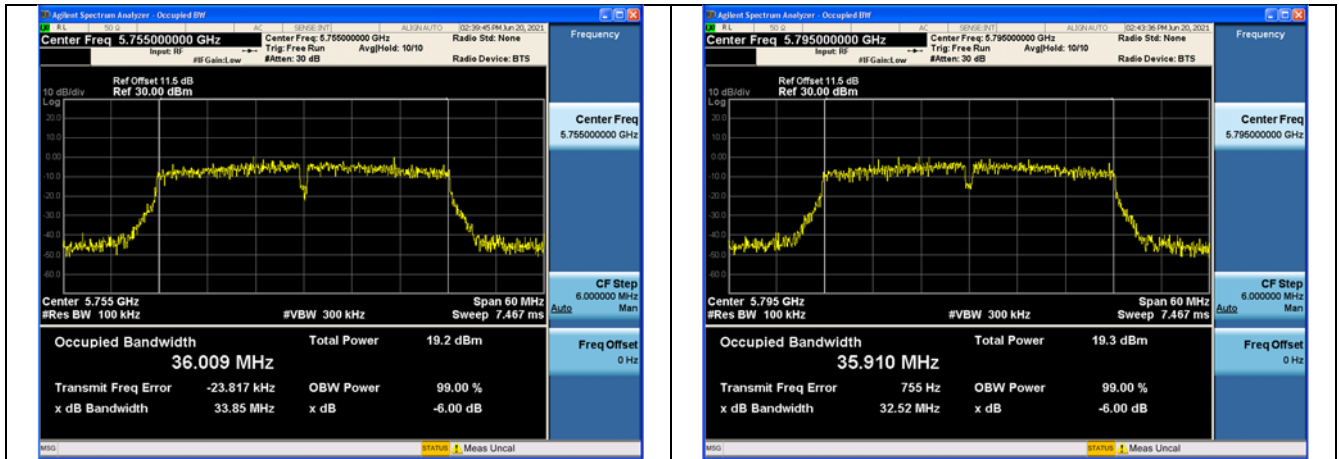


Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1

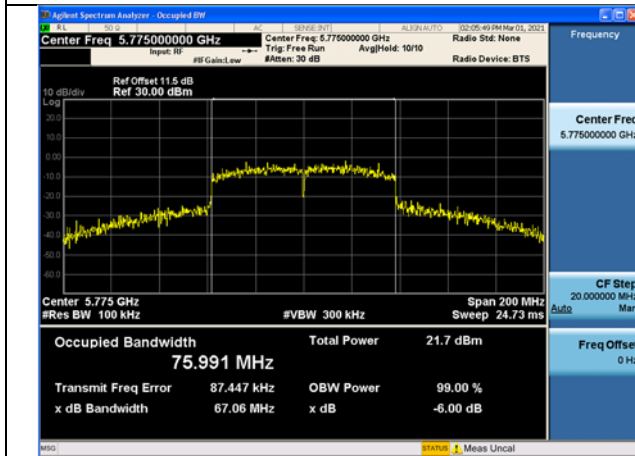
Test Mode:802. 11n HT40 Chain1



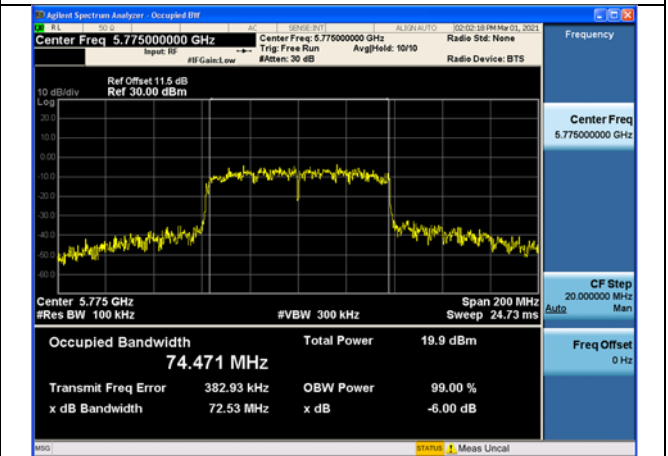
Test Mode:802.11ac VHT80

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



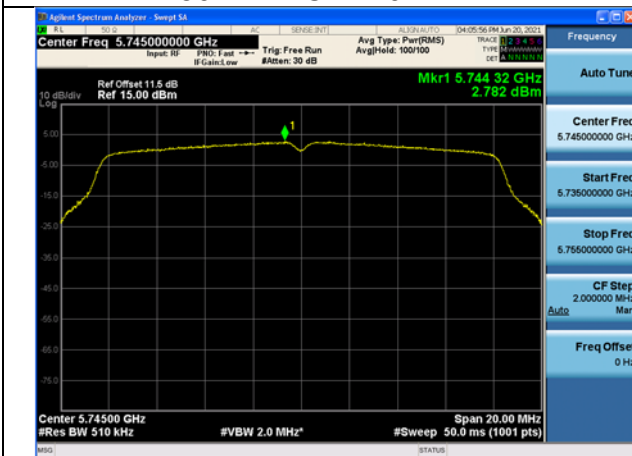
Transmitter Power Spectral Density

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

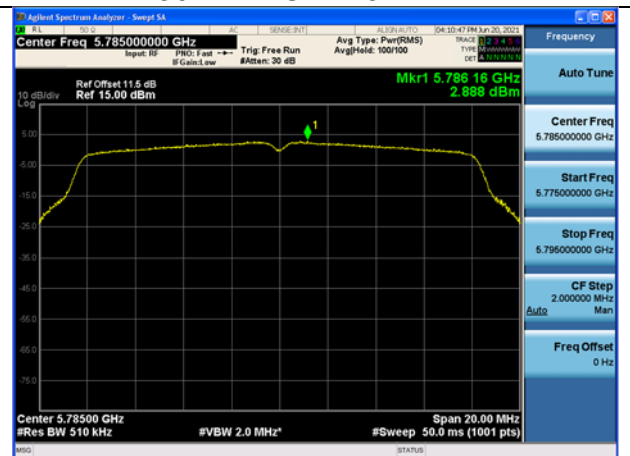
Test Mode:802.11a

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5745	0.17	Chain0	2.952
		Chain1	3.634
5785		Chain0	3.058
		Chain1	3.740
5825		Chain0	2.839
		Chain1	3.641

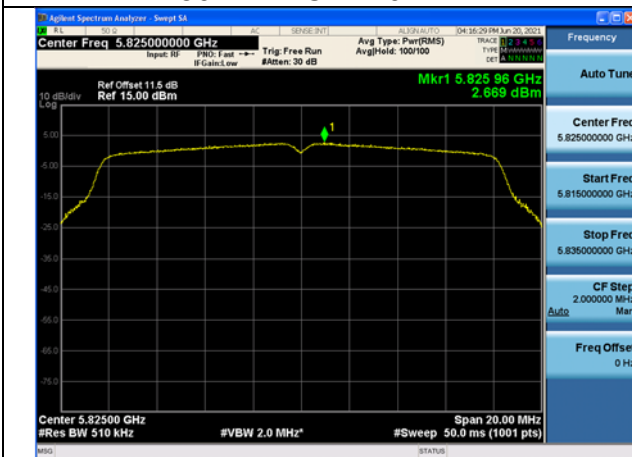
Test Mode:802.11a Chain0



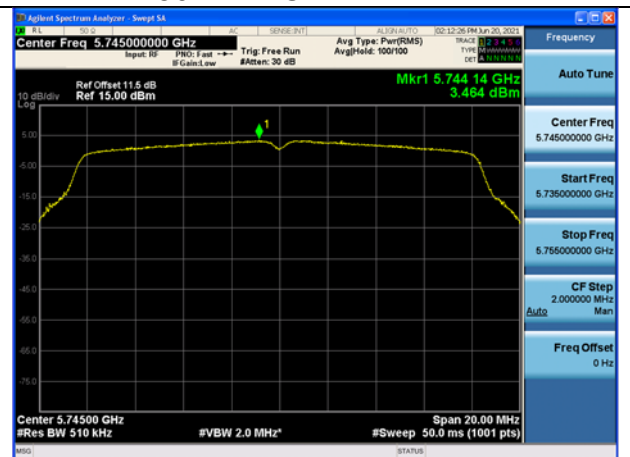
Test Mode:802.11a Chain0



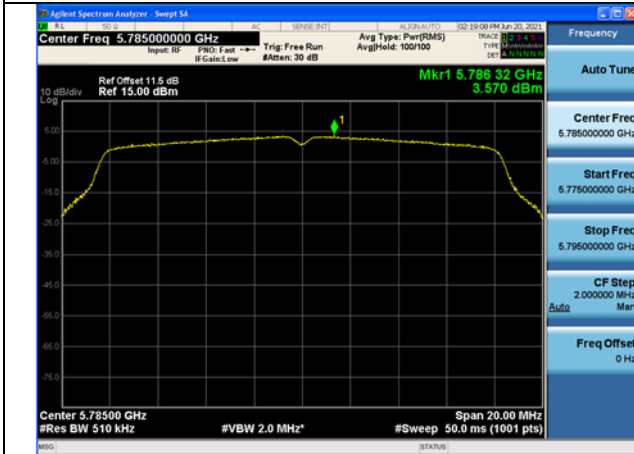
Test Mode:802.11a Chain0



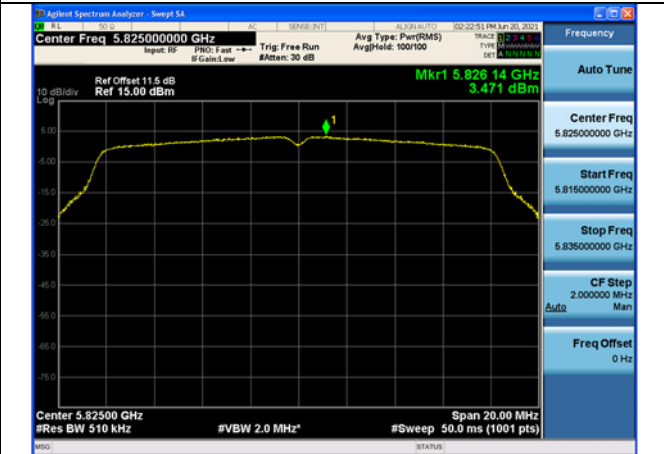
Test Mode:802.11a Chain1



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	0.18	Chain0	2.975
		Chain1	3.715
		Chain0+Chain1	6.371
5785		Chain0	3.020
		Chain1	3.451
		Chain0+Chain1	6.251
5825		Chain0	2.729
		Chain1	3.646
		Chain0+Chain1	6.222

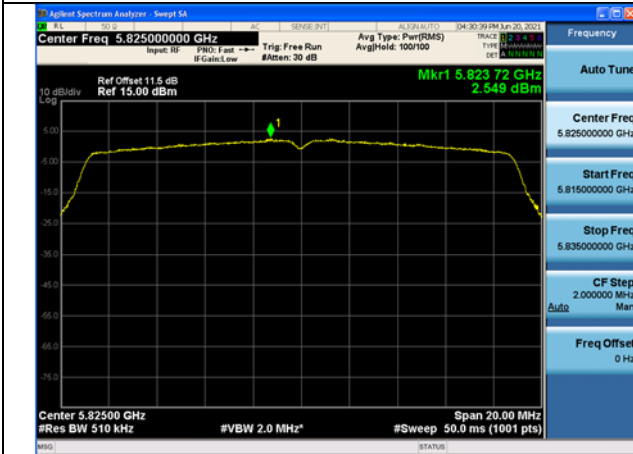
Test Mode:802.11n HT20 Chain0



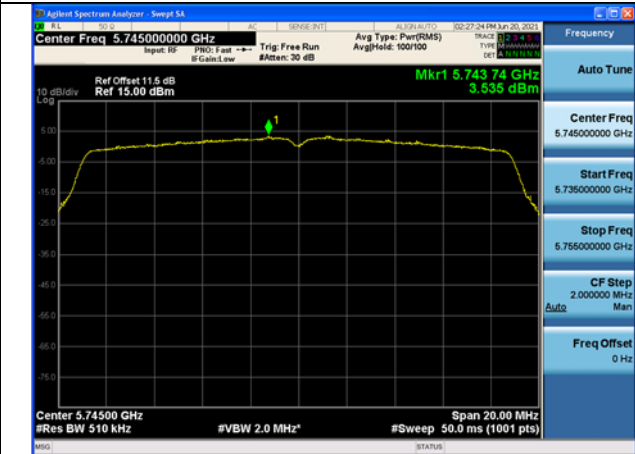
Test Mode:802.11n HT20 Chain0



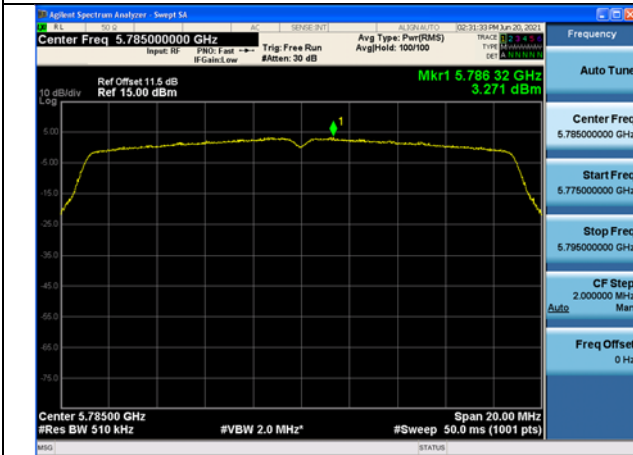
Test Mode:802. 11n HT20 Chain0



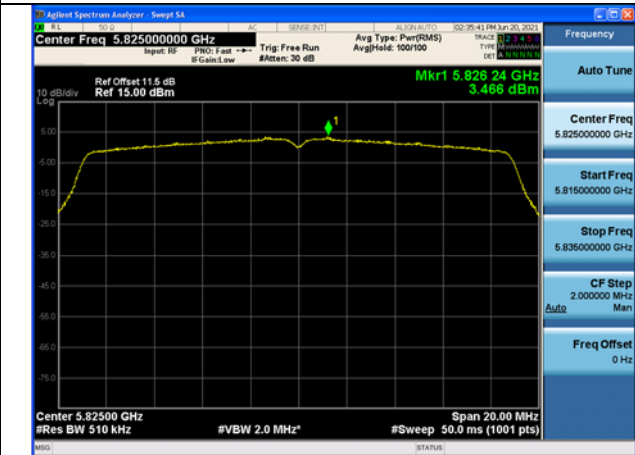
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



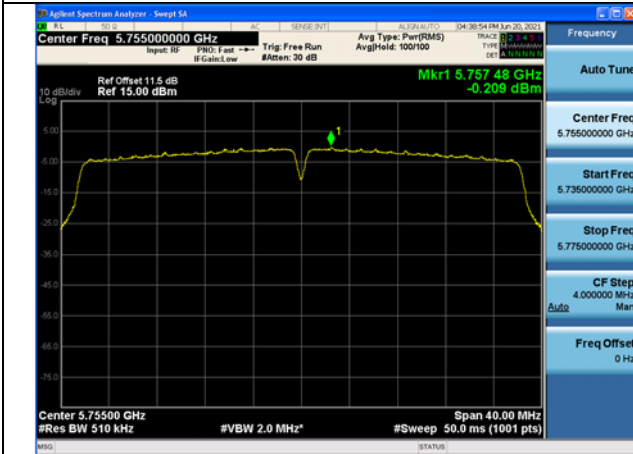
Test Mode:802. 11n HT20 Chain1



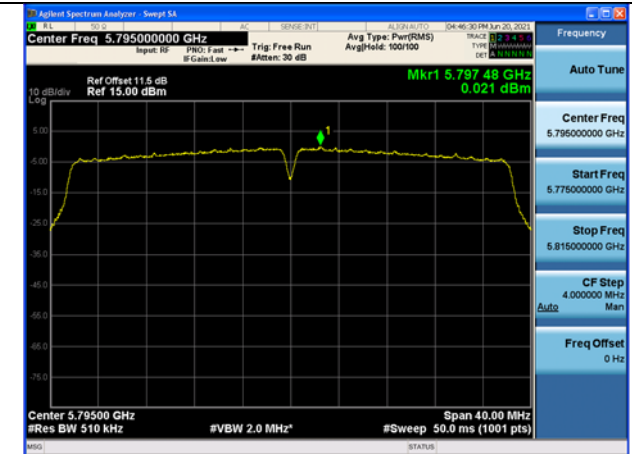
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5755	0.37	Chain0	0.161
		Chain1	0.711
		Chain0+Chain1	3.455
5795		Chain0	0.391
		Chain1	1.004
		Chain0+Chain1	3.719

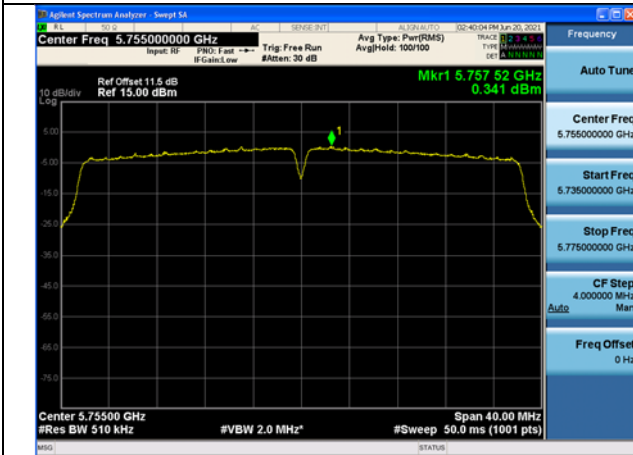
Test Mode:802. 11n HT40 Chain0



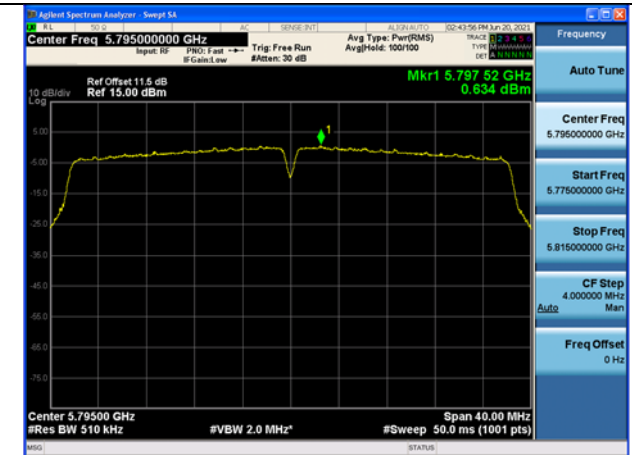
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1



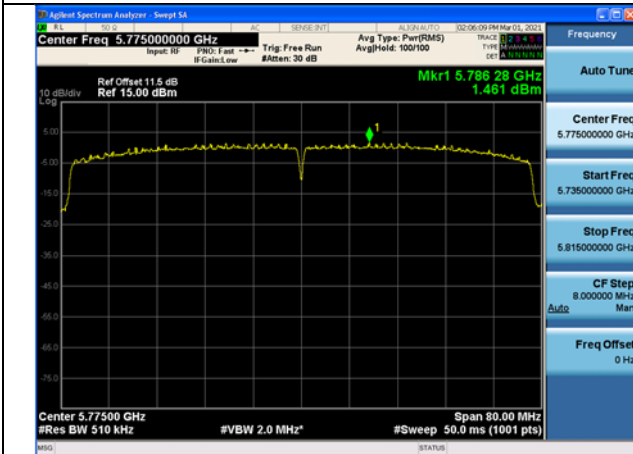
Test Mode:802. 11n HT40 Chain1



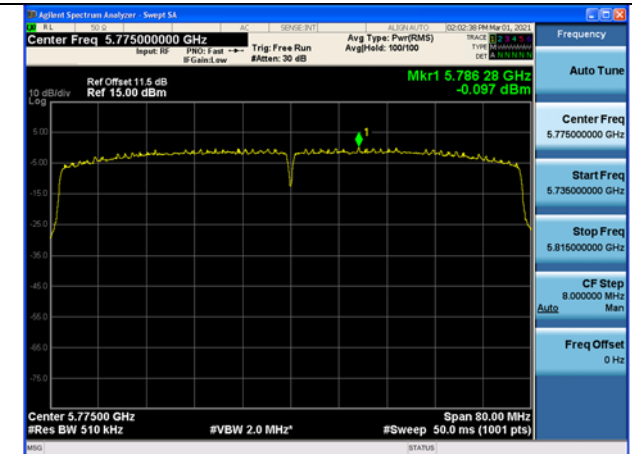
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5775	0.74	Chain0	-1.169
		Chain1	-2.727
		Chain0+Chain1	1.132

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	5745.068276	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
		Chain1	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