

## APPENDIX A – TEST DATA OF CONDUCTED EMISSION

### Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5745	97.83%	0.10
802.11n HT20	5745	97.17%	0.12
802.11ac VHT20	5745	97.15%	0.13
802.11n HT40	5755	94.91%	0.23
802.11ac VHT40	5755	94.97%	0.22
802.11ac VHT80	5775	91.24%	0.40

Note: Correction Factor=10\*log (1/Duty Cycle)

### Output Power

Mode	Tones/ RUIndex	Freq (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5745	Chain0	15.86	17.76
802.11a	NA	5785	Chain0	15.91	17.81
802.11a	NA	5825	Chain0	15.97	17.87
802.11ac VHT20	NA	5745	Chain0	15.86	17.76
802.11ac VHT20	NA	5785	Chain0	15.83	17.73
802.11ac VHT20	NA	5825	Chain0	15.71	17.61
802.11ac VHT40	NA	5755	Chain0	15.86	17.76
802.11ac VHT40	NA	5795	Chain0	15.90	17.8
802.11ac VHT80	NA	5775	Chain0	15.85	17.75
802.11n HT20	NA	5745	Chain0	15.93	17.83
802.11n HT20	NA	5785	Chain0	15.91	17.81
802.11n HT20	NA	5825	Chain0	15.73	17.63
802.11n HT40	NA	5755	Chain0	15.70	17.6
802.11n HT40	NA	5795	Chain0	15.17	17.07

## Emission Bandwidth

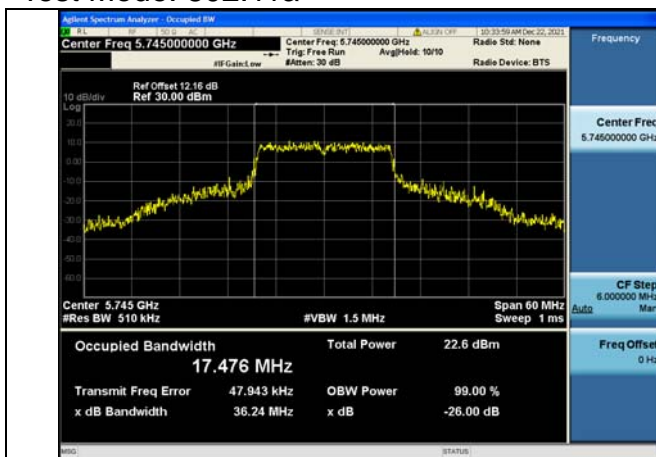
Offset 12.16dB = Attenuator 10dB + Temporary antenna connector loss 0.2dB + Cable loss 1.96dB

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	36.24	35.30	37.48
802.11n HT20	Chain0	41.44	35.97	39.43
802.11ac VHT20	Chain0	39.32	36.97	42.88

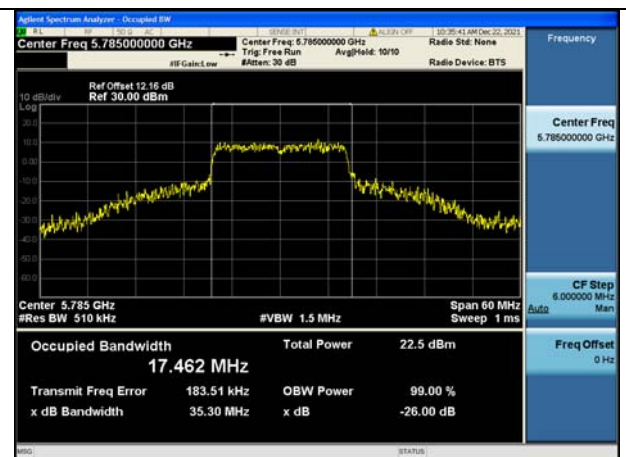
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5755MHz	2437 MHz	5795MHz
802.11n HT40	Chain0	59.79	---	60.00
802.11ac VHT40	Chain0	81.13	---	77.46

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5775MHz	2437 MHz	2462 MHz
802.11ac VHT80	Chain0	165.73	---	---

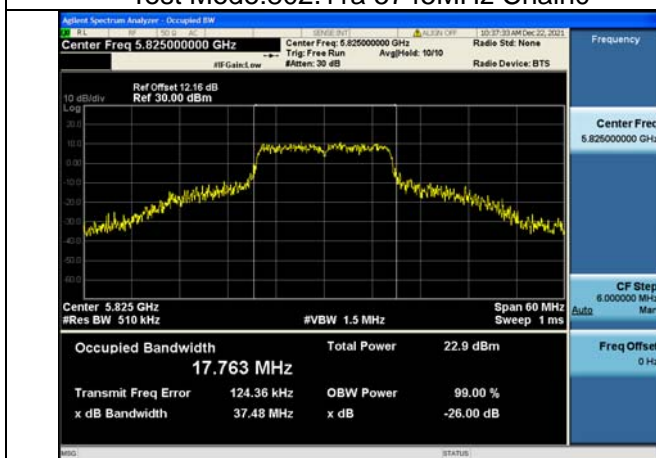
### Test Mode: 802.11a



Test Mode:802.11a 5745MHz Chain0

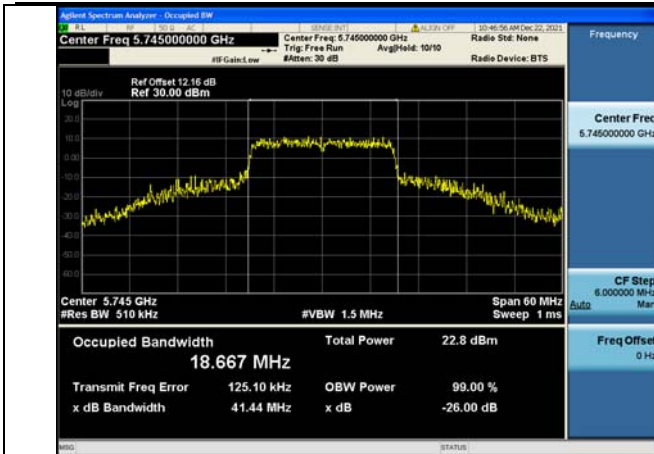


Test Mode:802.11a 5785MHz Chain0

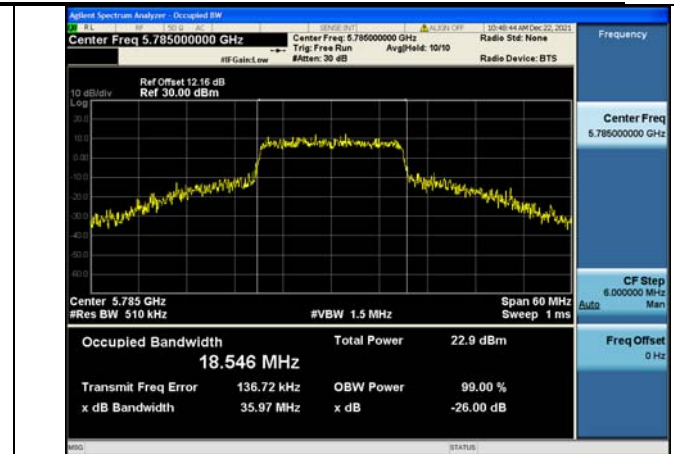


Test Mode:802.11a 5825MHz Chain0

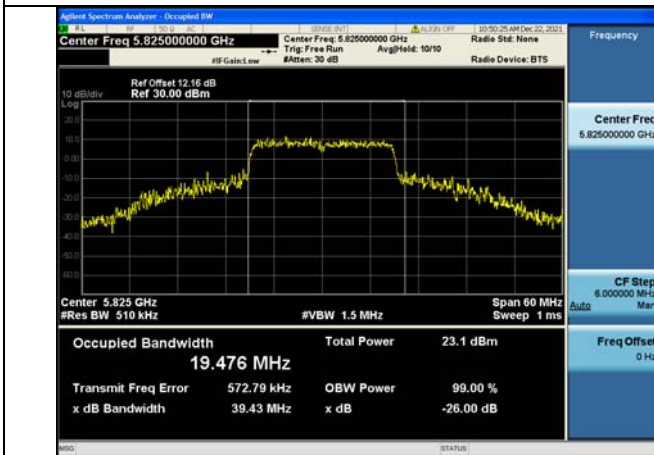
### Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0



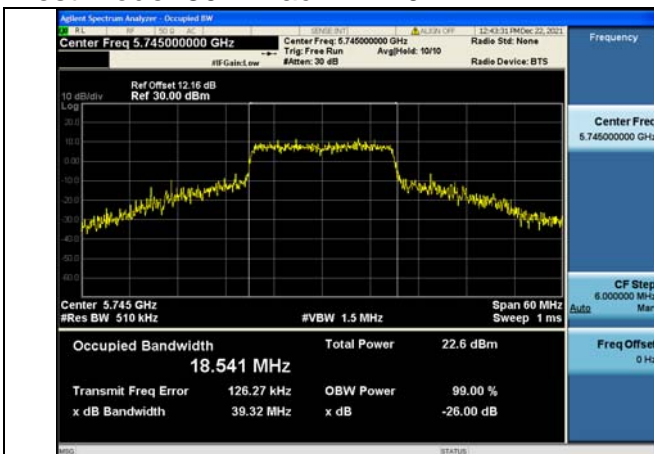
Test Mode:802.11n HT20 5785MHz Chain0



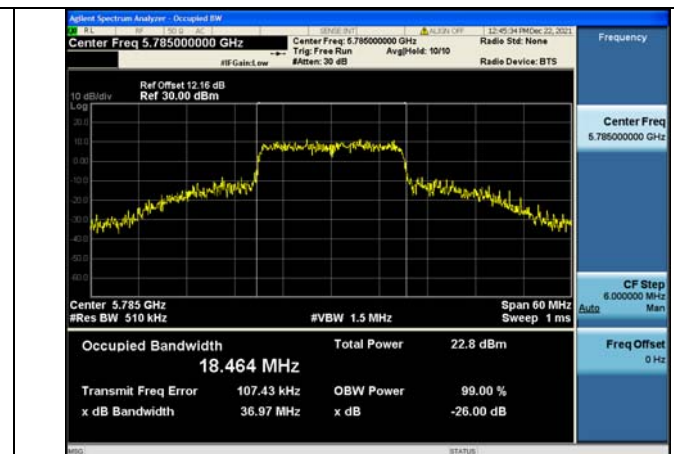
Test Mode:802.11n HT20 5825MHz Chain0



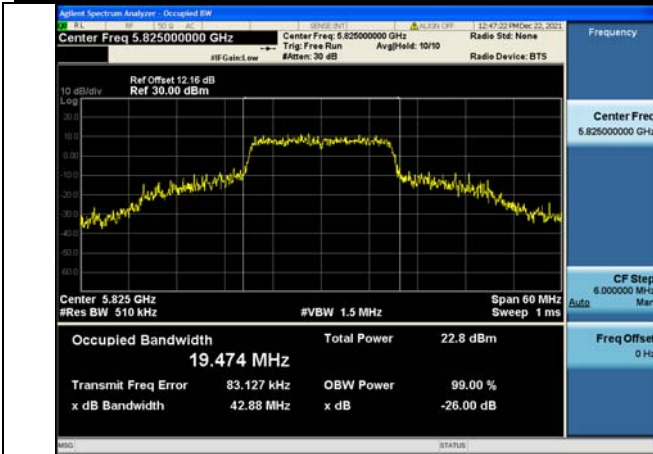
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5745MHz Chain0



Test Mode:802.11ac VHT20 5785MHz Chain0



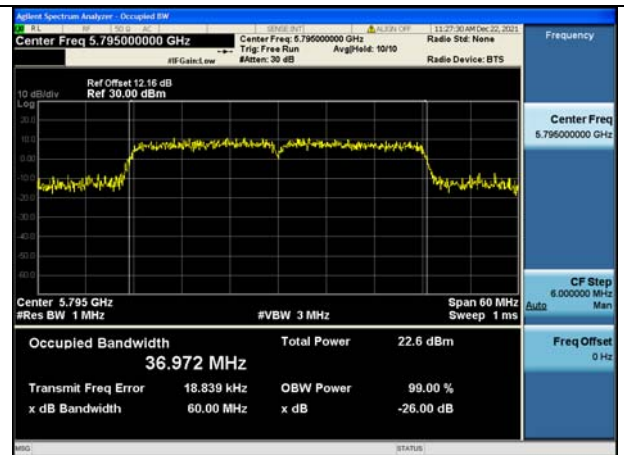
Test Mode:802.11ac VHT20 5825MHz Chain0

Test Mode: 802.11n HT40

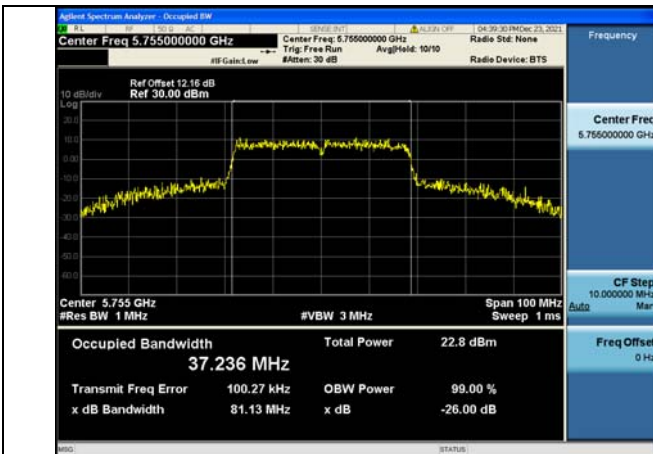


Test Mode:802.11n HT40 5755MHz Chain0

Test Mode: 802.11ac VHT40



Test Mode:802.11n HT40 5795MHz Chain0

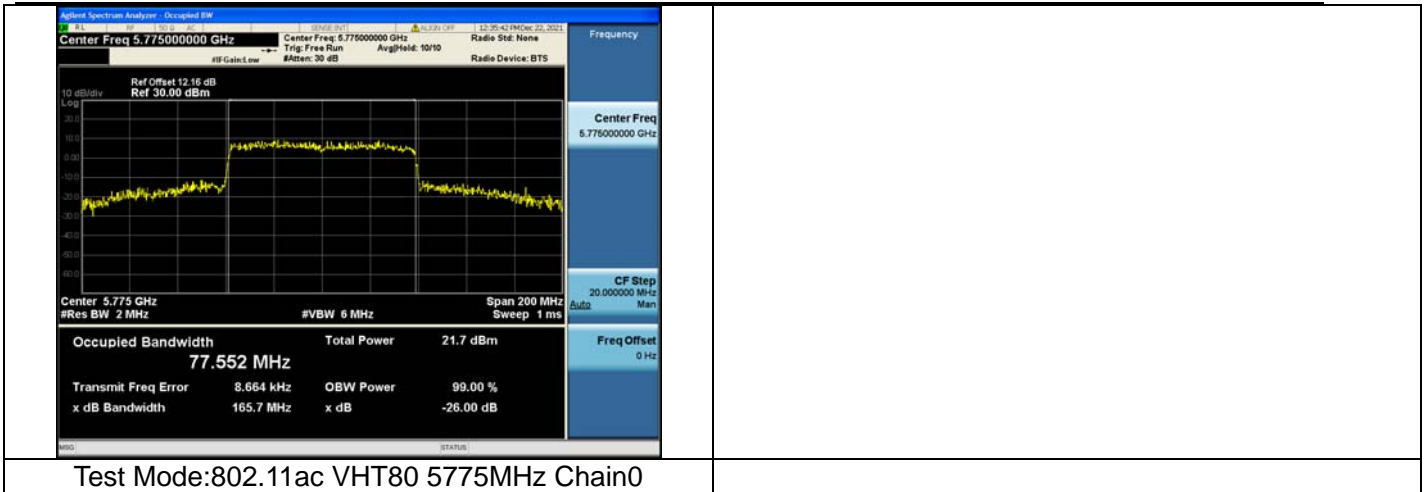


Test Mode:802.11ac VHT40 5755MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT40 5795MHz Chain0



### Occupied Bandwidth

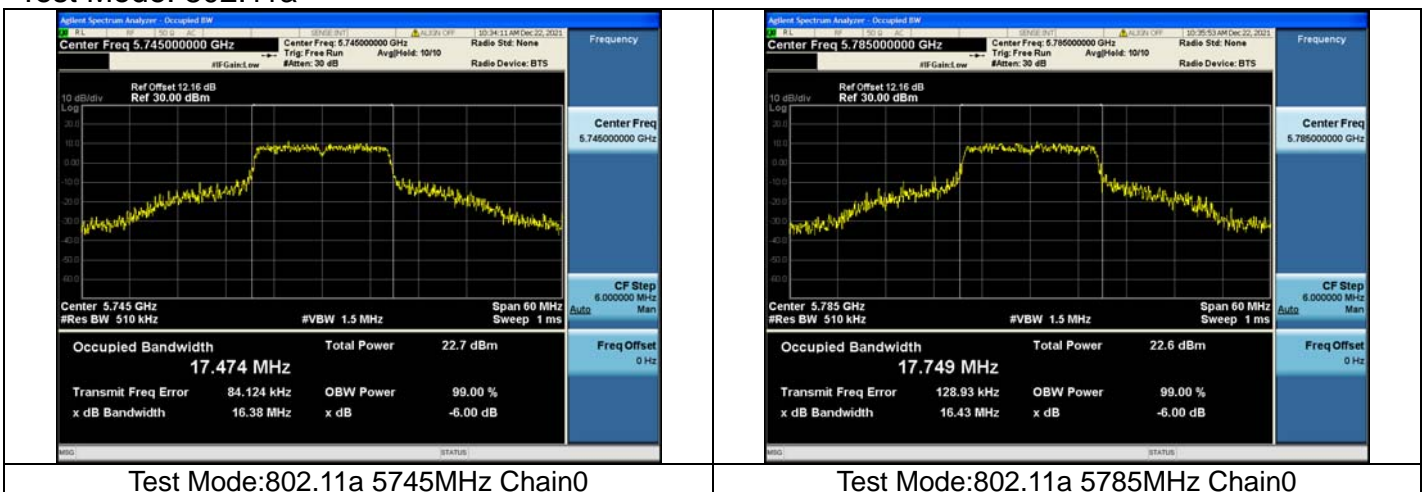
Offset 12.16dB = Attenuator 10dB + Temporary antenna connector loss 0.2dB + Cable loss 1.96dB

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	17.474	17.749	17.529
802.11n HT20	Chain0	18.811	19.099	18.938
802.11ac VHT20	Chain0	18.659	18.688	19.051

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5755MHz	2437 MHz	5795MHz
802.11n HT40	Chain0	36.934	---	37.002
802.11ac VHT40	Chain0	37.335	---	37.682

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5775MHz	2437 MHz	2462 MHz
802.11ac VHT80	Chain0	77.944	---	---

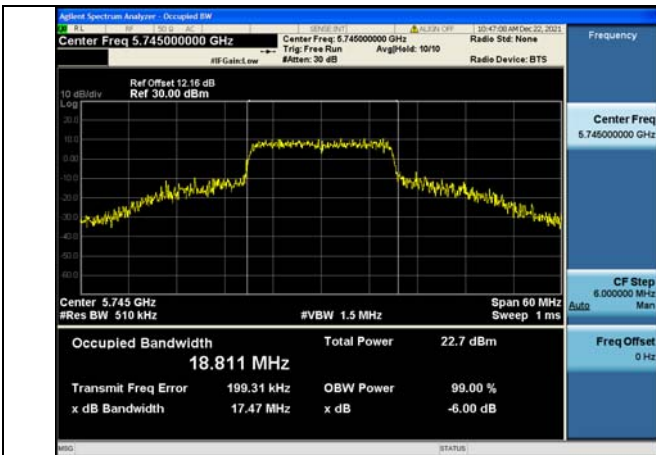
### Test Mode: 802.11a



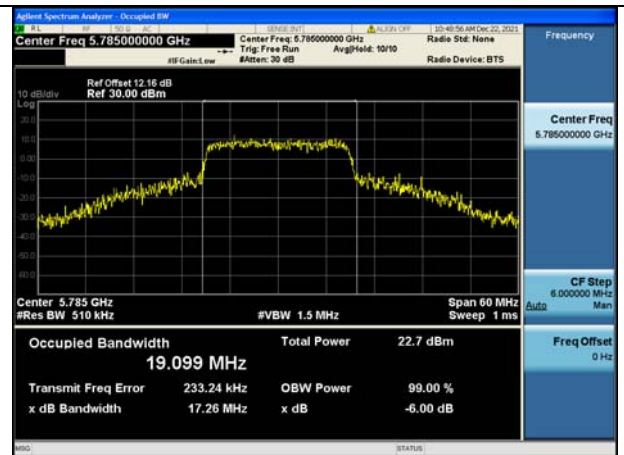


Test Mode:802.11a 5825MHz Chain0

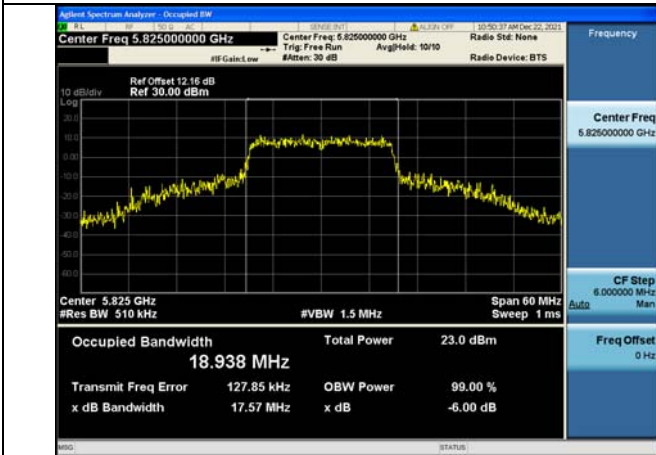
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

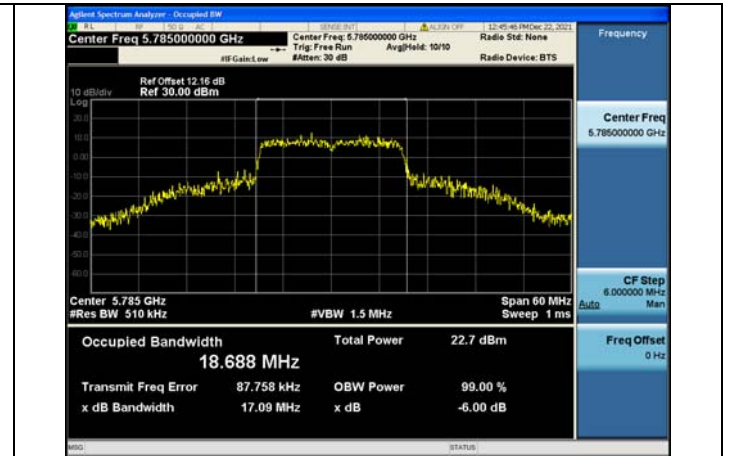
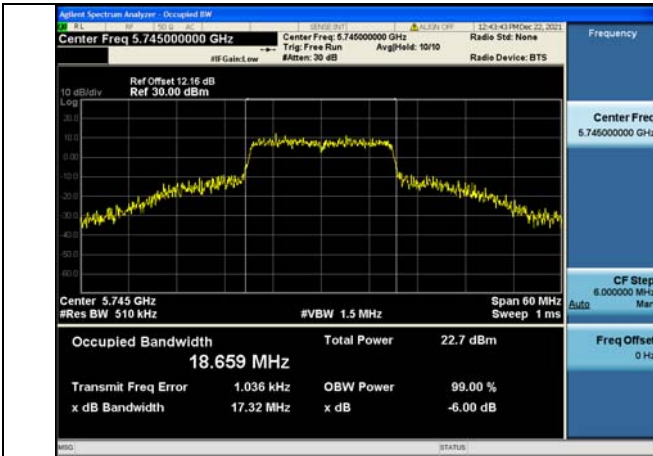


Test Mode:802.11n HT20 5785MHz Chain0



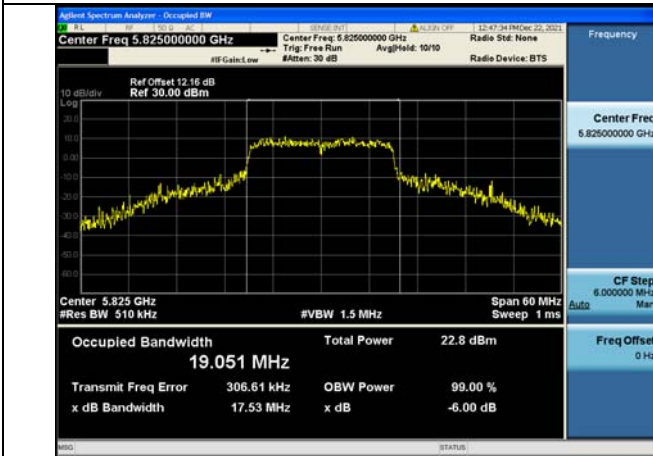
Test Mode:802.11n HT20 5825MHz Chain0

Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5745MHz Chain0

Test Mode:802.11ac VHT20 5785MHz Chain0

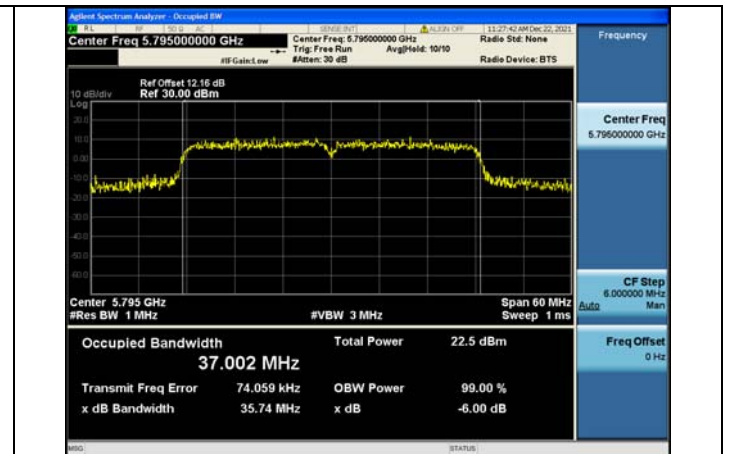


Test Mode:802.11ac VHT20 5825MHz Chain0

Test Mode: 802.11n HT40

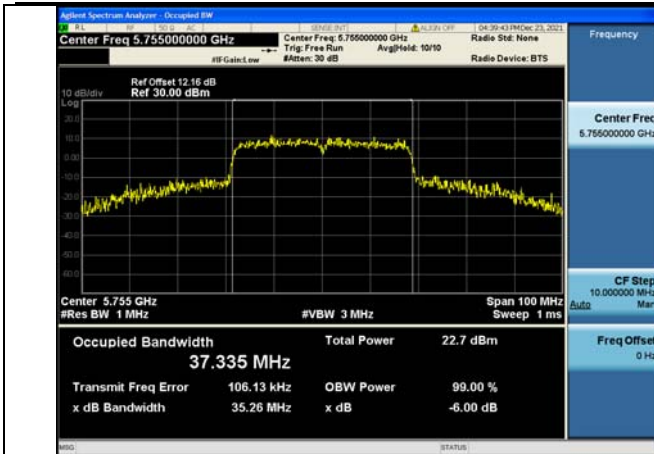


Test Mode:802.11n HT40 5755MHz Chain0

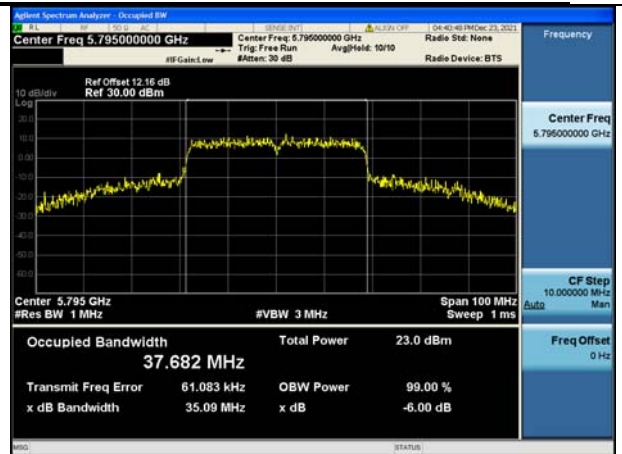


Test Mode:802.11n HT40 5795MHz Chain0

Test Mode: 802.11ac VHT40



Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0



### 6dB Bandwidth

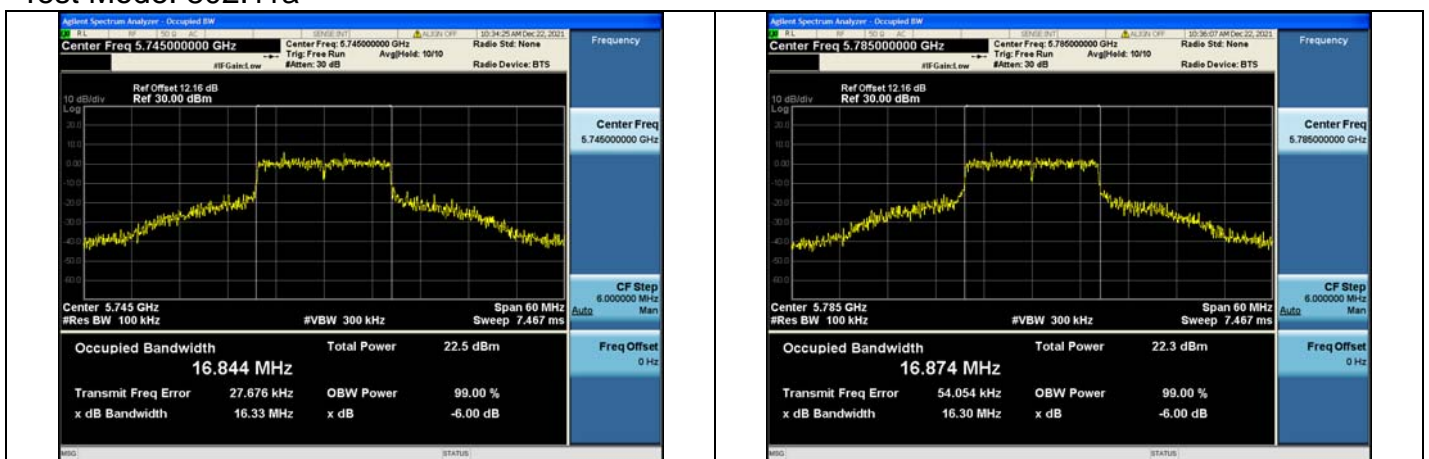
Offset 12.16dB = Attenuator 10dB + Temporary antenna connector loss 0.2dB + Cable loss 1.96dB

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.33	16.30	16.50
802.11n HT20	Chain0	17.01	17.24	16.72
802.11ac VHT20	Chain0	17.15	16.86	17.60

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5755MHz	2437 MHz	5795MHz
802.11n HT40	Chain0	35.58	---	34.95
802.11ac VHT40	Chain0	35.90	---	35.62

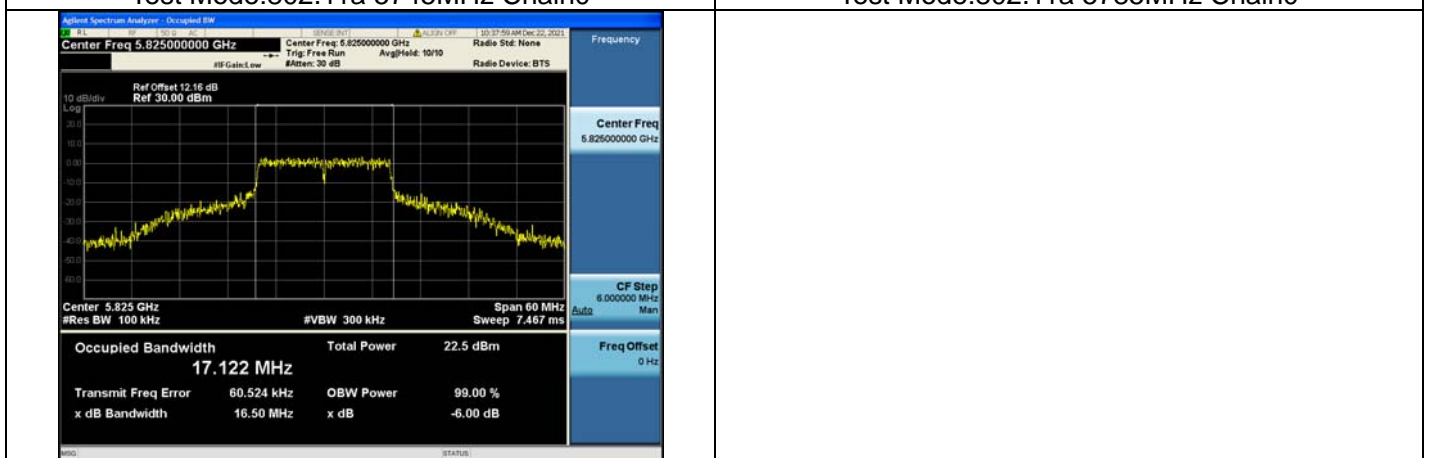
Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5775MHz	2437 MHz	2462 MHz
802.11ac VHT80	Chain0	75.51	---	---

### Test Mode: 802.11a



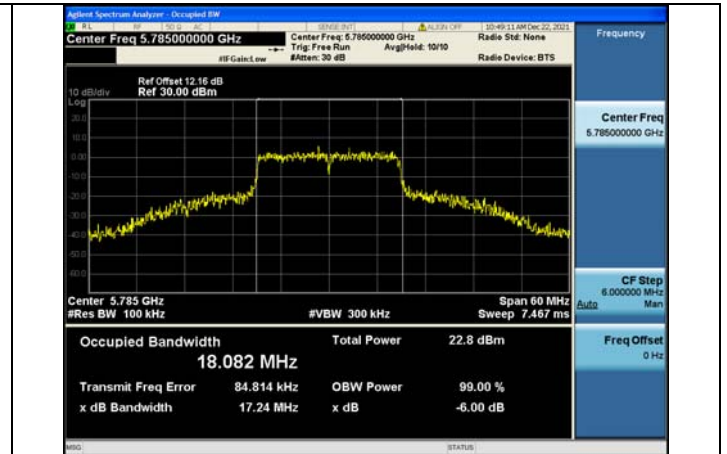
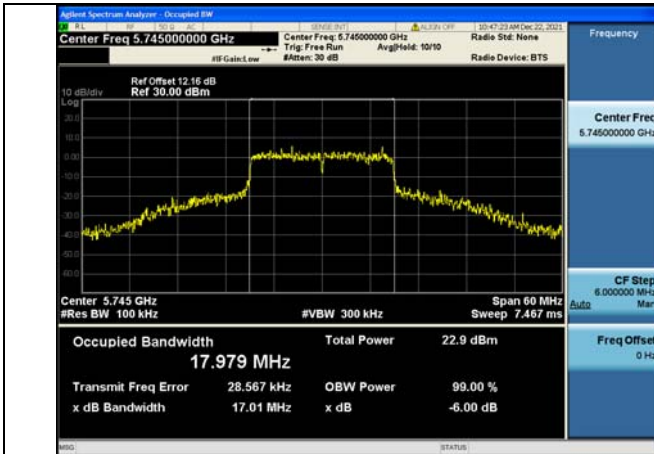
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0



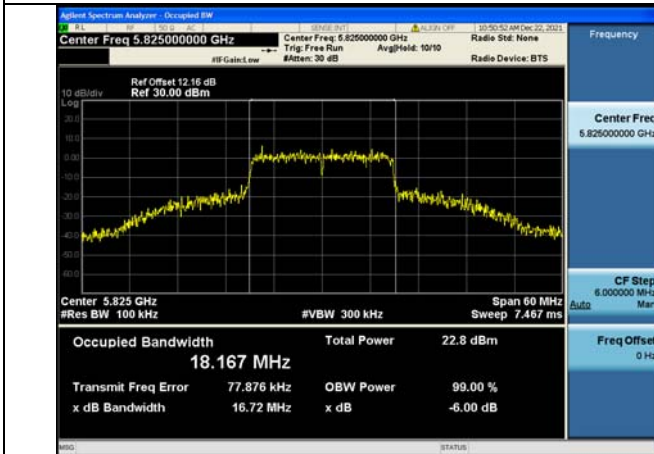
Test Mode:802.11a 5825MHz Chain0

Test Mode: 802.11n HT20



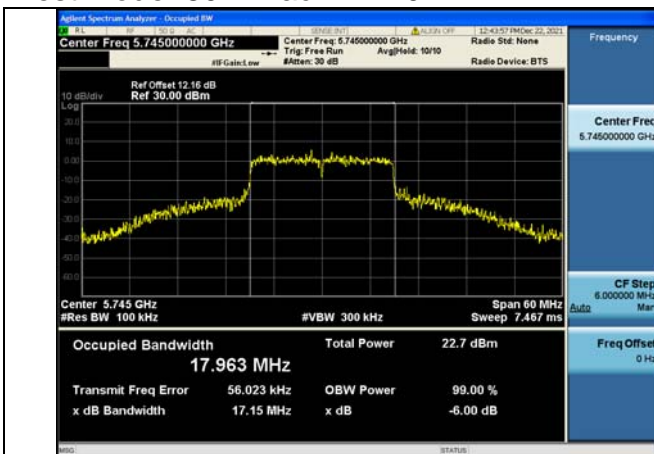
Test Mode:802.11n HT20 5745MHz Chain0

Test Mode:802.11n HT20 5785MHz Chain0

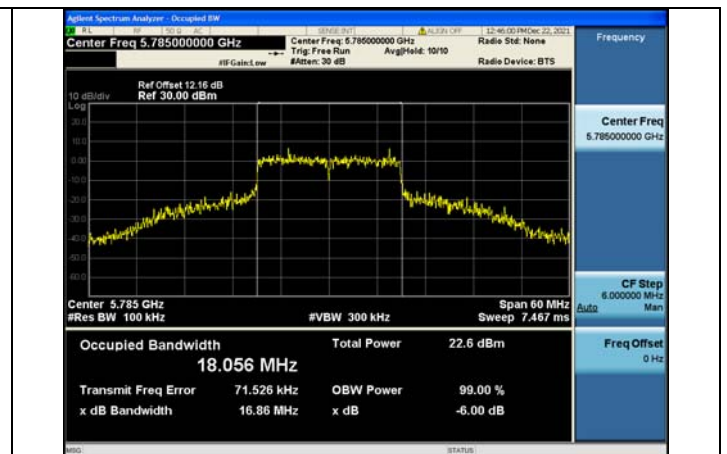


Test Mode:802.11n HT20 5825MHz Chain0

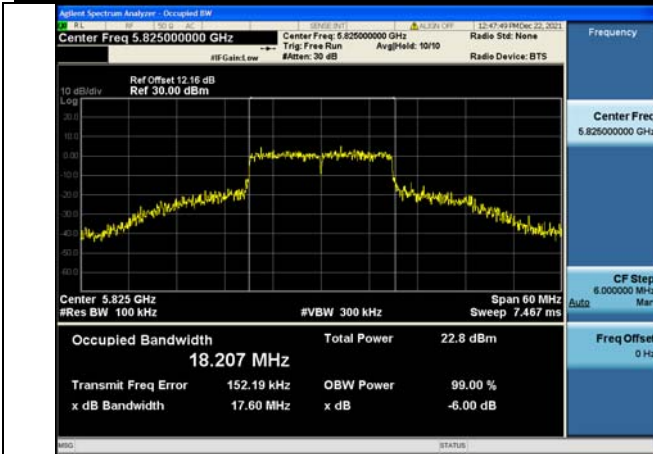
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5745MHz Chain0

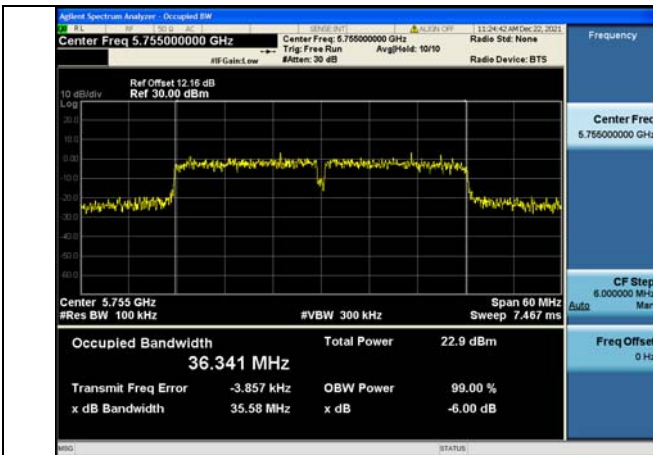


Test Mode:802.11ac VHT20 5785MHz Chain0



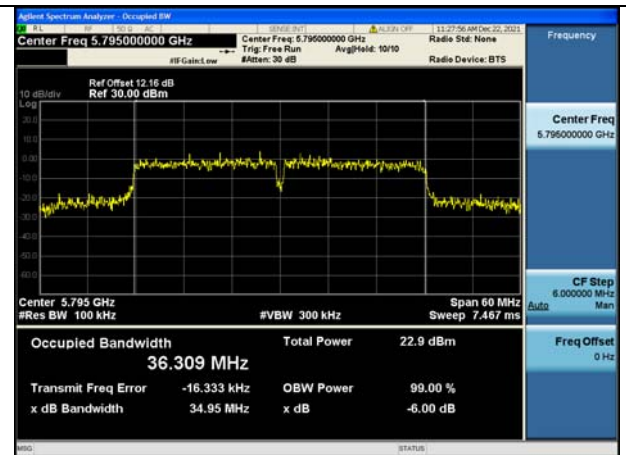
Test Mode:802.11ac VHT20 5825MHz Chain0

Test Mode: 802.11n HT40

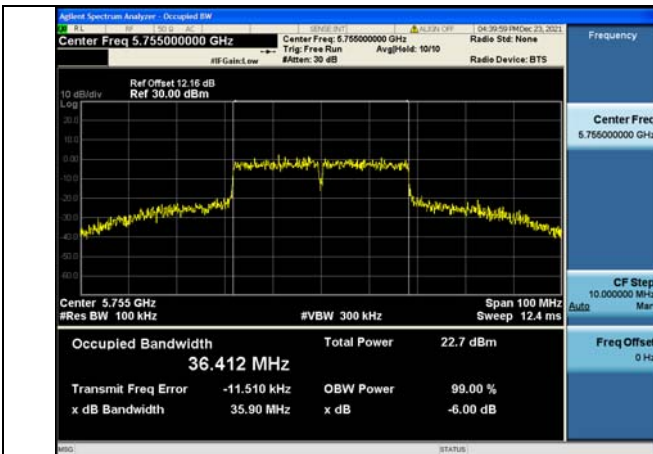


Test Mode:802.11n HT40 5755MHz Chain0

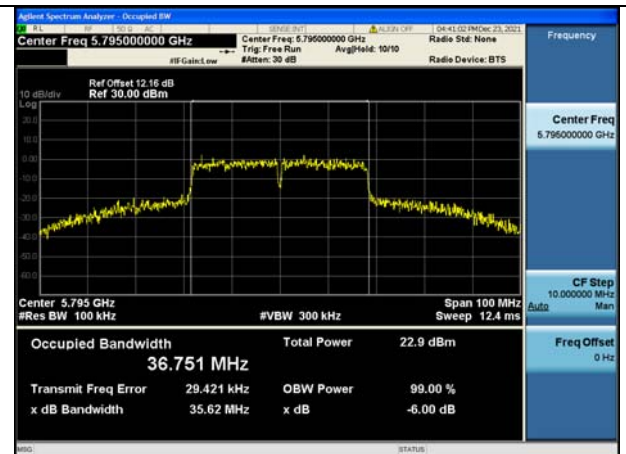
Test Mode: 802.11ac VHT40



Test Mode:802.11n HT40 5795MHz Chain0

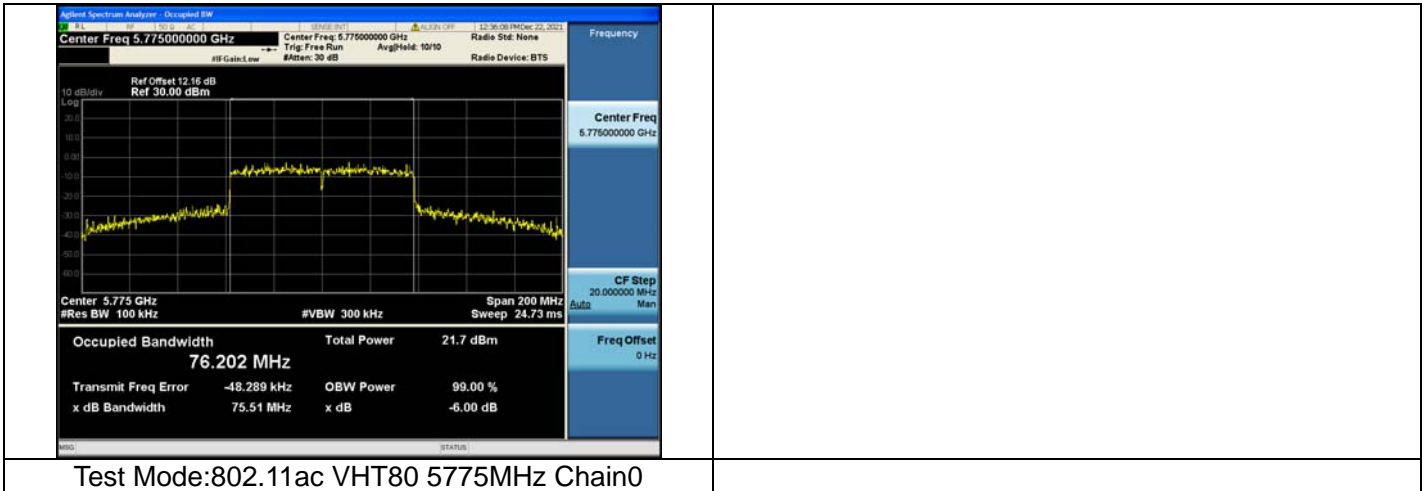


Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0

## Transmitter Power Spectral Density

Offset 12.16dB = Attenuator 10dB + Temporary antenna connector loss 0.2dB + Cable loss 1.96dB

Test Mode	Antenna	Channel No.0		Channel No.1		Channel No.2	
		2412 MHz		2437 MHz		2462 MHz	
		Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)
802.11a	Chain0	0.10	6.701	0.10	6.803	0.10	6.859
802.11n HT20	Chain0	0.12	6.145	0.12	6.284	0.12	6.469
802.11a c VHT20	Chain0	0.13	5.948	0.13	6.391	0.13	6.411

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/\text{RBW})$  to the measured result.

Test Mode	Antenna	Channel No.0		Channel No.1		Channel No.2	
		2412 MHz		2437 MHz		2462 MHz	
		Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)
802.11n HT40	Chain0	0.23	3.496	---	---	0.23	3.713
802.11a c VHT40	Chain0	0.22	3.636	---	---	0.22	3.543

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/\text{RBW})$  to the measured result.

Test Mode	Antenna	Channel No.0		Channel No.1		Channel No.2	
		2412 MHz		2437 MHz		2462 MHz	
		Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)
802.11a c VHT80	Chain0	0.40	0.764	---	---	---	---

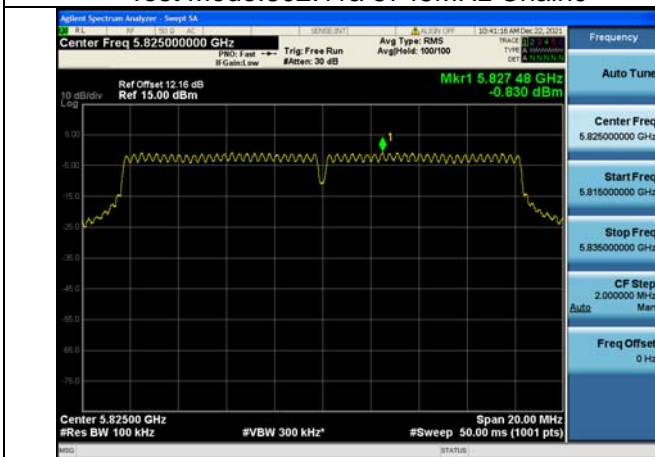
Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/\text{RBW})$  to the measured result.

Test Mode: 802.11a



Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0



Test Mode:802.11a 5825MHz Chain0

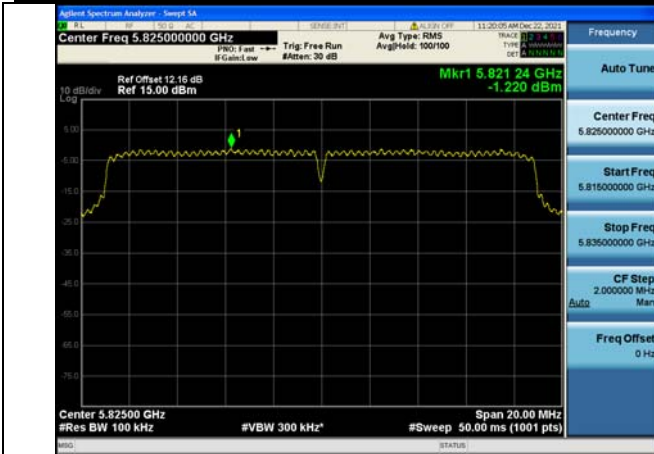
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0



Test Mode:802.11n HT20 5785MHz Chain0



Test Mode:802.11n HT20 5825MHz Chain0

Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5745MHz Chain0

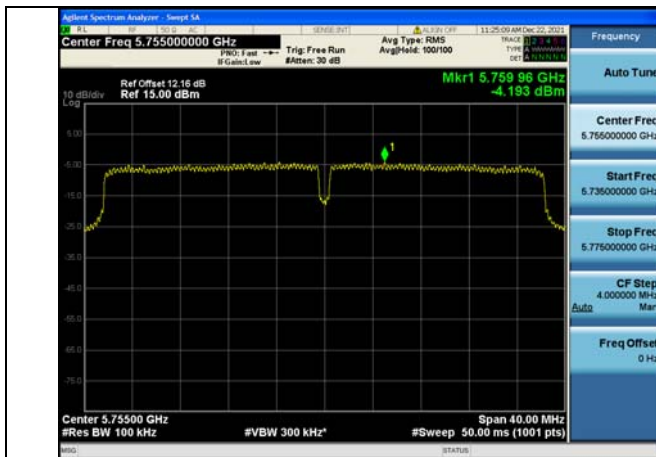


Test Mode:802.11ac VHT20 5785MHz Chain0

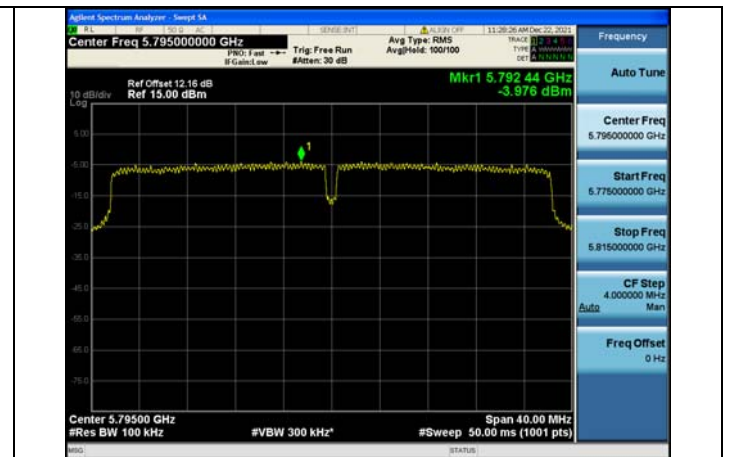


Test Mode:802.11ac VHT20 5825MHz Chain0

Test Mode: 802.11n HT40

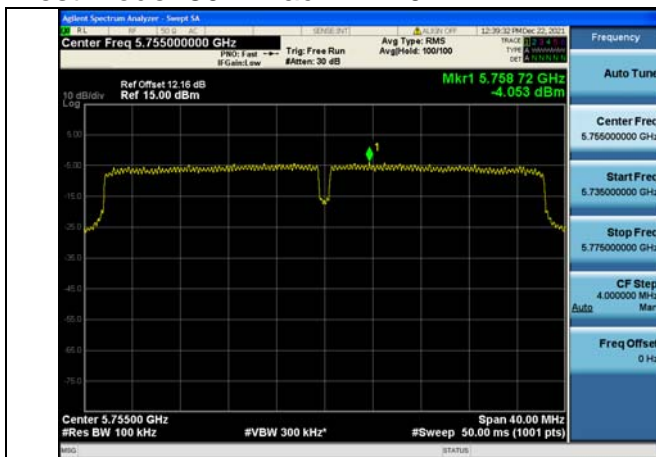


Test Mode:802.11n HT40 5755MHz Chain0

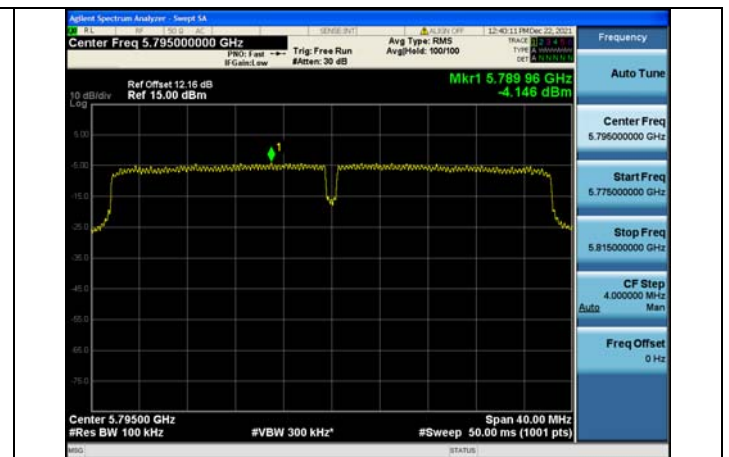


Test Mode:802.11n HT40 5795MHz Chain0

Test Mode: 802.11ac VHT40



Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0