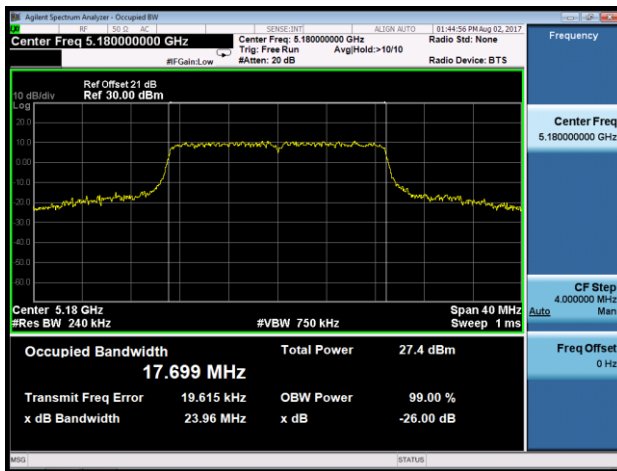
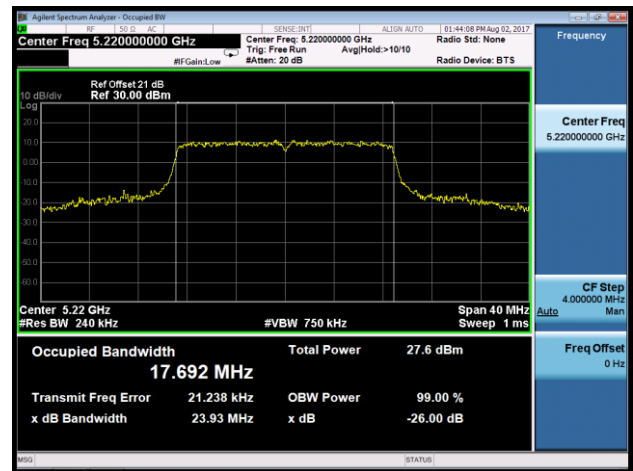
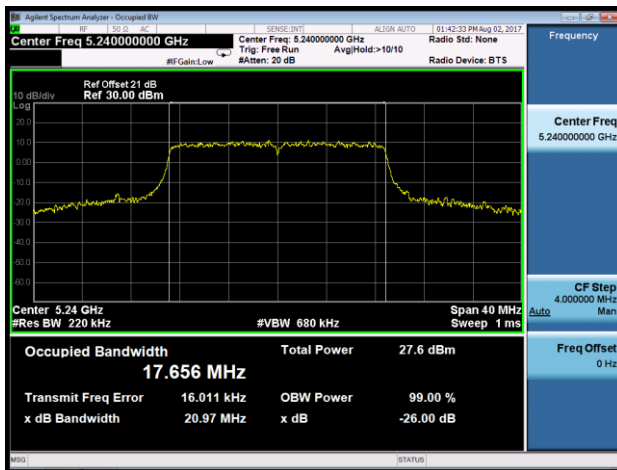
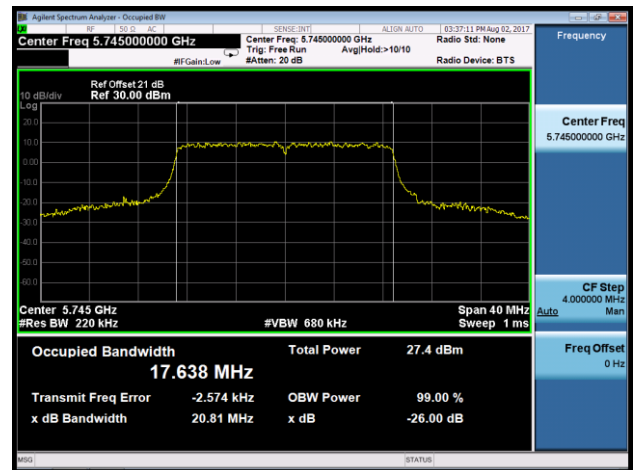
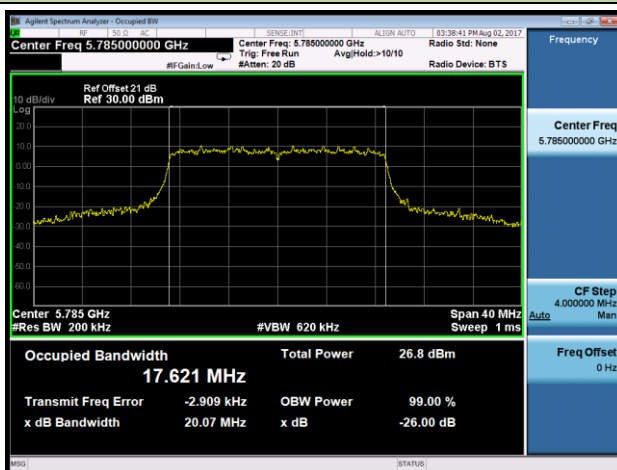
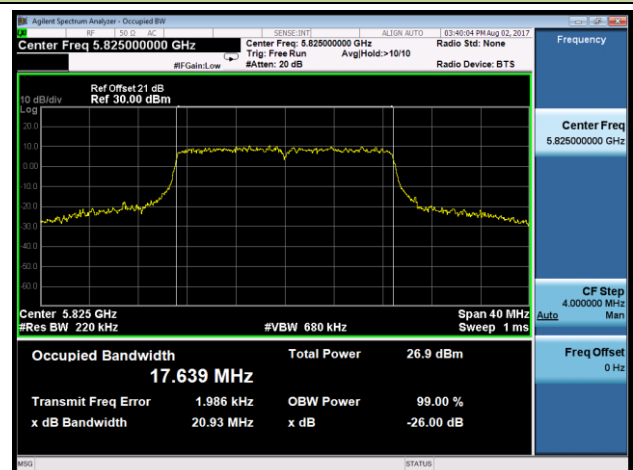
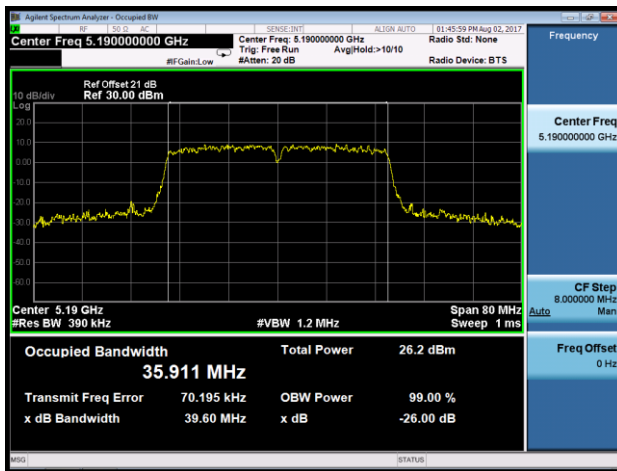
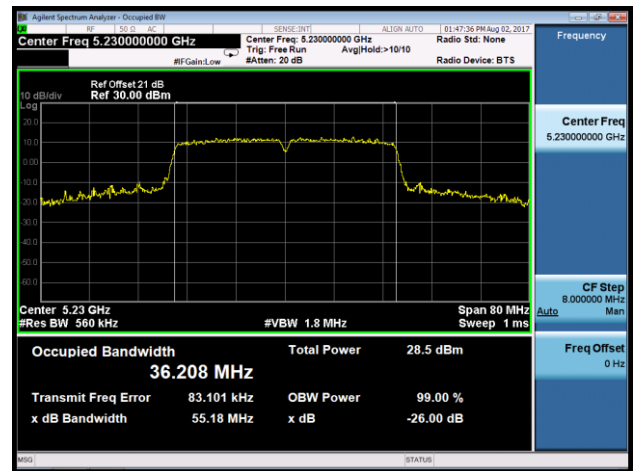
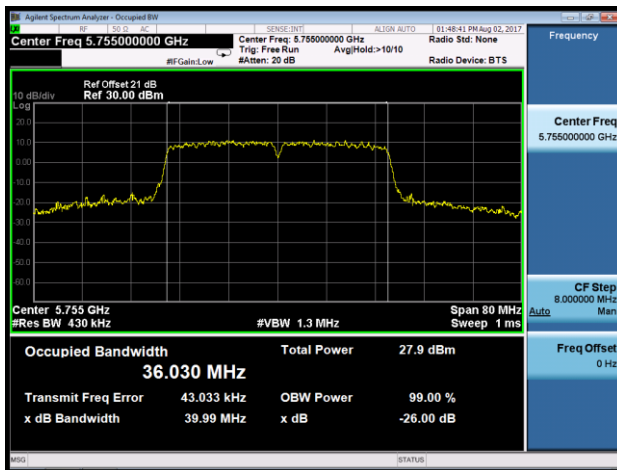
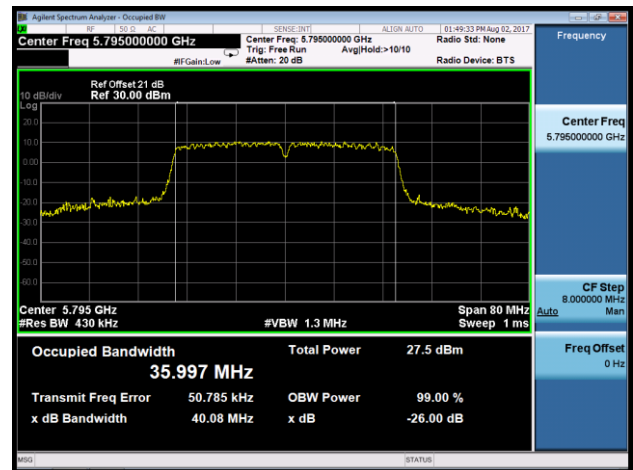
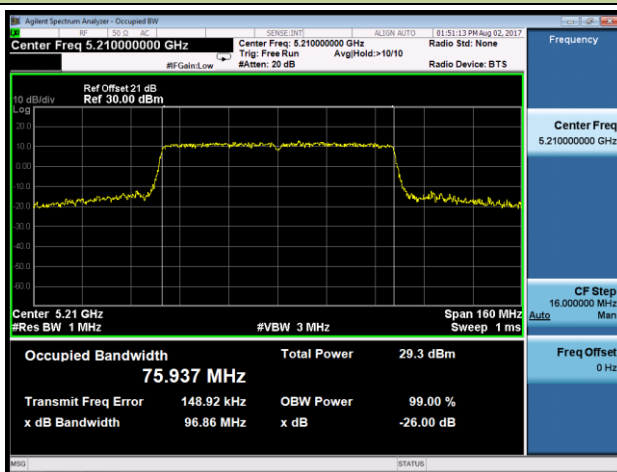
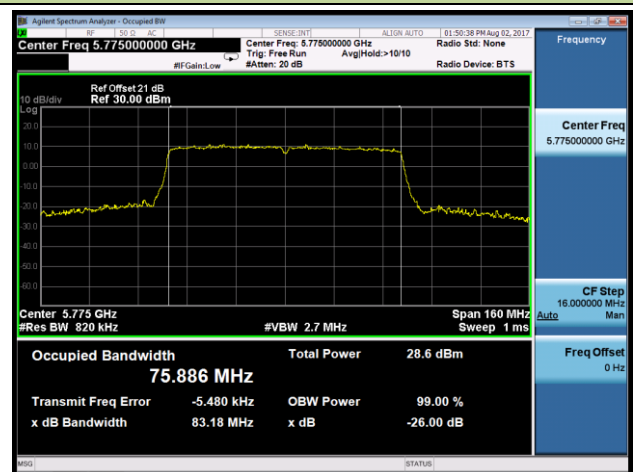
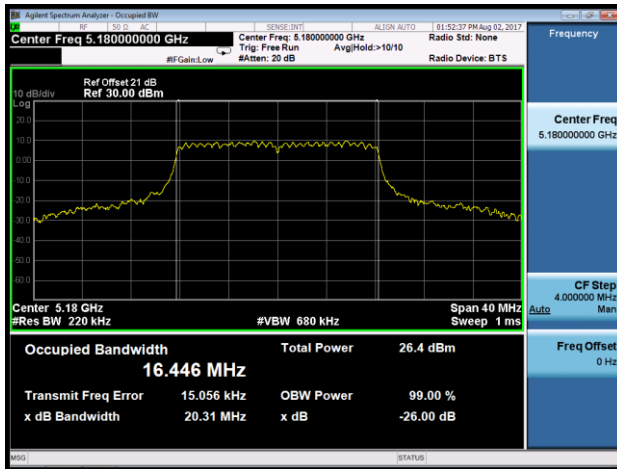
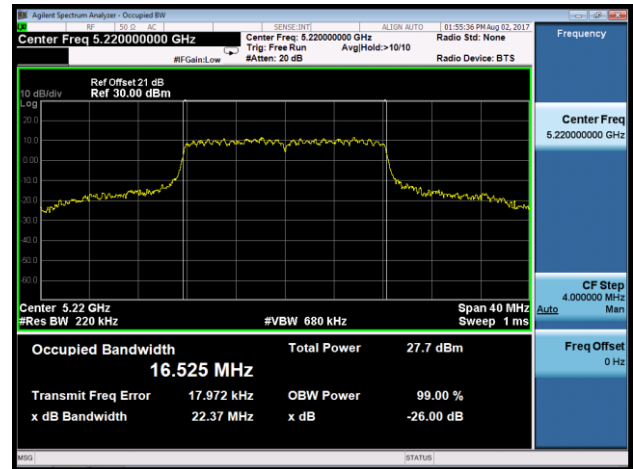
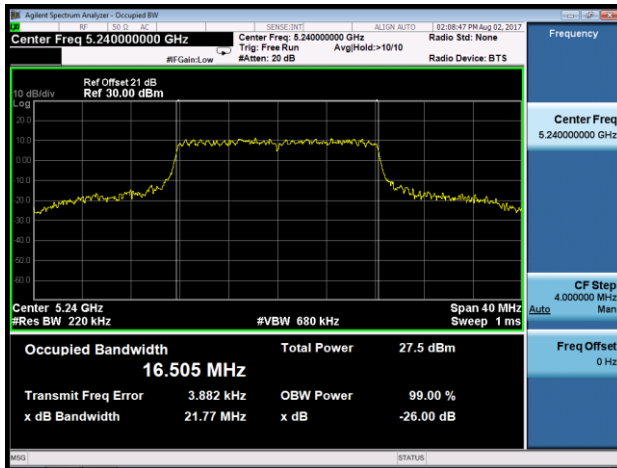
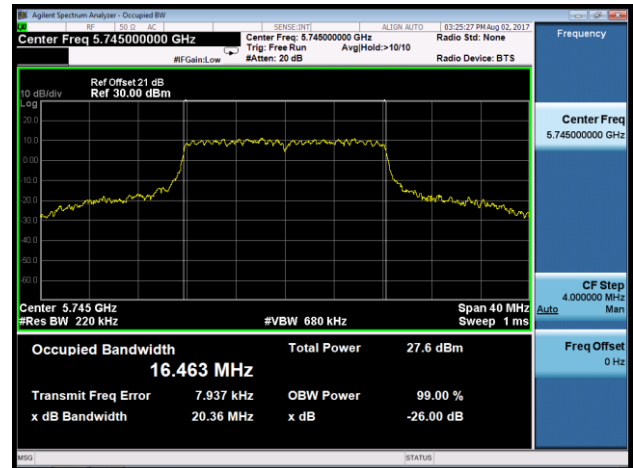
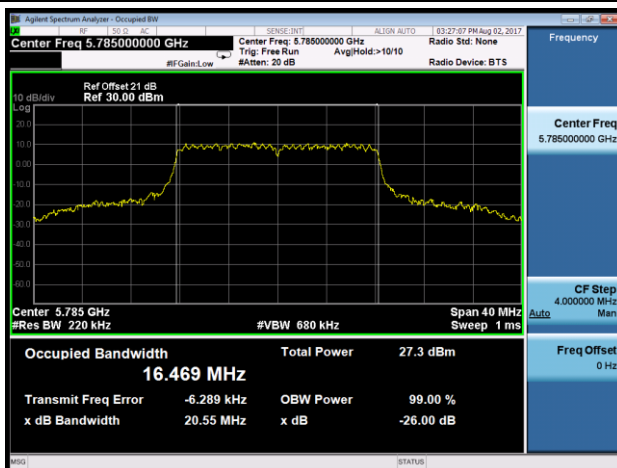
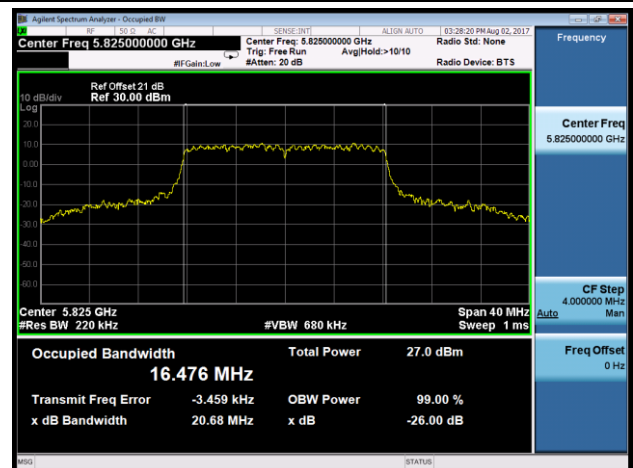
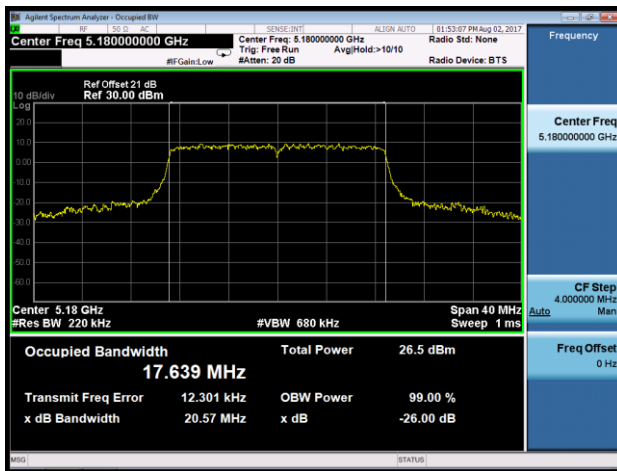
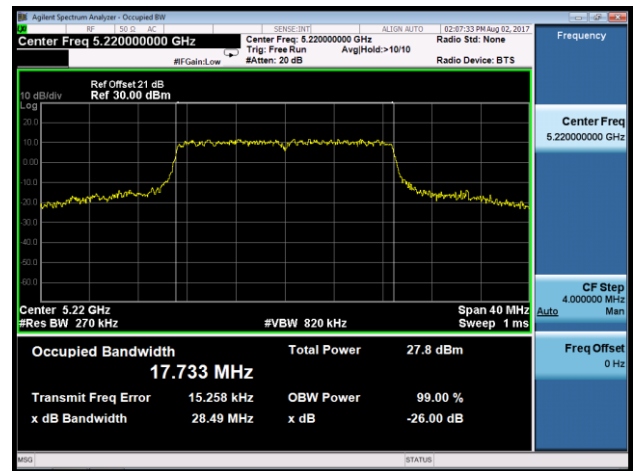
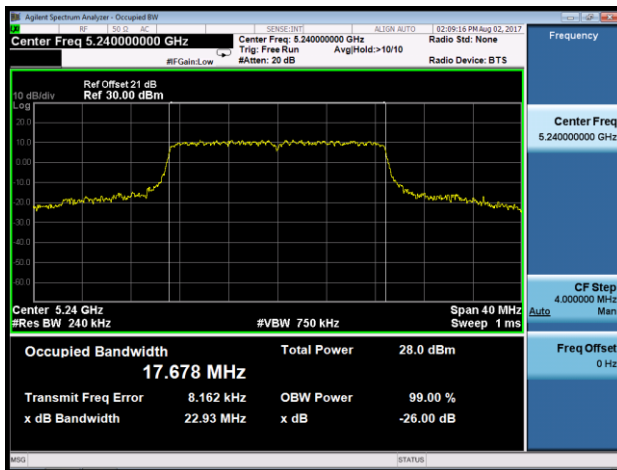
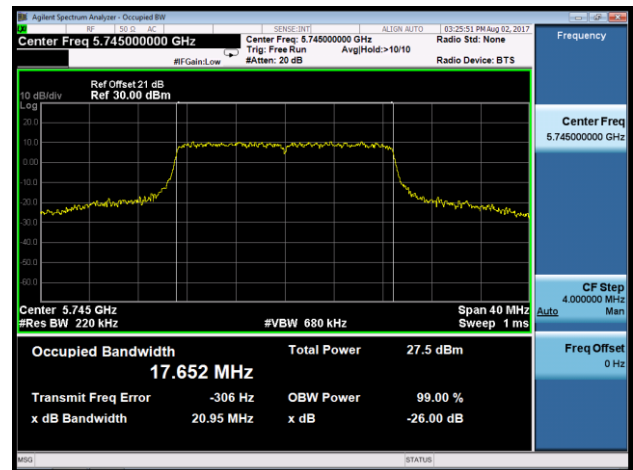
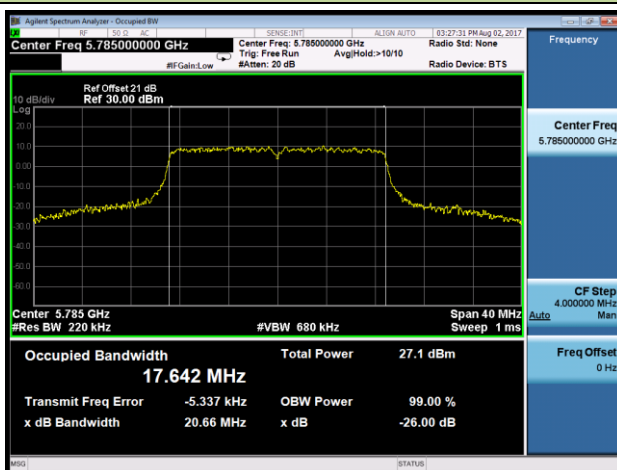
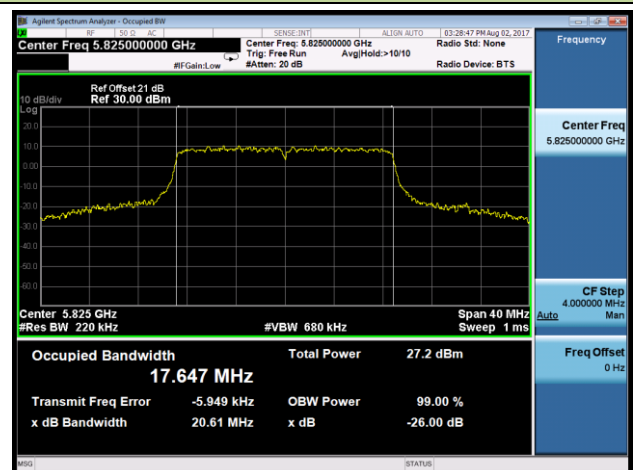
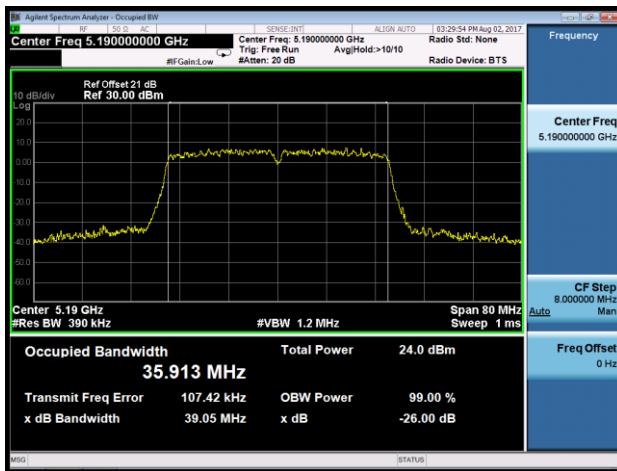
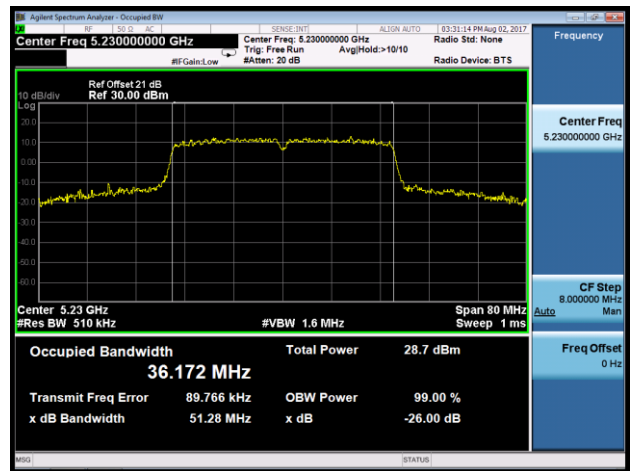
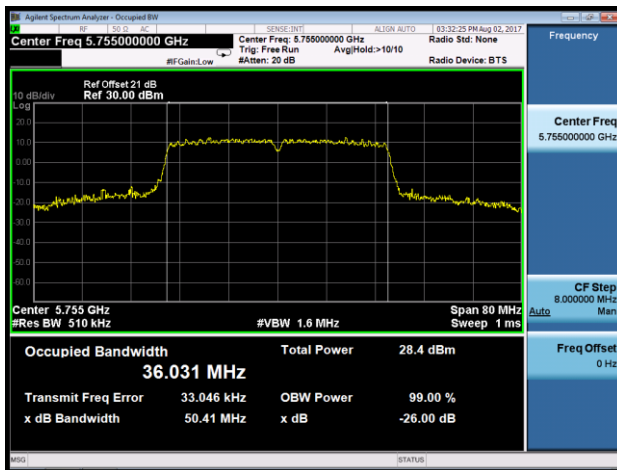
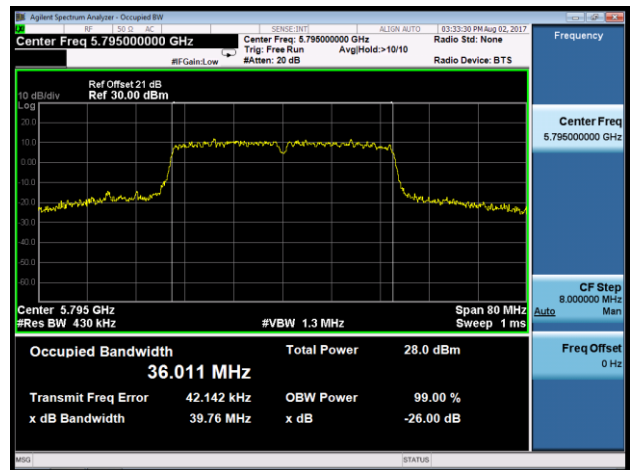


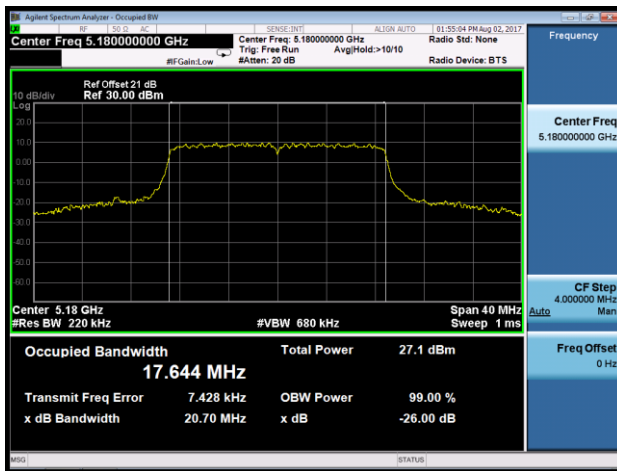
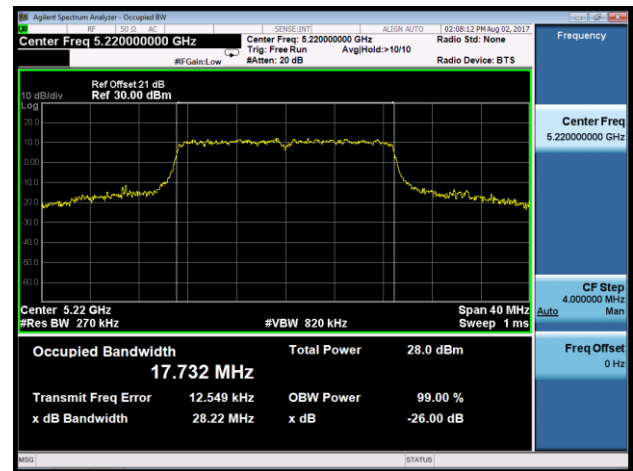
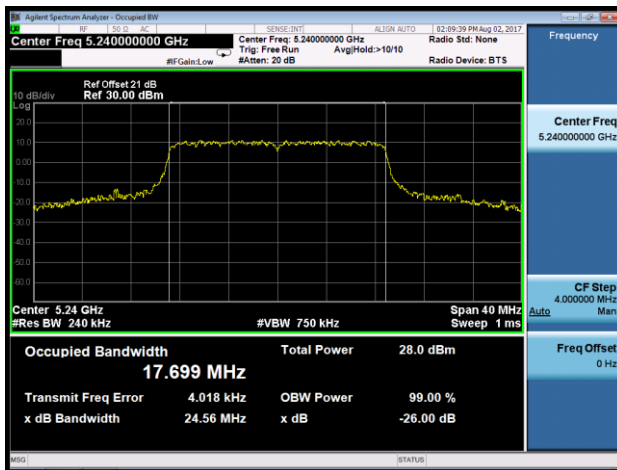
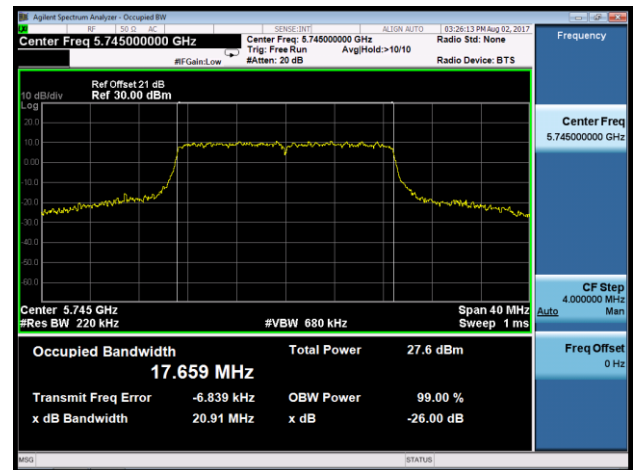
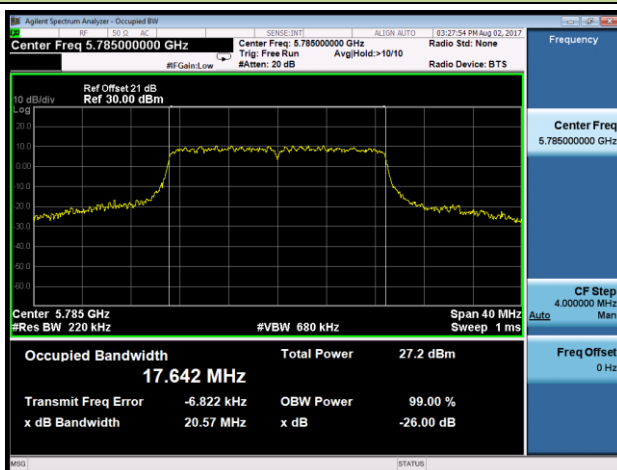
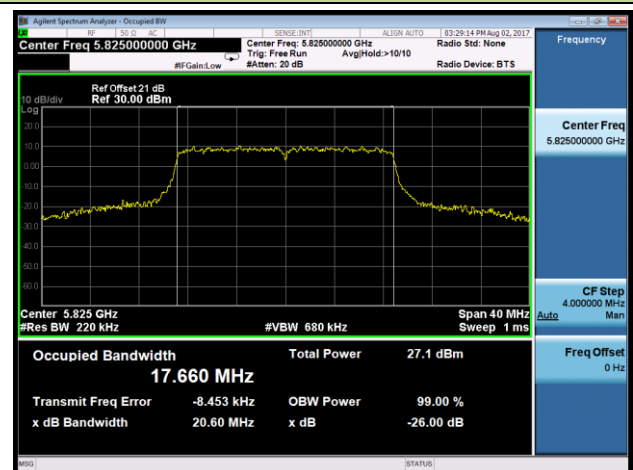
802.11ac-VHT20 26dB Bandwidth & 99% Bandwidth - Ant 2
Channel36 (5180MHz)

Channel 44 (5220MHz)

Channel48 (5240MHz)

Channel149 (5745MHz)

Channel157 (5785MHz)

Channel165 (5825MHz)


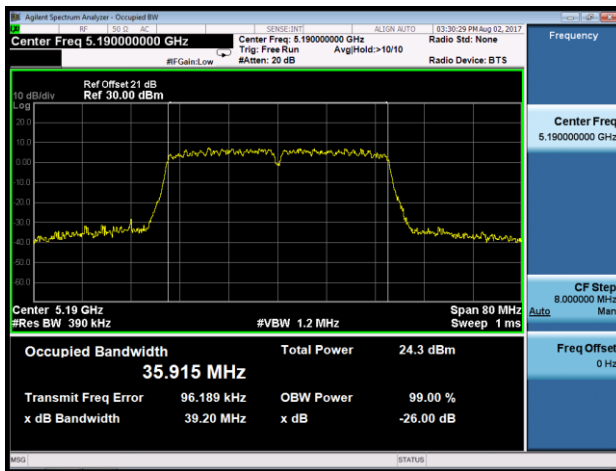
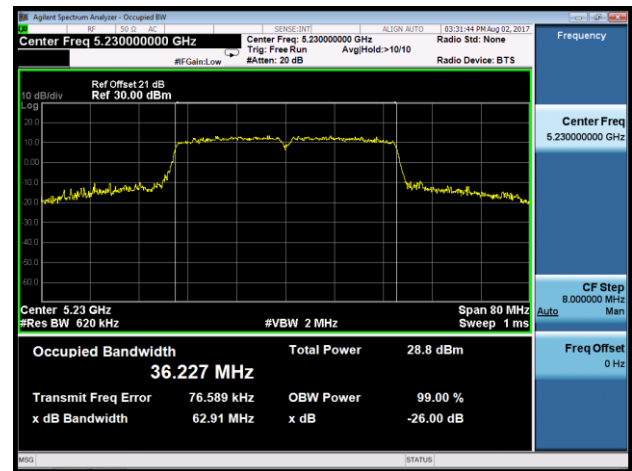
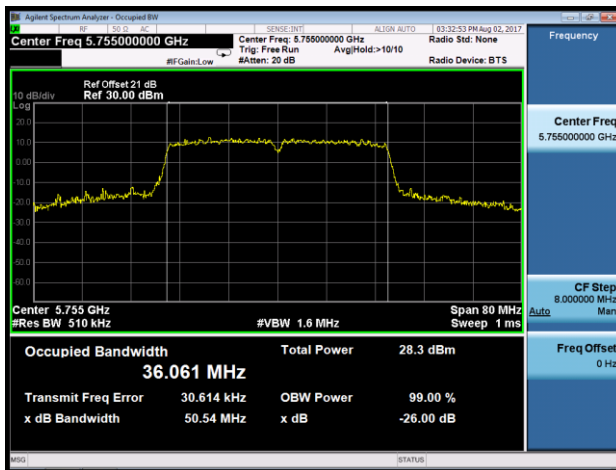
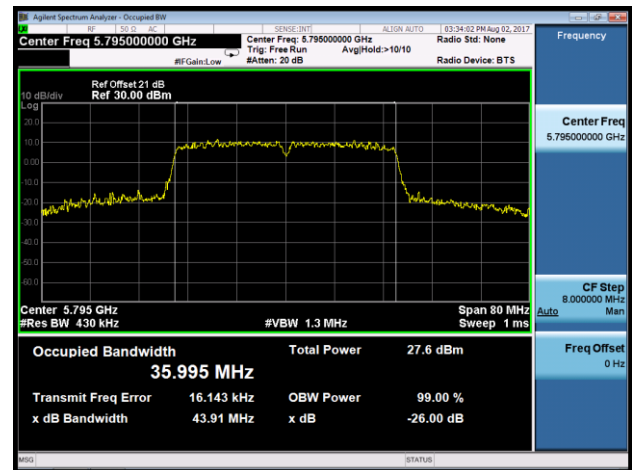
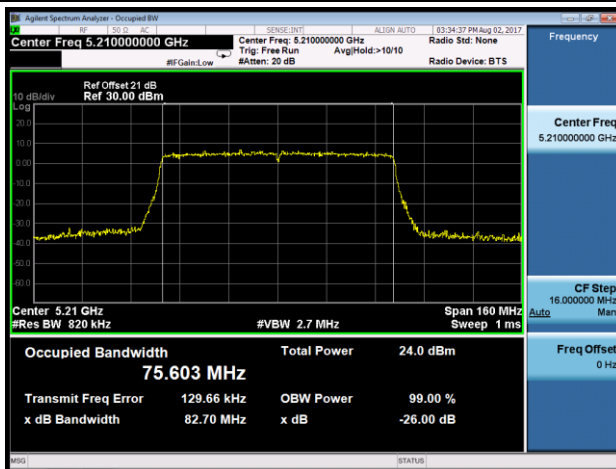
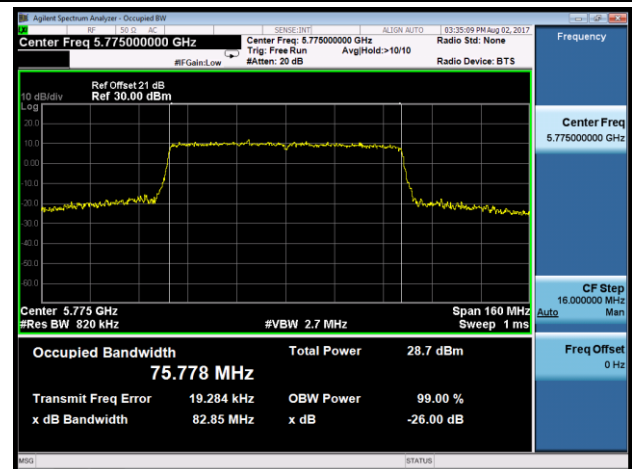
802.11ac-VHT40 26dB Bandwidth & 99% Bandwidth - Ant 2
Channel38 (5190MHz)

Channel46 (5230MHz)

Channel151 (5755MHz)

Channel159 (5795MHz)

802.11ac-VHT80 26dB Bandwidth & 99% Bandwidth - Ant 2
Channel42 (5210MHz)

Channel155 (5775MHz)


802.11a 26dB Bandwidth & 99% Bandwidth - Ant 2 / Ant 1 + 2
Channel36 (5180MHz)

Channel 44 (5220MHz)

Channel48 (5240MHz)

Channel149 (5745MHz)

Channel157 (5785MHz)

Channel165 (5825MHz)


802.11n-HT20 26dB Bandwidth & 99% Bandwidth - Ant 2 / Ant 1 + 2
Channel36 (5180MHz)

Channel 44 (5220MHz)

Channel48 (5240MHz)

Channel149 (5745MHz)

Channel157 (5785MHz)

Channel165 (5825MHz)


802.11n-HT4026dB Bandwidth & 99% Bandwidth - Ant 2 / Ant 1 + 2
Channel38 (5190MHz)

Channel46 (5230MHz)

Channel151 (5755MHz)

Channel159 (5795MHz)


802.11ac-VHT20 26dB Bandwidth & 99% Bandwidth - Ant 2 / Ant 1 + 2
Channel36 (5180MHz)

Channel 44 (5220MHz)

Channel48 (5240MHz)

Channel149 (5745MHz)

Channel157 (5785MHz)

Channel165 (5825MHz)


802.11ac-VHT40 26dB Bandwidth & 99% Bandwidth - Ant 2 / Ant 1 + 2
Channel38 (5190MHz)

Channel46 (5230MHz)

Channel151 (5755MHz)

Channel159 (5795MHz)

802.11ac-VHT80 26dB Bandwidth & 99% Bandwidth - Ant 2 / Ant 1 + 2
Channel42 (5210MHz)

Channel155 (5775MHz)


7.3. 6dB Bandwidth Measurement

7.3.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

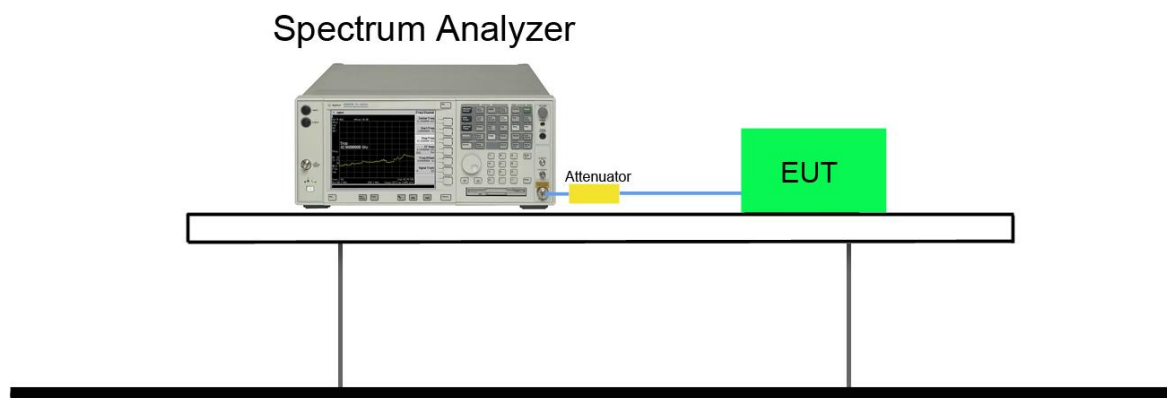
7.3.2. Test Procedure used

KDB 789033 D02v01r04–Section C.2

7.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. $VBW \geq 3 \times RBW$.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3.4. Test Setup



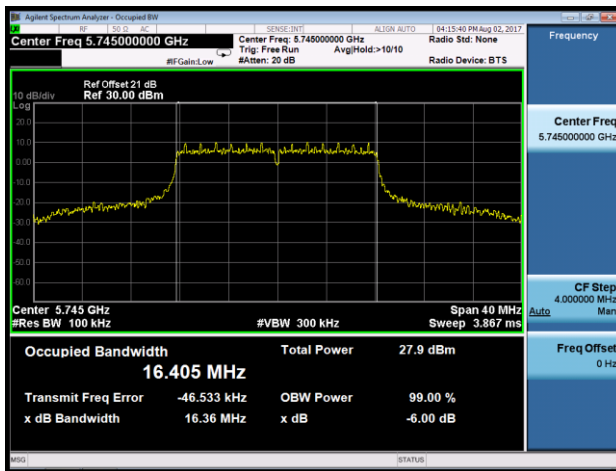
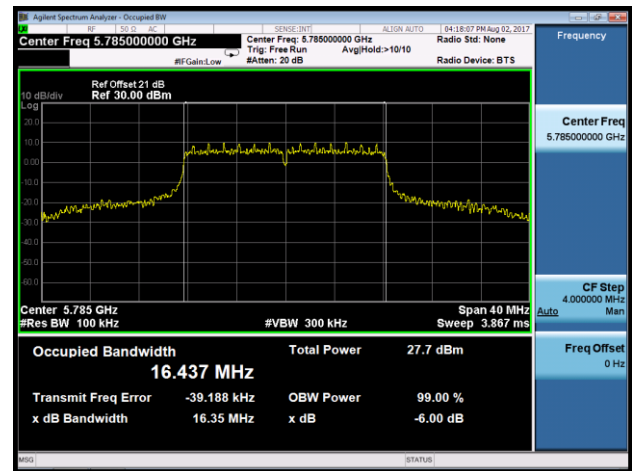
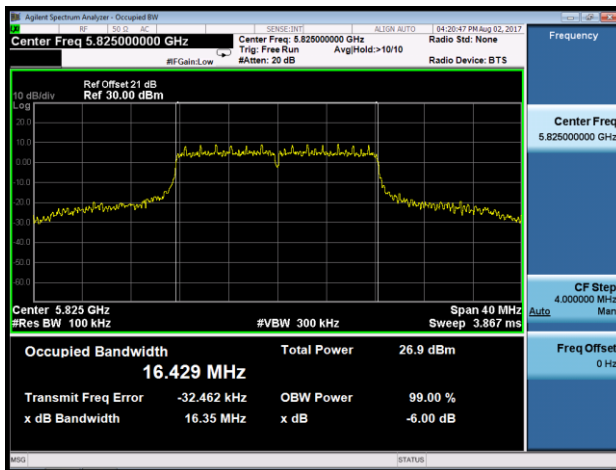
7.3.5. Test Result

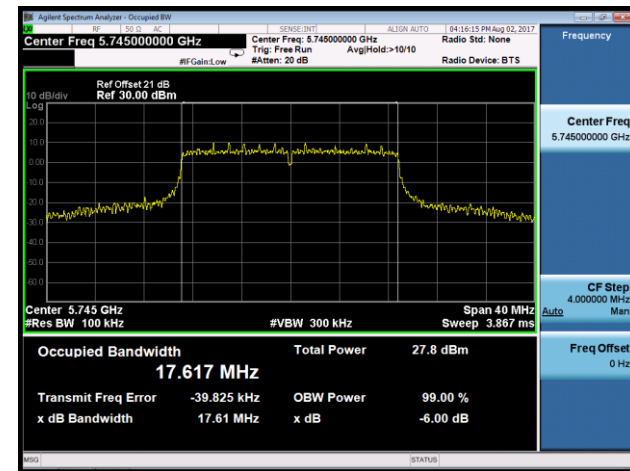
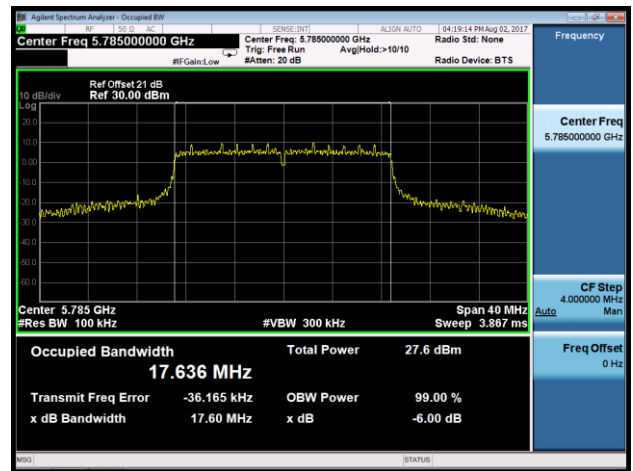
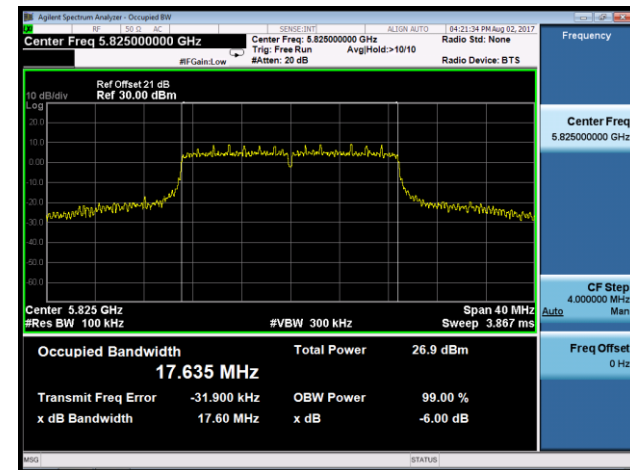
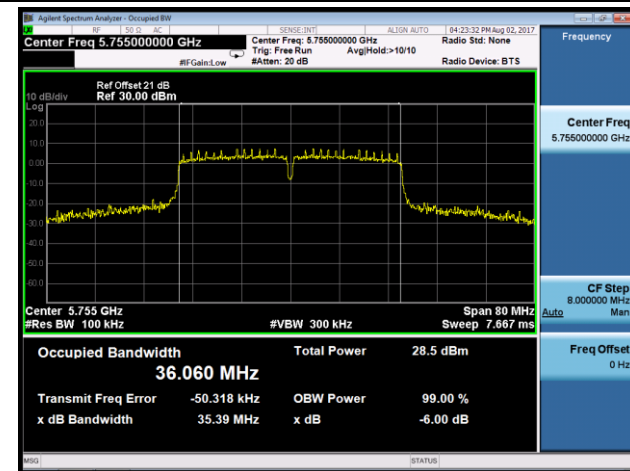
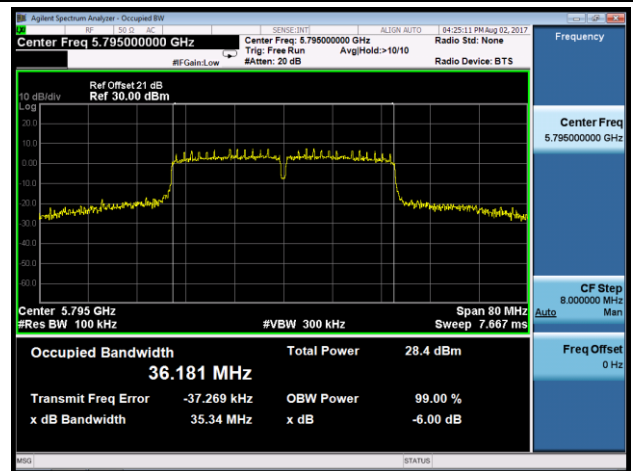
Product	AC220i Wi-Fi AP ID omni antenna US	Temperature	24°C
Test Engineer	Kevin Ker	Relative Humidity	59%
Test Site	SR2	Test Date	2017/08/02

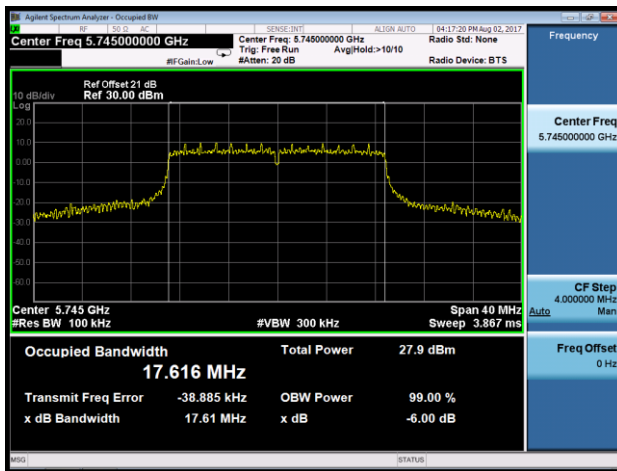
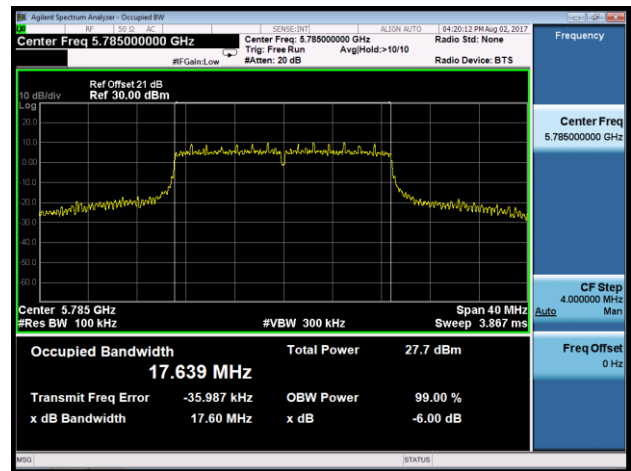
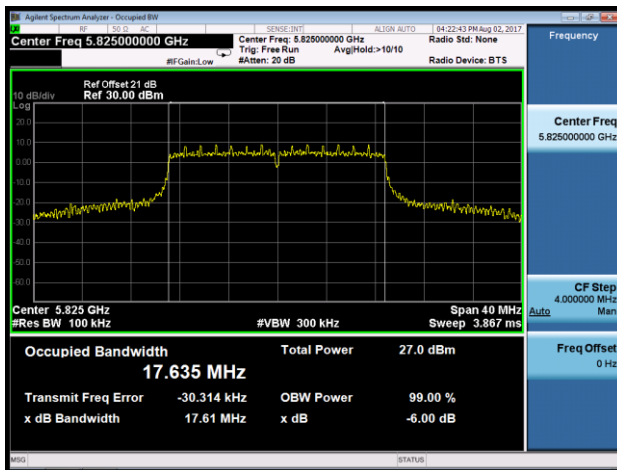
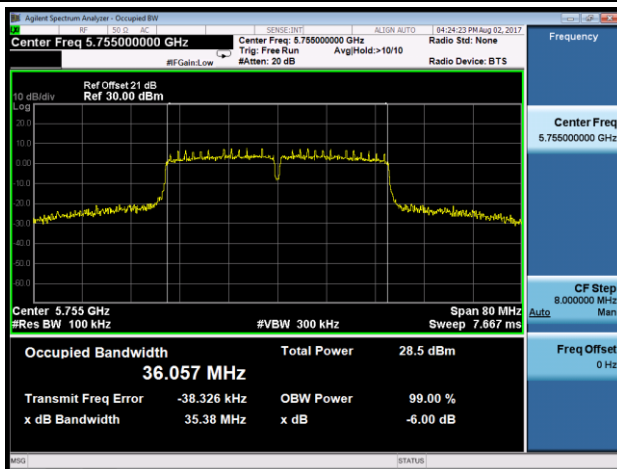
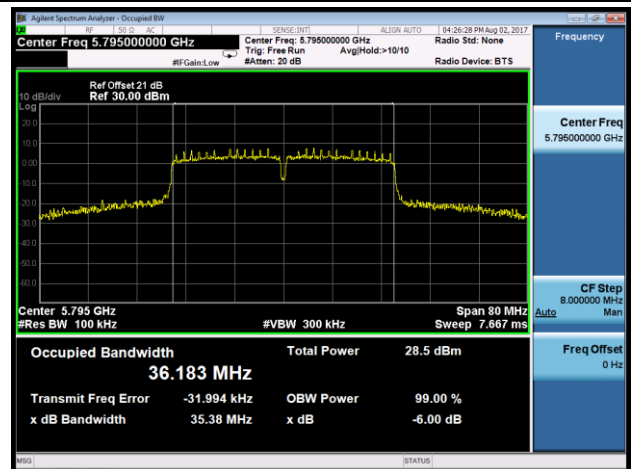
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth(MHz)	Limit (MHz)	Result
Ant 1						
802.11a	6Mbps	149	5745	16.36	≥0.5	Pass
802.11a	6Mbps	157	5785	16.35	≥0.5	Pass
802.11a	6Mbps	165	5825	16.35	≥0.5	Pass
802.11n-HT20	MCS0	149	5745	17.61	≥0.5	Pass
802.11n-HT20	MCS0	157	5785	17.60	≥0.5	Pass
802.11n-HT20	MCS0	165	5825	17.60	≥0.5	Pass
802.11n-HT40	MCS0	151	5755	35.39	≥0.5	Pass
802.11n-HT40	MCS0	159	5795	35.34	≥0.5	Pass
802.11ac-VHT20	MCS0	149	5745	17.61	≥0.5	Pass
802.11ac-VHT20	MCS0	157	5785	17.60	≥0.5	Pass
802.11ac-VHT20	MCS0	165	5825	17.61	≥0.5	Pass
802.11ac-VHT40	MCS0	151	5755	35.38	≥0.5	Pass
802.11ac-VHT40	MCS0	159	5795	35.38	≥0.5	Pass
802.11ac-VHT80	MCS0	155	5775	75.99	≥0.5	Pass

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth(MHz)	Limit (MHz)	Result
Ant 2						
802.11a	6Mbps	149	5745	16.36	≥0.5	Pass
802.11a	6Mbps	157	5785	16.36	≥0.5	Pass
802.11a	6Mbps	165	5825	16.37	≥0.5	Pass
802.11n-HT20	MCS0	149	5745	17.59	≥0.5	Pass
802.11n-HT20	MCS0	157	5785	17.60	≥0.5	Pass
802.11n-HT20	MCS0	165	5825	17.60	≥0.5	Pass
802.11n-HT40	MCS0	151	5755	35.37	≥0.5	Pass
802.11n-HT40	MCS0	159	5795	35.37	≥0.5	Pass
802.11ac-VHT20	MCS0	149	5745	17.60	≥0.5	Pass
802.11ac-VHT20	MCS0	157	5785	17.60	≥0.5	Pass
802.11ac-VHT20	MCS0	165	5825	17.60	≥0.5	Pass
802.11ac-VHT40	MCS0	151	5755	35.40	≥0.5	Pass
802.11ac-VHT40	MCS0	159	5795	35.38	≥0.5	Pass
802.11ac-VHT80	MCS0	155	5775	75.97	≥0.5	Pass

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 2 / Ant 1 + 2						
802.11a	6Mbps	149	5745	16.38	≥0.5	Pass
802.11a	6Mbps	157	5785	16.38	≥0.5	Pass
802.11a	6Mbps	165	5825	16.38	≥0.5	Pass
802.11n-HT20	MCS0	149	5745	17.61	≥0.5	Pass
802.11n-HT20	MCS0	157	5785	17.62	≥0.5	Pass
802.11n-HT20	MCS0	165	5825	17.61	≥0.5	Pass
802.11n-HT40	MCS0	151	5755	35.41	≥0.5	Pass
802.11n-HT40	MCS0	159	5795	35.36	≥0.5	Pass
802.11ac-VHT20	MCS0	149	5745	17.61	≥0.5	Pass
802.11ac-VHT20	MCS0	157	5785	17.61	≥0.5	Pass
802.11ac-VHT20	MCS0	165	5825	17.61	≥0.5	Pass
802.11ac-VHT40	MCS0	151	5755	35.44	≥0.5	Pass
802.11ac-VHT40	MCS0	159	5795	36.38	≥0.5	Pass
802.11ac-VHT80	MCS0	155	5775	75.93	≥0.5	Pass

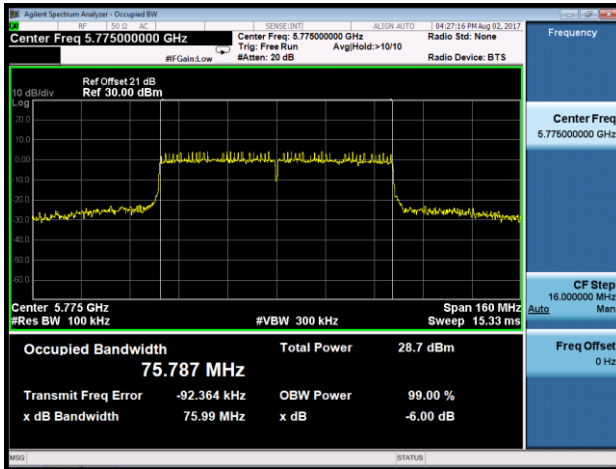
802.11a 6dB Bandwidth - Ant 1
Channel 149 (5745MHz)

Channel 157 (5785MHz)

Channel 165 (5825MHz)


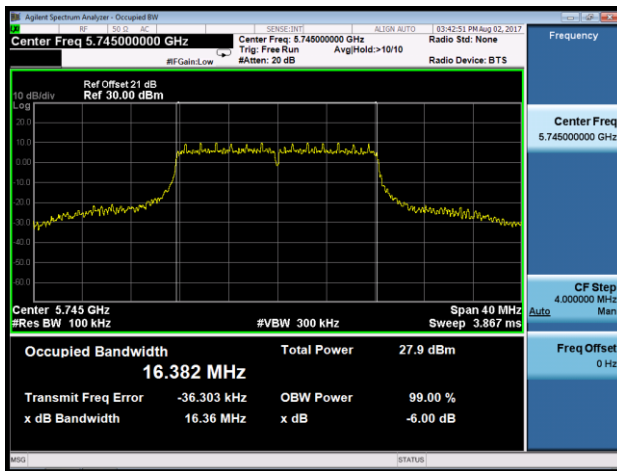
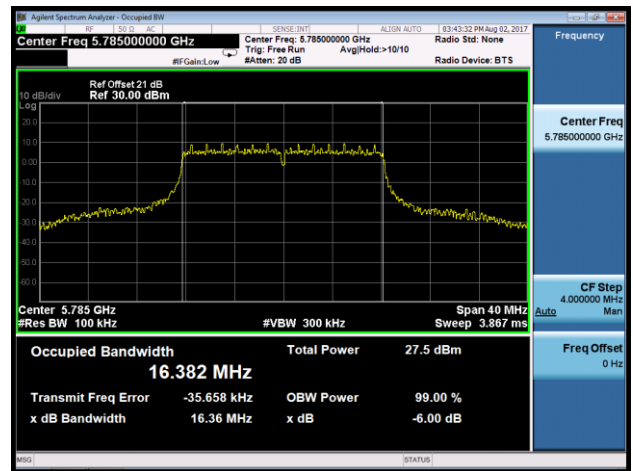
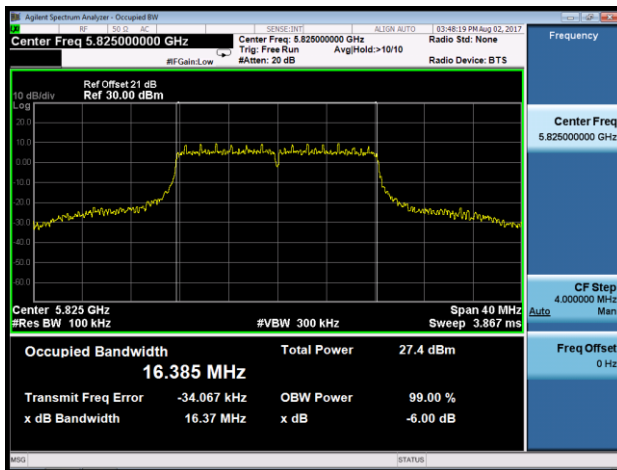
802.11n-HT20 6dB Bandwidth - Ant 1
Channel 149 (5745MHz)

Channel 157 (5785MHz)

Channel 165 (5825MHz)

802.11n-HT40 6dB Bandwidth - Ant 1
Channel 151 (5755MHz)

Channel 159 (5795MHz)


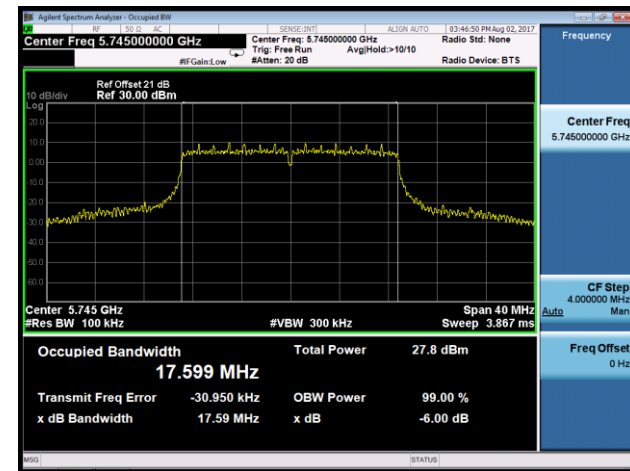
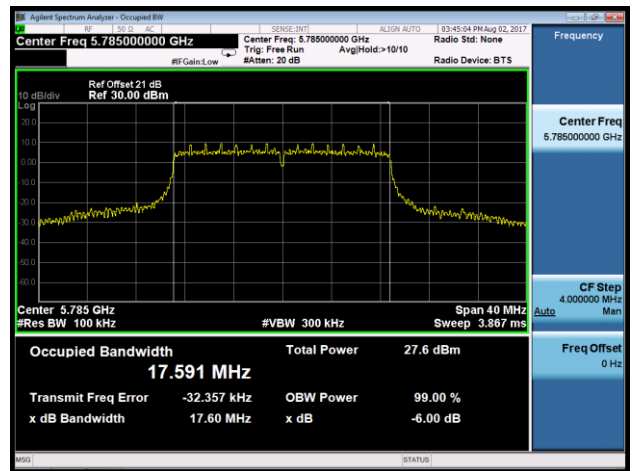
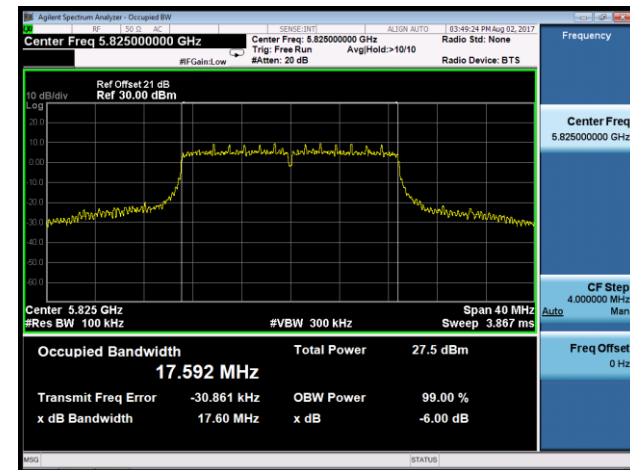
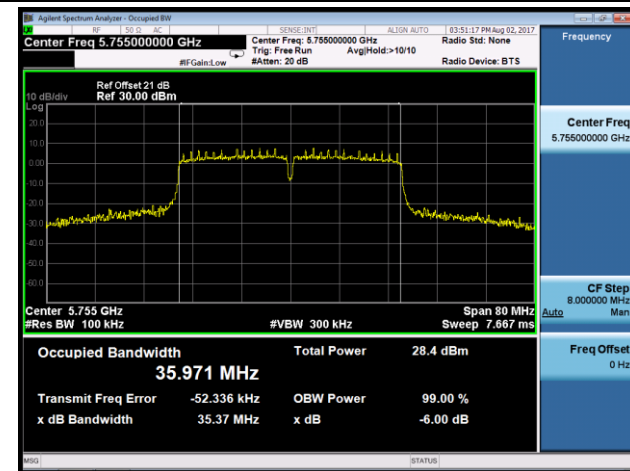
802.11ac-VHT20 6dB Bandwidth - Ant 1
Channel 149 (5745MHz)

Channel 157 (5785MHz)

Channel 165 (5825MHz)

802.11ac-VHT40 6dB Bandwidth - Ant 1
Channel 151 (5755MHz)

Channel 159 (5795MHz)


802.11ac-VHT80 6dB Bandwidth - Ant 1

Channel 155 (5775MHz)



802.11a 6dB Bandwidth - Ant 2
Channel 149 (5745MHz)

Channel 157 (5785MHz)

Channel 165 (5825MHz)


802.11n-HT20 6dB Bandwidth - Ant 2
Channel 149 (5745MHz)

Channel 157 (5785MHz)

Channel 165 (5825MHz)

802.11n-HT40 6dB Bandwidth - Ant 2
Channel 151 (5755MHz)

Channel 159 (5795MHz)
