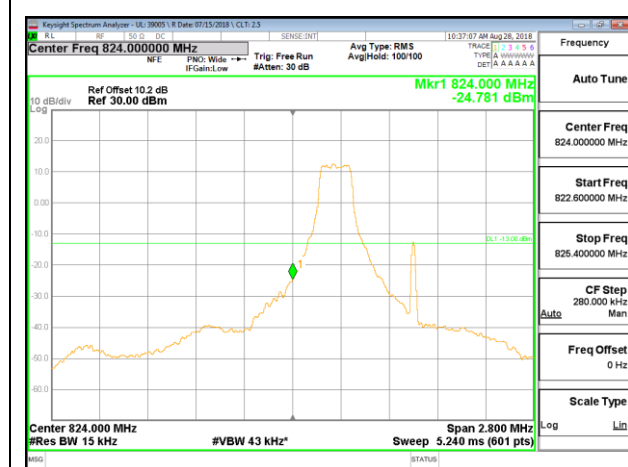
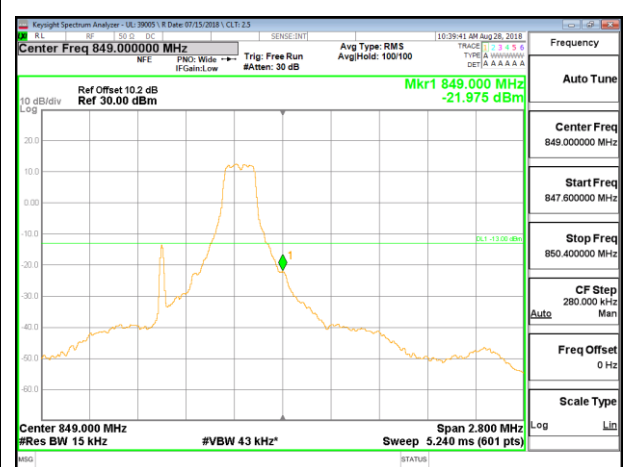


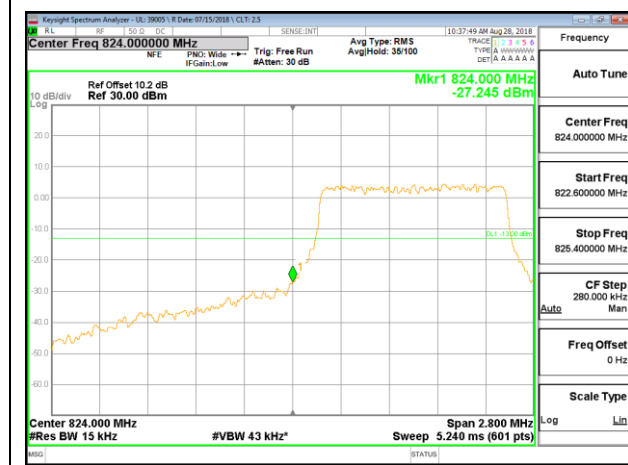
8.2.9. LTE BAND 26 BANDEDGE (FCC PART 22)



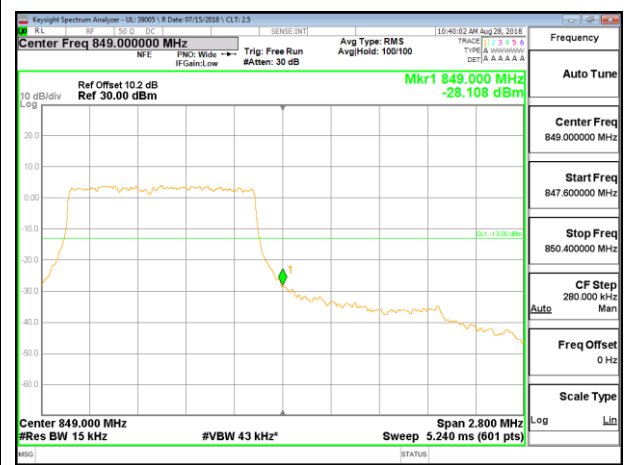
LTE B26 1.4MHz QPSK Low Channel RB1-0



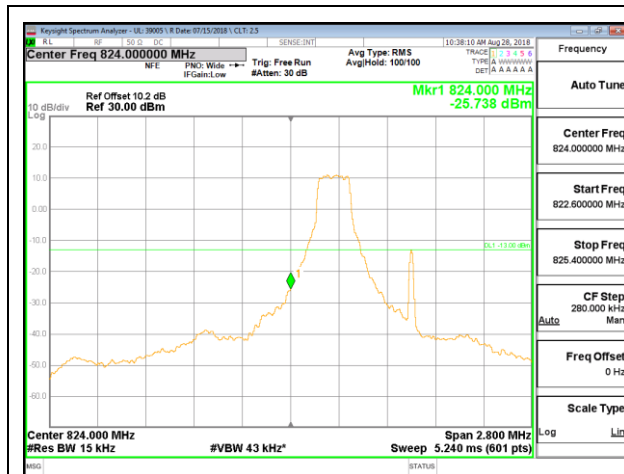
LTE B26 1.4MHz QPSK High Channel RB1-0



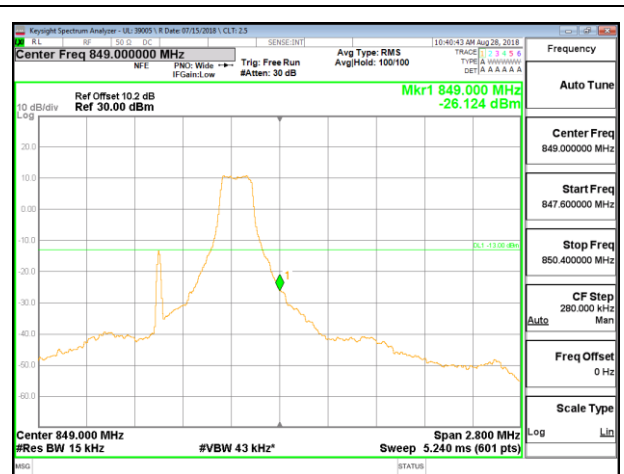
LTE B26 1.4MHz QPSK Low Channel RB6-0



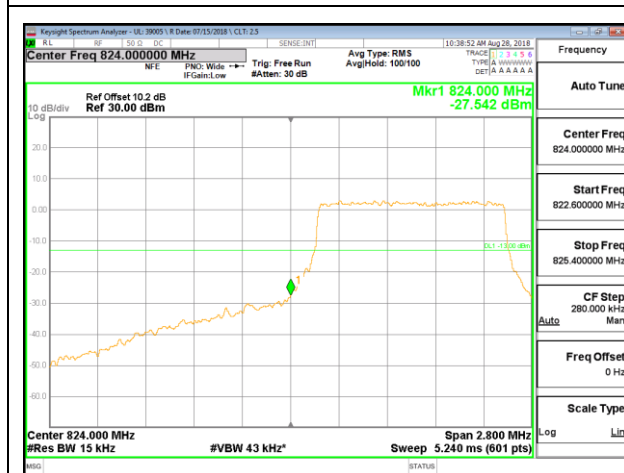
LTE B26 1.4MHz QPSK High Channel RB6-0



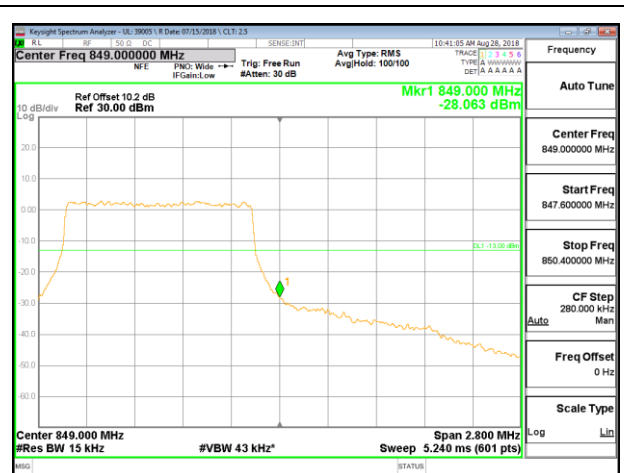
LTE B26 1.4MHz 16QAM Low Channel RB1-0



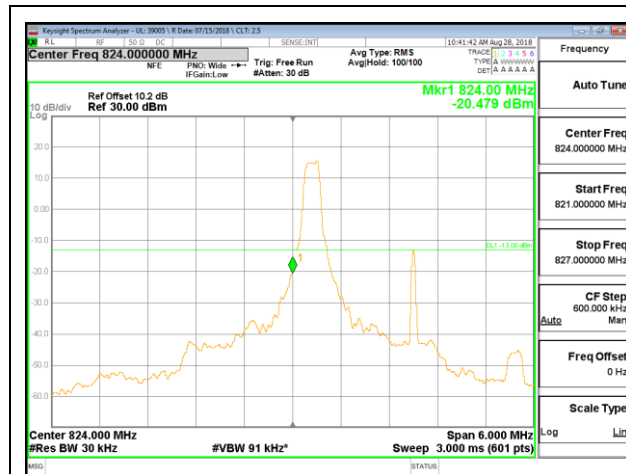
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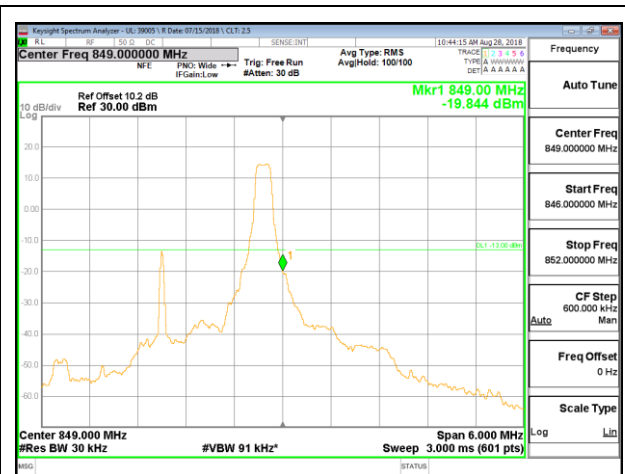
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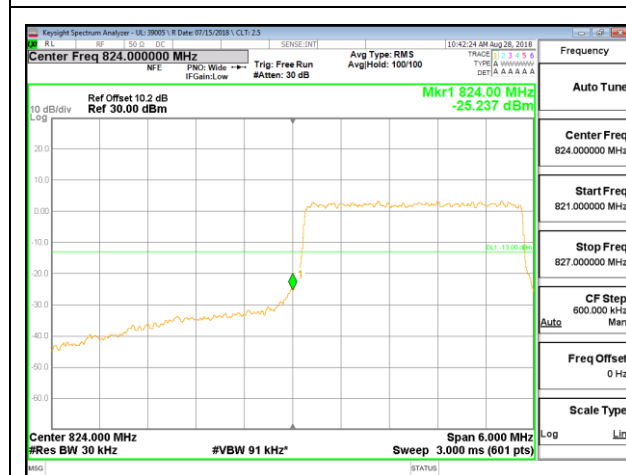
LTE B26 1.4MHz 16QAM High Channel RB6-0



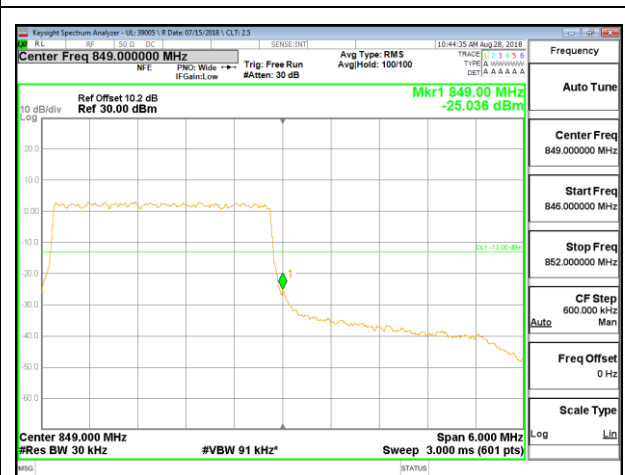
LTE B26 3MHz QPSK Low Channel RB1-0



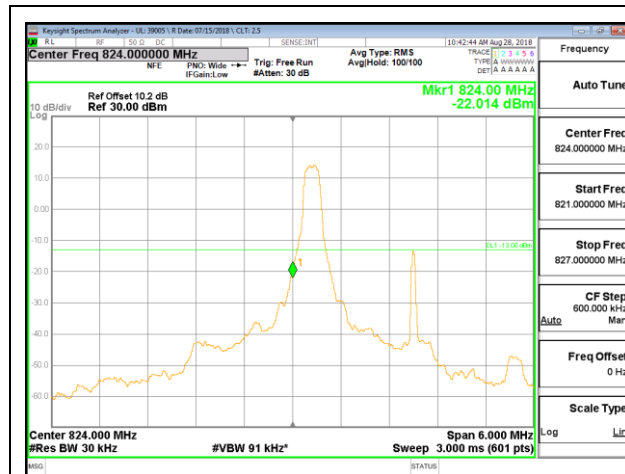
LTE B26 3MHz QPSK High Channel RB1-0



LTE B26 3MHz QPSK Low Channel RB15-0



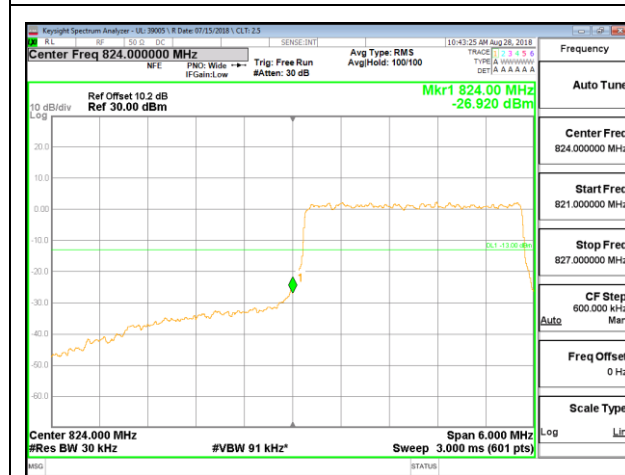
LTE B26 3MHz QPSK High Channel RB15-0



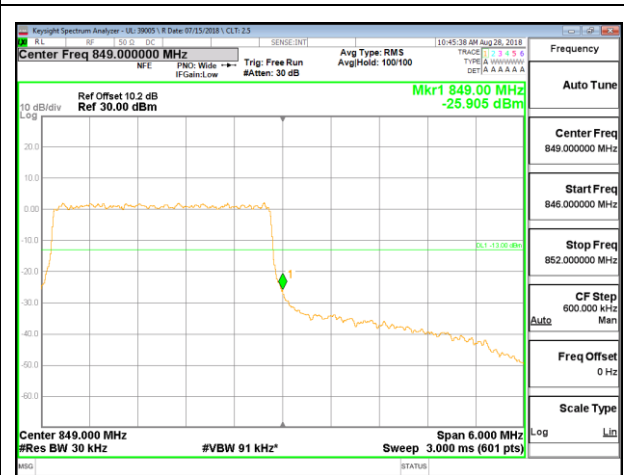
LTE B26 3MHz 16QAM Low Channel RB1-0



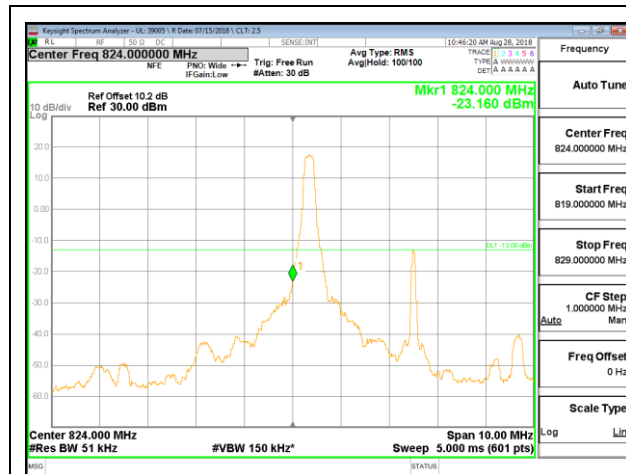
LTE B26 3MHz 16QAM High Channel RB1-0



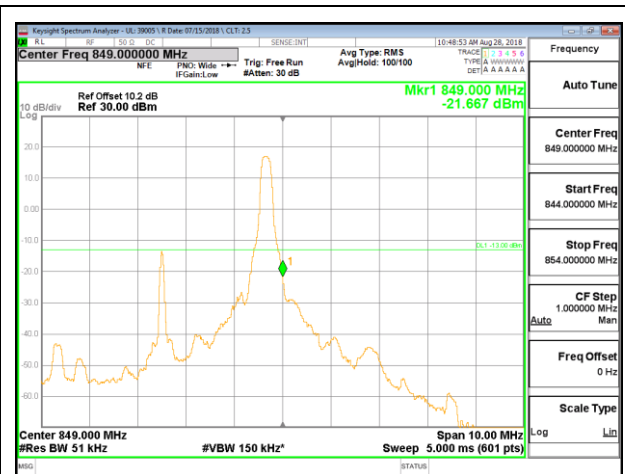
LTE B26 3MHz 16QAM Low Channel RB15-0



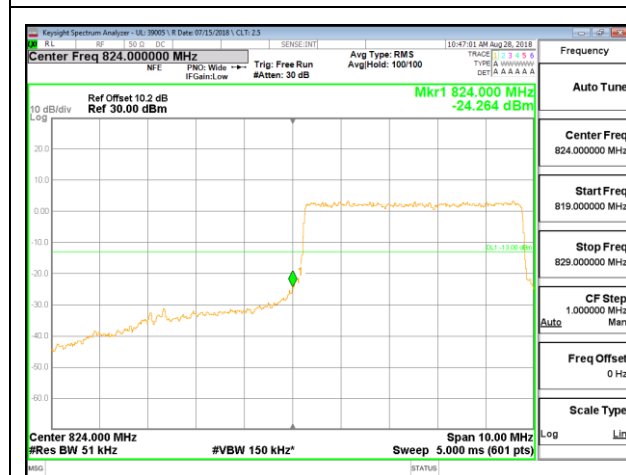
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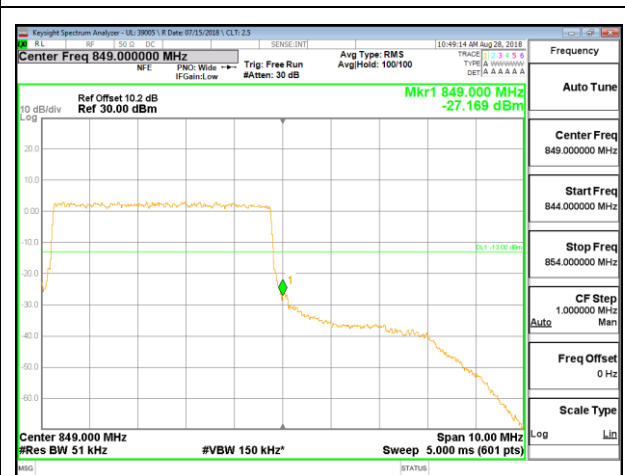
LTE B26 5MHz QPSK Low Channel RB1-0



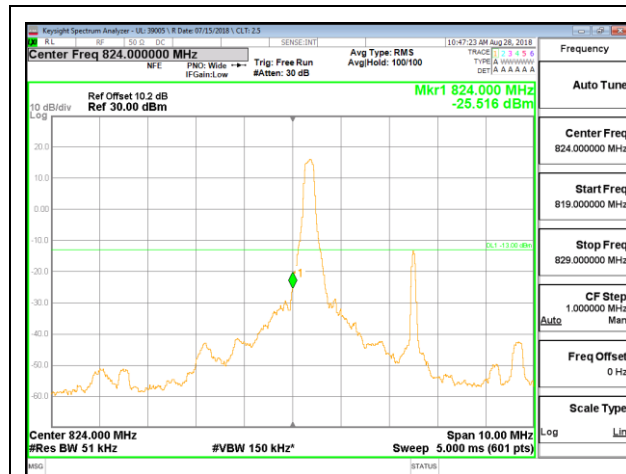
LTE B26 5MHz QPSK High Channel RB1-0



LTE B26 5MHz QPSK Low Channel RB25-0



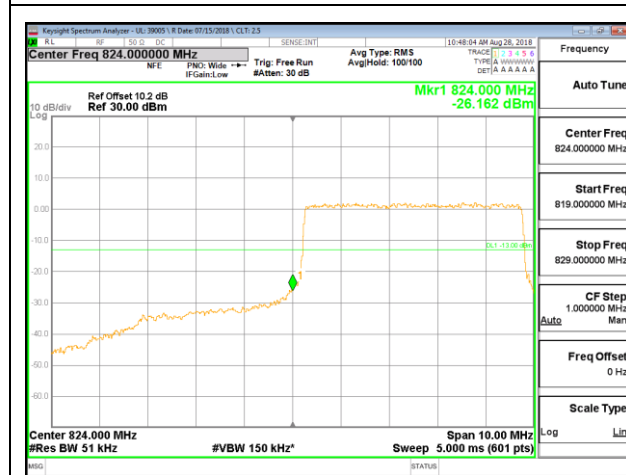
LTE B26 5MHz QPSK High Channel RB25-0



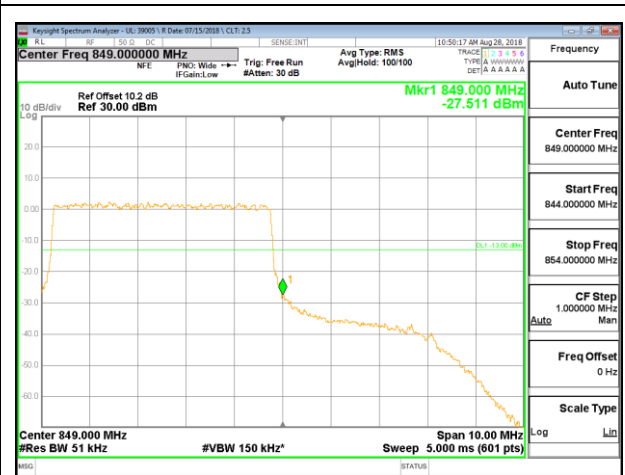
LTE B26 5MHz 16QAM Low Channel RB1-0



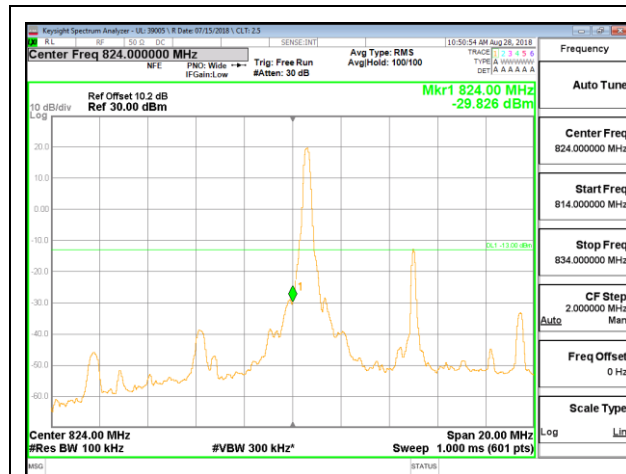
LTE B26 5MHz 16QAM High Channel RB1-0



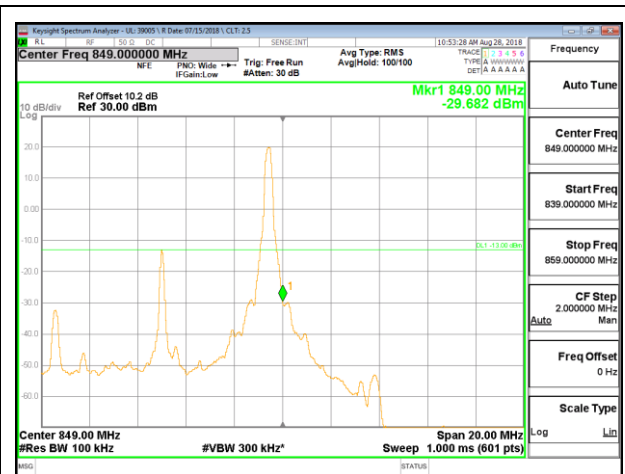
LTE B26 5MHz 16QAM Low Channel RB25-0



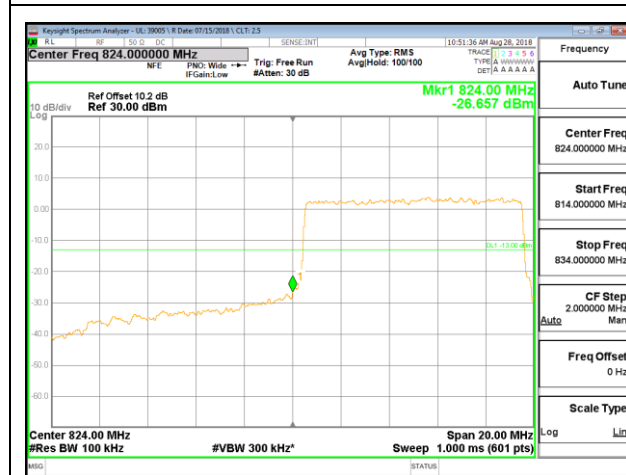
LTE B26 5MHz 16QAM High Channel RB25-0



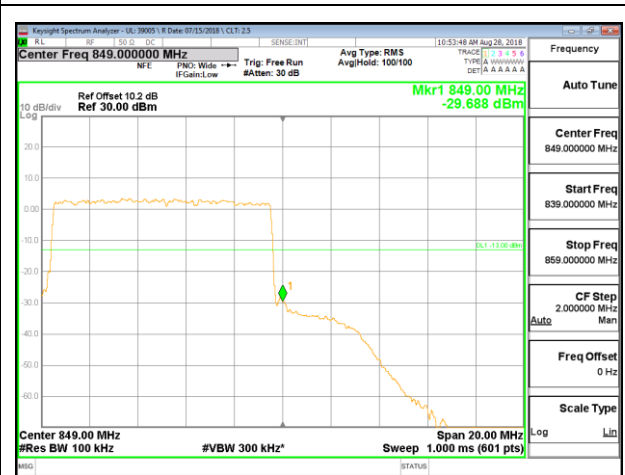
LTE B26 10MHz QPSK Low Channel RB1-0



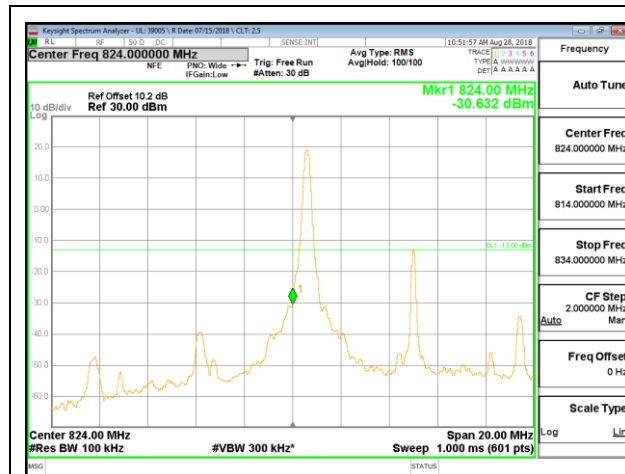
LTE B26 10MHz QPSK High Channel RB1-0



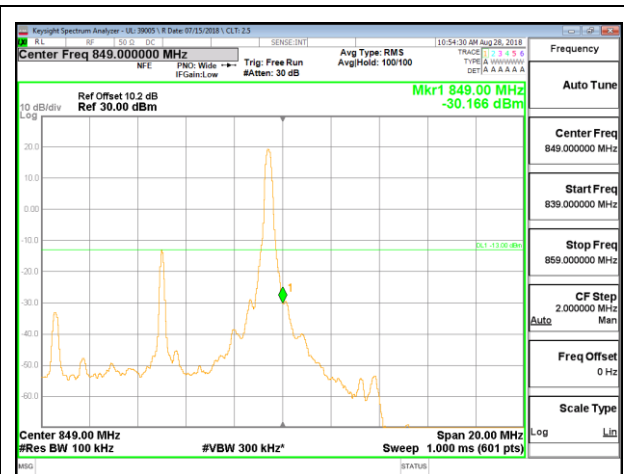
LTE B26 10MHz QPSK Low Channel RB50-0



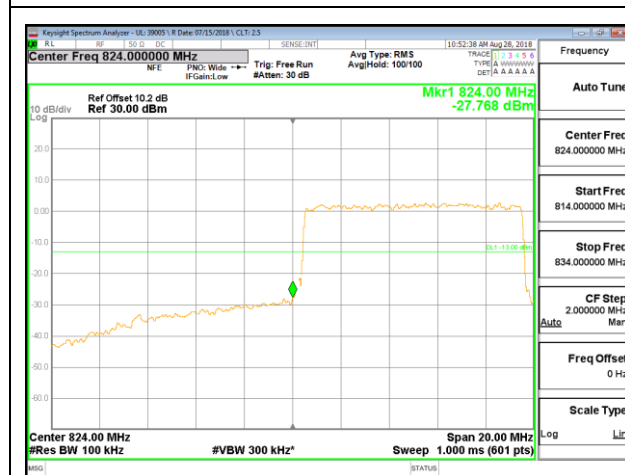
LTE B26 10MHz QPSK High Channel RB50-0



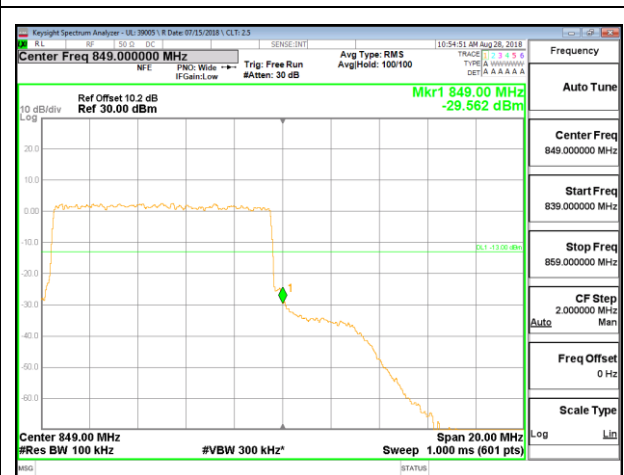
LTE B26 10MHz 16QAM Low Channel RB1-0



LTE B26 10MHz 16QAM High Channel RB1-0

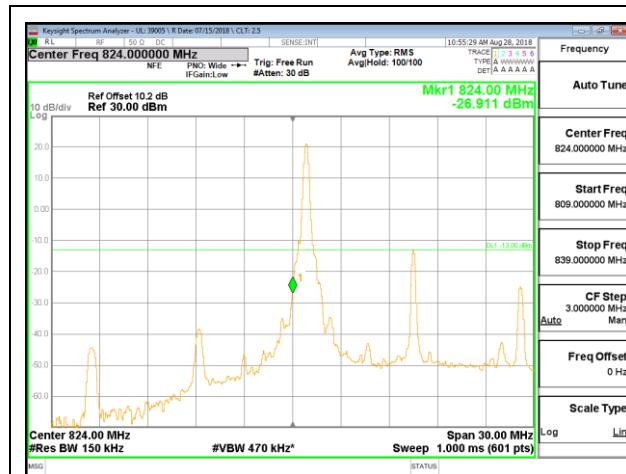


LTE B26 10MHz 16QAM Low Channel RB50-0

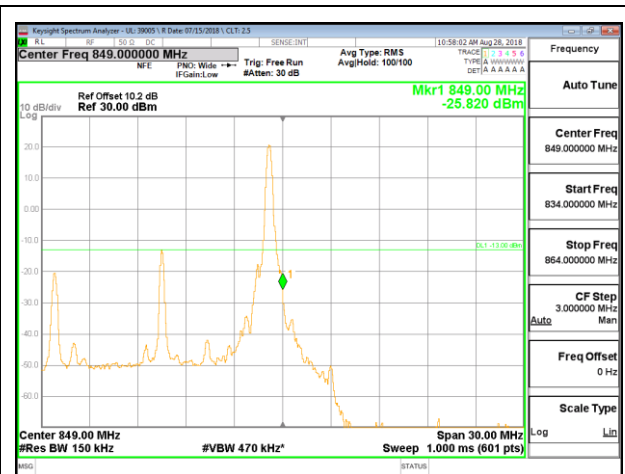


LTE B26 10MHz 16QAM High Channel RB50-0

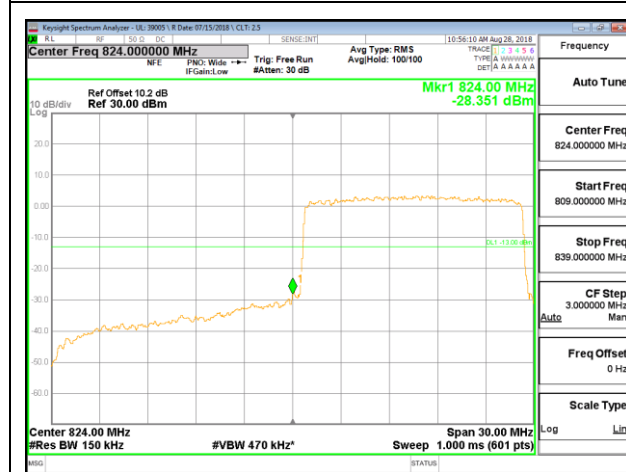




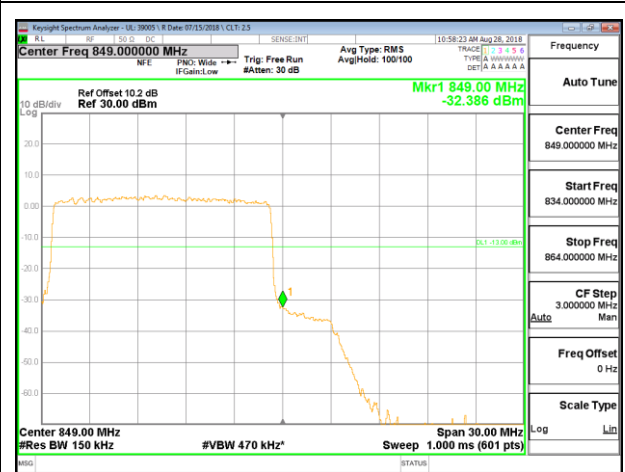
LTE B26 15MHz QPSK Low Channel RB1-0



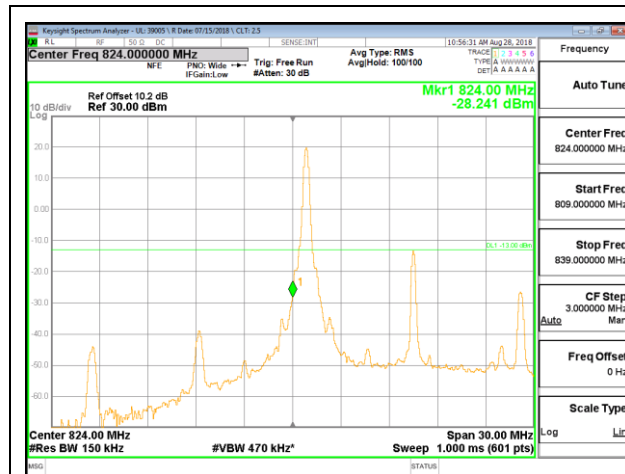
LTE B26 15MHz QPSK High Channel RB1-0



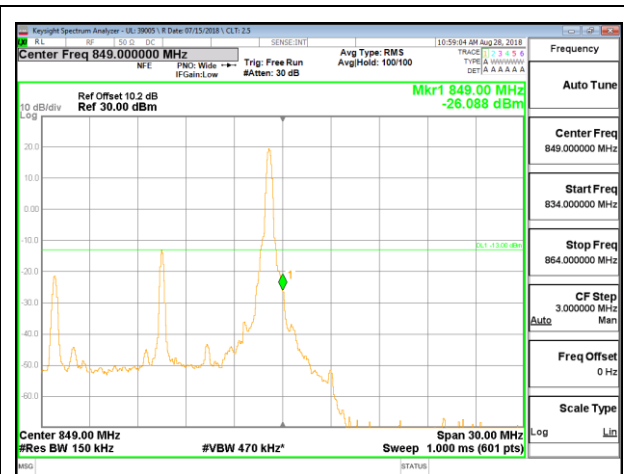
LTE B26 15MHz QPSK Low Channel RB75-0



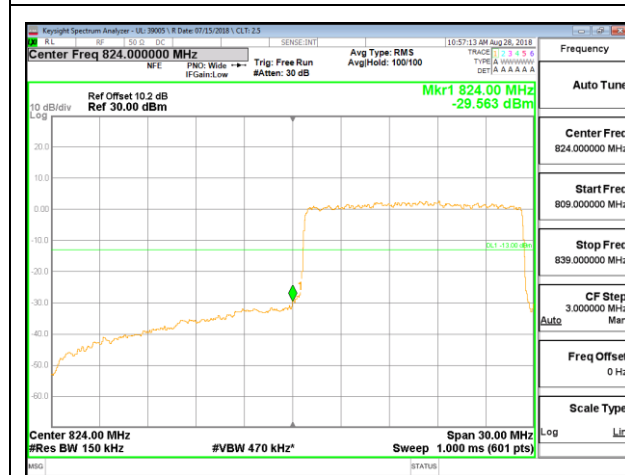
LTE B26 15MHz QPSK High Channel RB75-0



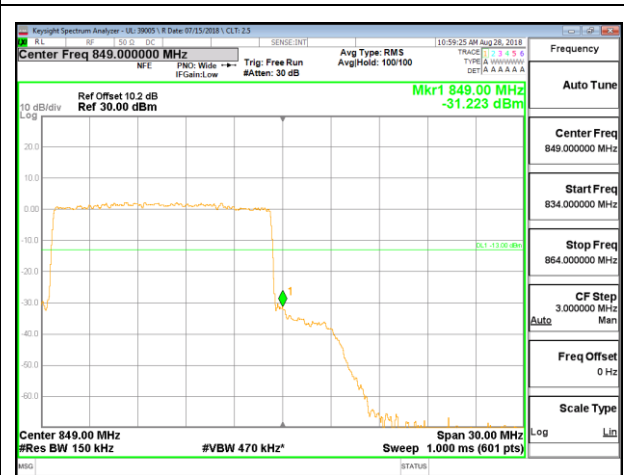
LTE B26 15MHz 16QAM Low Channel RB1-0



LTE B26 15MHz 16QAM High Channel RB1-0

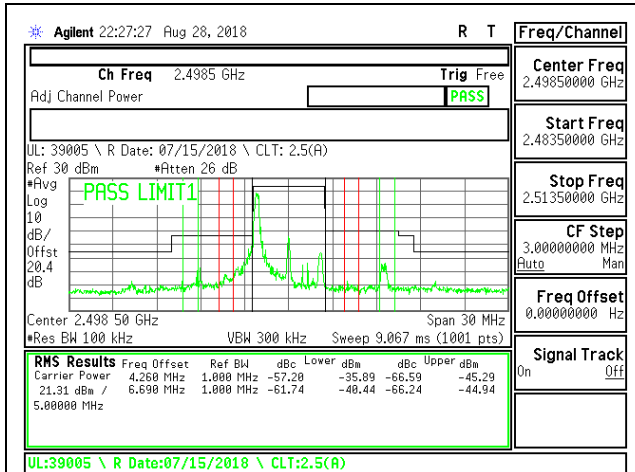


LTE B26 15MHz 16QAM Low Channel RB75-0

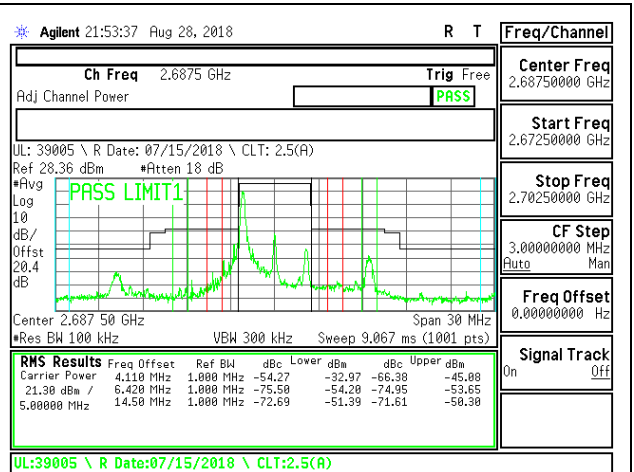


LTE B26 15MHz 16QAM High Channel RB75-0

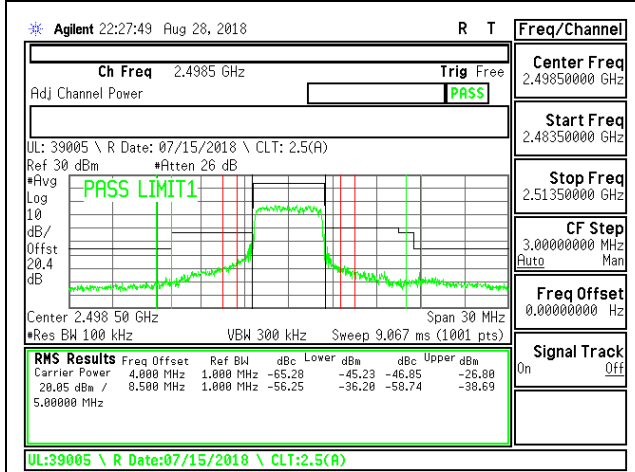
8.2.10. LTE BAND 41 ADJACENT CHANNEL POWER



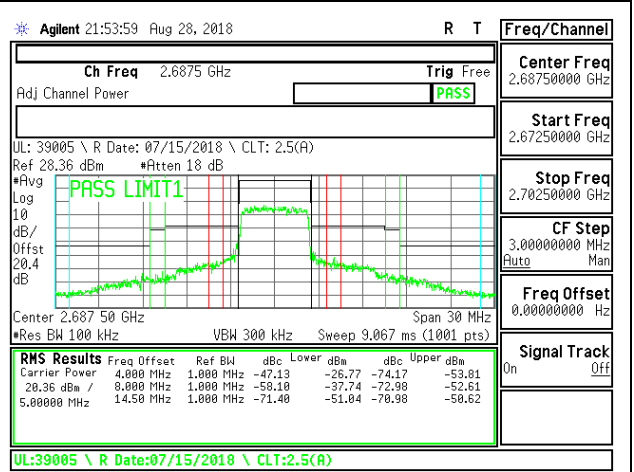
LTE B41 5MHz QPSK Low Channel RB1-0



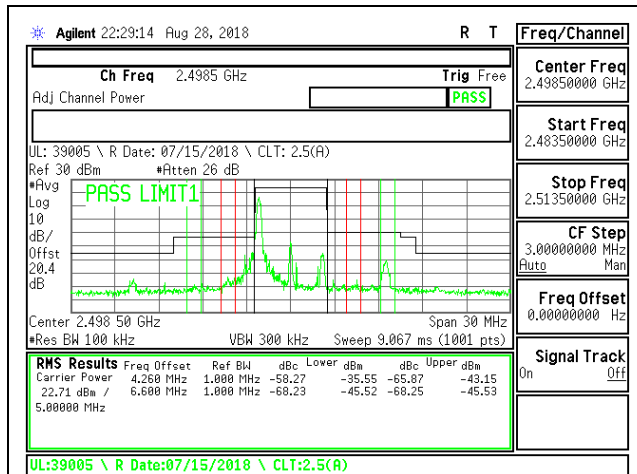
LTE B41 5MHz QPSK High Channel RB1-0



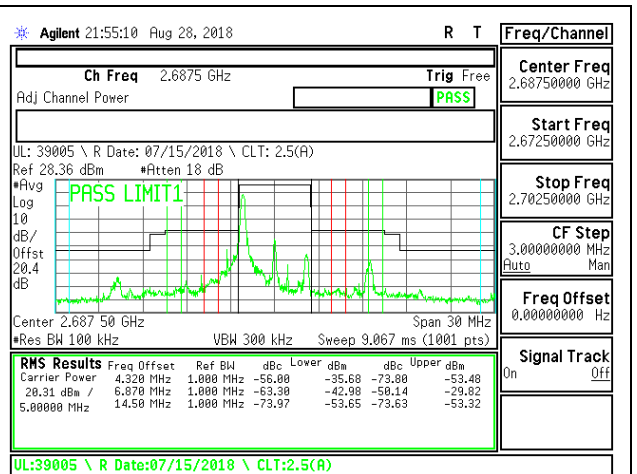
LTE B41 5MHz QPSK Low Channel RB25-0



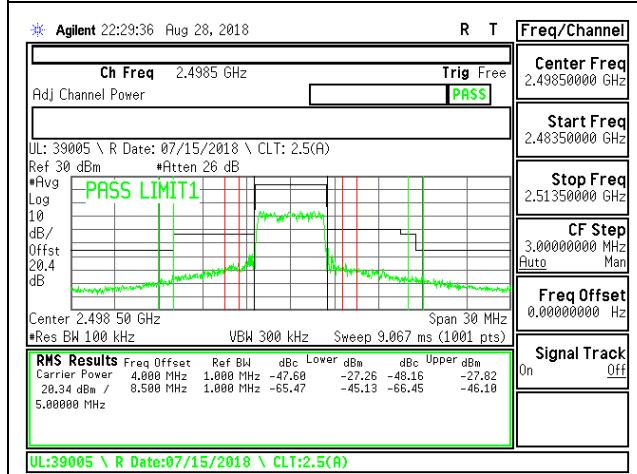
LTE B41 5MHz QPSK High Channel RB25-0



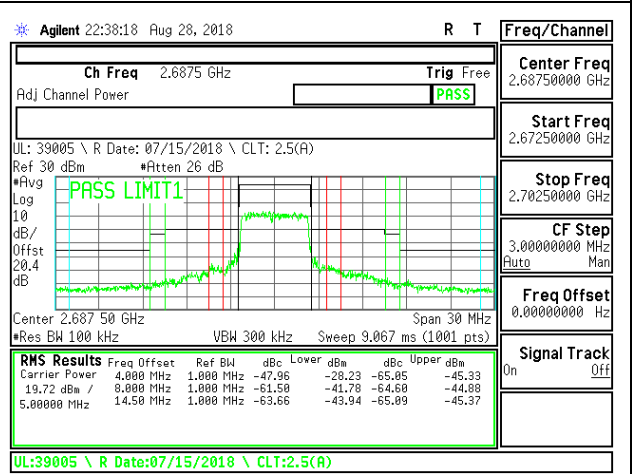
LTE B41 5MHz 16QAM Low Channel RB1-0



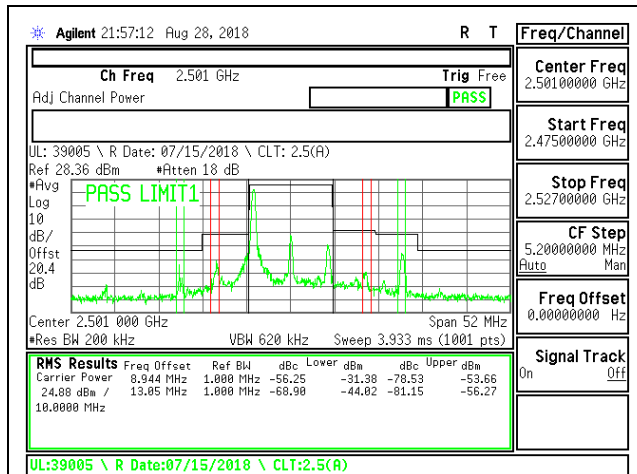
LTE B41 5MHz 16QAM High Channel RB1-0



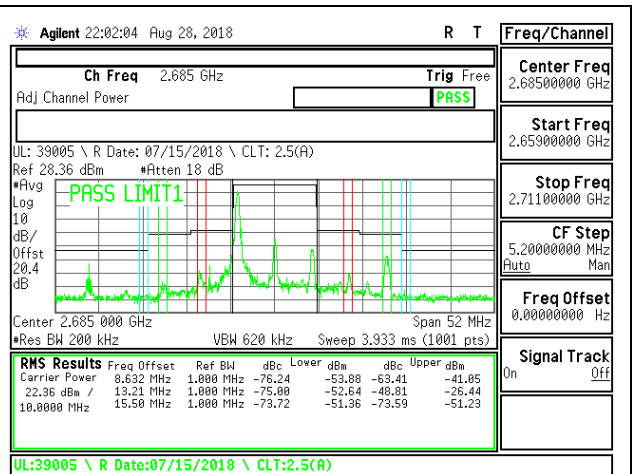
LTE B41 5MHz 16QAM Low Channel RB25-0



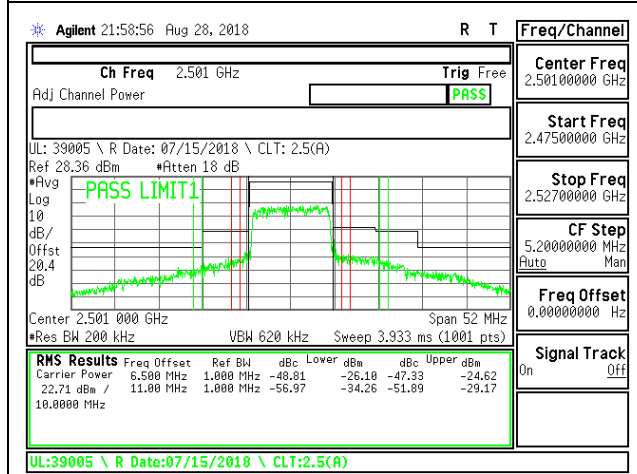
LTE B41 5MHz 16QAM High Channel RB25-0



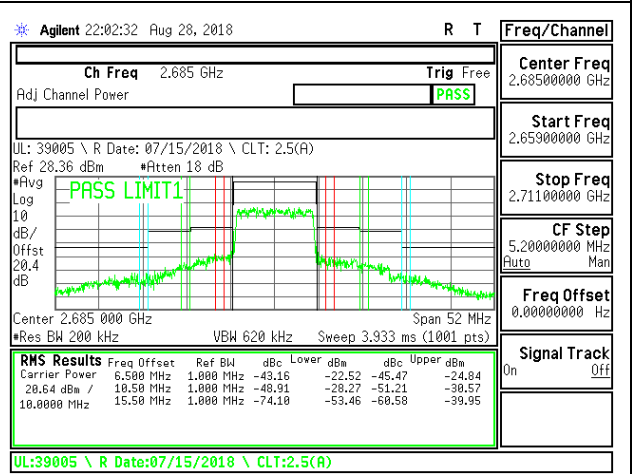
LTE B41 10MHz QPSK Low Channel RB1-0



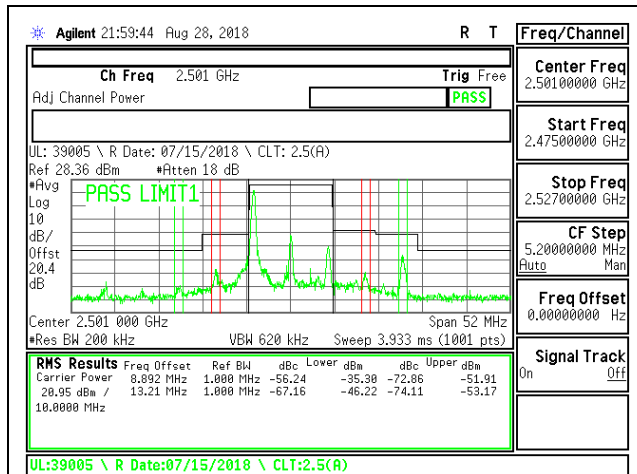
LTE B41 10MHz QPSK High Channel RB1-0



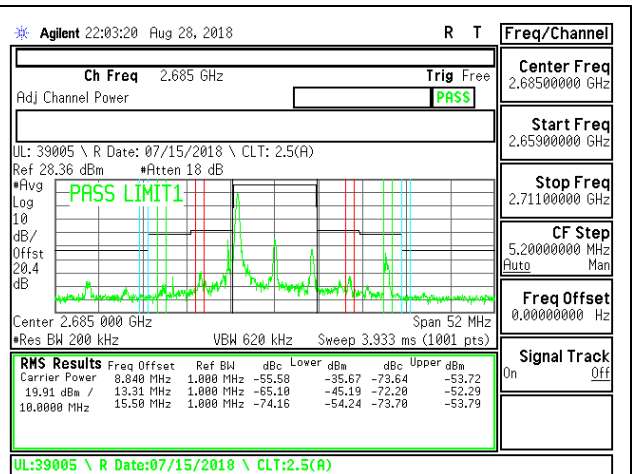
LTE B41 10MHz QPSK Low Channel RB50-0



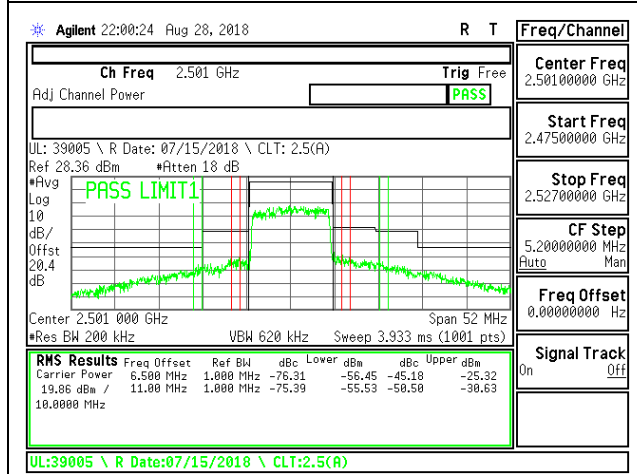
LTE B41 10MHz QPSK High Channel RB50-0



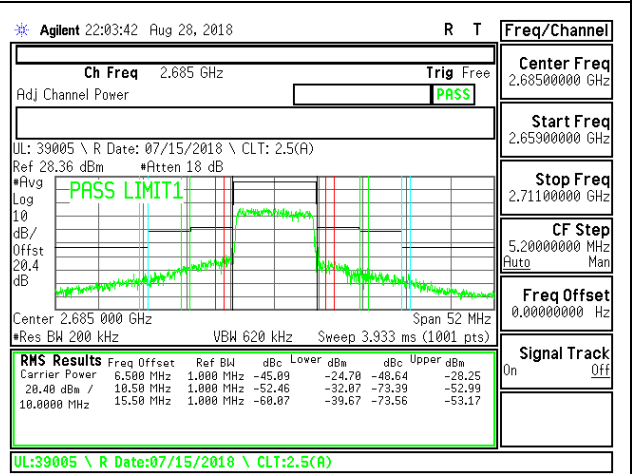
LTE B41 10MHz 16QAM Low Channel RB1-0



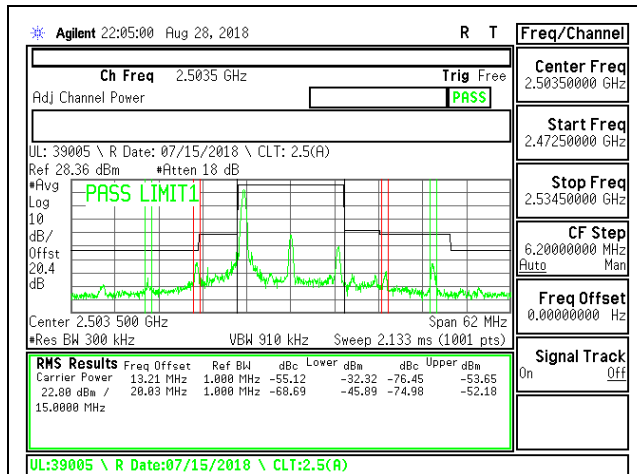
LTE B41 10MHz 16QAM High Channel RB1-0



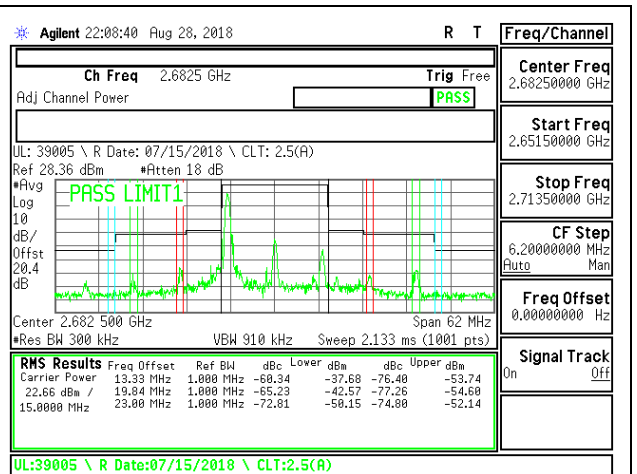
LTE B41 10MHz 16QAM Low Channel RB50-0



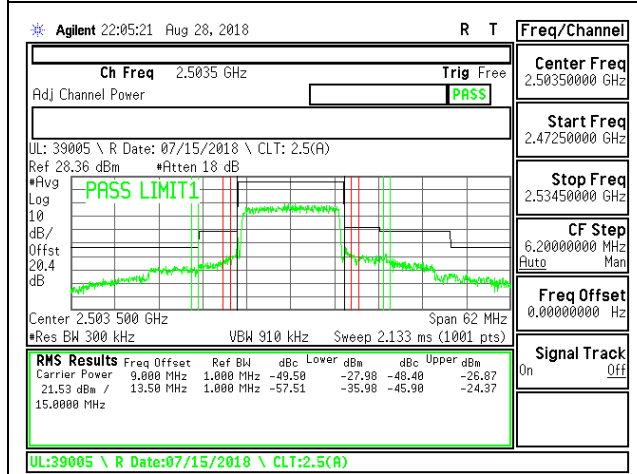
LTE B41 10MHz 16QAM High Channel RB50-0



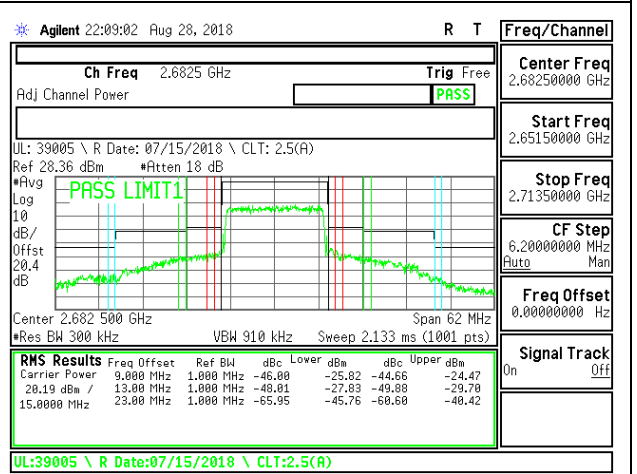
LTE B41 15MHz QPSK Low Channel RB1-0



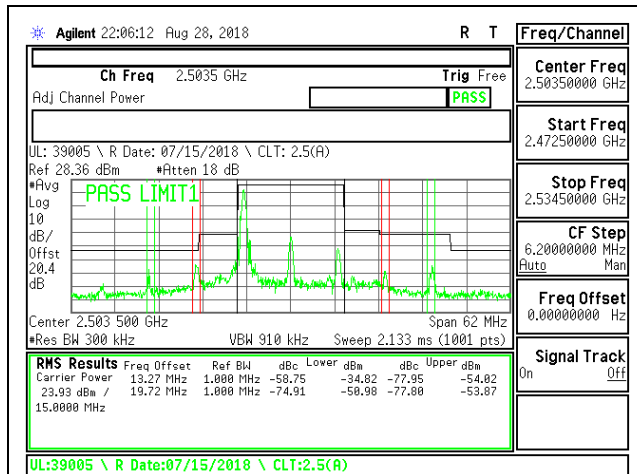
LTE B41 15MHz QPSK High Channel RB1-0



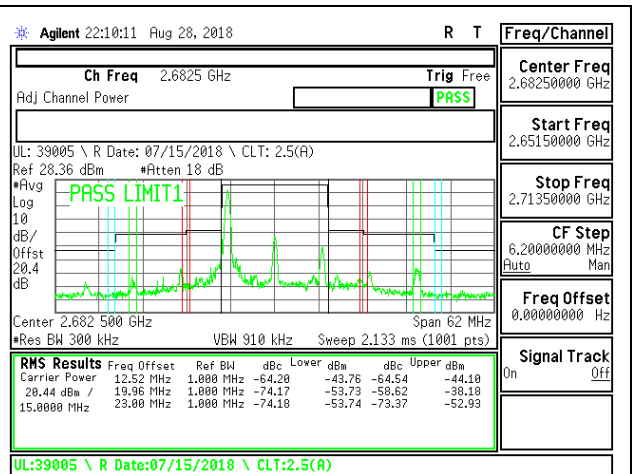
LTE B41 15MHz QPSK Low Channel RB75-0



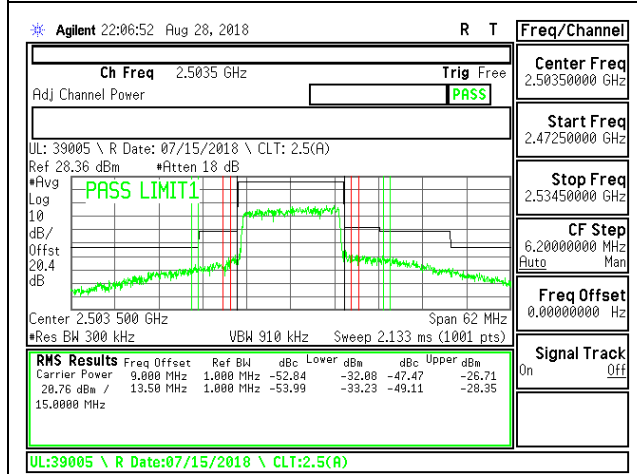
LTE B41 15MHz QPSK High Channel RB75-0



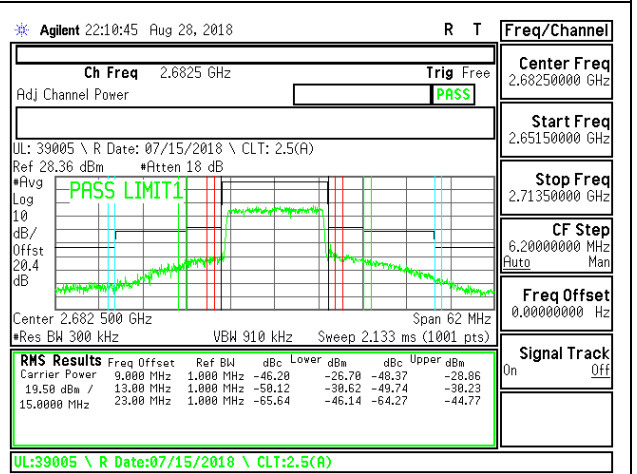
LTE B41 15MHz 16QAM Low Channel RB1-0



LTE B41 15MHz 16QAM High Channel RB1-0

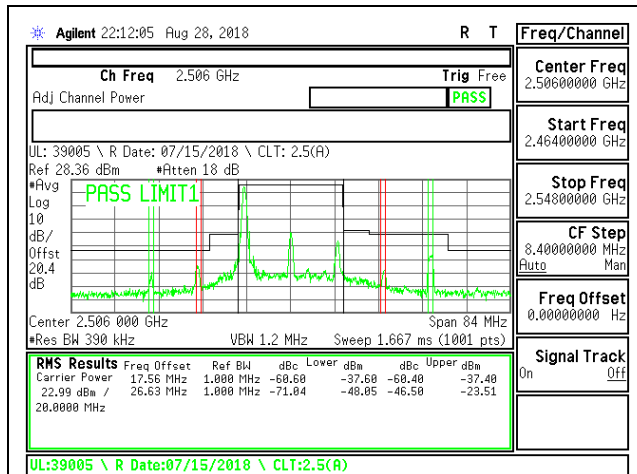


LTE B41 15MHz 16QAM Low Channel RB75-0

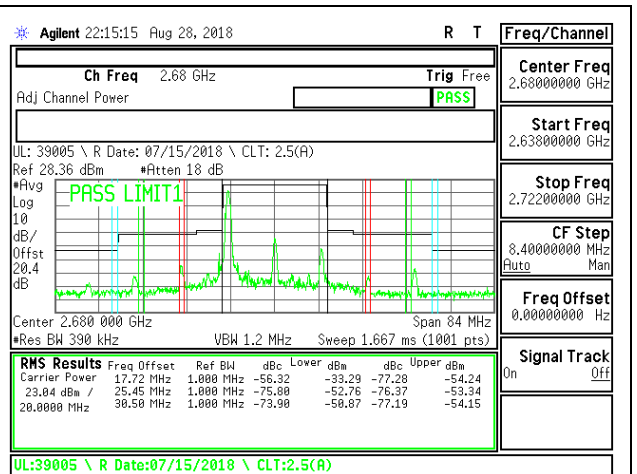


LTE B41 15MHz 16QAM High Channel RB75-0

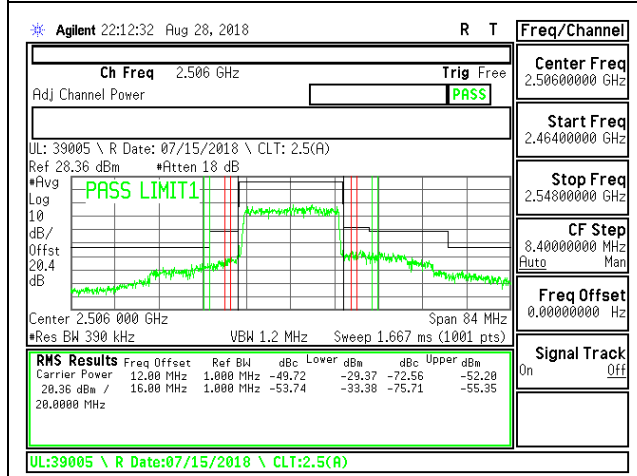




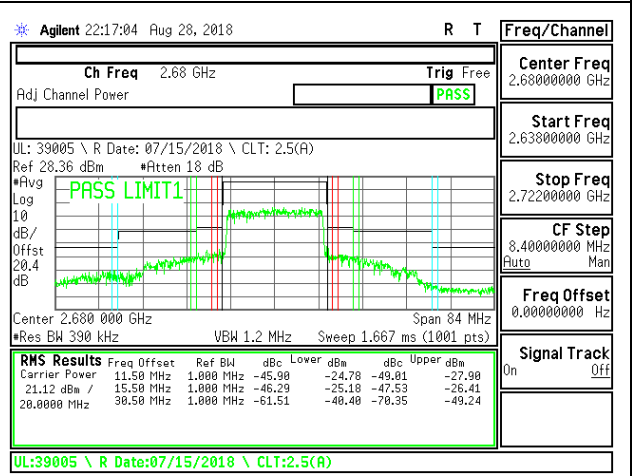
LTE B41 20MHz QPSK Low Channel RB1-0



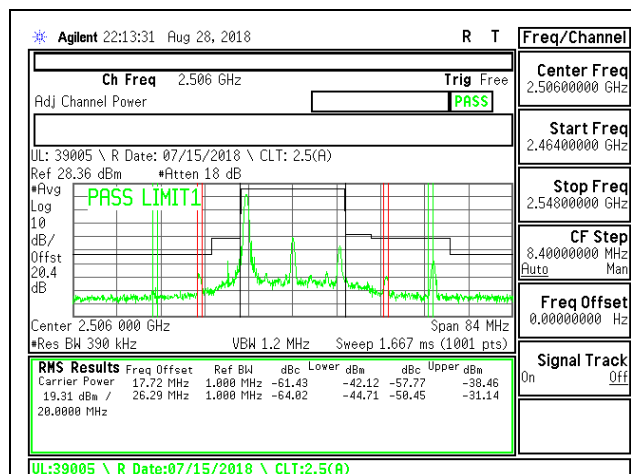
LTE B41 20MHz QPSK High Channel RB1-0



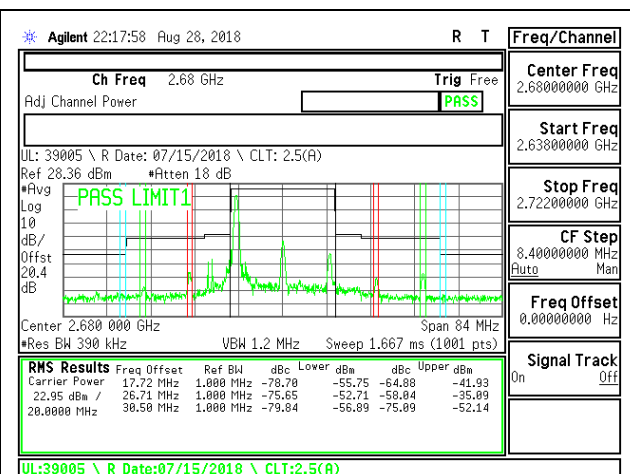
LTE B41 20MHz QPSK Low Channel RB100-0



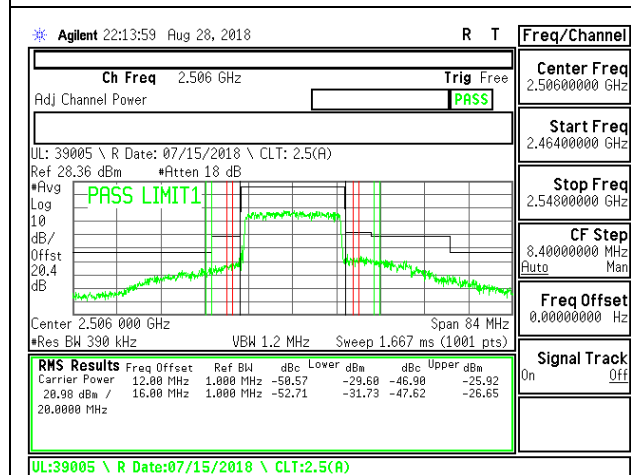
LTE B41 20MHz QPSK High Channel RB100-0



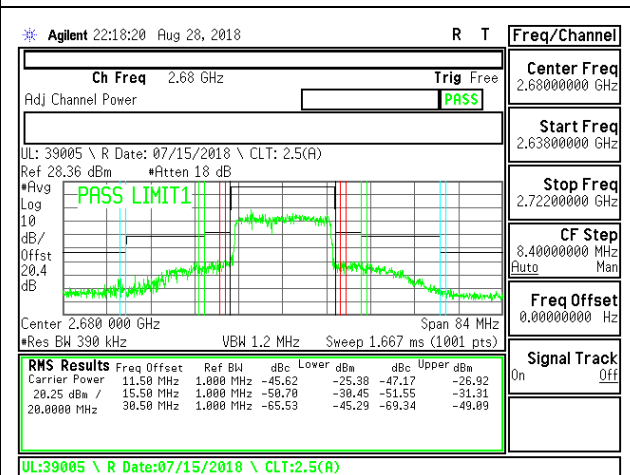
LTE B41 20MHz 16QAM Low Channel RB1-0



LTE B41 20MHz 16QAM High Channel RB1-0



LTE B41 20MHz 16QAM Low Channel RB100-0



LTE B41 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, §90.691

#### **LIMITS**

FCC: §22.917, §24.238, §27.53 (c), (g), (h), §90.691

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

FCC: §27.53 (m) (Band 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:

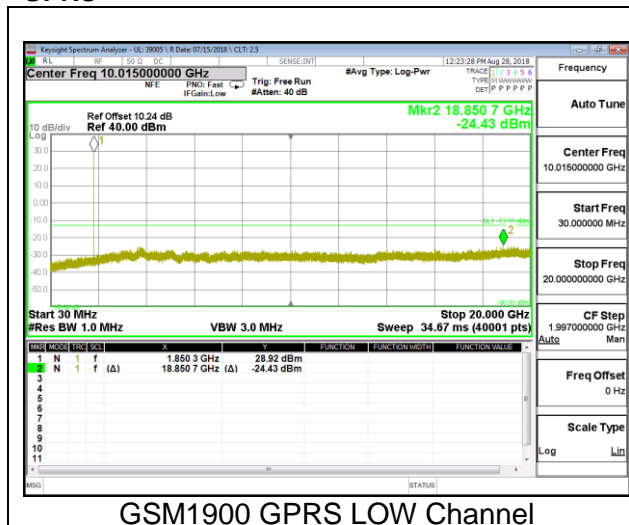
- Set display line at -13 dBm, -25dBm and -40dBm according to the band Limit
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz. (NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

#### **MODES TESTED**

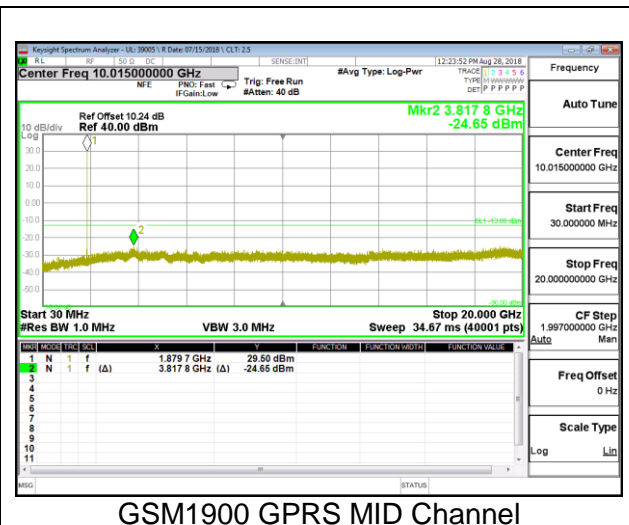
- GSM 1900
- WCDM Band 5
- WCDM Band 2
- WCDM Band 4
- LTE Band 4
- LTE Band 5
- LTE Band 17
- LTE Band 26
- LTE Band 41

#### **RESULTS**

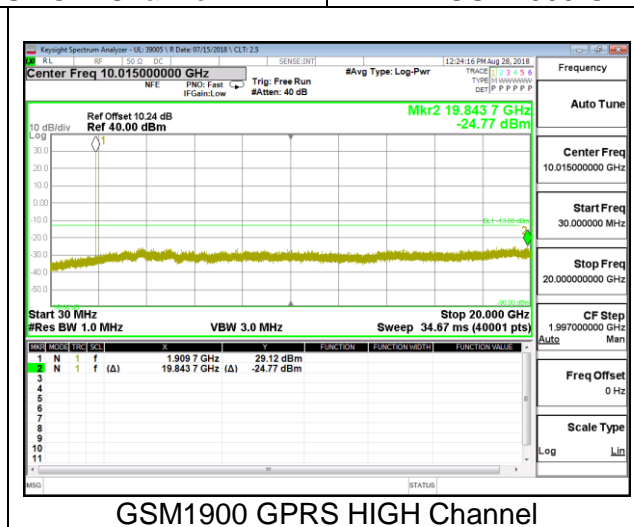
**8.3.1. GSM GSM1900  
 GPRS**



GSM1900 GPRS LOW Channel

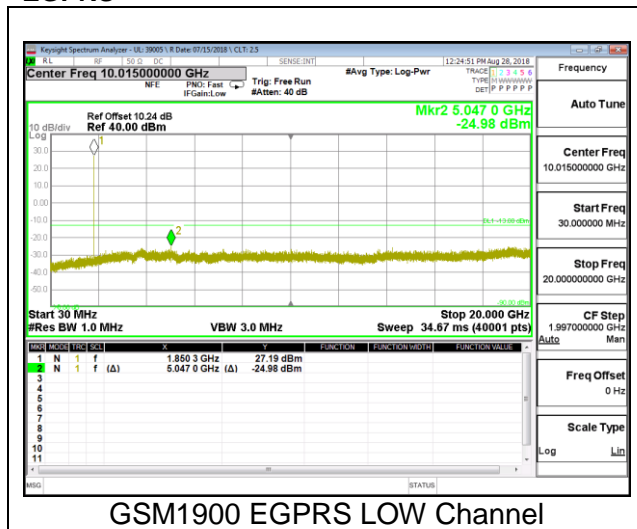


GSM1900 GPRS MID Channel

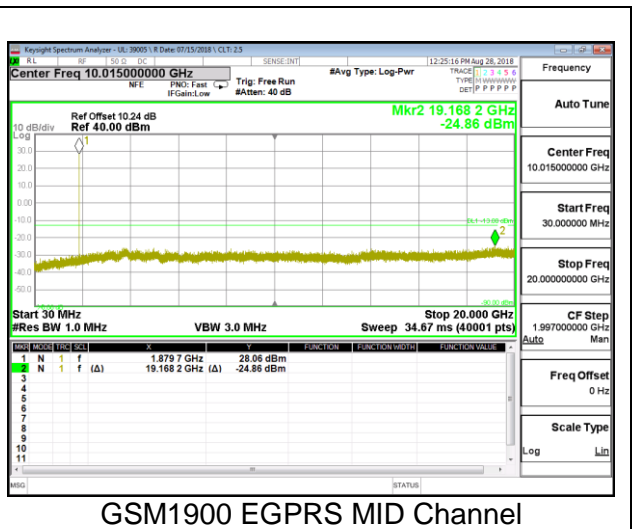


GSM1900 GPRS HIGH Channel

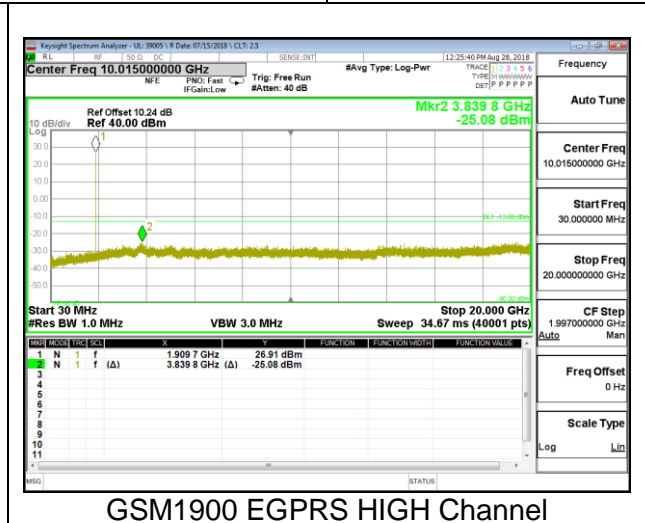
**EGPRS**



GSM1900 EGPRS LOW Channel

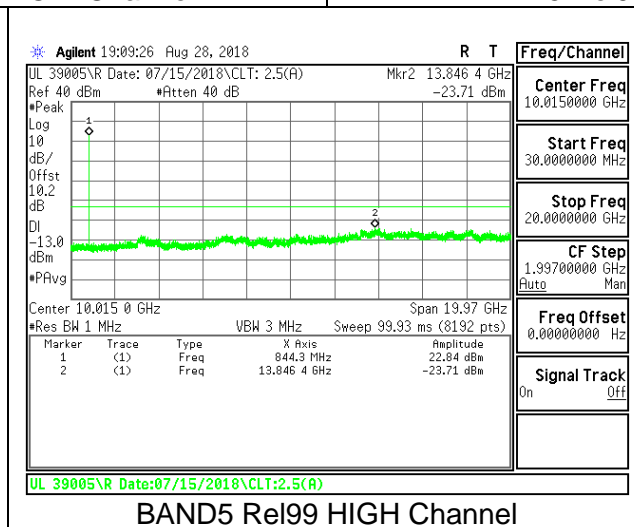
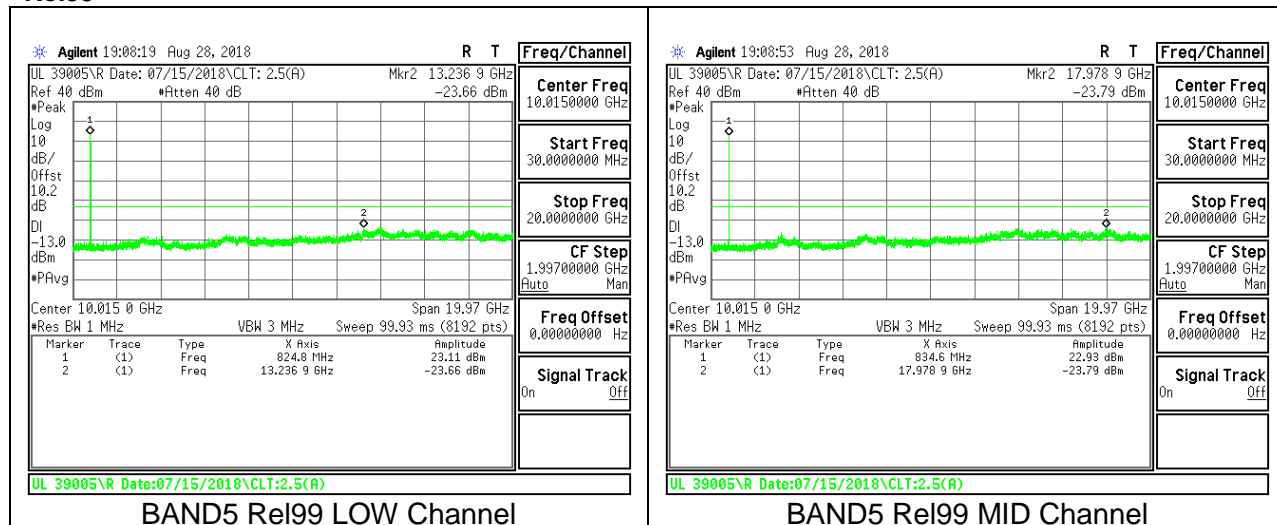


GSM1900 EGPRS MID Channel

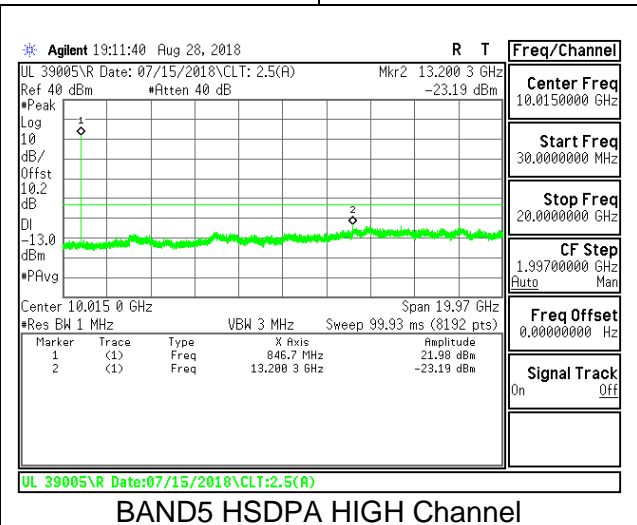
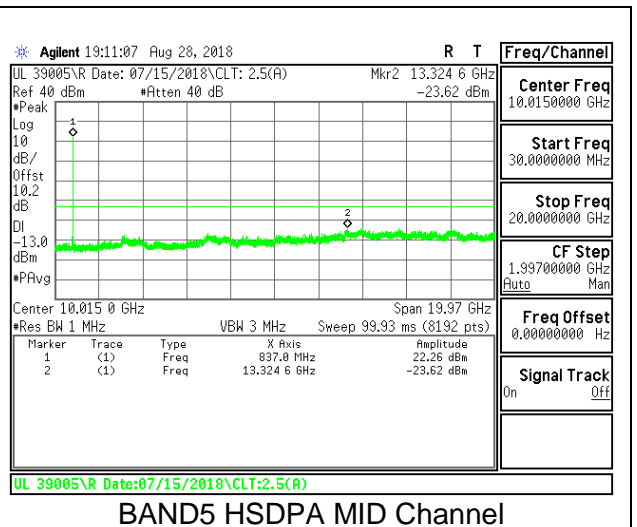
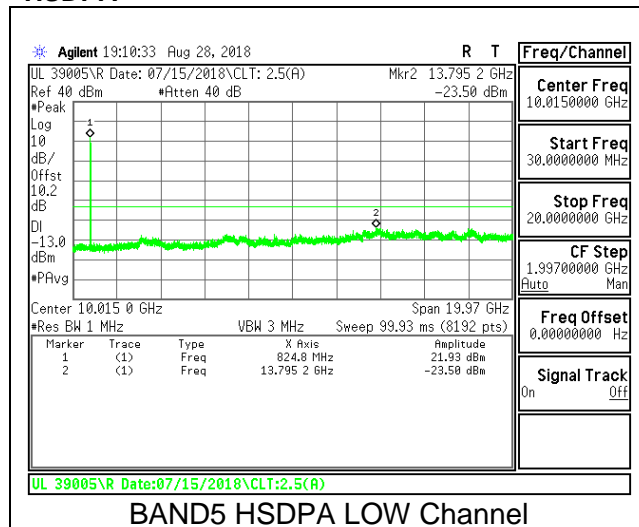


GSM1900 EGPRS HIGH Channel

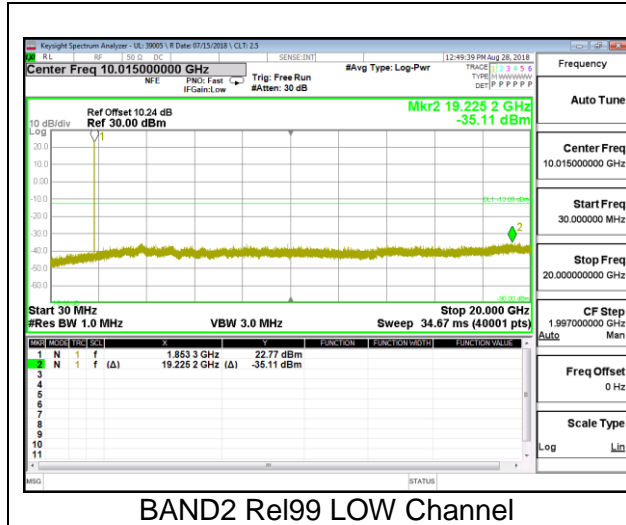
**8.3.2. WCDMA BAND5**  
**Rel99**



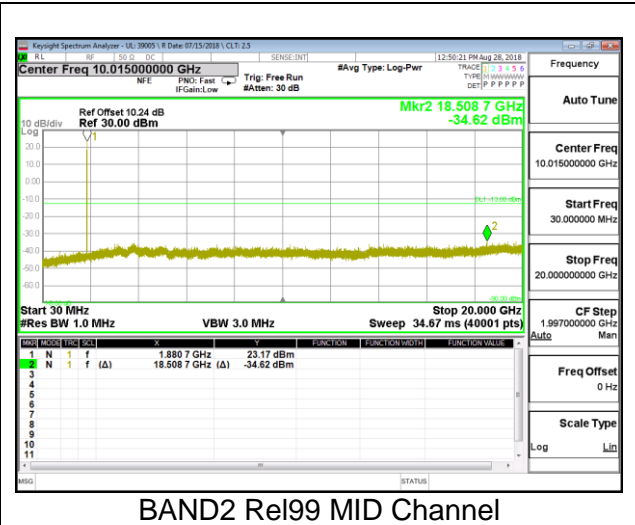
**HSDPA**



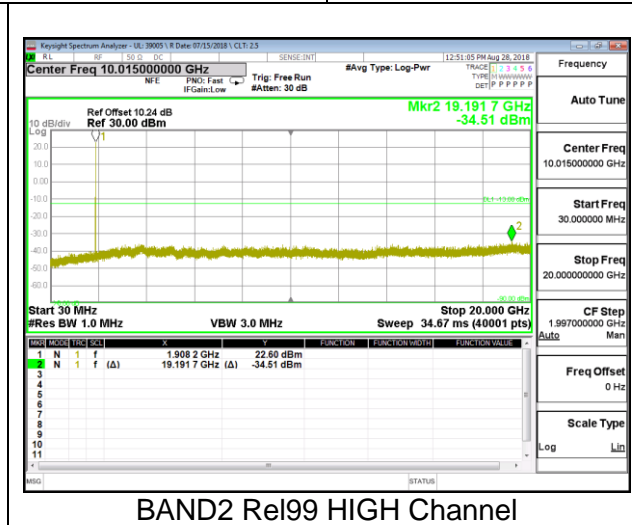
**8.3.3. WCDMA BAND2  
 Rel99**



BAND2 Rel99 LOW Channel



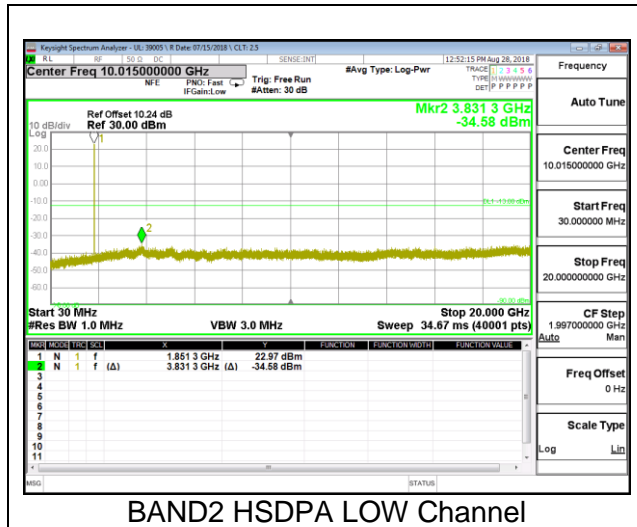
BAND2 Rel99 MID Channel



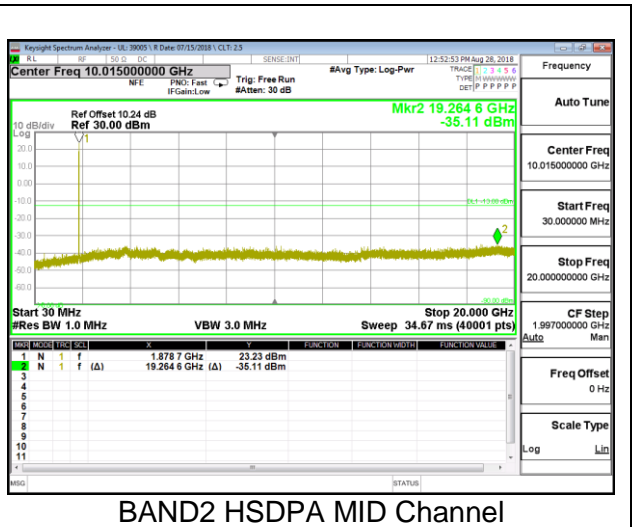
BAND2 Rel99 HIGH Channel



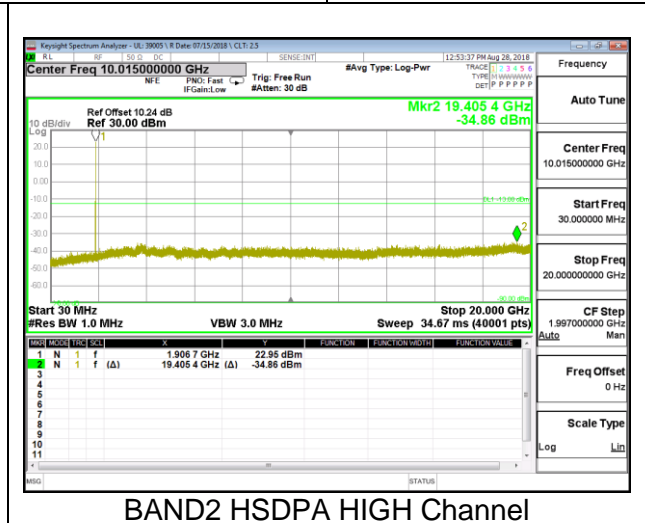
**HSDPA**



**BAND2 HSDPA LOW Channel**

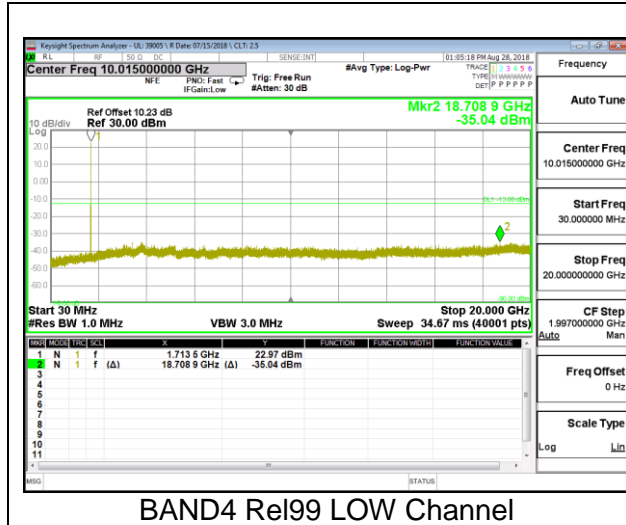


**BAND2 HSDPA MID Channel**

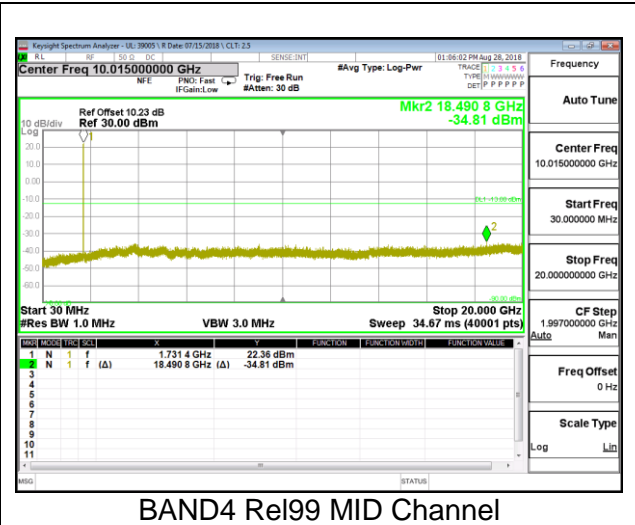


**BAND2 HSDPA HIGH Channel**

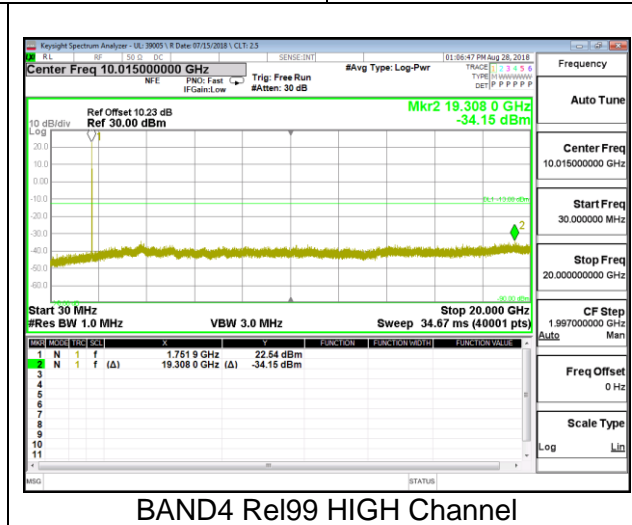
**8.3.4. WCDMA BAND4  
 Rel99**



BAND4 Rel99 LOW Channel

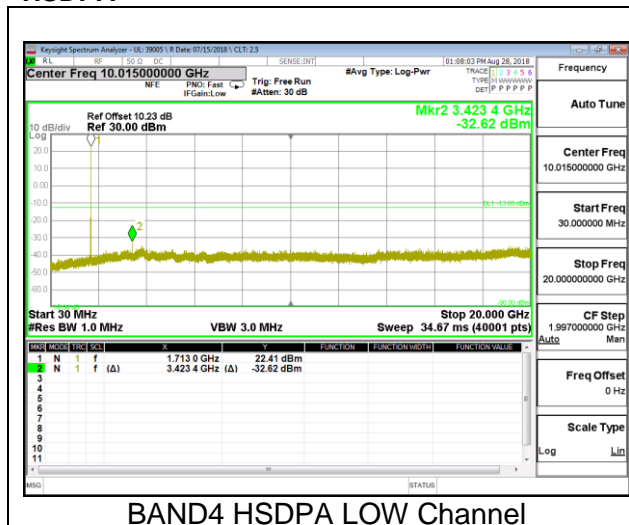


BAND4 Rel99 MID Channel

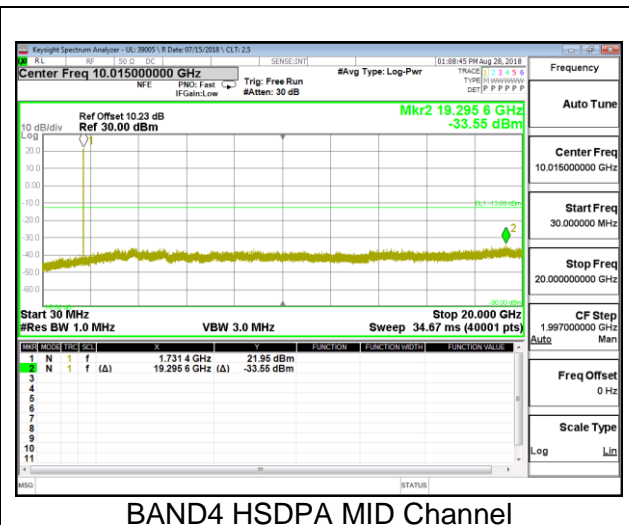


BAND4 Rel99 HIGH Channel

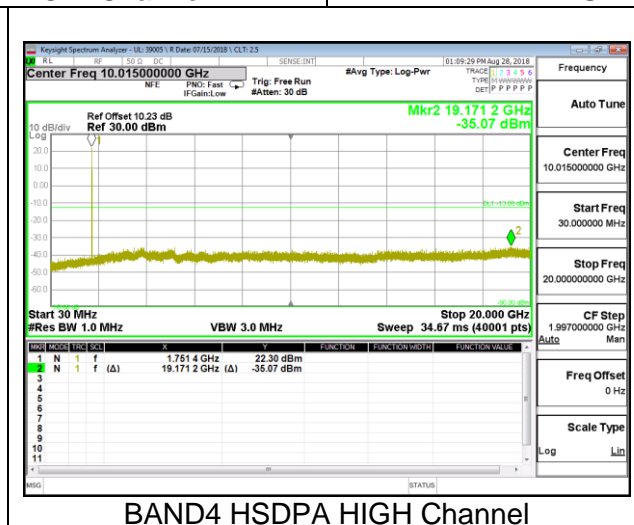
**HSDPA**



**BAND4 HSDPA LOW Channel**

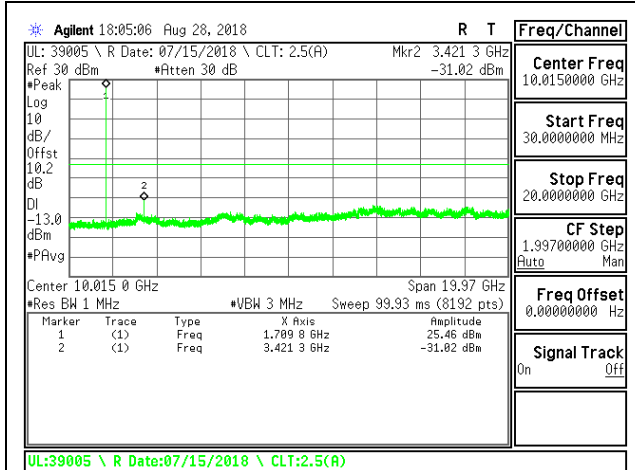


**BAND4 HSDPA MID Channel**

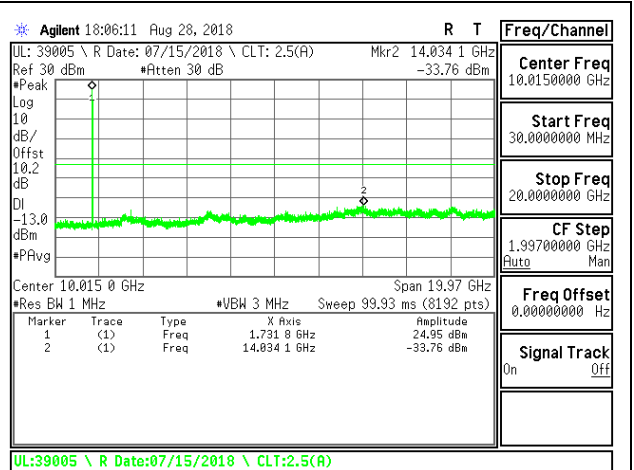


**BAND4 HSDPA HIGH Channel**

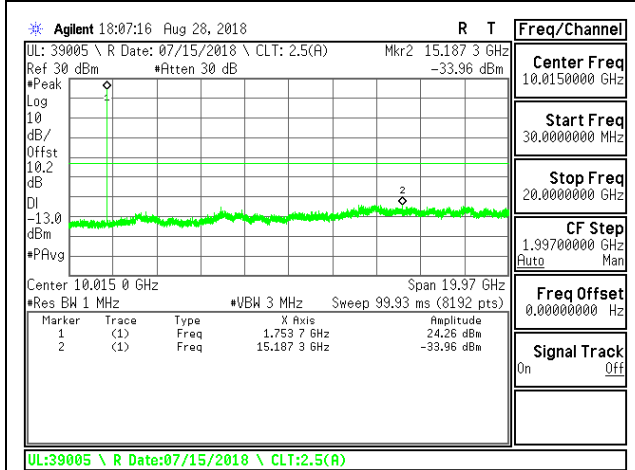
8.3.5. LTE BAND 4



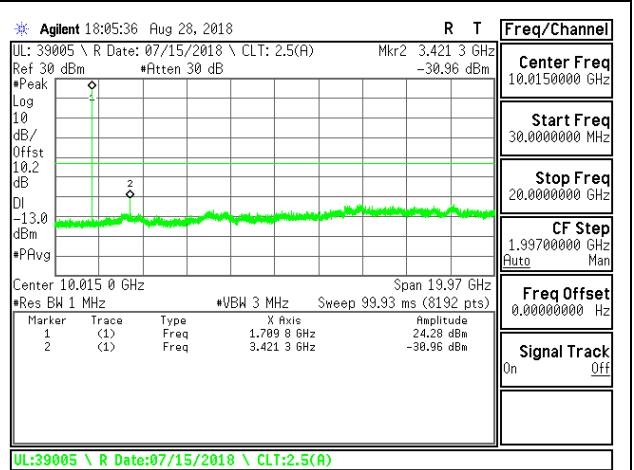
LTE B4 1.4MHz QPSK Low Channel RB1-0



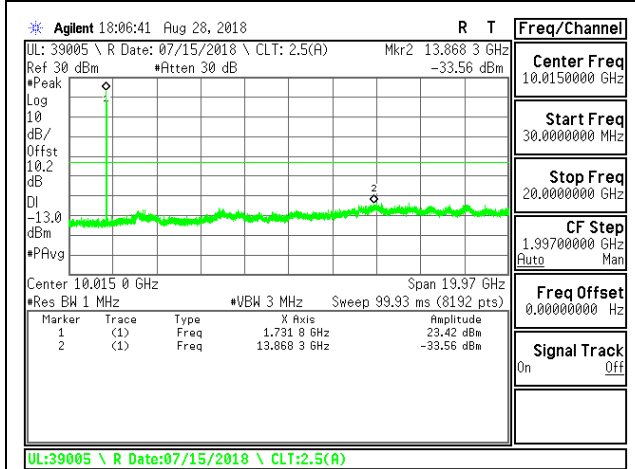
LTE B4 1.4MHz QPSK Mid Channel RB1-0



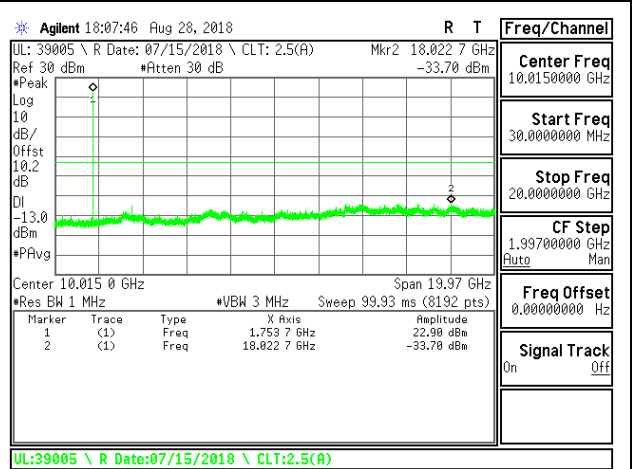
LTE B4 1.4MHz QPSK High Channel RB1-0



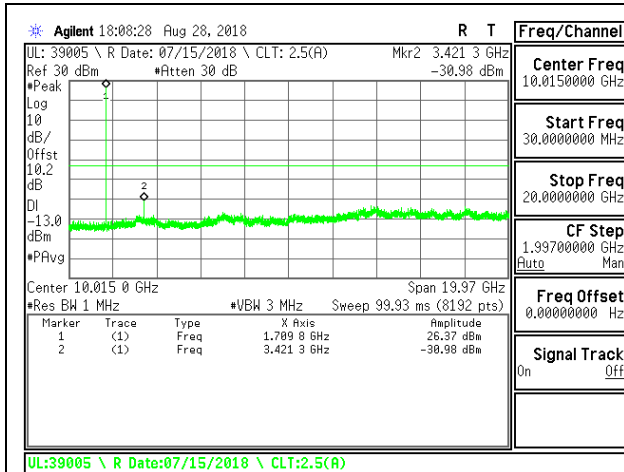
LTE B4 1.4MHz 16QAM Low Channel RB1-0



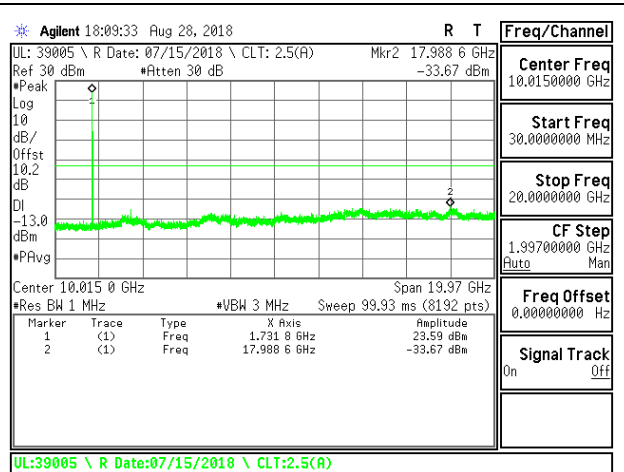
LTE B4 1.4MHz 16QAM Mid Channel RB1-0



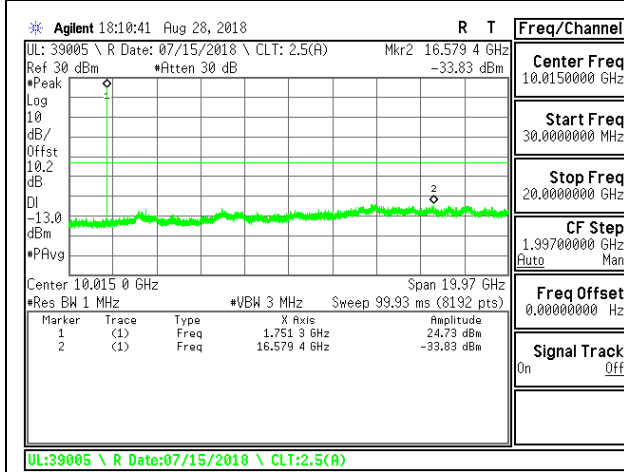
LTE B4 1.4MHz 16QAM High Channel RB1-0



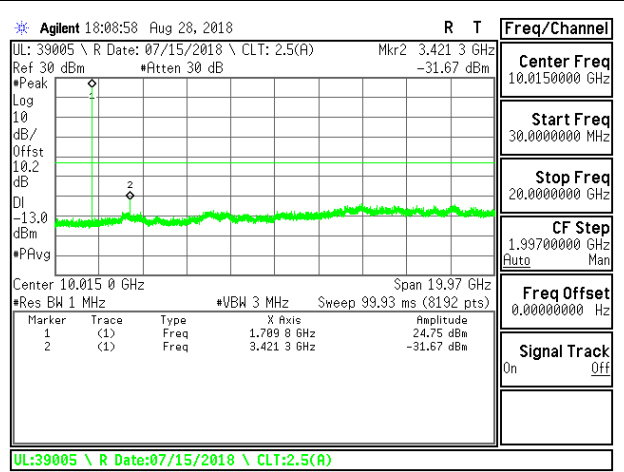
LTE B4 3MHz QPSK Low Channel RB1-0



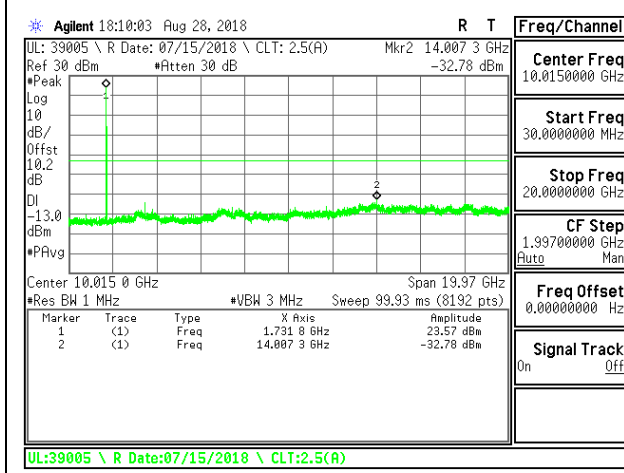
LTE B4 3MHz QPSK Mid Channel RB1-0



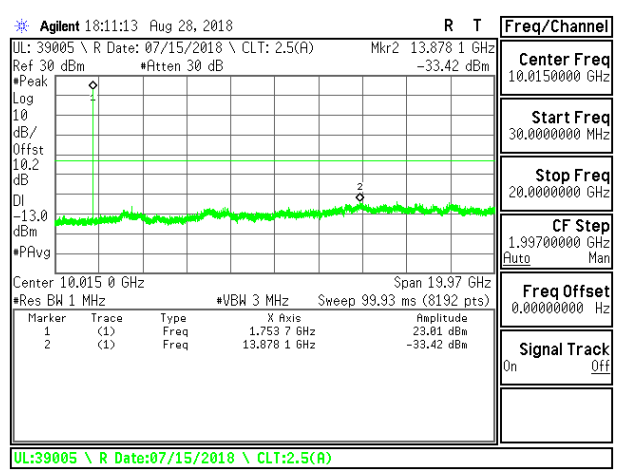
LTE B4 3MHz QPSK High Channel RB1-0



LTE B4 3MHz 16QAM Low Channel RB1-0



LTE B4 3MHz 16QAM Mid Channel RB1-0



LTE B4 3MHz 16QAM High Channel RB1-0