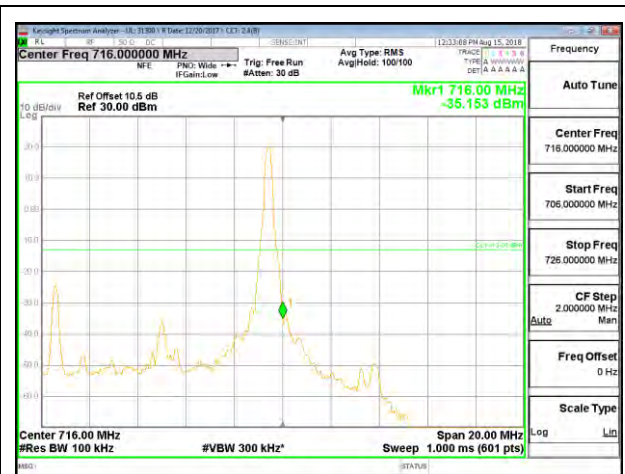
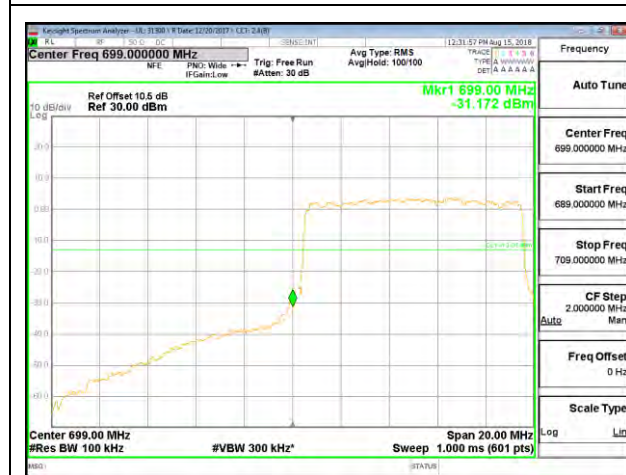


LTE B12 10MHz QPSK Low Channel RB1-0



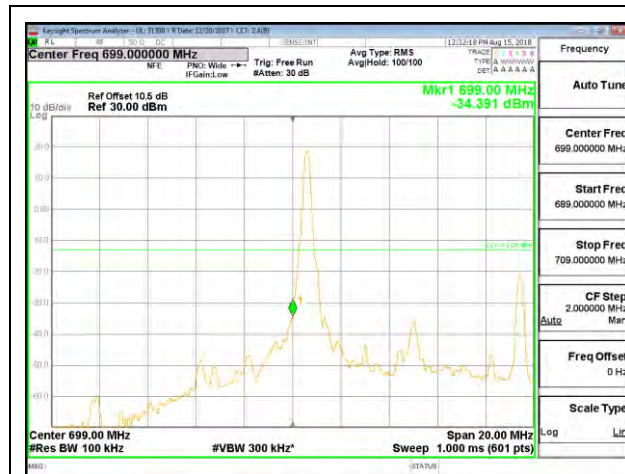
LTE B12 10MHz QPSK High Channel RB1-0



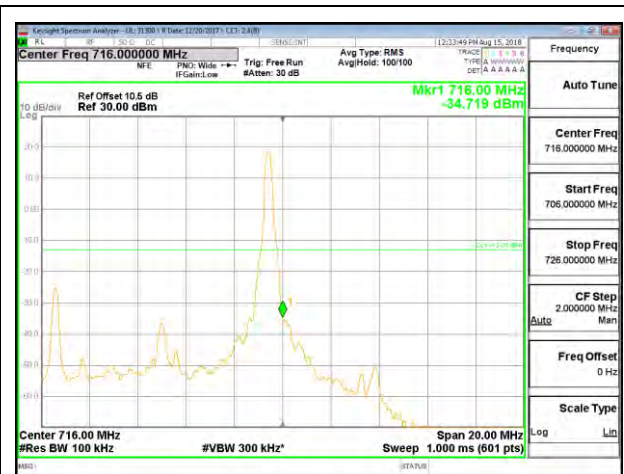
LTE B12 10MHz QPSK Low Channel RB50-0



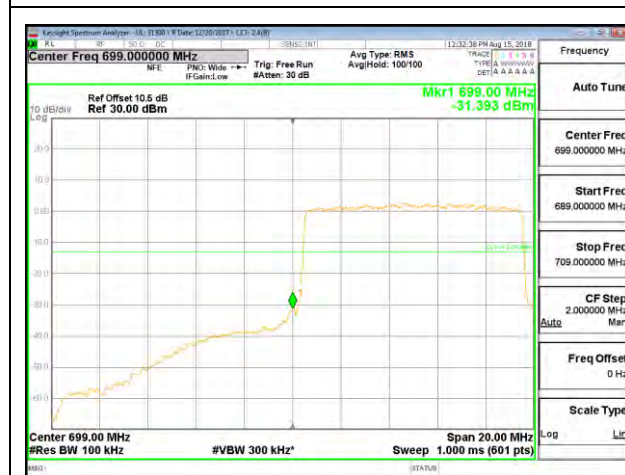
LTE B12 10MHz QPSK High Channel RB50-0



LTE B12 10MHz 16QAM Low Channel RB1-0



LTE B12 10MHz 16QAM High Channel RB1-0

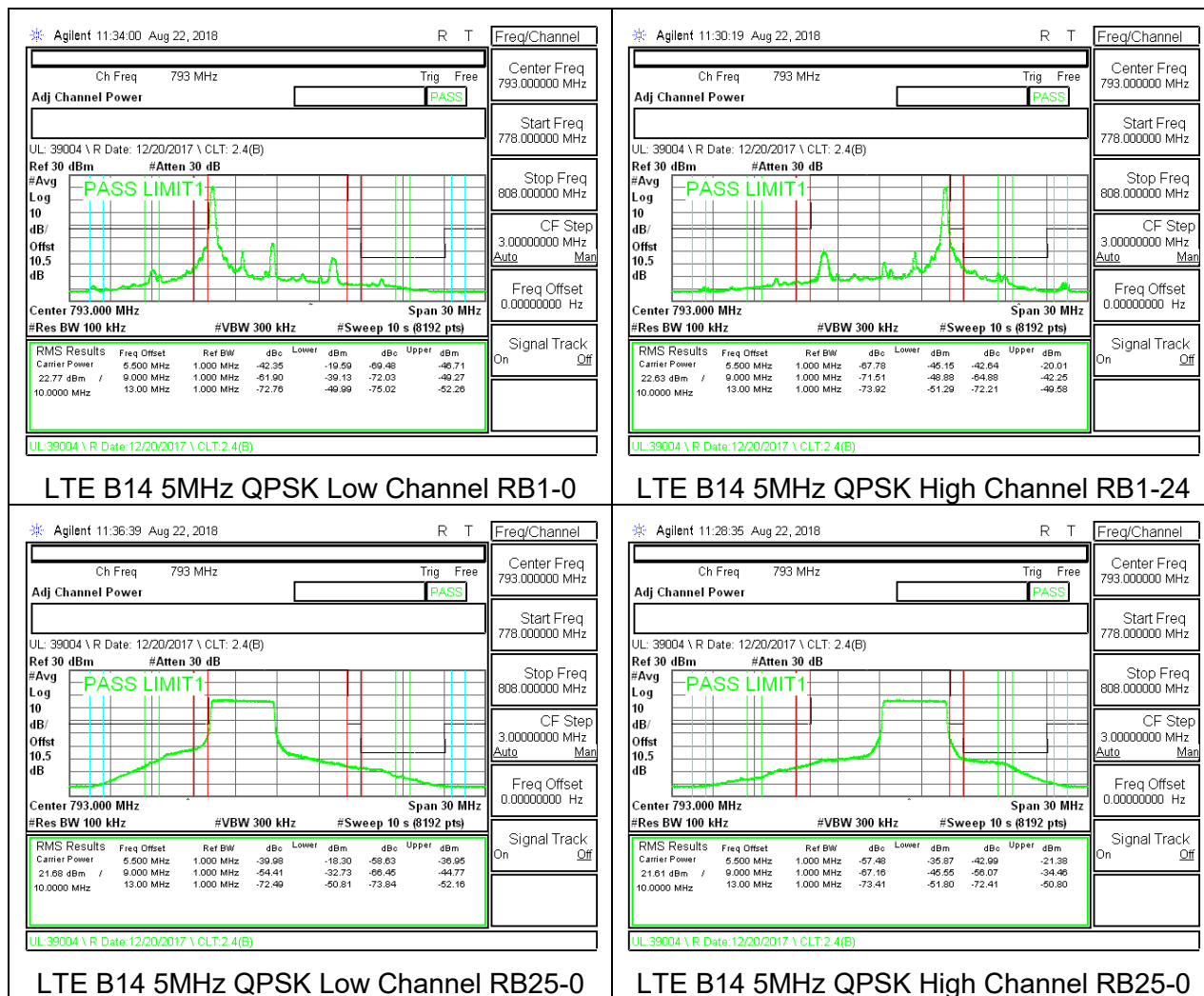


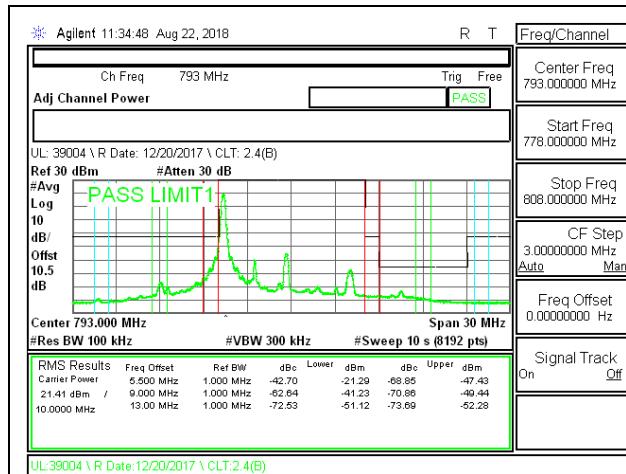
LTE B12 10MHz 16QAM Low Channel RB50-0



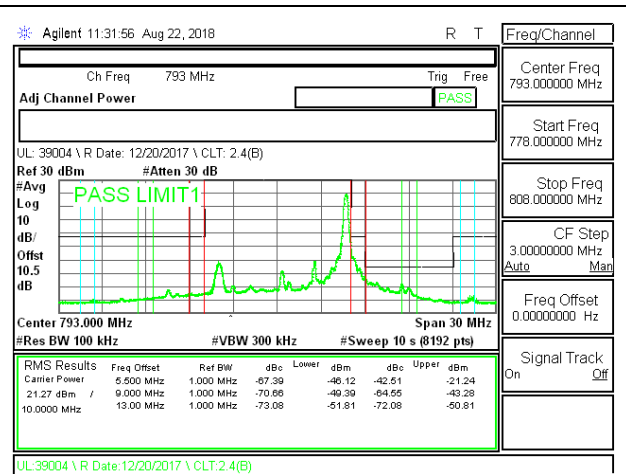
LTE B12 10MHz 16QAM High Channel RB50-0

### 8.2.6. LTE BAND 14 ADJACENT CHANNEL POWER

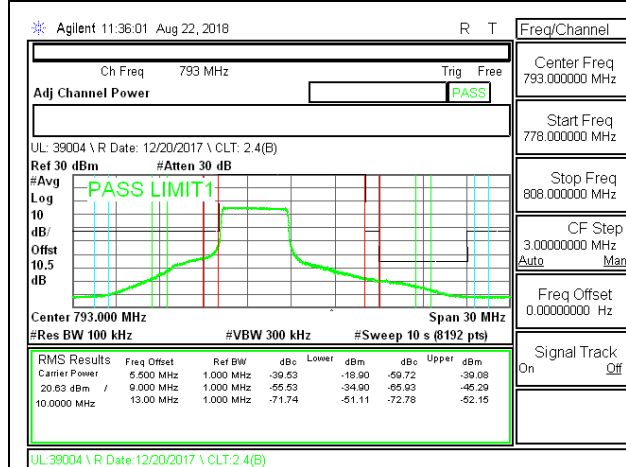




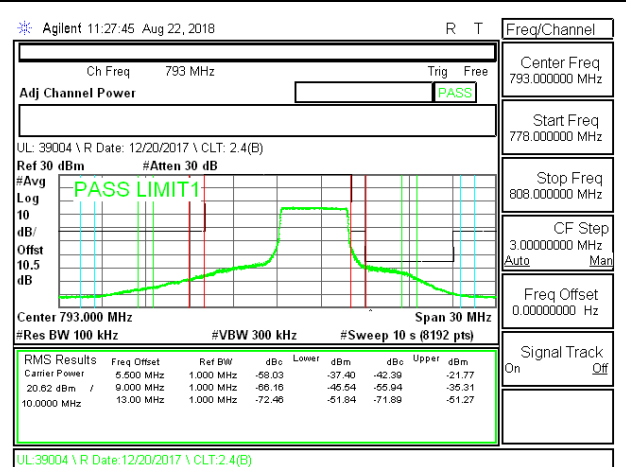
LTE B14 5MHz 16QAM Low Channel RB1-0



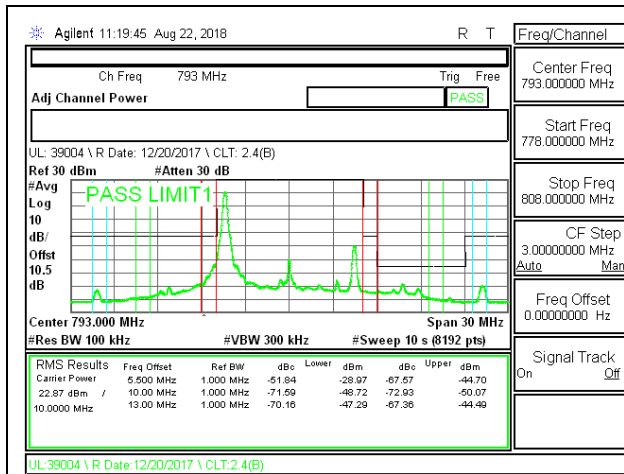
LTE B14 5MHz 16QAM High Channel RB1-24



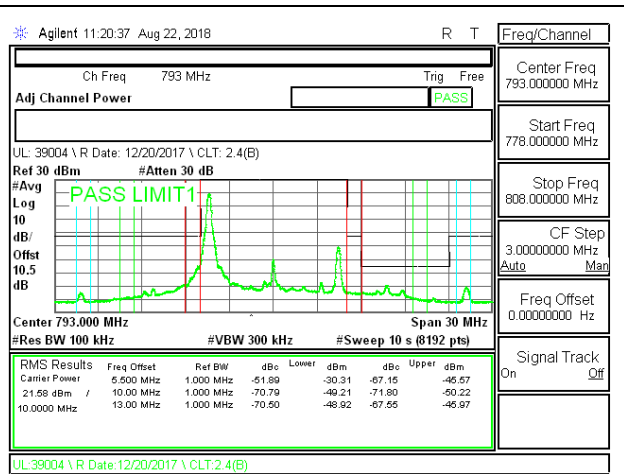
LTE B14 5MHz 16QAM Low Channel RB25-0



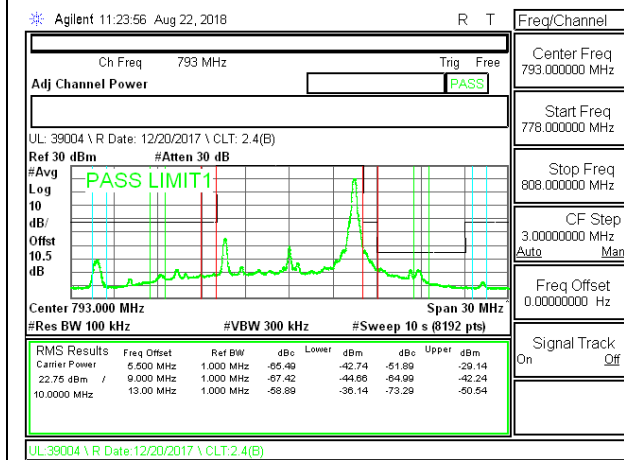
LTE B14 5MHz 16QAM High Channel RB25-0



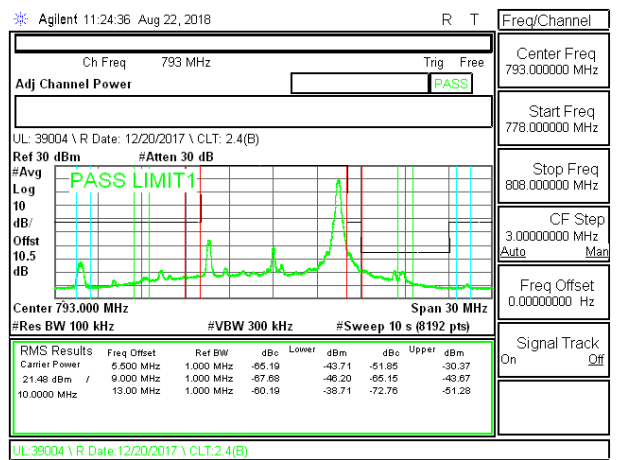
LTE B14 10MHz QPSK Middle Channel RB1-0



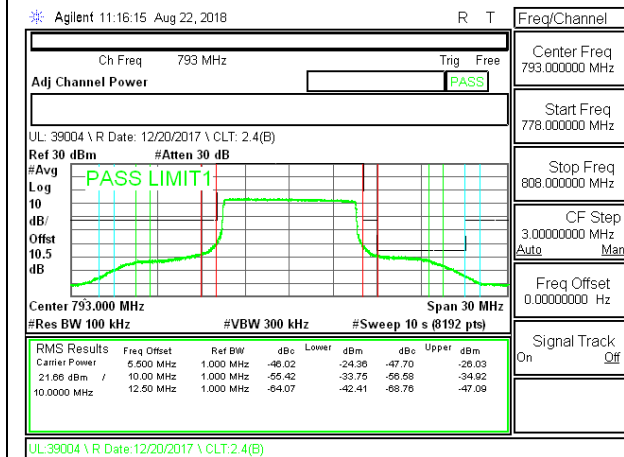
LTE B14 10MHz 16QAM Middle Channel RB1-0



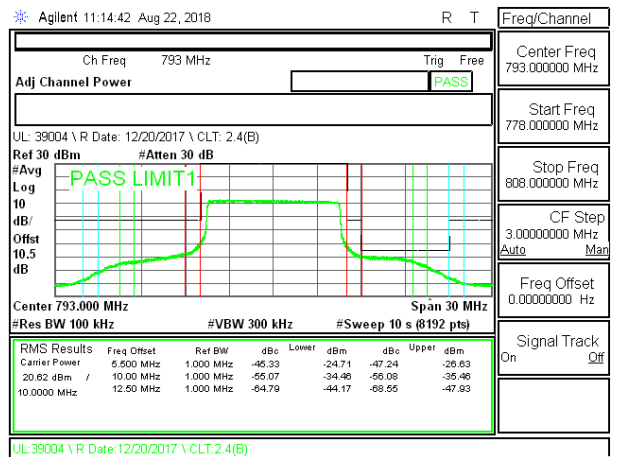
LTE B14 10MHz QPSK Middle Channel RB1-49



LTE B14 10MHz 16QAM Middle Channel RB1-49

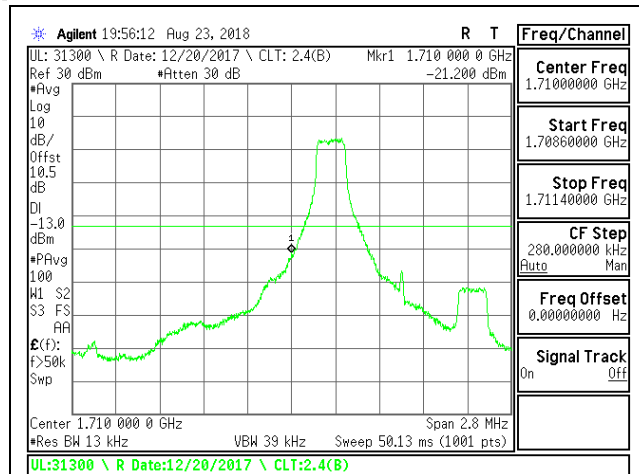


LTE B14 10MHz QPSK Middle Channel RB50-0

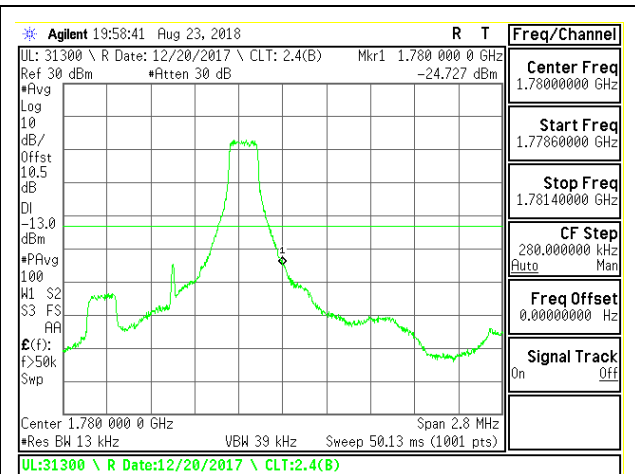


LTE B14 10MHz 16QAM Middle Channel RB50-0

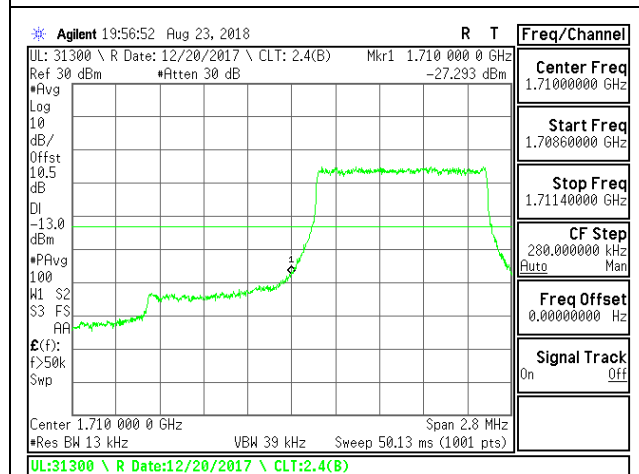
8.2.7. LTE BAND 66 BANDEDGE



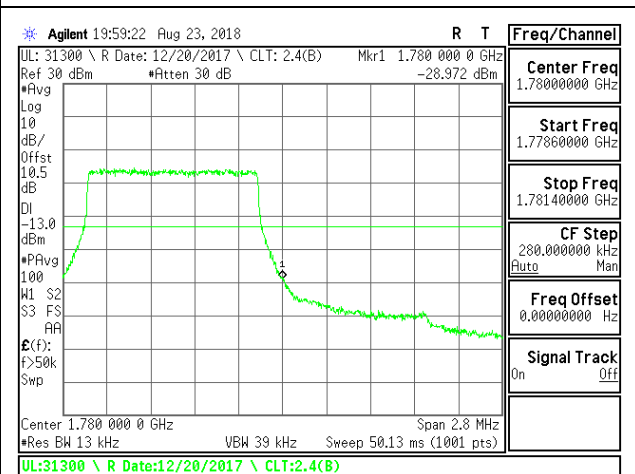
LTE B66 1.4MHz QPSK Low Channel RB1-0



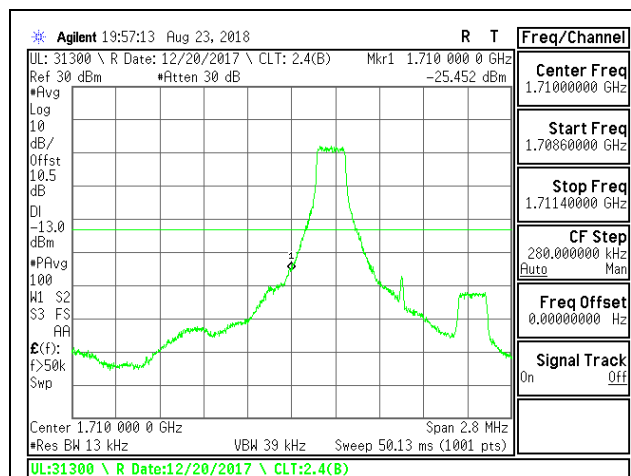
LTE B66 1.4MHz QPSK High Channel RB1-0



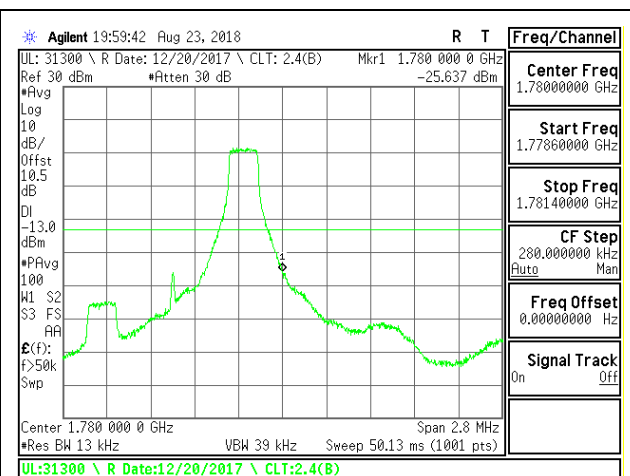
LTE B66 1.4MHz QPSK Low Channel RB6-0



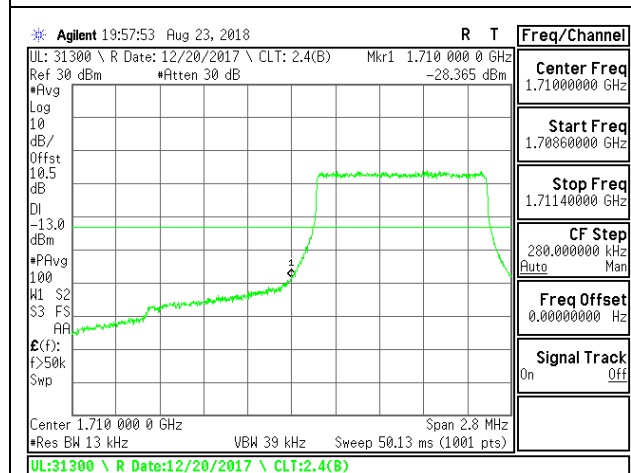
LTE B66 1.4MHz QPSK High Channel RB6-0



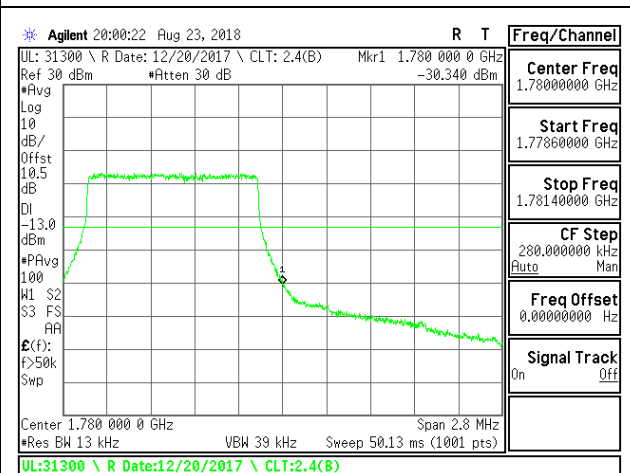
LTE B66 1.4MHz 16QAM Low Channel RB1-0



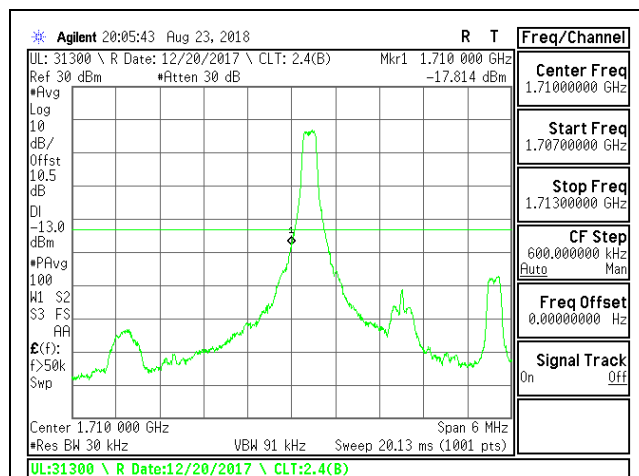
LTE B66 1.4MHz 16QAM High Channel RB1-0



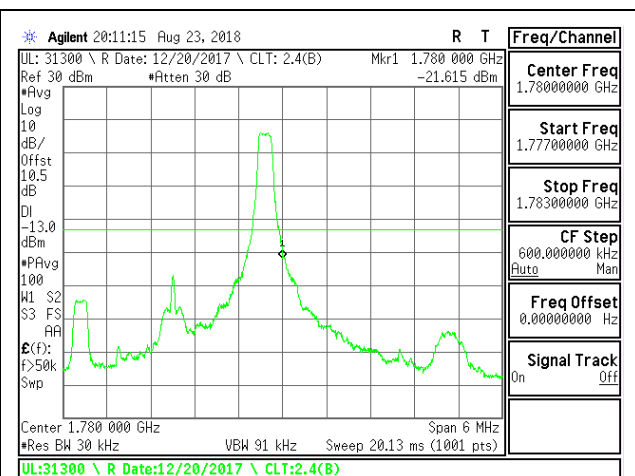
LTE B66 1.4MHz 16QAM Low Channel RB6-0



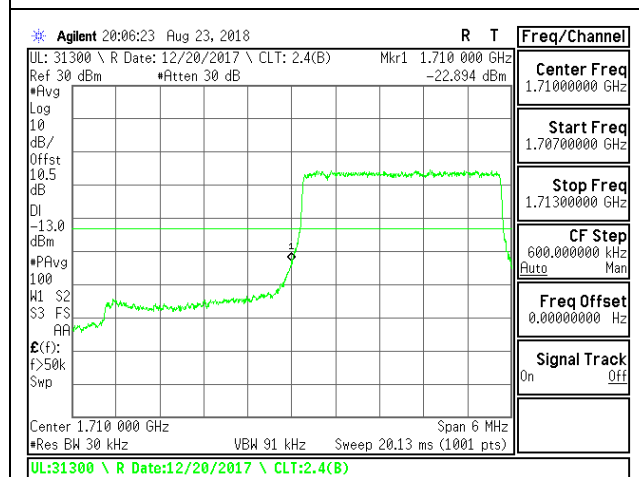
LTE B66 1.4MHz 16QAM High Channel RB6-0



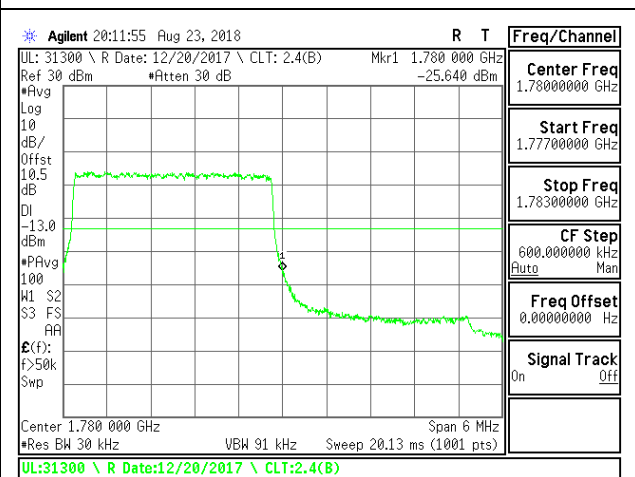
LTE B66 3MHz QPSK Low Channel RB1-0



LTE B66 3MHz QPSK High Channel RB1-0

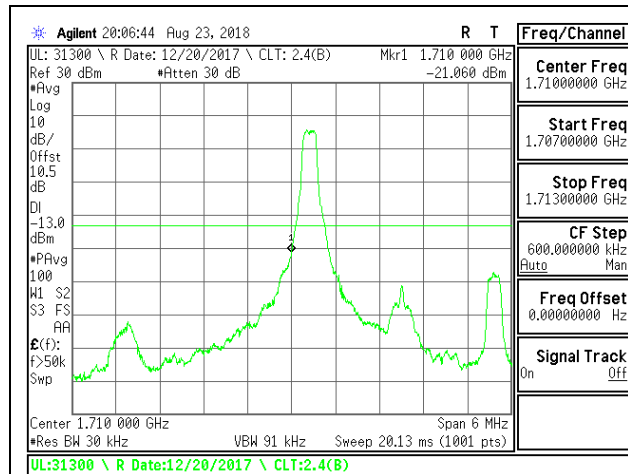


LTE B66 3MHz QPSK Low Channel RB15-0

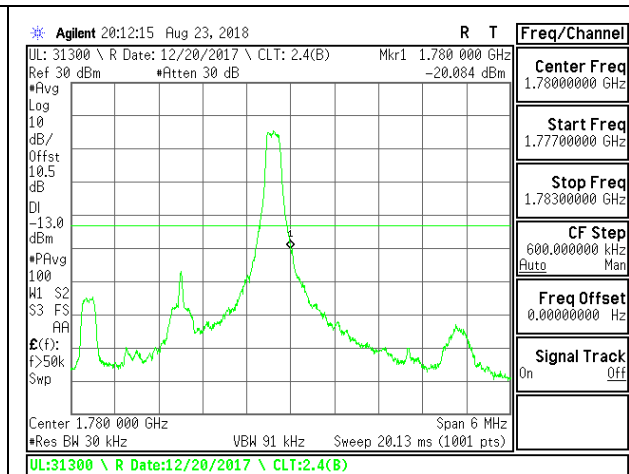


LTE B66 3MHz QPSK High Channel RB15-0

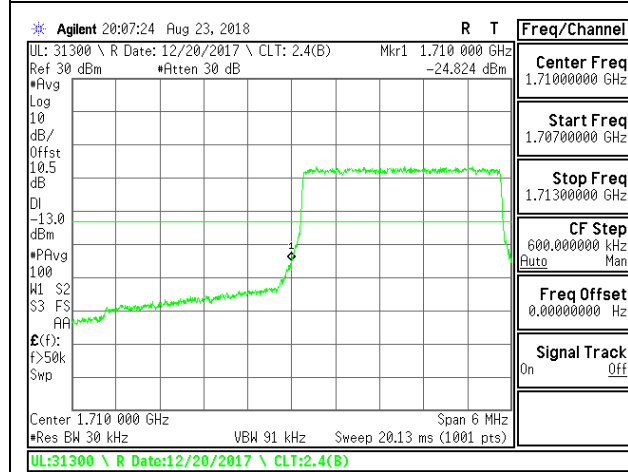




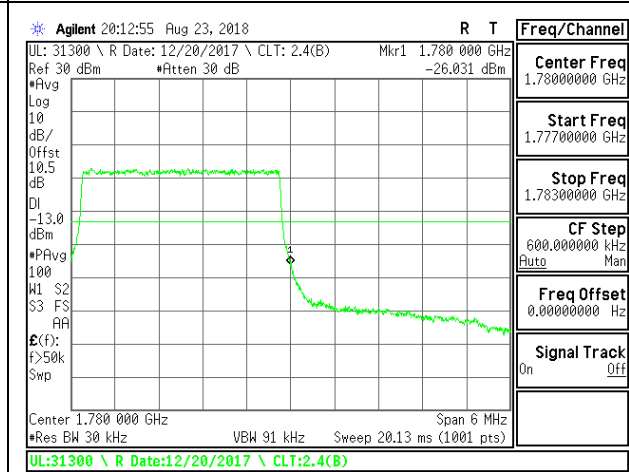
LTE B66 3MHz 16QAM Low Channel RB1-0



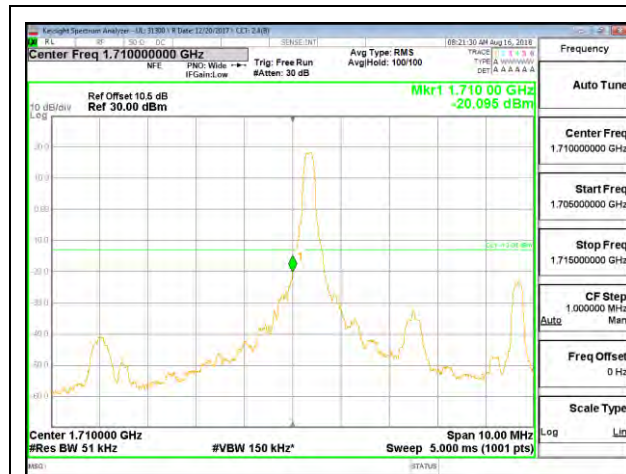
LTE B66 3MHz 16QAM High Channel RB1-0



LTE B66 3MHz 16QAM Low Channel RB15-0



LTE B66 3MHz 16QAM High Channel RB15-0



LTE B66 5MHz QPSK Low Channel RB1-0



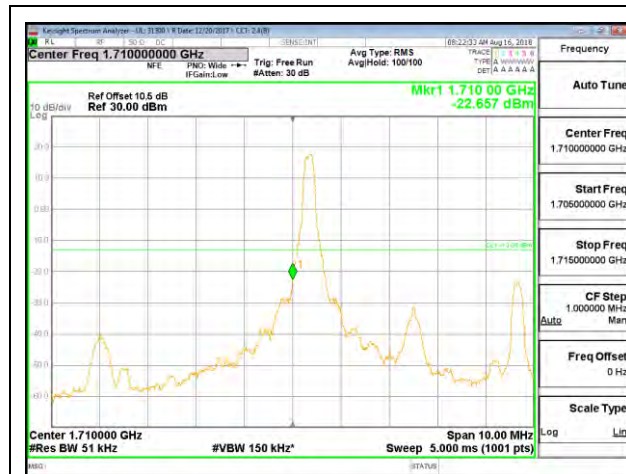
LTE B66 5MHz QPSK High Channel RB1-0



LTE B66 5MHz QPSK Low Channel RB25-0



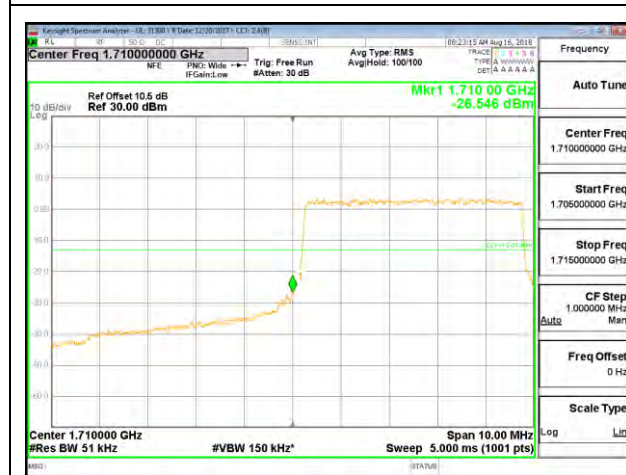
LTE B66 5MHz QPSK High Channel RB25-0



LTE B66 5MHz 16QAM Low Channel RB1-0



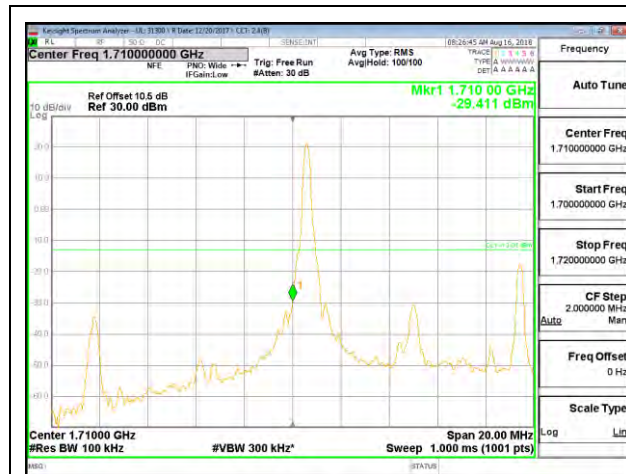
LTE B66 5MHz 16QAM High Channel RB1-0



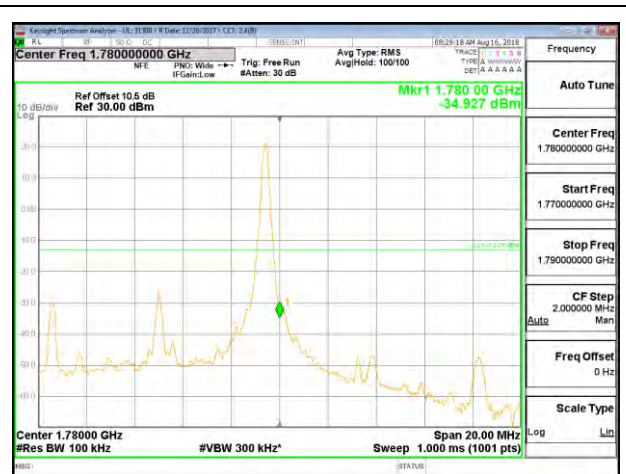
LTE B66 5MHz 16QAM Low Channel RB25-0



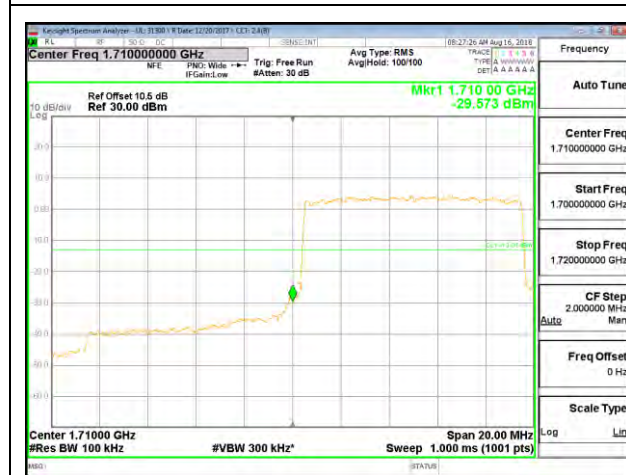
LTE B66 5MHz 16QAM High Channel RB25-0



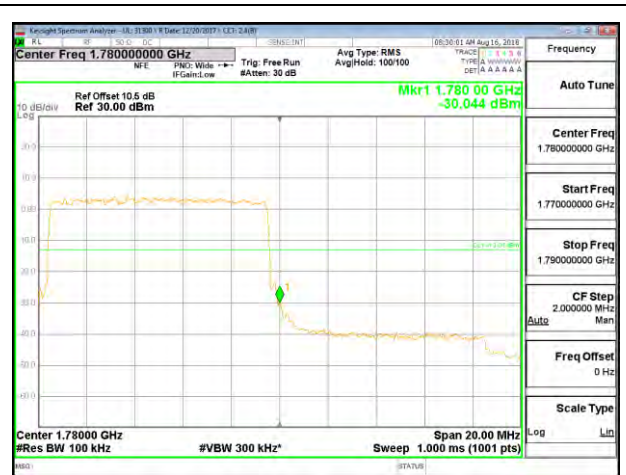
LTE B66 10MHz QPSK Low Channel RB1-0



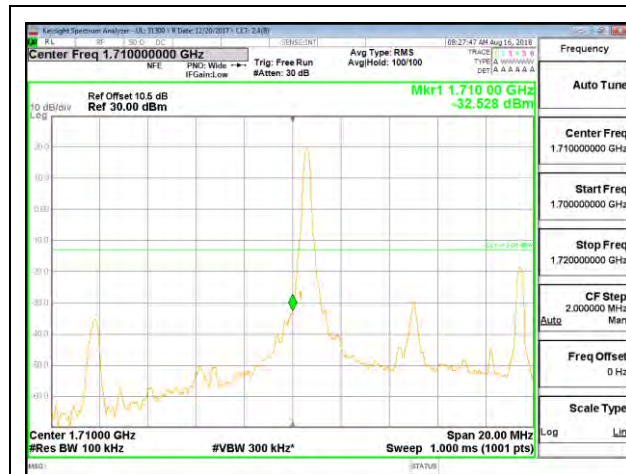
LTE B66 10MHz QPSK High Channel RB1-0



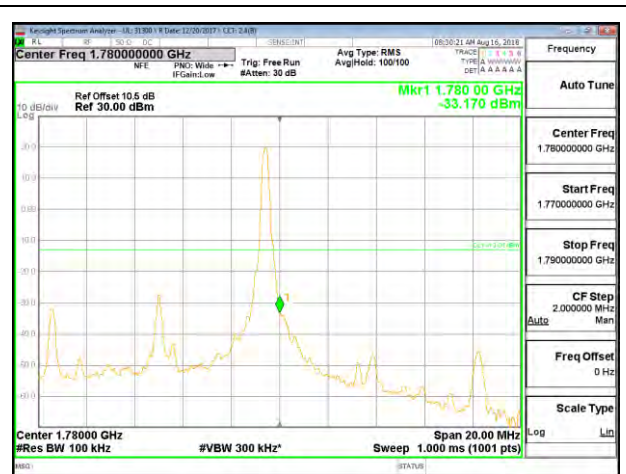
LTE B66 10MHz QPSK Low Channel RB50-0



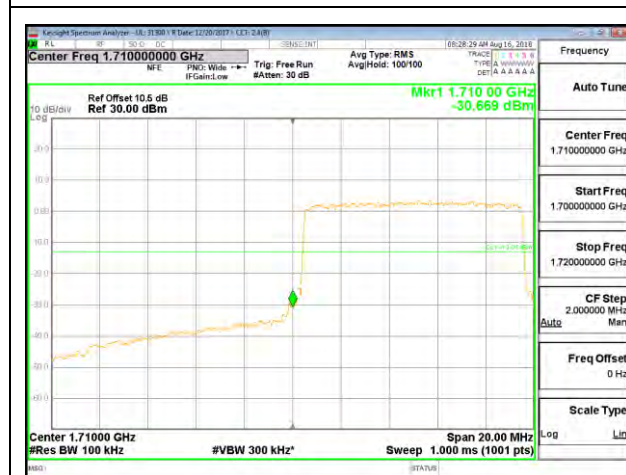
LTE B66 10MHz QPSK High Channel RB50-0



LTE B66 10MHz 16QAM Low Channel RB1-0



LTE B66 10MHz 16QAM High Channel RB1-0



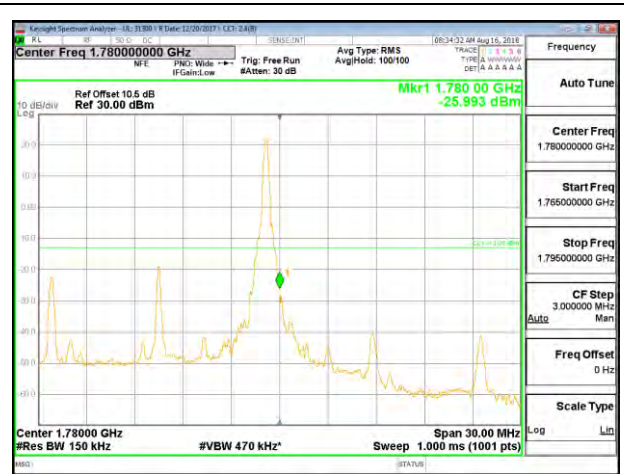
LTE B66 10MHz 16QAM Low Channel RB50-0



LTE B66 10MHz 16QAM High Channel RB50-0



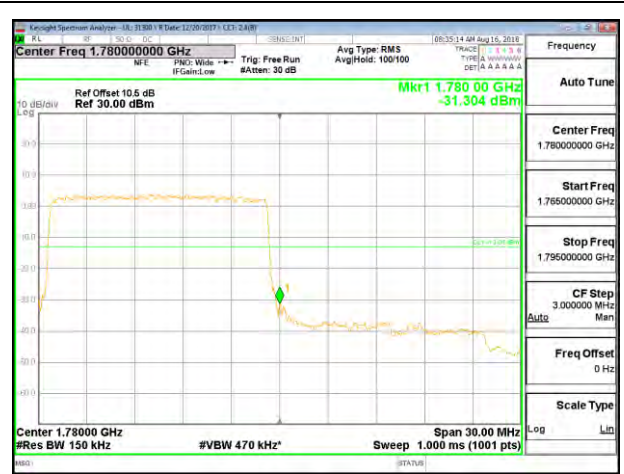
LTE B66 15MHz QPSK Low Channel RB1-0



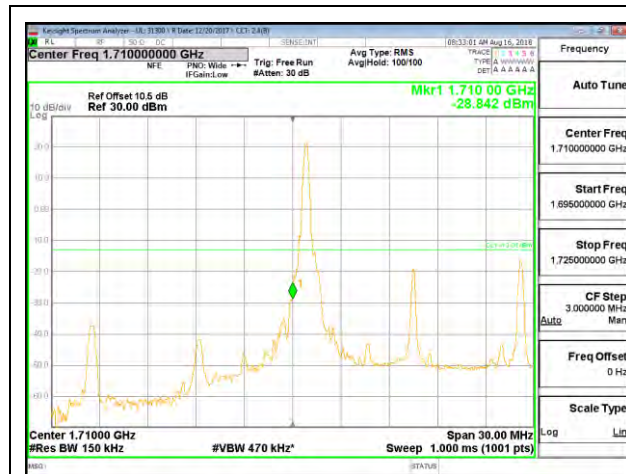
LTE B66 15MHz QPSK High Channel RB1-0



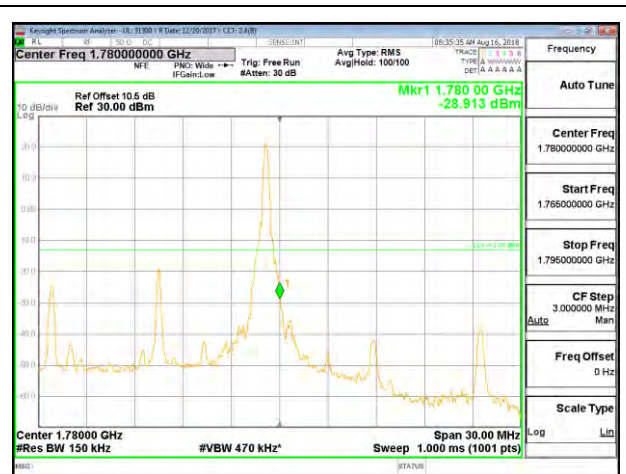
LTE B66 15MHz QPSK Low Channel RB75-0



LTE B66 15MHz QPSK High Channel RB75-0



LTE B66 15MHz 16QAM Low Channel RB1-0



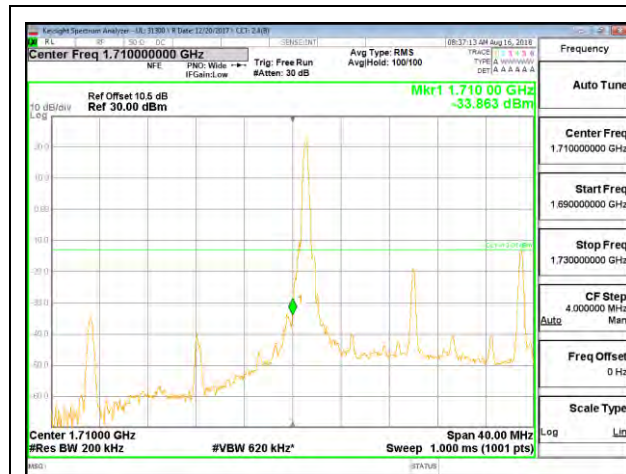
LTE B66 15MHz 16QAM High Channel RB1-0



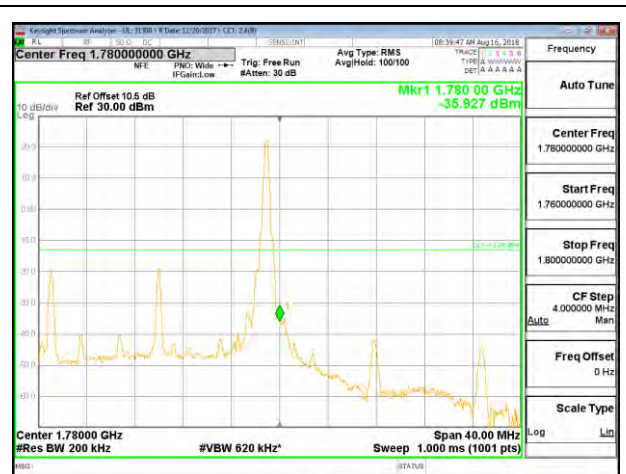
LTE B66 15MHz 16QAM Low Channel RB75-0



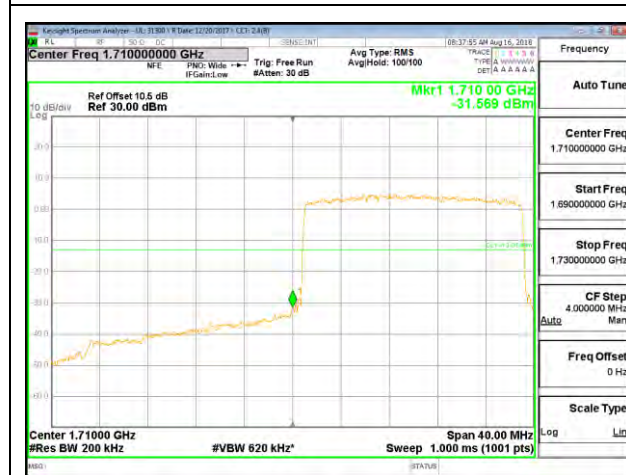
LTE B66 15MHz 16QAM High Channel RB75-0



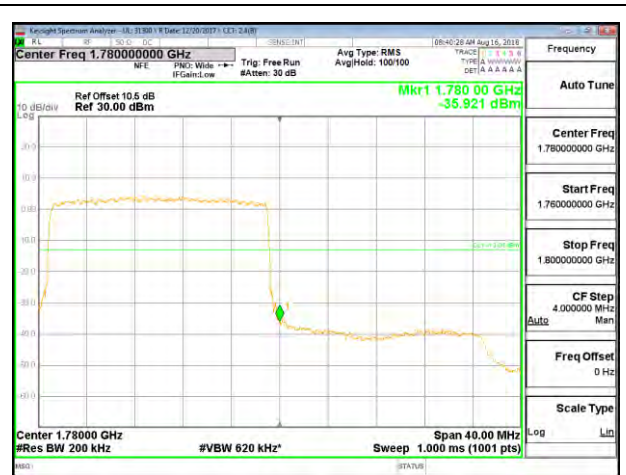
LTE B66 20MHz QPSK Low Channel RB1-0



LTE B66 20MHz QPSK High Channel RB1-0

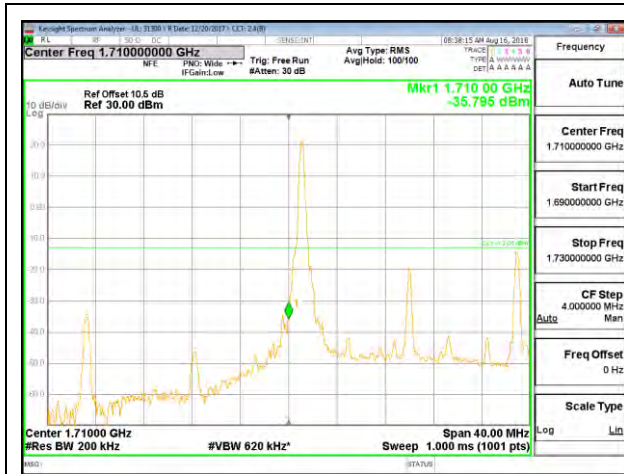


LTE B66 20MHz QPSK Low Channel RB100-0



LTE B66 20MHz QPSK High Channel RB100-0

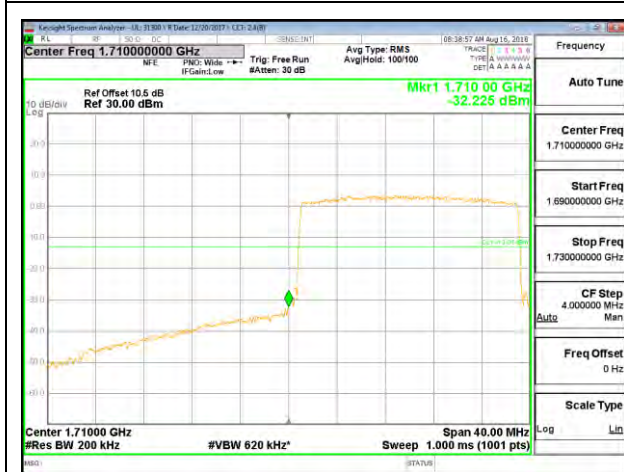




LTE B66 20MHz 16QAM Low Channel RB1-0



LTE B66 20MHz 16QAM High Channel RB1-0



LTE B66 20MHz 16QAM Low Channel  
 RB100-0



LTE B66 20MHz 16QAM High Channel  
 RB100-0

### **8.3. OUT OF BAND EMISSIONS**

#### **RULE PART(S)**

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53 and §90.543

#### **LIMITS**

FCC: §22.917, §24.238, §27.53 (c), (g), (h), §90.543 (Band 14)

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.

#### **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)

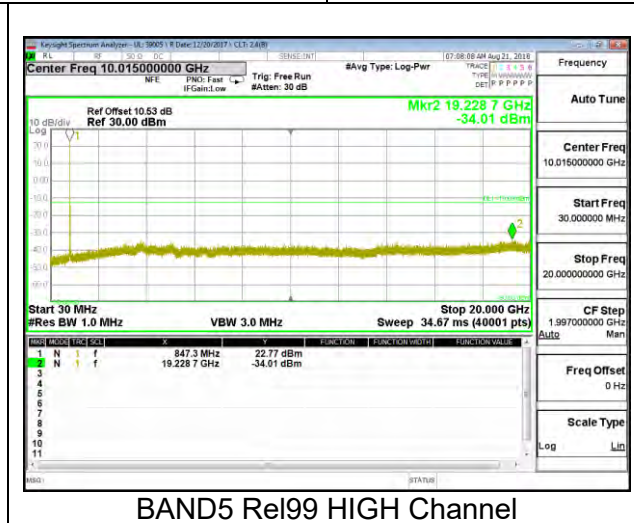
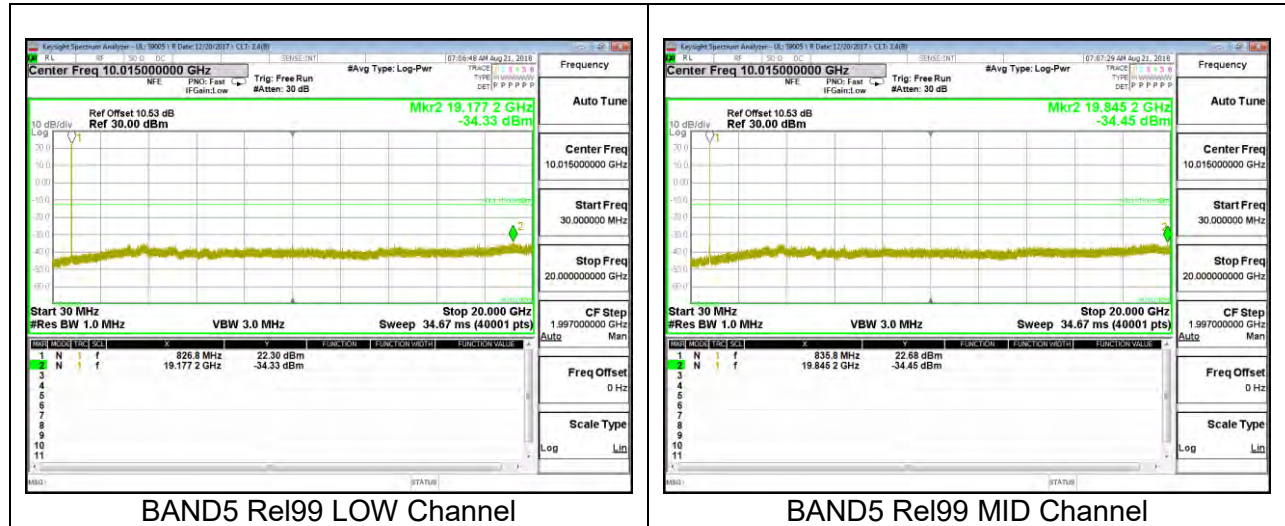
#### **MODES TESTED**

- WCDM Band 5
- WCDM Band 2
- LTE Band 2
- LTE Band 5
- LTE Band 12
- LTE Band 14
- LTE Band 66

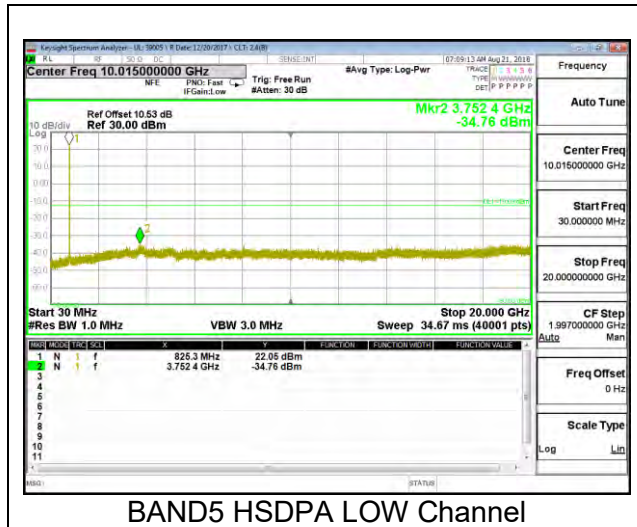
#### **RESULTS**

8.3.1. WCDMA BAND5

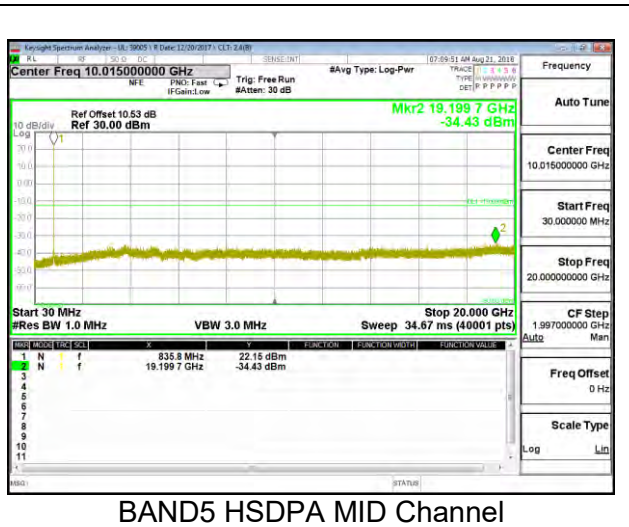
Rel99



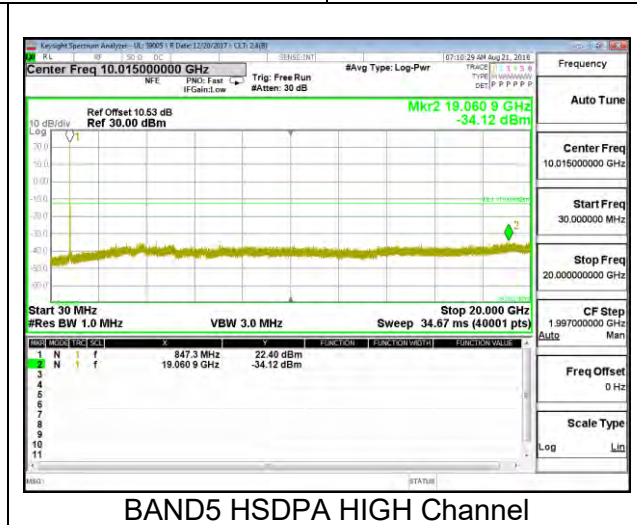
**HSDPA**



**BAND5 HSDPA LOW Channel**



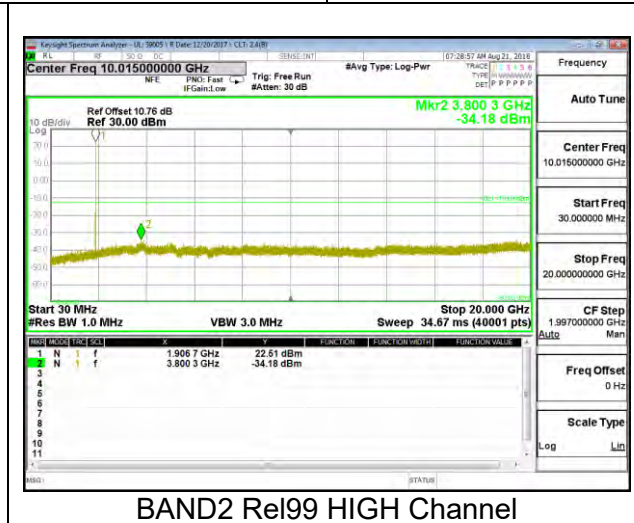
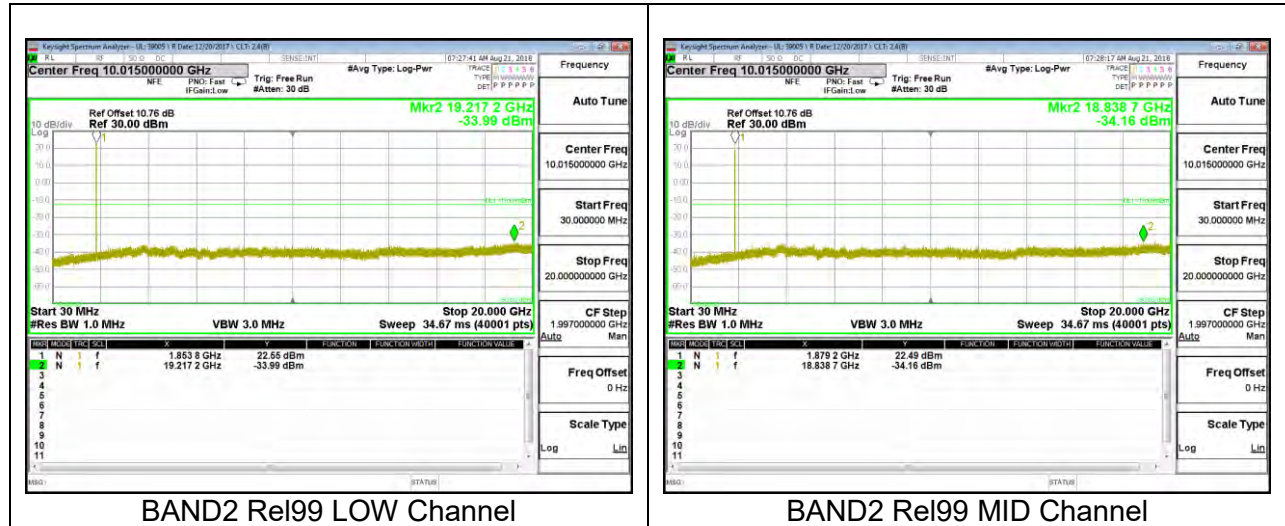
**BAND5 HSDPA MID Channel**



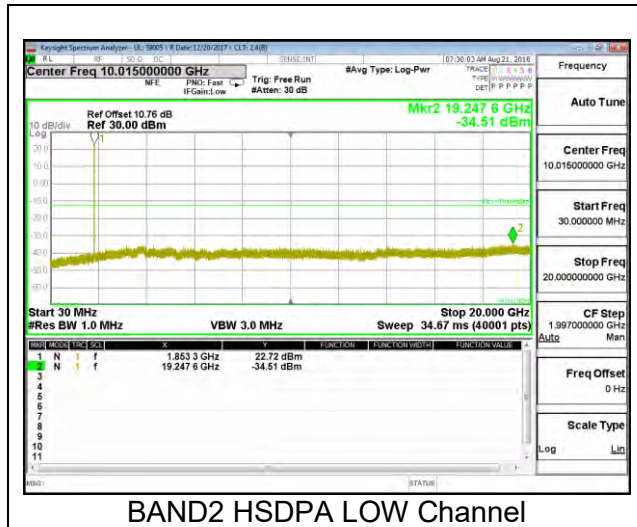
**BAND5 HSDPA HIGH Channel**

8.3.2. WCDMA BAND2

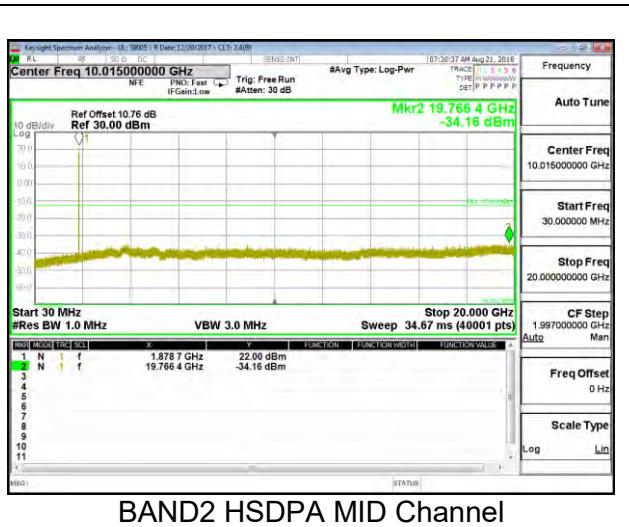
Rel99



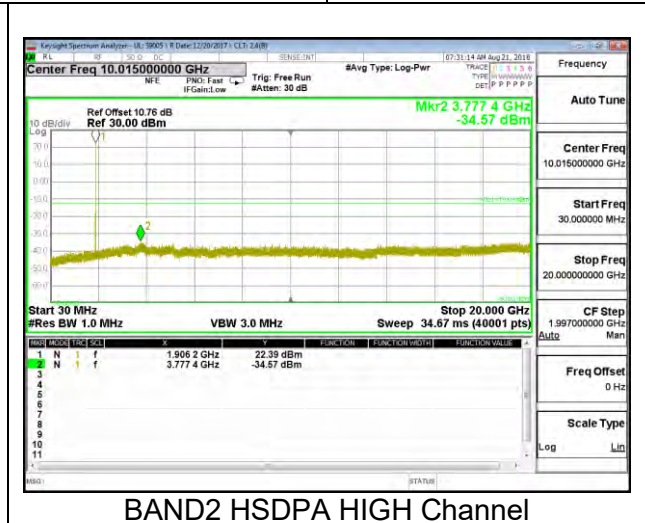
**HSDPA**



**BAND2 HSDPA LOW Channel**

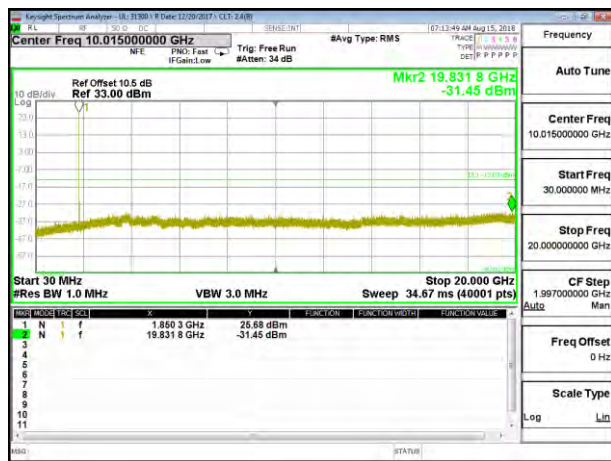


**BAND2 HSDPA MID Channel**

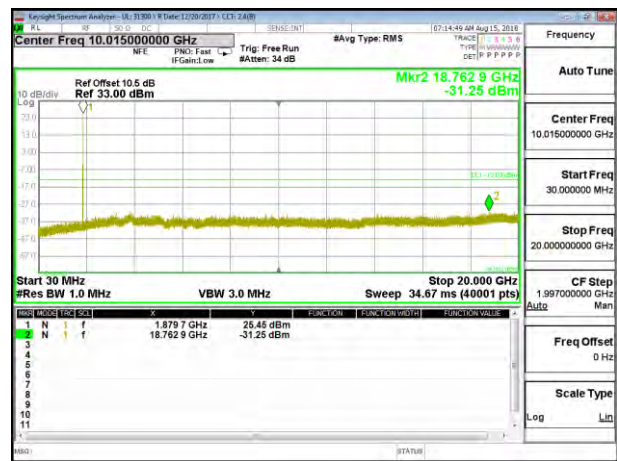


**BAND2 HSDPA HIGH Channel**

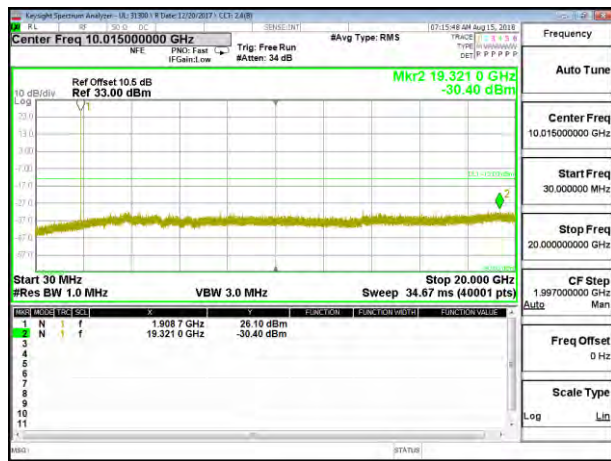
8.3.3. LTE BAND 2



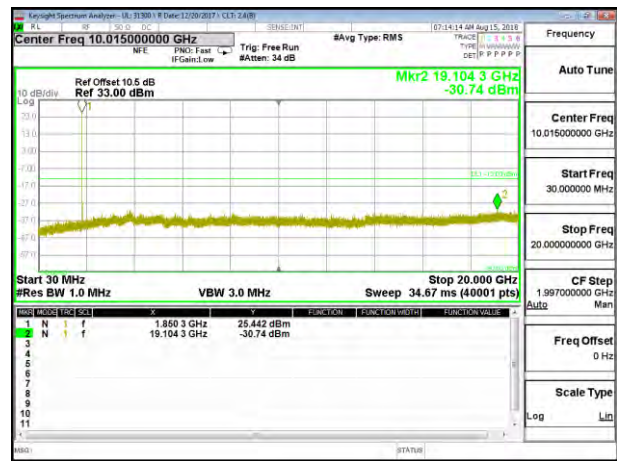
LTE B2 1.4MHz QPSK Low Channel RB1-0



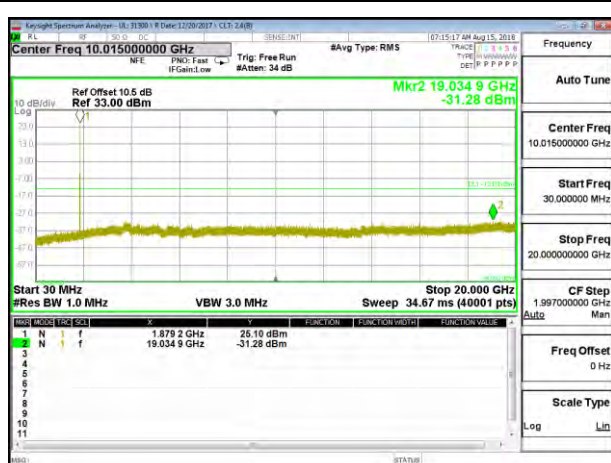
LTE B2 1.4MHz QPSK Mid Channel RB1-0



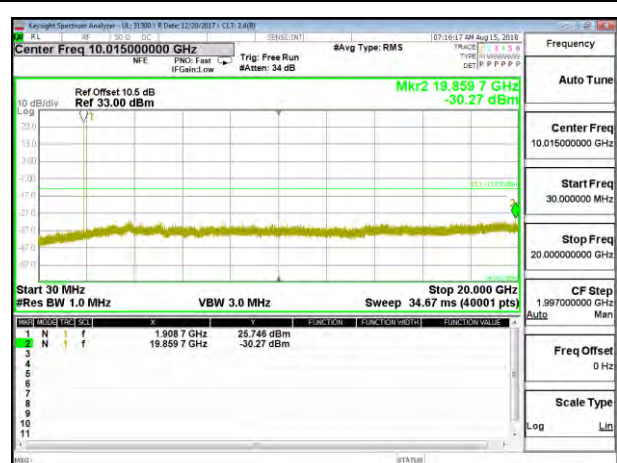
LTE B2 1.4MHz QPSK High Channel RB1-0



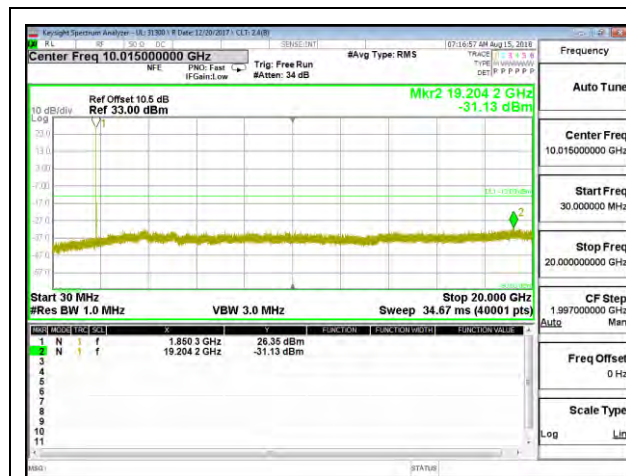
LTE B2 1.4MHz 16QAM Low Channel RB1-0



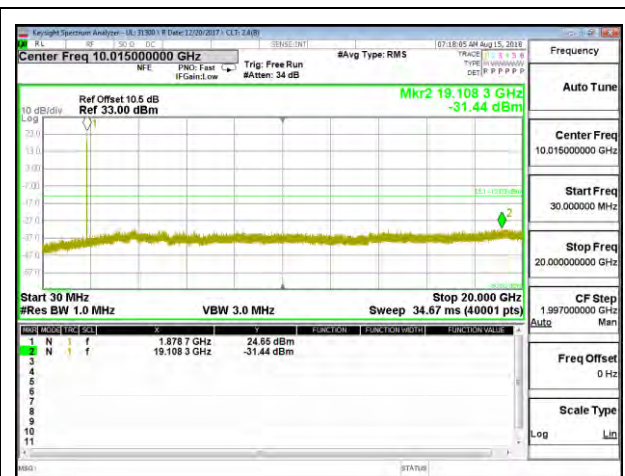
LTE B2 1.4MHz 16QAM Mid Channel RB1-0



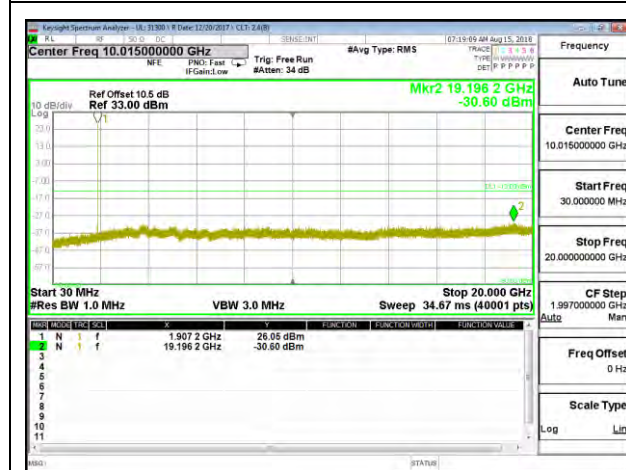
LTE B2 1.4MHz 16QAM High Channel RB1-0



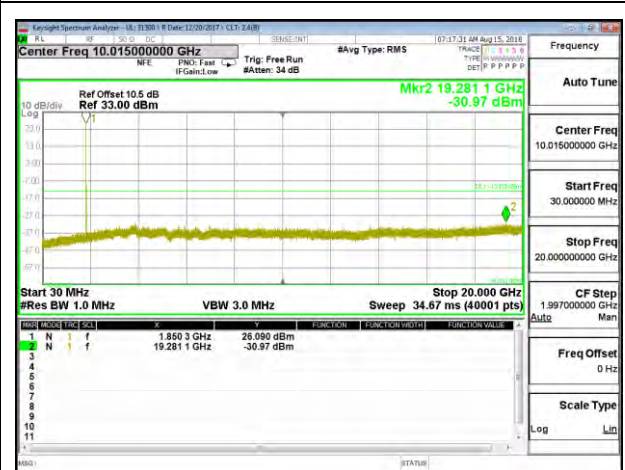
LTE B2 3MHz QPSK Low Channel RB1-0



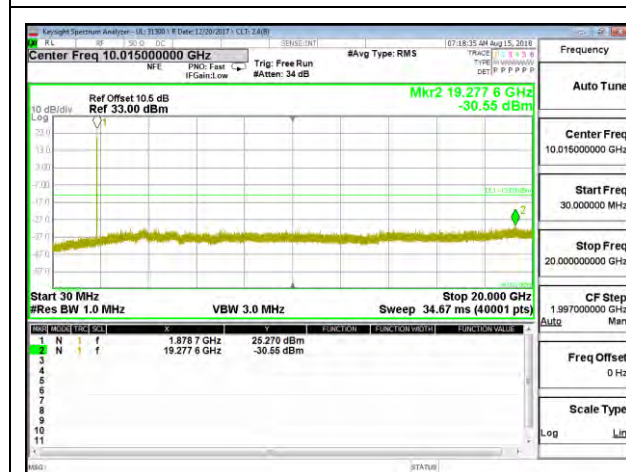
LTE B2 3MHz QPSK Mid Channel RB1-0



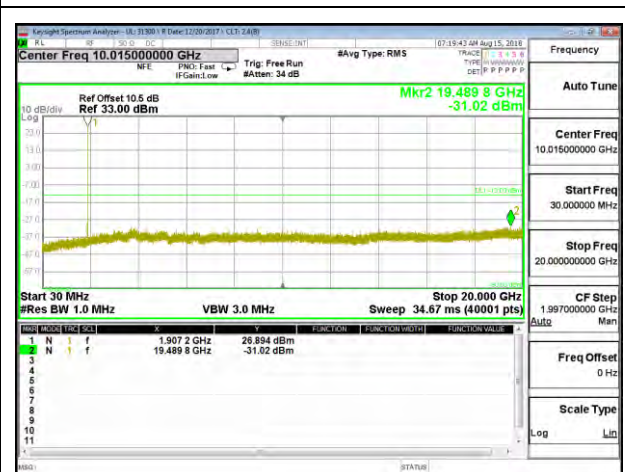
LTE B2 3MHz QPSK High Channel RB1-0



LTE B2 3MHz 16QAM Low Channel RB1-0

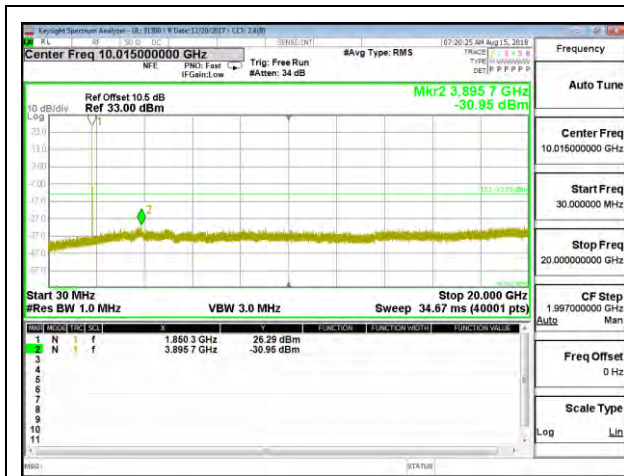


LTE B2 3MHz 16QAM Mid Channel RB1-0

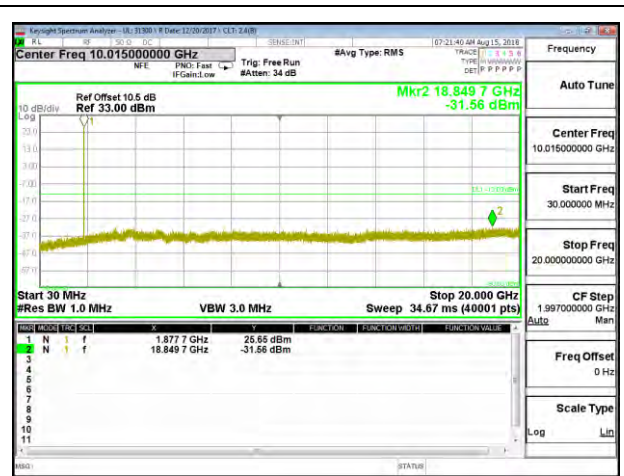


LTE B2 3MHz 16QAM High Channel RB1-0

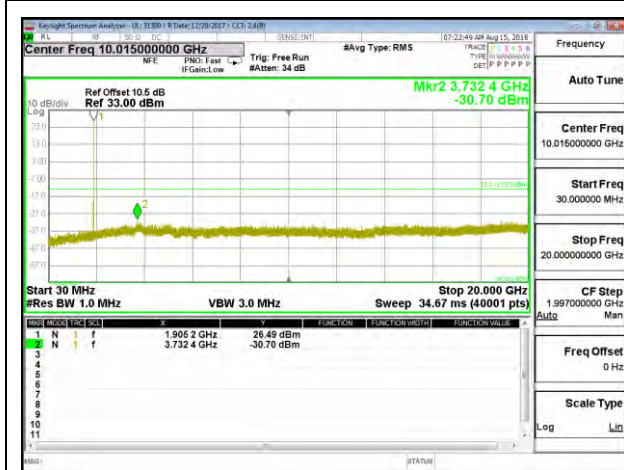




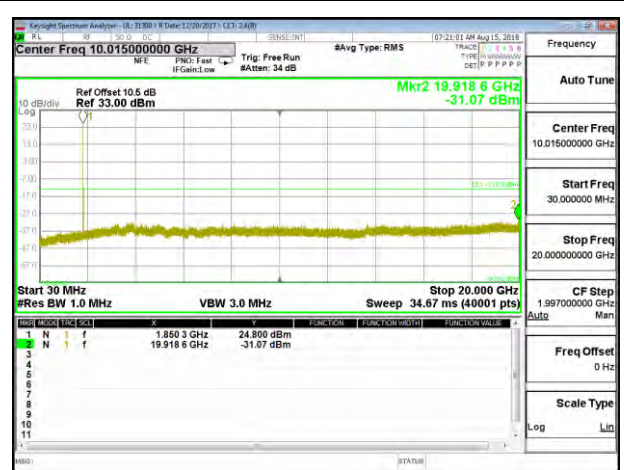
LTE B2 5MHz QPSK Low Channel RB1-0



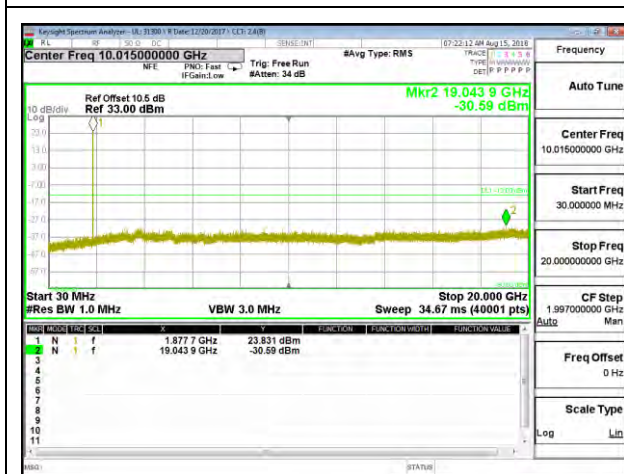
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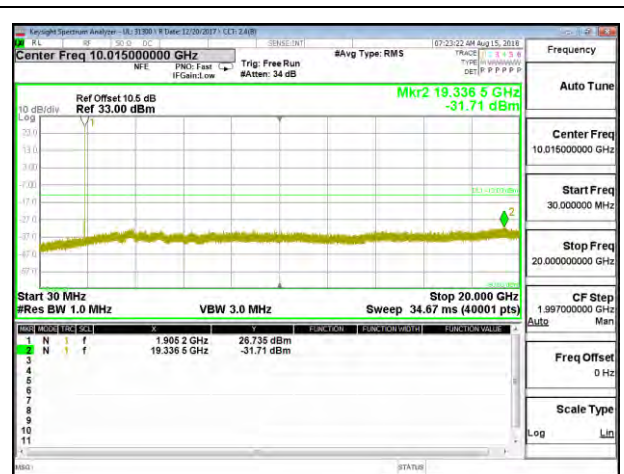
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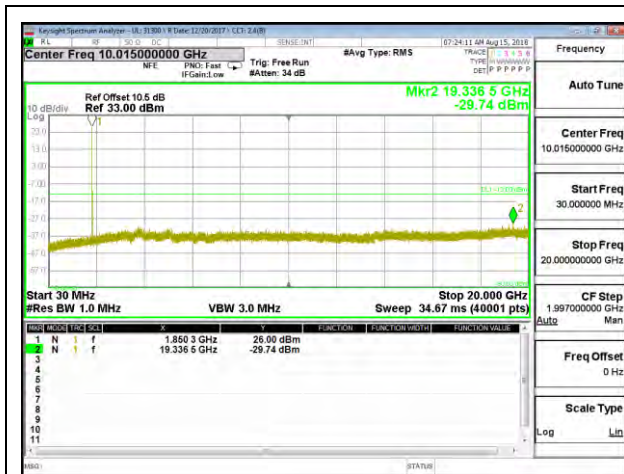
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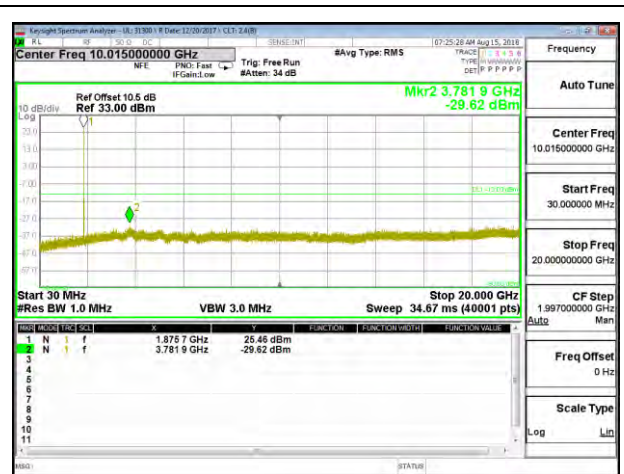
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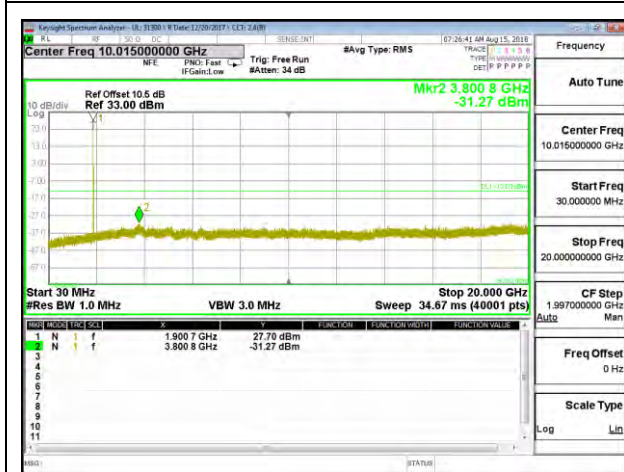
LTE B2 5MHz 16QAM High Channel RB1-0



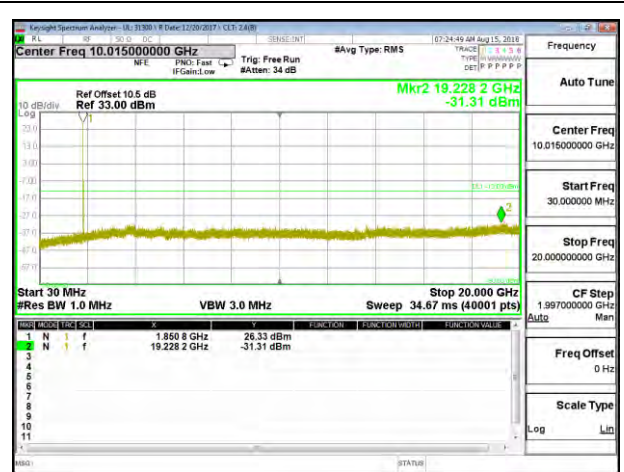
LTE B2 10MHz QPSK Low Channel RB1-0



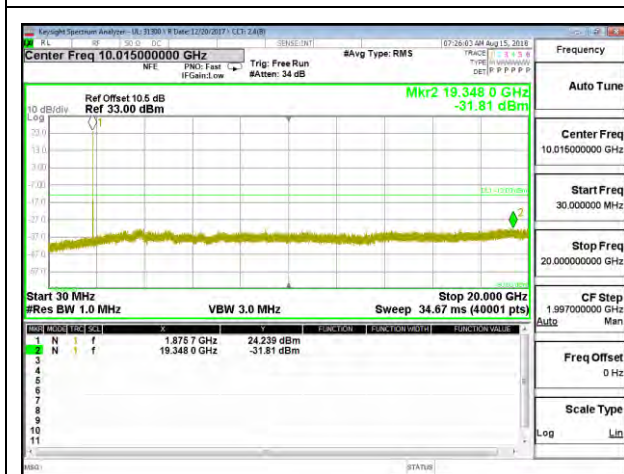
LTE B2 10MHz QPSK Mid Channel RB1-0



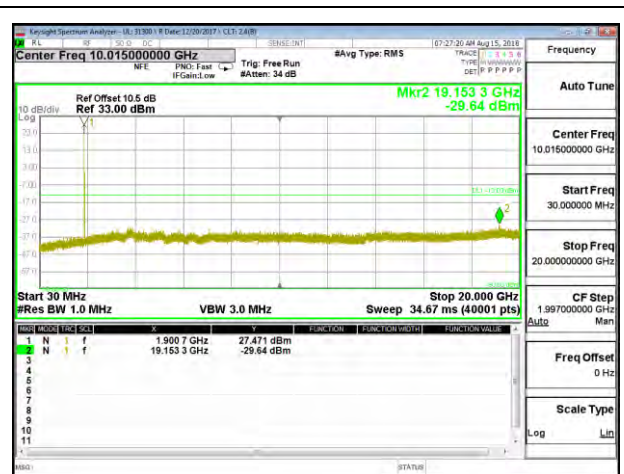
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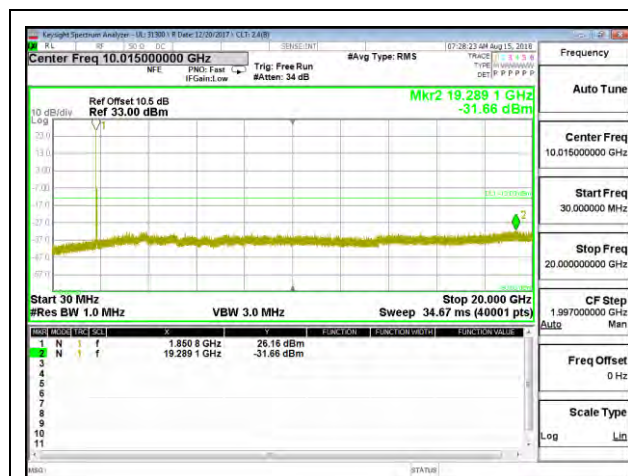
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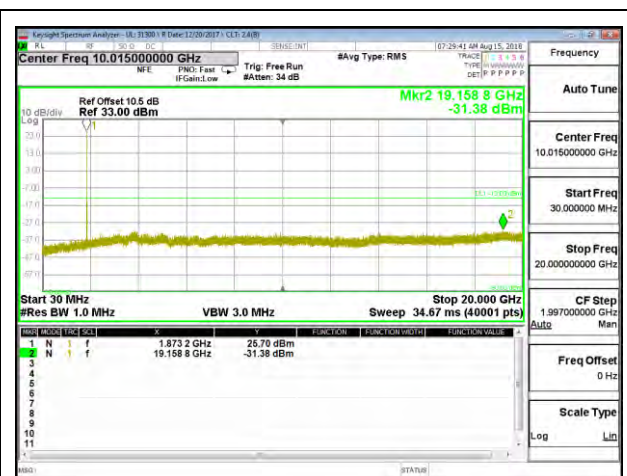
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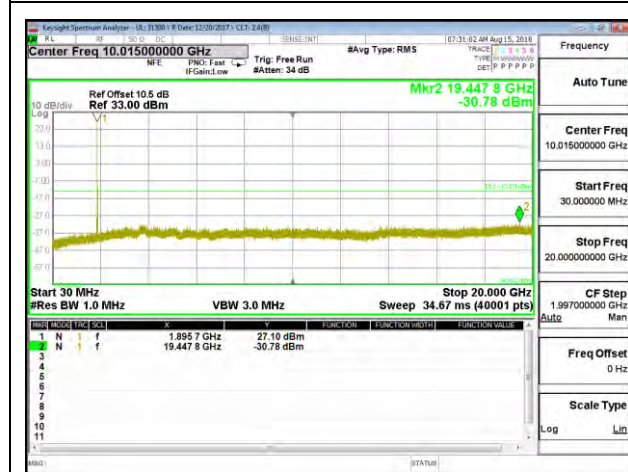
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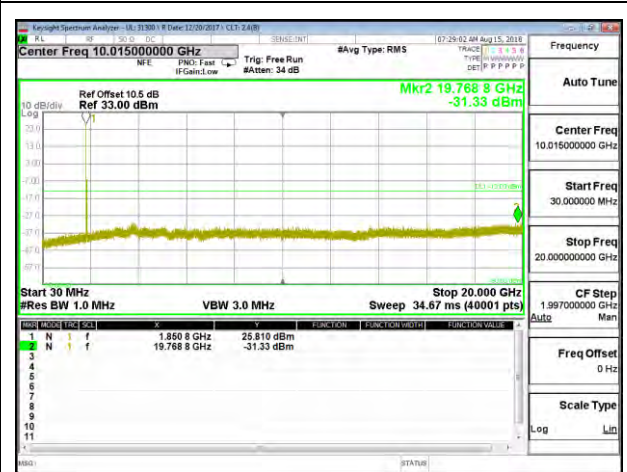
LTE B2 15MHz QPSK Low Channel RB1-0



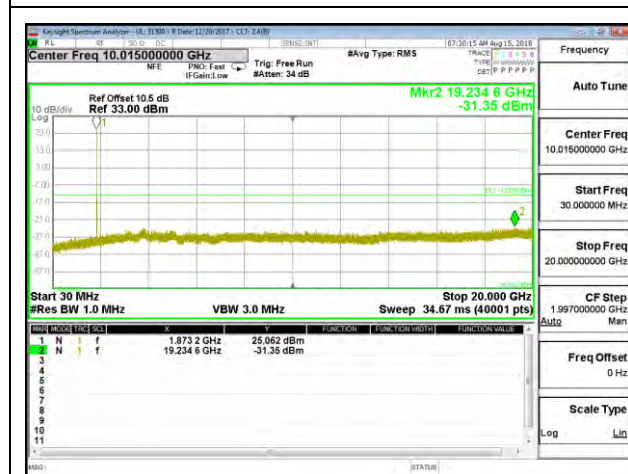
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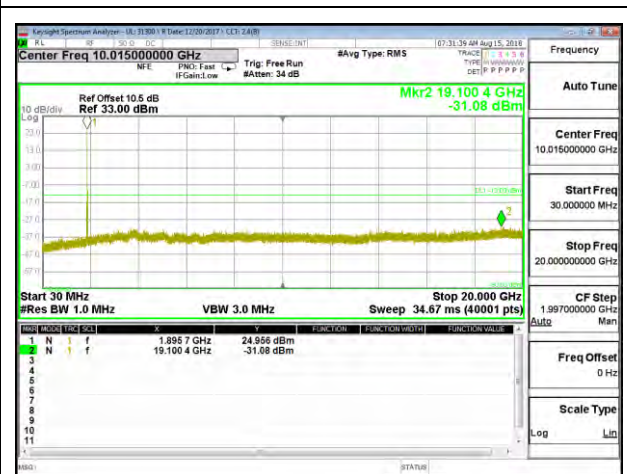
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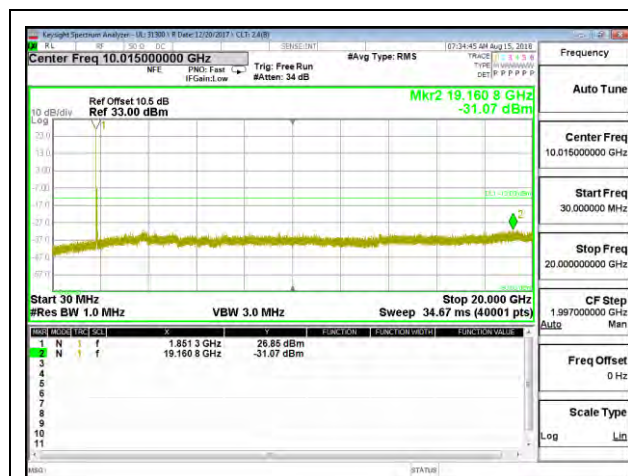
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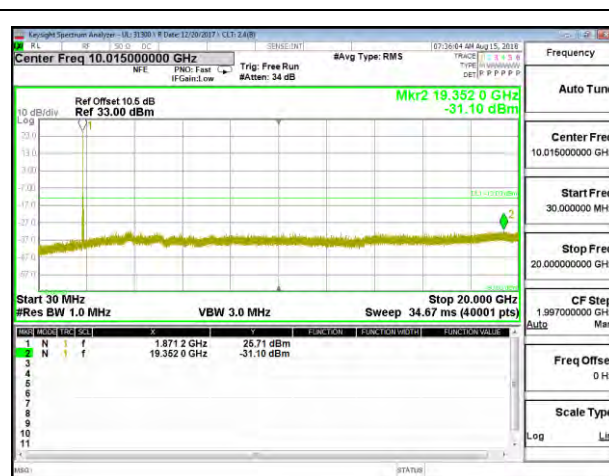
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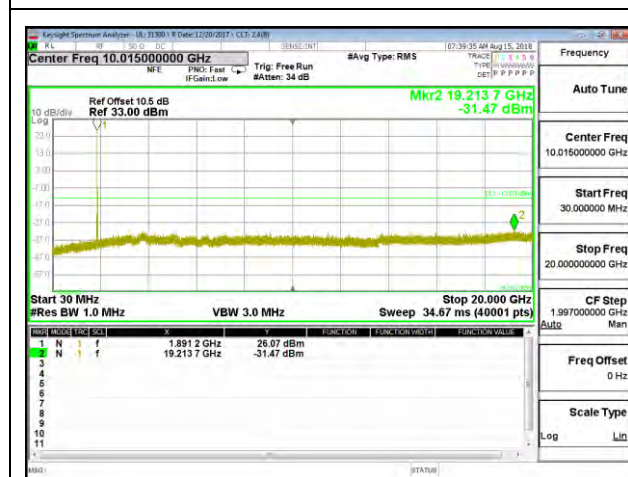
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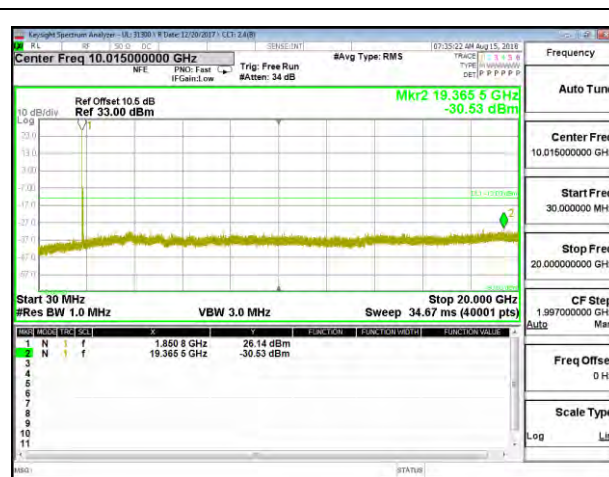
LTE B2 20MHz QPSK Low Channel RB1-0



LTE B2 20MHz QPSK Mid Channel RB1-0



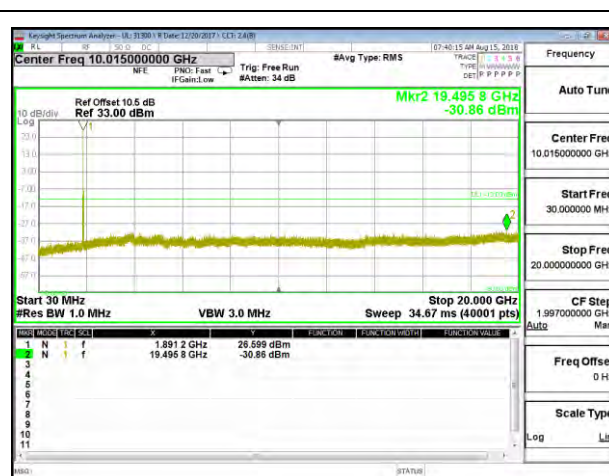
LTE B2 20MHz QPSK High Channel RB1-0



LTE B2 20MHz 16QAM Low Channel RB1-0

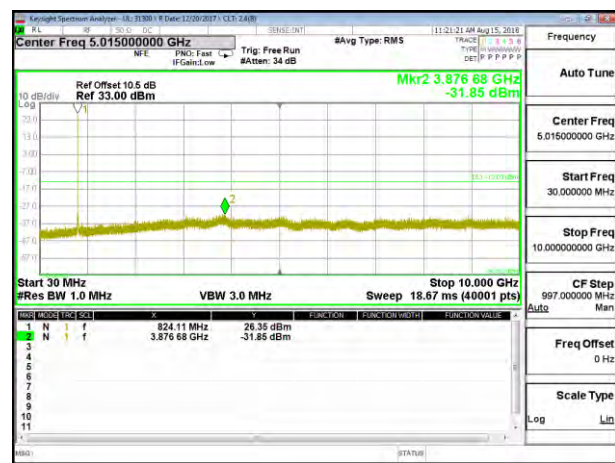


LTE B2 20MHz 16QAM Mid Channel RB1-0

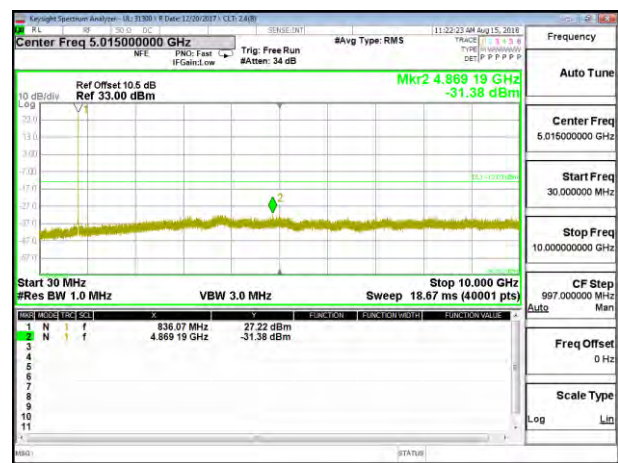


LTE B2 20MHz 16QAM High Channel RB1-0

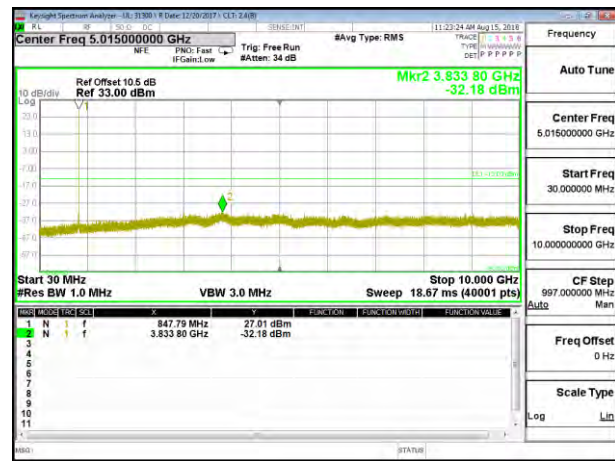
8.3.4. LTE BAND 5



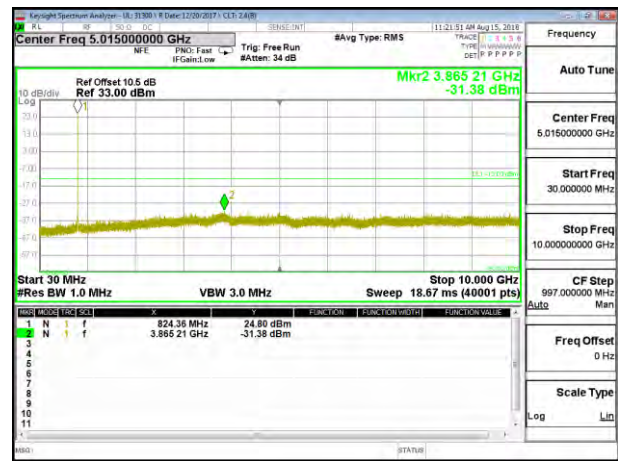
LTE B5 1.4MHz QPSK Low Channel RB1-0



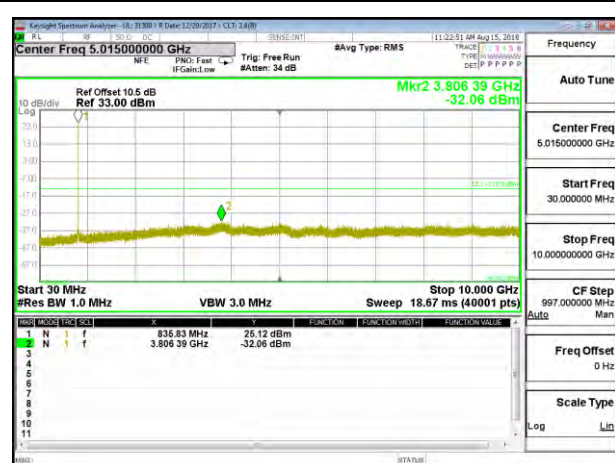
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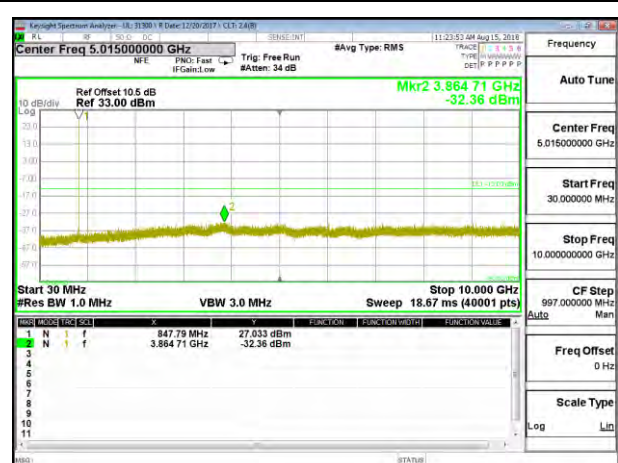
LTE B5 1.4MHz QPSK High Channel RB1-0



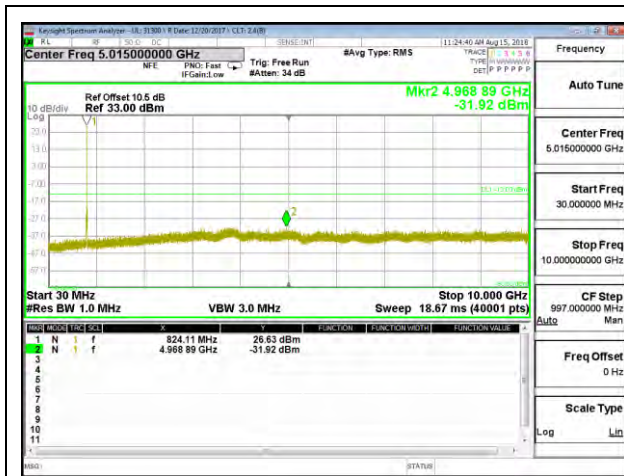
LTE B5 1.4MHz 16QAM Low Channel RB1-0



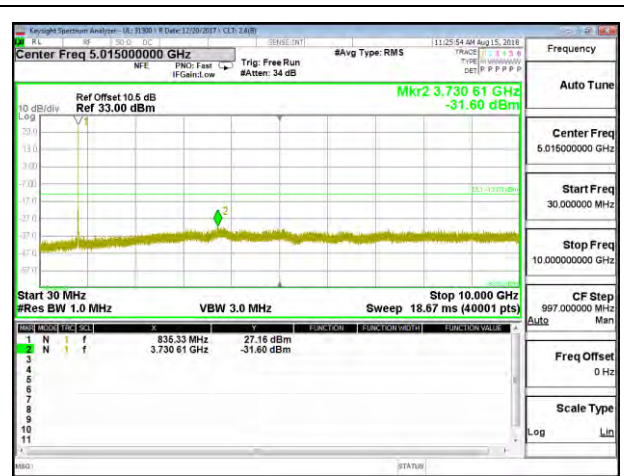
LTE B5 1.4MHz 16QAM Mid Channel RB1-0



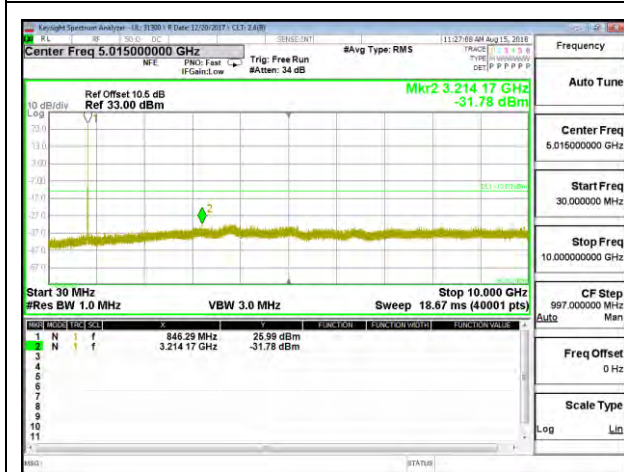
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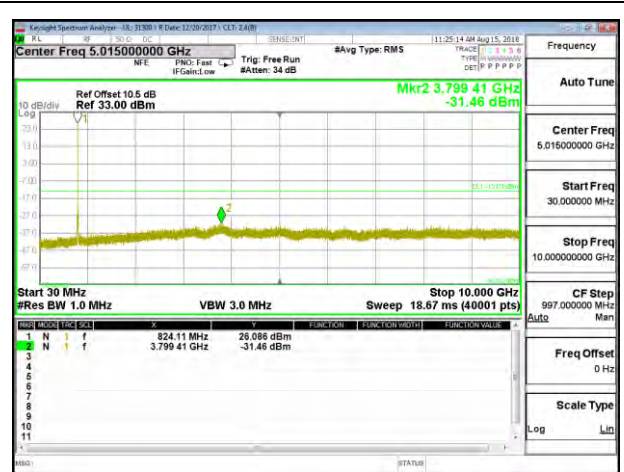
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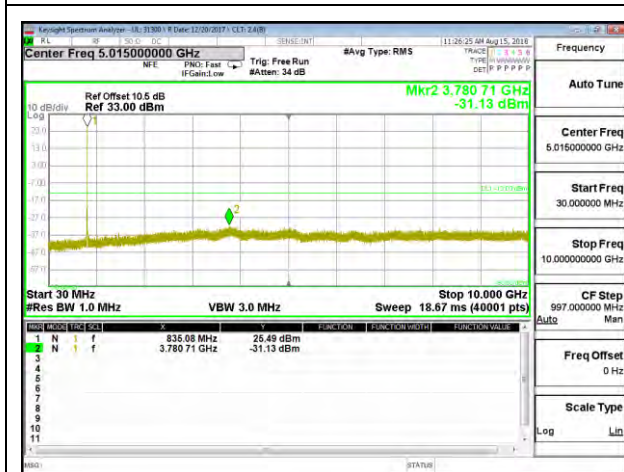
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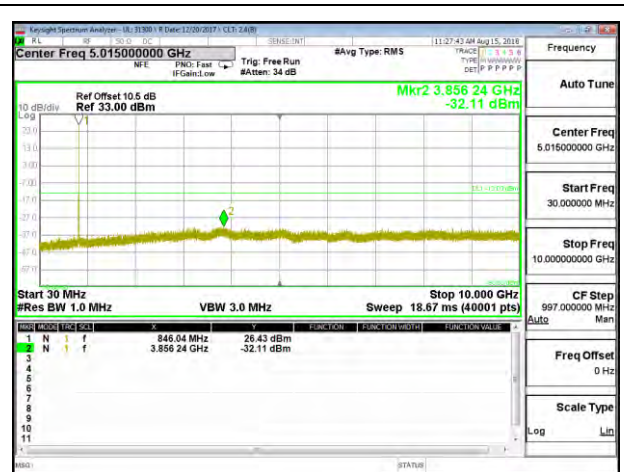
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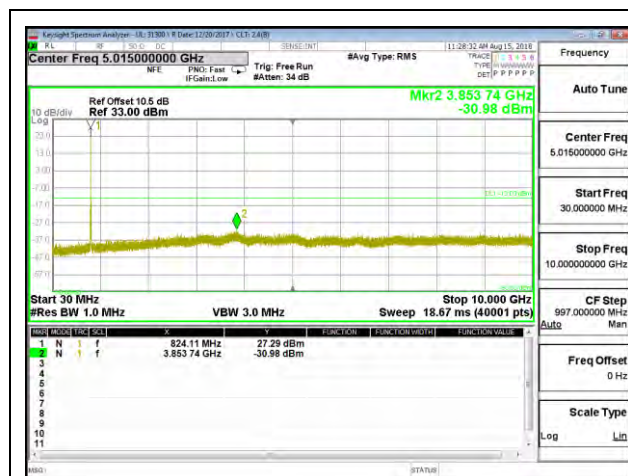
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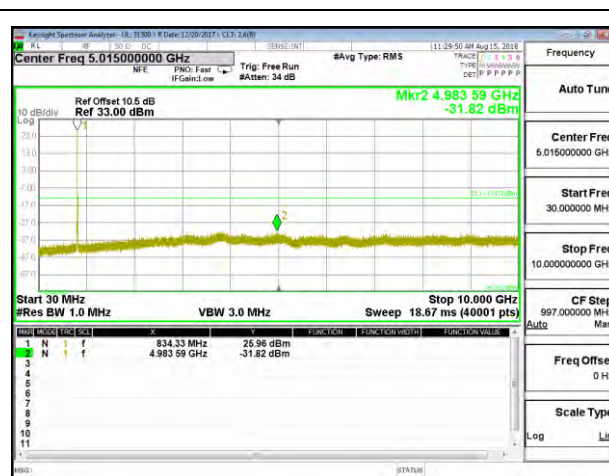
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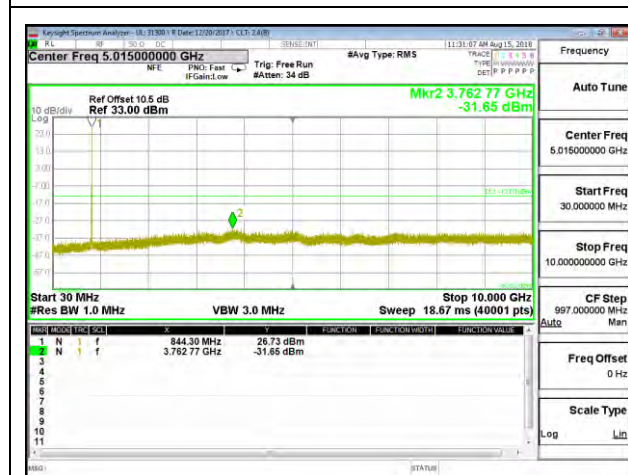
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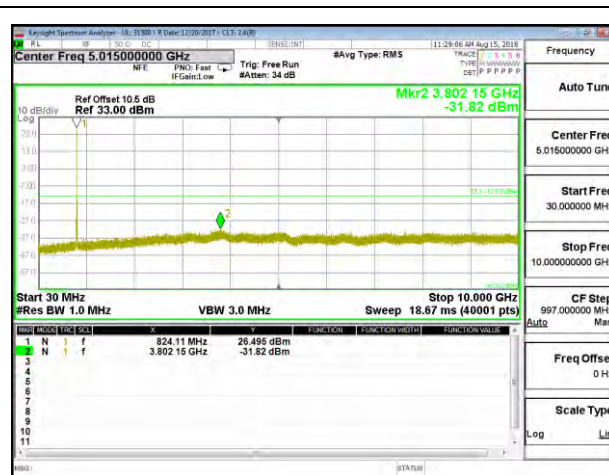
LTE B5 5MHz QPSK Low Channel RB1-0



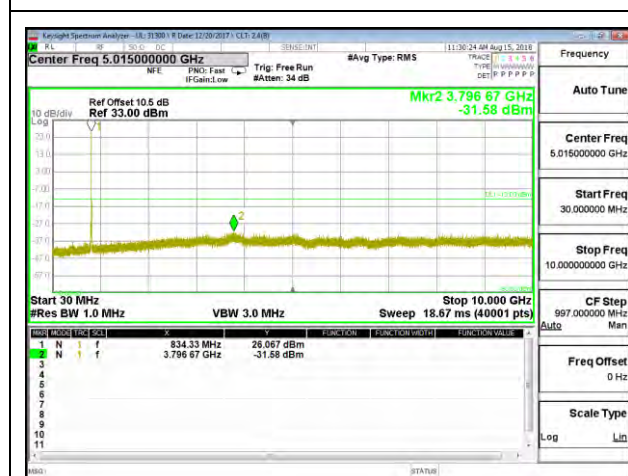
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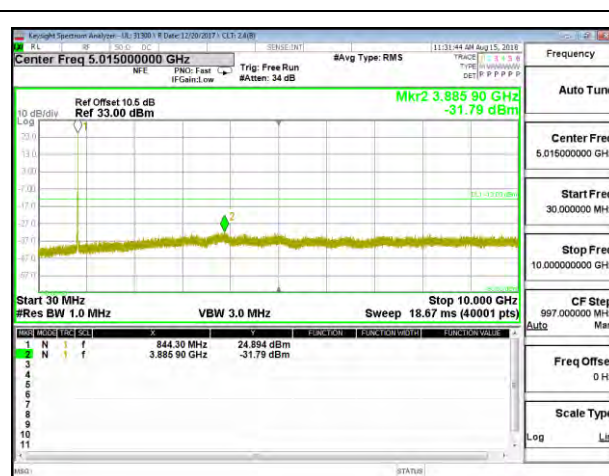
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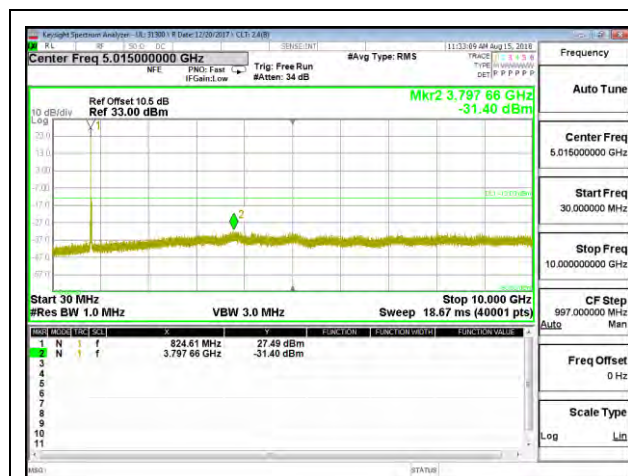
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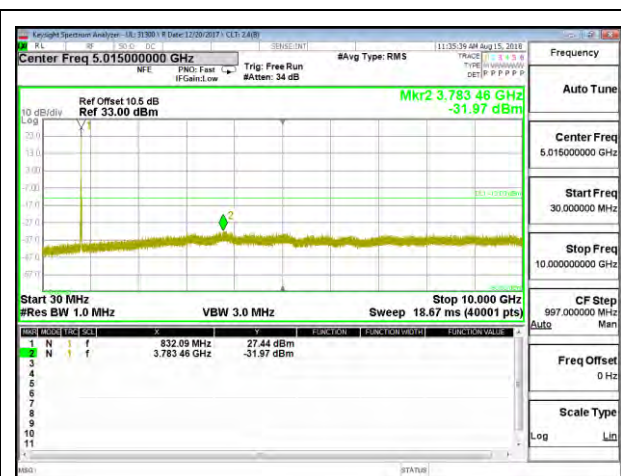
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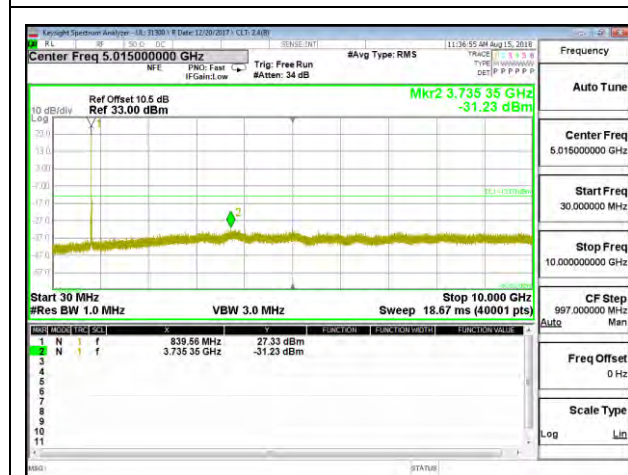
LTE B5 5MHz 16QAM High Channel RB1-0



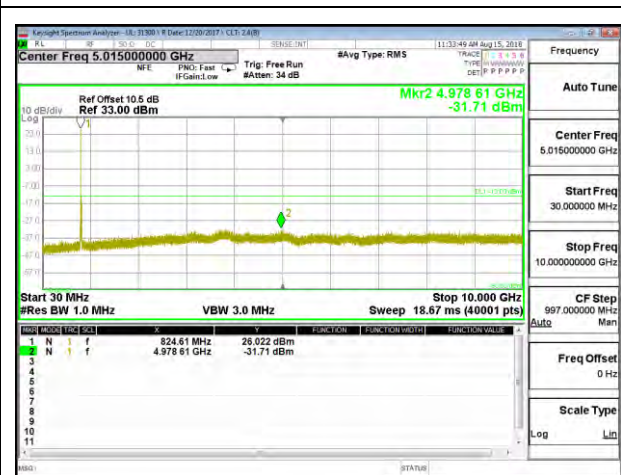
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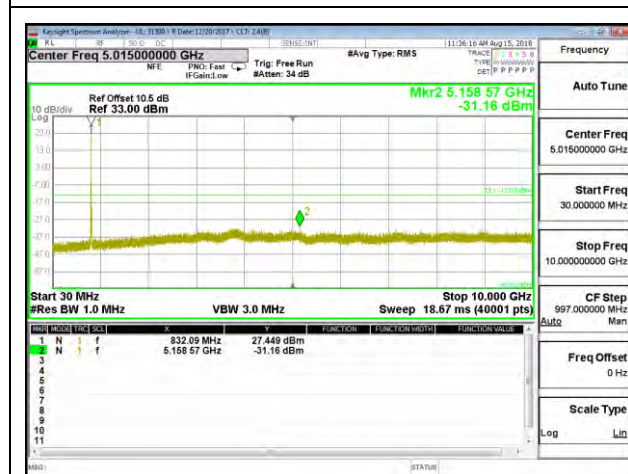
LTE B5 10MHz QPSK Mid Channel RB1-0



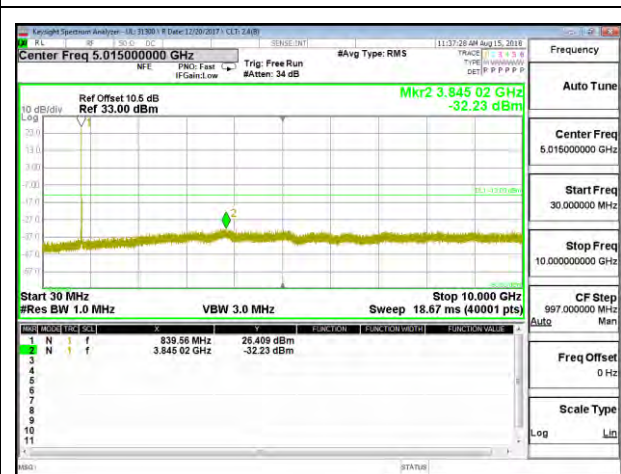
LTE B5 10MHz QPSK High Channel RB1-0



LTE B5 10MHz 16QAM Low Channel RB1-0



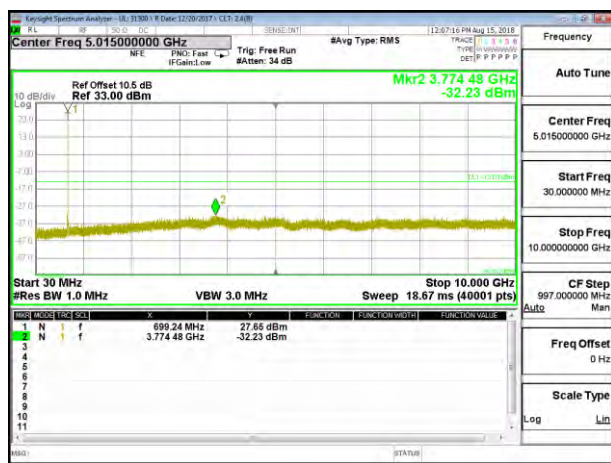
LTE B5 10MHz 16QAM Mid Channel RB1-0



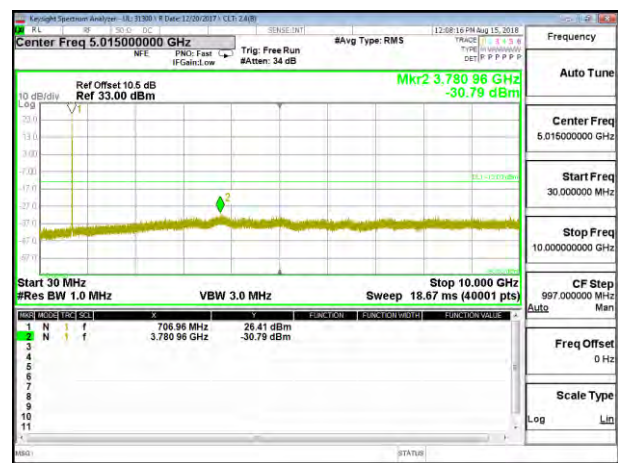
LTE B5 10MHz 16QAM High Channel RB1-0



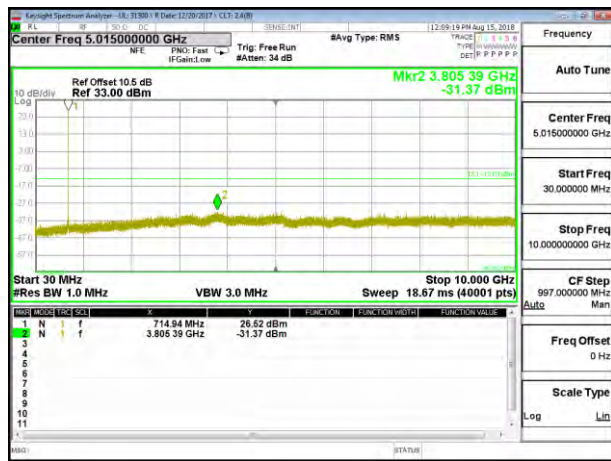
8.3.5. LTE BAND 12



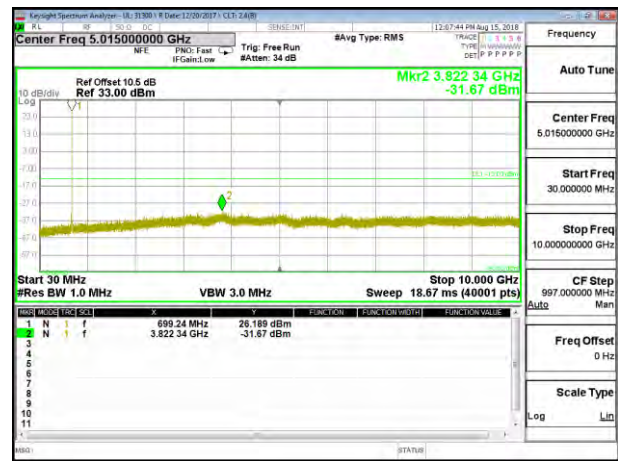
LTE B12 1.4MHz QPSK Low Channel RB1-0



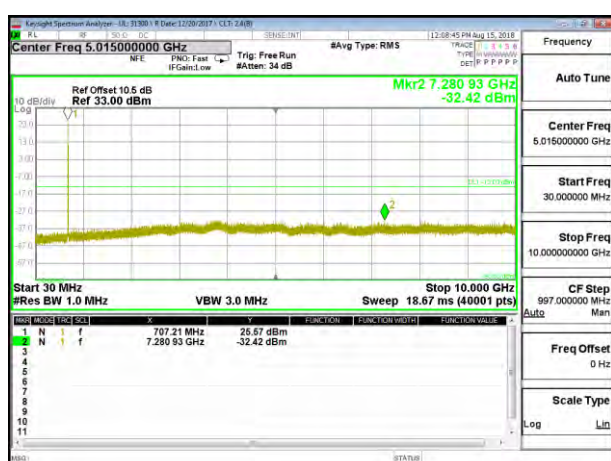
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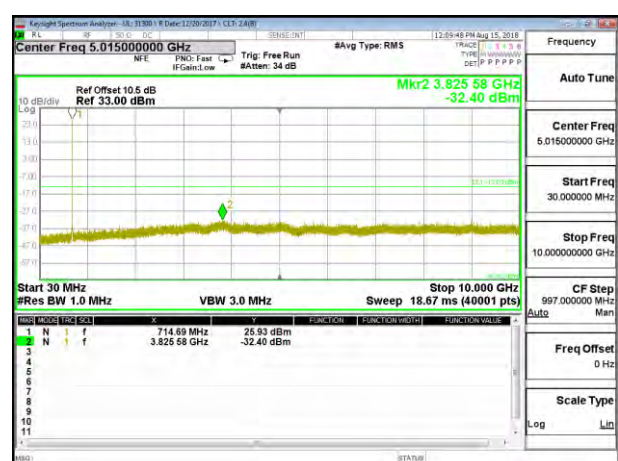
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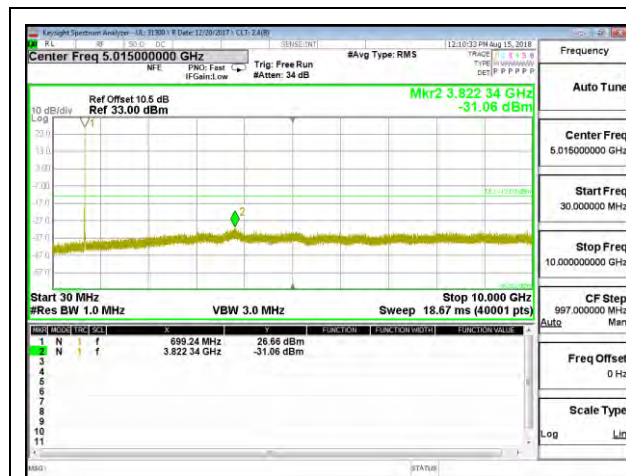
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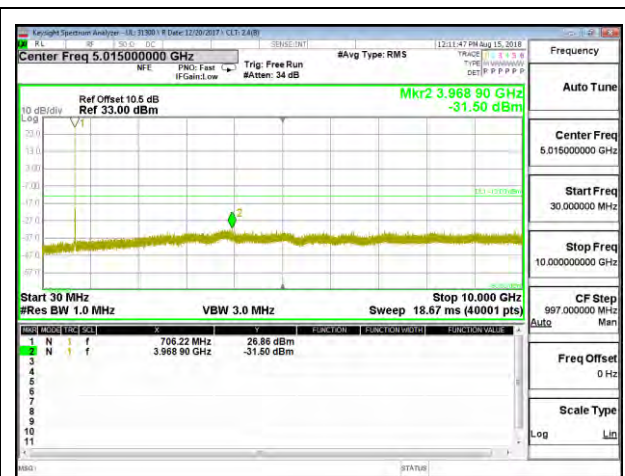
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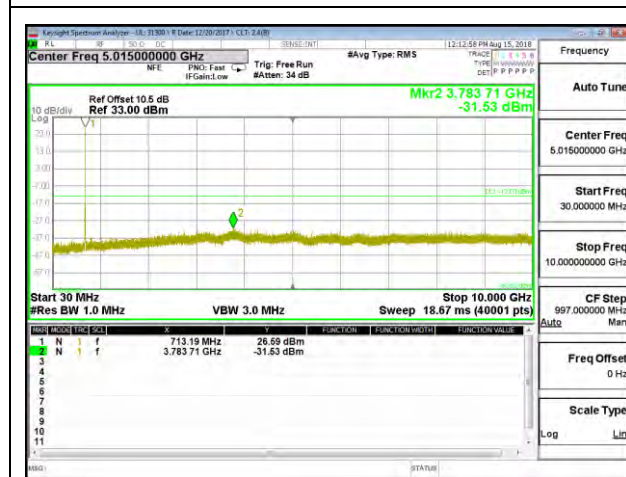
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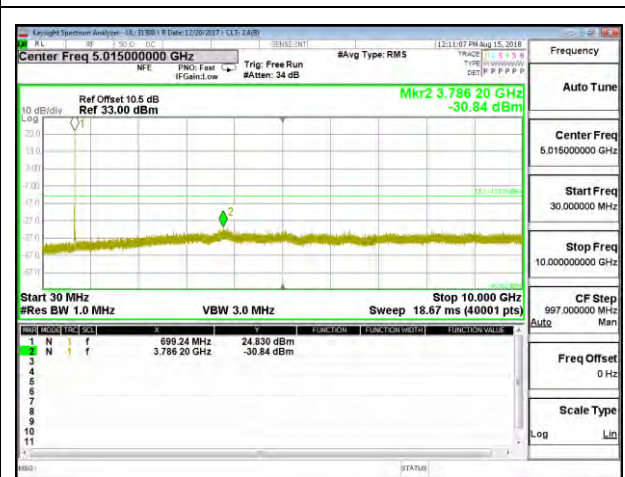
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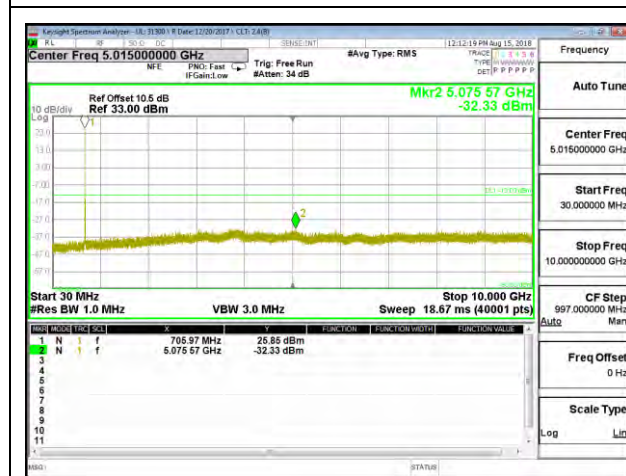
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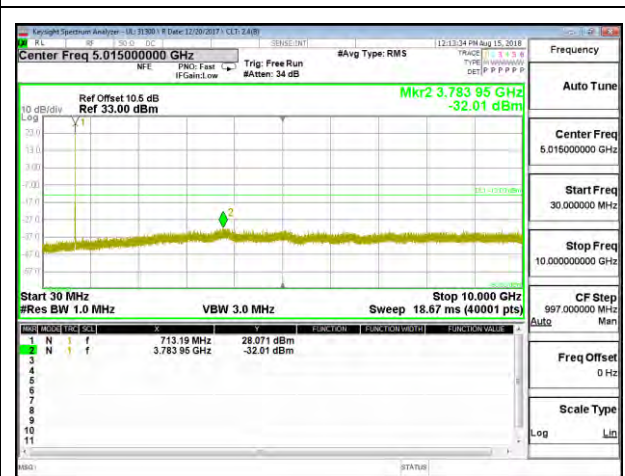
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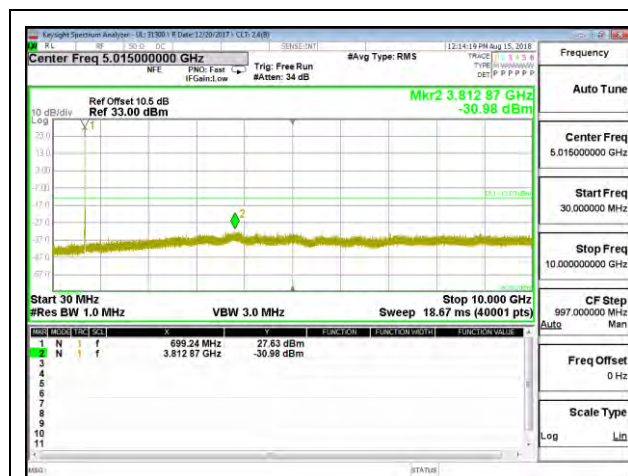
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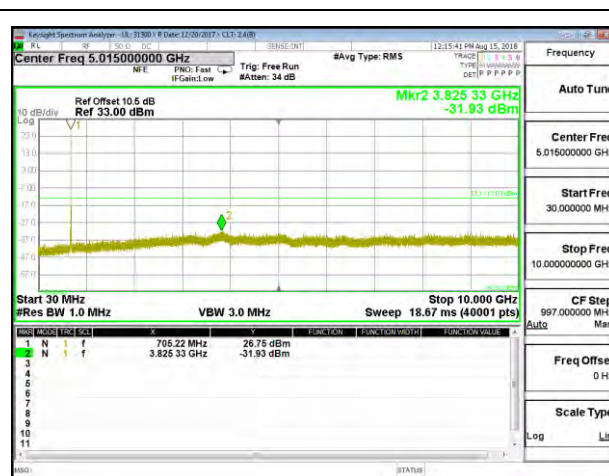
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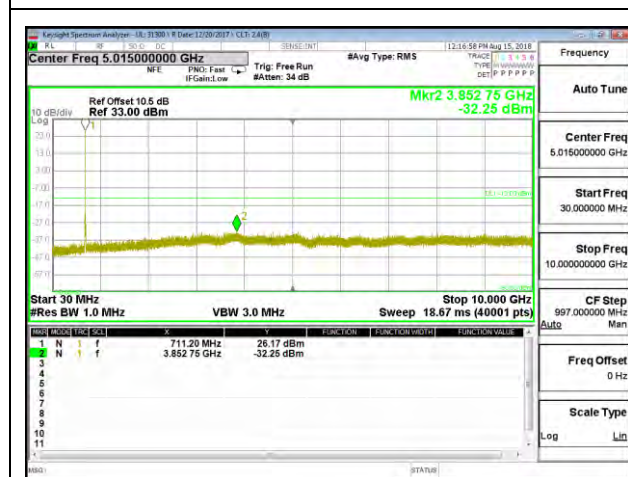
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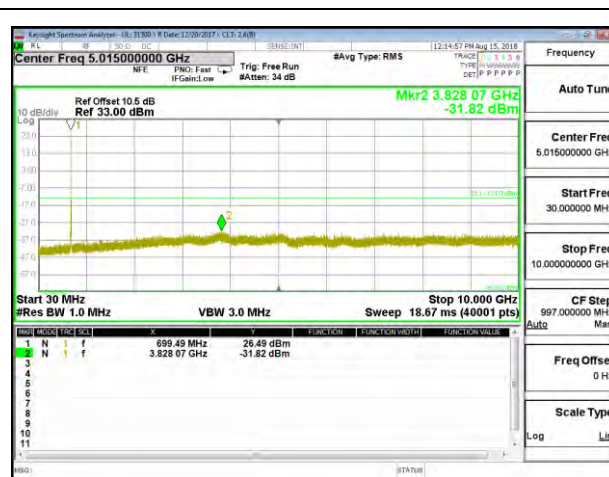
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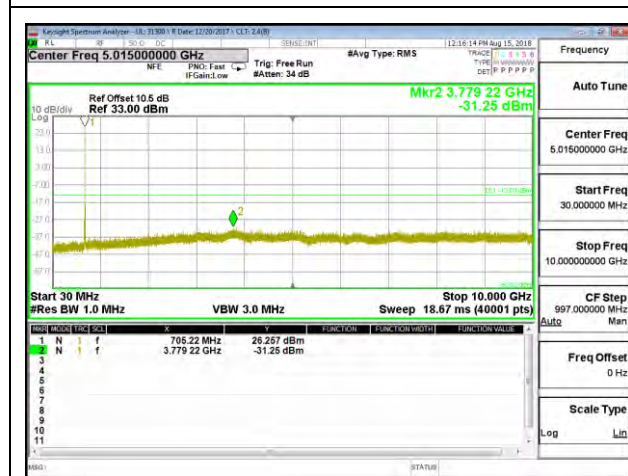
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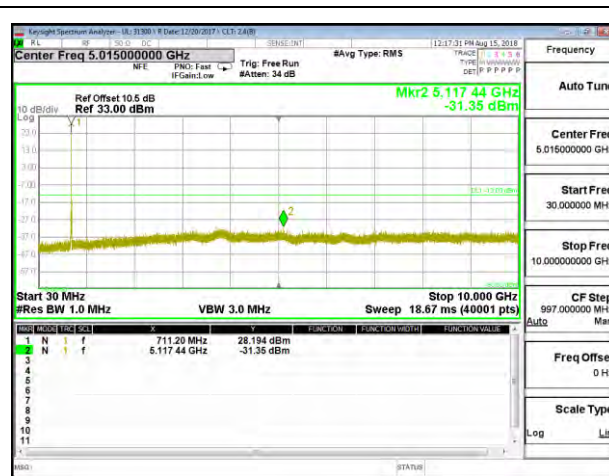
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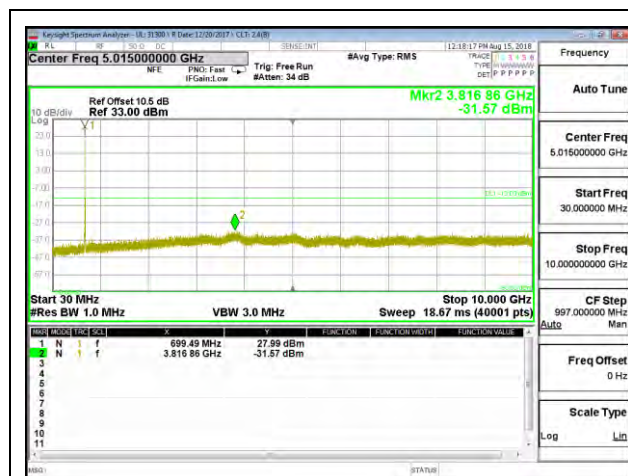
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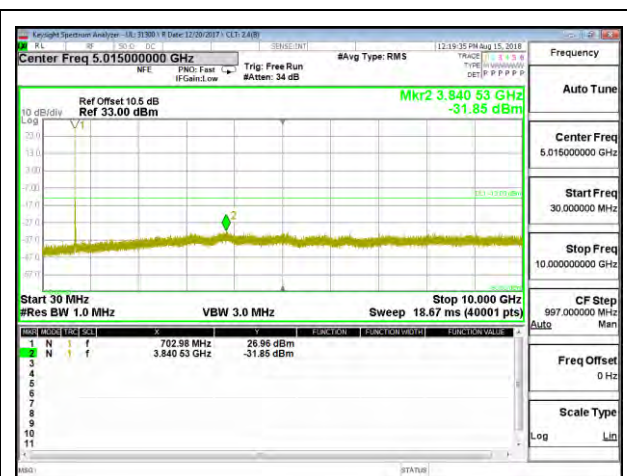
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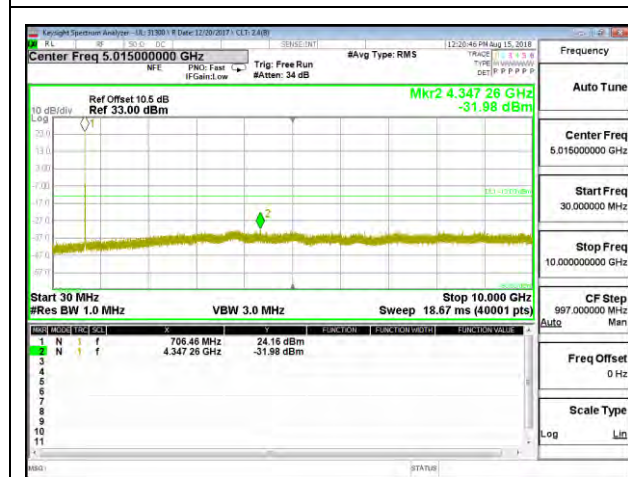
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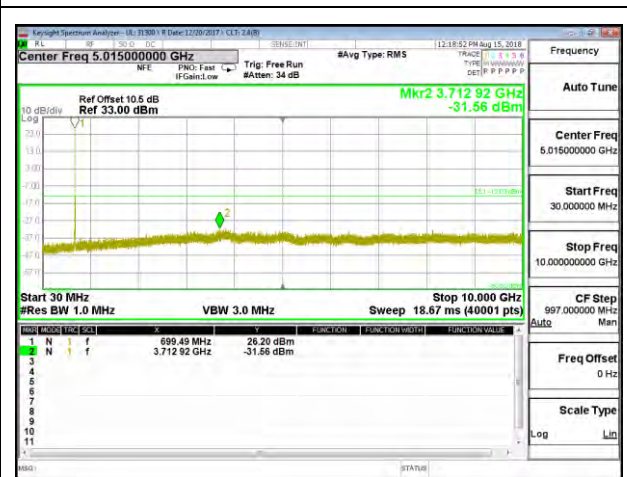
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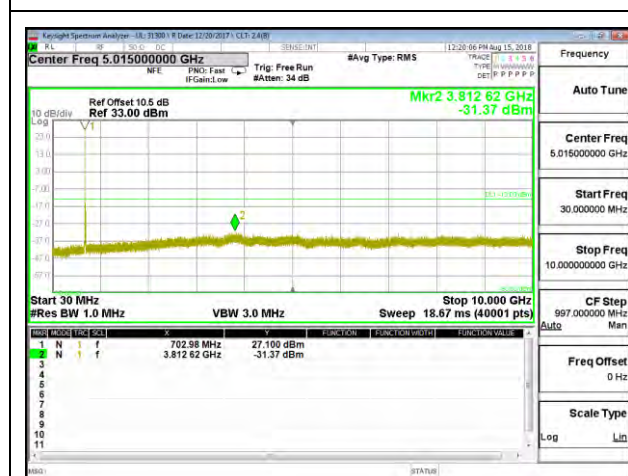
LTE B12 10MHz QPSK Mid Channel RB1-0



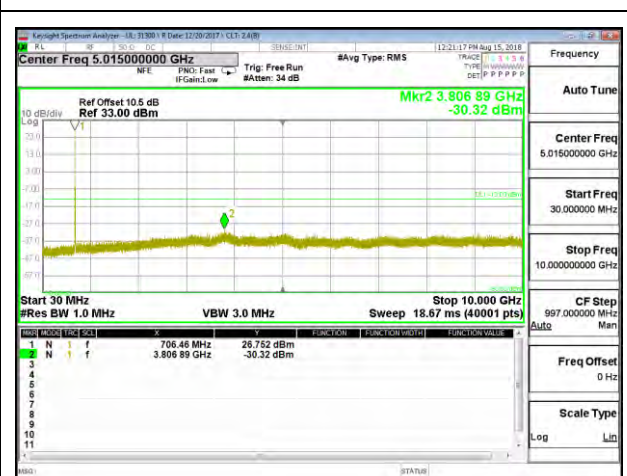
LTE B12 10MHz QPSK High Channel RB1-0



LTE B12 10MHz 16QAM Low Channel RB1-0



LTE B12 10MHz 16QAM Mid Channel RB1-0



LTE B12 10MHz 16QAM High Channel RB1-0