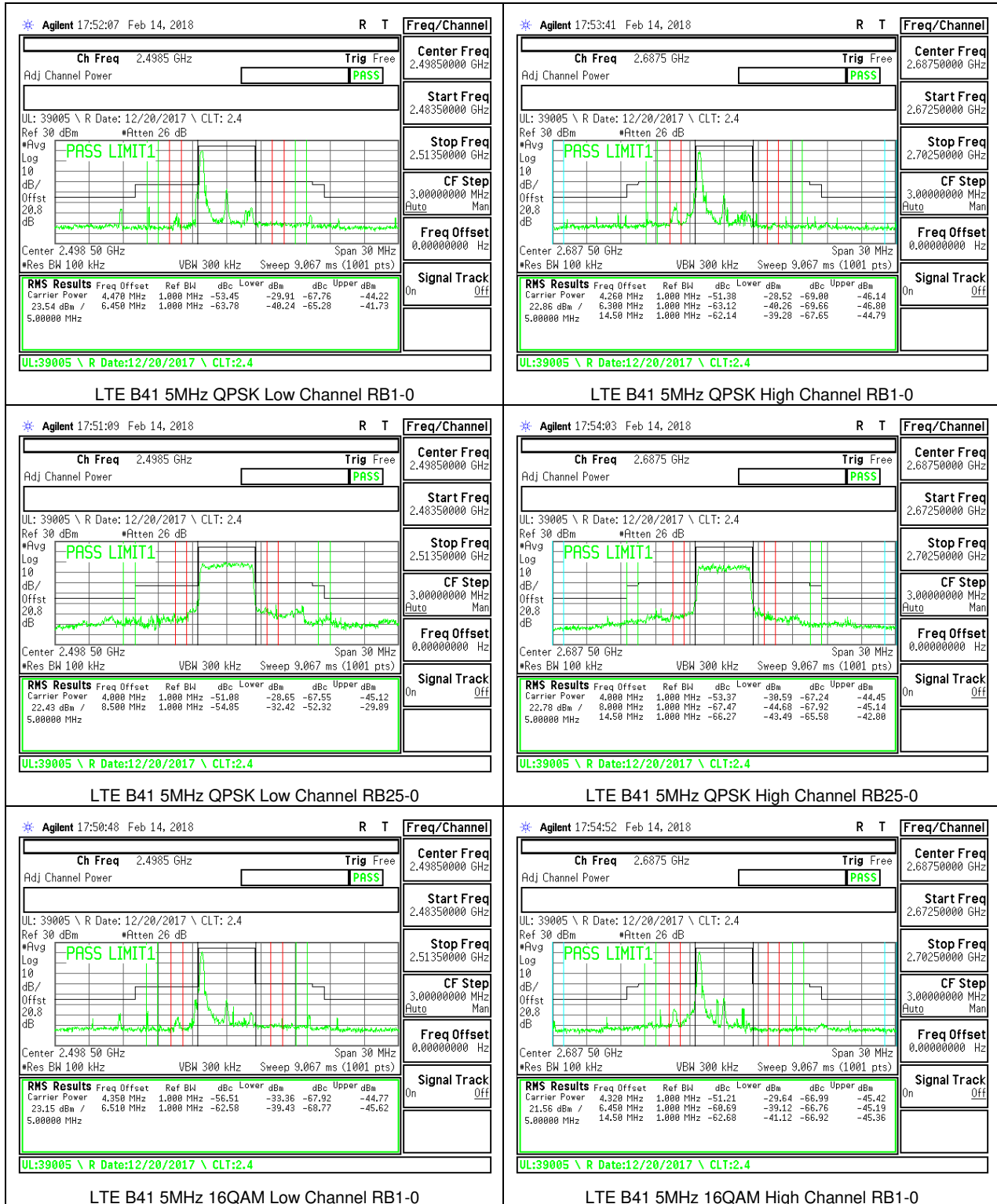
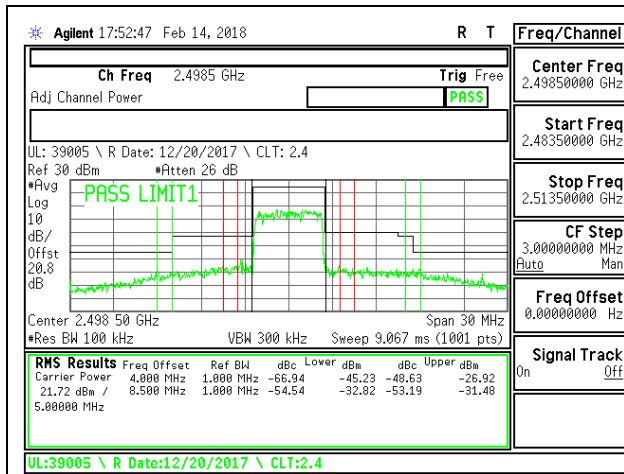
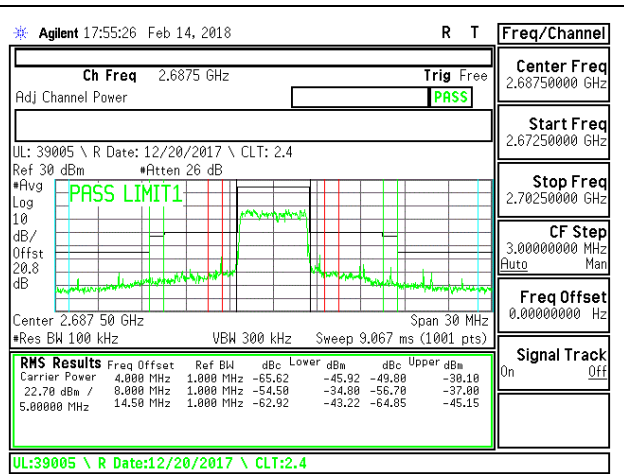


8.2.10. LTE BAND 41 ADJACENT CHANNEL POWER

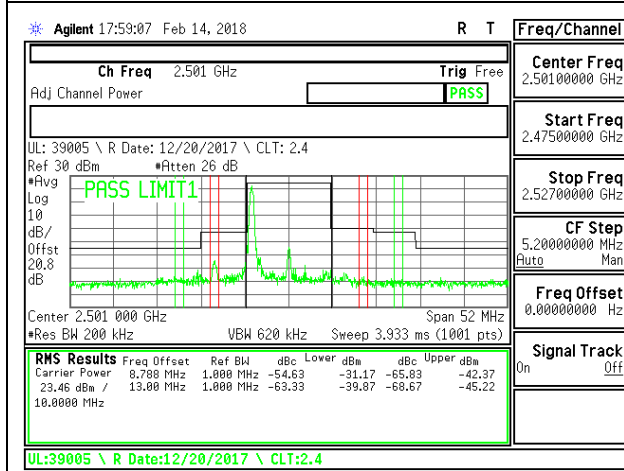




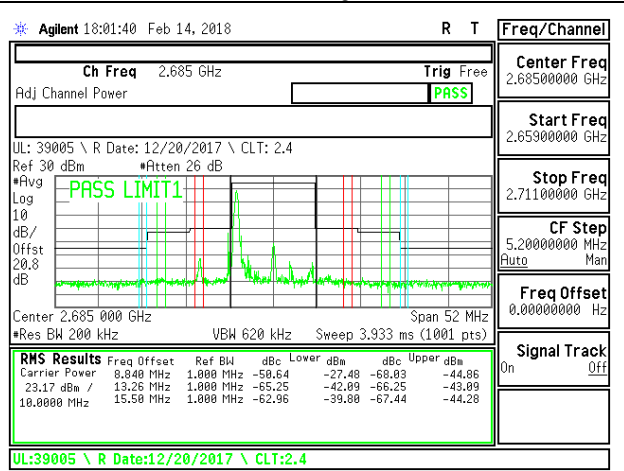
LTE B41 5MHz 16QAM Low Channel RB25-0



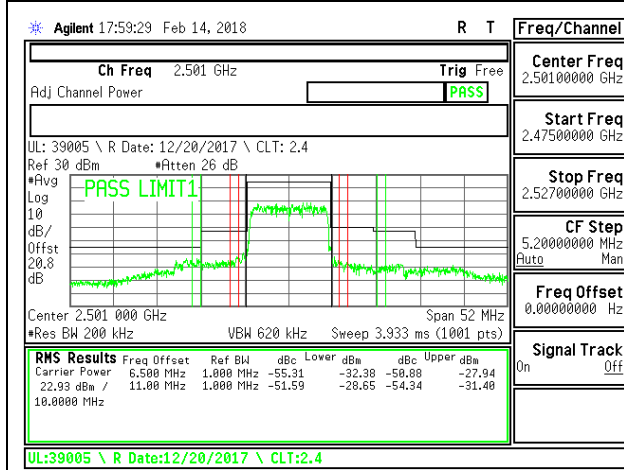
LTE B41 5MHz 16QAM High Channel RB25-0



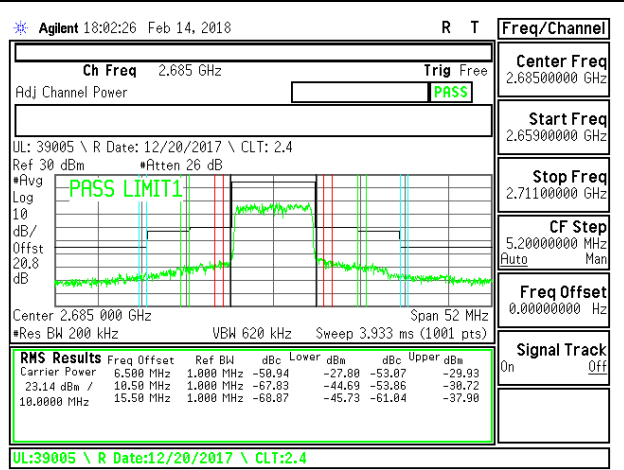
LTE B41 10MHz QPSK Low Channel RB1-0



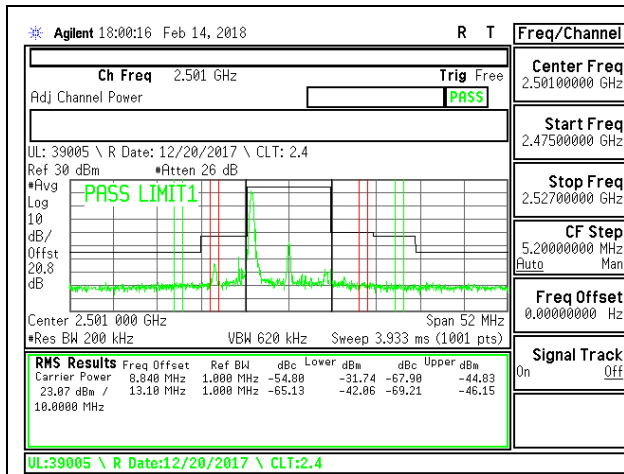
LTE B41 10MHz QPSK High Channel RB1-0



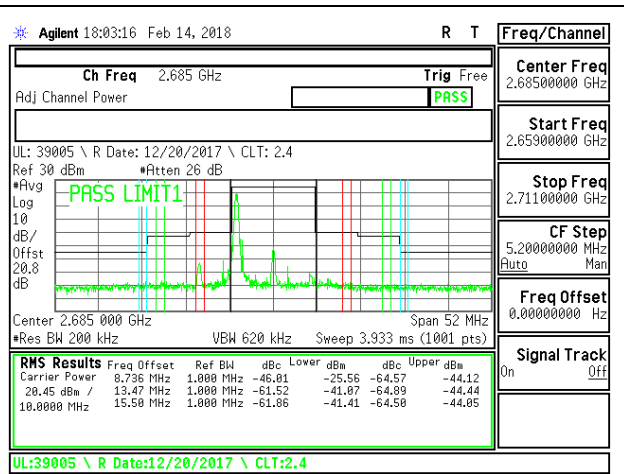
LTE B41 10MHz QPSK Low Channel RB50-0



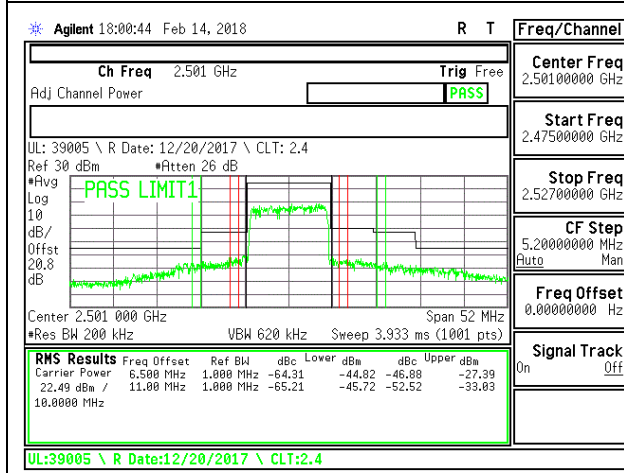
LTE B41 10MHz QPSK High Channel RB50-0



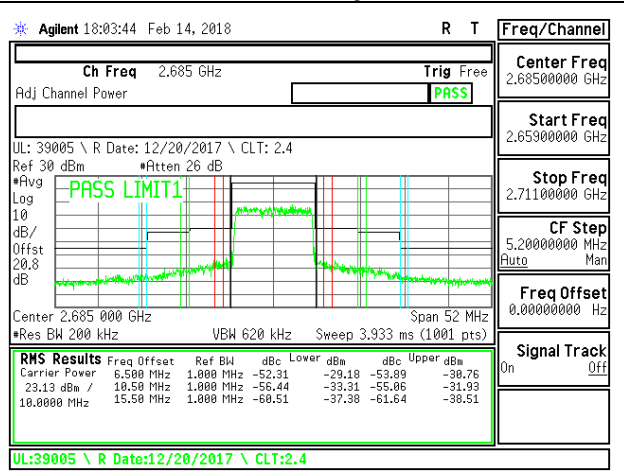
LTE B41 10MHz 16QAM Low Channel RB1-0



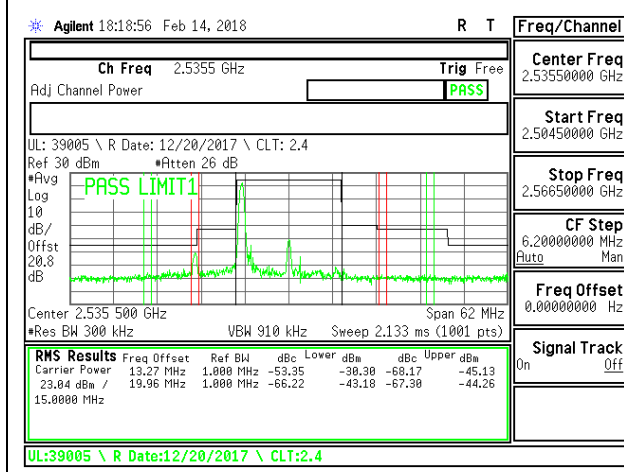
LTE B41 10MHz 16QAM High Channel RB1-0



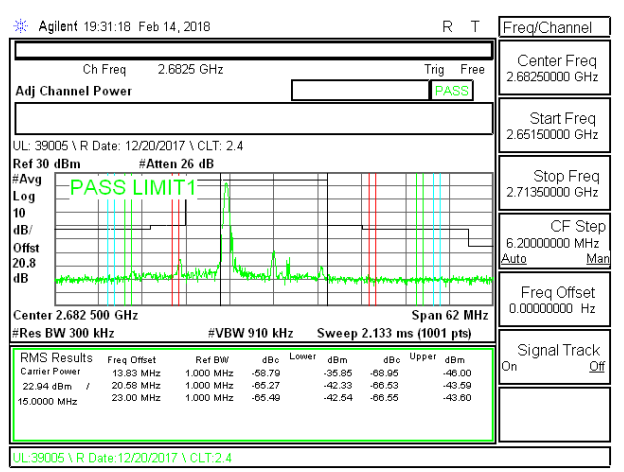
LTE B41 10MHz 16QAM Low Channel RB50-0



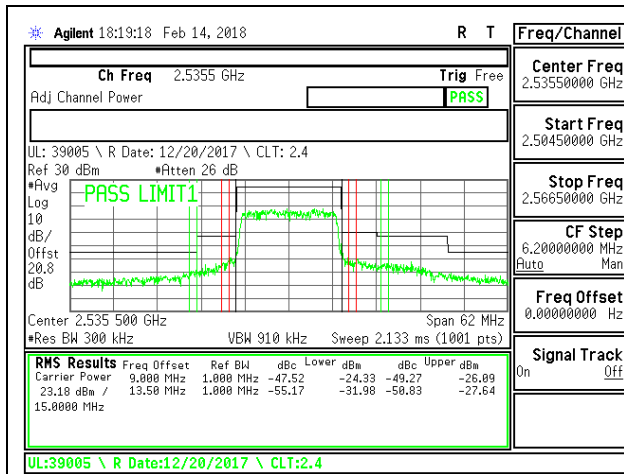
LTE B41 10MHz 16QAM High Channel RB50-0



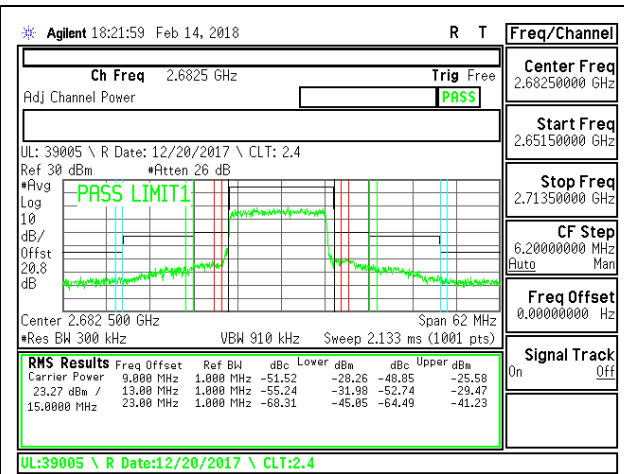
LTE B41 15MHz QPSK Low Channel RB1-0



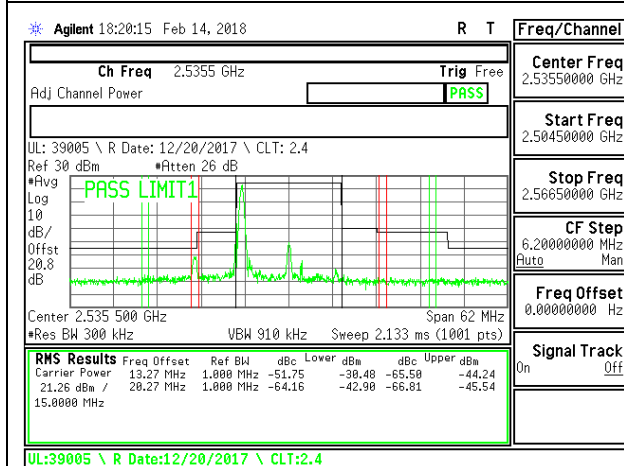
LTE B41 15MHz QPSK High Channel RB1-0



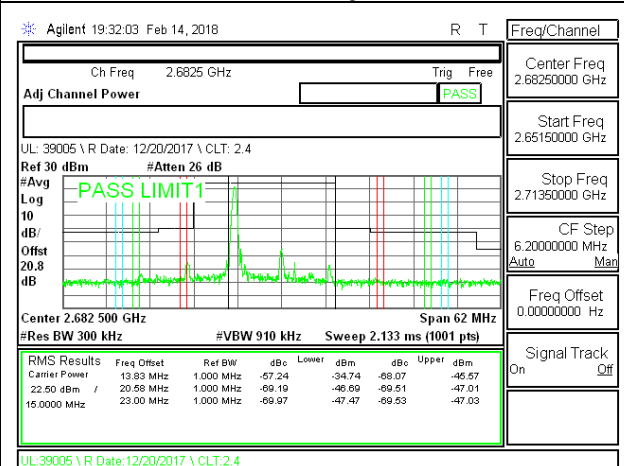
LTE B41 15MHz QPSK Low Channel RB75-0



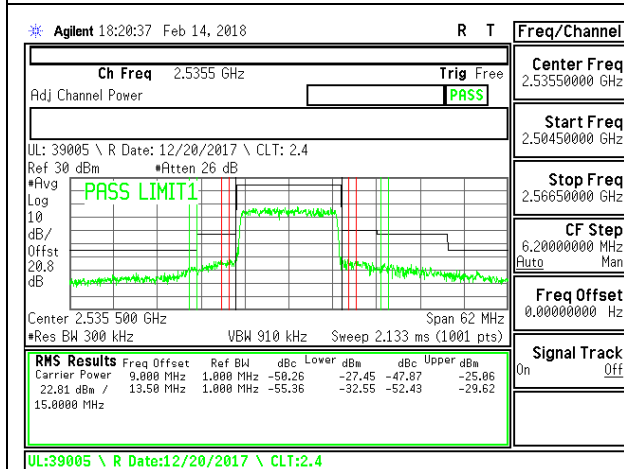
LTE B41 15MHz QPSK High Channel RB75-0



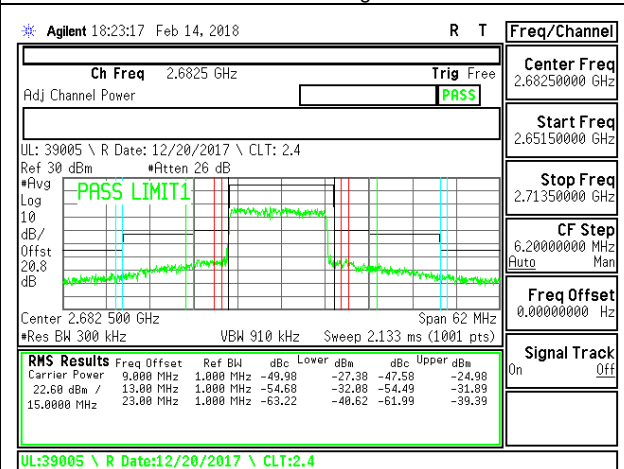
LTE B41 15MHz 16QAM Low Channel RB1-0



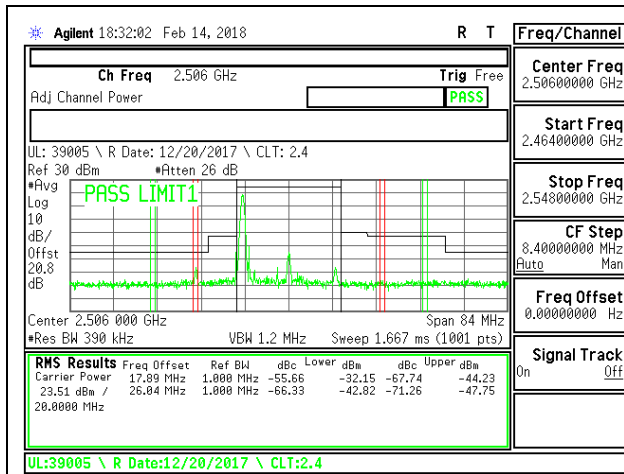
LTE B41 15MHz 16QAM High Channel RB1-0



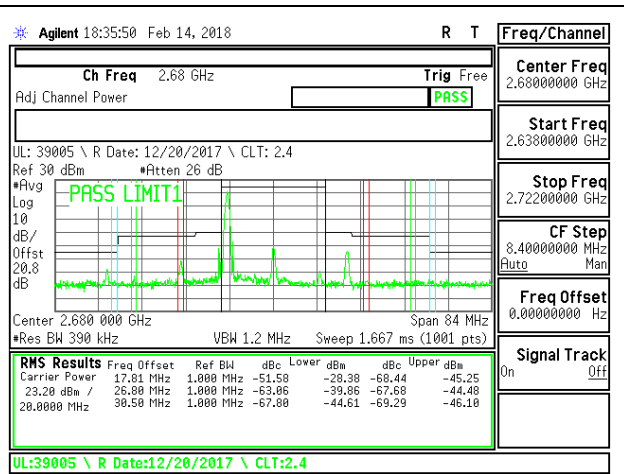
LTE B41 15MHz 16QAM Low Channel RB75-0



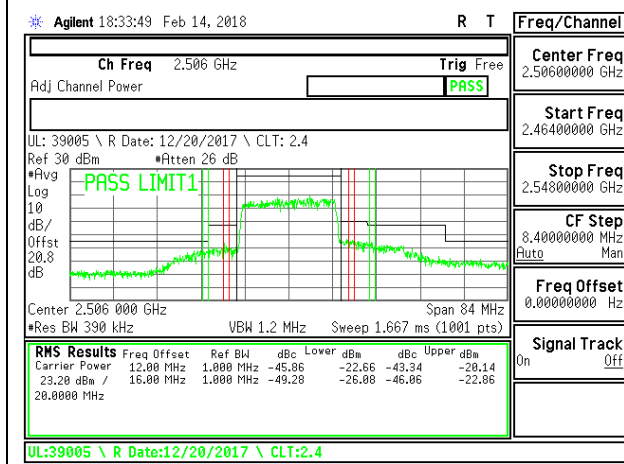
LTE B41 15MHz 16QAM High Channel RB75-0



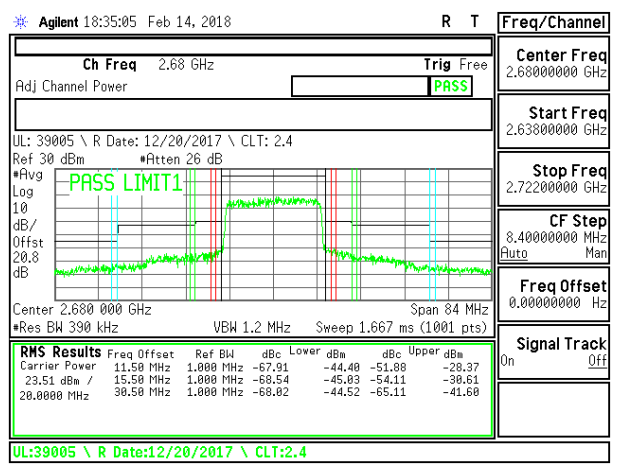
LTE B41 20MHz QPSK Low Channel RB1-0



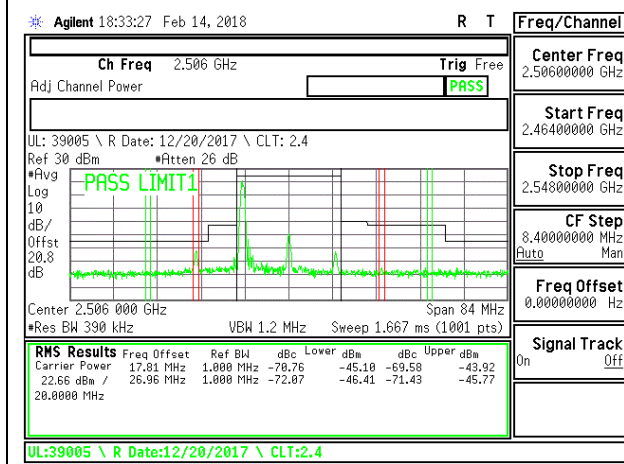
LTE B41 20MHz QPSK High Channel RB1-0



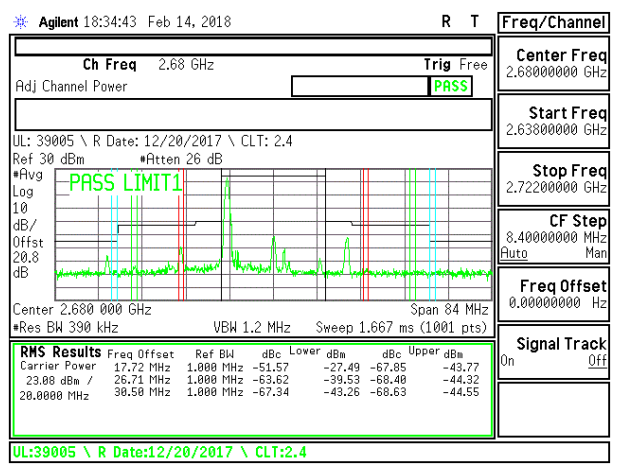
LTE B41 20MHz QPSK Low Channel RB100-0



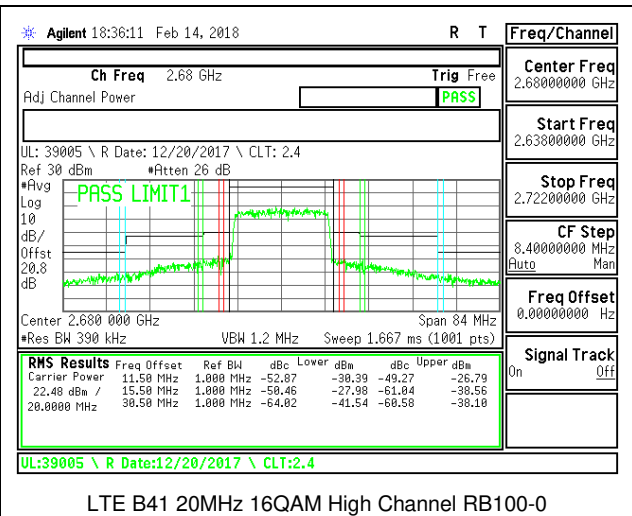
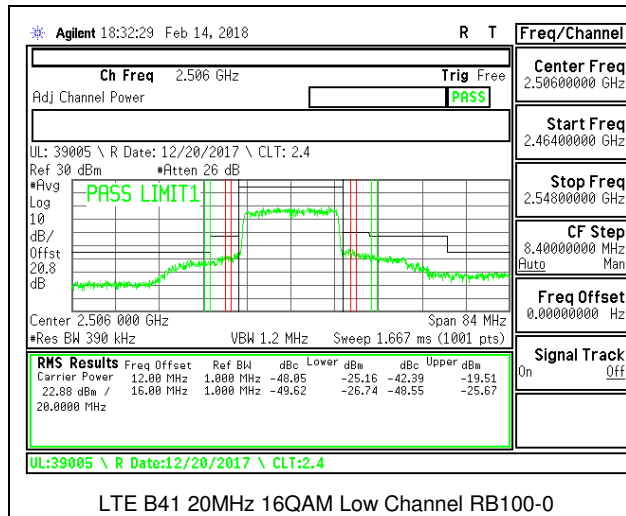
LTE B41 20MHz QPSK High Channel RB100-0



LTE B41 20MHz 16QAM Low Channel RB1-0



LTE B41 20MHz 16QAM High Channel RB1-0



## 8.3. OUT OF BAND EMISSIONS

### RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53

### LIMITS

FCC: §22.917, §24.238, §27.53 (c), (g), (h)

The minimum permissible attenuation level of any spurious emissions is  $43 + 10 \log (P)$  dB where transmitting power (P) in Watts.

FCC: §27.53 (a) (Band 30)

The minimum permissible attenuation level of any spurious emissions is  $70 + 10 \log (P)$  dB where transmitting power (P) in Watts.

FCC: §27.53 (m) (Band 7, 41)

The minimum permissible attenuation level of any spurious emissions is  $55 + 10 \log (P)$  dB where transmitting power (P) in Watts.

### TEST PROCEDURE

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

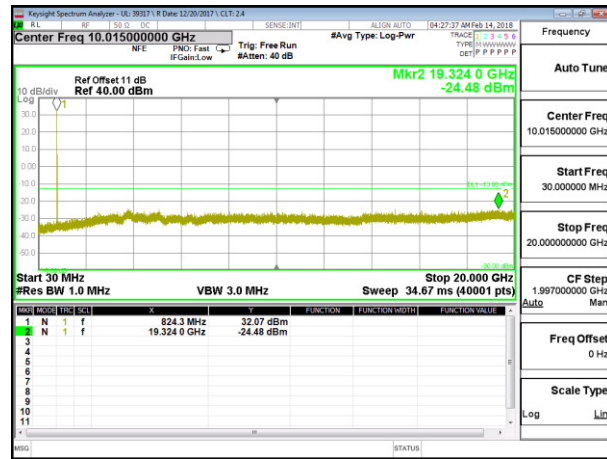
For each out of band emissions measurement:

- Set display line at -13 dBm, -25dBm and -40dBm according to the band Limit
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.  
(NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

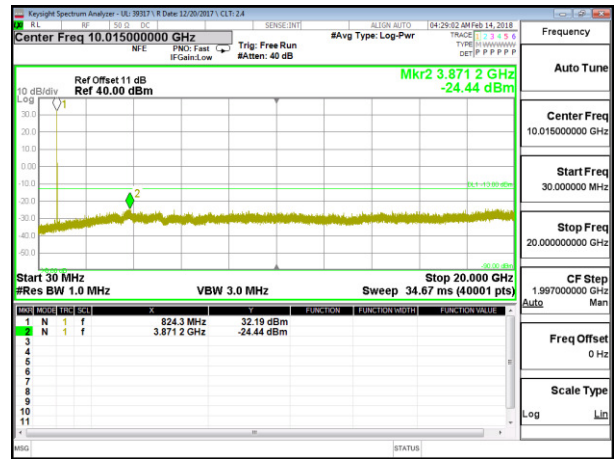
### MODES TESTED

- GSM 850
- GSM 1900
- WCDM Band 5
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 17
- LTE Band 41

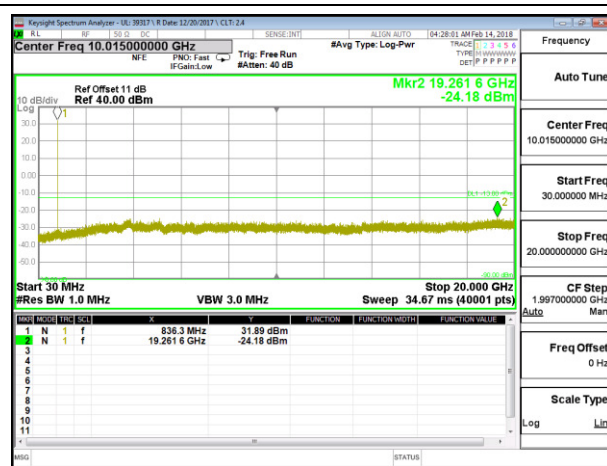
8.3.1. GSM 850MHz



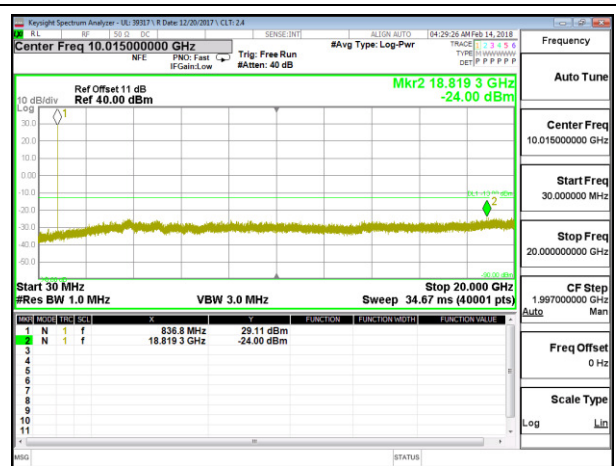
GSM 850MHz GPRS Low Channel



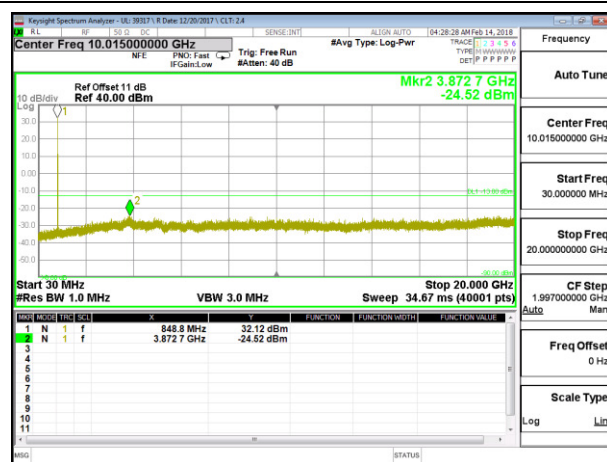
GSM 850MHz EGPRS Low Channel



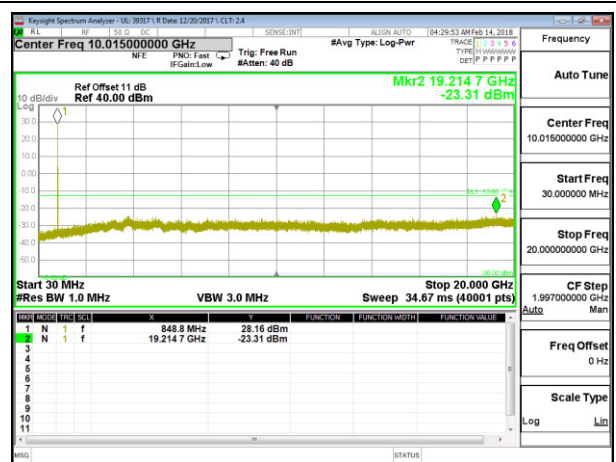
GSM 850MHz GPRS Middle Channel



GSM 850MHz EGPRS Middle Channel



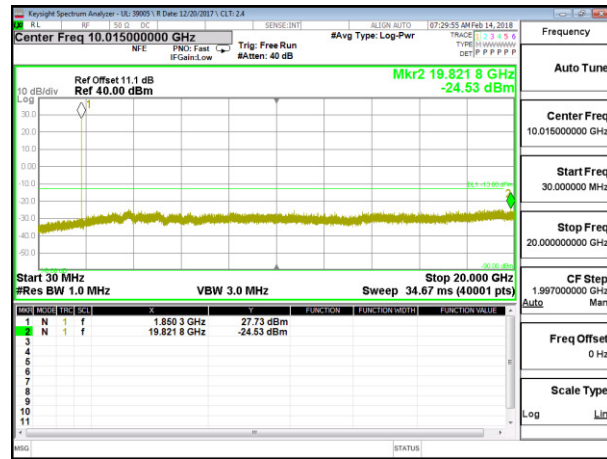
GSM 850MHz GPRS High Channel



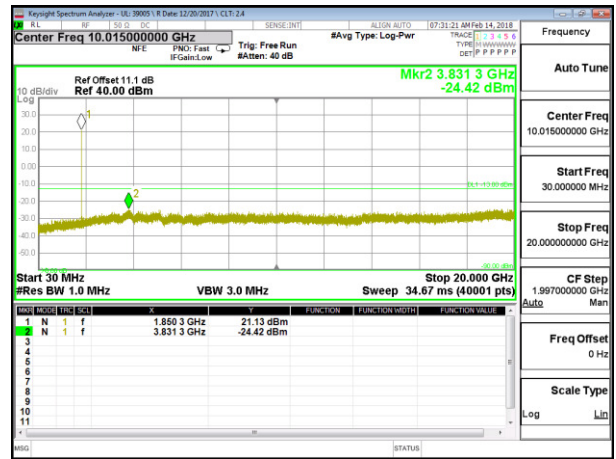
GSM 850MHz EGPRS High Channel



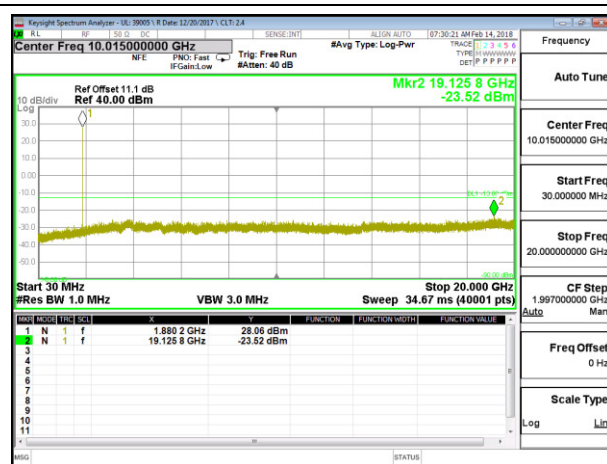
8.3.2. GSM 1900MHz



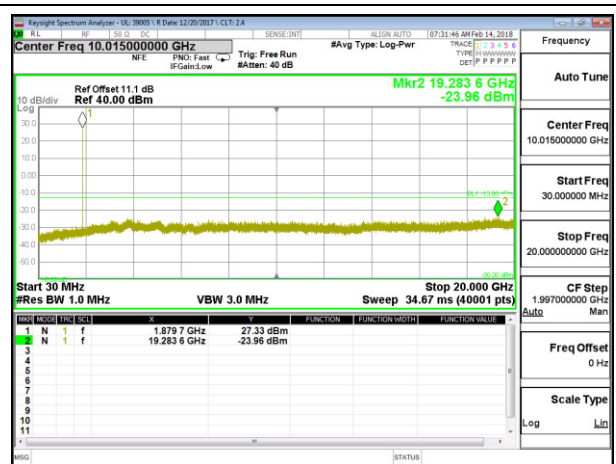
GSM 1900MHz GPRS Low Channel



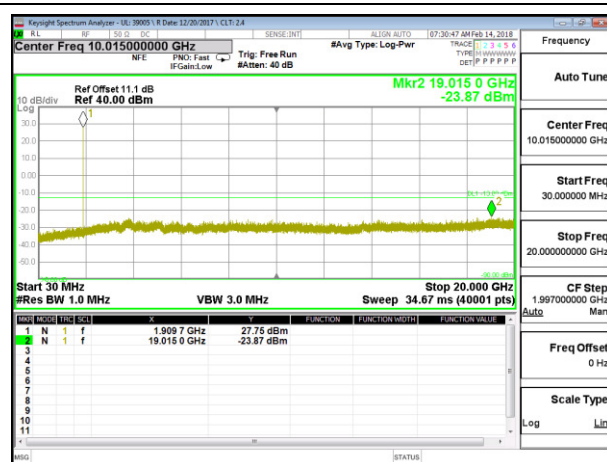
GSM 1900MHz EGPRS Low Channel



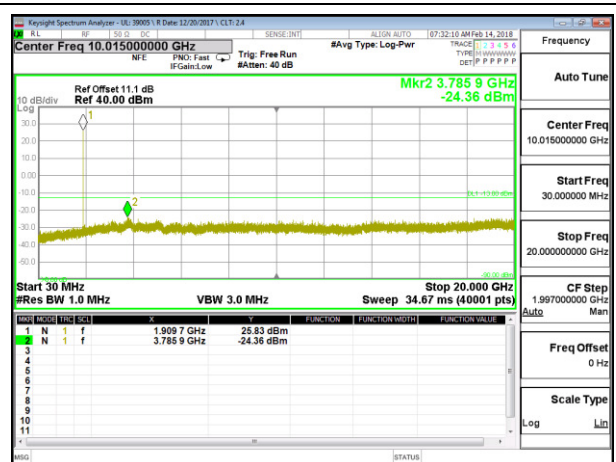
GSM 1900MHz GPRS Middle Channel



GSM 1900MHz EGPRS Middle Channel

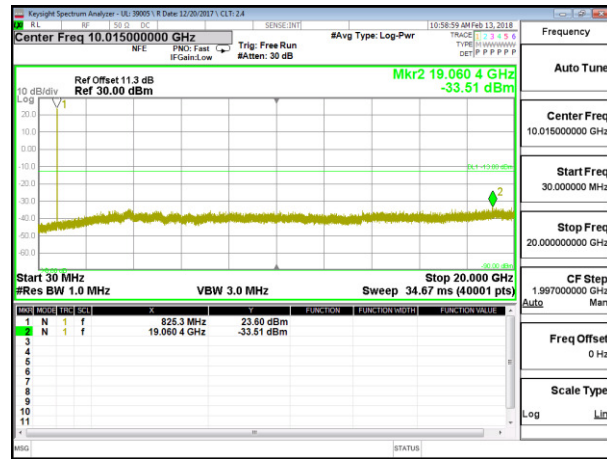


GSM 1900MHz GPRS High Channel

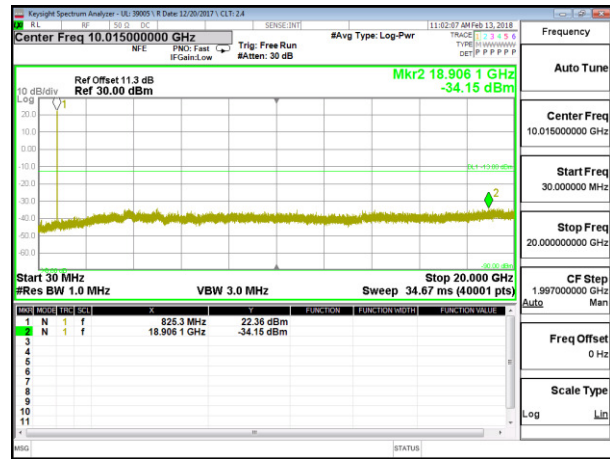


GSM 1900MHz EGPRS High Channel

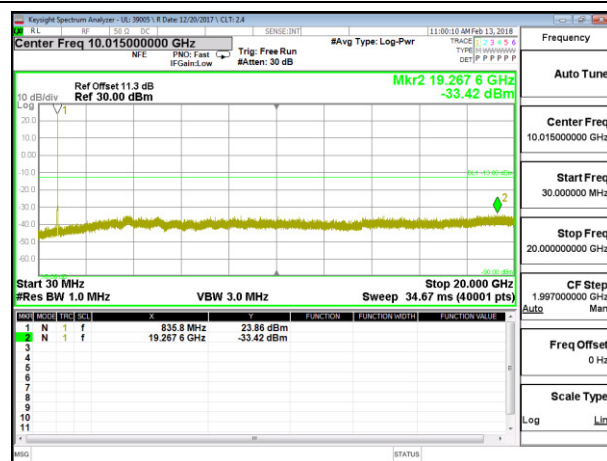
8.3.3. WCDMA BAND 5



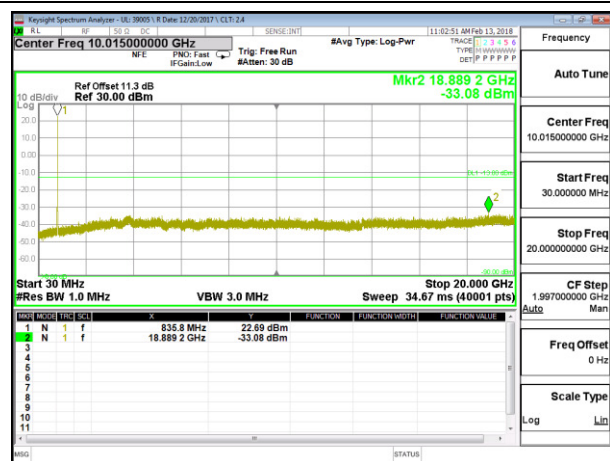
WCDMA Band 5 Rel 99 Low Channel



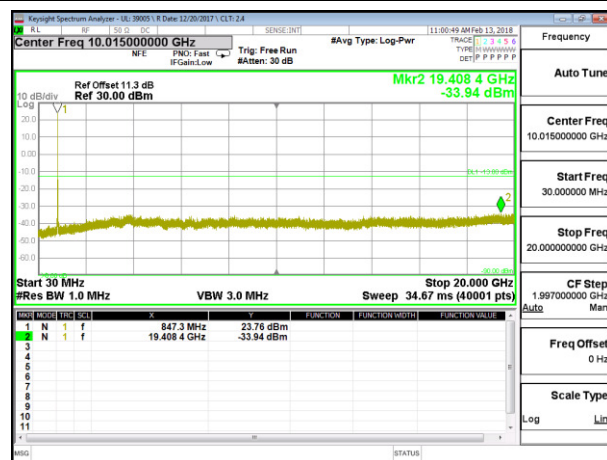
WCDMA Band 5 HSDPA Low Channel



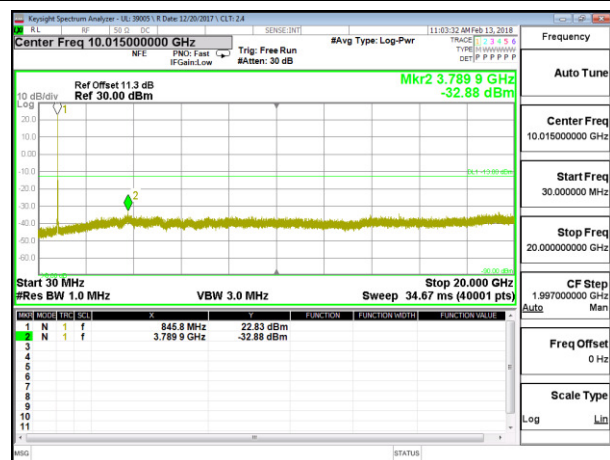
WCDMA Band 5 Rel 99 Middle Channel



WCDMA Band 5 HSDPA Middle Channel

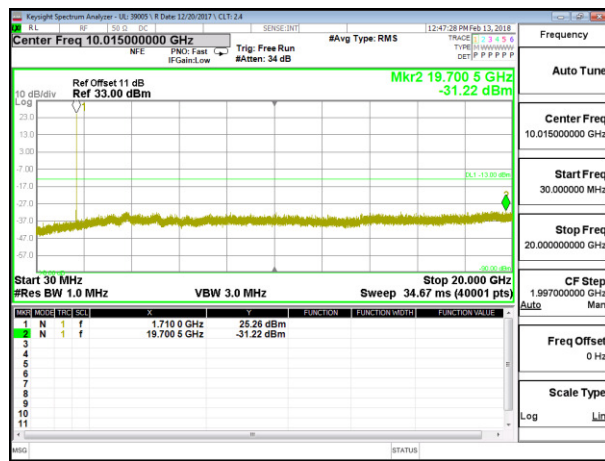


WCDMA Band 5 Rel 99 High Channel

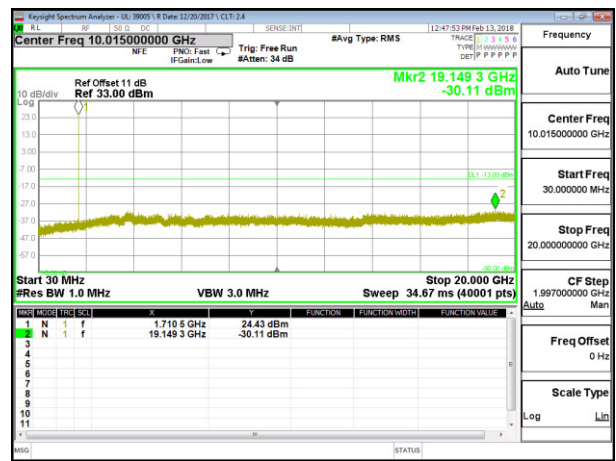


WCDMA Band 5 HSDPA High Channel

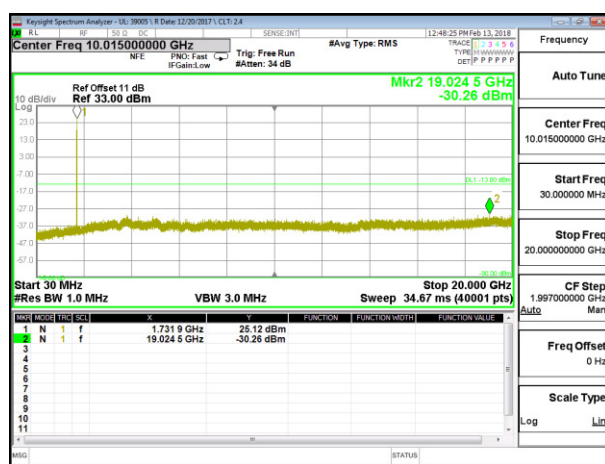
8.3.4. LTE BAND 4



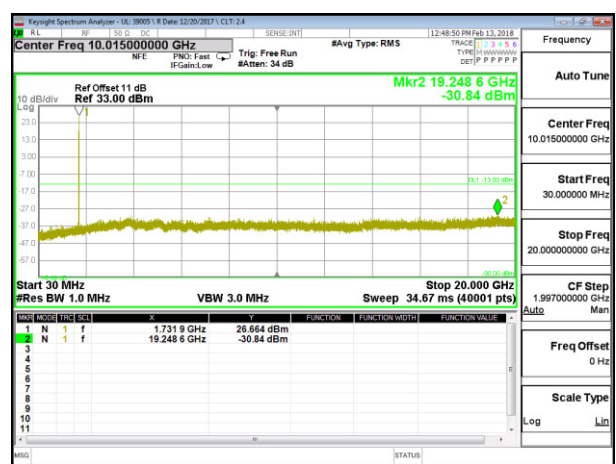
LTE B4 1.4MHz QPSK Low Channel RB1-0



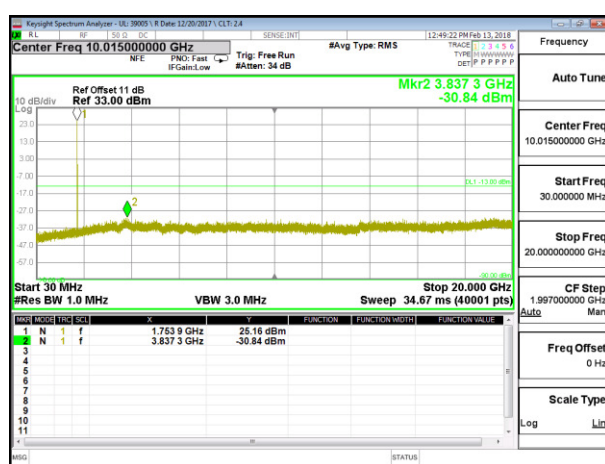
LTE B4 1.4MHz 16QAM Low Channel RB1-0



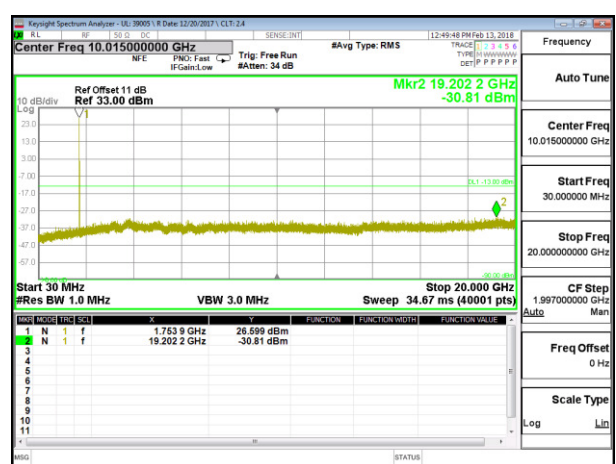
LTE B4 1.4MHz QPSK Middle Channel RB1-0



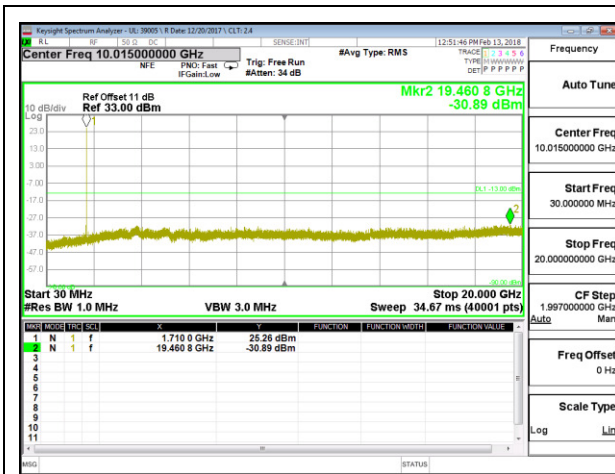
LTE B4 1.4MHz 16QAM Middle Channel RB1-0



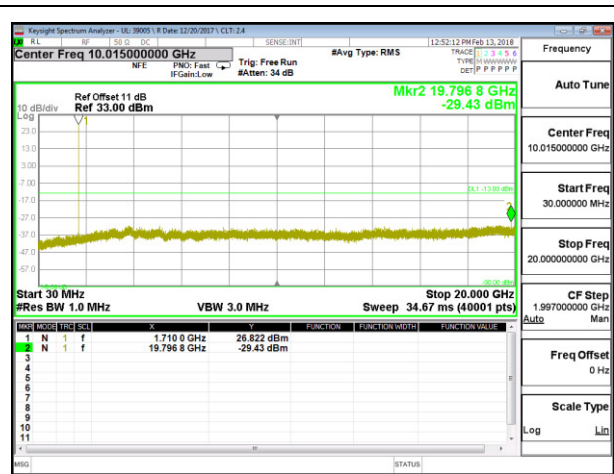
LTE B4 1.4MHz QPSK High Channel RB1-0



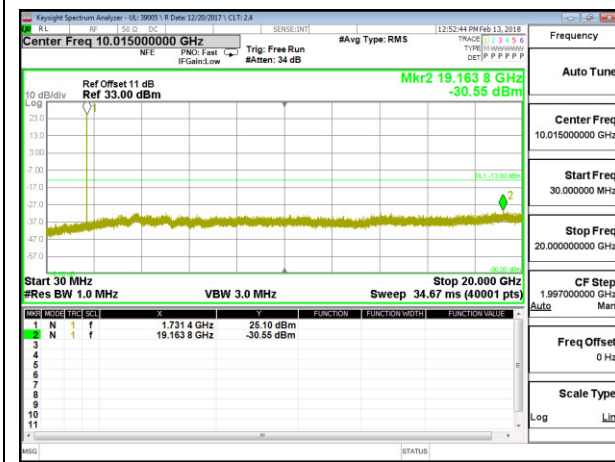
LTE B4 1.4MHz 16QAM High Channel RB1-0



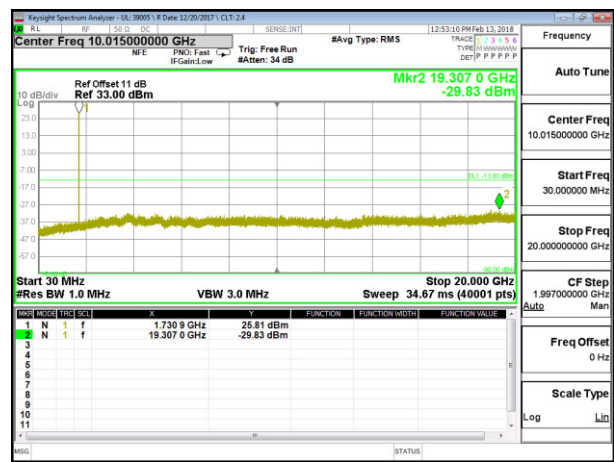
LTE B4 3MHz QPSK Low Channel RB1-0



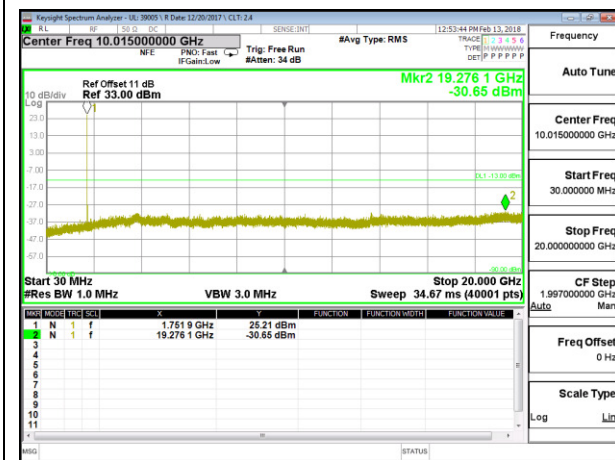
LTE B4 3MHz 16QAM Low Channel RB1-0



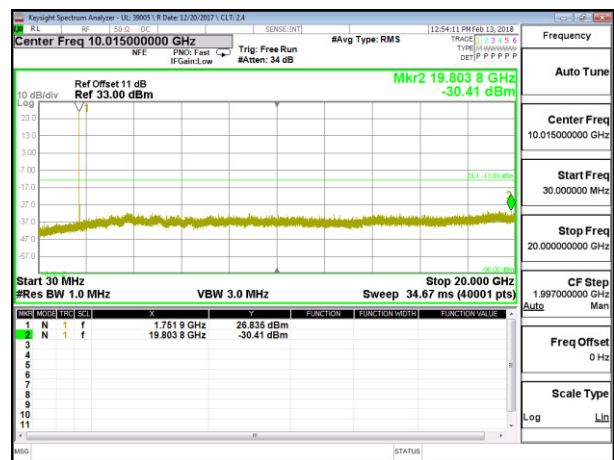
LTE B4 3MHz QPSK Middle Channel RB1-0



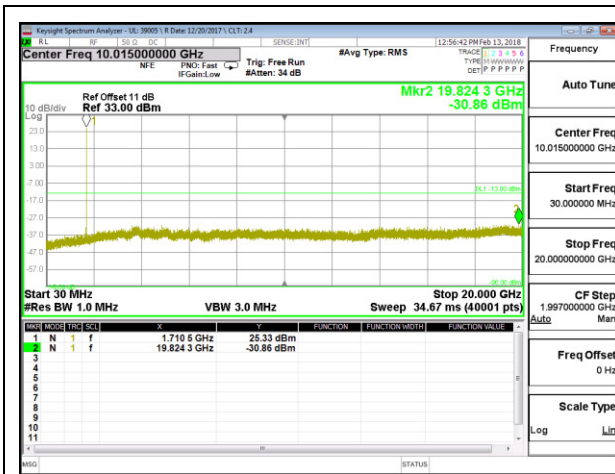
LTE B4 3MHz 16QAM Middle Channel RB1-0



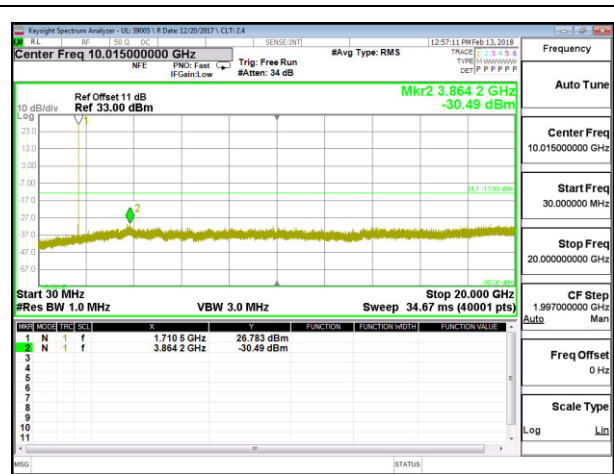
LTE B4 3MHz QPSK High Channel RB1-0



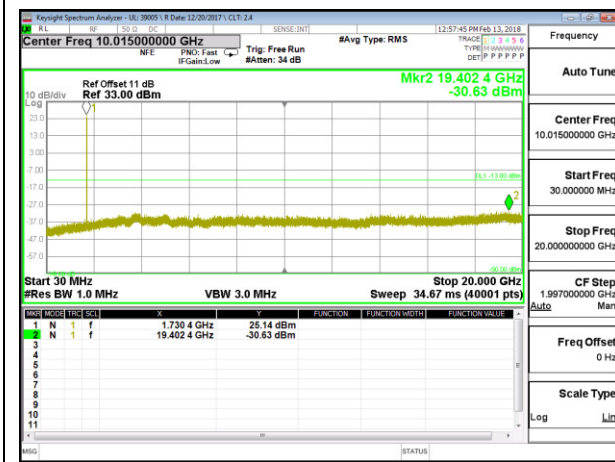
LTE B4 3MHz 16QAM High Channel RB1-0



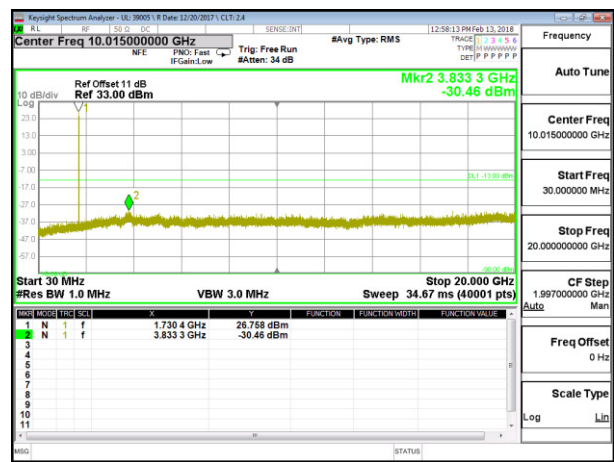
LTE B4 5MHz QPSK Low Channel RB1-0



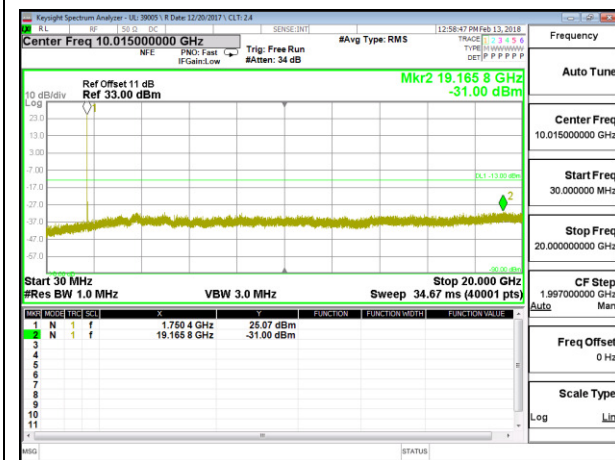
LTE B4 5MHz 16QAM Low Channel RB1-0



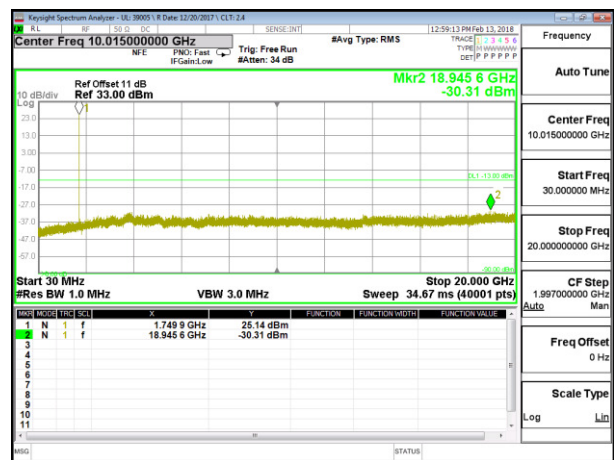
LTE B4 5MHz QPSK Middle Channel RB1-0



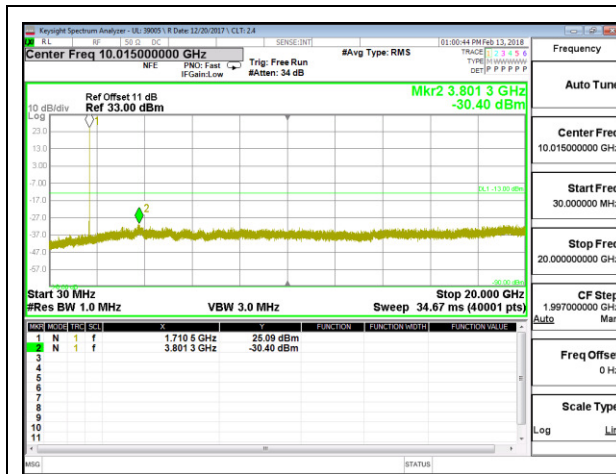
LTE B4 5MHz 16QAM Middle Channel RB1-0



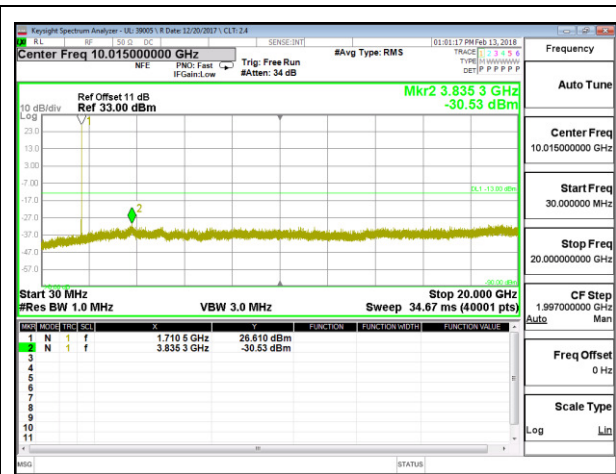
LTE B4 5MHz QPSK High Channel RB1-0



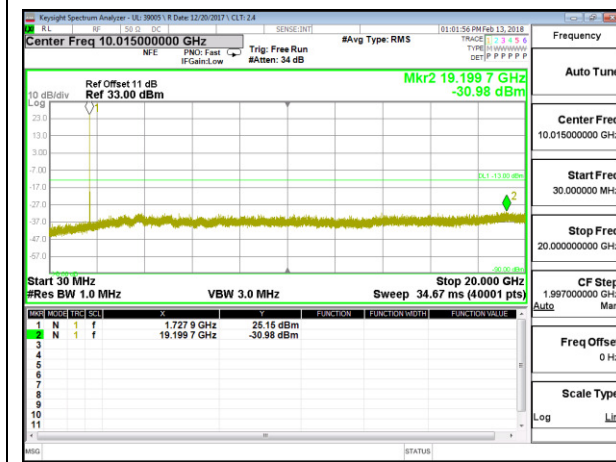
LTE B4 5MHz 16QAM High Channel RB1-0



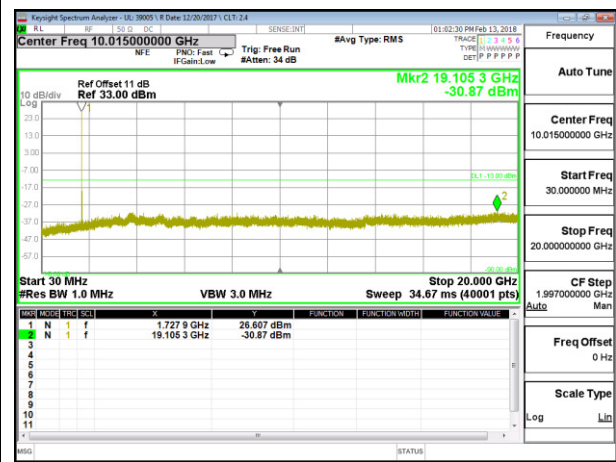
LTE B4 10MHz QPSK Low Channel RB1-0



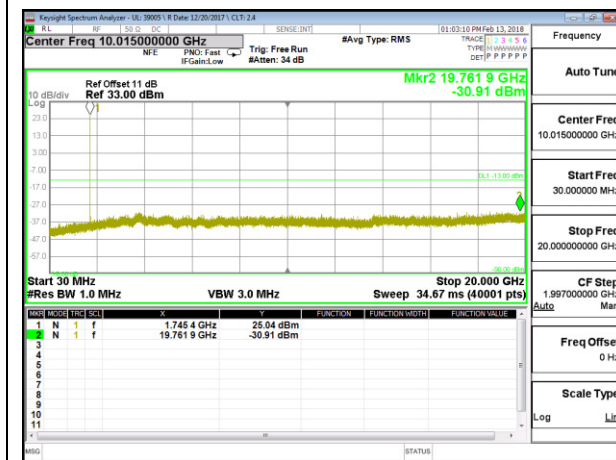
LTE B4 10MHz 16QAM Low Channel RB1-0



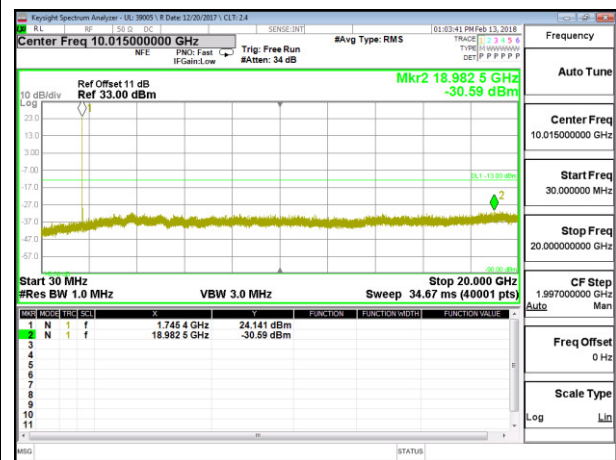
LTE B4 10MHz QPSK Middle Channel RB1-0



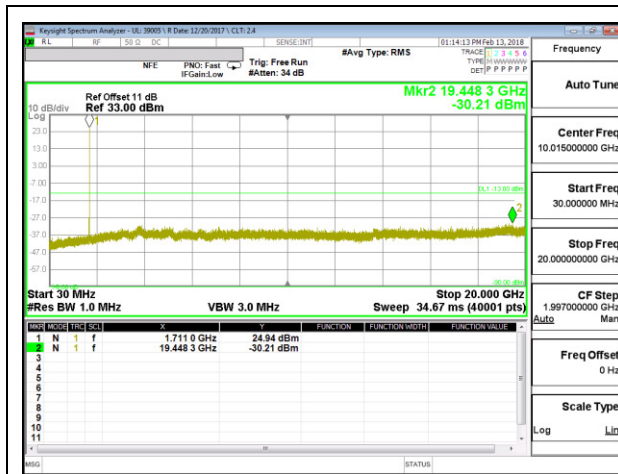
LTE B4 10MHz 16QAM Middle Channel RB1-0



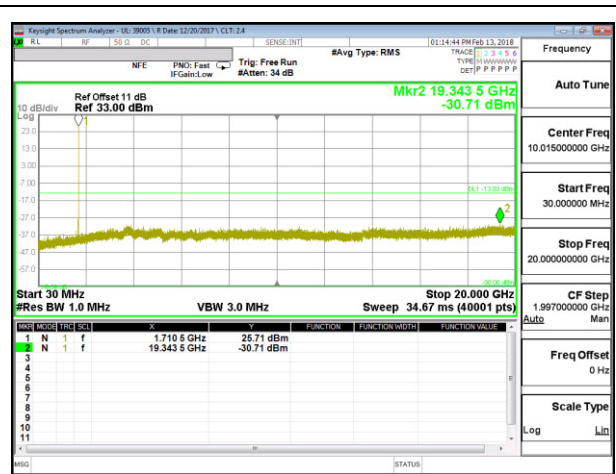
LTE B4 10MHz QPSK High Channel RB1-0



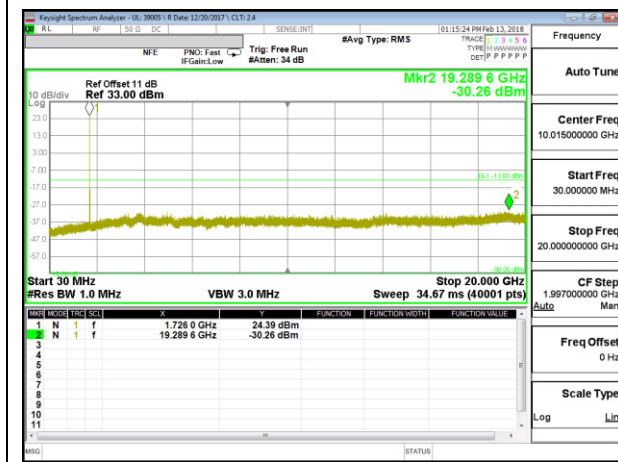
LTE B4 10MHz 16QAM High Channel RB1-0



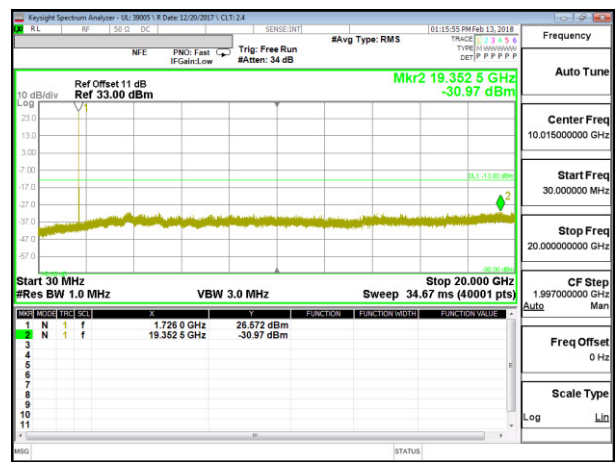
LTE B4 15MHz QPSK Low Channel RB1-0



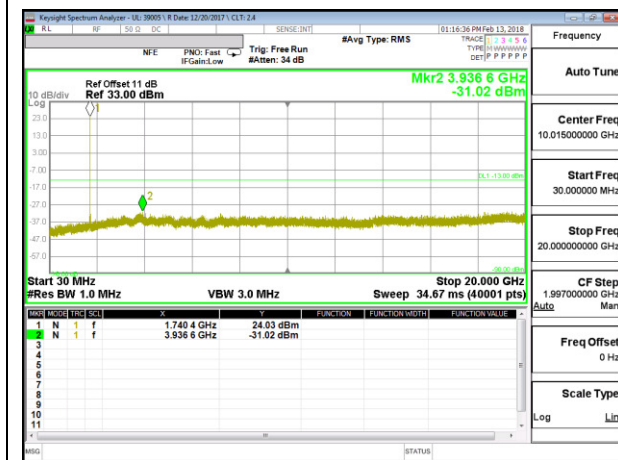
LTE B4 15MHz 16QAM Low Channel RB1-0



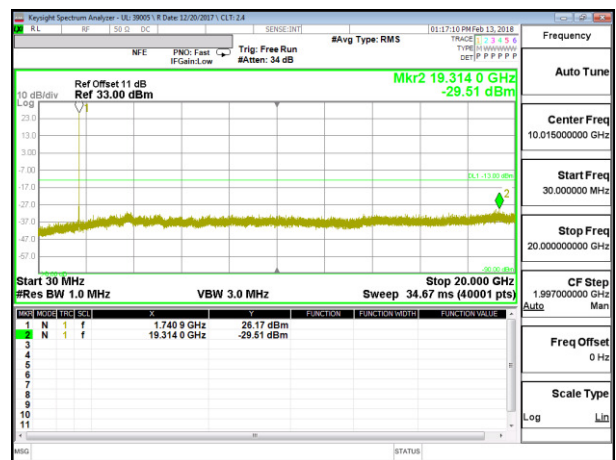
LTE B4 15MHz QPSK Middle Channel RB1-0



LTE B4 15MHz 16QAM Middle Channel RB1-0



LTE B4 15MHz QPSK High Channel RB1-0



LTE B4 15MHz 16QAM High Channel RB1-0