

3.4 Channel Edge

3.4.1 Limit of Channel Edge

The attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph FCC Part 27.53(m)(6). In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz

3.4.2 Test Procedures

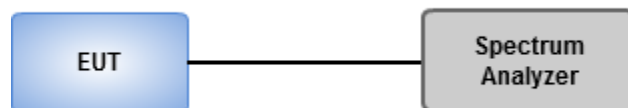
Band power measurement

1. Lowest and highest operating channels are tested for this item.
2. Set RBW = 2% of emission bandwidth, VBW = 3 x RBW, detector = RMS, sweep time = auto.
3. Enable adjacent channel power of spectrum analyzer to measure power of channel edge
4. Record the max trace value and capture the test plot.

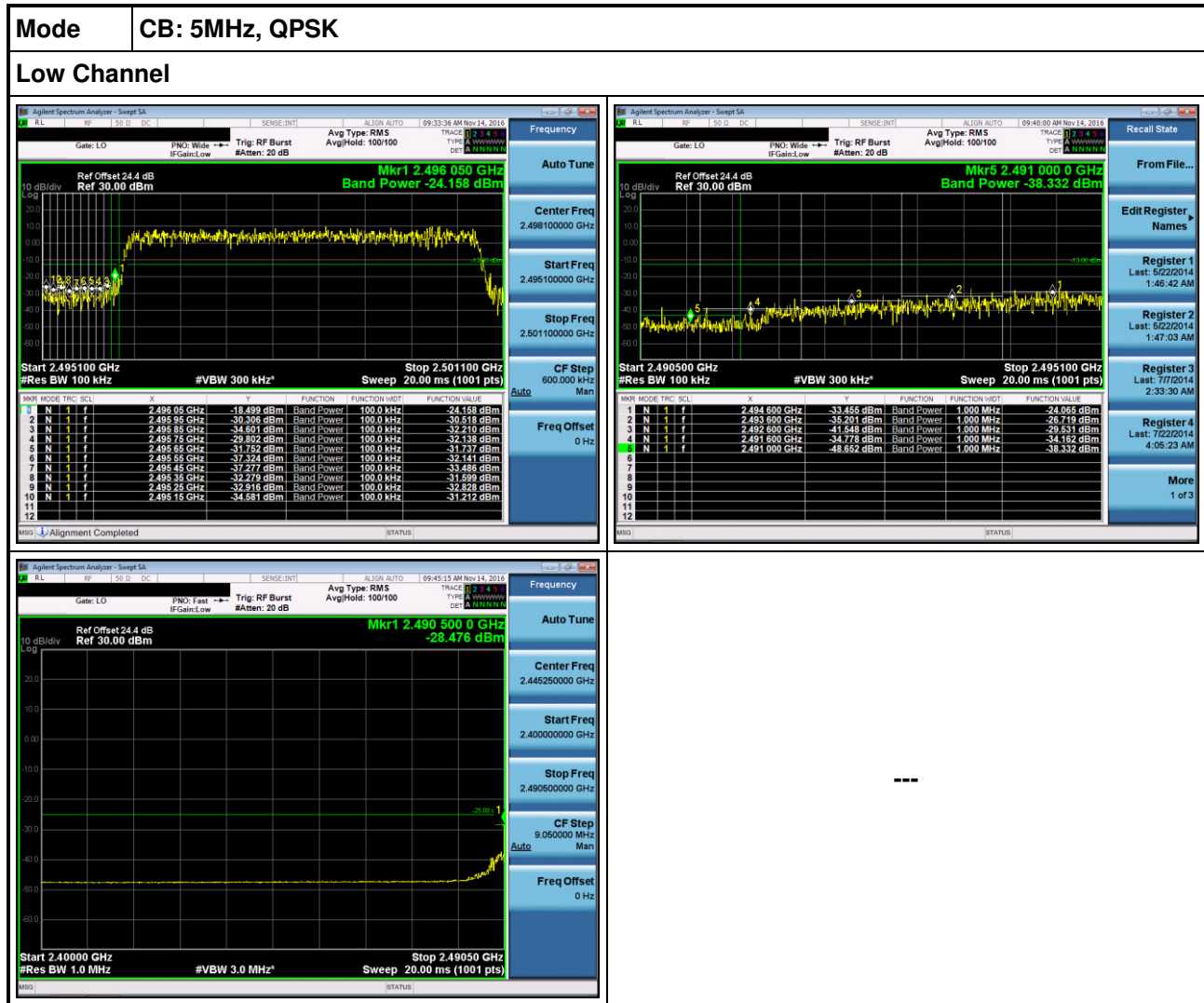
Non-Band power measurement

1. Lowest and highest operating channels are tested for this item.
2. Set RBW = 1MHz, VBW = 3 MHz, detector = RMS, sweep time = auto.
3. Record the max trace value and capture the test plot.

3.4.3 Test Setup

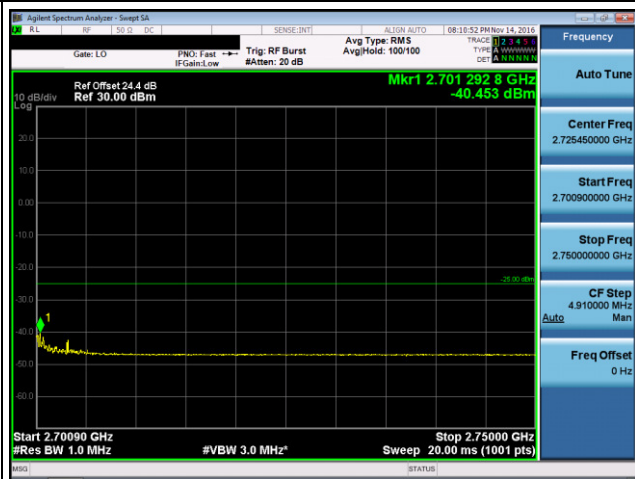
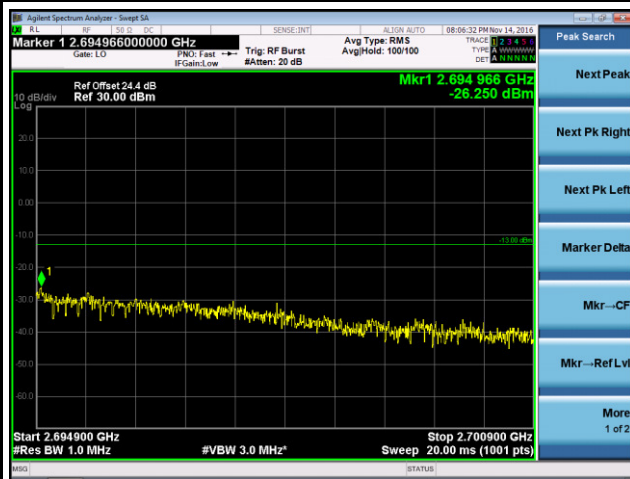
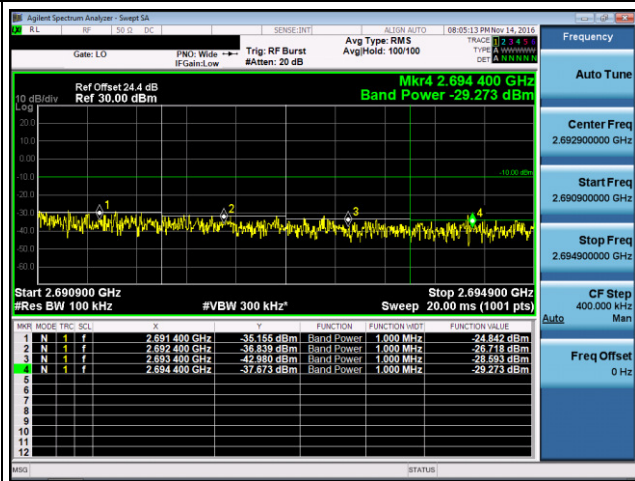
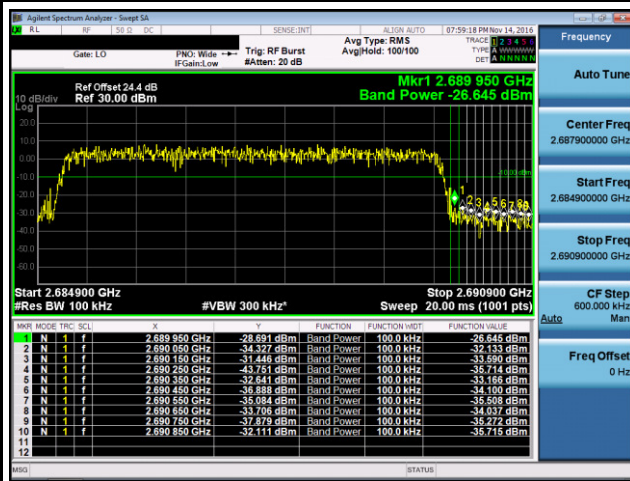


3.4.4 Test Result of Band Edge



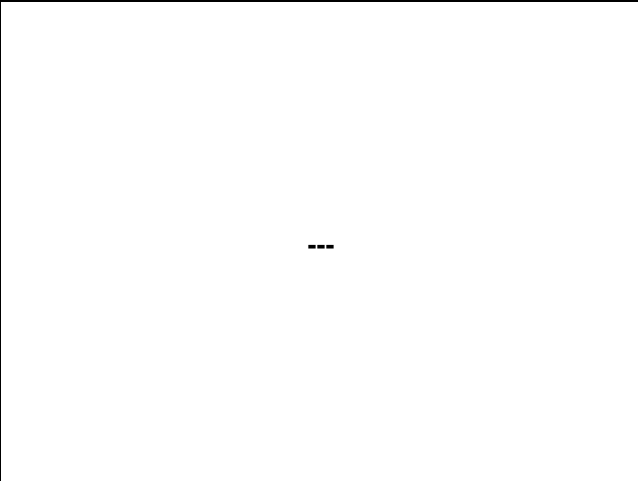
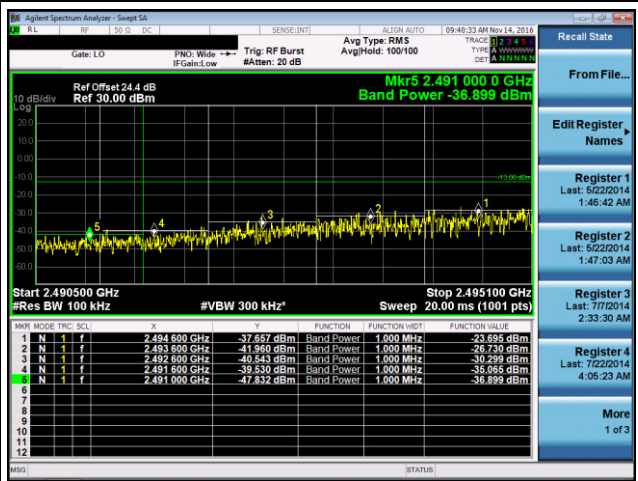
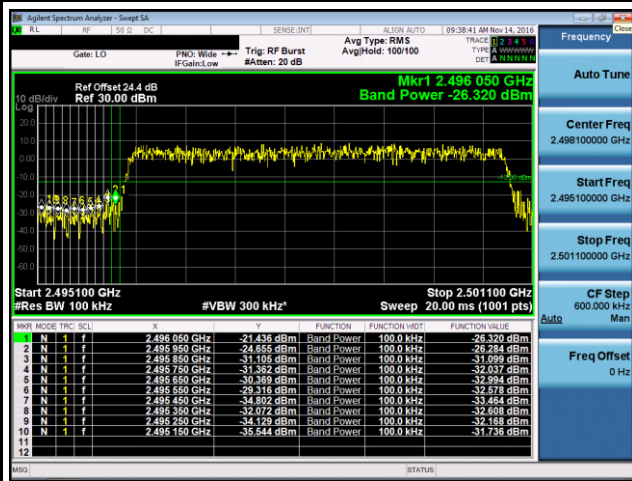
Mode CB: 5MHz, QPSK

High Channel



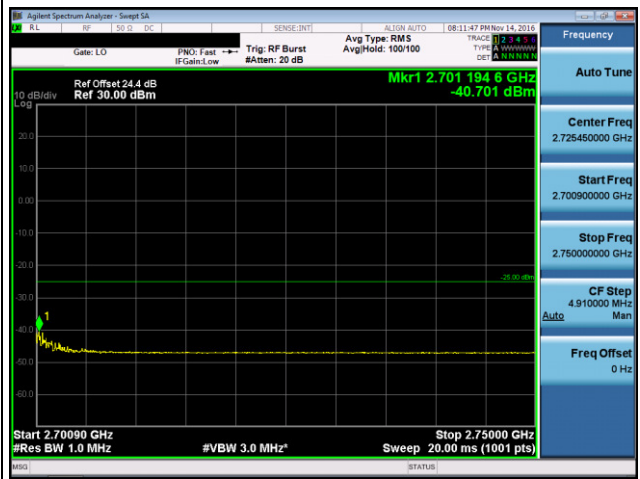
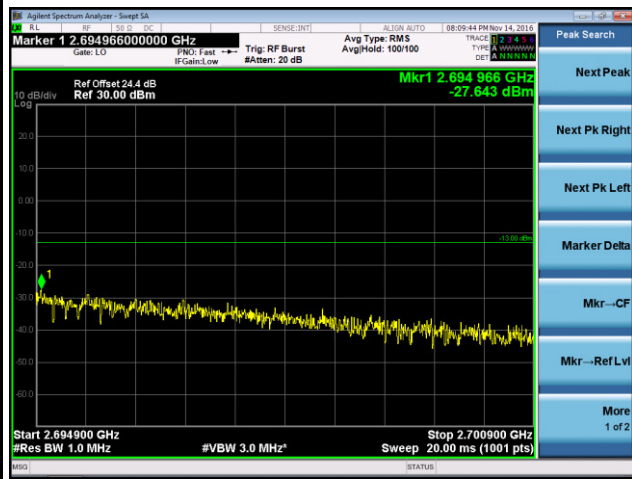
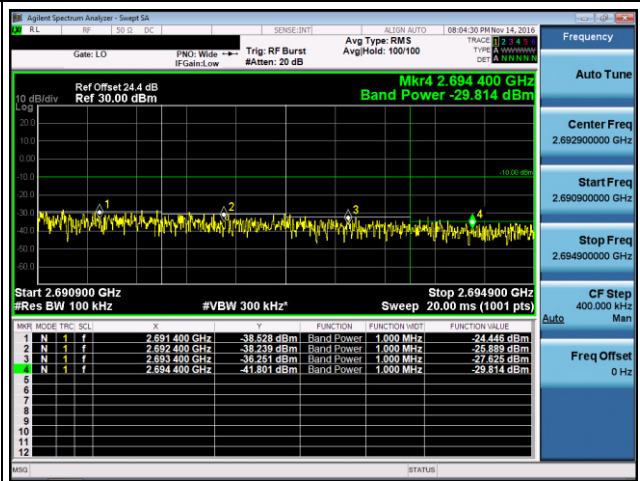
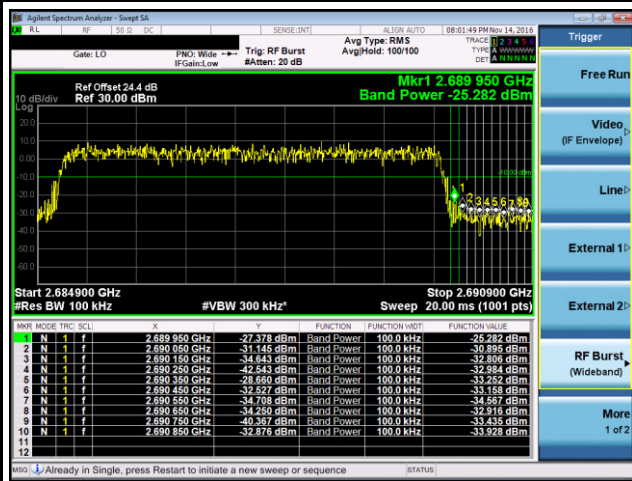
Mode CB: 5MHz, 16QAM

Low Channel



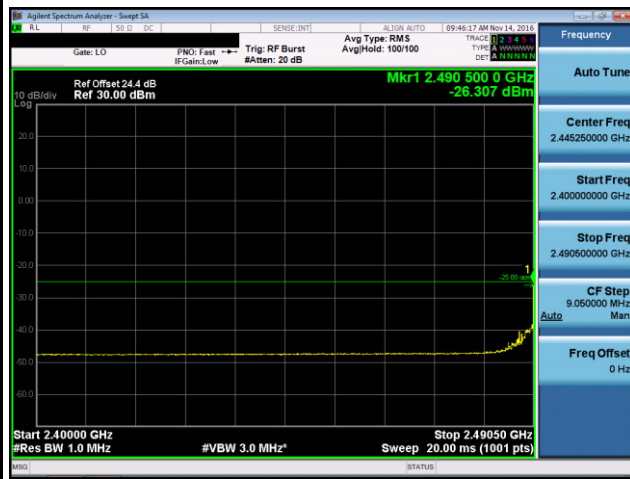
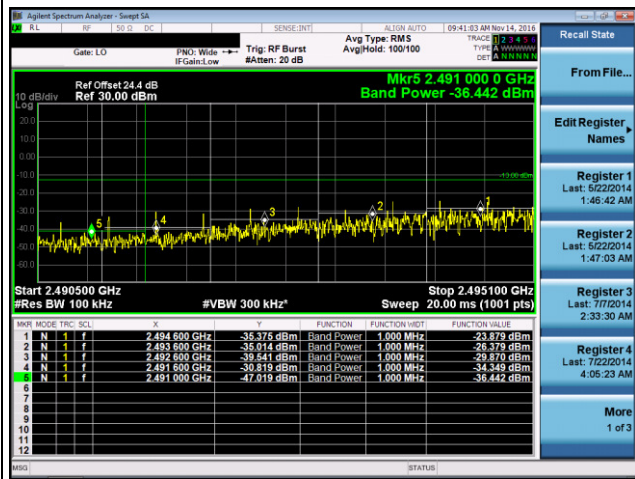
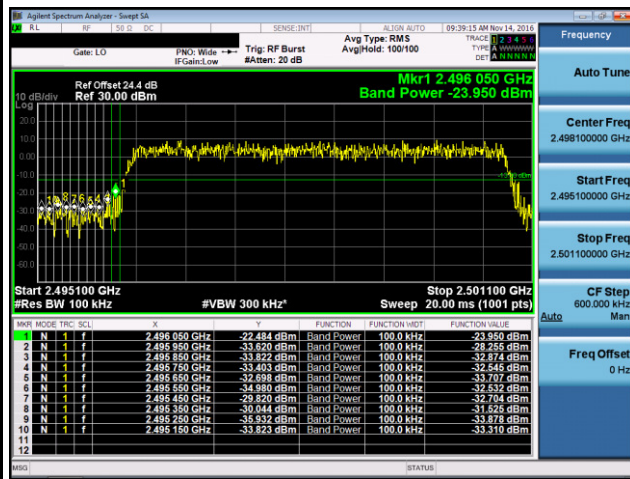
Mode CB: 5MHz, 16QAM

High Channel



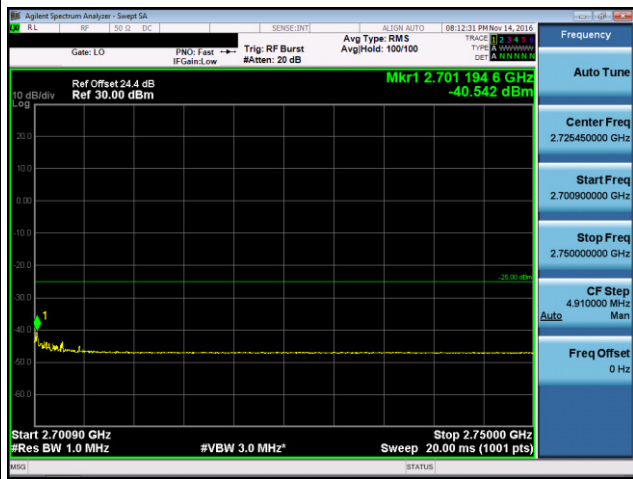
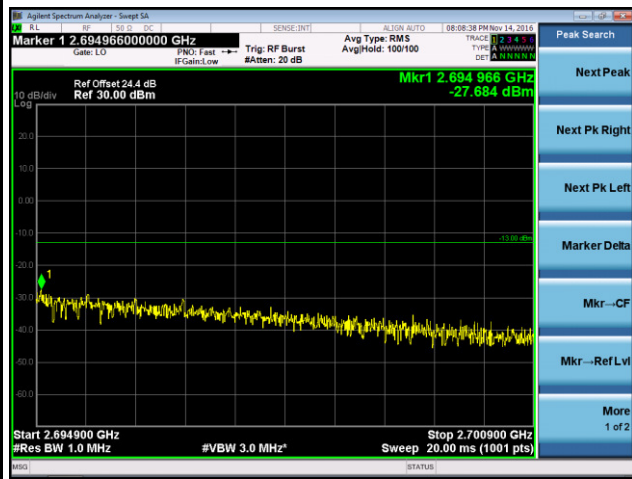
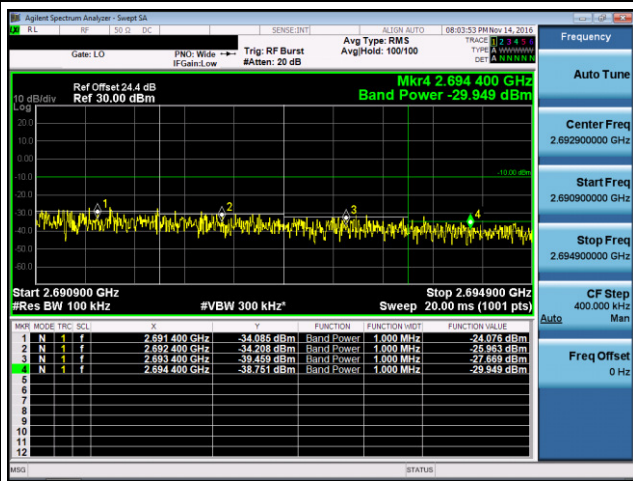
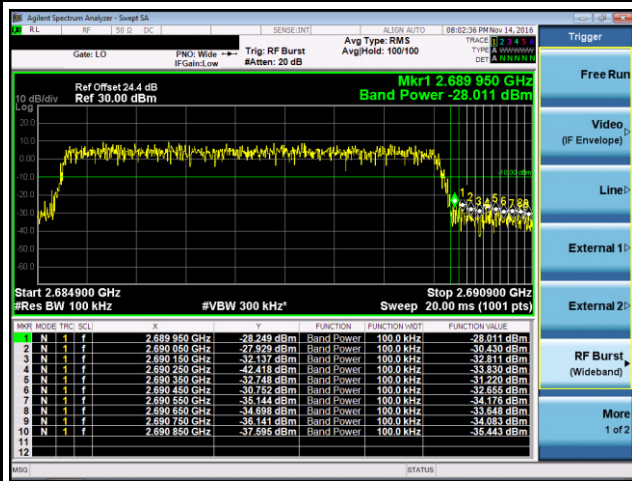
Mode CB: 5MHz, 64QAM

Low Channel



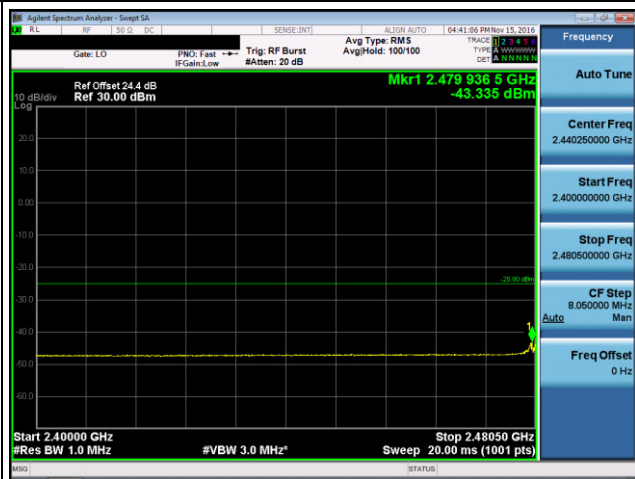
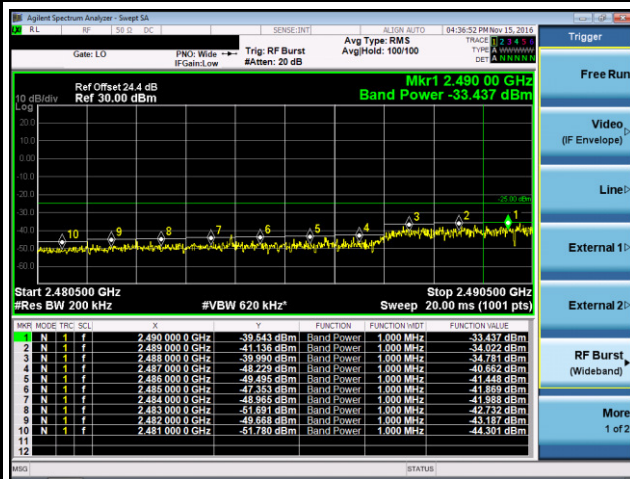
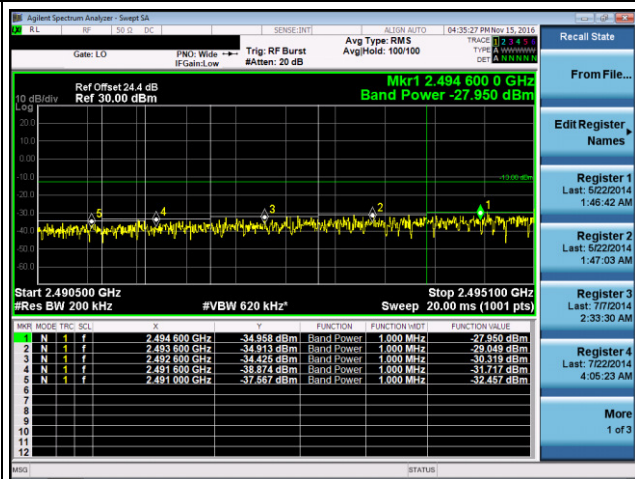
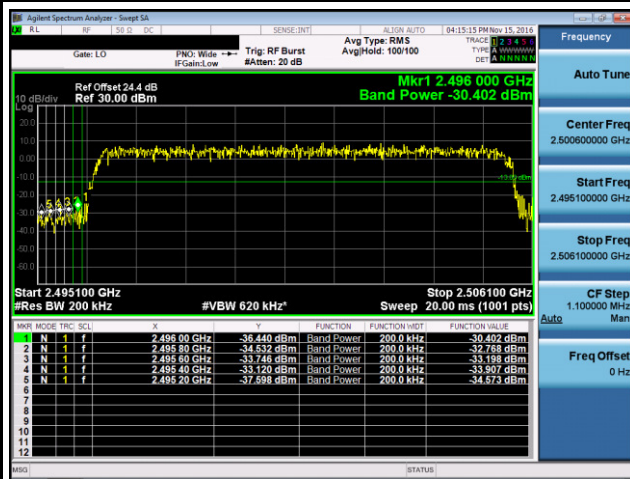
Mode CB: 5MHz, 16QAM

High Channel



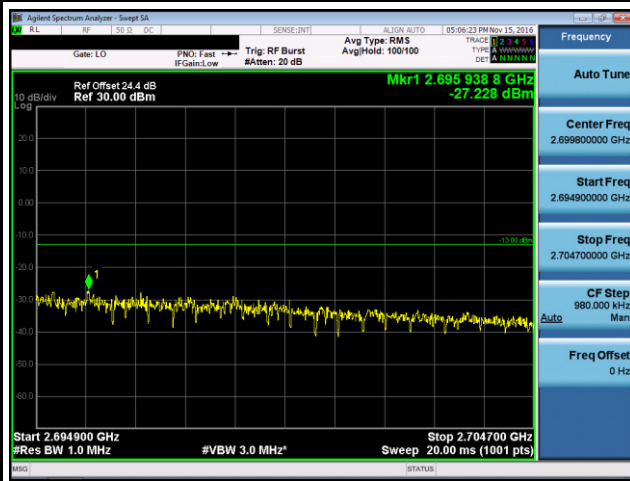
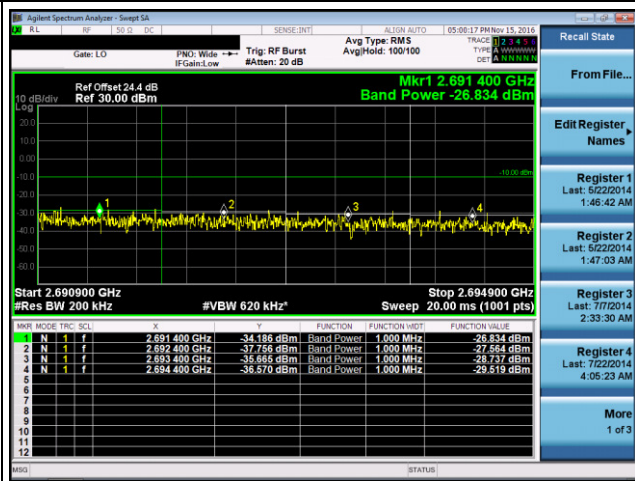
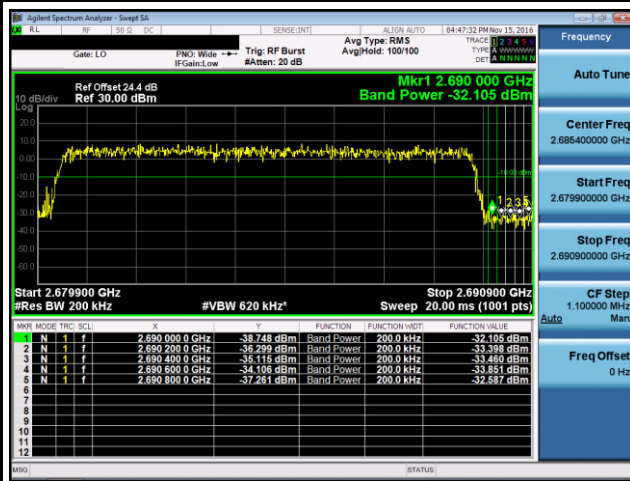
Mode CB: 10MHz, QPSK

Low Channel



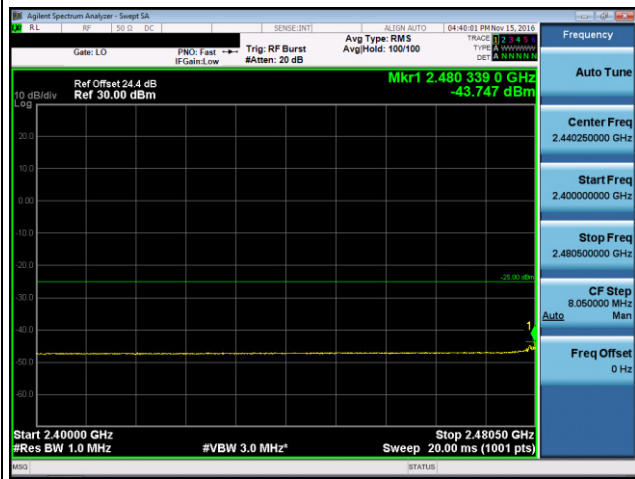
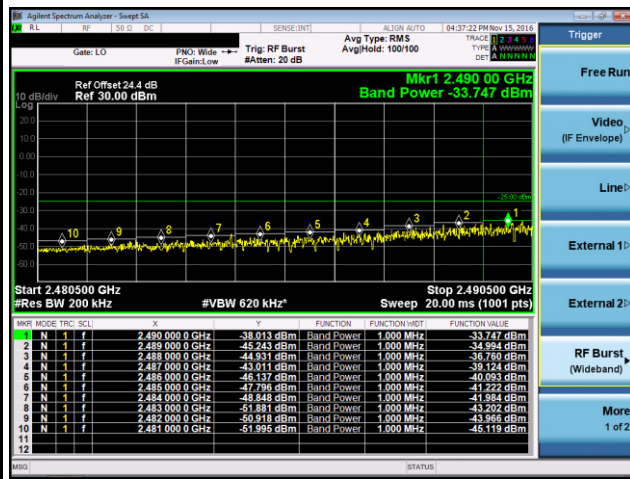
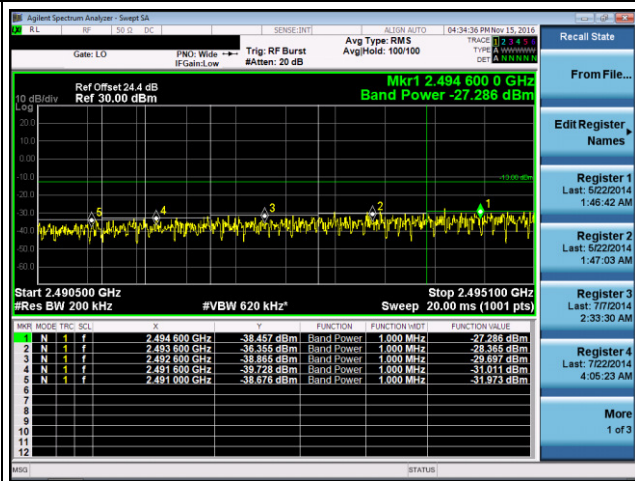
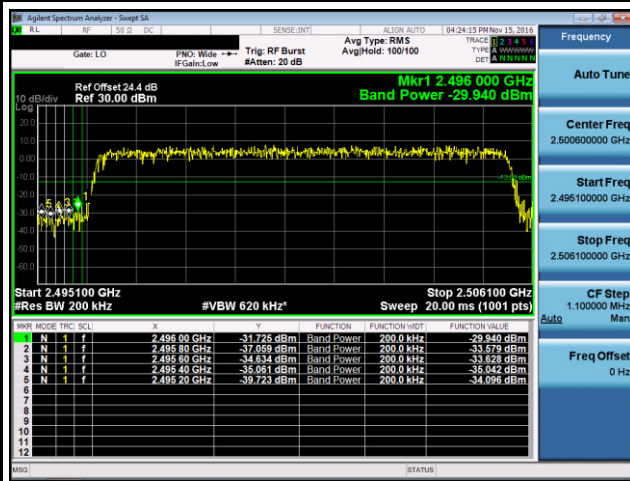
Mode CB: 10MHz, QPSK

High Channel



Mode CB: 10MHz, 16QAM

Low Channel



Mode CB: 10MHz, 16QAM

High Channel

