APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Output Power
UNII-2A

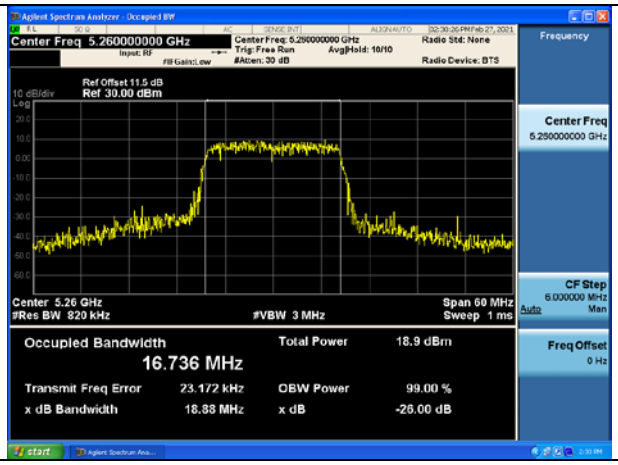
Mode	Freq (MHz)	Chain	Conducted average power output(dBm)
802.11a	5260	Chain0	15.10
		Chain1	15.90
	5280	Chain0	15.00
		Chain1	15.50
	5320	Chain0	14.60
		Chain1	15.10
802.11n20M	5260	Chain0	13.90
		Chain1	14.50
		Chain0+Chain1	17.22
	5280	Chain0	13.70
		Chain1	14.60
		Chain0+Chain1	17.18
	5320	Chain0	13.60
		Chain1	14.10
		Chain0+Chain1	17.87
802.11n40M	5270	Chain0	13.90
		Chain1	14.30
		Chain0+Chain1	17.11
	5310	Chain0	13.50
		Chain1	13.90
		Chain0+Chain1	16.71
802.11ac20M	5260	Chain0	13.90
		Chain1	14.40
		Chain0+Chain1	17.17
	5280	Chain0	13.90
		Chain1	14.20
		Chain0+Chain1	17.06
	5320	Chain0	13.80
		Chain1	14.00
		Chain0+Chain1	16.91
802.11ac40M	5270	Chain0	13.70
		Chain1	14.30
		Chain0+Chain1	17.02
	5310	Chain0	13.50
		Chain1	13.90
		Chain0+Chain1	16.71
802.11ac80M	5290	Chain0	13.50
		Chain1	14.00
		Chain0+Chain1	16.77

Emission Bandwidth

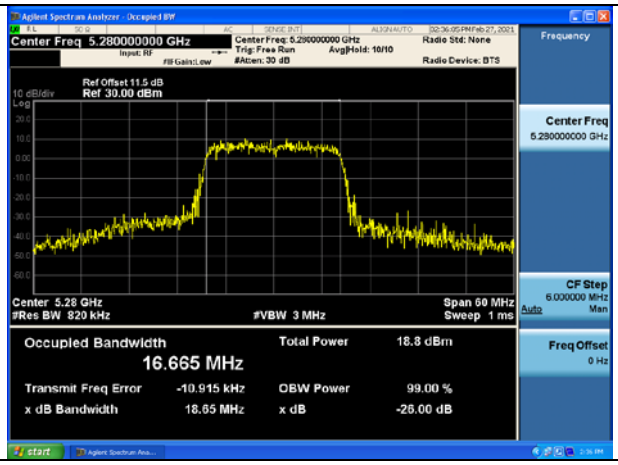
Offset 11.5dB =Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1dB
Test Mode:802.11a

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5260	Chain0	18.88
	Chain1	19.21
5280	Chain0	18.65
	Chain1	18.70
5320	Chain0	18.97
	Chain1	18.85

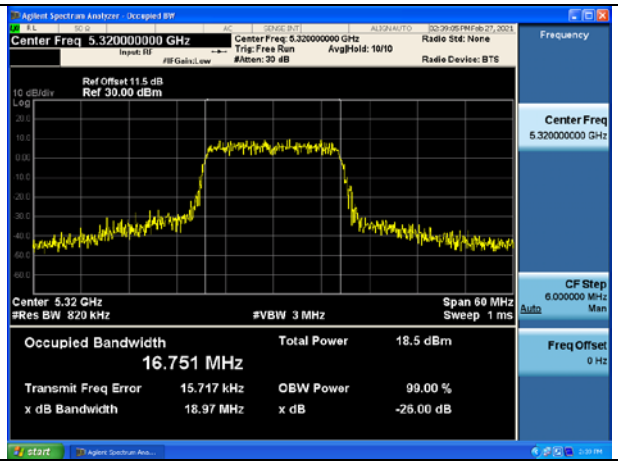
Test Mode:802.11a Chain0



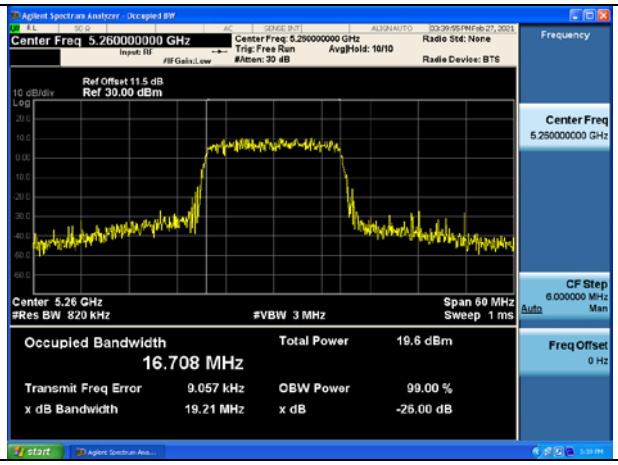
Test Mode:802.11a Chain0



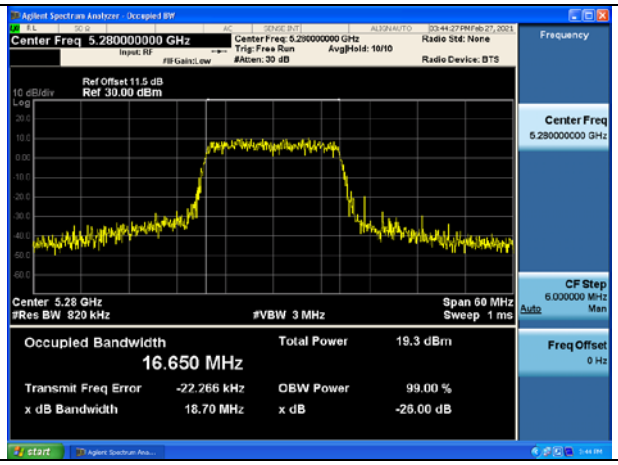
Test Mode:802.11a Chain0



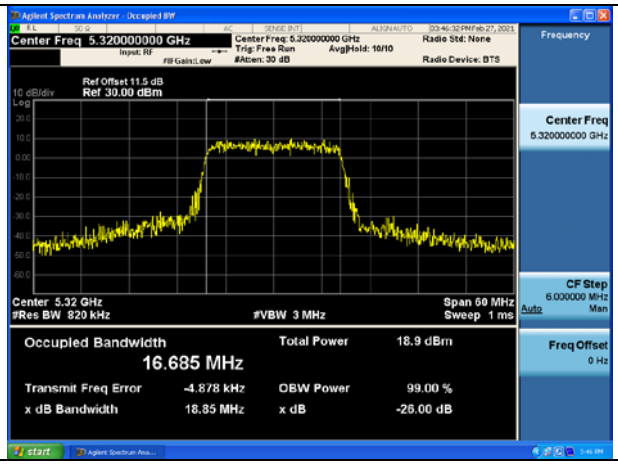
Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



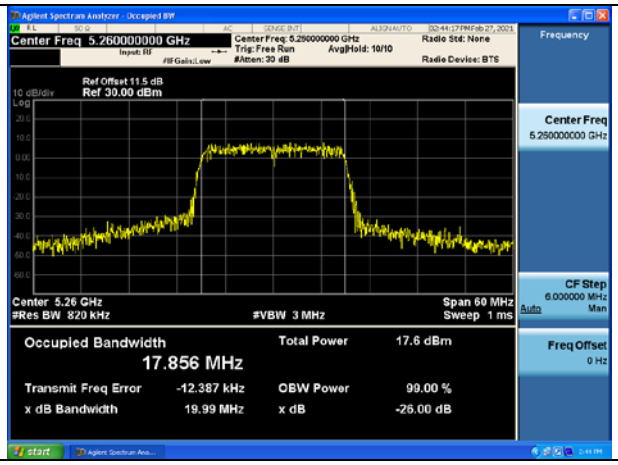
Test Mode:802.11a Chain1



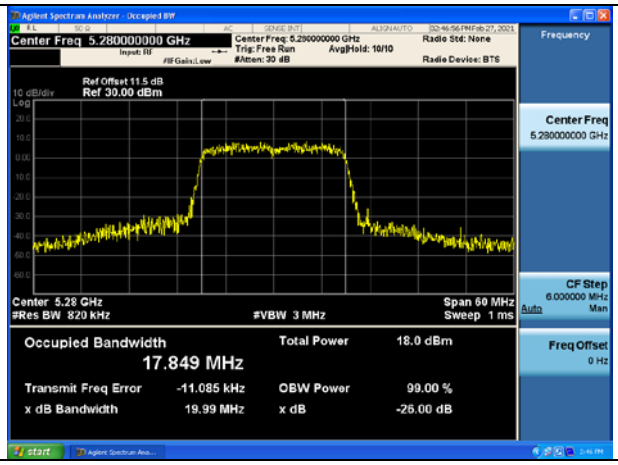
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5260	Chain0	19.99
	Chain1	20.05
5280	Chain0	19.99
	Chain1	19.73
5320	Chain0	19.73
	Chain1	19.60

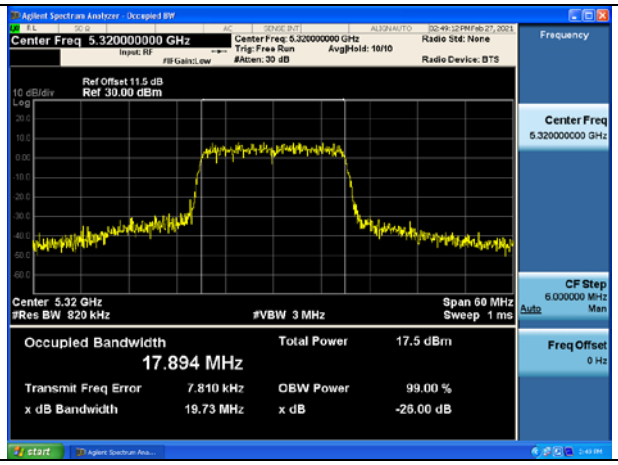
Test Mode:802. 11n HT20 Chain0



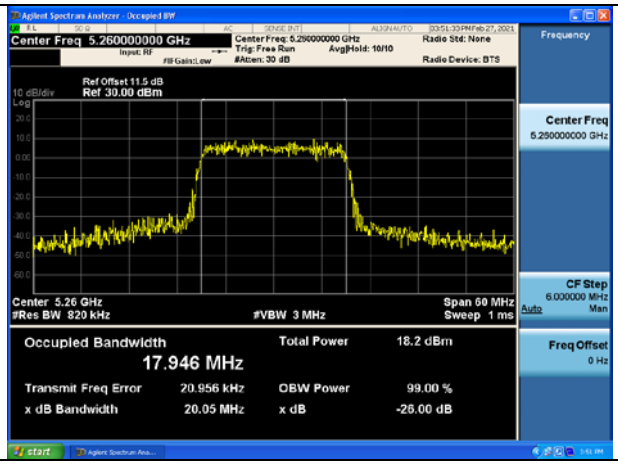
Test Mode:802. 11n HT20 Chain0



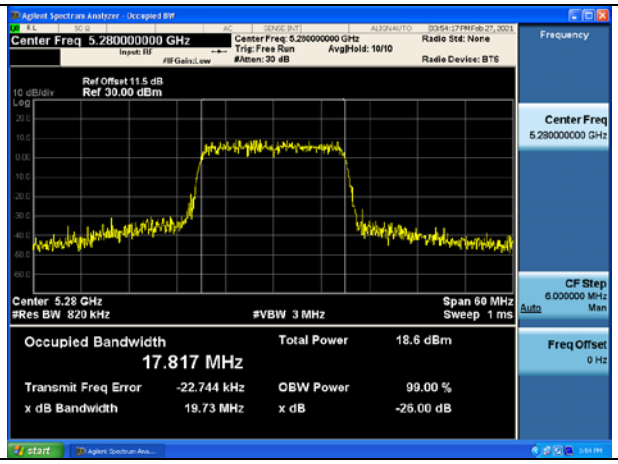
Test Mode:802. 11n HT20 Chain0



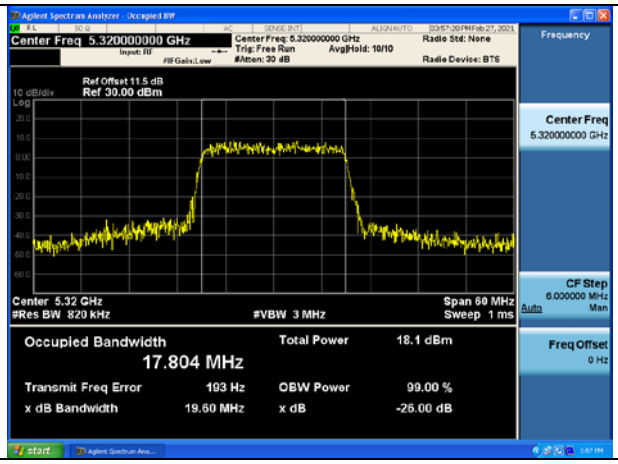
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



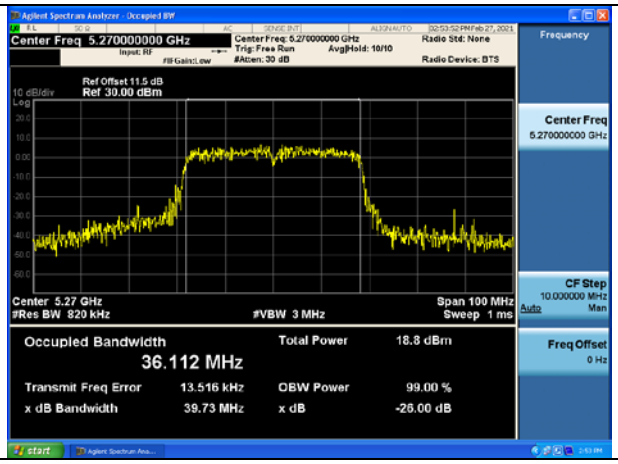
Test Mode:802. 11n HT20 Chain1



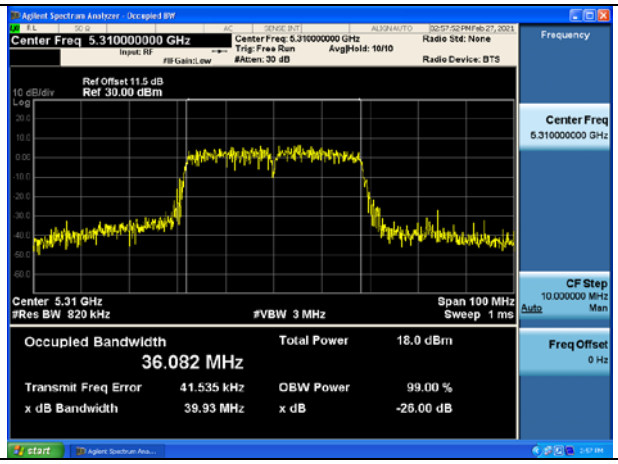
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5270	Chain0	39.73
	Chain1	38.71
5310	Chain0	39.93
	Chain1	39.74

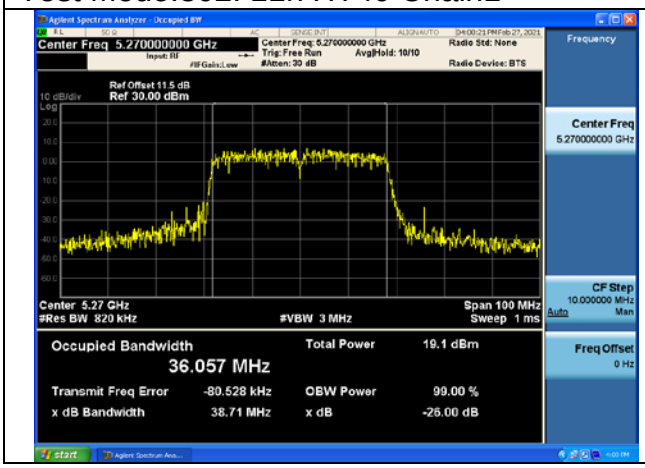
Test Mode:802. 11n HT40 Chain0



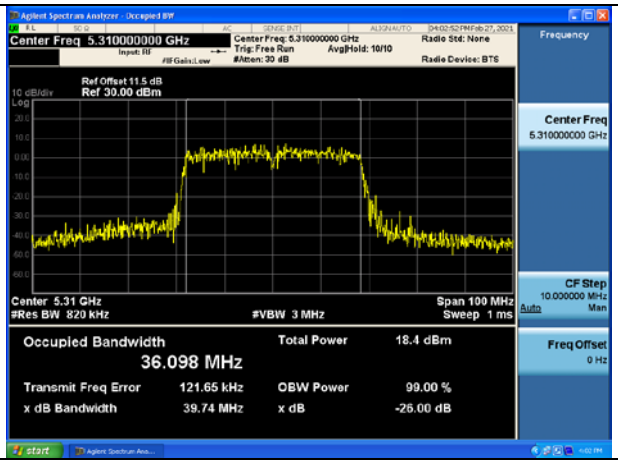
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1



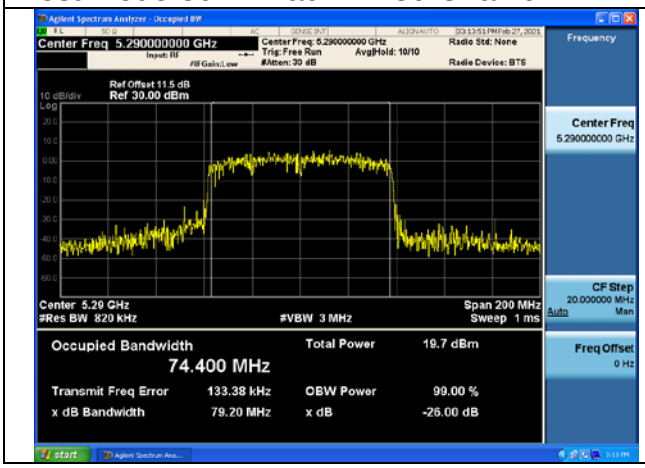
Test Mode:802. 11n HT40 Chain1



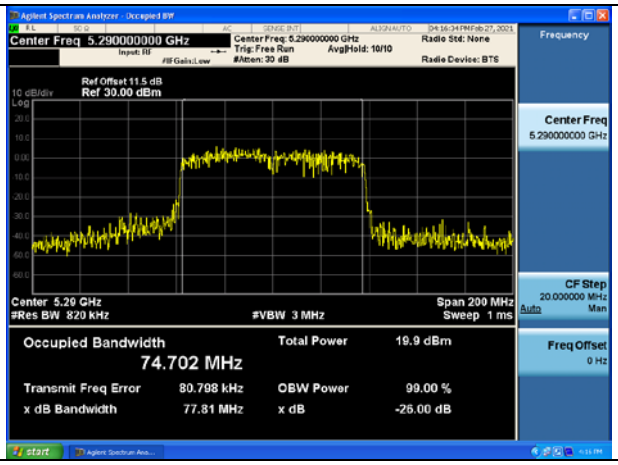
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5290	Chain0	79.20
	Chain1	77.81

Test Mode:802. 11ac VHT80 Chain0



Test Mode:802. 11ac VHT80 Chain1

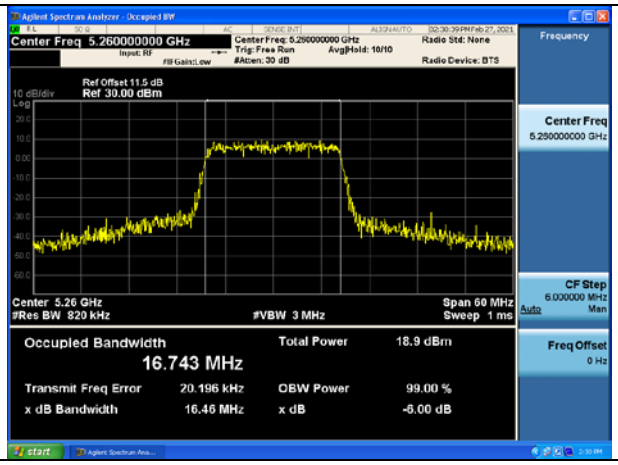


Occupied Bandwidth

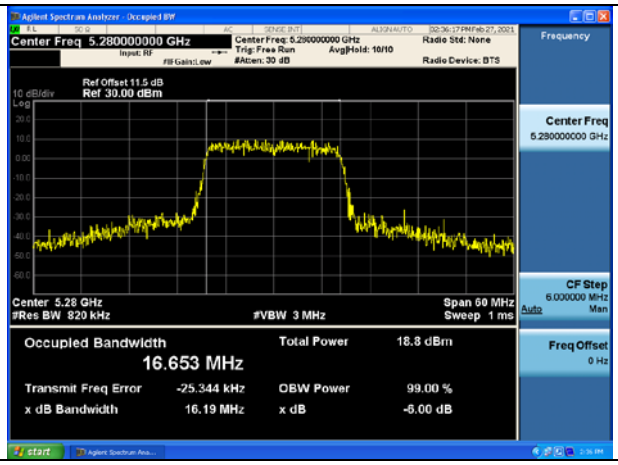
Offset 11.5dB =Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1dB
Test Mode:802.11a

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5260	Chain0	16.743
	Chain1	16.655
5280	Chain0	16.653
	Chain1	16.729
5320	Chain0	16.683
	Chain1	16.637

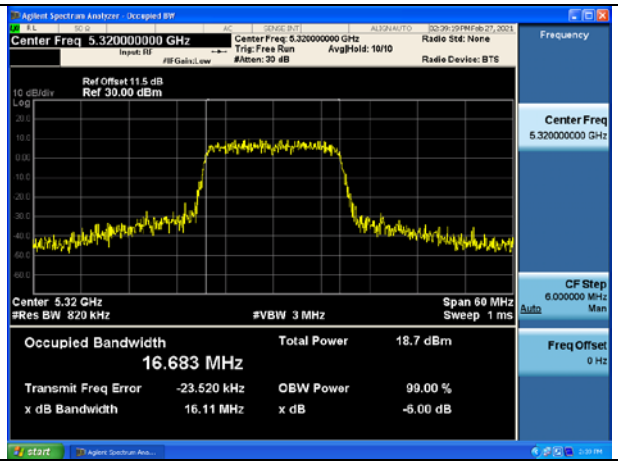
Test Mode:802.11a Chain0



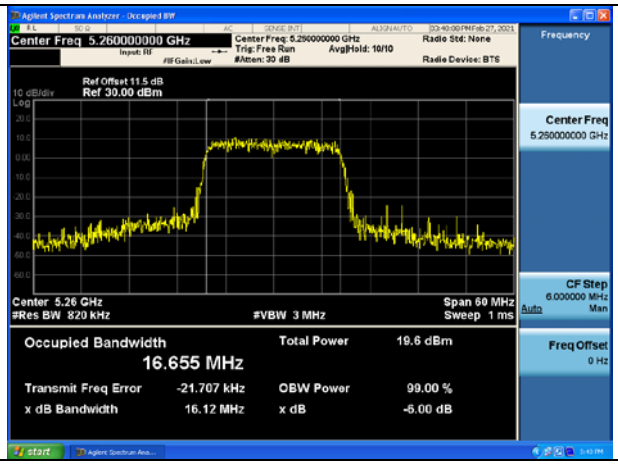
Test Mode:802.11a Chain0



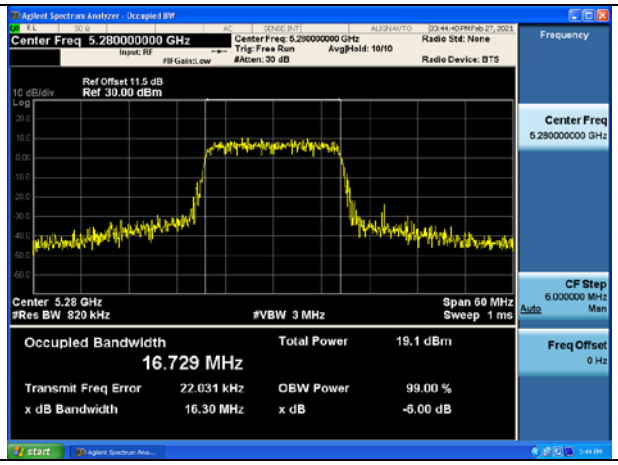
Test Mode:802.11a Chain0



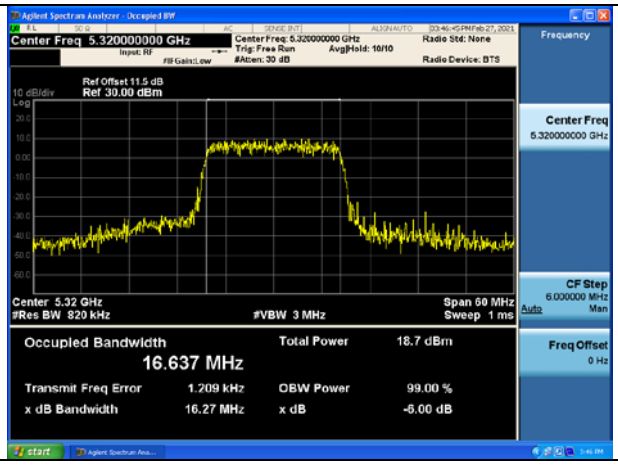
Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



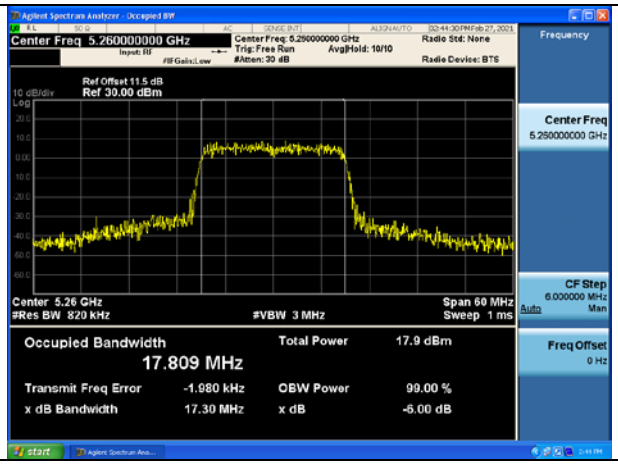
Test Mode:802.11a Chain1



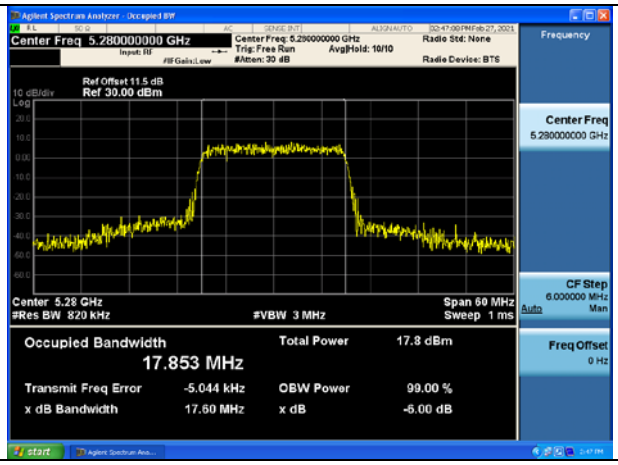
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5260	Chain0	17.809
	Chain1	17.804
5280	Chain0	17.853
	Chain1	17.897
5320	Chain0	17.876
	Chain1	17.839

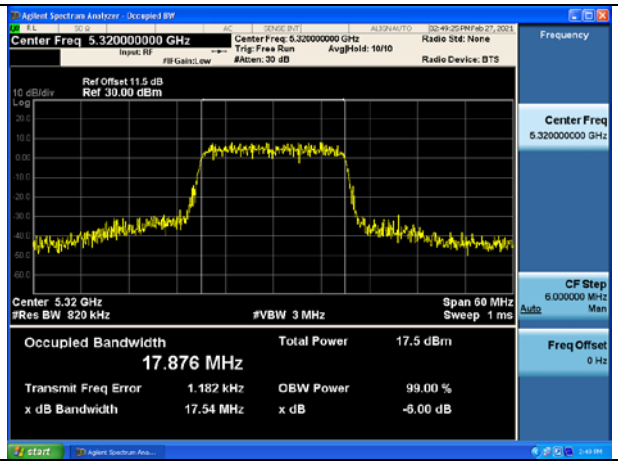
Test Mode:802. 11n HT20 Chain0



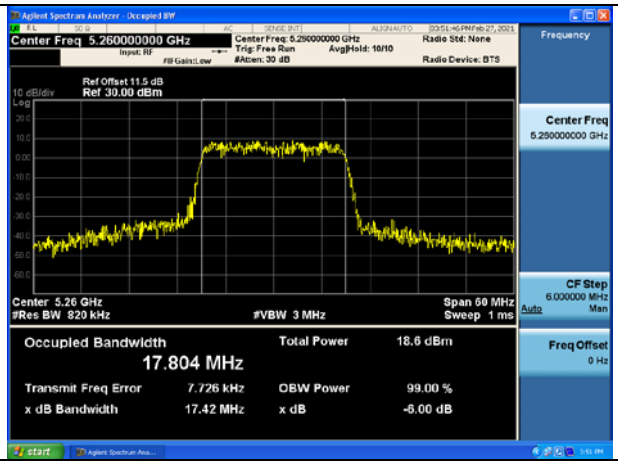
Test Mode:802. 11n HT20 Chain0



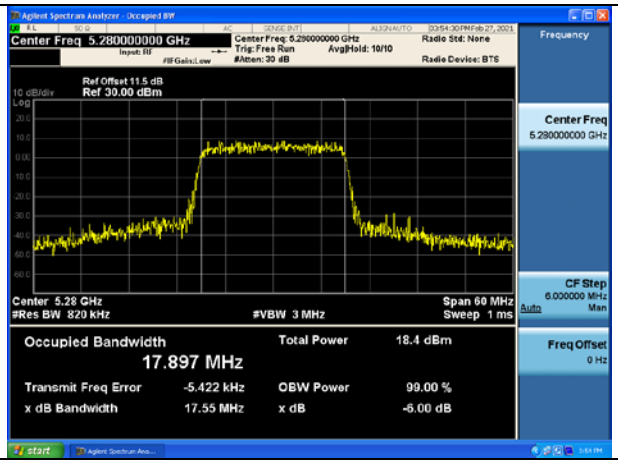
Test Mode:802. 11n HT20 Chain0



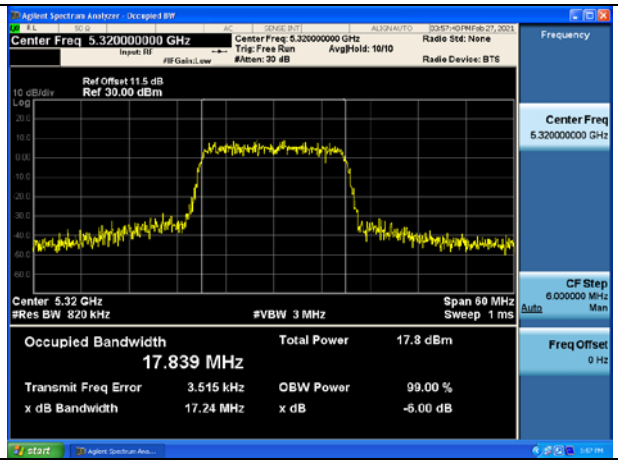
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



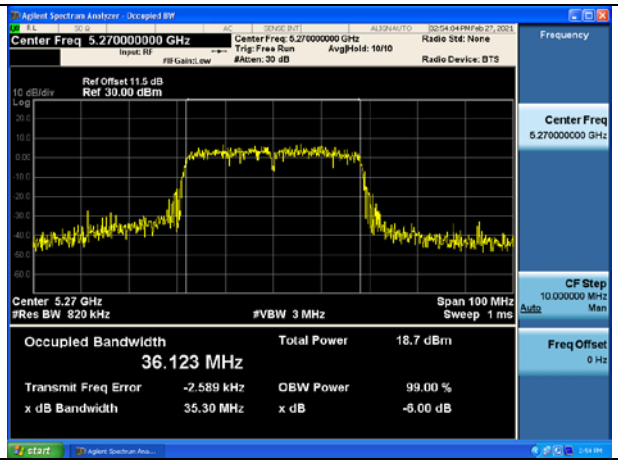
Test Mode:802. 11n HT20 Chain1



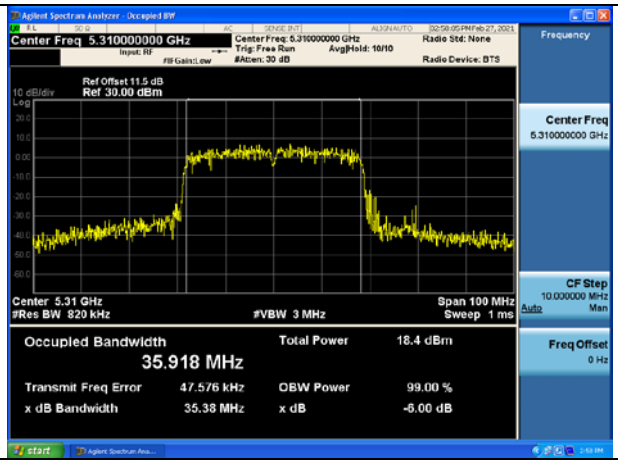
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5270	Chain0	36.123
	Chain1	36.121
5310	Chain0	35.918
	Chain1	36.078

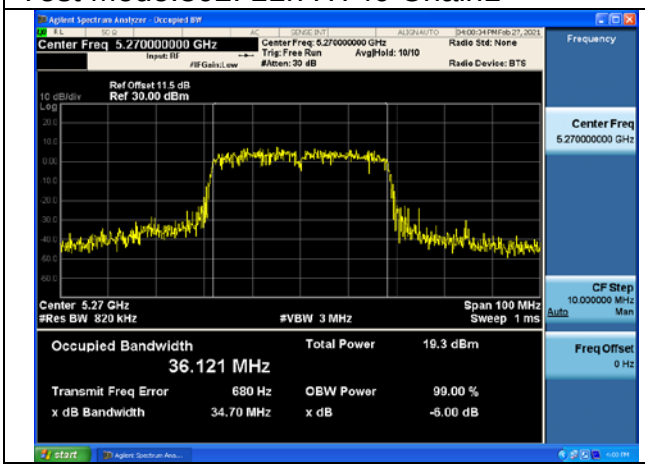
Test Mode:802. 11n HT40 Chain0



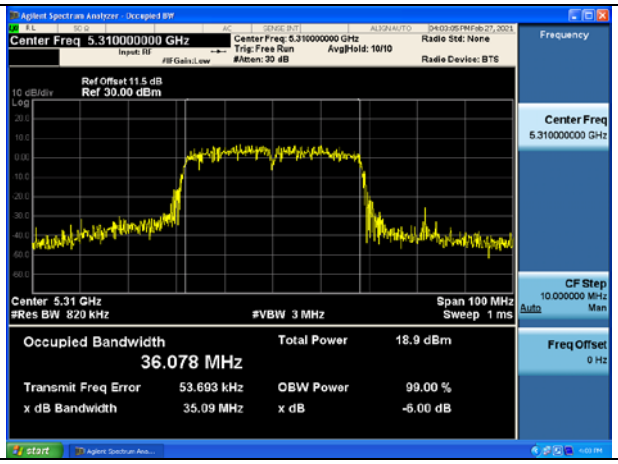
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1



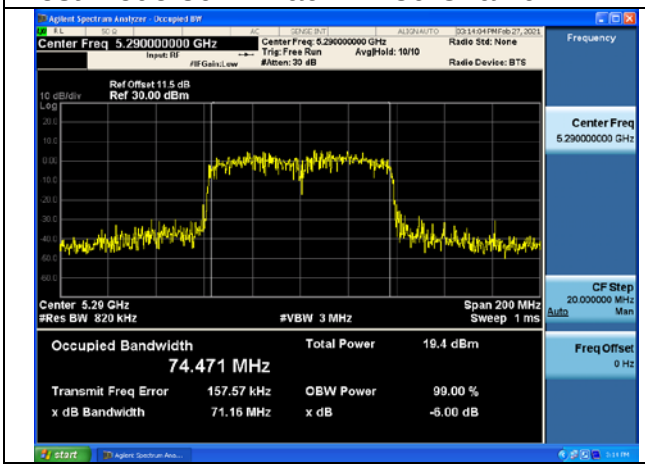
Test Mode:802. 11n HT40 Chain1



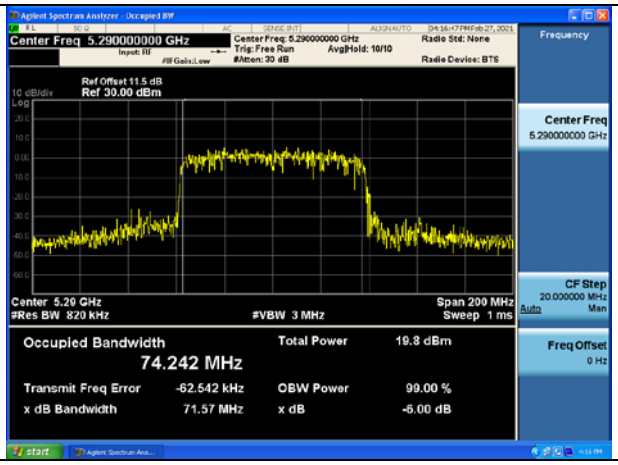
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5290	Chain0	74.471
	Chain1	74.242

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

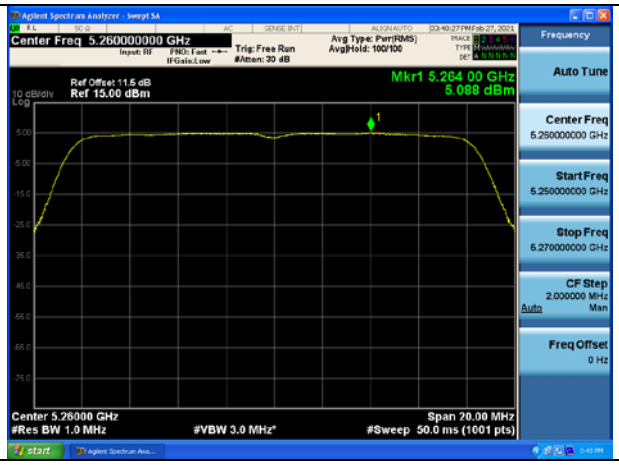
Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5260	1.36	Chain0	5.809
		Chain1	6.448
5280		Chain0	5.591
		Chain1	6.296
5320		Chain0	5.368
		Chain1	5.931

Test Mode:802.11a Chain0

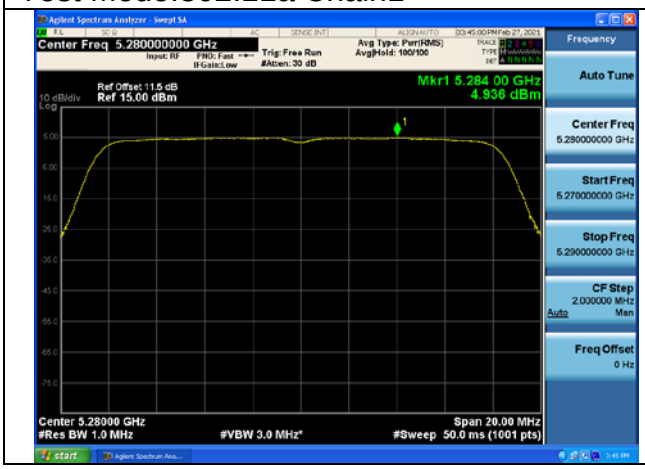
Test Mode:802.11a Chain0

Test Mode:802.11a Chain0

Test Mode:802.11a Chain1



Test Mode:802.11a Chain1

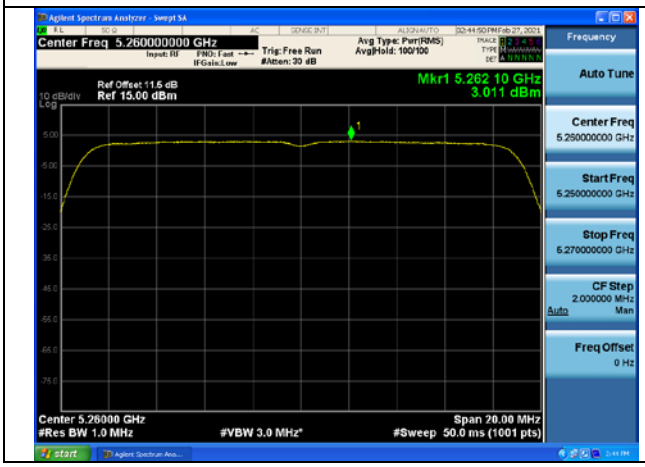


Test Mode:802.11a Chain1

Test Mode:802. 11n HT20

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5260	1.44	Chain0	4.451
		Chain1	5.109
		Chain0+Chain1	7.803
5280		Chain0	4.278
		Chain1	5.018
		Chain0+Chain1	7.674
5320		Chain0	4.205
		Chain1	5.636
		Chain0+Chain1	7.989

Test Mode:802. 11n HT20 Chain0

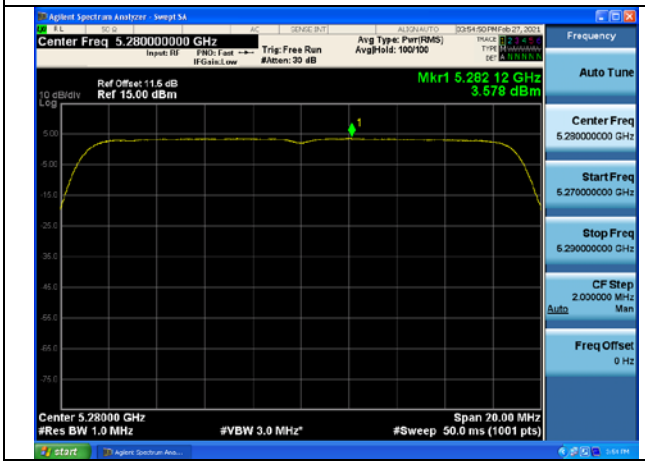


Test Mode:802. 11n HT20 Chain0

Test Mode:802. 11n HT20 Chain0

Test Mode:802. 11n HT20 Chain1

Test Mode:802. 11n HT20 Chain1

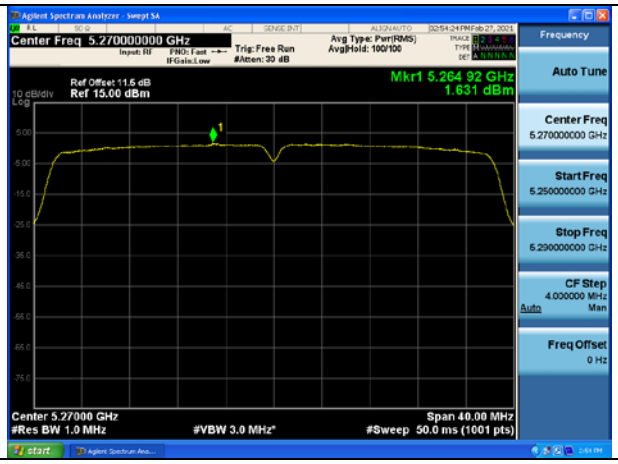


Test Mode:802. 11n HT20 Chain1

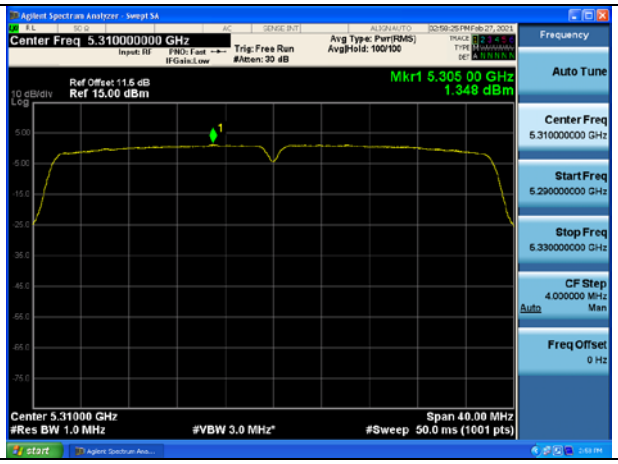
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5270	1.81	Chain0	3.441
		Chain1	3.999
		Chain0+Chain1	6.739
5310		Chain0	3.158
		Chain1	3.594
		Chain0+Chain1	6.392

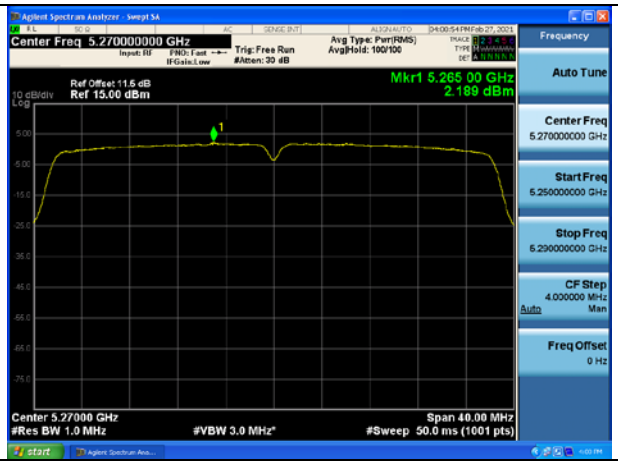
Test Mode:802. 11n HT40 Chain0



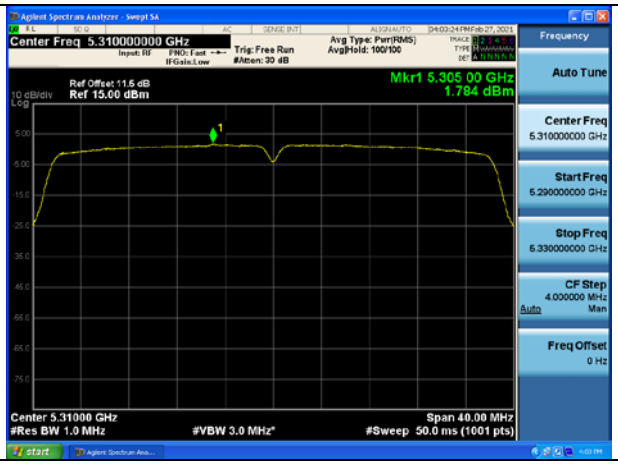
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1



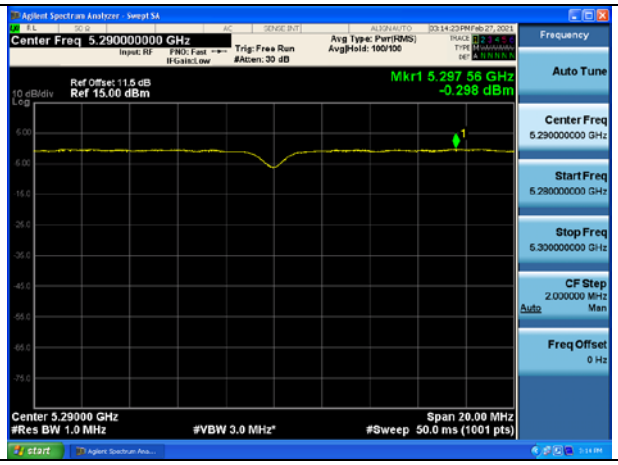
Test Mode:802. 11n HT40 Chain1



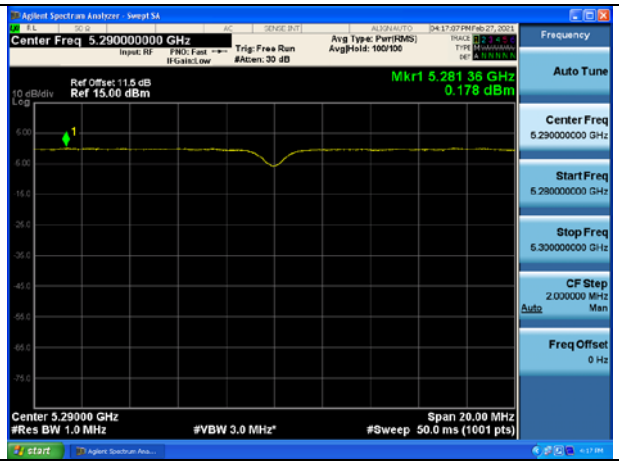
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5290	2.70	Chain0	2.402
		Chain1	2.878
		Chain0+Chain1	5.657

Test Mode:802. 11ac VHT80 Chain0



Test Mode:802. 11ac VHT80 Chain1



Frequency Stability

UNII-2A

Mode	Data Rate	Chain	Center Frequency (MHz)	Measured Frequency (MHz)	Frequency Stability (ppm)	Voltage (V)	Temperature (°C)
802.11a	6Mbps	Chain0	5260	5260.05565	10.58	NV	-10
			5260	5259.95944	-7.71	NV	0
			5260	5260.04640	8.82	NV	+10
			5260	5259.95833	-7.92	NV	+20
			5260	5259.98263	-3.30	HV	+20
			5260	5260.02178	4.14	LV	+20
			5260	5260.04418	8.40	NV	+30
			5260	5259.99122	-1.67	NV	+40
			5260	5259.99618	-0.73	NV	+50
			5260	5259.98373	-3.09	NV	+60
			5260	5260.02496	4.75	NV	+70
		Chain1	5260	5260.03169	6.02	NV	-10
			5260	5260.02150	4.09	NV	0
			5260	5259.99231	-1.46	NV	+10
			5260	5260.03758	7.14	NV	+20
			5260	5259.95337	-8.87	HV	+20
			5260	5259.98339	-3.16	LV	+20
			5260	5259.96940	-5.82	NV	+30
			5260	5260.05790	11.01	NV	+40
			5260	5260.03730	7.09	NV	+50
			5260	5259.95271	-8.99	NV	+60
			5260	5259.95501	-8.55	NV	+70