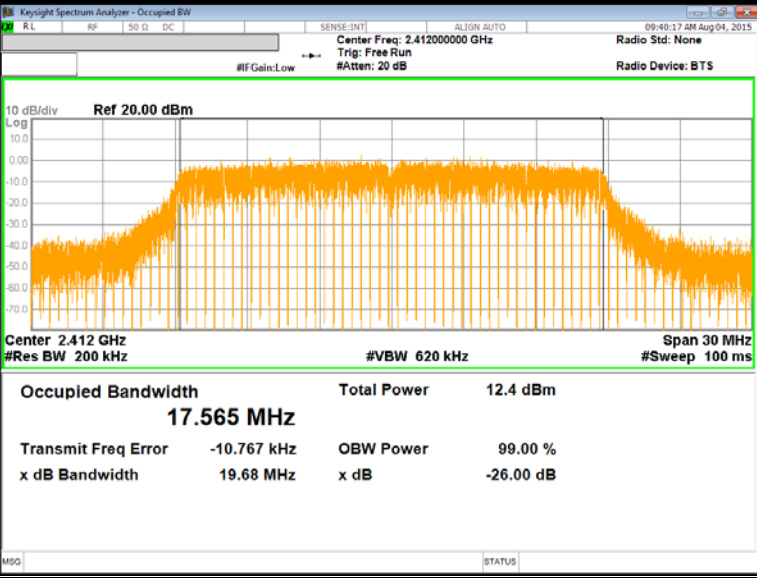
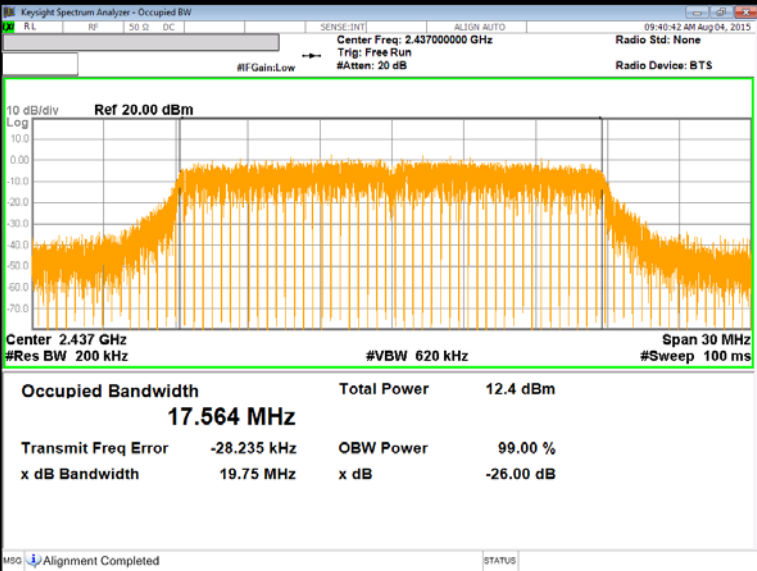
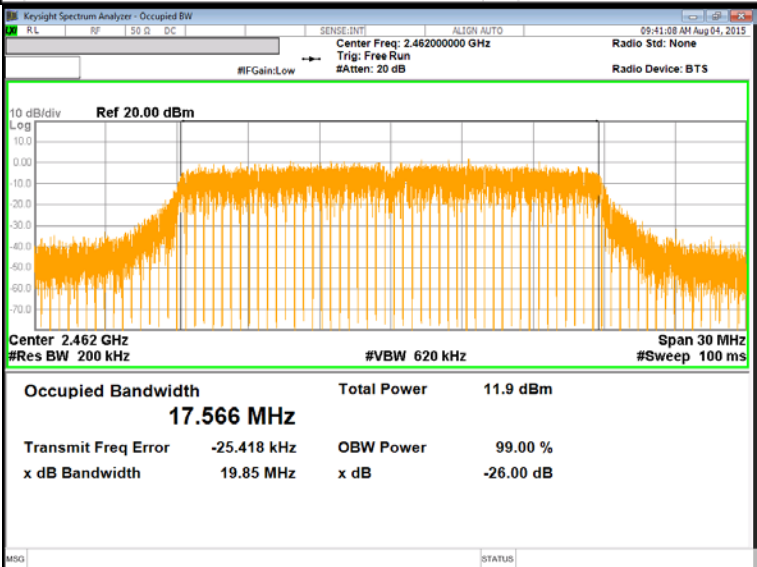


<p>802.11n Mode Low CH</p>	 <p>KeySight Spectrum Analyzer - Occupied BW          Center Freq: 2.41200000 GHz          Trig: Free Run          #Atten: 20 dB          Radio Std: None          Radio Device: BTS</p> <p>10 dB/div Ref 20.00 dBm          Log          Center 2.412 GHz Span 30 MHz          #Res BW 200 kHz #VBW 620 kHz #Sweep 100 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.4 dBm</td> </tr> <tr> <td><b>17.565 MHz</b></td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-10.767 kHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>19.68 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	12.4 dBm	<b>17.565 MHz</b>			Transmit Freq Error	OBW Power	99.00 %	-10.767 kHz	x dB	-26.00 dB	x dB Bandwidth			19.68 MHz		
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<p>802.11n Mode Middle CH</p>	 <p>KeySight Spectrum Analyzer - Occupied BW          Center Freq: 2.43700000 GHz          Trig: Free Run          #Atten: 20 dB          Radio Std: None          Radio Device: BTS</p> <p>10 dB/div Ref 20.00 dBm          Log          Center 2.437 GHz Span 30 MHz          #Res BW 200 kHz #VBW 620 kHz #Sweep 100 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.4 dBm</td> </tr> <tr> <td><b>17.564 MHz</b></td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-28.235 kHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>19.75 MHz</td> <td></td> <td></td> </tr> </table> <p>Alignment Completed</p>	Occupied Bandwidth	Total Power	12.4 dBm	<b>17.564 MHz</b>			Transmit Freq Error	OBW Power	99.00 %	-28.235 kHz	x dB	-26.00 dB	x dB Bandwidth			19.75 MHz		
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x dB Bandwidth																			
19.75 MHz																			
<p>802.11n Mode High CH</p>	 <p>KeySight Spectrum Analyzer - Occupied BW          Center Freq: 2.46200000 GHz          Trig: Free Run          #Atten: 20 dB          Radio Std: None          Radio Device: BTS</p> <p>10 dB/div Ref 20.00 dBm          Log          Center 2.462 GHz Span 30 MHz          #Res BW 200 kHz #VBW 620 kHz #Sweep 100 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>11.9 dBm</td> </tr> <tr> <td><b>17.566 MHz</b></td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-25.418 kHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>19.85 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	11.9 dBm	<b>17.566 MHz</b>			Transmit Freq Error	OBW Power	99.00 %	-25.418 kHz	x dB	-26.00 dB	x dB Bandwidth			19.85 MHz		
Occupied Bandwidth	Total Power	11.9 dBm																	
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Transmit Freq Error	OBW Power	99.00 %																	
-25.418 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
19.85 MHz																			

### 10.3. OUTPUT POWER

#### LIMITS

FCC §15.247

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

#### TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 10.1 dB (including 10 dB pad and 0.1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

#### RESULTS

##### 10.3.1. 802.11b MODE IN THE 2.4 GHz BAND

###### Limits

Channel	Frequency [MHz]	Directional Gain Primary [dBi]	FCC Power Limit [dBm]	IC Power Limit [dBm]	IC EIRP Limit [dBm]	Max Power [dBm]
Low	2412	-1.50	30.00	30.00	36.00	30.00
Mid	2437	-1.50	30.00	30.00	36.00	30.00
High	2462	-1.50	30.00	30.00	36.00	30.00

###### Results

Channel	Frequency [MHz]	Primary Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Margin [dB]
Low	2412	16.92	16.92	36.00	-19.08
Mid	2437	16.82	16.82	36.00	-19.18
High	2462	16.47	16.47	36.00	-19.53
Worst			16.92	36.00	-19.08

**10.3.2. 802.11g MODE IN THE 2.4 GHz BAND**

**Limits**

Channel	Frequency [MHz]	Directional Gain Primary [dBi]	FCC Power Limit [dBm]	IC Power Limit [dBm]	IC EIRP Limit [dBm]	Max Power [dBm]
Low	2412	-1.50	30.00	30.00	36.00	30.00
Mid	2437	-1.50	30.00	30.00	36.00	30.00
High	2462	-1.50	30.00	30.00	36.00	30.00

**Results**

Channel	Frequency [MHz]	Primary Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Margin [dB]
Low	2412	14.15	14.15	36.00	-21.85
Mid	2437	14.09	14.09	36.00	-21.91
High	2462	13.65	13.65	36.00	-22.35
Worst			14.15	36.00	-21.85

**10.3.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND**

**Limits**

Channel	Frequency [MHz]	Directional Gain Primary [dBi]	FCC Power Limit [dBm]	IC Power Limit [dBm]	IC EIRP Limit [dBm]	Max Power [dBm]
Low	2412	-1.50	30.00	30.00	36.00	30.00
Mid	2437	-1.50	30.00	30.00	36.00	30.00
High	2462	-1.50	30.00	30.00	36.00	30.00

**Results**

Channel	Frequency [MHz]	Primary Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Margin [dB]
Low	2412	13.02	13.02	36.00	-22.98
Mid	2437	12.85	12.85	36.00	-23.15
High	2462	12.46	12.46	36.00	-23.54
Worst			13.02	36.00	-22.98

## 10.4. PSD

### LIMITS

FCC §15.247

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### TEST PROCEDURE

Power Spectral Density was performed utilizing the “Method AVGPSD-2” under KDB558074 D01 DTS Meas Guidance v03r03

### RESULTS

#### 10.4.1. 802.11b MODE IN THE 2.4 GHz BAND

##### PSD Results

Channel	Frequency [MHz]	PSD Meas [dBm]	Duty Factor [dB]	Final PSD [dBm]	Limit [dBm]	Margin [dB]
Low	2412	-12.765	0.00	-12.77	8.00	-20.77
Mid	2437	-10.061	0.00	-10.06	8.00	-18.06
High	2462	-9.605	0.00	-9.61	8.00	-17.61

#### 10.4.2. 802.11g MODE IN THE 2.4 GHz BAND

##### PSD Results

Channel	Frequency [MHz]	PSD Meas [dBm]	Duty Factor [dB]	Final PSD [dBm]	Limit [dBm]	Margin [dB]
Low	2412	-16.856	0.29	-16.57	8.00	-24.86
Mid	2437	-16.222	0.29	-15.93	8.00	-24.22
High	2462	-16.858	0.29	-16.57	8.00	-24.86

#### 10.4.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

##### PSD Results

Channel	Frequency [MHz]	PSD Meas [dBm]	Duty Factor [dB]	Final PSD [dBm]	Limit [dBm]	Margin [dB]
Low	2412	-18.235	0.34	-17.90	8.00	-26.24
Mid	2437	-18.392	0.34	-18.05	8.00	-26.39
High	2462	-18.372	0.34	-18.03	8.00	-26.37

10.4.4. PSD PLOTS

<p>802.11b Mode Low CH</p>	<p>Center 2.41200 GHz          #Res BW 3.0 kHz          #VBW 10 kHz*          Span 25.50 MHz          Sweep 1.045 s (40001 pts)</p> <p>Mkr1 2.4147285 GHz          -12.765 dBm</p>
<p>802.11b Mode Middle CH</p>	<p>Center 2.43700 GHz          #Res BW 3.0 kHz          #VBW 10 kHz*          Span 25.50 MHz          Sweep 1.045 s (40001 pts)</p> <p>Mkr1 2.4397285 GHz          -10.061 dBm</p>
<p>802.11b Mode High CH</p>	<p>Center 2.46200 GHz          #Res BW 3.0 kHz          #VBW 10 kHz*          Span 25.50 MHz          Sweep 1.045 s (40001 pts)</p> <p>Mkr1 2.4602278 GHz          -9.605 dBm</p>