

## APPENDIX A – TEST DATA OF CONDUCTED EMISSION

### Duty Cycle

Test Mode	Antenna	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	Chain0	5745	99.21%	0	Fig.1
802.11n HT20	Chain0	5745	99.13%	0	Fig.2
802.11ac VHT20	Chain0	5745	99.00%	0	Fig.3
802.11n HT40	Chain0	5755	98.17%	0	Fig.4
802.11ac VHT40	Chain0	5755	98.17%	0	Fig.5
802.11ac VHT80	Chain0	5775	96.47%	0.16	Fig.6

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

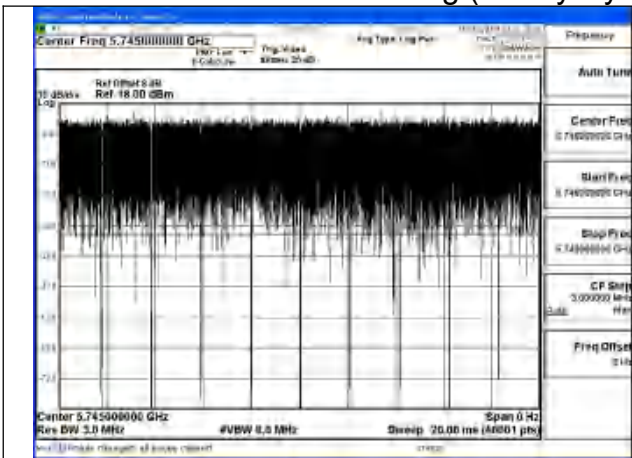


Fig.1

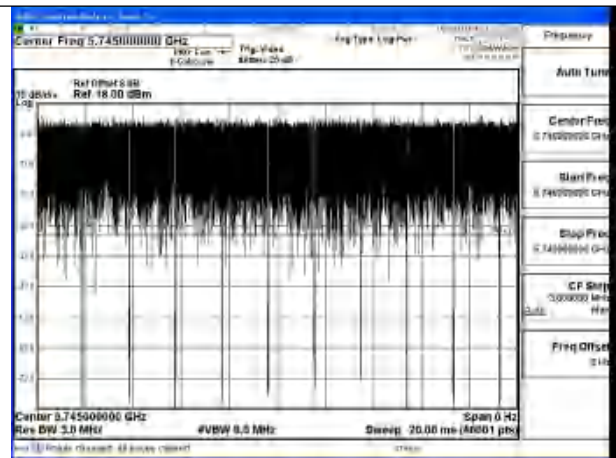


Fig.2

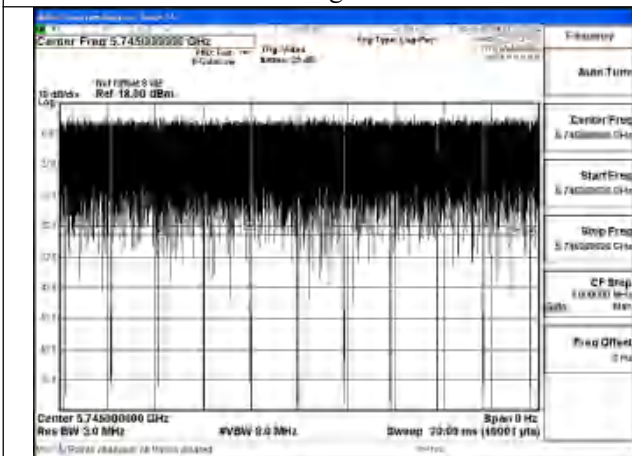


Fig.3

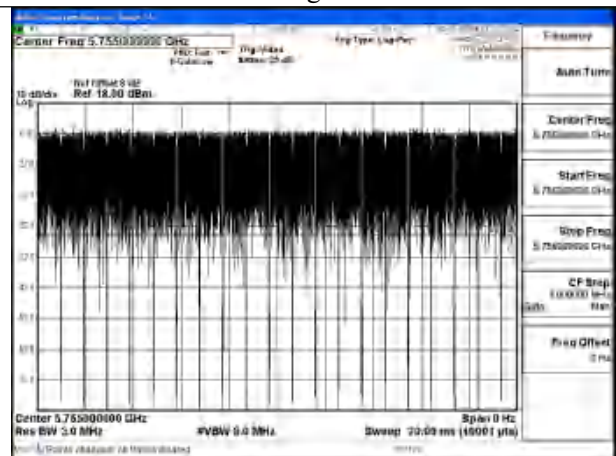


Fig.4

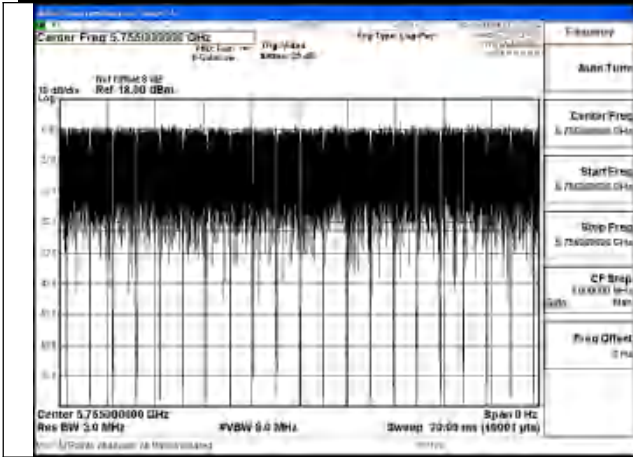


Fig.5

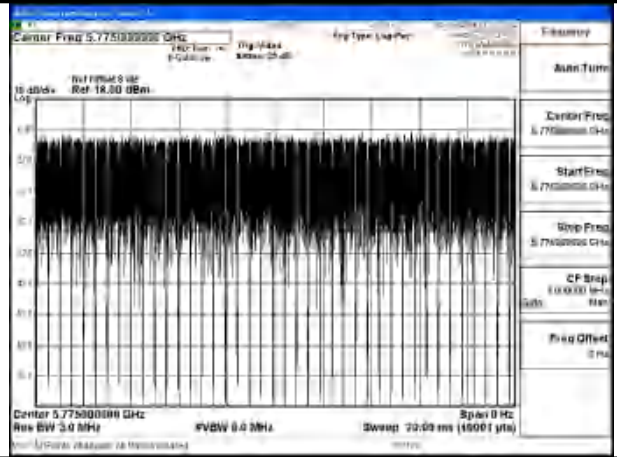


Fig.6

### Output Power

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5745	Chain0	10.78	10.38
802.11a	NA	5785	Chain0	10.49	10.09
802.11a	NA	5825	Chain0	10.63	10.23
802.11n HT20	NA	5745	Chain0	10.61	10.21
802.11n HT20	NA	5785	Chain0	10.93	10.53
802.11n HT20	NA	5825	Chain0	10.44	10.04
802.11ac VHT20	NA	5745	Chain0	10.59	10.19
802.11ac VHT20	NA	5785	Chain0	10.93	10.53
802.11ac VHT20	NA	5825	Chain0	10.57	10.17
802.11n HT40	NA	5755	Chain0	10.31	9.91
802.11n HT40	NA	5795	Chain0	10.47	10.07
802.11ac VHT40	NA	5755	Chain0	10.56	10.16
802.11ac VHT40	NA	5795	Chain0	10.91	10.51
802.11ac VHT80	NA	5775	Chain0	10.94	10.54



### Emission Bandwidth

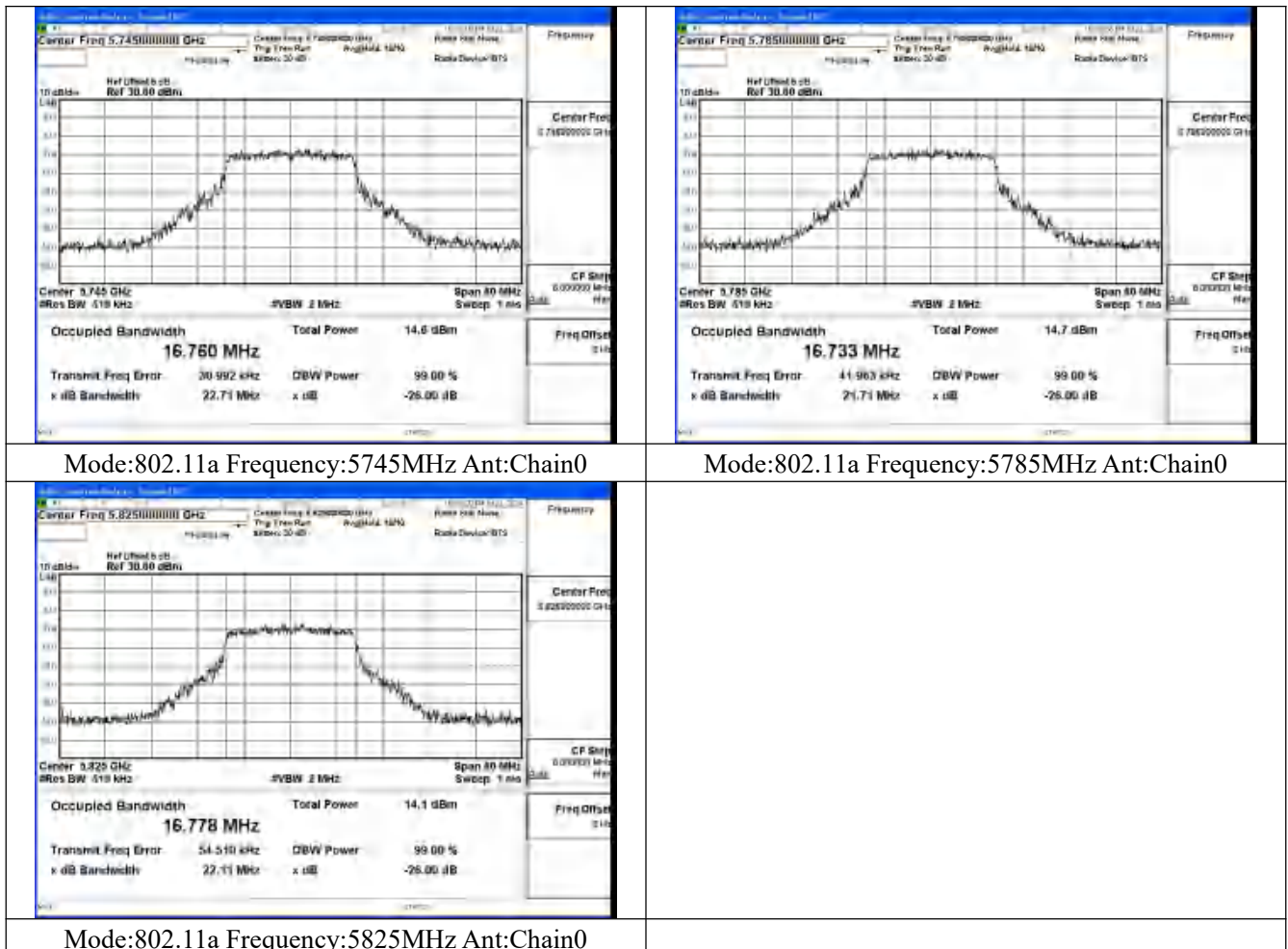
Offset 8dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	22.71	21.71	22.11
802.11n HT20	Chain0	22.84	23.73	23.36
802.11ac VHT20	Chain0	24.88	22.06	23.47

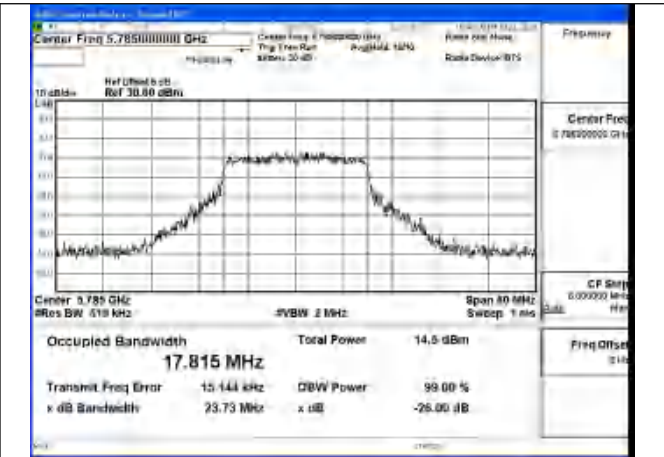
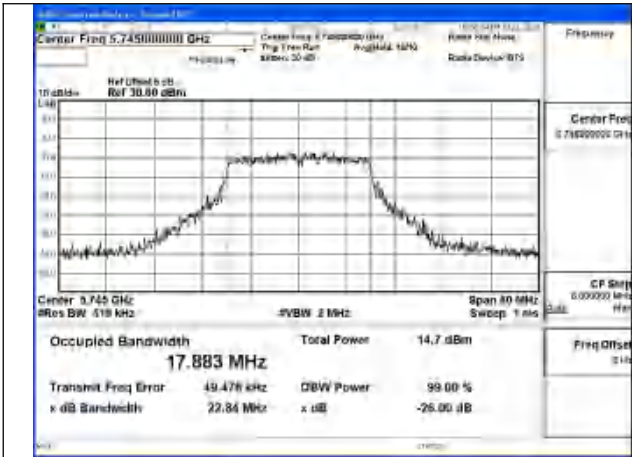
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5755MHz	---	5795MHz
802.11n HT40	Chain0	40.29	---	41.57
802.11ac VHT40	Chain0	40.80	---	40.20

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5775MHz	---	---
802.11ac VHT80	Chain0	81.64	---	---

Test Mode: 802.11a

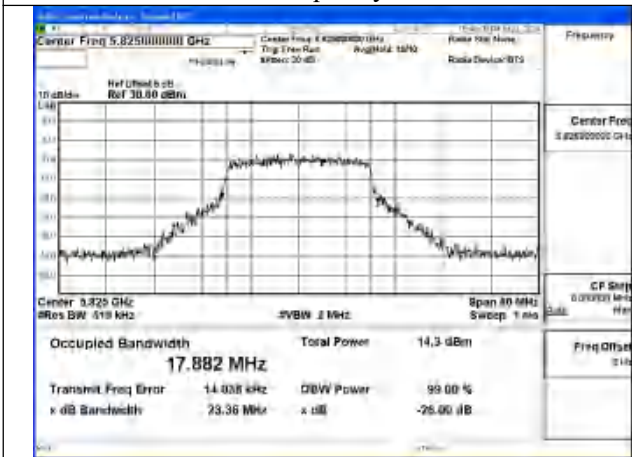


Test Mode: 802.11n HT20



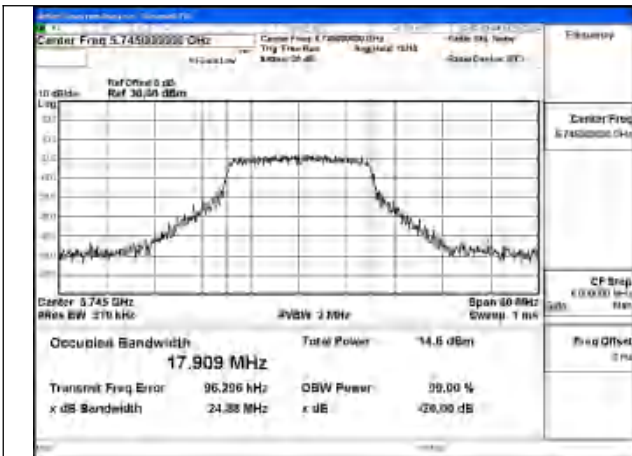
Mode:802.11n HT20 Frequency:5745MHz Ant:Chain0

Mode:802.11n HT20 Frequency:5785MHz Ant:Chain0

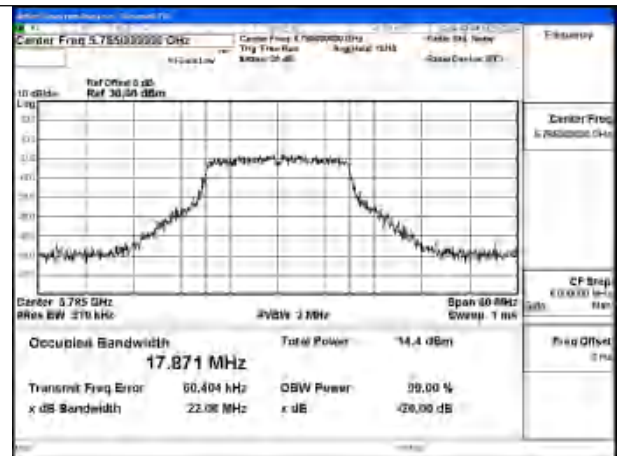


Mode:802.11n HT20 Frequency:5825MHz Ant:Chain0

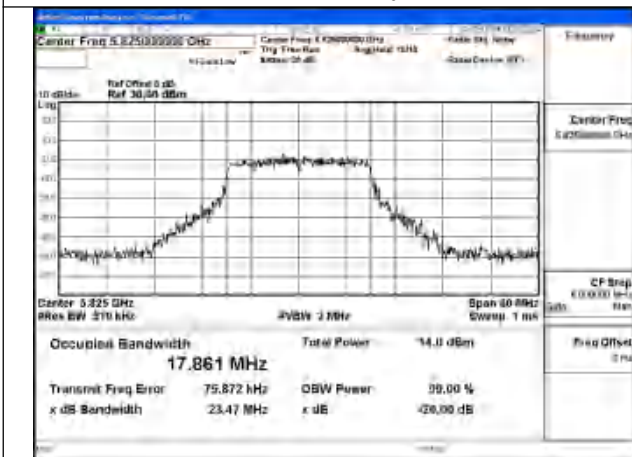
Test Mode: 802.11ac VHT20



Mode:802.11ac VHT20 Frequency:5745MHz  
 Ant:Chain0

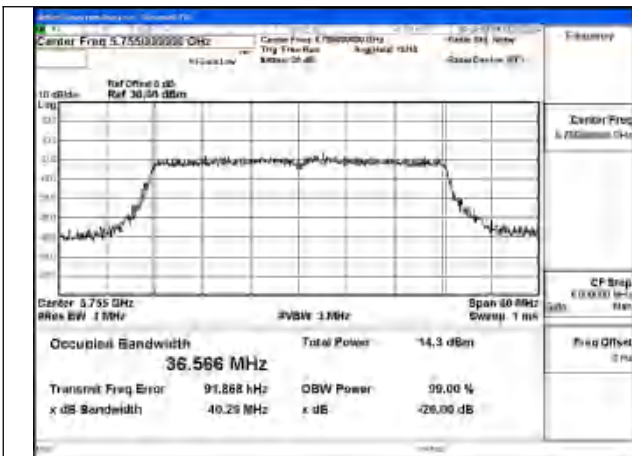


Mode:802.11ac VHT20 Frequency:5785MHz  
 Ant:Chain0

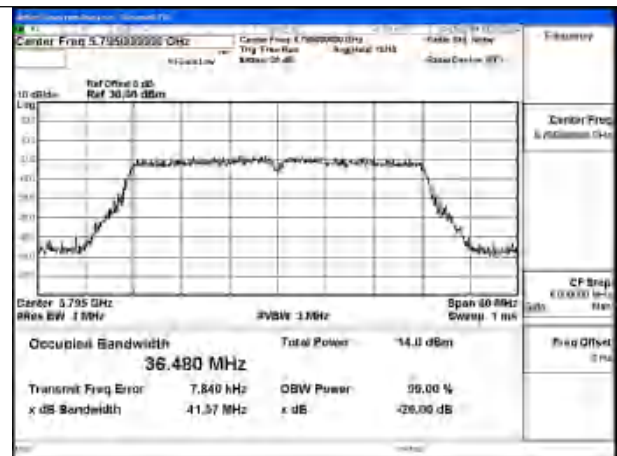


Mode:802.11ac VHT20 Frequency:5825MHz  
 Ant:Chain0

Test Mode: 802.11n HT40

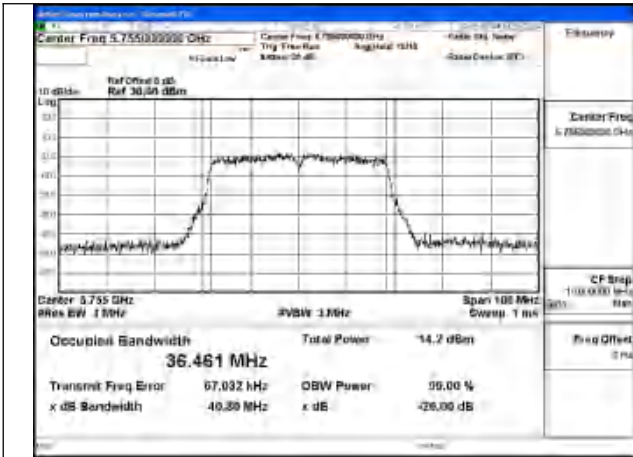


Mode:802.11n HT40 Frequency:5755MHz Ant:Chain0

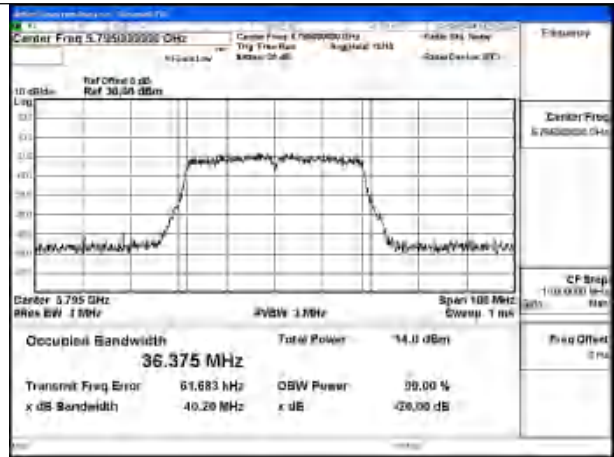


Mode:802.11n HT40 Frequency:5795MHz Ant:Chain0

Test Mode: 802.11ac VHT40

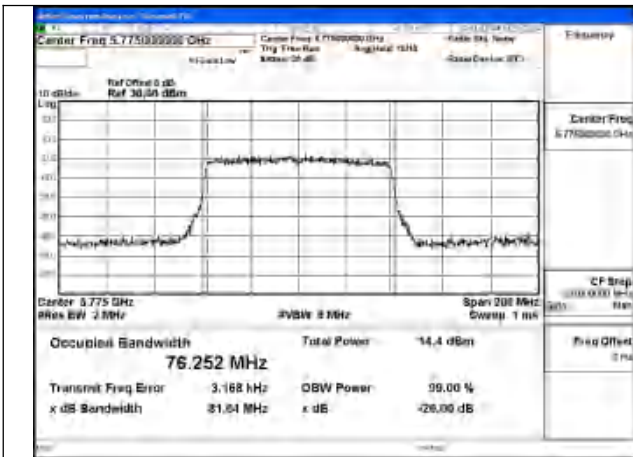


Mode:802.11ac VHT40 Frequency:5755MHz  
 Ant:Chain0



Mode:802.11ac VHT40 Frequency:5795MHz  
 Ant:Chain0

Test Mode: 802.11ac VHT80



Mode:802.11ac VHT80 Frequency:5775MHz  
 Ant:Chain0



### Occupied Bandwidth

Offset 8dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.709	16.652	16.720
802.11n HT20	Chain0	17.905	17.888	17.922
802.11ac VHT20	Chain0	17.968	17.918	17.941

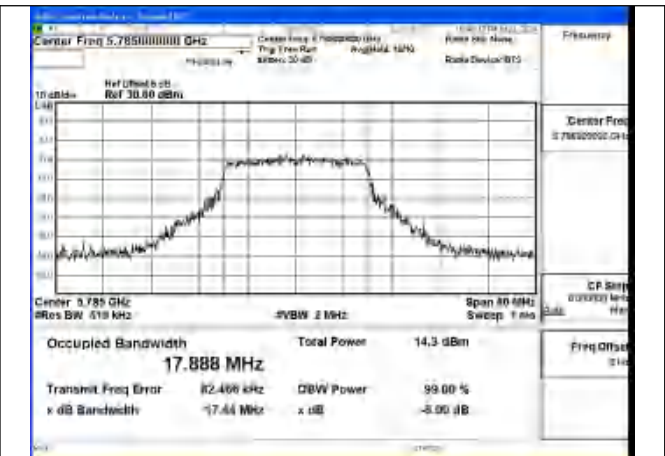
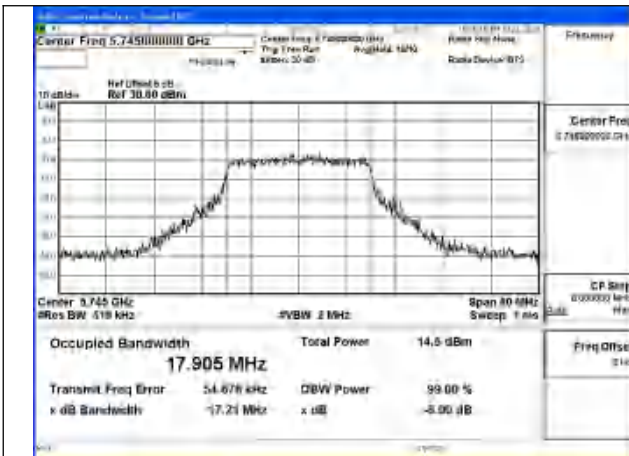
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5755MHz	---	5795MHz
802.11n HT40	Chain0	36.518	---	36.437
802.11ac VHT40	Chain0	36.539	---	36.430

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5775MHz	---	---
802.11ac VHT80	Chain0	76.272	---	---

Test Mode: 802.11a

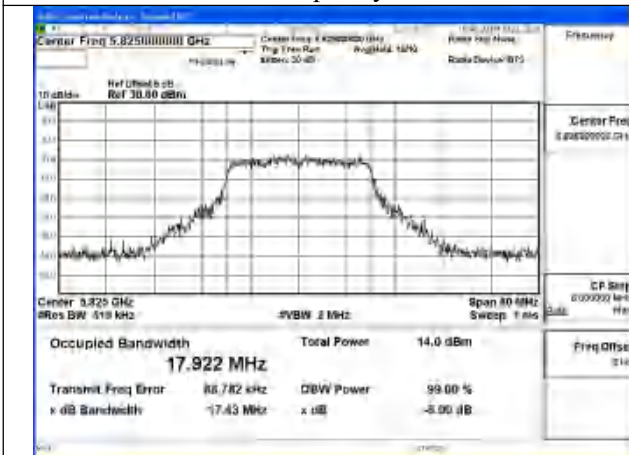
<p>Mode:802.11a Frequency:5745MHz Ant:Chain0</p>	<p>Mode:802.11a Frequency:5785MHz Ant:Chain0</p>
<p>Mode:802.11a Frequency:5825MHz Ant:Chain0</p>	

Test Mode: 802.11n HT20



Mode:802.11n HT20 Frequency:5745MHz Ant:Chain0

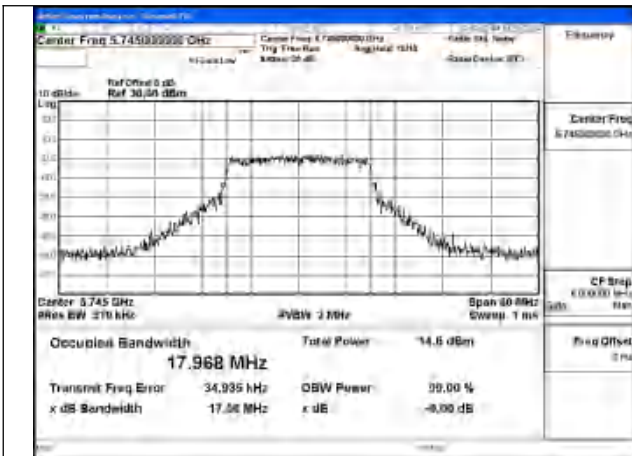
Mode:802.11n HT20 Frequency:5785MHz Ant:Chain0



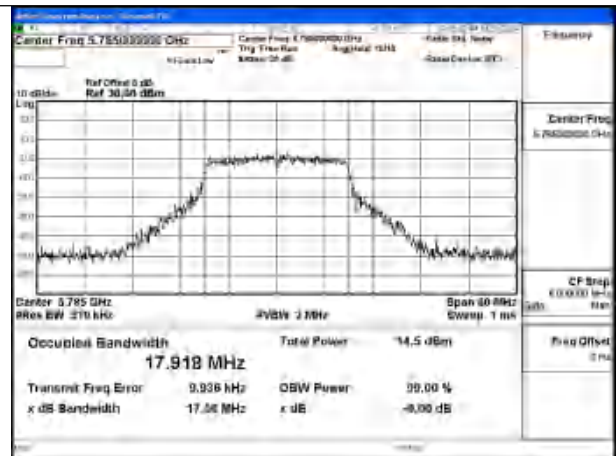
Mode:802.11n HT20 Frequency:5825MHz Ant:Chain0



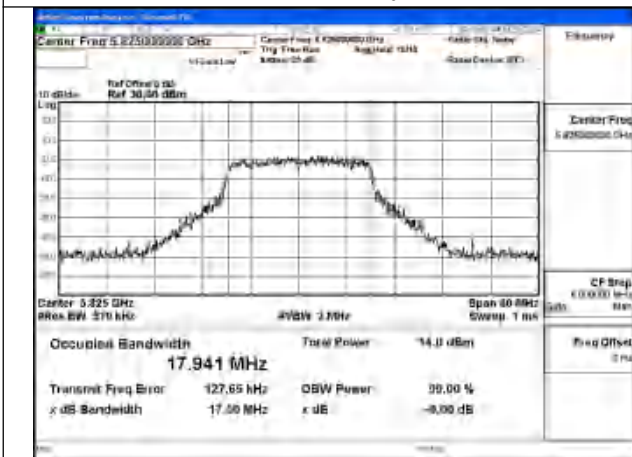
Test Mode: 802.11ac VHT20



Mode:802.11ac VHT20 Frequency:5745MHz  
Ant:Chain0

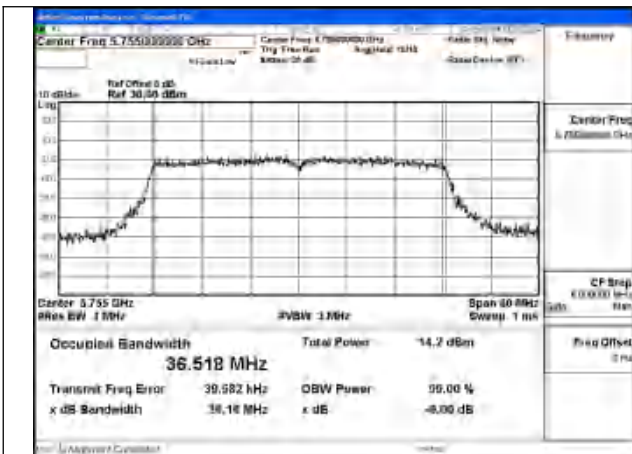


Mode:802.11ac VHT20 Frequency:5785MHz  
Ant:Chain0

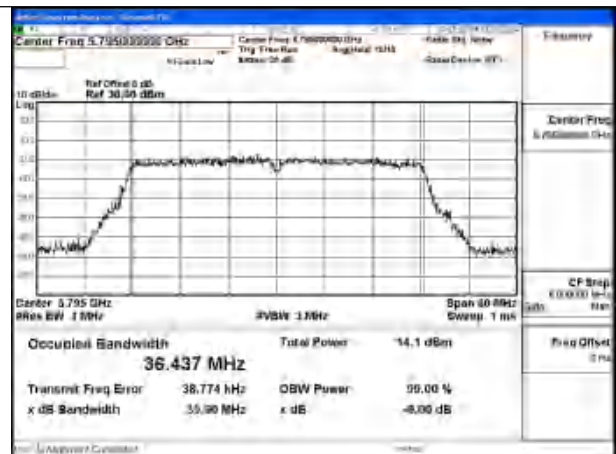


Mode:802.11ac VHT20 Frequency:5825MHz  
Ant:Chain0

Test Mode: 802.11n HT40

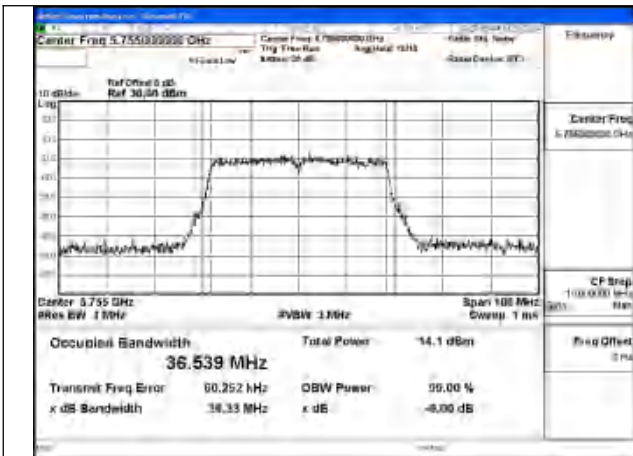


Mode:802.11n HT40 Frequency:5755MHz Ant:Chain0

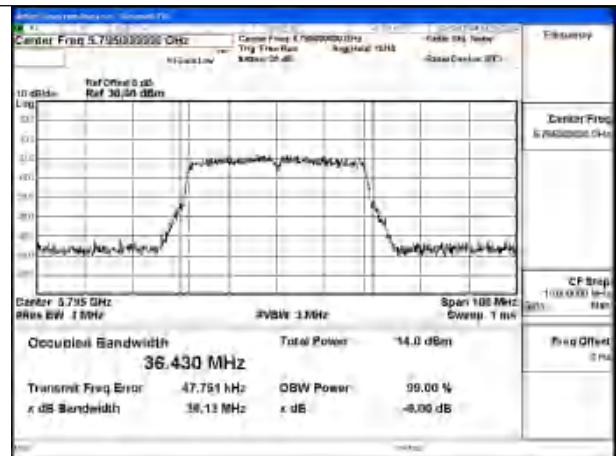


Mode:802.11n HT40 Frequency:5795MHz Ant:Chain0

Test Mode: 802.11ac VHT40

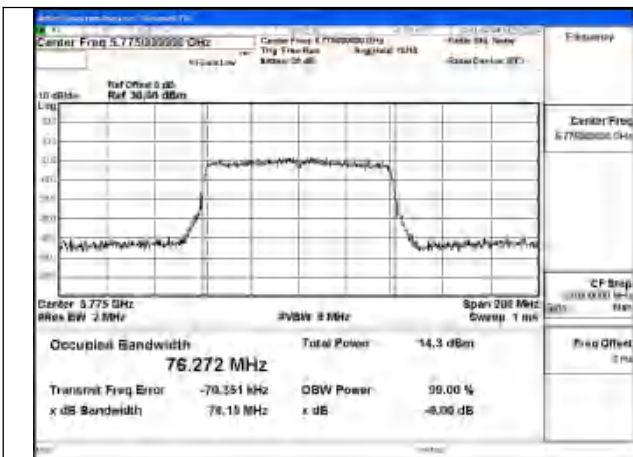


Mode:802.11ac VHT40 Frequency:5755MHz  
 Ant:Chain0

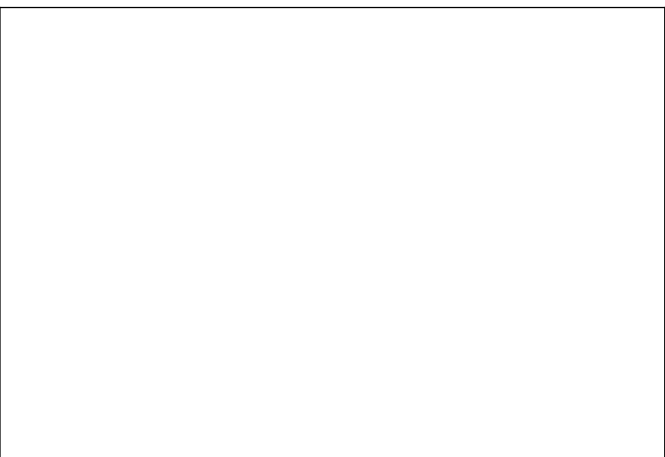


Mode:802.11ac VHT40 Frequency:5795MHz  
 Ant:Chain0

Test Mode: 802.11ac VHT80



Mode:802.11ac VHT80 Frequency:5775MHz  
 Ant:Chain0





### 6dB Bandwidth

Offset 8dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	6dB Bandwidth (MHz)		
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.34	16.39	16.35
802.11n HT20	Chain0	17.60	17.57	17.63
802.11ac VHT20	Chain0	16.07	17.61	17.64

Test Mode	Antenna	6dB Bandwidth (MHz)		
		5755MHz	---	5795MHz
802.11n HT40	Chain0	36.27	---	35.66
802.11ac VHT40	Chain0	36.36	---	36.42

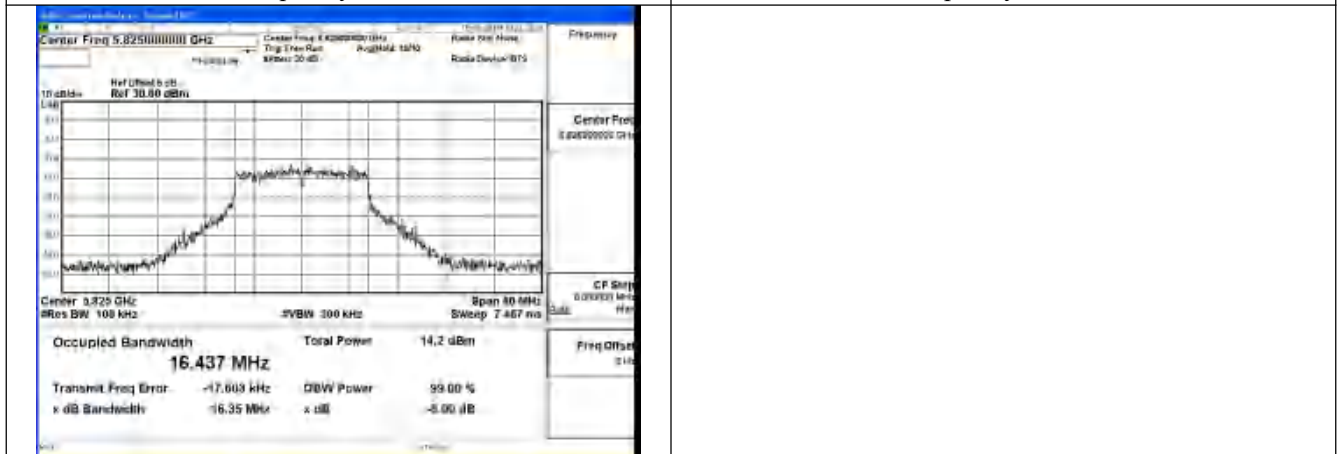
Test Mode	Antenna	6dB Bandwidth (MHz)		
		5775MHz	---	---
802.11ac VHT80	Chain0	76.36	---	---

Test Mode: 802.11a



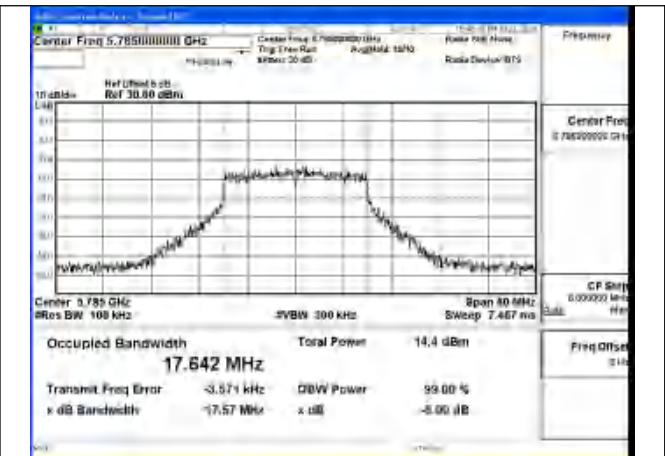
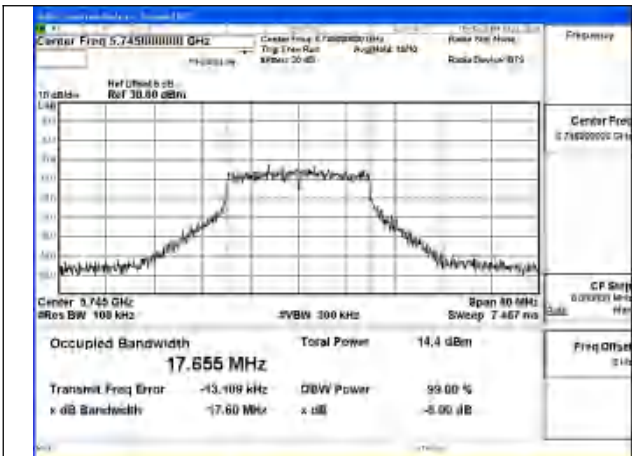
Mode:802.11a Frequency:5745MHz Ant:Chain0

Mode:802.11a Frequency:5785MHz Ant:Chain0



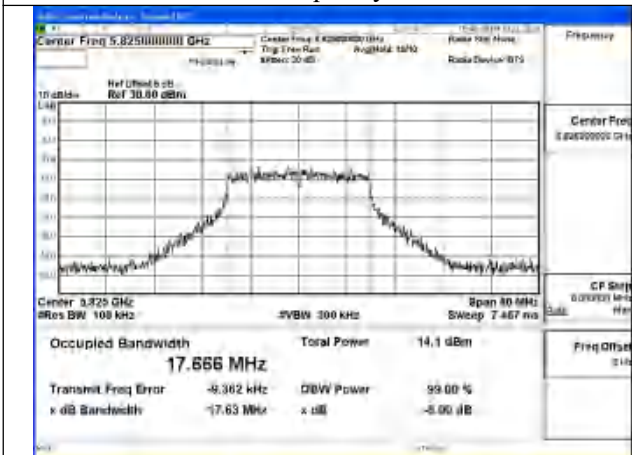
Mode:802.11a Frequency:5825MHz Ant:Chain0

Test Mode: 802.11n HT20



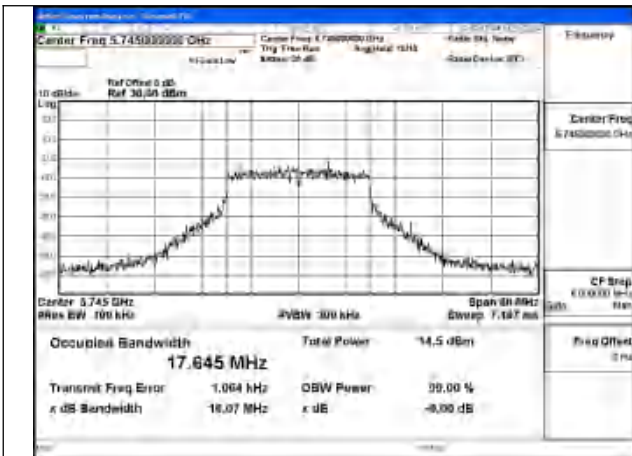
Mode:802.11n HT20 Frequency:5745MHz Ant:Chain0

Mode:802.11n HT20 Frequency:5785MHz Ant:Chain0

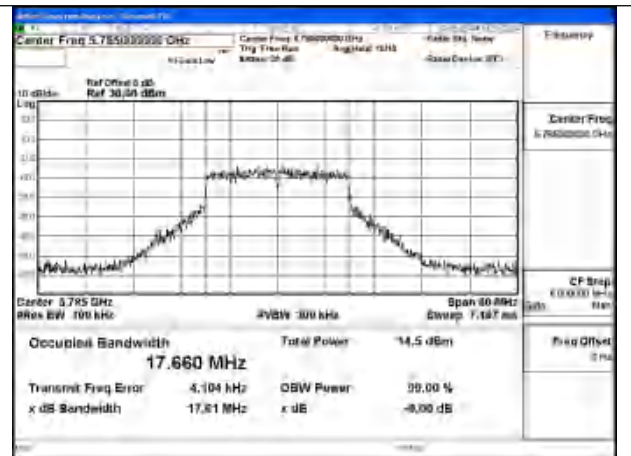


Mode:802.11n HT20 Frequency:5825MHz Ant:Chain0

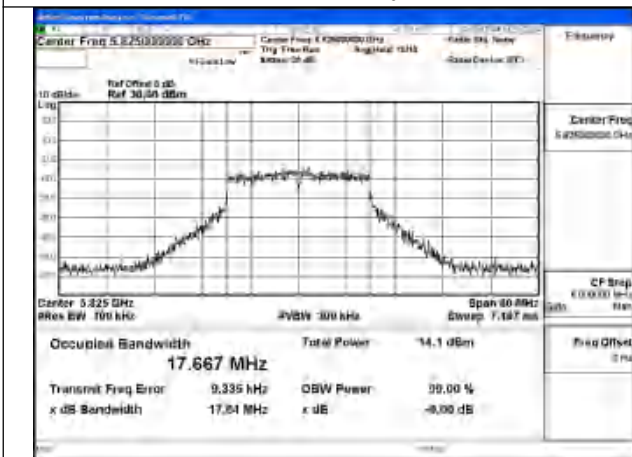
Test Mode: 802.11ac VHT20



Mode:802.11ac VHT20 Frequency:5745MHz  
Ant:Chain0

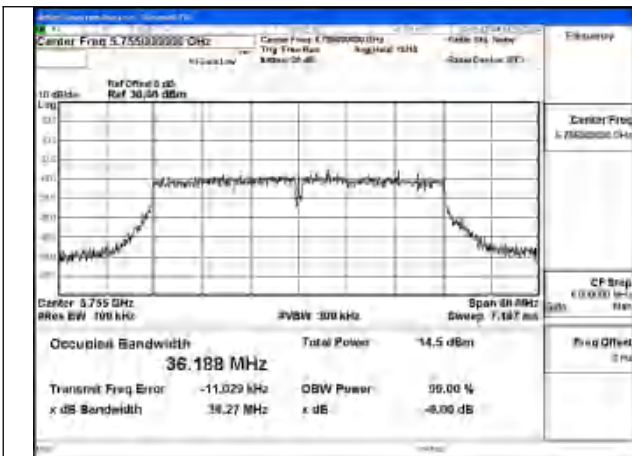


Mode:802.11ac VHT20 Frequency:5785MHz  
Ant:Chain0

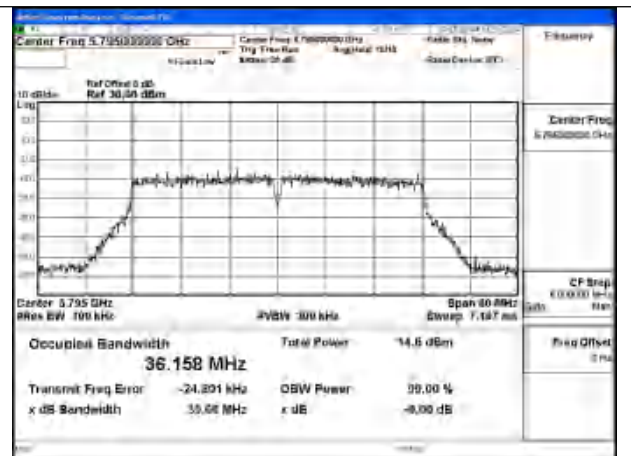


Mode:802.11ac VHT20 Frequency:5825MHz  
Ant:Chain0

Test Mode: 802.11n HT40

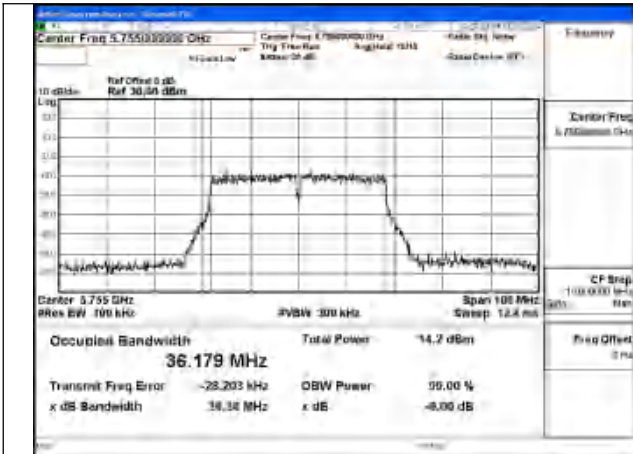


Mode:802.11n HT40 Frequency:5755MHz Ant:Chain0

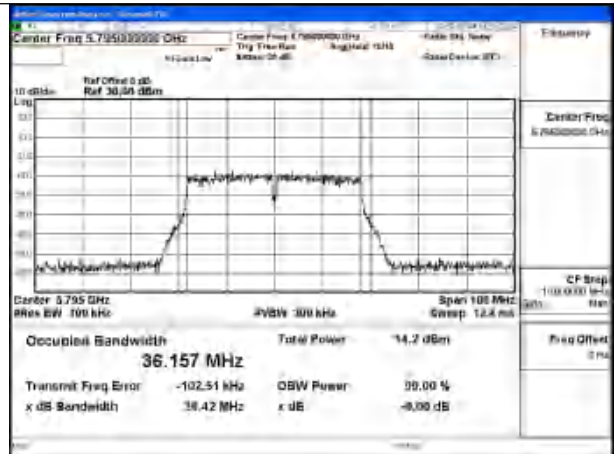


Mode:802.11n HT40 Frequency:5795MHz Ant:Chain0

Test Mode: 802.11ac VHT40

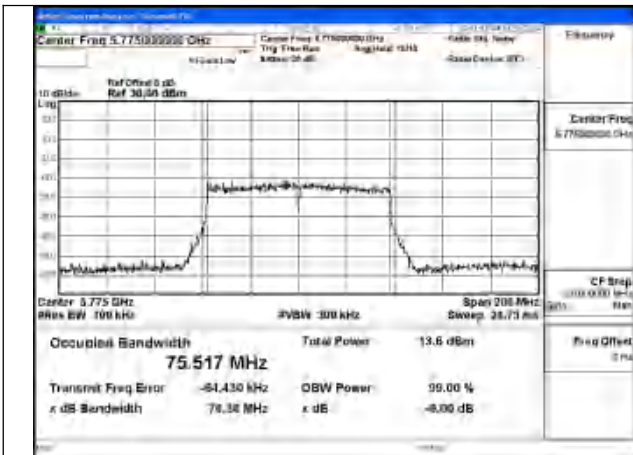


Mode:802.11ac VHT40 Frequency:5755MHz  
 Ant:Chain0



Mode:802.11ac VHT40 Frequency:5795MHz  
 Ant:Chain0

Test Mode: 802.11ac VHT80



Mode:802.11ac VHT80 Frequency:5775MHz  
 Ant:Chain0



### Transmitter Power Spectral Density

Offset 8dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Tones	5745MHz		5785MHz		5825MHz	
			Correction Factor (dB)	Power Density (dBm/500KHz)	Correction Factor (dB)	Power Density (dBm/500KHz)	Correction Factor (dB)	Power Density (dBm/500KHz)
802.11a	Chain0	NA	0	-1.137	0	-1.325	0	-1.928
802.11n HT20	Chain0	NA	0	-1.160	0	-1.402	0	-2.025
802.11ac VHT20	Chain0	NA	0	-1.394	0	-1.604	0	-2.208

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

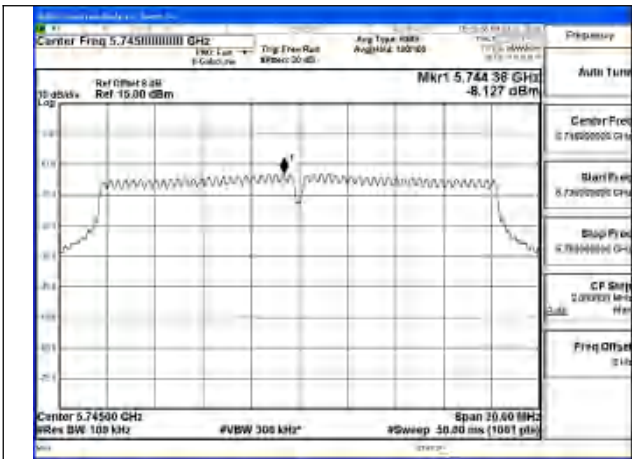
Test Mode	Antenna	Tones	5755MHz		---		5795MHz	
			Correction Factor (dB)	Power Density (dBm/500KHz)	Correction Factor (dB)	Power Density (dBm/500KHz)	Correction Factor (dB)	Power Density (dBm/500KHz)
802.11n HT40	Chain0	NA	0	-4.230	---	---	0	-4.497
802.11ac VHT40	Chain0	NA	0	-4.854	---	---	0	-4.885

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

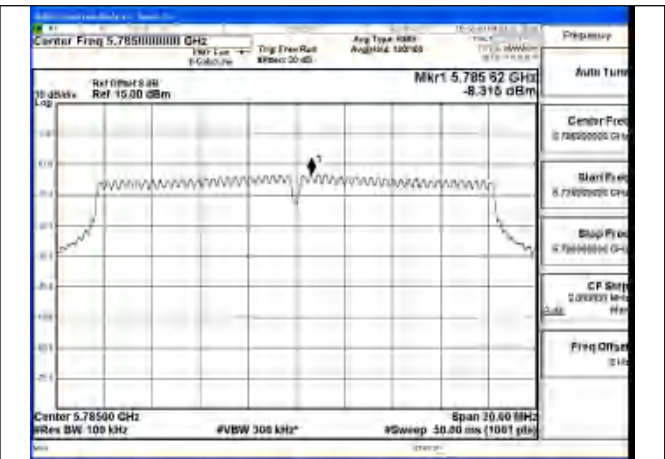
Test Mode	Antenna	Tones	5775MHz		---		---	
			Correction Factor (dB)	Power Density (dBm/500KHz)	Correction Factor (dB)	Power Density (dBm/500KHz)	Correction Factor (dB)	Power Density (dBm/500KHz)
802.11ac VHT80	Chain0	NA	0.16	-7.105	---	---	---	---

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

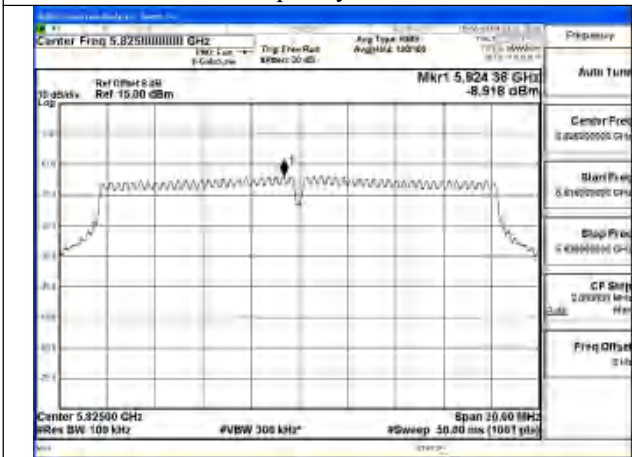
Test Mode: 802.11a



Mode:802.11a Frequency:5745MHz Ant:Chain0



Mode:802.11a Frequency:5785MHz Ant:Chain0

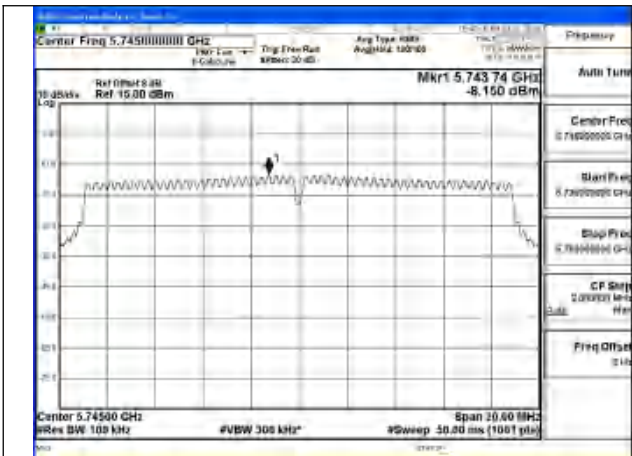


Mode:802.11a Frequency:5825MHz Ant:Chain0

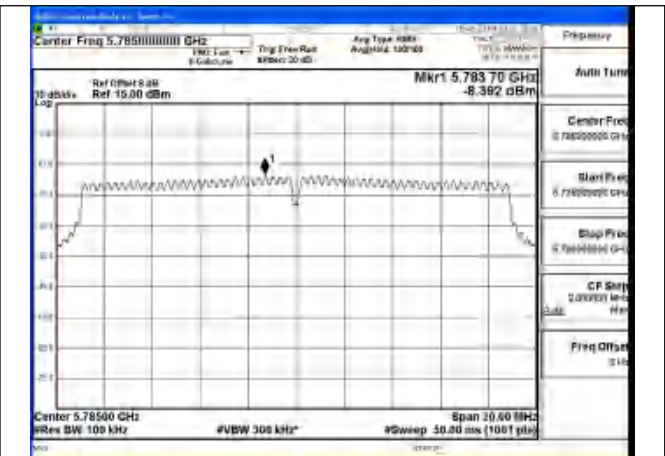




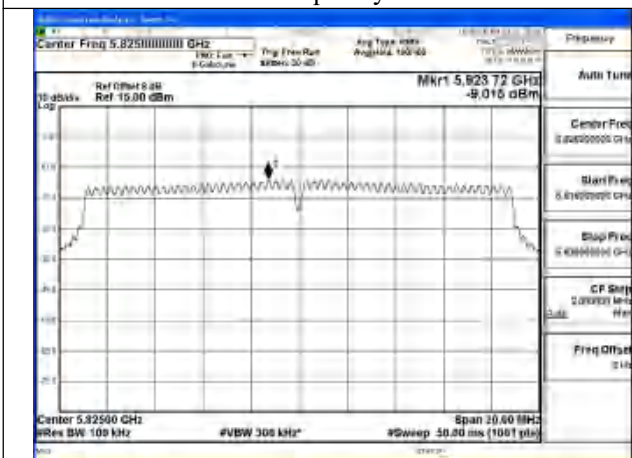
Test Mode: 802.11n HT20



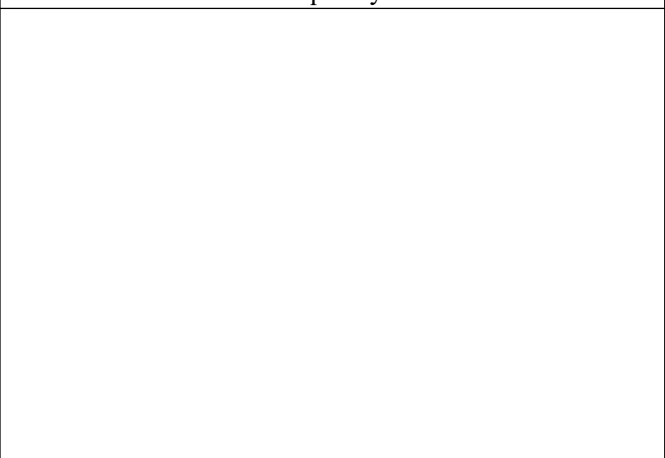
Mode:802.11n HT20 Frequency:5745MHz Ant:Chain0



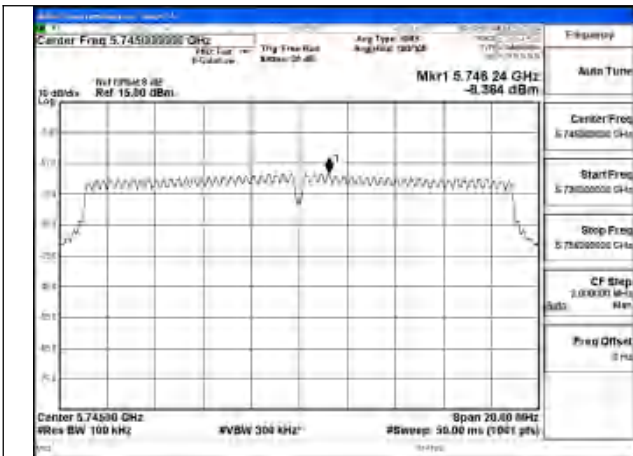
Mode:802.11n HT20 Frequency:5785MHz Ant:Chain0



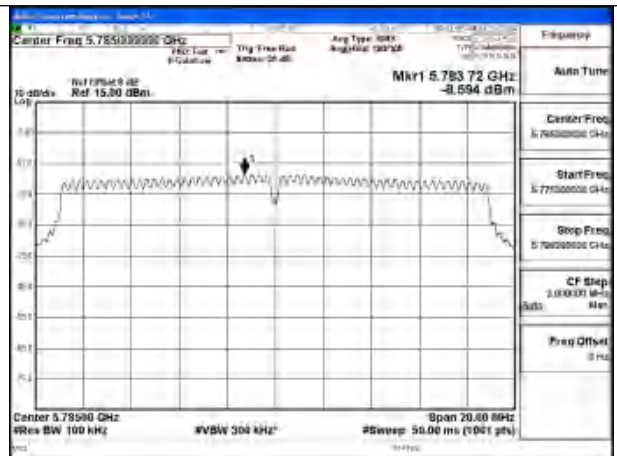
Mode:802.11n HT20 Frequency:5825MHz Ant:Chain0



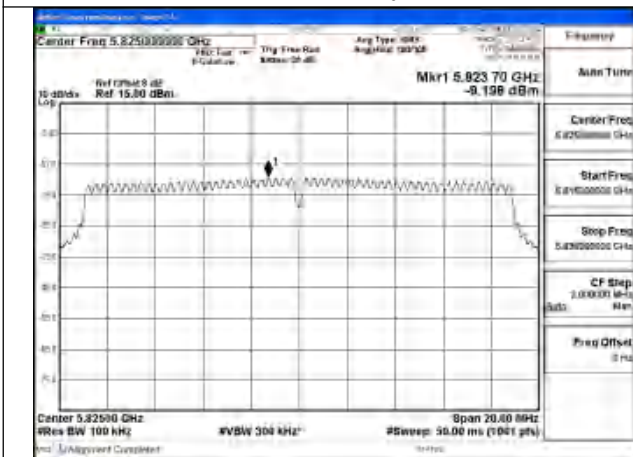
Test Mode: 802.11ac VHT20



Mode:802.11ac VHT20 Frequency:5745MHz  
Ant:Chain0

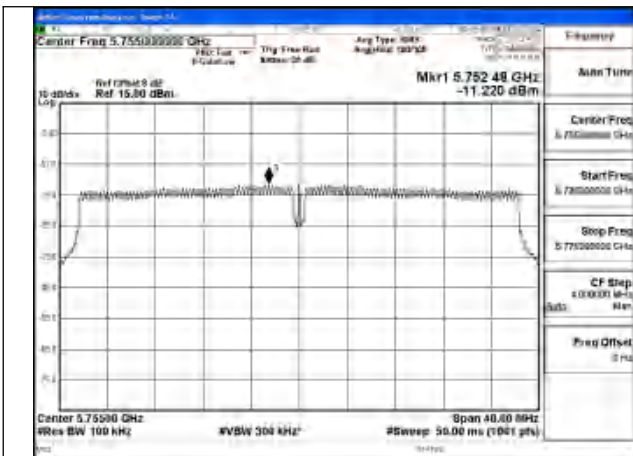


Mode:802.11ac VHT20 Frequency:5785MHz  
Ant:Chain0

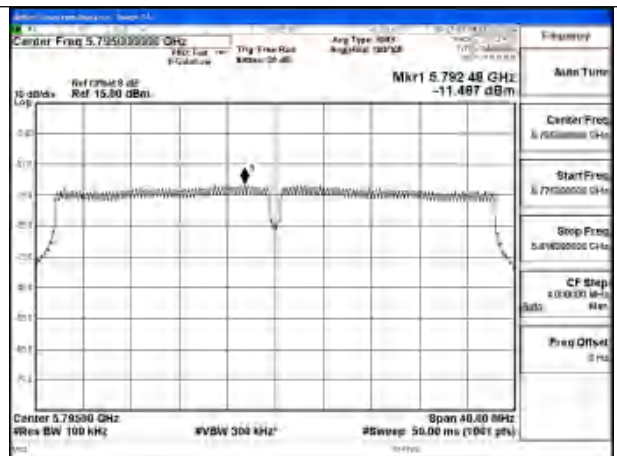


Mode:802.11ac VHT20 Frequency:5825MHz  
Ant:Chain0

Test Mode: 802.11n HT40

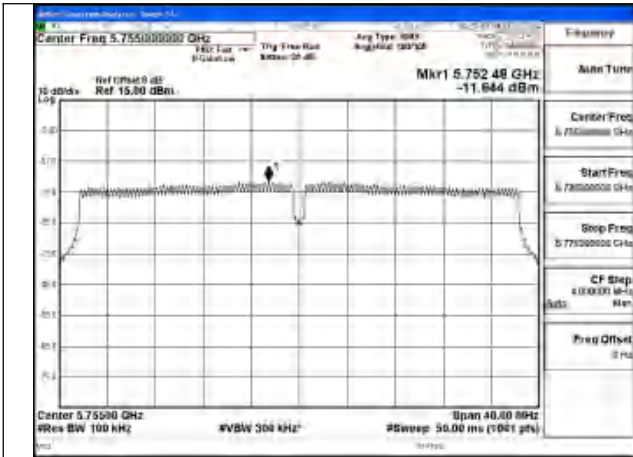


Mode:802.11n HT40 Frequency:5755MHz Ant:Chain0

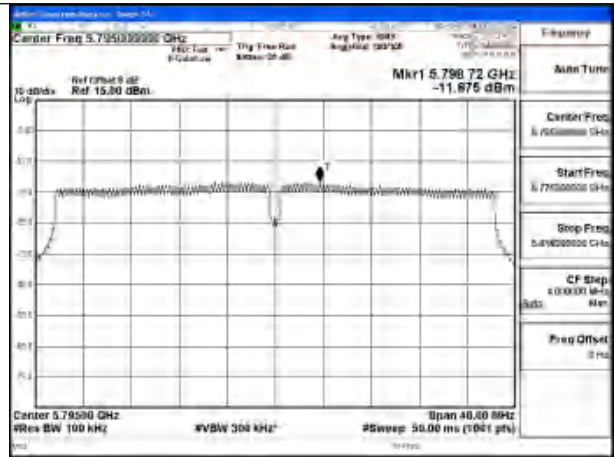


Mode:802.11n HT40 Frequency:5795MHz Ant:Chain0

Test Mode: 802.11ac VHT40

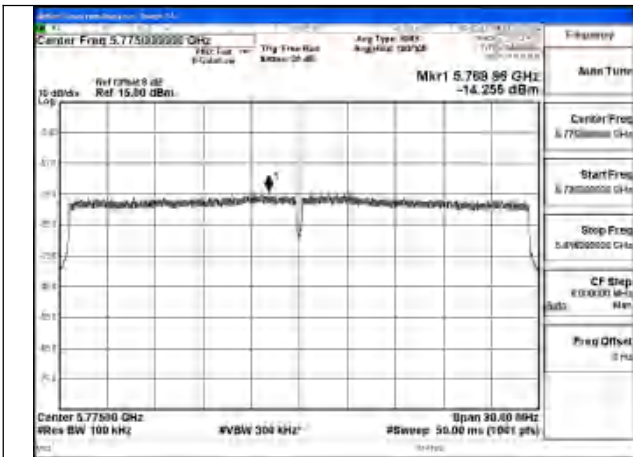


Mode:802.11ac VHT40 Frequency:5755MHz  
 Ant:Chain0



Mode:802.11ac VHT40 Frequency:5795MHz  
 Ant:Chain0

Test Mode: 802.11ac VHT80



Mode:802.11ac VHT80 Frequency:5775MHz  
 Ant:Chain0

