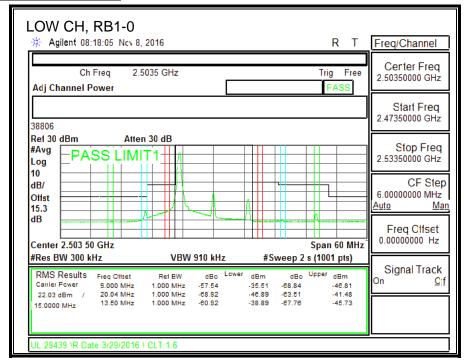
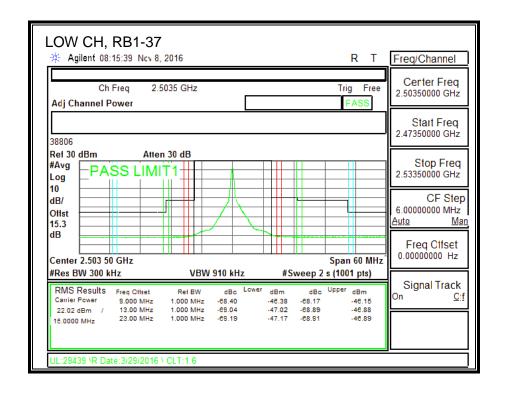
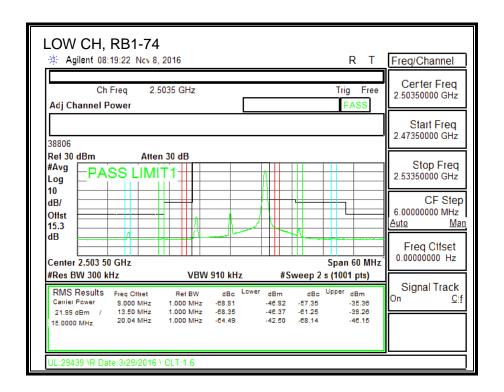
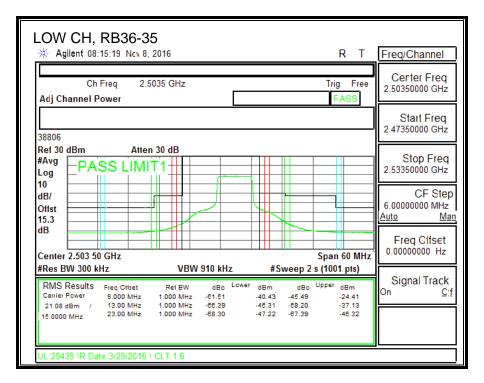


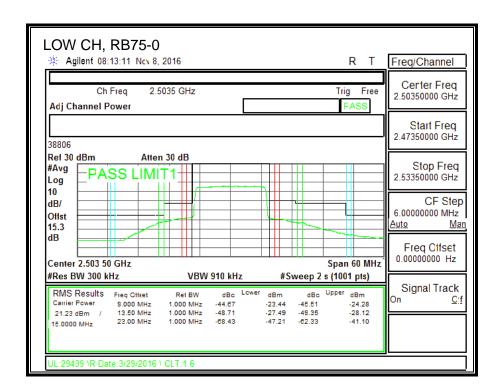
### LTE BAND 41 16QAM, (15 MHz)

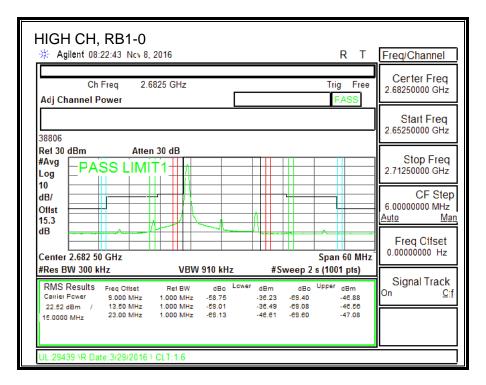


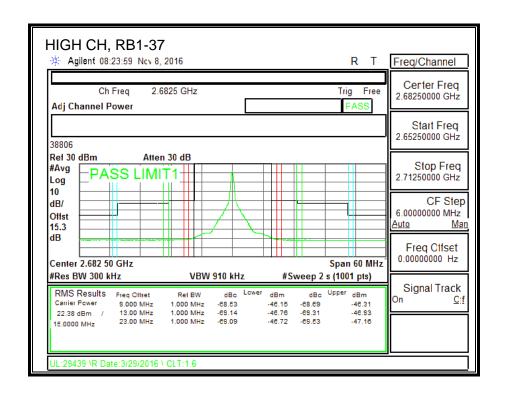


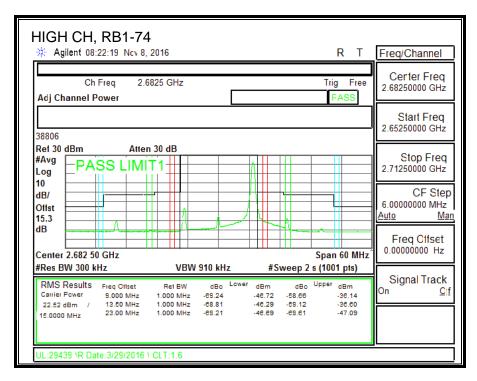


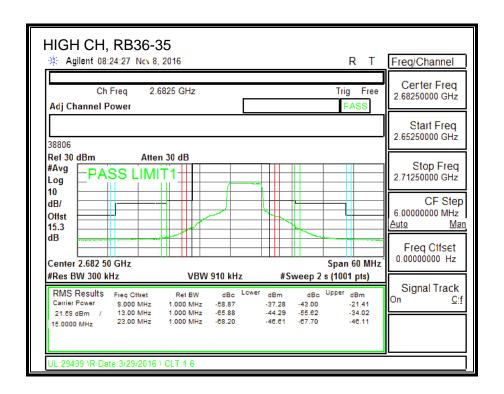


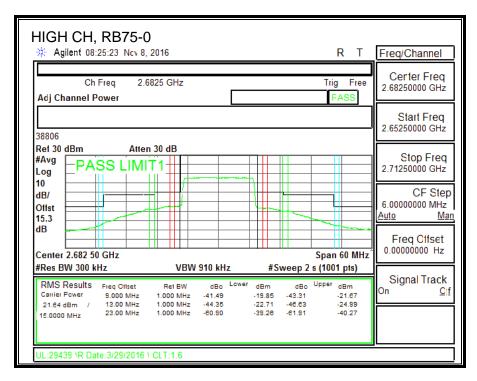




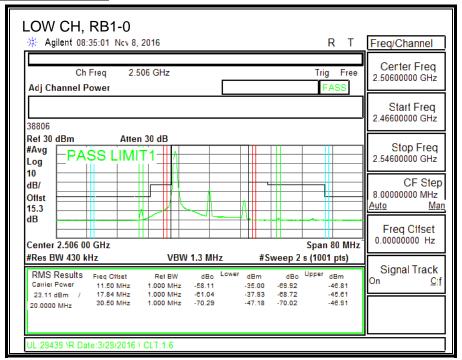


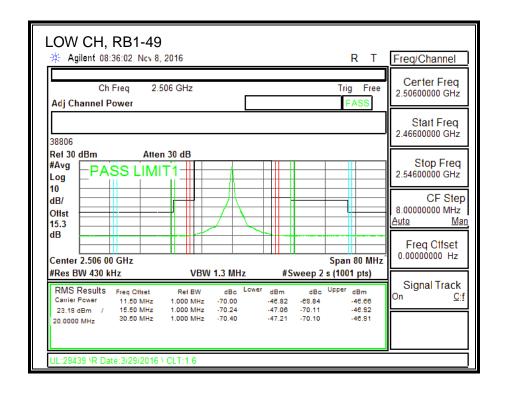


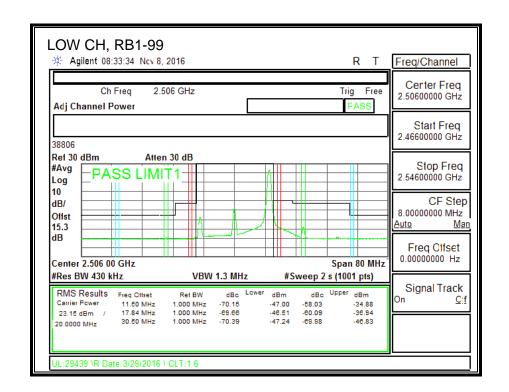


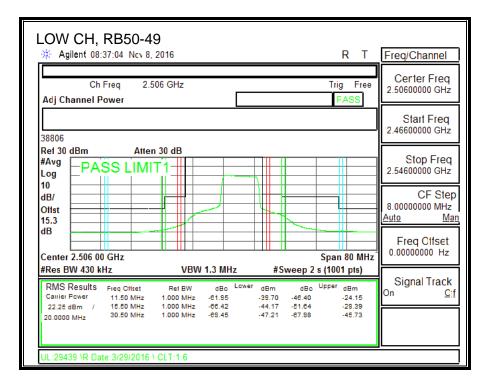


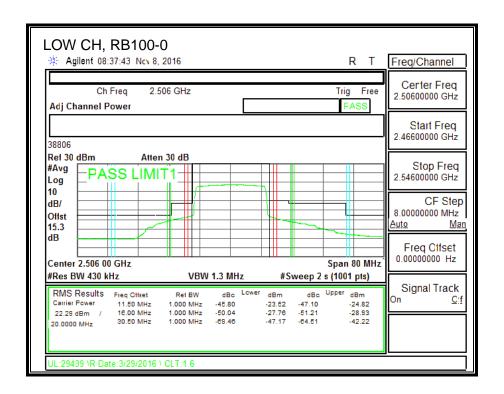
### LTE BAND 41 QPSK, (20 MHz)

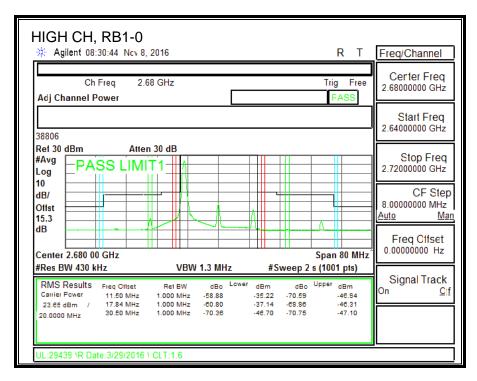


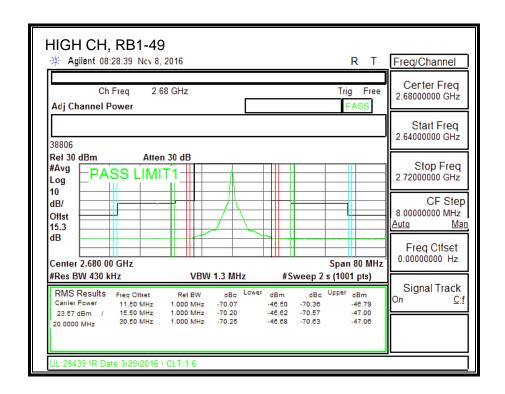


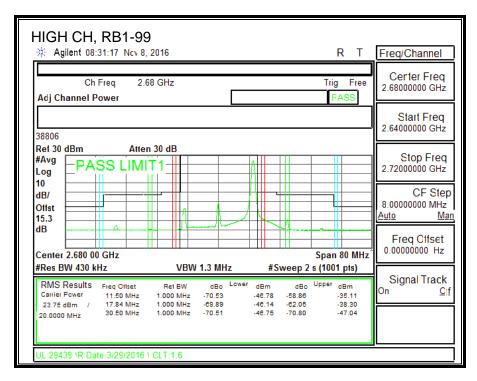


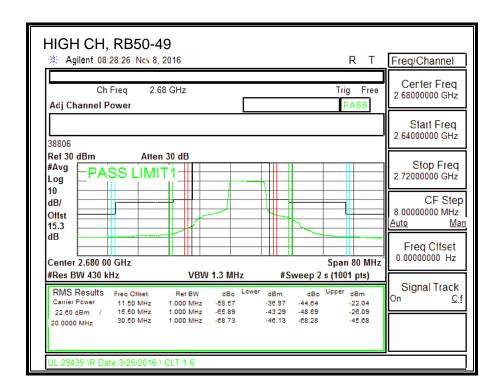


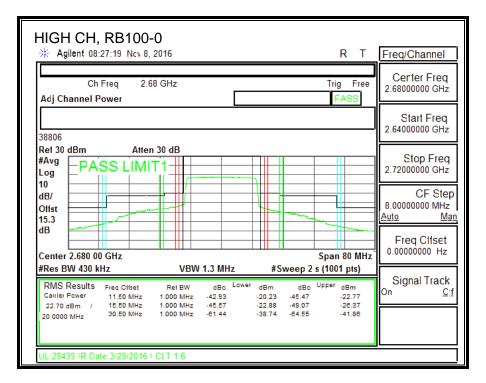




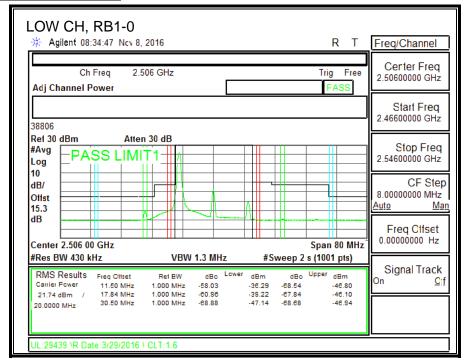


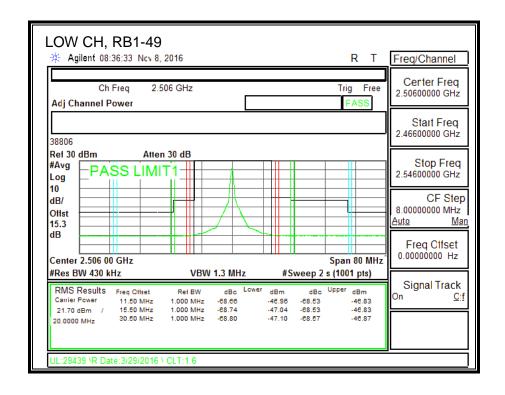


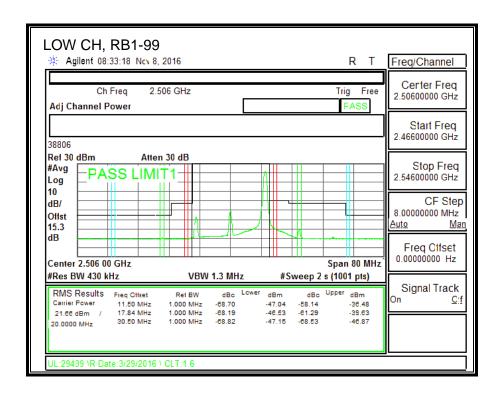


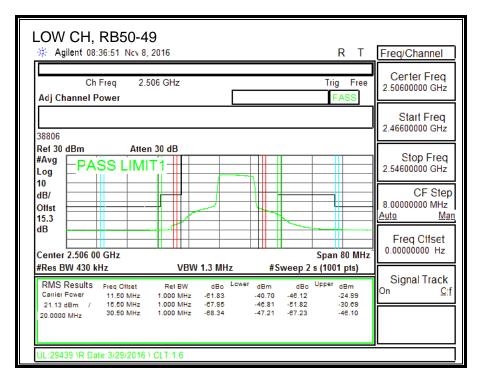


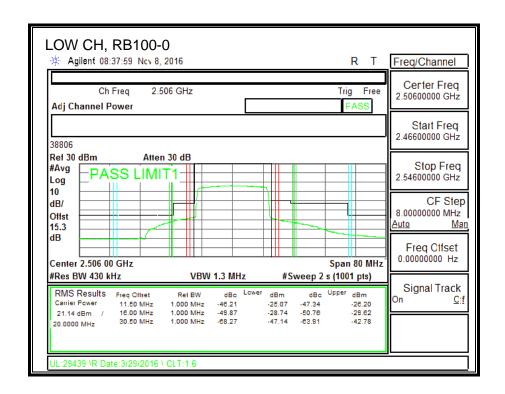
### LTE BAND 41 16QAM, (20 MHz)

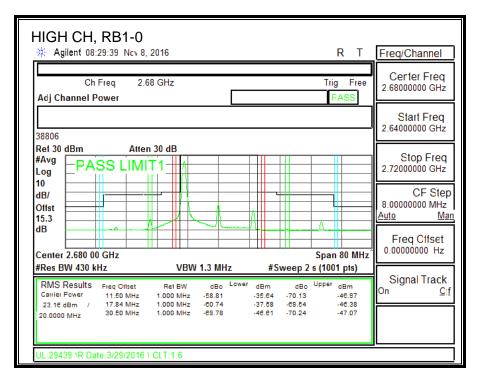


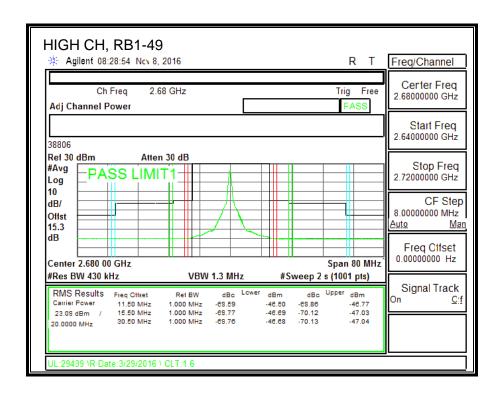


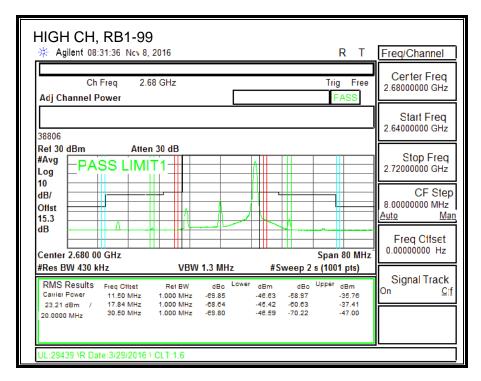


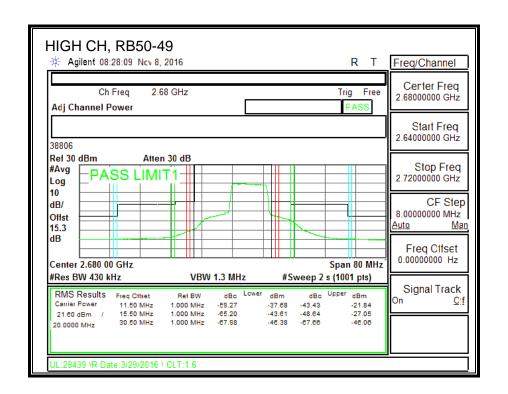


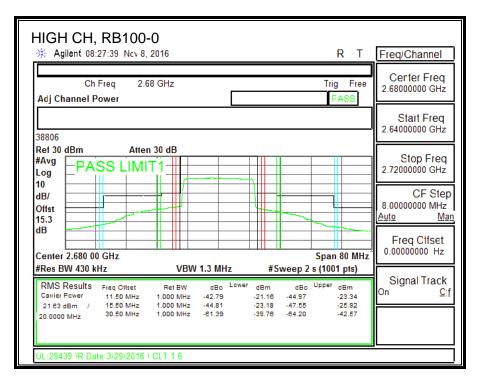












### 8.3. OUT OF BAND EMISSIONS

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53 and §90.691

#### **LIMITS**

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

For mobile and portable stations operating in the 2305-2315 MHz: by a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

#### **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)

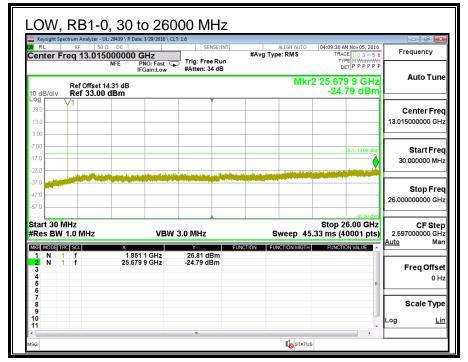
### **MODES TESTED**

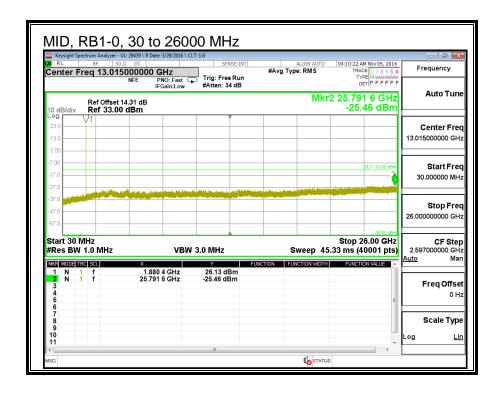
- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 41

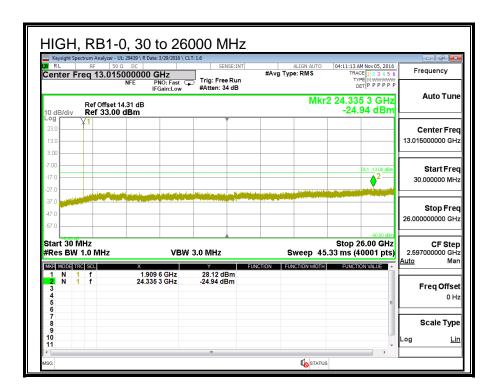
#### **RESULTS**

#### 8.3.1. LTE BAND 2

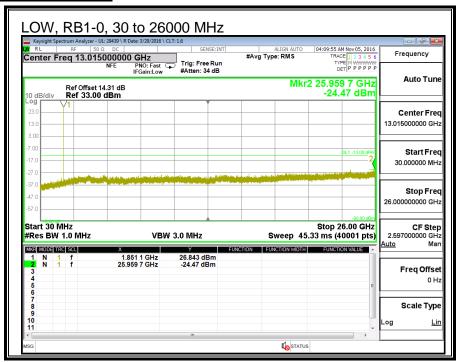
## LTE BAND 2 QPSK, (1.4 MHz)

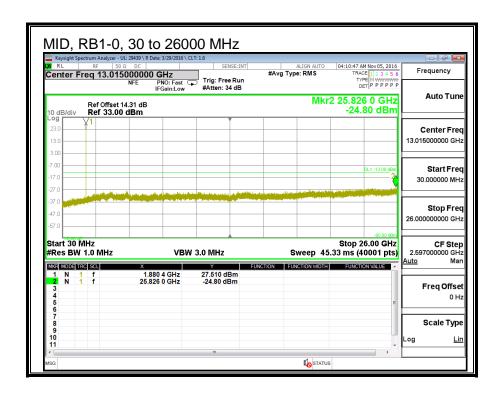


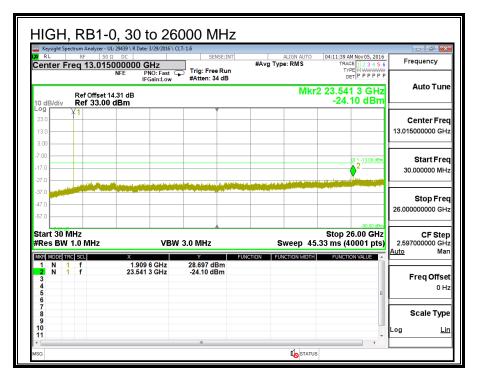




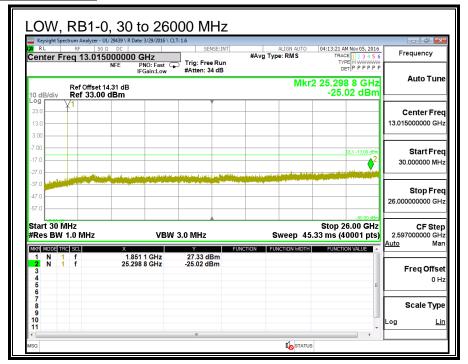
### LTE BAND 2 16QAM, (1.4 MHz)

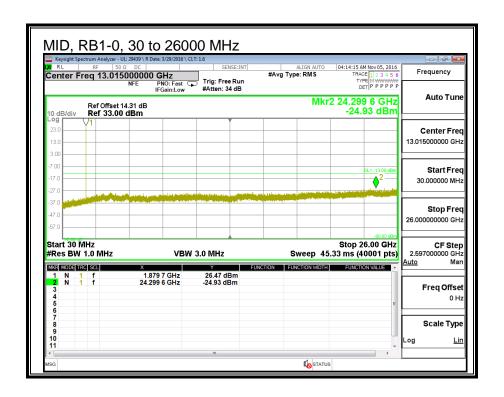


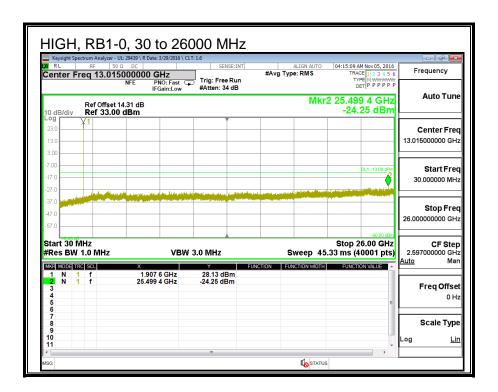




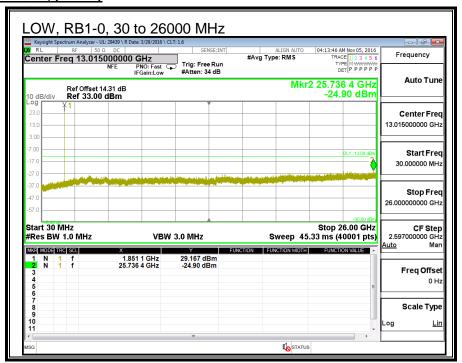
## LTE BAND 2 QPSK, (3 MHz)

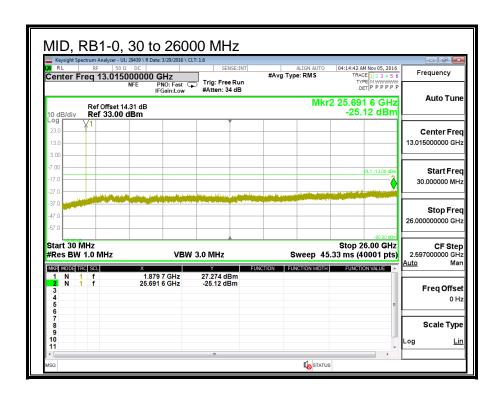


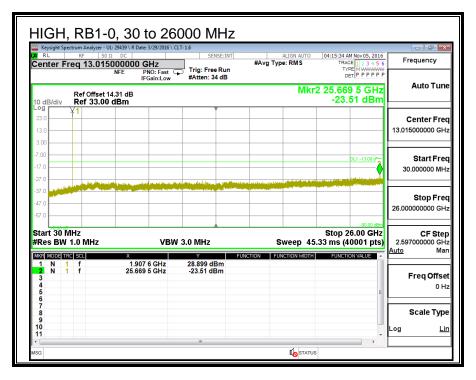




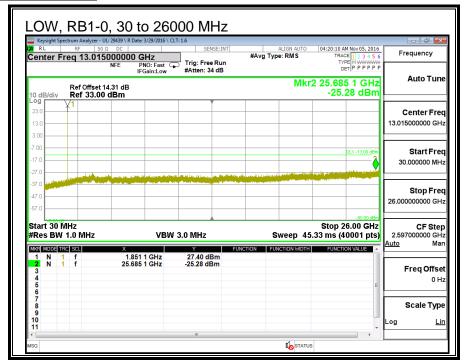
### LTE BAND 2 16QAM, (3 MHz)

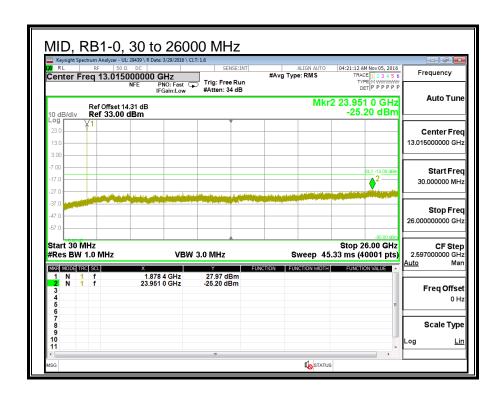


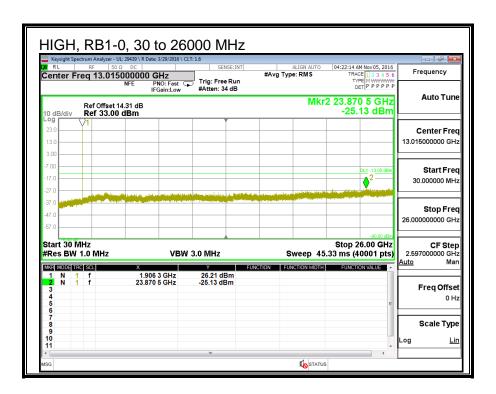




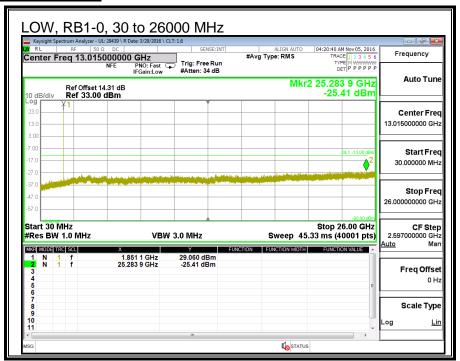
## LTE BAND 2 QPSK, (5 MHz)

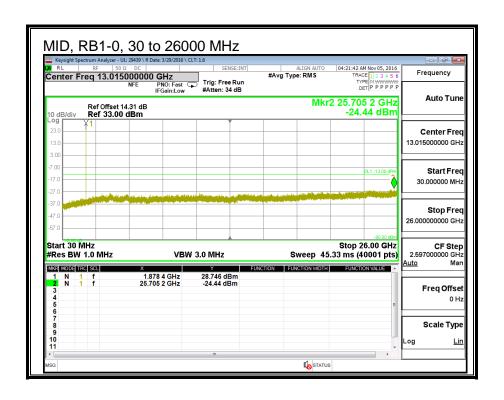


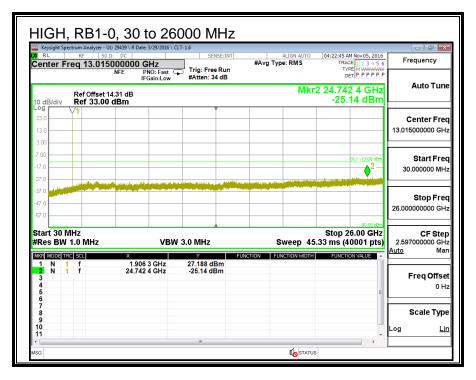




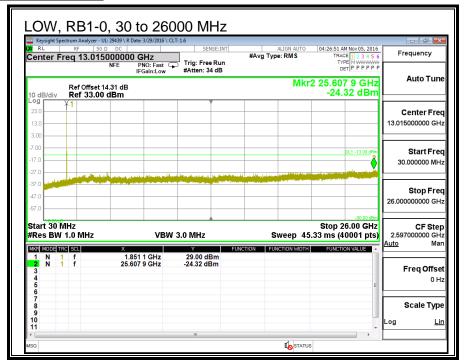
# LTE BAND 2 16QAM, (5 MHz)

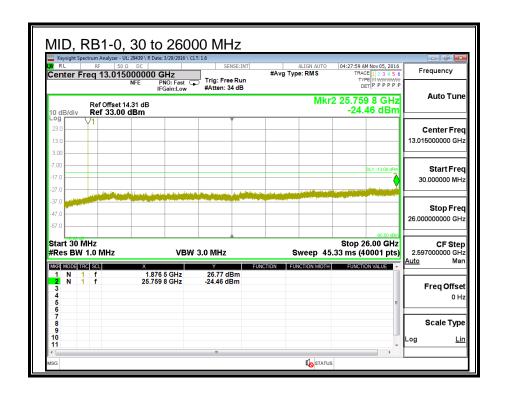


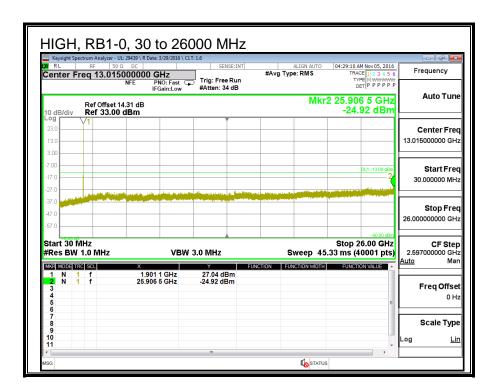




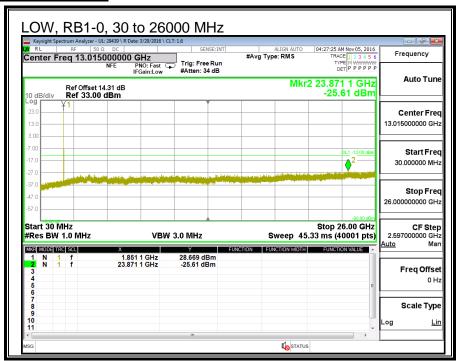
## LTE BAND 2 QPSK, (10 MHz)

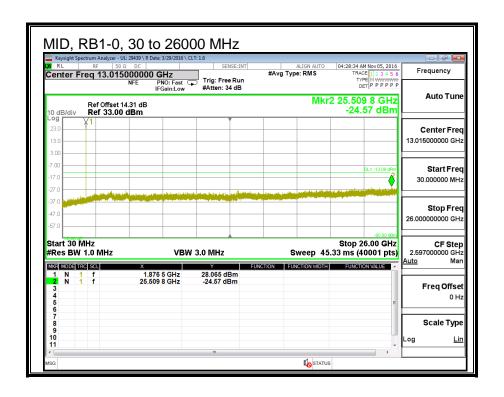


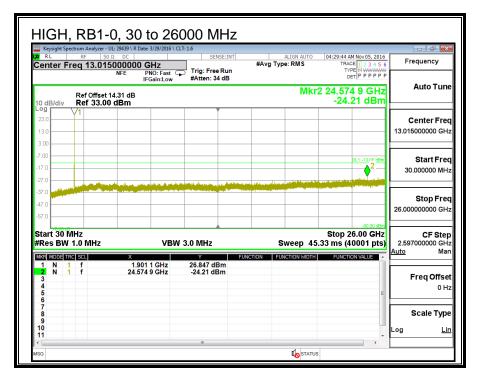




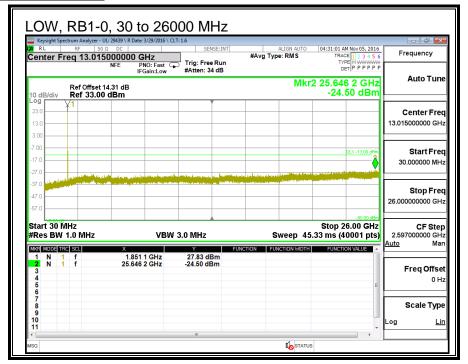
# LTE BAND 2 16QAM, (10 MHz)

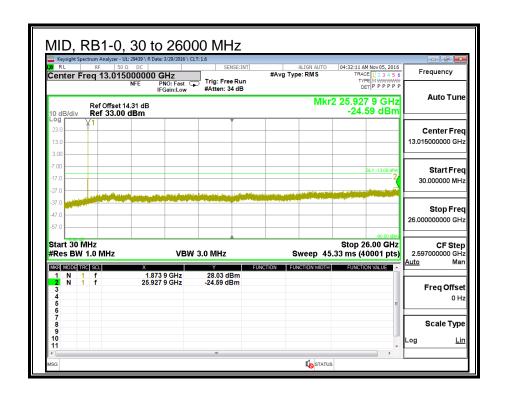


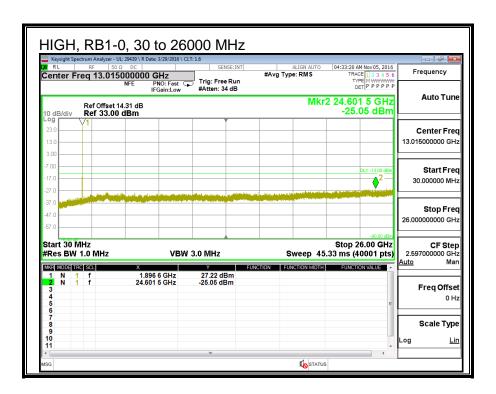




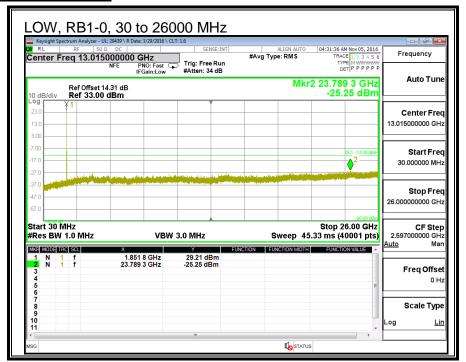
## LTE BAND 2 QPSK, (15 MHz)

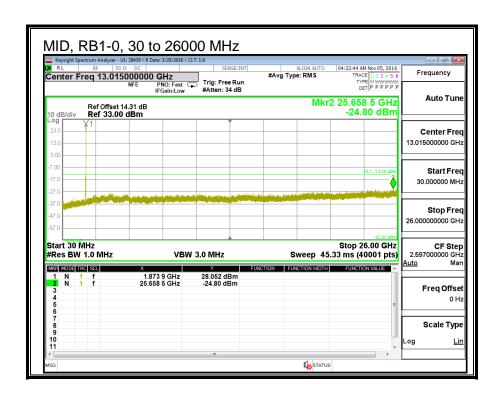


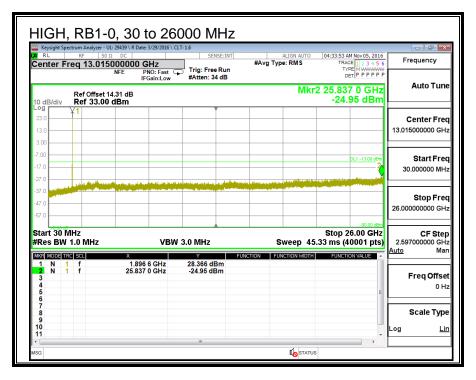




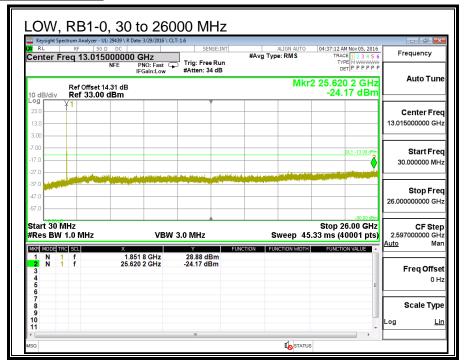
### LTE BAND 2 16QAM, (15 MHz)

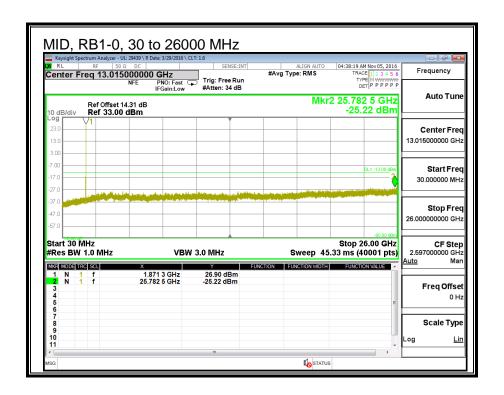


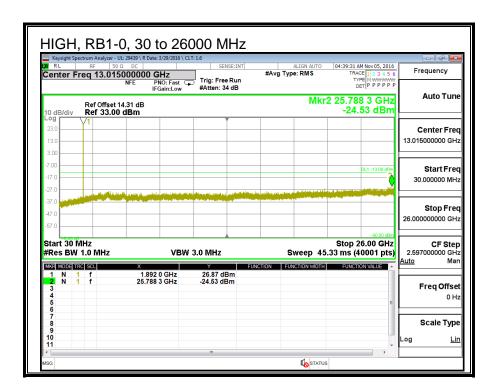




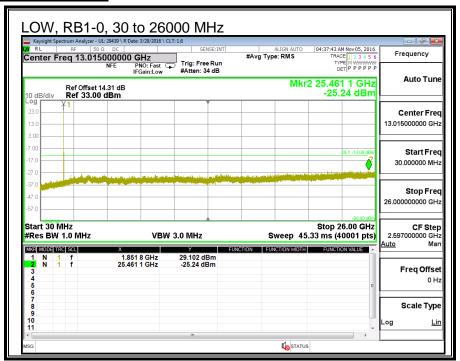
## LTE BAND 2 QPSK, (20 MHz)

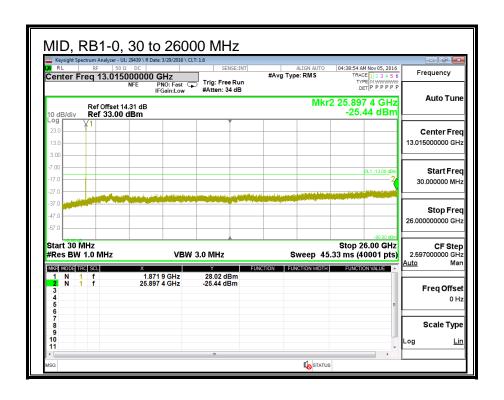


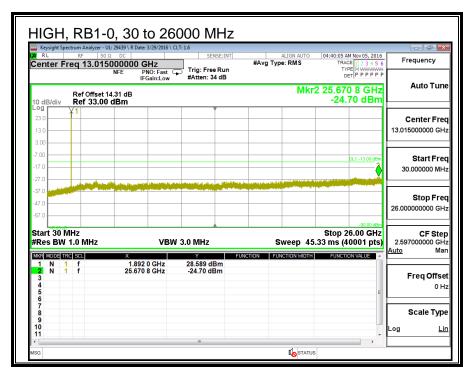




# LTE BAND 2 16QAM, (20 MHz)

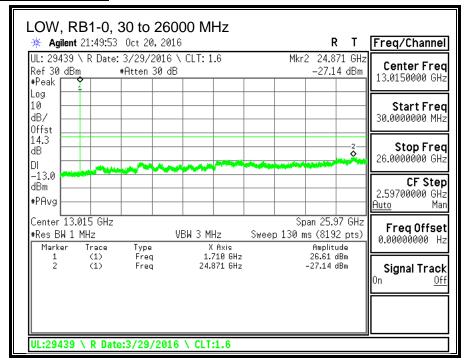


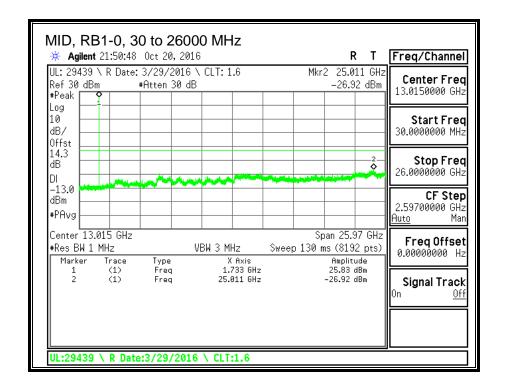


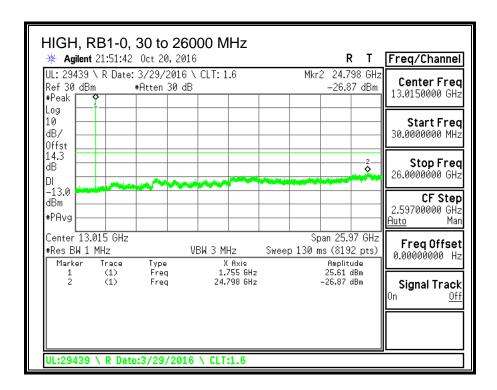


#### 8.3.2. LTE BAND 4

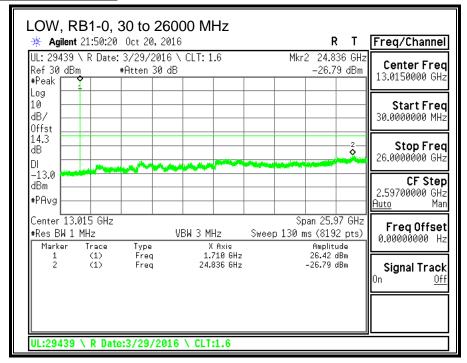
### LTE BAND 4 QPSK, (1.4 MHz)

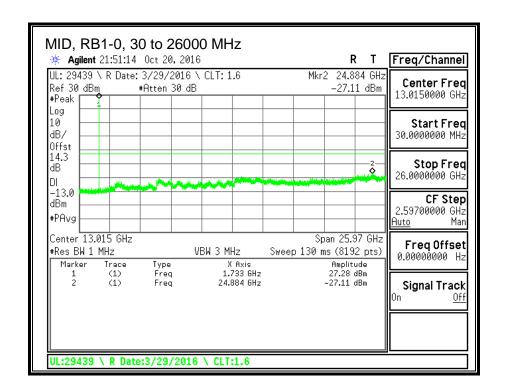


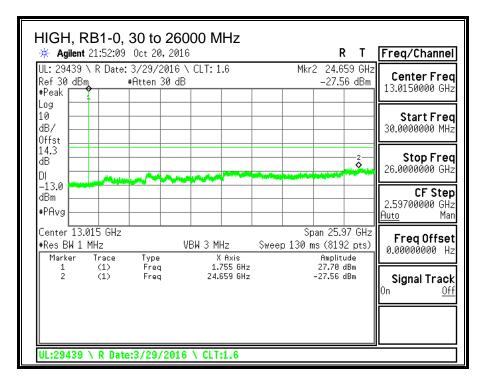




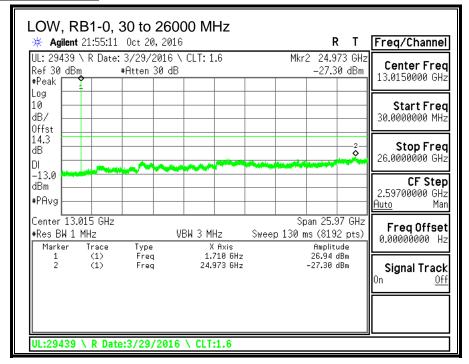
## **LTE BAND 4 16QAM, (1.4 MHz)**

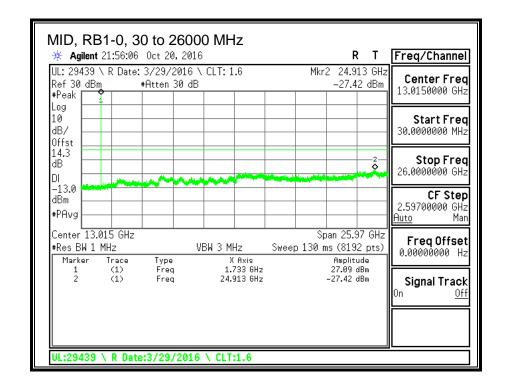


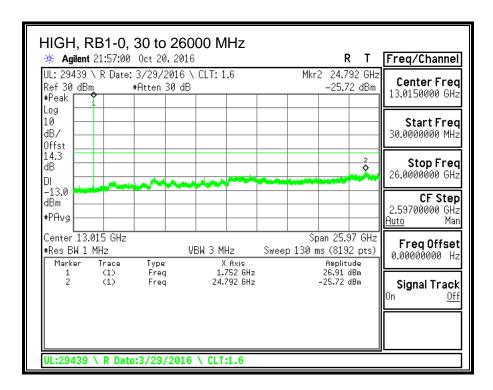




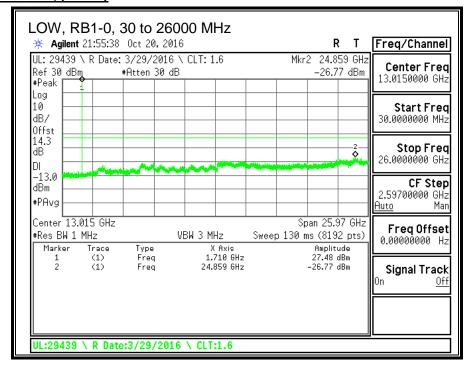
## LTE BAND 4 QPSK, (3 MHz)

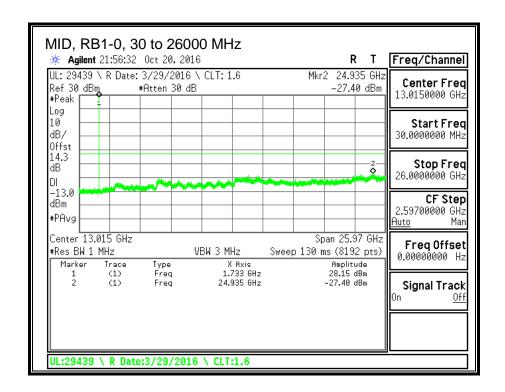


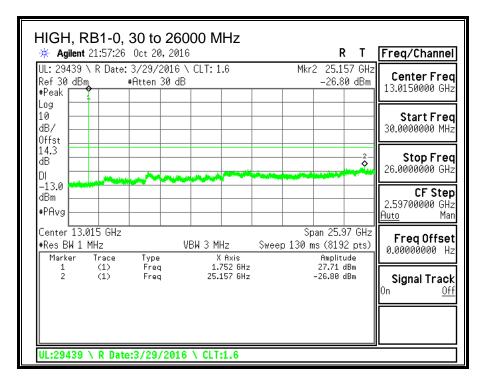




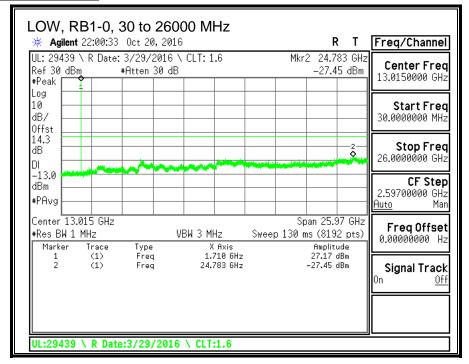
#### LTE BAND 4 16QAM, (3 MHz)

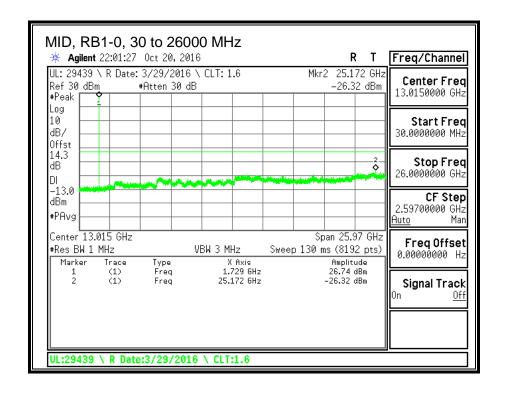


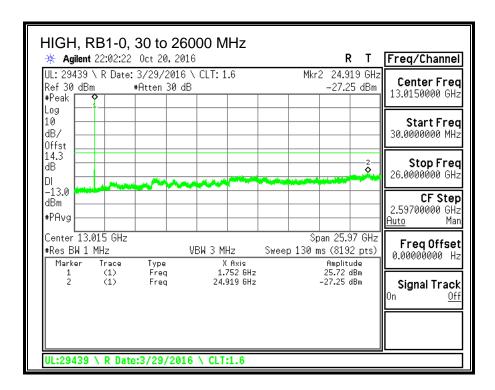




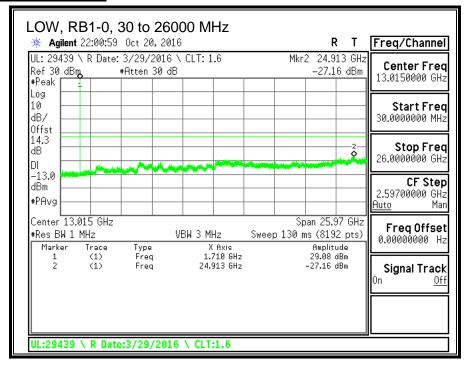
## LTE BAND 4 QPSK, (5 MHz)

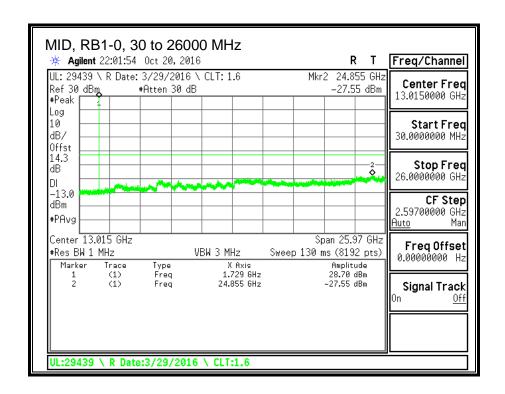


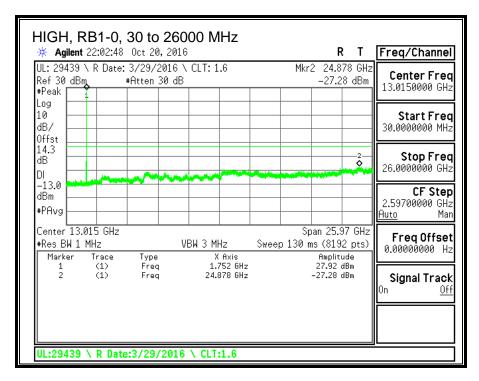




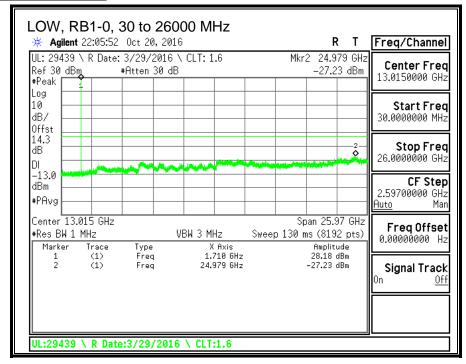
### LTE BAND 4 16QAM, (5 MHz)

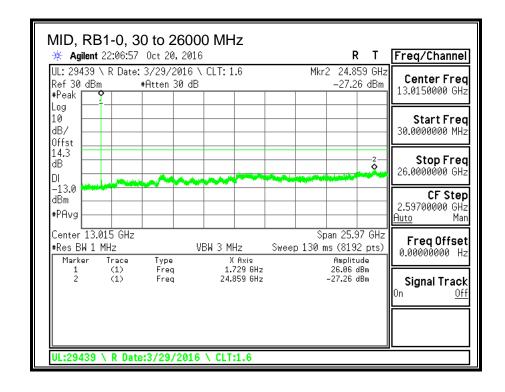


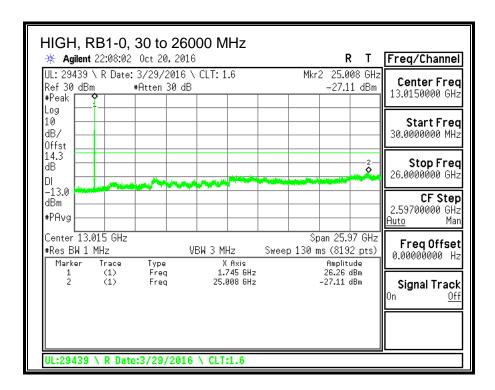




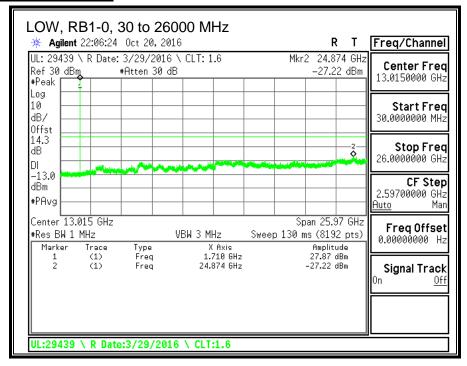
## LTE BAND 4 QPSK, (10 MHz)

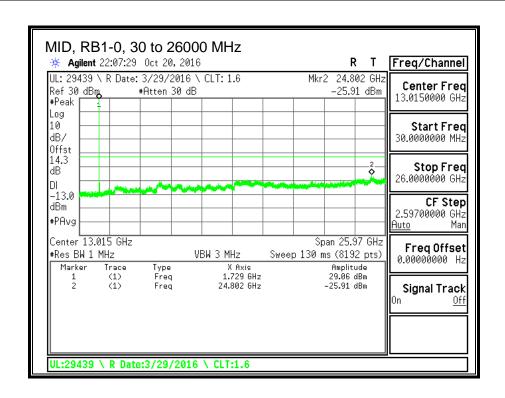


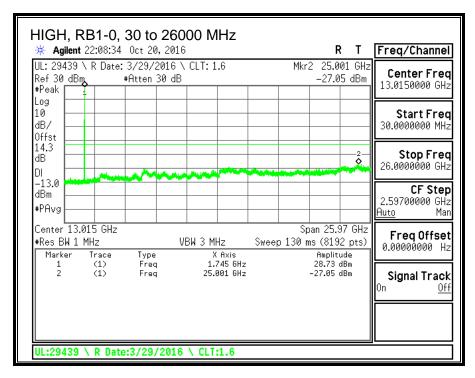




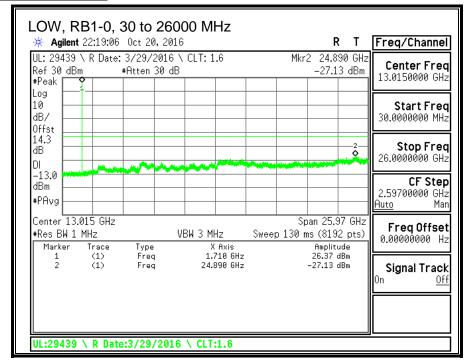
### LTE BAND 4 16QAM, (10 MHz)

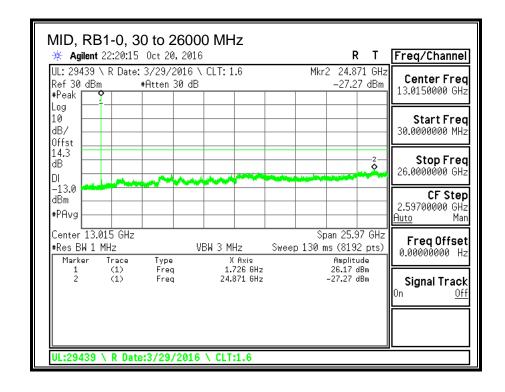


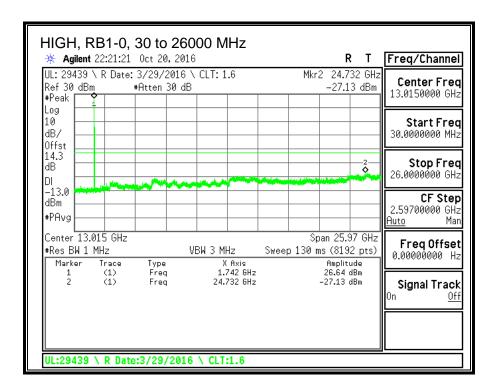




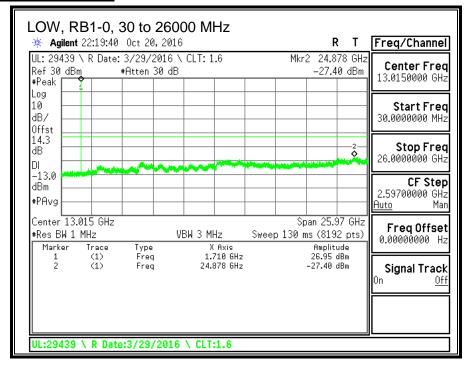
## LTE BAND 4 QPSK, (15 MHz)

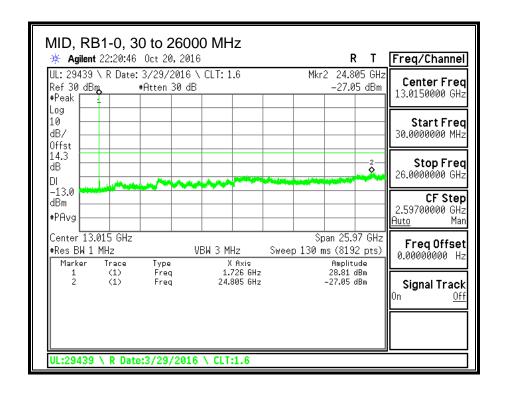


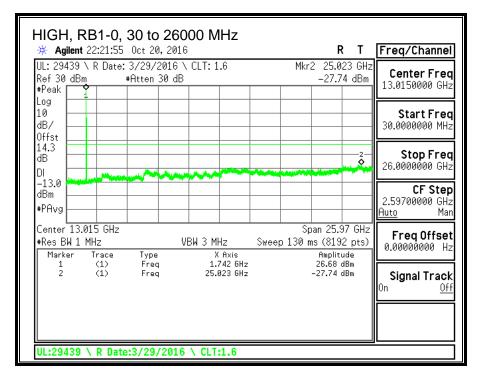




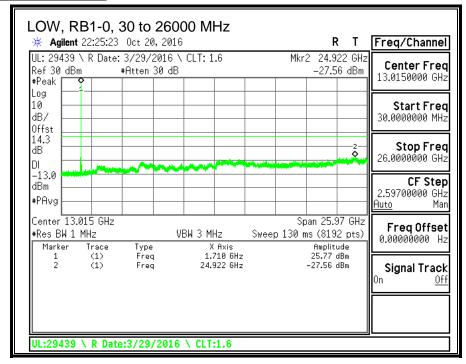
### **LTE BAND 4 16QAM, (15 MHz)**

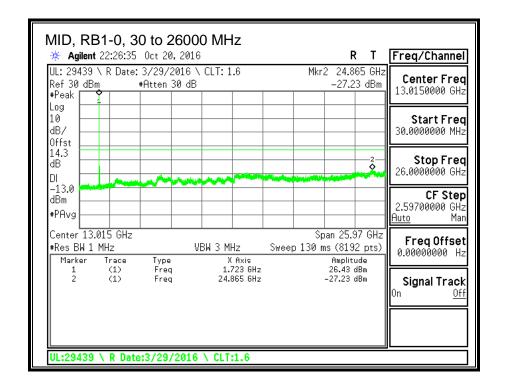


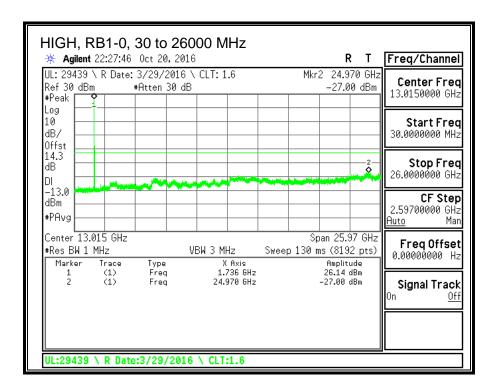




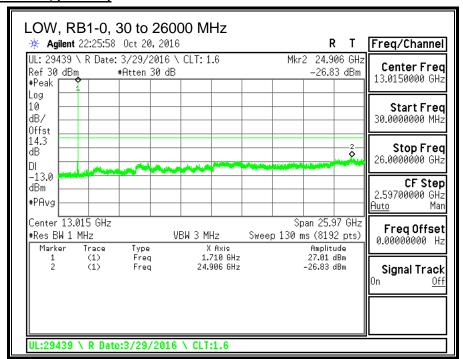
## LTE BAND 4 QPSK, (20 MHz)

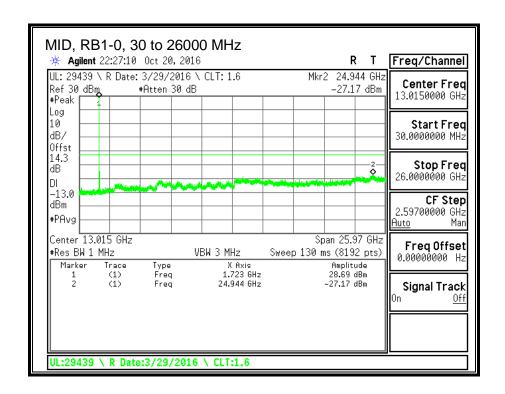


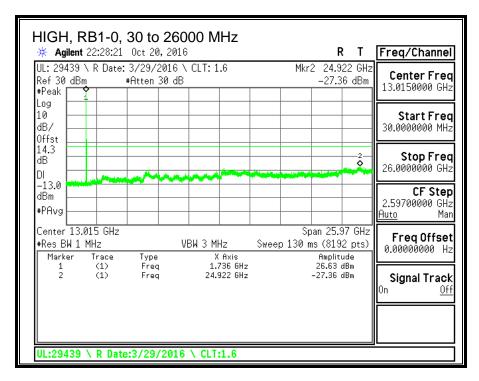




### LTE BAND 4 16QAM, (20 MHz)

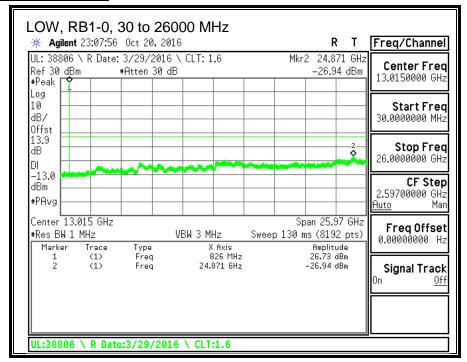


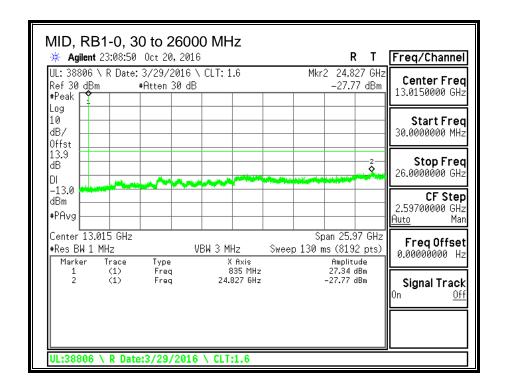


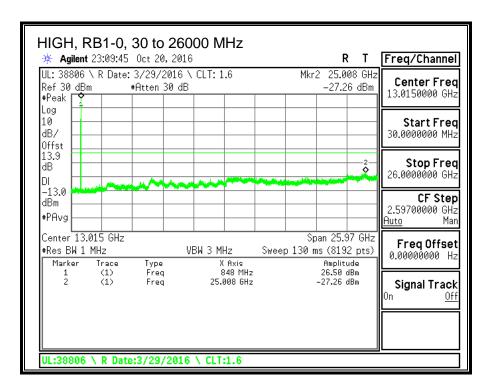


### 8.3.3. LTE BAND 5

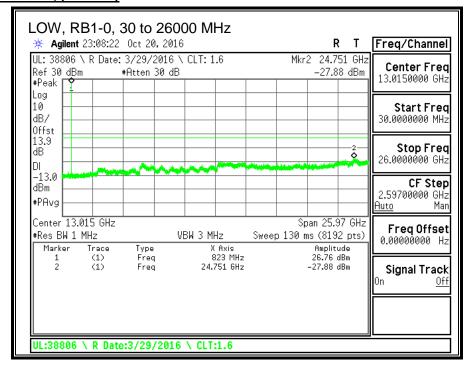
## LTE BAND 5 QPSK, (1.4 MHz)

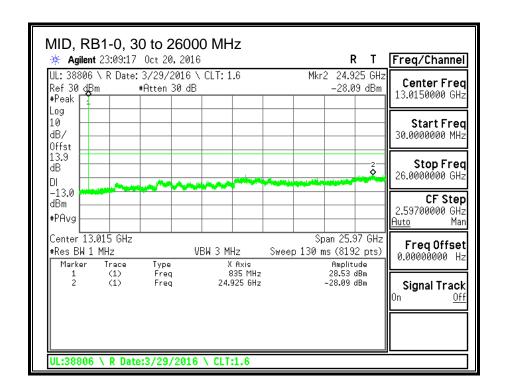


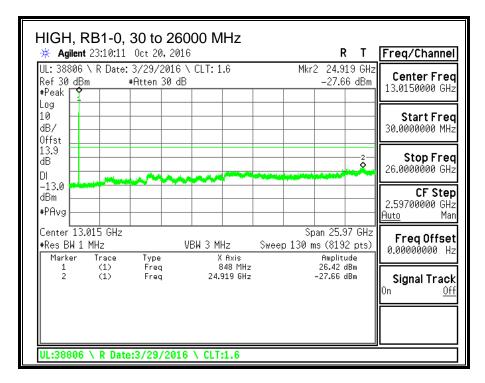




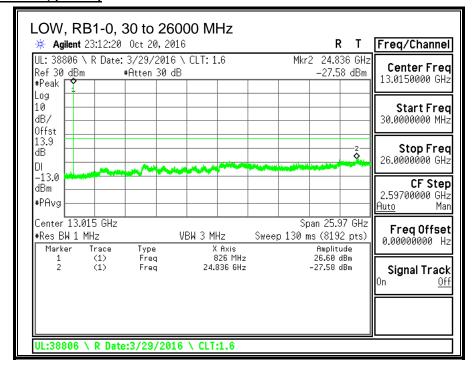
#### LTE BAND 5 16QAM, (1.4 MHz)

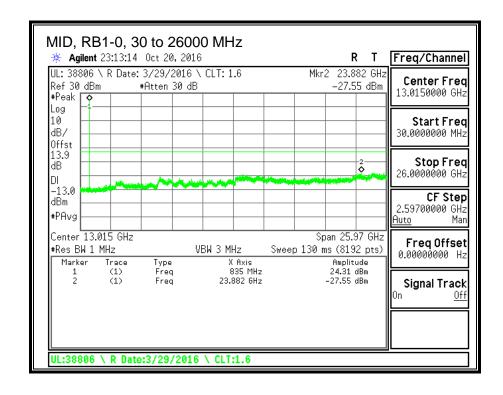


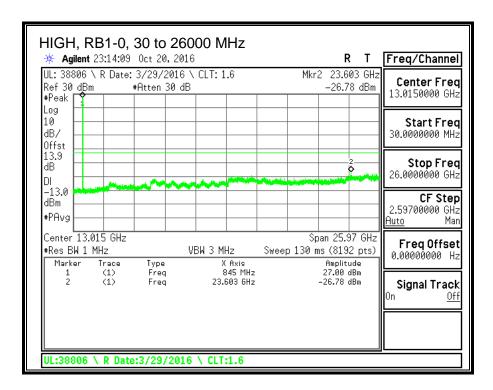




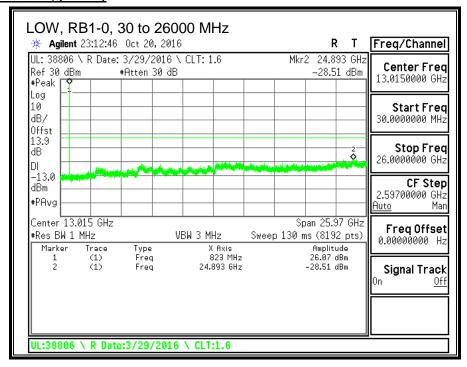
## LTE BAND 5 QPSK, (3 MHz)

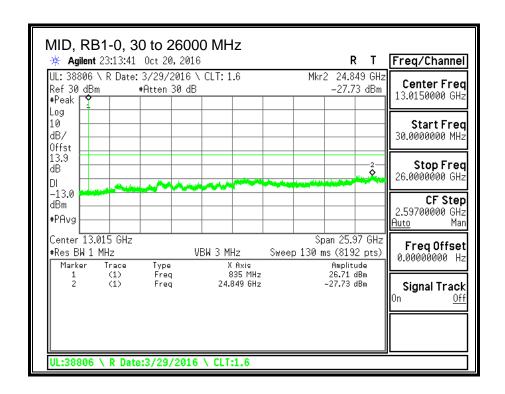


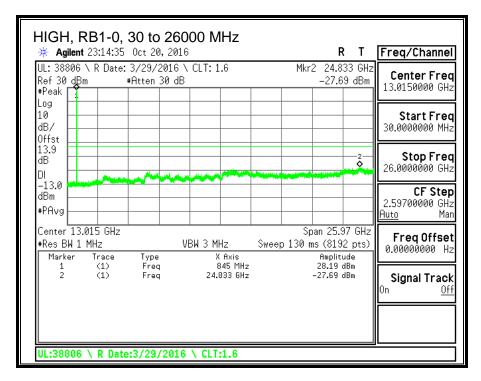




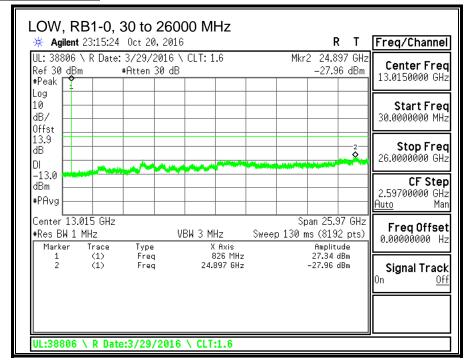
#### LTE BAND 5 16QAM, (3 MHz)

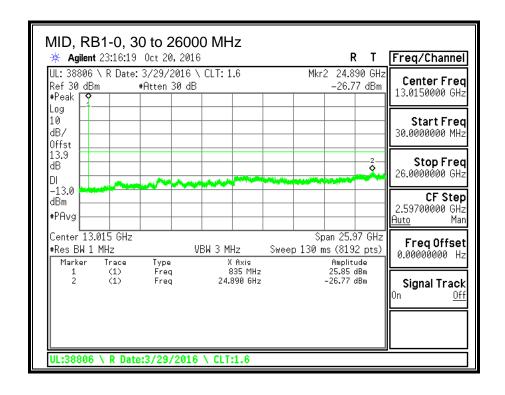


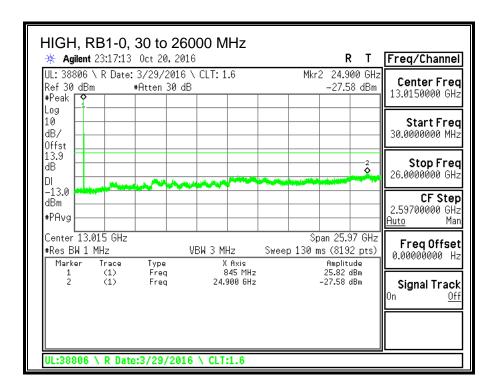




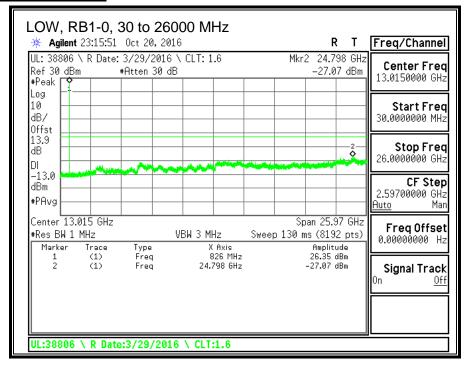
## LTE BAND 5 QPSK, (5 MHz)

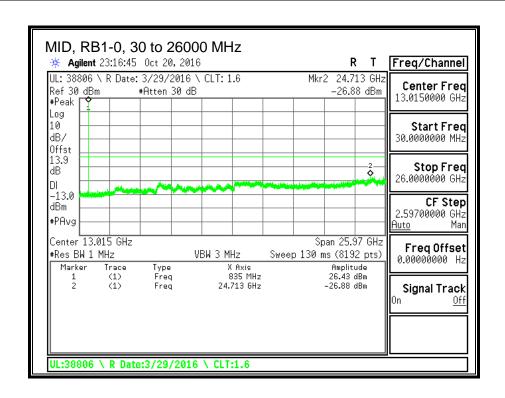


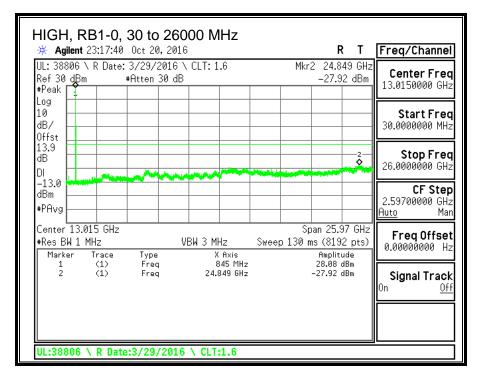




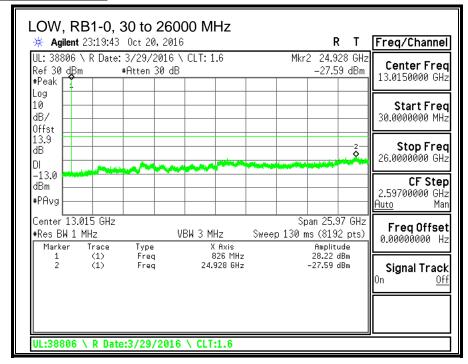
### LTE BAND 5 16QAM, (5 MHz)

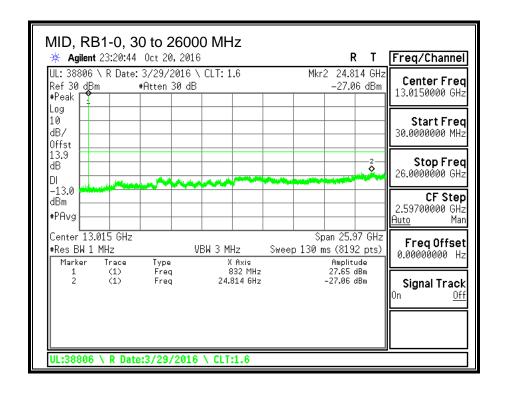


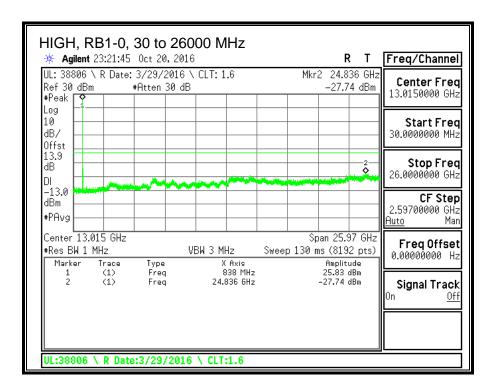




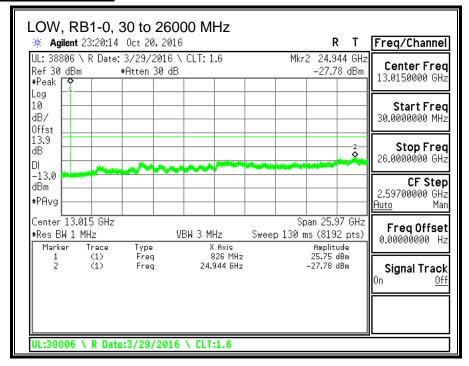
## LTE BAND 5 QPSK, (10 MHz)

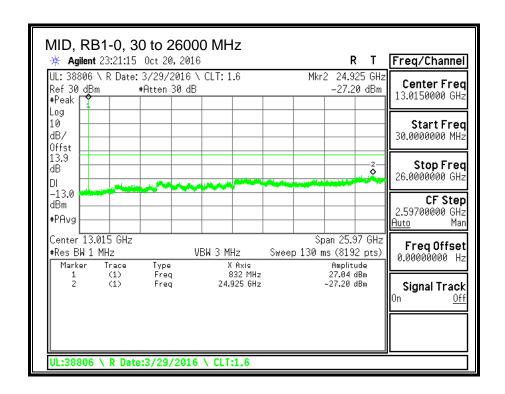


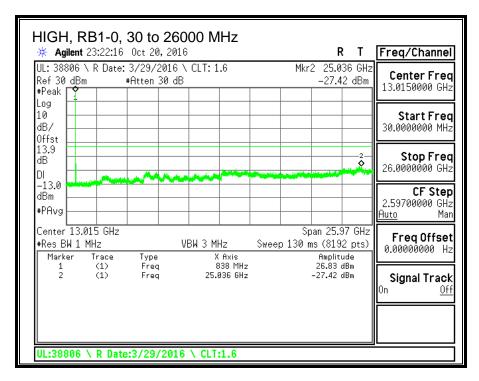




### LTE BAND 5 16QAM, (10 MHz)

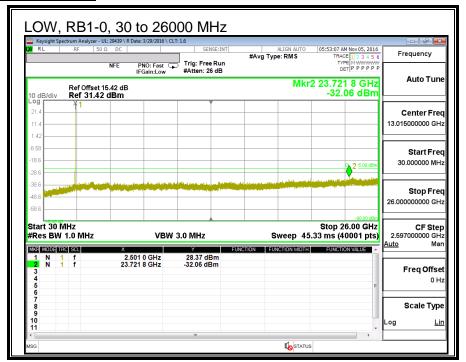


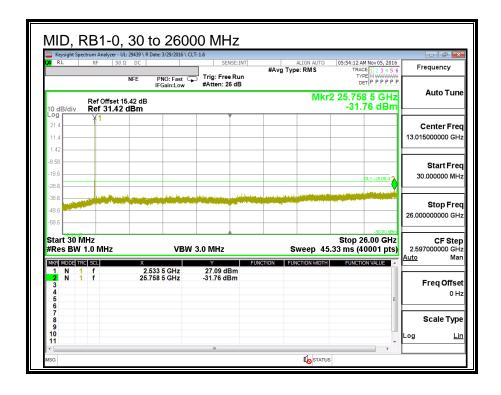


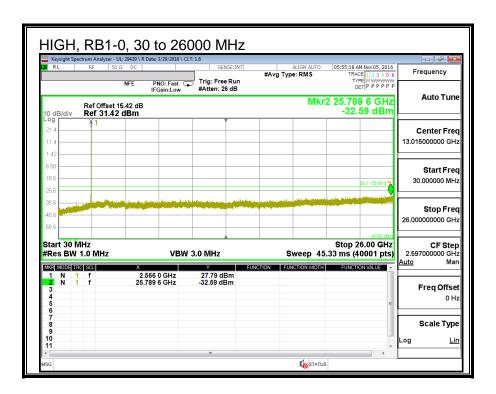


### 8.3.4. LTE BAND 7

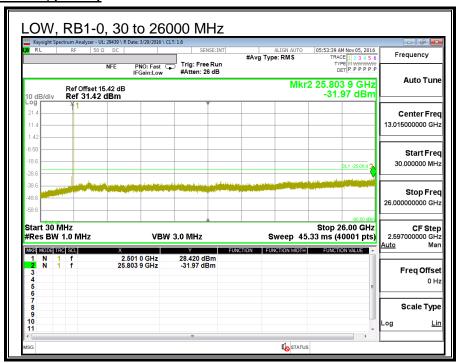
## LTE BAND 7 QPSK, (5 MHz)

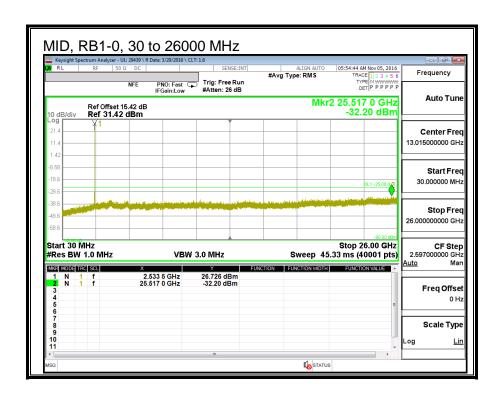


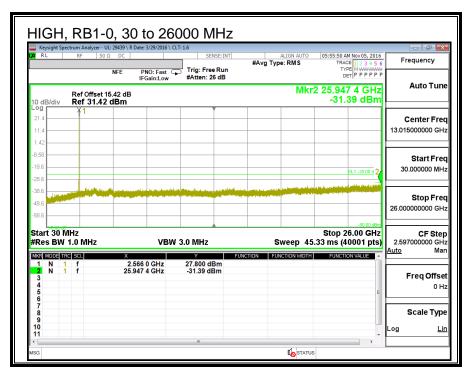




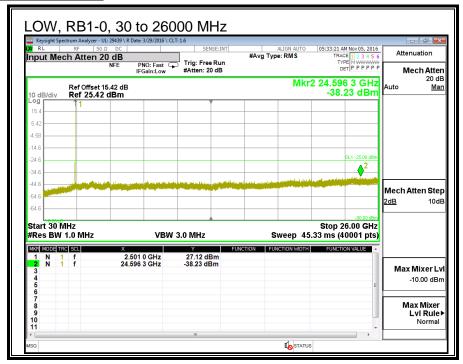
# LTE BAND 7 16QAM, (5 MHz)

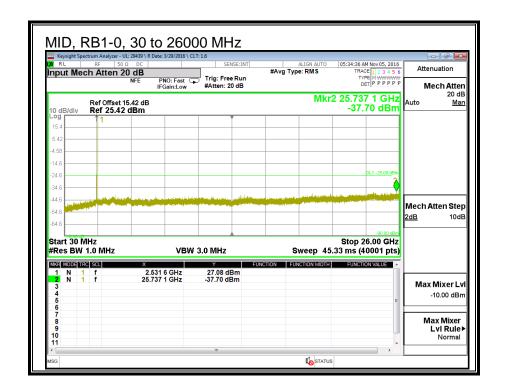


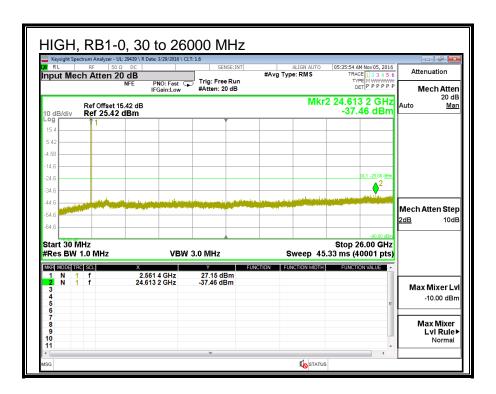




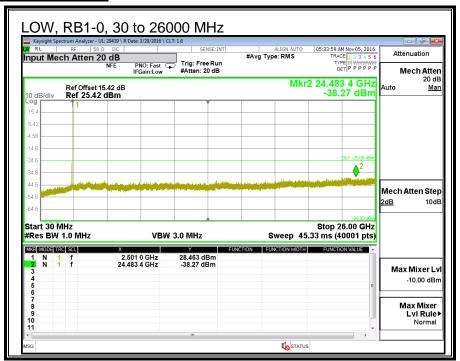
## LTE BAND 7 QPSK, (10 MHz)

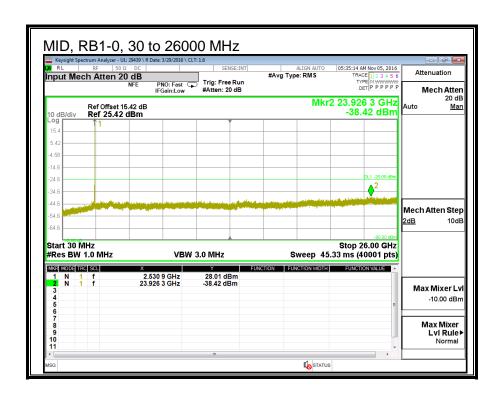


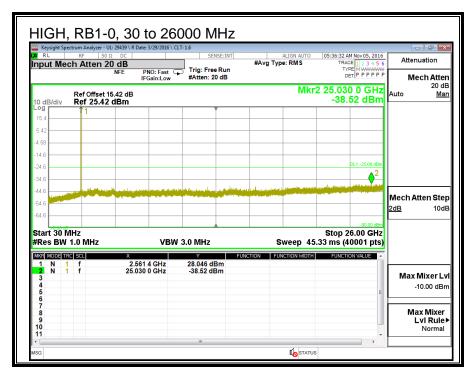




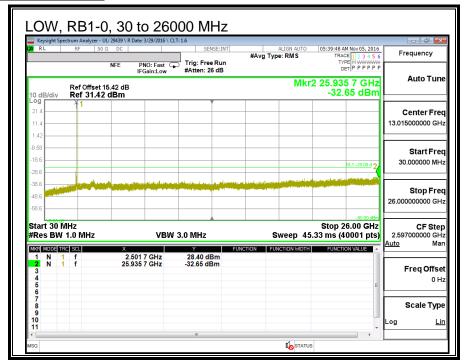
# LTE BAND 7 16QAM, (10 MHz)

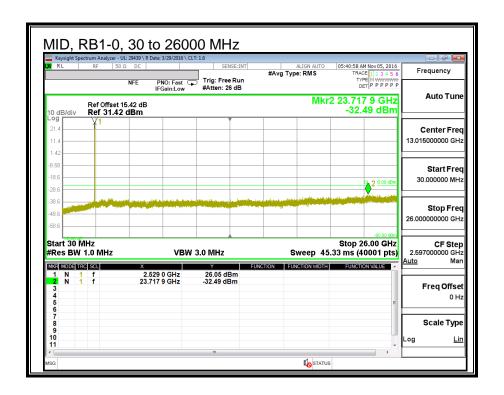


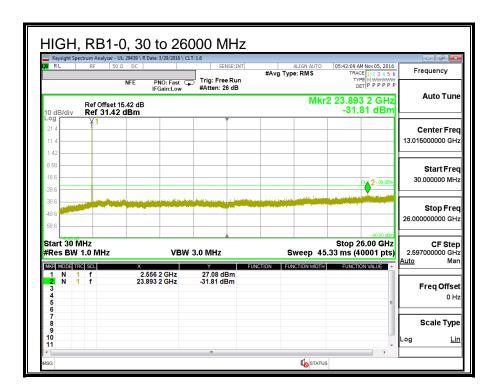




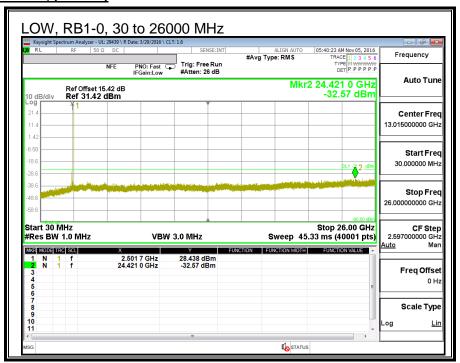
## LTE BAND 7 QPSK, (15 MHz)

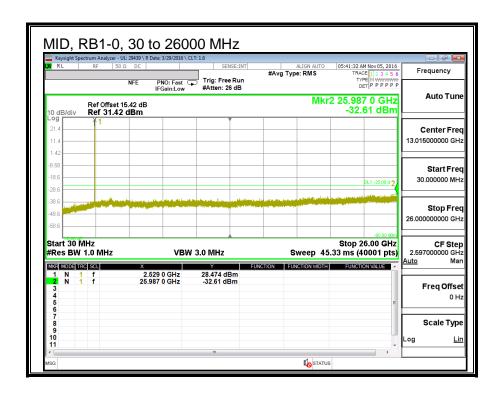


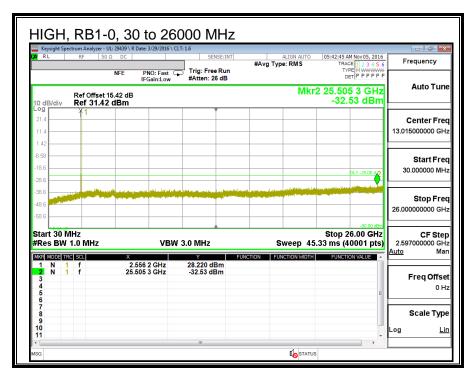




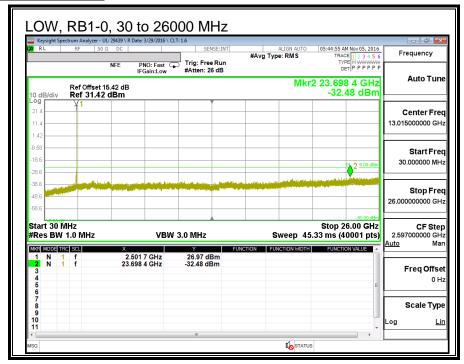
# LTE BAND 7 16QAM, (15 MHz)

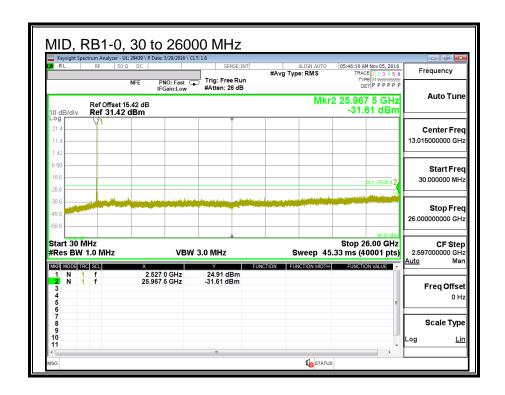


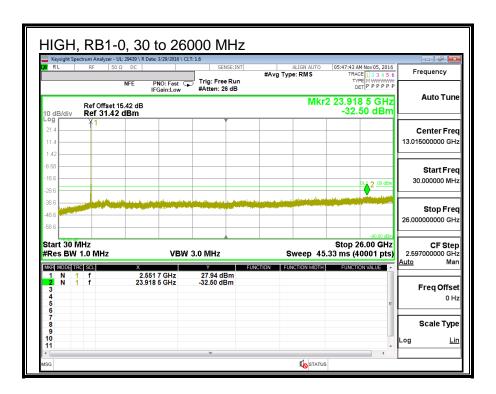




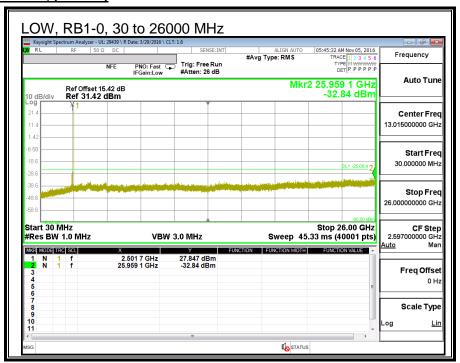
# LTE BAND 7 QPSK, (20 MHz)

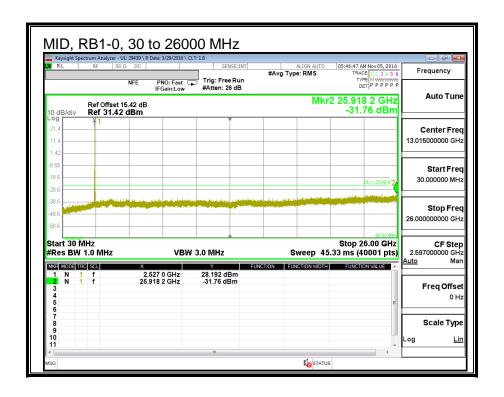


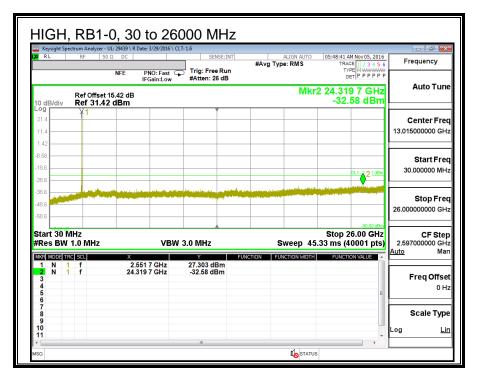




# LTE BAND 7 16QAM, (20 MHz)

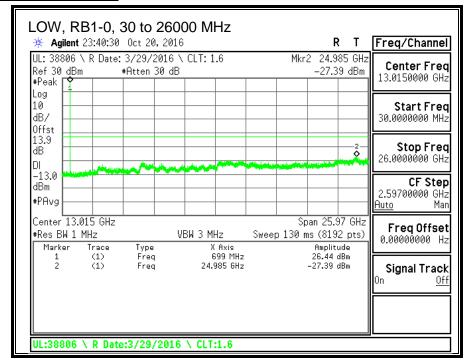


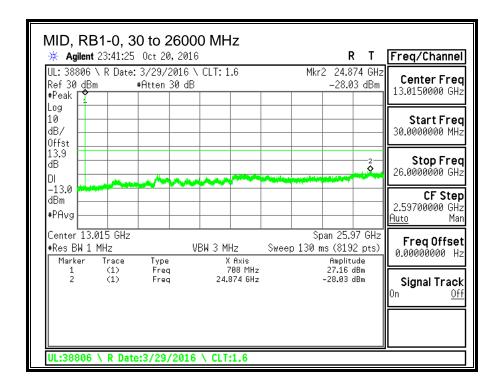


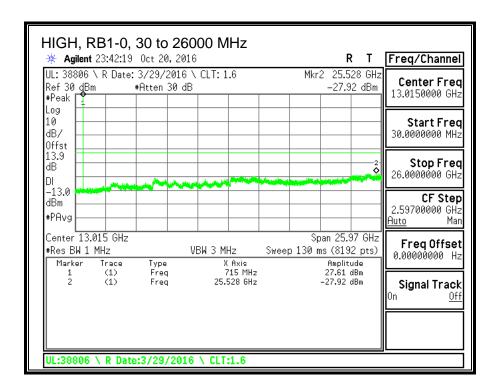


#### 8.3.5. LTE BAND 12

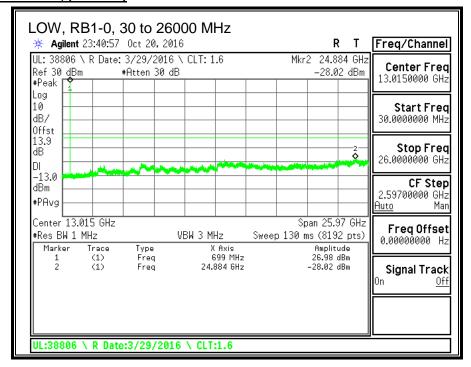
### LTE BAND 12 QPSK, (1.4 MHz)

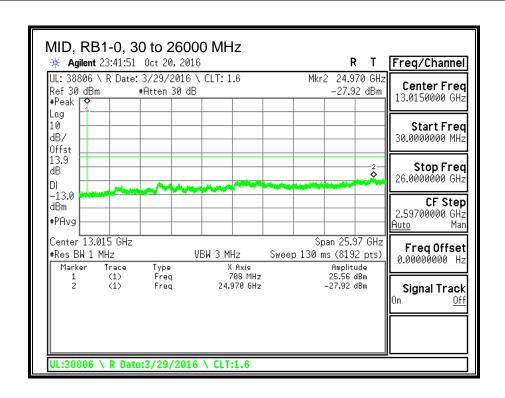


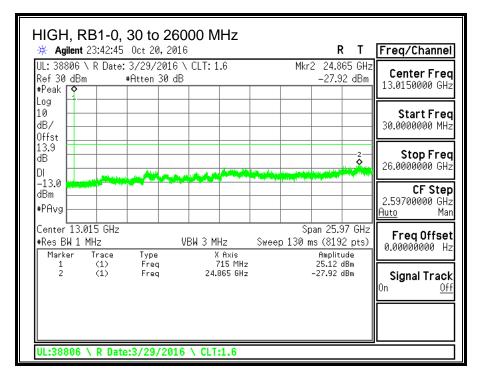




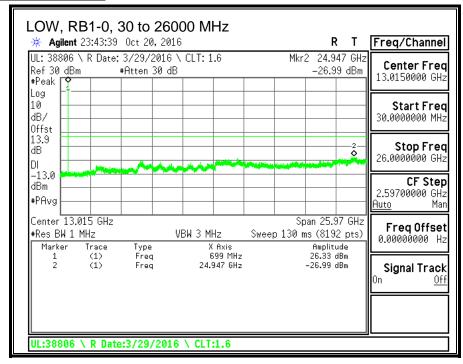
#### LTE BAND 12 16QAM, (1.4 MHz)

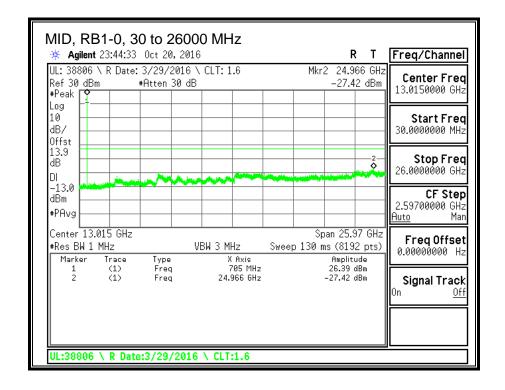


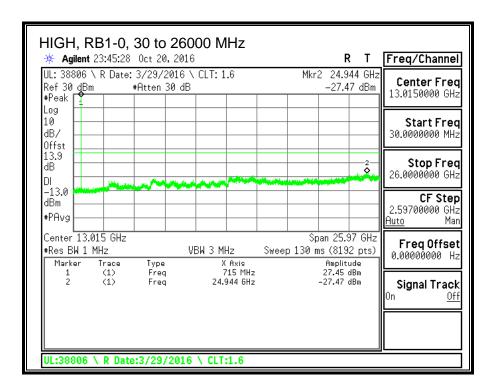




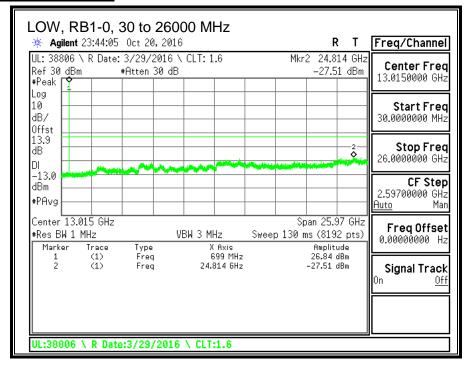
### LTE BAND 12 QPSK, (3 MHz)

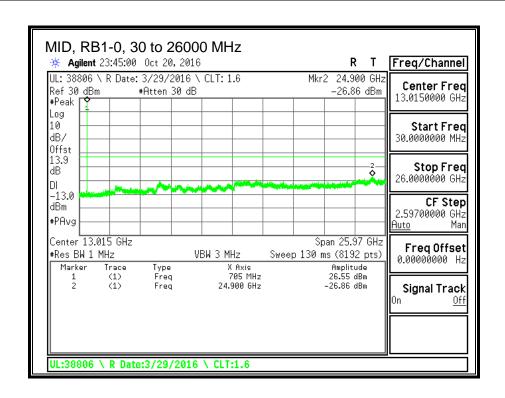


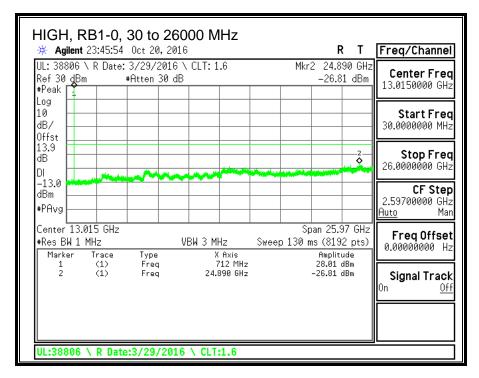




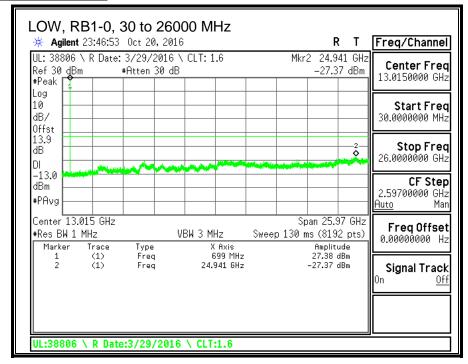
#### LTE BAND 12 16QAM, (3 MHz)

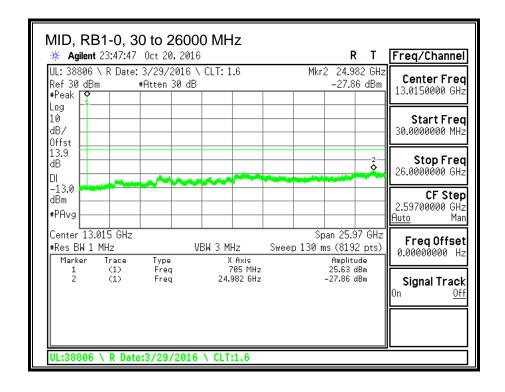


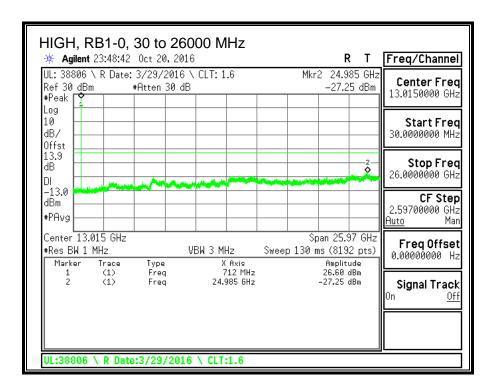




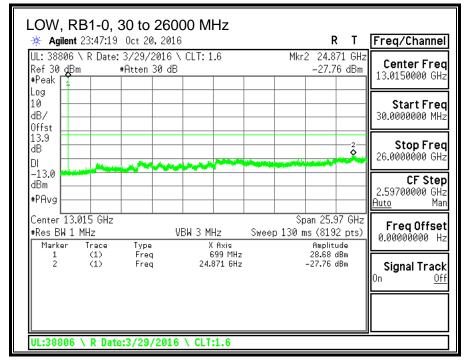
### LTE BAND 12 QPSK, (5 MHz)

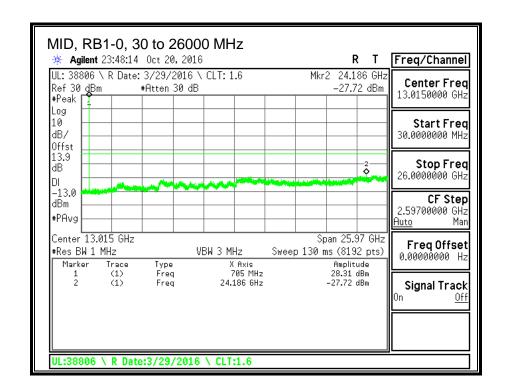


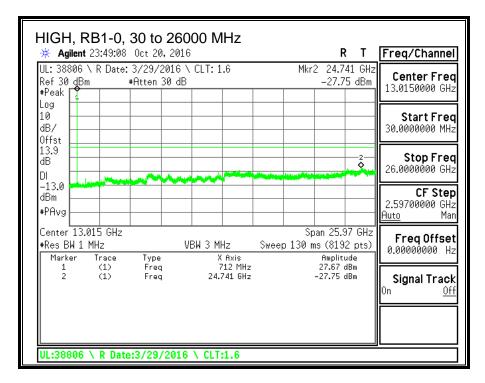




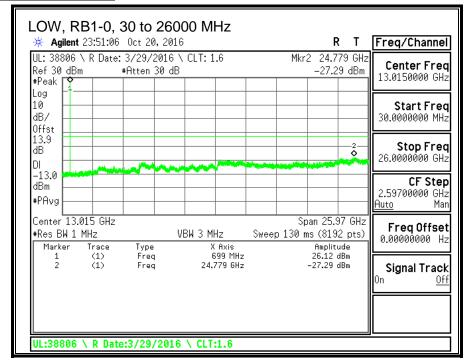
# LTE BAND 12 16QAM, (5 MHz)

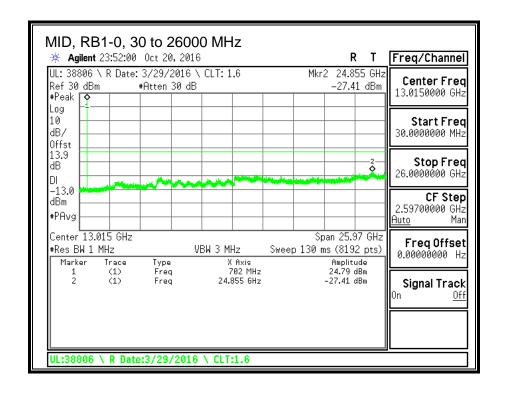


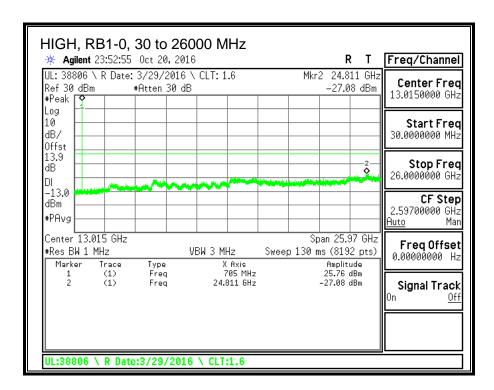




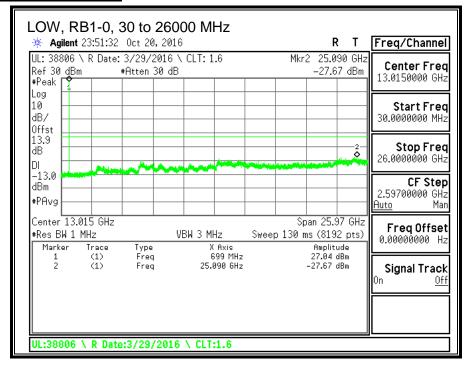
### LTE BAND 12 QPSK, (10 MHz)

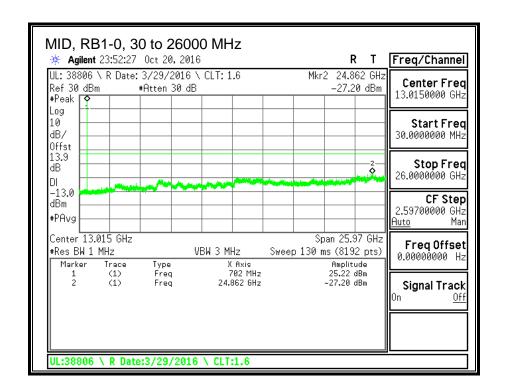


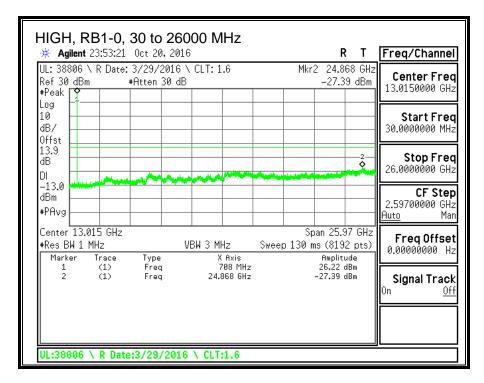




#### LTE BAND 12 16QAM, (10 MHz)

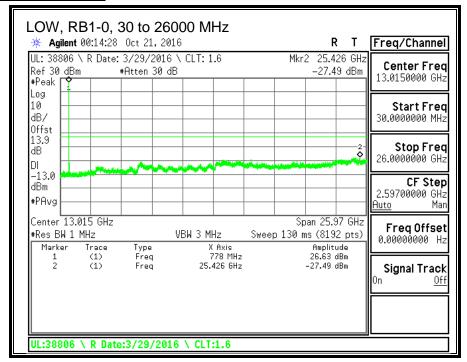


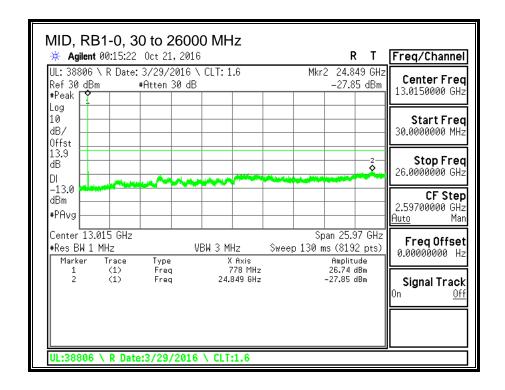


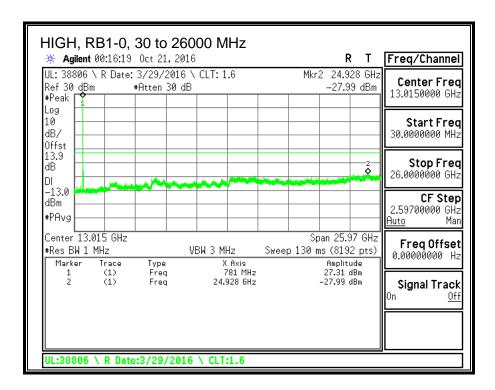


#### 8.3.6. LTE BAND 13

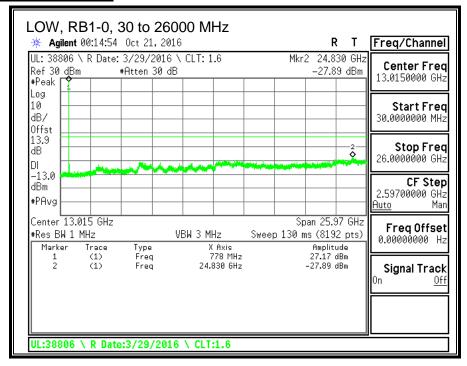
### LTE BAND 13 QPSK, (5 MHz)

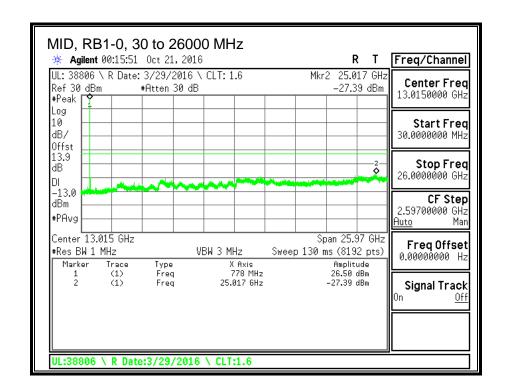


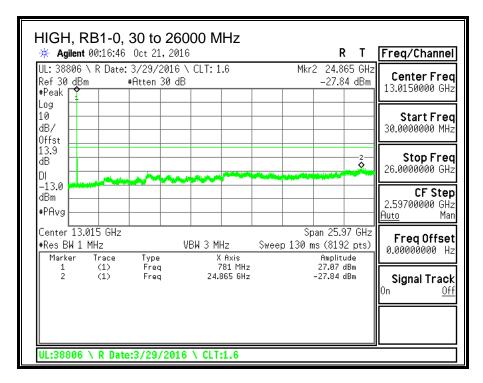




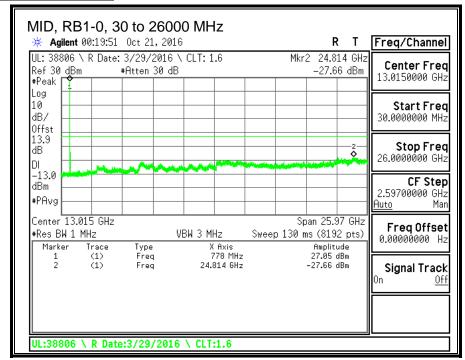
#### LTE BAND 13 16QAM, (5 MHz)



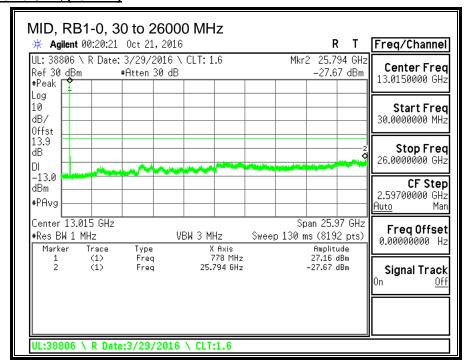




### LTE BAND 13 QPSK, (10 MHz)

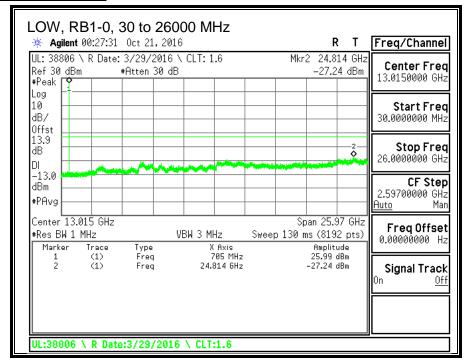


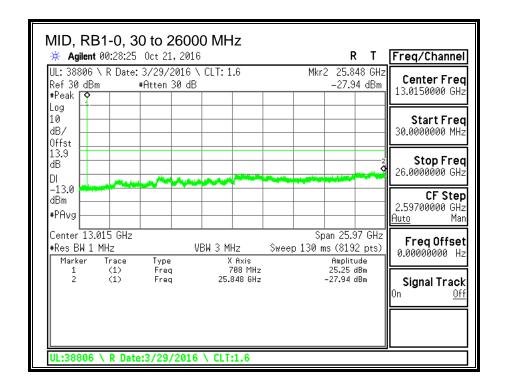
# LTE BAND 13 16QAM, (10 MHz)

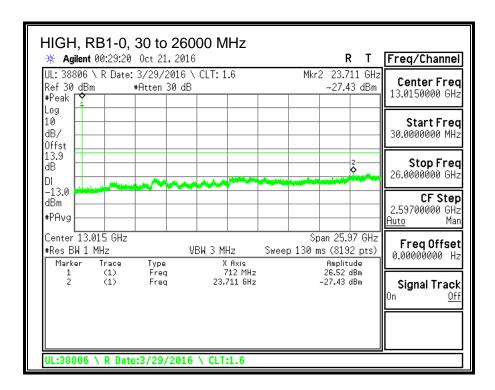


#### 8.3.7. LTE BAND 17

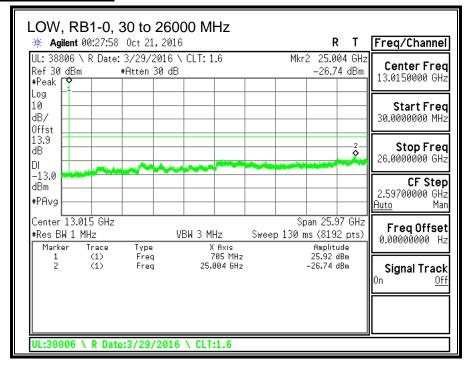
### LTE BAND 17 QPSK, (5 MHz)

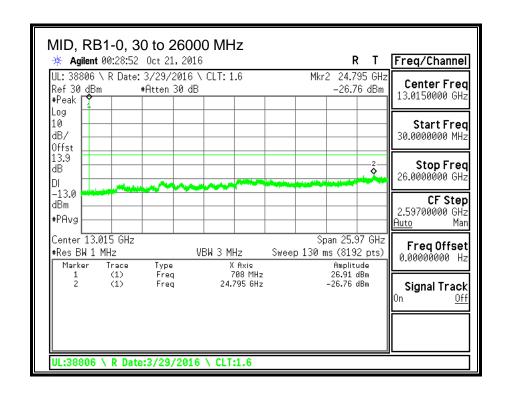


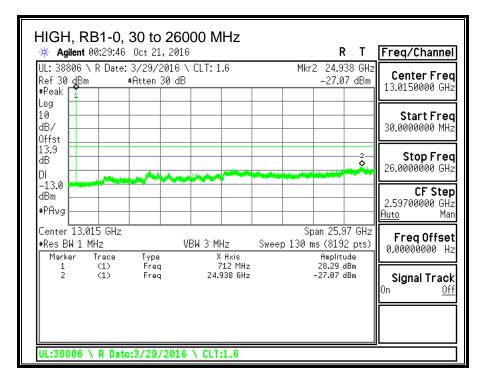




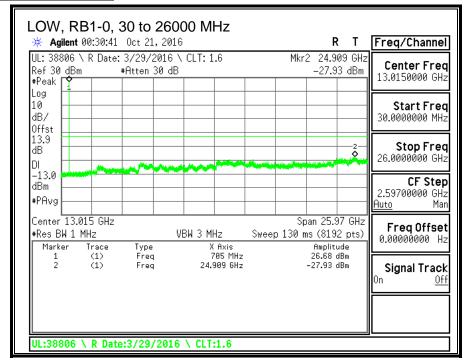
#### **LTE BAND 17 16QAM, (5 MHz)**

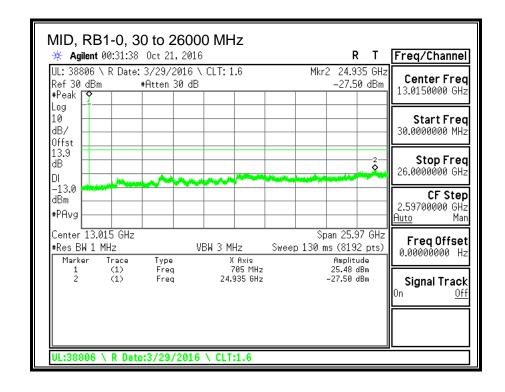


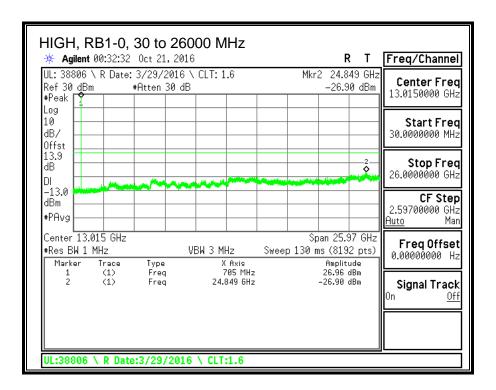




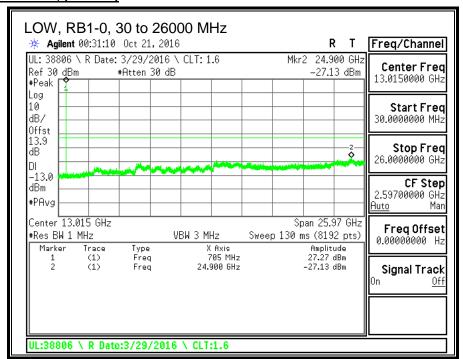
### LTE BAND 17 QPSK, (10 MHz)

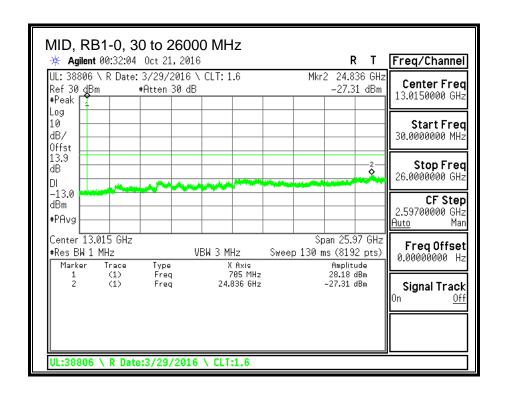


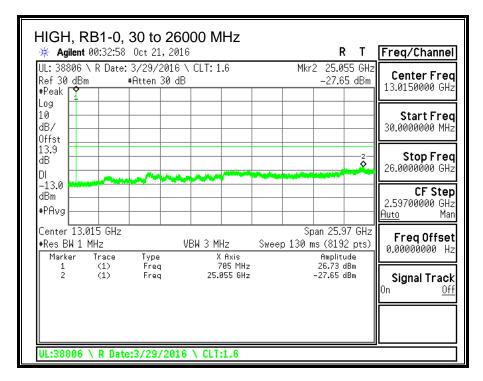




# LTE BAND 17 16QAM, (10 MHz)







#### 8.3.8. LTE BAND 25

### LTE BAND 25 QPSK, (1.4 MHz)

