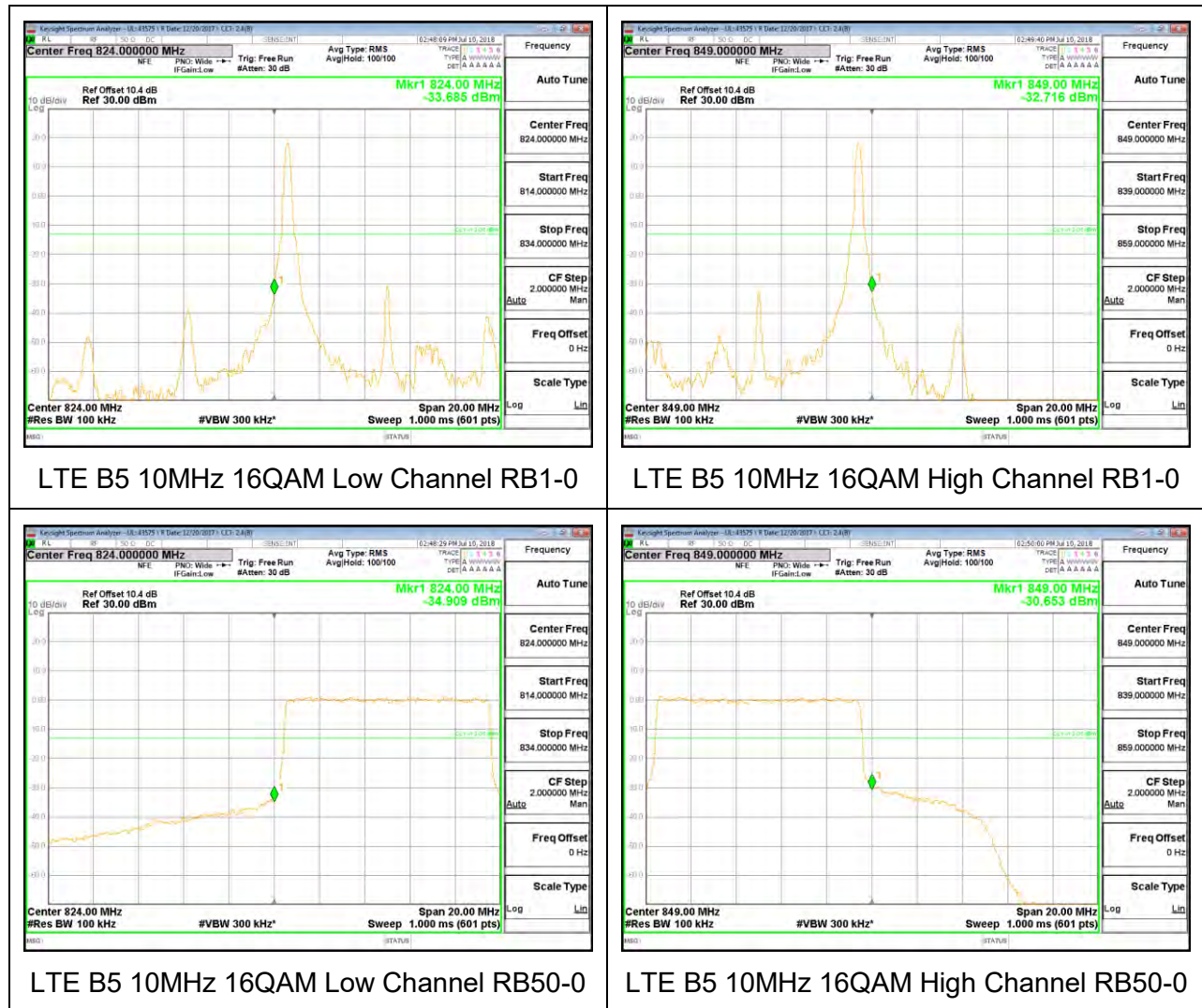
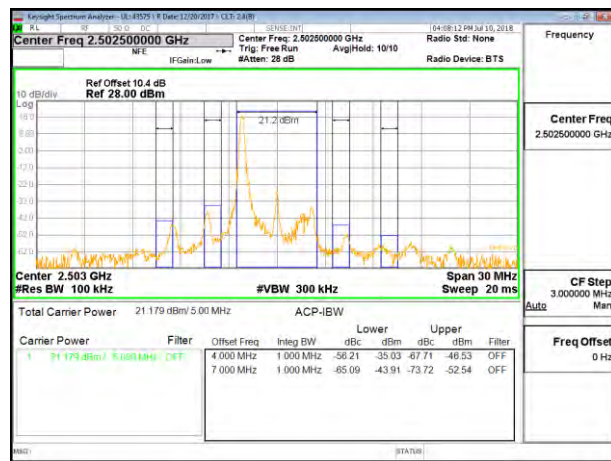
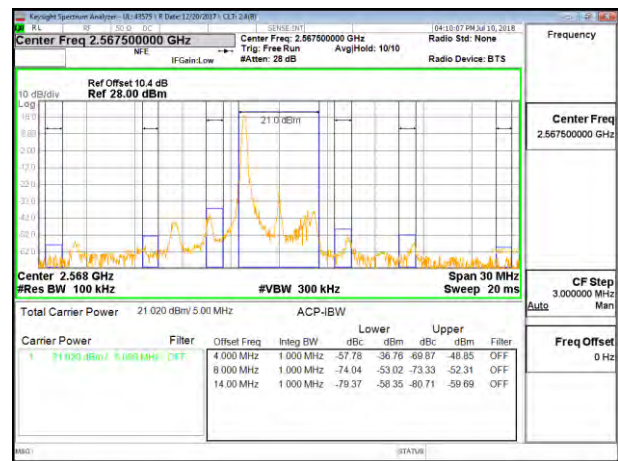




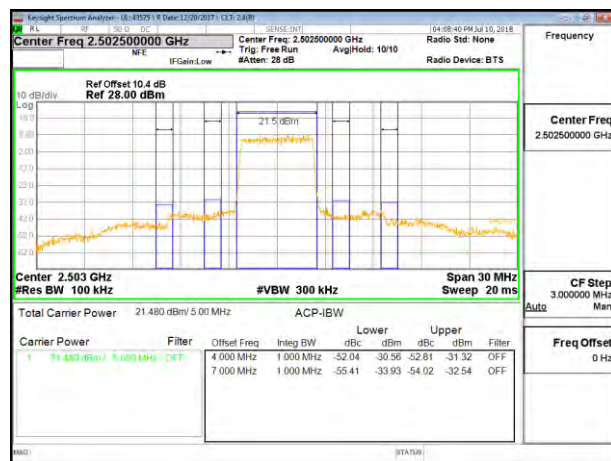
## 8.2.6. LTE BAND 7 ADJACENT CHANNEL POWER



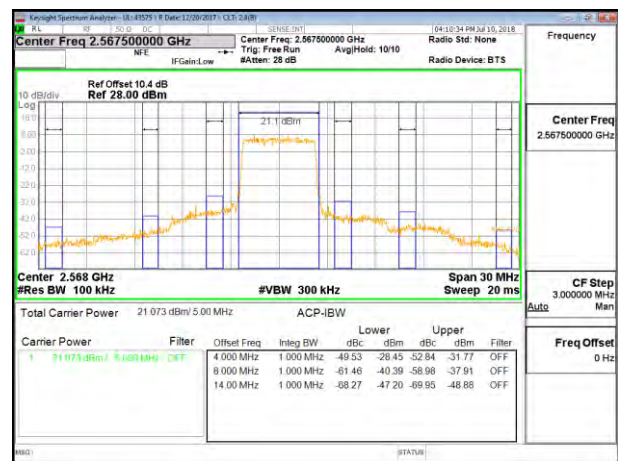
LTE B7 5MHz QPSK Low Channel RB1-0



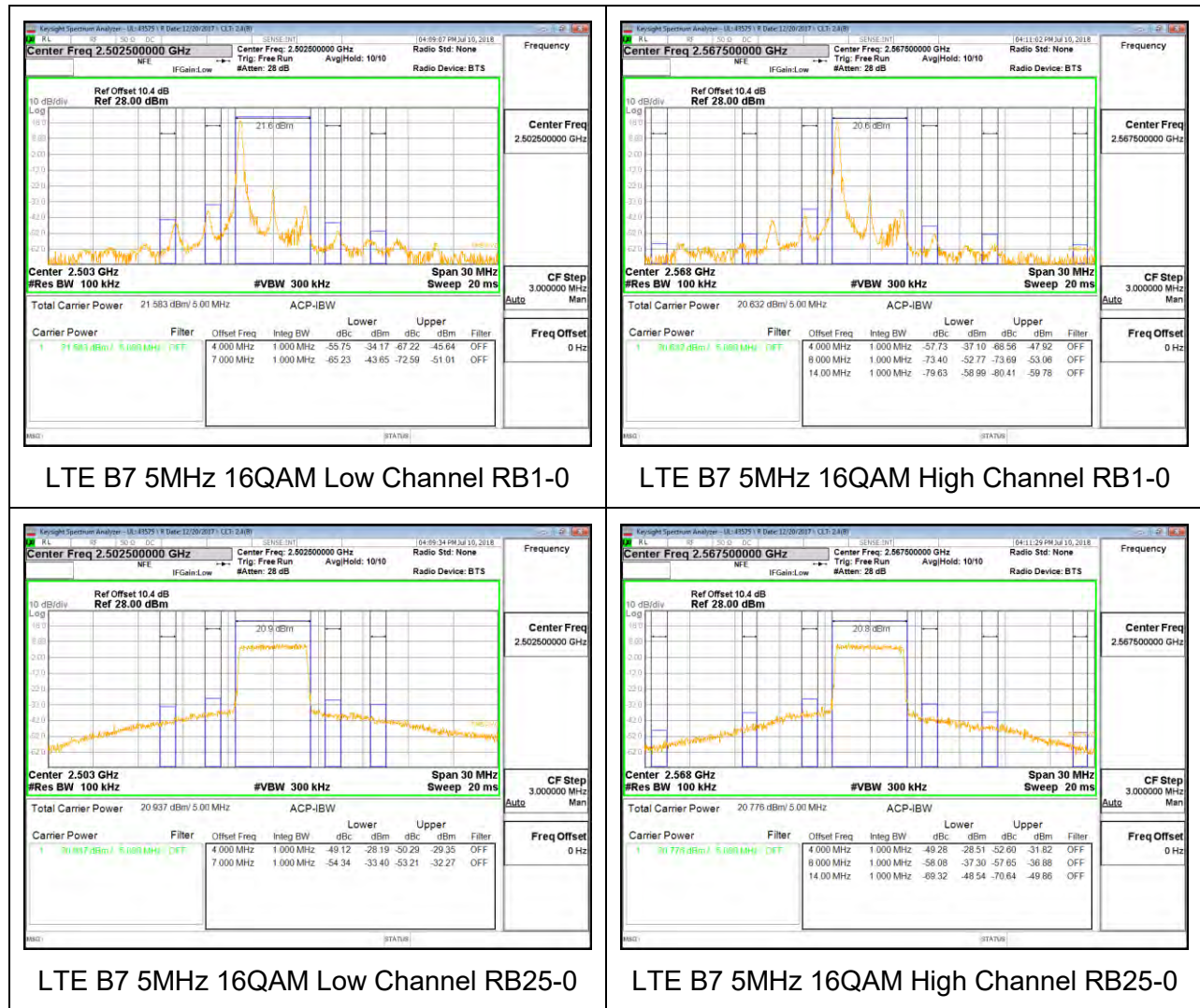
LTE B7 5MHz QPSK High Channel RB1-0



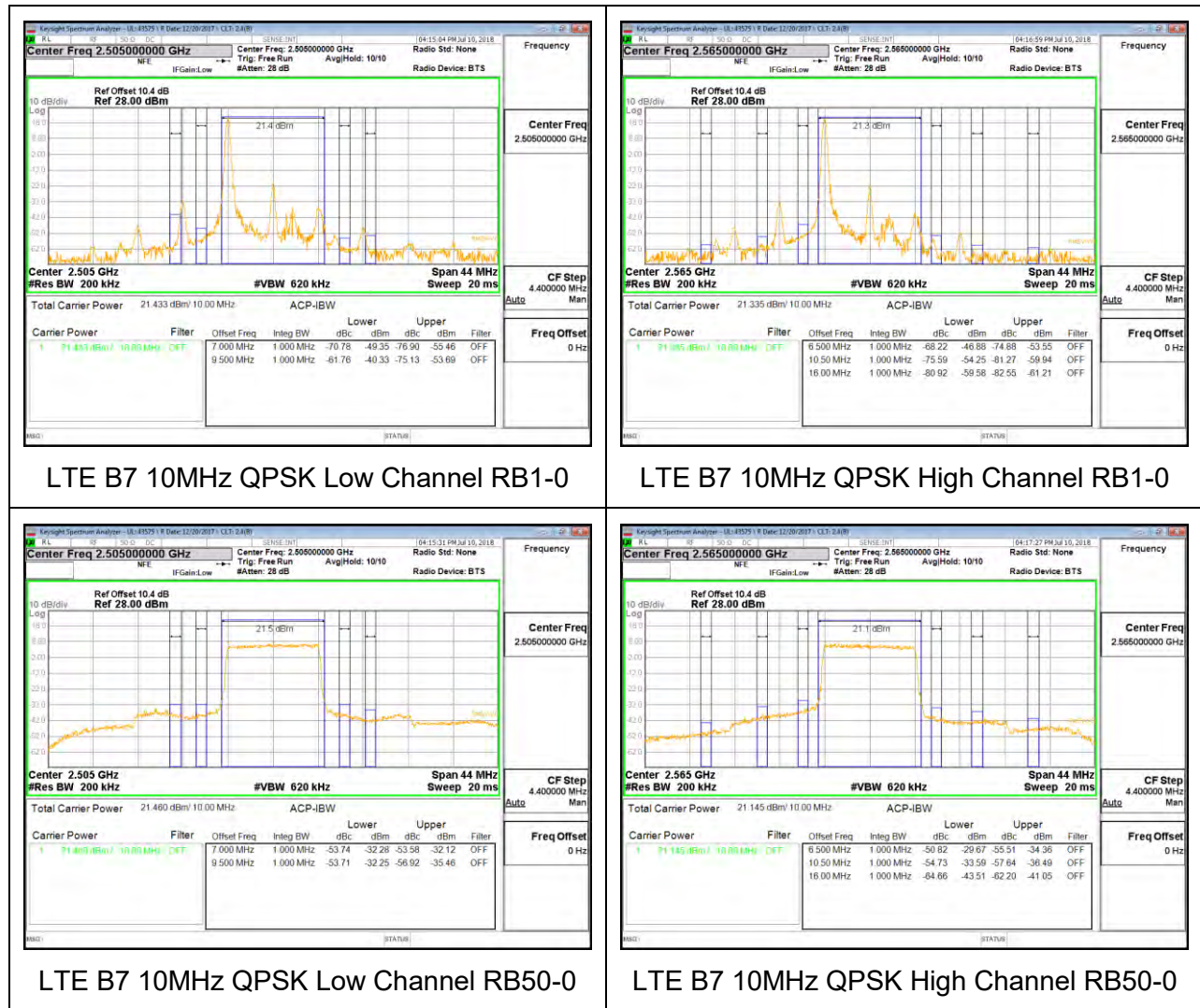
LTE B7 5MHz QPSK Low Channel RB25-0

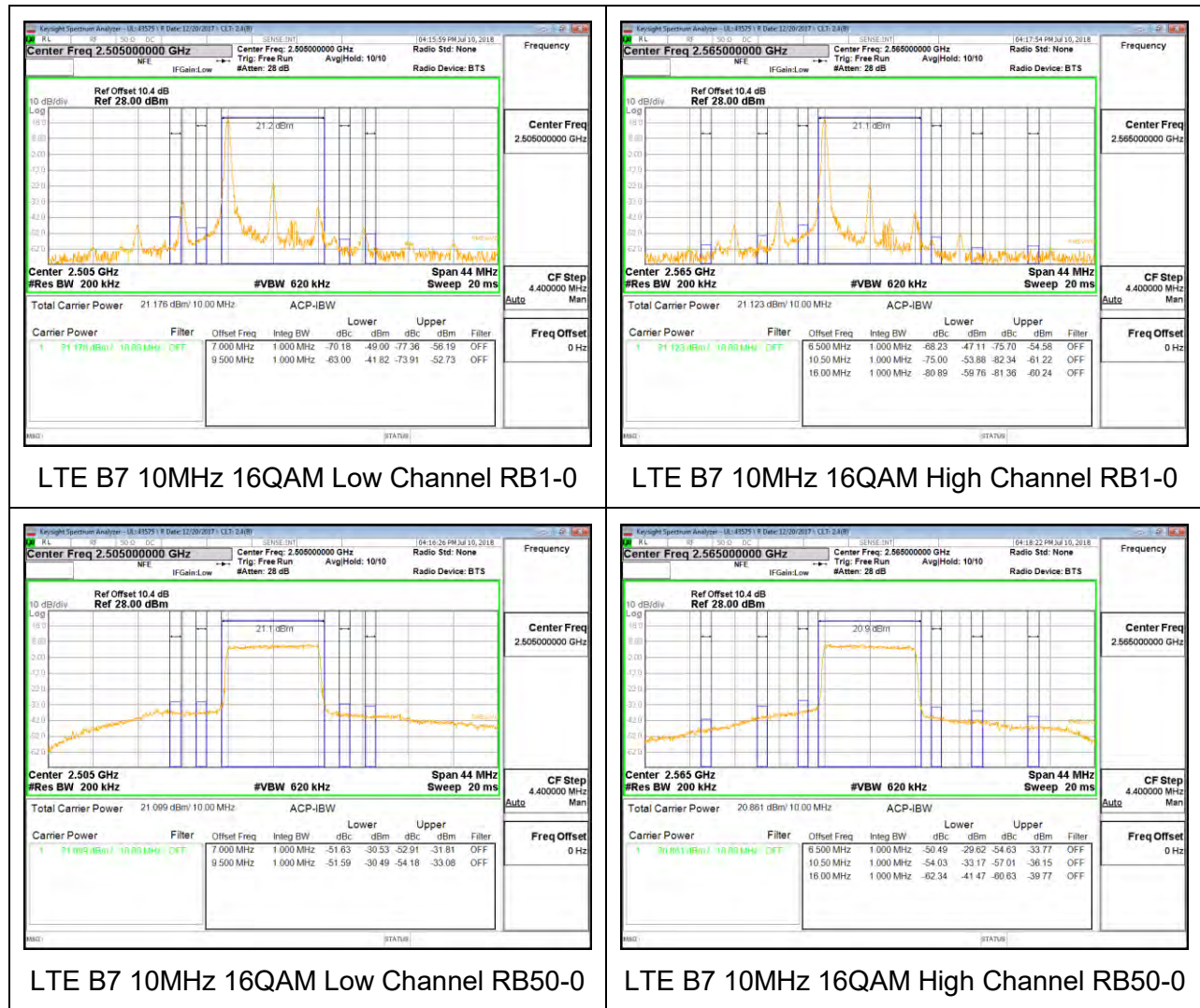


LTE B7 5MHz QPSK High Channel RB25-0







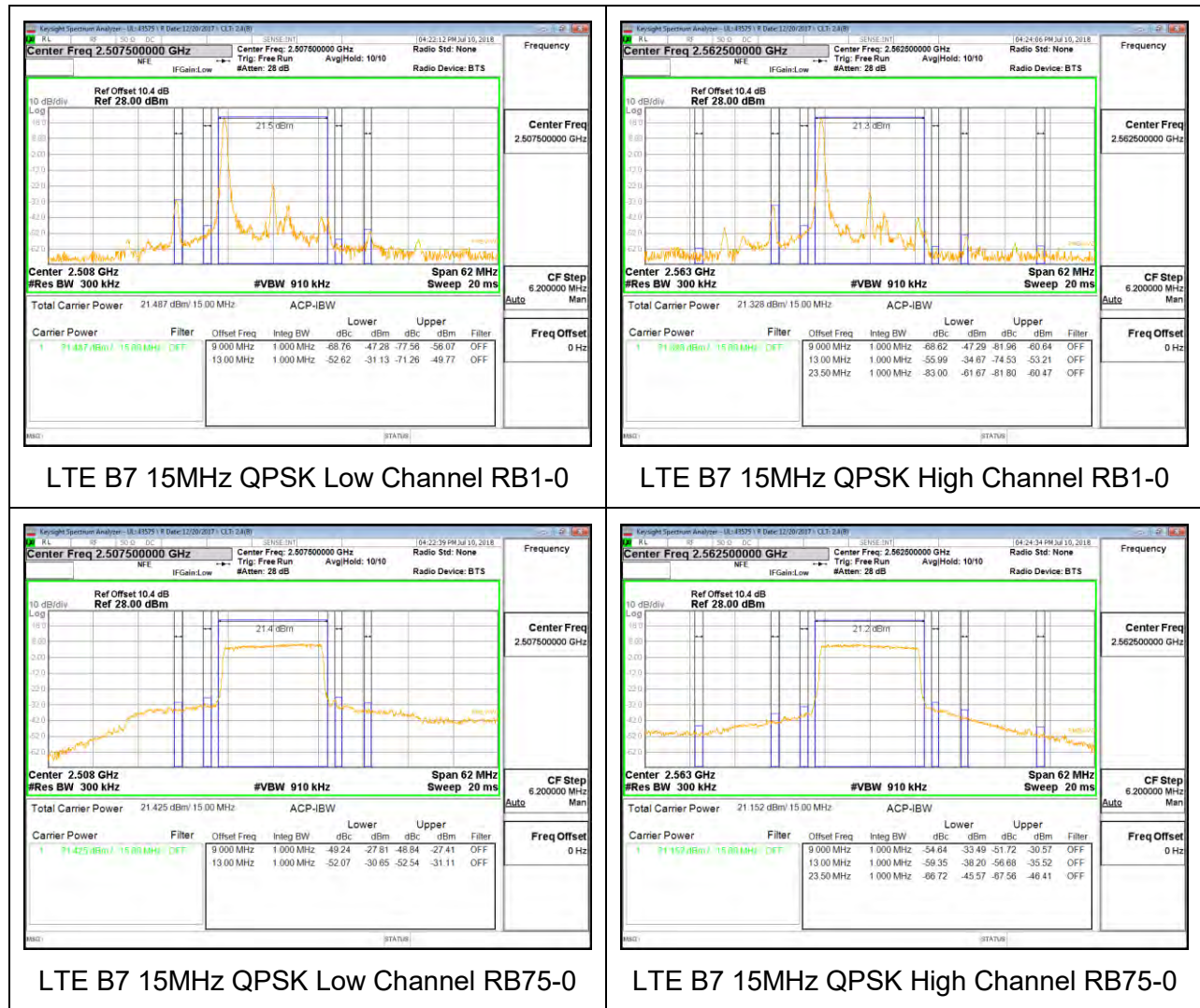


LTE B7 10MHz 16QAM Low Channel RB1-0

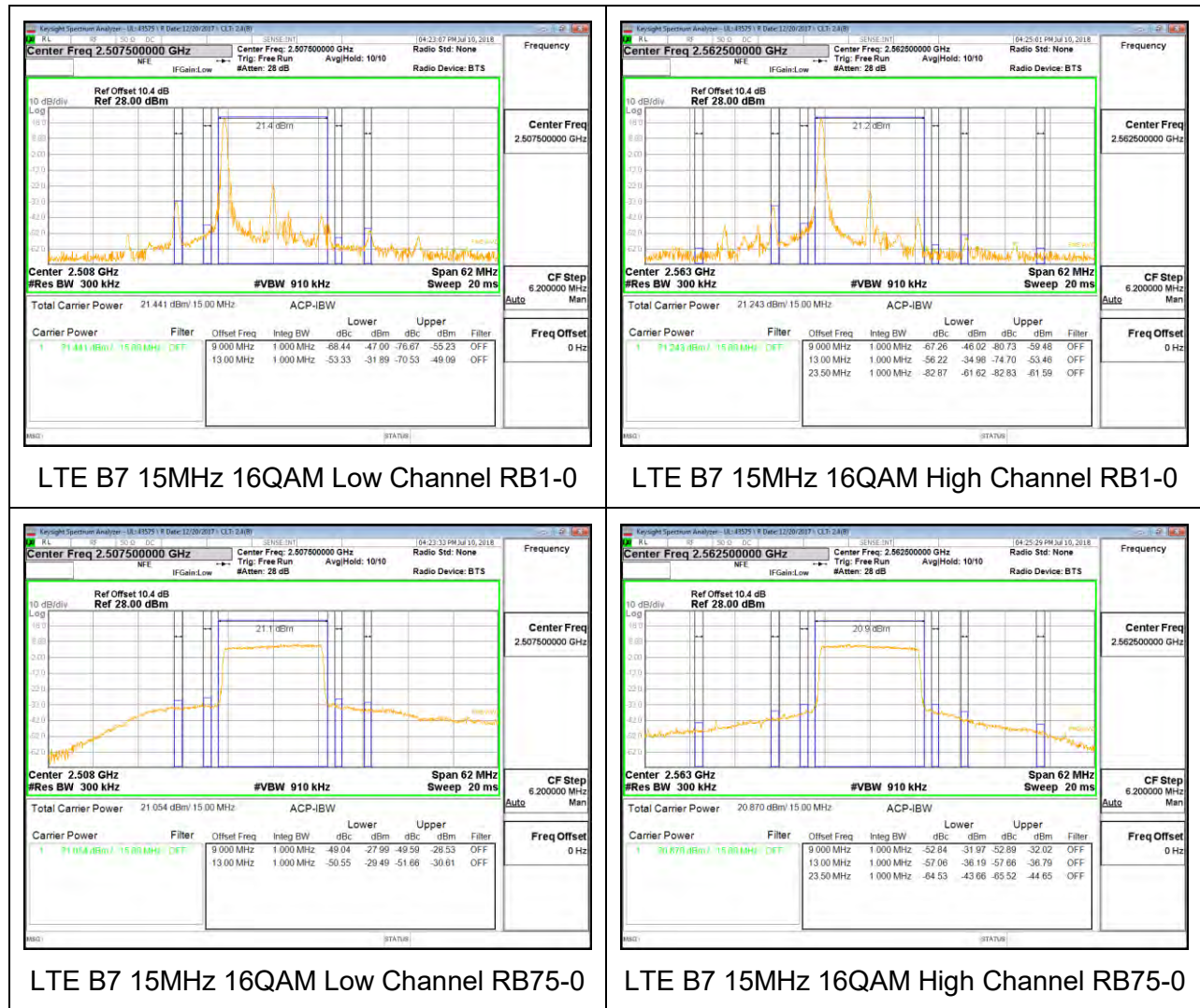
LTE B7 10MHz 16QAM High Channel RB1-0

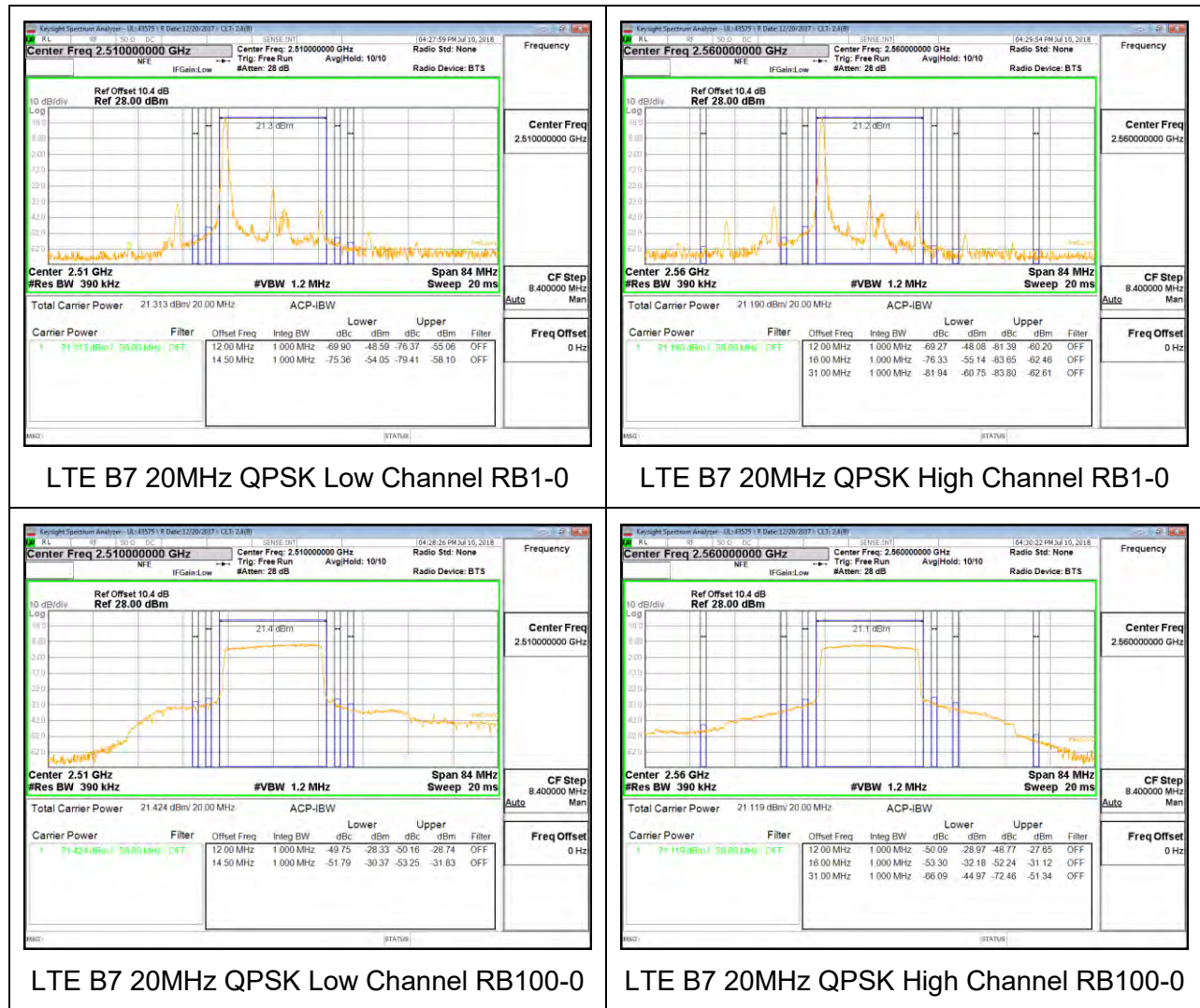
LTE B7 10MHz 16QAM Low Channel RB50-0

LTE B7 10MHz 16QAM High Channel RB50-0

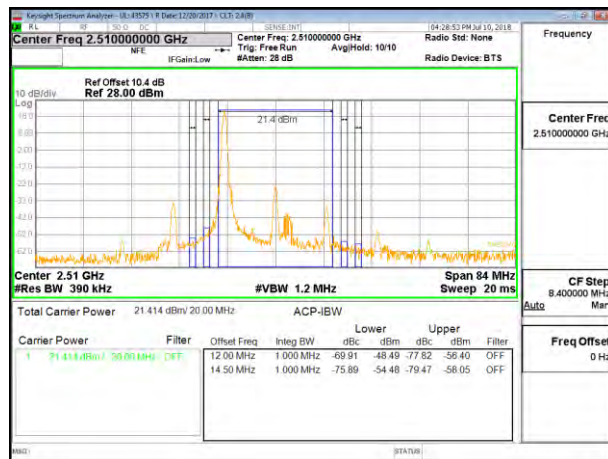




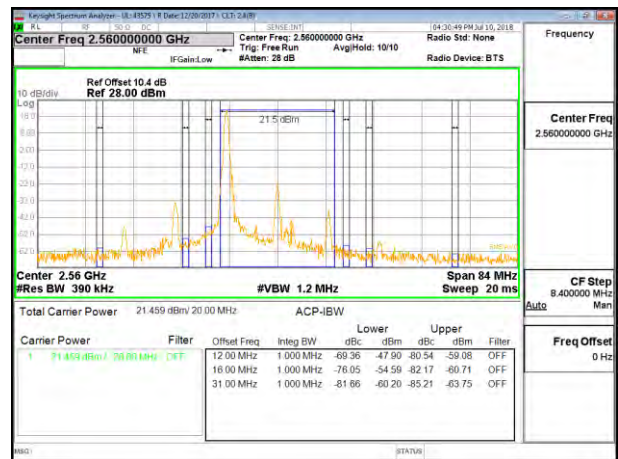




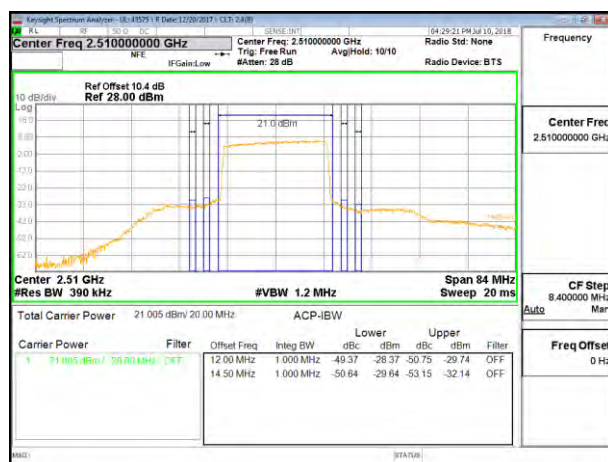




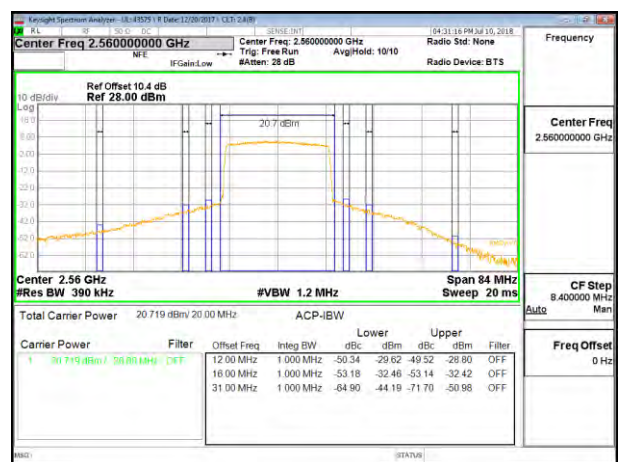
LTE B7 20MHz 16QAM Low Channel RB1-0



LTE B7 20MHz 16QAM High Channel RB1-0

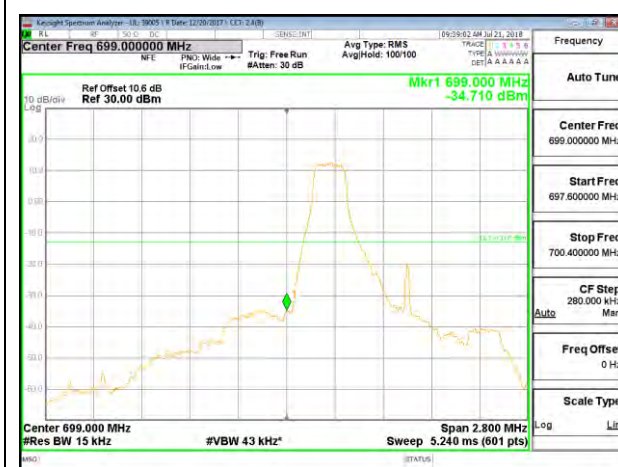


LTE B7 20MHz 16QAM Low Channel RB100-0



LTE B7 20MHz 16QAM High Channel RB100-0

## 8.2.7. LTE BAND 12 BANDEDGE



LTE B12 1.4MHz QPSK Low Channel RB1-0



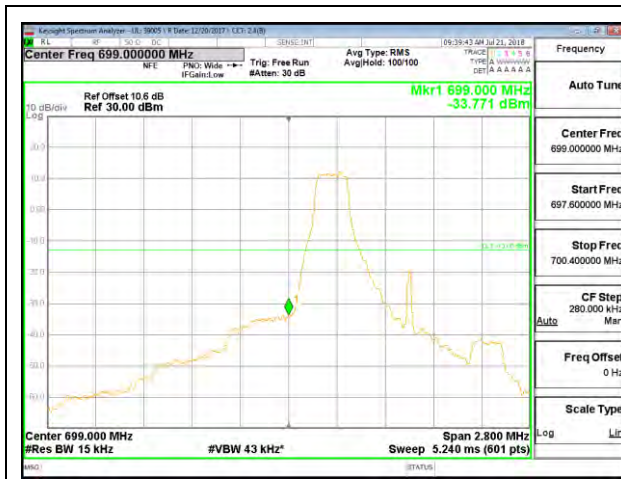
LTE B12 1.4MHz QPSK High Channel RB1-0



LTE B12 1.4MHz QPSK Low Channel RB6-0



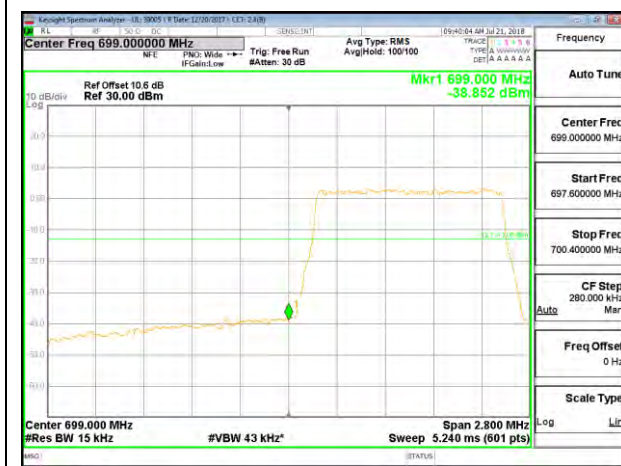
LTE B12 1.4MHz QPSK High Channel RB6-0



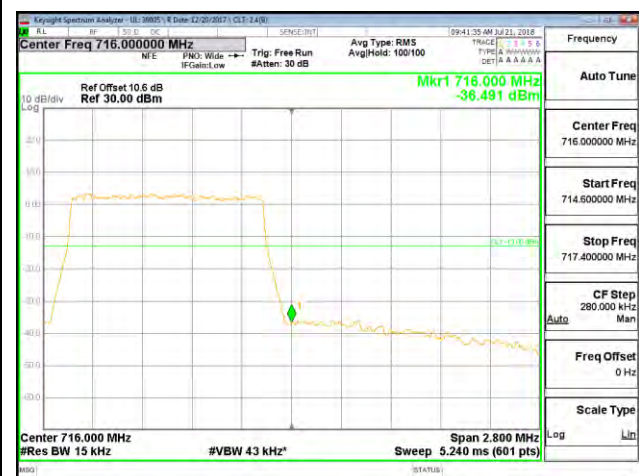
LTE B12 1.4MHz 16QAM Low Channel RB1-0



LTE B12 1.4MHz 16QAM High Channel RB1-0

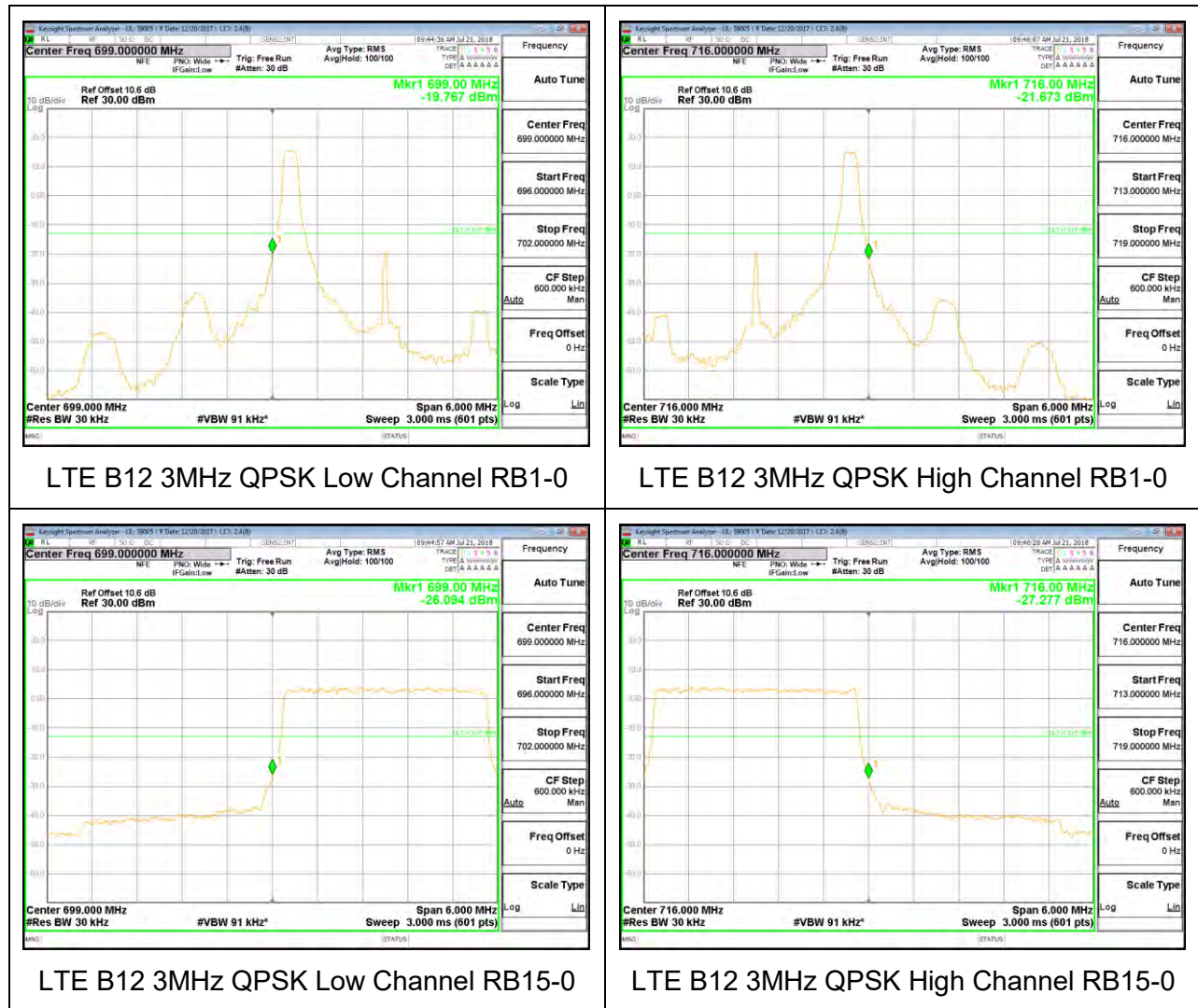


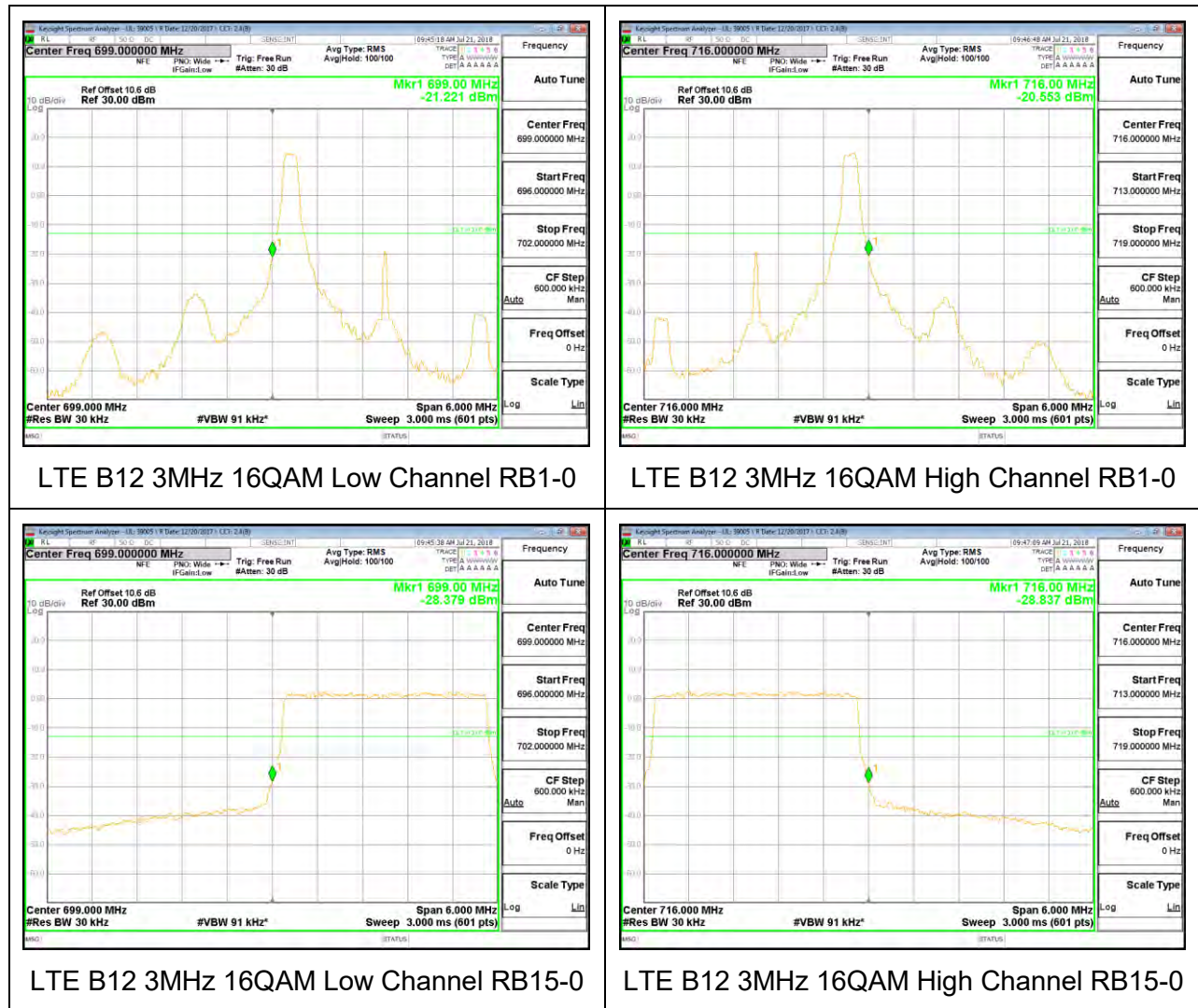
LTE B12 1.4MHz 16QAM Low Channel RB6-0

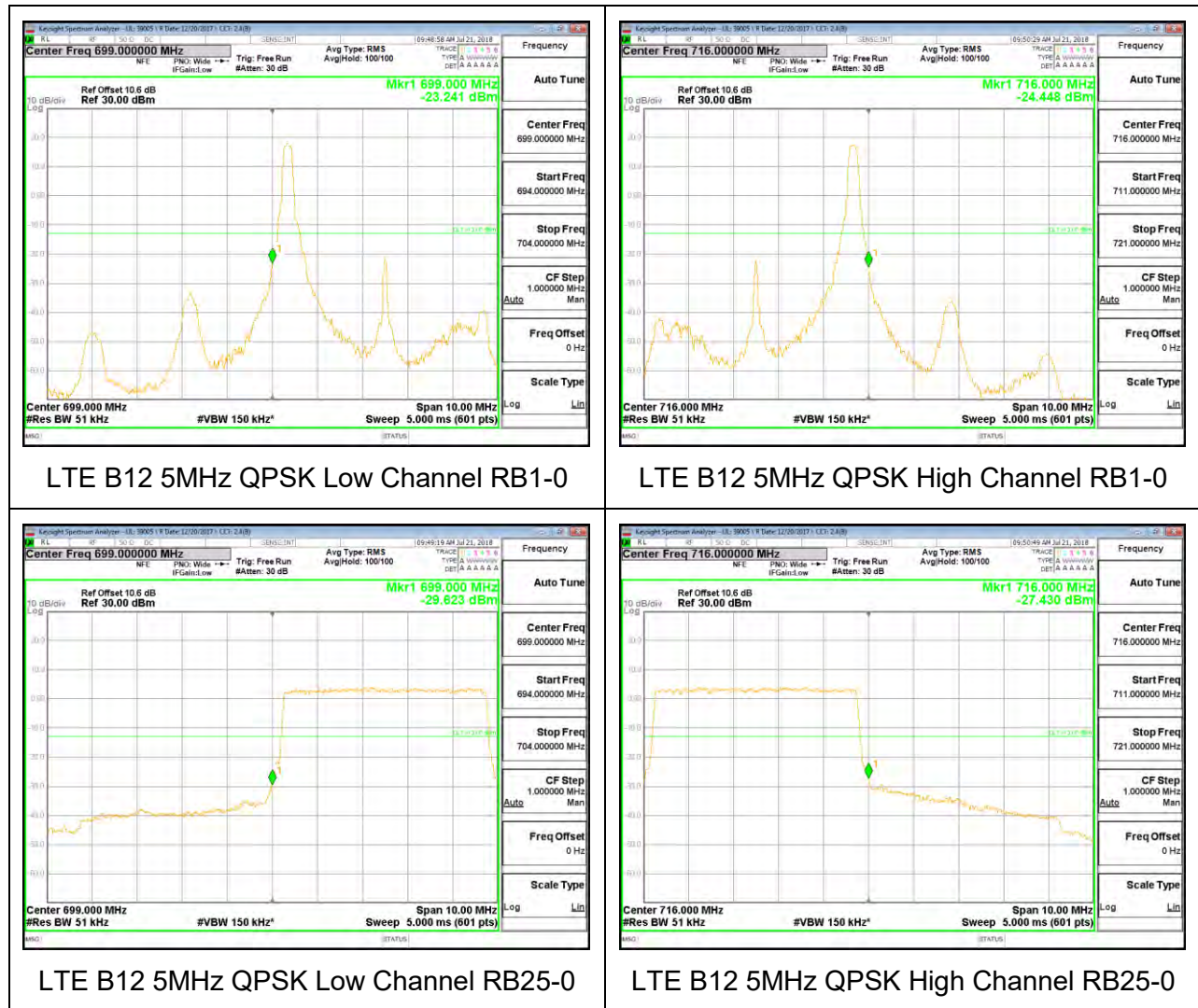


LTE B12 1.4MHz 16QAM High Channel RB6-0

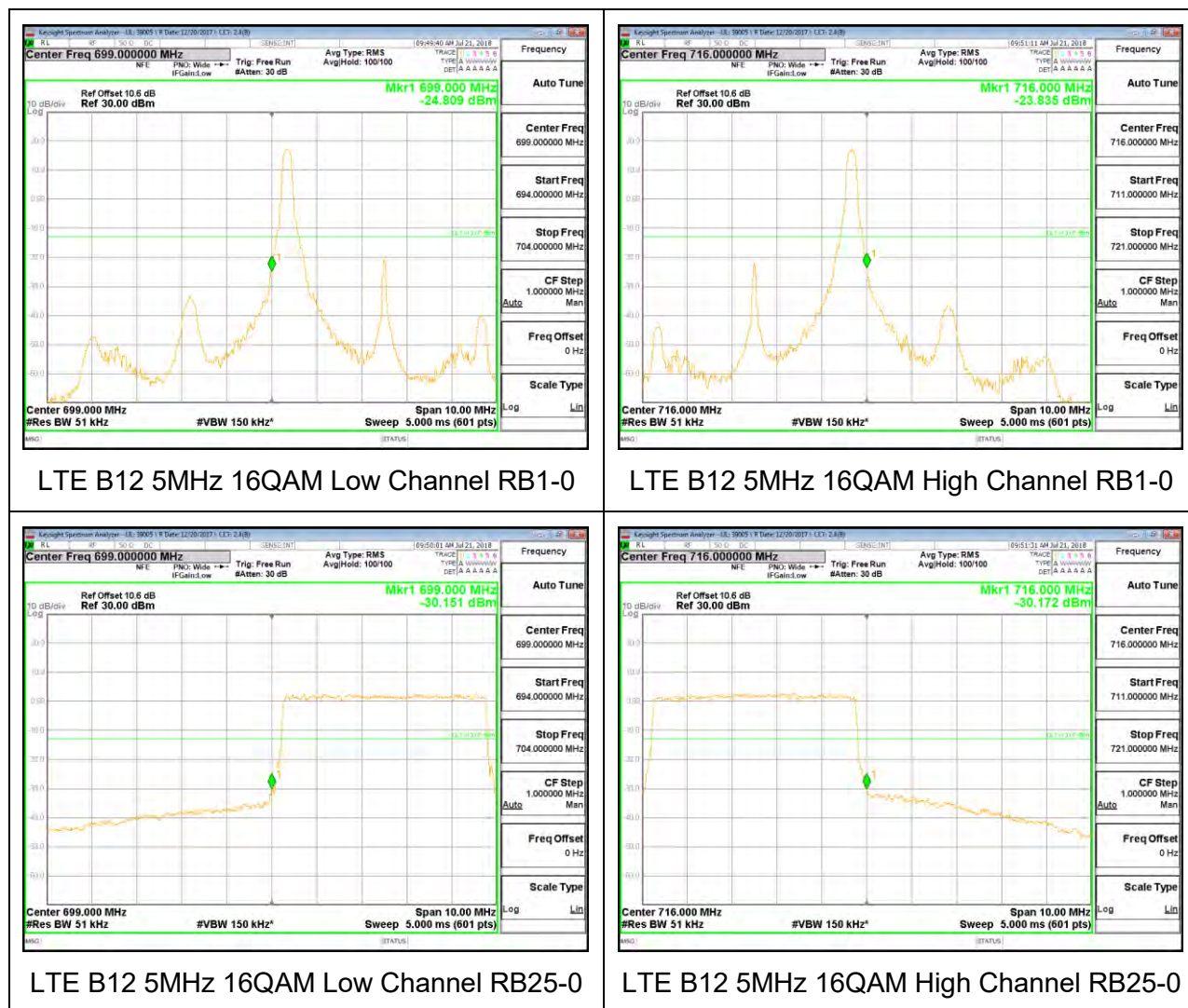


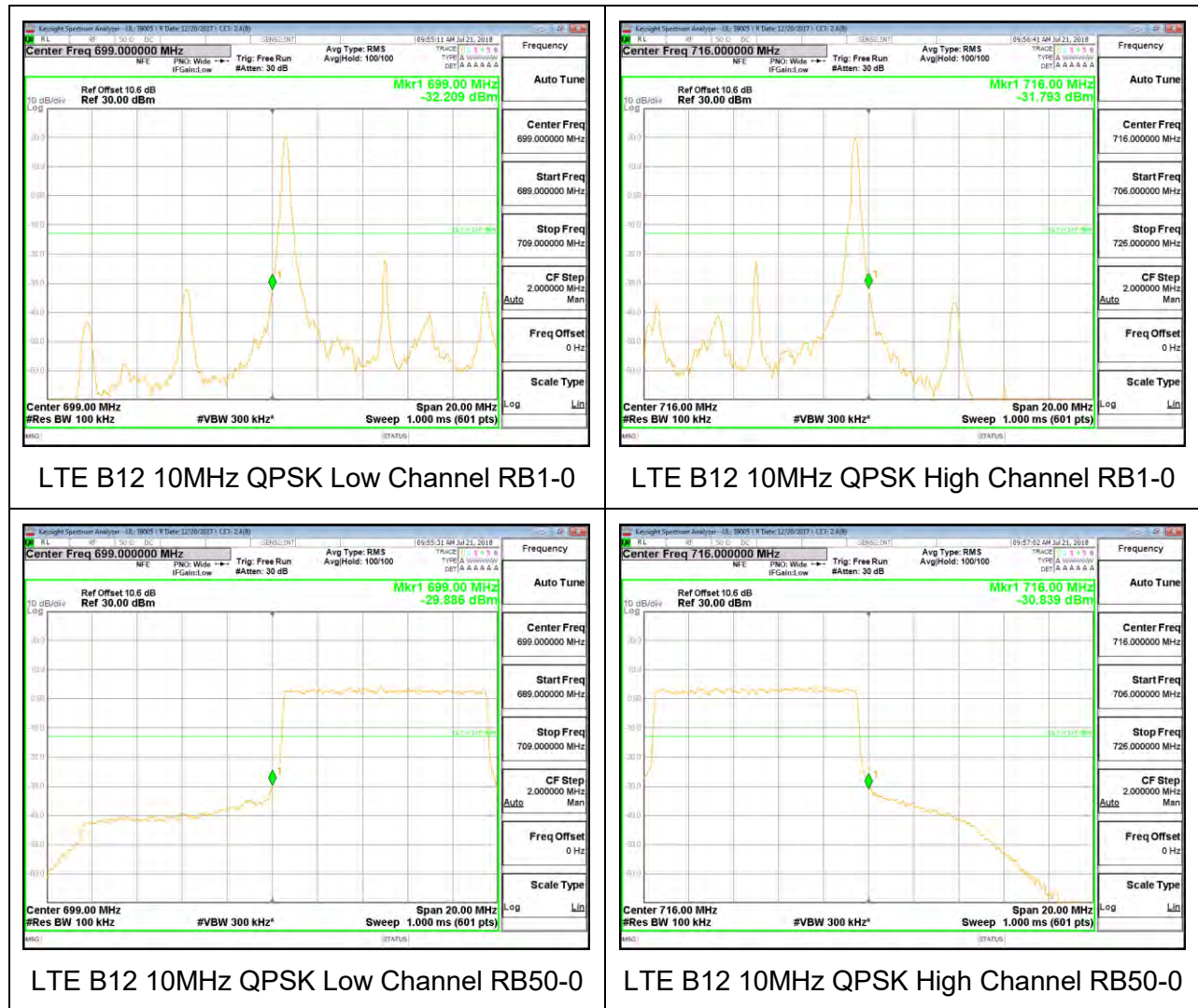


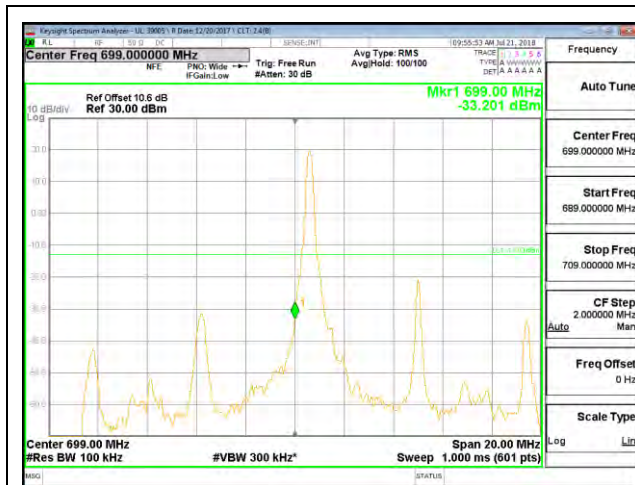




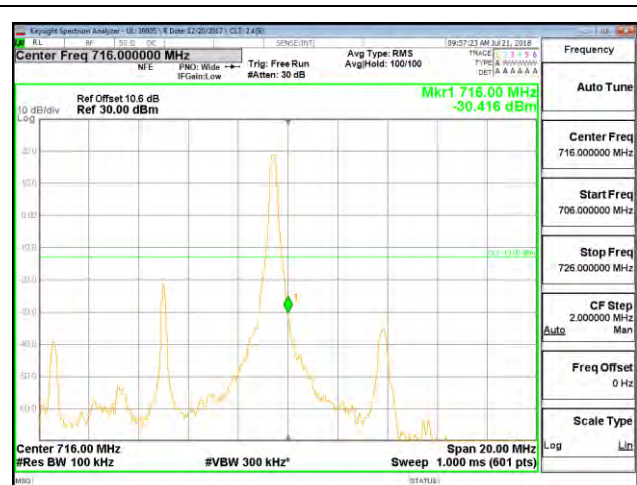




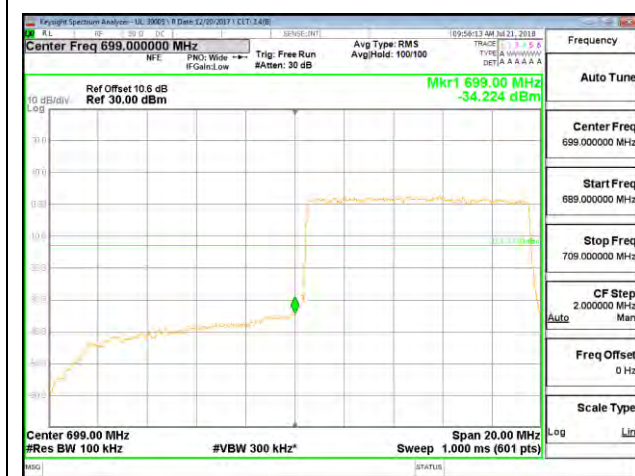




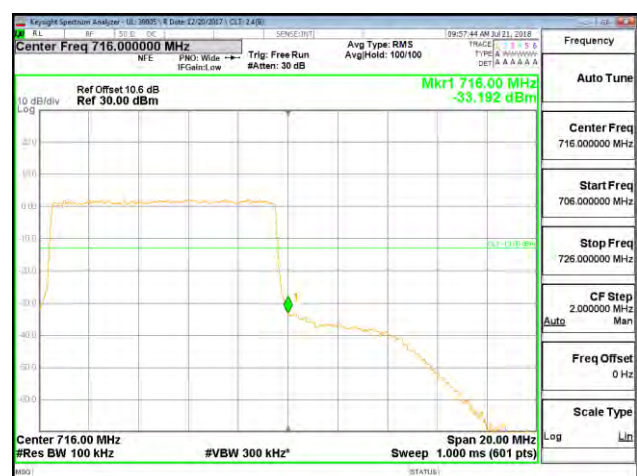
LTE B12 10MHz 16QAM Low Channel RB1-0



LTE B12 10MHz 16QAM High Channel RB1-0



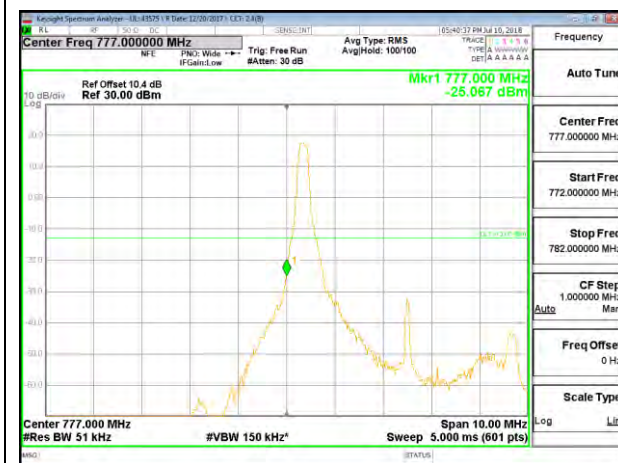
LTE B12 10MHz 16QAM Low Channel RB50-0



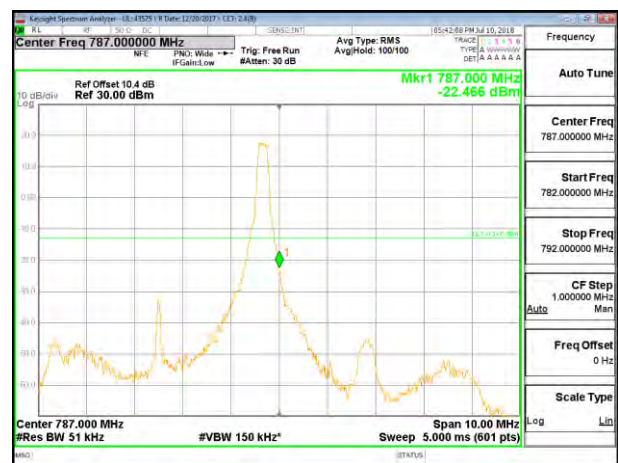
LTE B12 10MHz 16QAM High Channel RB50-0



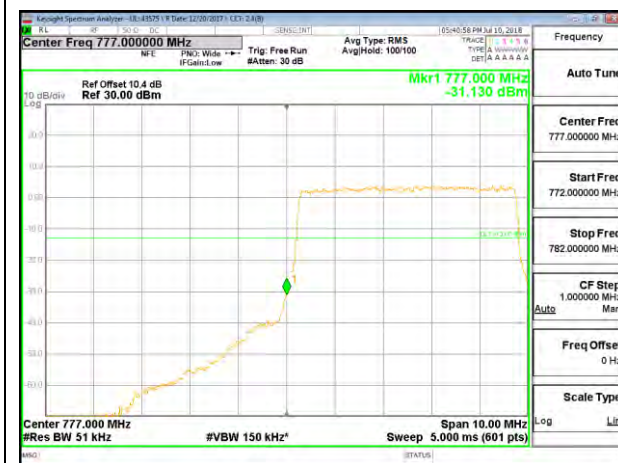
## 8.2.8. LTE BAND 13 BANDEDGE



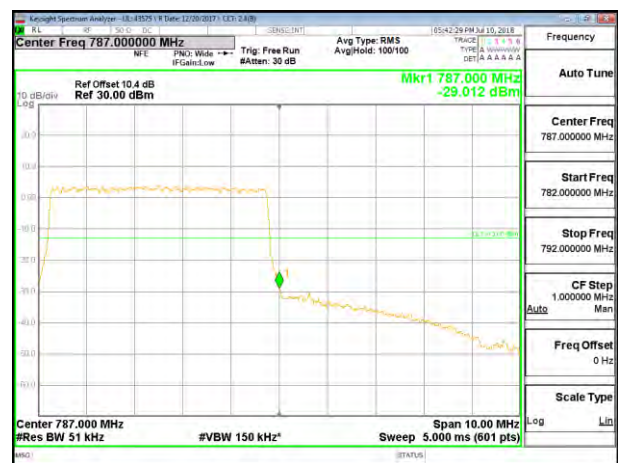
LTE B13 5MHz QPSK Low Channel RB1-0



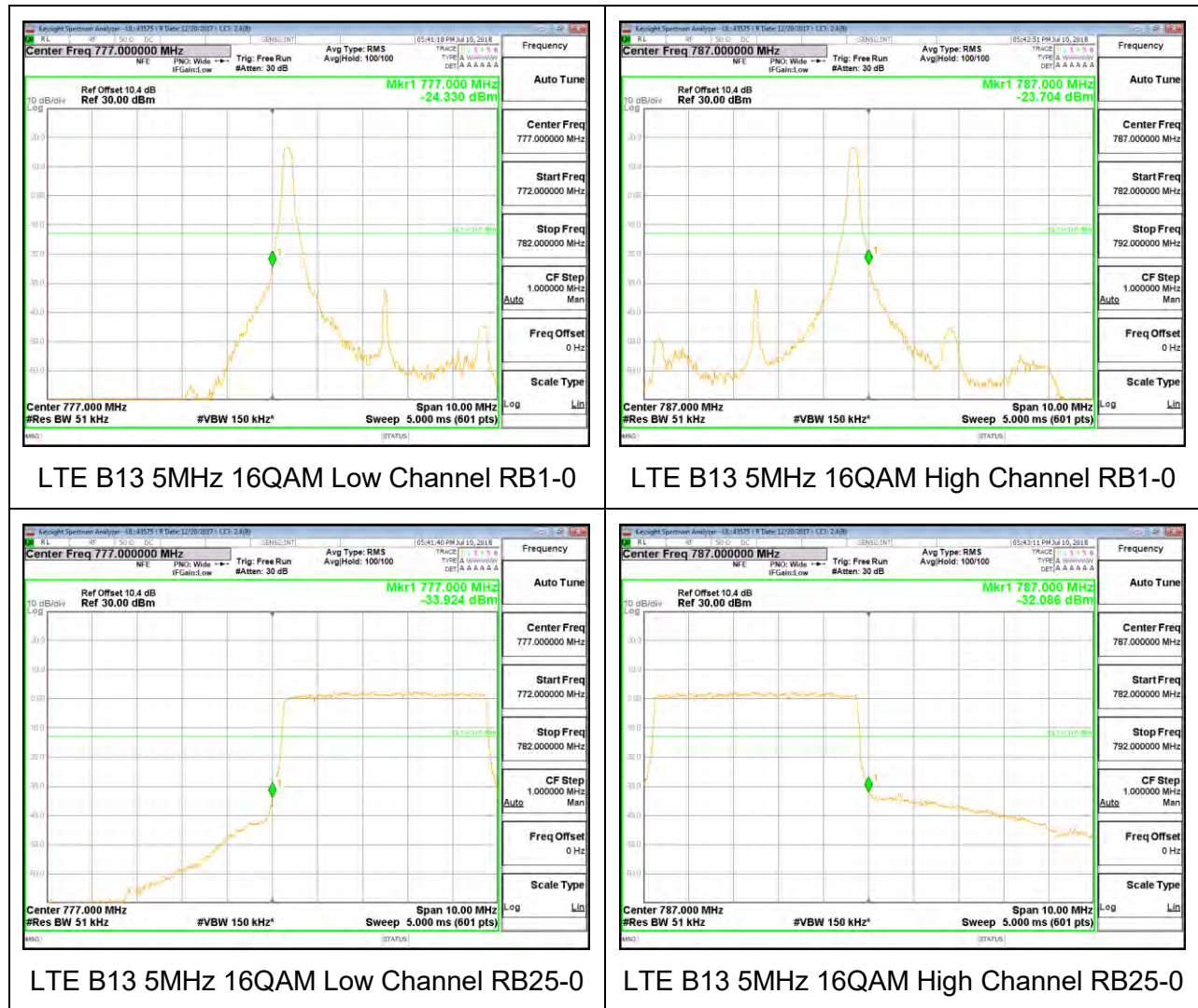
LTE B13 5MHz QPSK High Channel RB1-0

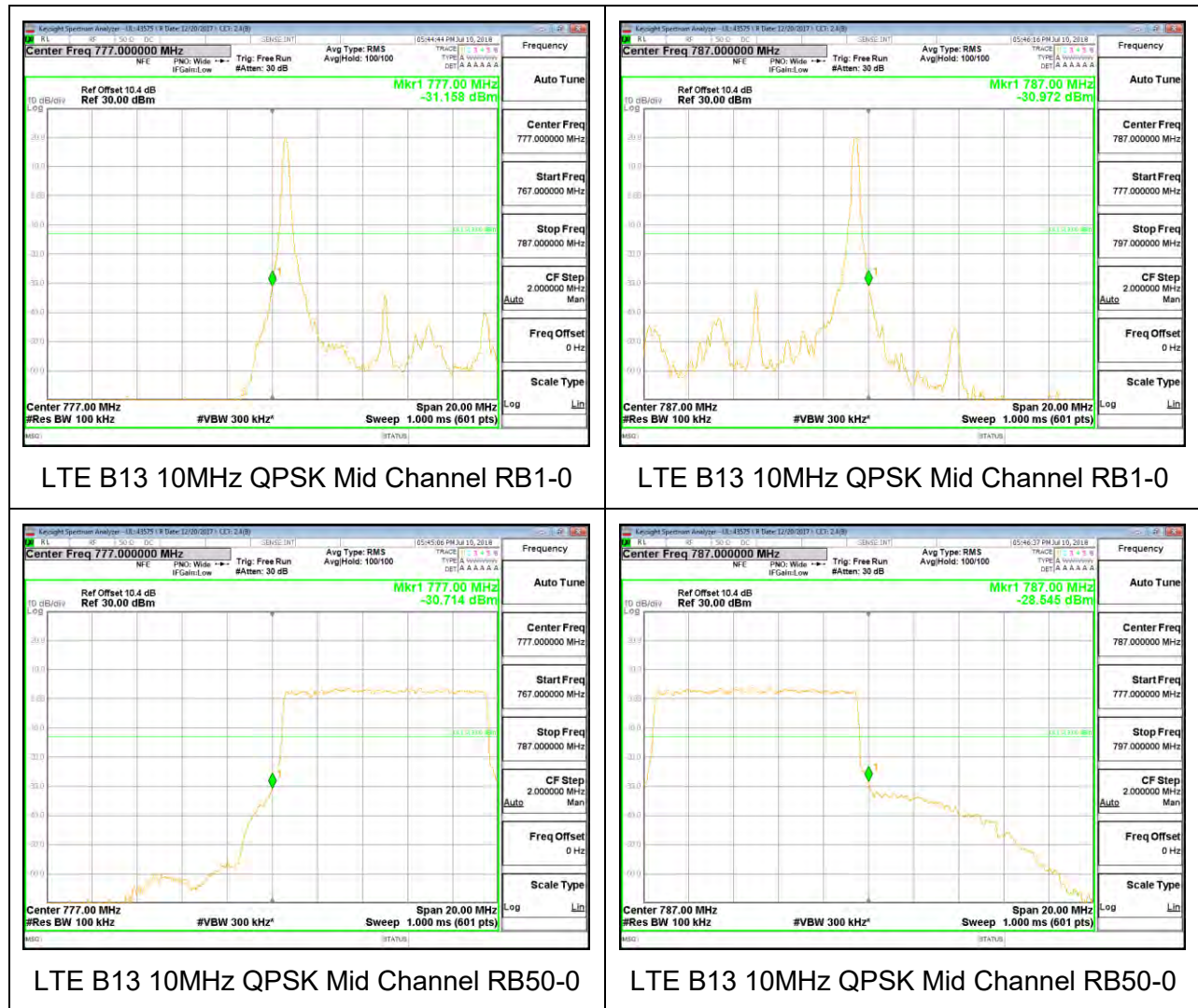


LTE B13 5MHz QPSK Low Channel RB25-0



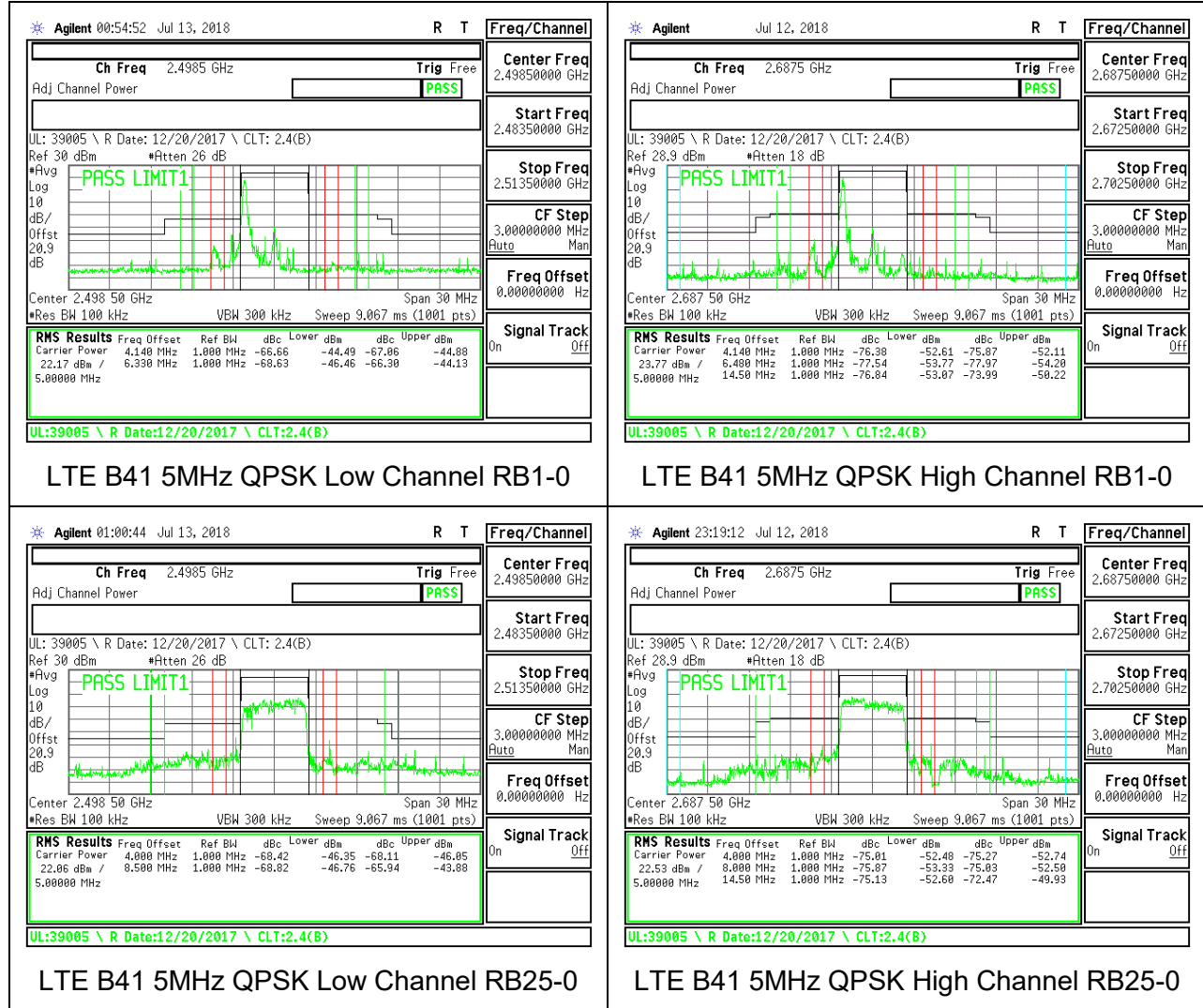
LTE B13 5MHz QPSK High Channel RB25-0

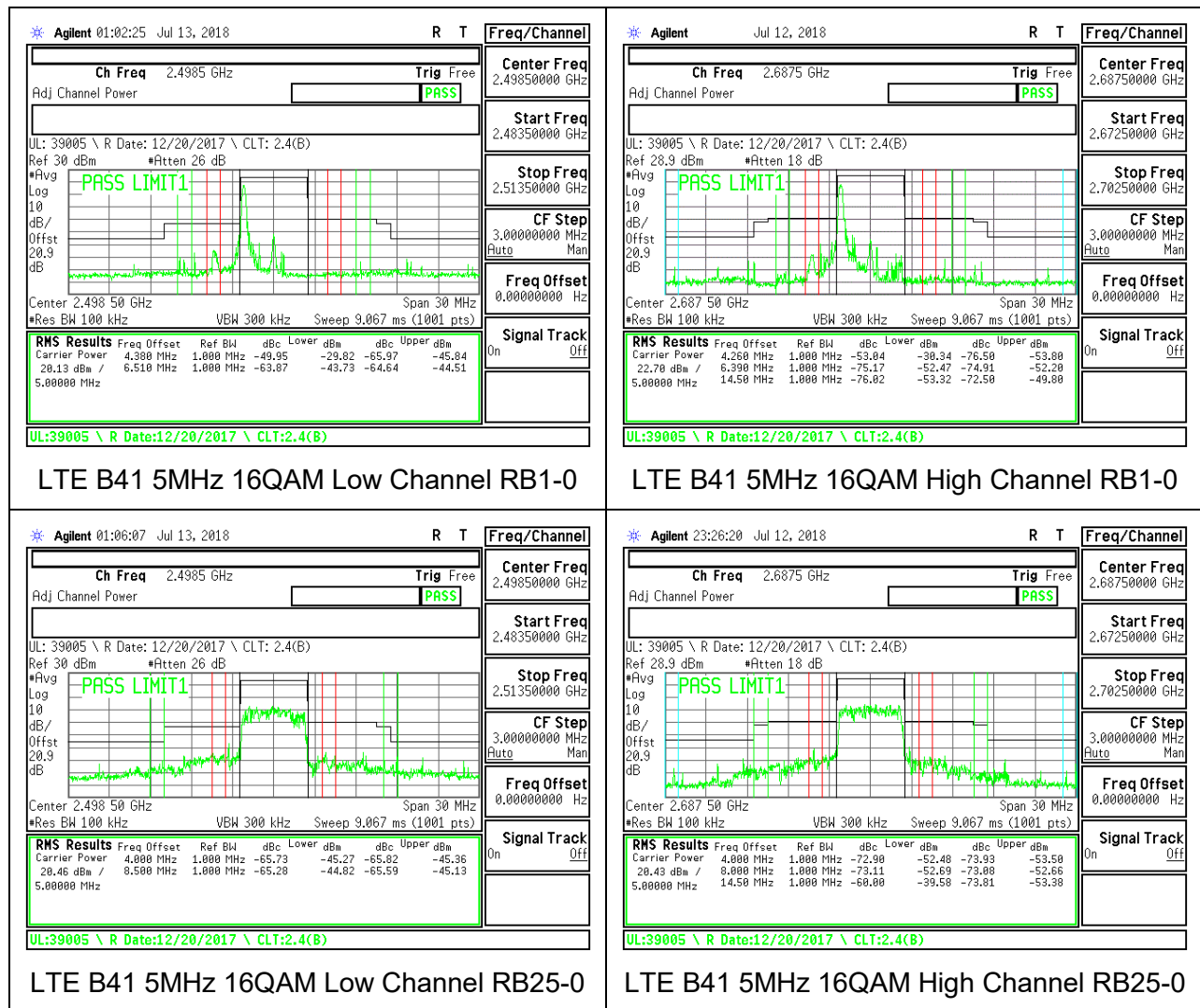


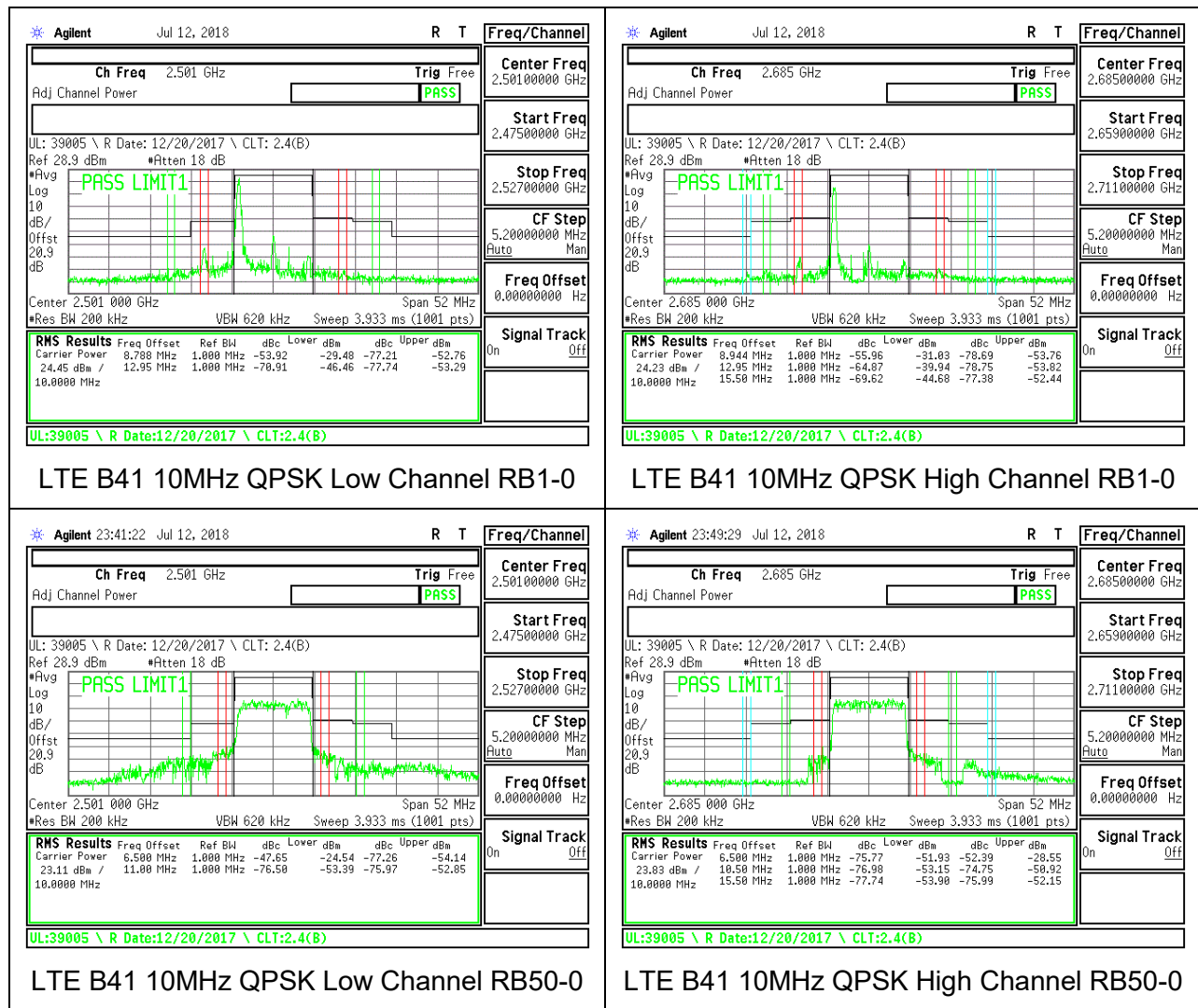




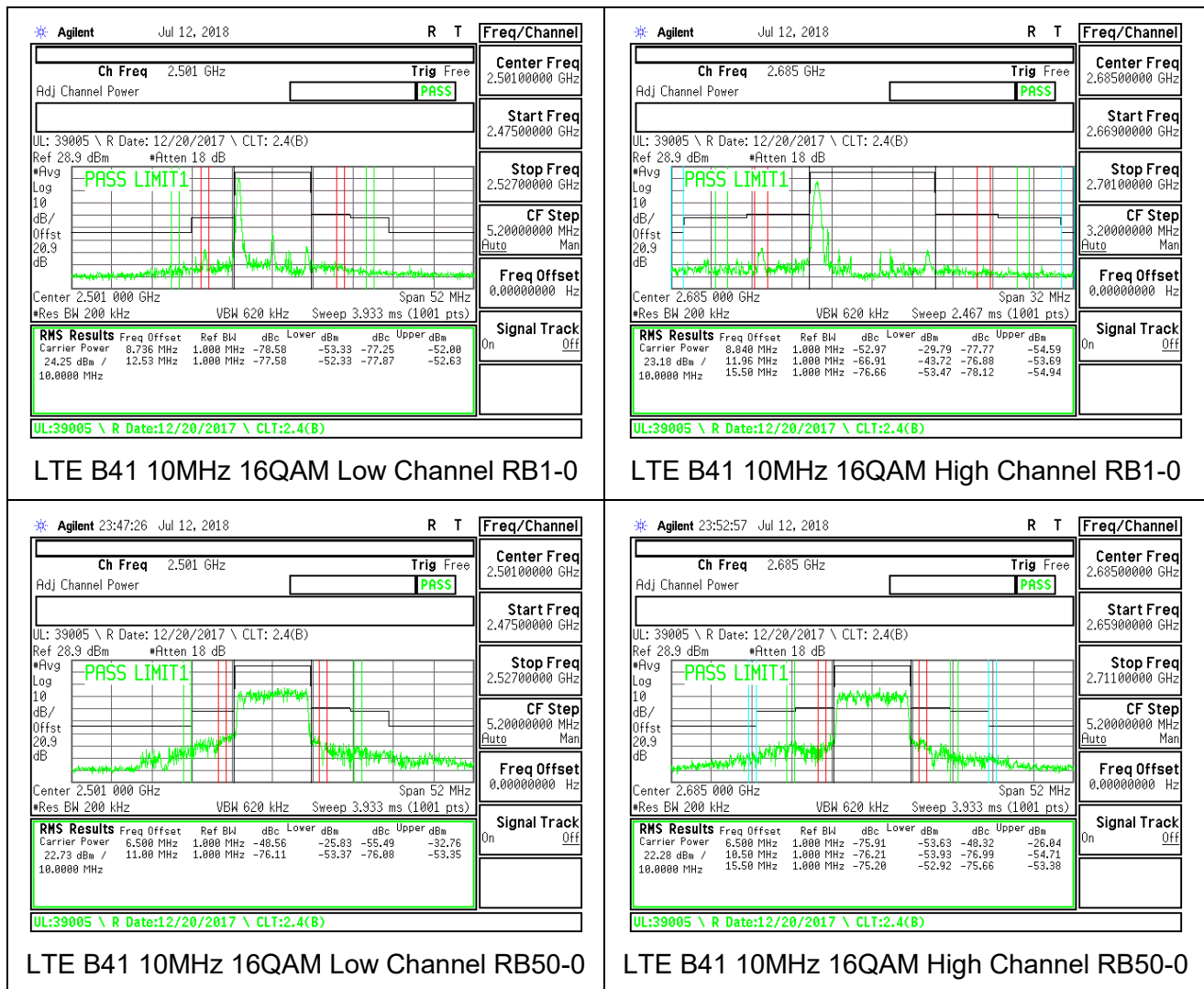
## 8.2.9. LTE BAND 41 ADJACENT CHANNEL POWER

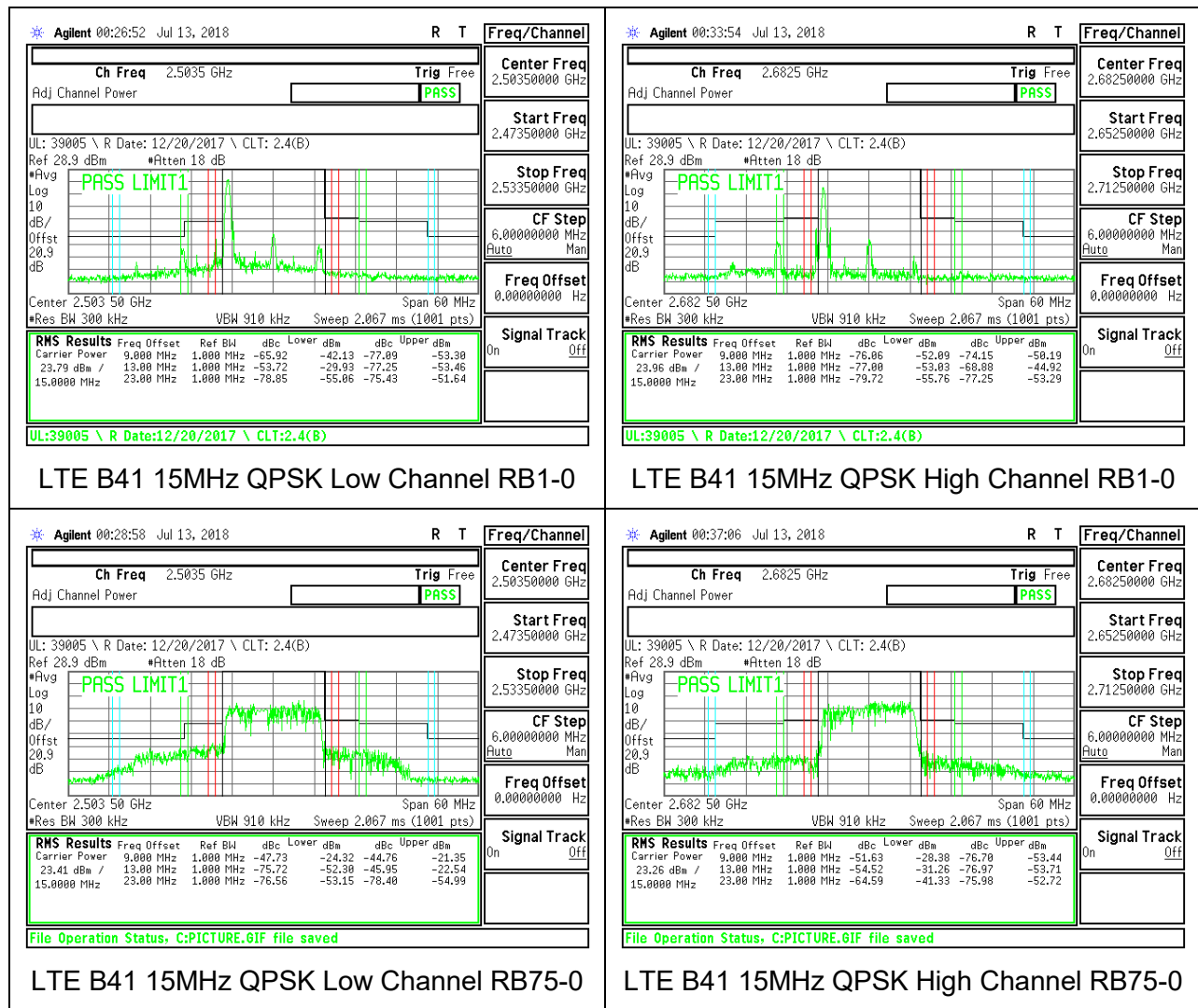


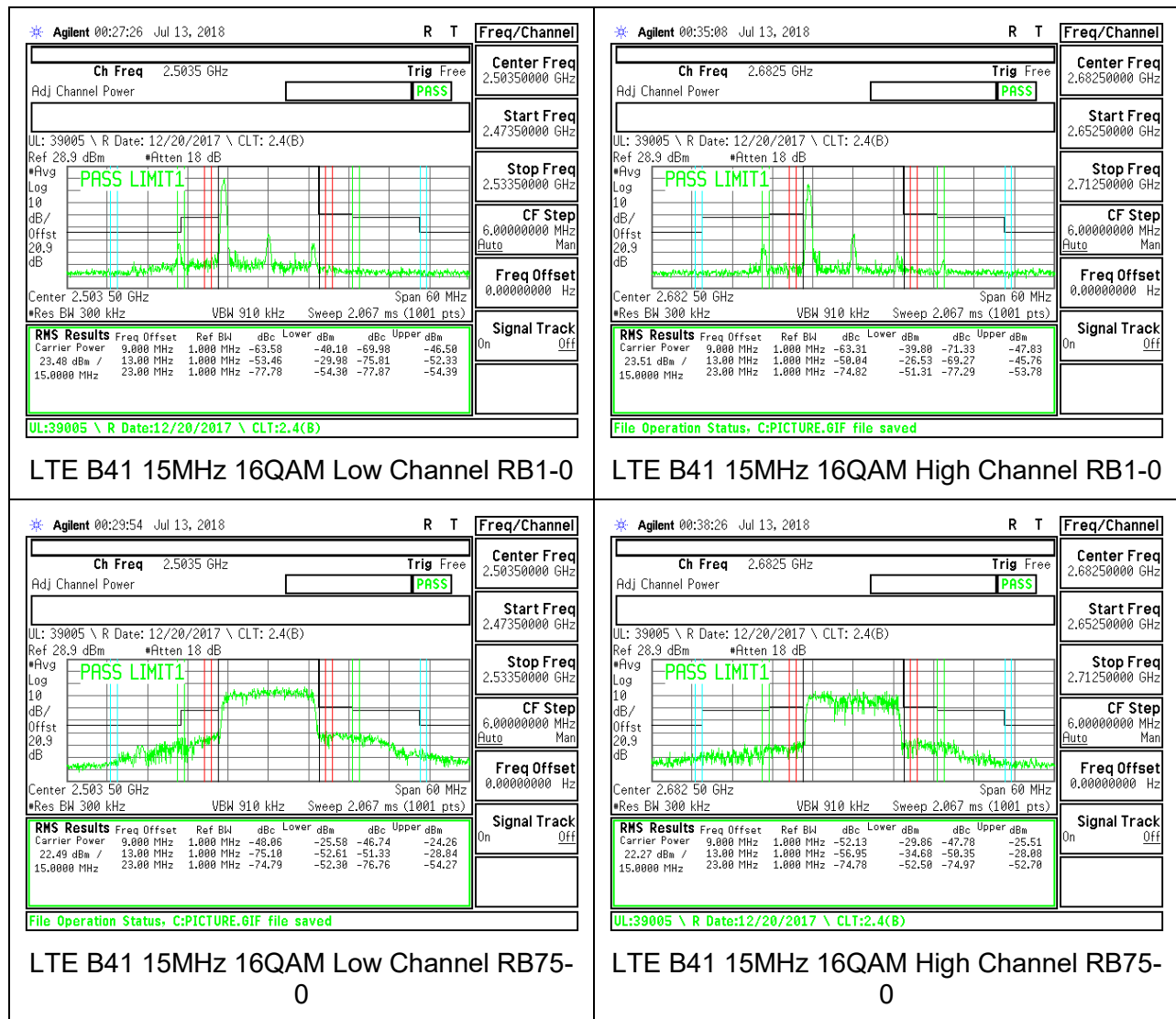




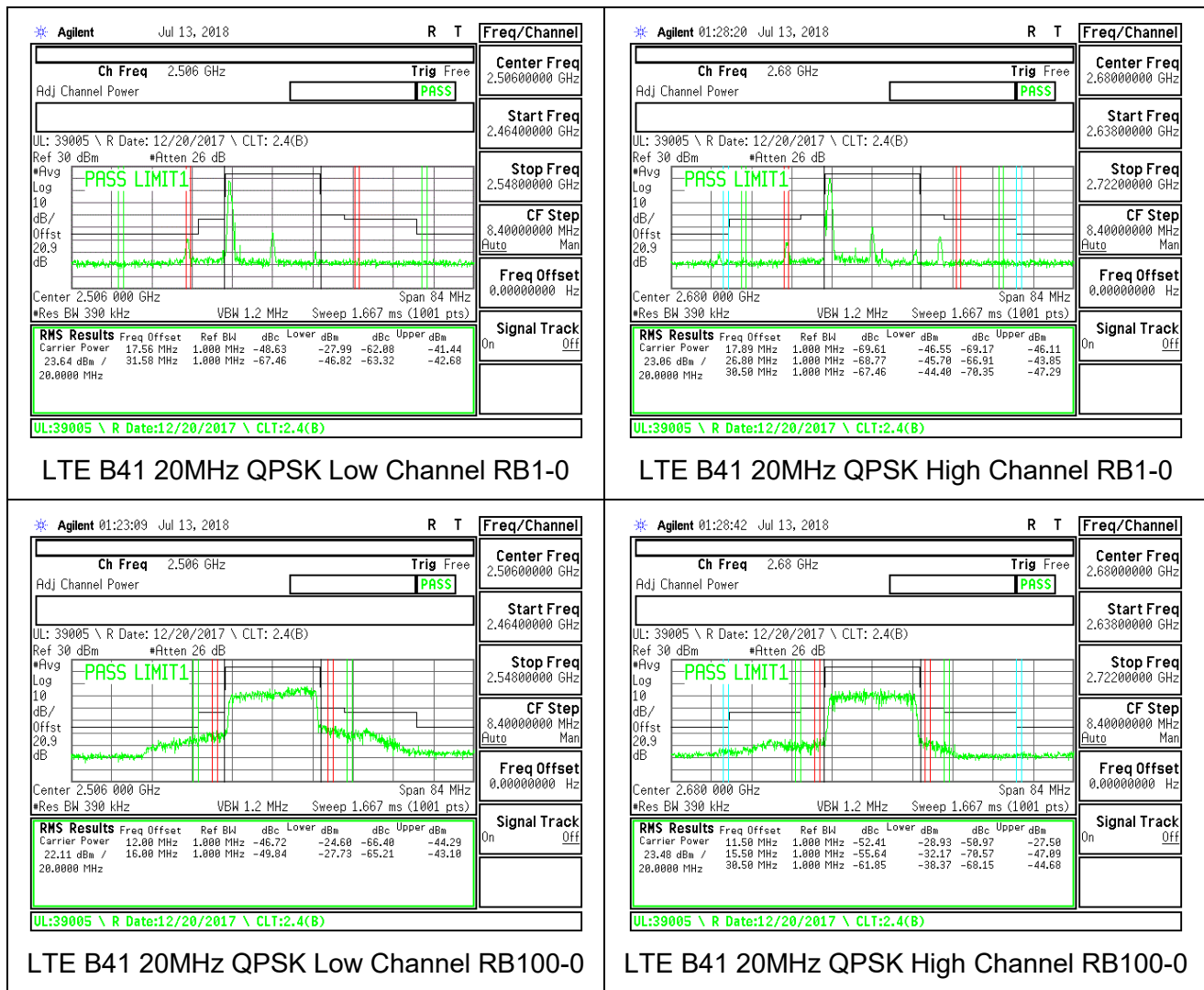


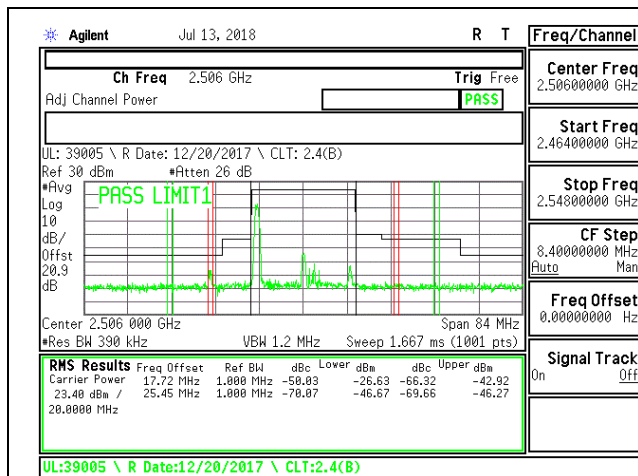




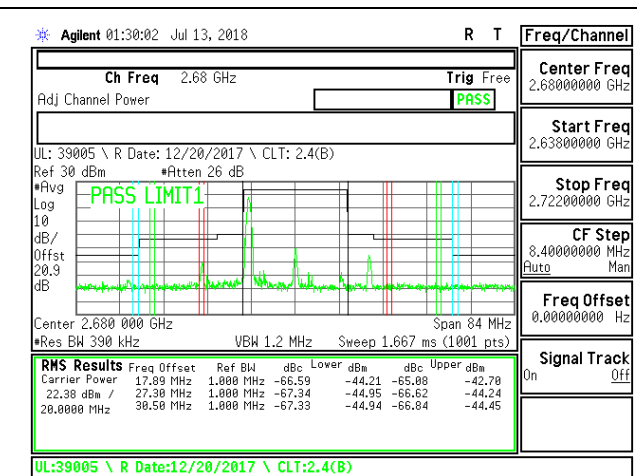




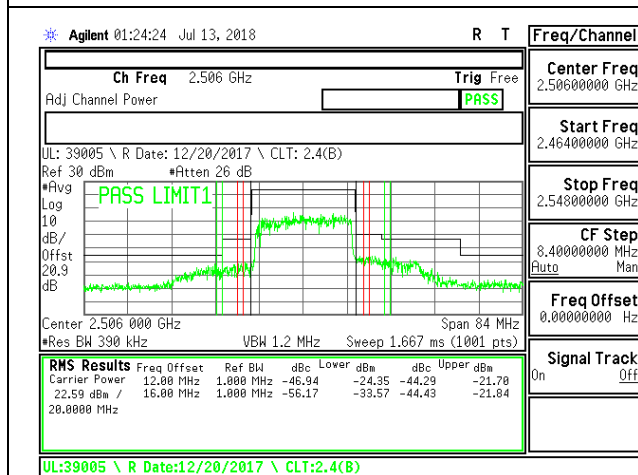




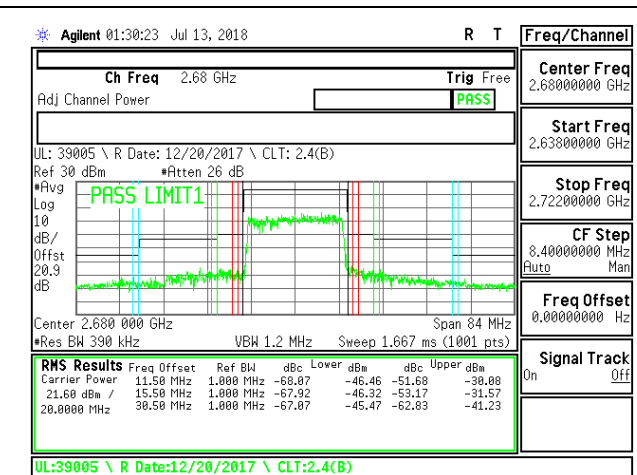
LTE B41 20MHz 16QAM Low Channel RB1-0



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

#### **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 (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**

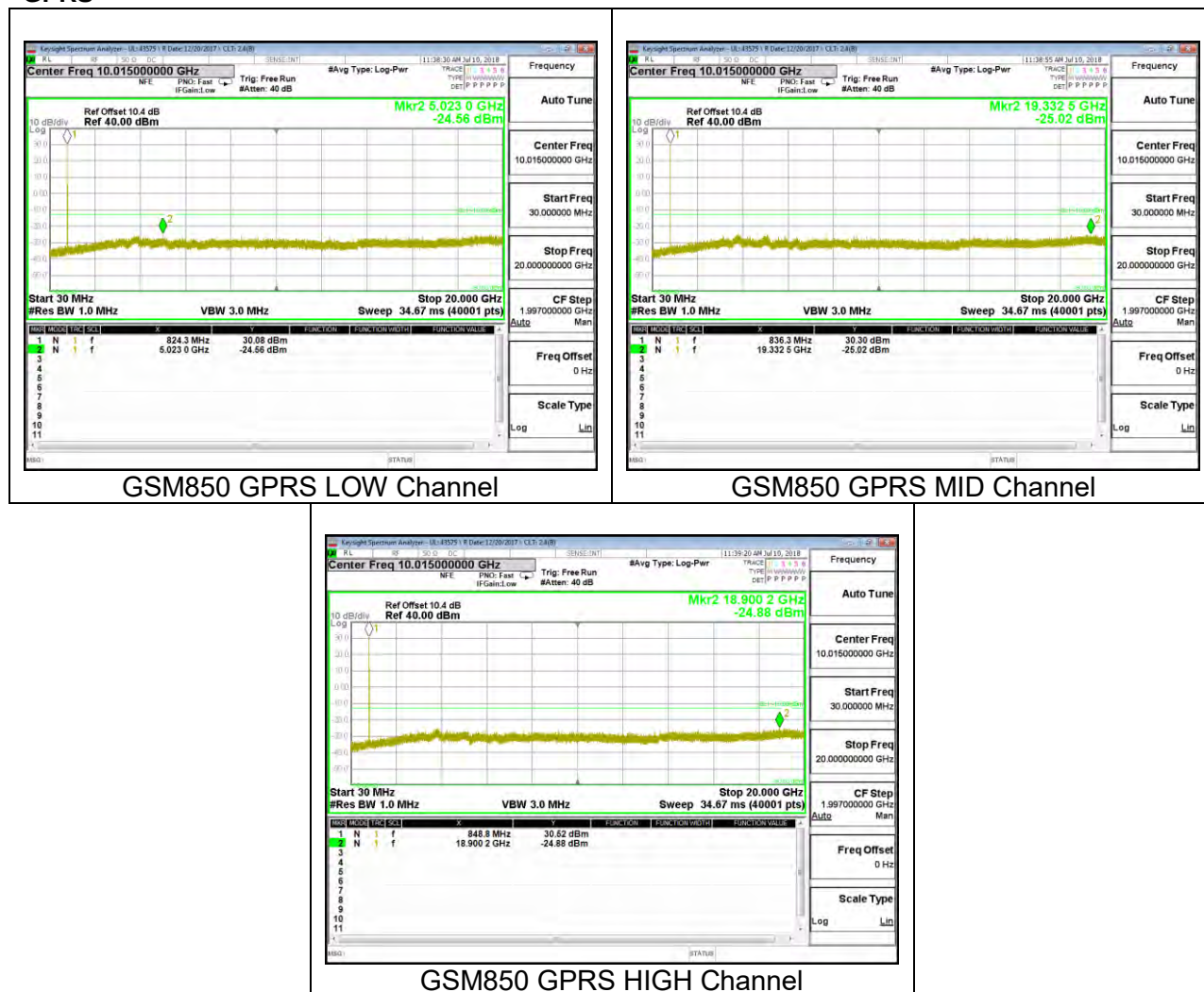
- GSM 850
- GSM 1900
- WCDMA Band 5
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 41

#### **RESULTS**

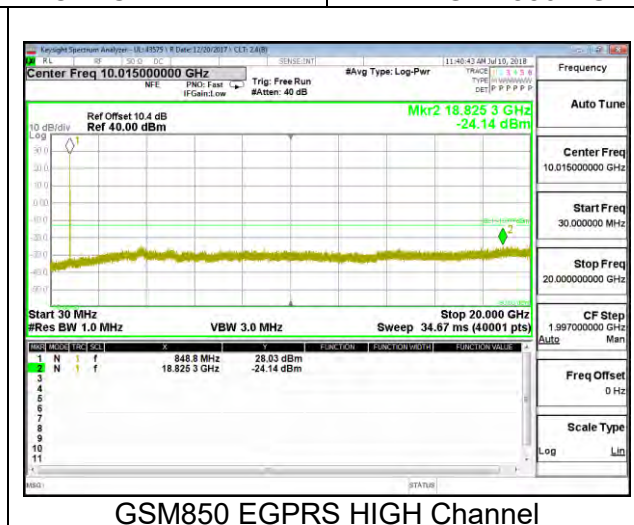
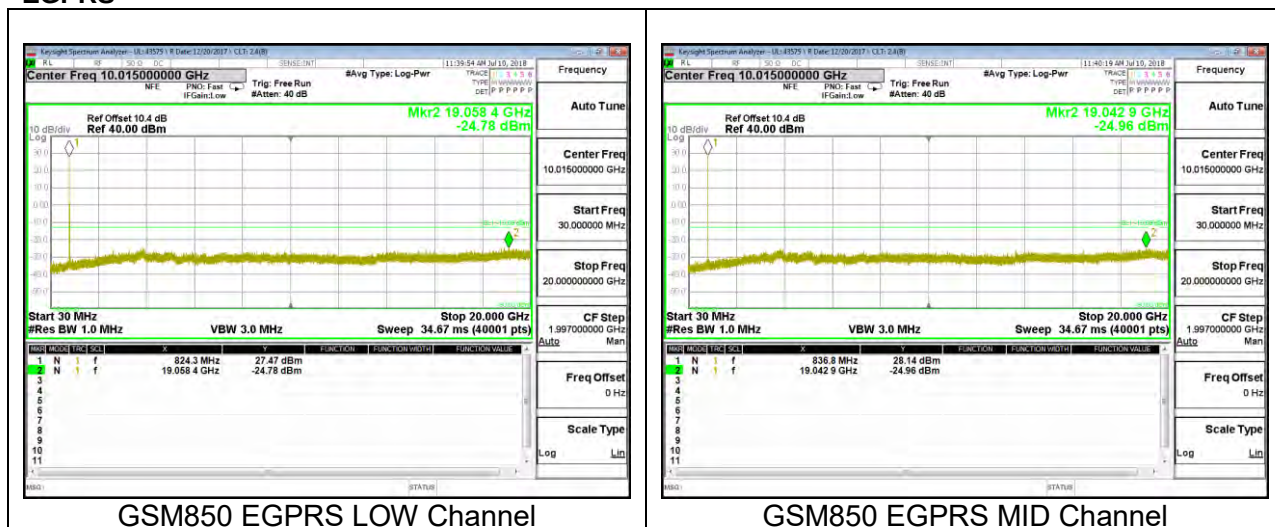


### 8.3.1. GSM850

#### GPRS

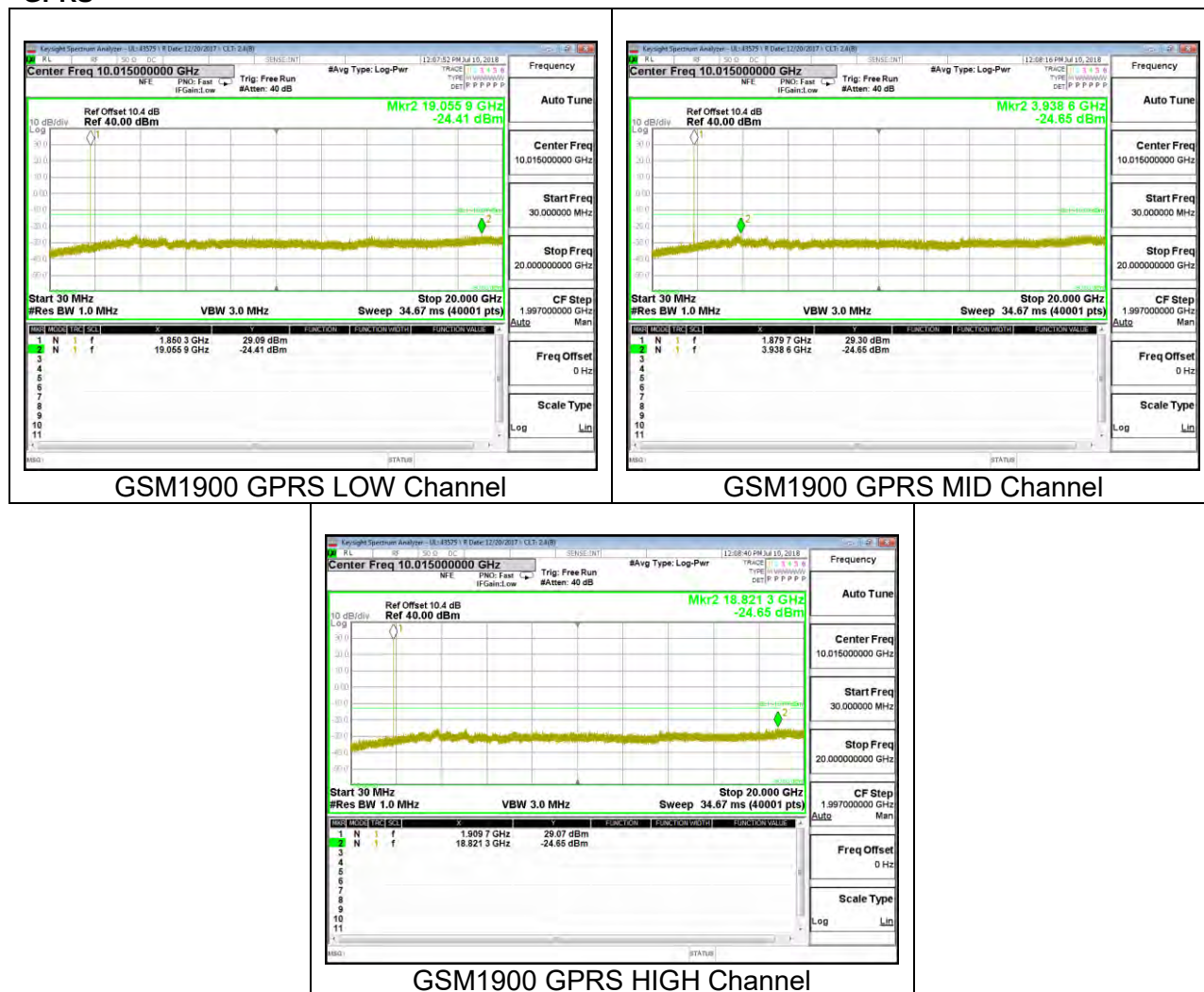


EGPRS

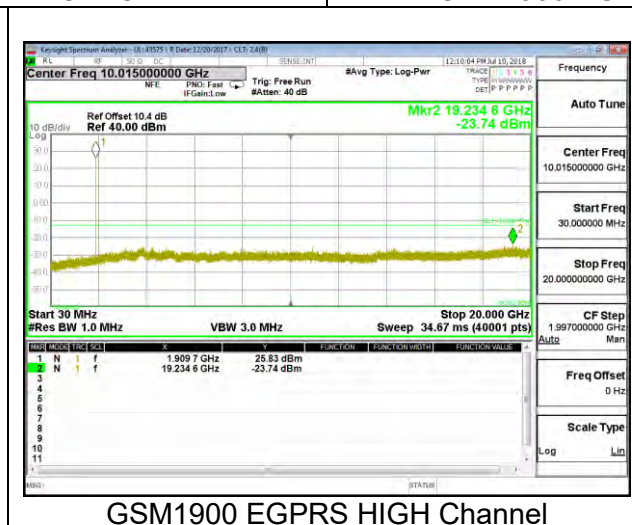
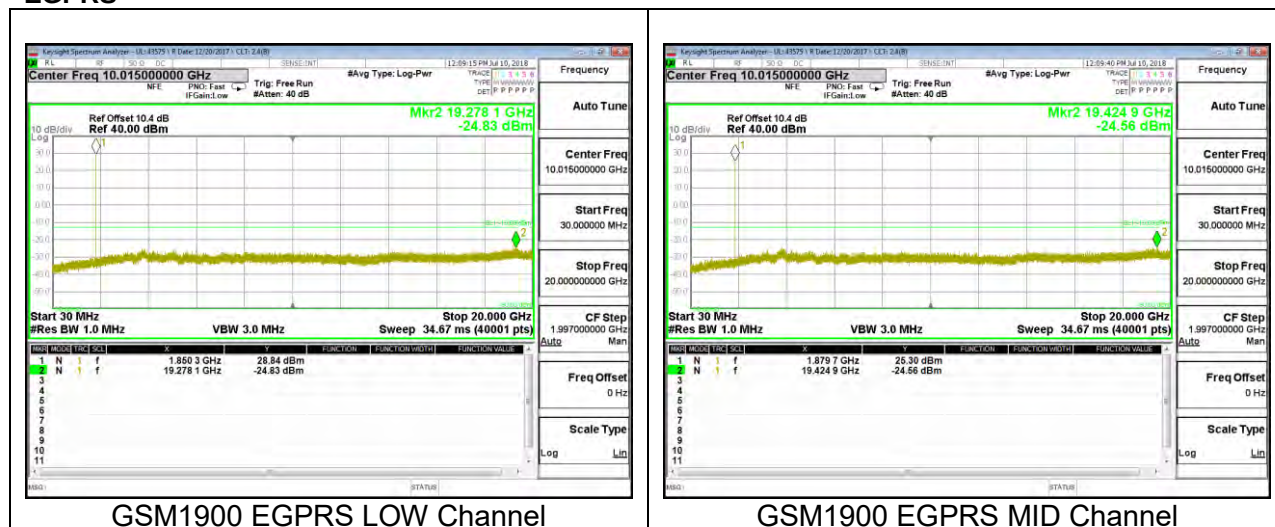


## 8.3.2. GSM1900

### GPRS



EGPRS



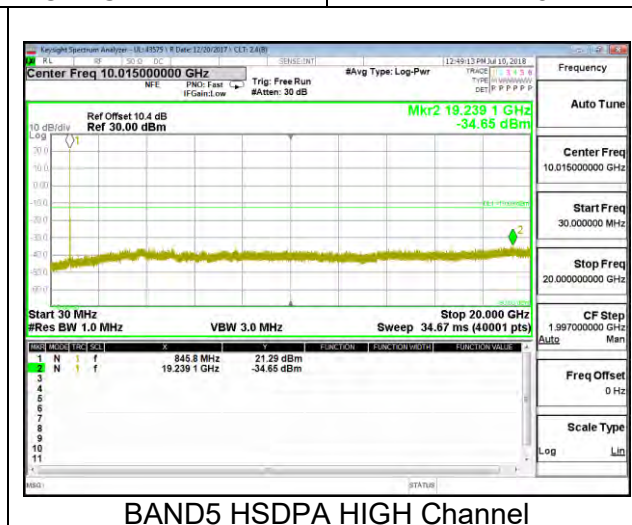
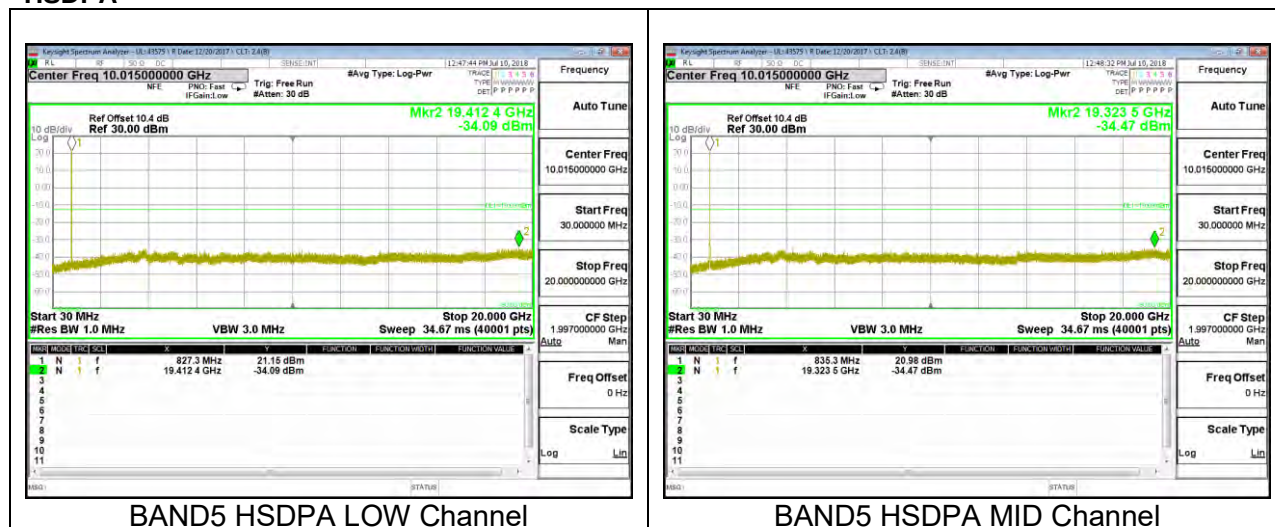


### 8.3.3. WCDMA5

#### Rel99



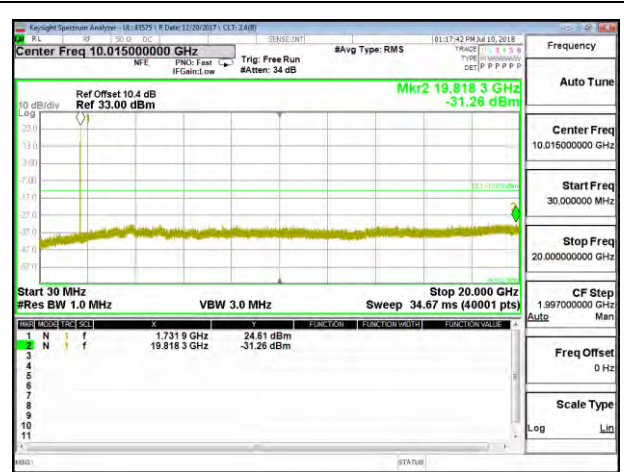
## HSDPA



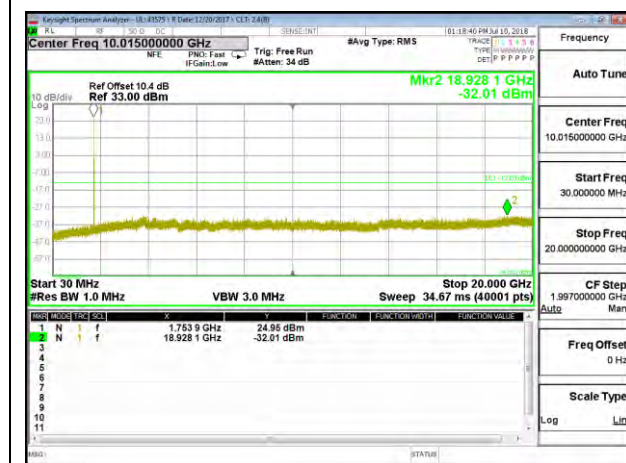
### 8.3.4. LTE BAND 4



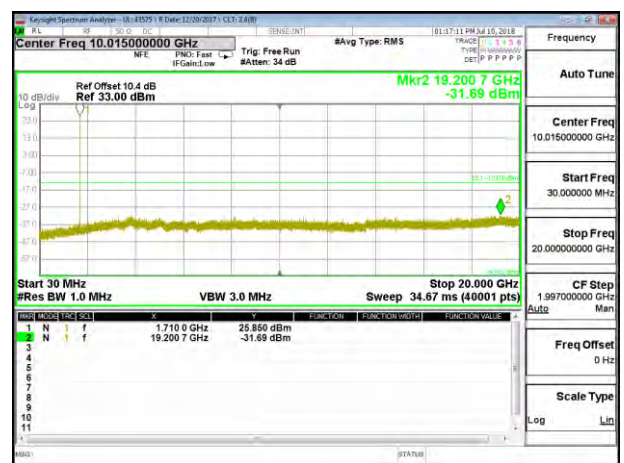
LTE B4 1.4MHz QPSK Low Channel RB1-0



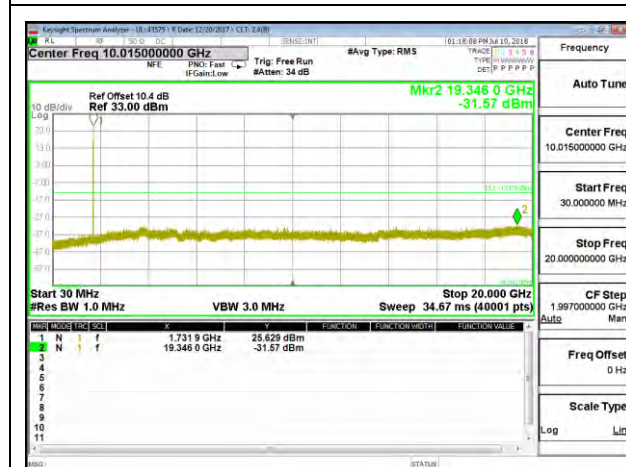
LTE B4 1.4MHz QPSK Mid Channel RB1-0



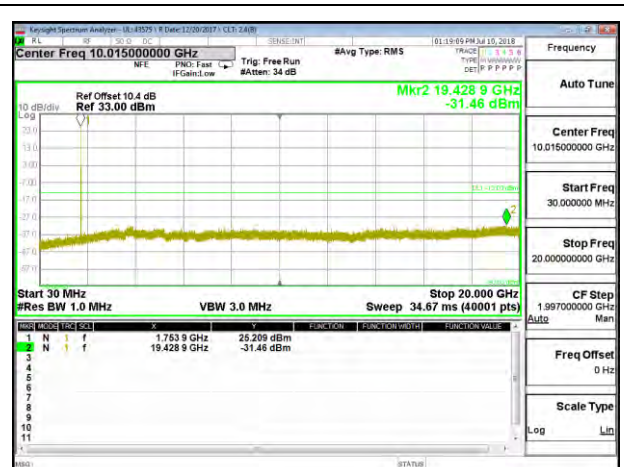
LTE B4 1.4MHz QPSK High Channel RB1-0



LTE B4 1.4MHz 16QAM Low Channel RB1-0

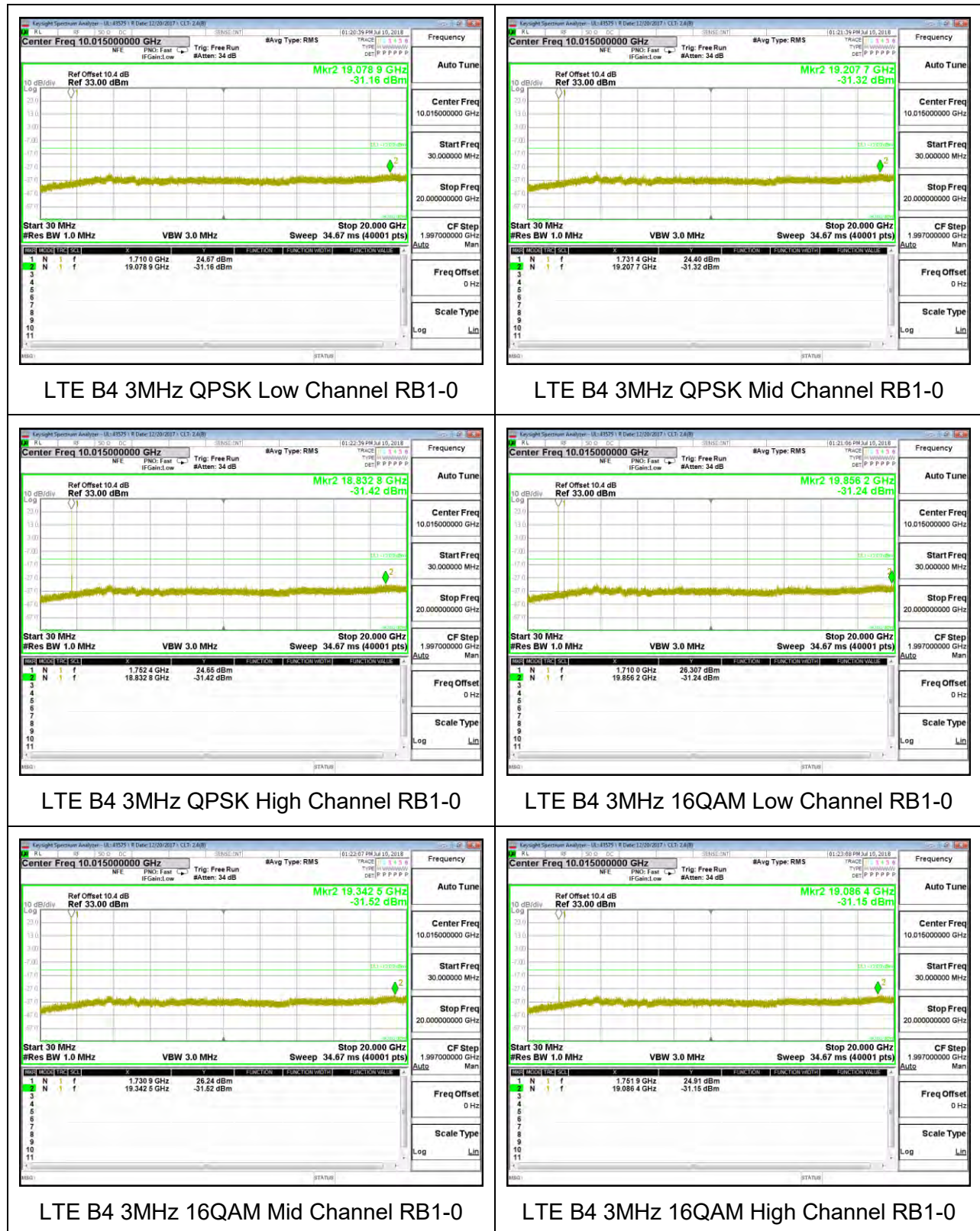


LTE B4 1.4MHz 16QAM Mid Channel RB1-0

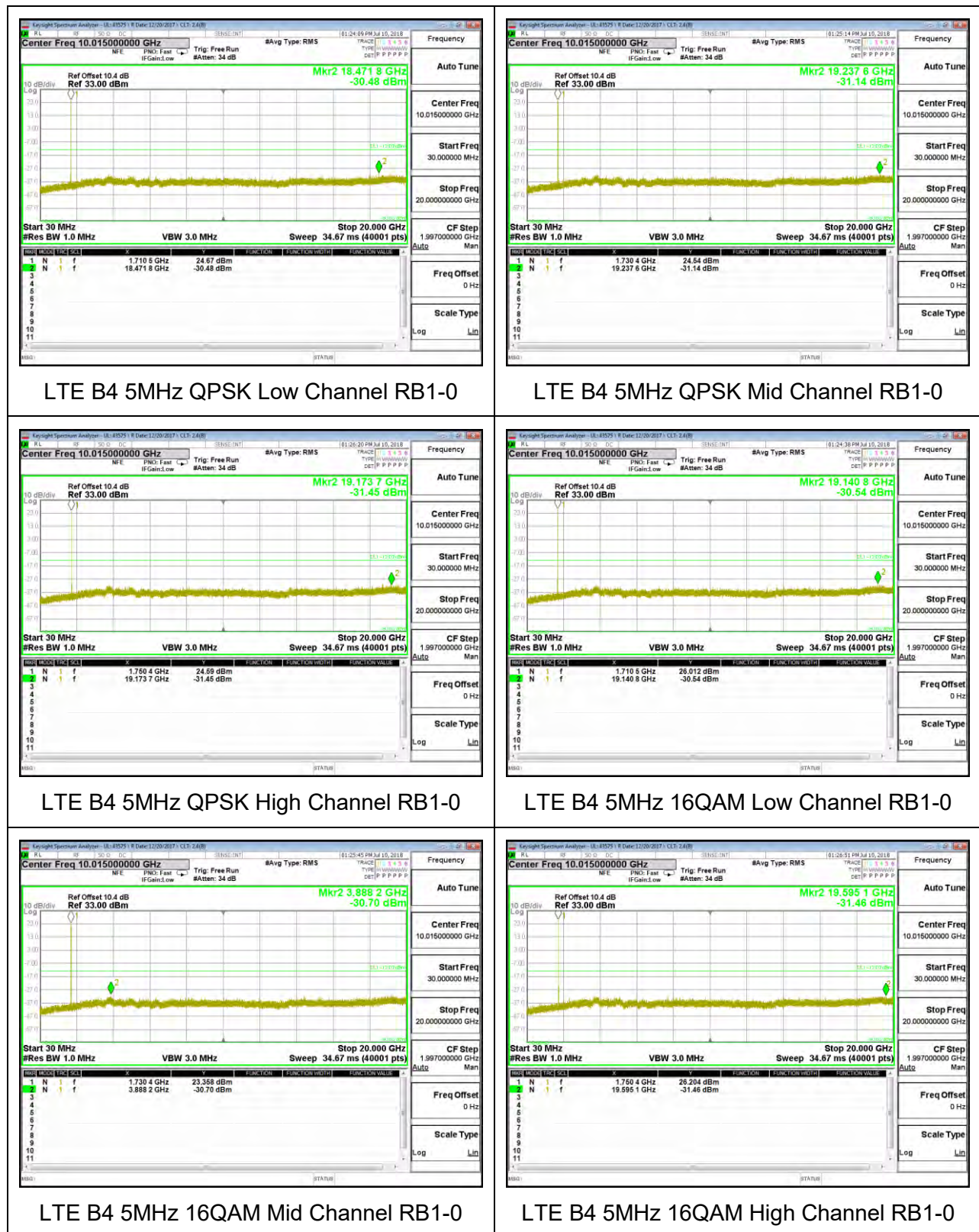


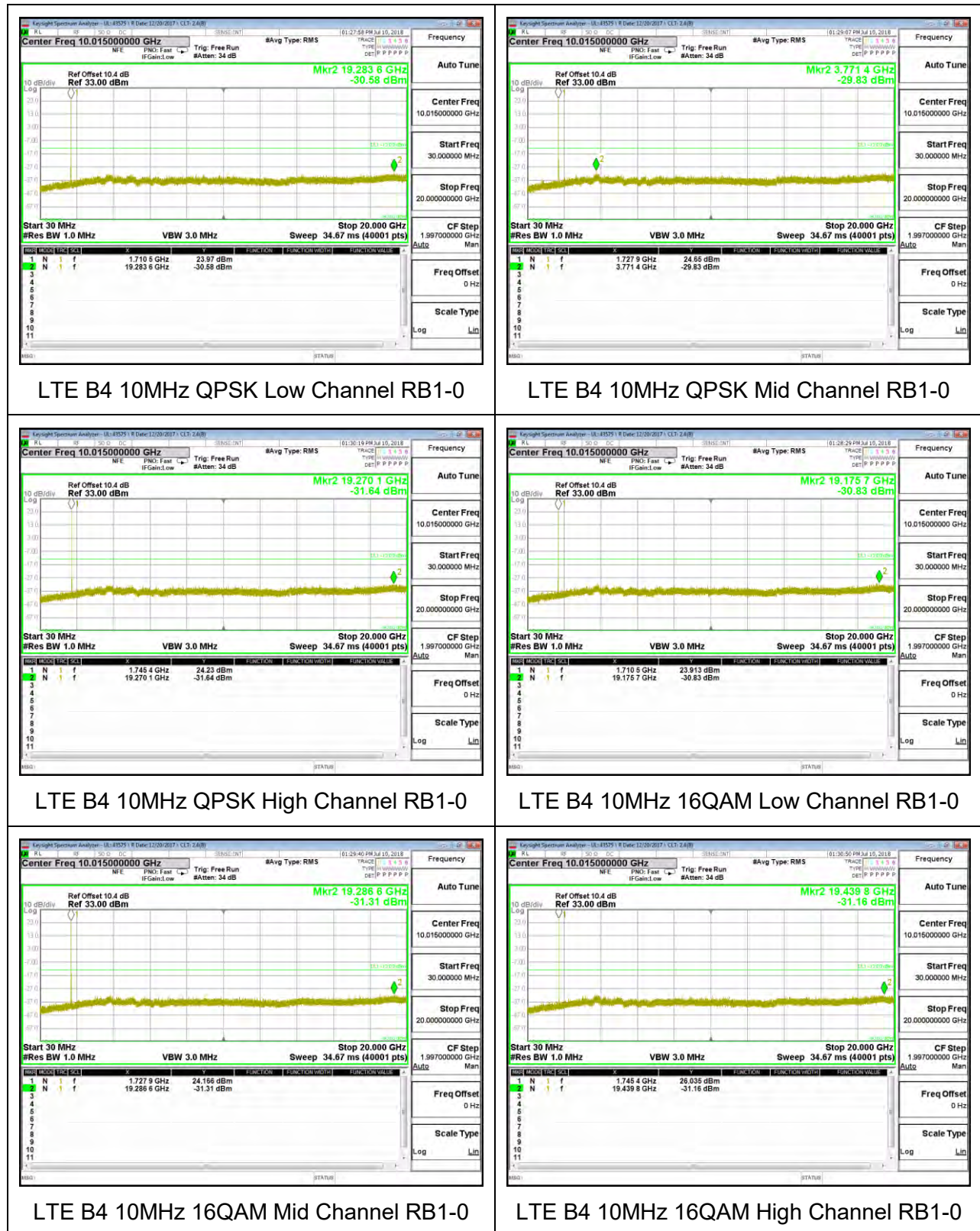
LTE B4 1.4MHz 16QAM High Channel RB1-0



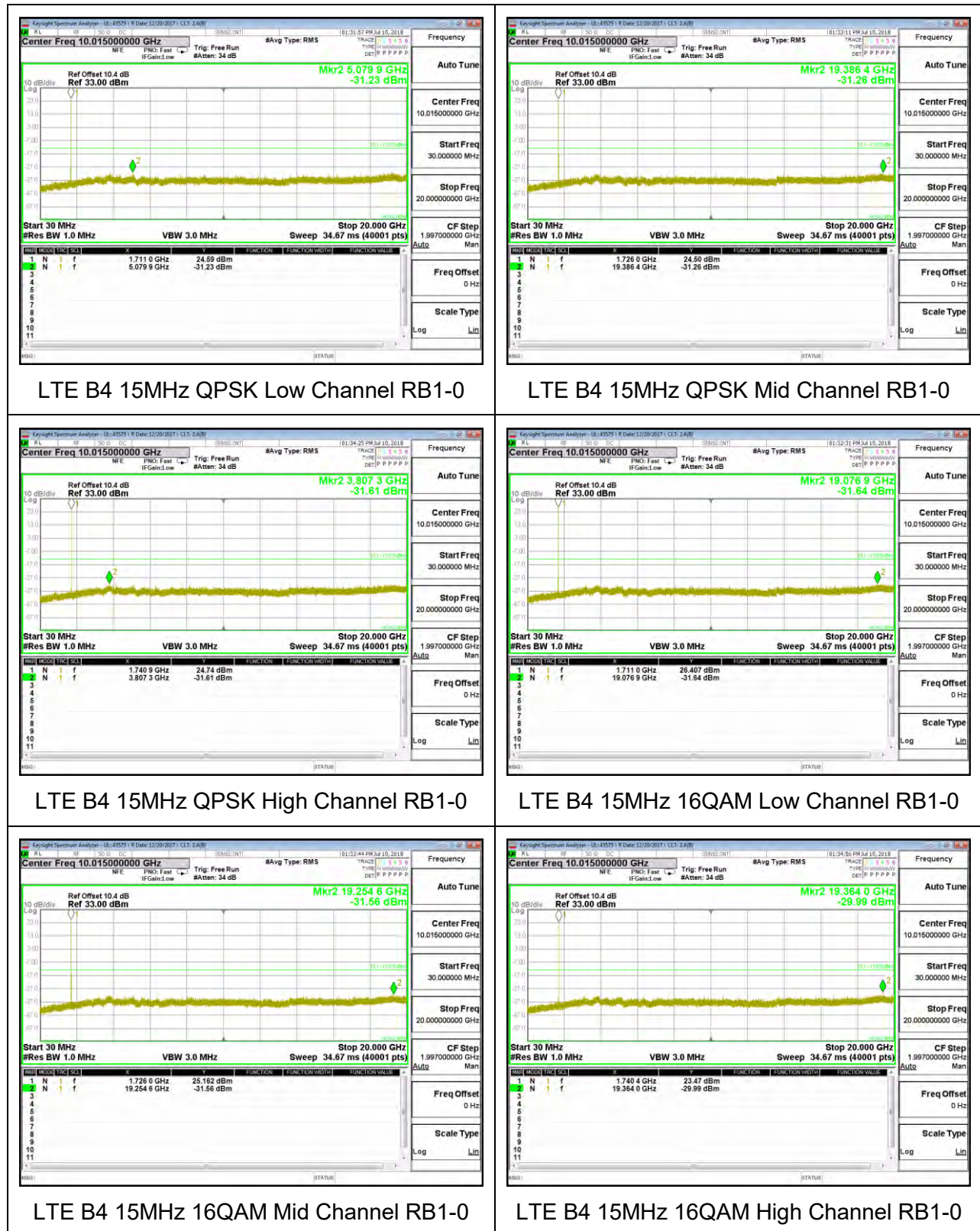












LTE B4 15MHz QPSK Low Channel RB1-0

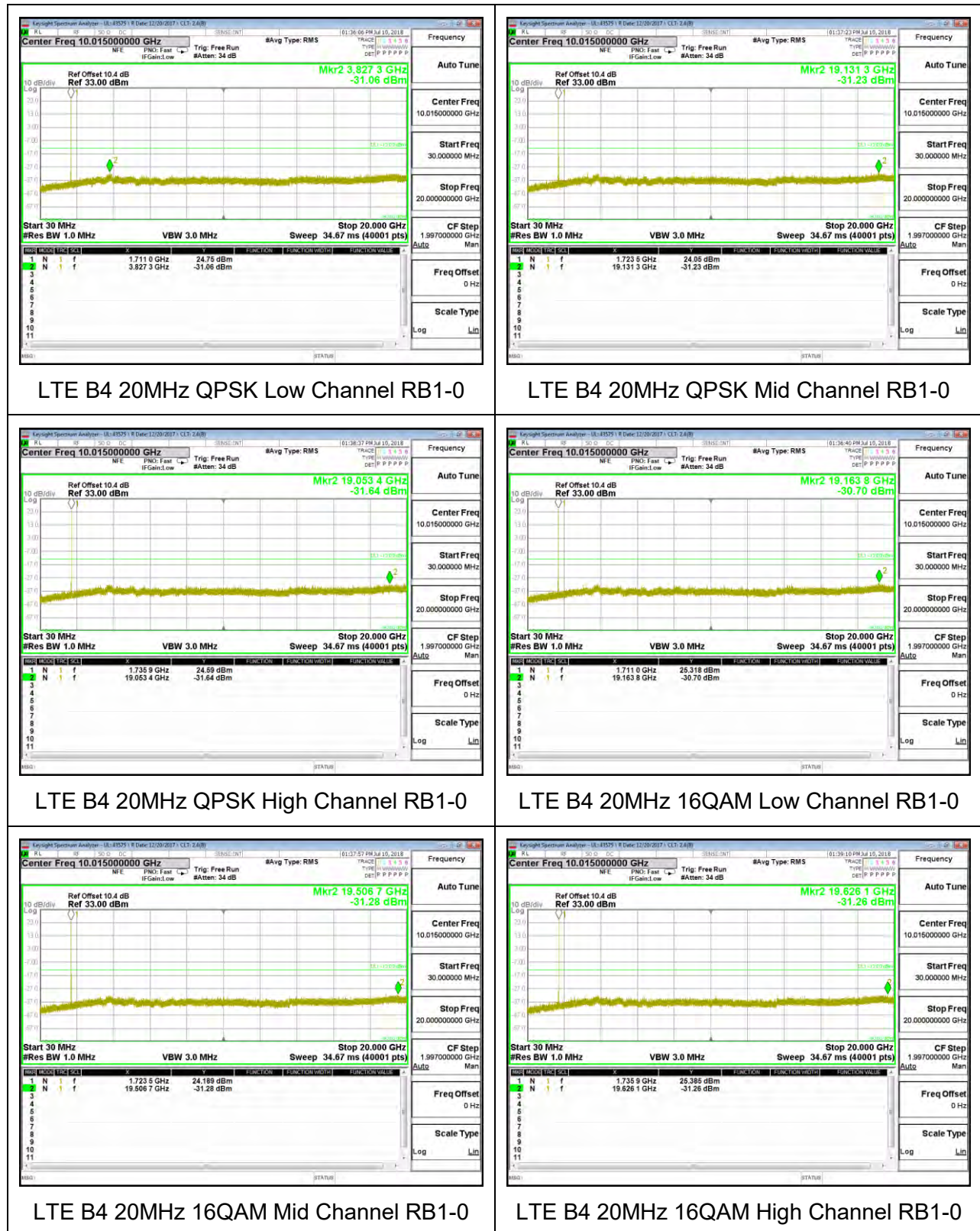
LTE B4 15MHz QPSK Mid Channel RB1-0

LTE B4 15MHz QPSK High Channel RB1-0

LTE B4 15MHz 16QAM Low Channel RB1-0

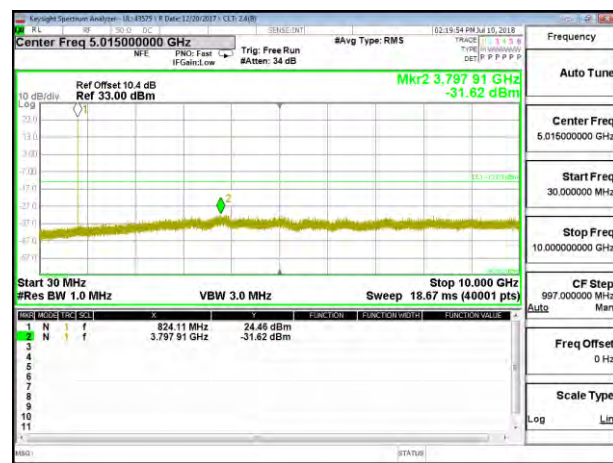
LTE B4 15MHz 16QAM Mid Channel RB1-0

LTE B4 15MHz 16QAM High Channel RB1-0

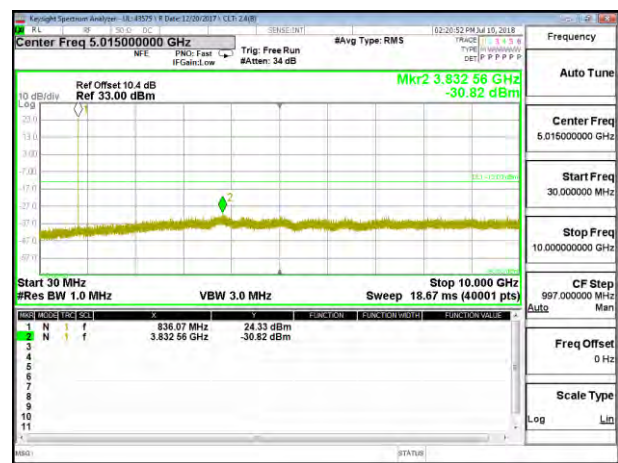




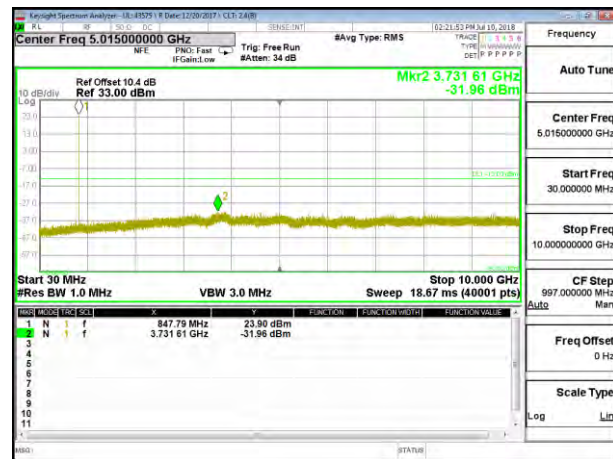
### 8.3.5. LTE BAND 5



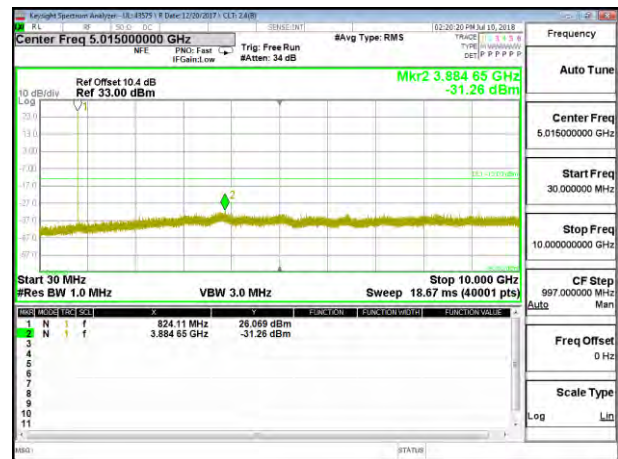
LTE B5 1.4MHz QPSK Low Channel RB1-0



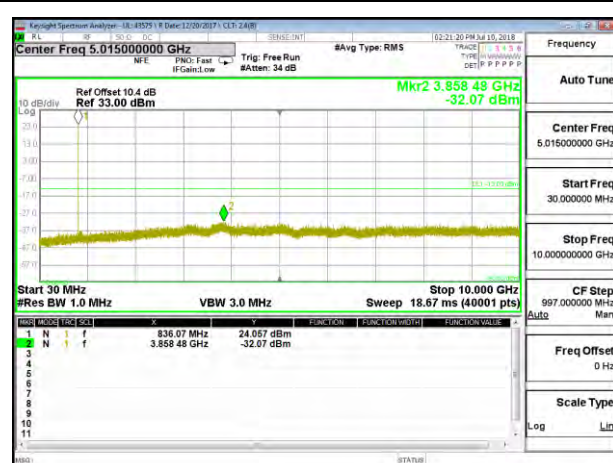
LTE B5 1.4MHz QPSK Mid Channel RB1-0



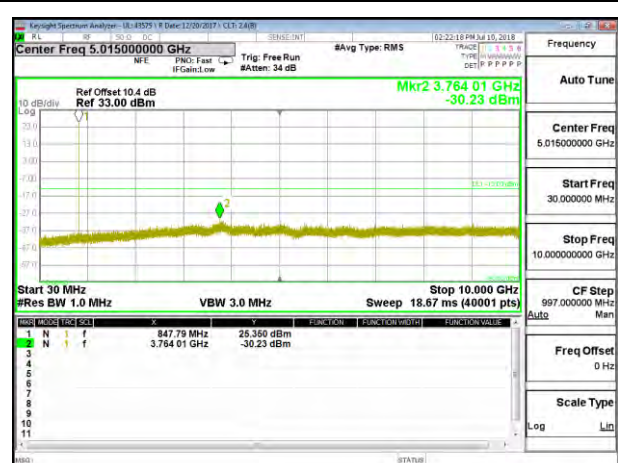
LTE B5 1.4MHz QPSK High Channel RB1-0



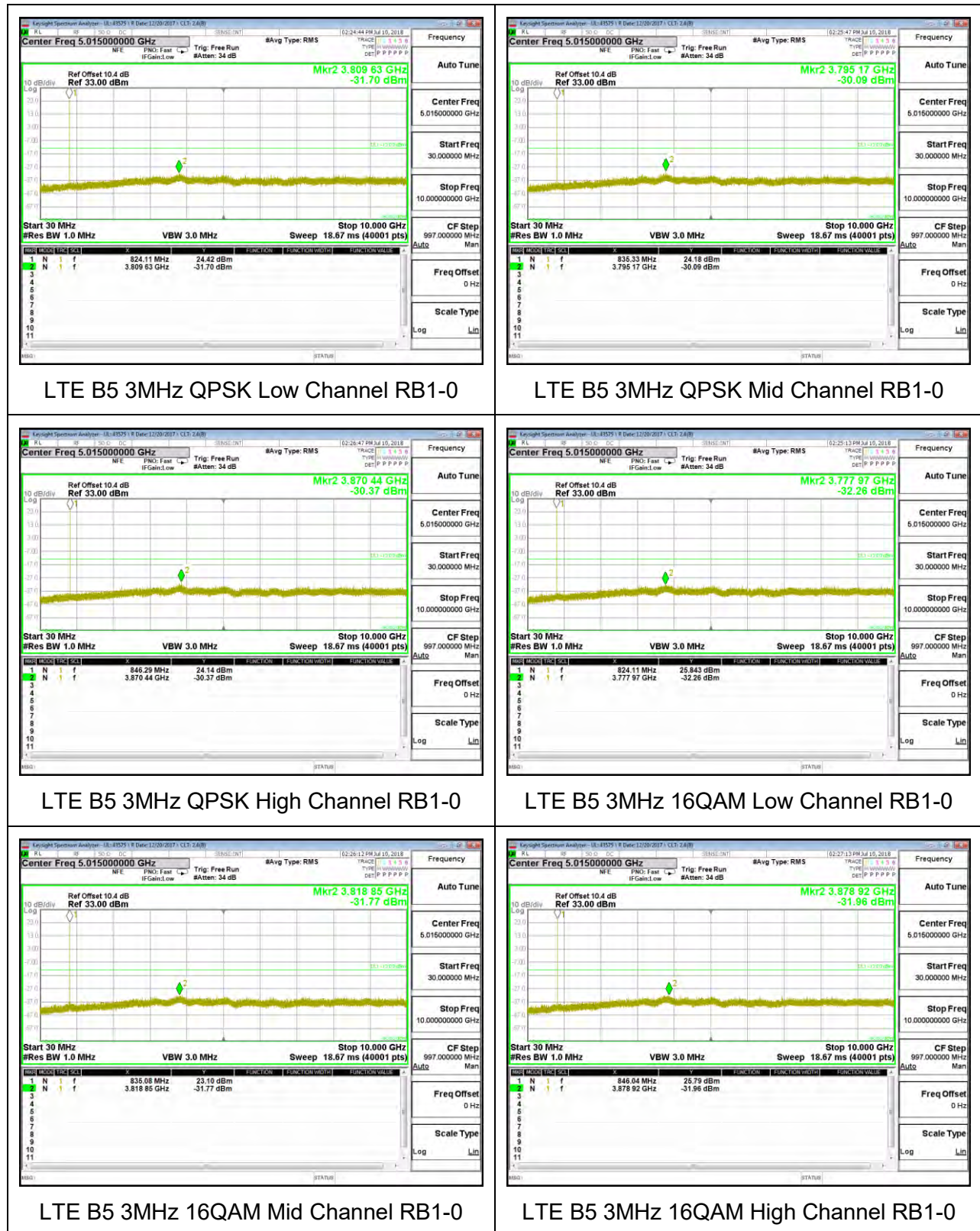
LTE B5 1.4MHz 16QAM Low Channel RB1-0



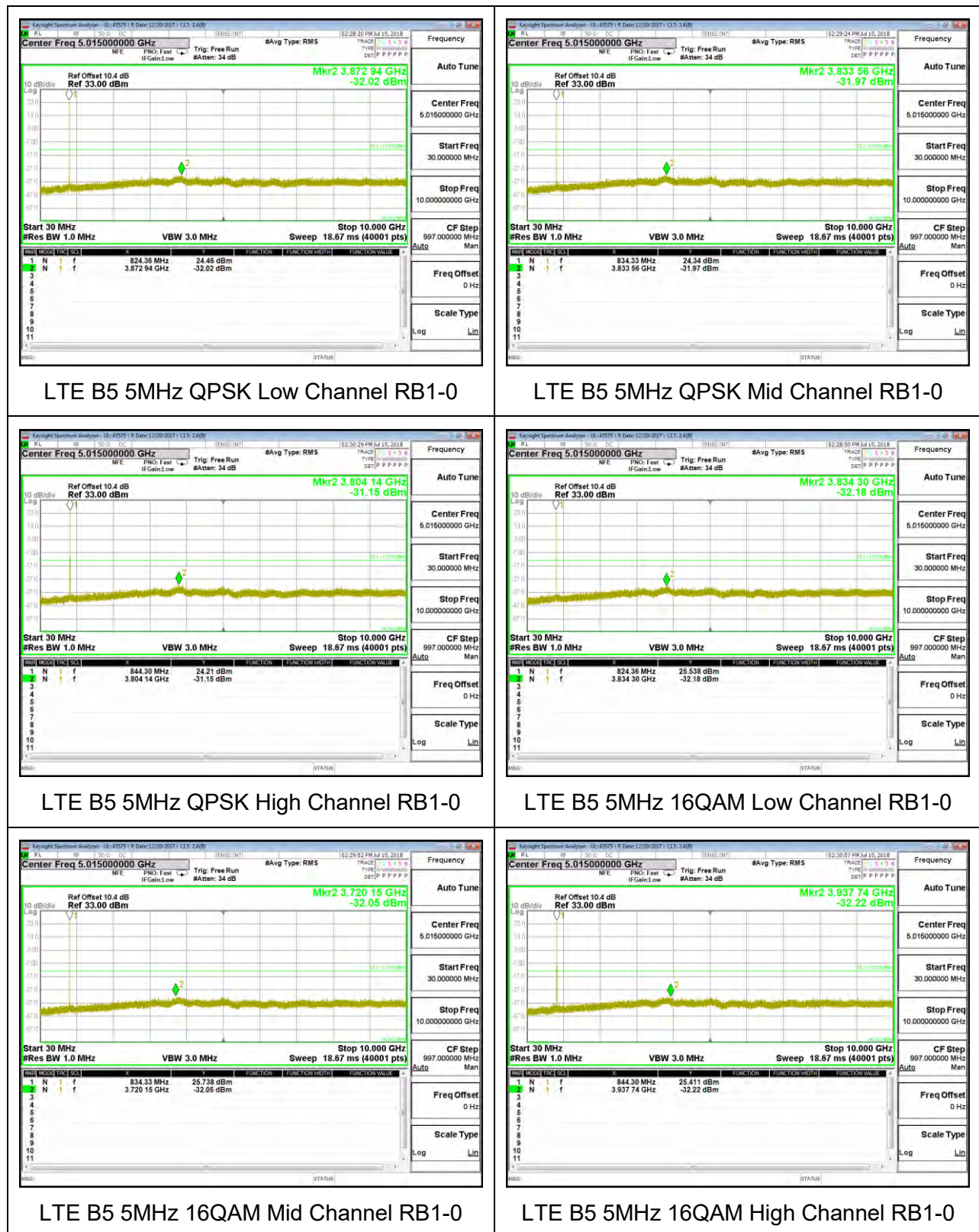
LTE B5 1.4MHz 16QAM Mid Channel RB1-0



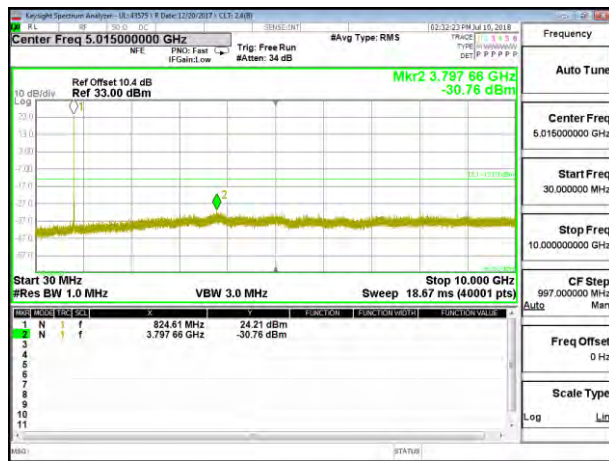
LTE B5 1.4MHz 16QAM High Channel RB1-0



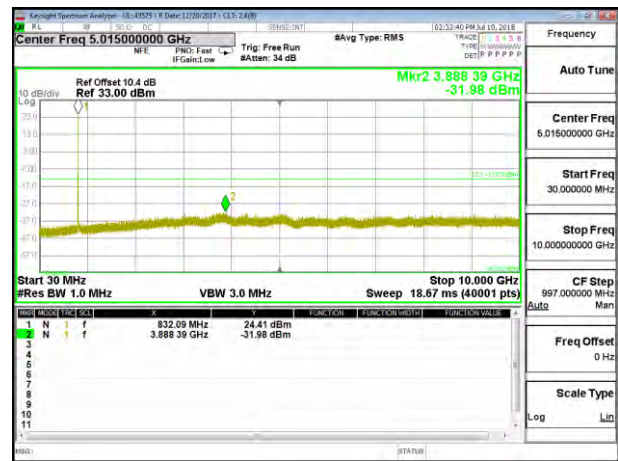




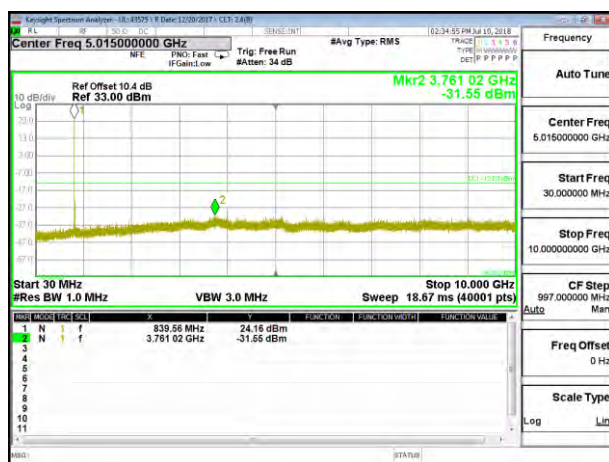




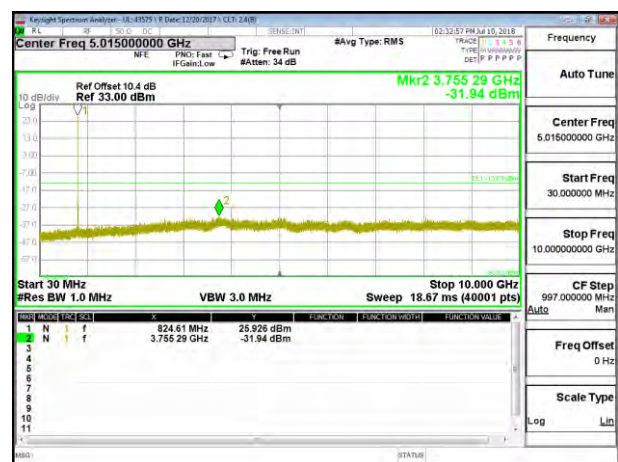
LTE B5 10MHz QPSK Low Channel RB1-0



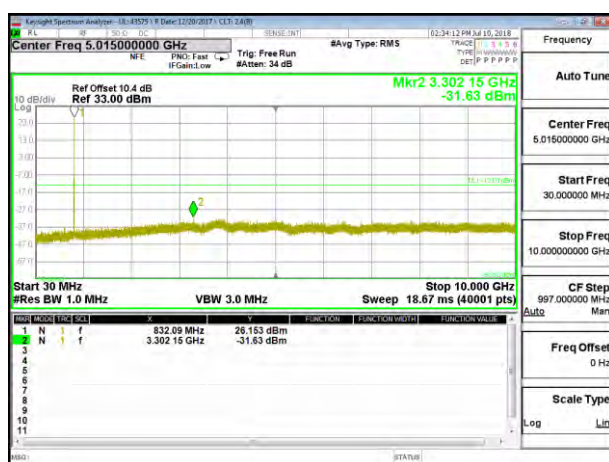
LTE B5 10MHz QPSK Mid Channel RB1-0



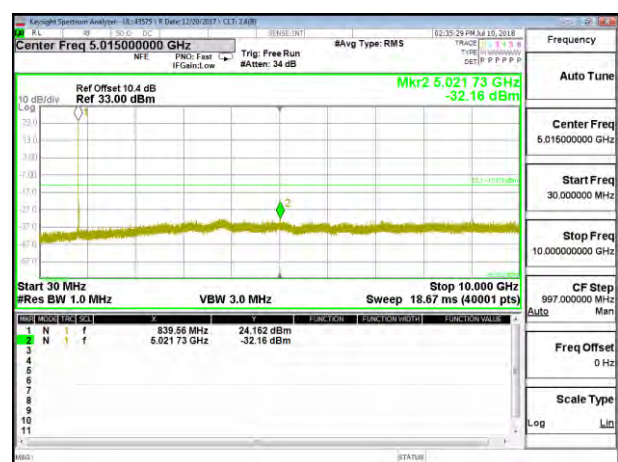
LTE B5 10MHz QPSK High Channel RB1-0



LTE B5 10MHz 16QAM Low Channel RB1-0



LTE B5 10MHz 16QAM Mid Channel RB1-0



LTE B5 10MHz 16QAM High Channel RB1-0