

3.4 Channel Edge

3.4.1 Limit of Channel Edge

For mobile digital stations, 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 (m)(6) of this section. 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

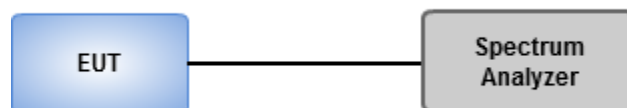
For Limit: $40 + 10 \log (P)$ and $43 + 10 \log (P)$

- 1 Set RBW = 110 ~ 390 kHz, VBW = 300 ~ 1600 kHz for channel bandwidth 5 ~ 20 MHz, detector = RMS, sweep time = auto.
- 2 Use channel power measurement function of spectrum analyzer to integrate power over necessary bandwidth.

For Limit: $55 + 10 \log (p)$

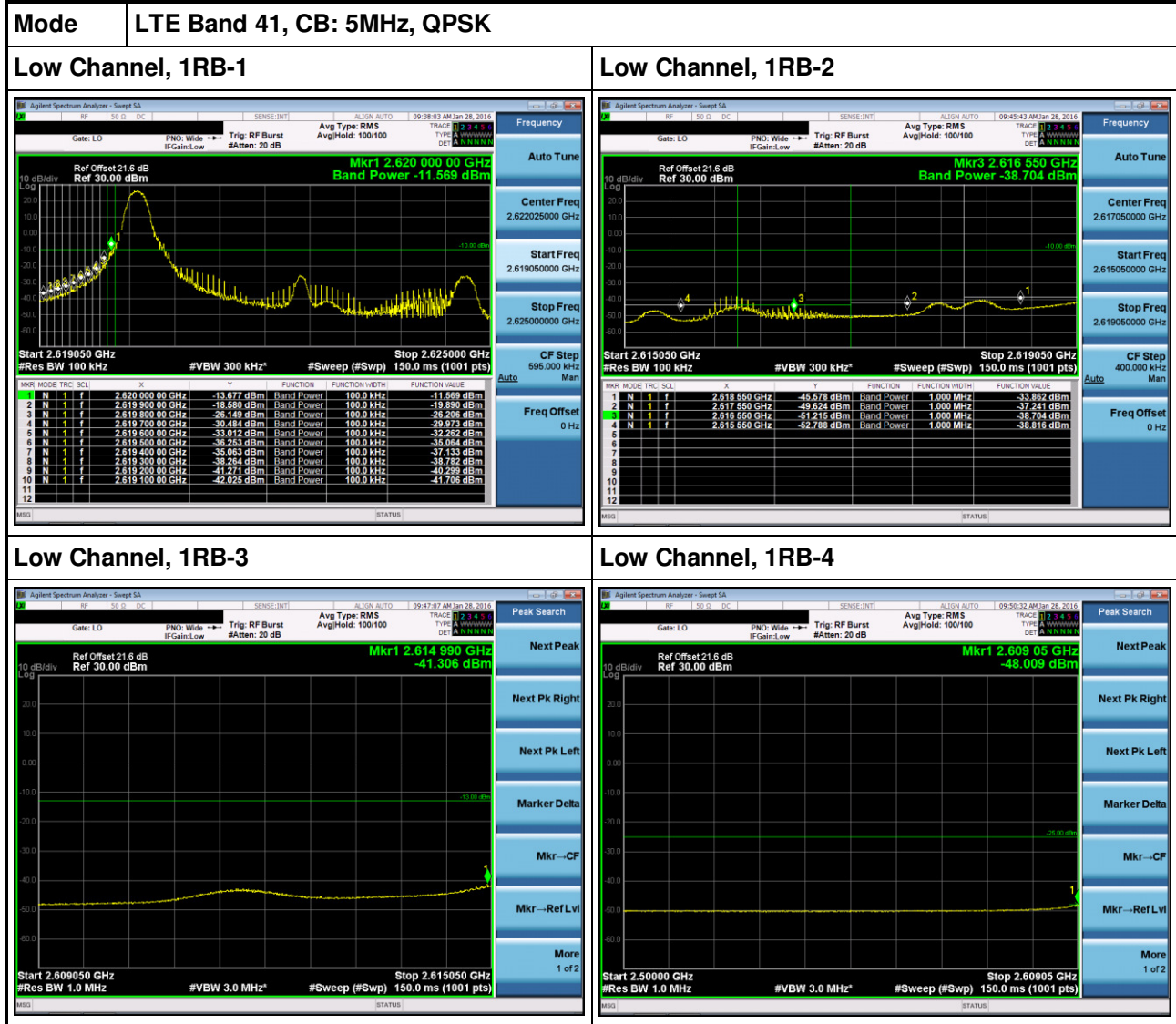
- 1 Set RBW = 1MHz, VBW= 3MHz detector = RMS, sweep time = auto.
- 2 Record the max trace value and capture the test plot.

3.4.3 Test Setup



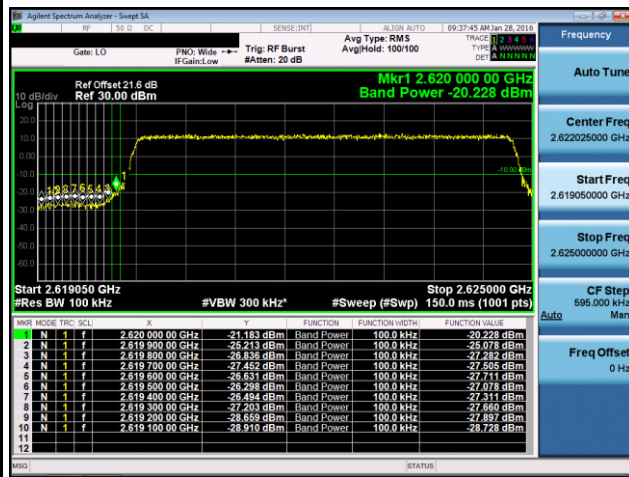
3.4.4 Test Result of Band Edge

LTE Band 41, CB: 5MHz

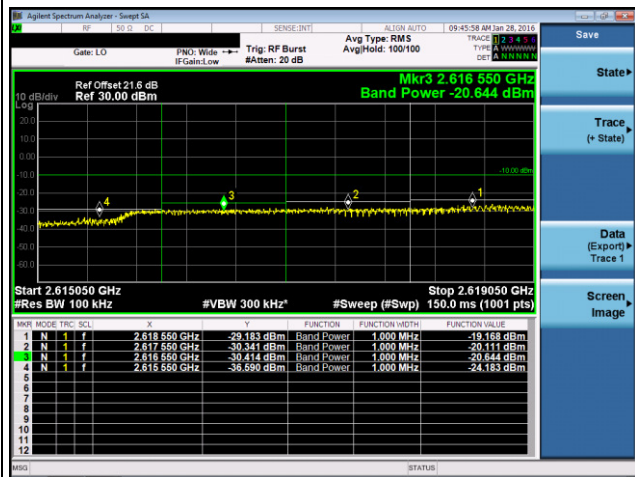


Mode LTE Band 41, CB: 5MHz, QPSK

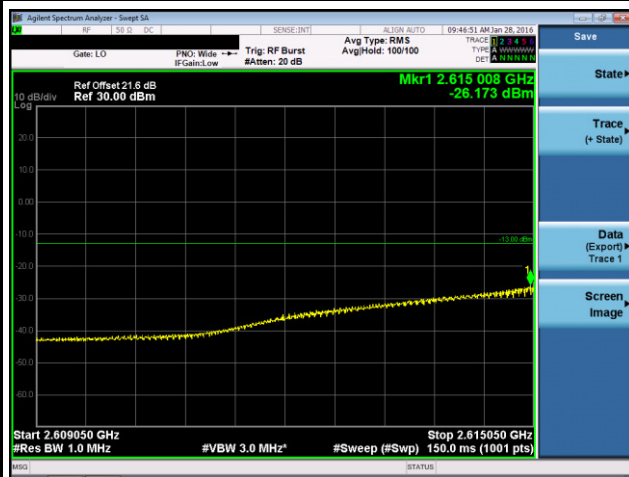
Low Channel, 100%RB-1



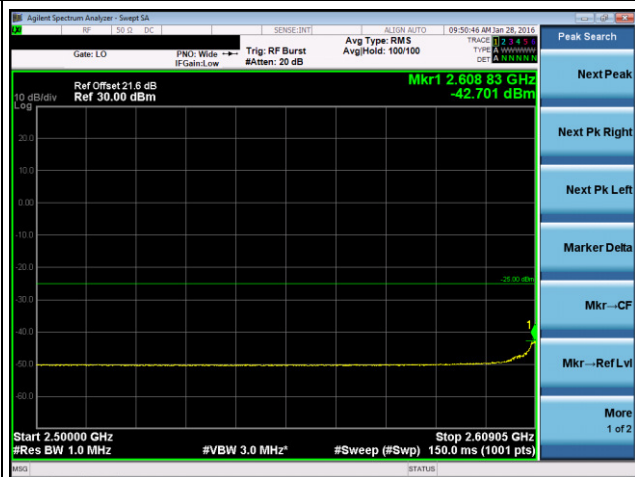
Low Channel, 100%RB-2



Low Channel, 100%RB-3

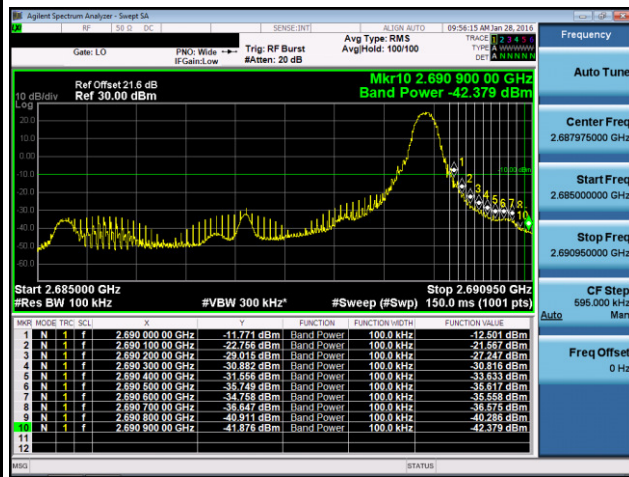


Low Channel, 100%RB-4

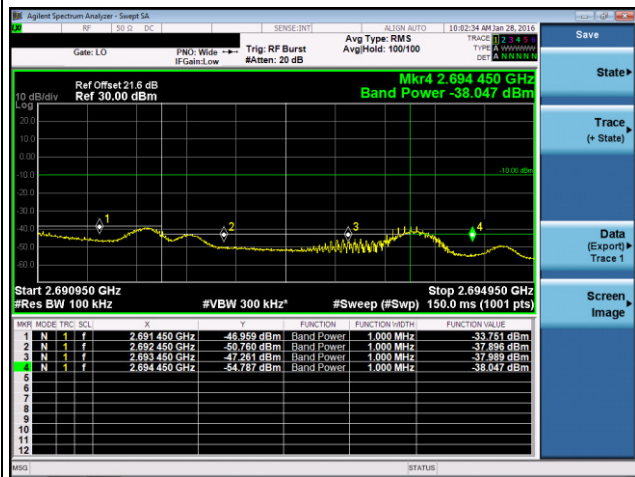


Mode LTE Band 41, CB: 5MHz, QPSK

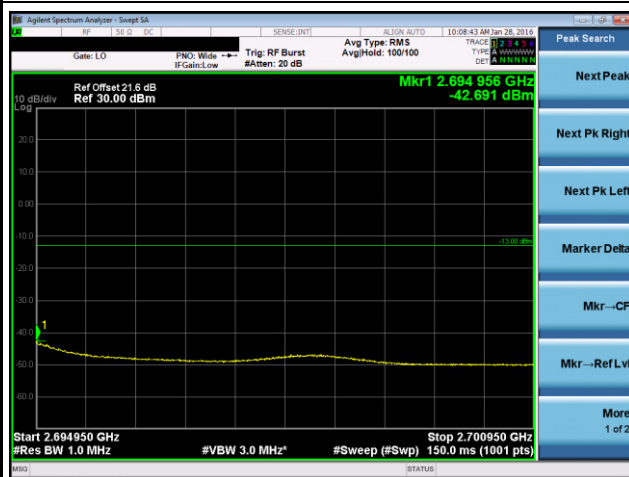
High Channel, 1RB-1



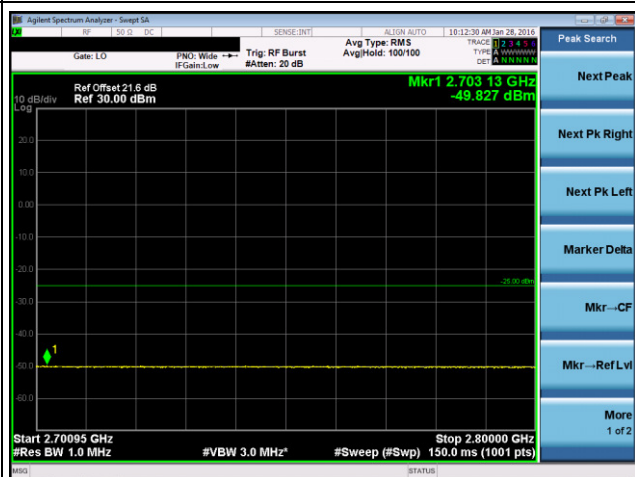
High Channel, 1RB-2

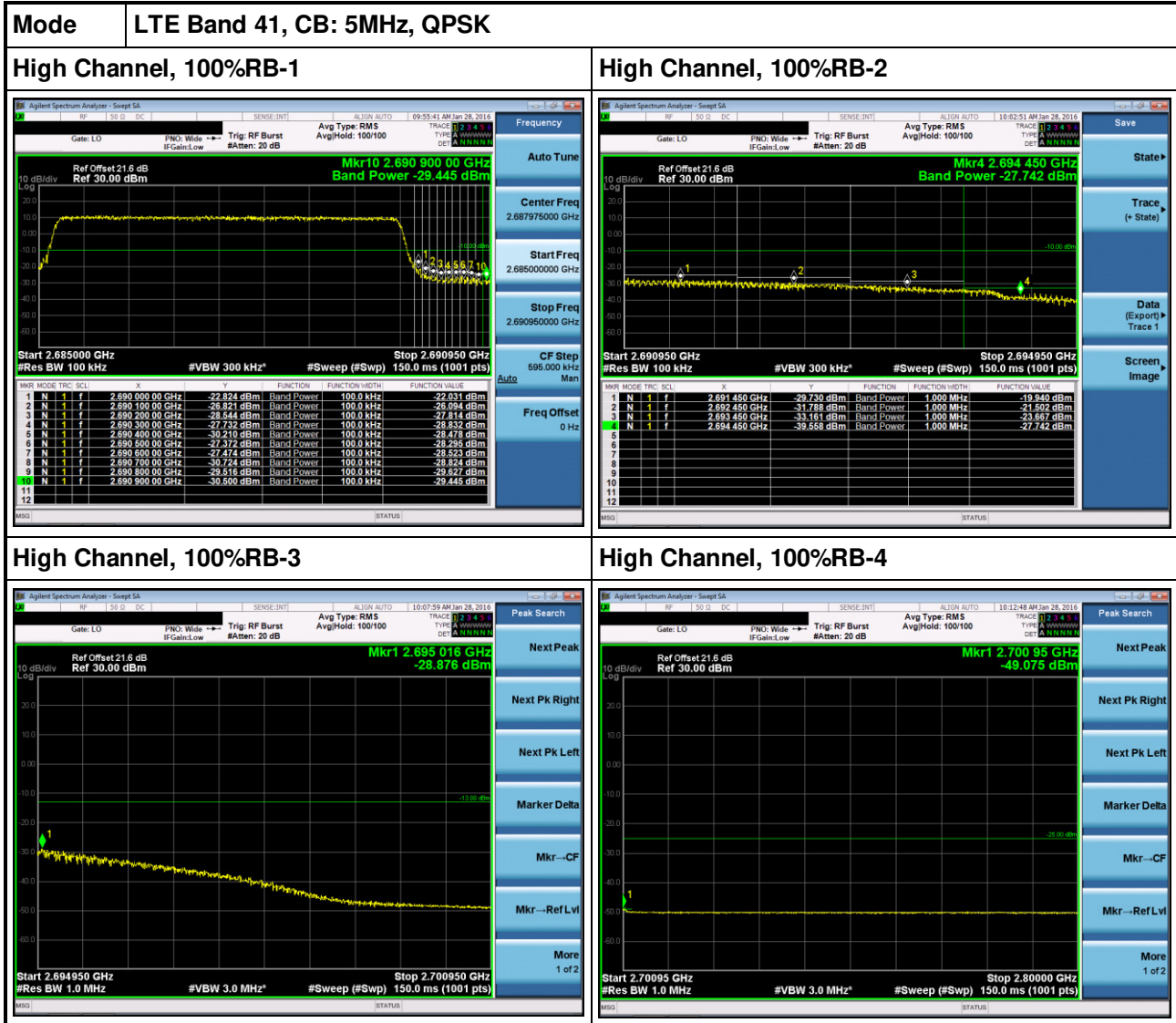


High Channel, 1RB-3



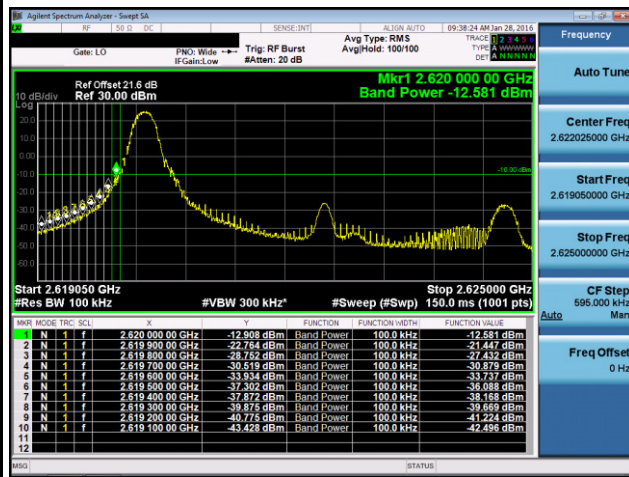
High Channel, 1RB-4





Mode LTE Band 41, CB: 5MHz, 16QAM

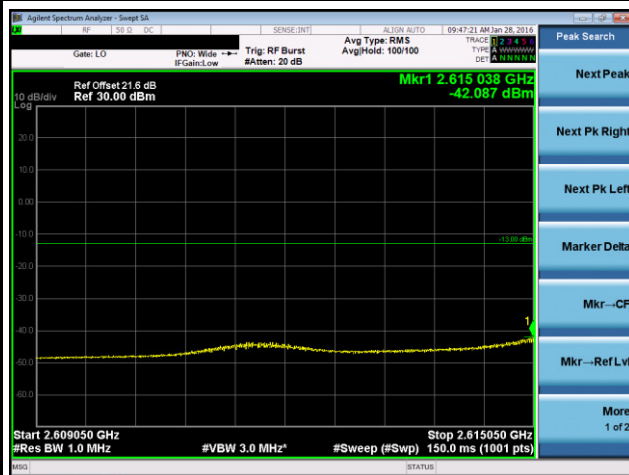
Low Channel, 1RB-1



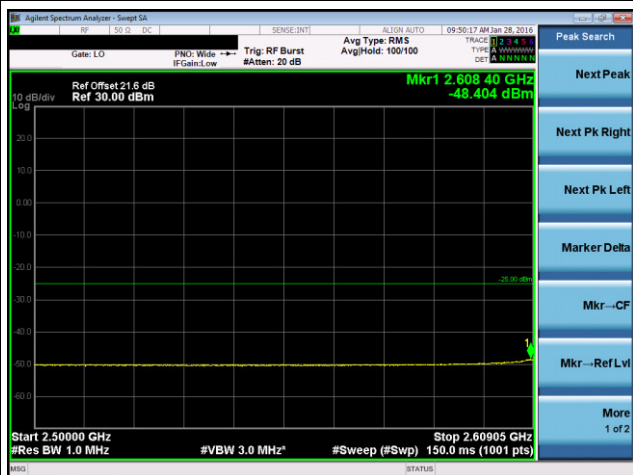
Low Channel, 1RB-2

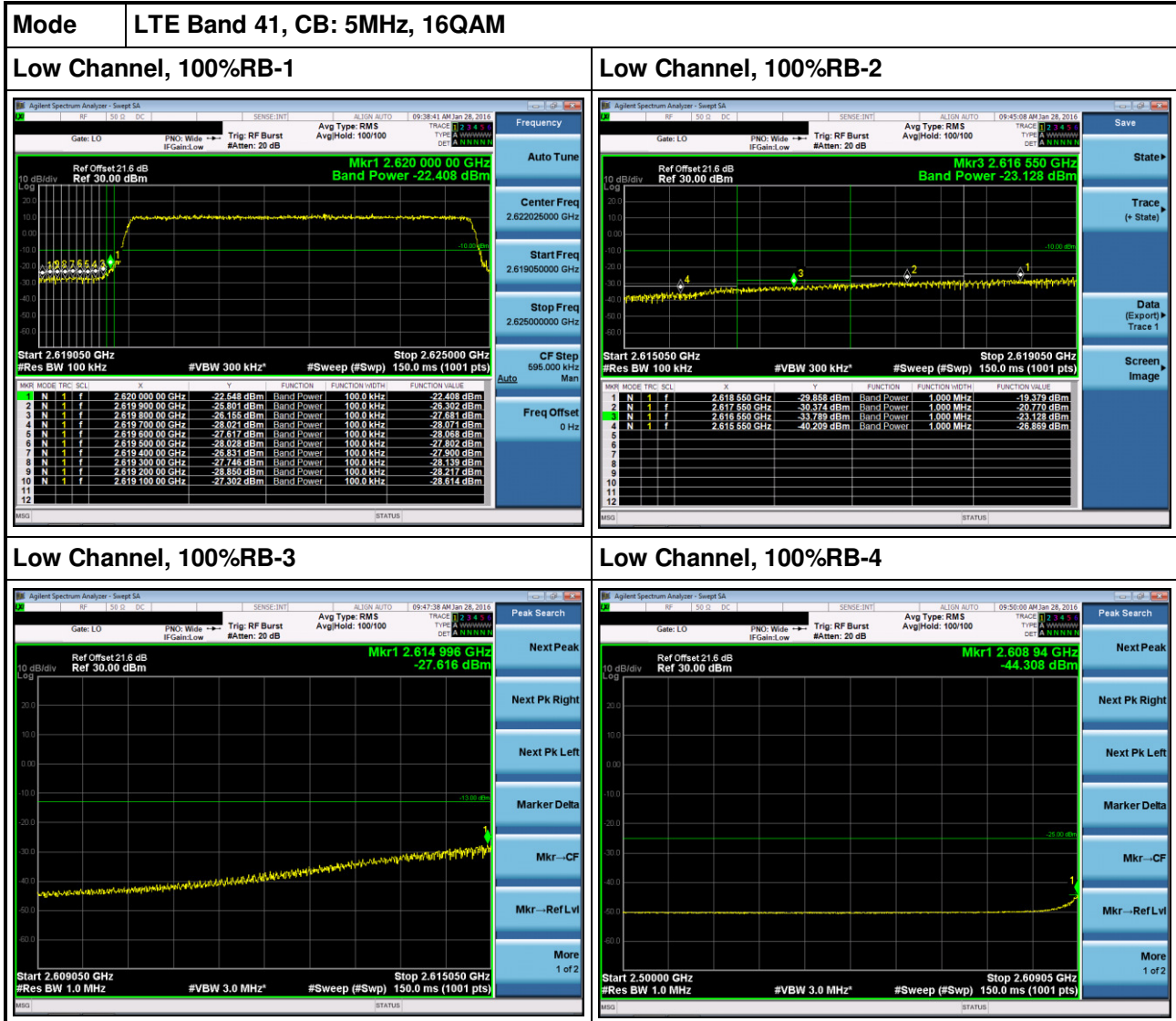


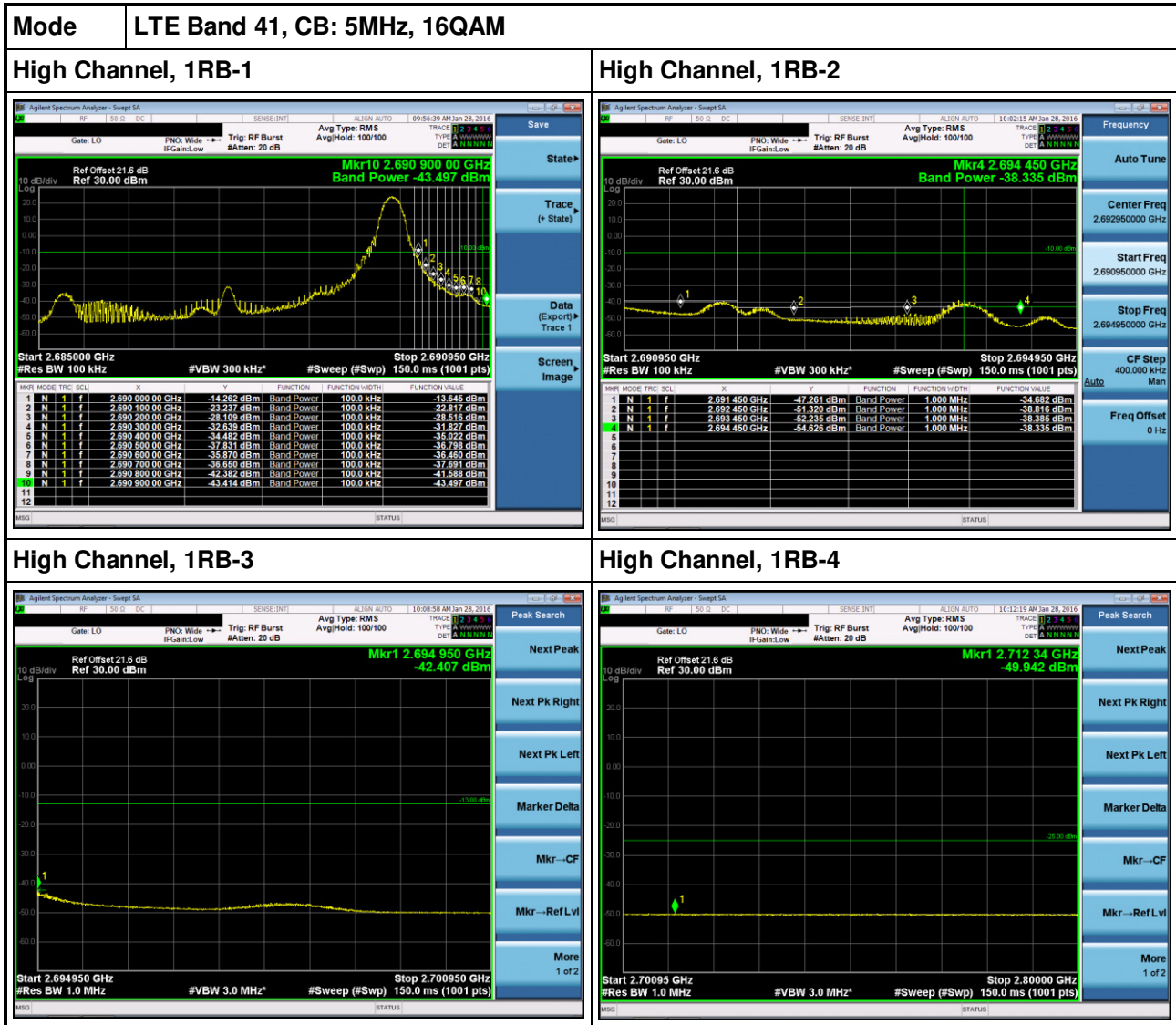
Low Channel, 1RB-3



Low Channel, 1RB-4

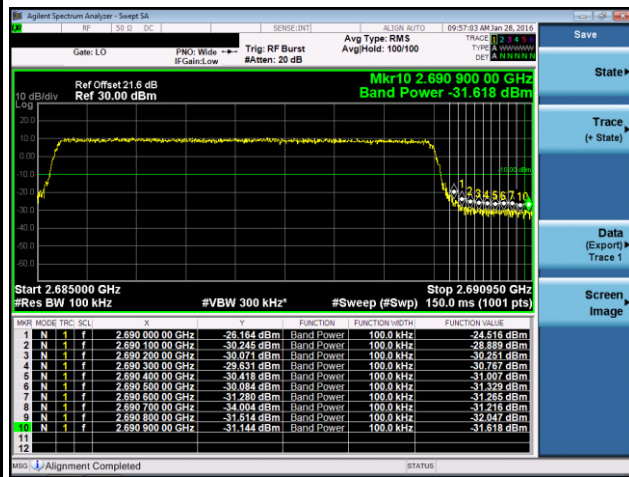




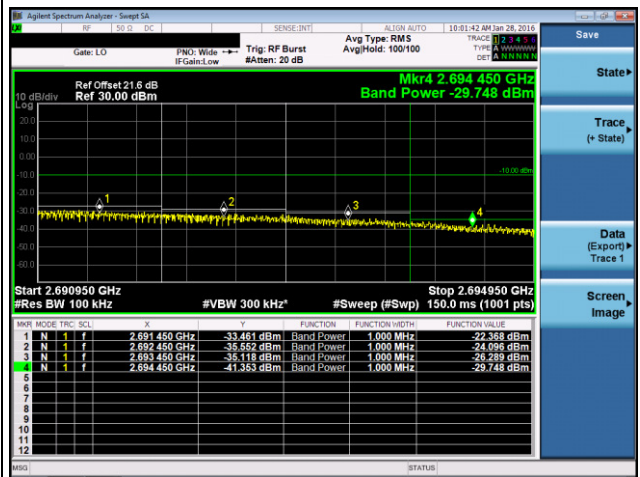


Mode LTE Band 41, CB: 5MHz, 16QAM

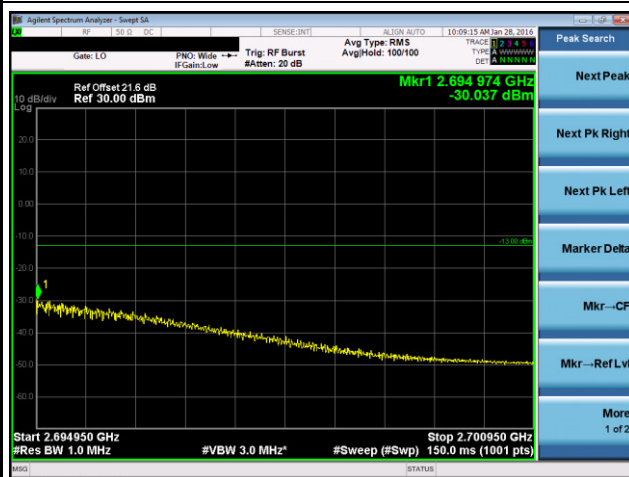
High Channel, 100%RB-1



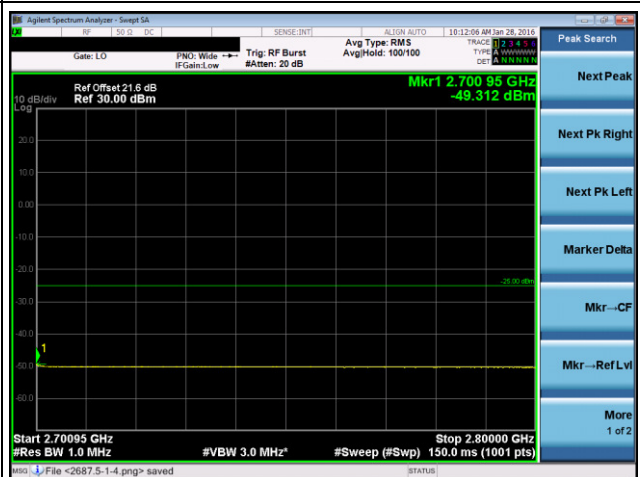
High Channel, 100%RB-2



High Channel, 100%RB-3

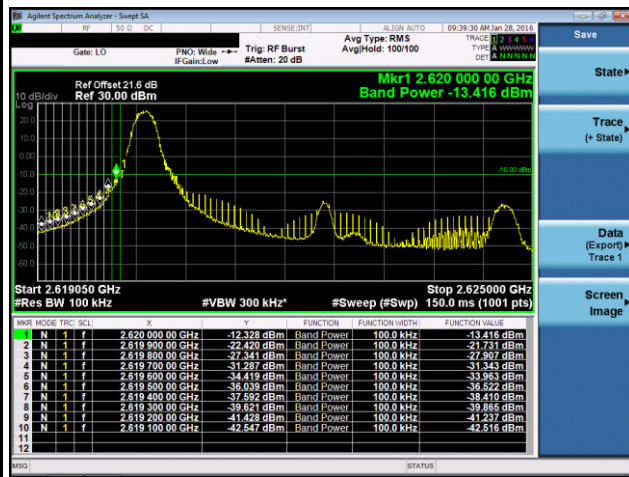


High Channel, 100%RB-4



Mode LTE Band 41, CB: 5MHz, 64QAM

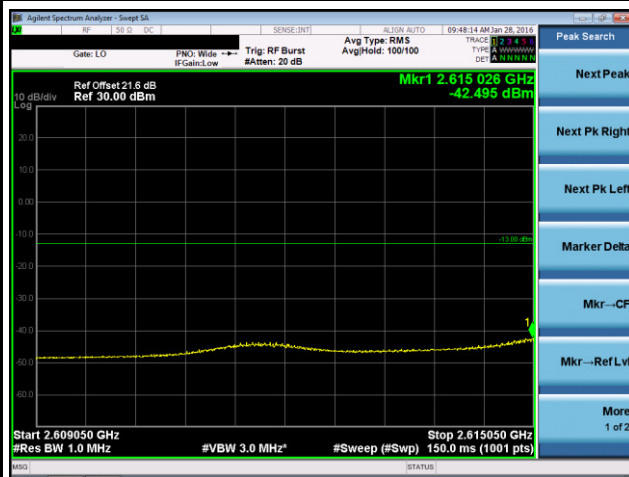
Low Channel, 1RB-1



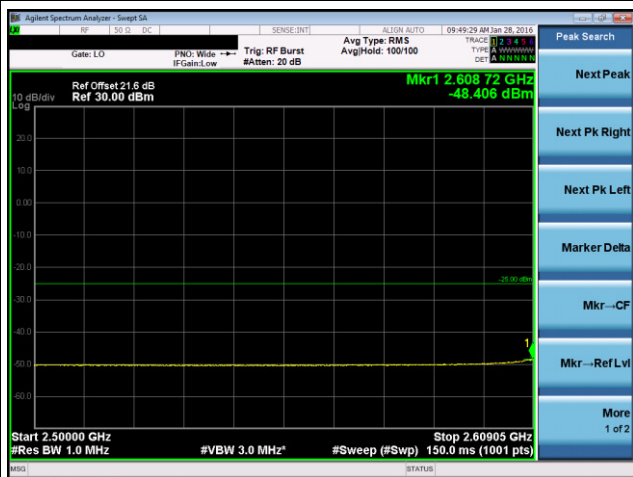
Low Channel, 1RB-2

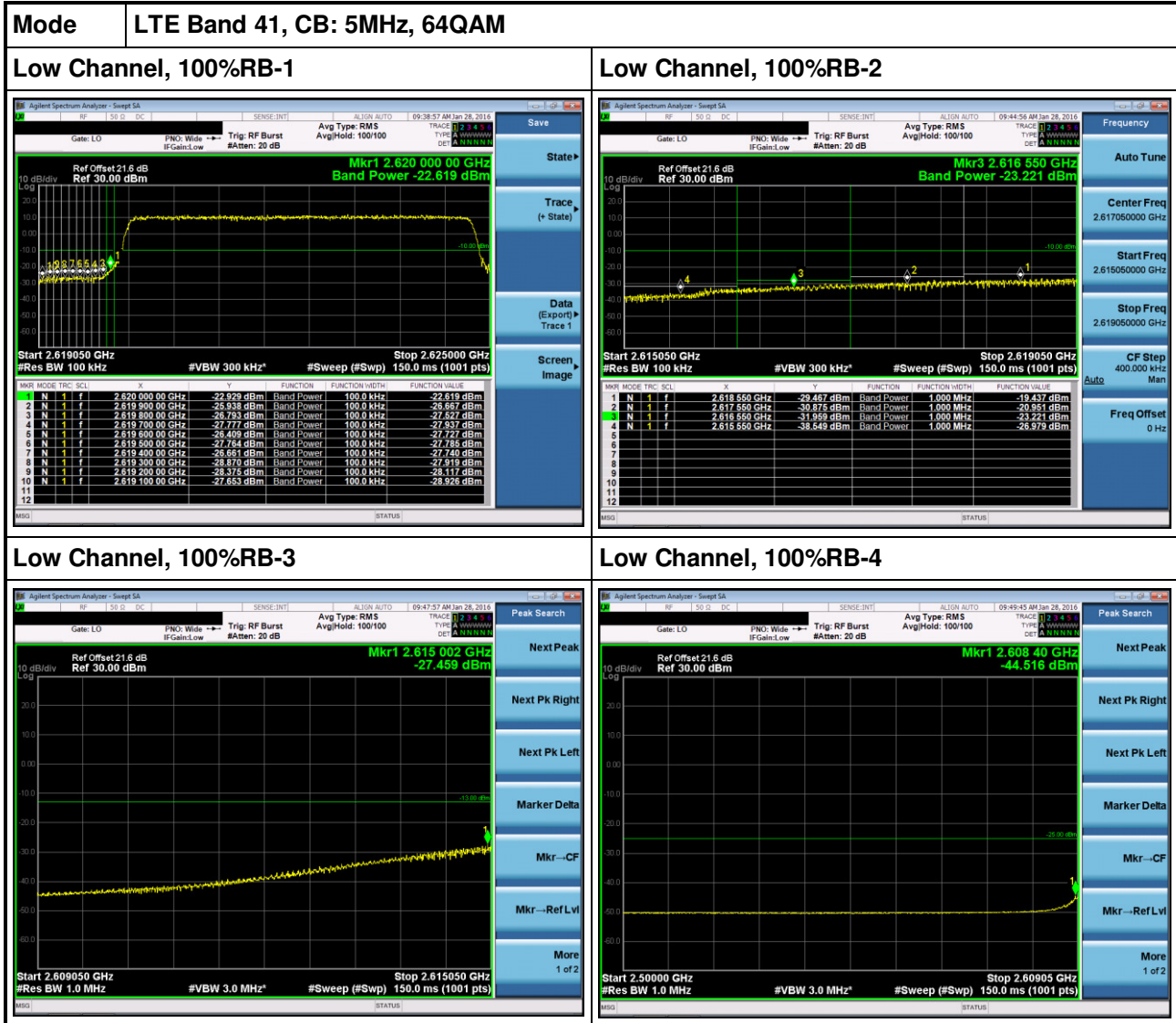


Low Channel, 1RB-3



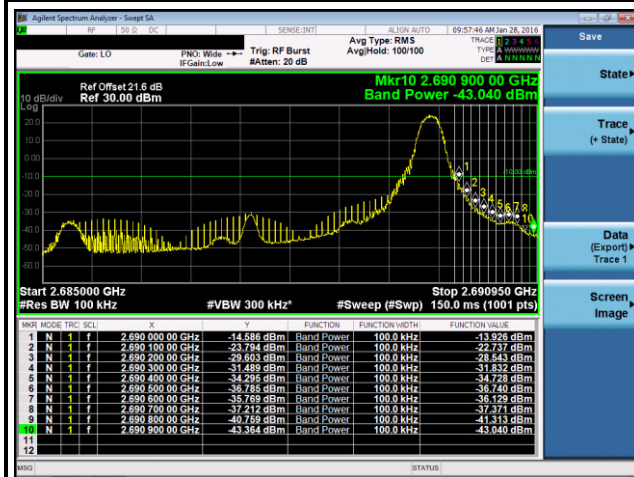
Low Channel, 1RB-4



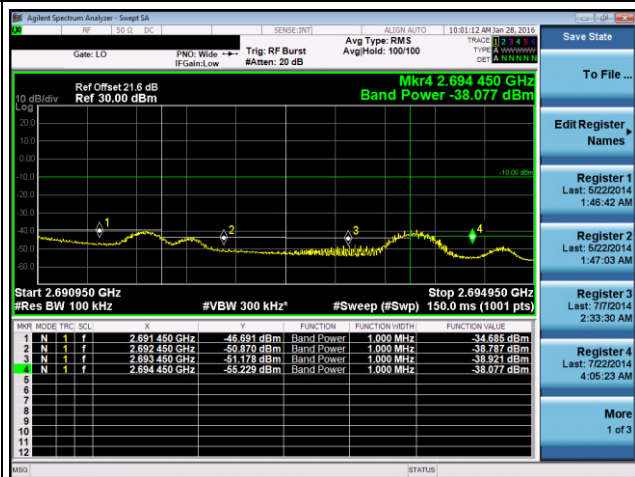


Mode LTE Band 41, CB: 5MHz, 64QAM

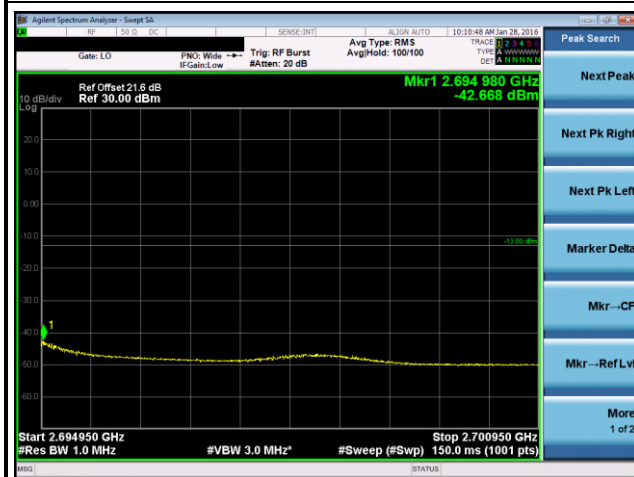
High Channel, 1RB-1



High Channel, 1RB-2



High Channel, 1RB-3



High Channel, 1RB-4

