

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

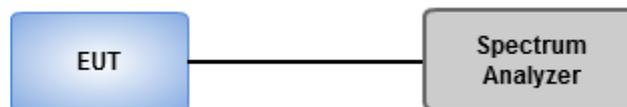
Band power measurement

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.

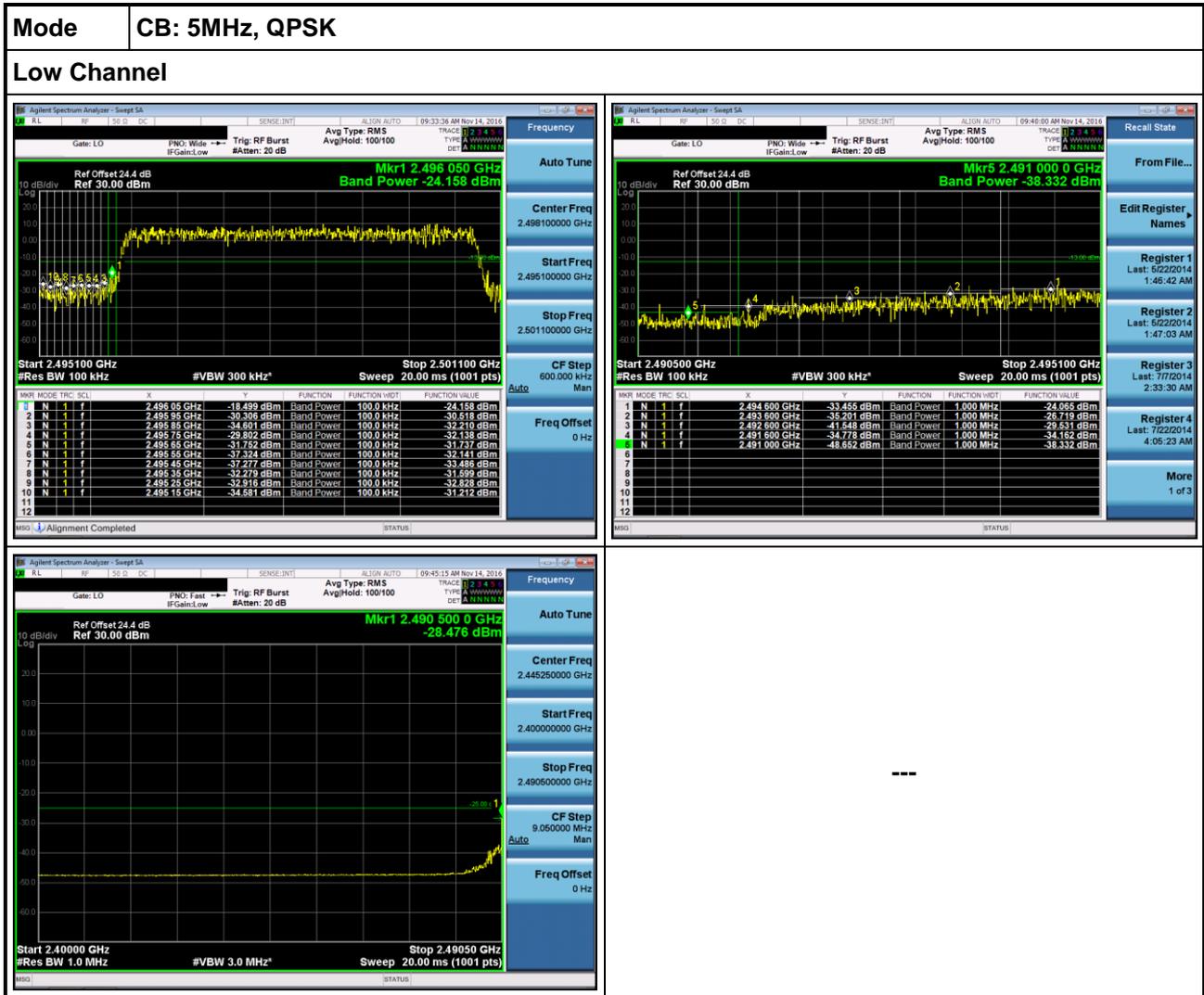
Non-Band power measurement

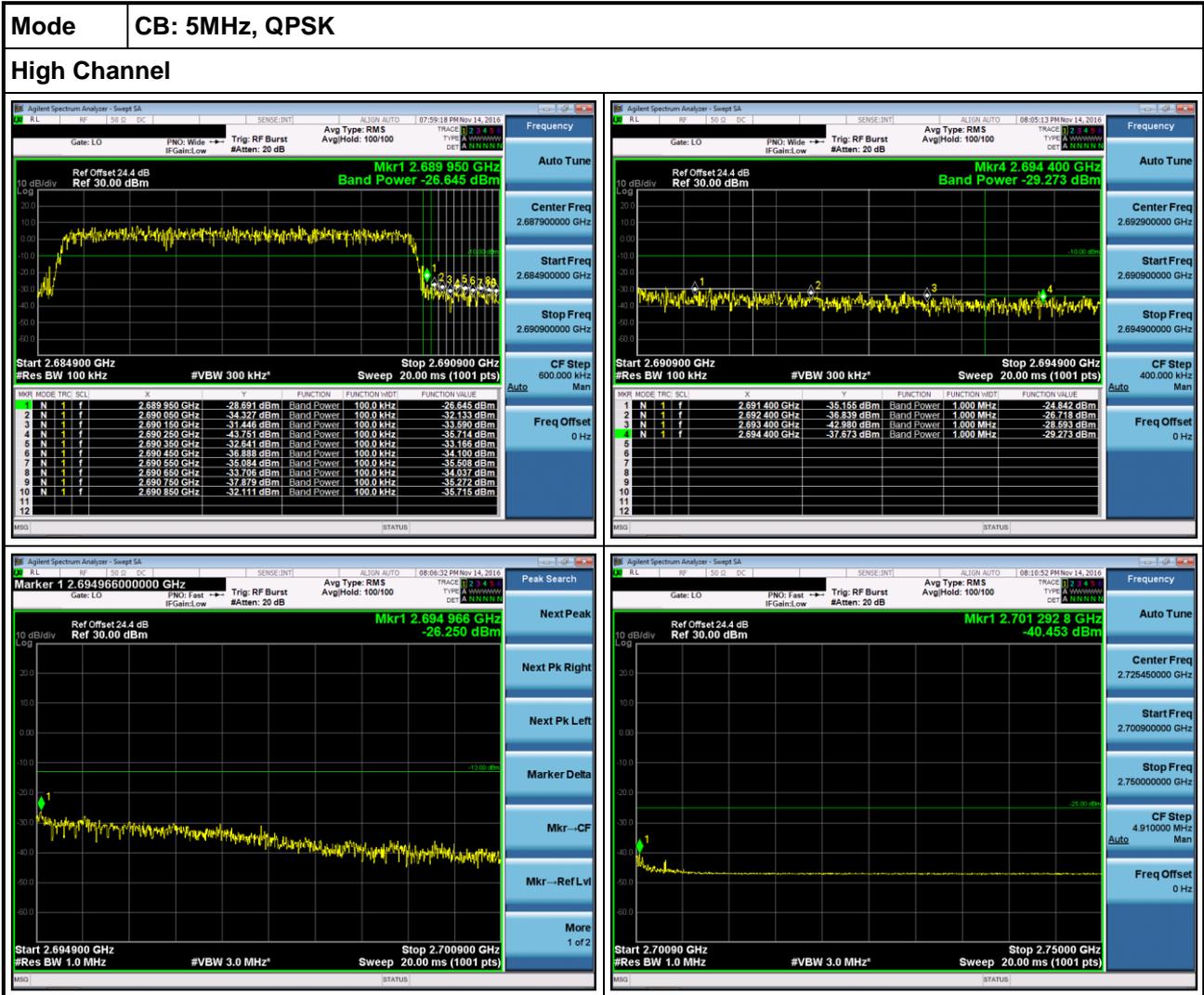
1. Lowest and highest operating channels are tested for this item.
2. Set RBW = 1MHz, VBW = 3 MHz, detector = RMS, sweep time = auto.
3. Record the max trace value and capture the test plot.

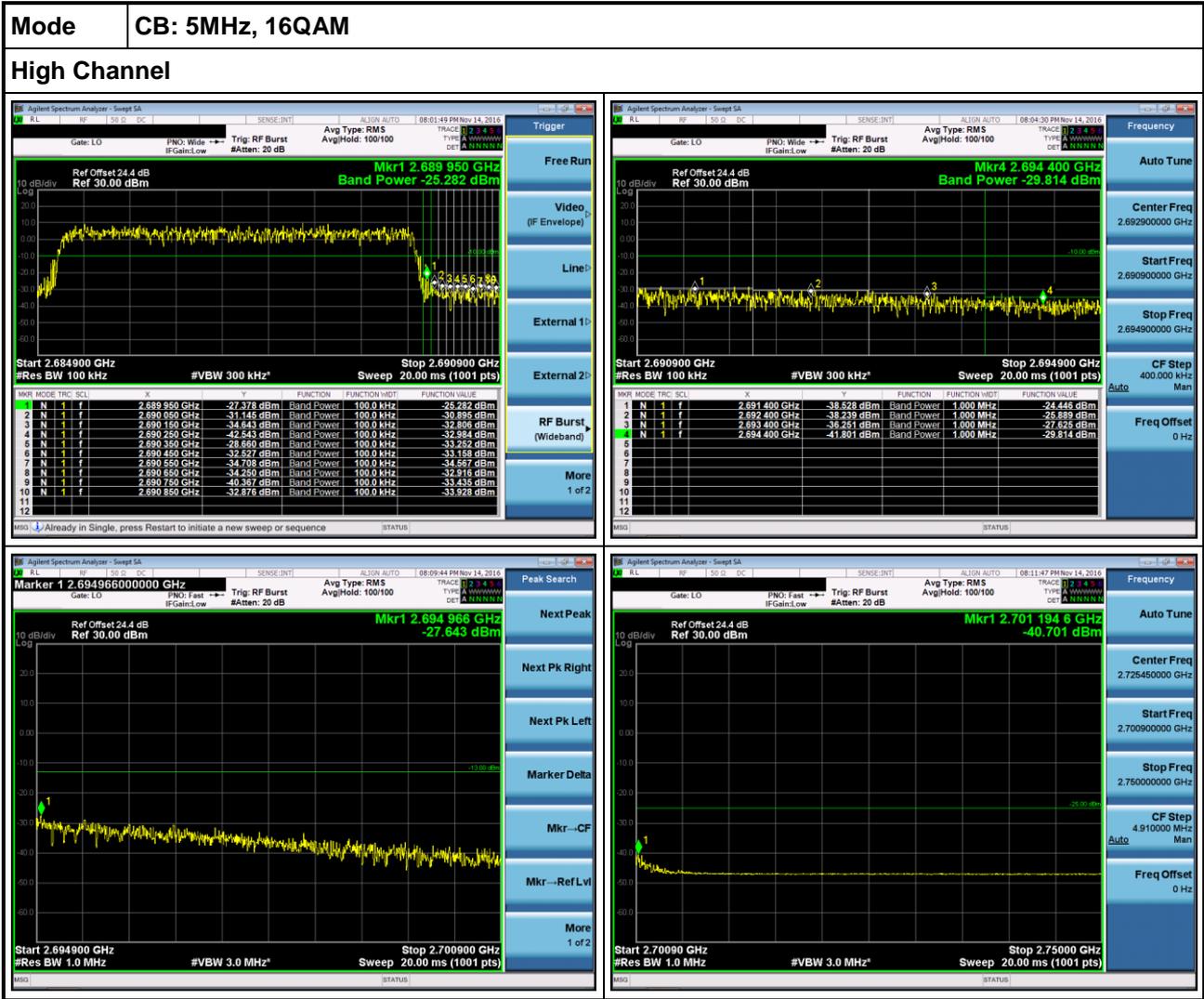
3.4.3 Test Setup



3.4.4 Test Result of Band Edge

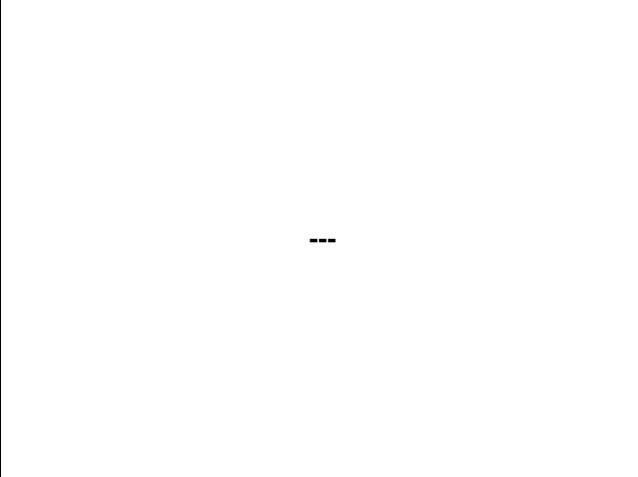
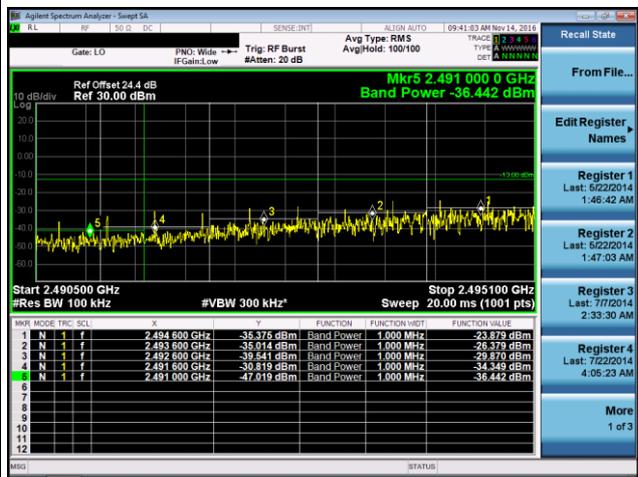
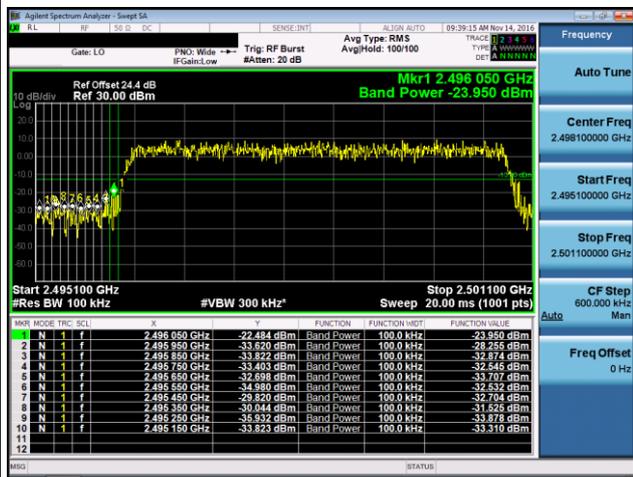


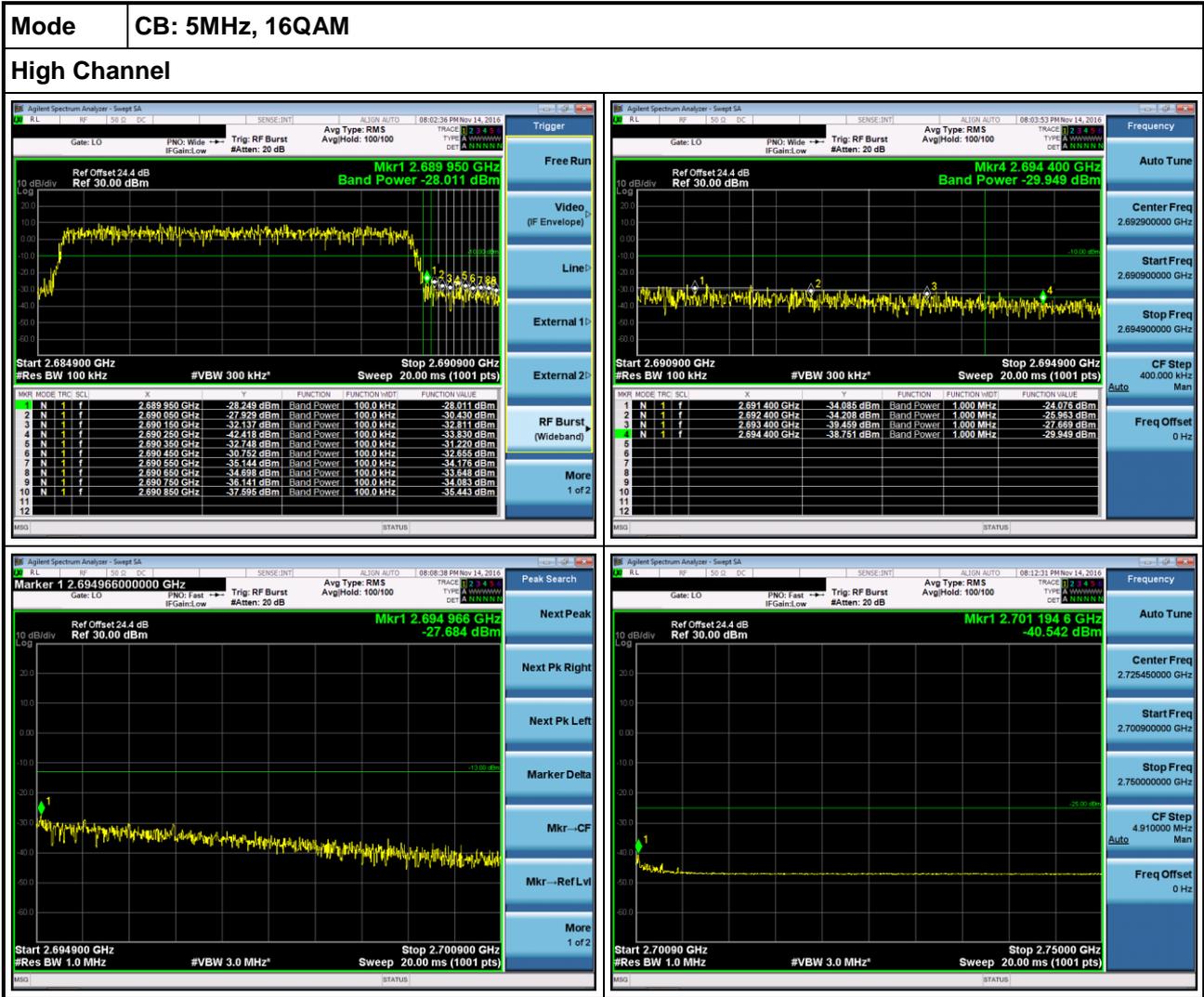




Mode CB: 5MHz, 64QAM

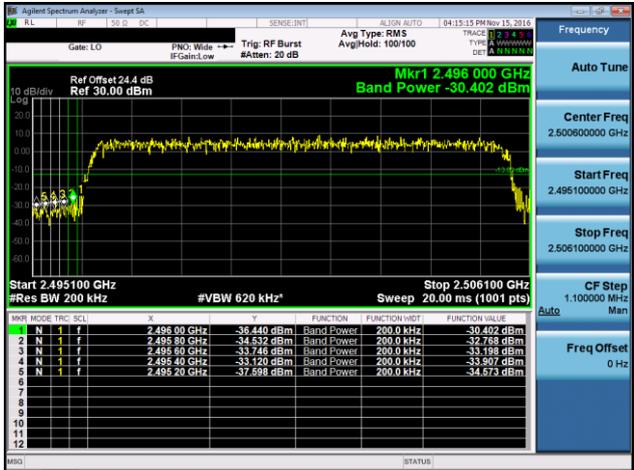
Low Channel





Mode **CB: 10MHz, QPSK**

Low Channel



Frequency

Auto Tune

Center Freq: 2.500500000 GHz

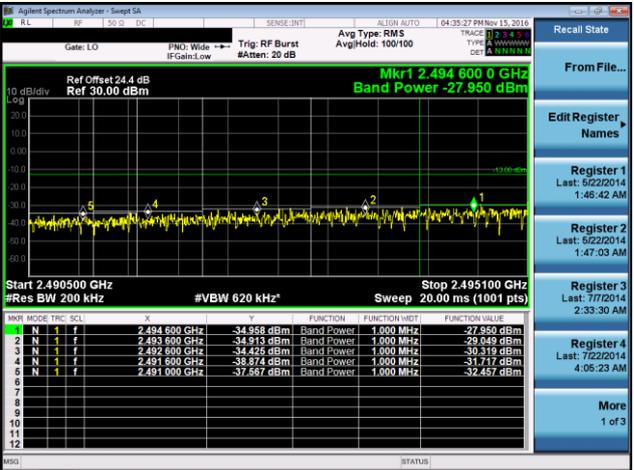
Start Freq: 2.495100000 GHz

Stop Freq: 2.506100000 GHz

CF Step: 1.100000 MHz

Freq Offset: 0 Hz

| MKR | MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION UNIT | FUNCTION VALUE |
|-----|------|-----|-----|---------------|-------------|------------|---------------|----------------|
| 1 | N | 1 | f | 2.495 000 GHz | -30.402 dBm | Band Power | 200.0 kHz | -30.402 dBm |
| 2 | N | 1 | f | 2.495 80 GHz | -33.432 dBm | Band Power | 200.0 kHz | -33.432 dBm |
| 3 | N | 1 | f | 2.495 60 GHz | -33.746 dBm | Band Power | 200.0 kHz | -33.198 dBm |
| 4 | N | 1 | f | 2.495 40 GHz | -33.120 dBm | Band Power | 200.0 kHz | -33.597 dBm |
| 5 | N | 1 | f | 2.495 20 GHz | -37.698 dBm | Band Power | 200.0 kHz | -34.574 dBm |
| 6 | N | 1 | f | | | | | |



Recall State

From File...

Edit Register Names

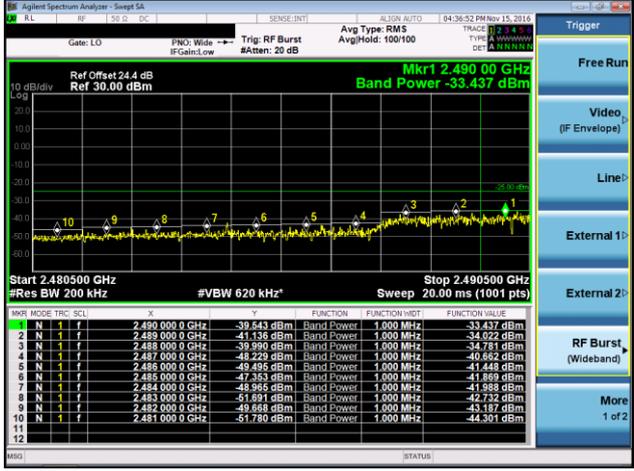
Register 1
Last: 5/22/2014 1:46:42 AM

Register 2
Last: 5/22/2014 1:47:03 AM

Register 3
Last: 7/7/2014 2:33:30 AM

Register 4
Last: 7/22/2014 4:05:23 AM

More
1 of 3



Trigger

Free Run

Video (IF Envelope)

Line

External 1

External 2

RF Burst (Wideband)

More
1 of 2



Frequency

Auto Tune

Center Freq: 2.440250000 GHz

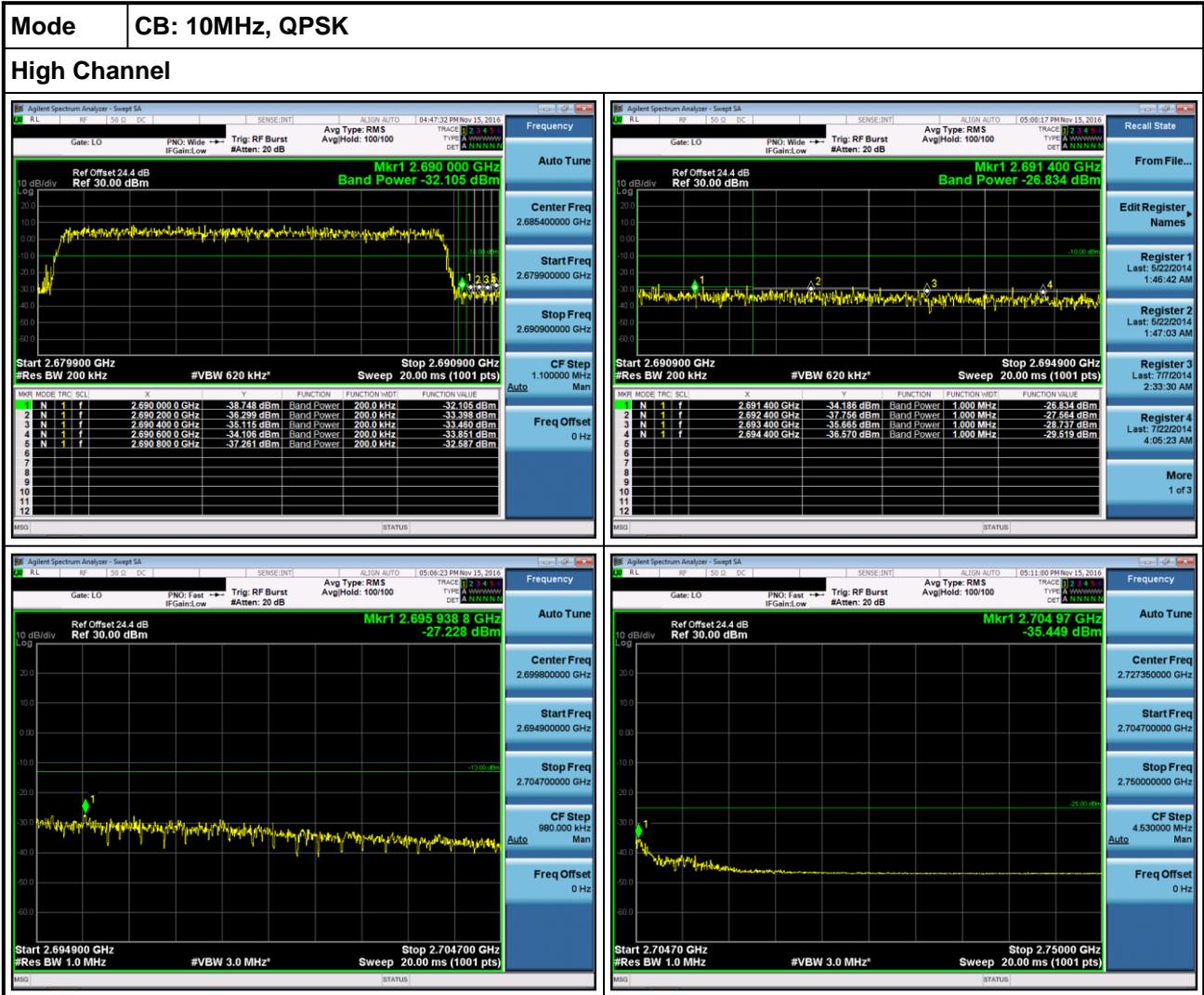
Start Freq: 2.400000000 GHz

Stop Freq: 2.480500000 GHz

CF Step: 8.050000 MHz

Freq Offset: 0 Hz

| MKR | MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION UNIT | FUNCTION VALUE |
|-----|------|-----|-----|---------------|-------------|------------|---------------|----------------|
| 1 | N | 1 | f | 2.490 000 GHz | -39.543 dBm | Band Power | 1.000 MHz | -33.437 dBm |
| 2 | N | 1 | f | 2.489 000 GHz | -41.136 dBm | Band Power | 1.000 MHz | -34.022 dBm |
| 3 | N | 1 | f | 2.488 000 GHz | -39.900 dBm | Band Power | 1.000 MHz | -34.781 dBm |
| 4 | N | 1 | f | 2.487 000 GHz | -48.229 dBm | Band Power | 1.000 MHz | -40.662 dBm |
| 5 | N | 1 | f | 2.486 000 GHz | -49.495 dBm | Band Power | 1.000 MHz | -41.448 dBm |
| 6 | N | 1 | f | 2.485 000 GHz | -47.353 dBm | Band Power | 1.000 MHz | -41.889 dBm |
| 7 | N | 1 | f | 2.484 000 GHz | -48.985 dBm | Band Power | 1.000 MHz | -41.988 dBm |
| 8 | N | 1 | f | 2.483 000 GHz | -51.091 dBm | Band Power | 1.000 MHz | -42.732 dBm |
| 9 | N | 1 | f | 2.482 000 GHz | -49.698 dBm | Band Power | 1.000 MHz | -43.187 dBm |
| 10 | N | 1 | f | 2.481 000 GHz | -51.780 dBm | Band Power | 1.000 MHz | -44.301 dBm |



Mode CB: 10MHz, 16QAM

Low Channel

