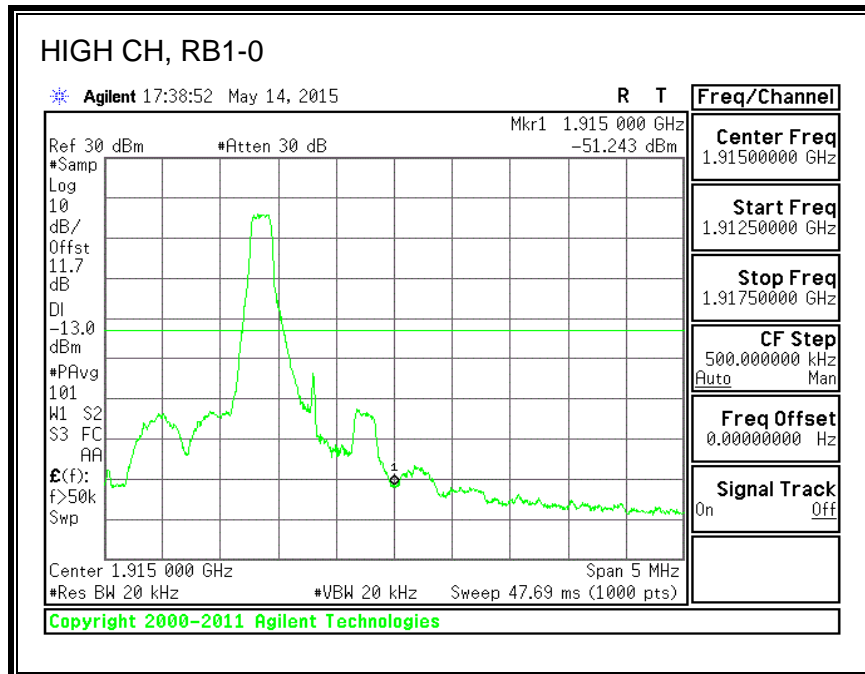
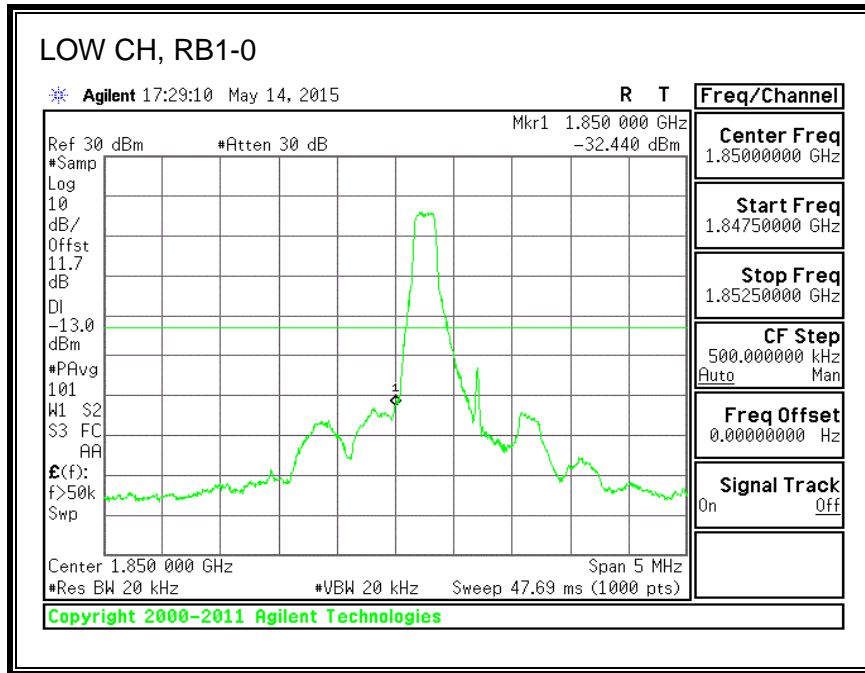
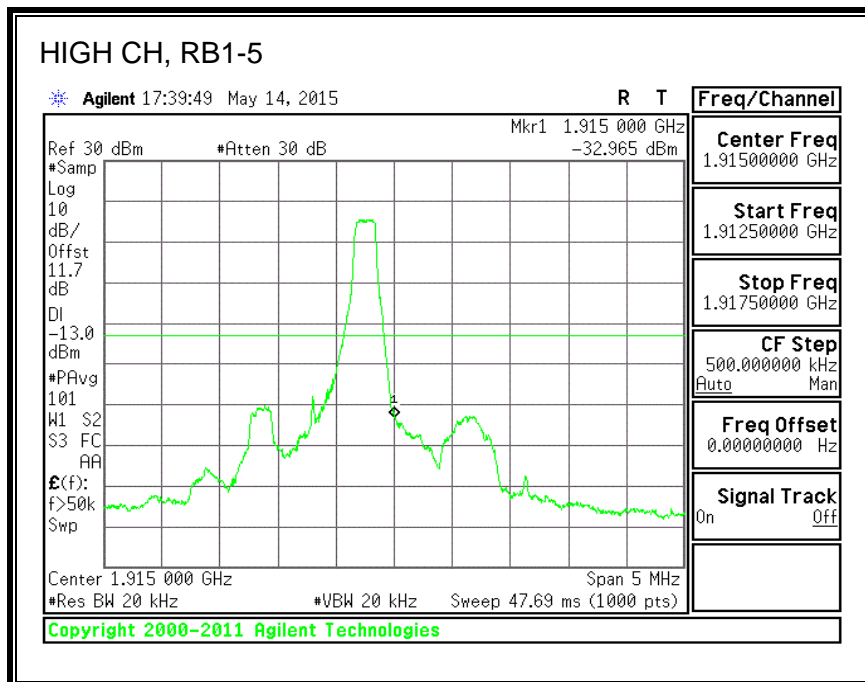
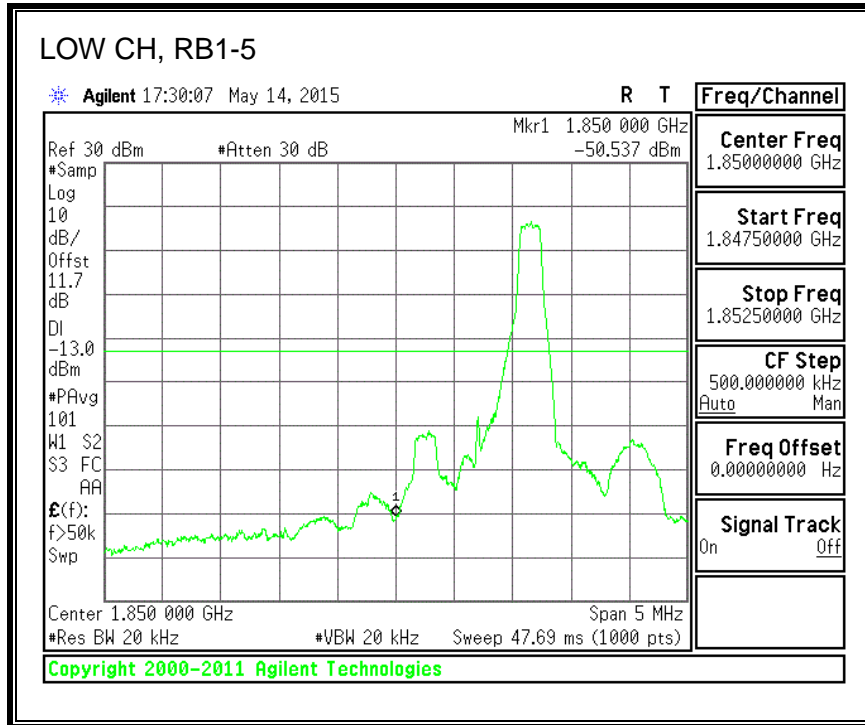
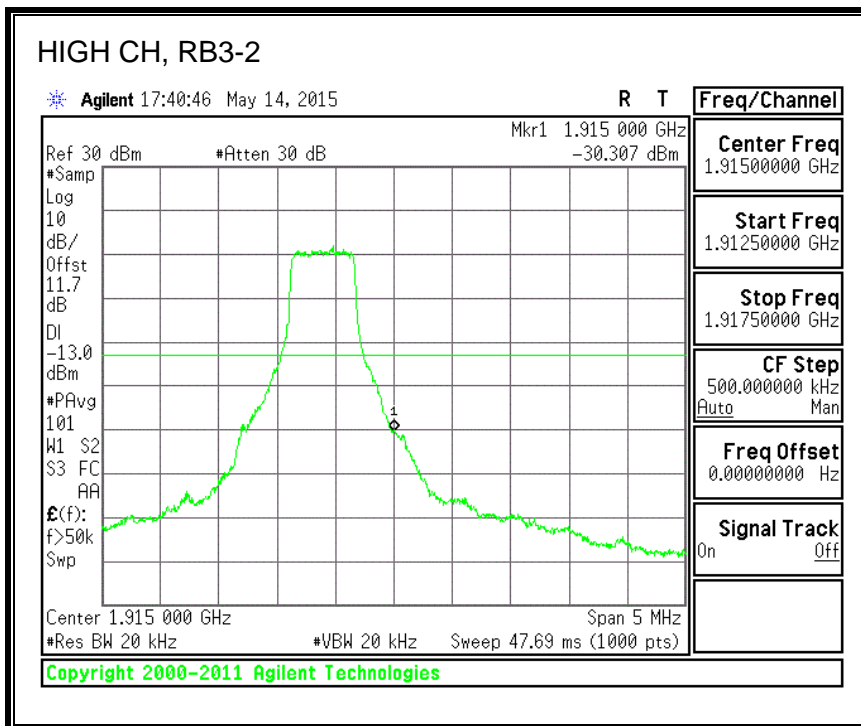
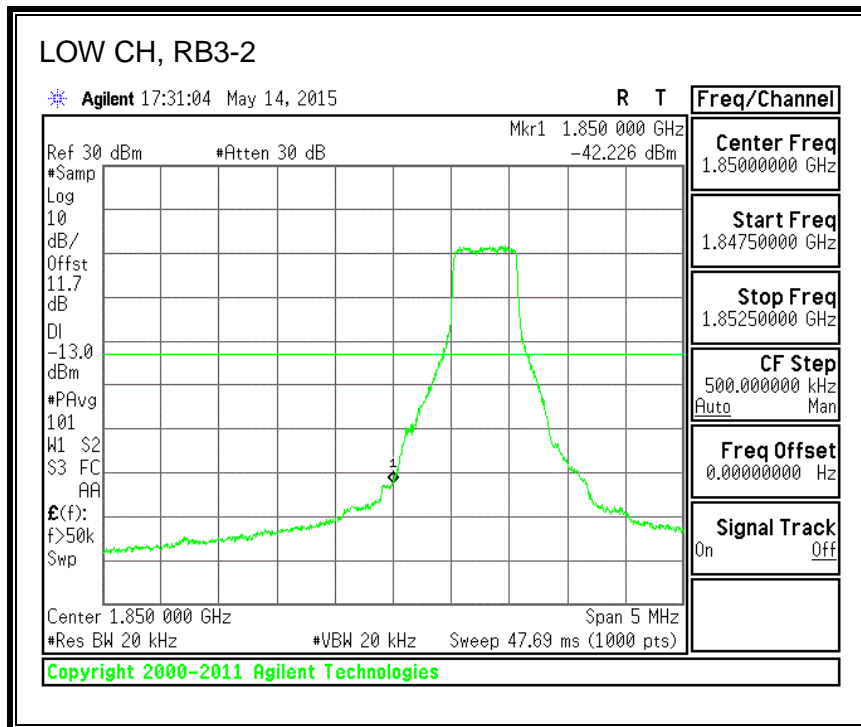


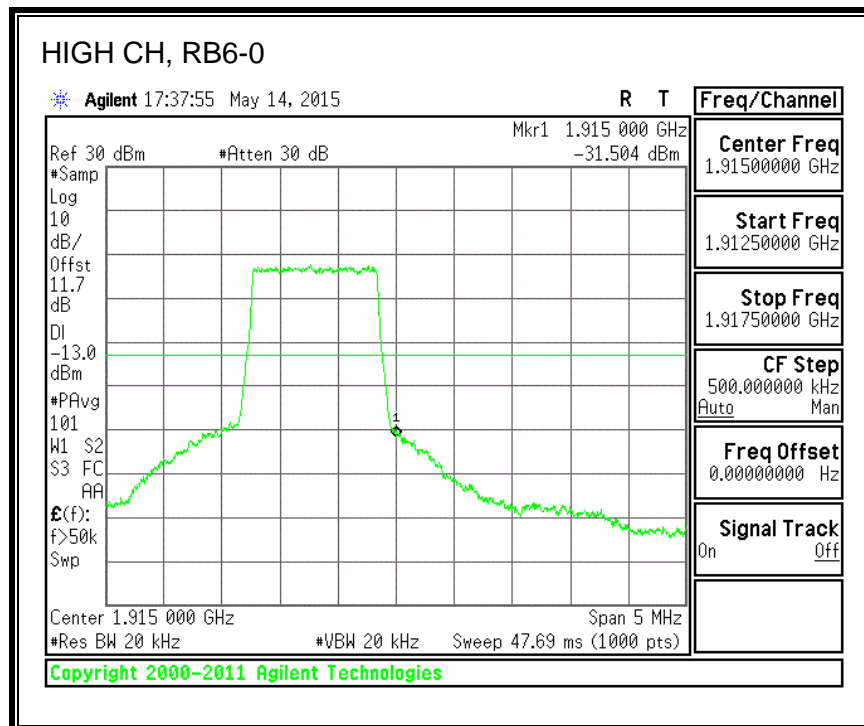
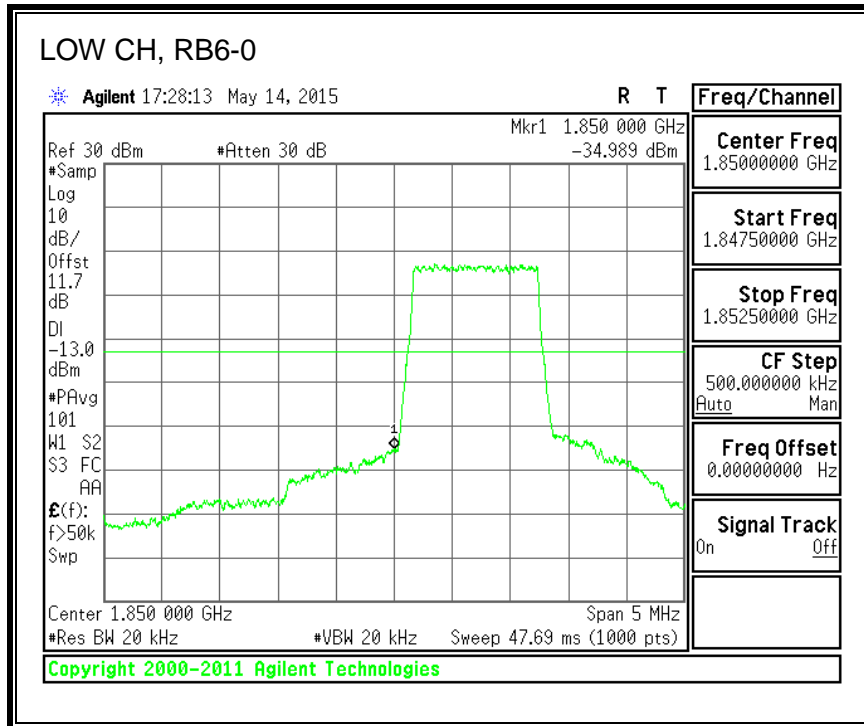
### 8.4.8. LTE BAND 25 BANDEDGE

#### QPSK, (1.4 MHz BAND WIDTH)

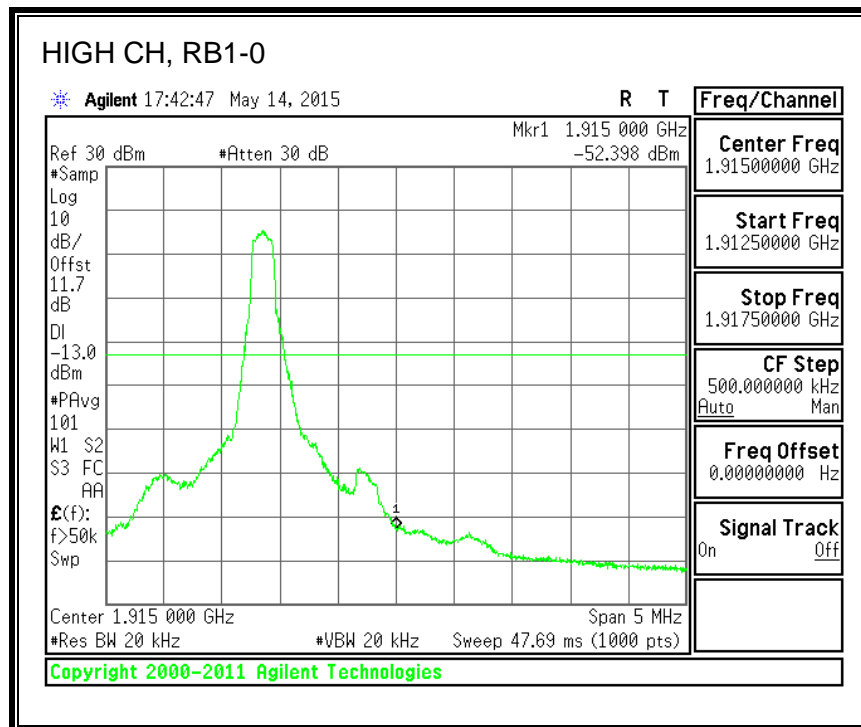
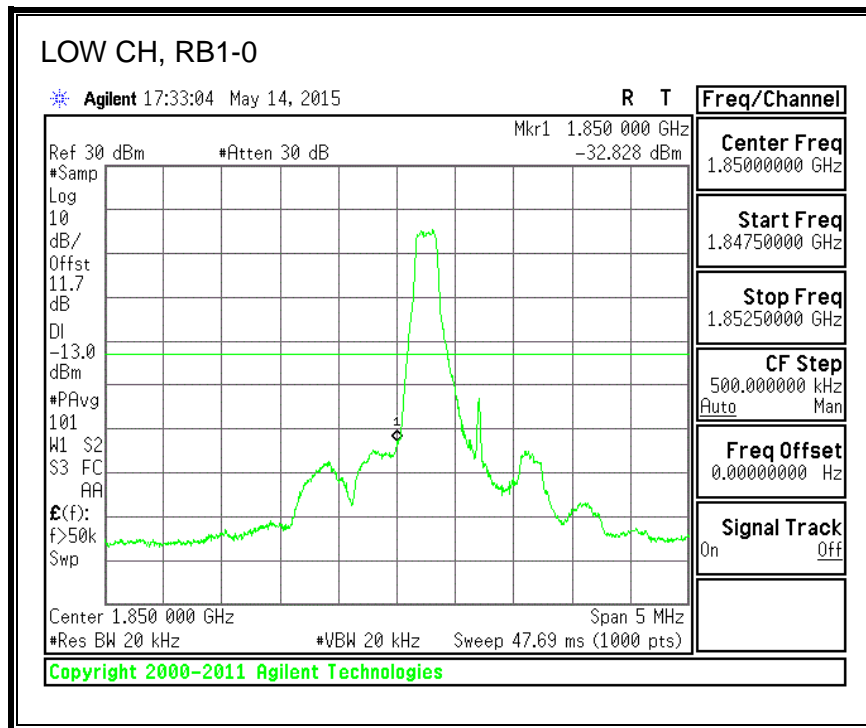


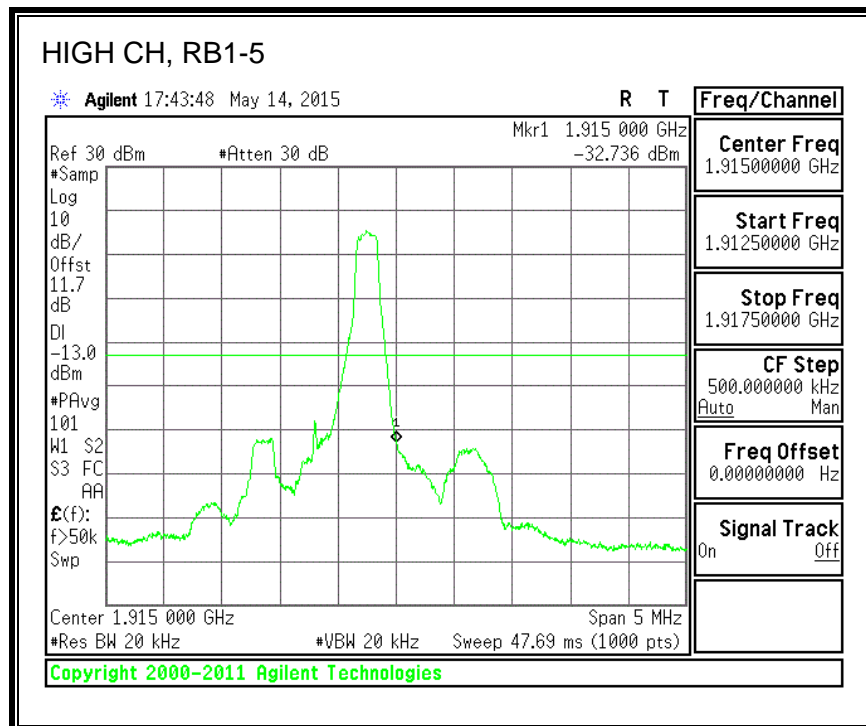
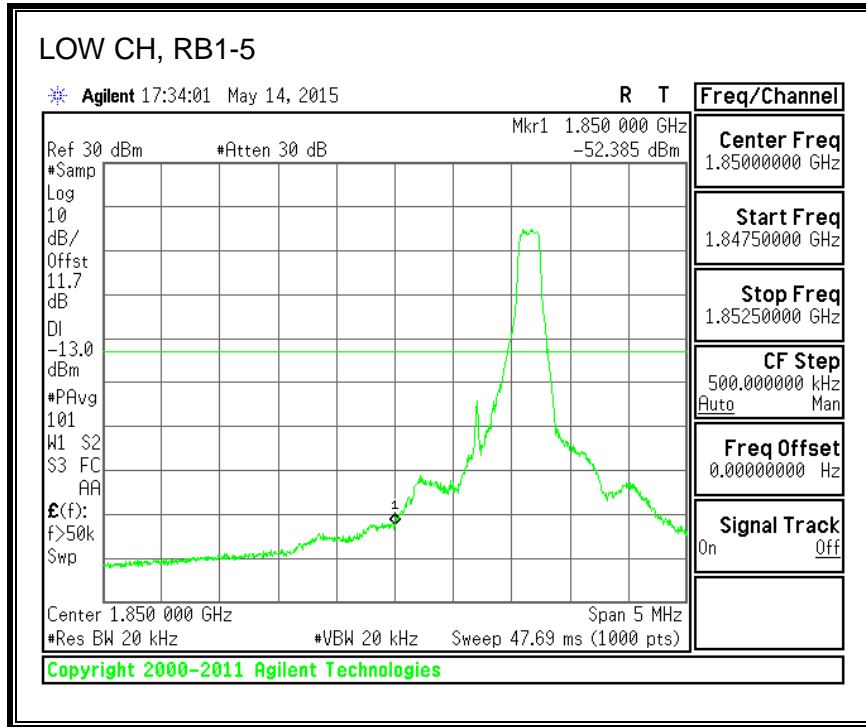




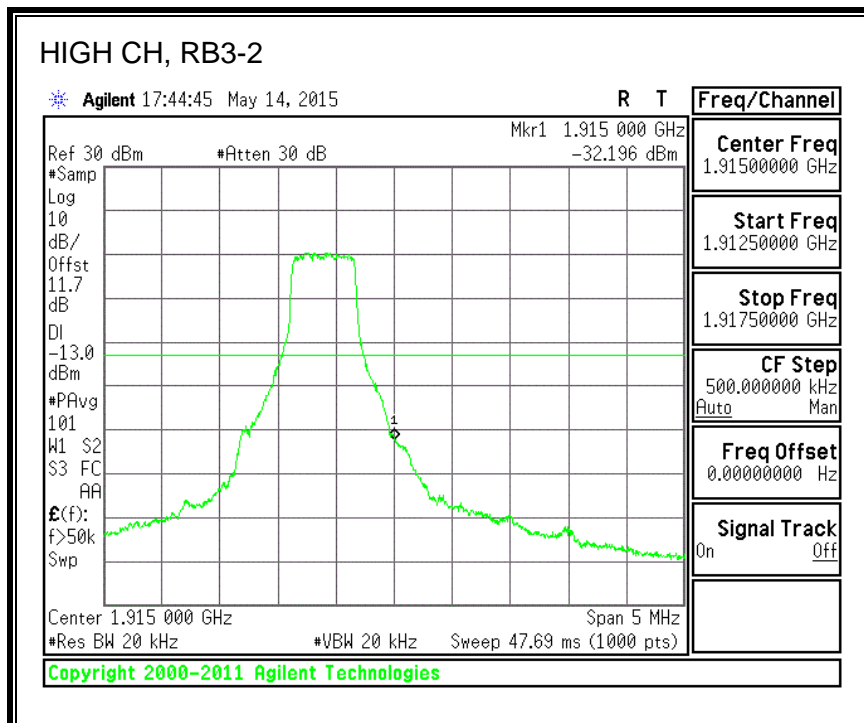
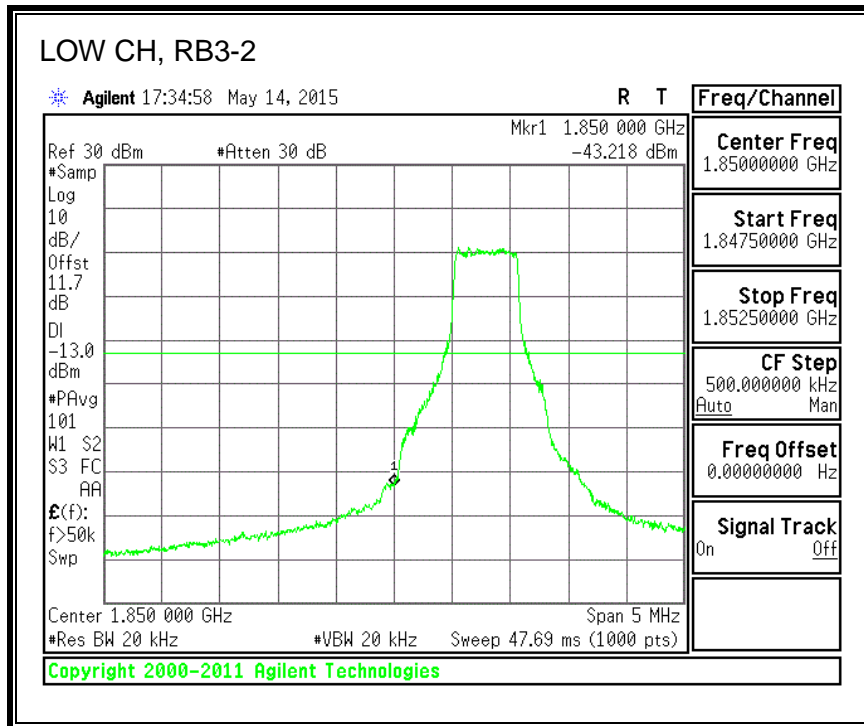


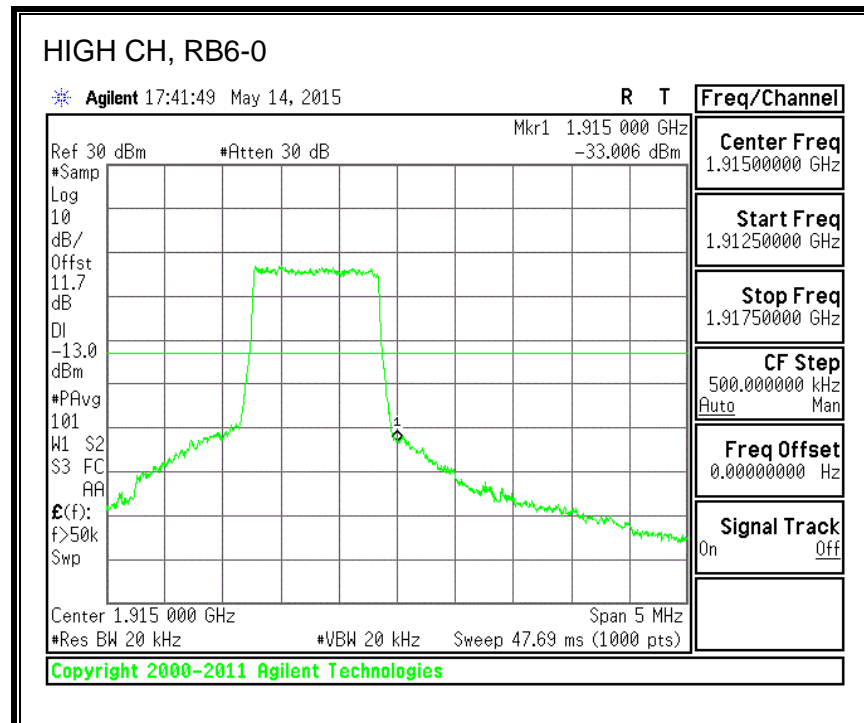
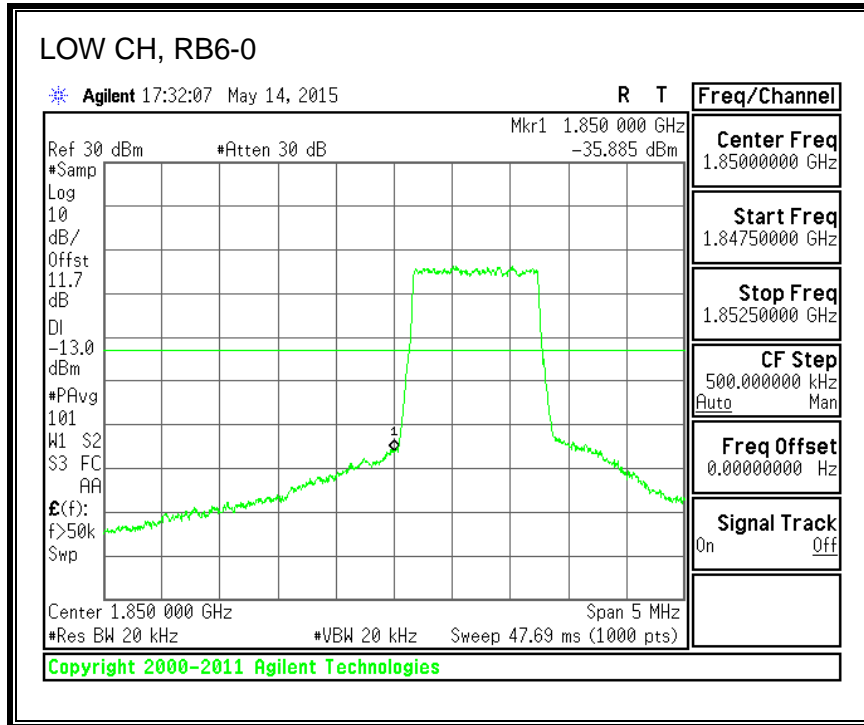
**16QAM, (1.4 MHz BAND WIDTH)**



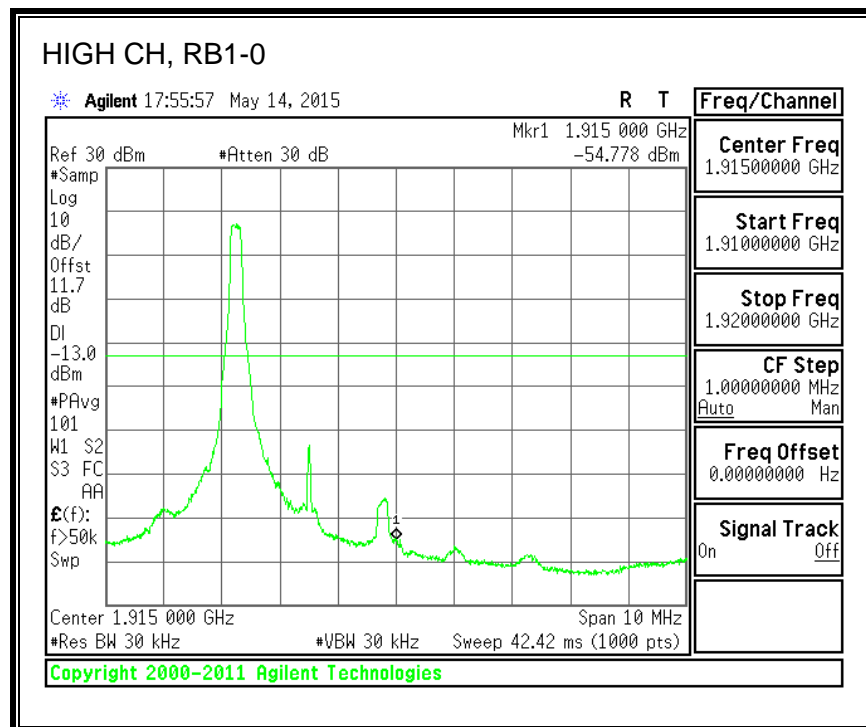
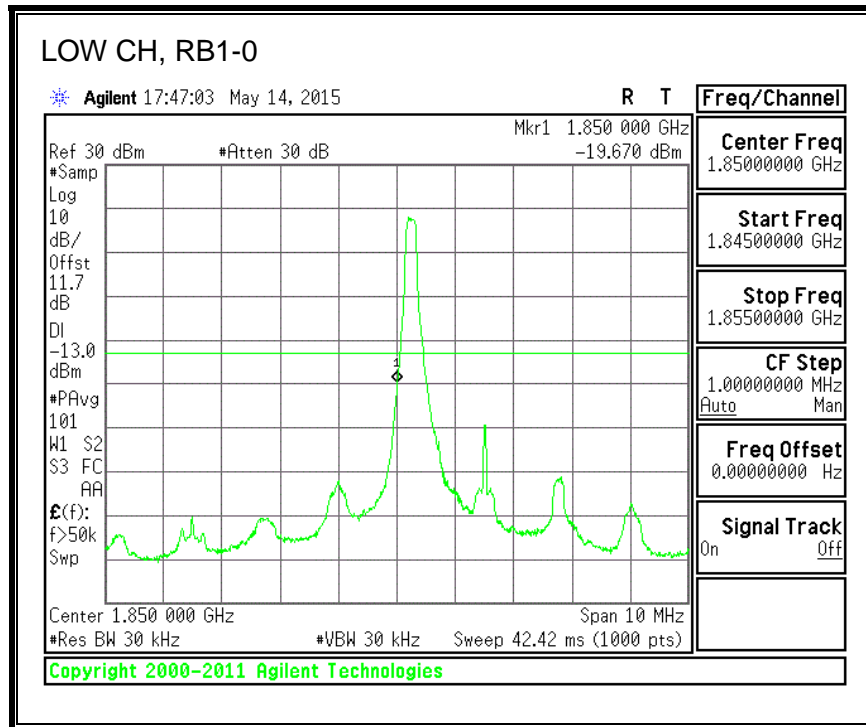


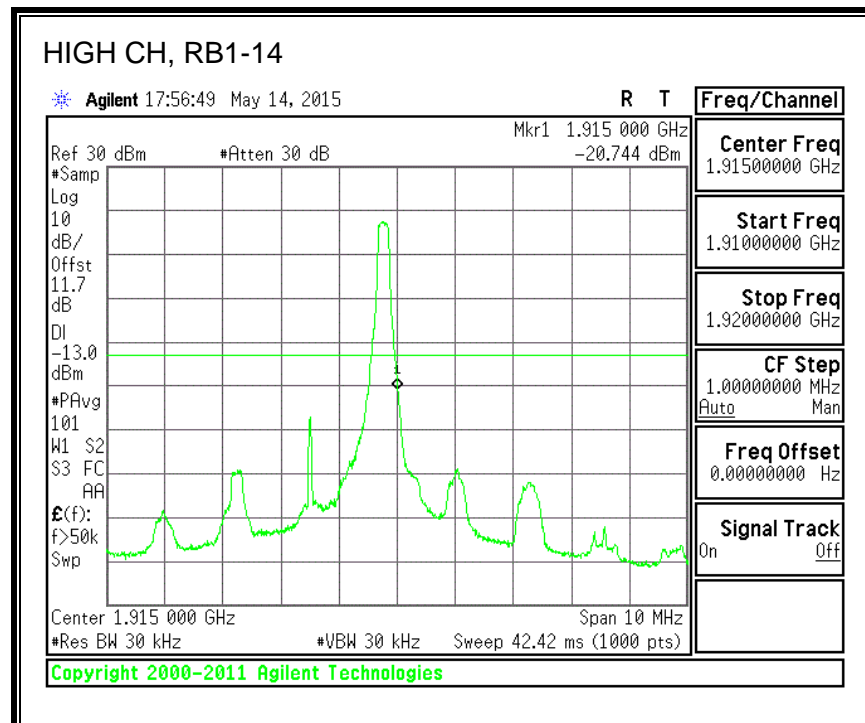
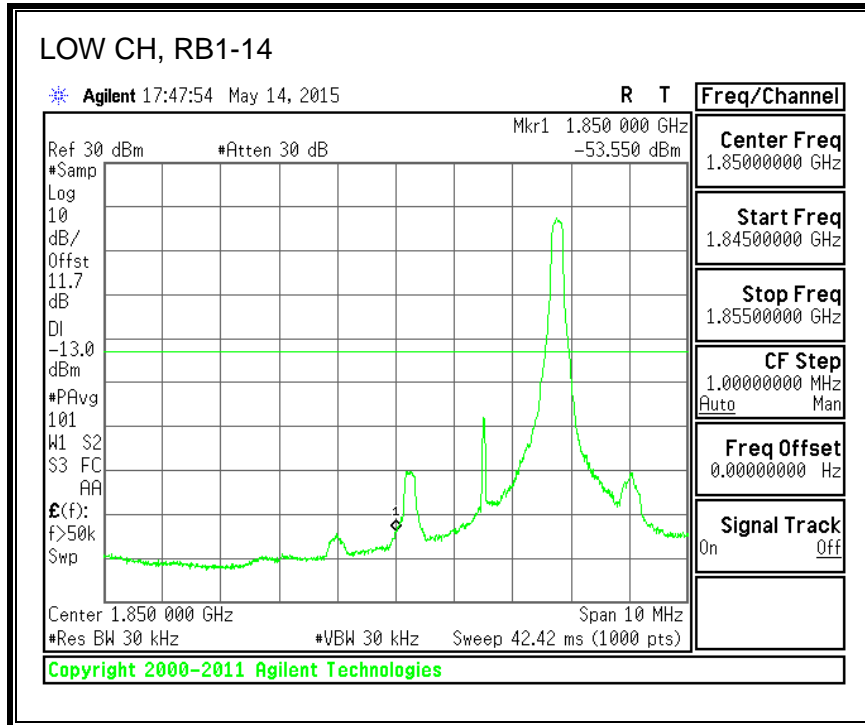


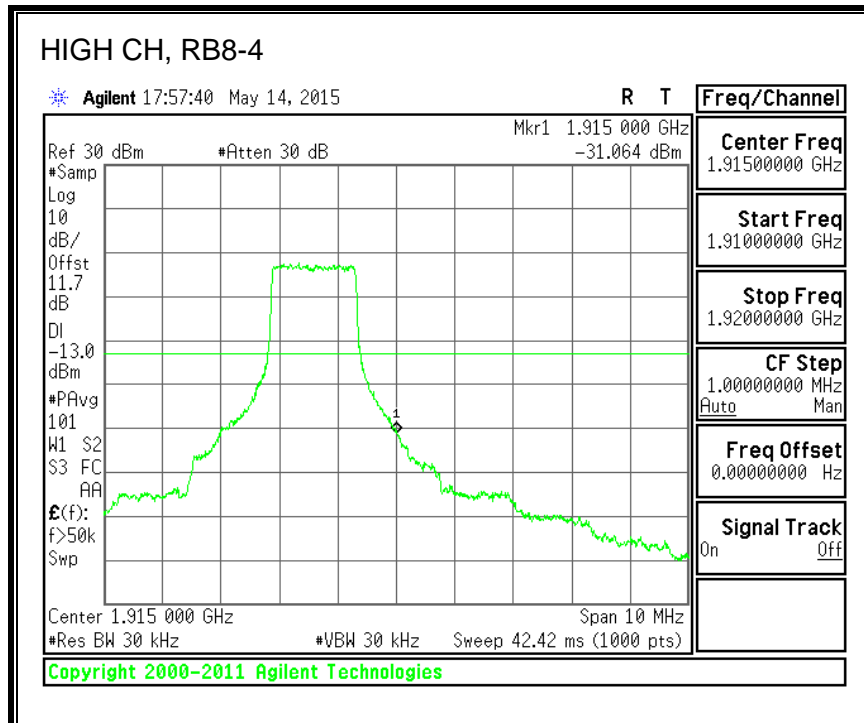
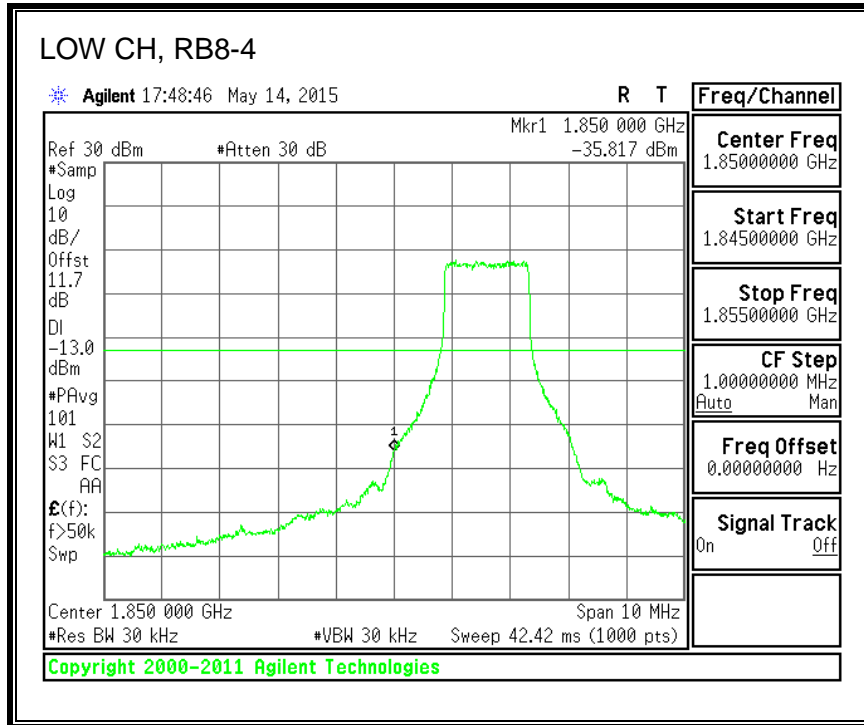


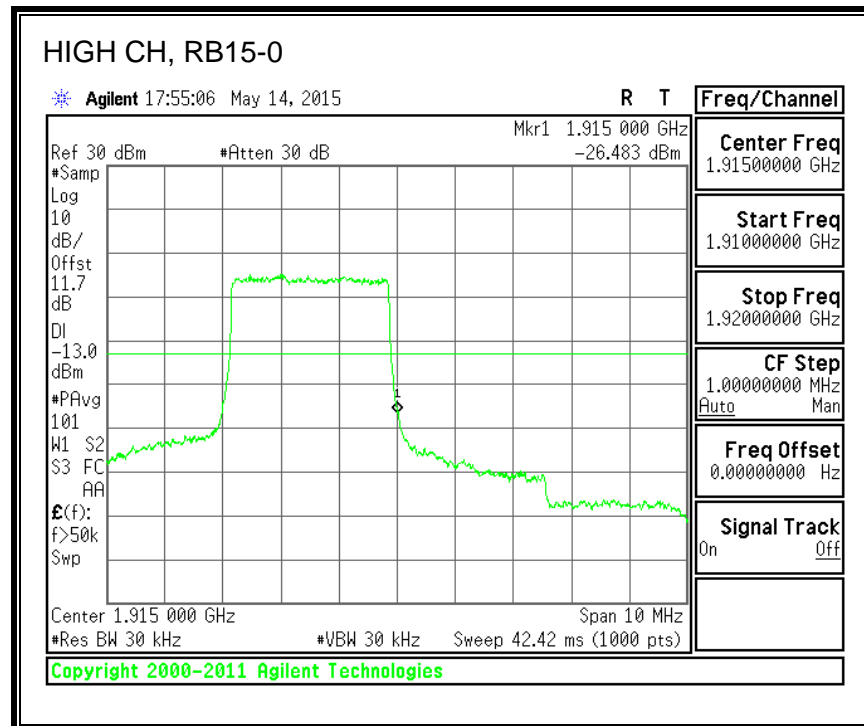
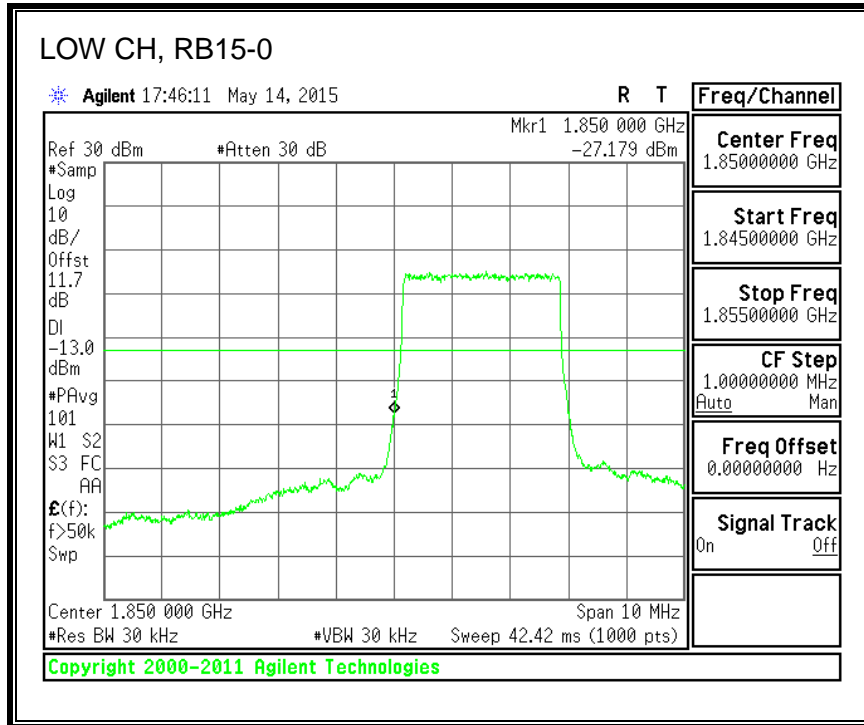


**QPSK, (3.0 MHz BAND WIDTH)**

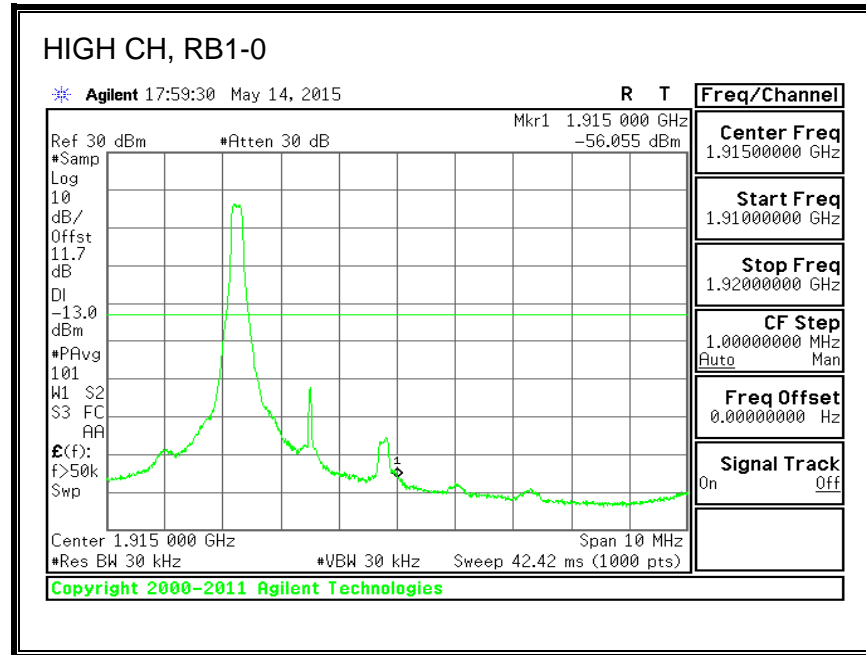
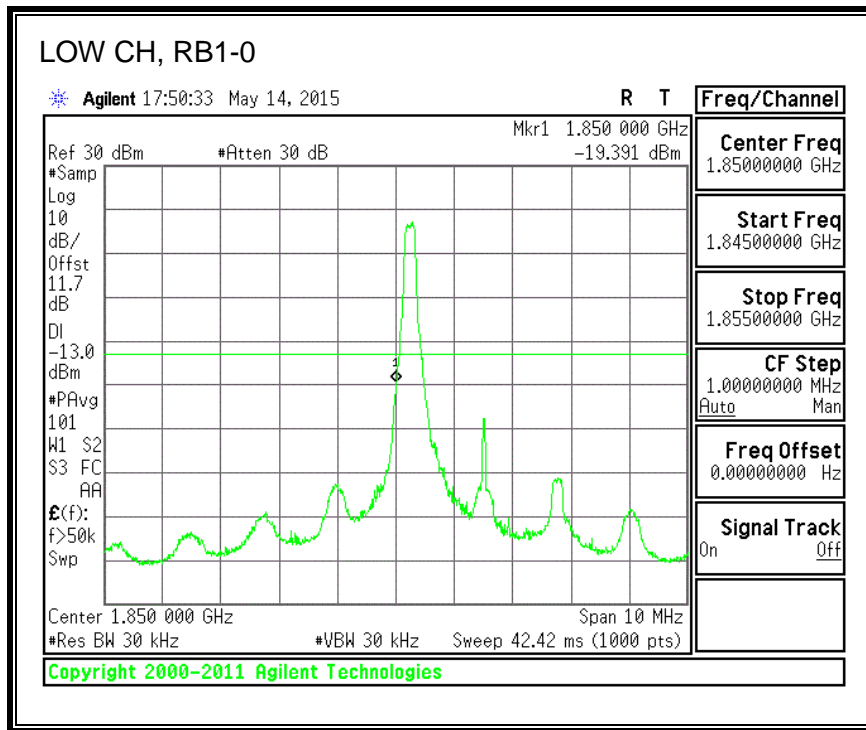


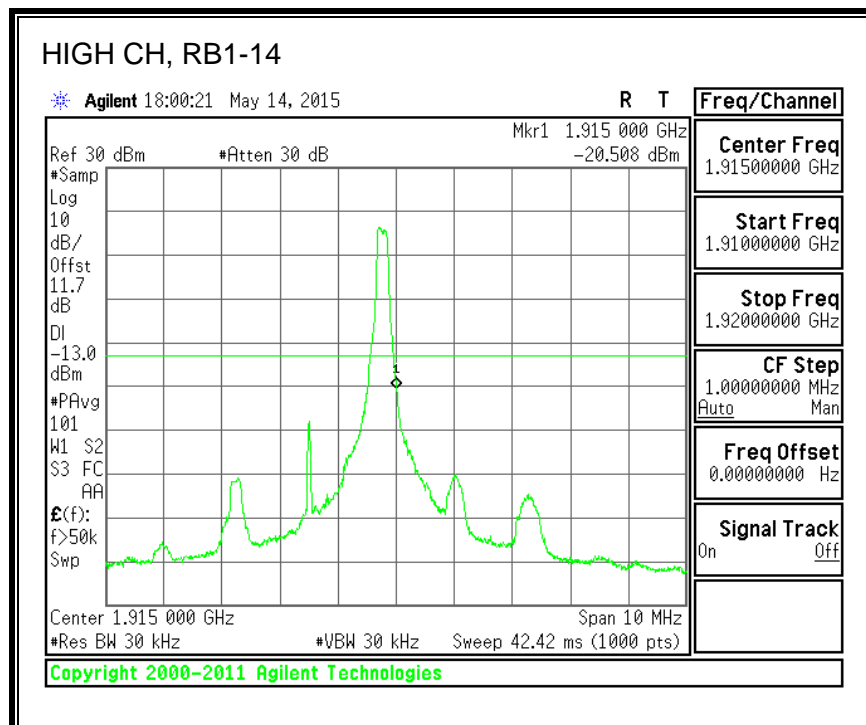
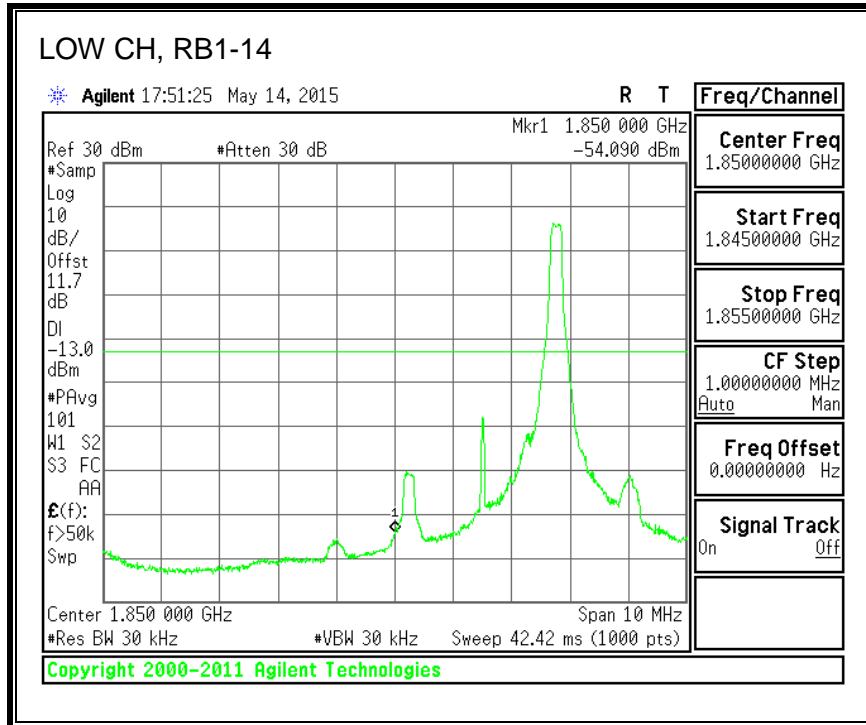




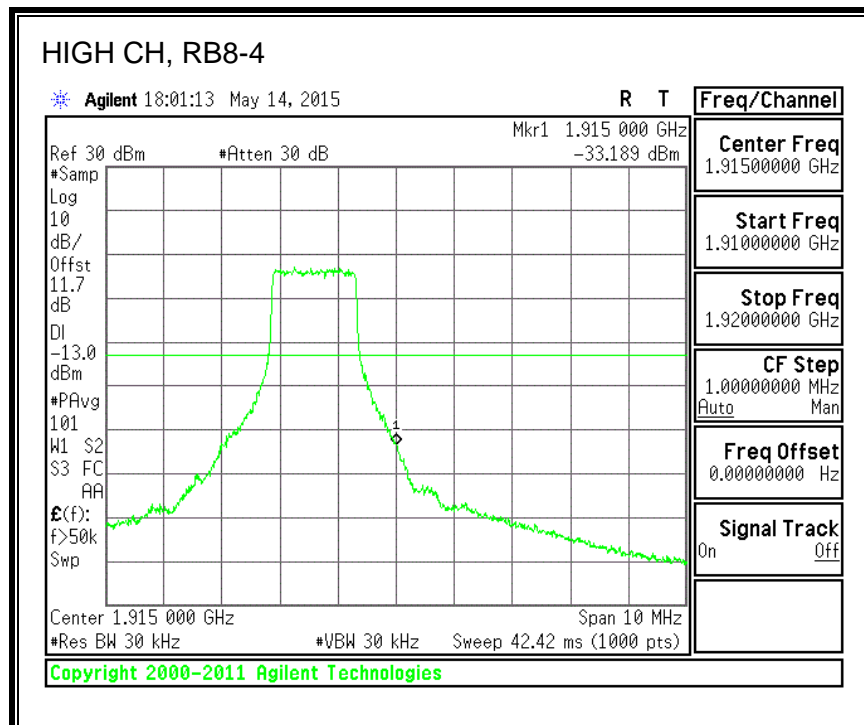
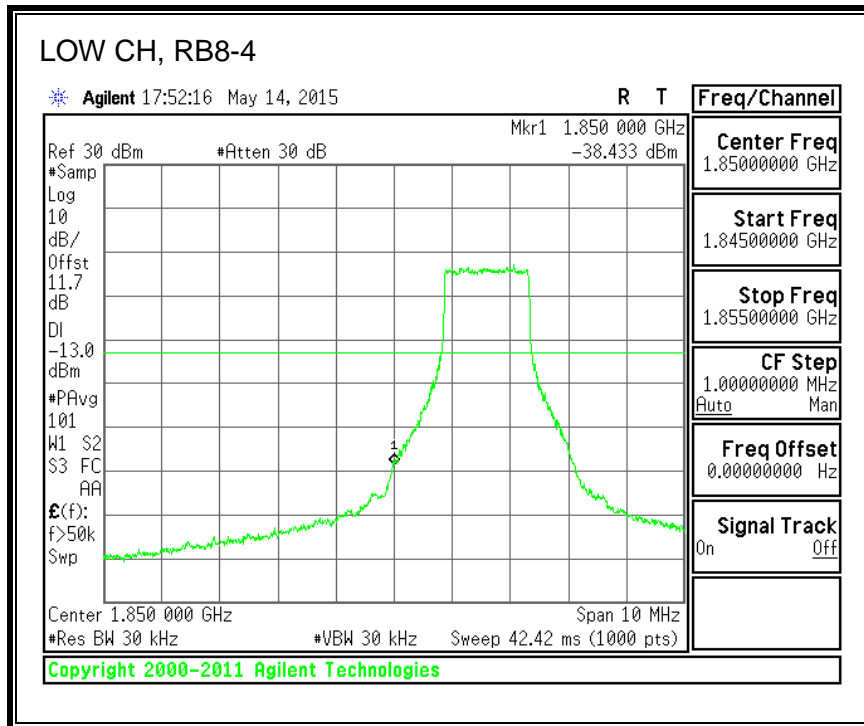


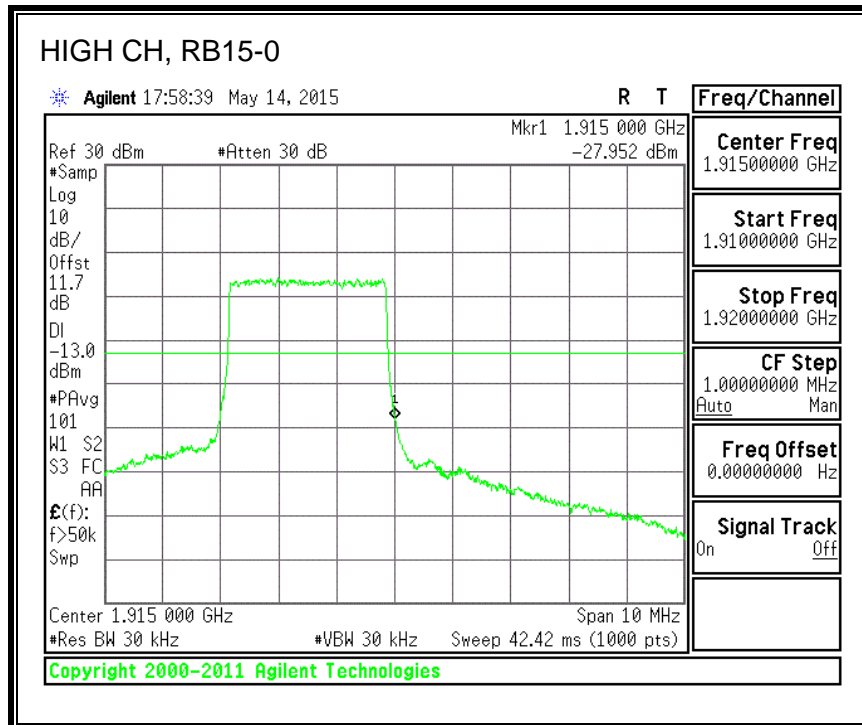
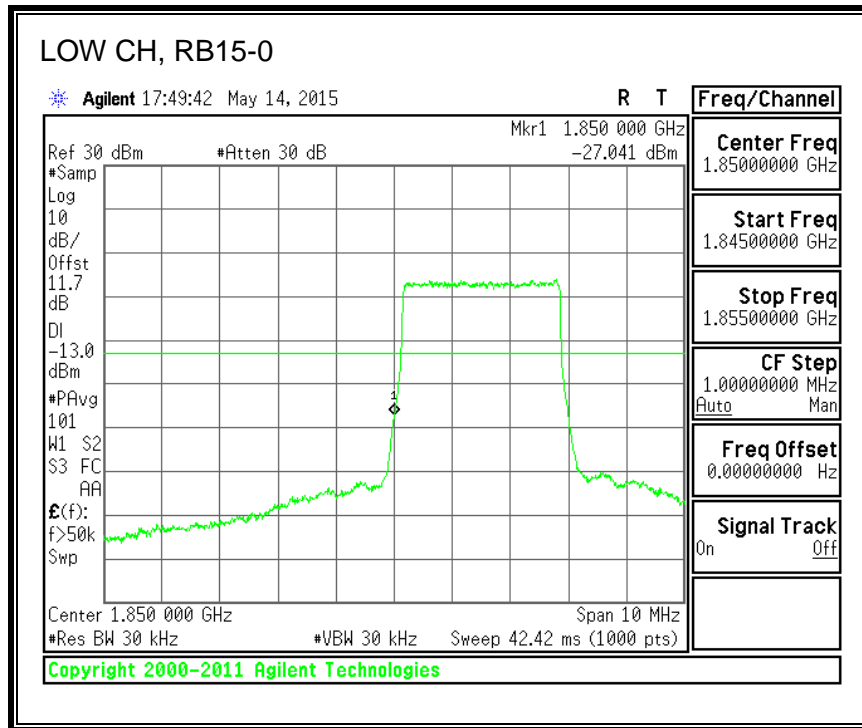
**16QAM, (3.0 MHz BAND WIDTH)**



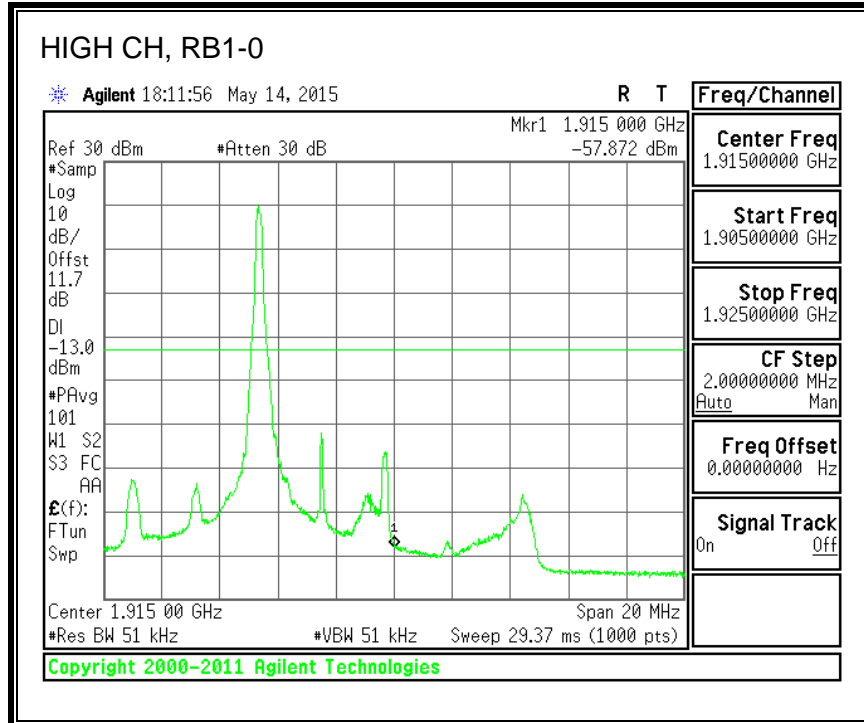
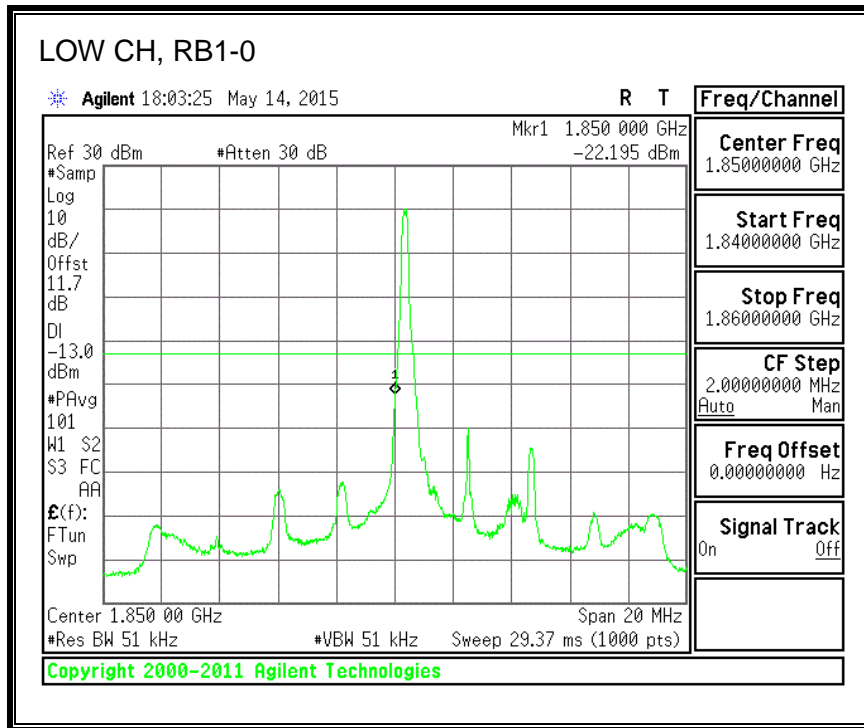


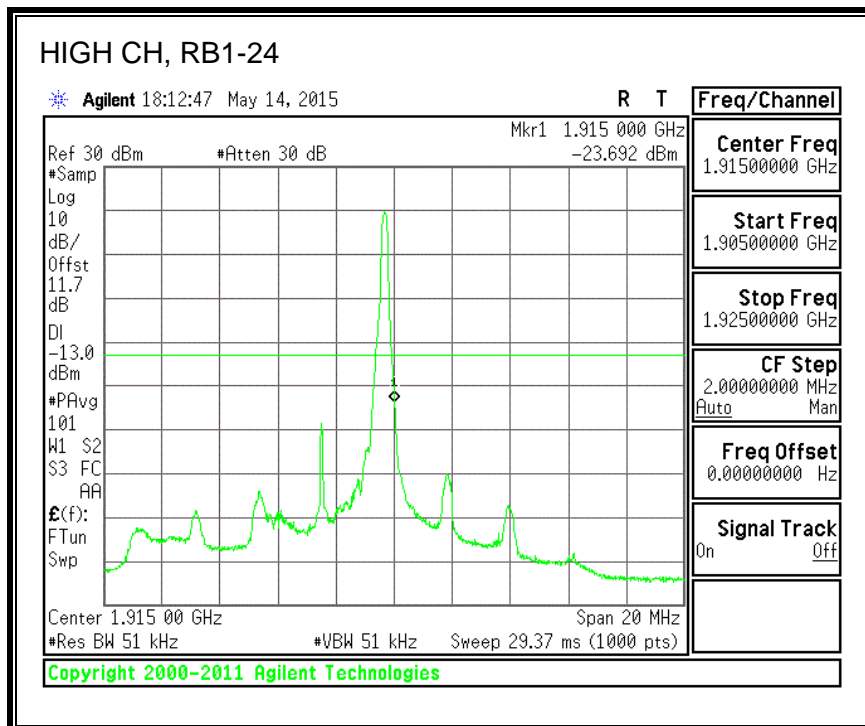
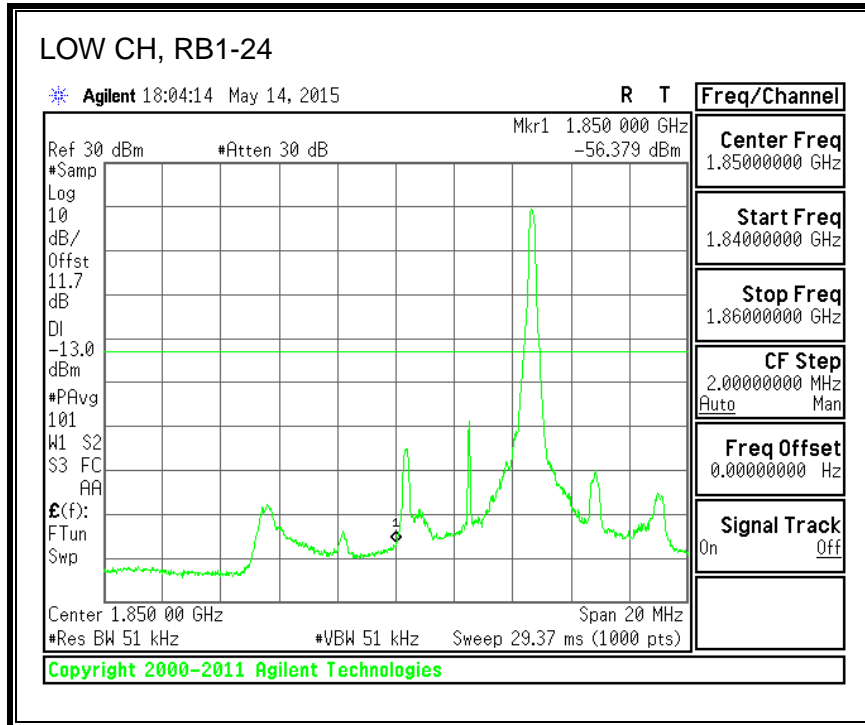


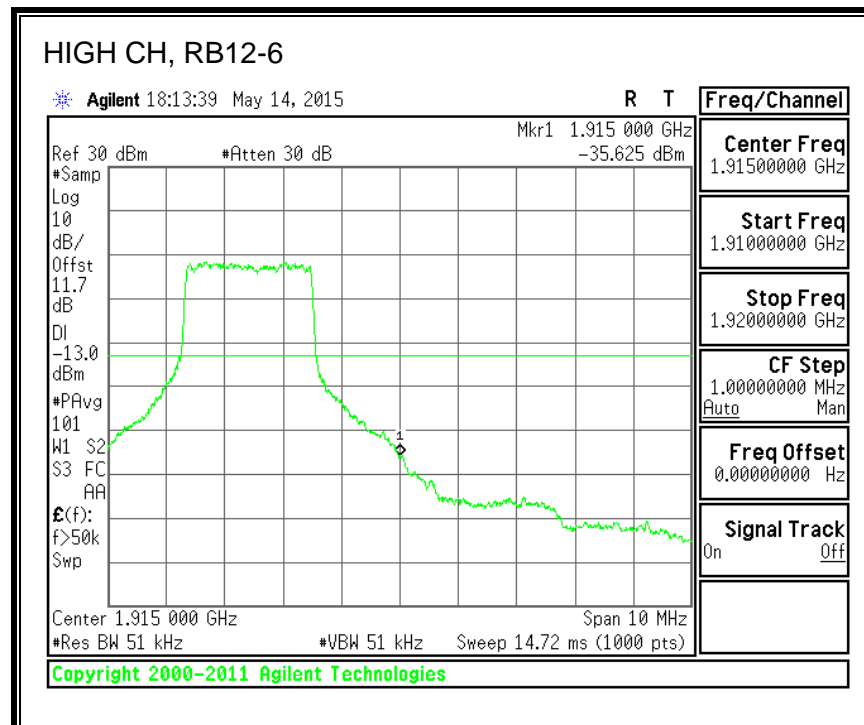
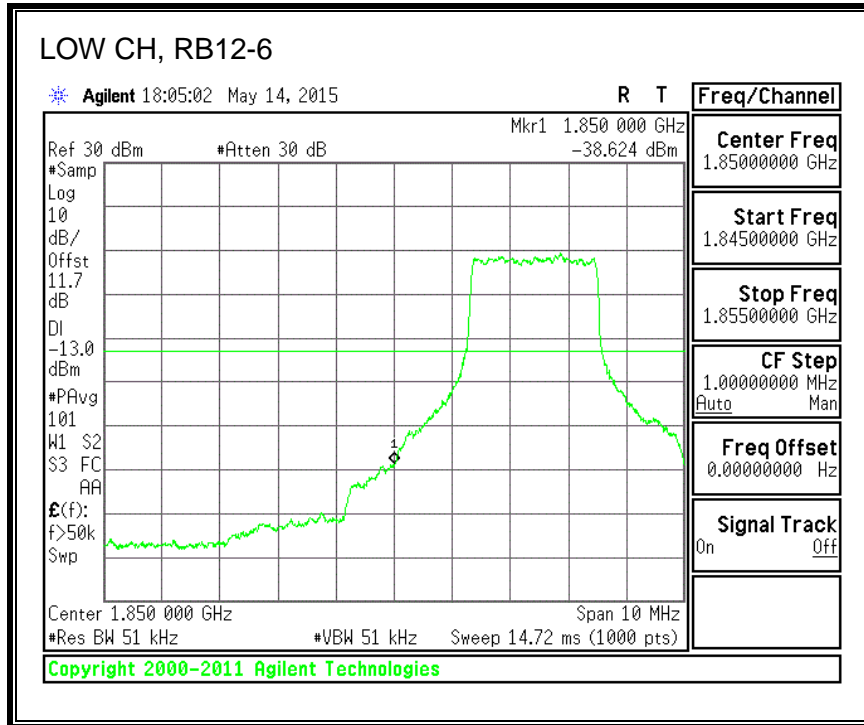


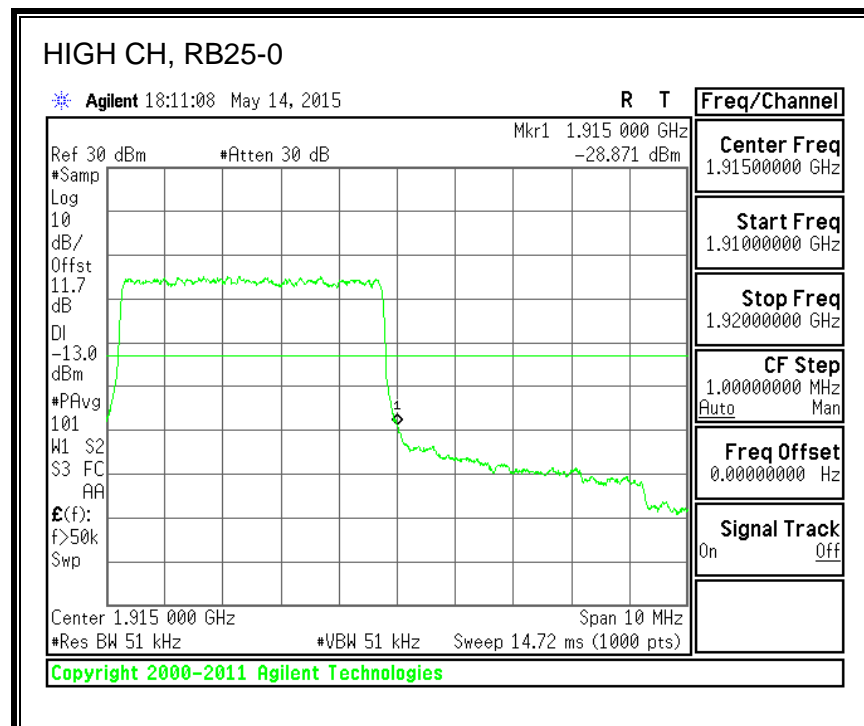
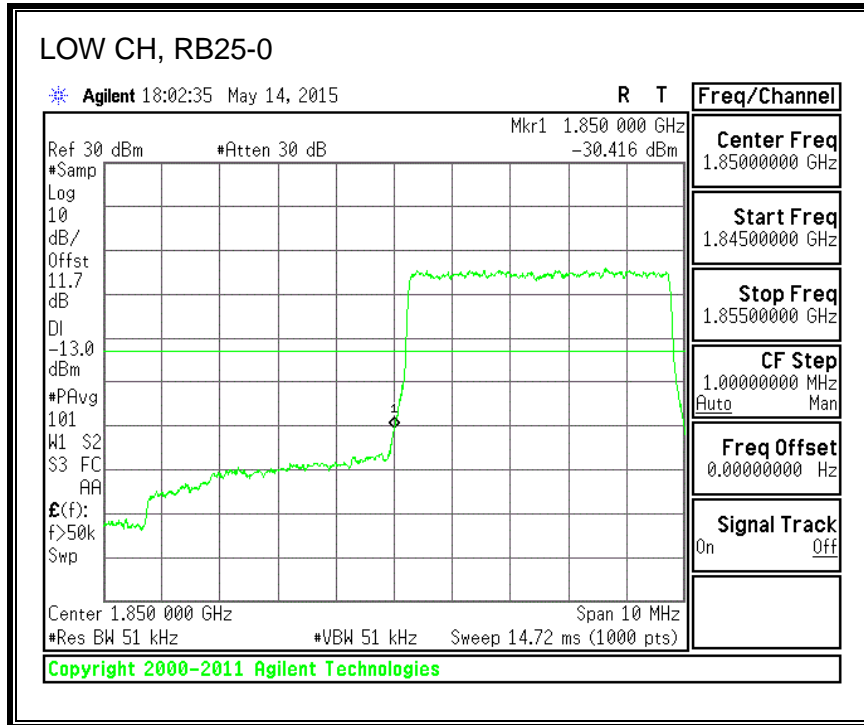


**QPSK, (5.0 MHz BAND WIDTH)**

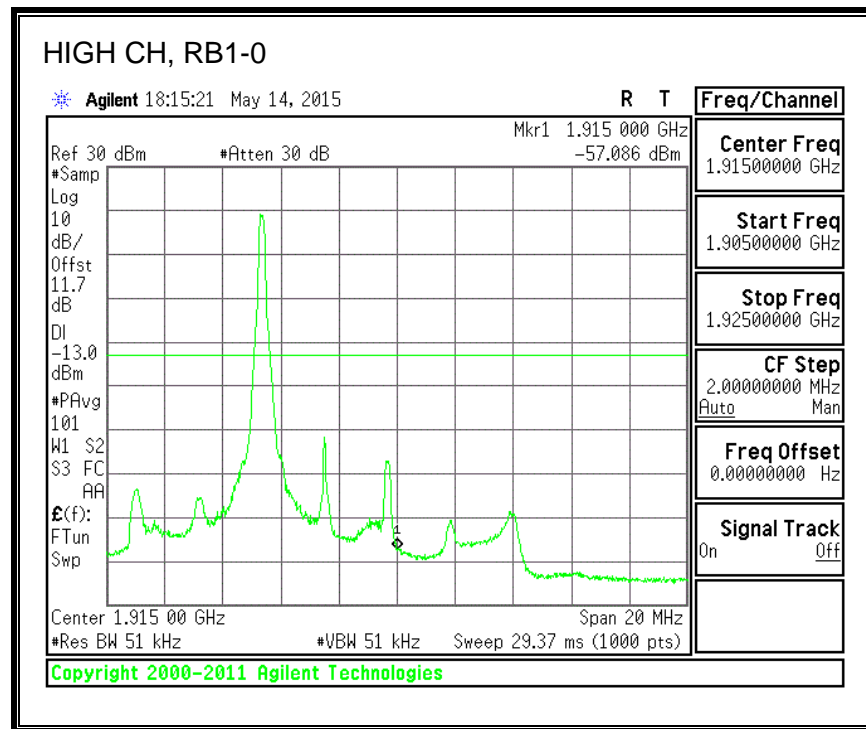
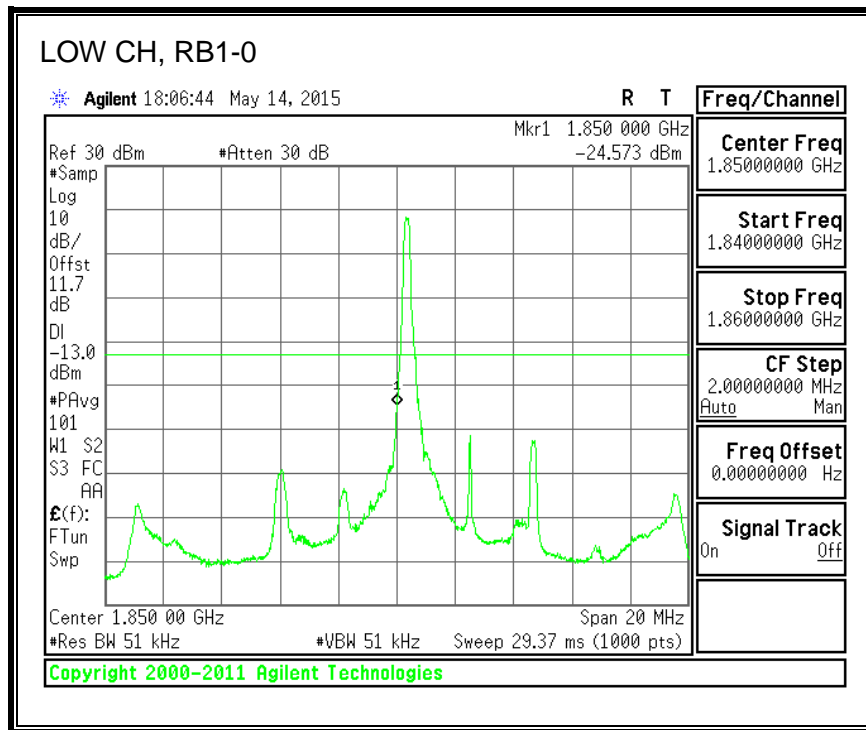


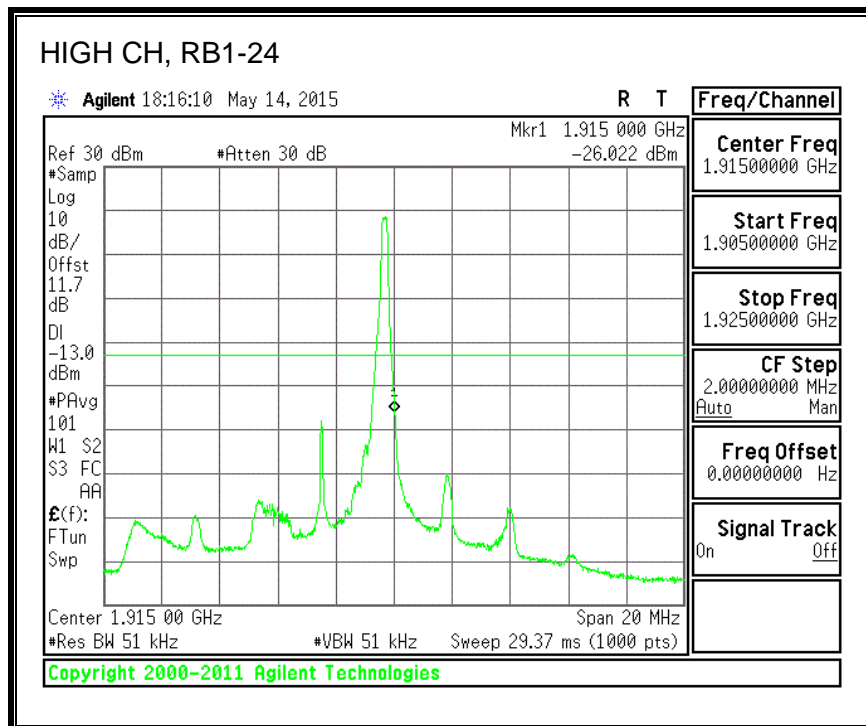
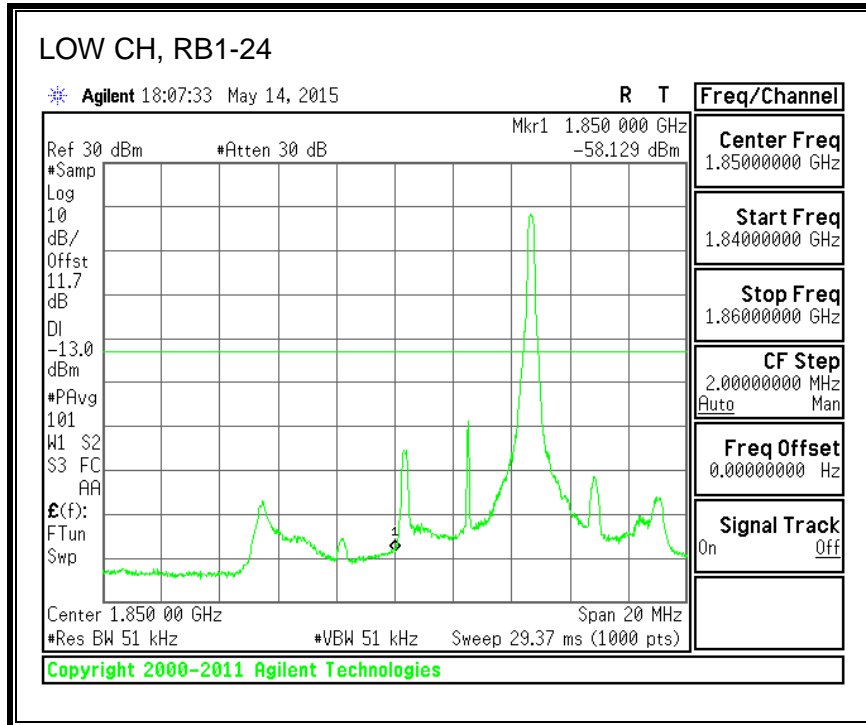




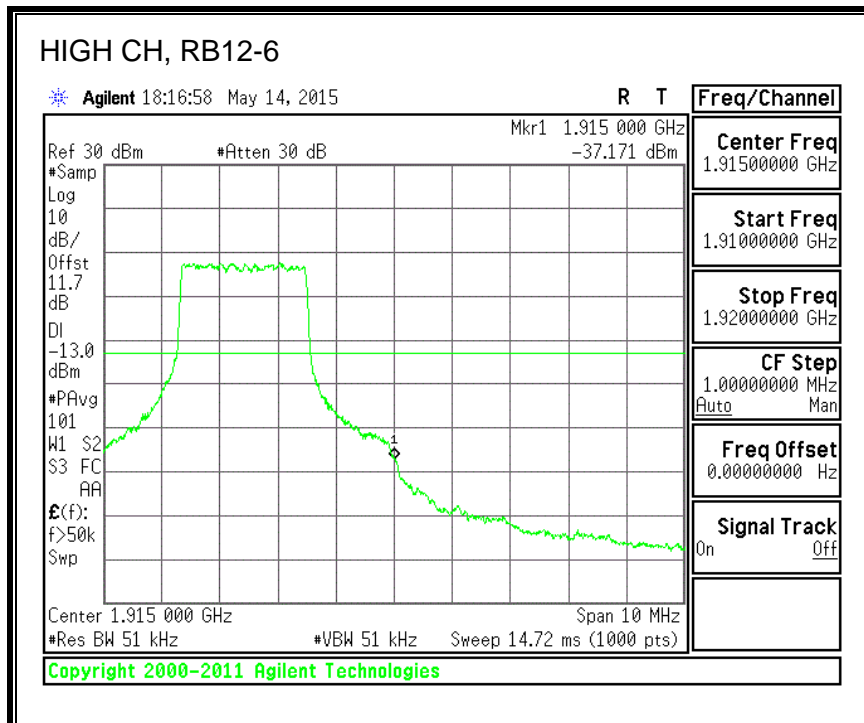
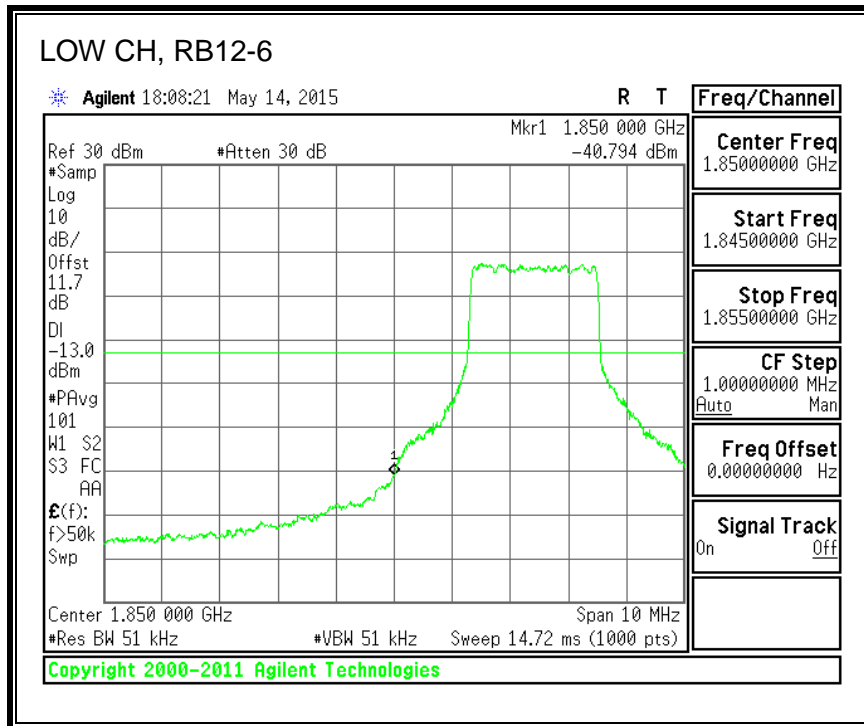


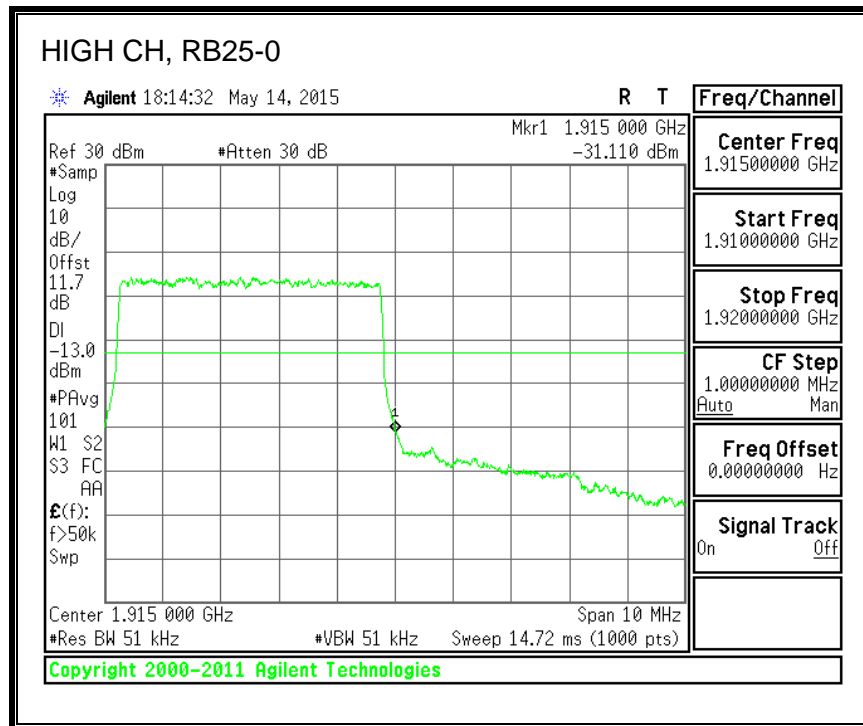
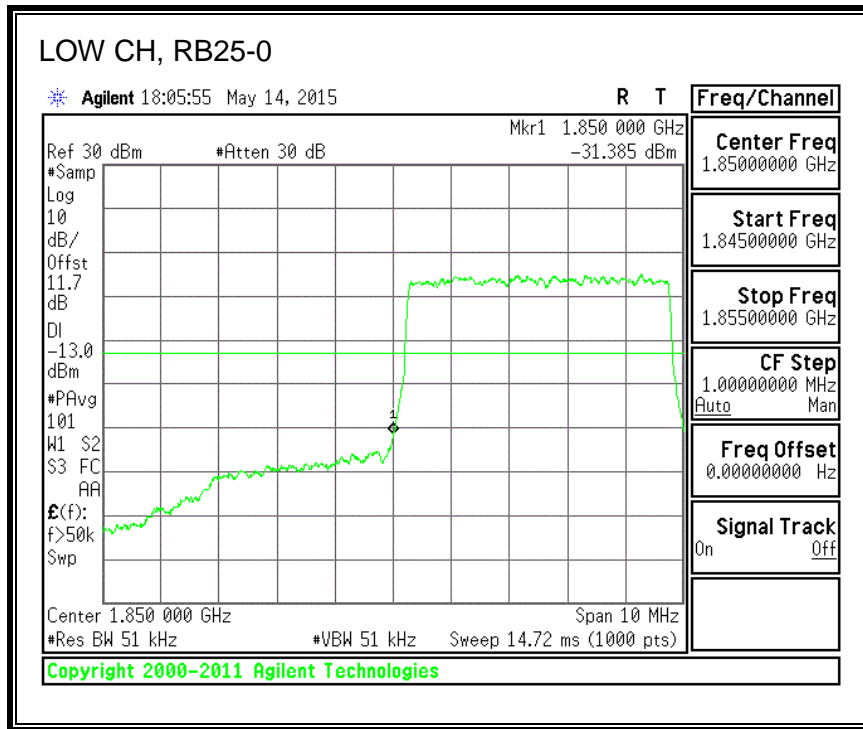
**16QAM, (5.0 MHz BAND WIDTH)**



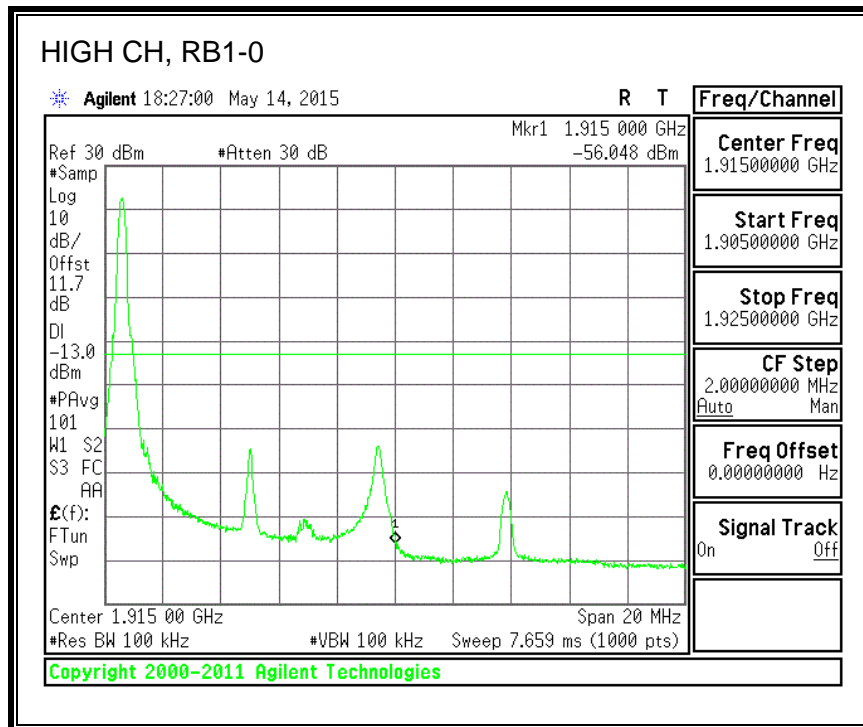
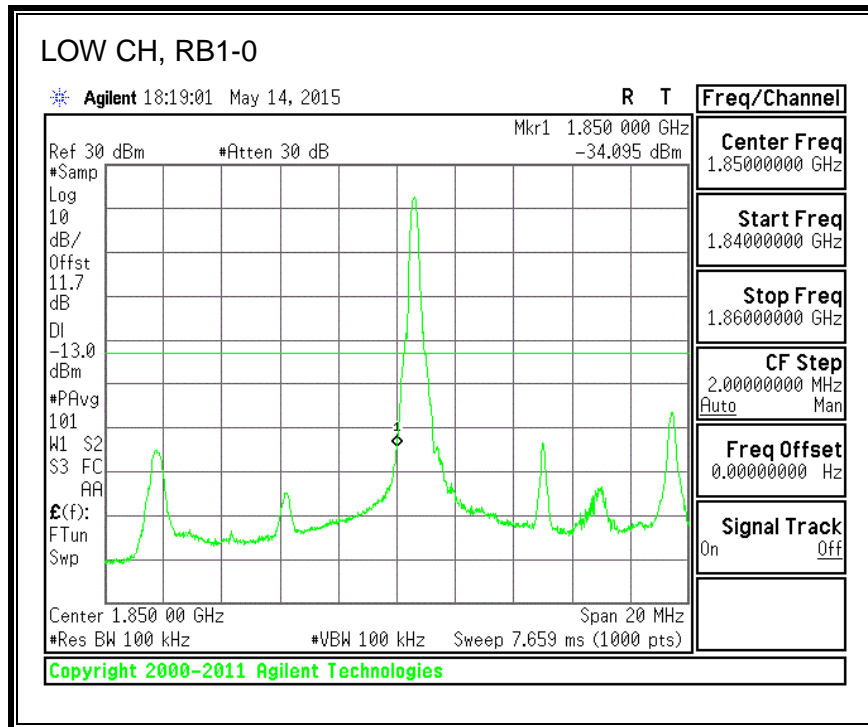


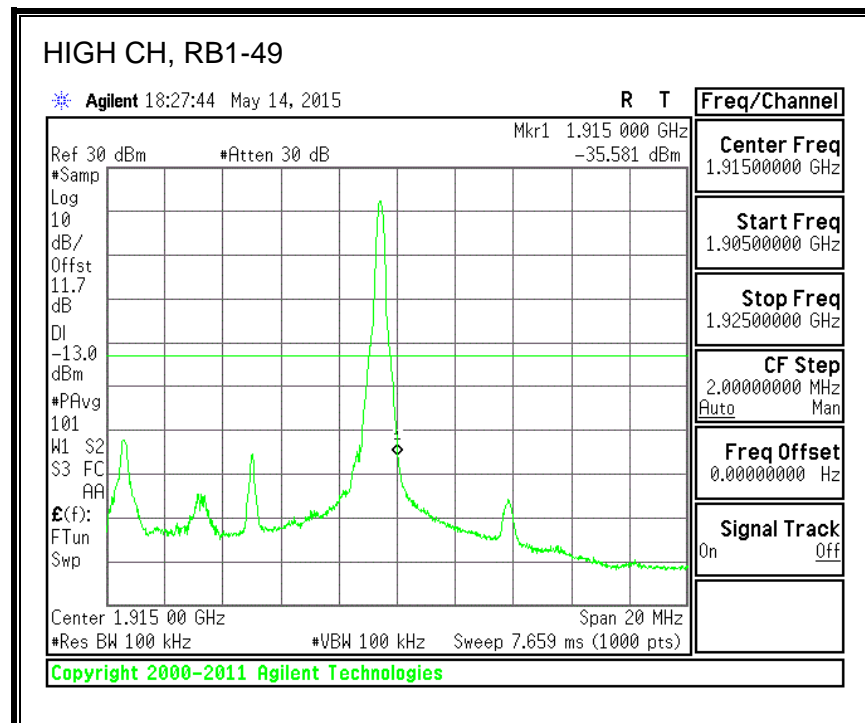
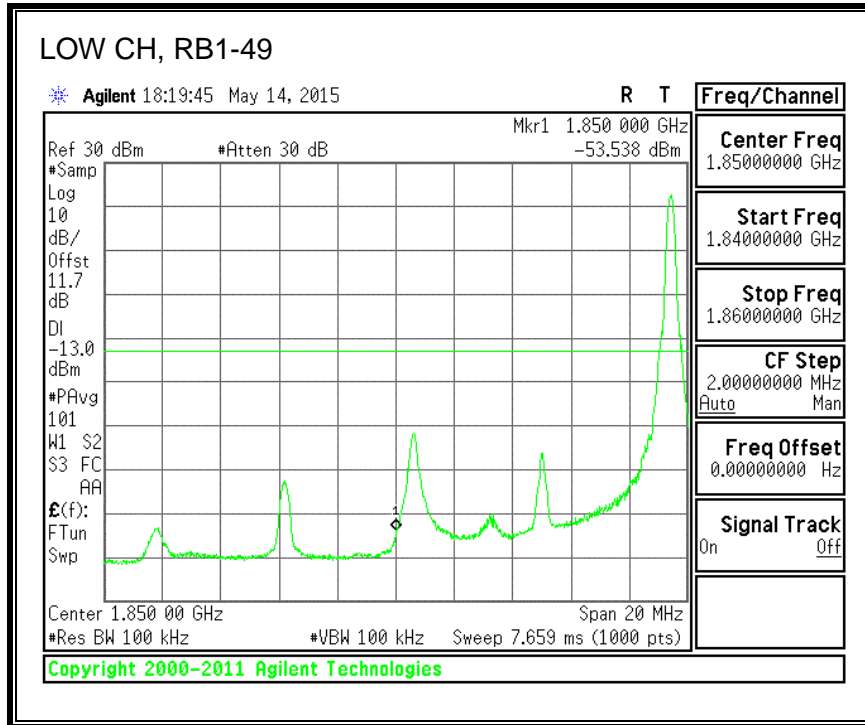


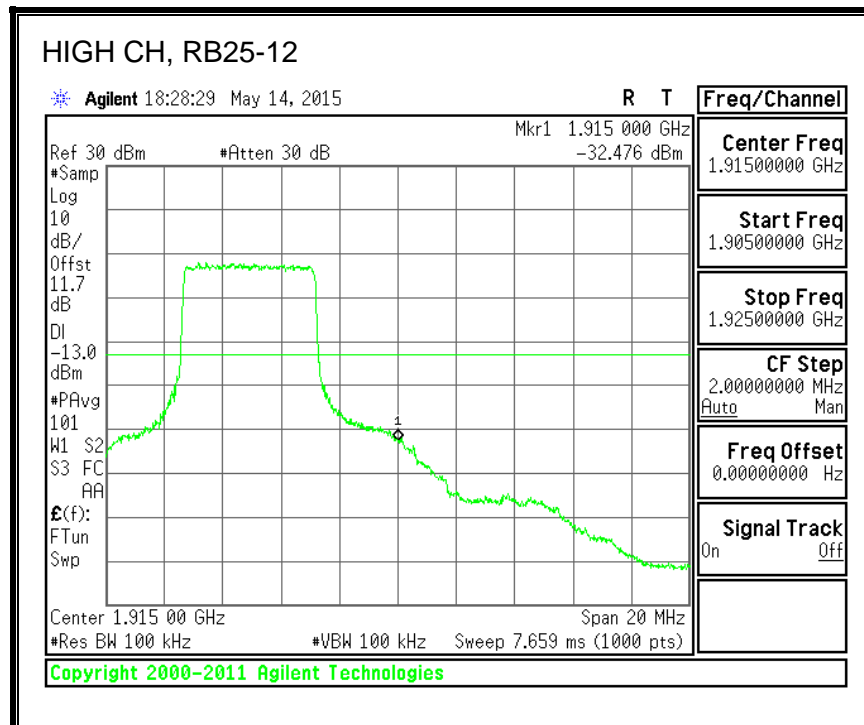
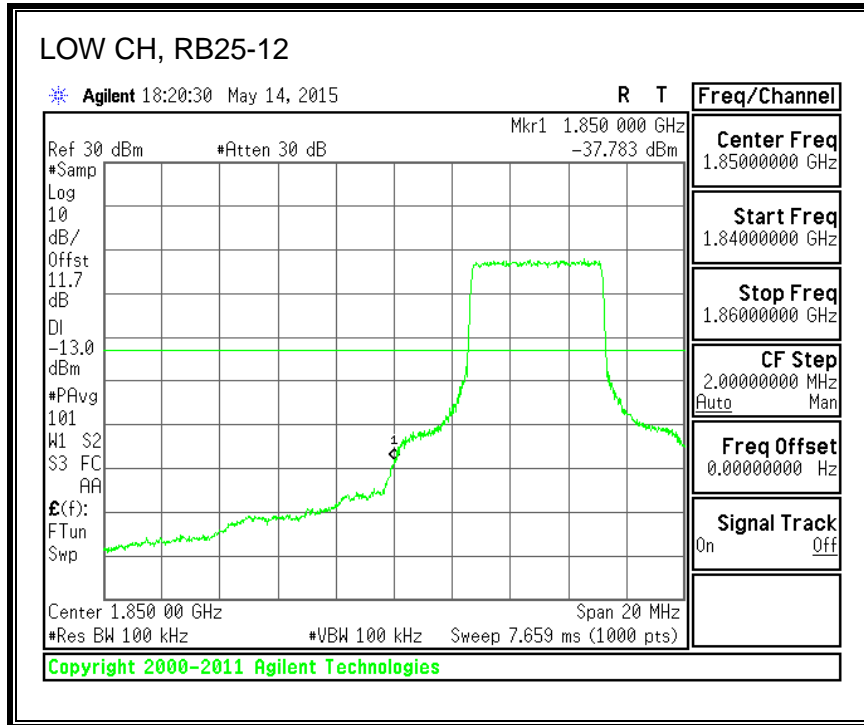


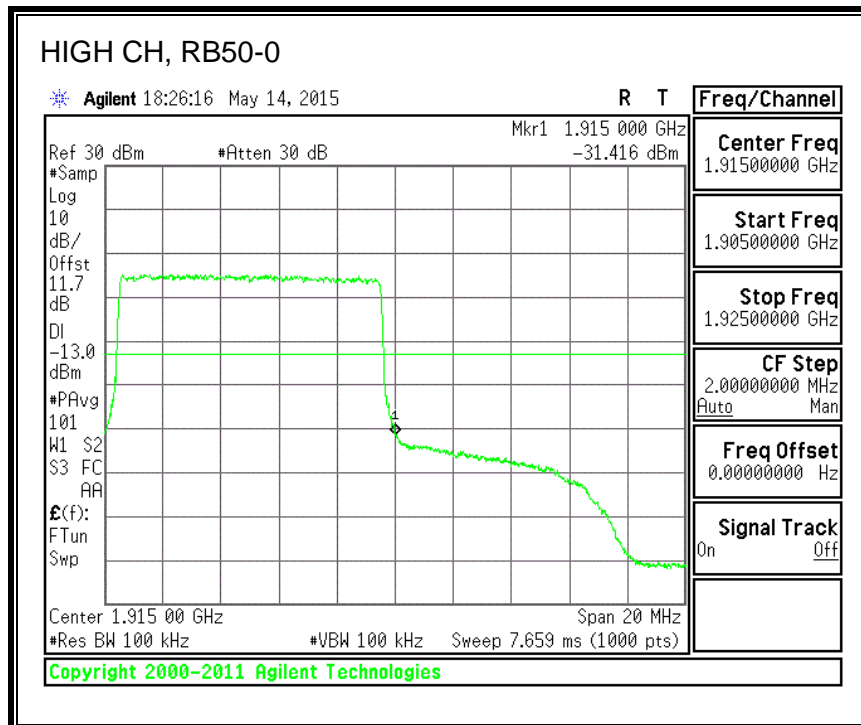
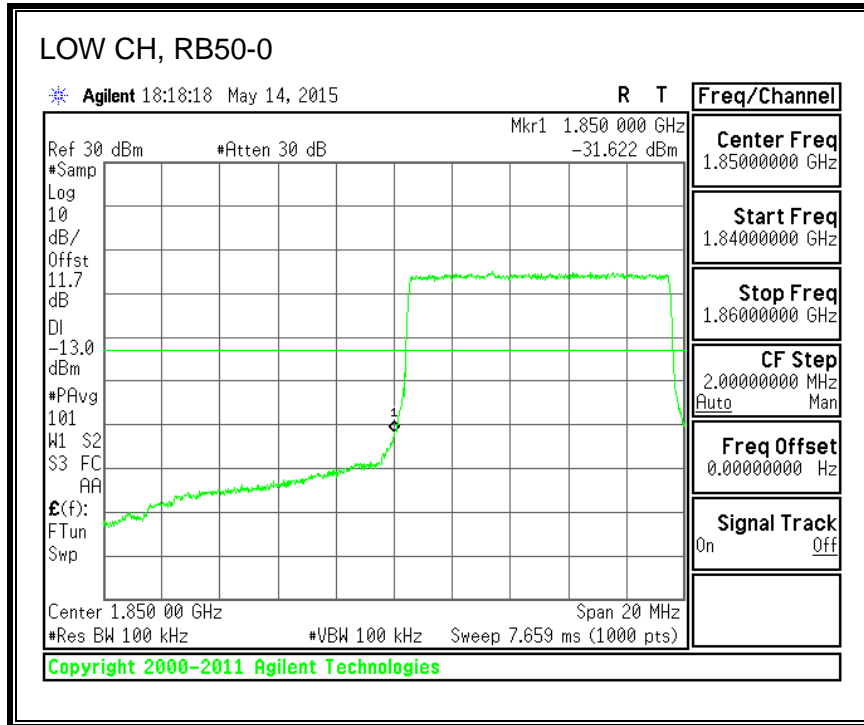


**QPSK, (10.0 MHz BAND WIDTH)**

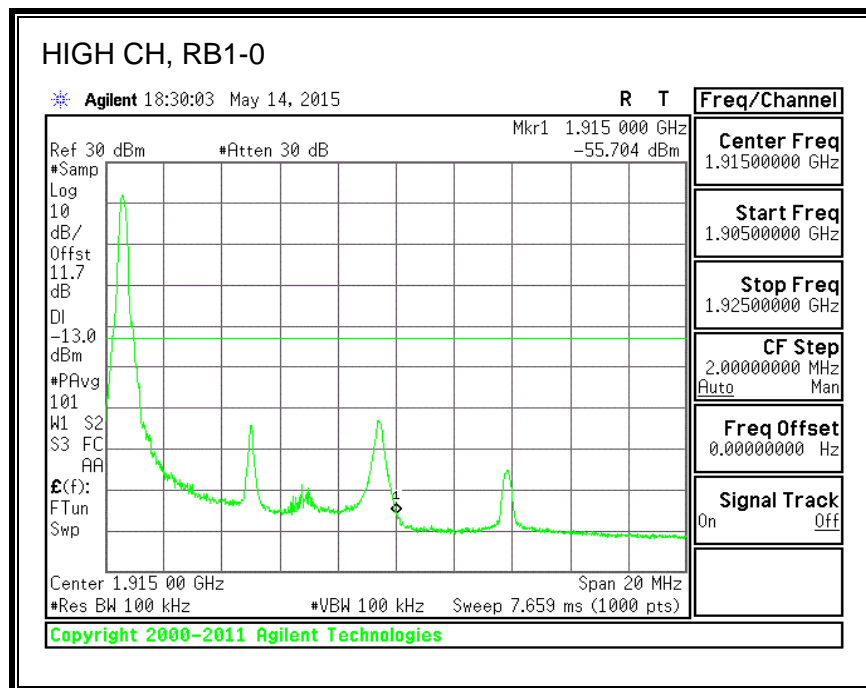
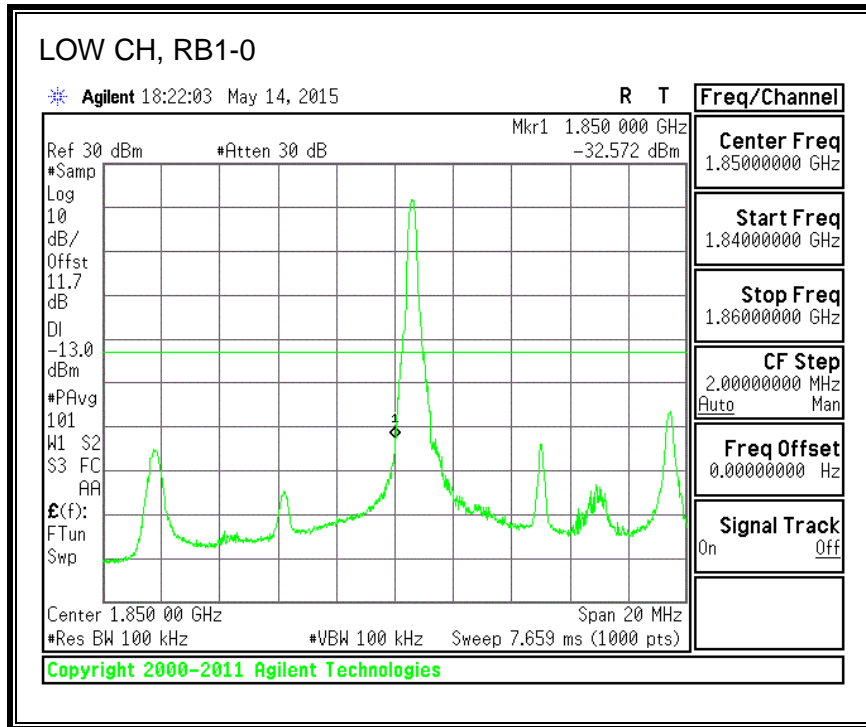


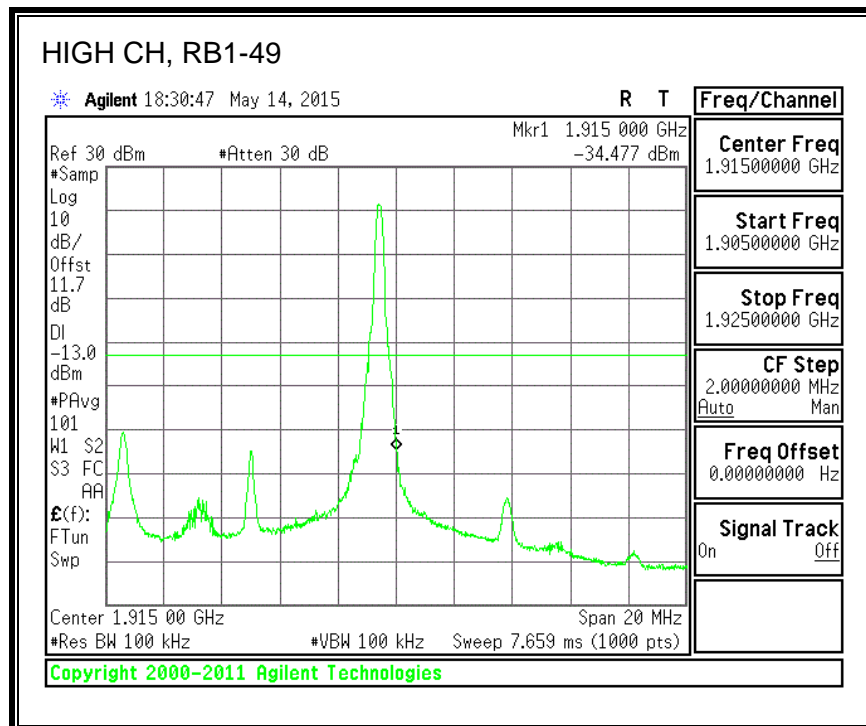
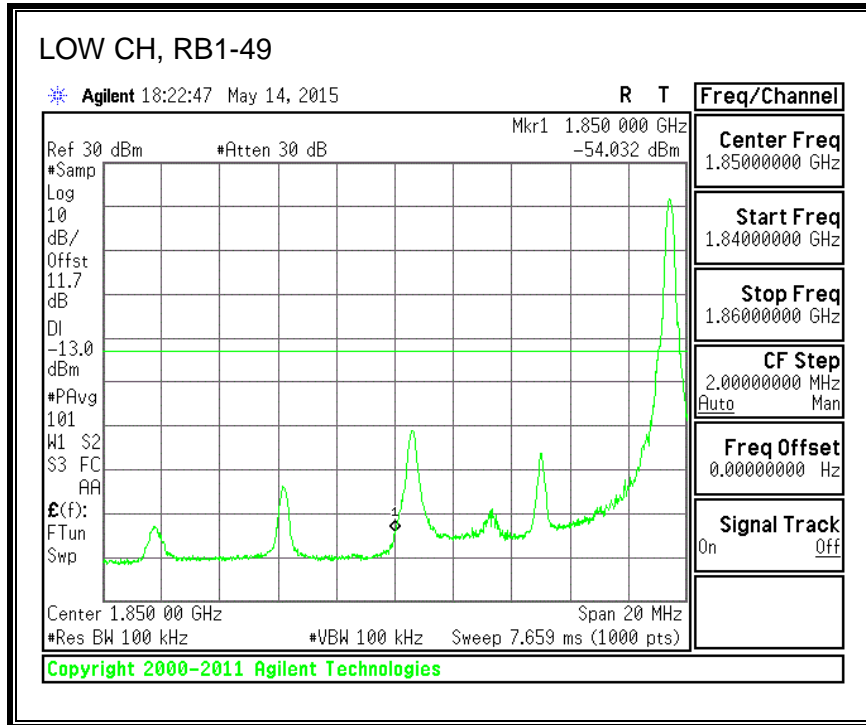




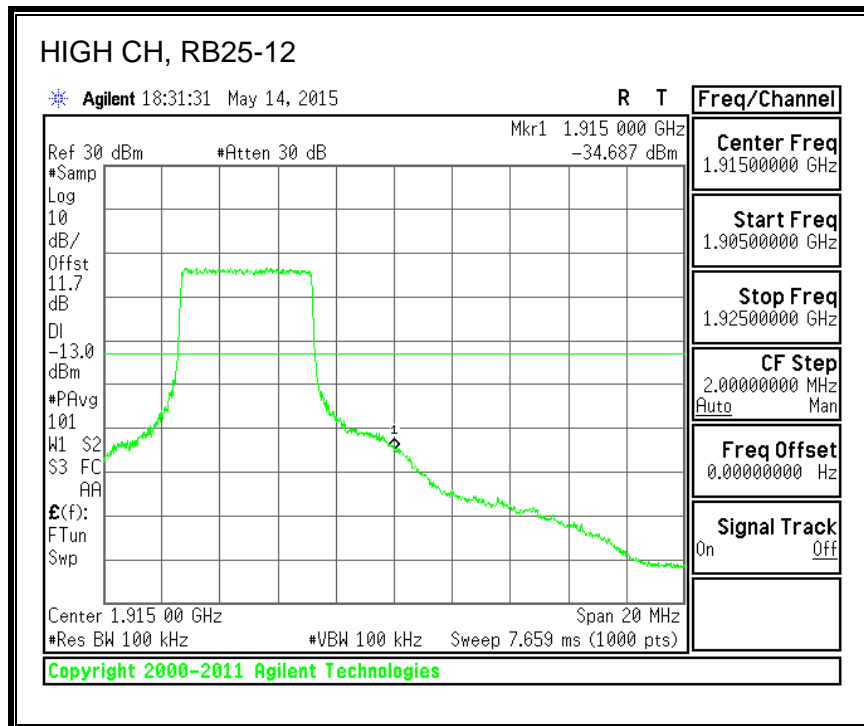
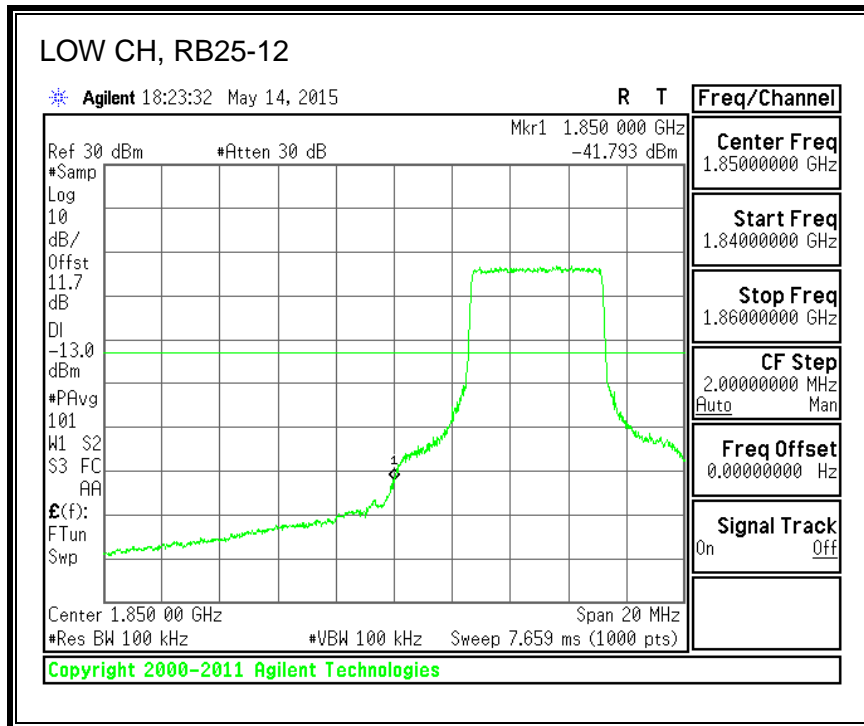


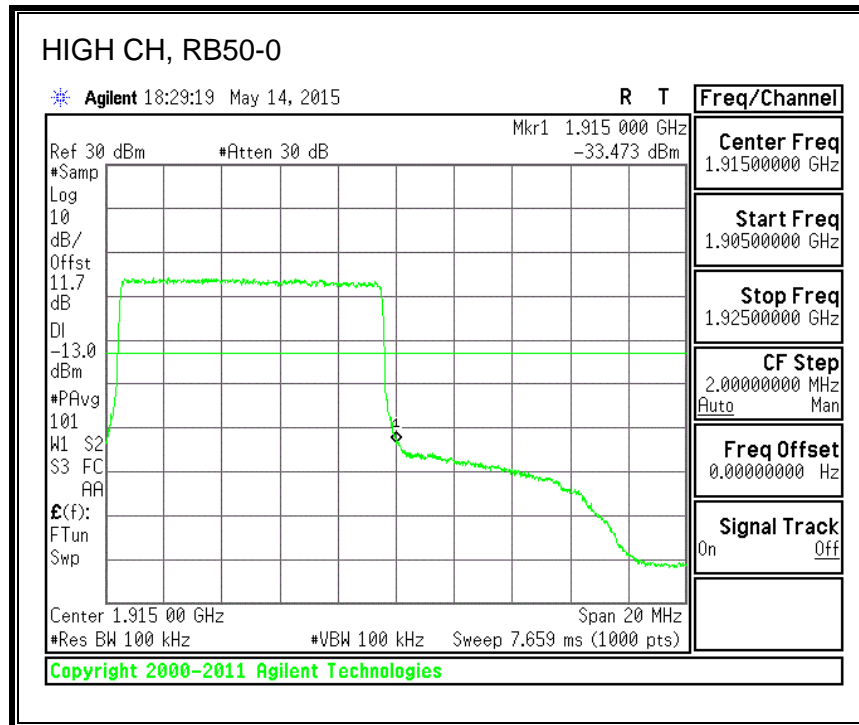
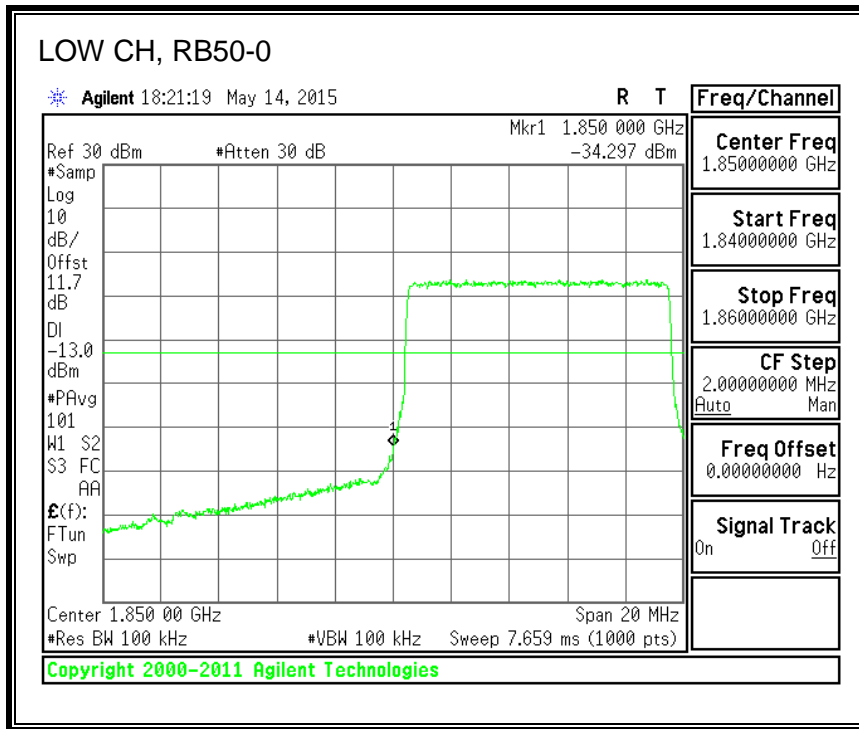
**16QAM, (10.0 MHz BAND WIDTH)**



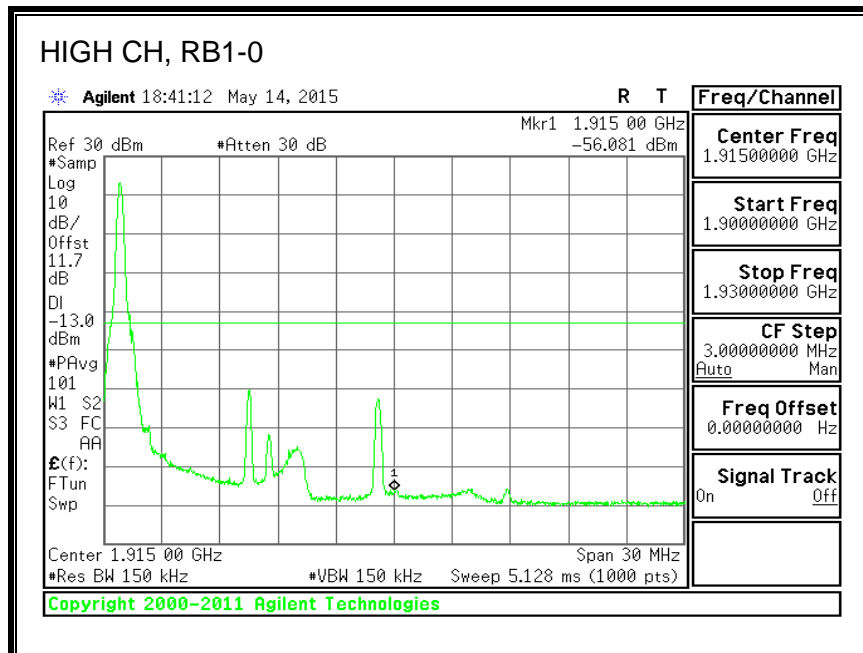
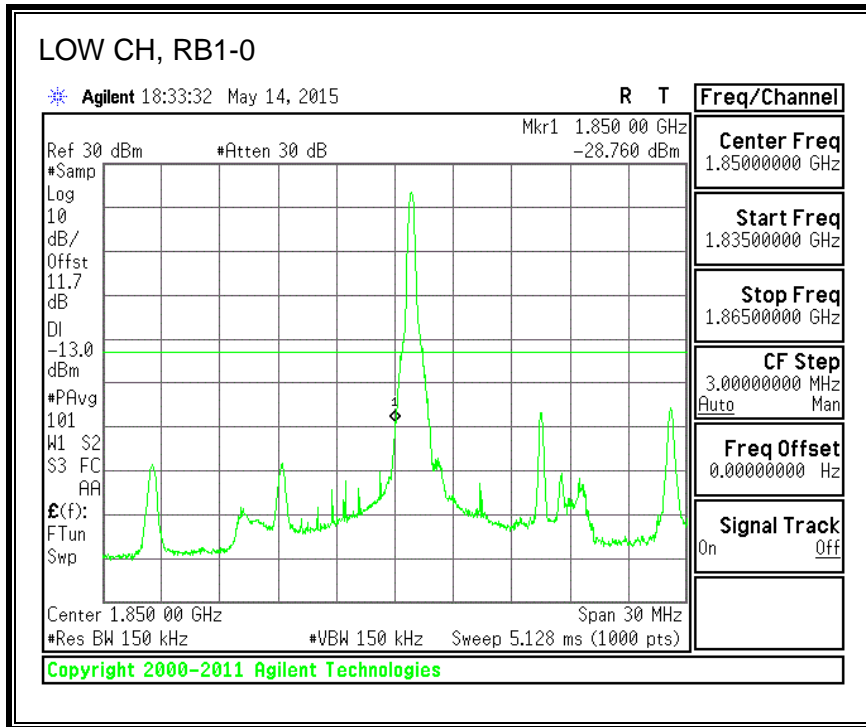


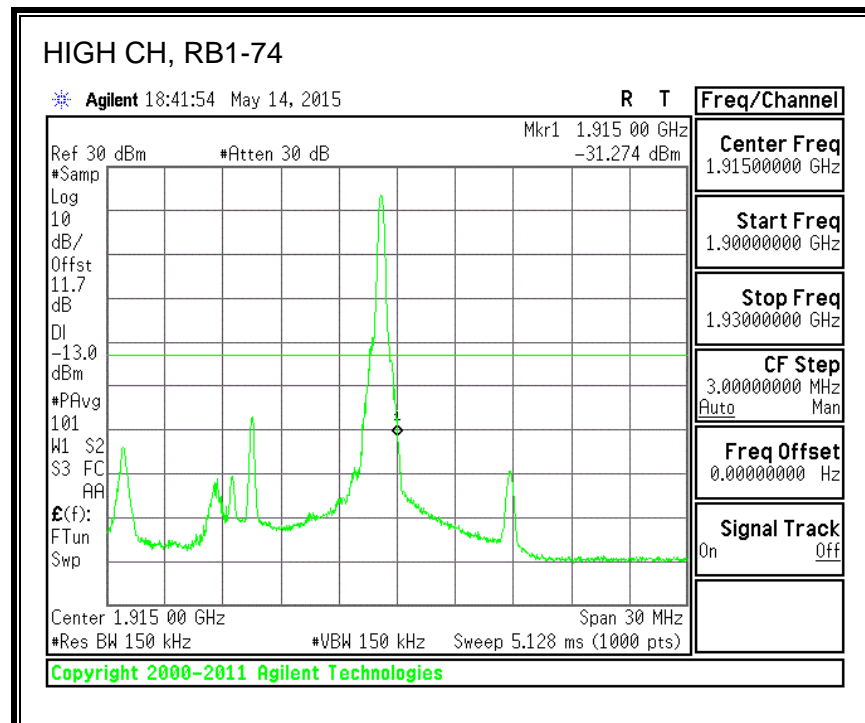
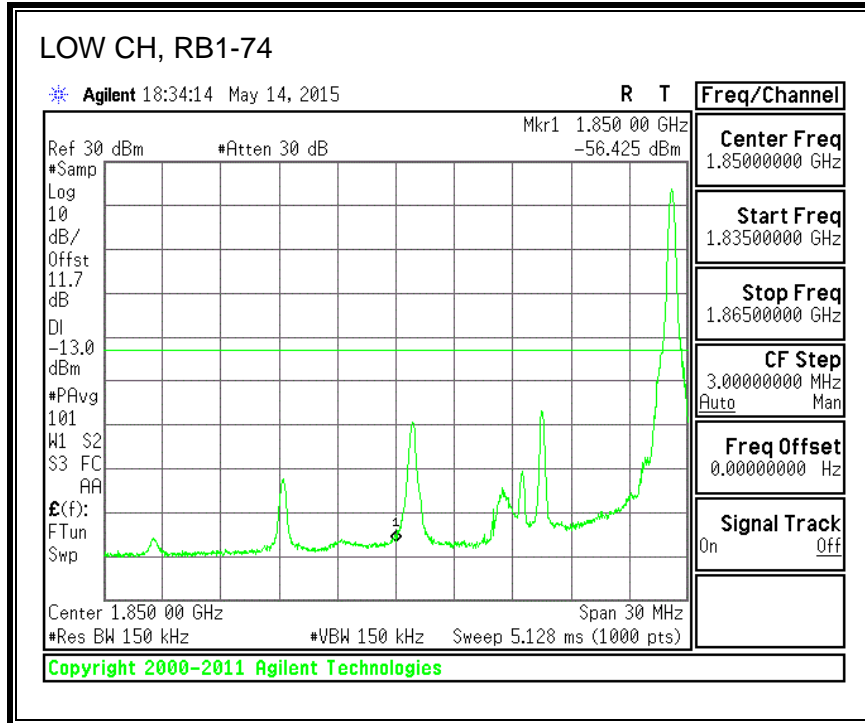


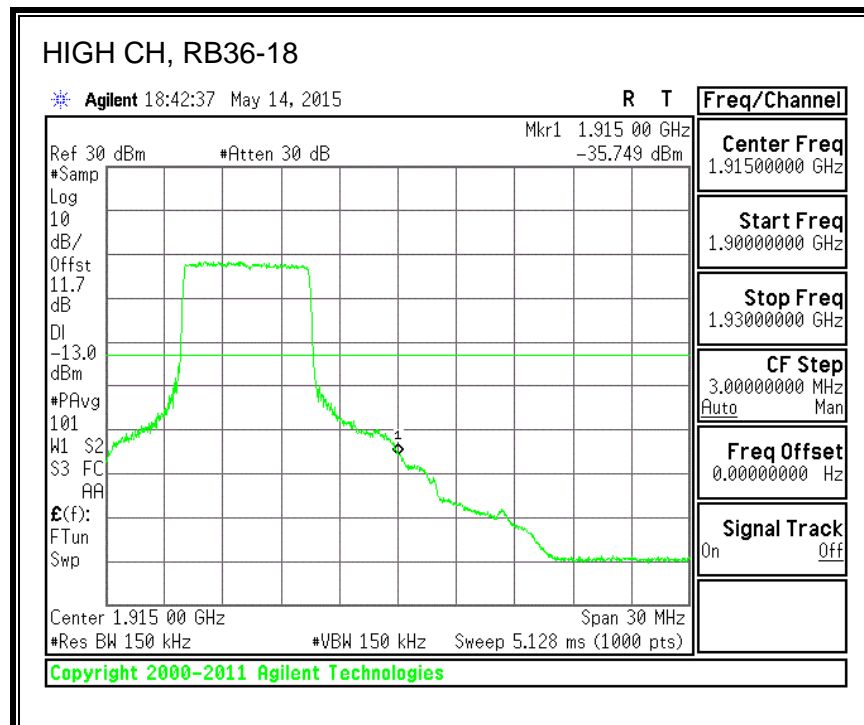
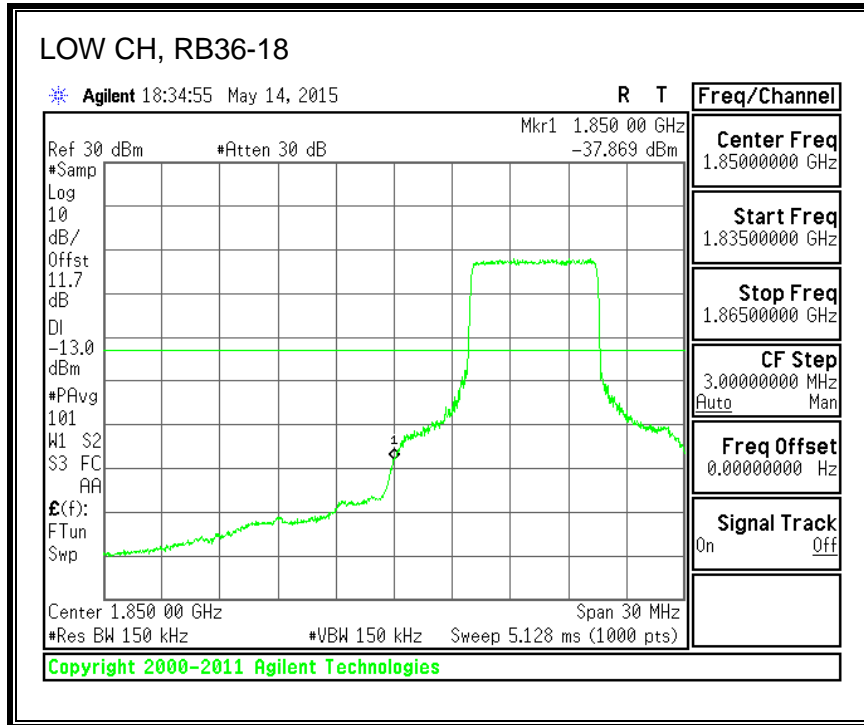


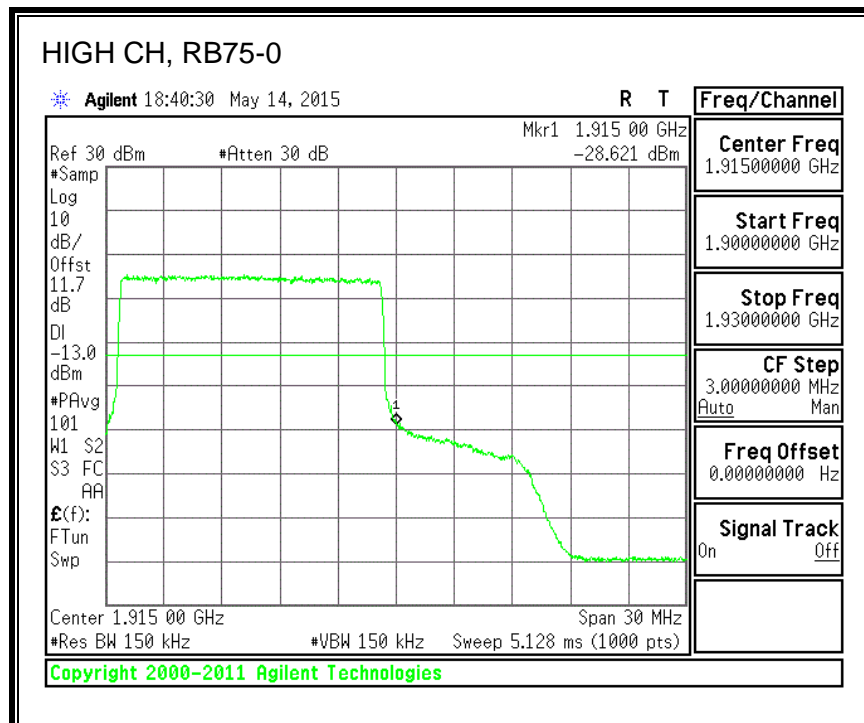
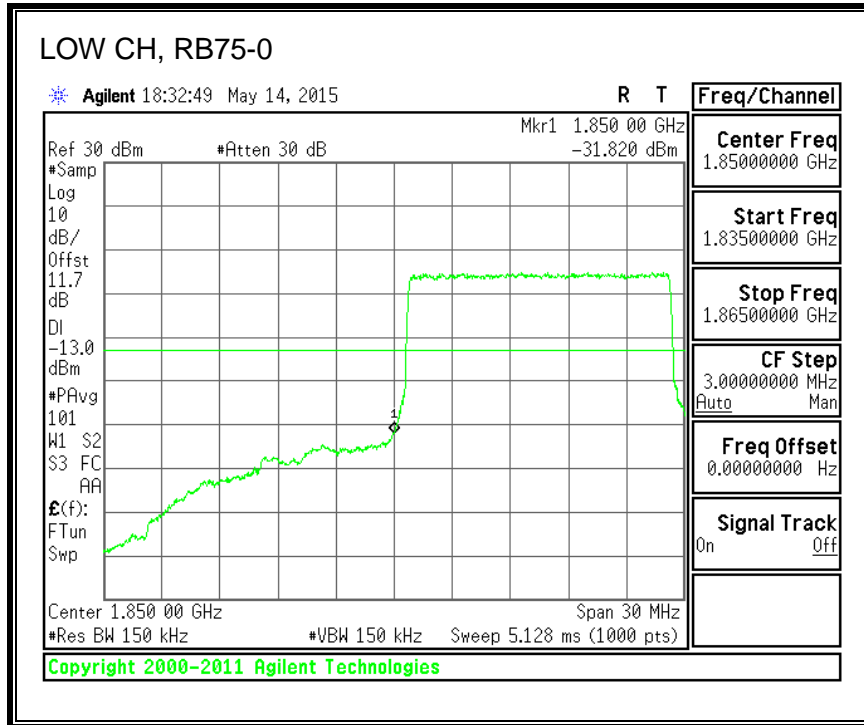


**QPSK, (15.0 MHz BAND WIDTH)**

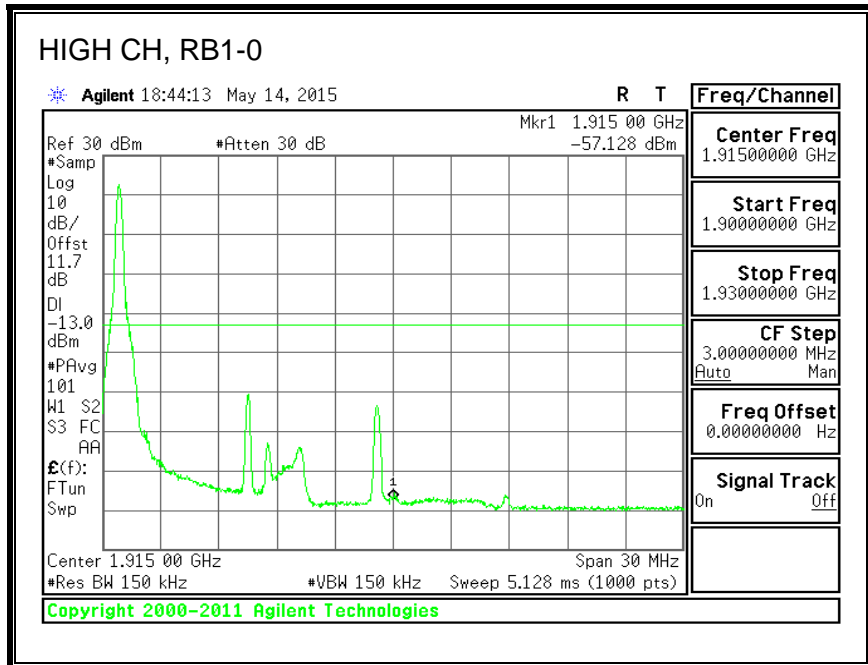
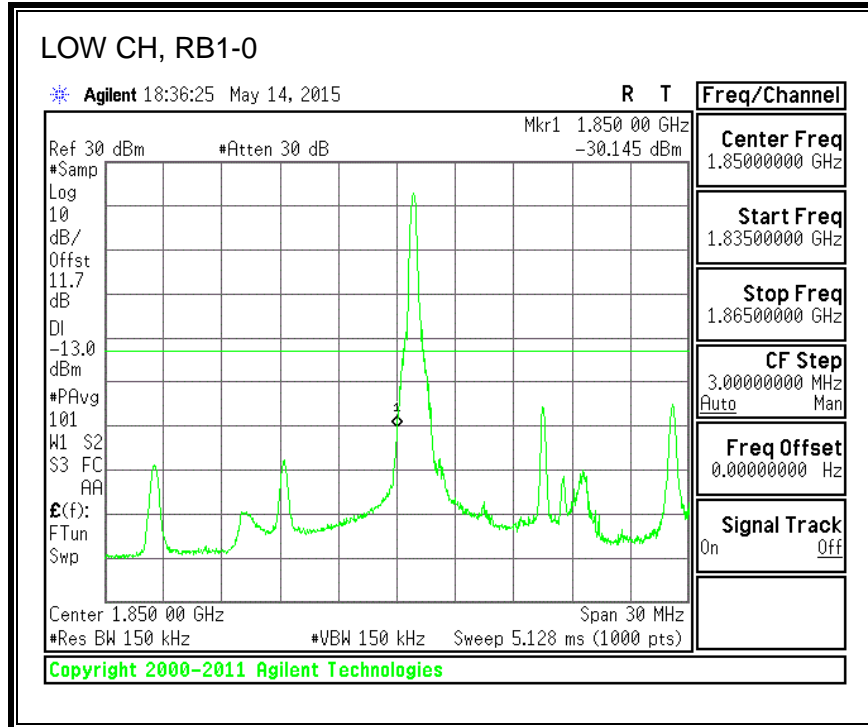


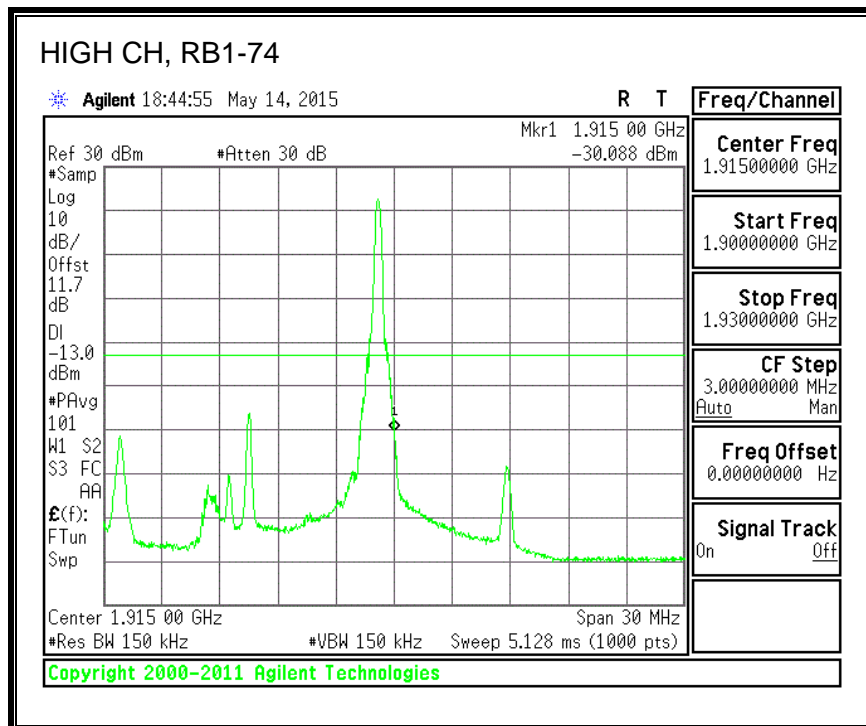
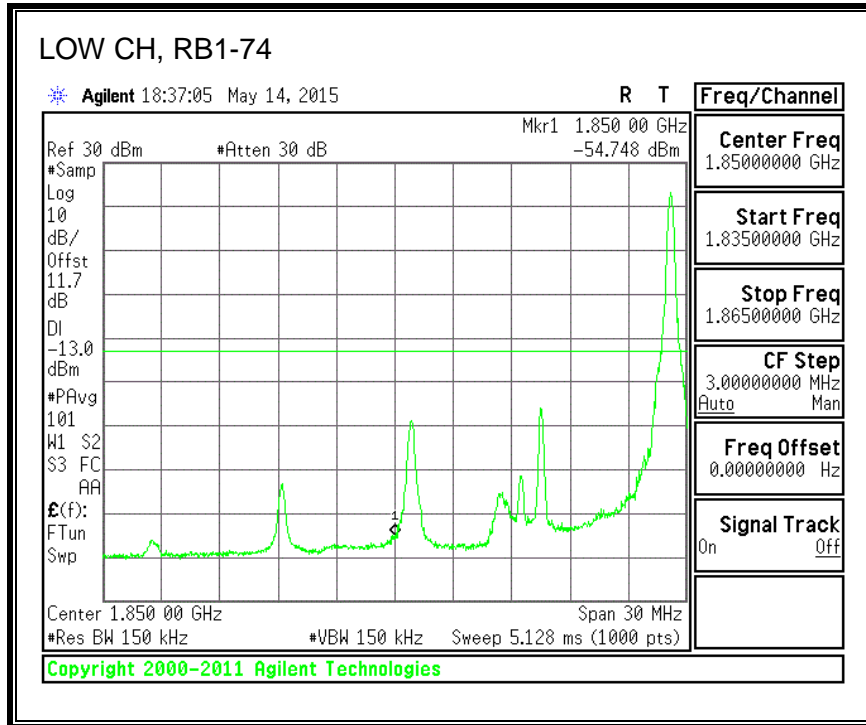




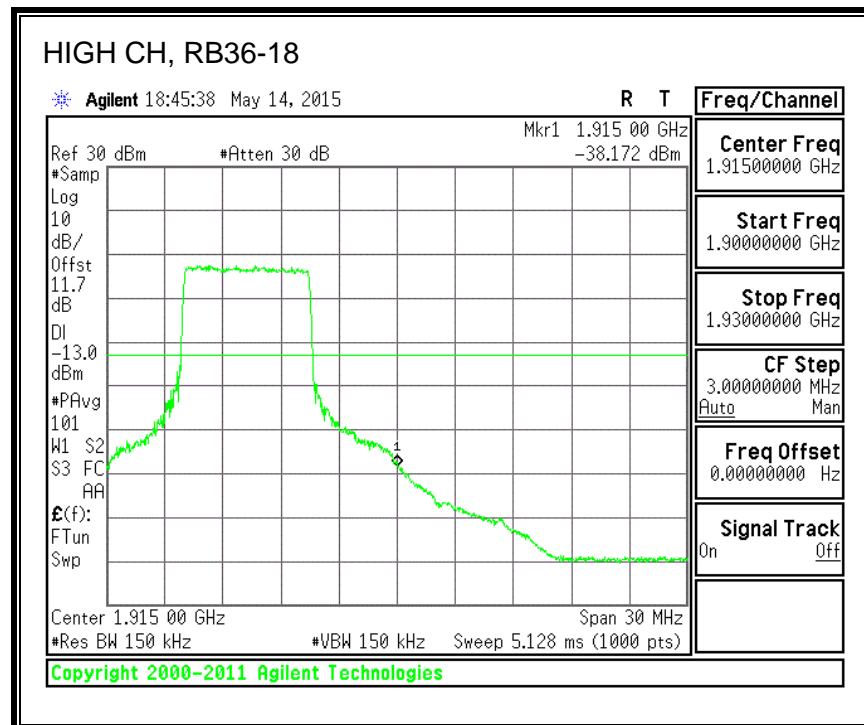
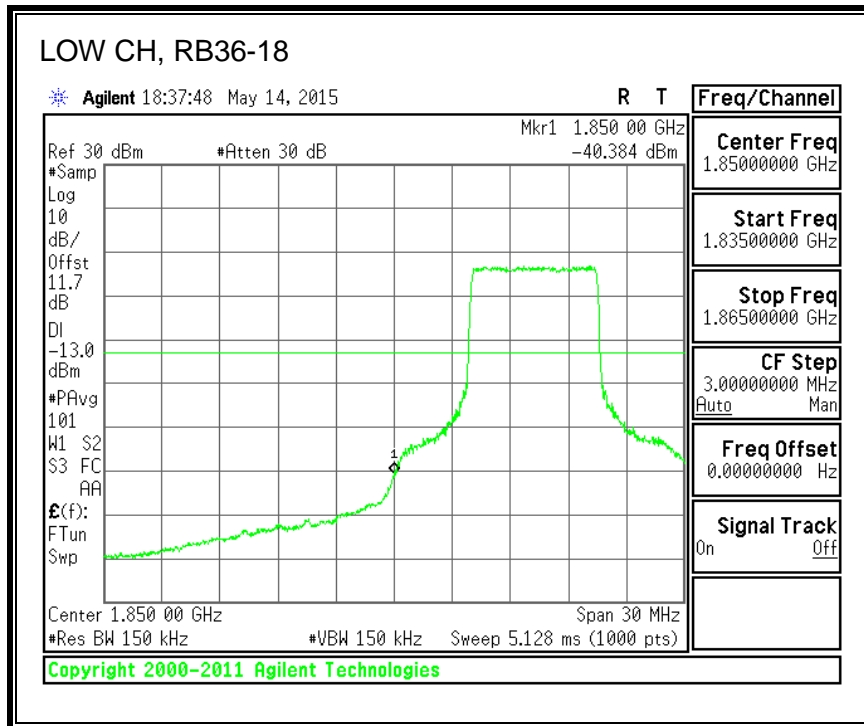


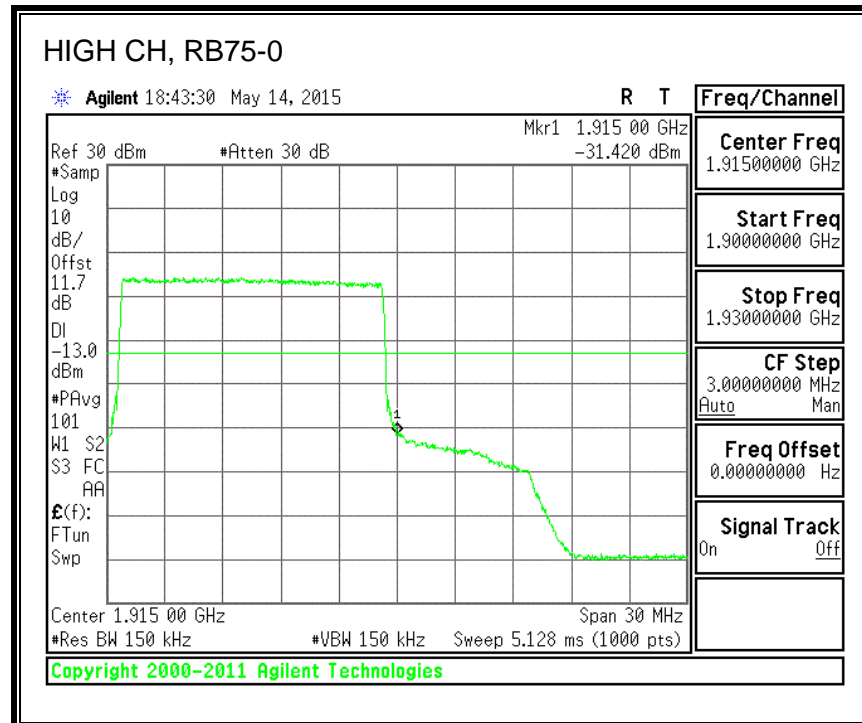
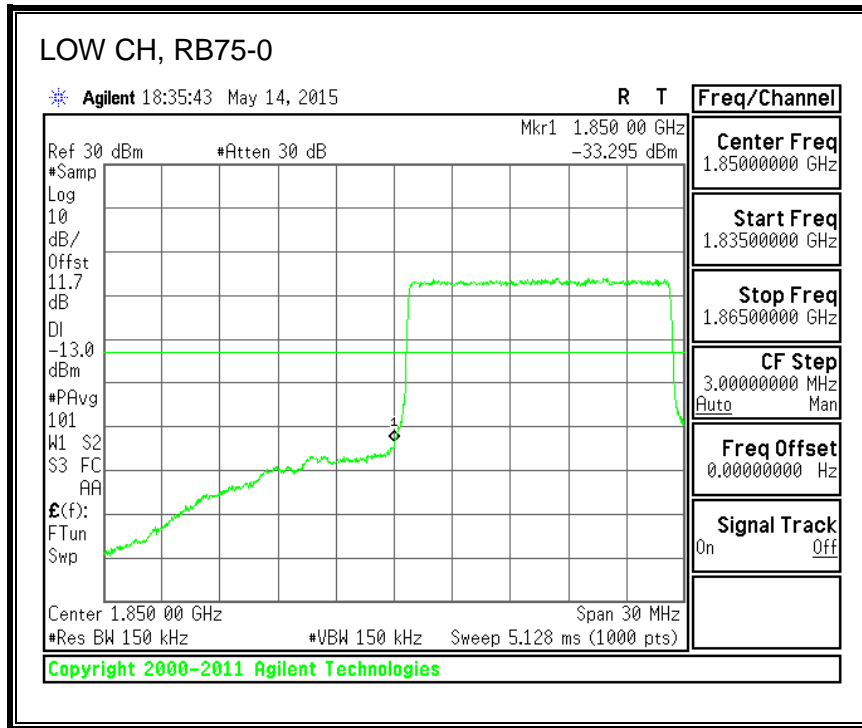
**16QAM, (15.0 MHz BAND WIDTH)**



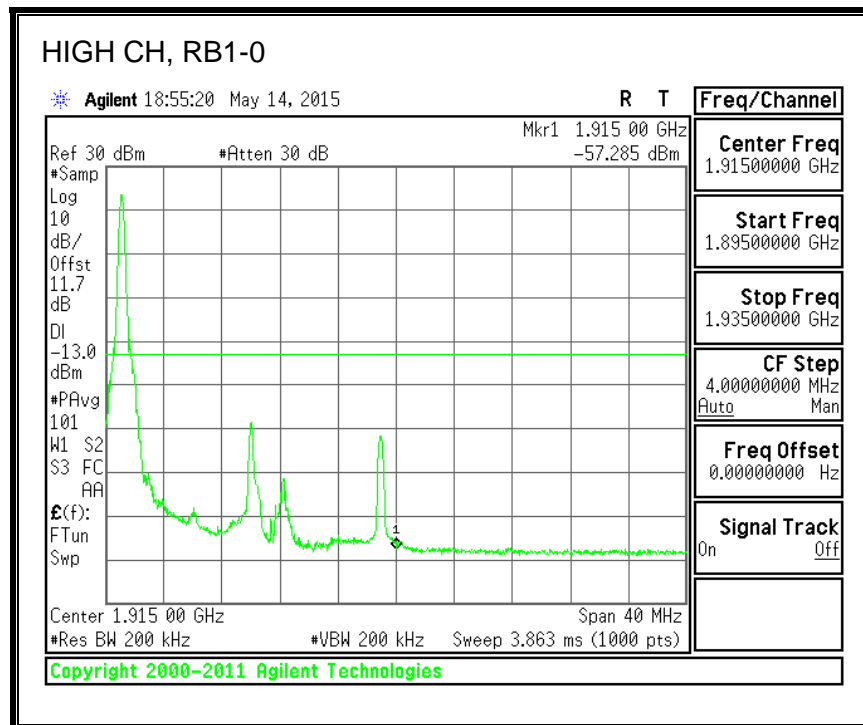
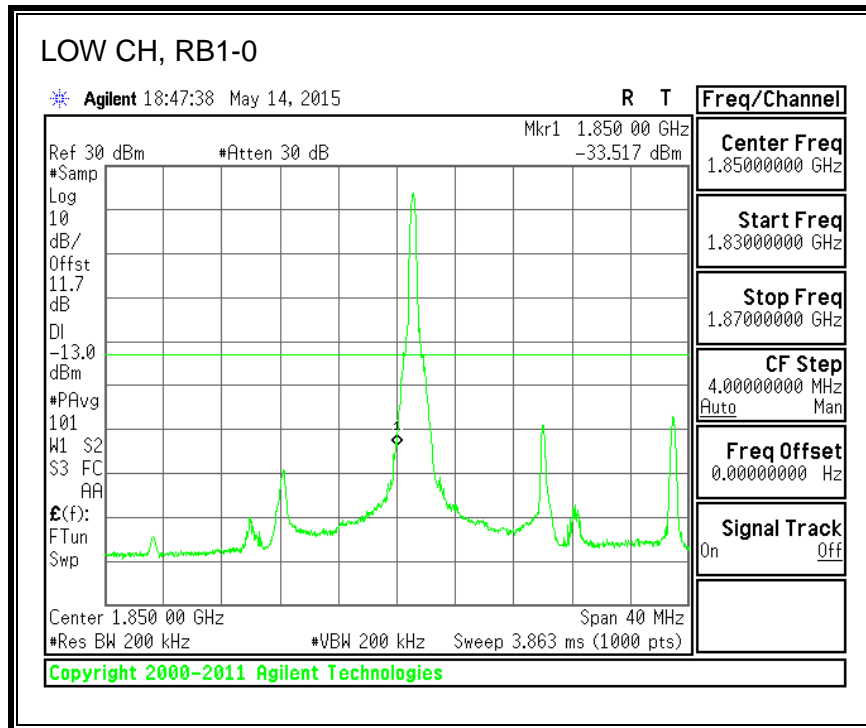


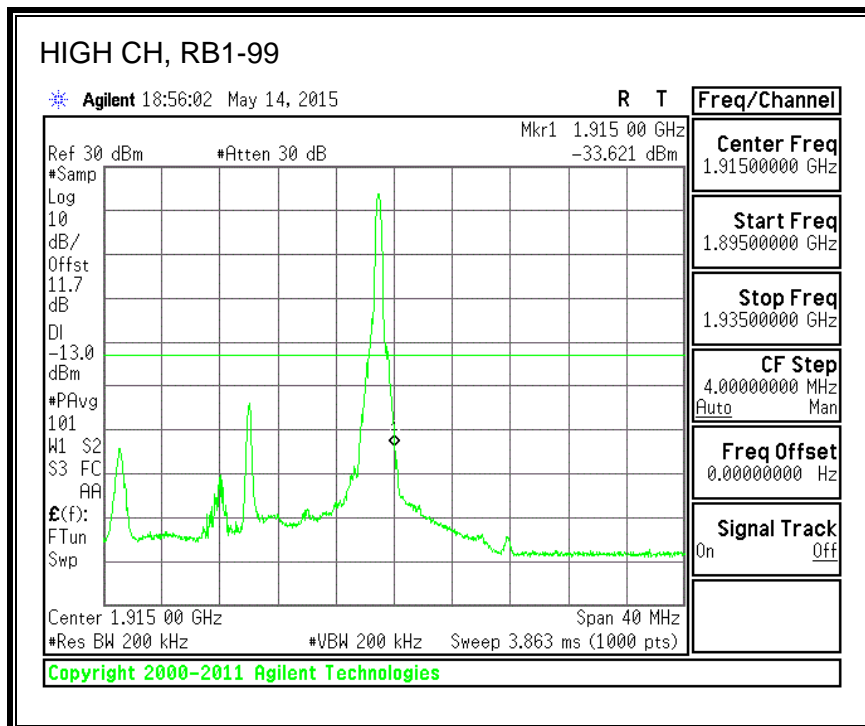
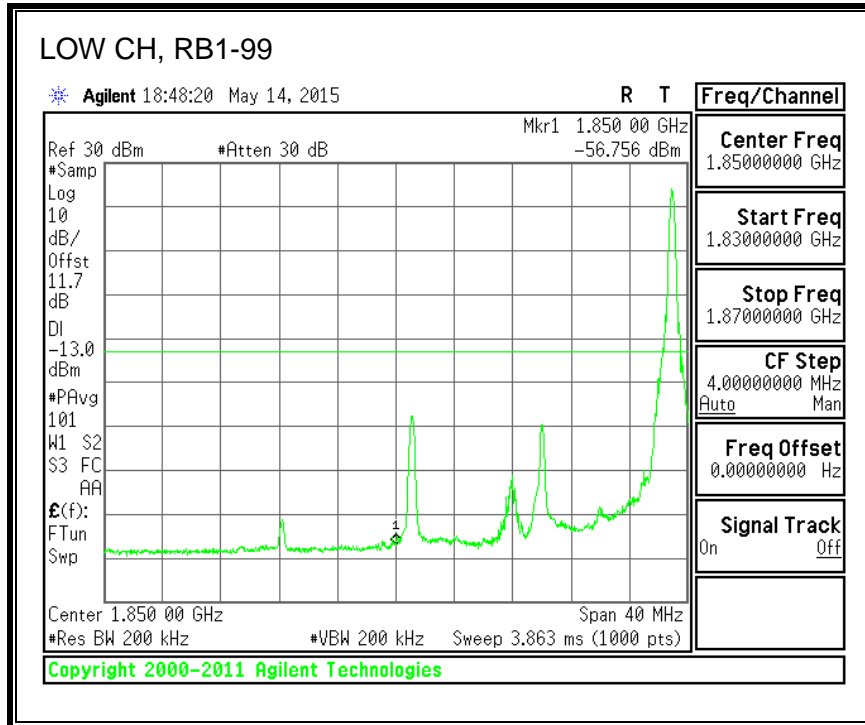


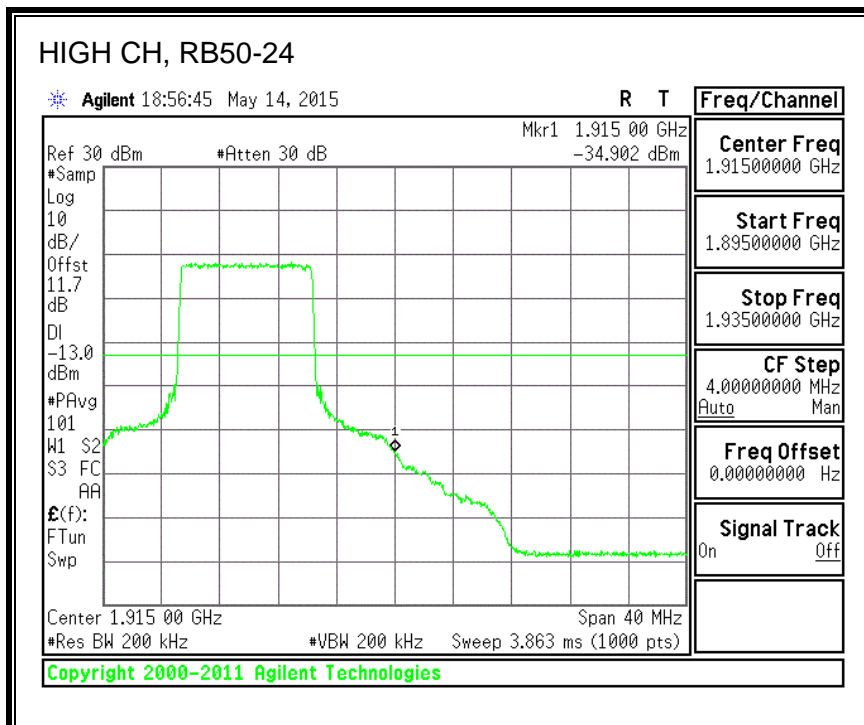
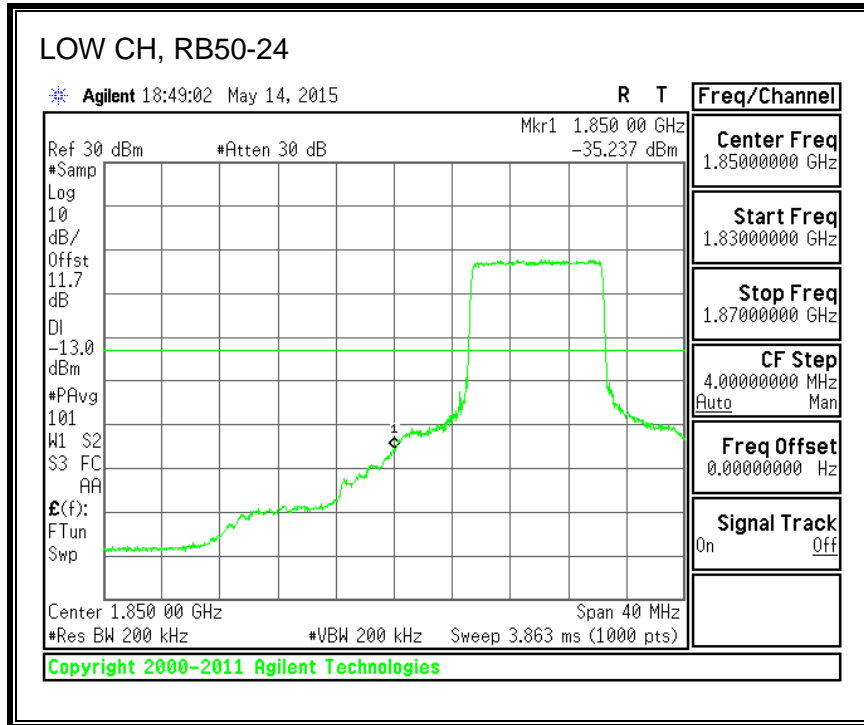


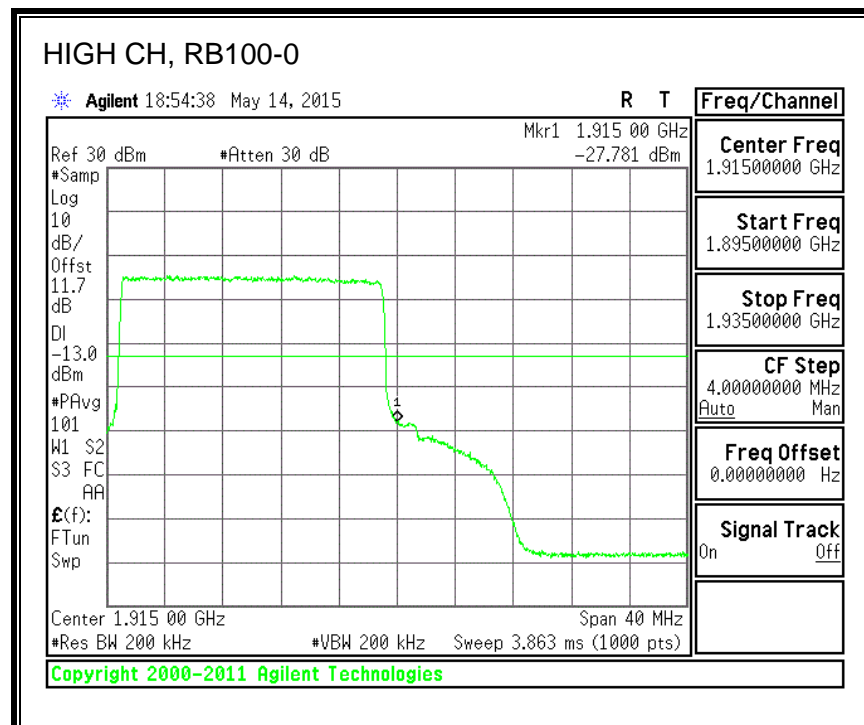
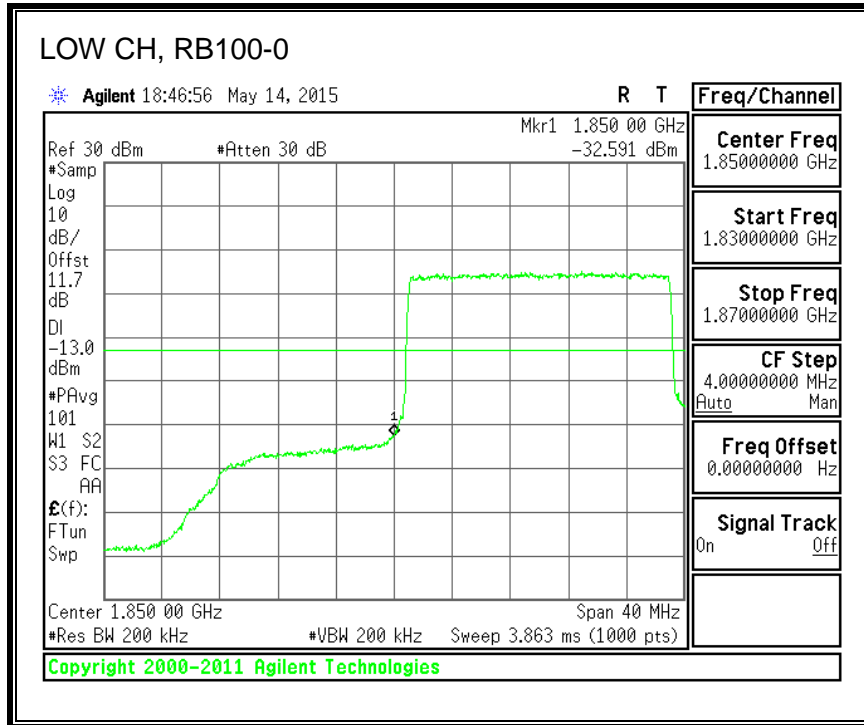


**QPSK, (20.0 MHz BAND WIDTH)**

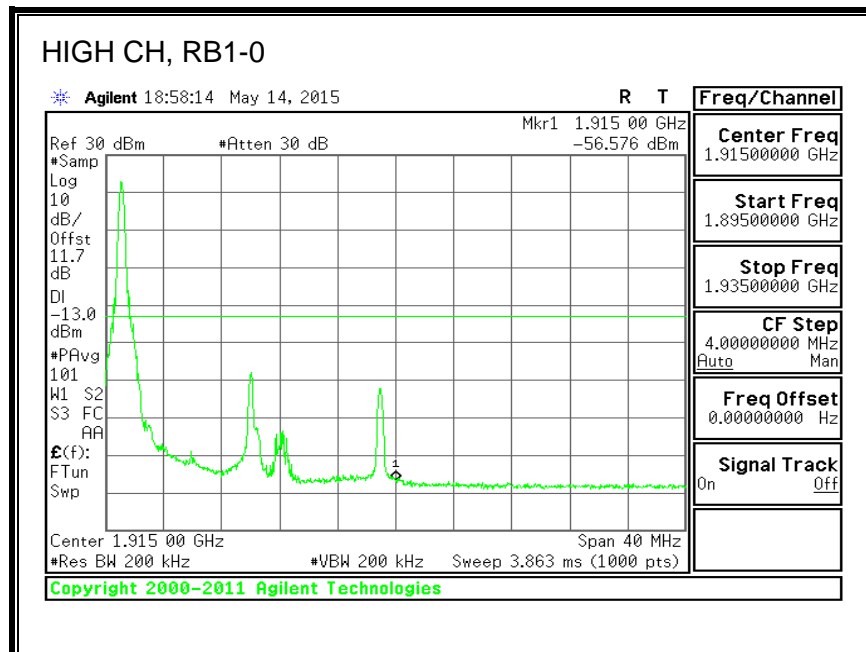
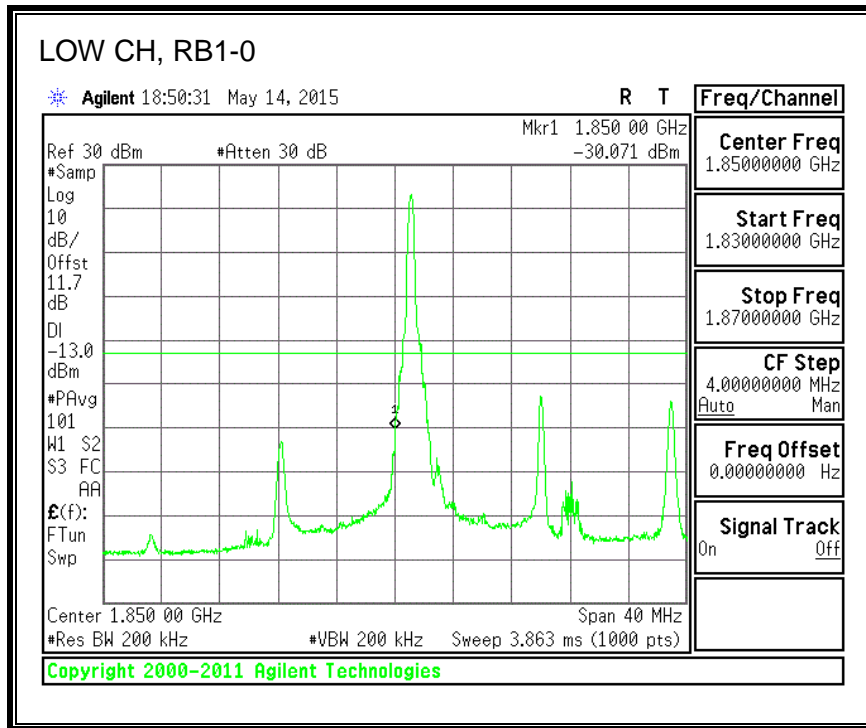


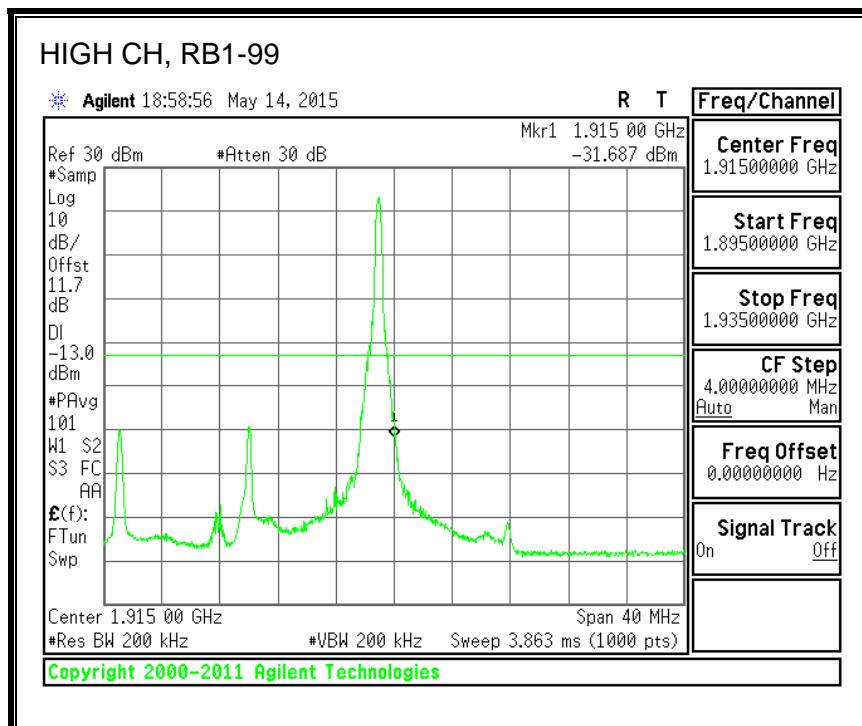
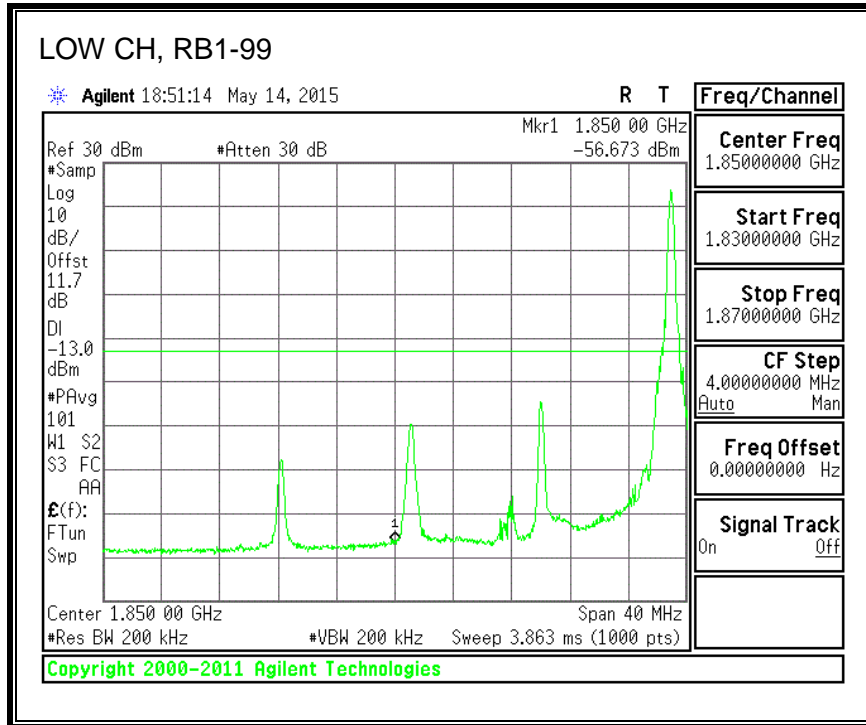




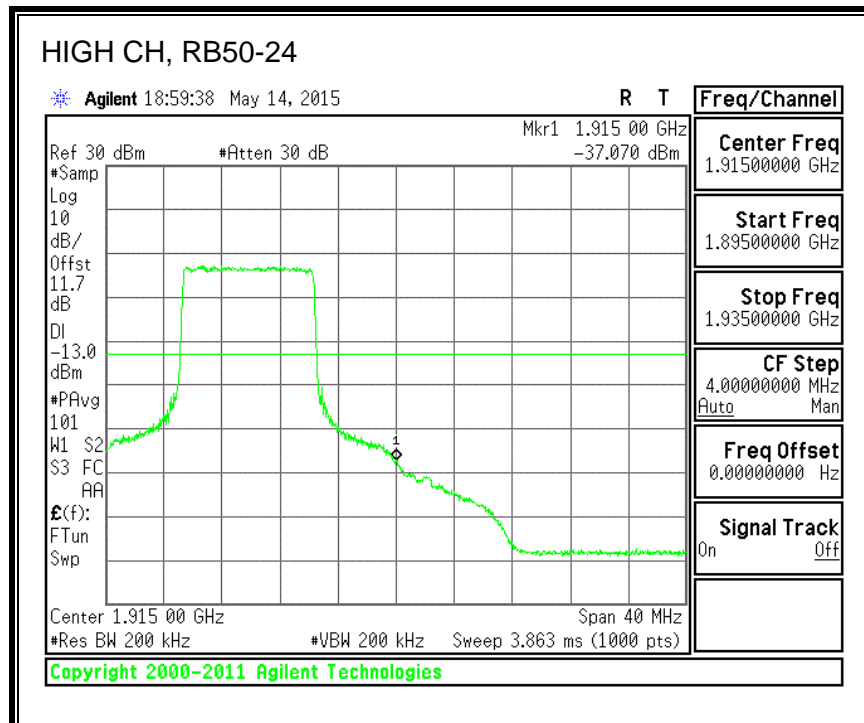
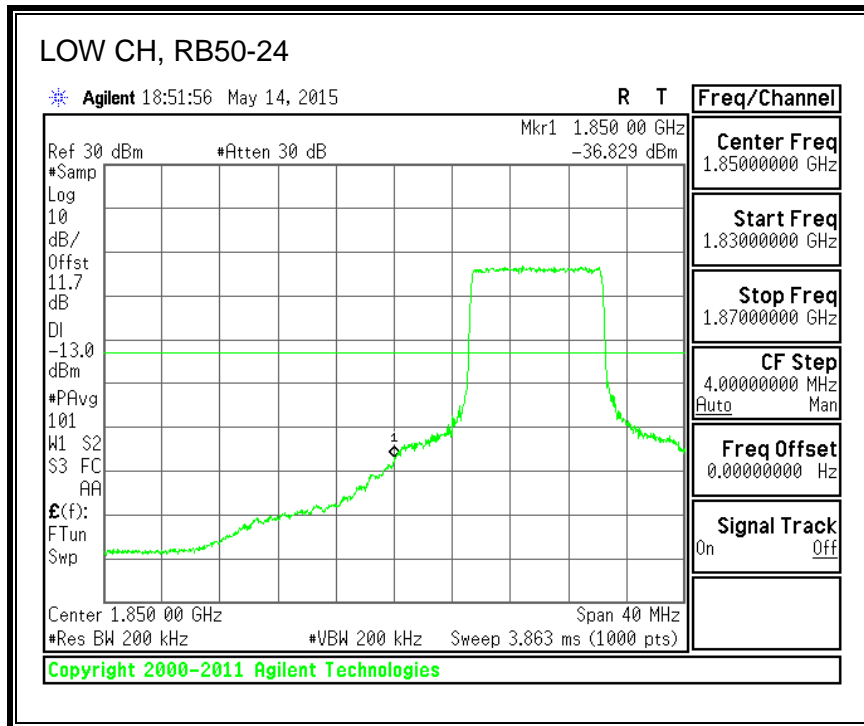


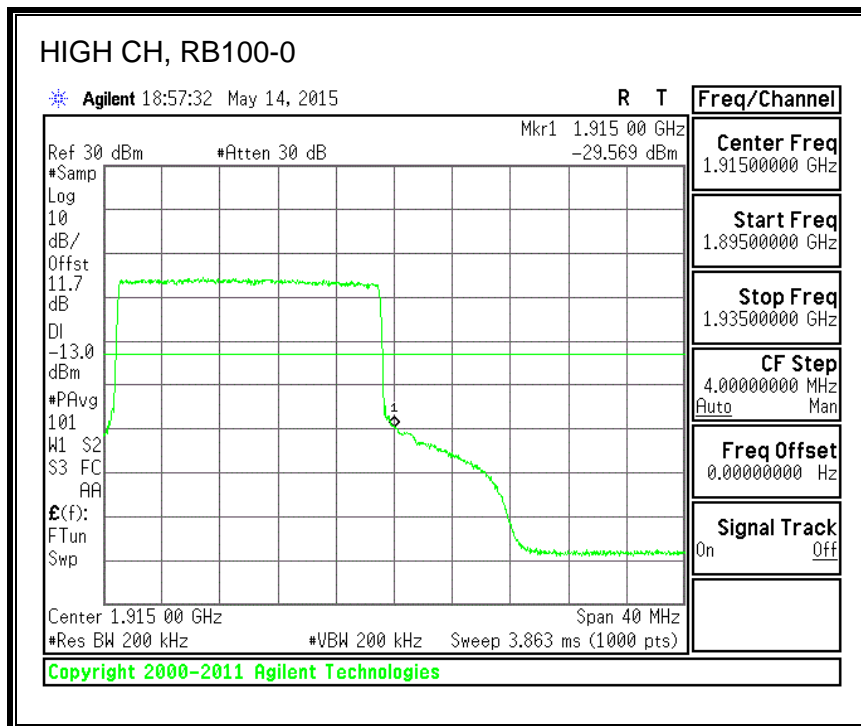
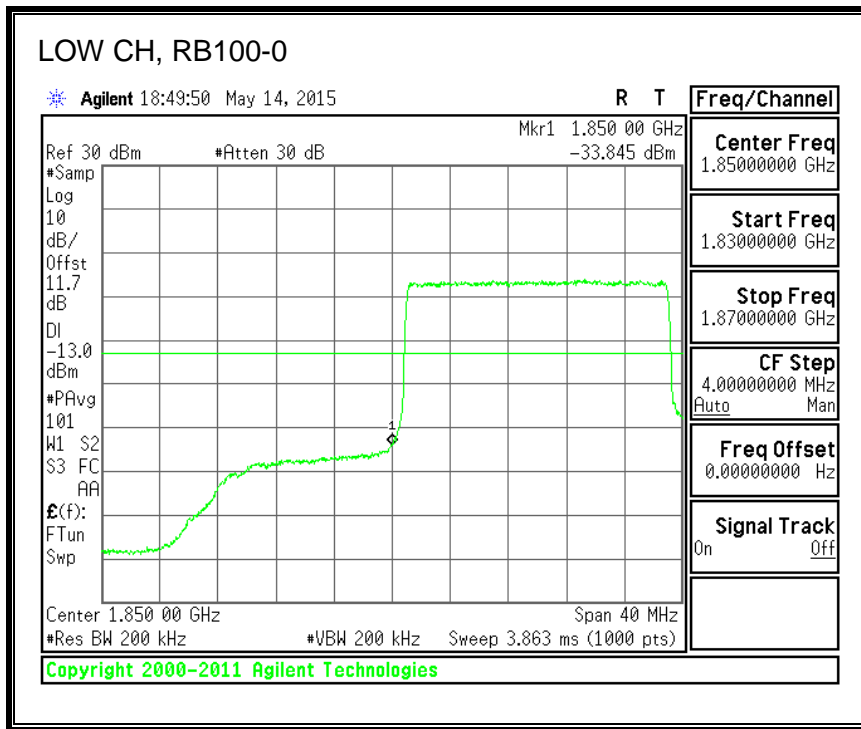
**16QAM, (20.0 MHz BAND WIDTH)**





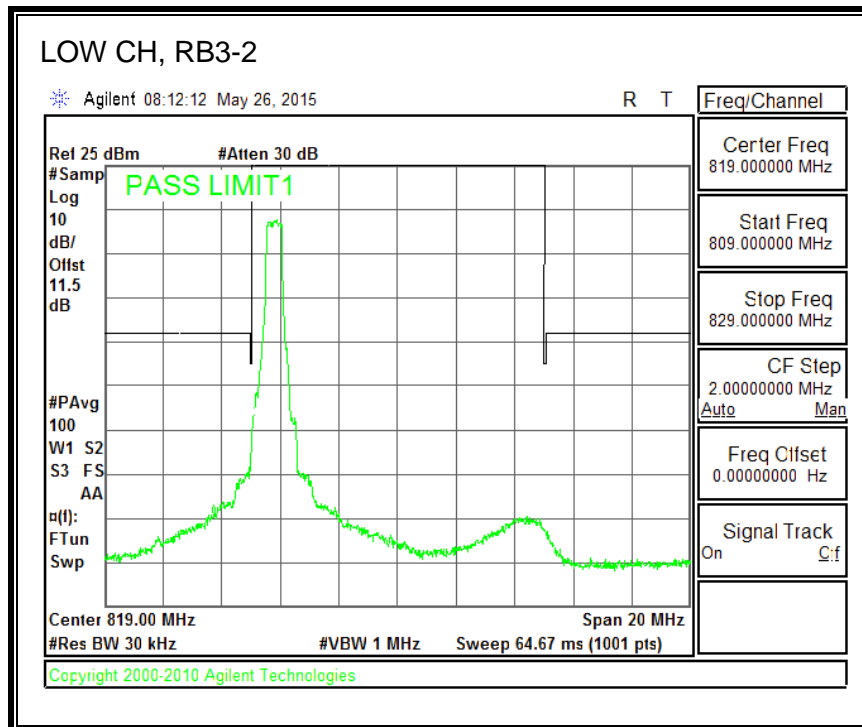
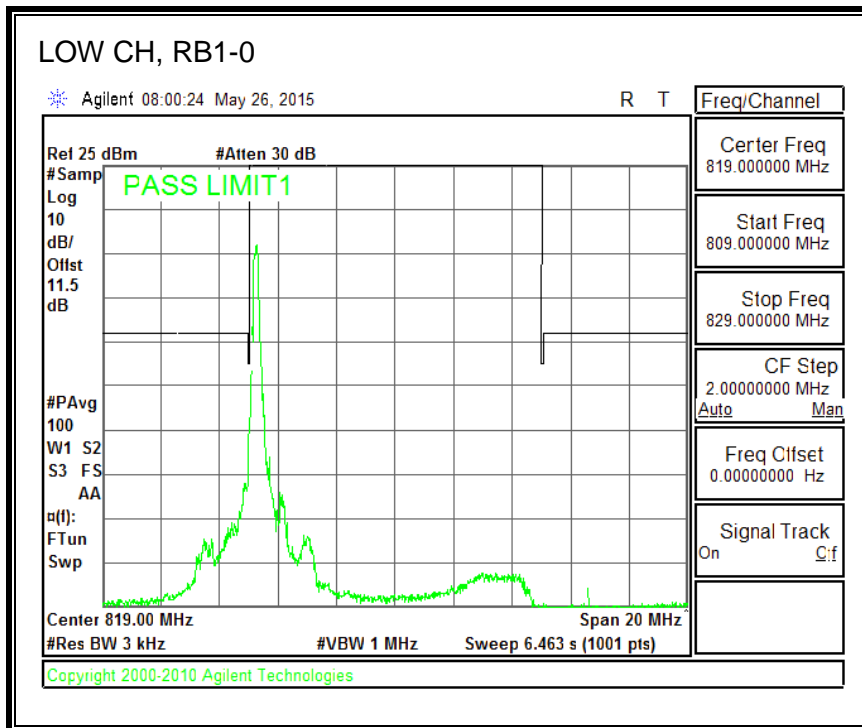


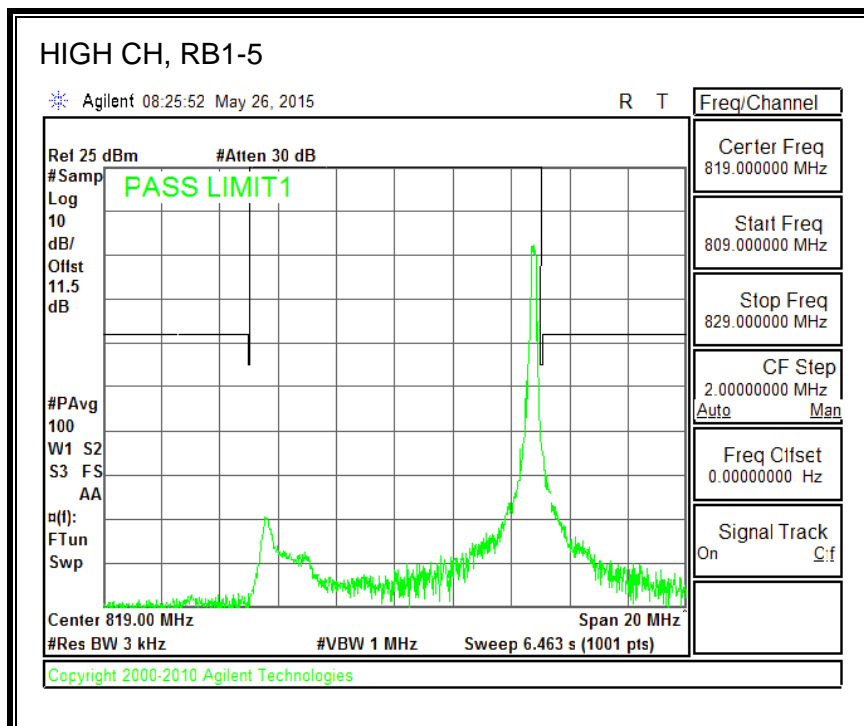
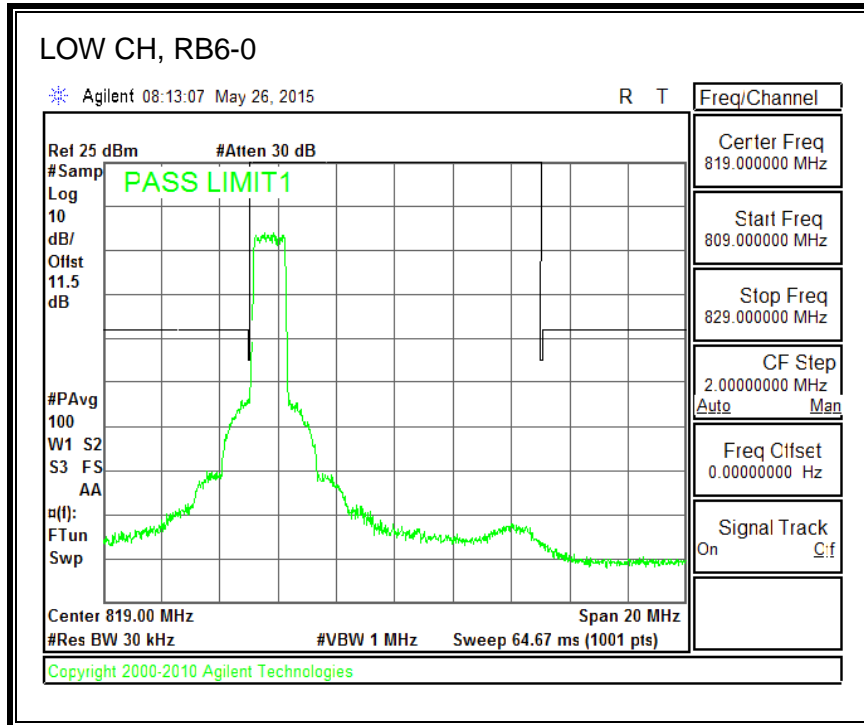


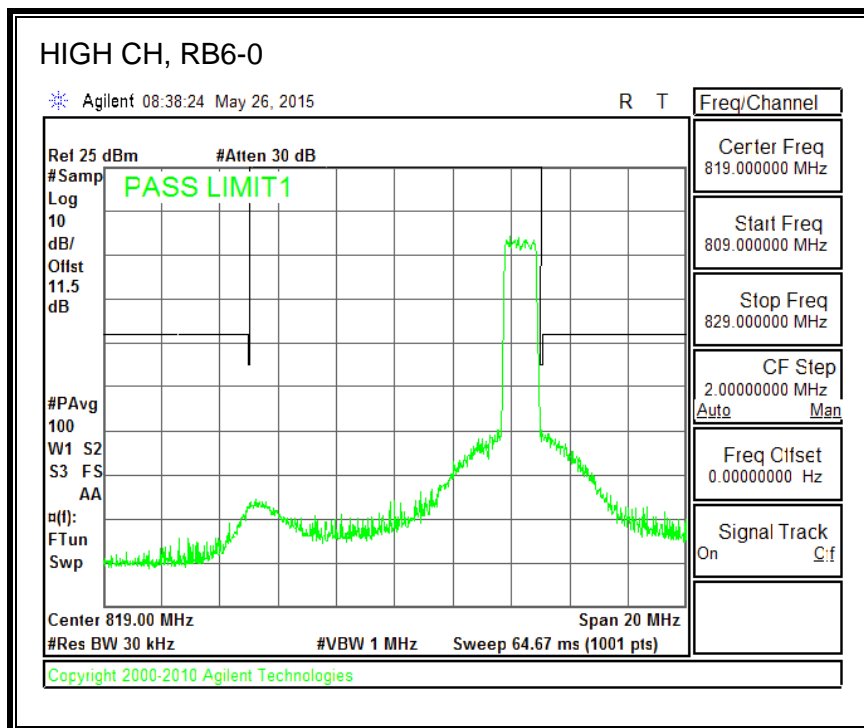
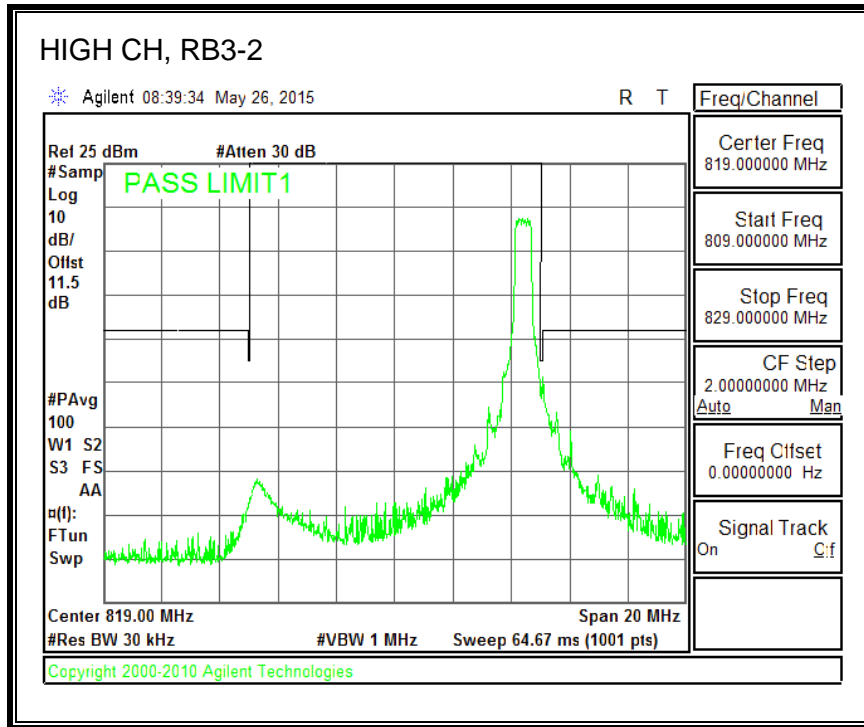


### 8.4.9. LTE BAND 26 EMISSION MASK

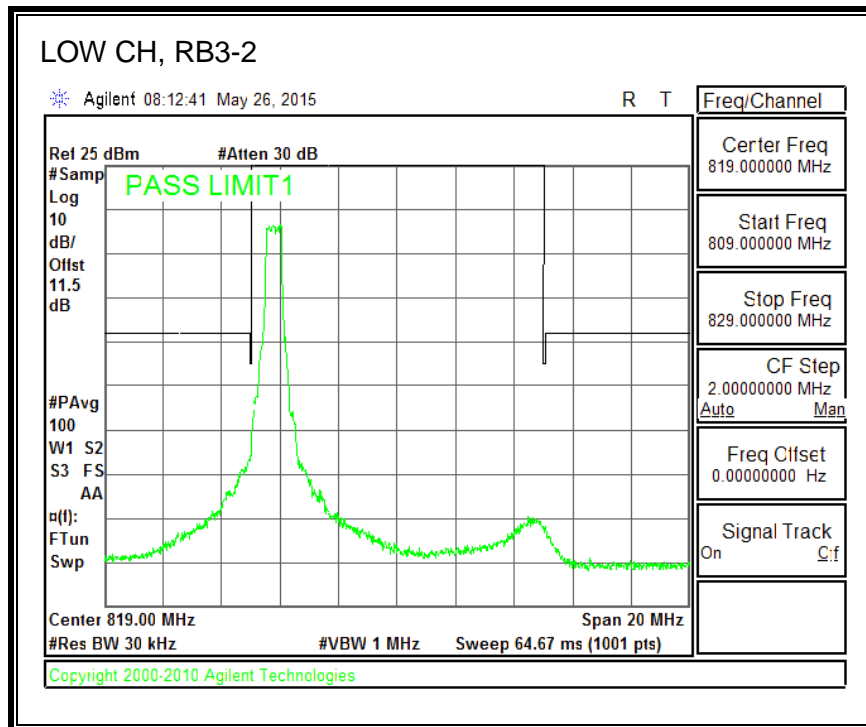
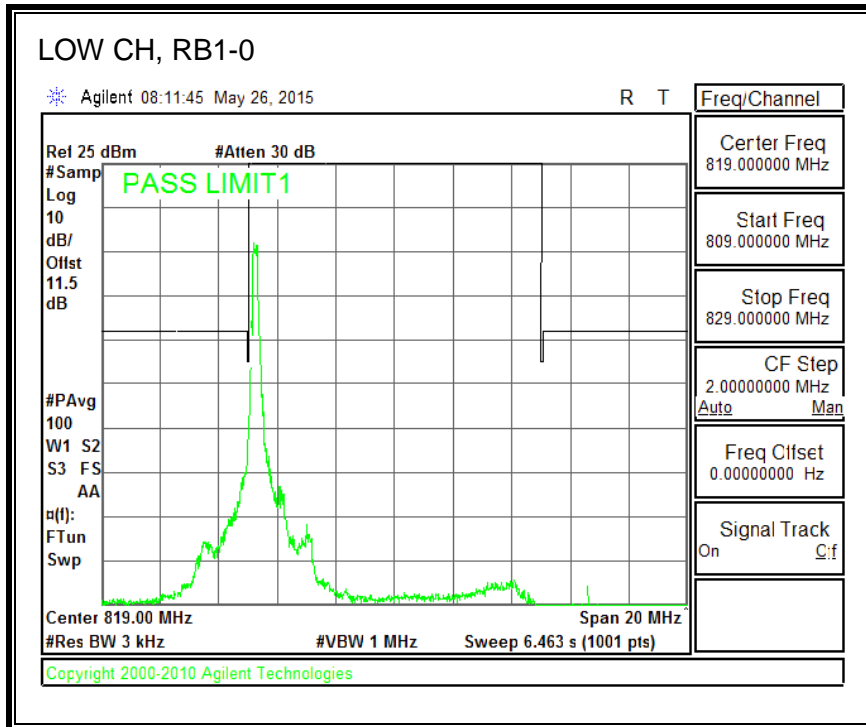
#### QPSK, (1.4 MHz BAND WIDTH)

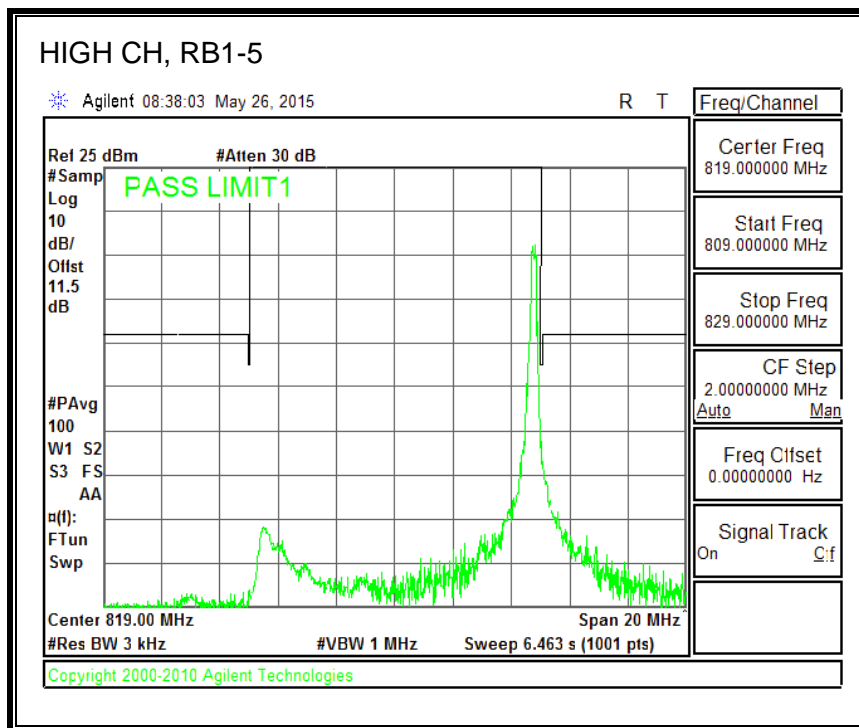
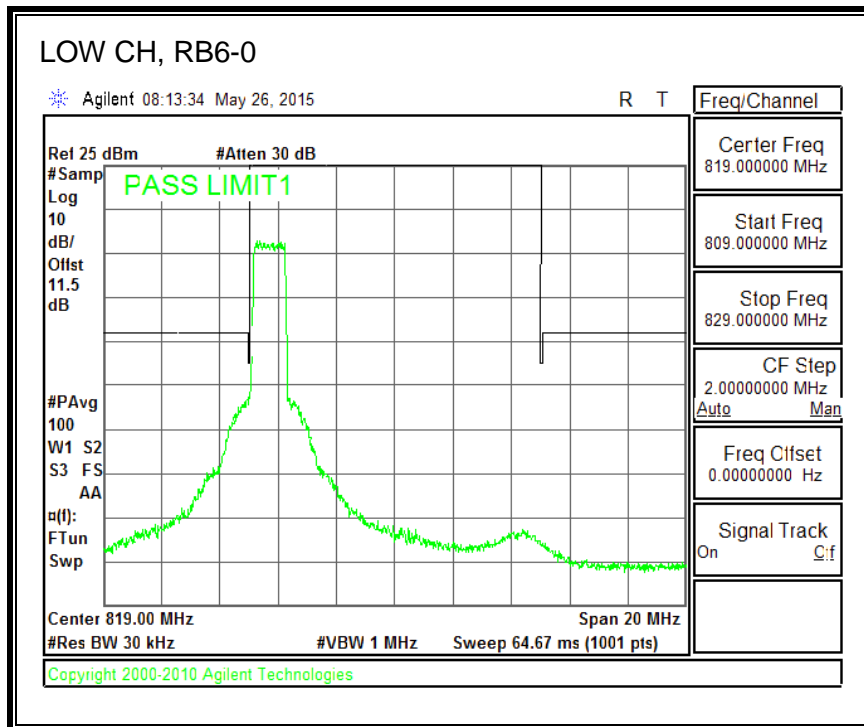


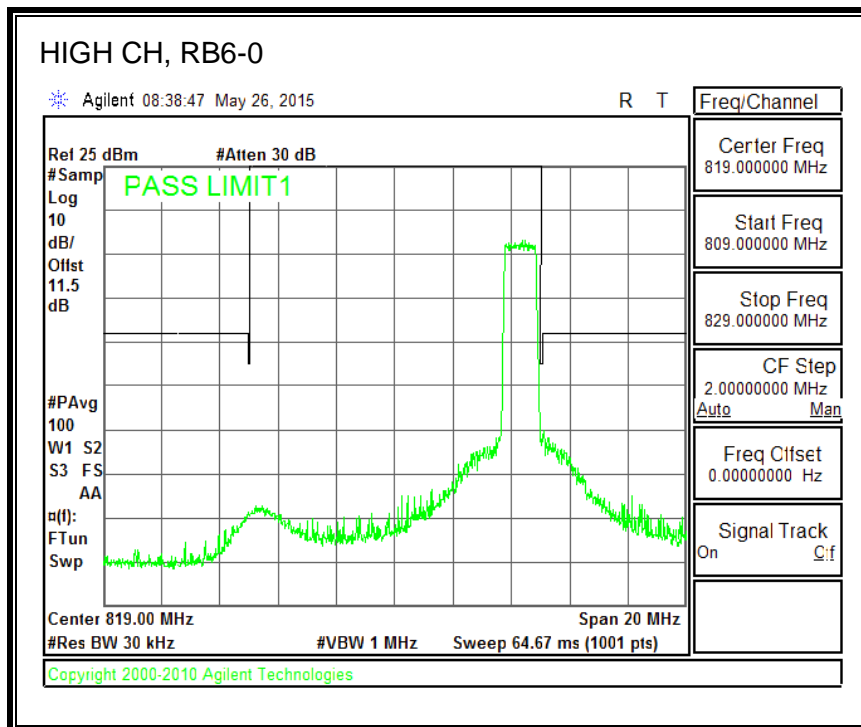
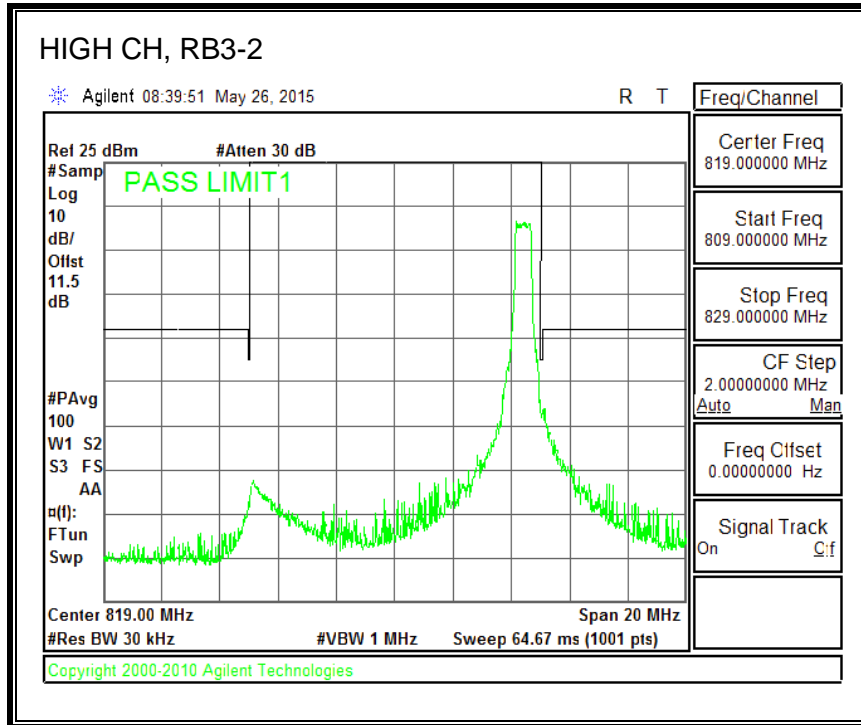




**16QAM, (1.4 MHz BAND WIDTH)**

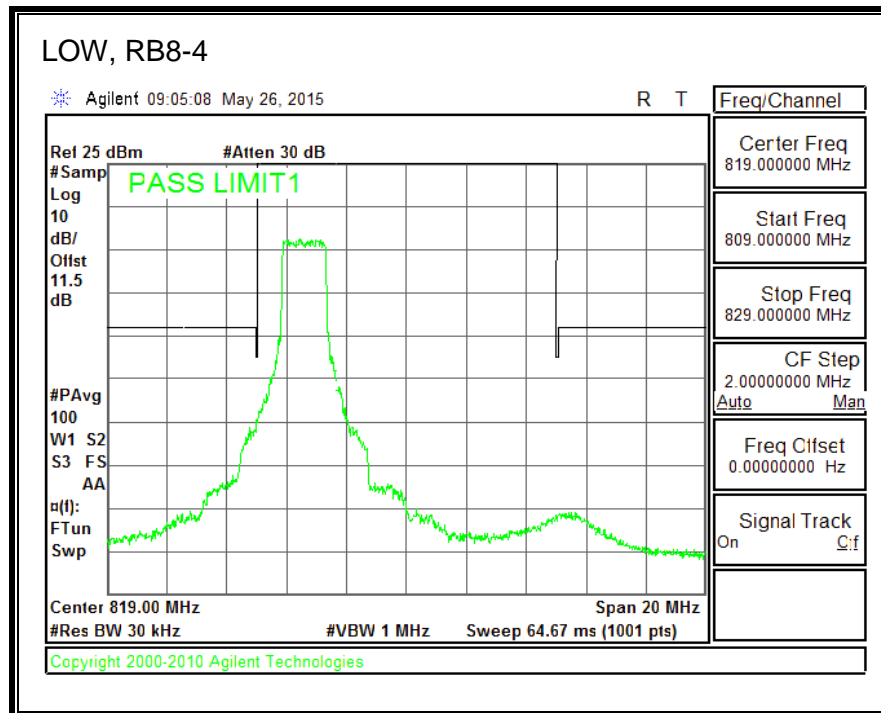
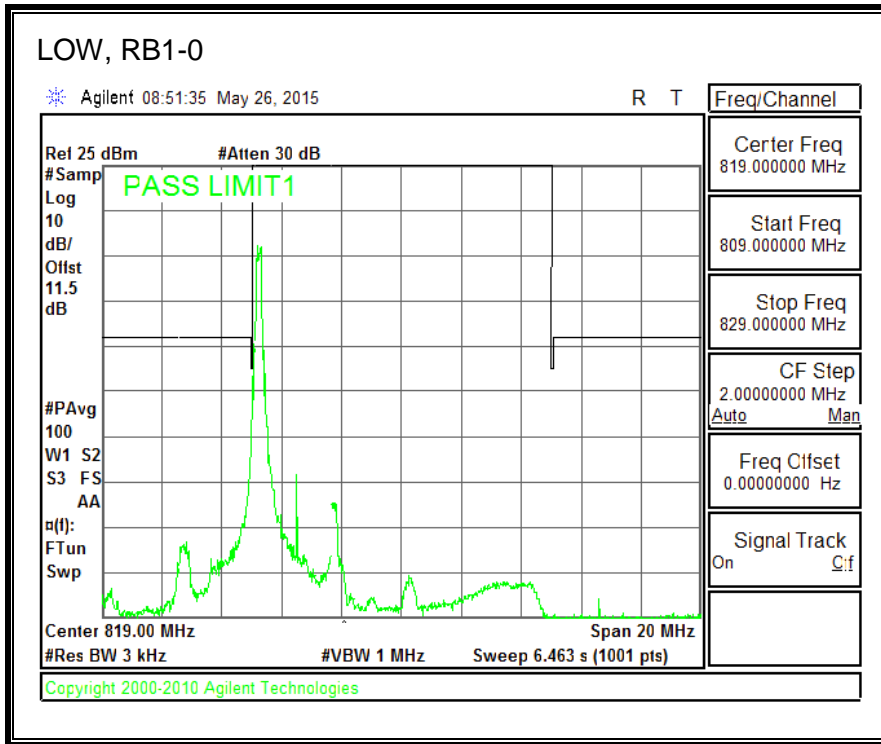


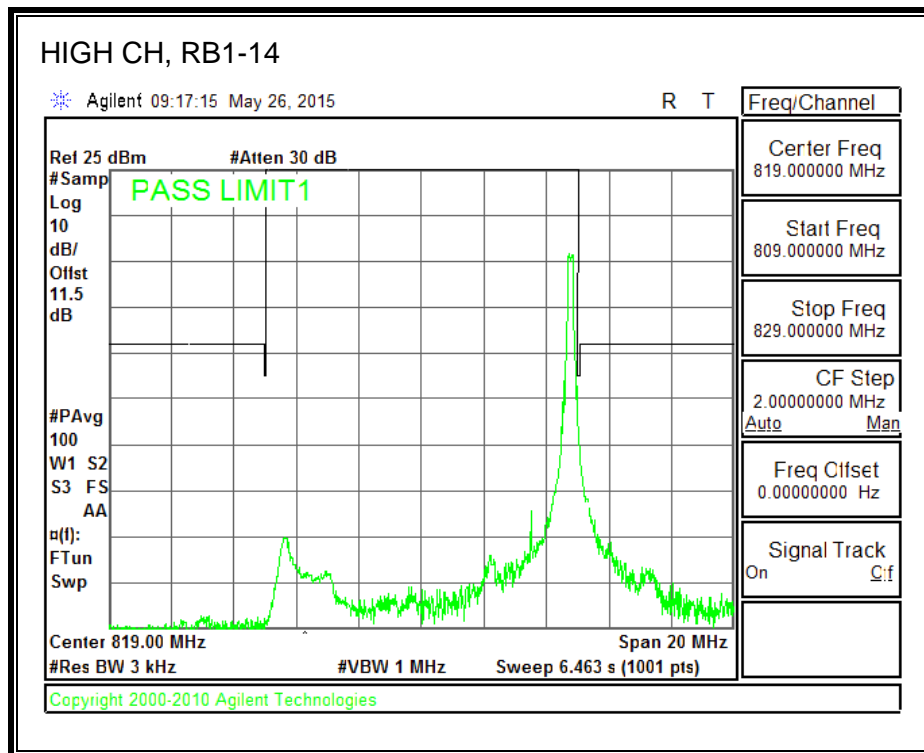
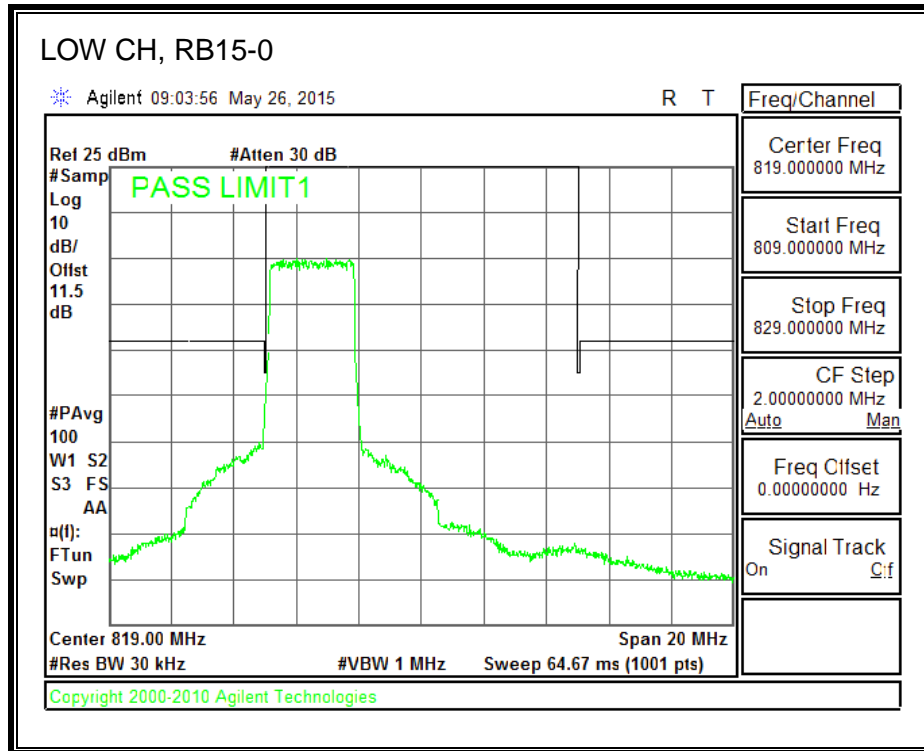


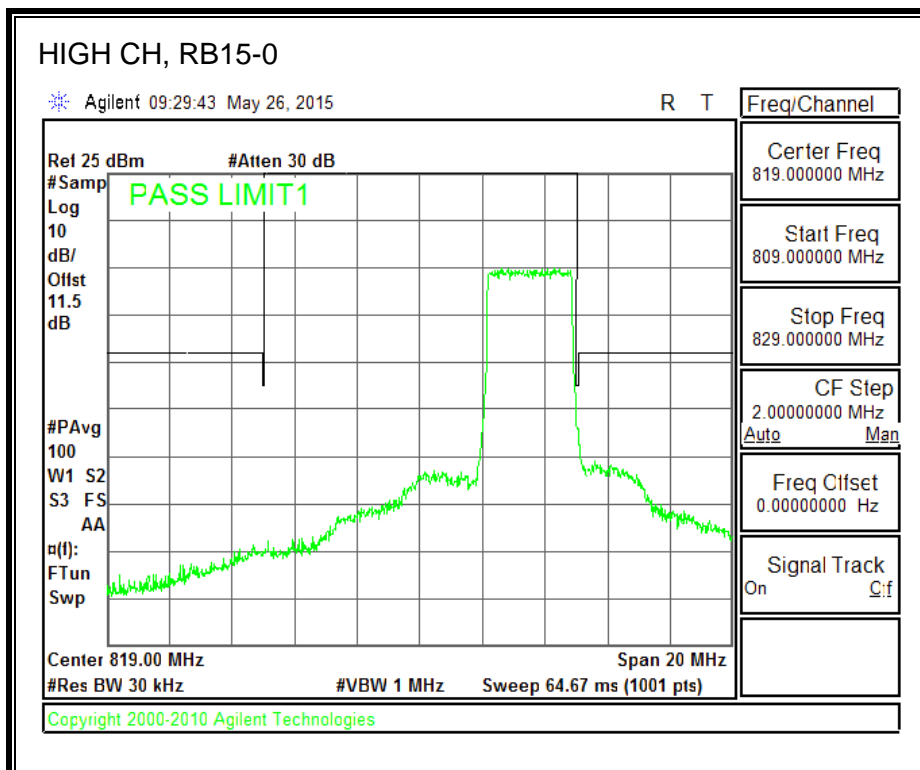
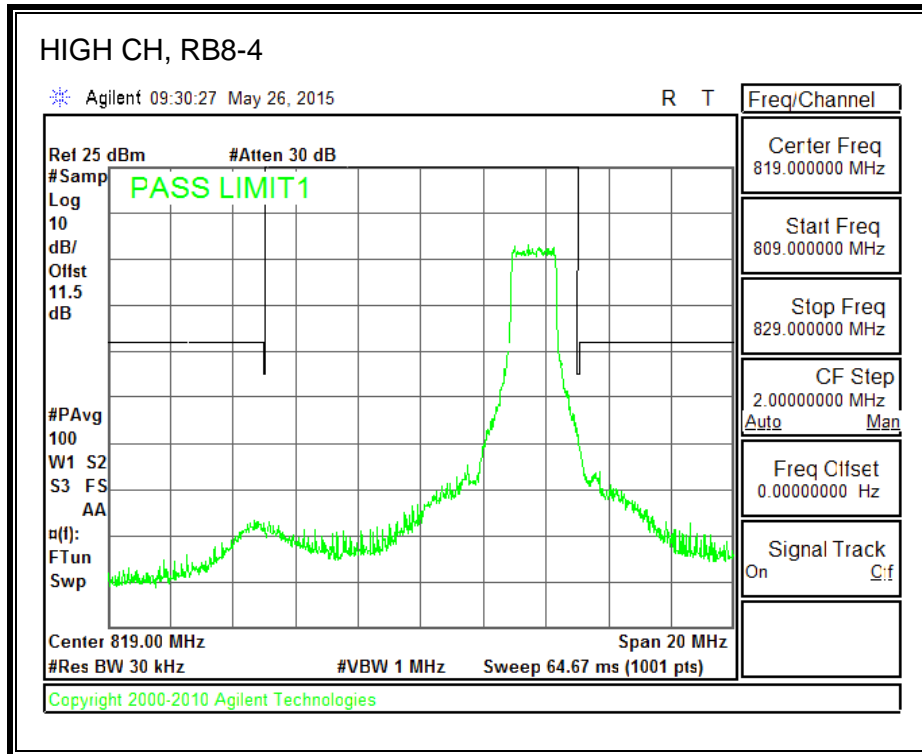




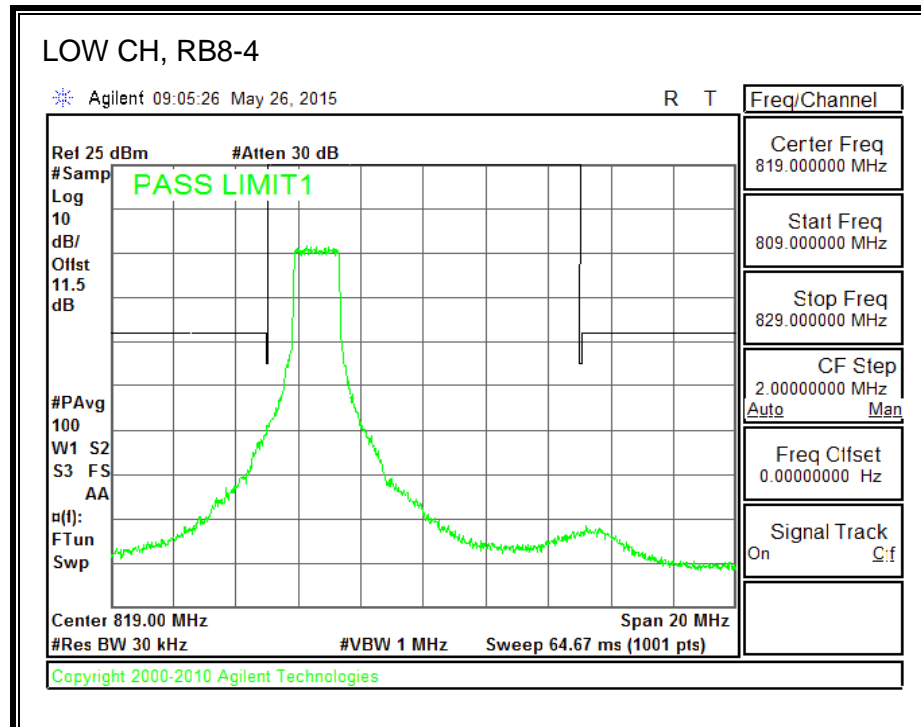
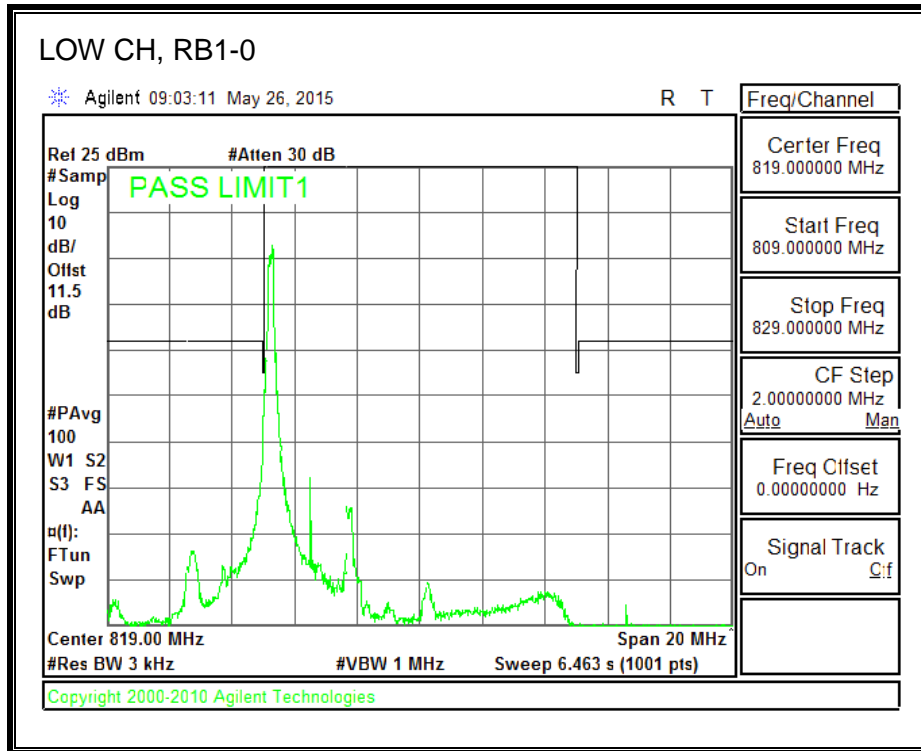
**QPSK, (3.0 MHz BAND WIDTH)**

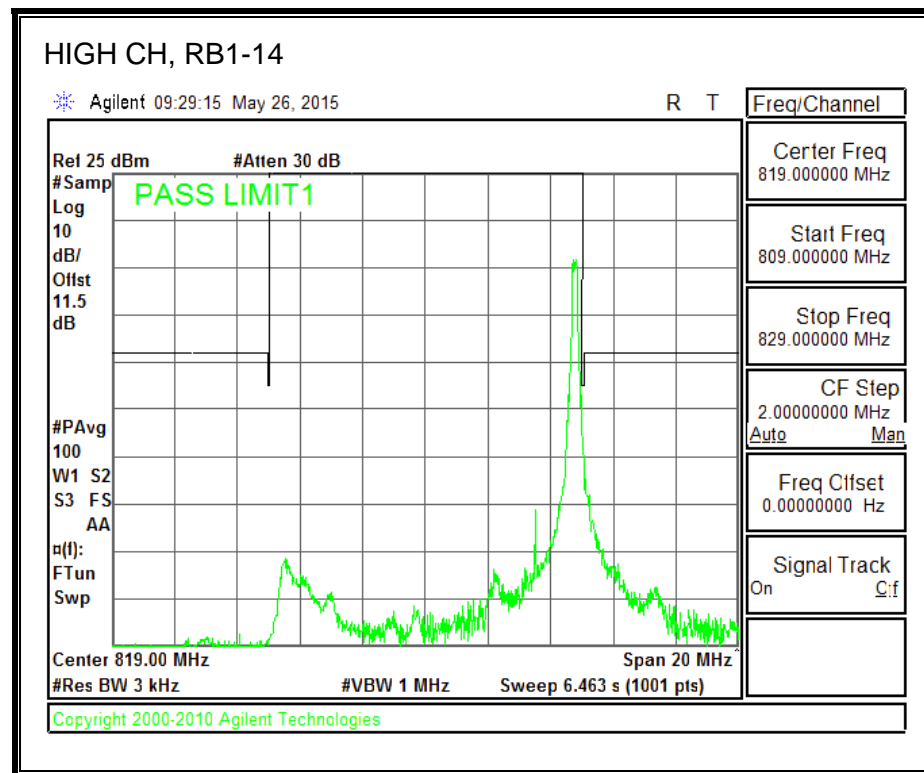
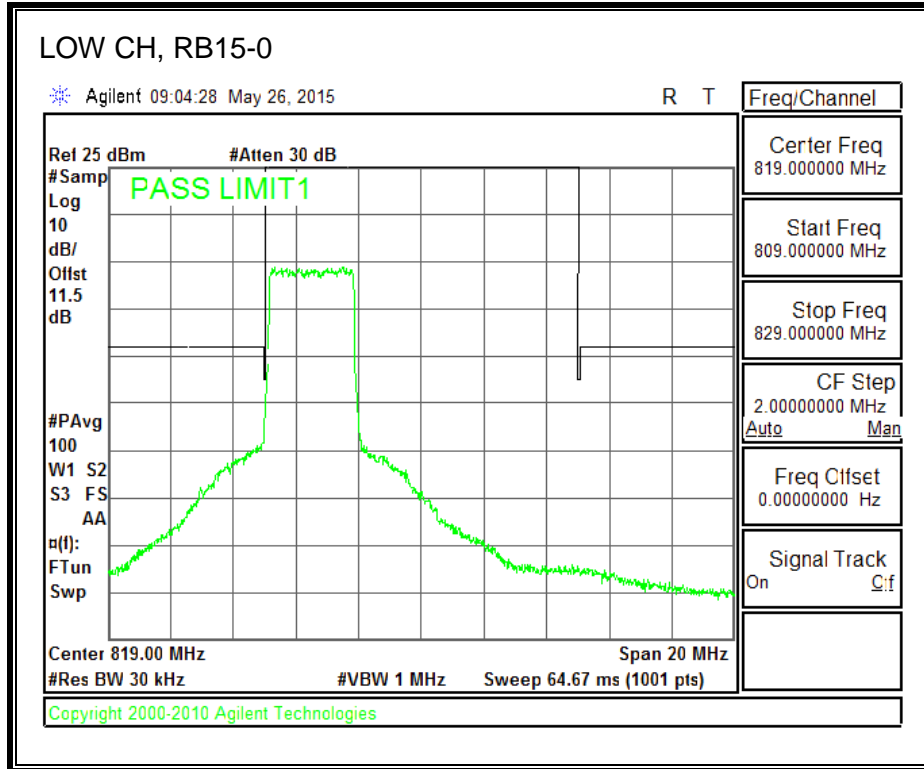


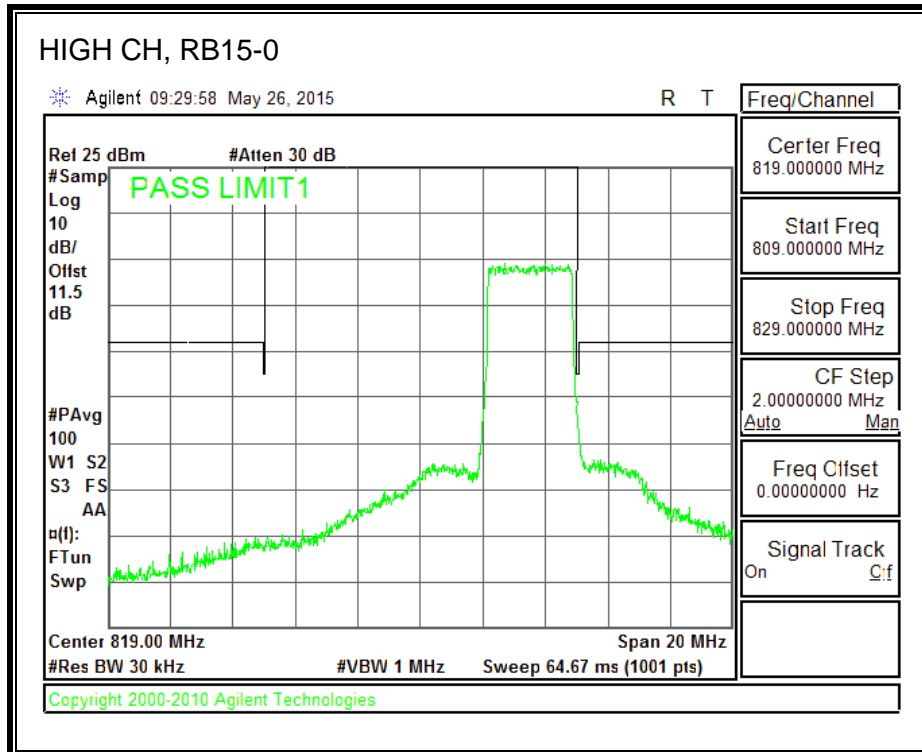
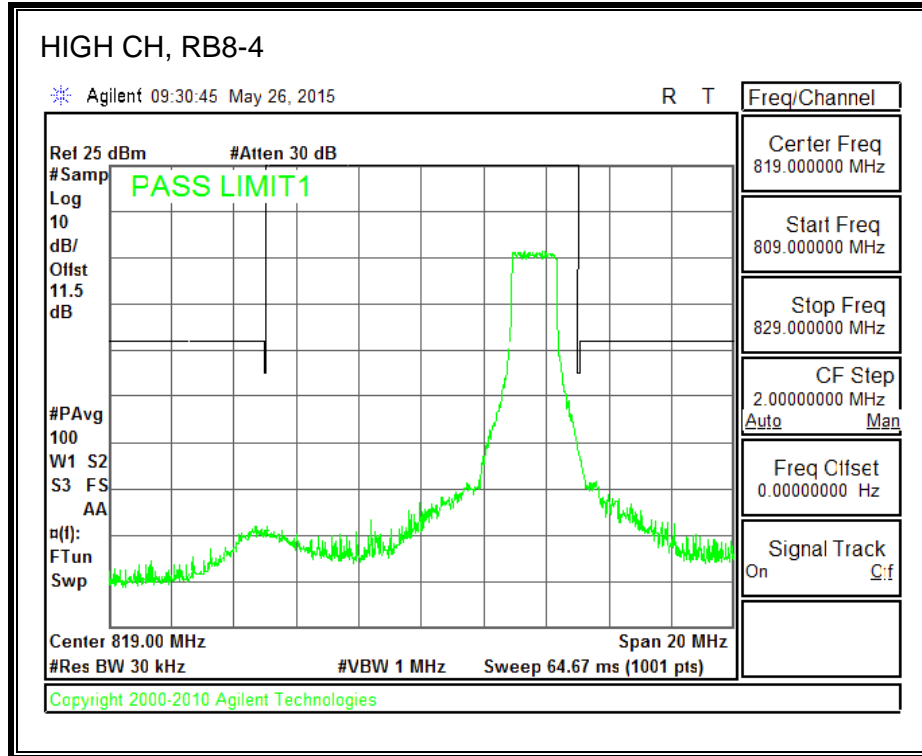




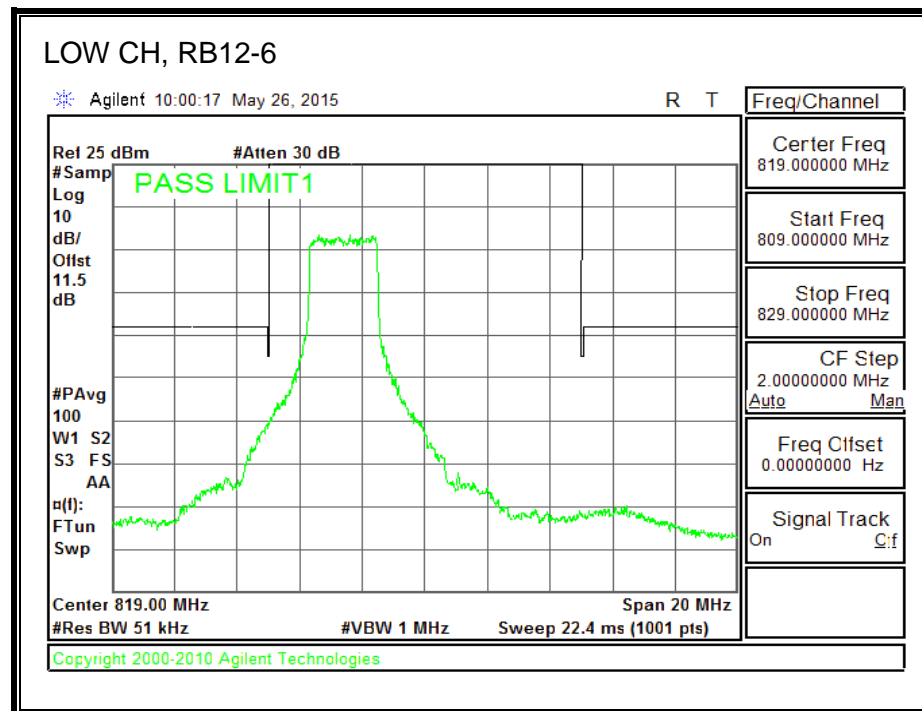
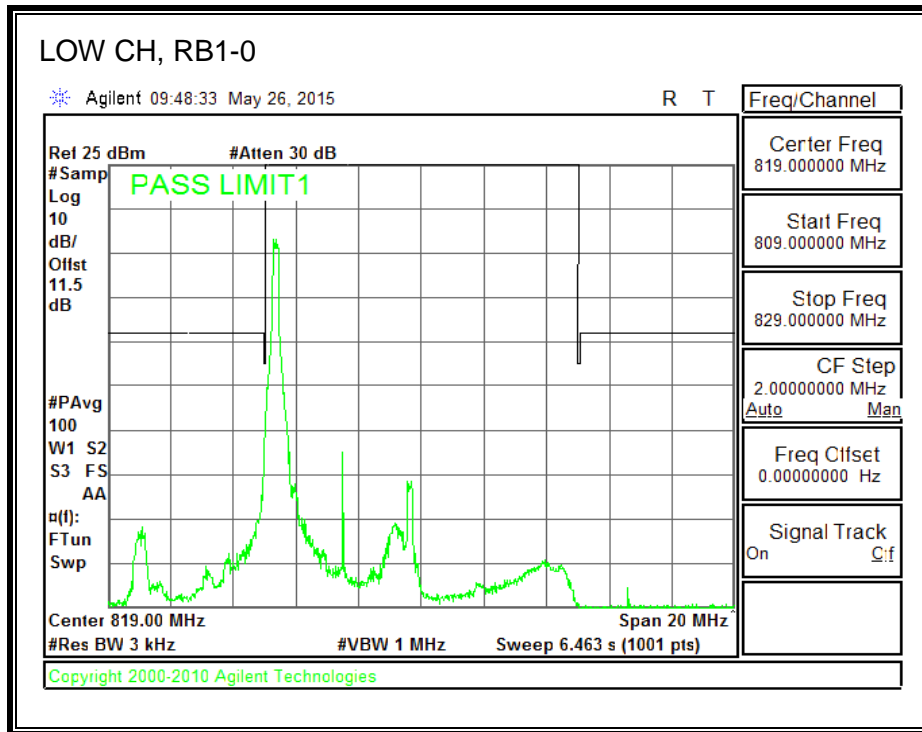
**16QAM, (3.0 MHz BAND WIDTH)**

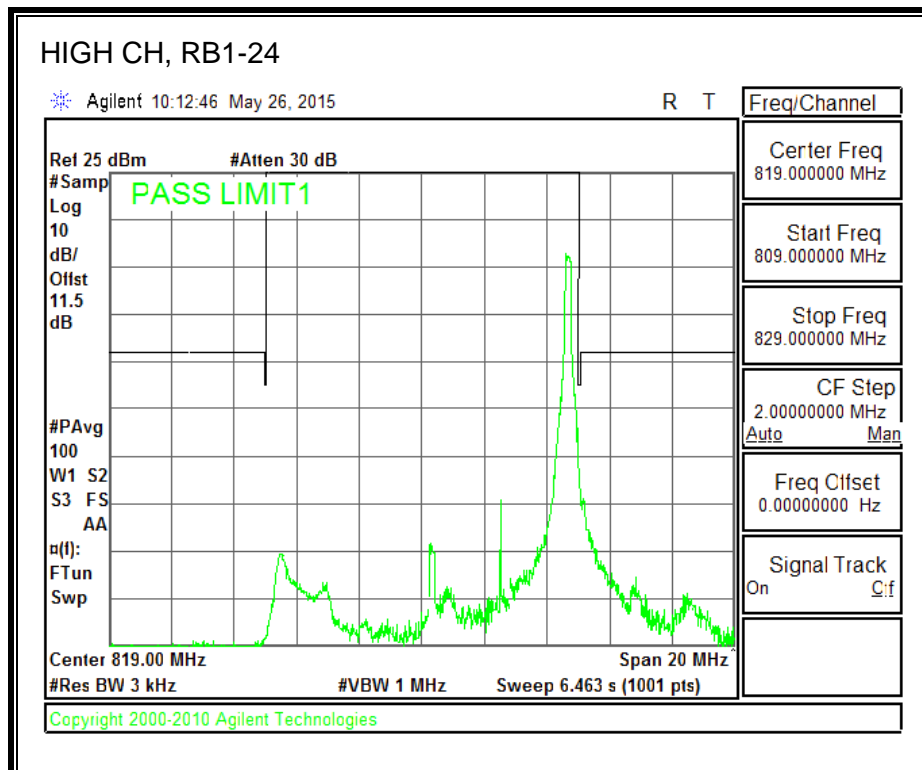
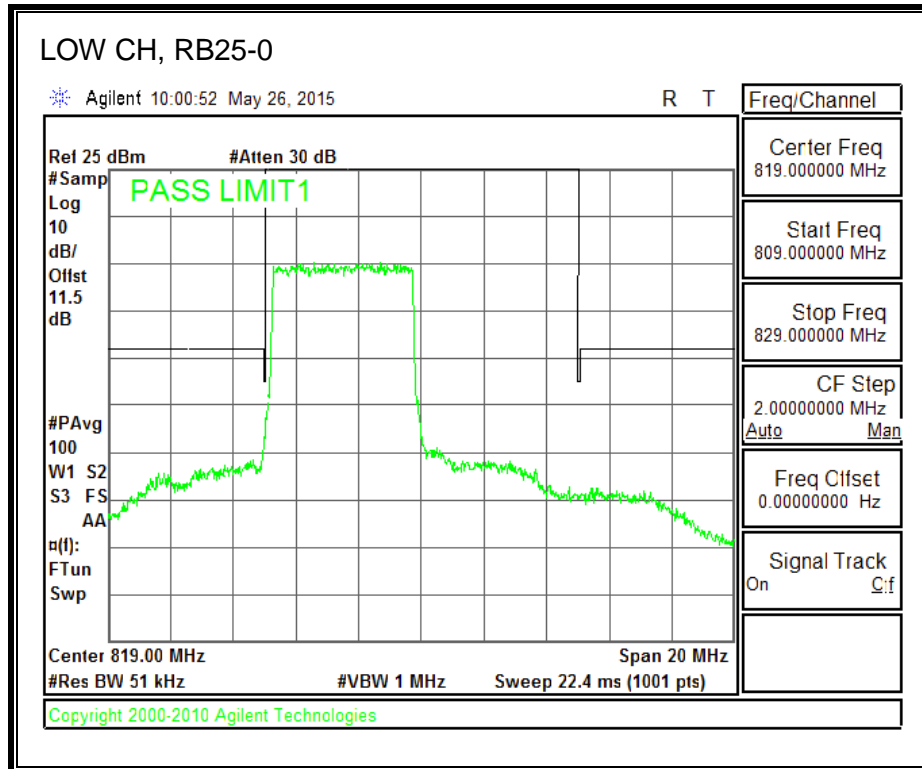




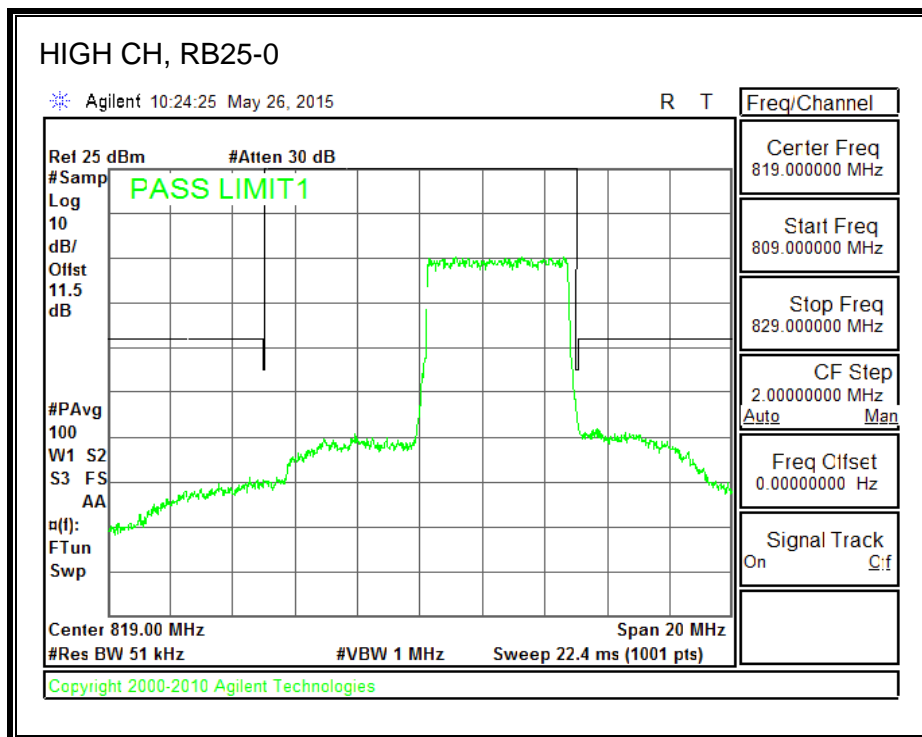
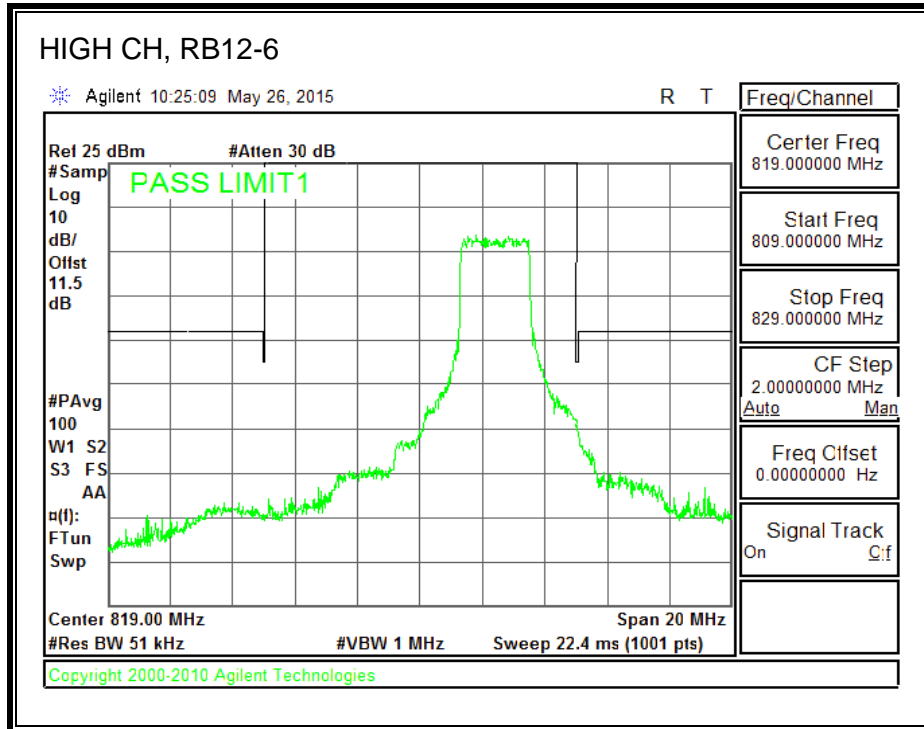


**QPSK, (5.0 MHz BAND WIDTH)**

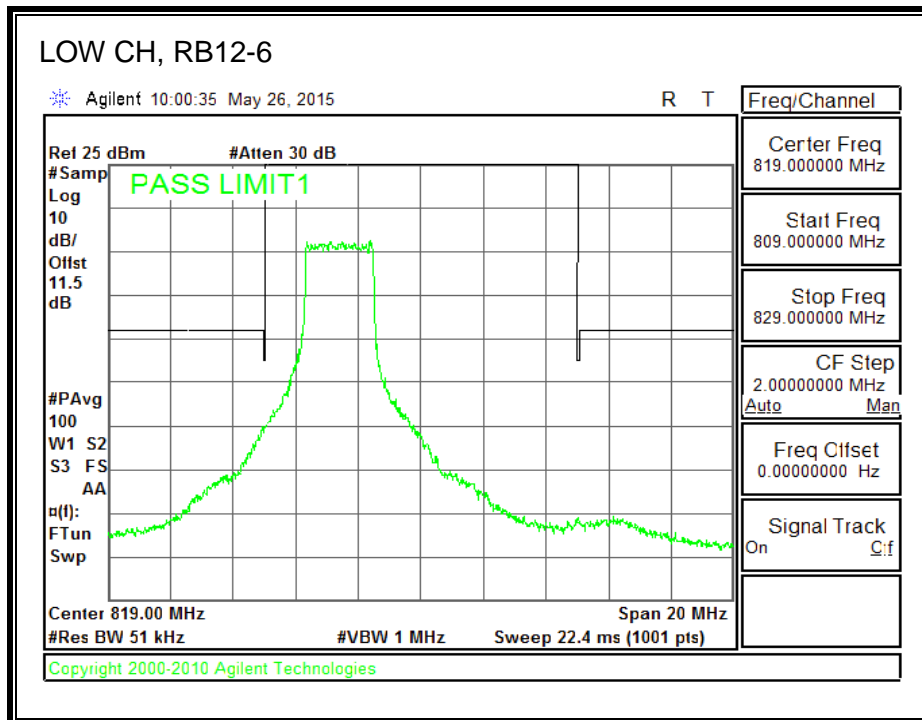
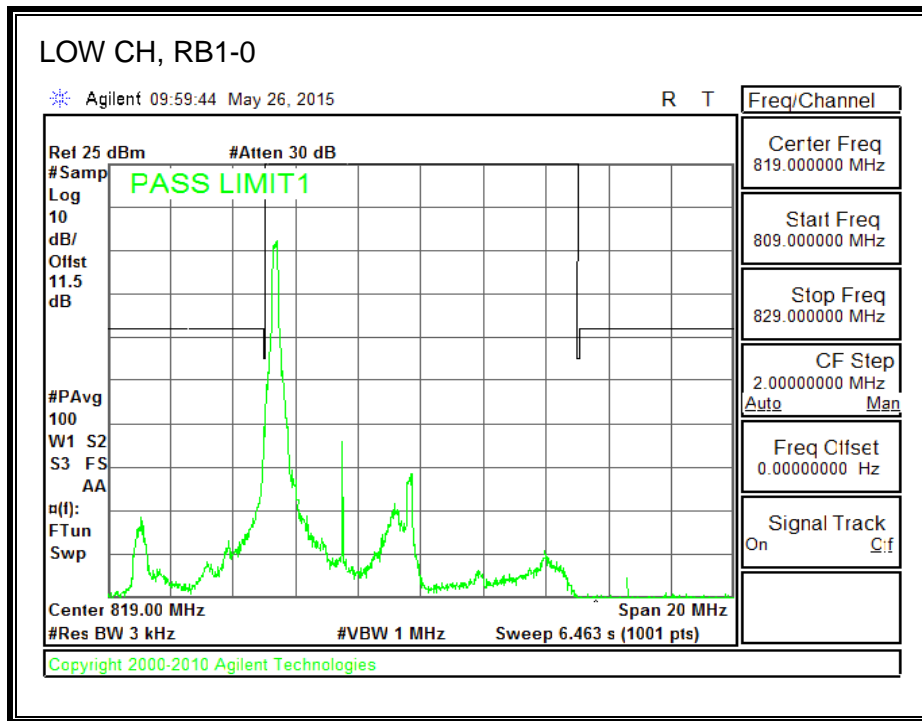


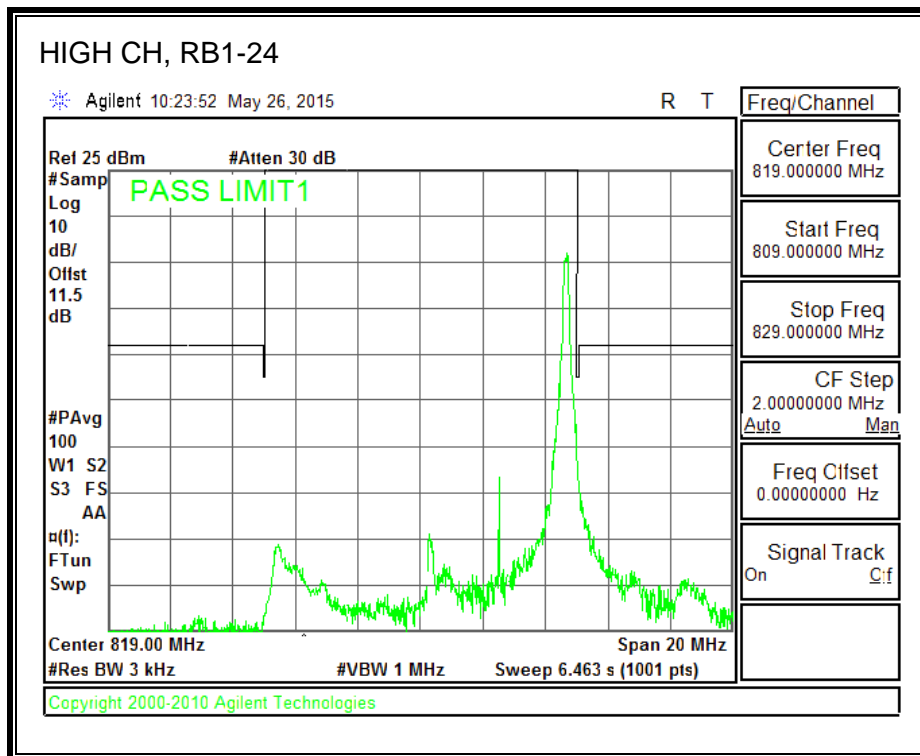
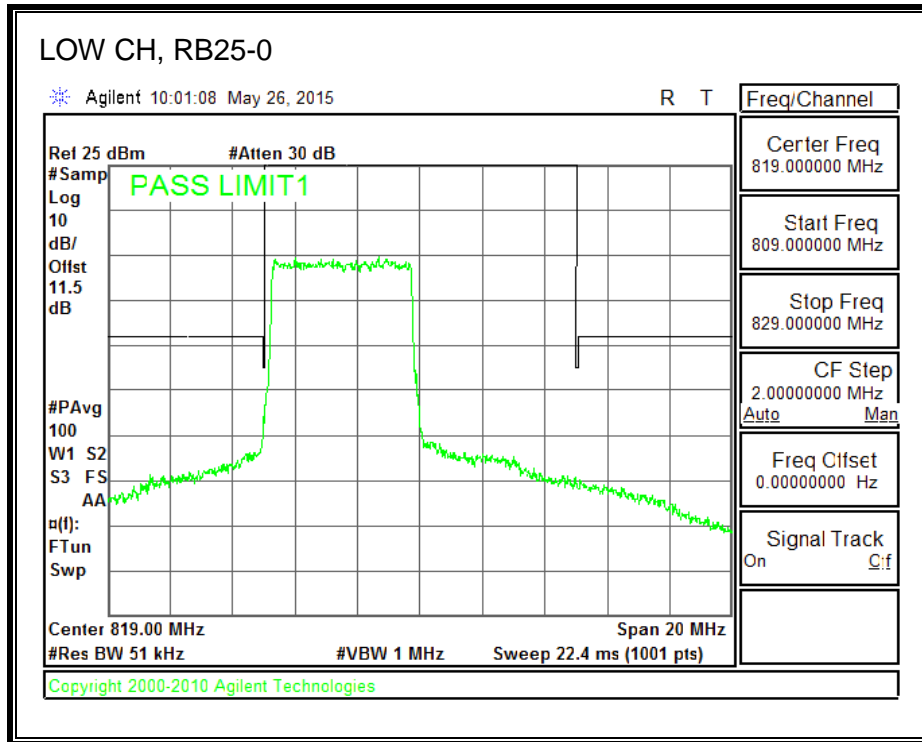


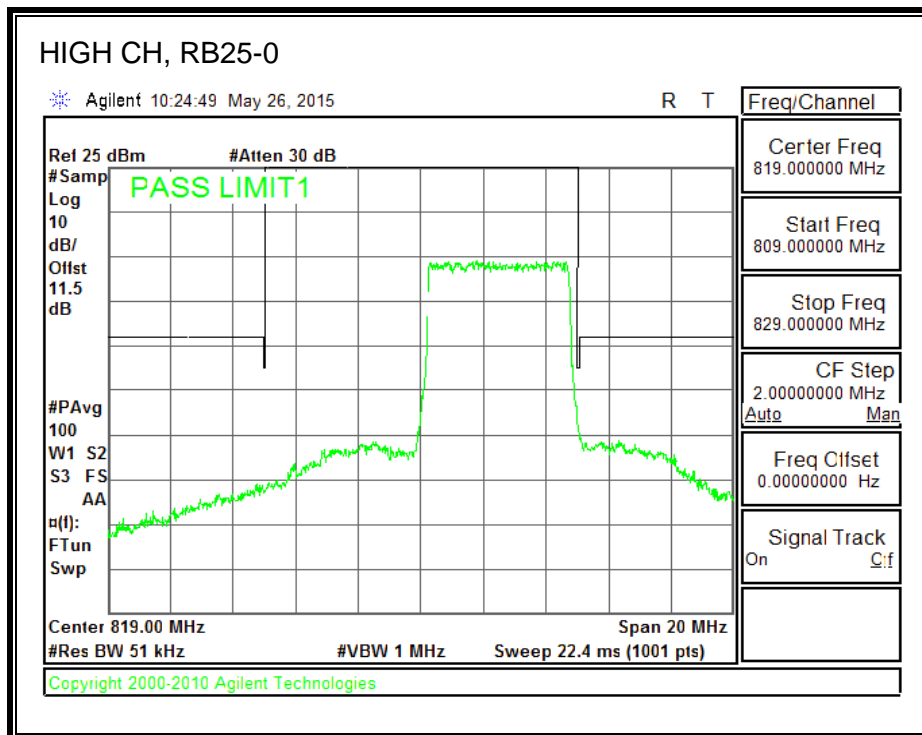
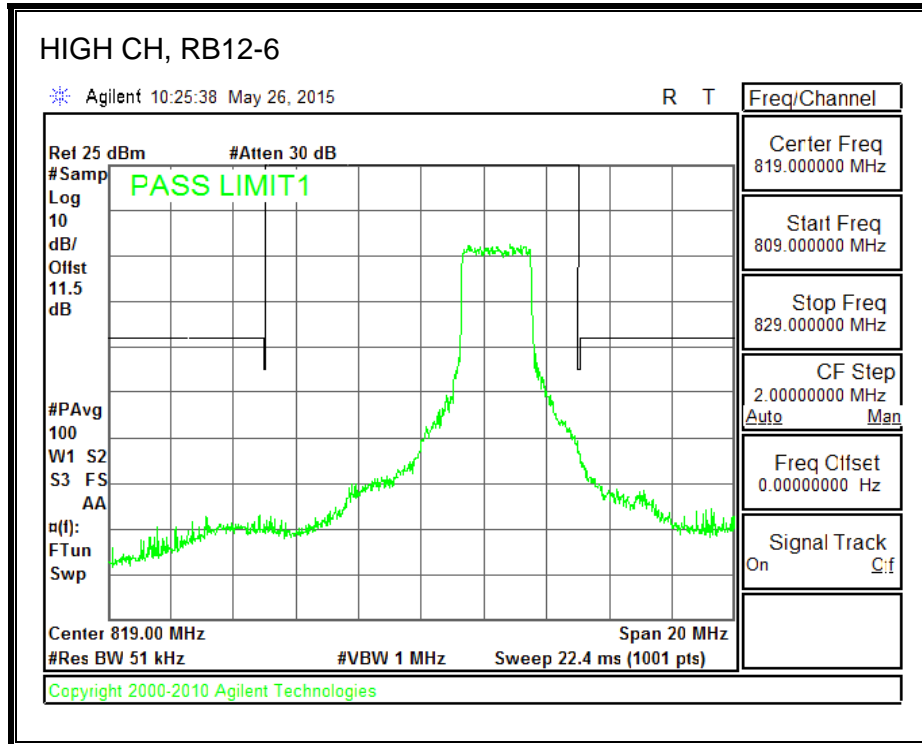




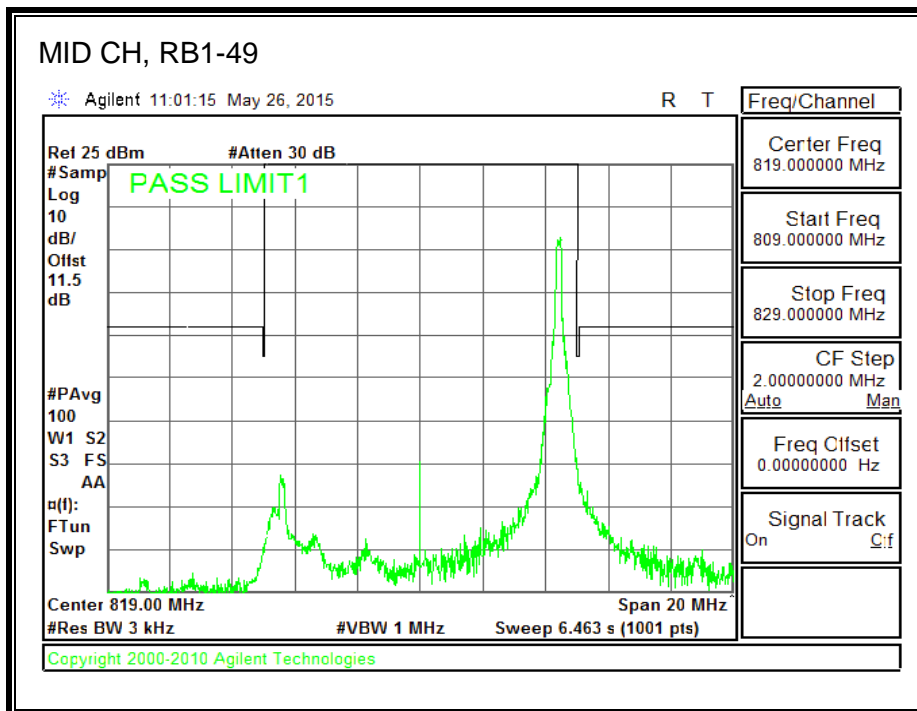
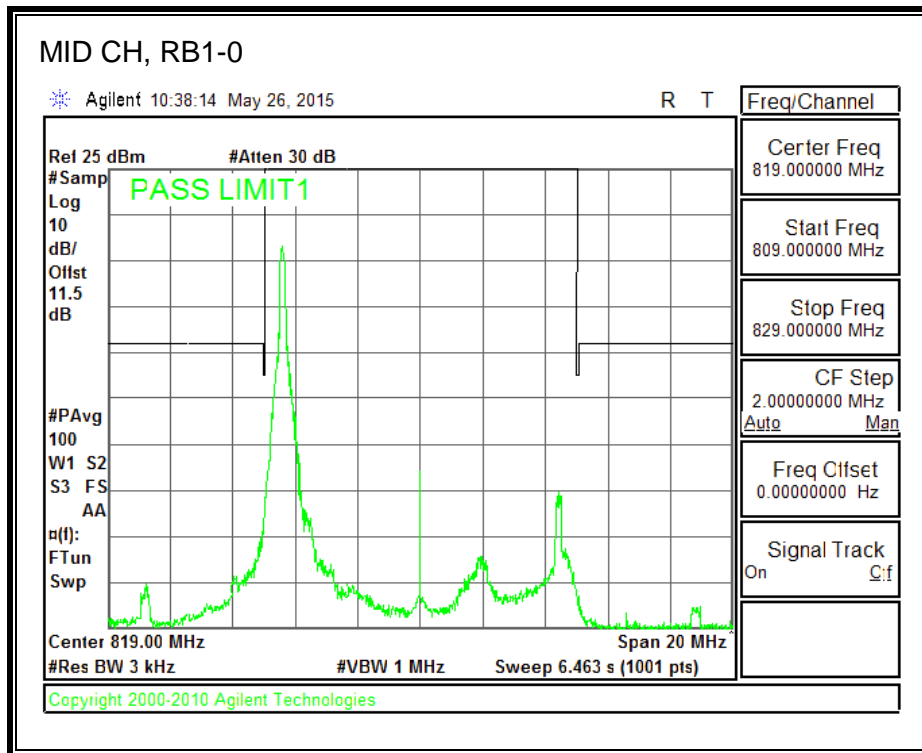
**16QAM, (5.0 MHz BAND WIDTH)**

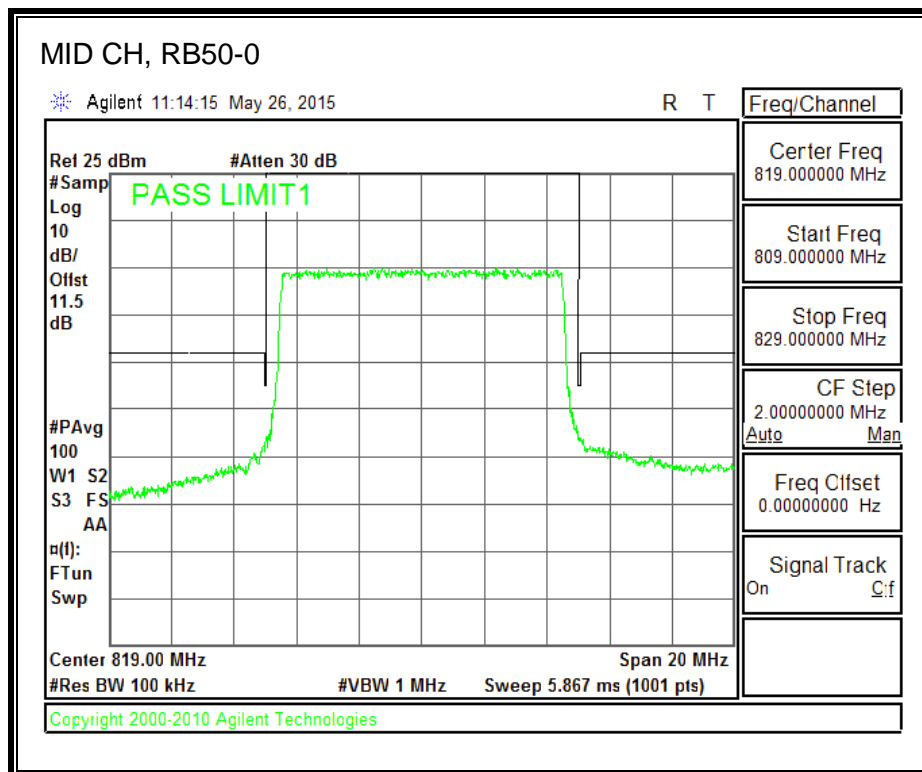
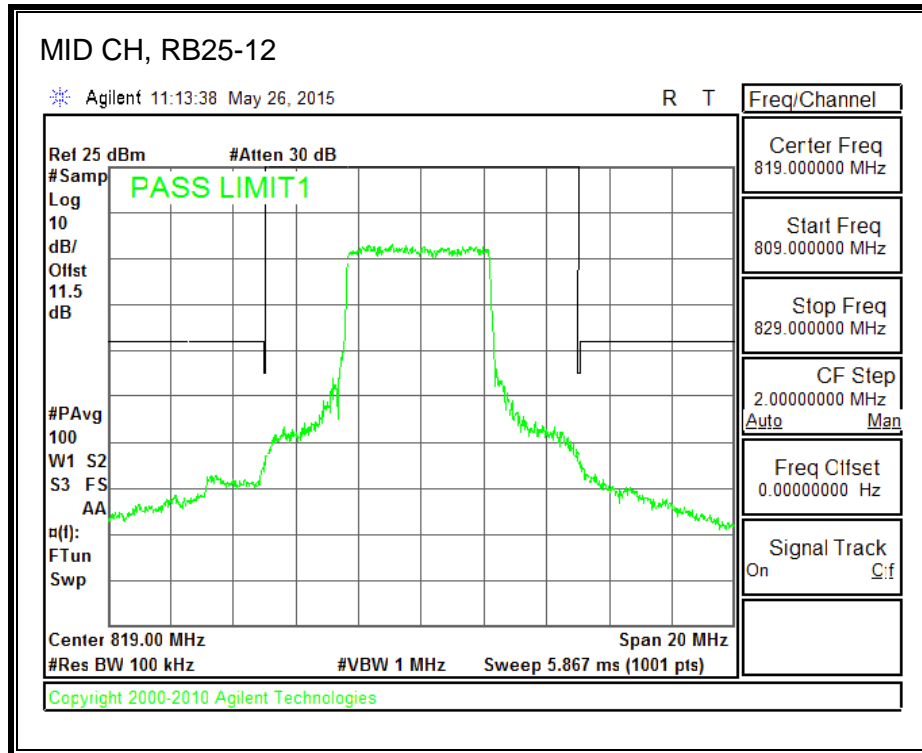




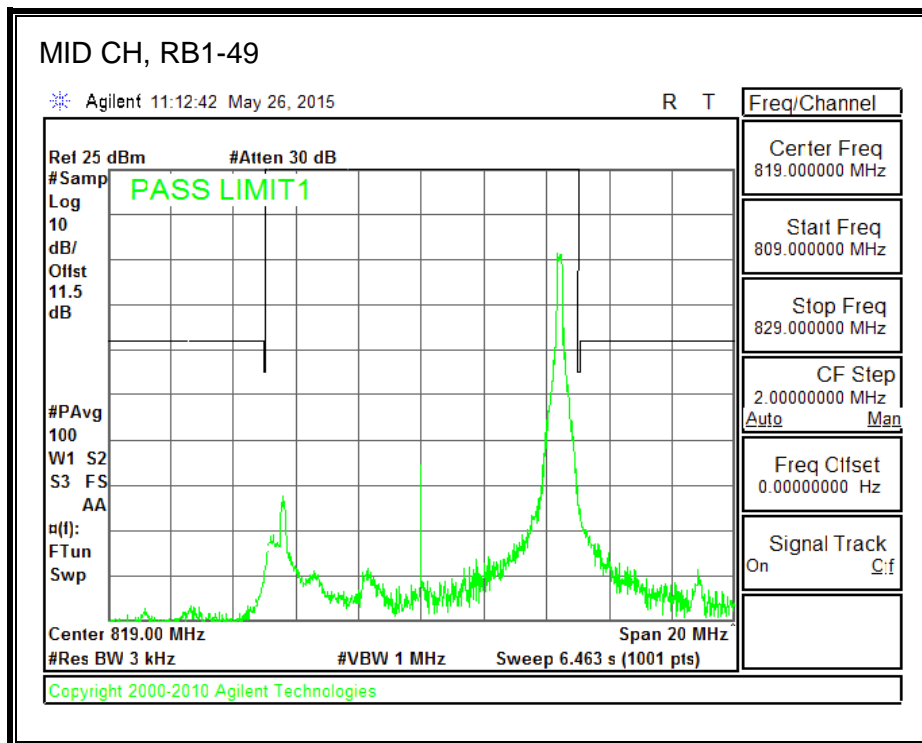
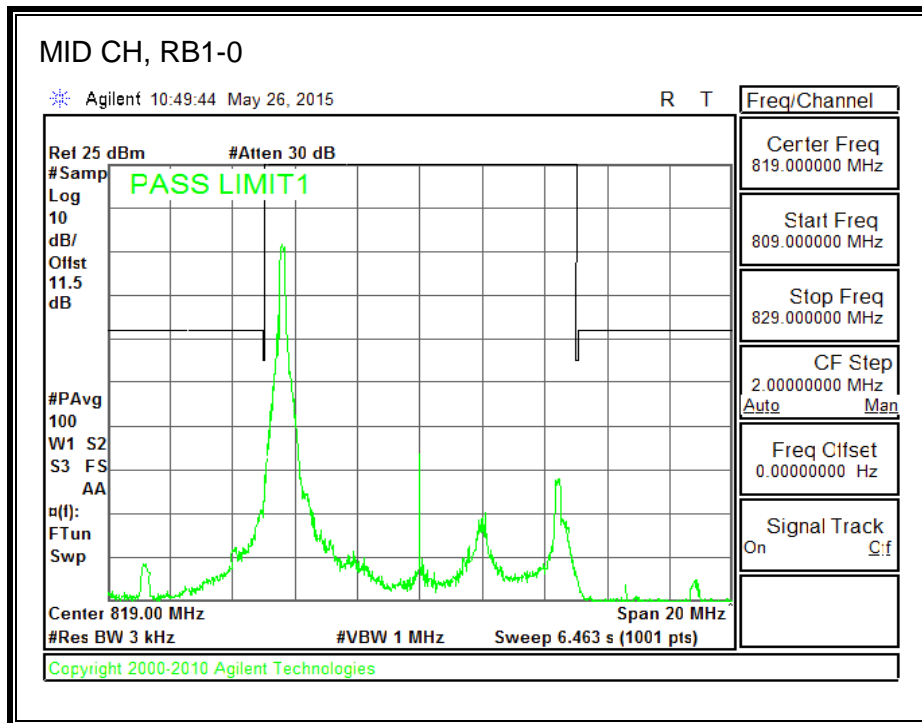


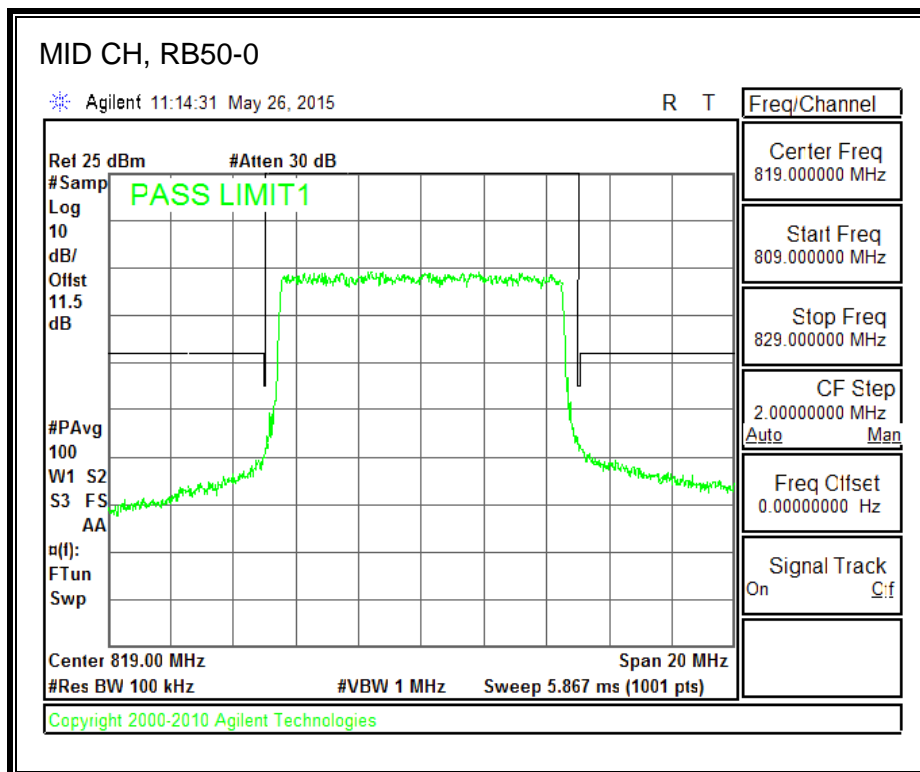
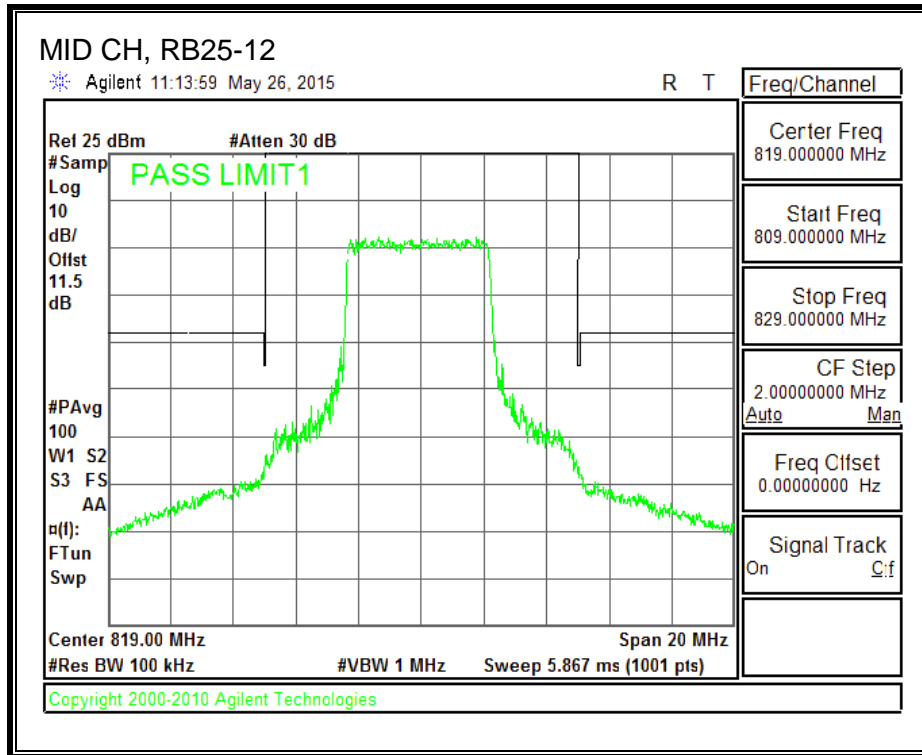
**QPSK, (10.0 MHz BAND WIDTH)**





**16QAM, (10.0 MHz BAND WIDTH)**

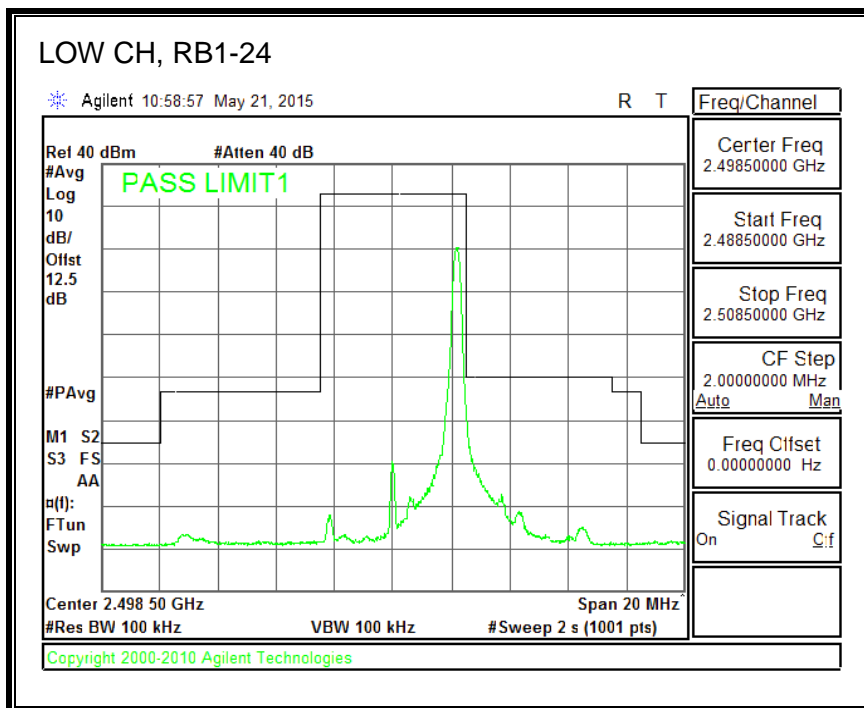
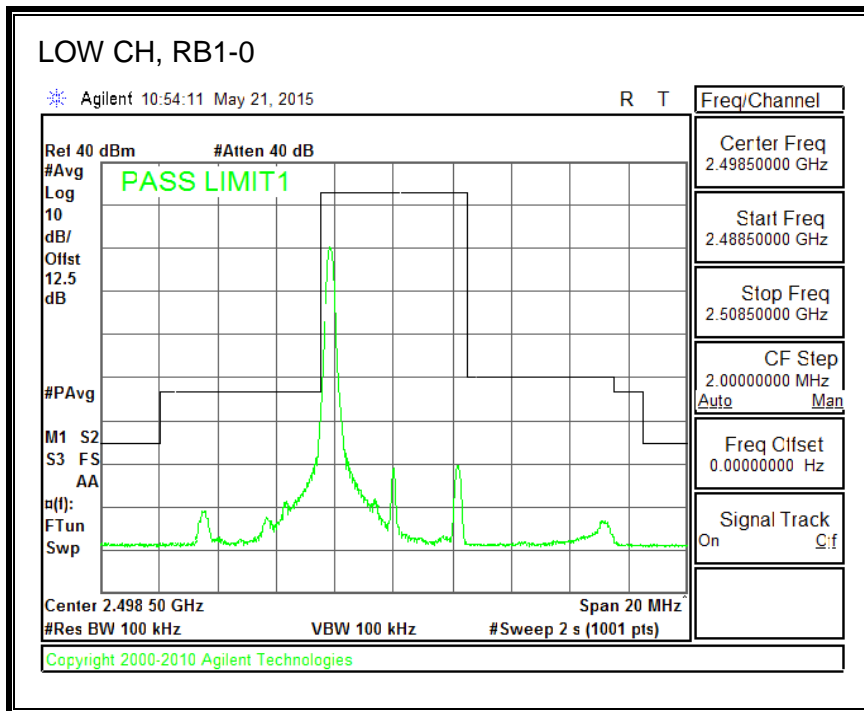


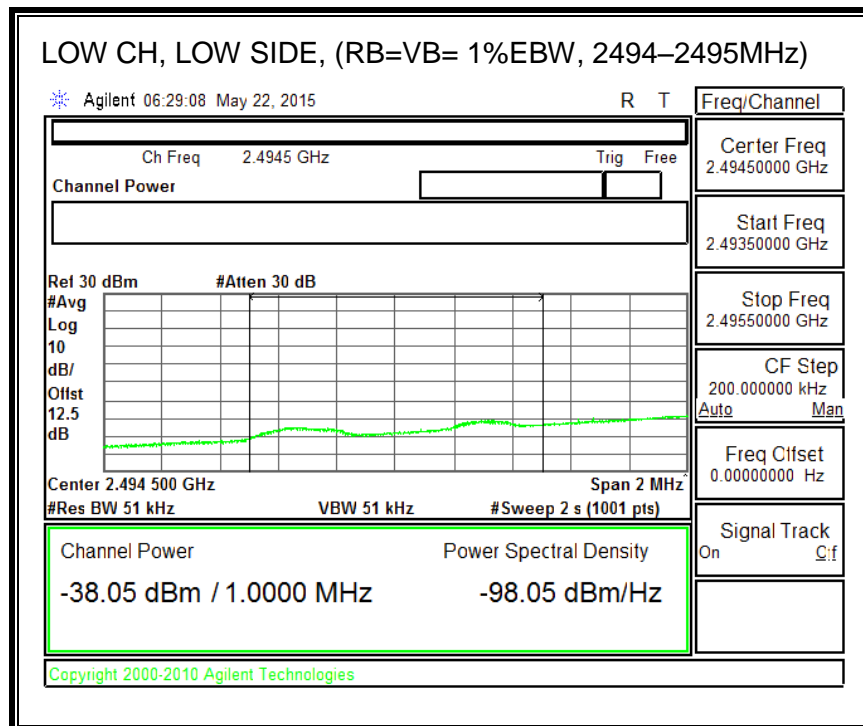
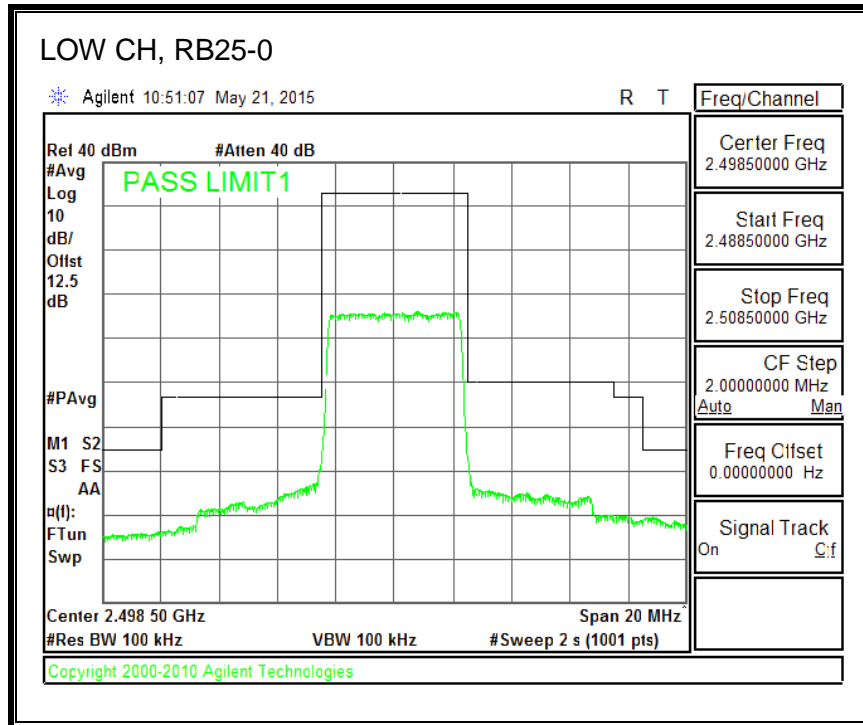


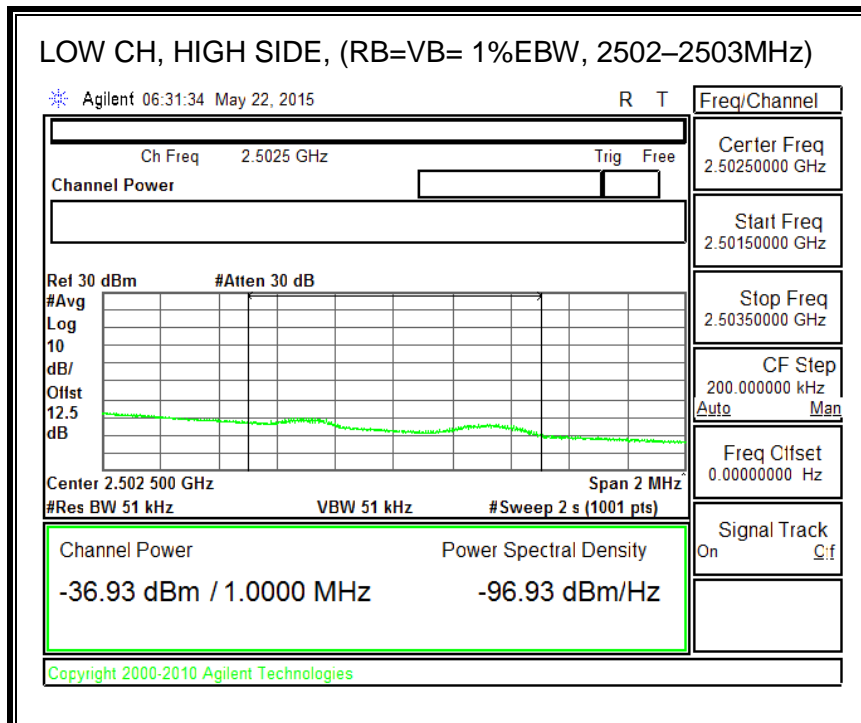
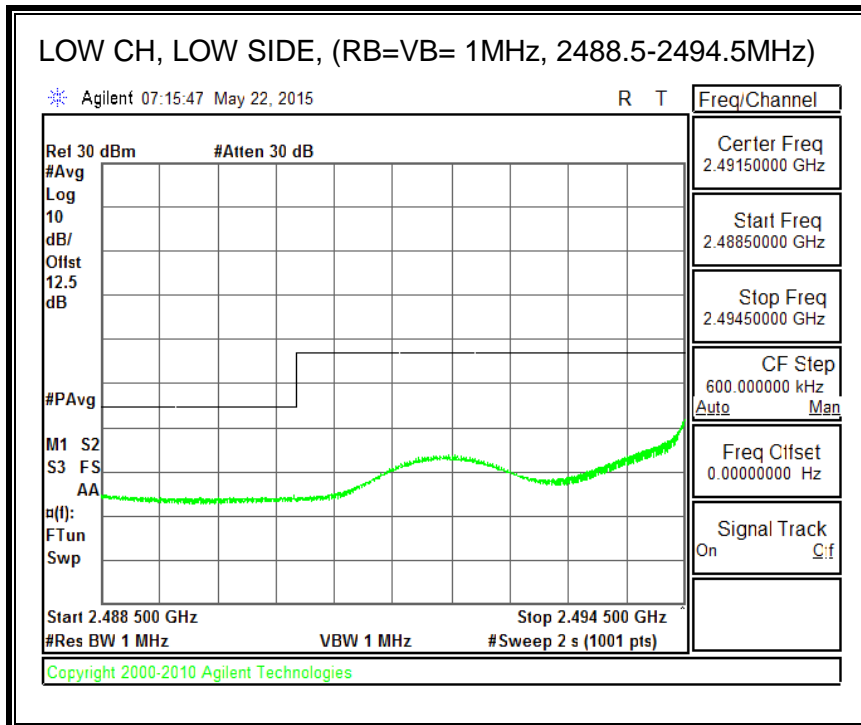


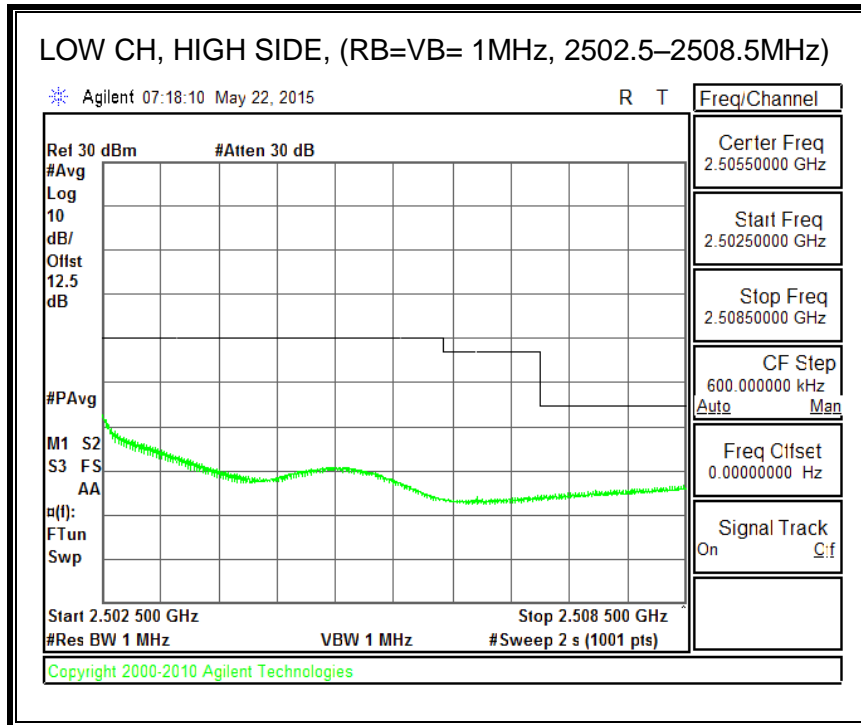
### 8.4.10. LTE BAND 41 EMISSION MASK

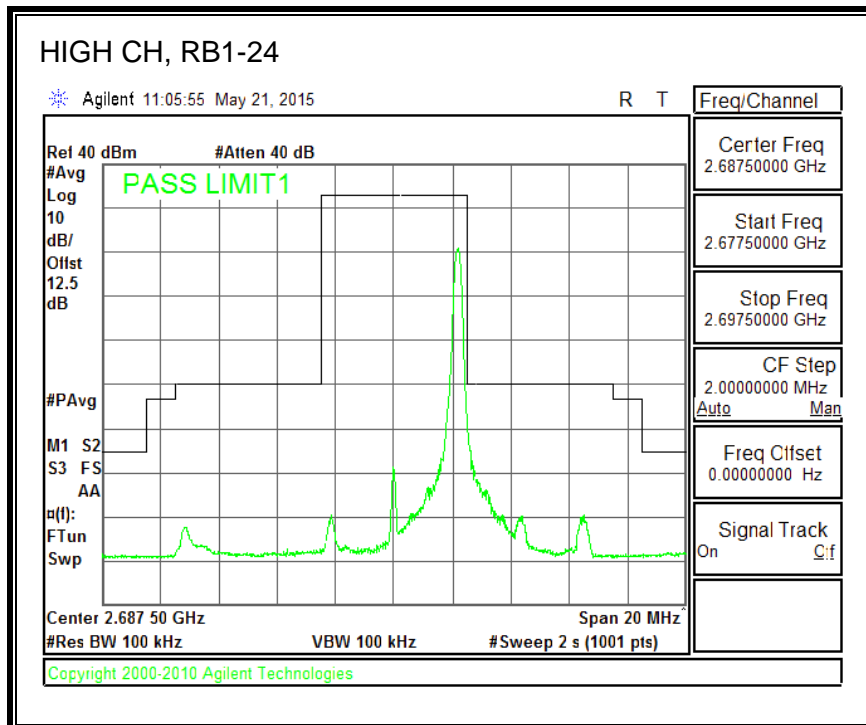
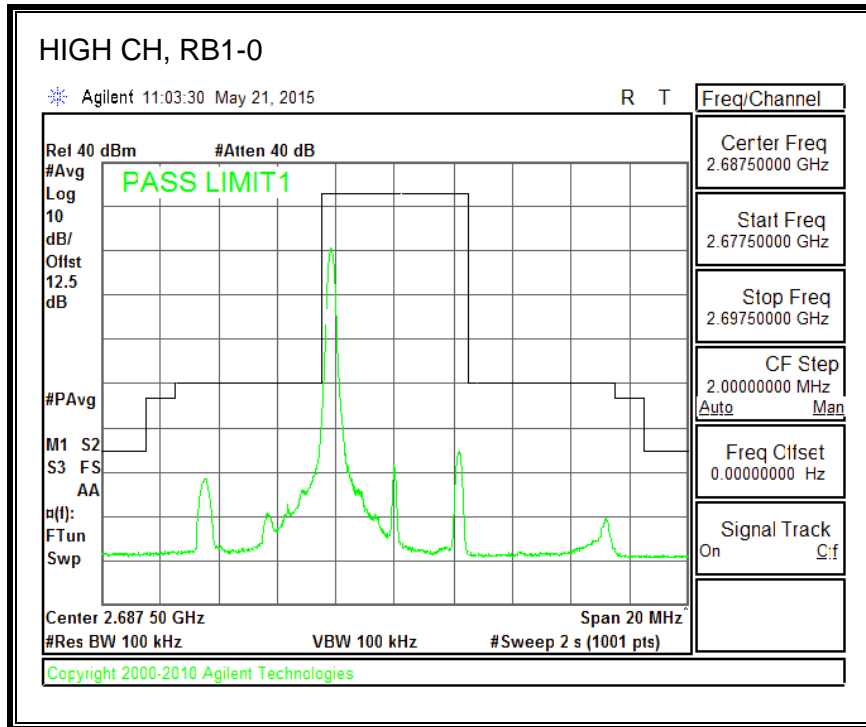
#### QPSK, (5.0 MHz BAND WIDTH)

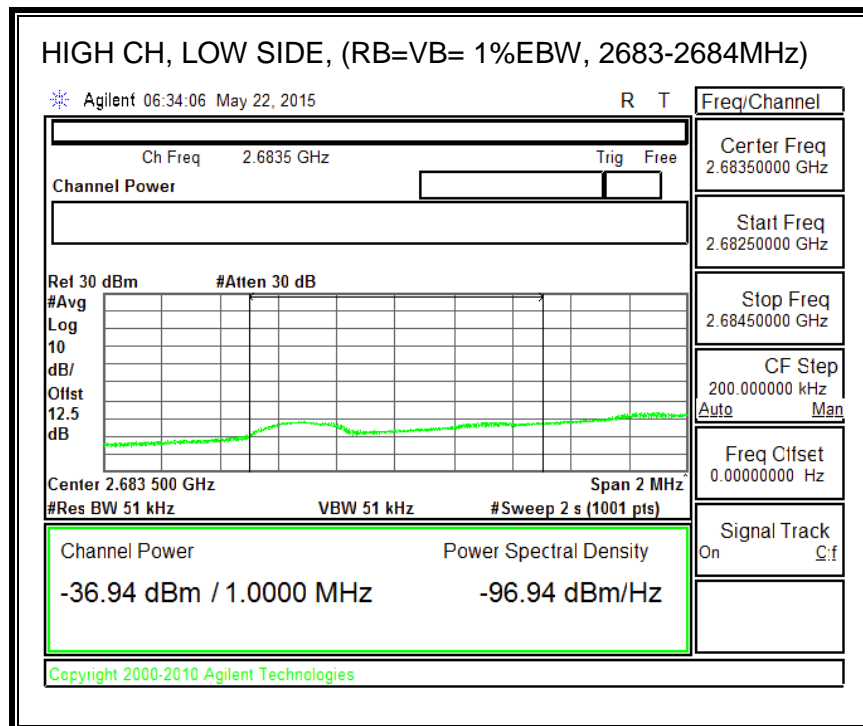
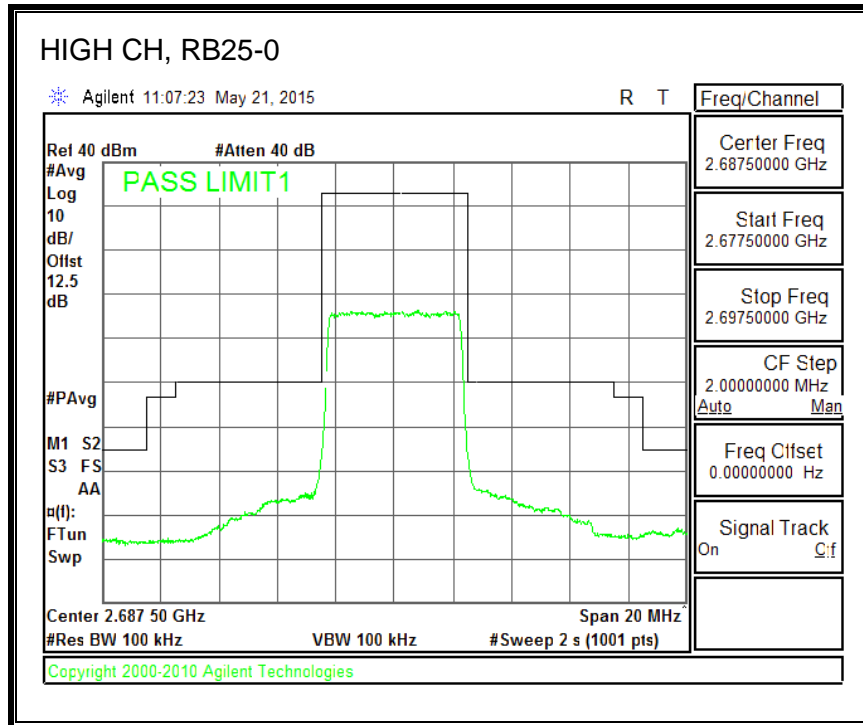


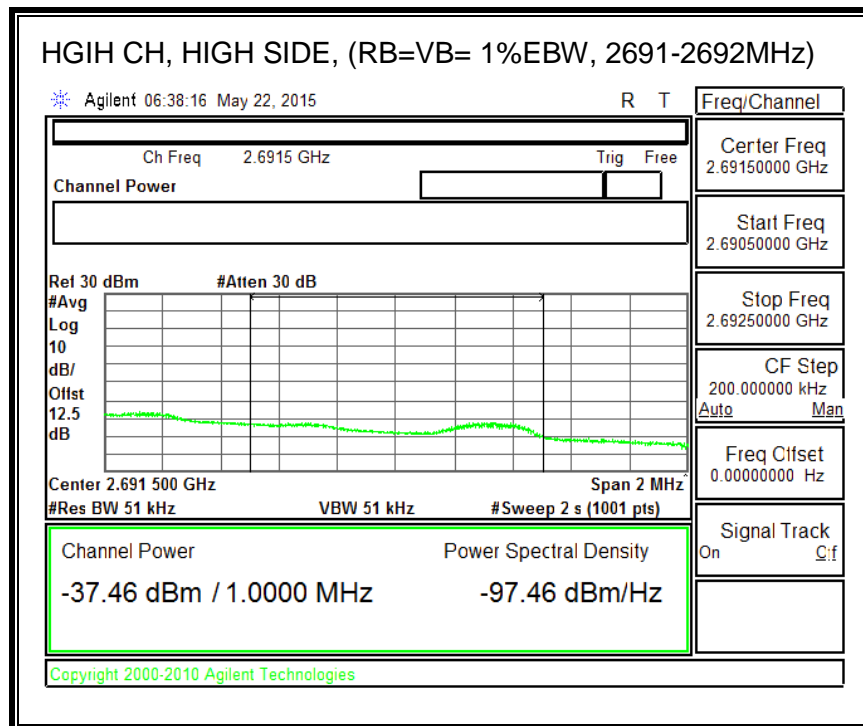
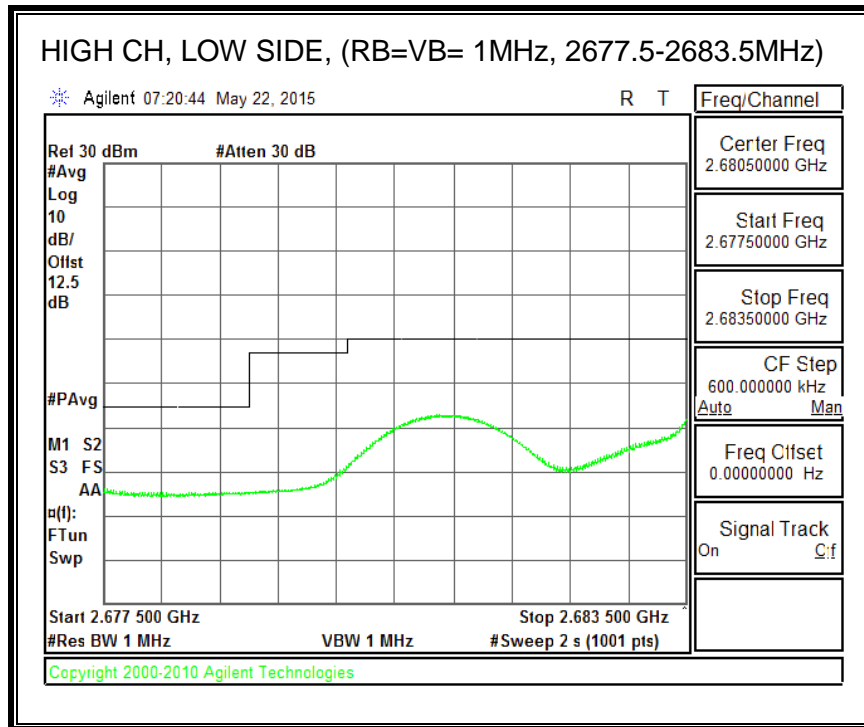


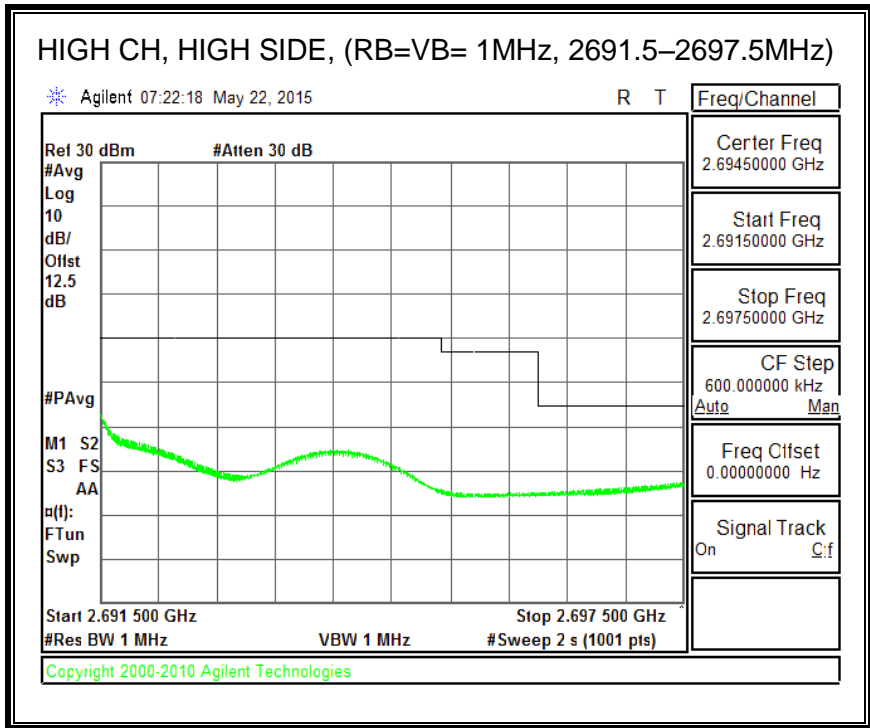






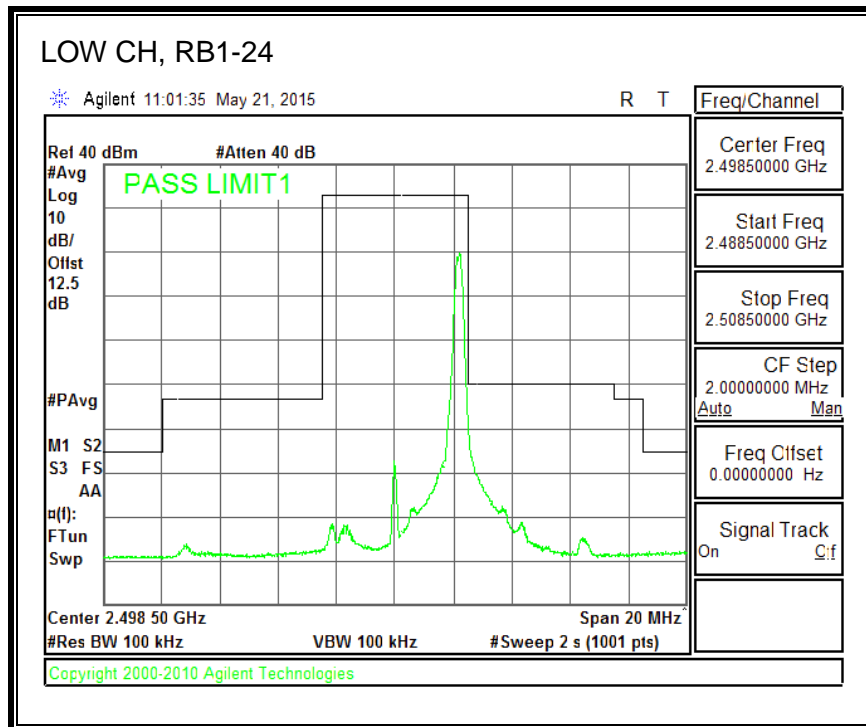
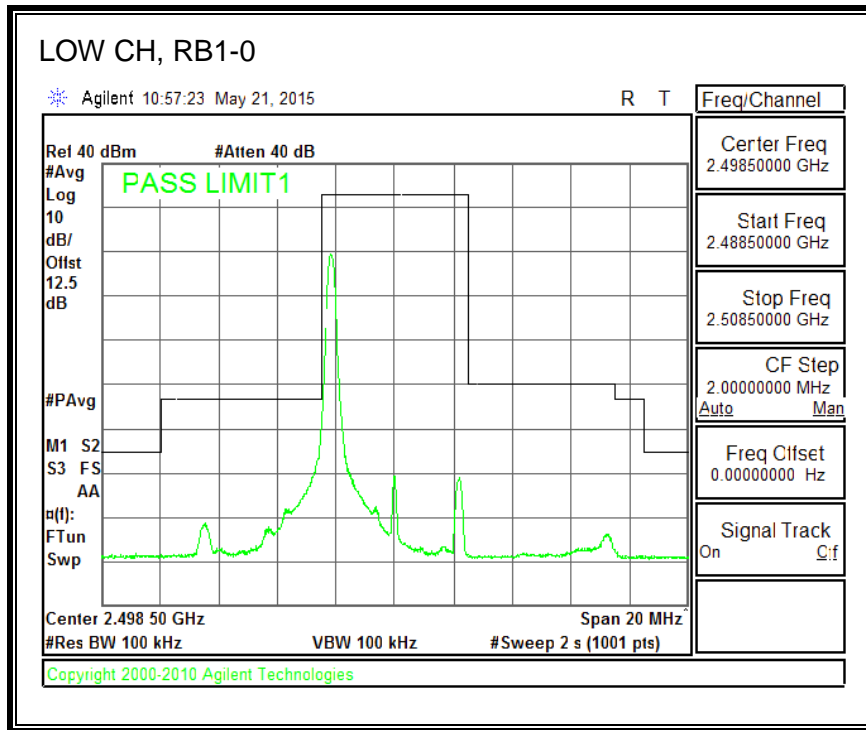


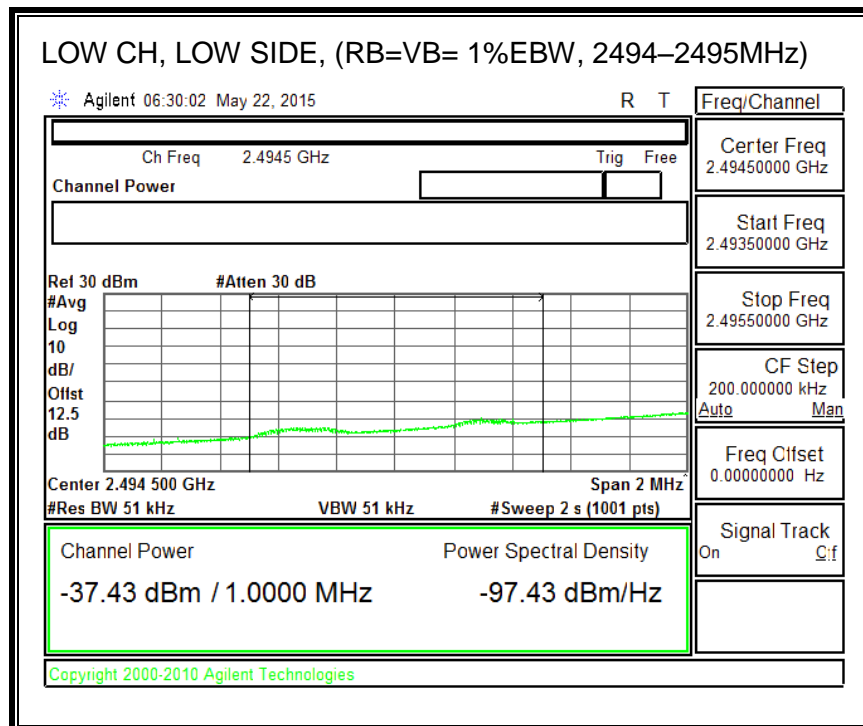
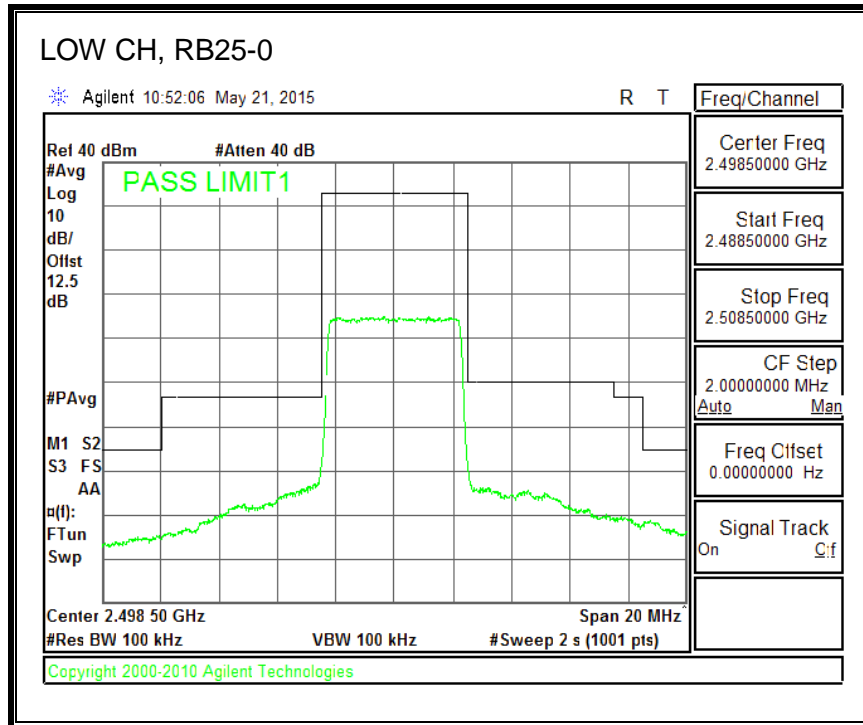


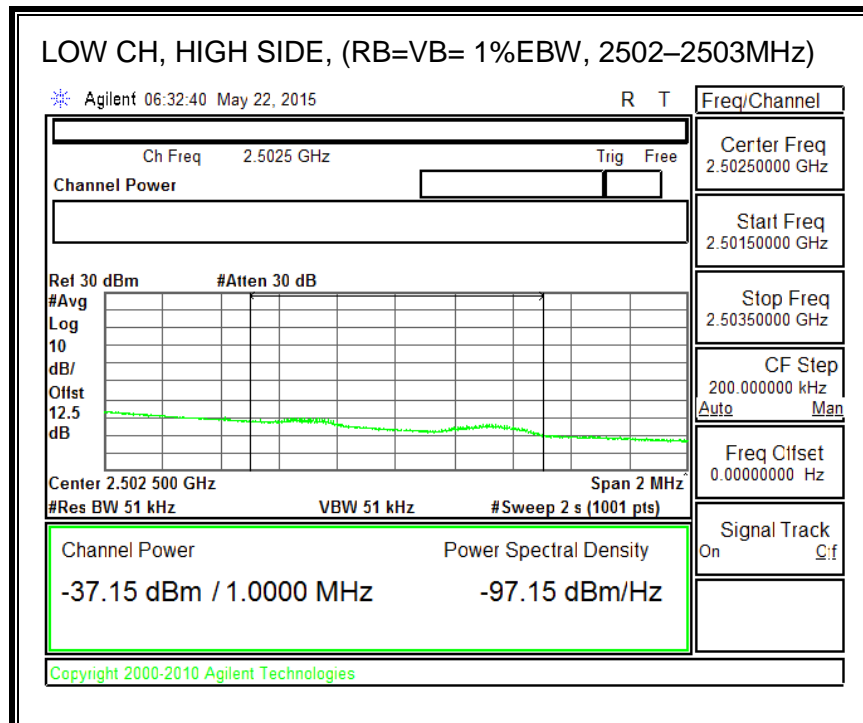
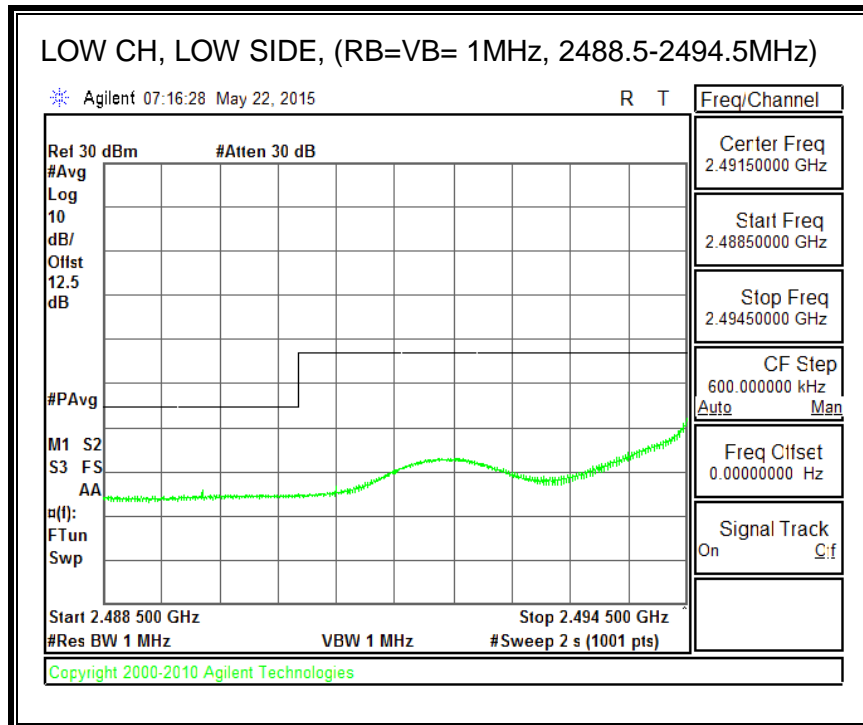


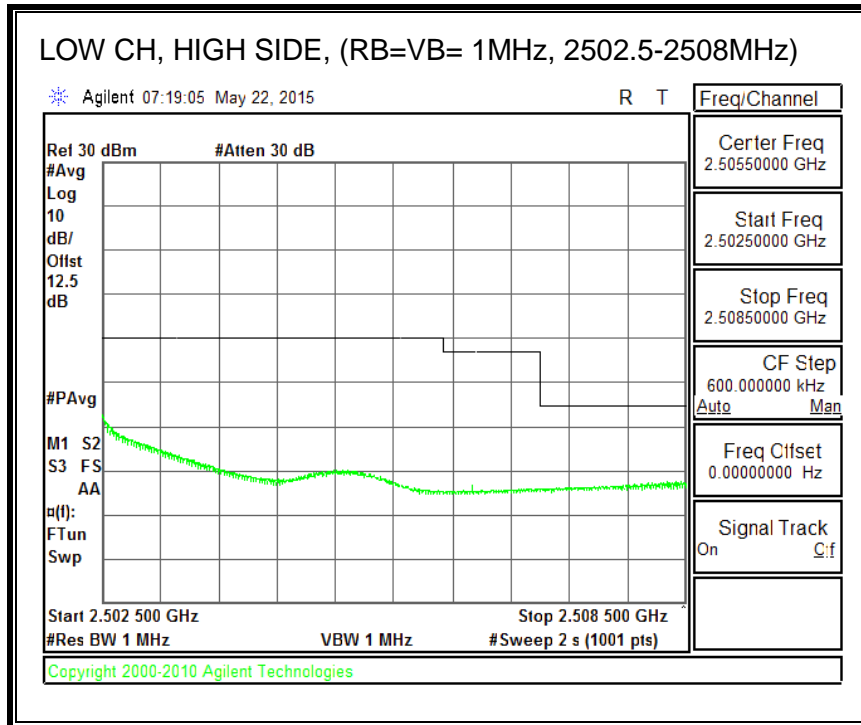


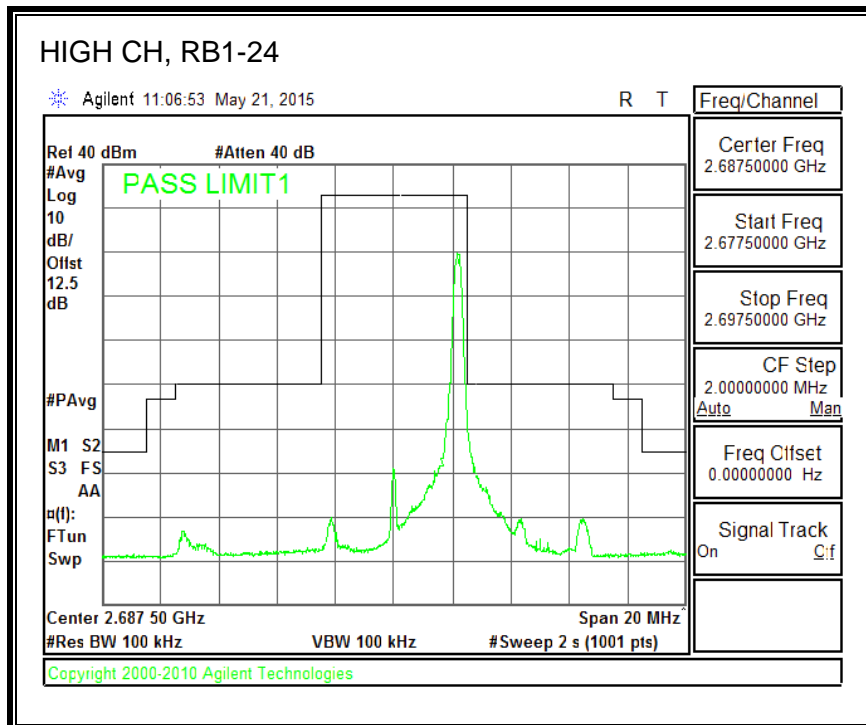
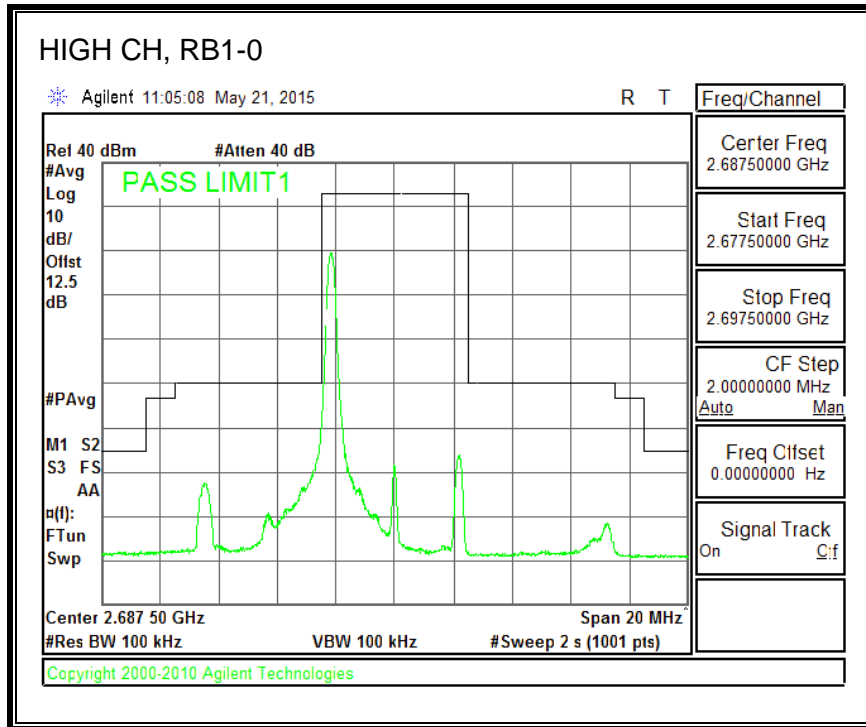
**16QAM, (5.0 MHz BAND WIDTH)**

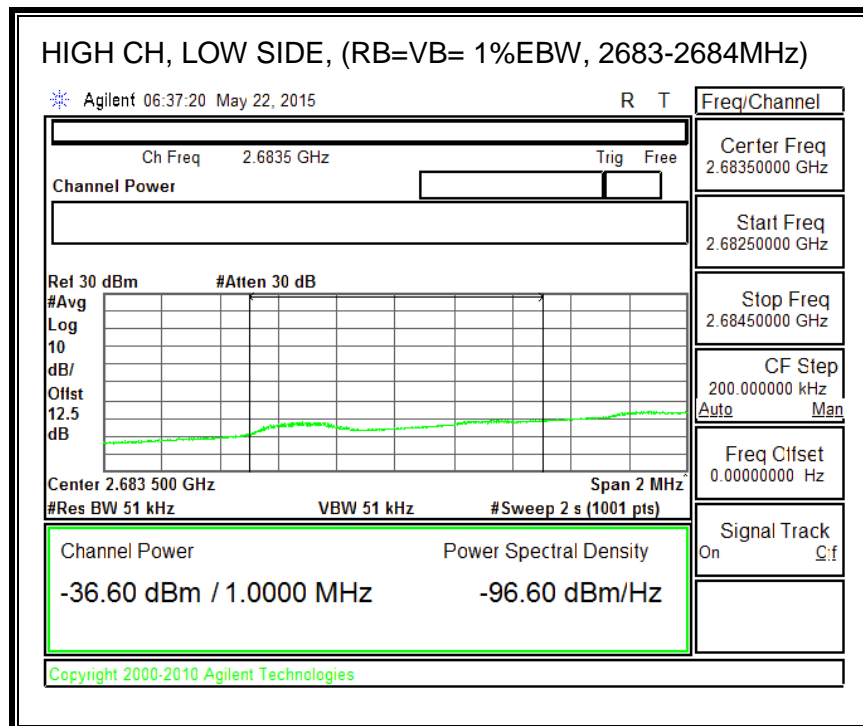
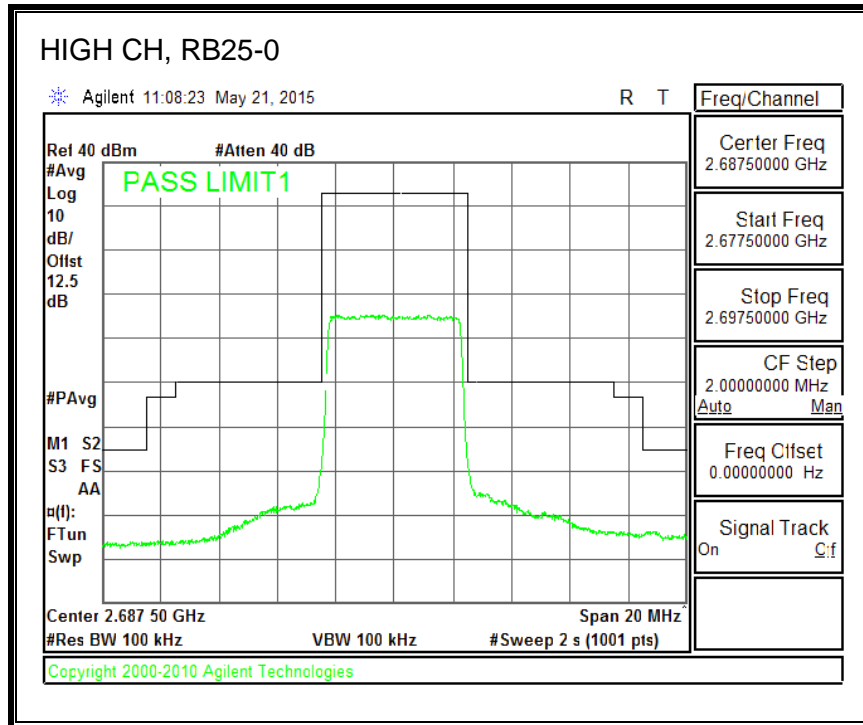


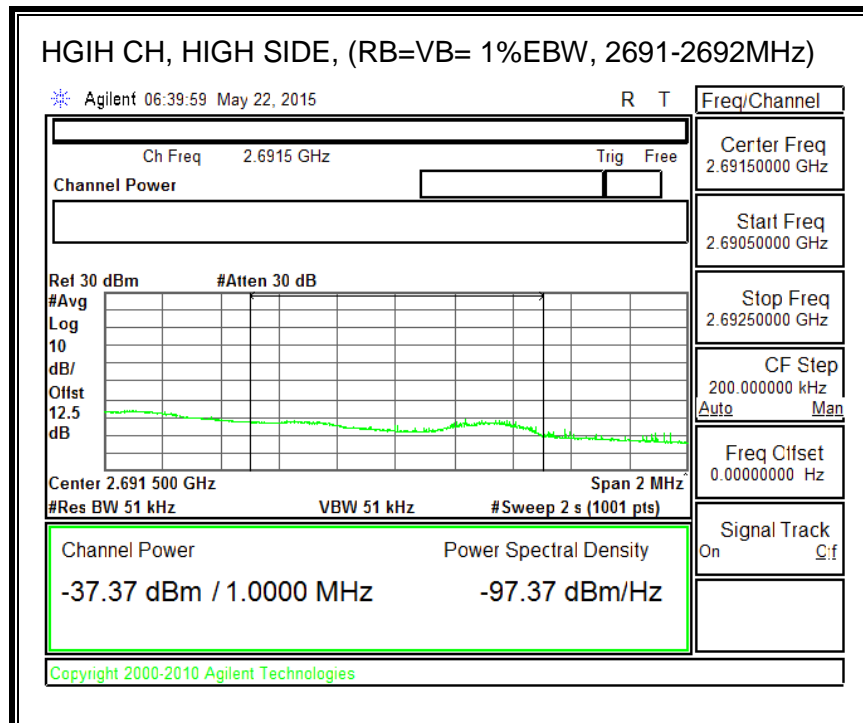
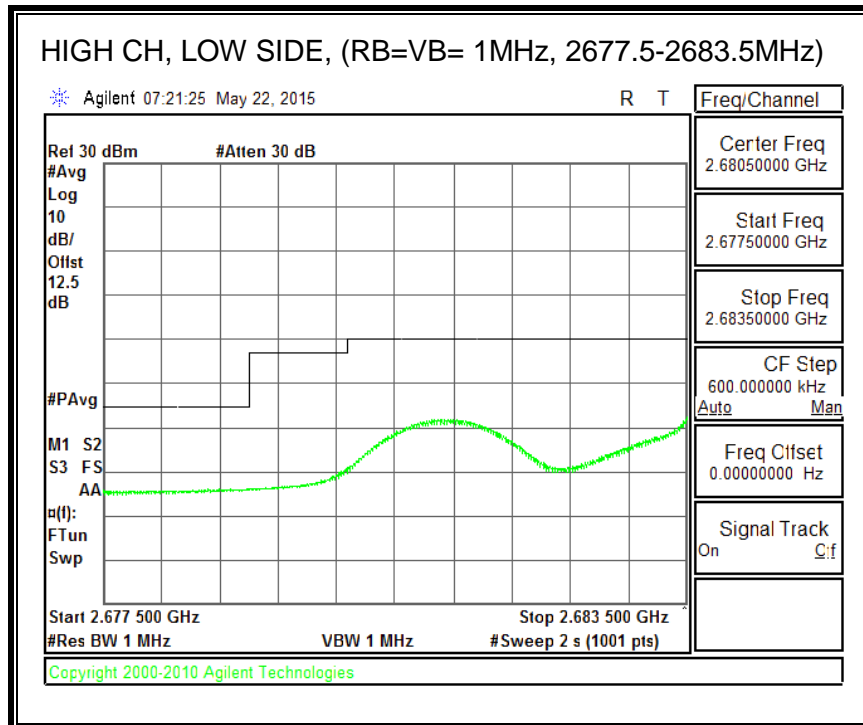


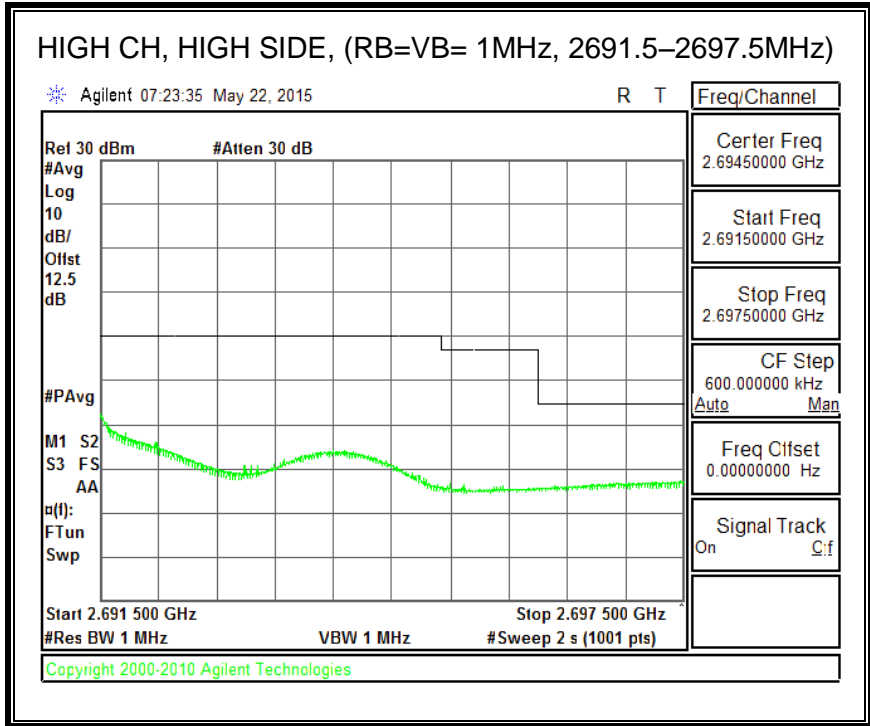






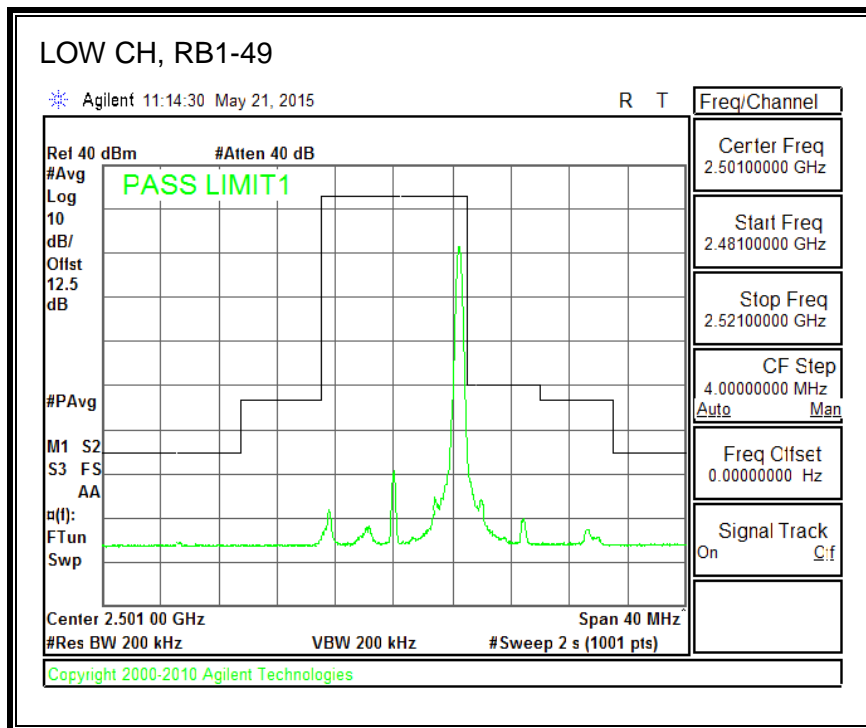
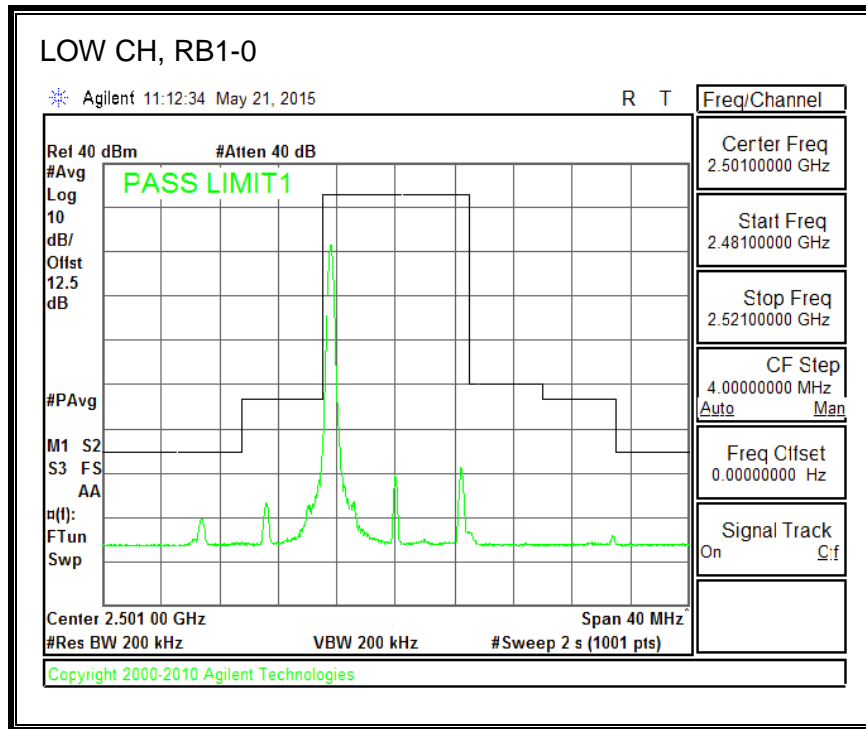


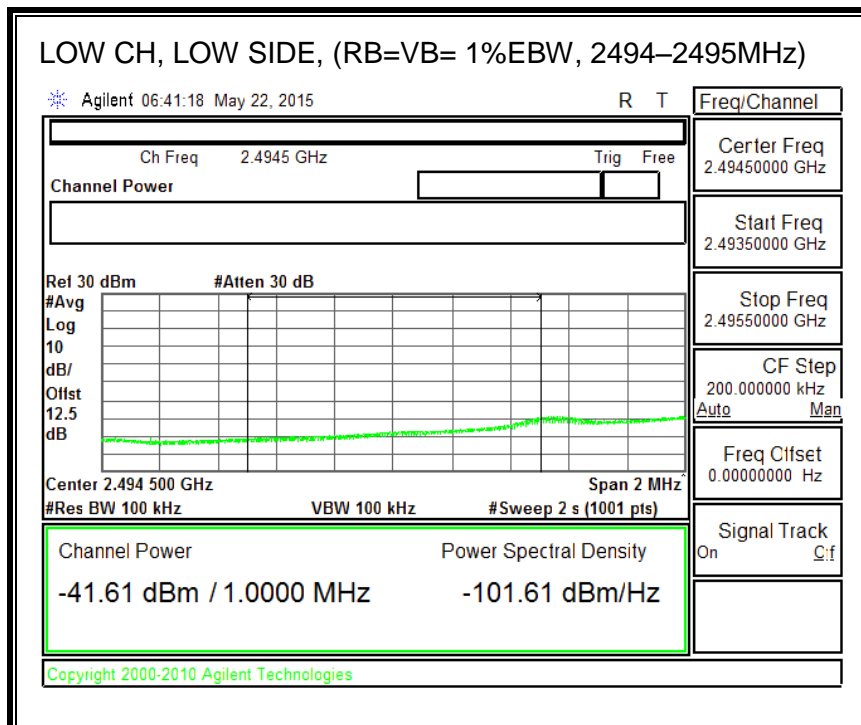
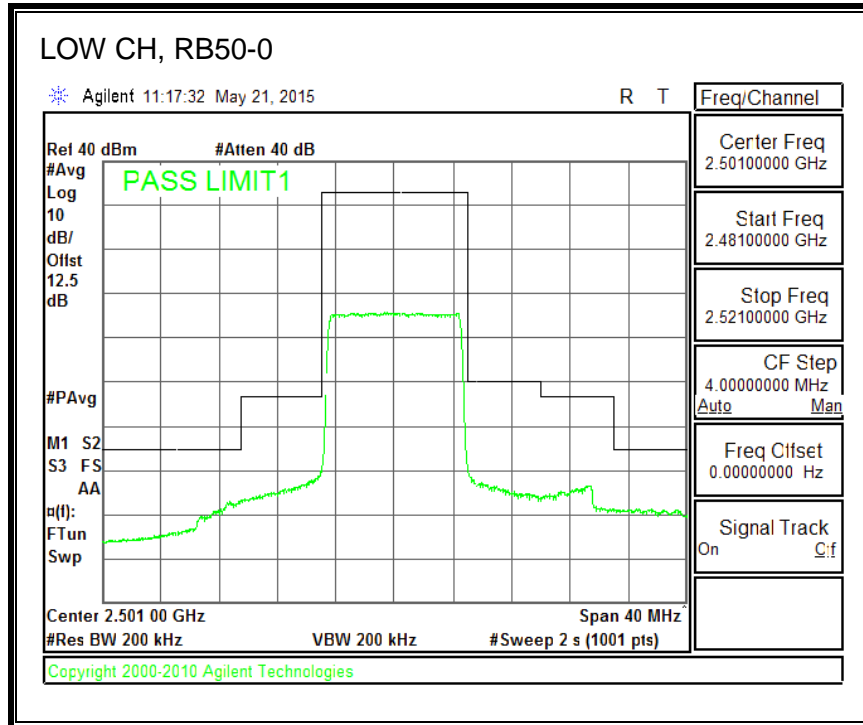


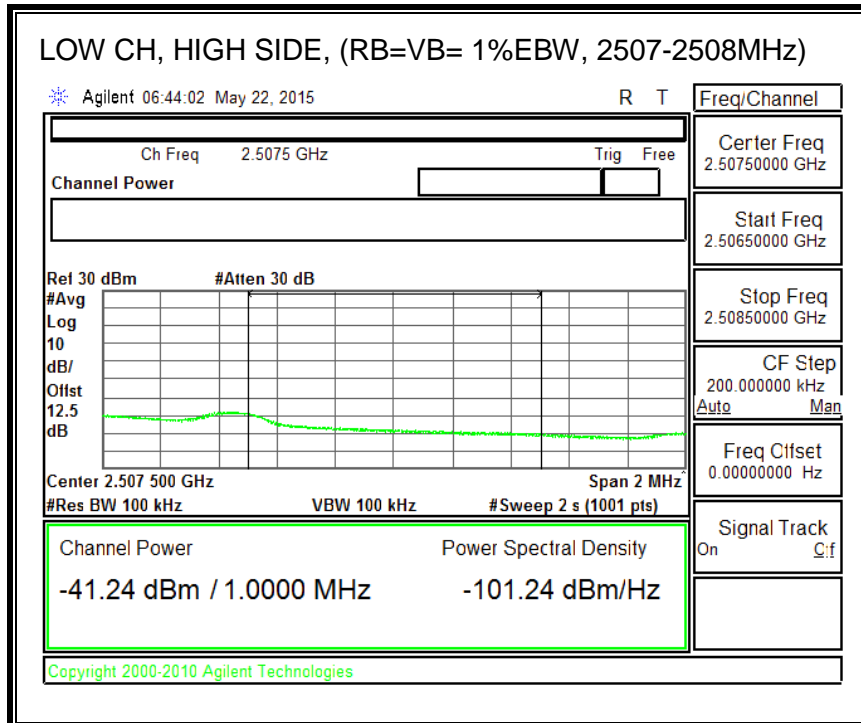
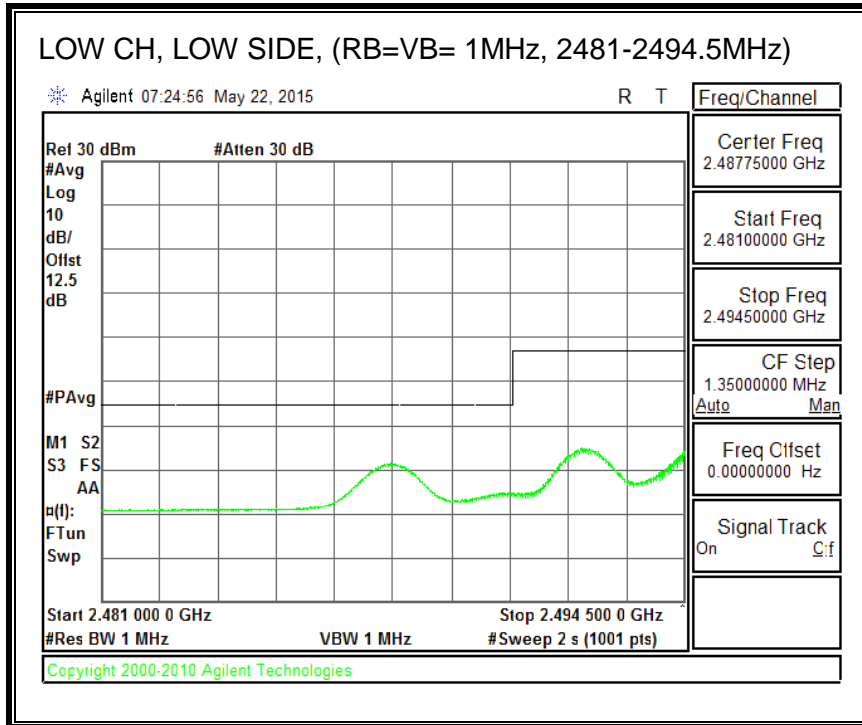


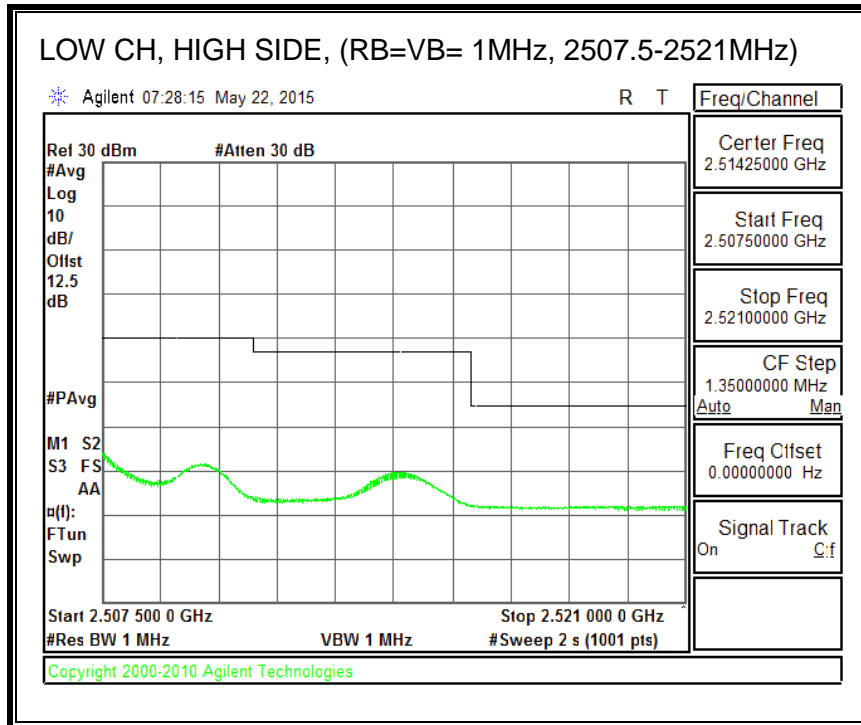


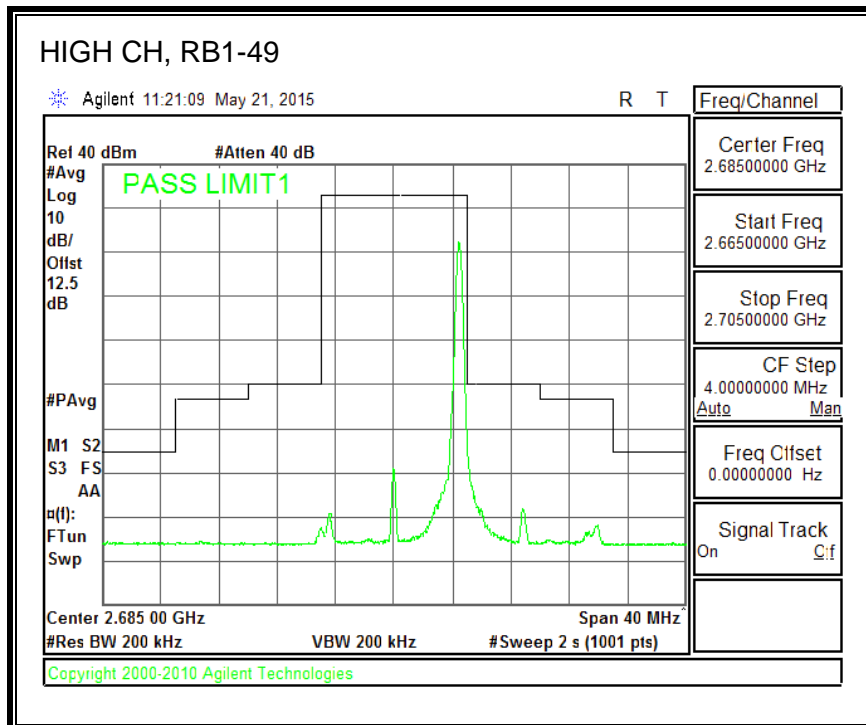
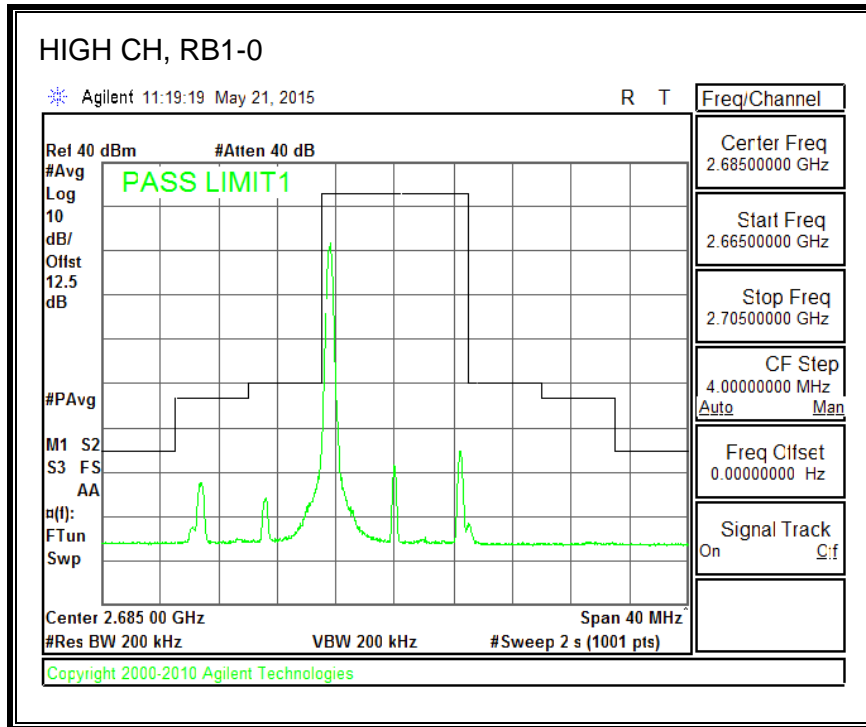
**QPSK, (10.0 MHz BAND WIDTH)**

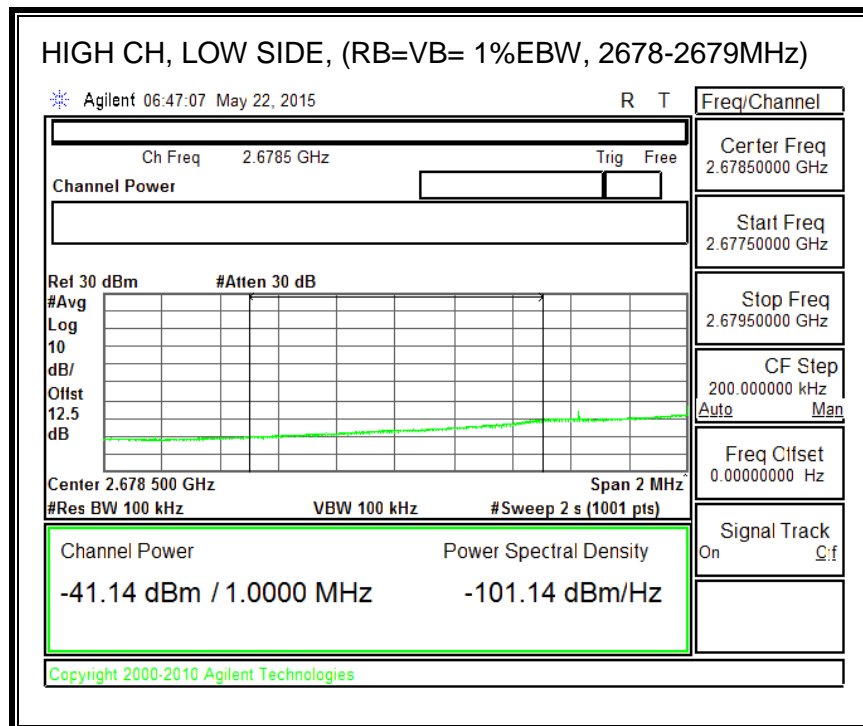
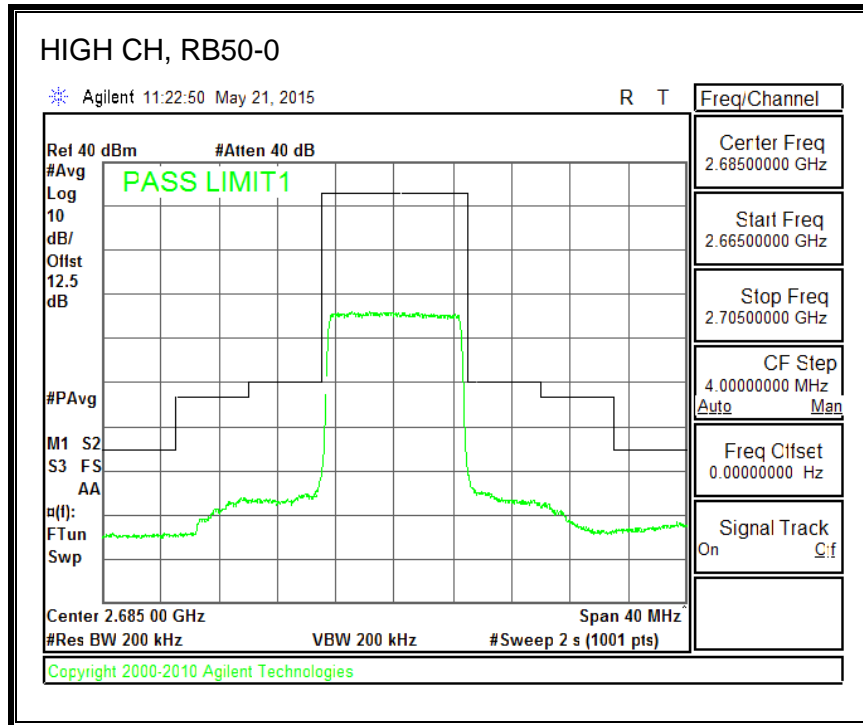


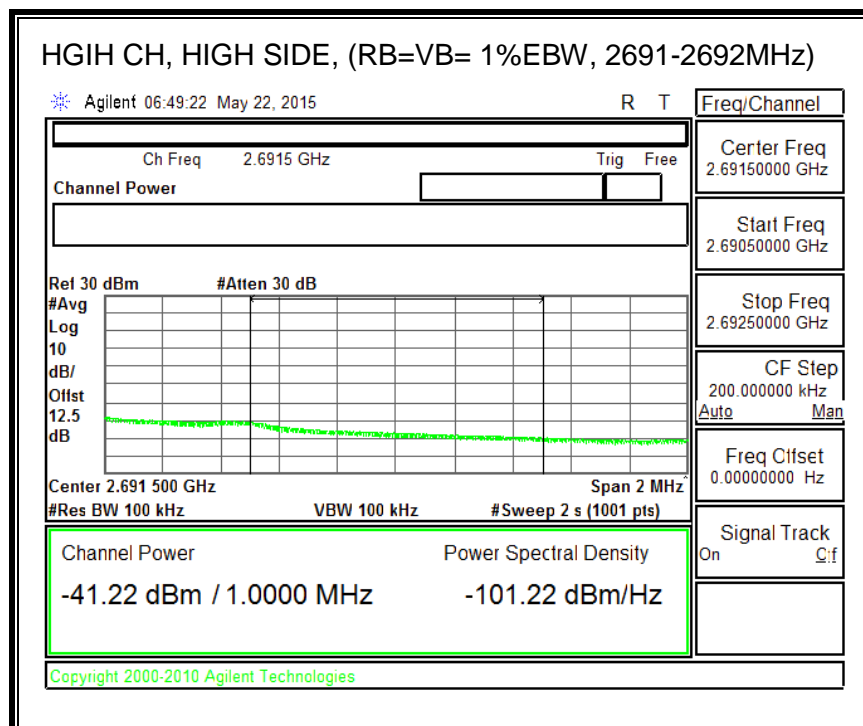
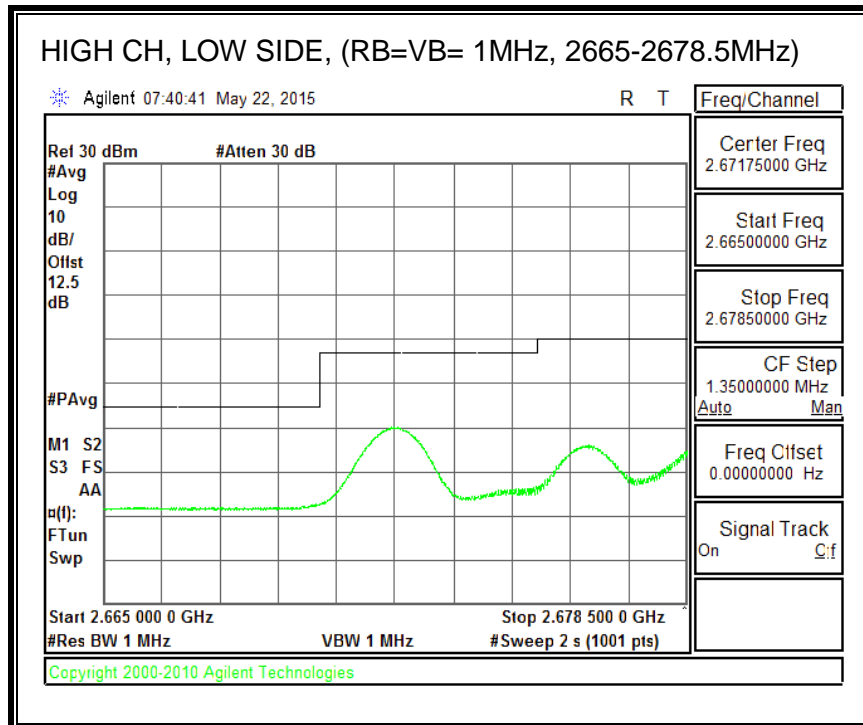


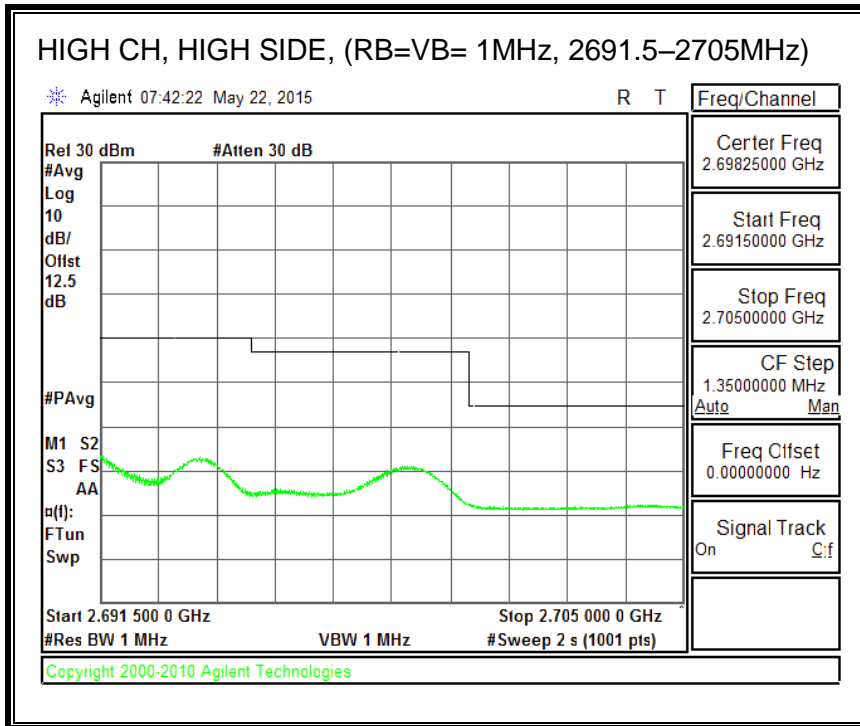






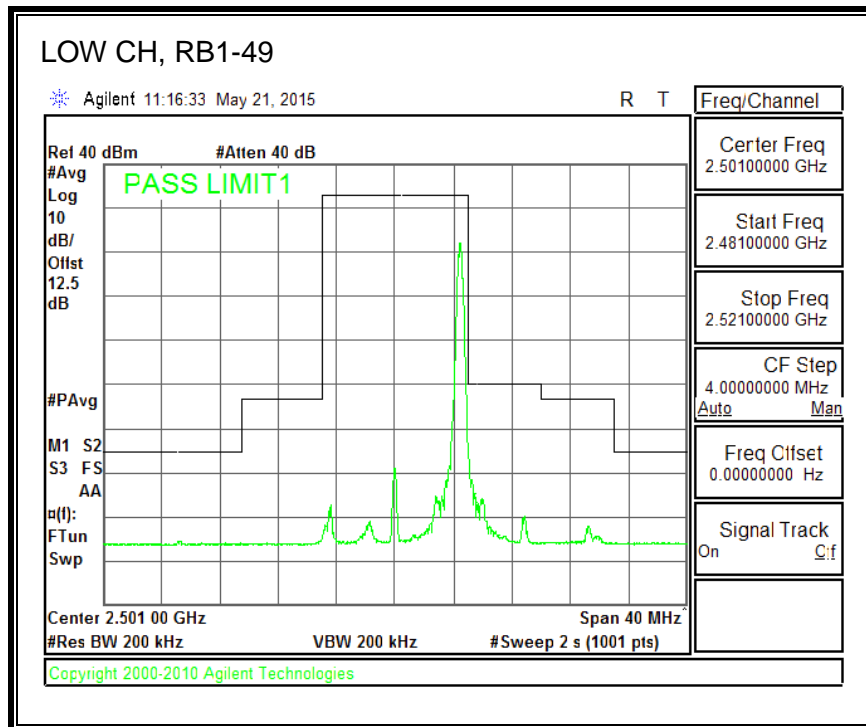
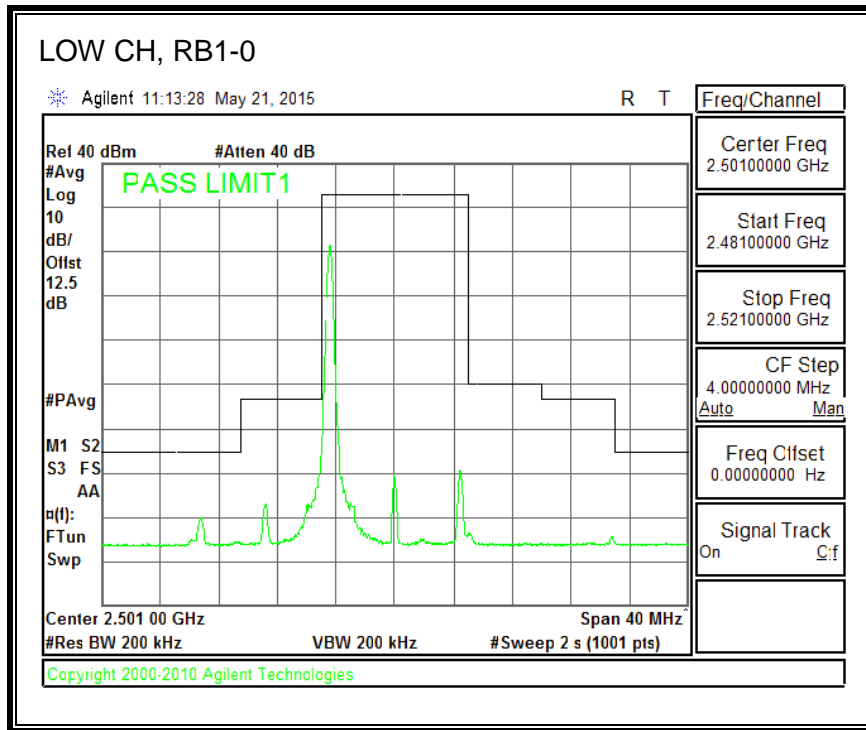


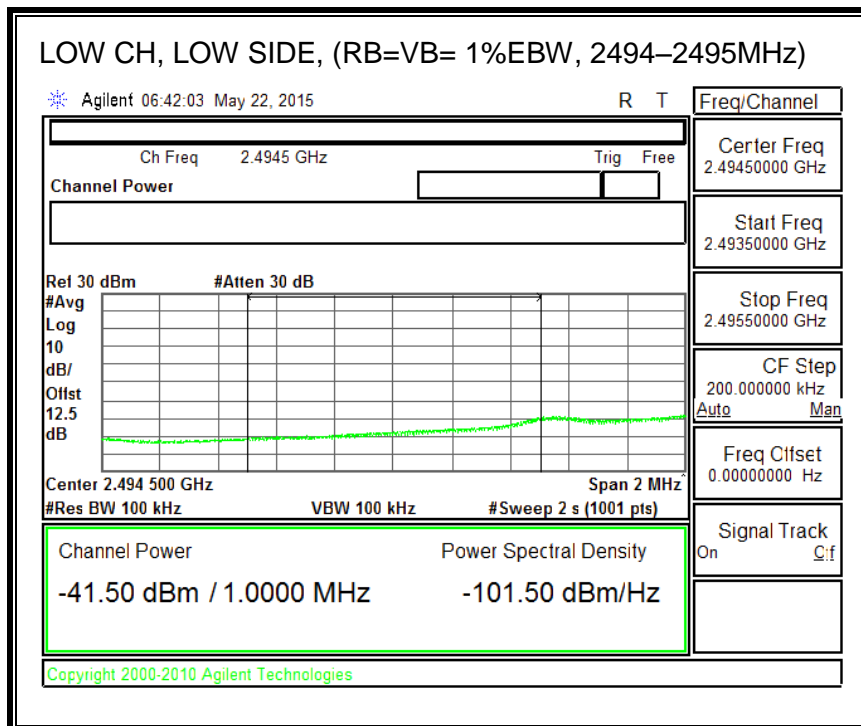
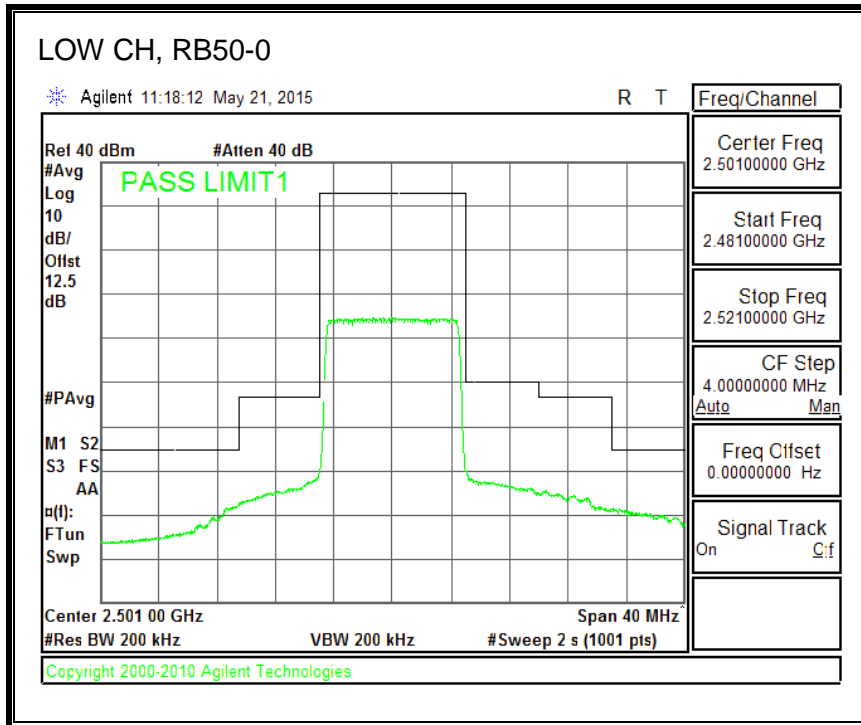


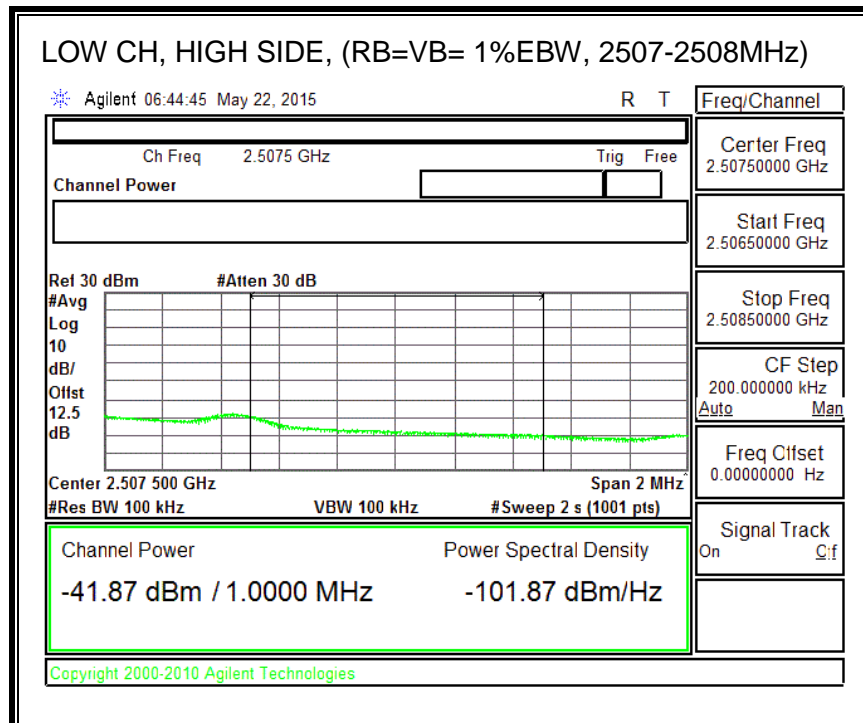
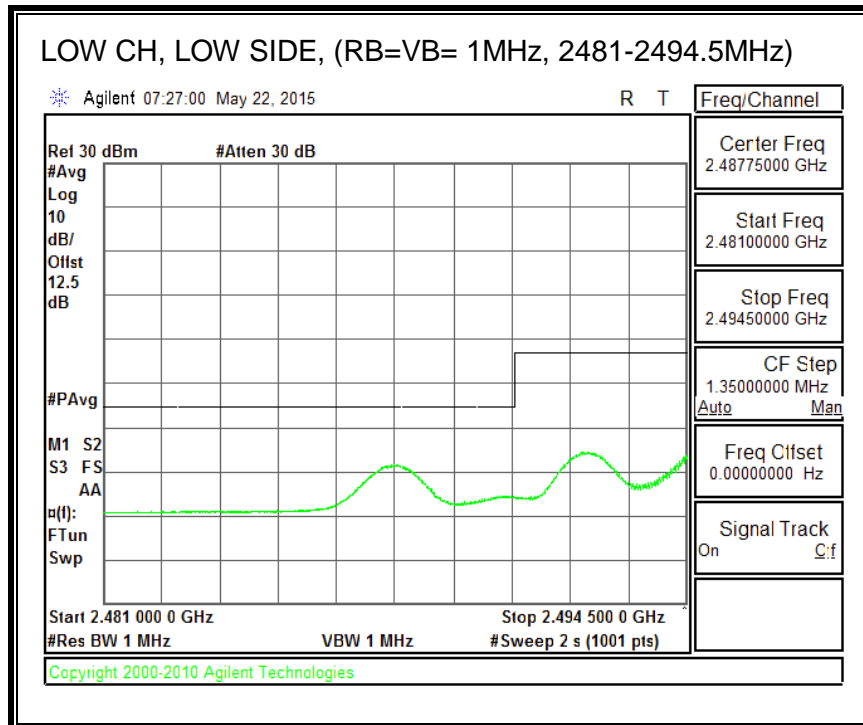


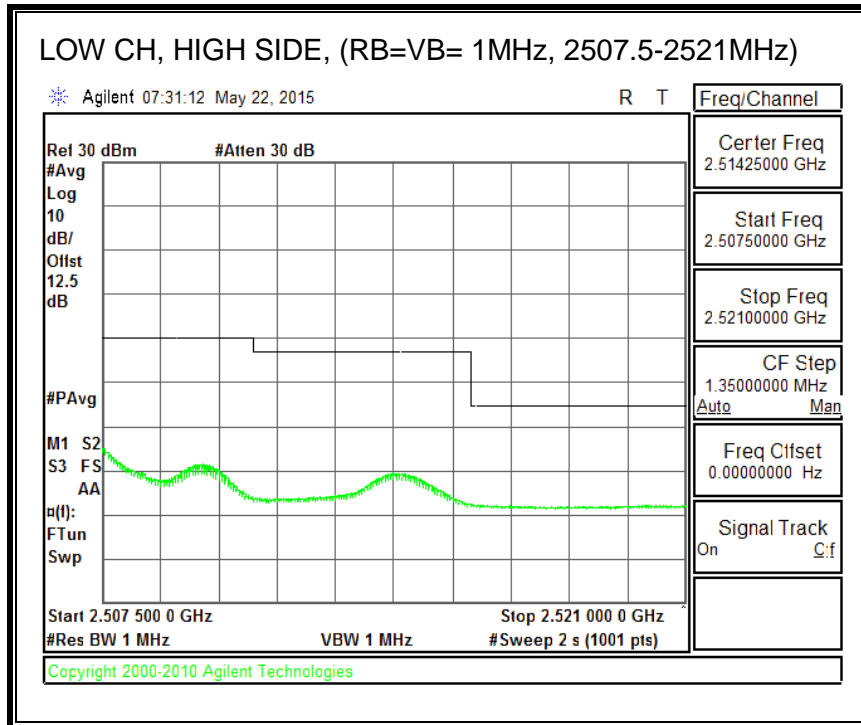


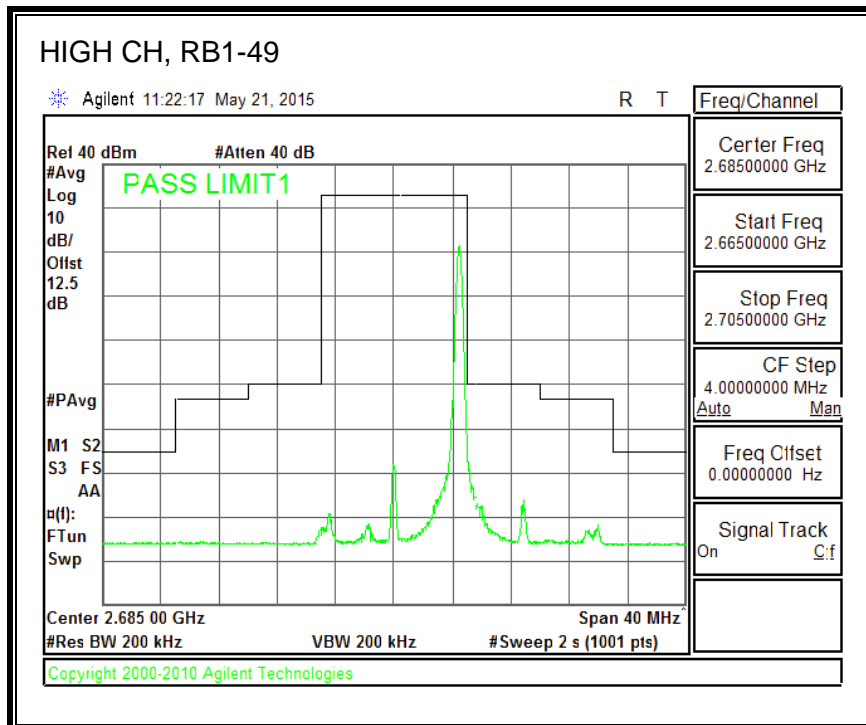
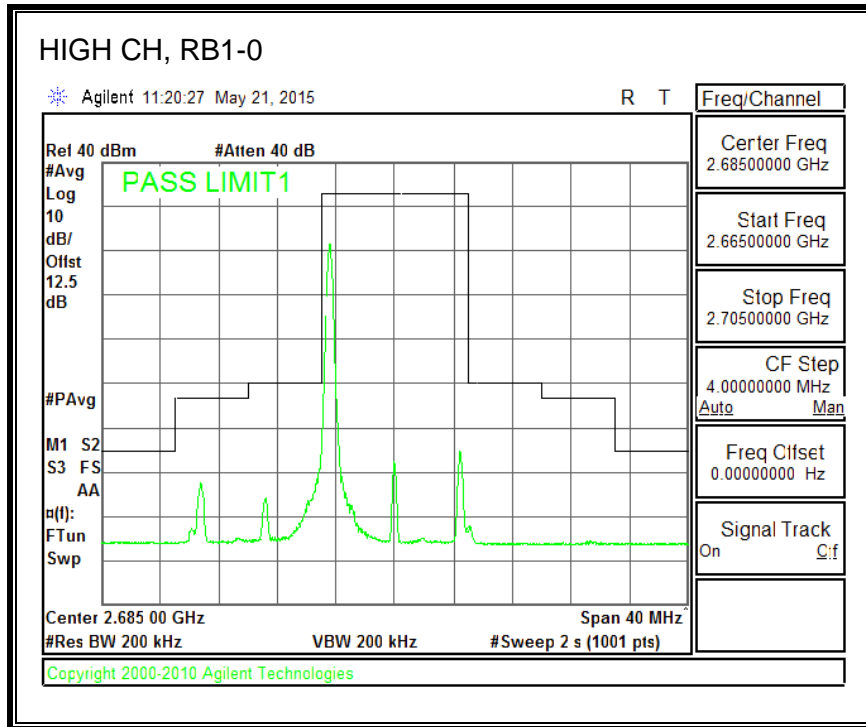
**16QAM, (10.0 MHz BAND WIDTH)**

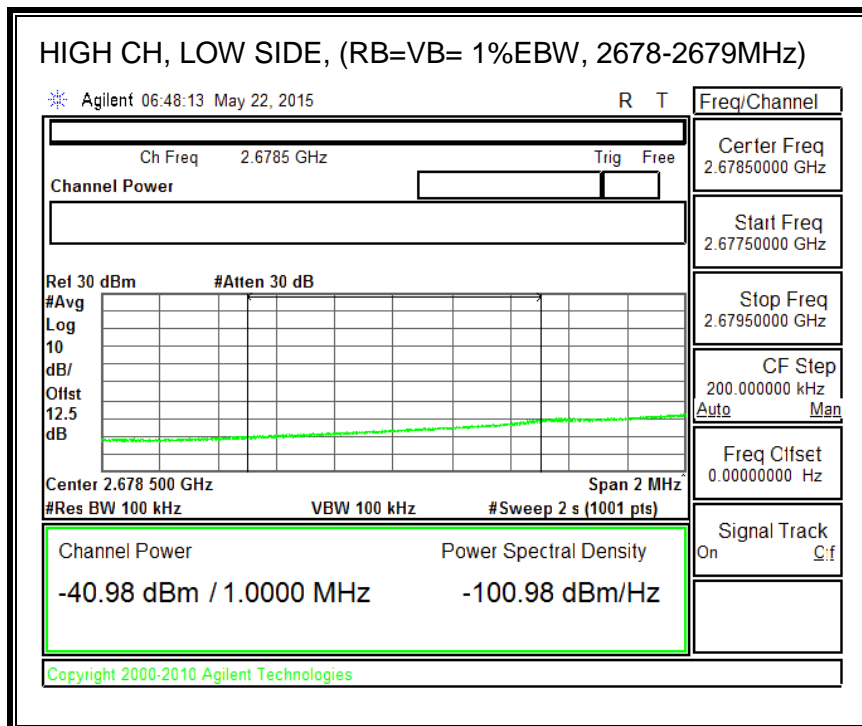
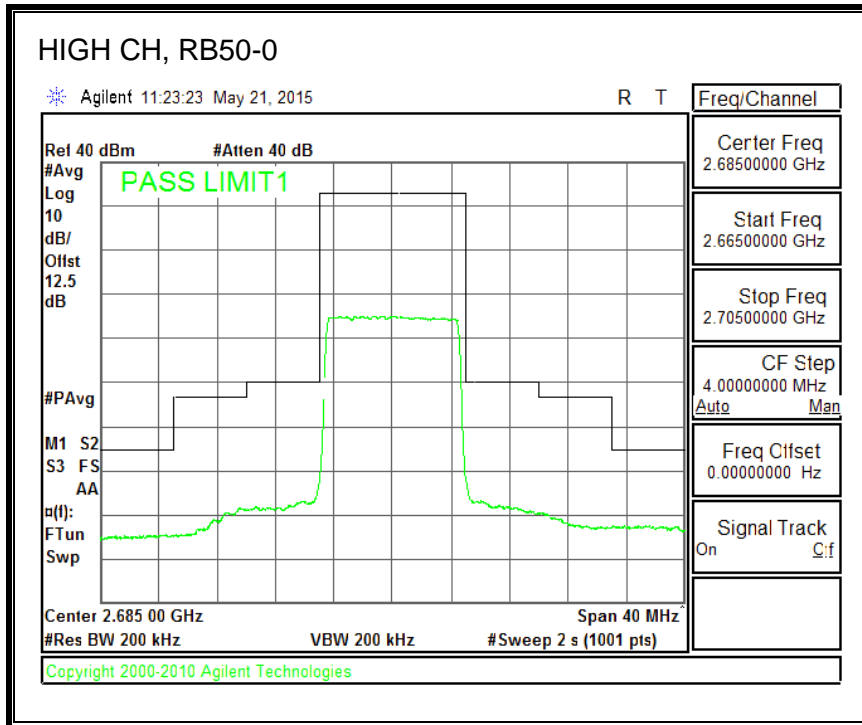


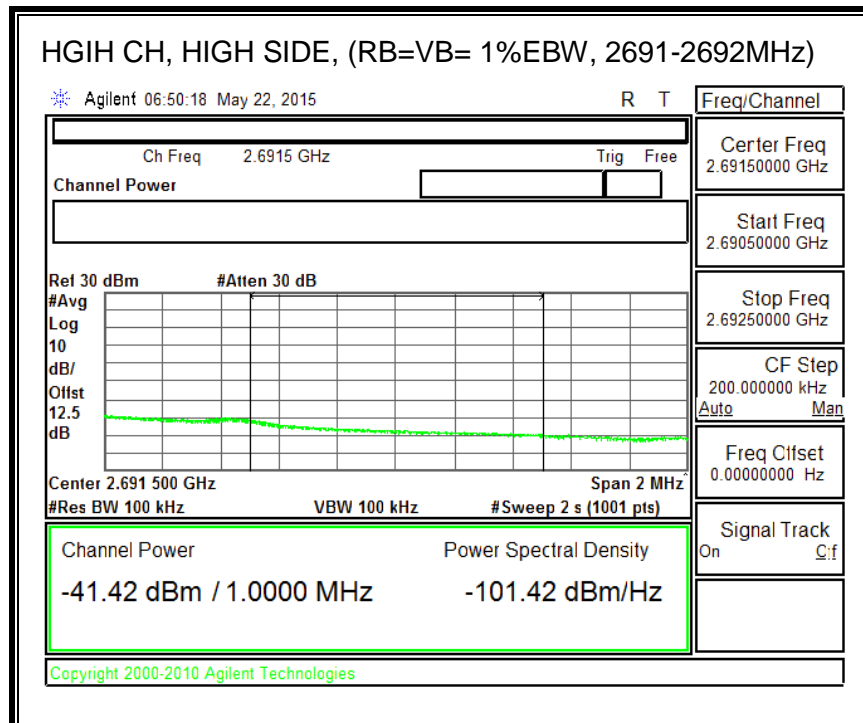
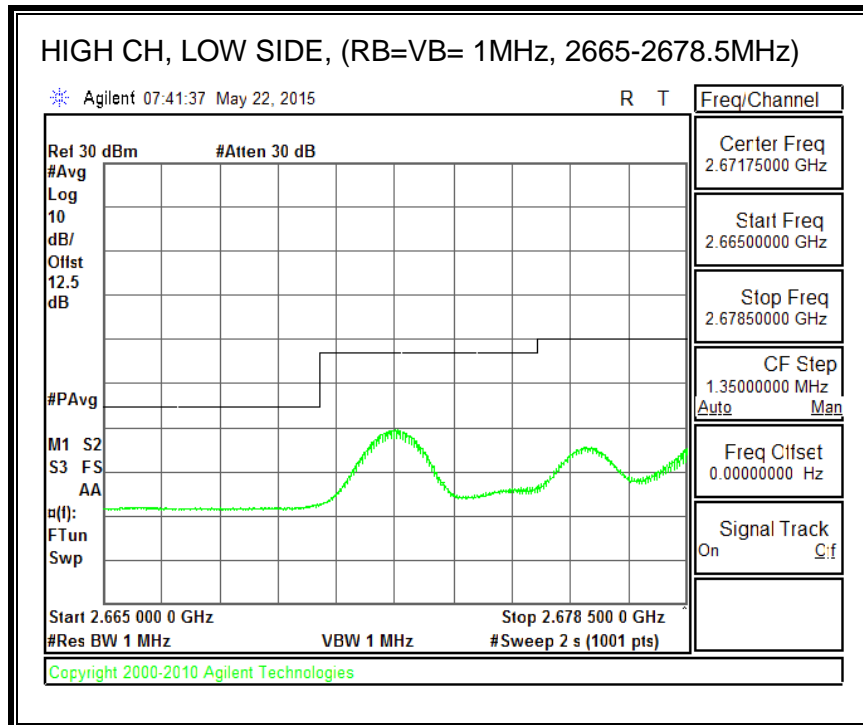


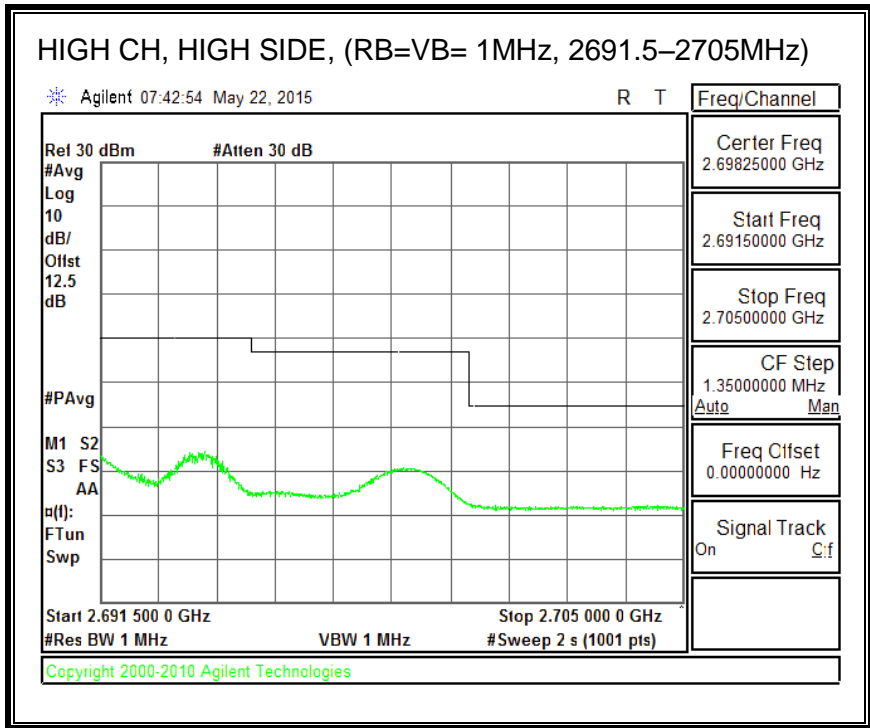






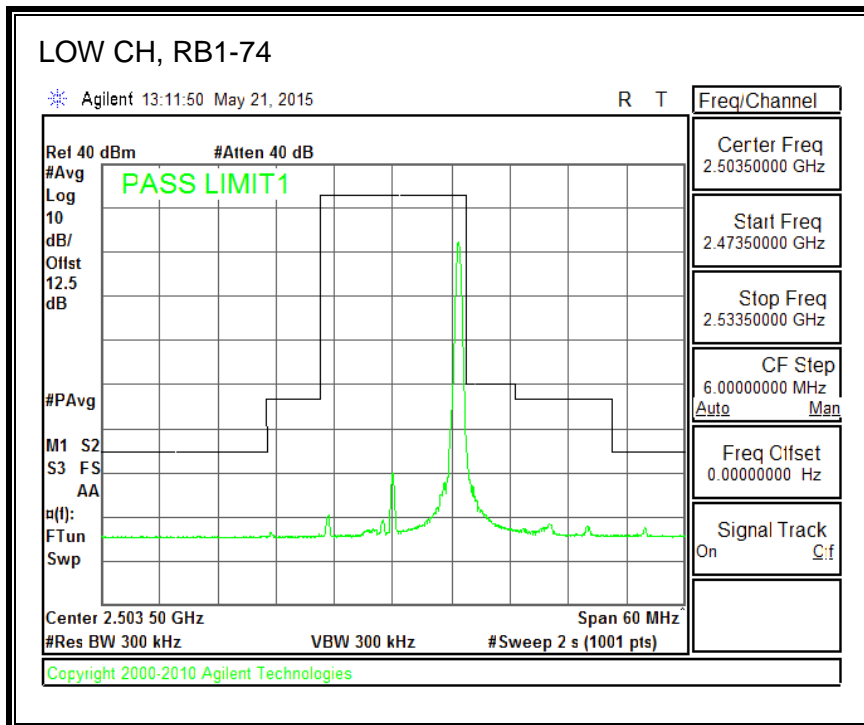
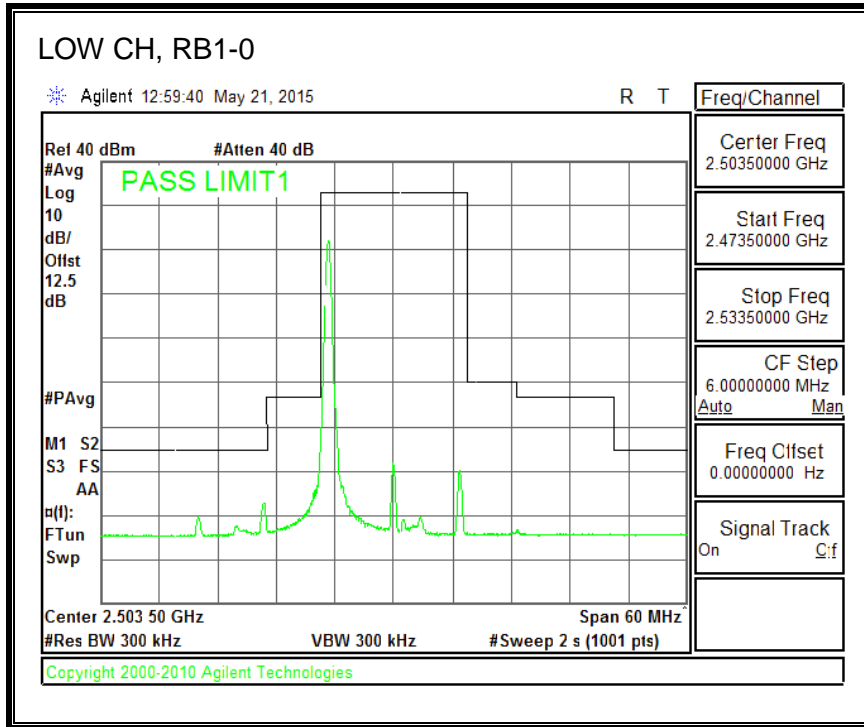


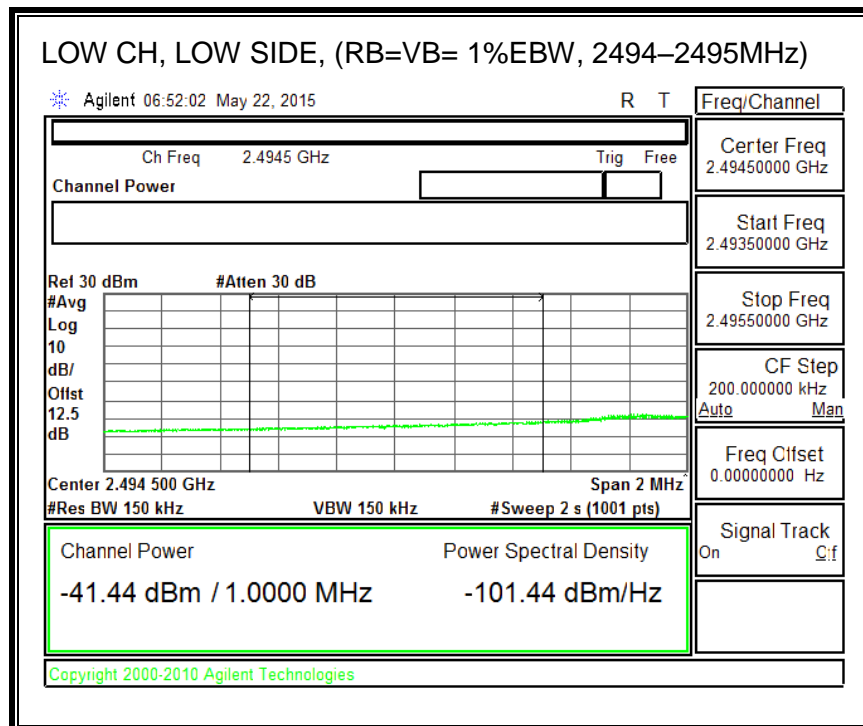
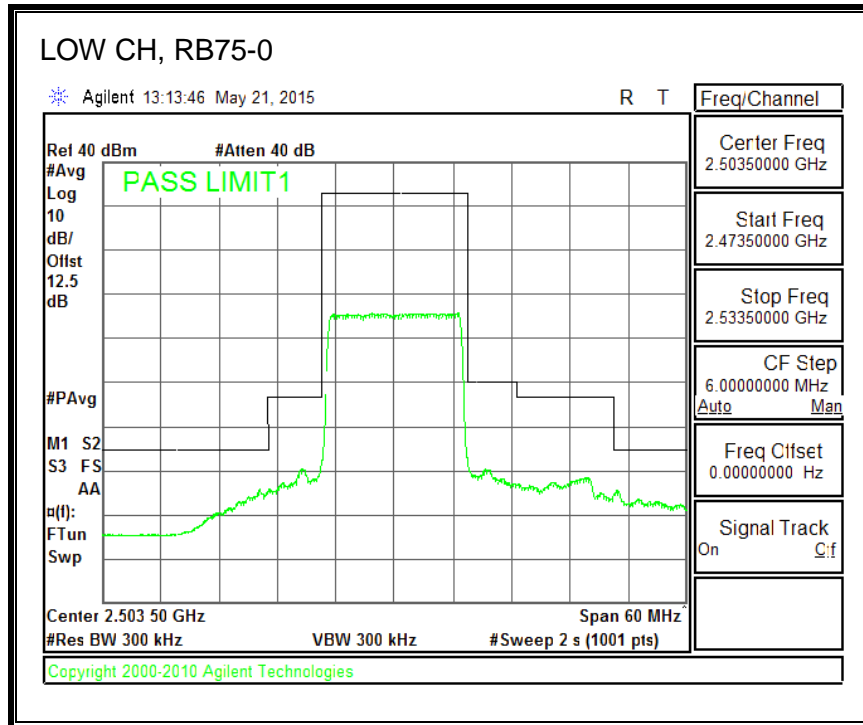


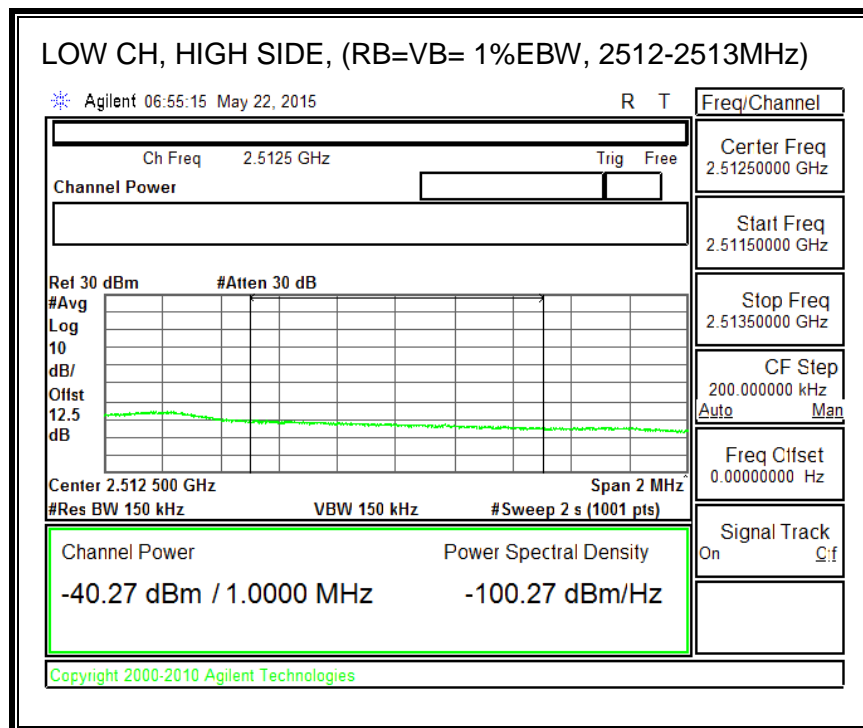
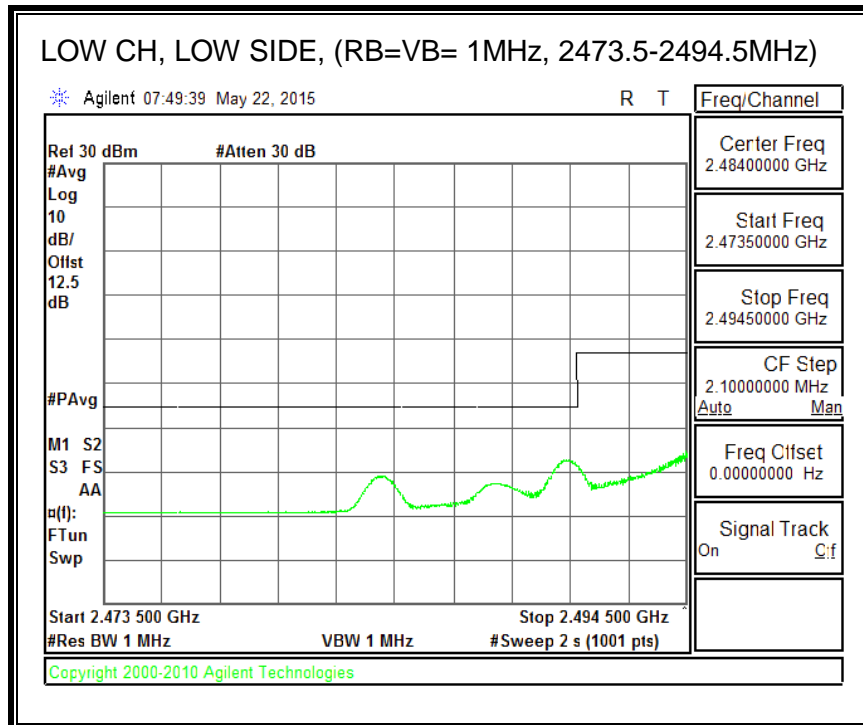


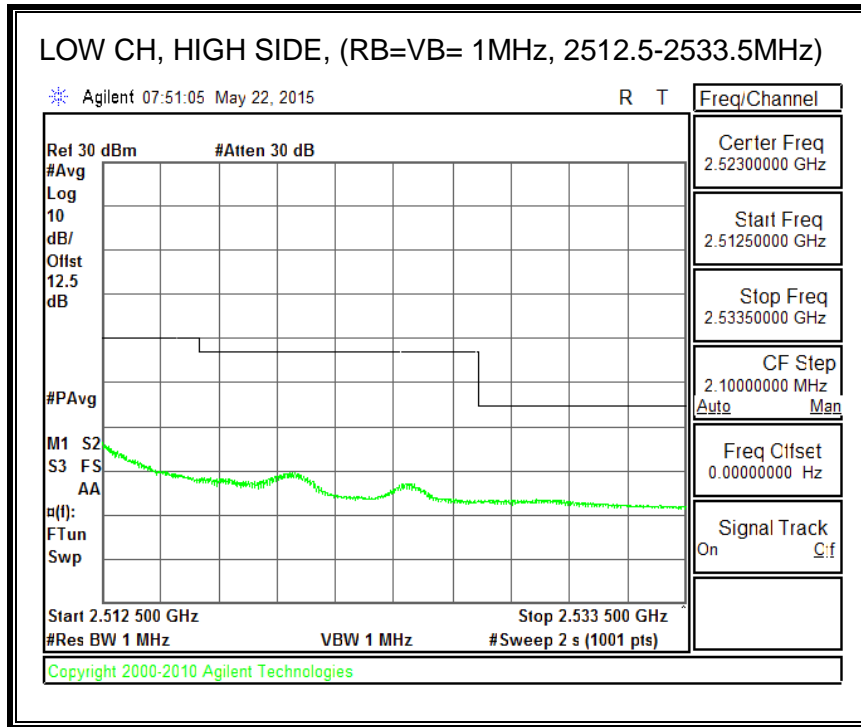


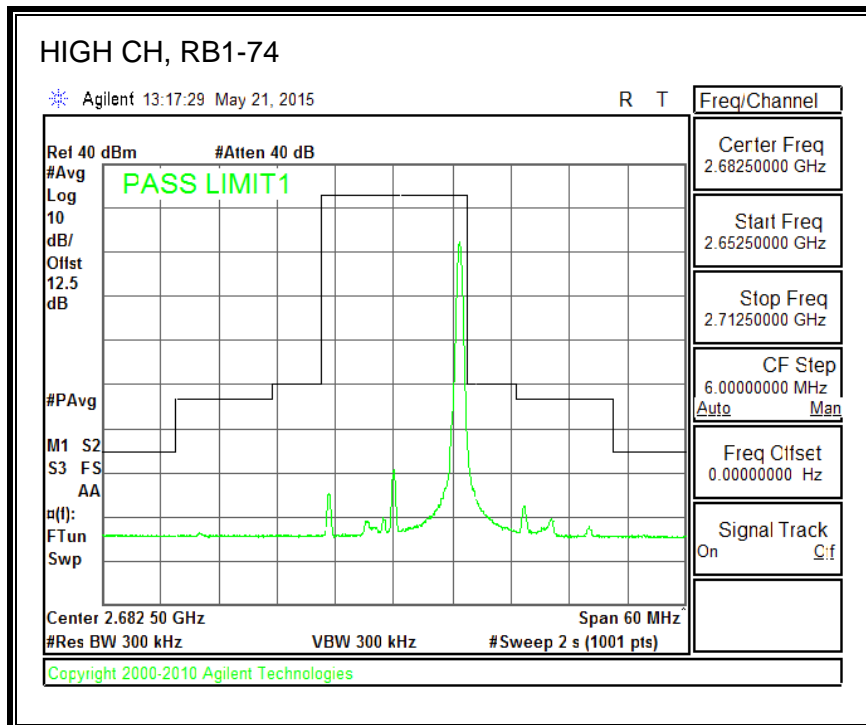
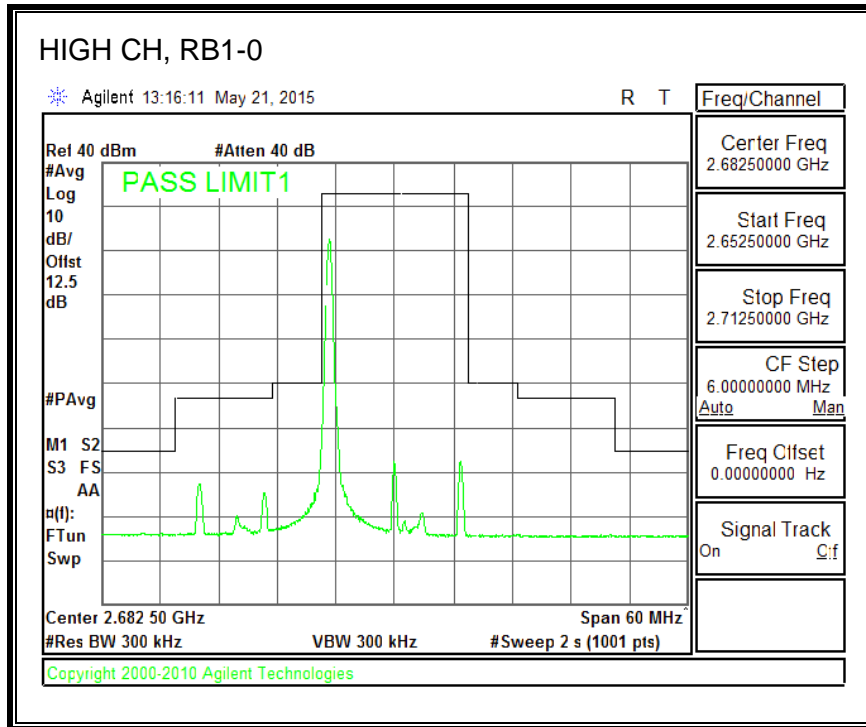
**QPSK, (15.0 MHz BAND WIDTH)**

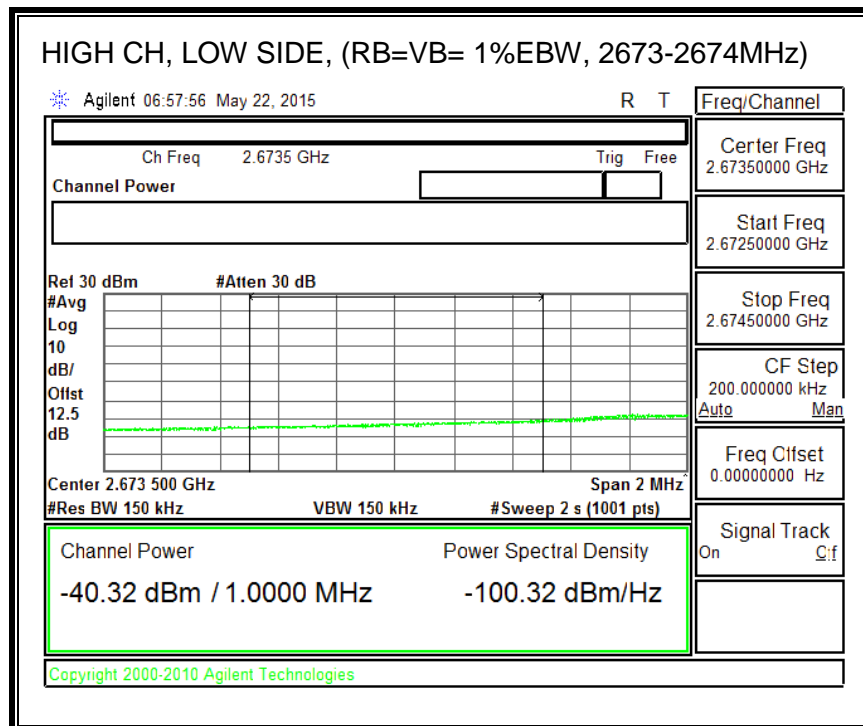
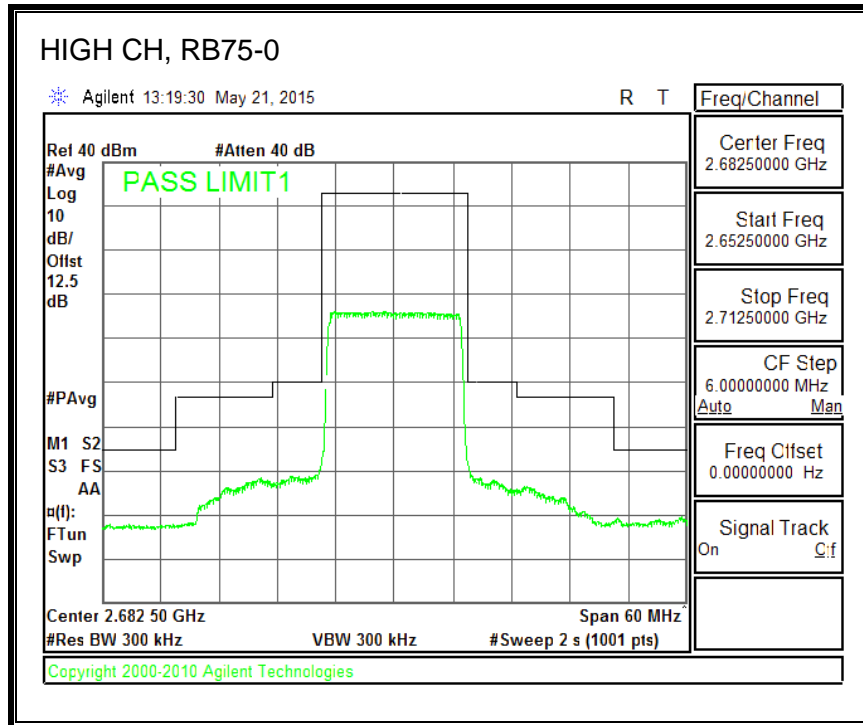


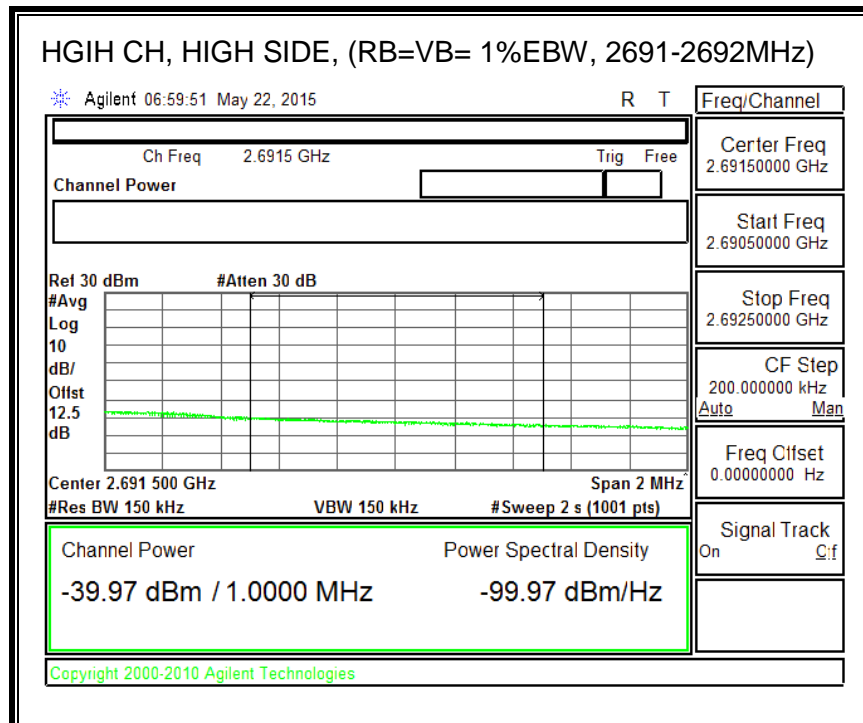
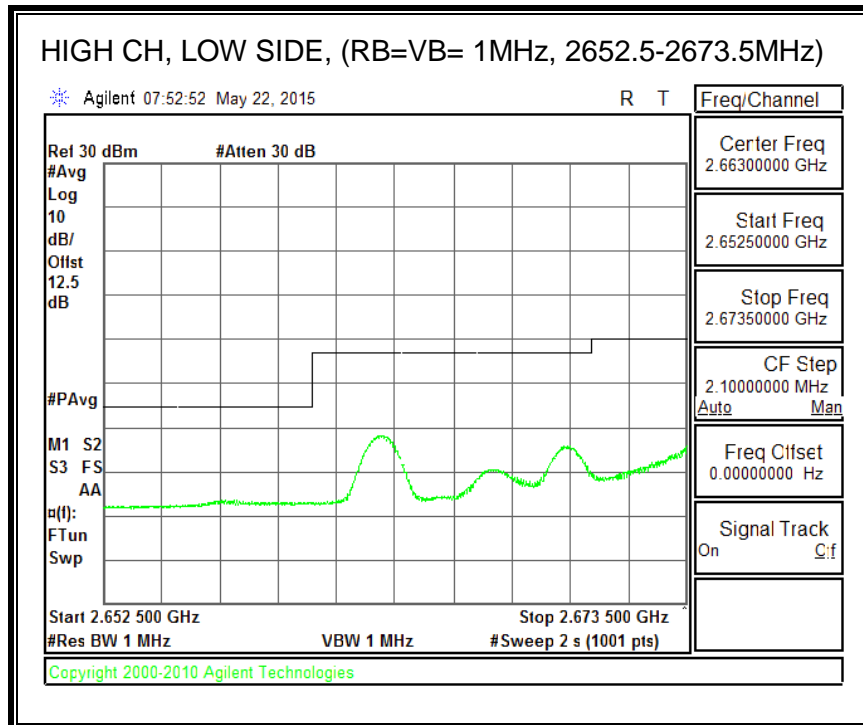


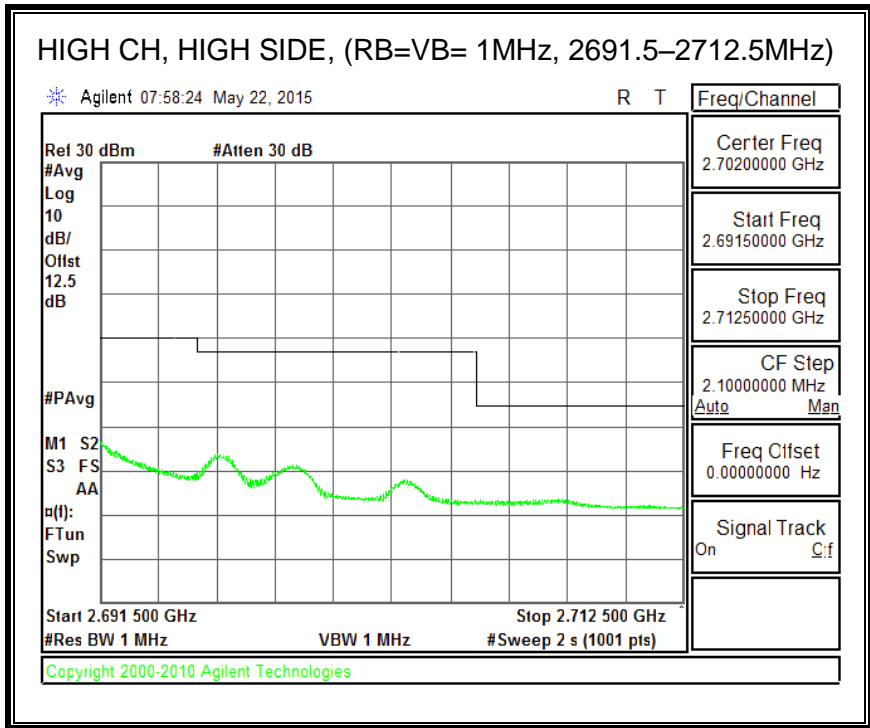






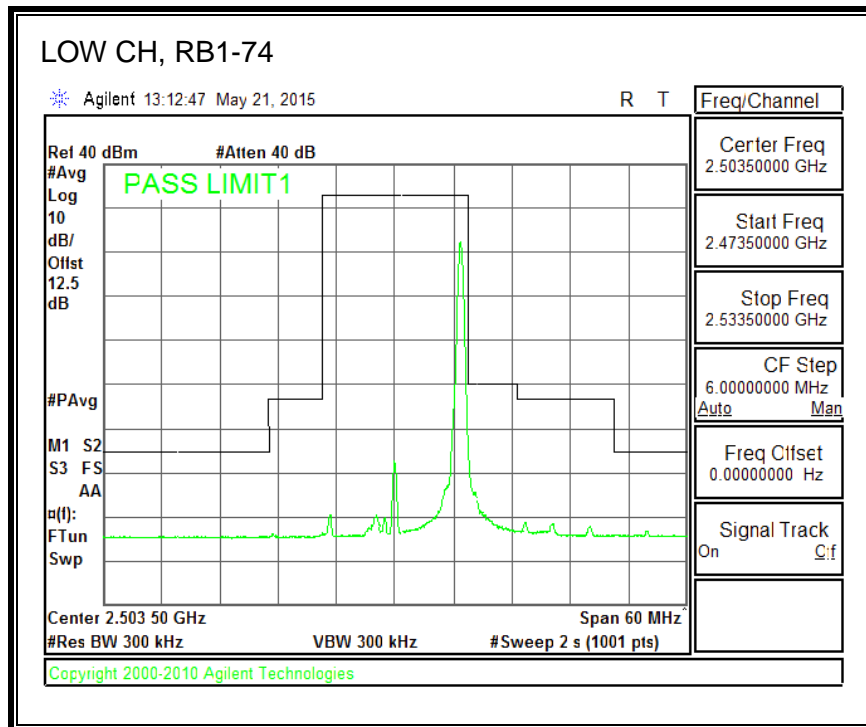
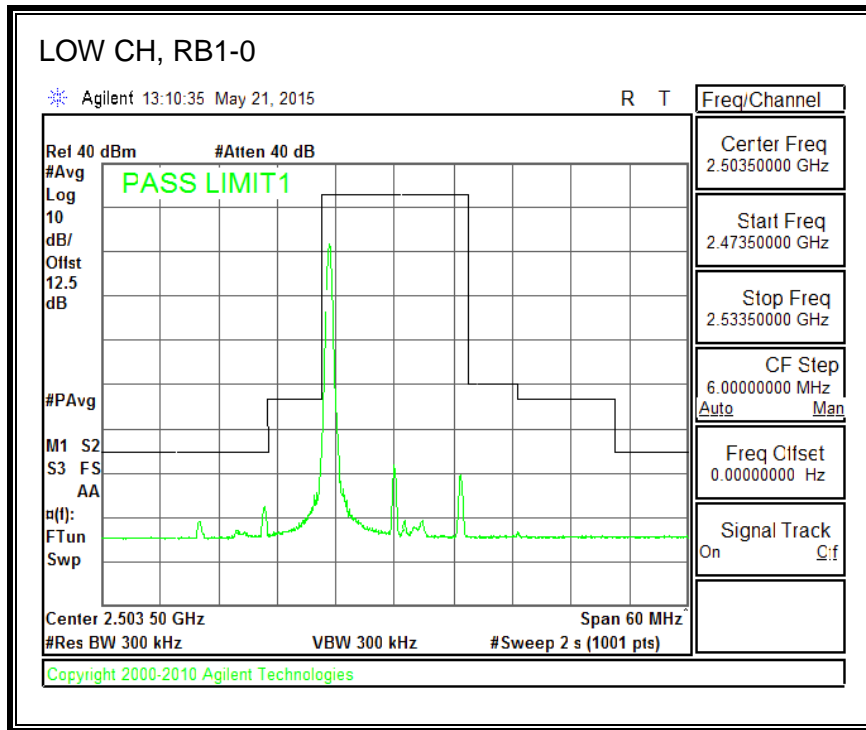


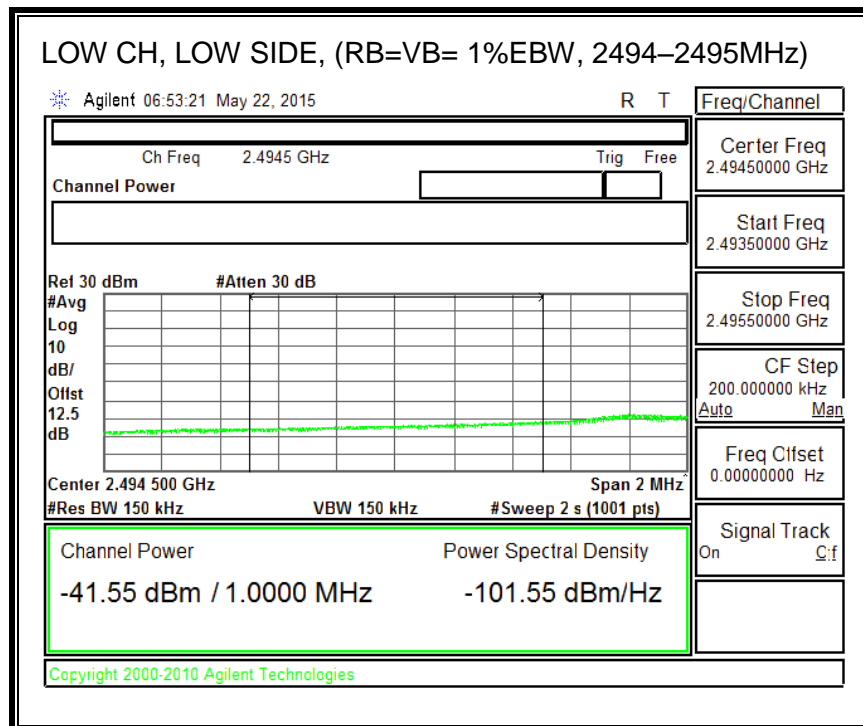
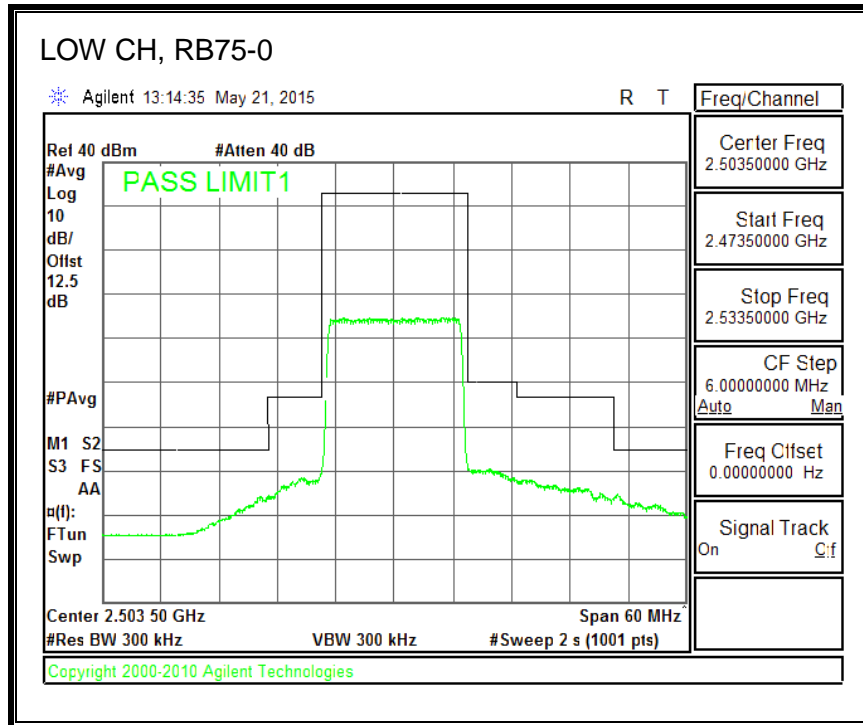


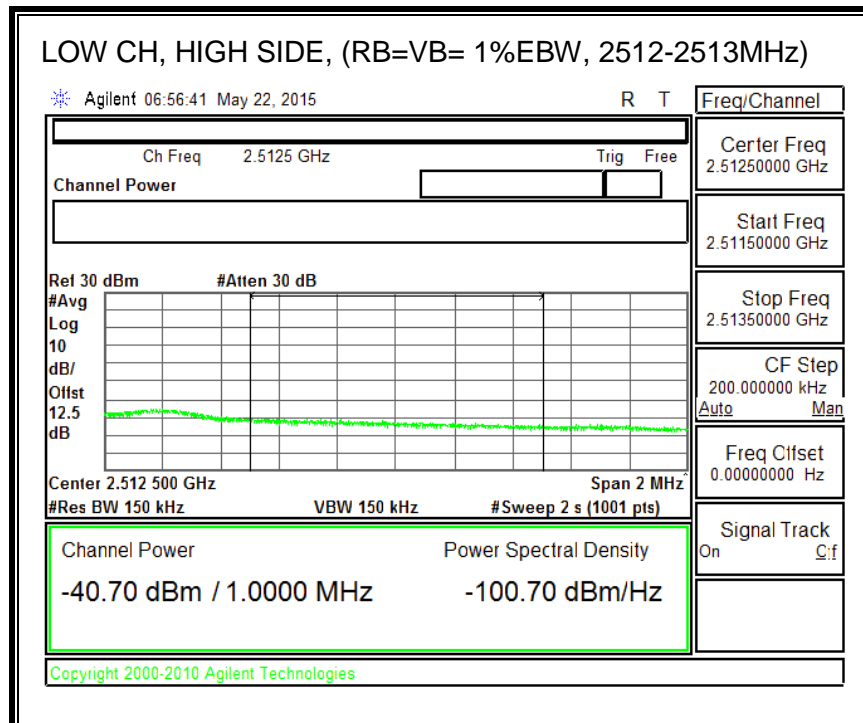
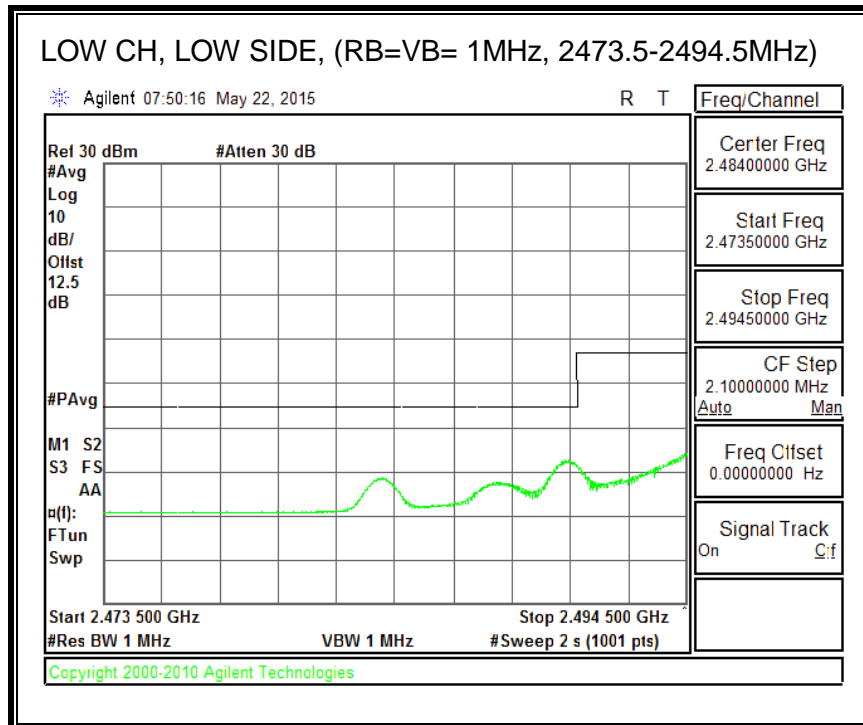


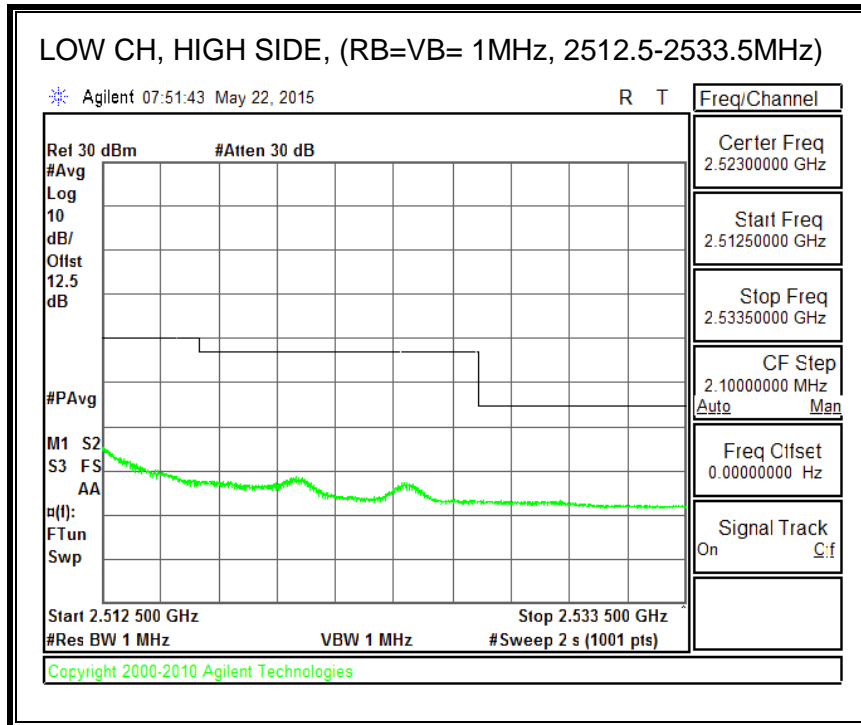


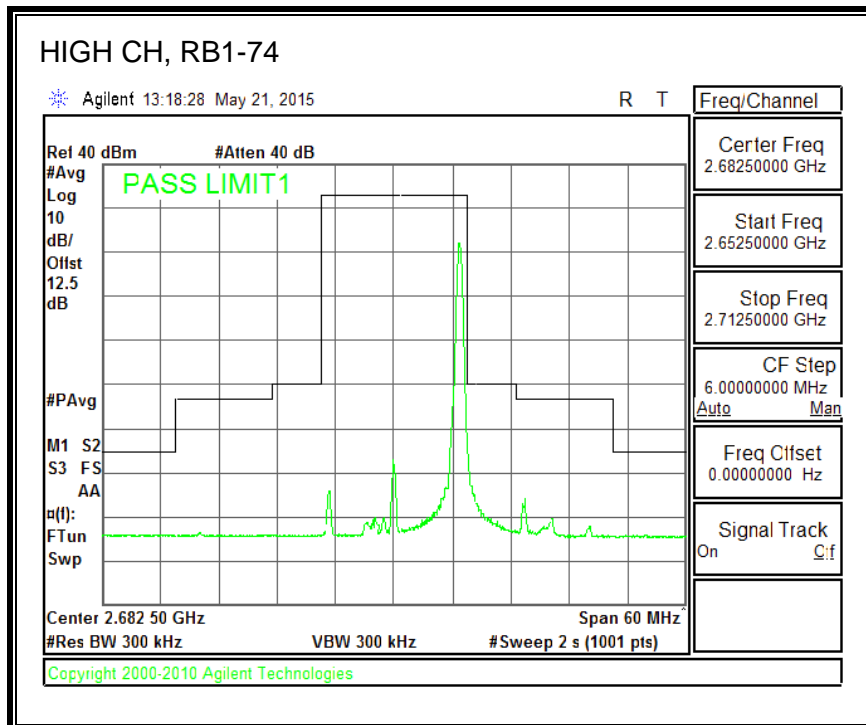
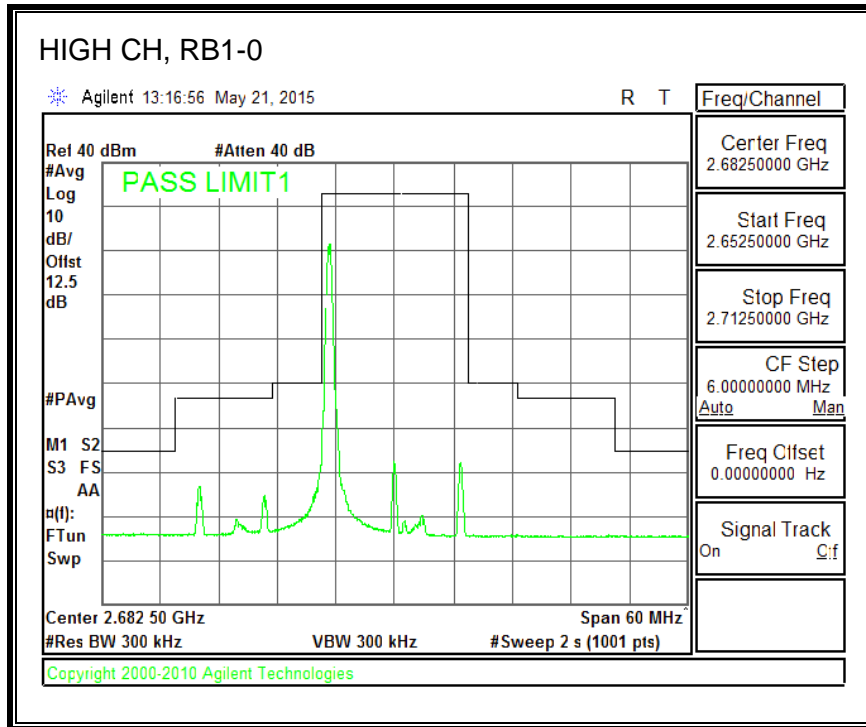
**16QAM, (15.0 MHz BAND WIDTH)**

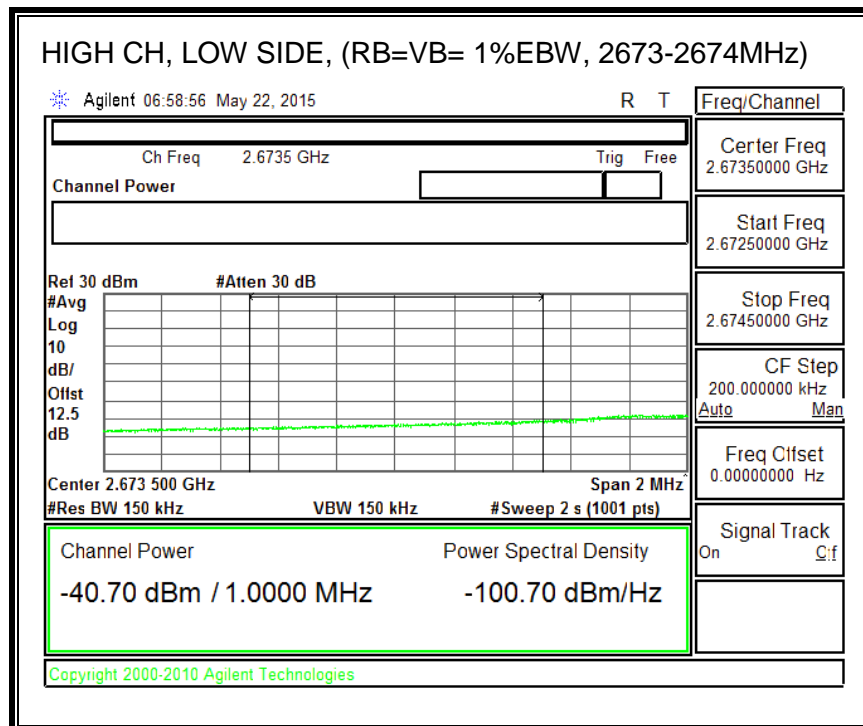
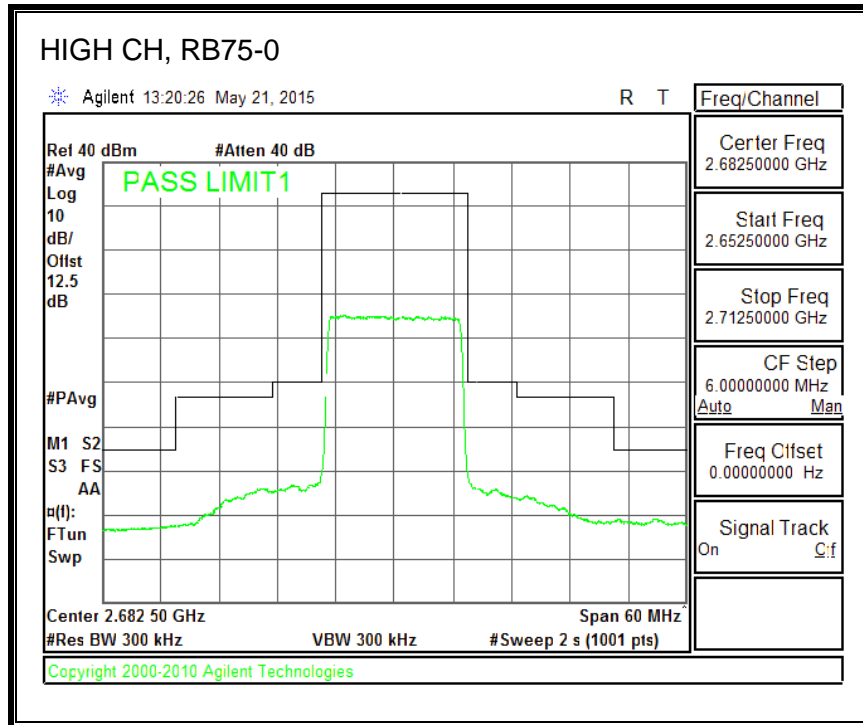


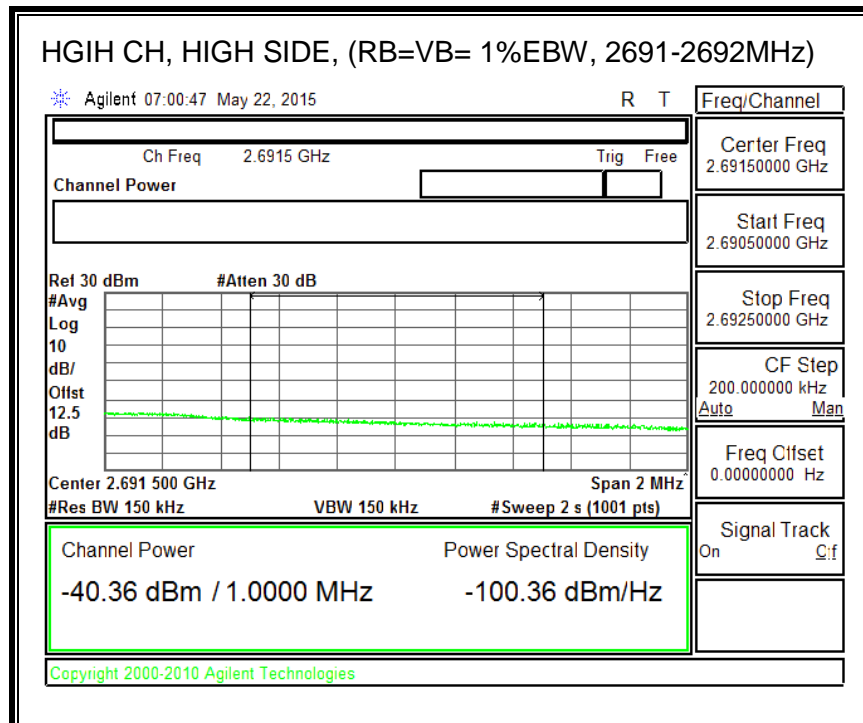
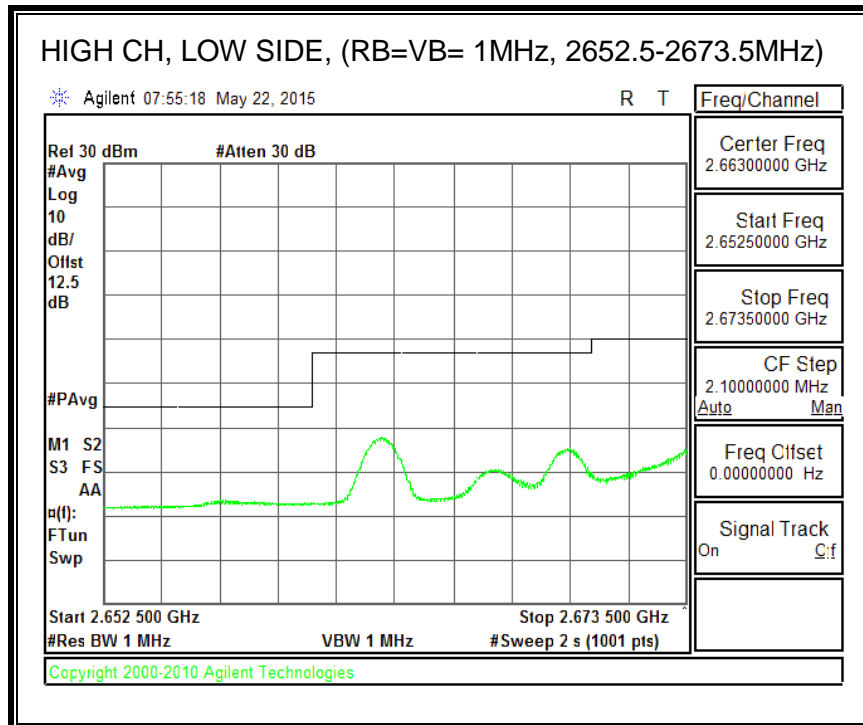


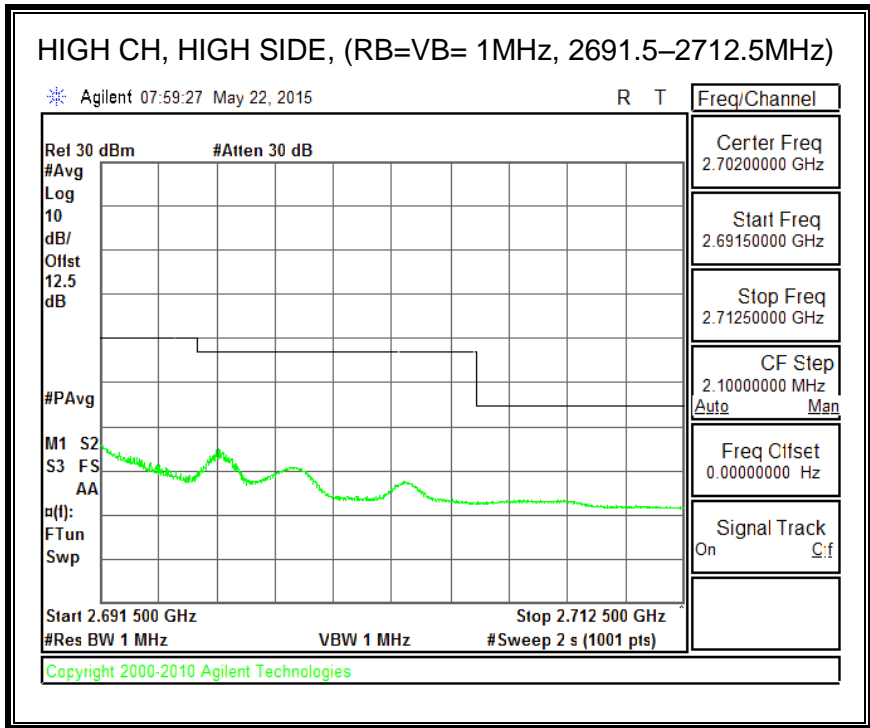






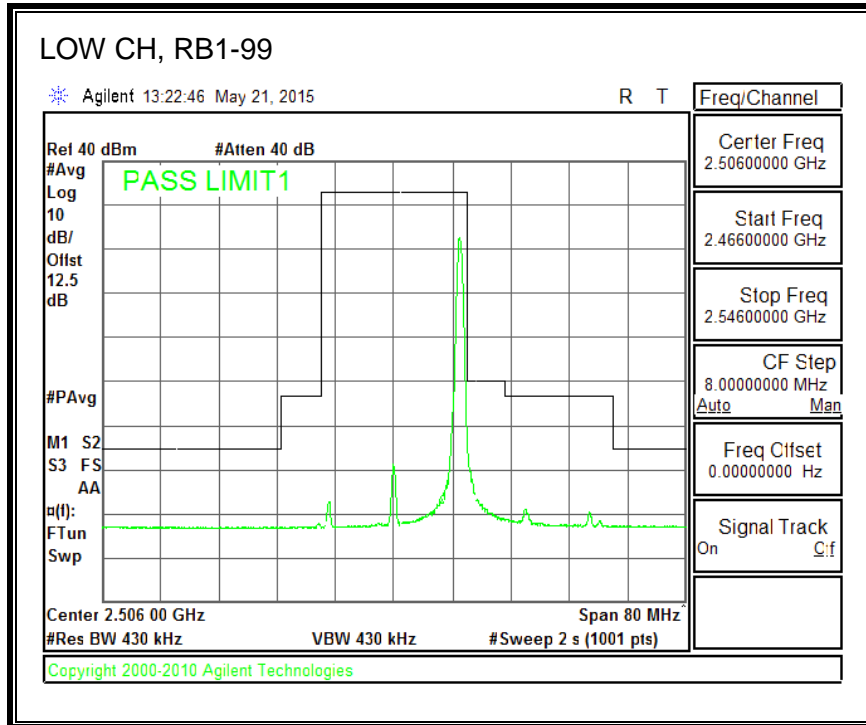
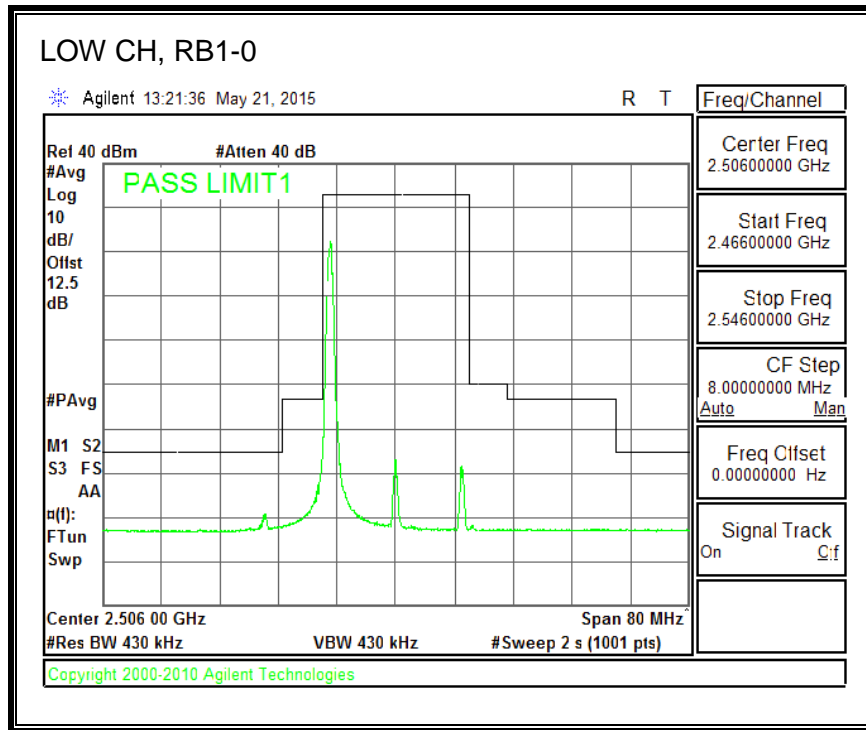


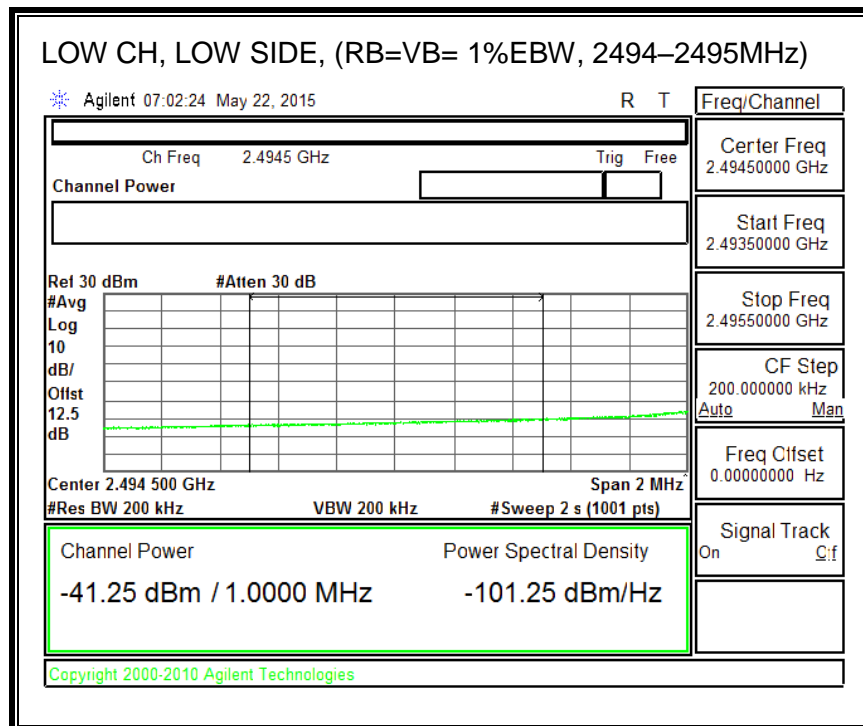
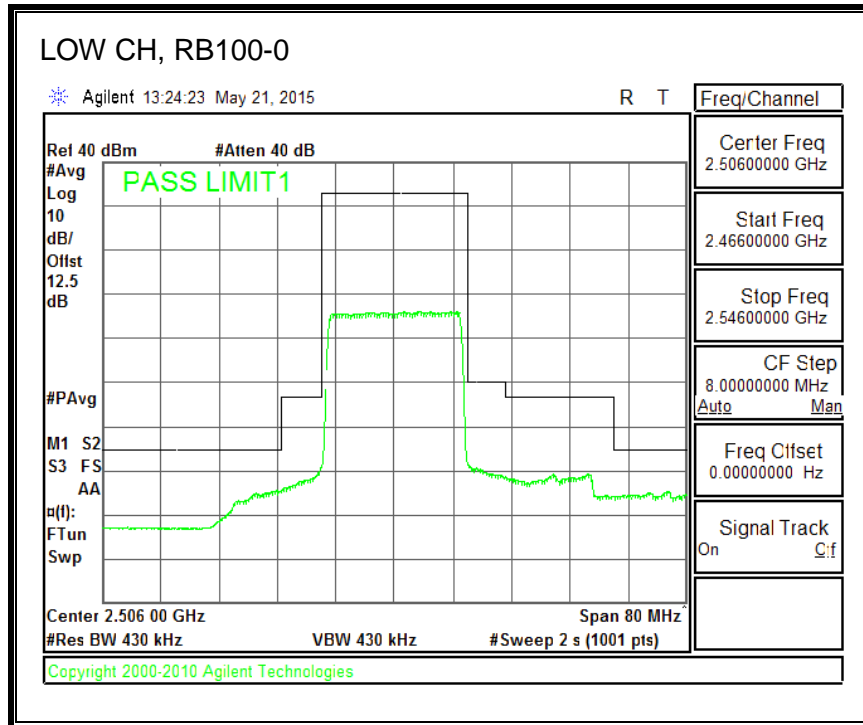


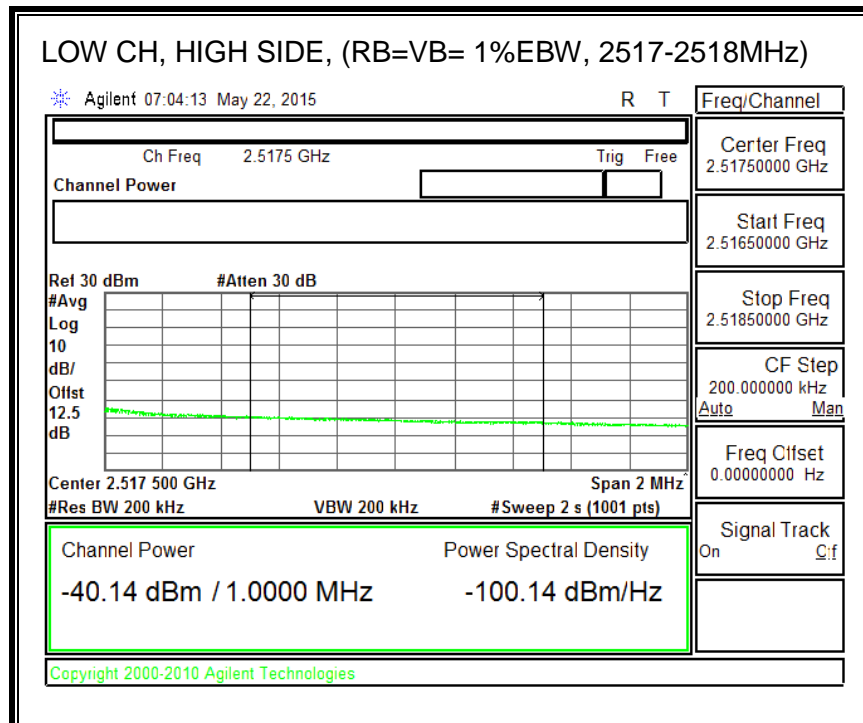
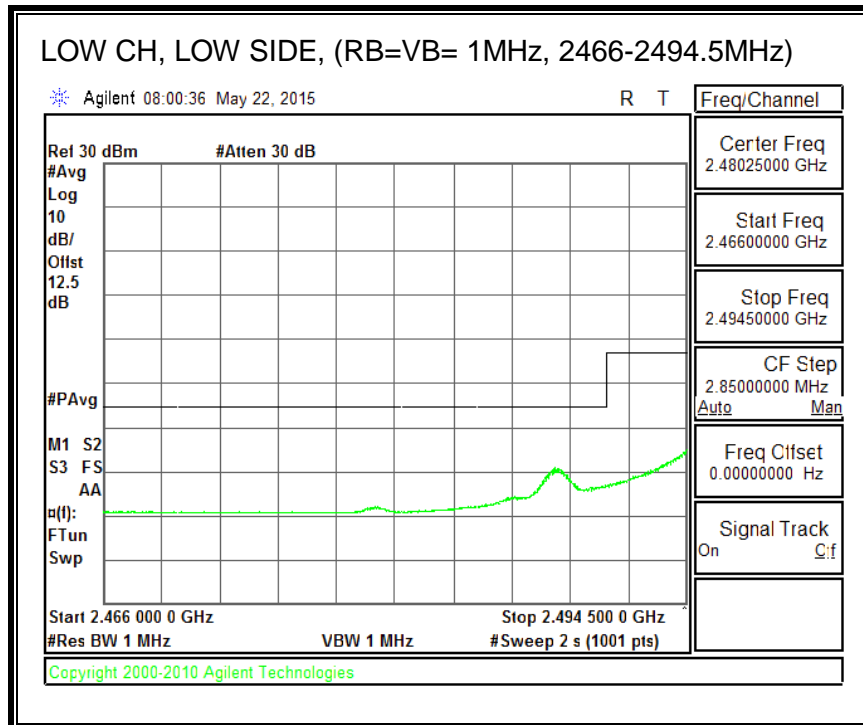


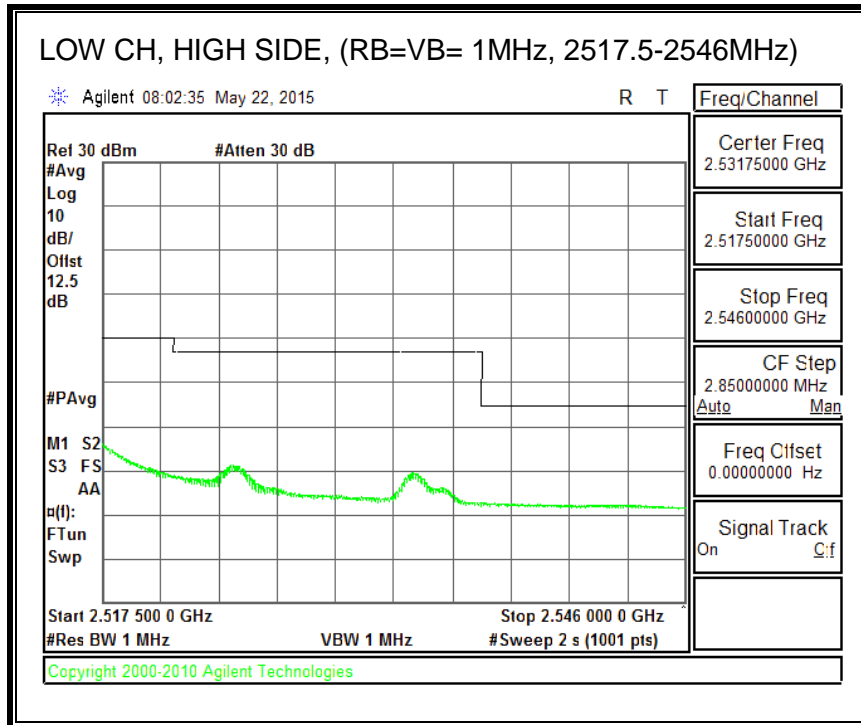


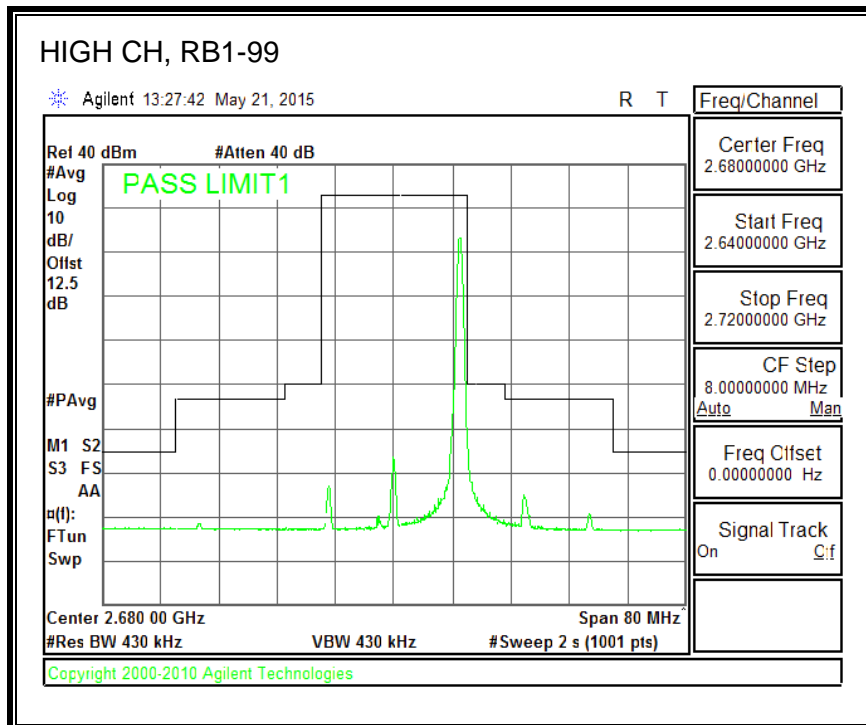
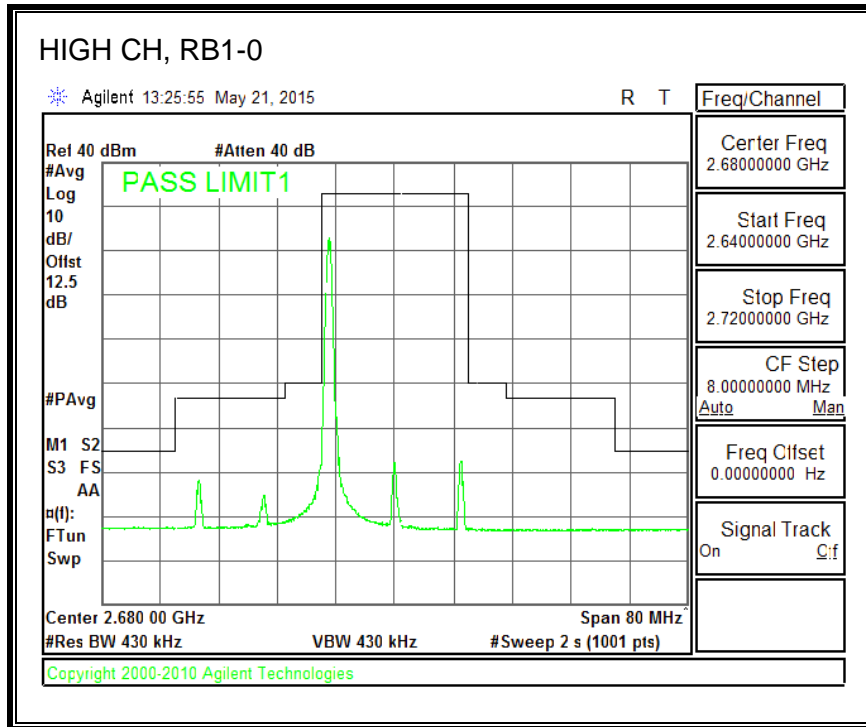
**QPSK, (20.0 MHz BAND WIDTH)**

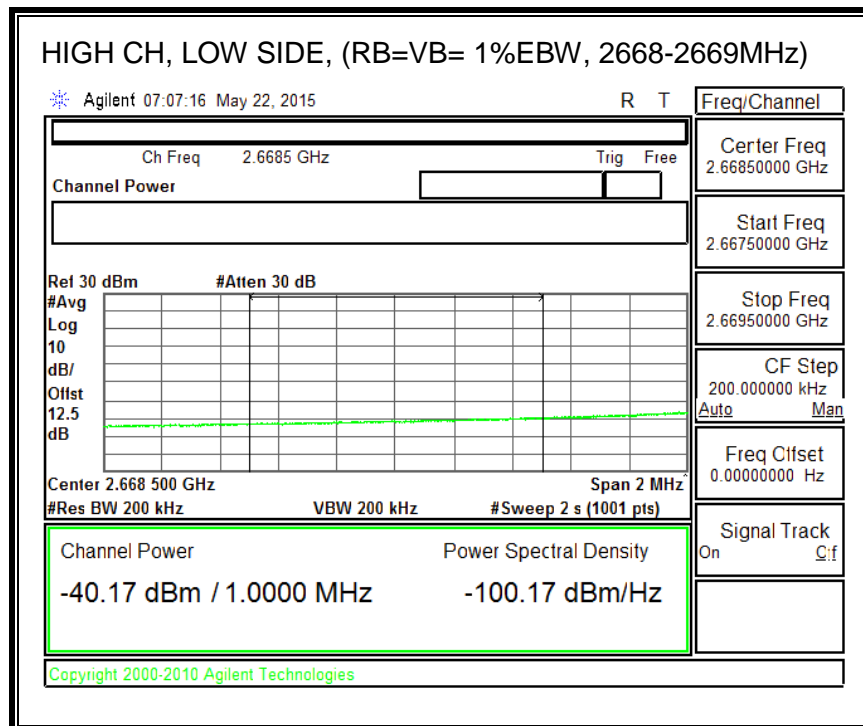
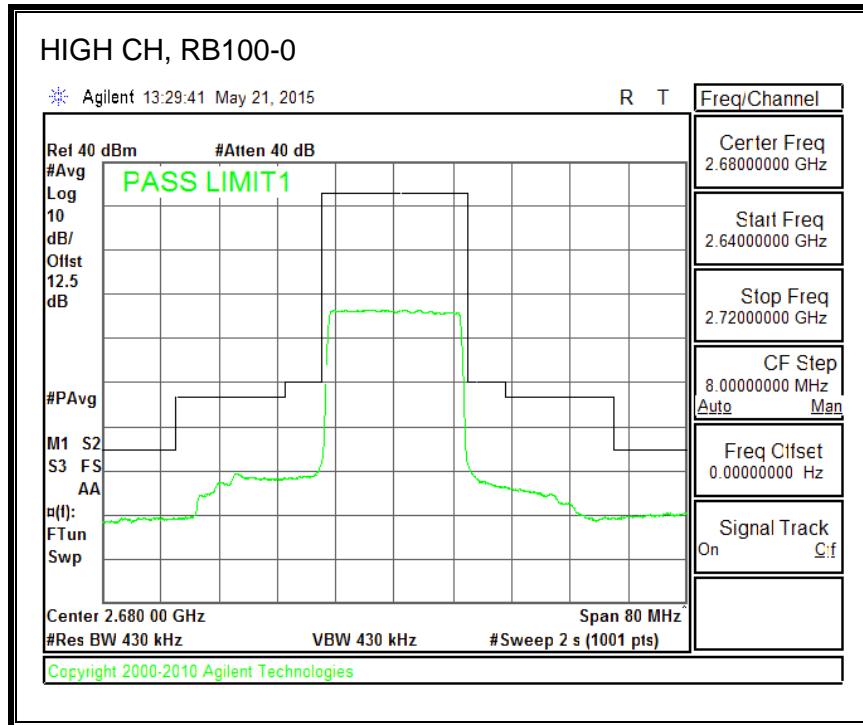


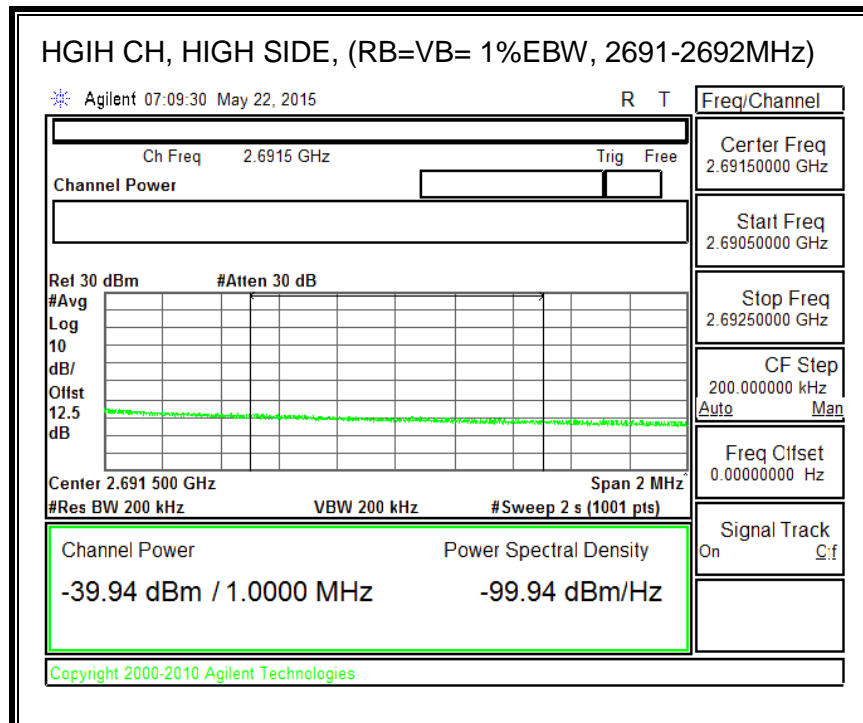
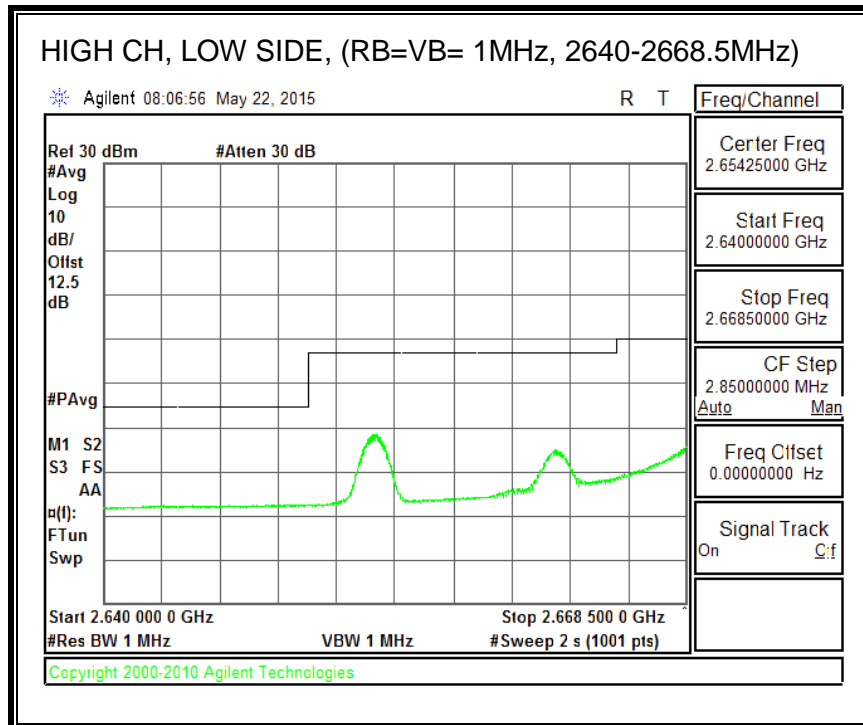


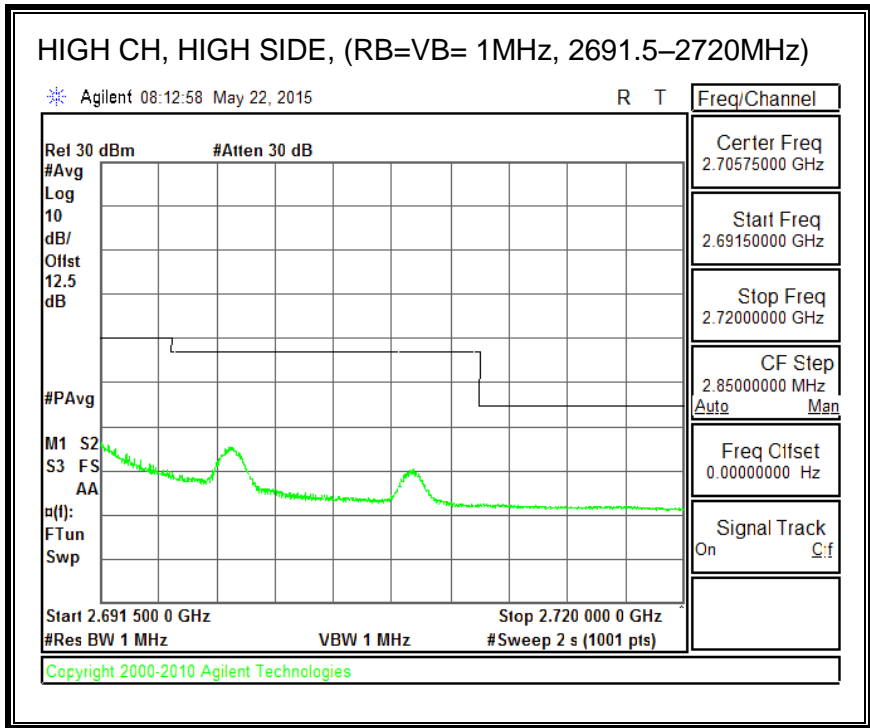






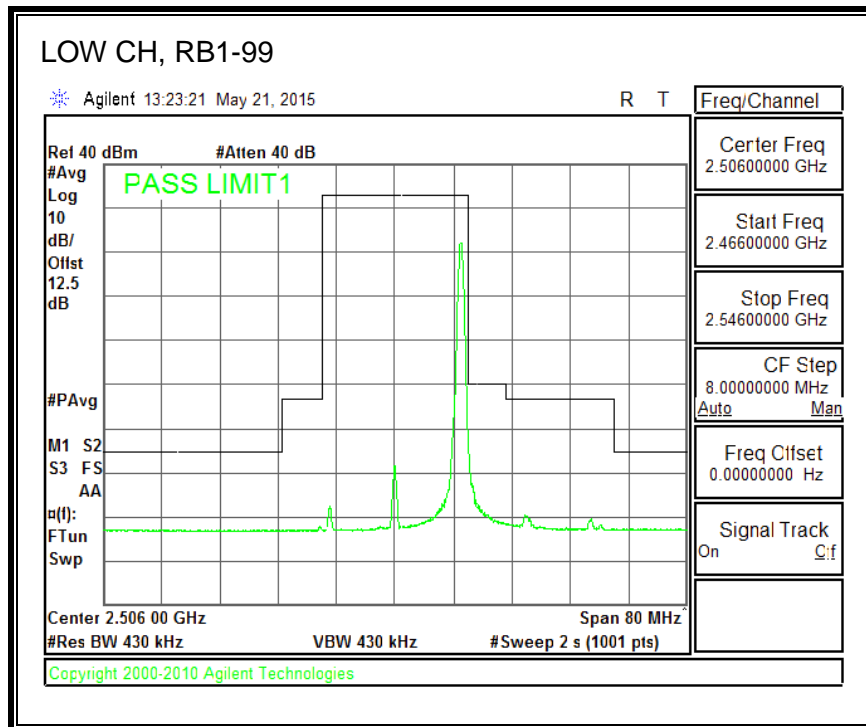
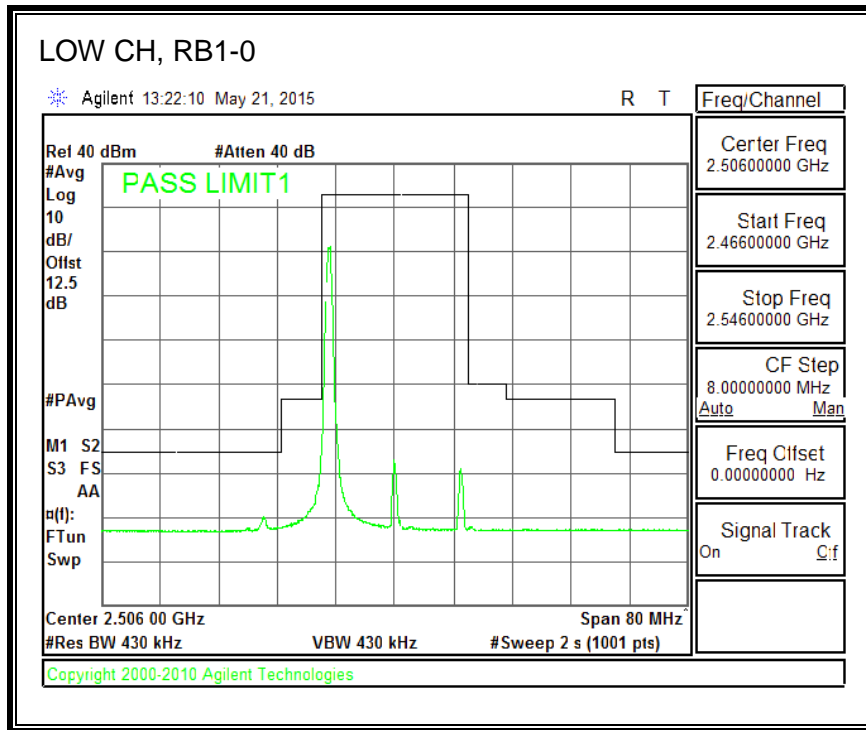


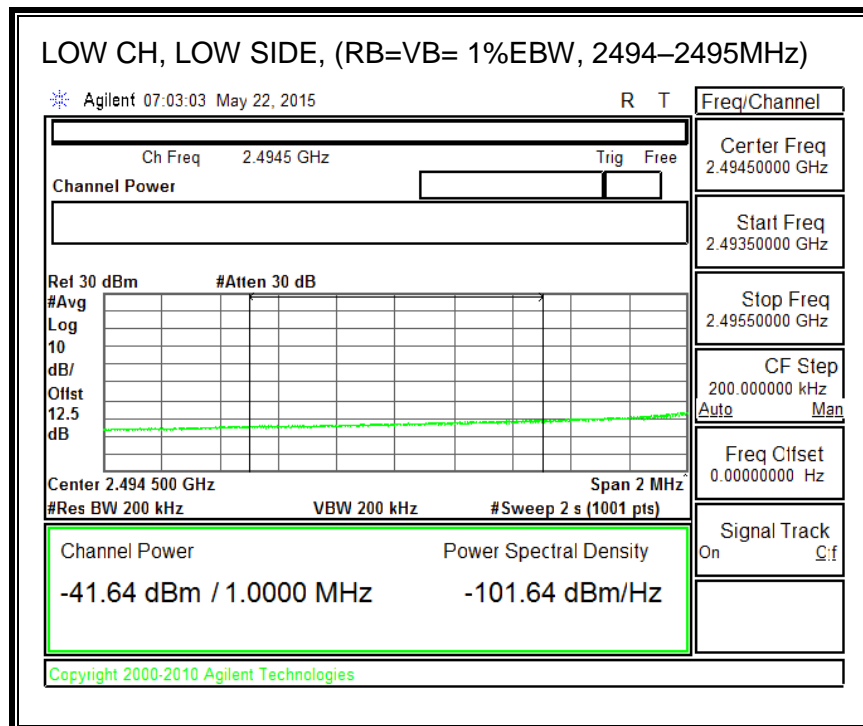
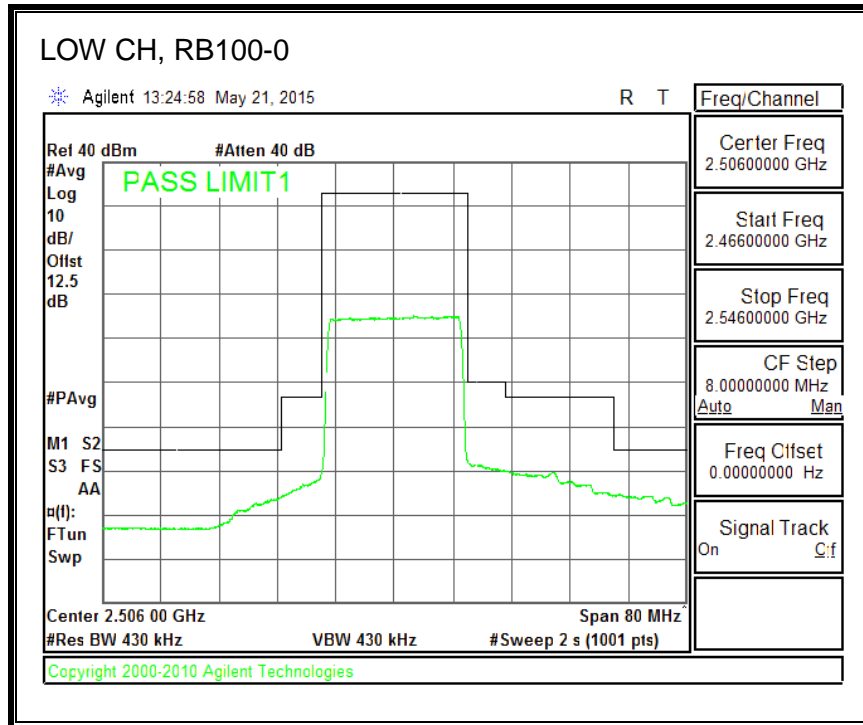


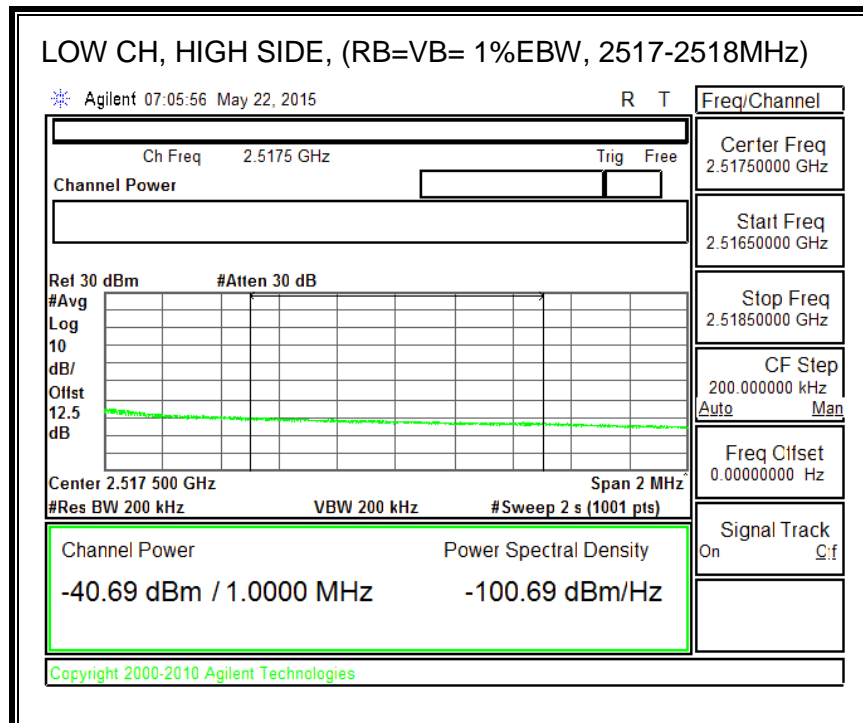
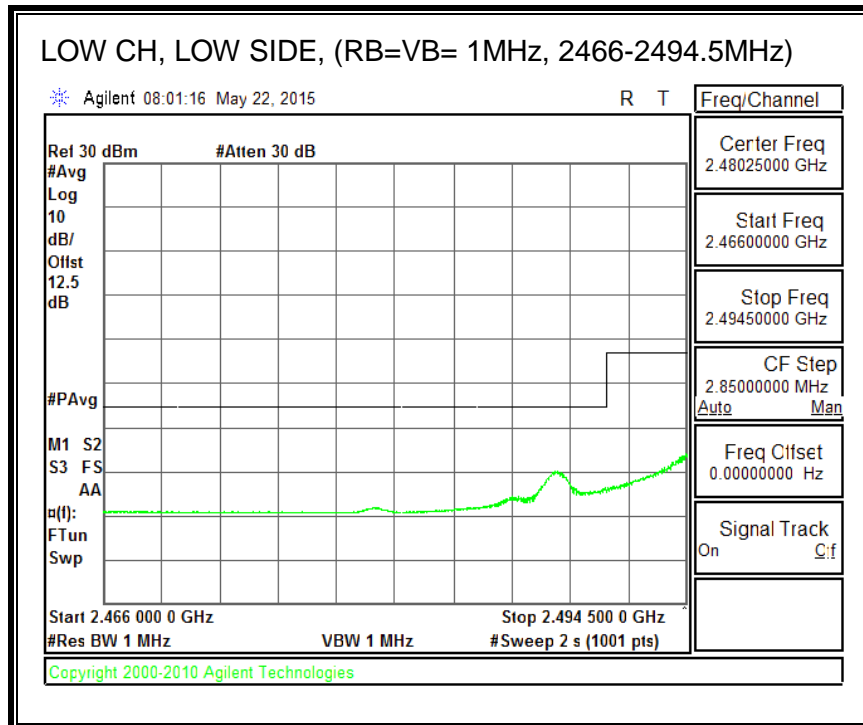


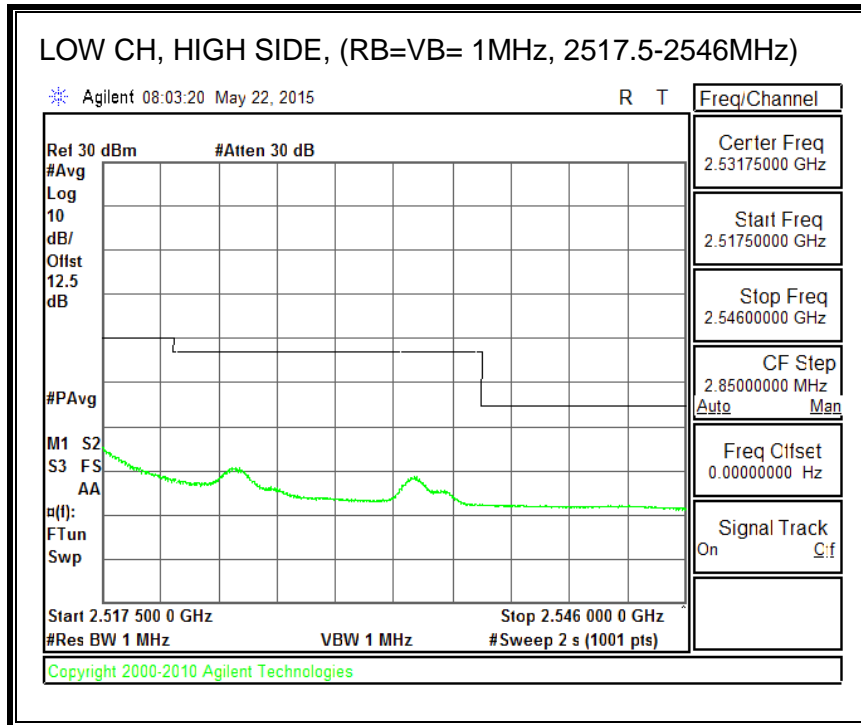


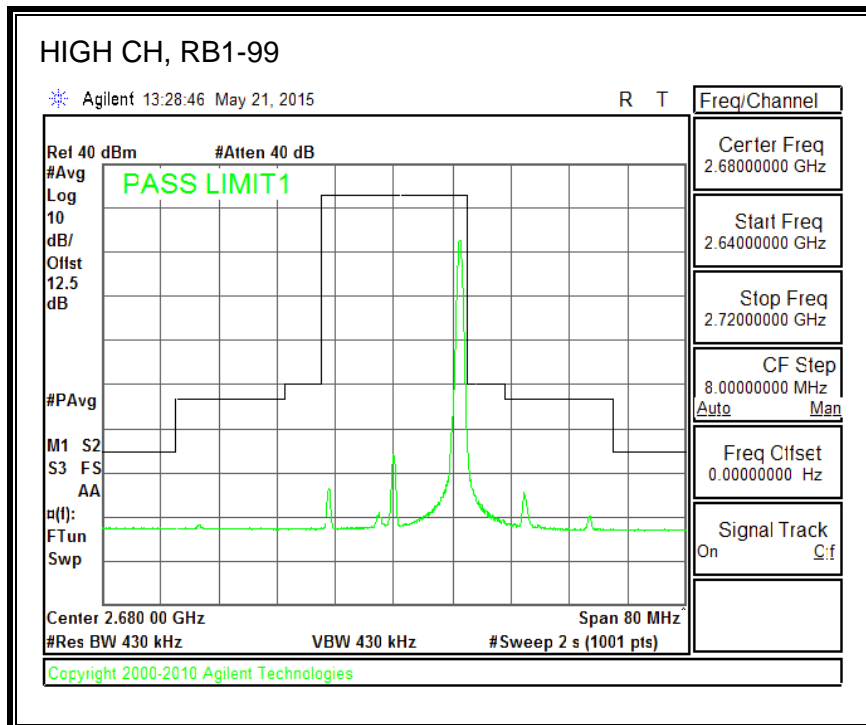
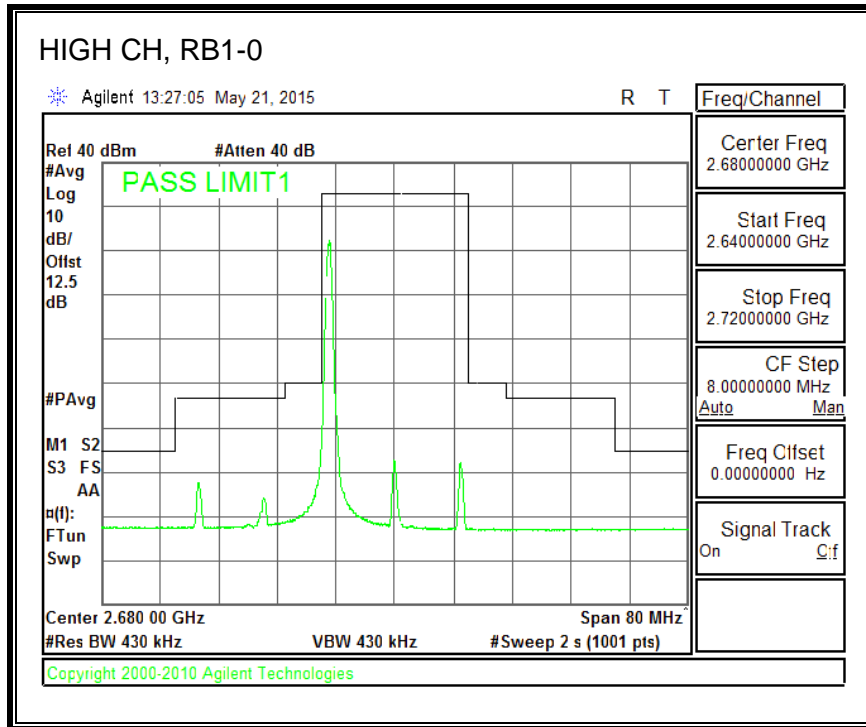
**16QAM, (20.0 MHz BAND WIDTH)**

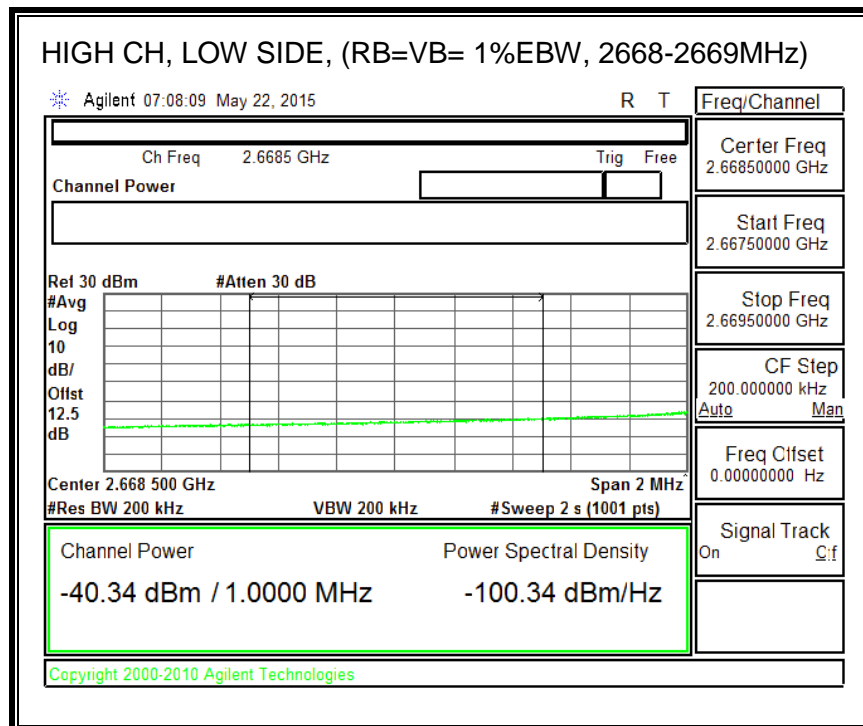
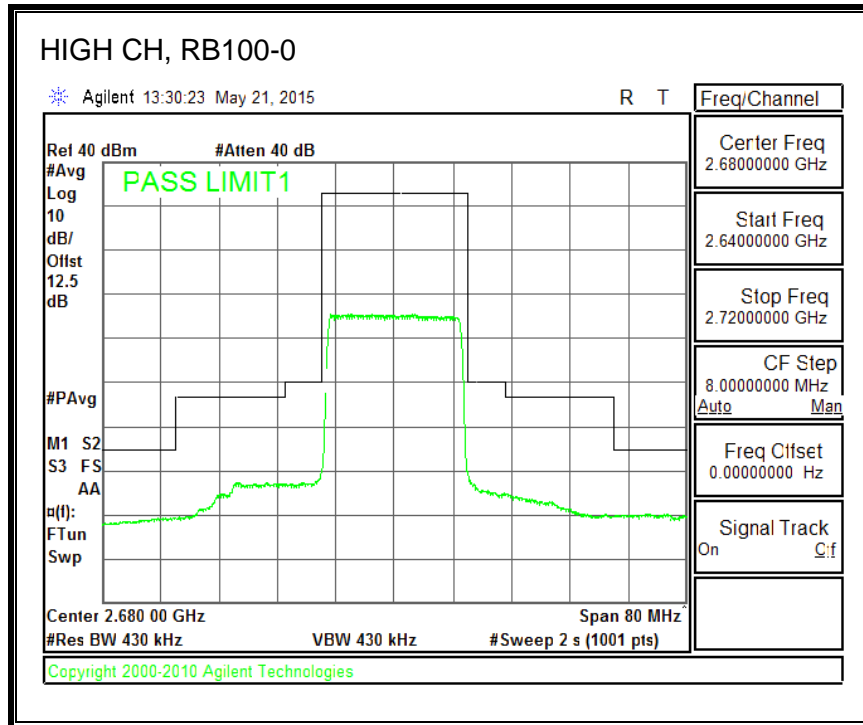


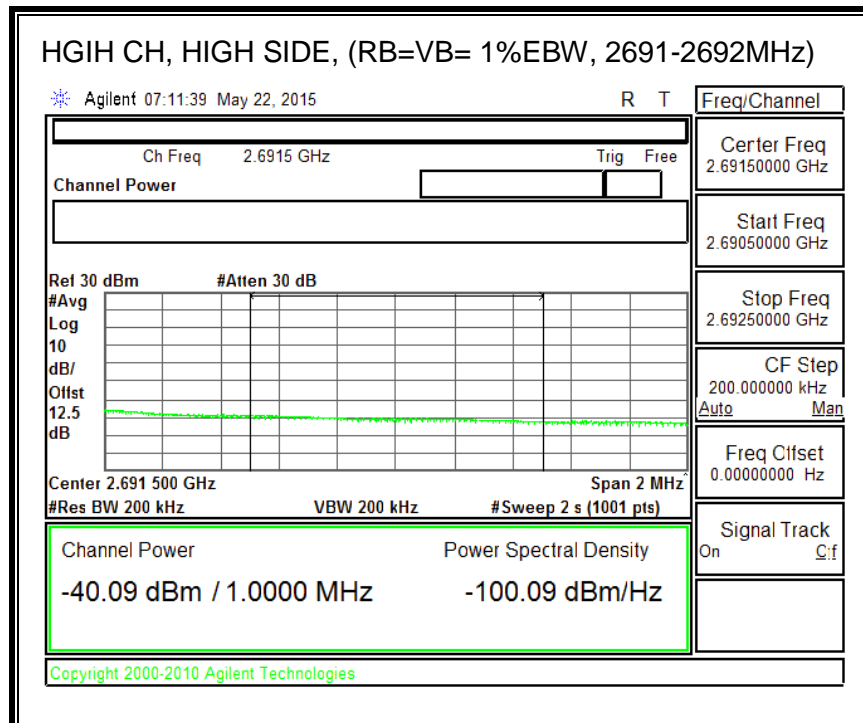
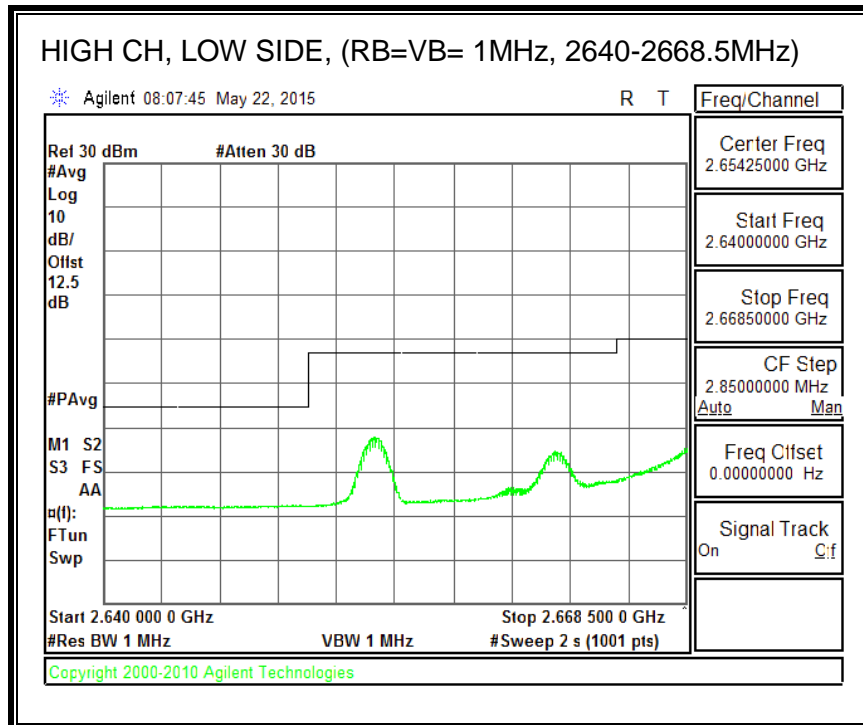


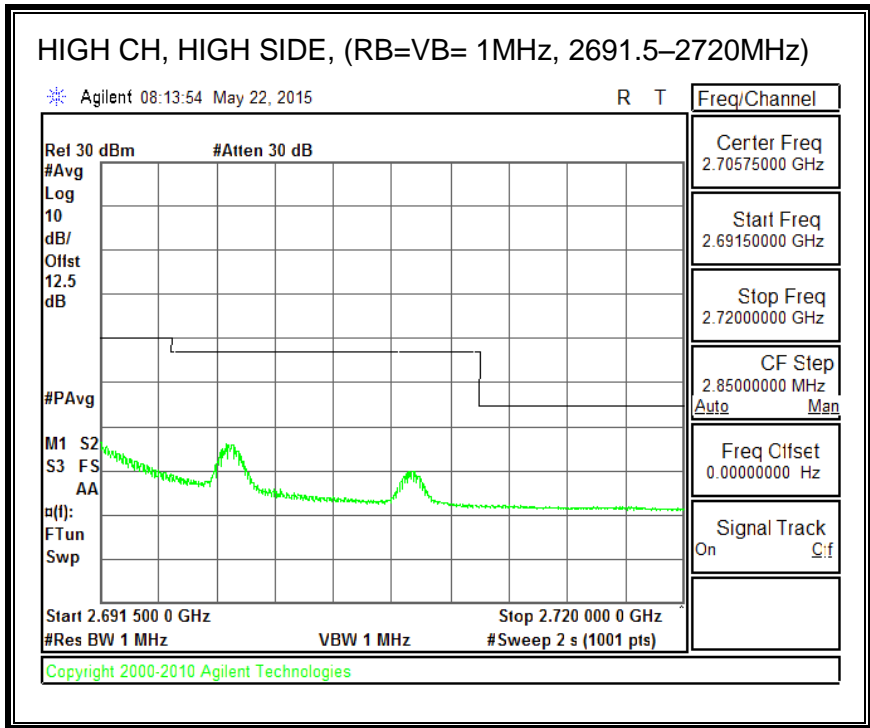














## **8.5. OUT OF BAND EMISSIONS (MODEL: A1634)**

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

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

### **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.

### **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:

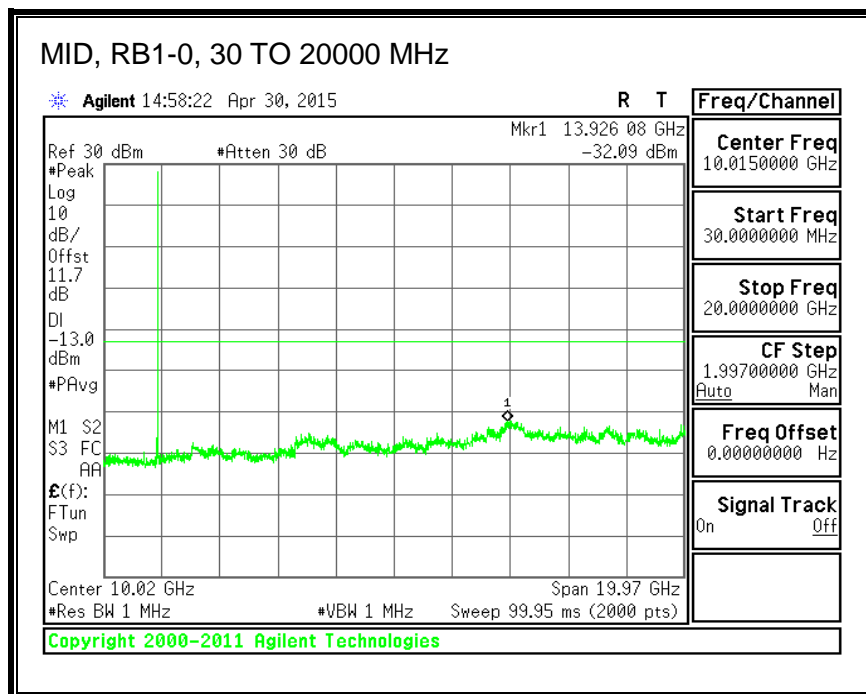
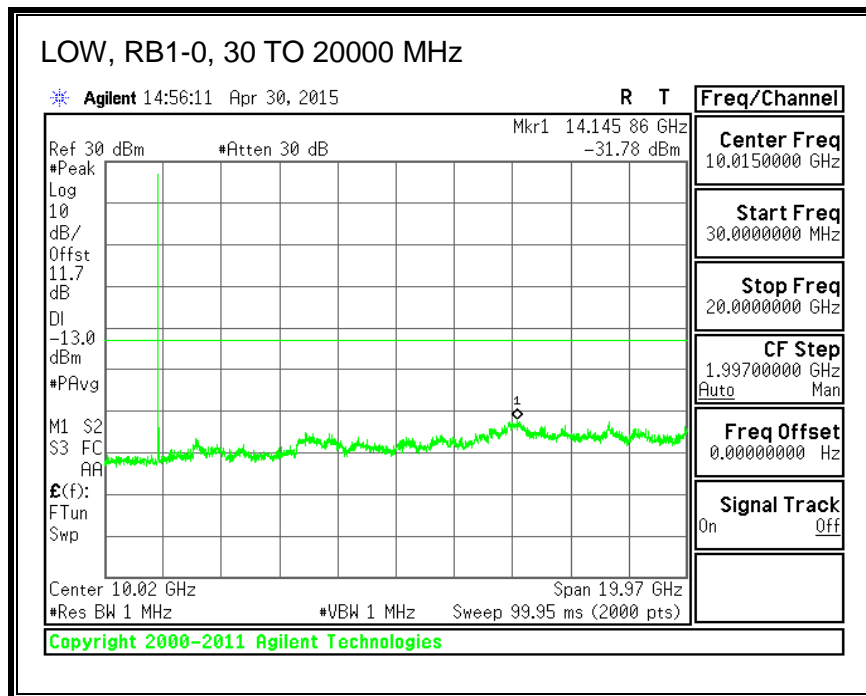
- Set display line at -13 dBm
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

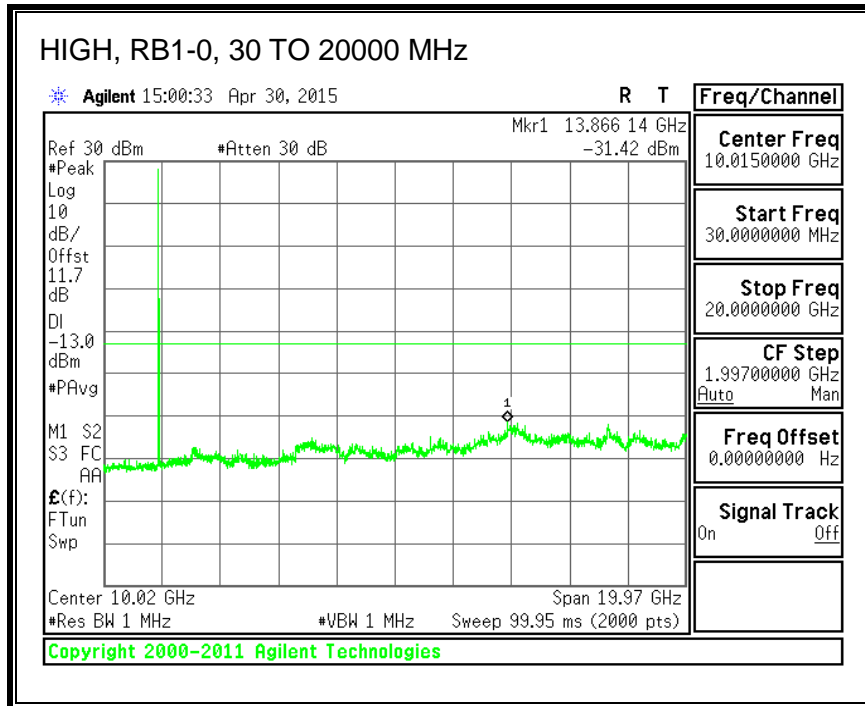
### **MODES TESTED**

- 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 30
- LTE Band 41

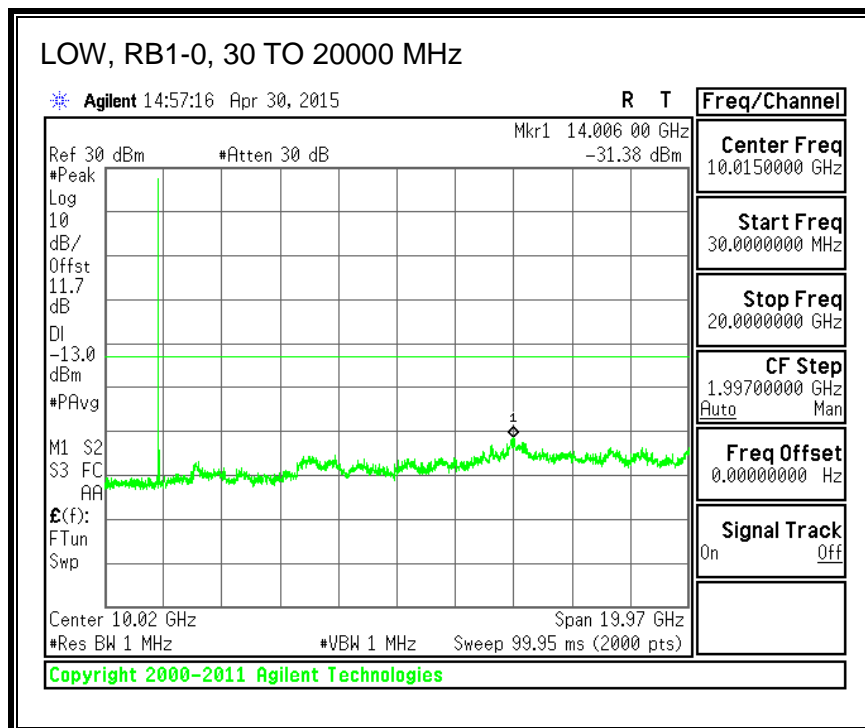
### 8.5.1. LTE BAND 2

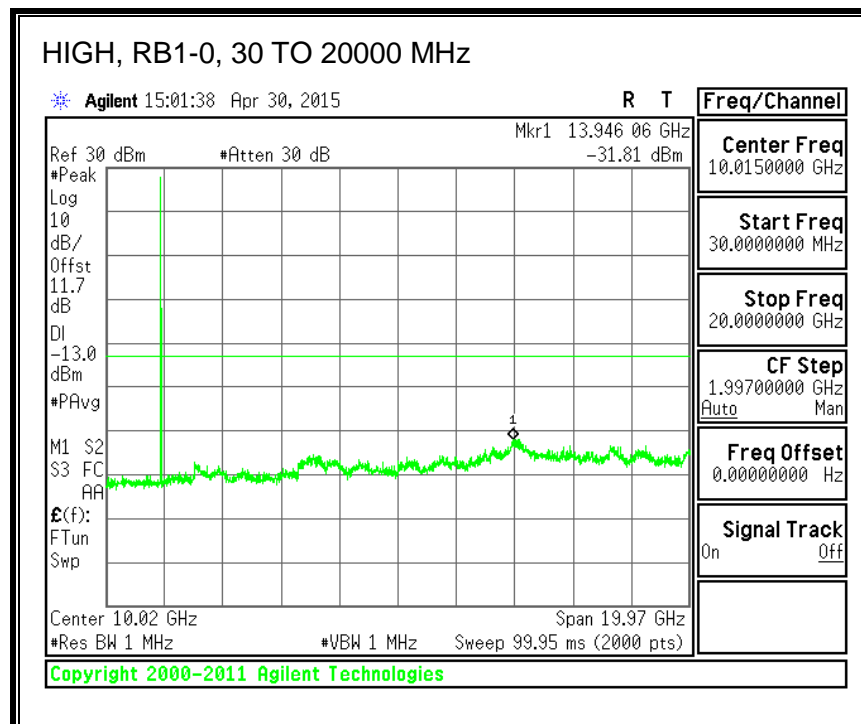
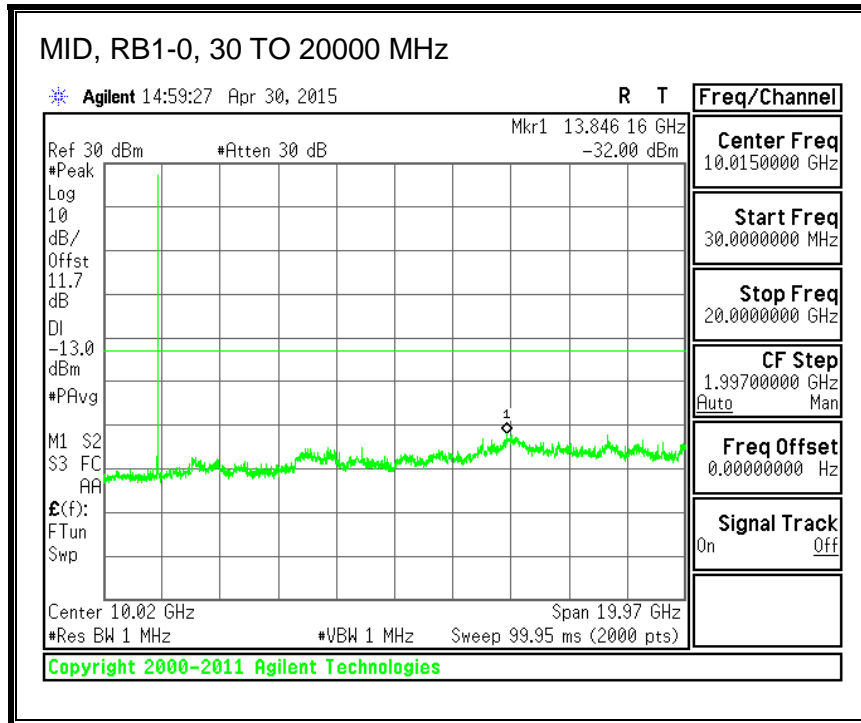
#### QPSK, (1.4 MHz BAND WIDTH)



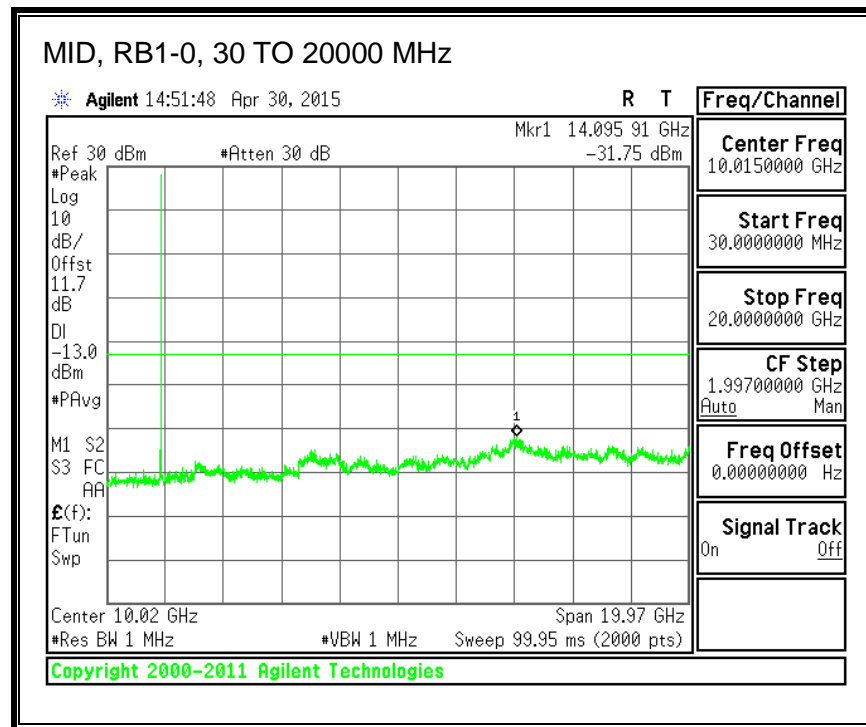
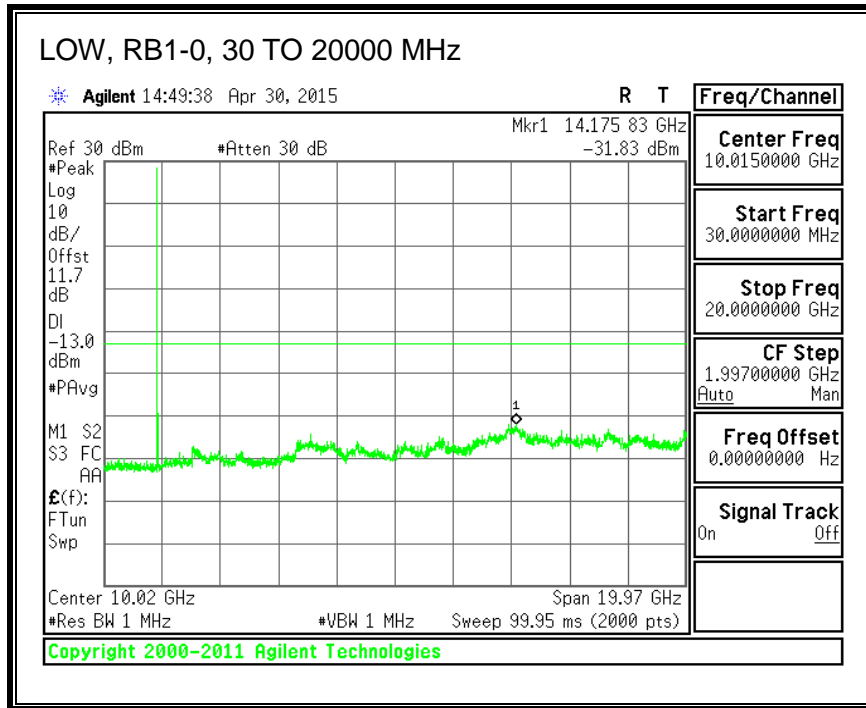


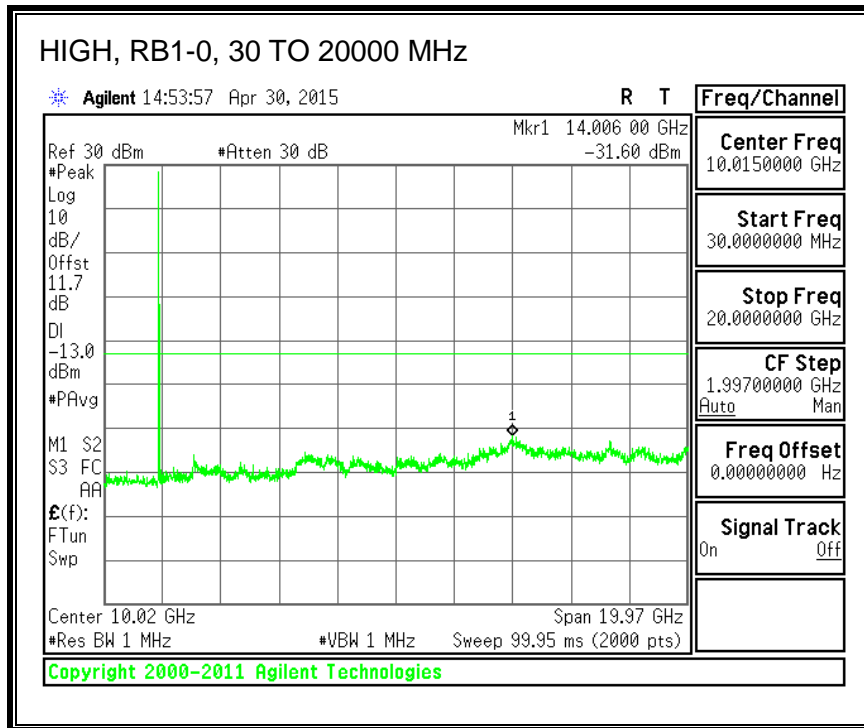
**16QAM, (1.4 MHz BAND WIDTH)**



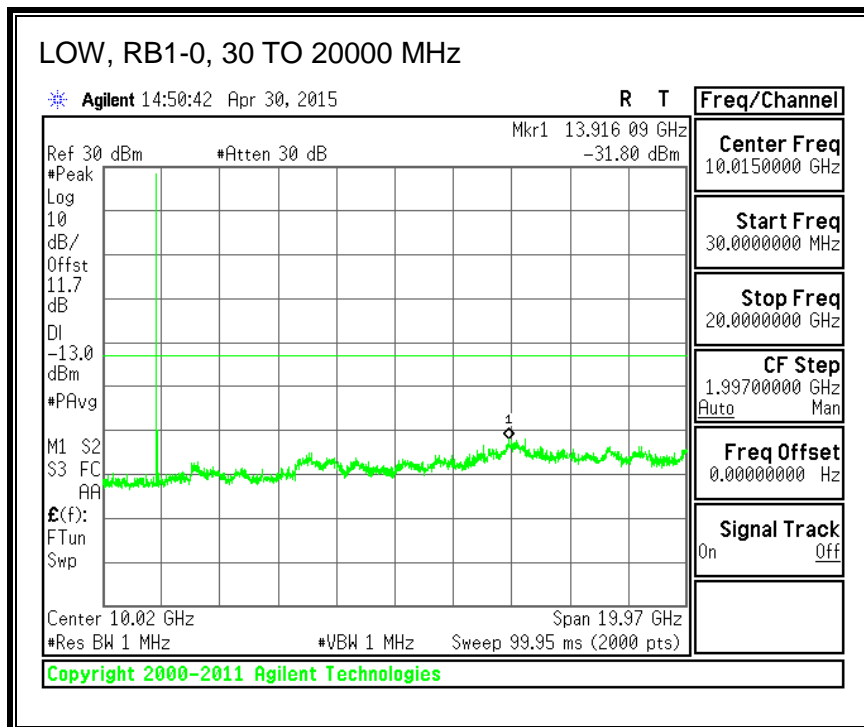


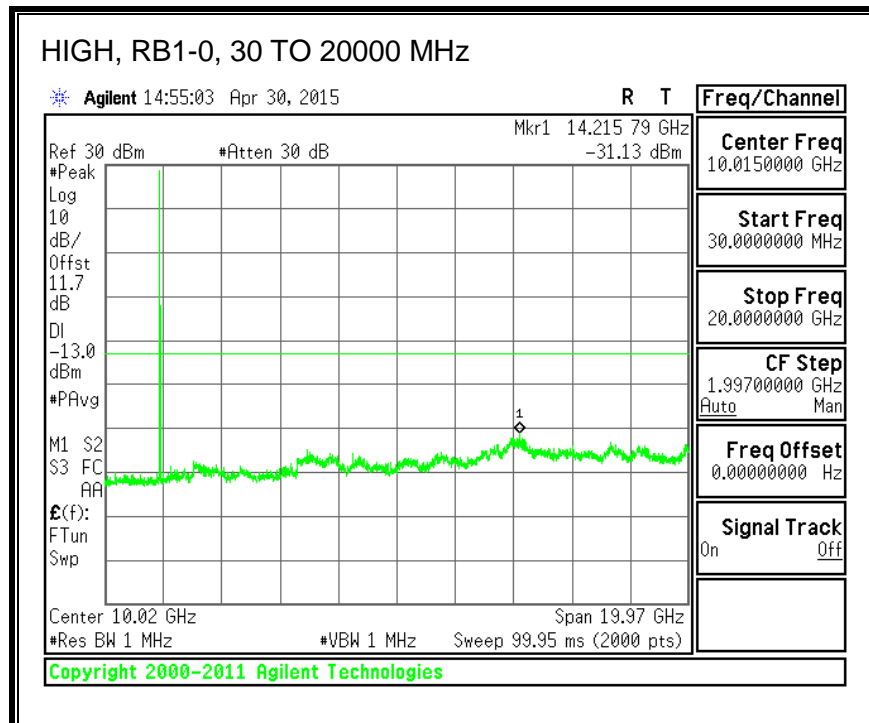
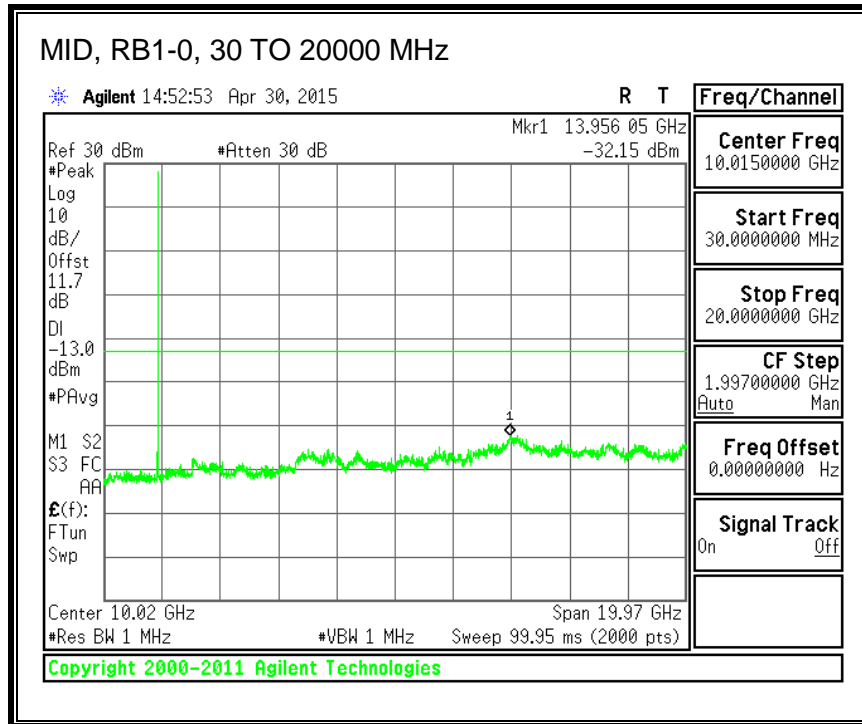
**QPSK, (3.0 MHz BAND WIDTH)**



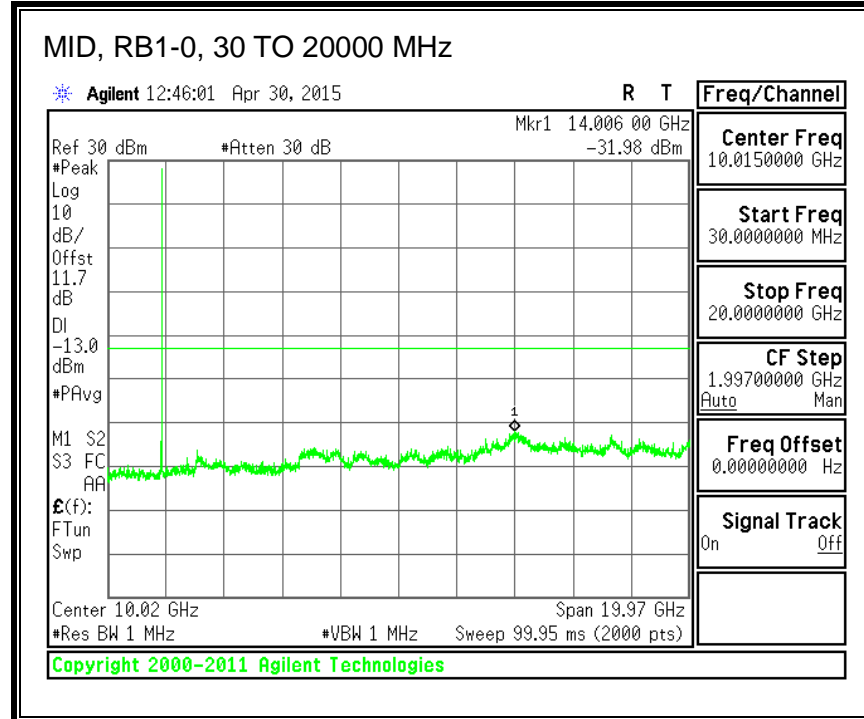
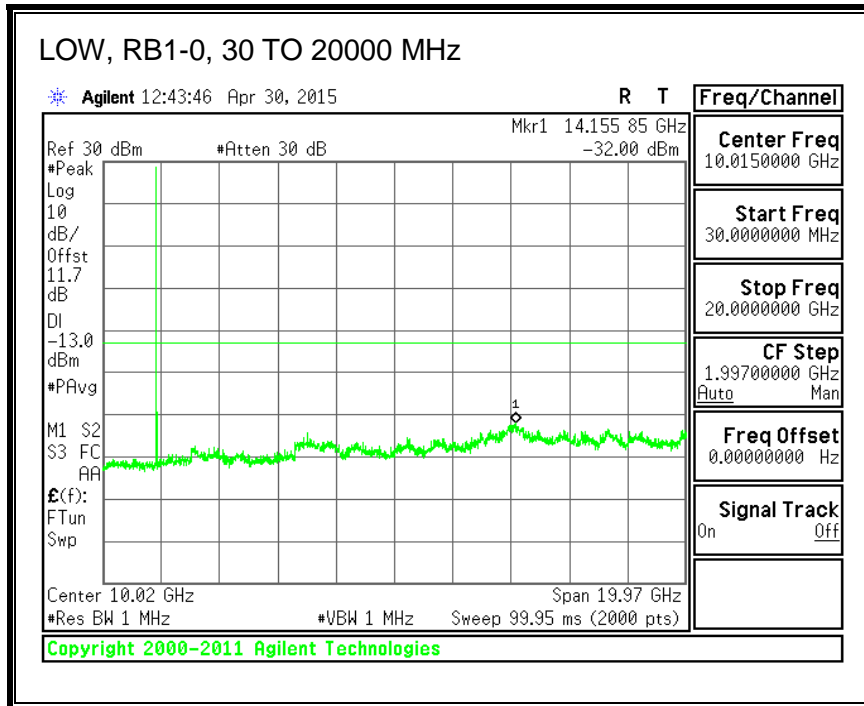


**16QAM, (3.0 MHz BAND WIDTH)**

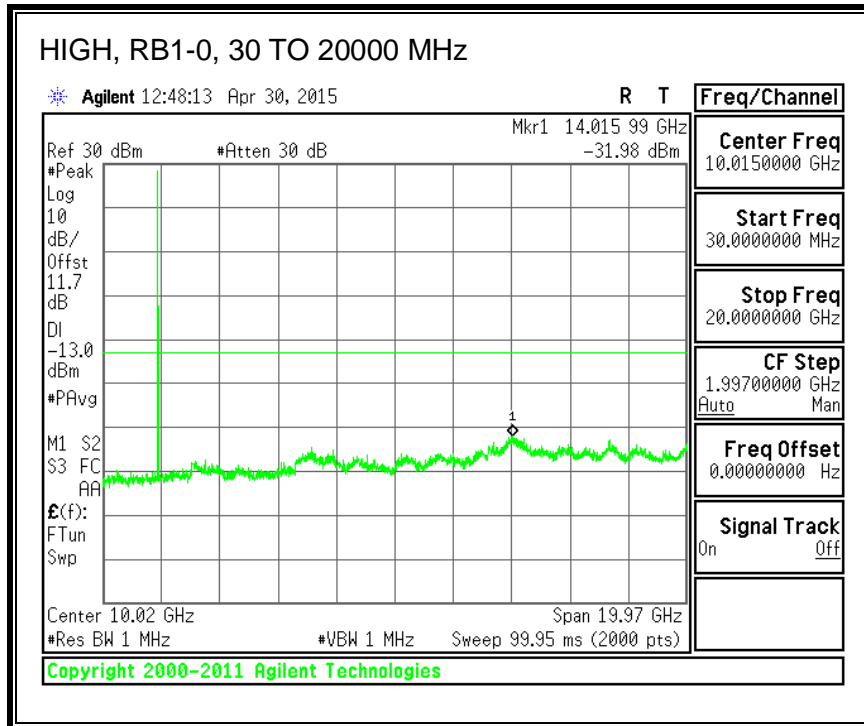




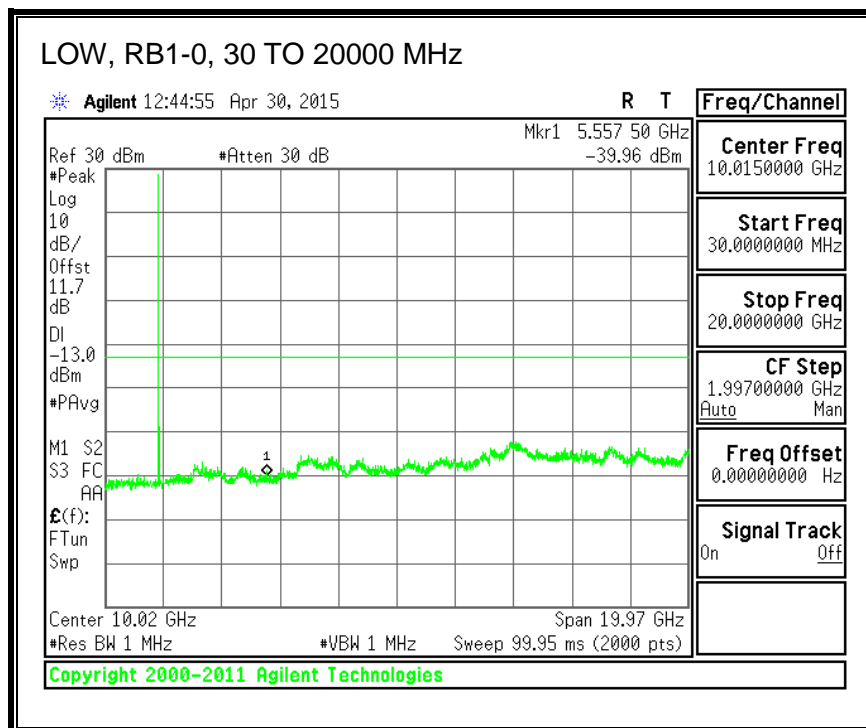
**QPSK, (5.0 MHz BAND WIDTH)**

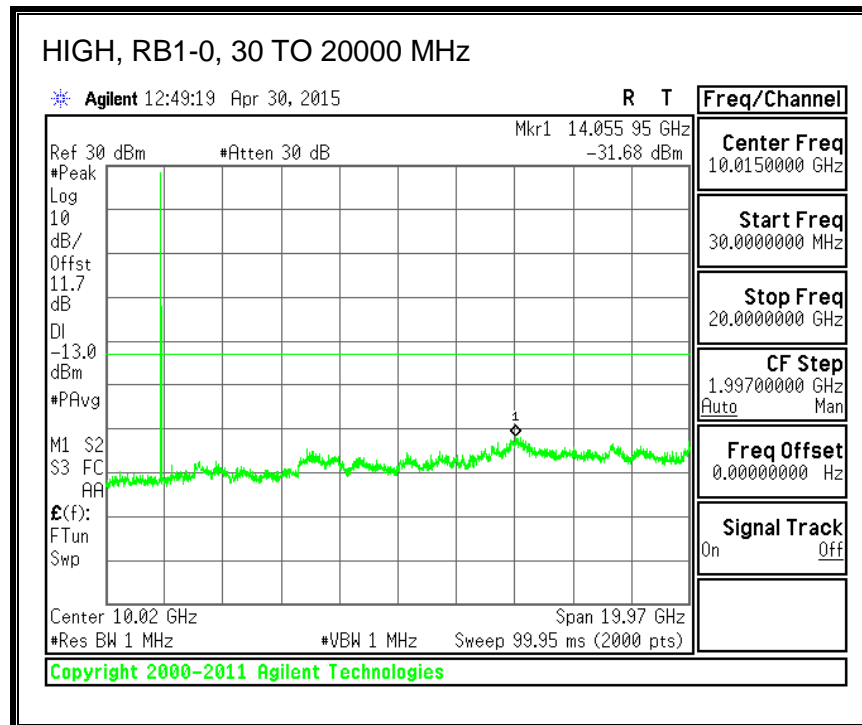
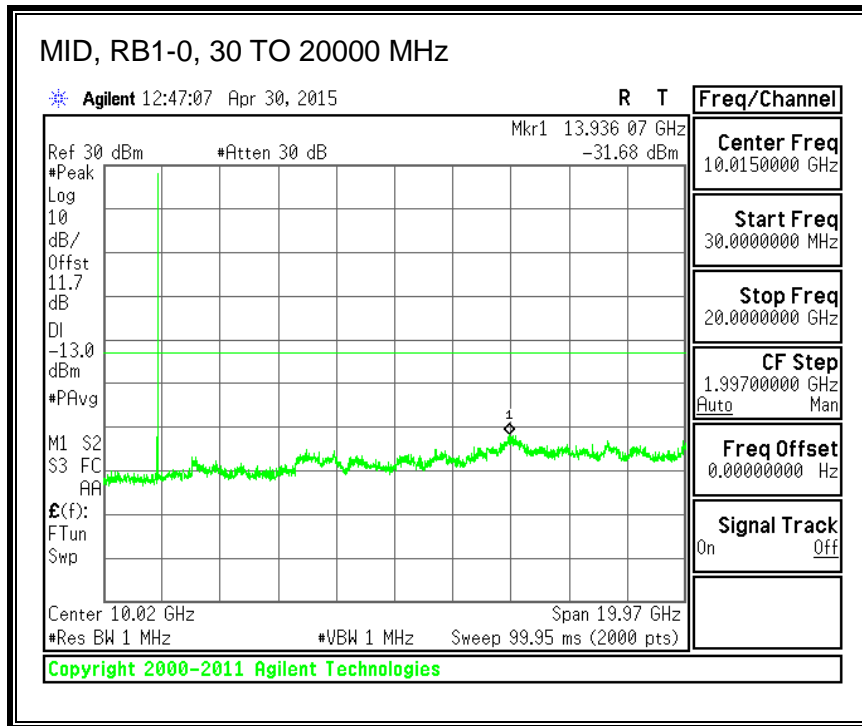




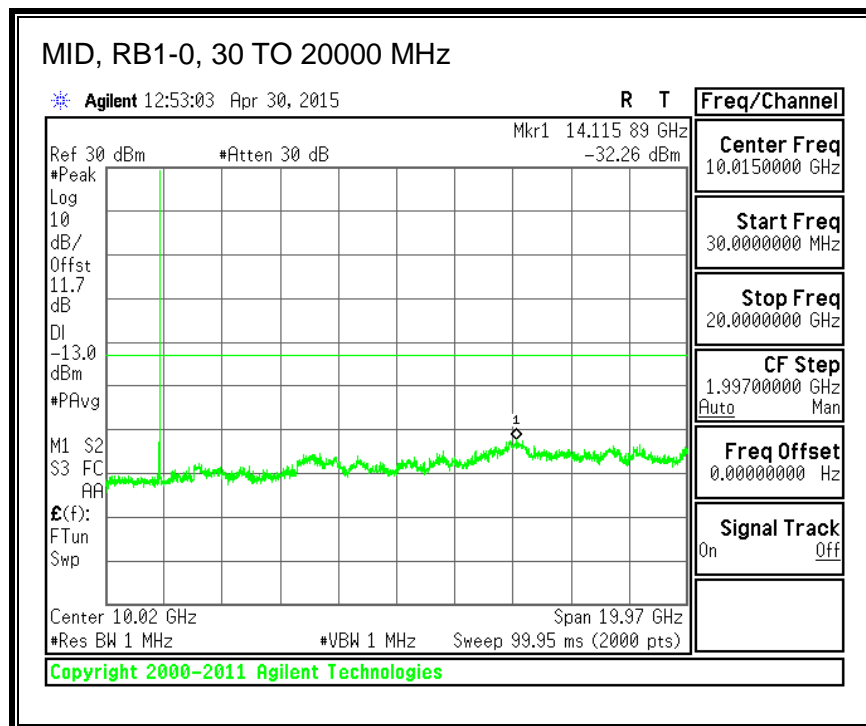
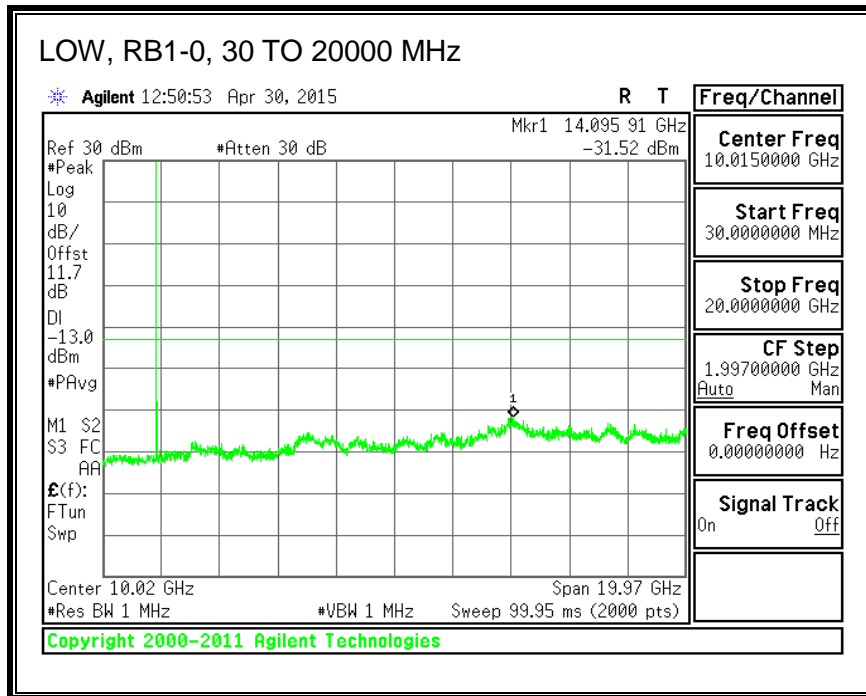


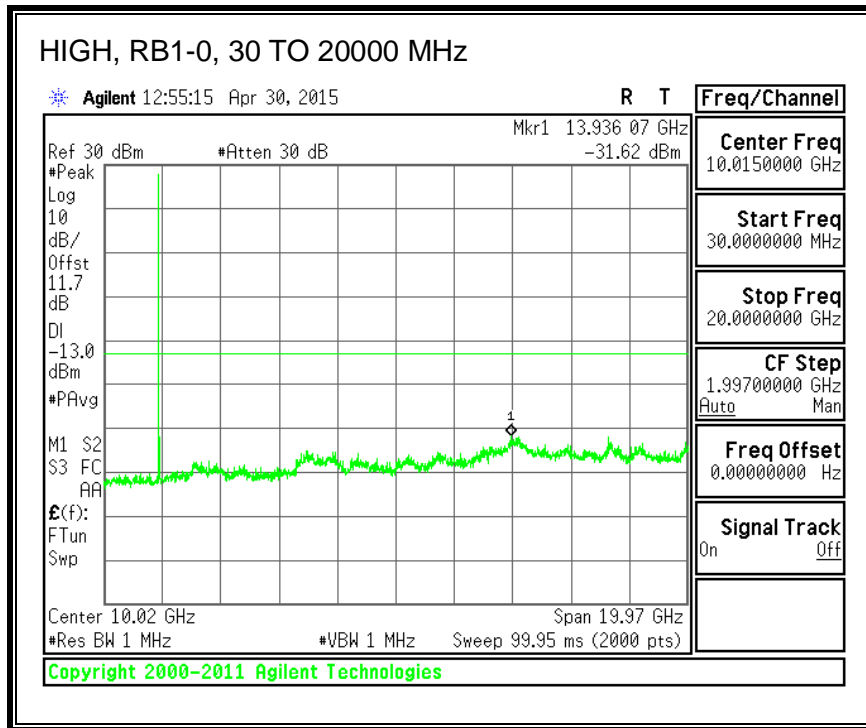
**16QAM, (5.0 MHz BAND WIDTH)**



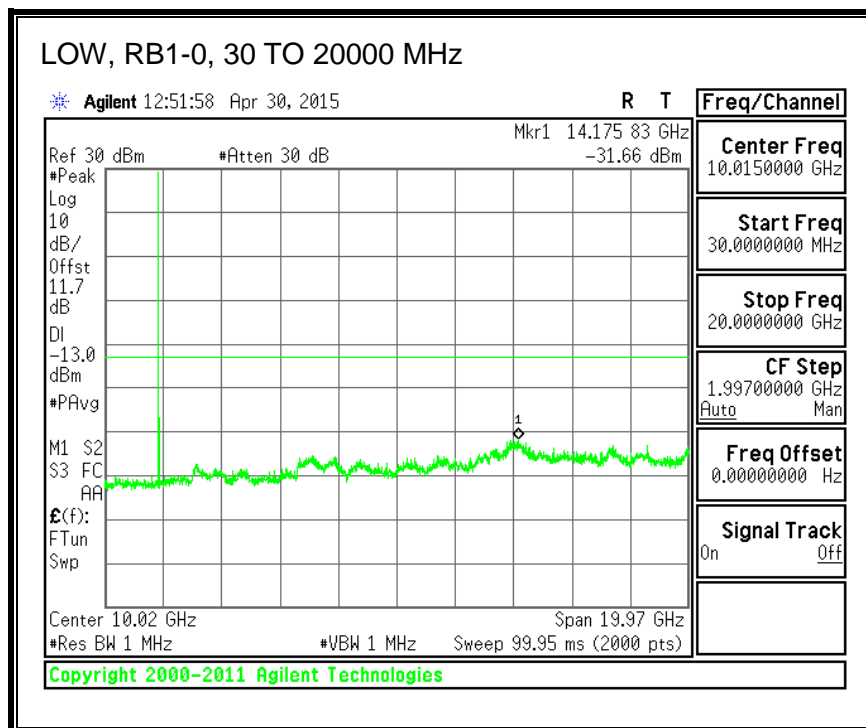


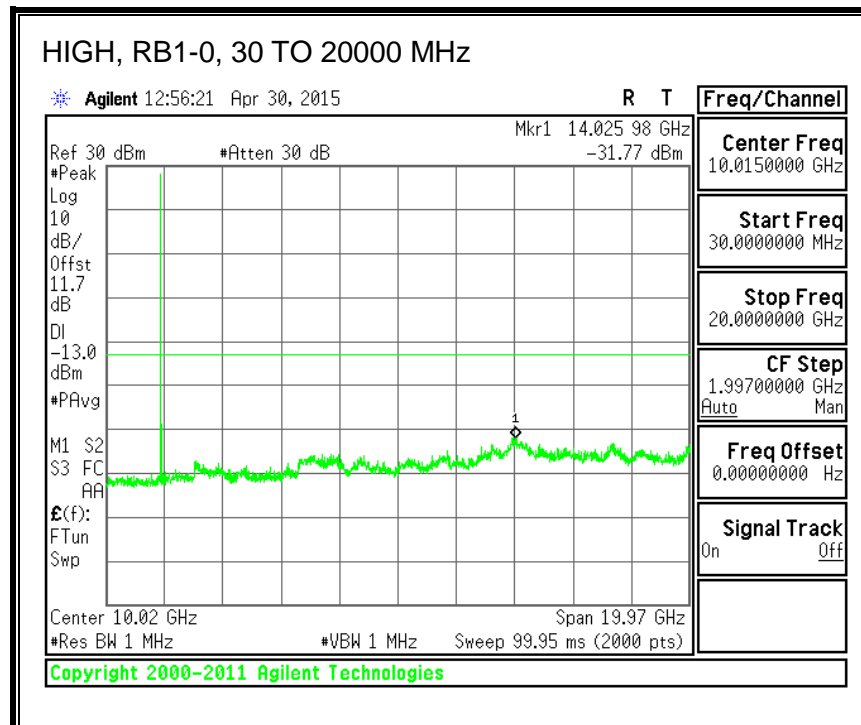
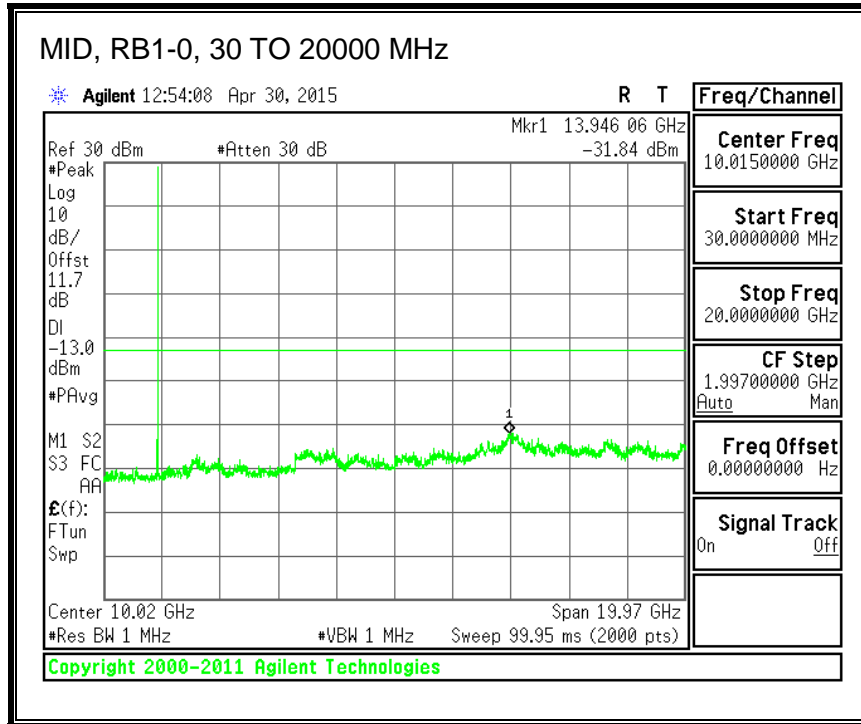
**QPSK, (10.0 MHz BAND WIDTH)**



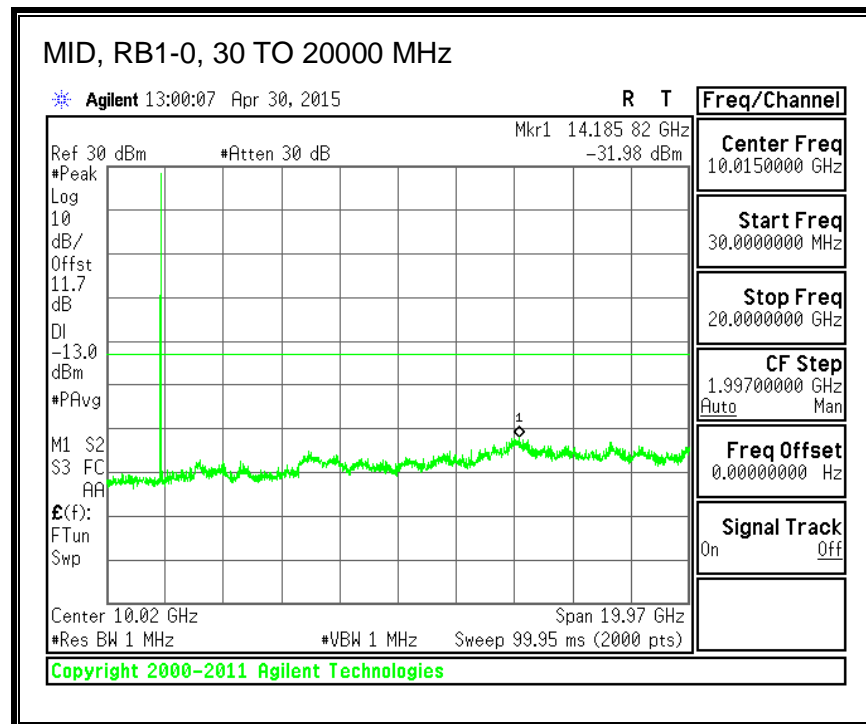
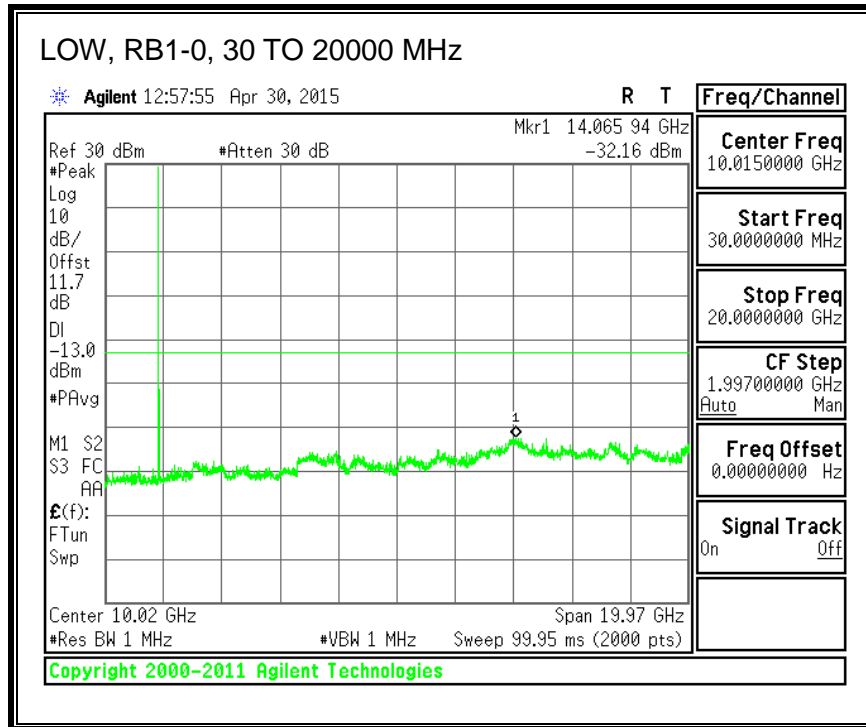


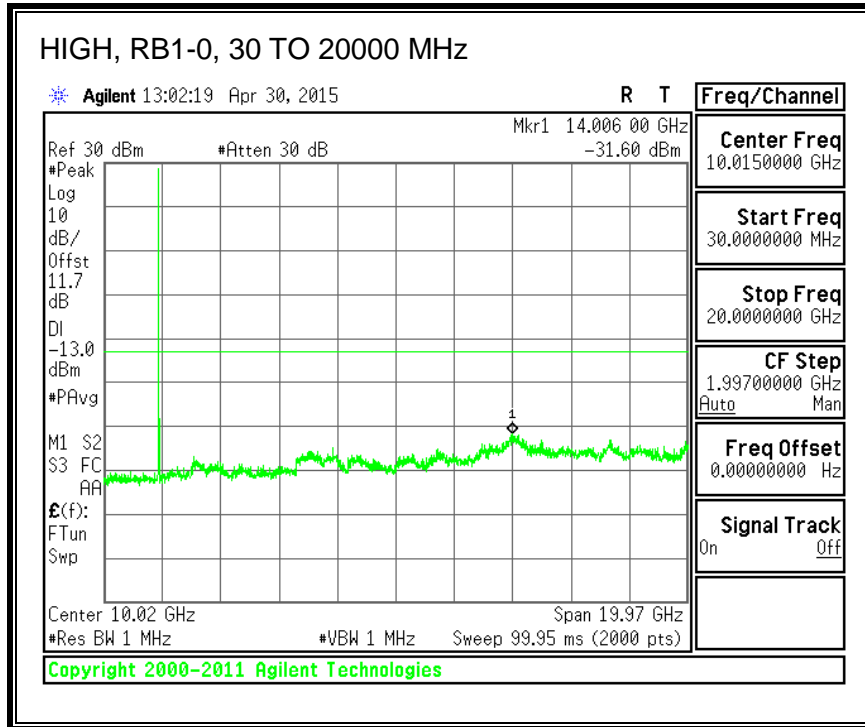
**16QAM, (10.0 MHz BAND WIDTH)**



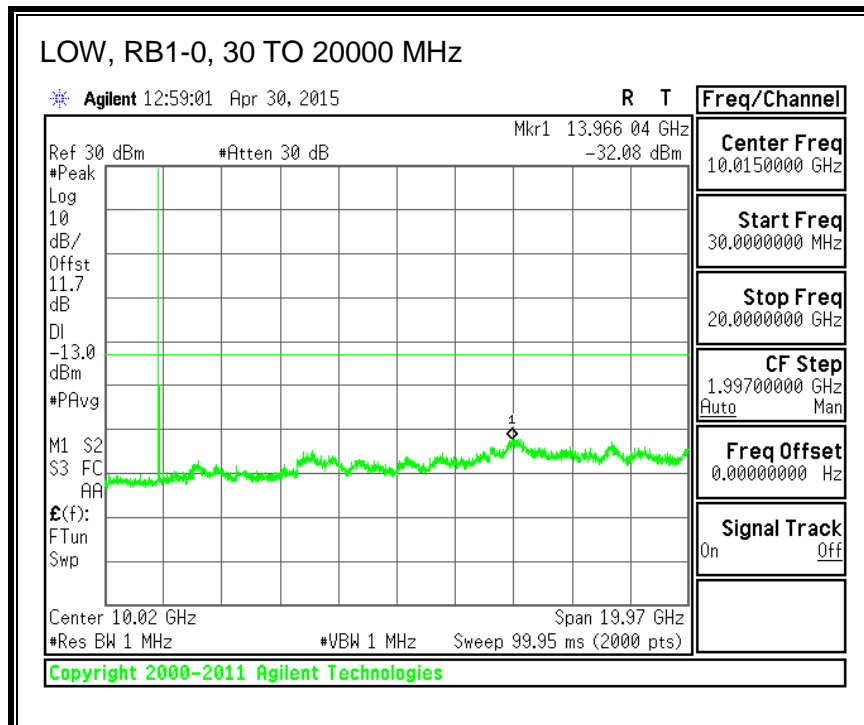


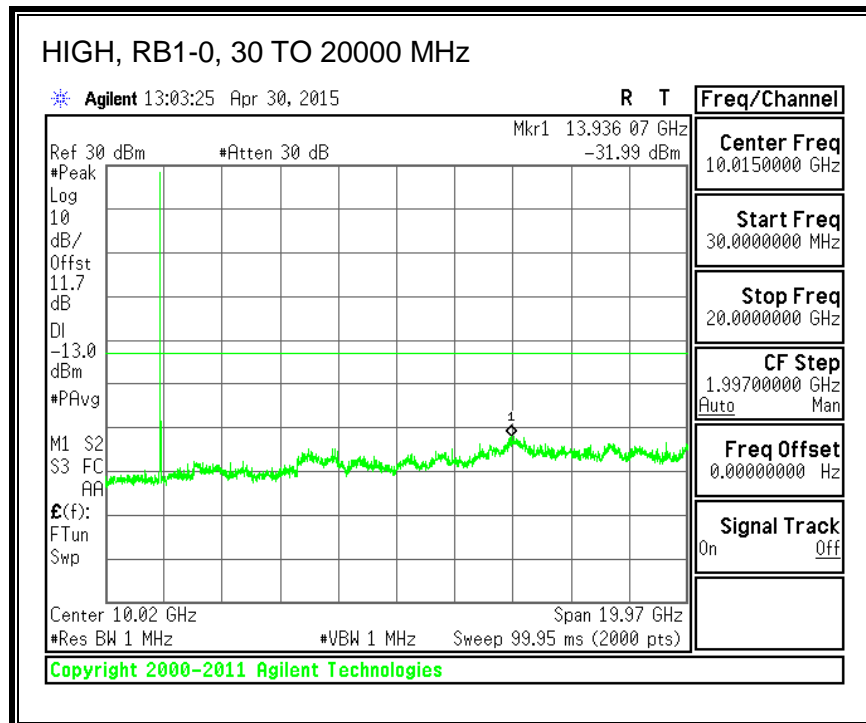
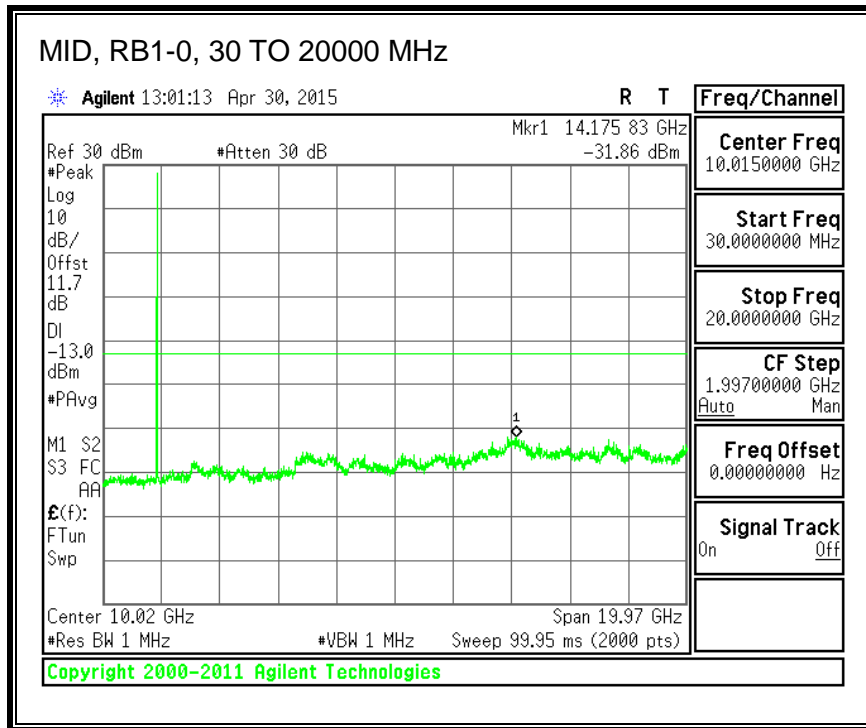
**QPSK, (15.0 MHz BAND WIDTH)**





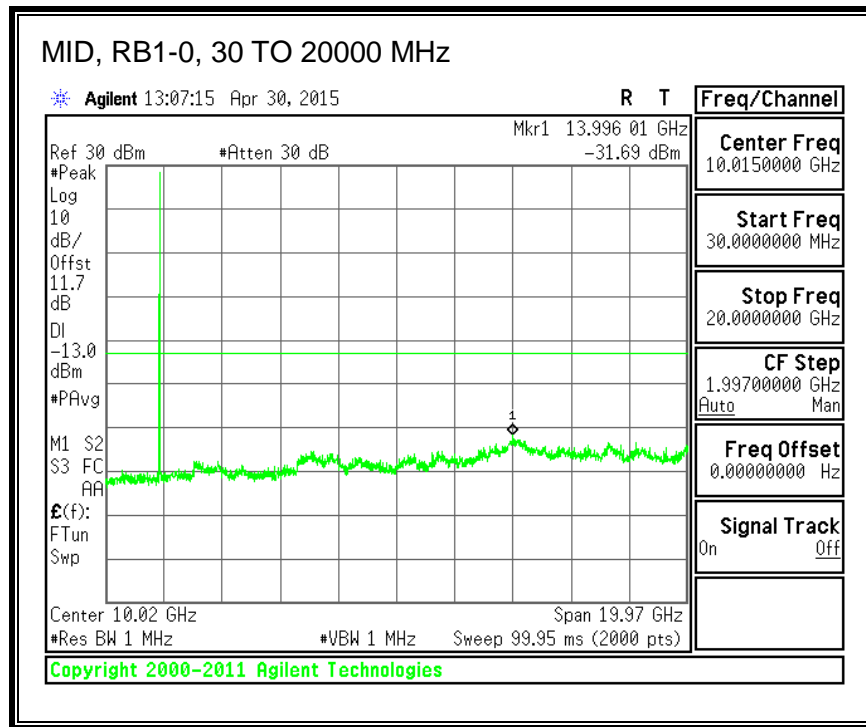
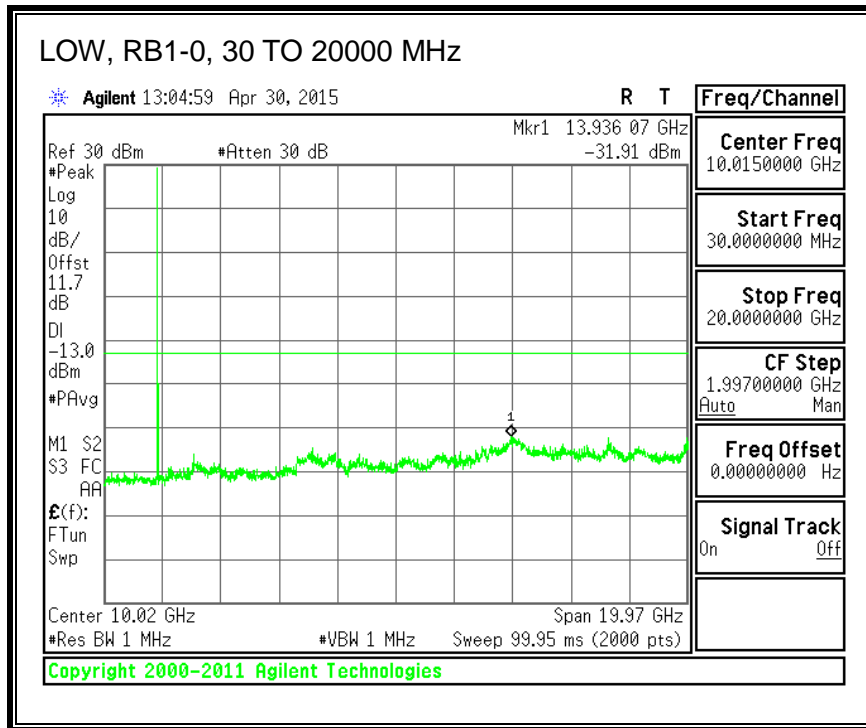
**16QAM, (15.0 MHz BAND WIDTH)**

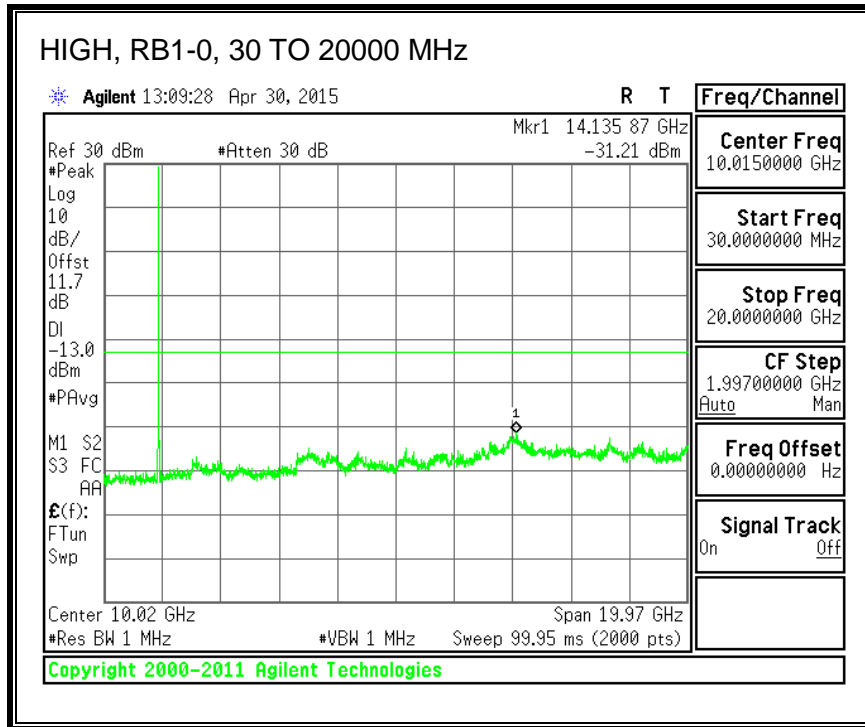




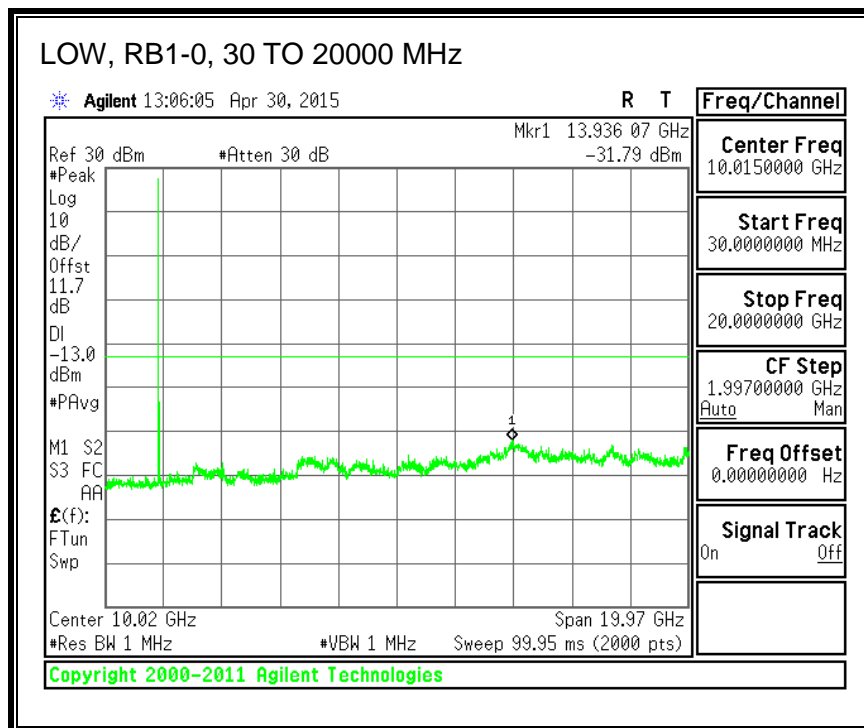


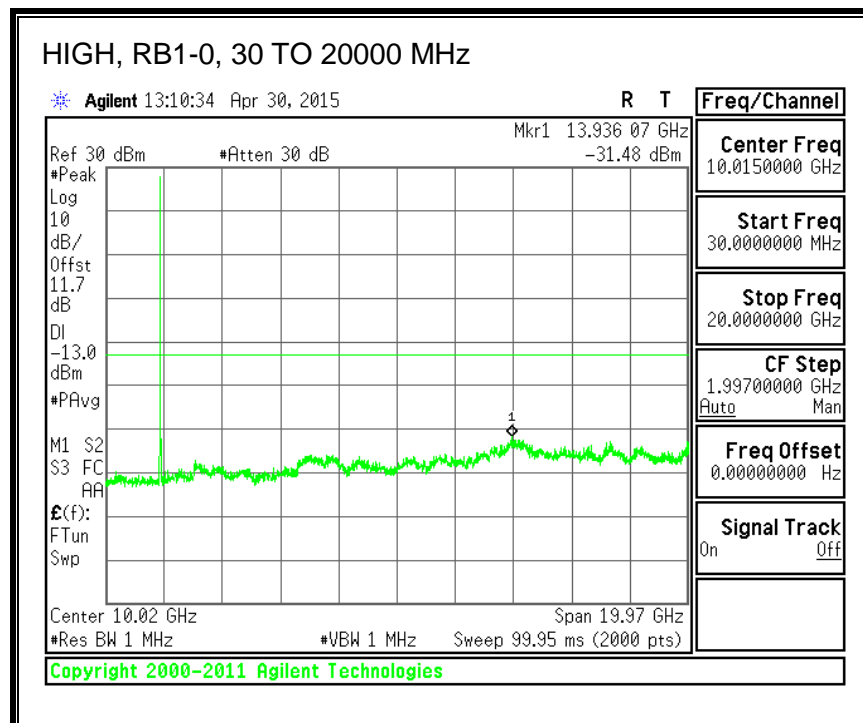
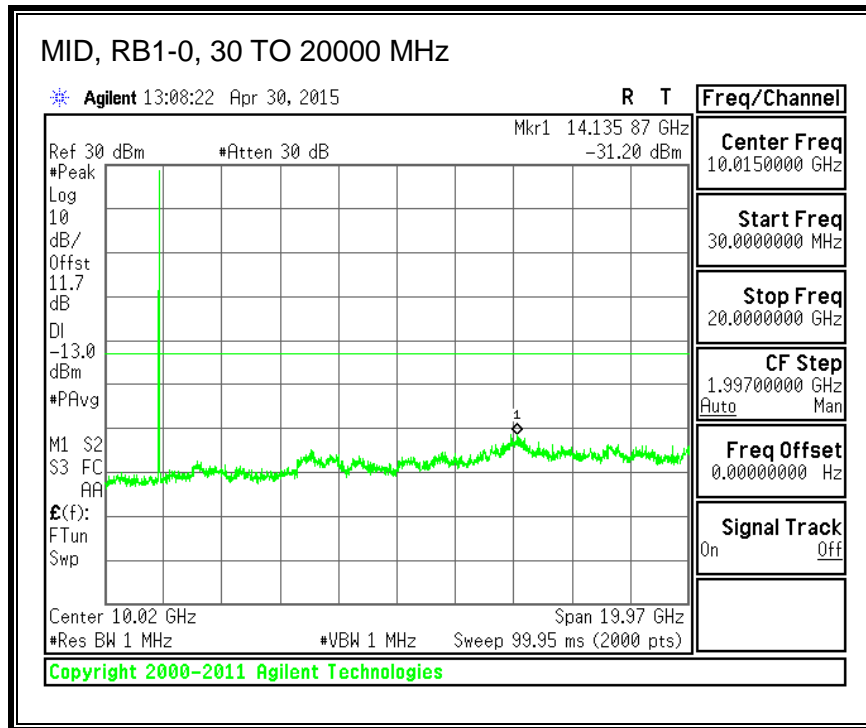
**QPSK, (20.0 MHz BAND WIDTH)**





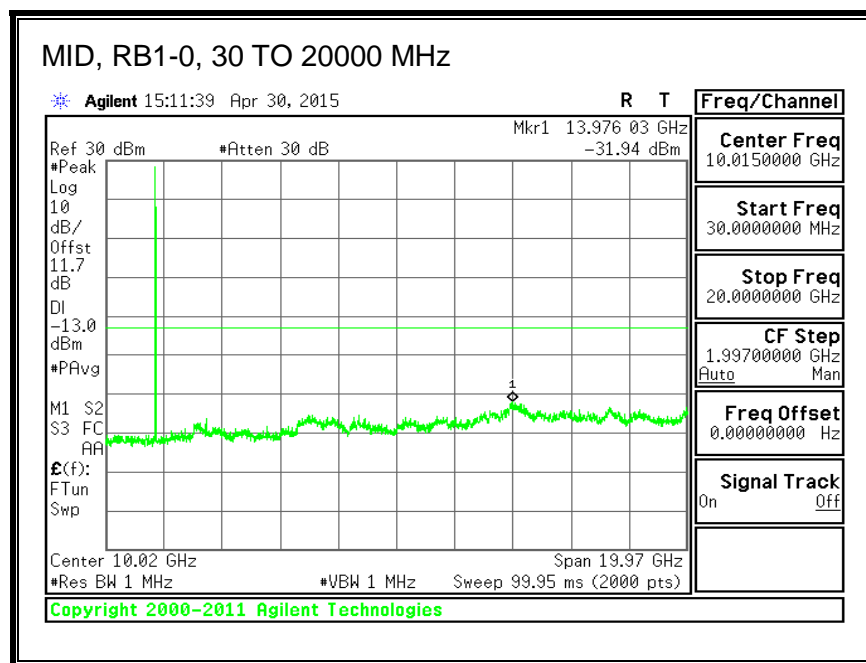
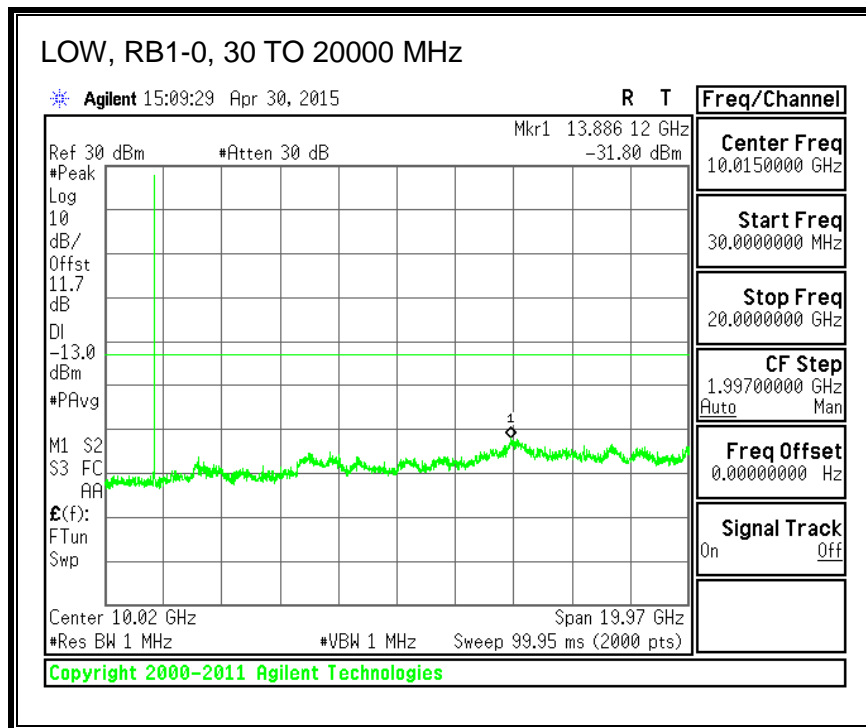
**16QAM, (20.0 MHz BAND WIDTH)**

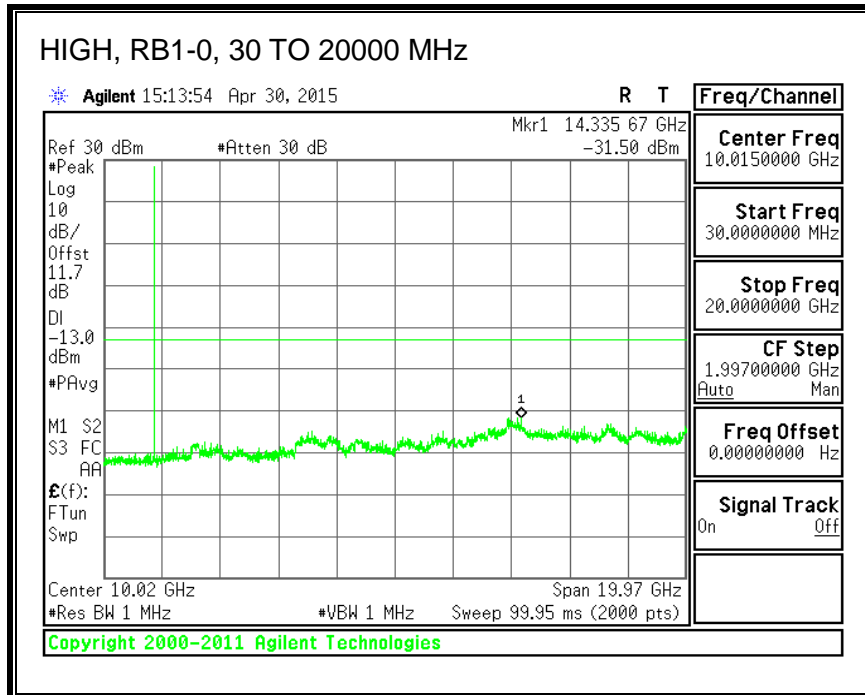




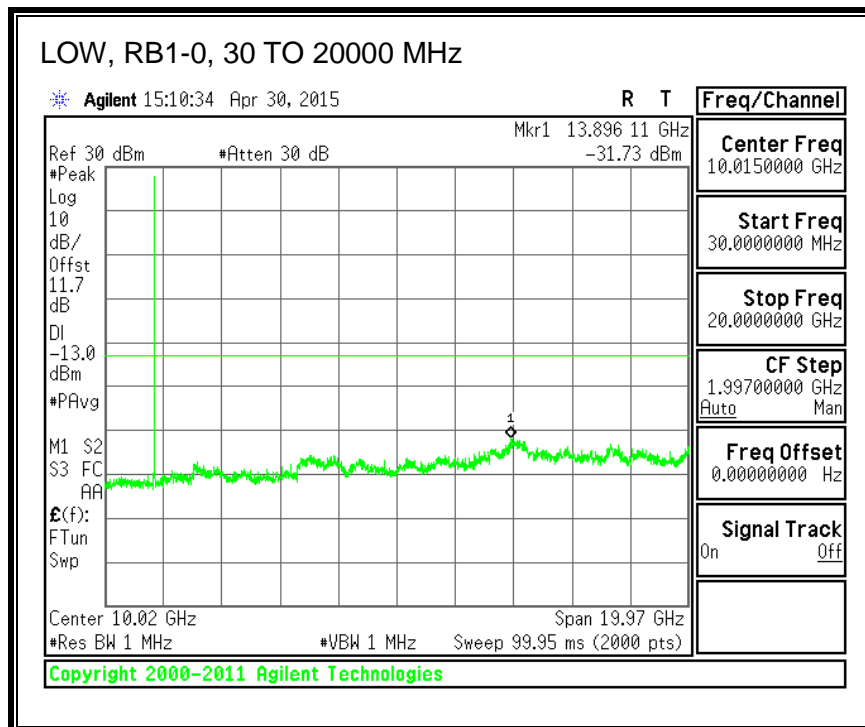
### 8.5.2. LTE BAND 4

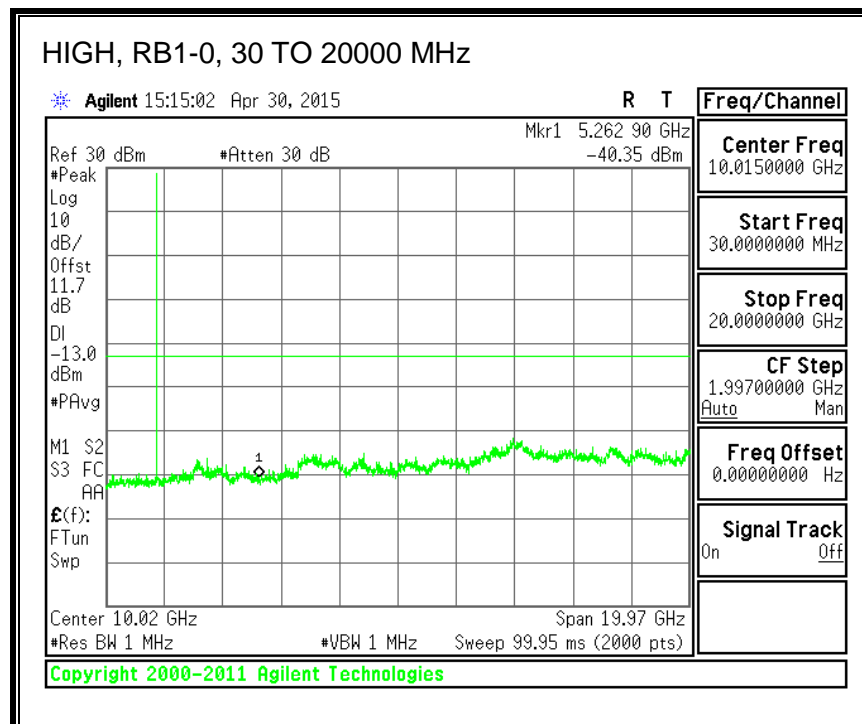
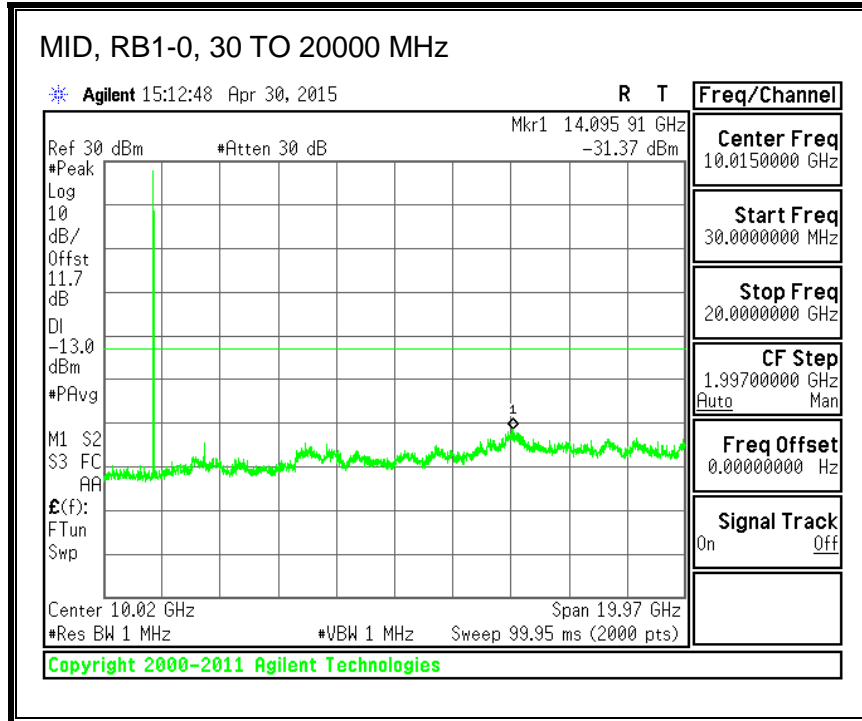
#### QPSK, (1.4 MHz BAND WIDTH)



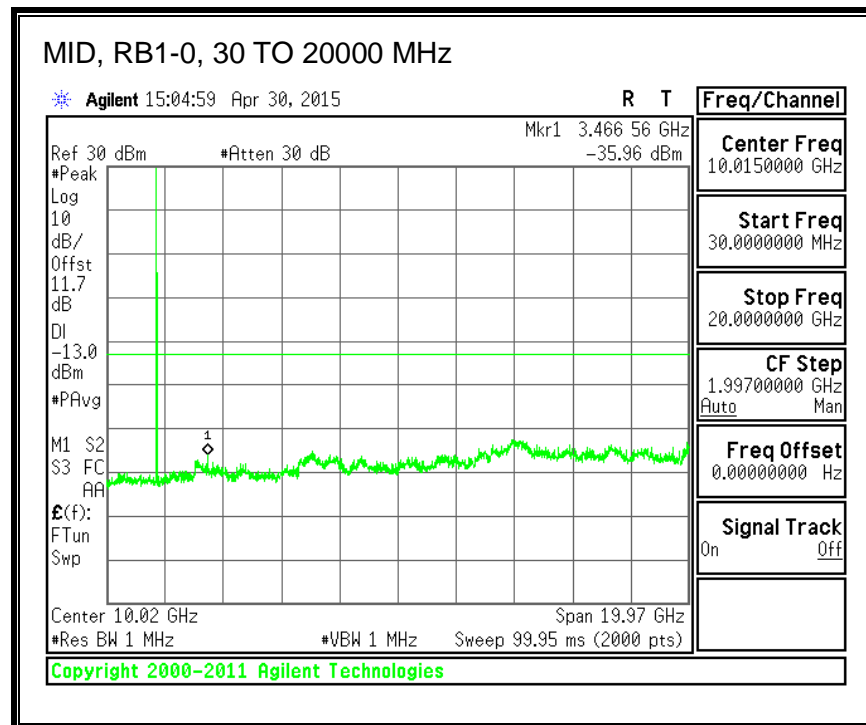
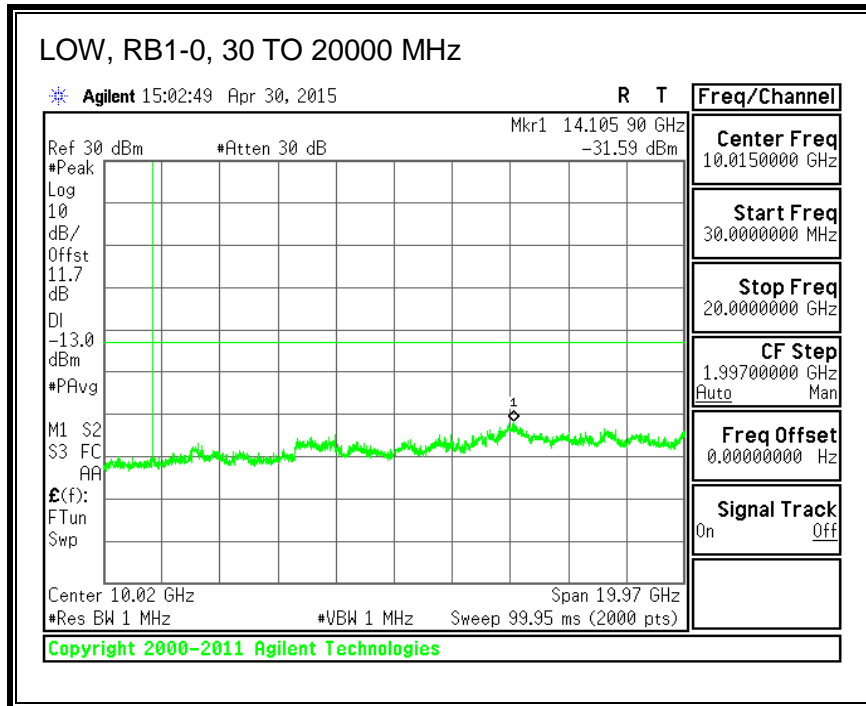


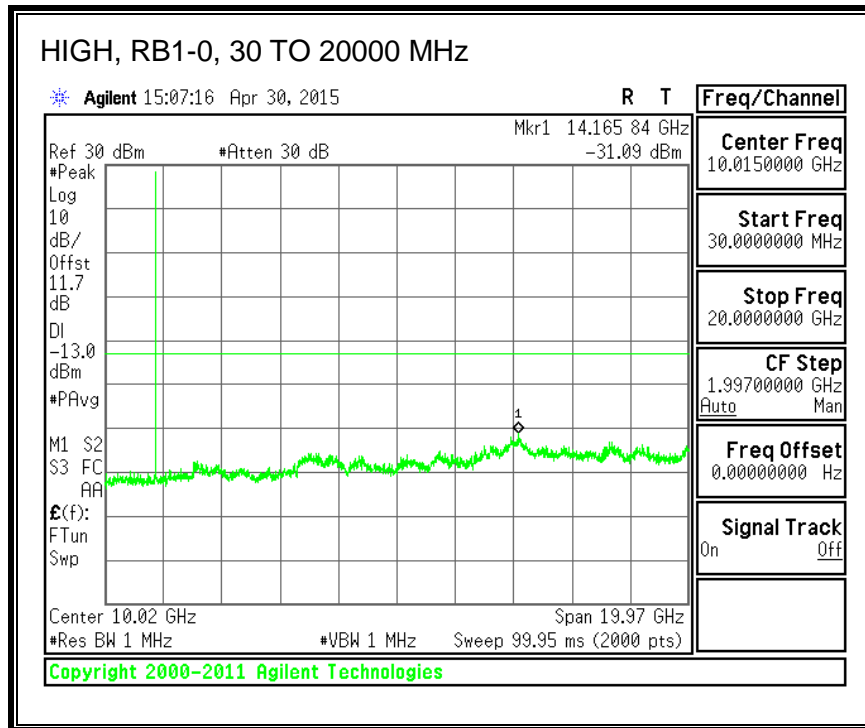
**16QAM, (1.4 MHz BAND WIDTH)**



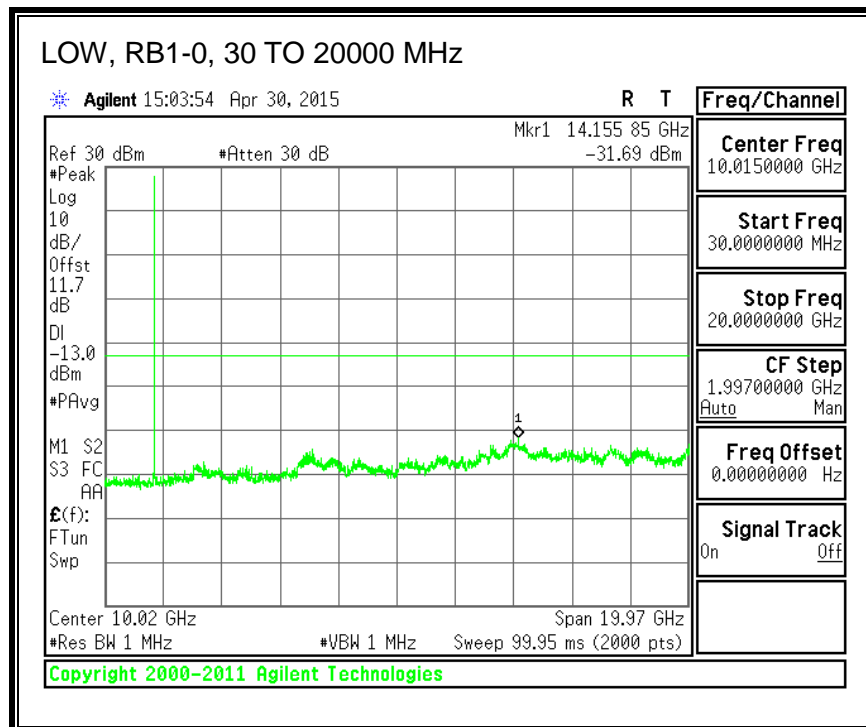


**QPSK, (3.0 MHz BAND WIDTH)**

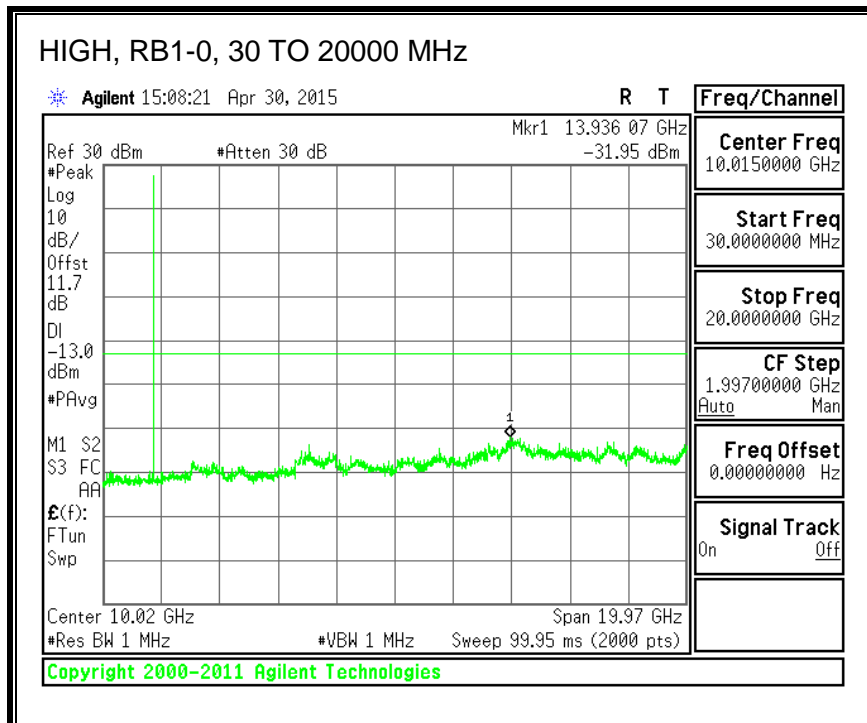
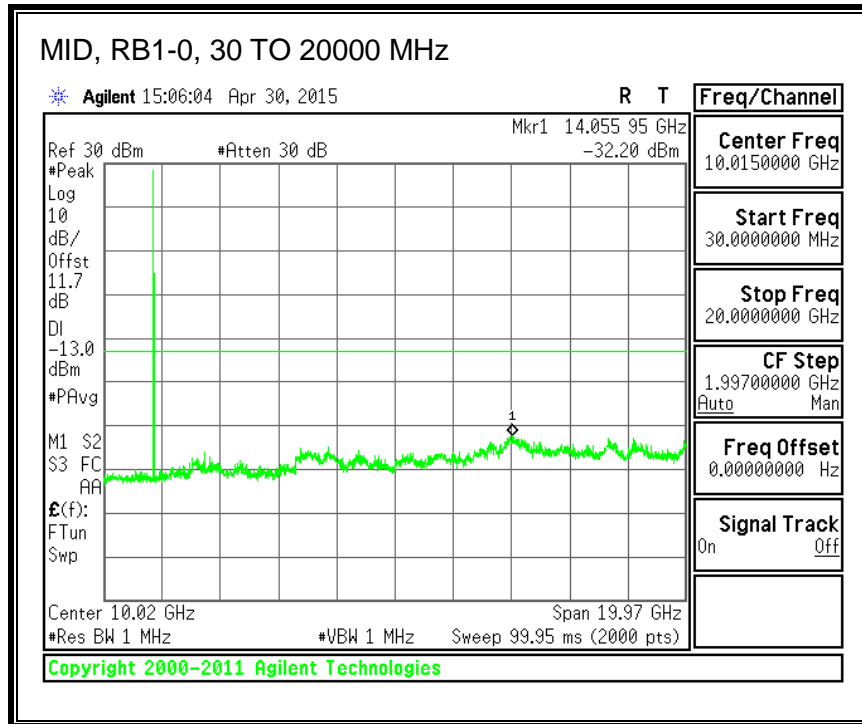




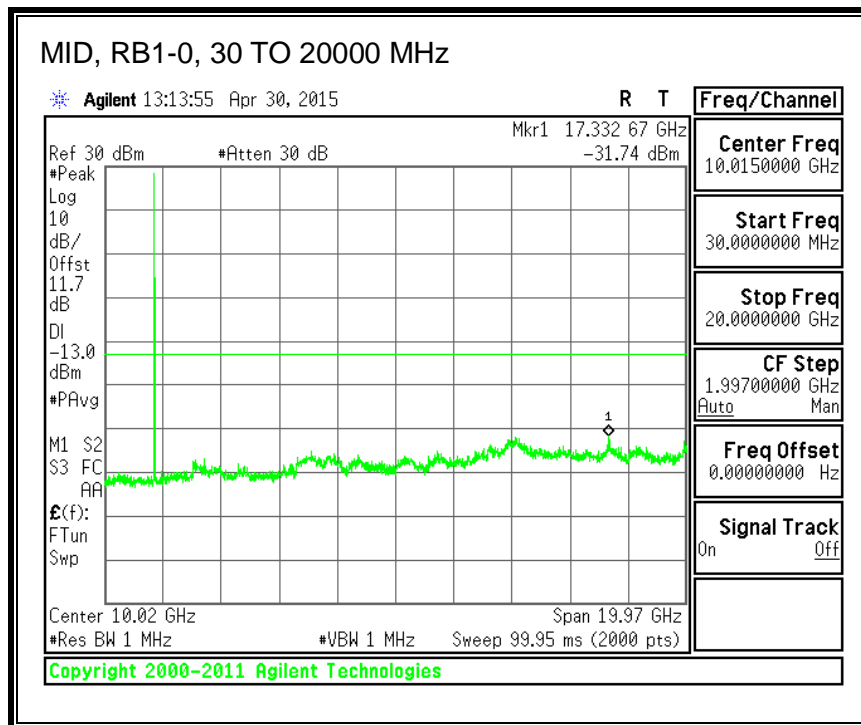
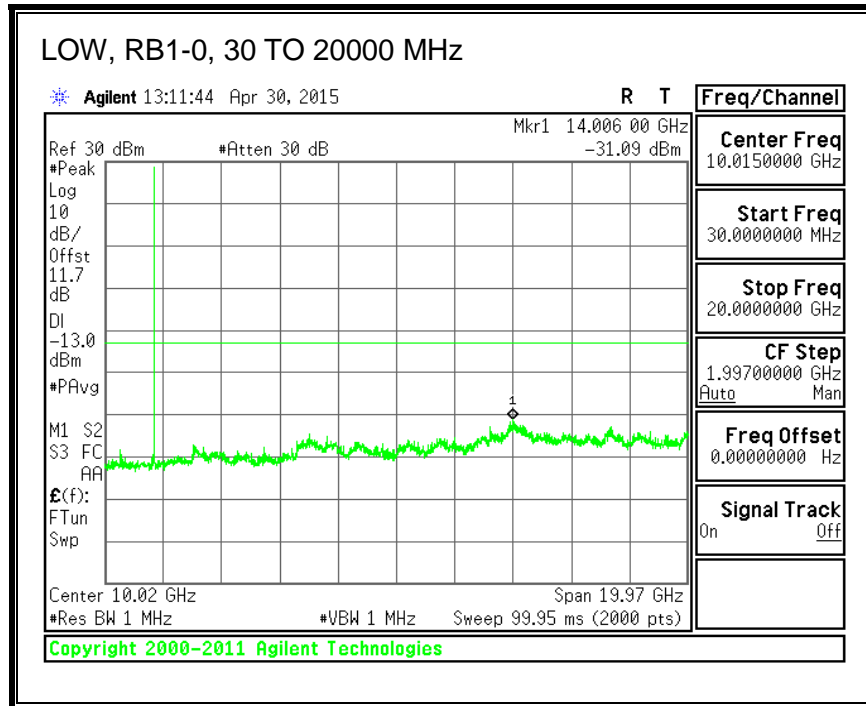
**16QAM, (3.0 MHz BAND WIDTH)**

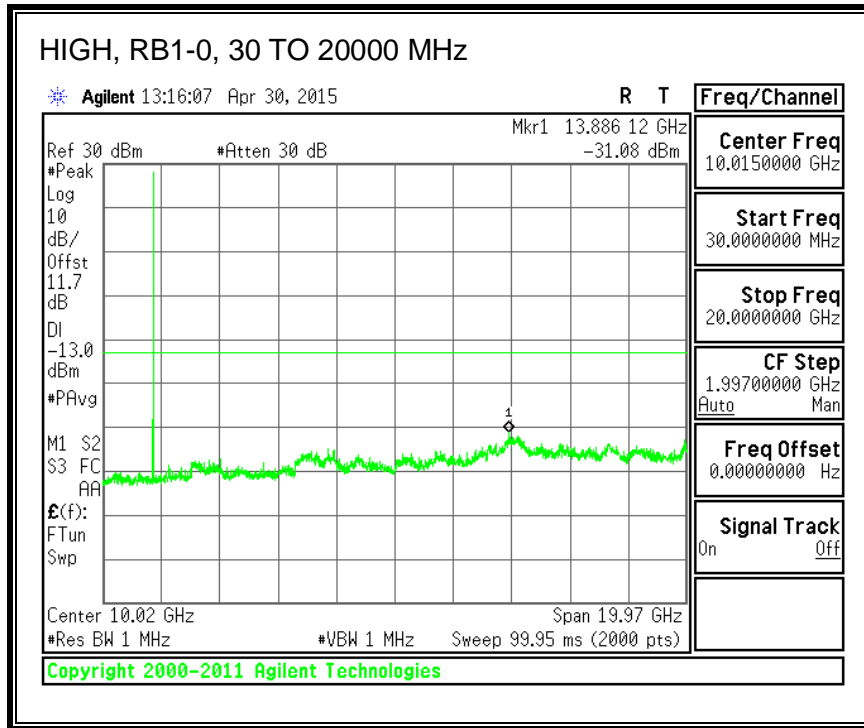




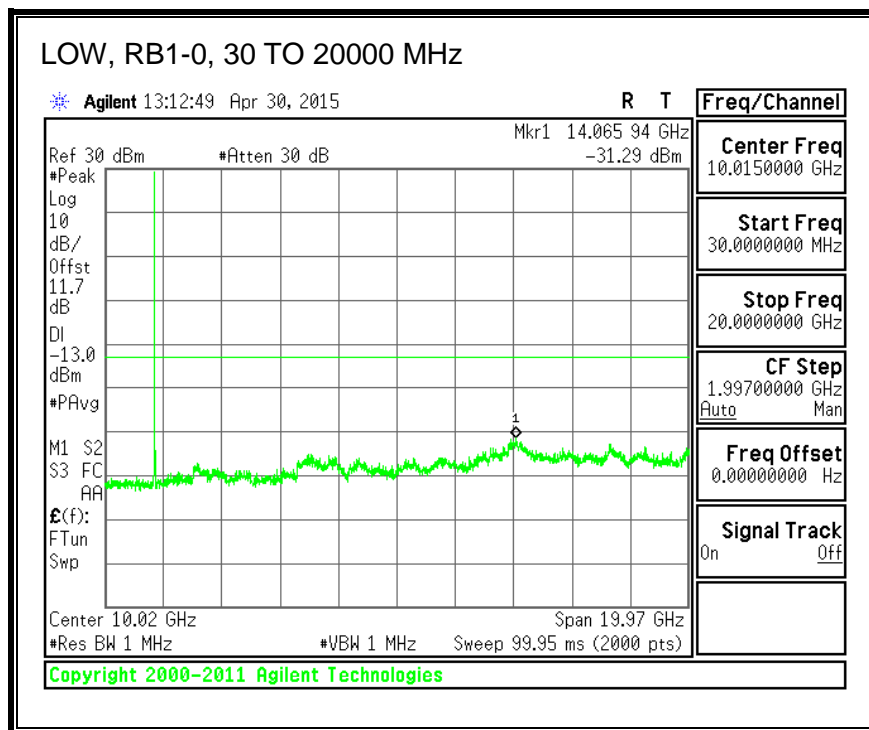


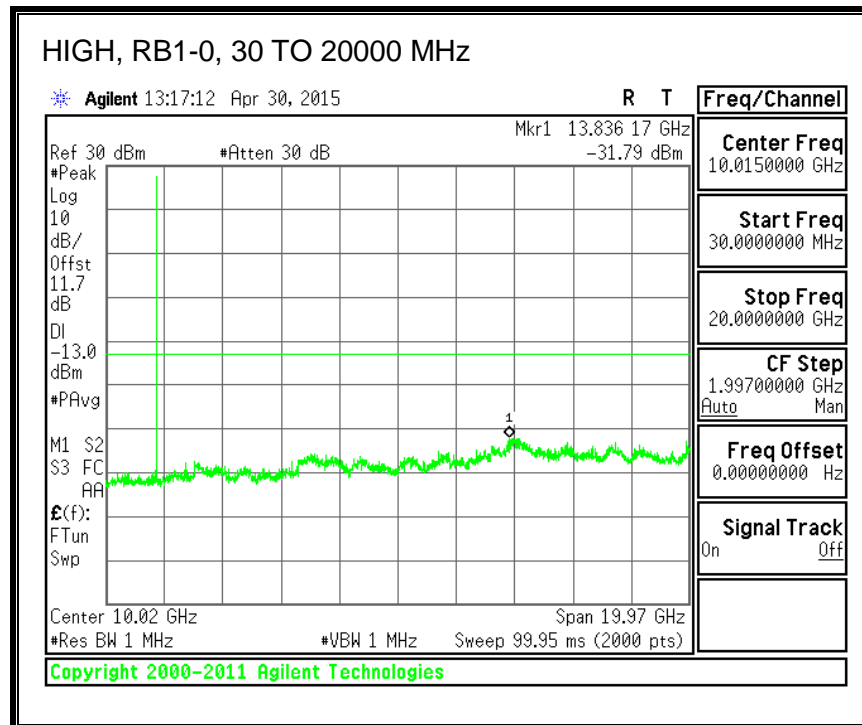
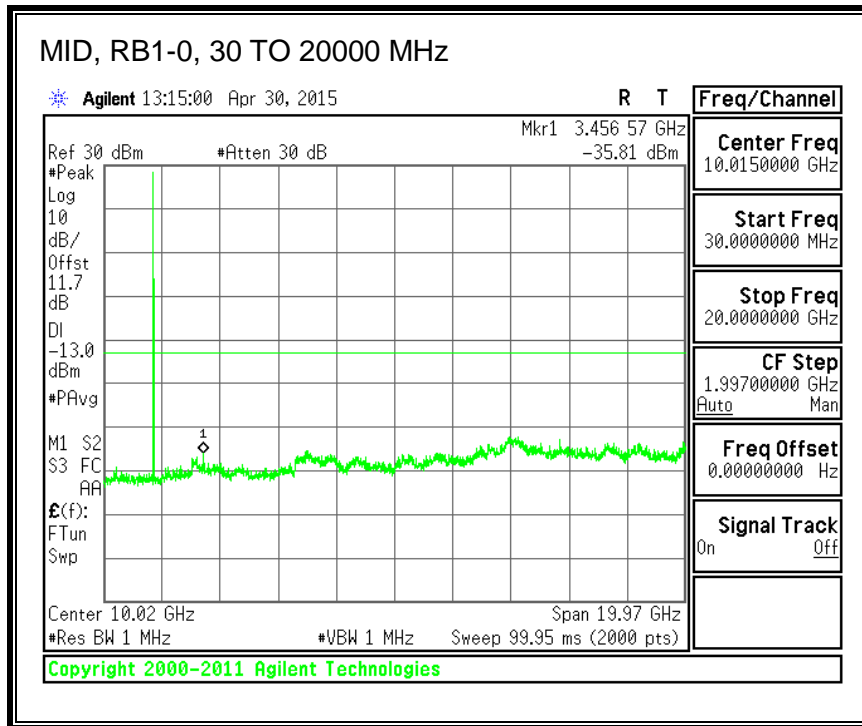
**QPSK, (5.0 MHz BAND WIDTH)**



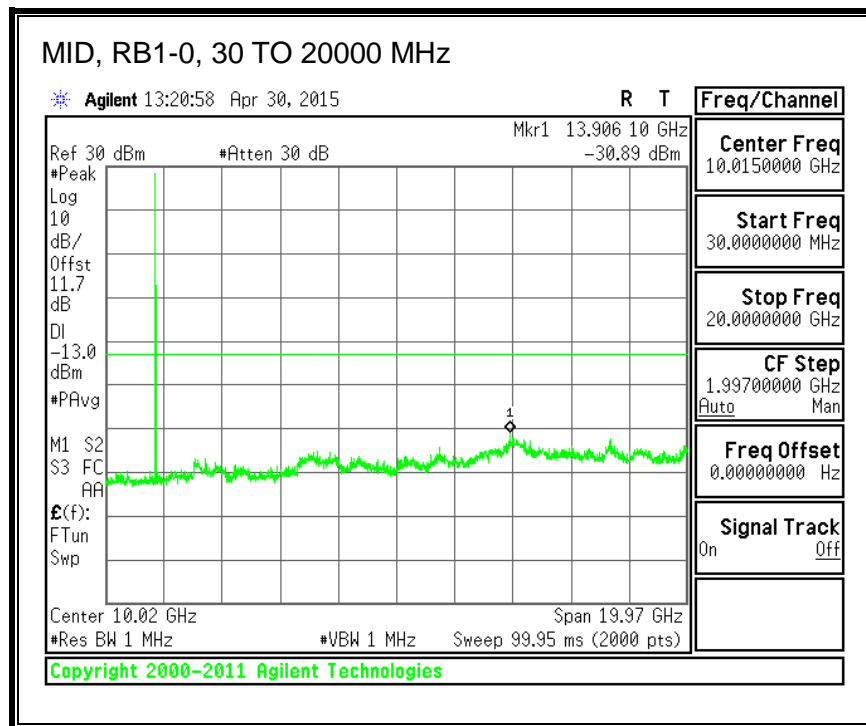
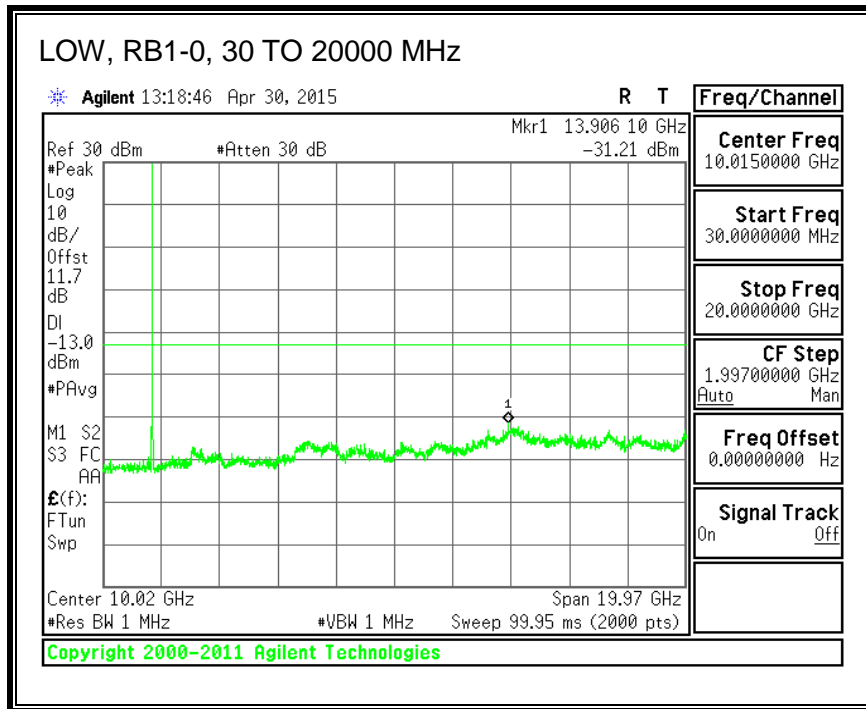


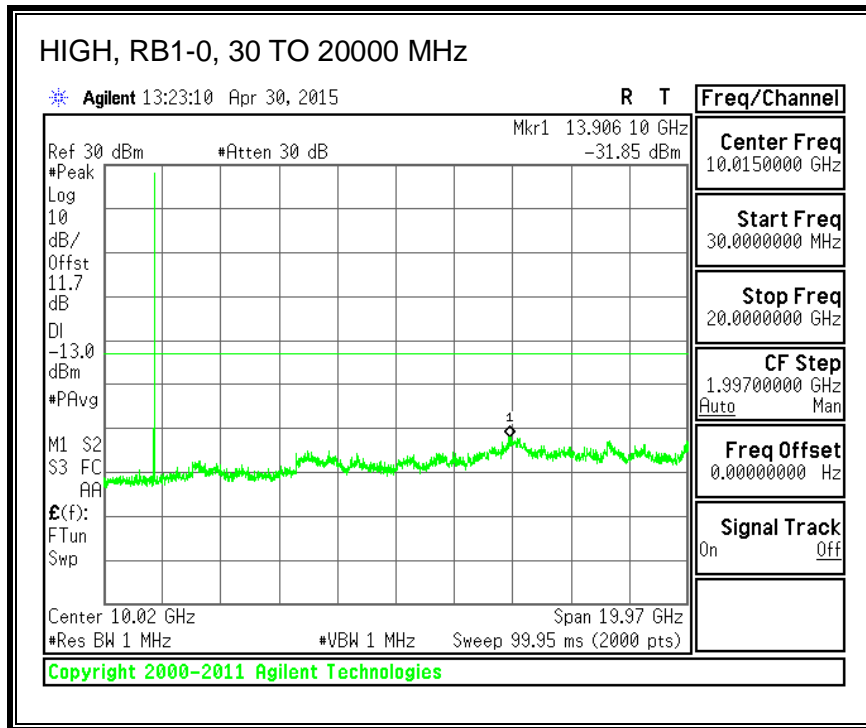
**16QAM, (5.0 MHz BAND WIDTH)**



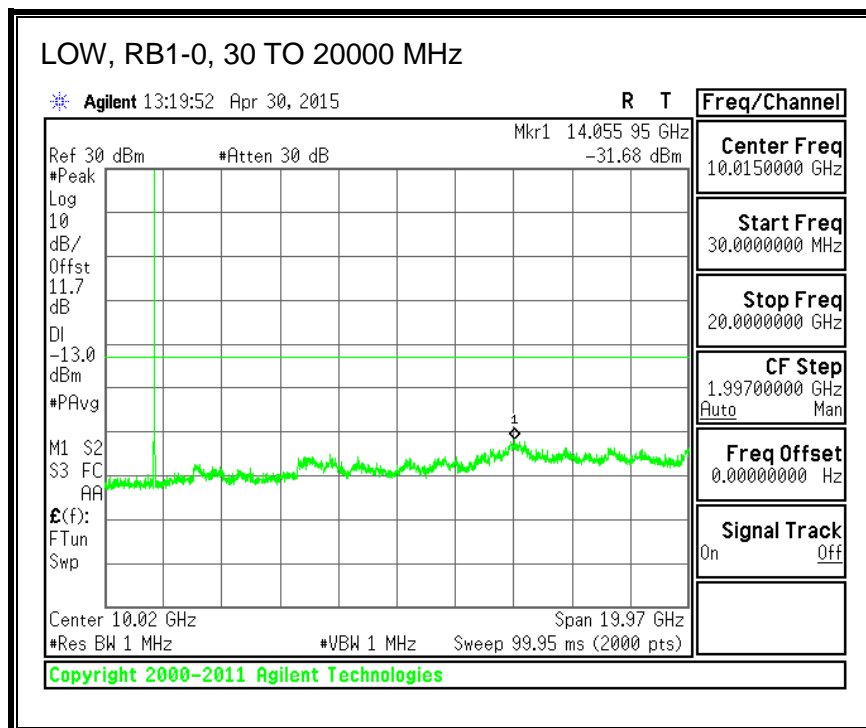


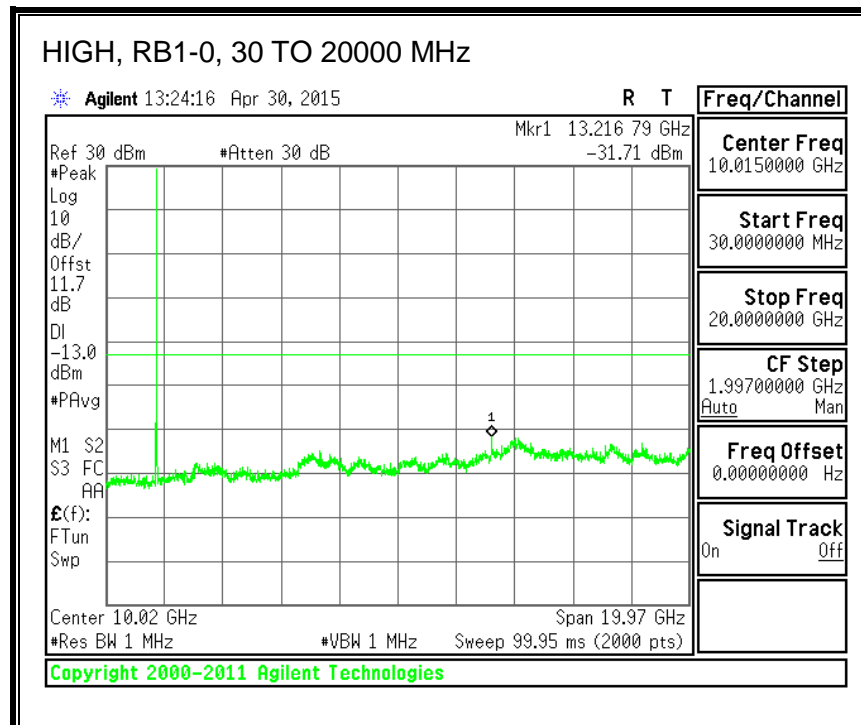
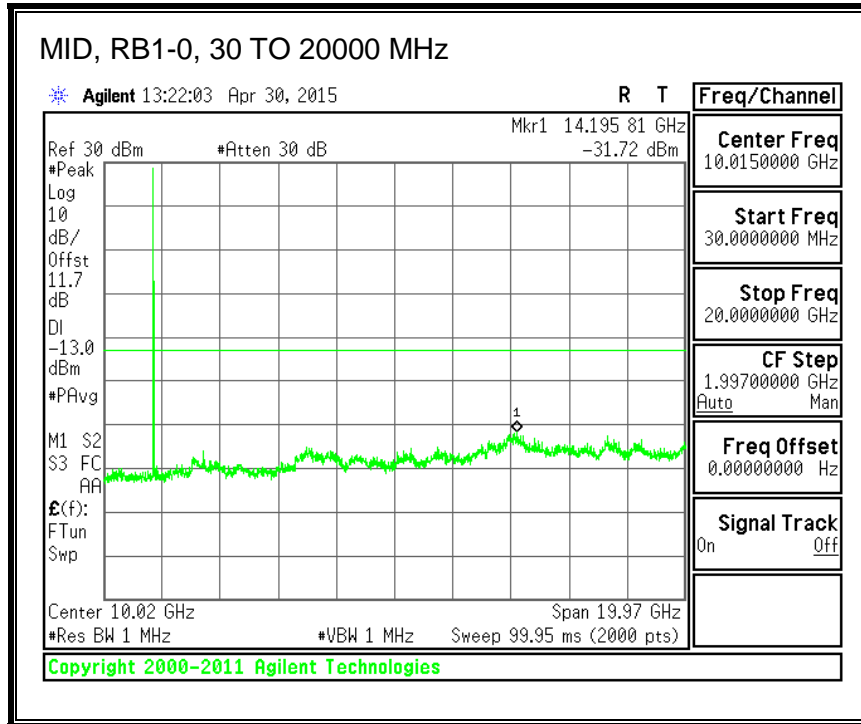
**QPSK, (10.0 MHz BAND WIDTH)**



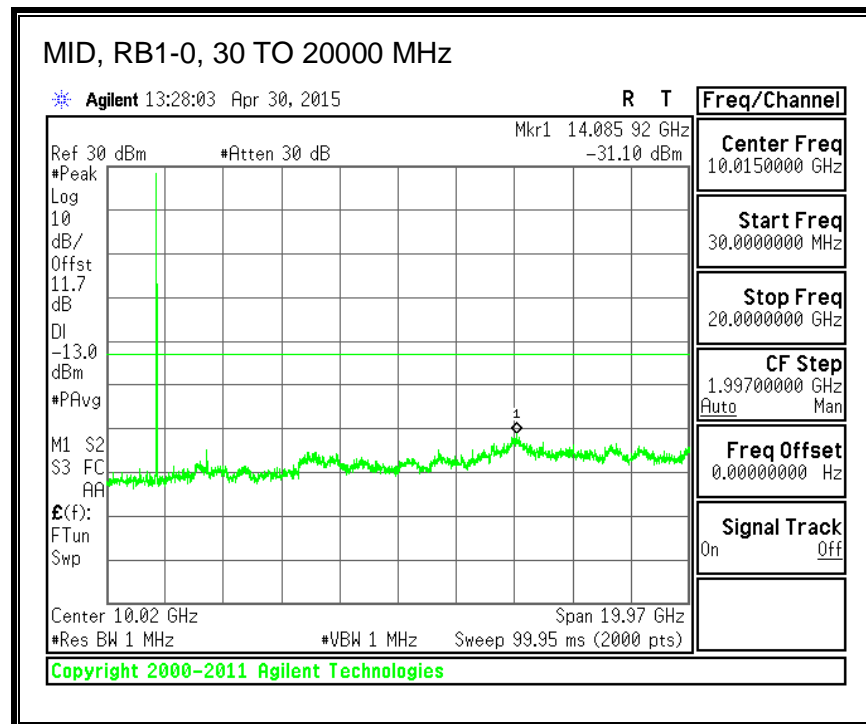
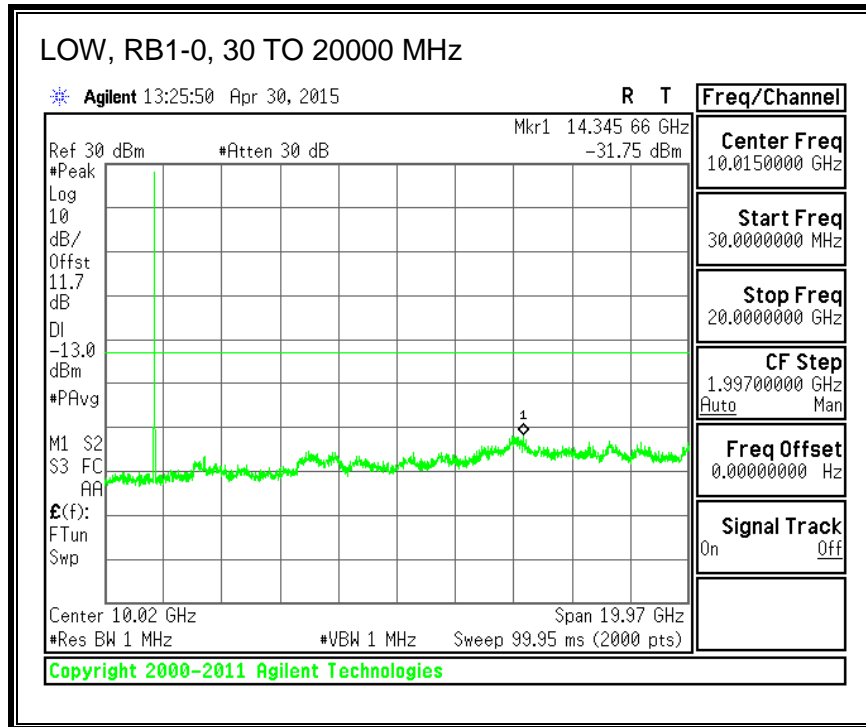


**16QAM, (10.0 MHz BAND WIDTH)**

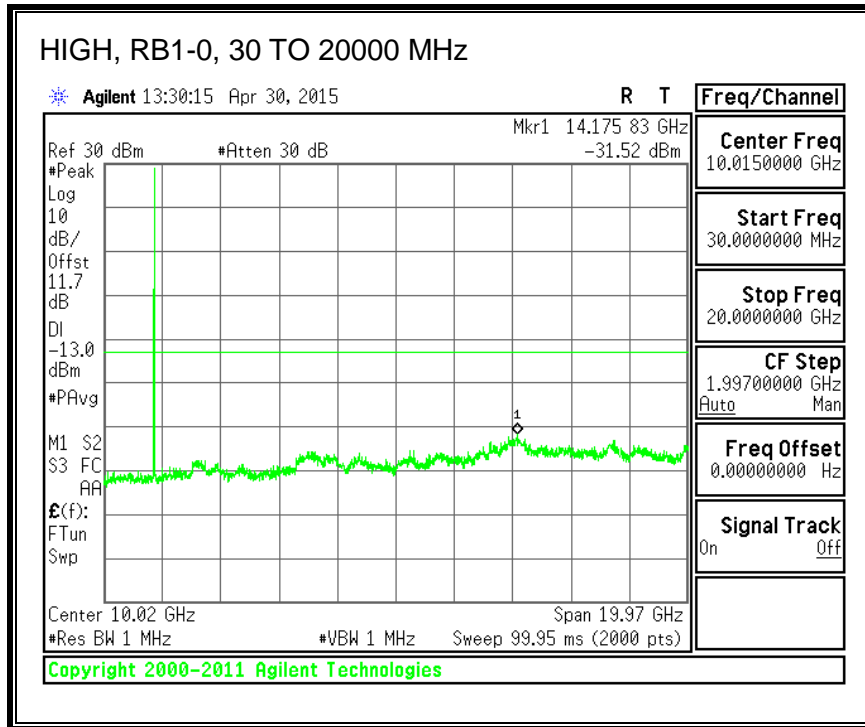




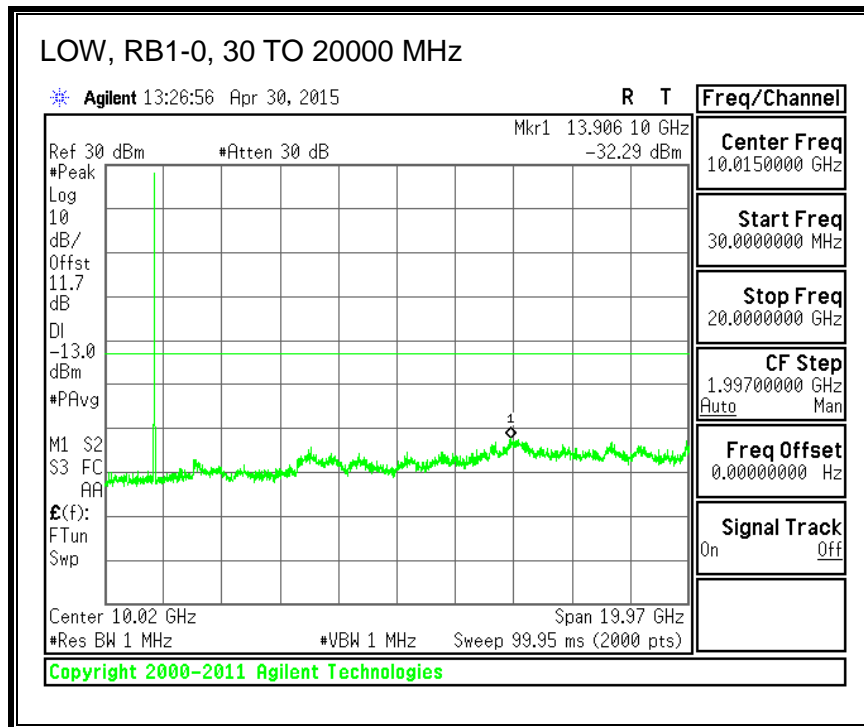
**QPSK, (15.0 MHz BAND WIDTH)**

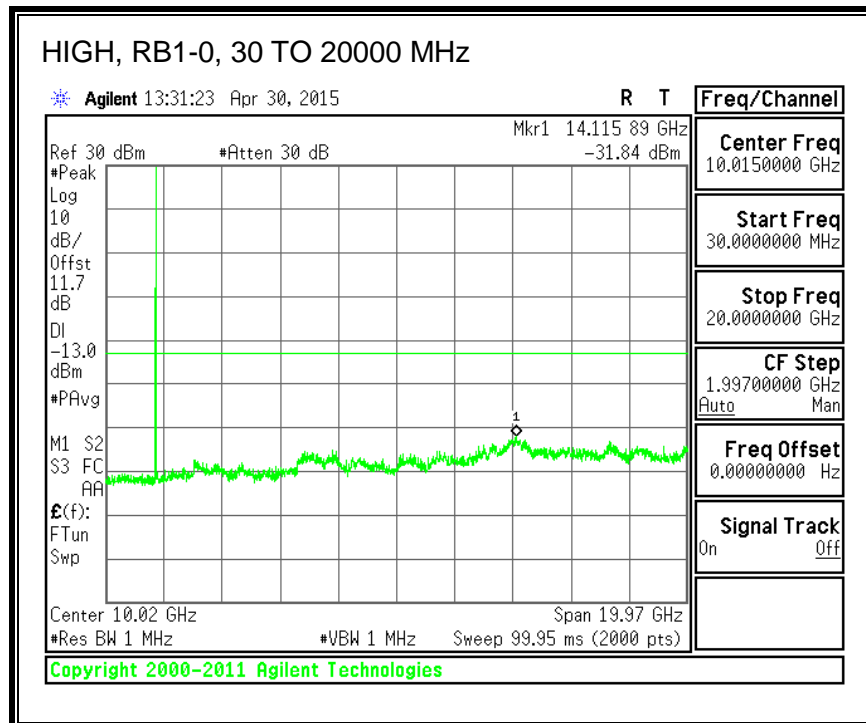
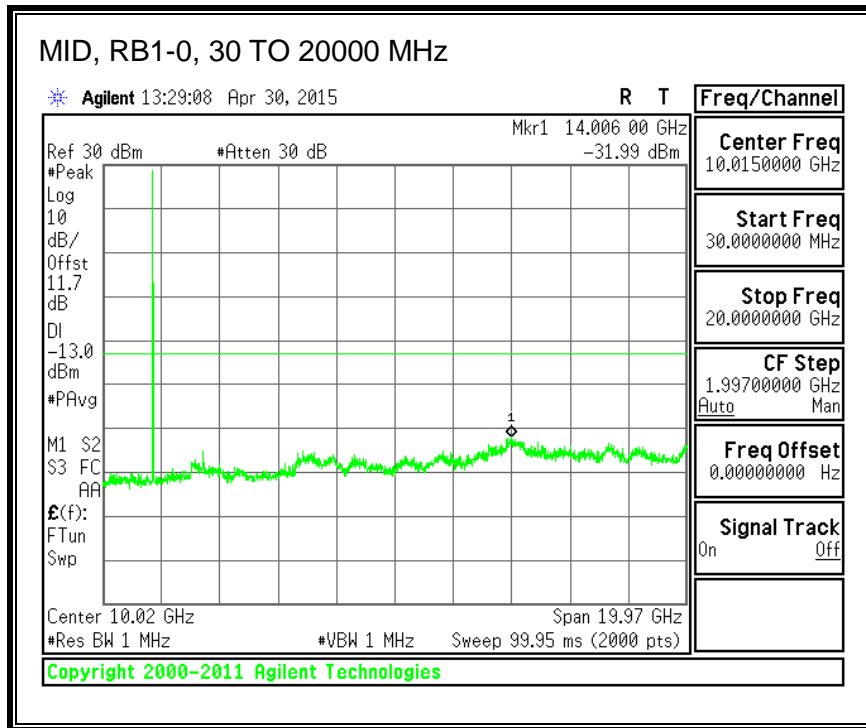




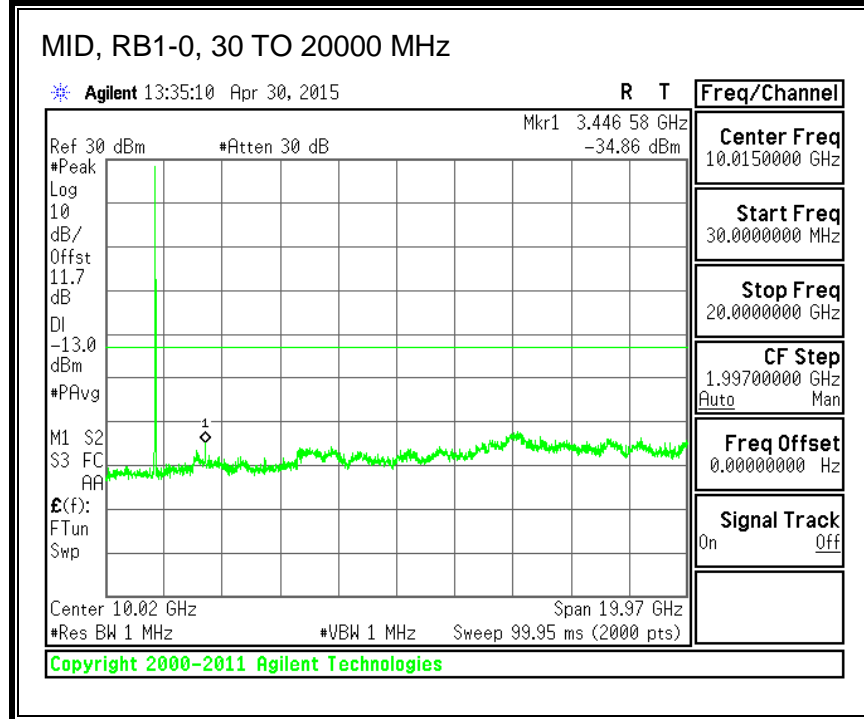
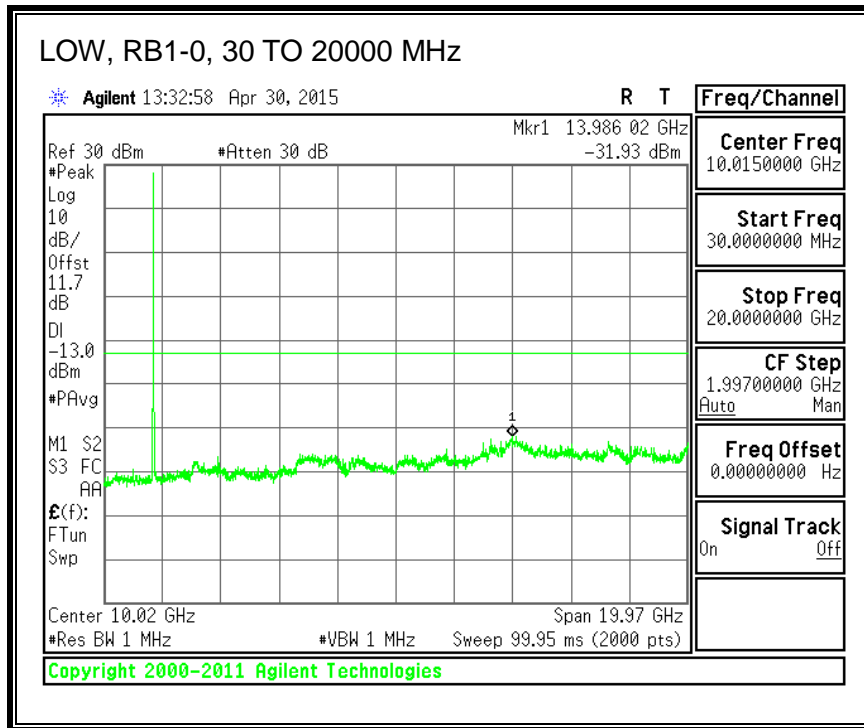


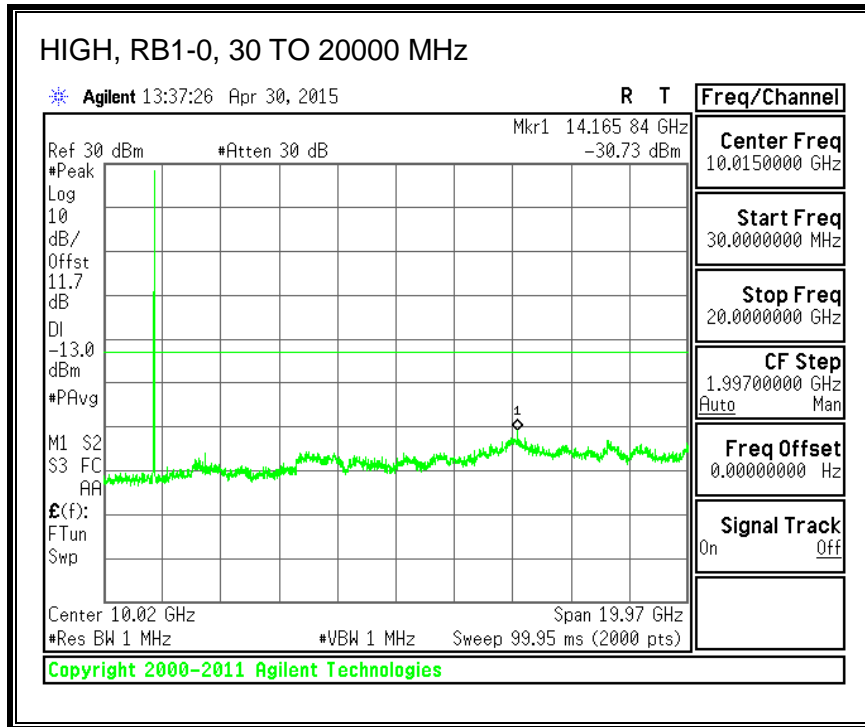
**16QAM, (15.0 MHz BAND WIDTH)**



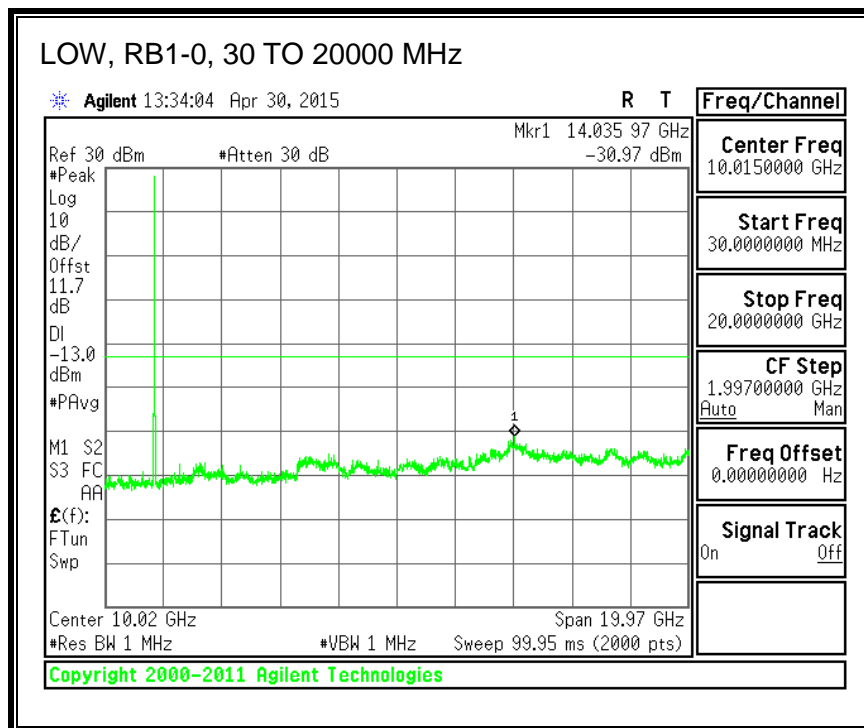


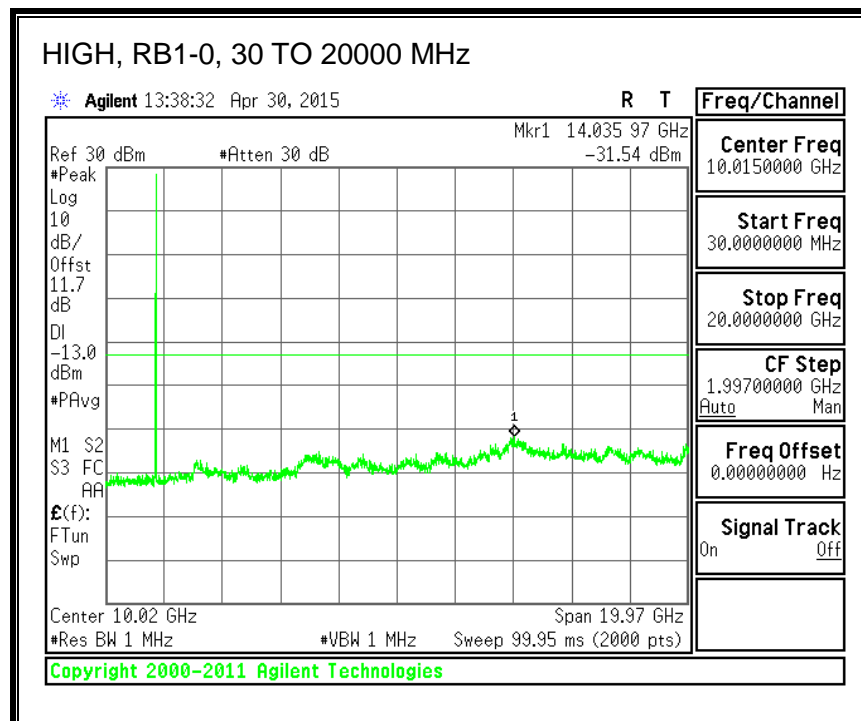
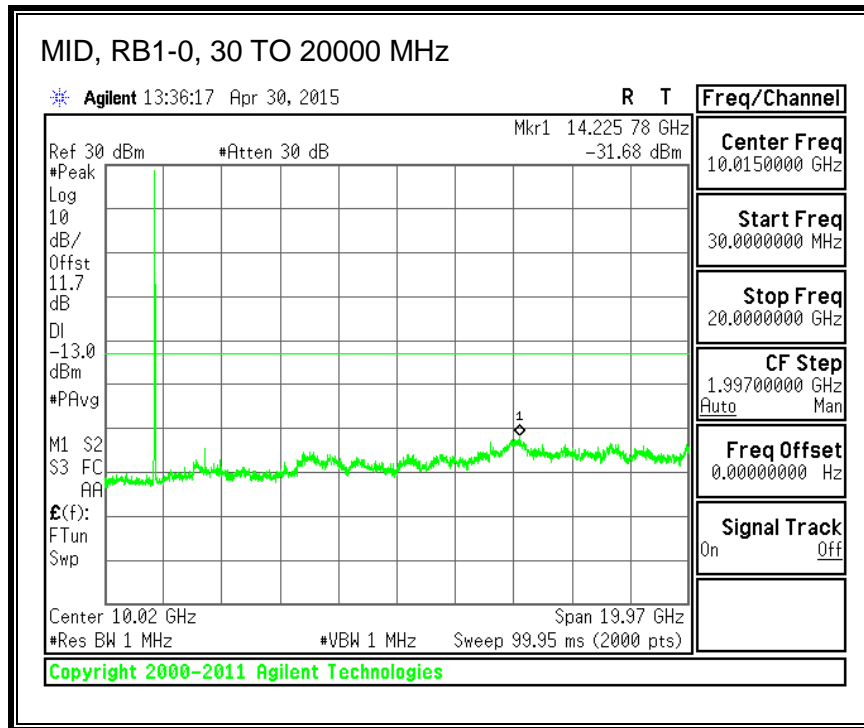
**QPSK, (20.0 MHz BAND WIDTH)**





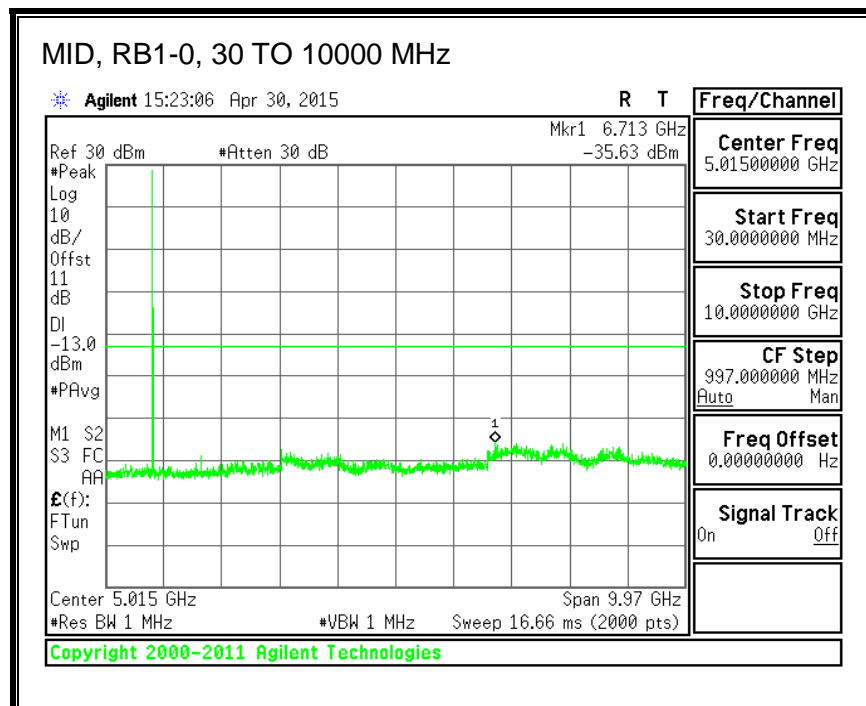
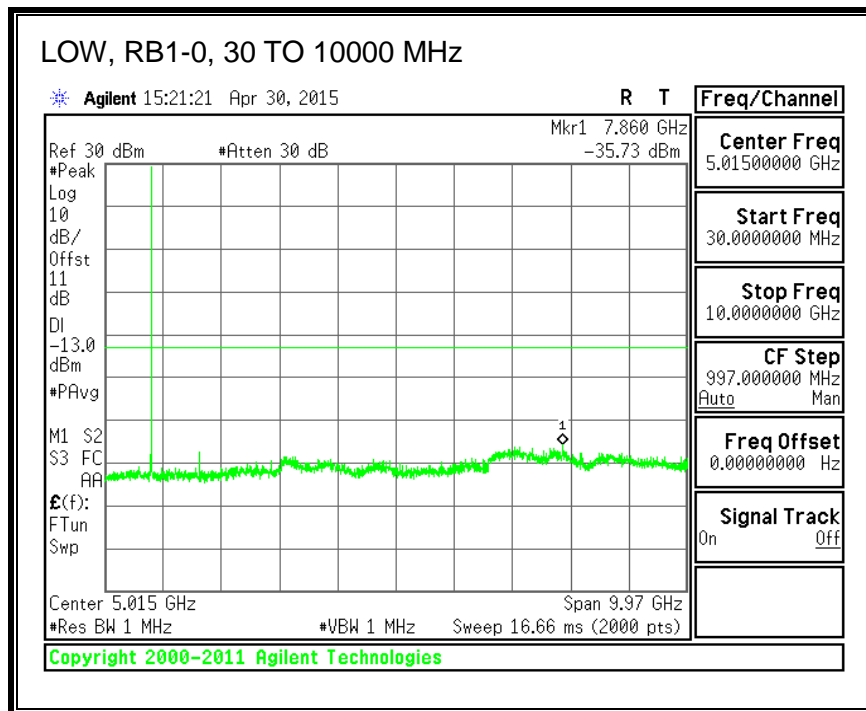
**16QAM, (20.0 MHz BAND WIDTH)**

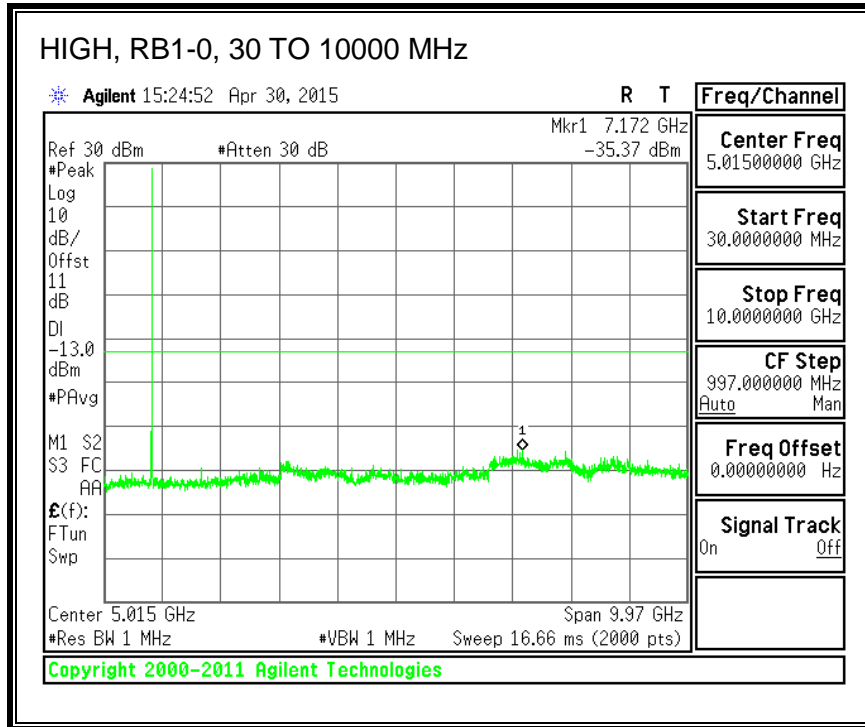




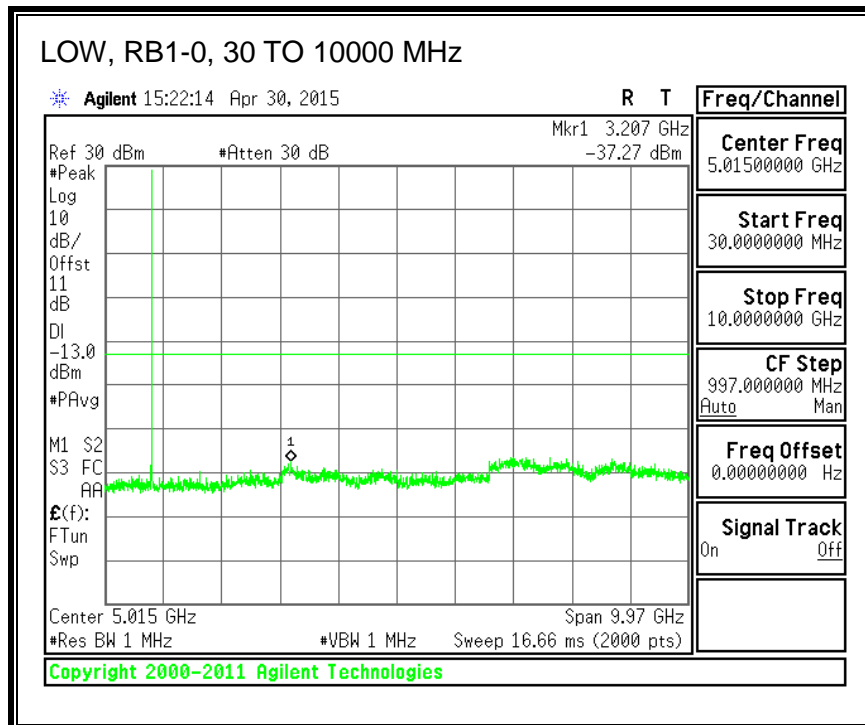
### 8.5.3. LTE BAND 5

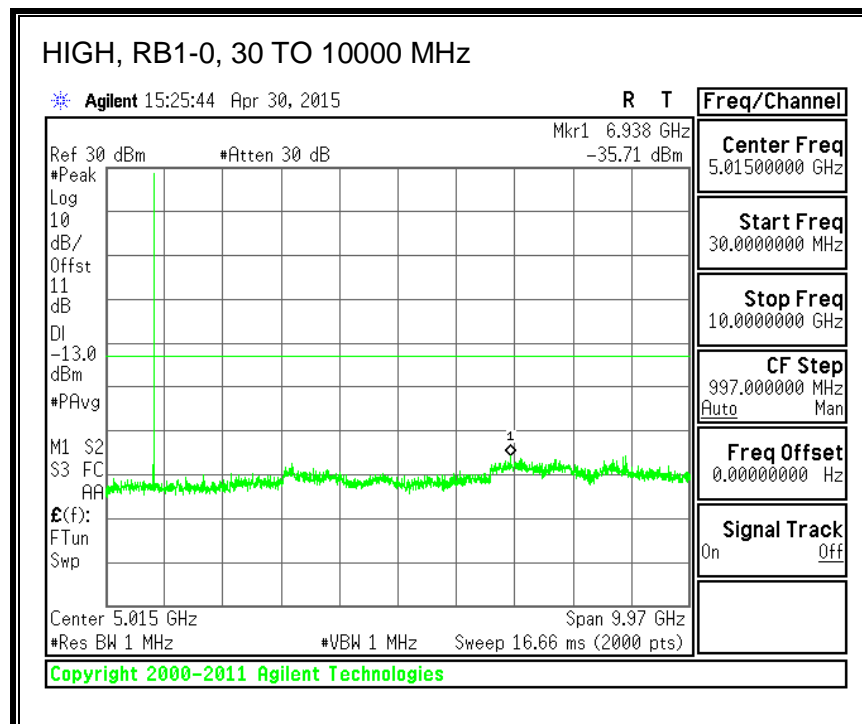
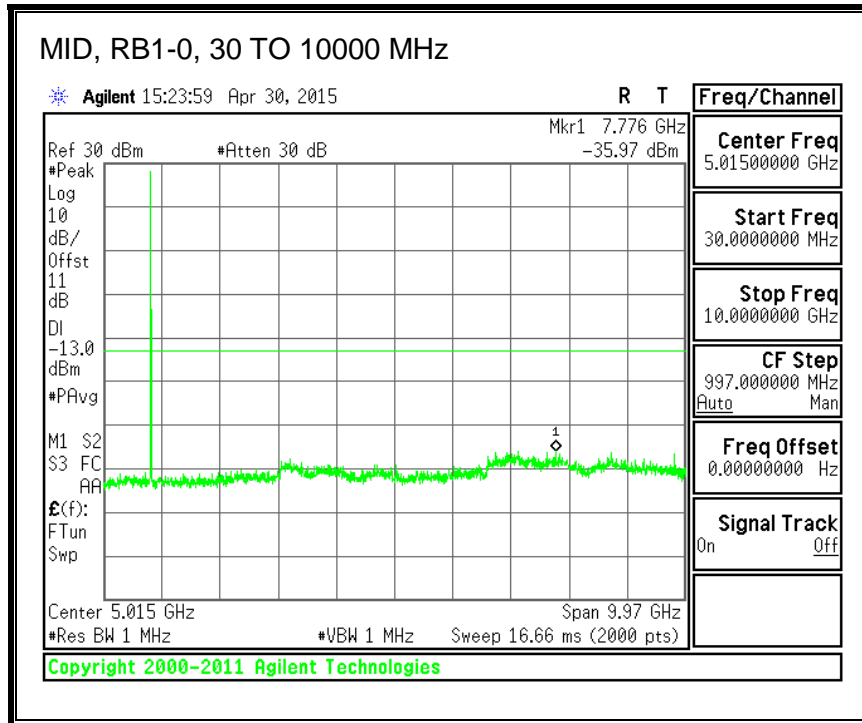
#### QPSK, (1.4 MHz BAND WIDTH)





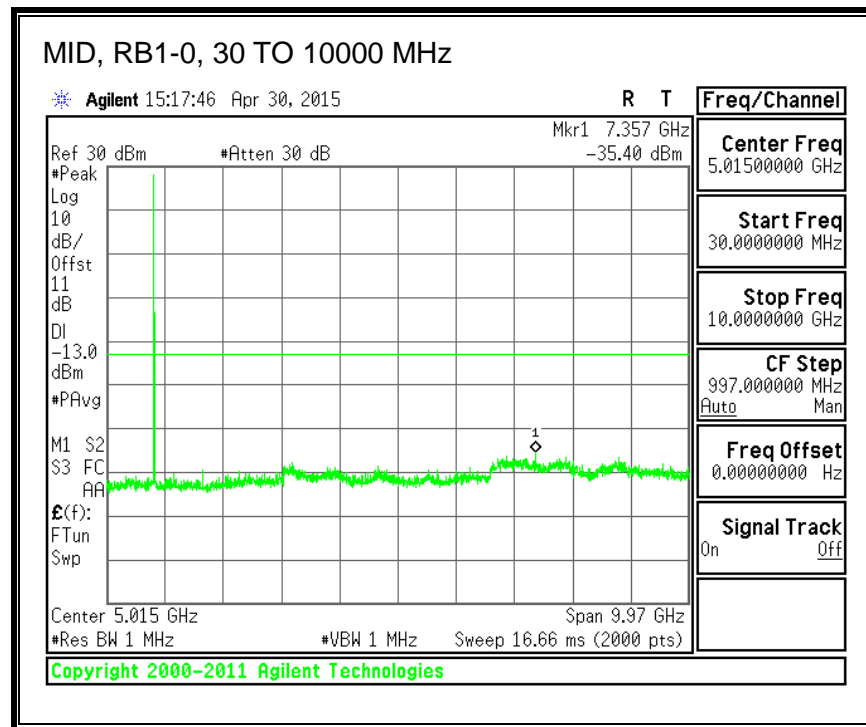
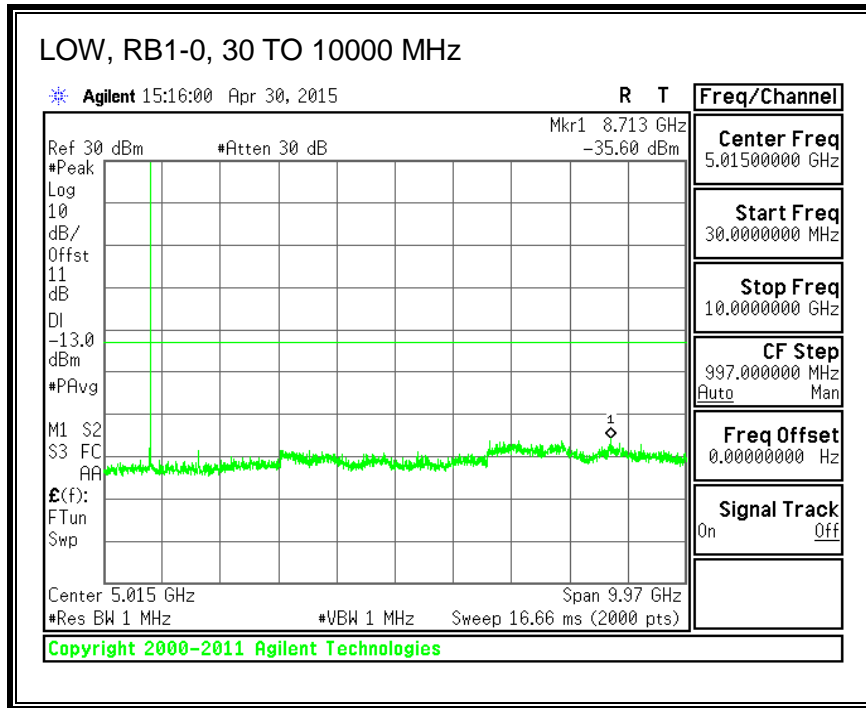
**16QAM, (1.4 MHz BAND WIDTH)**

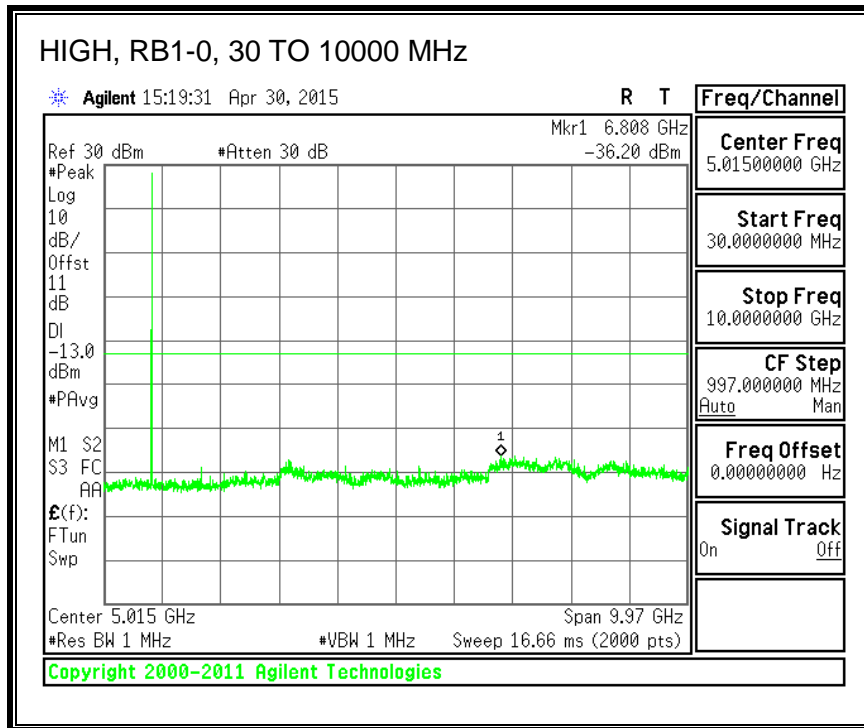




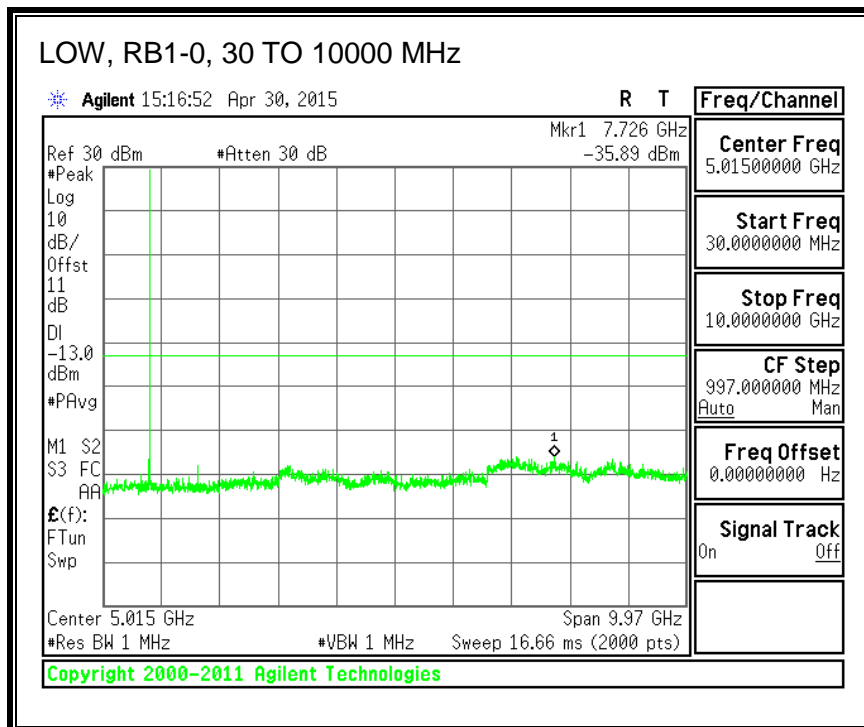


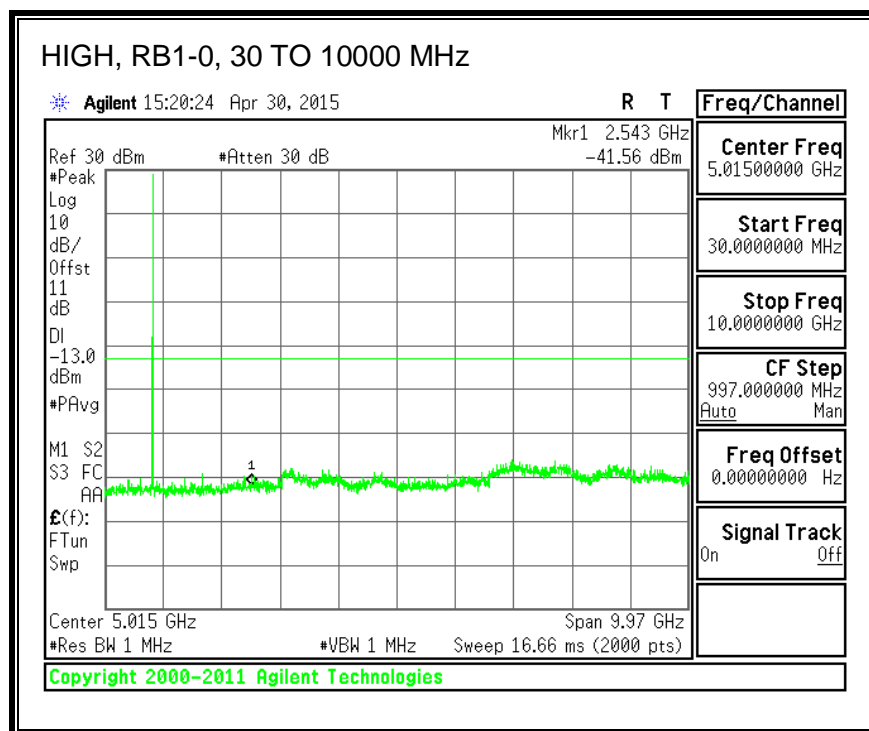
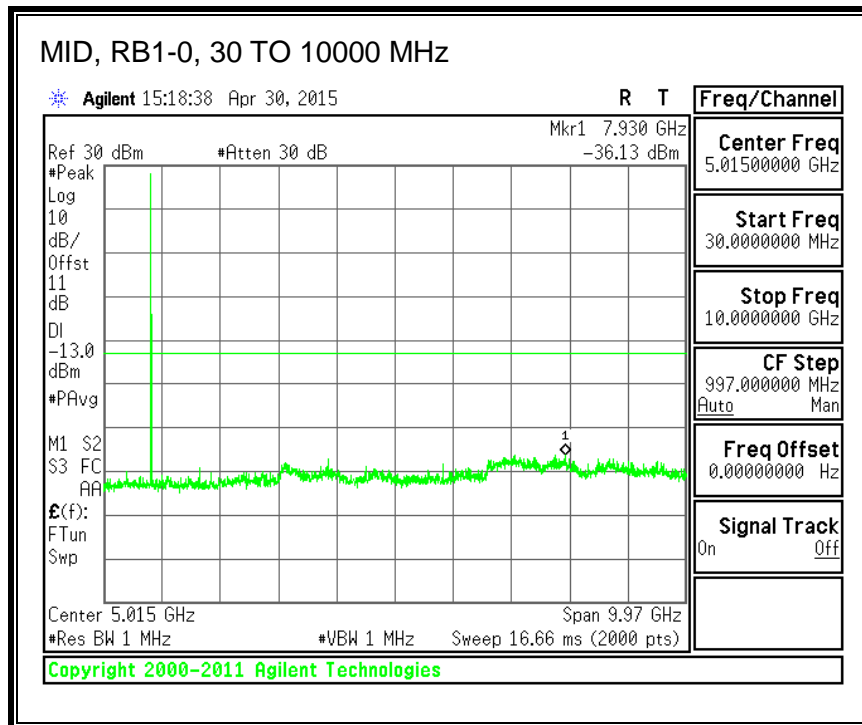
**QPSK, (3.0 MHz BAND WIDTH)**



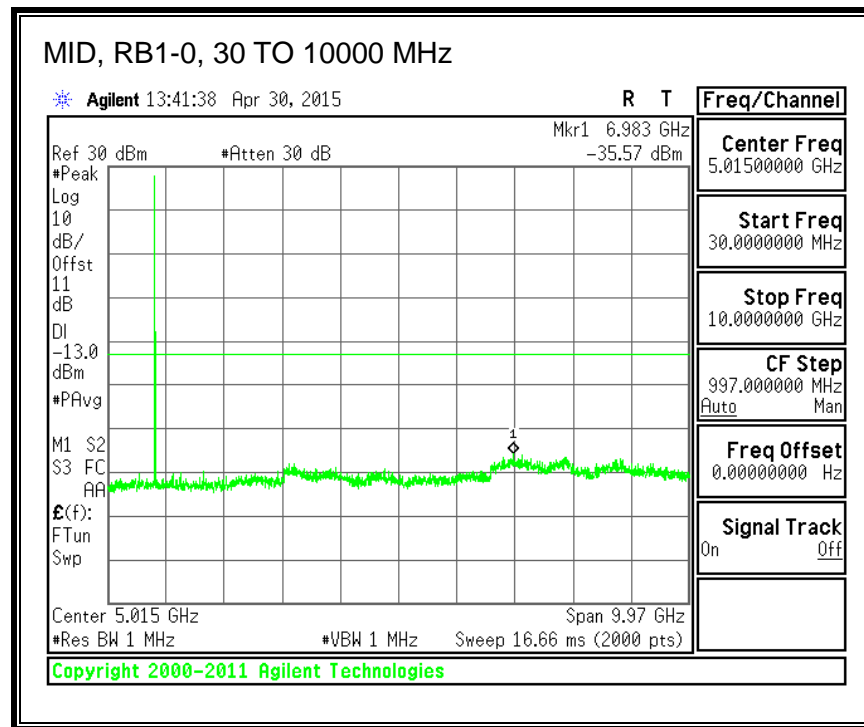
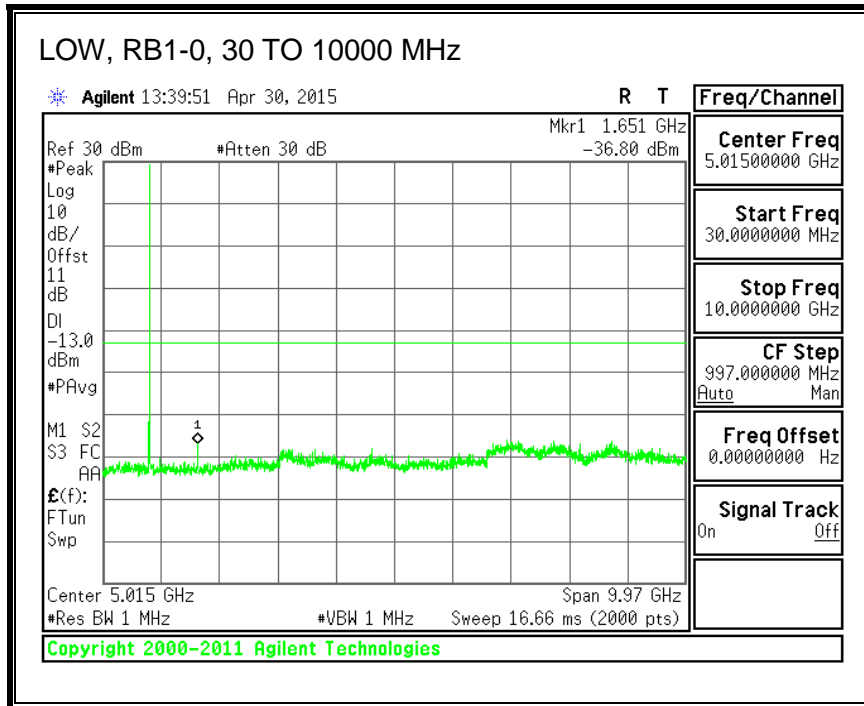


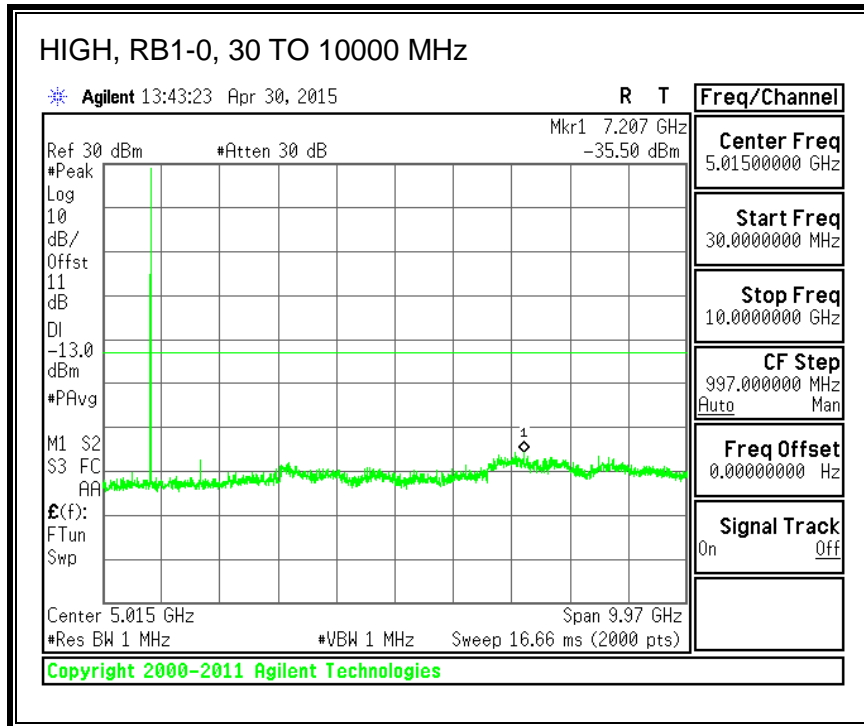
**16QAM, (3.0 MHz BAND WIDTH)**



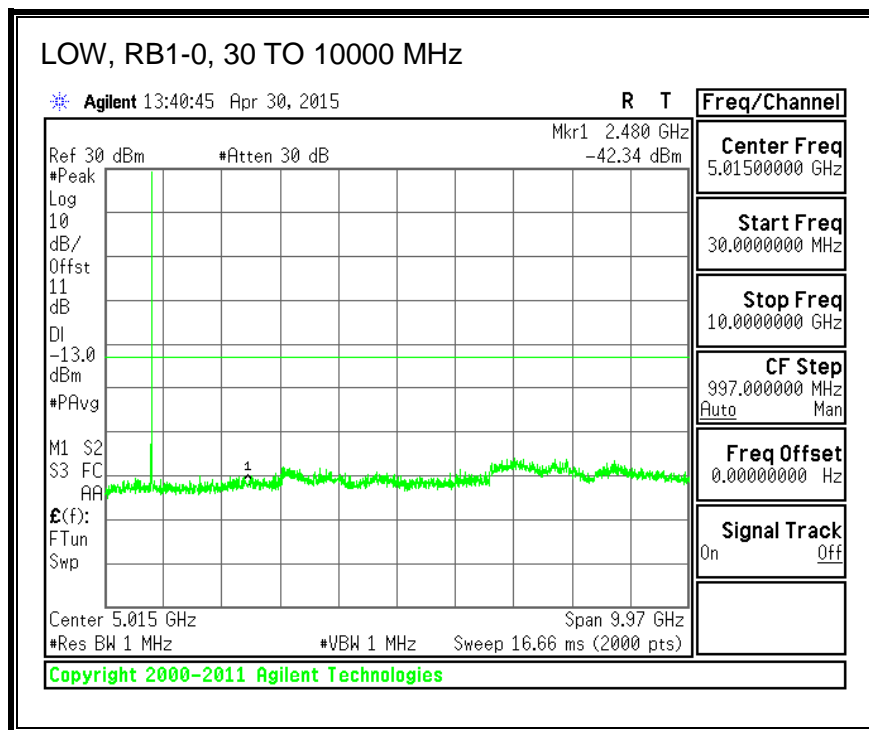


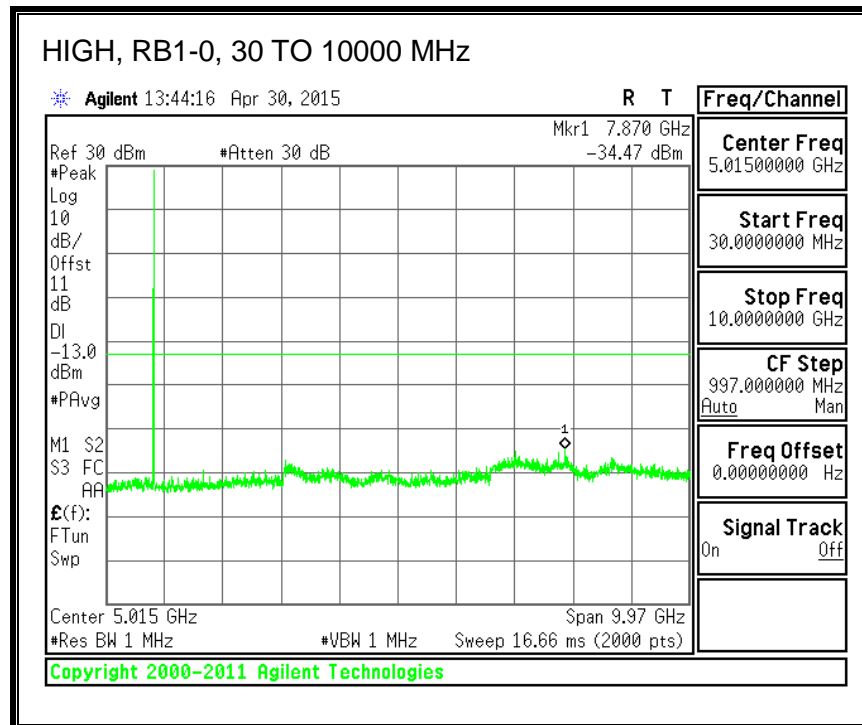
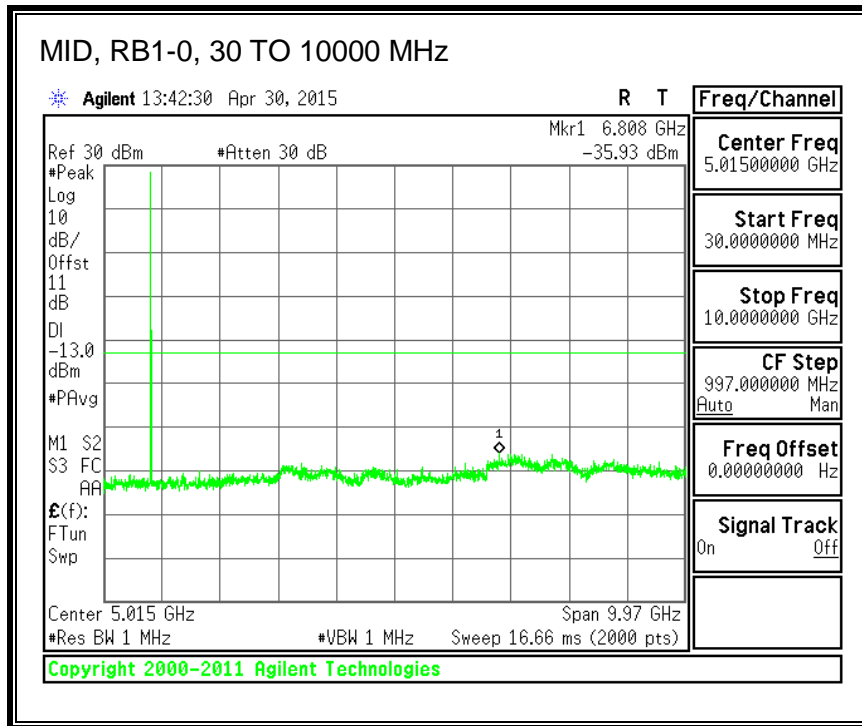
**QPSK, (5.0 MHz BAND WIDTH)**



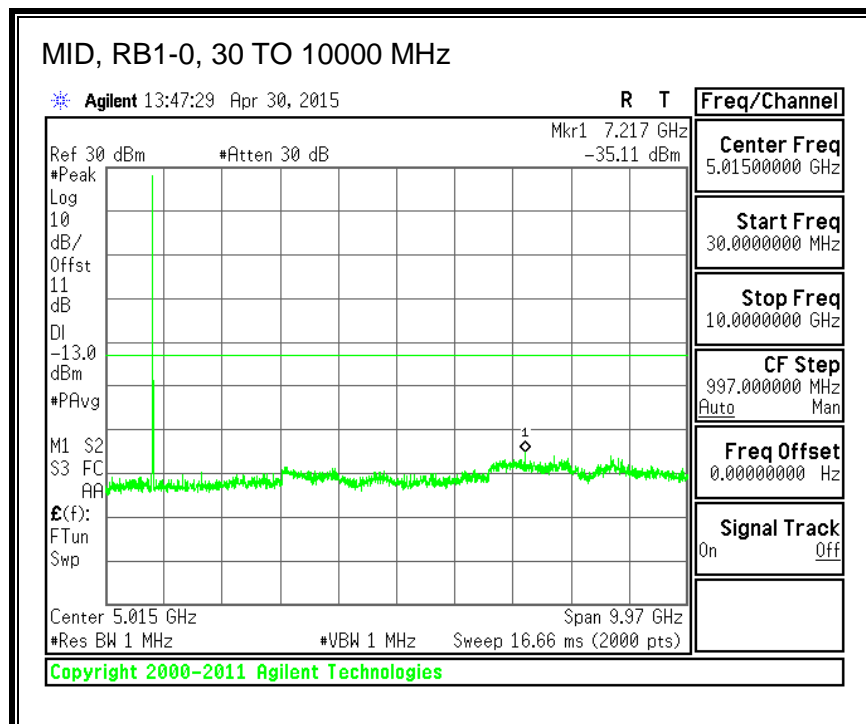
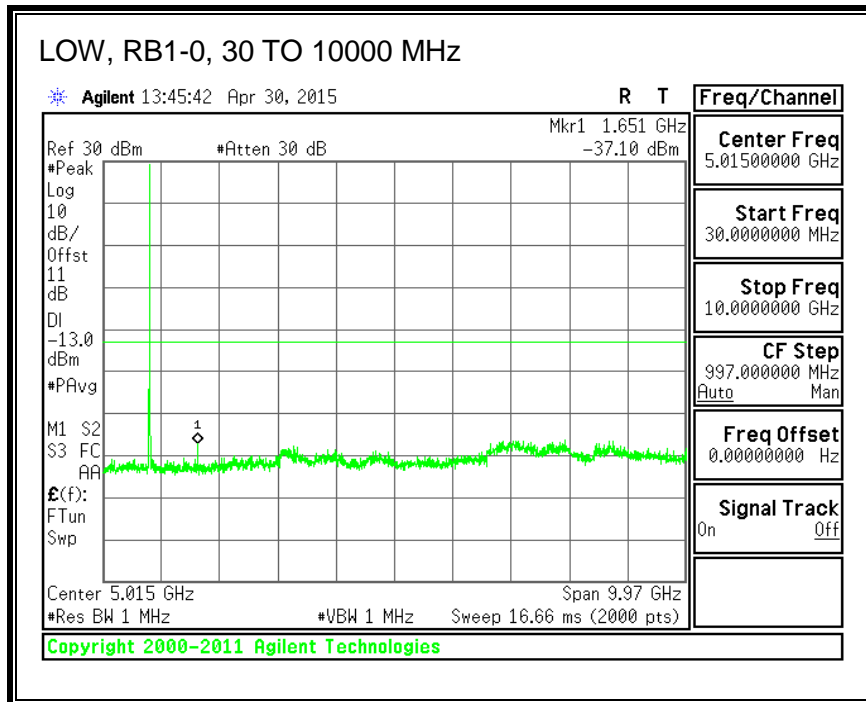


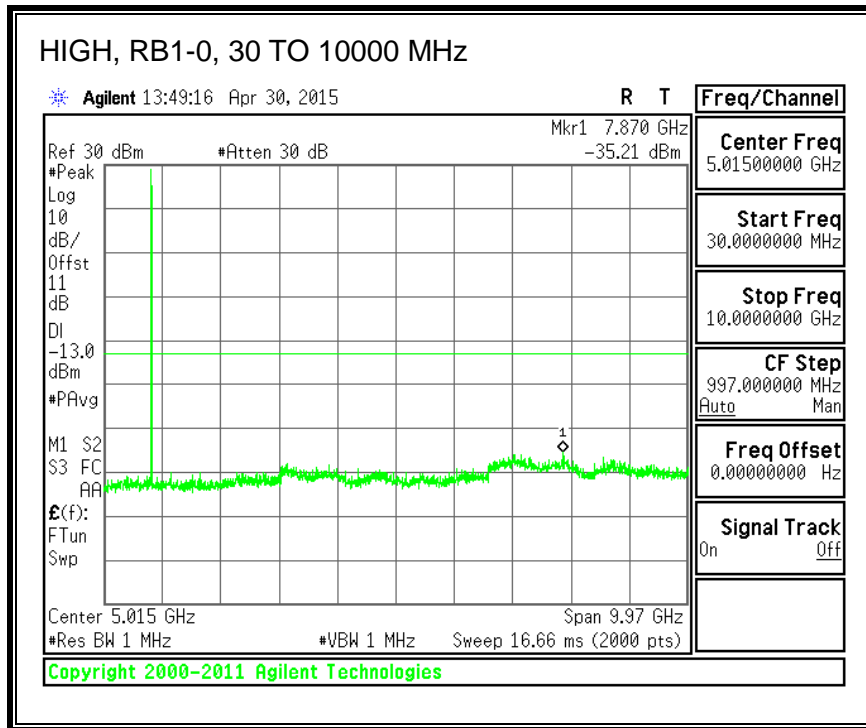
**16QAM, (5.0 MHz BAND WIDTH)**



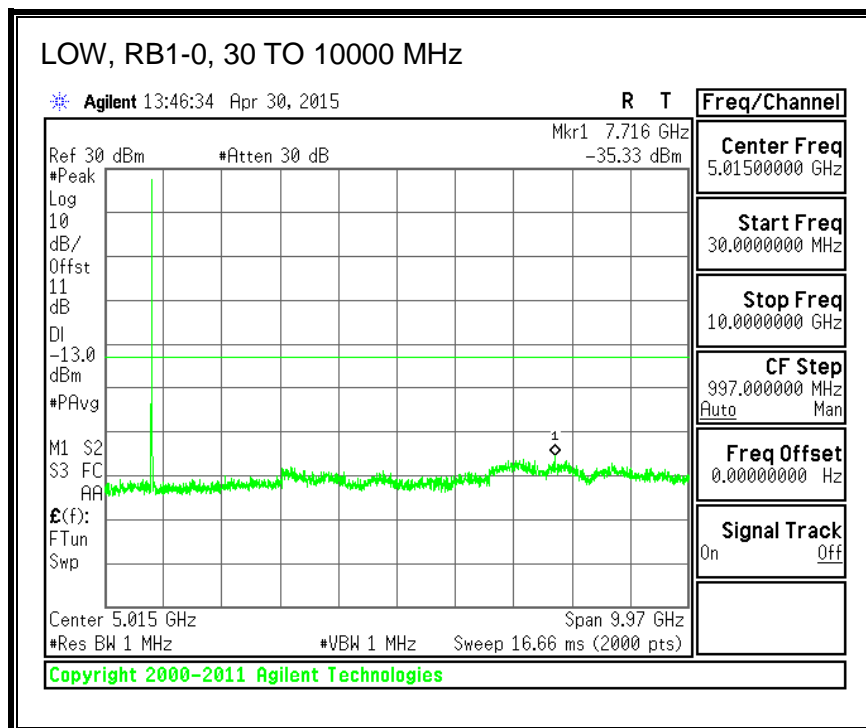


**QPSK, (10.0 MHz BAND WIDTH)**

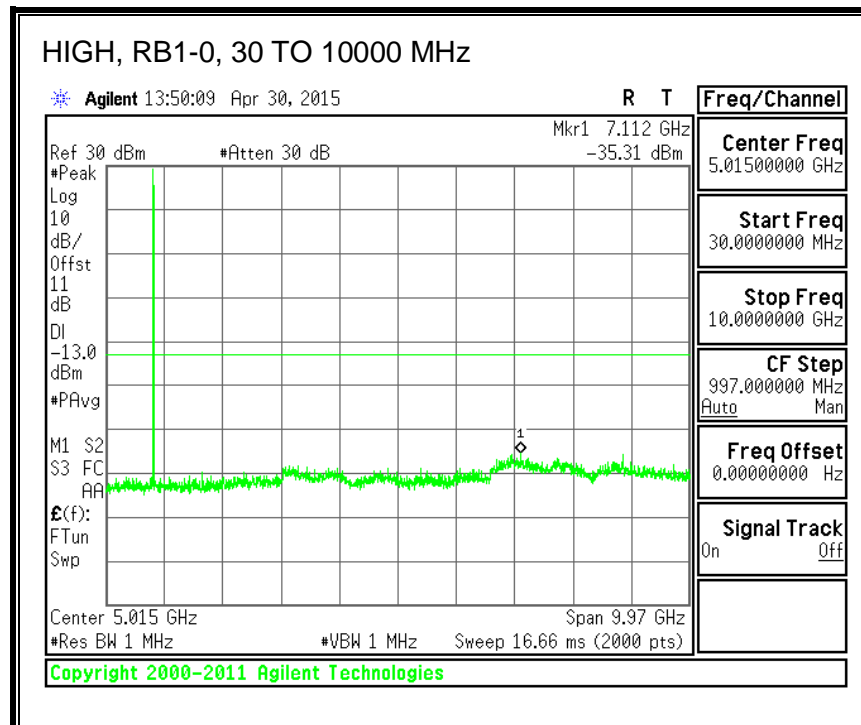
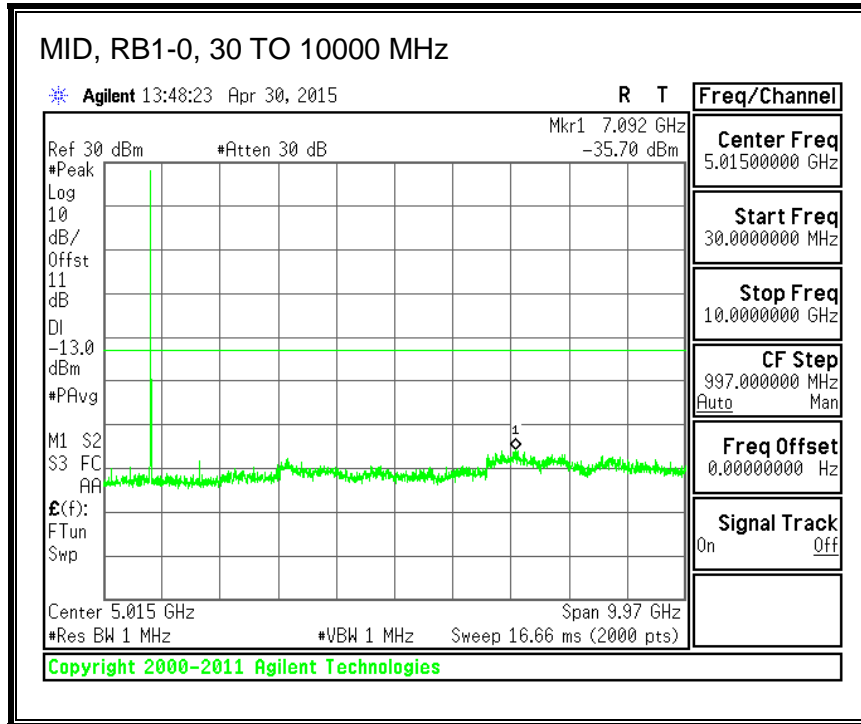




**16QAM, (10.0 MHz BAND WIDTH)**

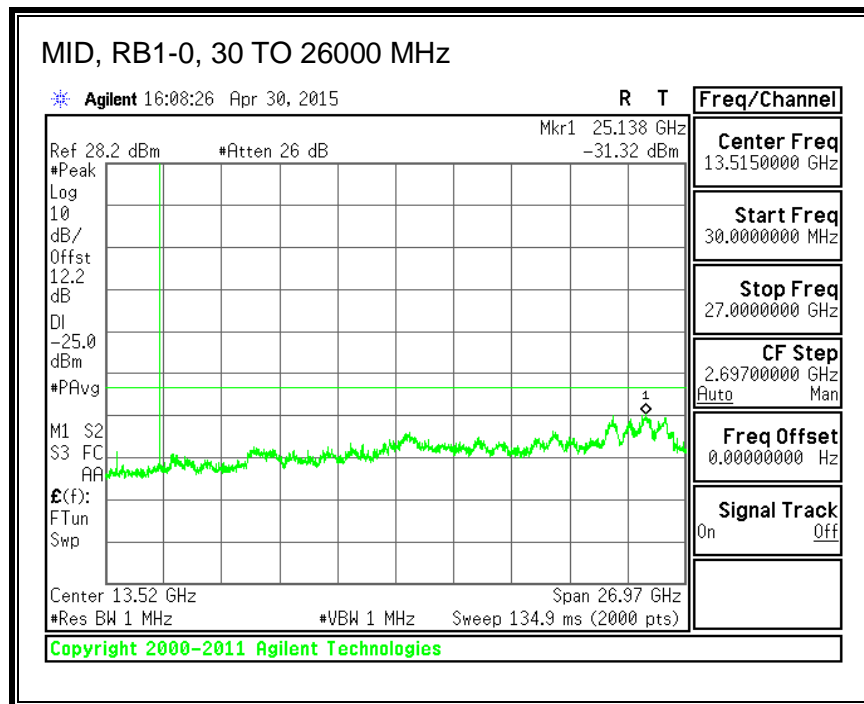
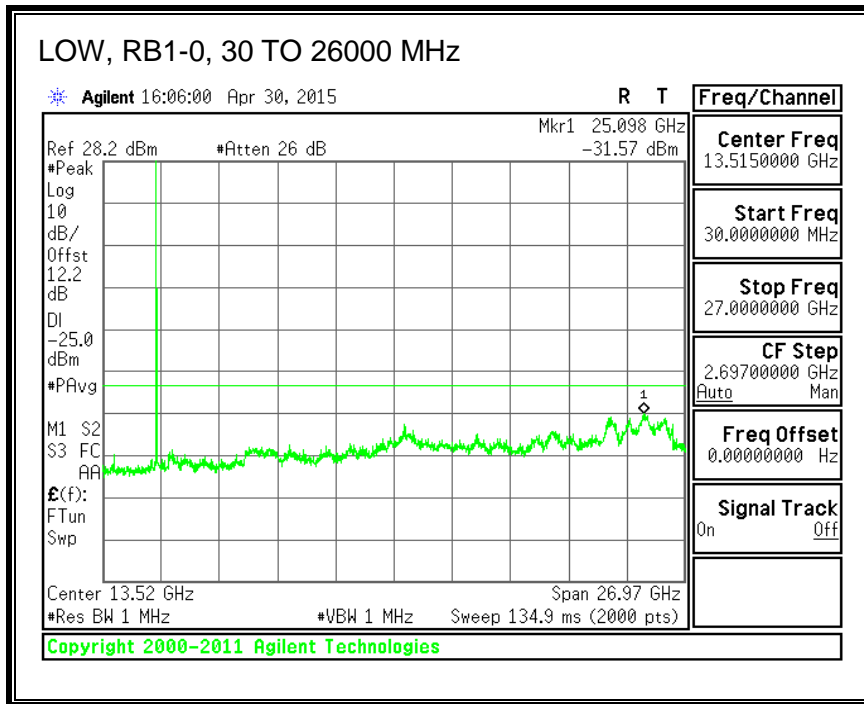


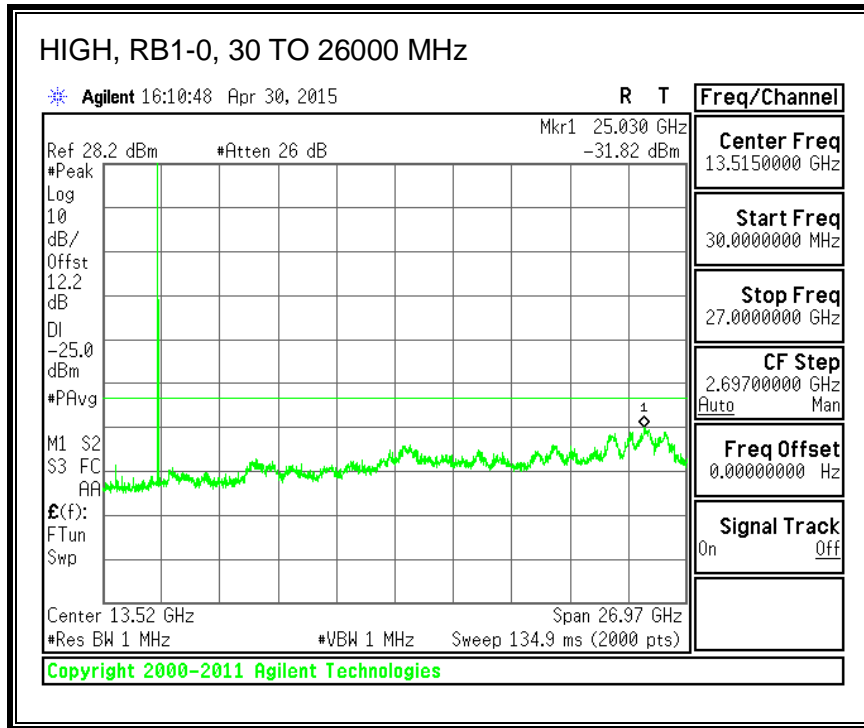




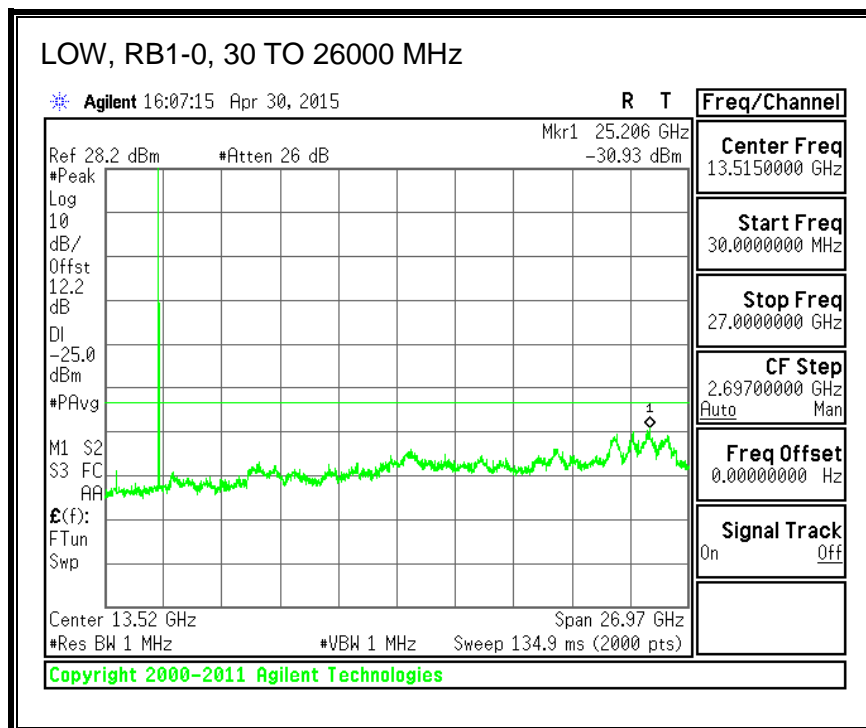
### 8.5.4. LTE BAND 7

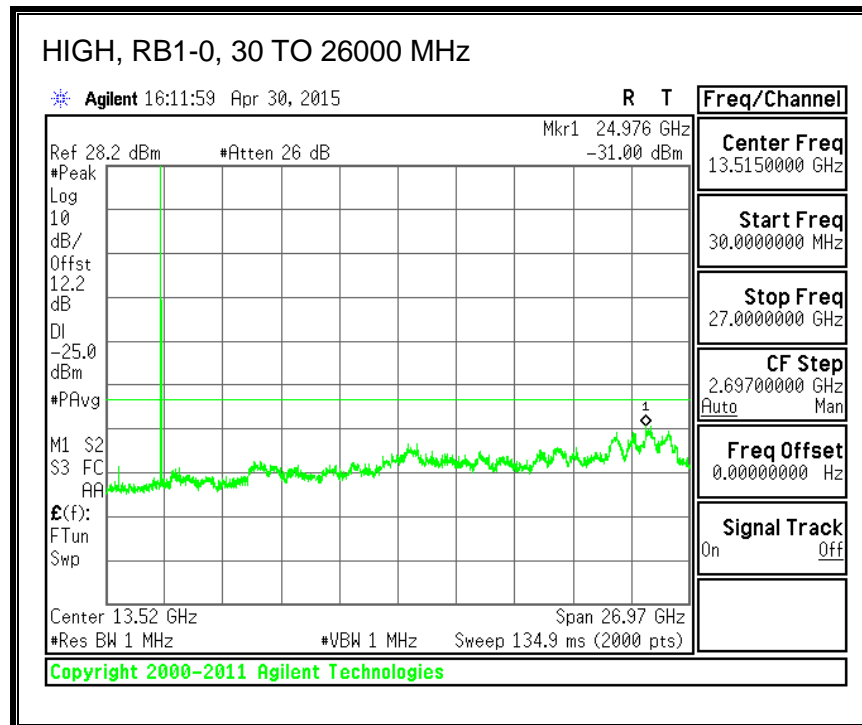
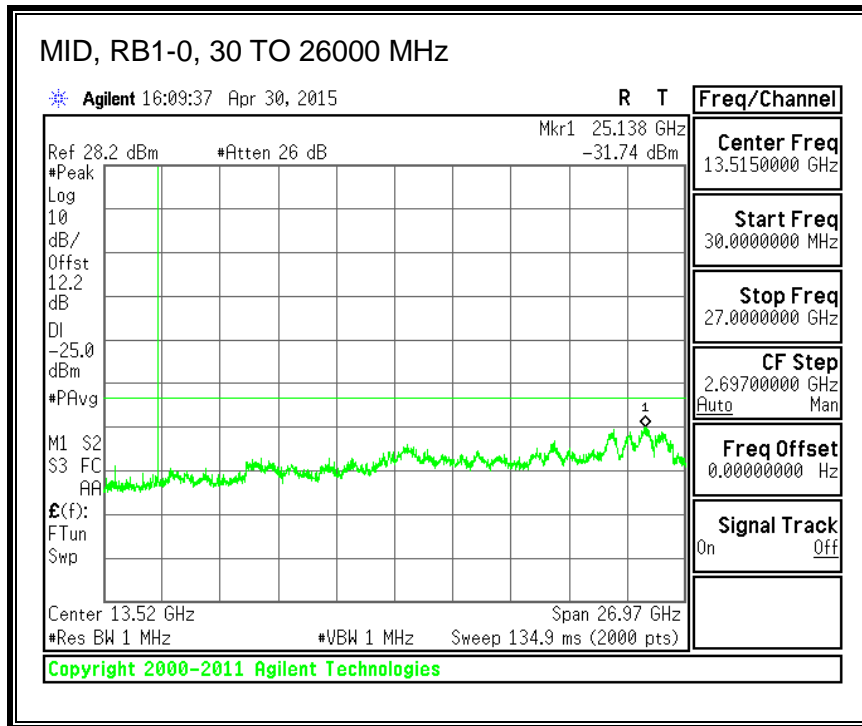
#### QPSK, (5.0 MHz BAND WIDTH)



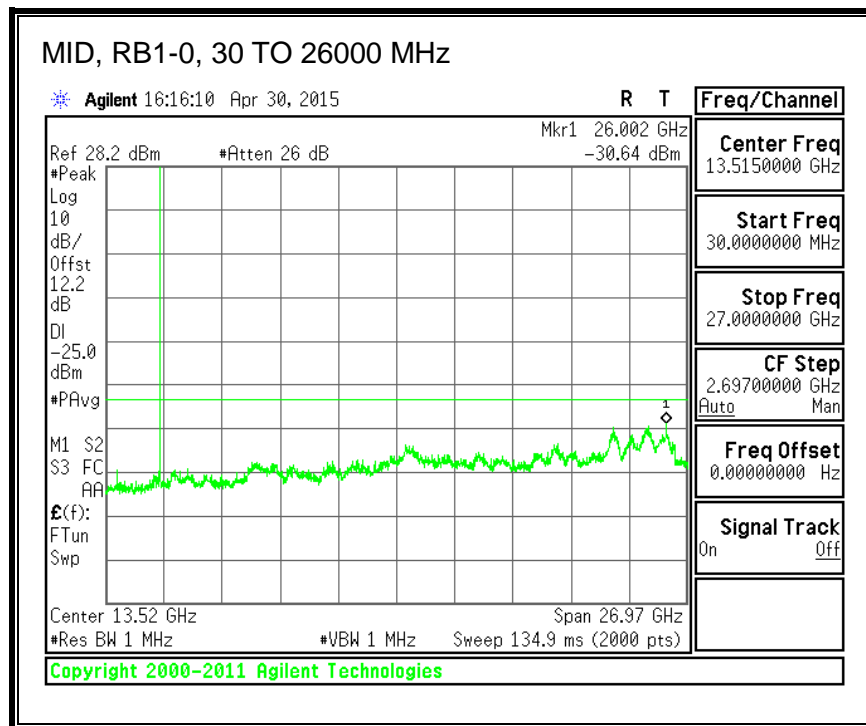
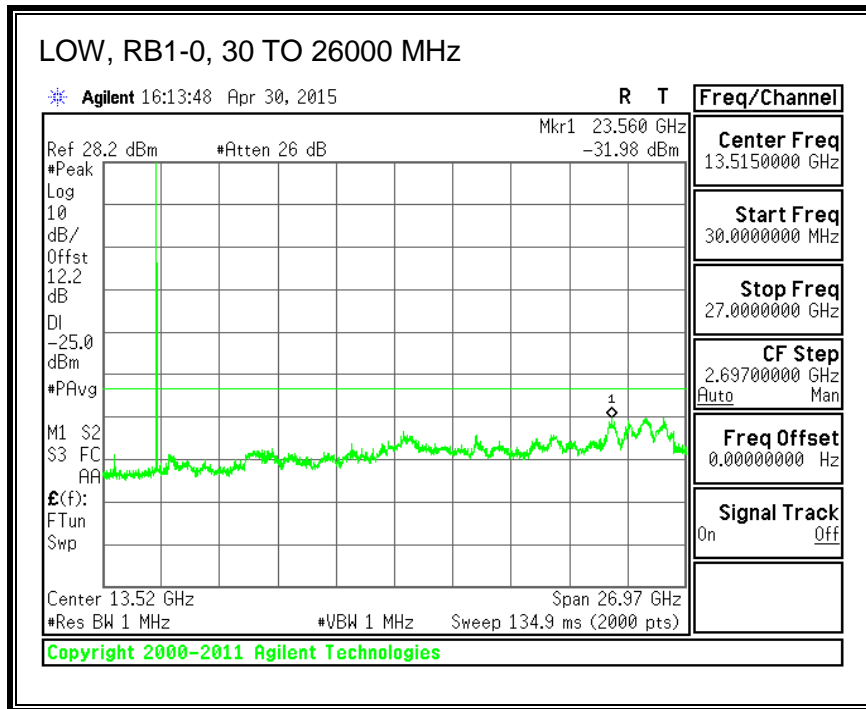


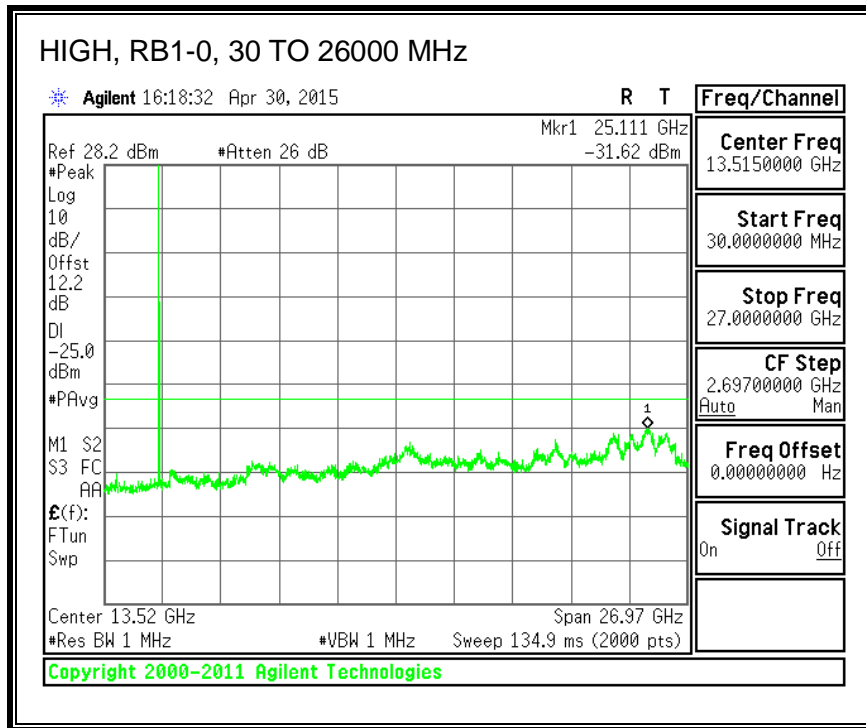
**16QAM, (5.0 MHz BAND WIDTH)**



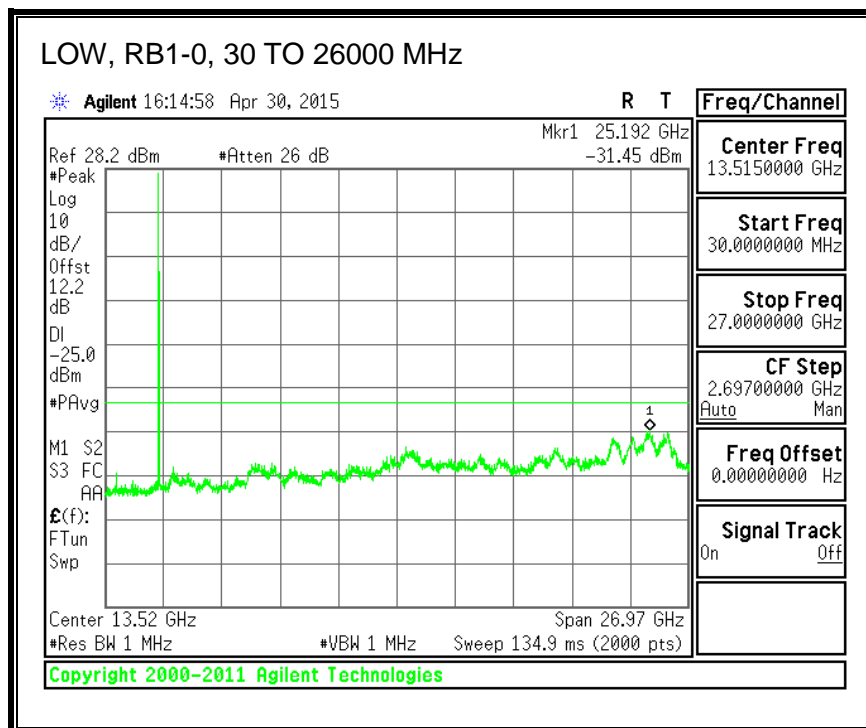


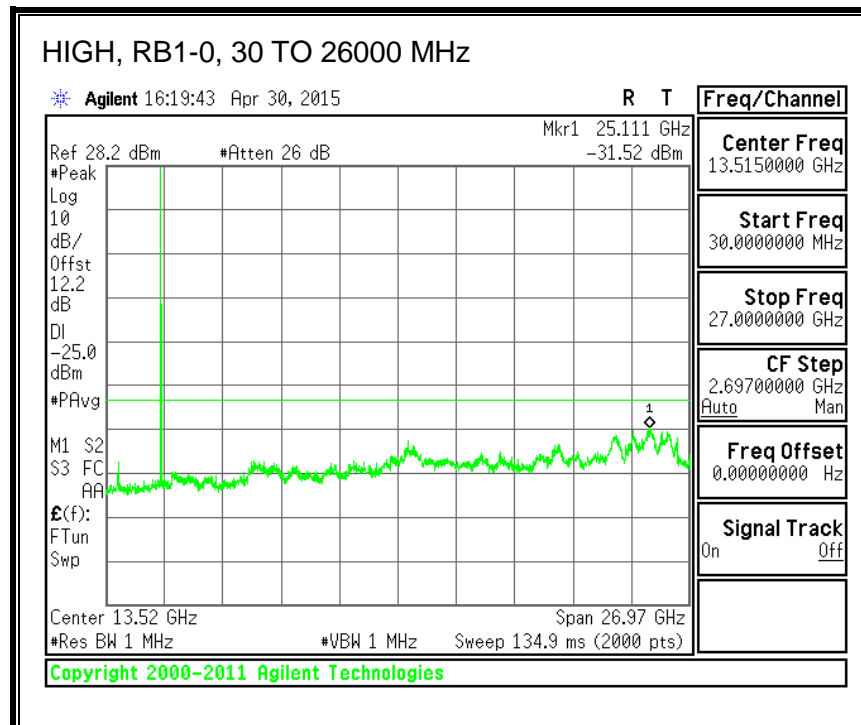
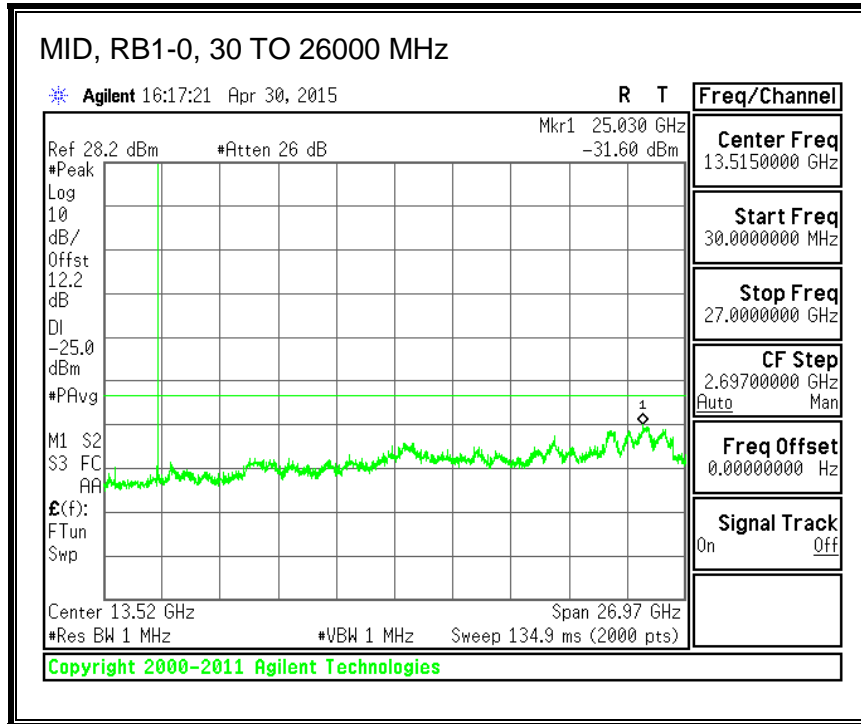
**QPSK, (10.0 MHz BAND WIDTH)**



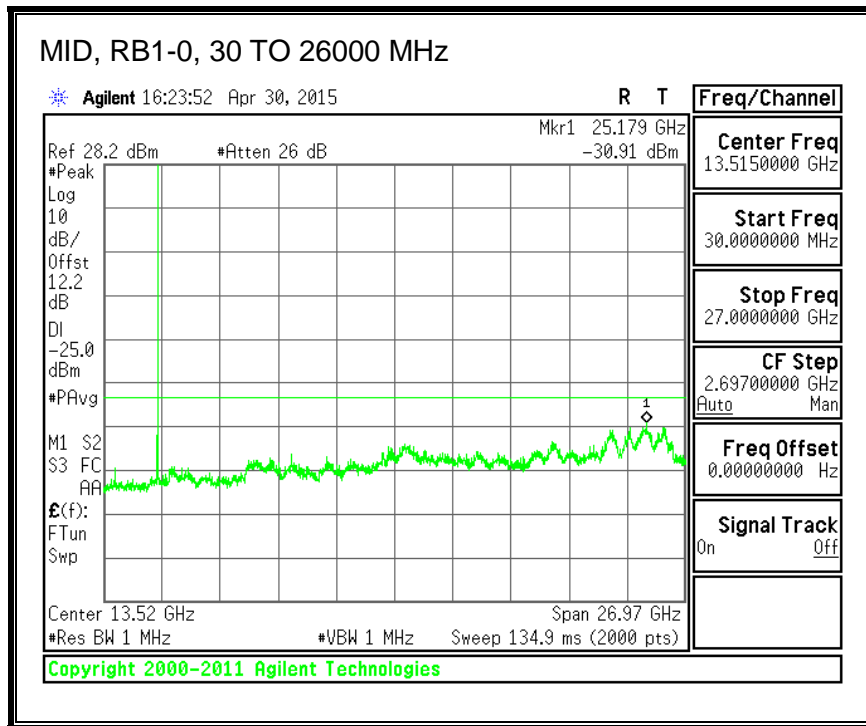
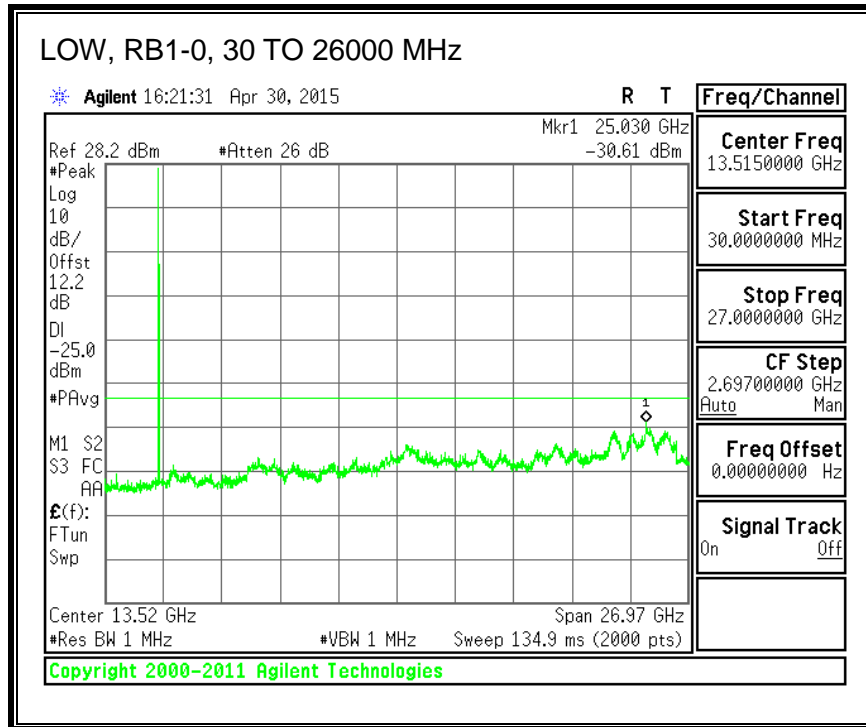


**16QAM, (10.0 MHz BAND WIDTH)**

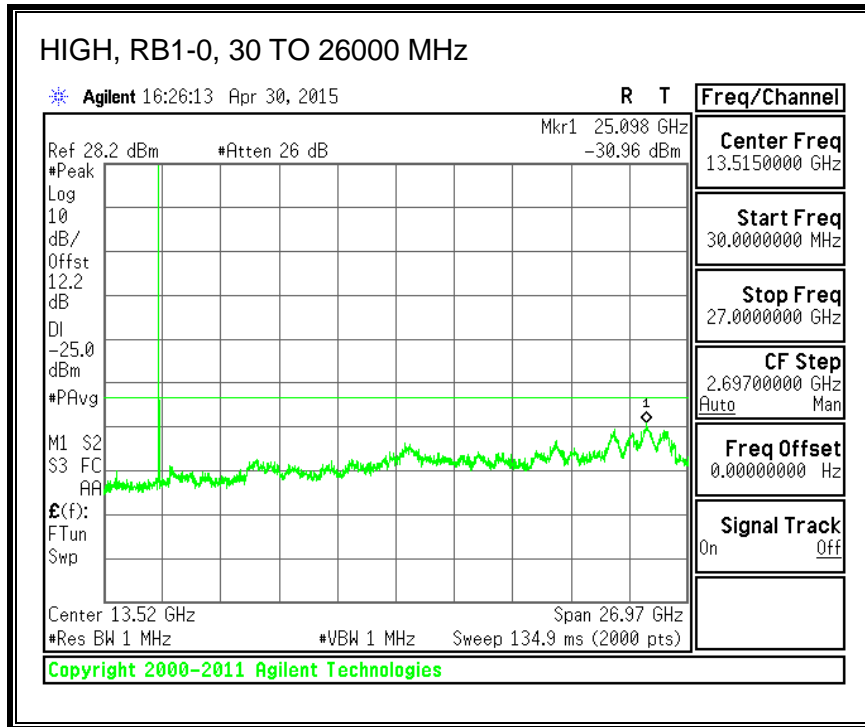




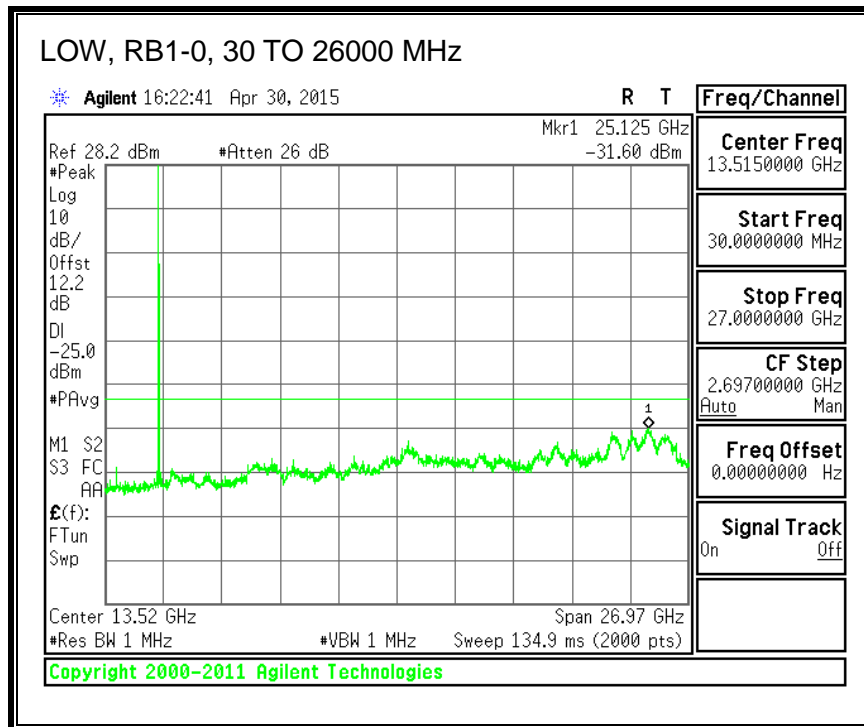
**QPSK, (15.0 MHz BAND WIDTH)**

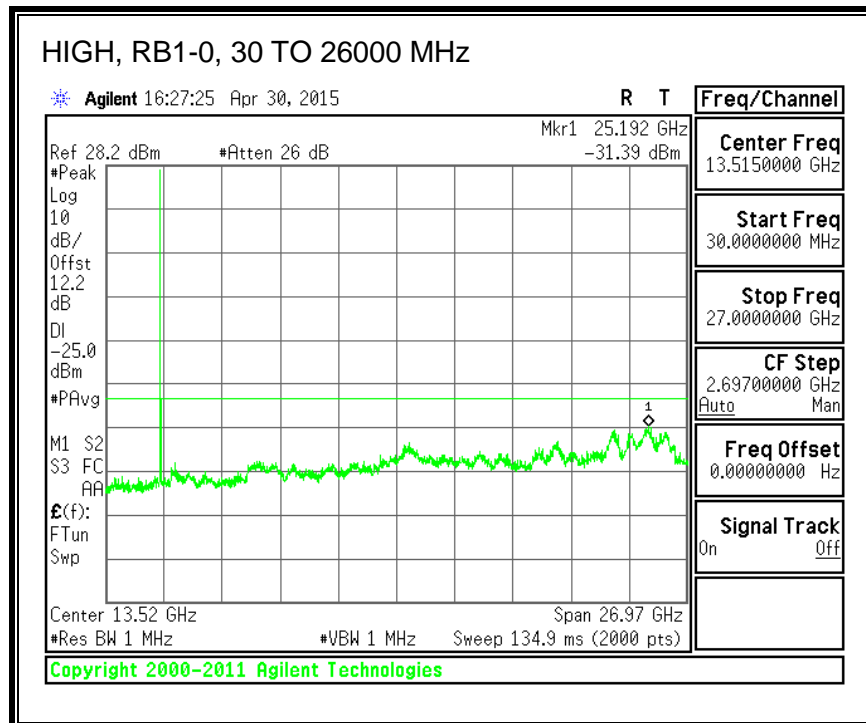
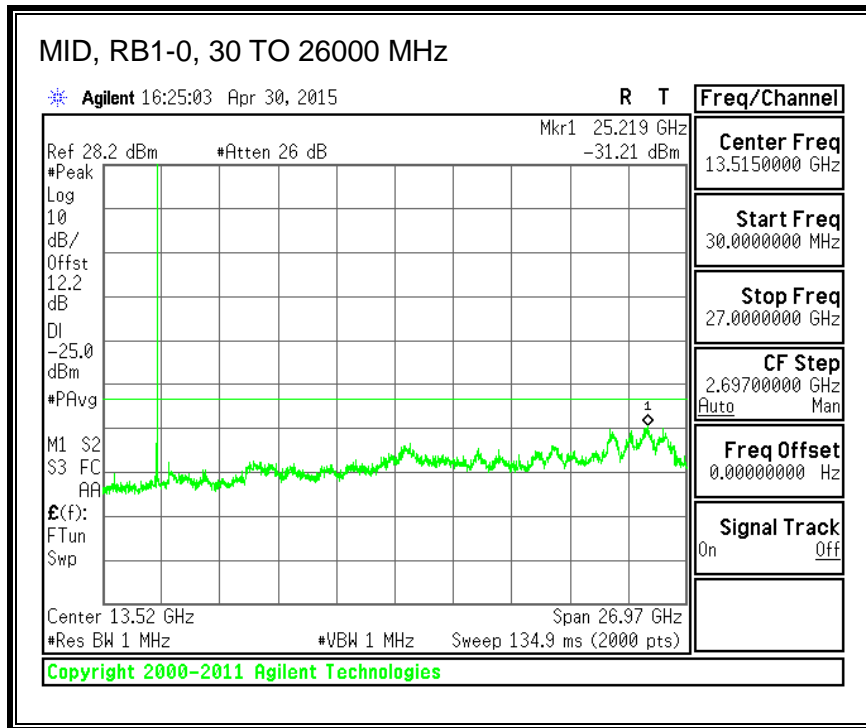




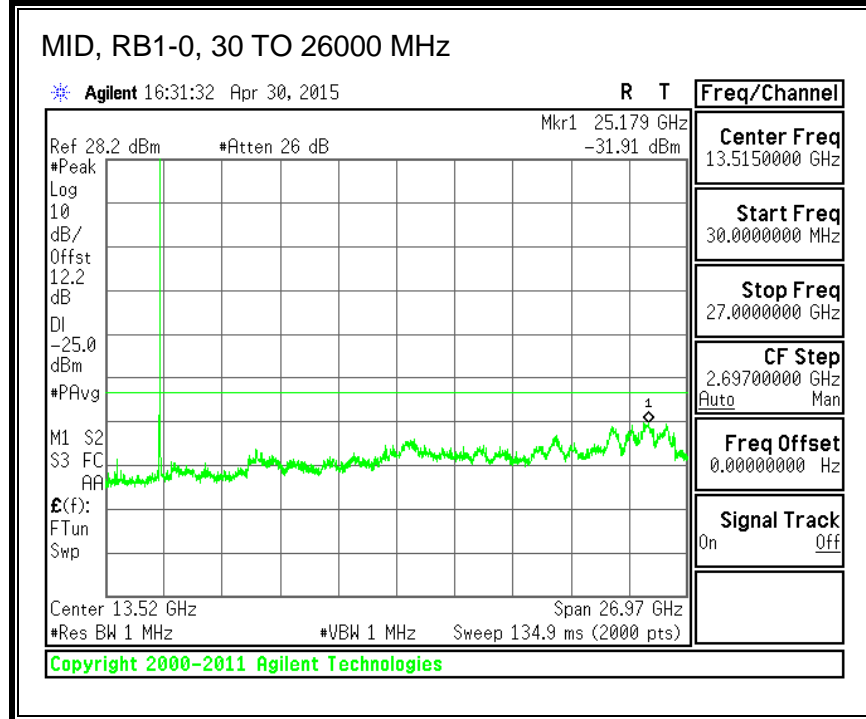
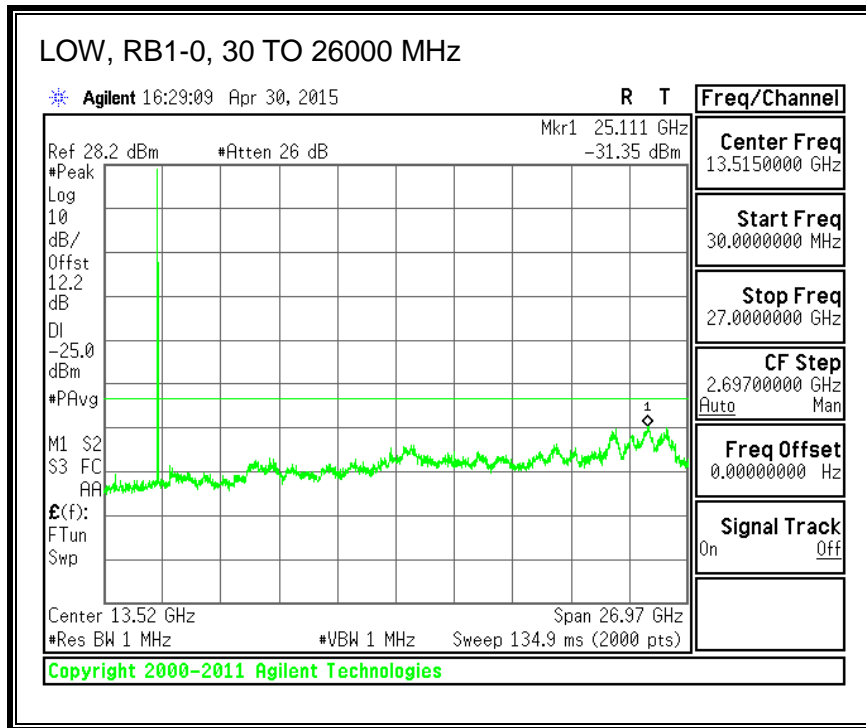


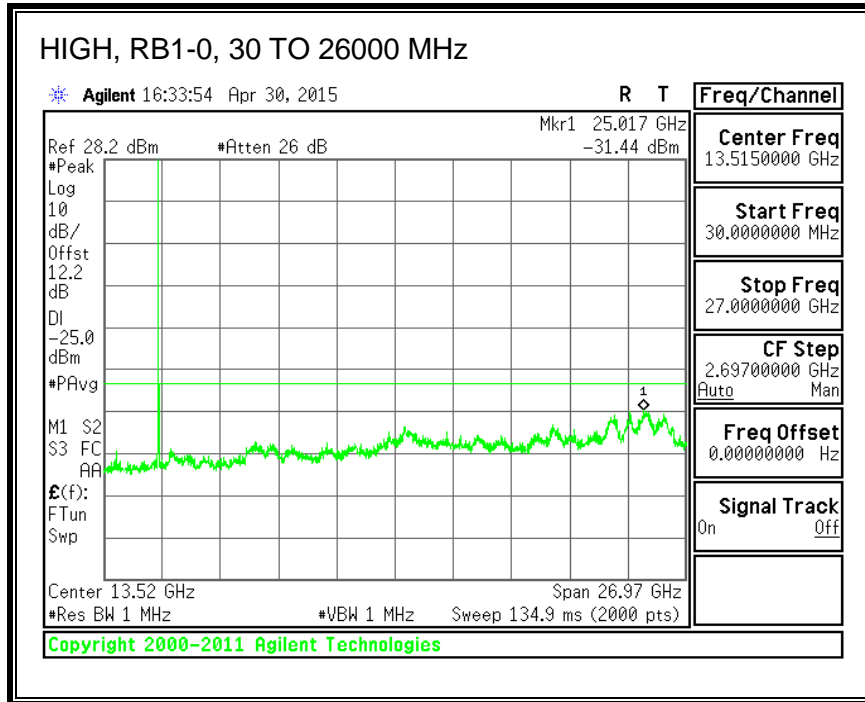
**16QAM, (15.0 MHz BAND WIDTH)**



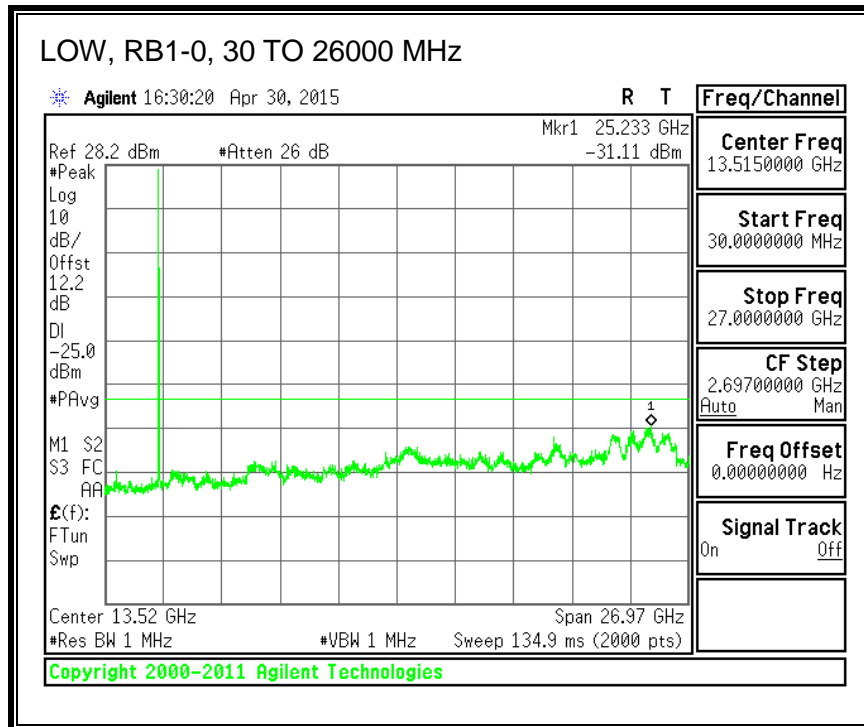


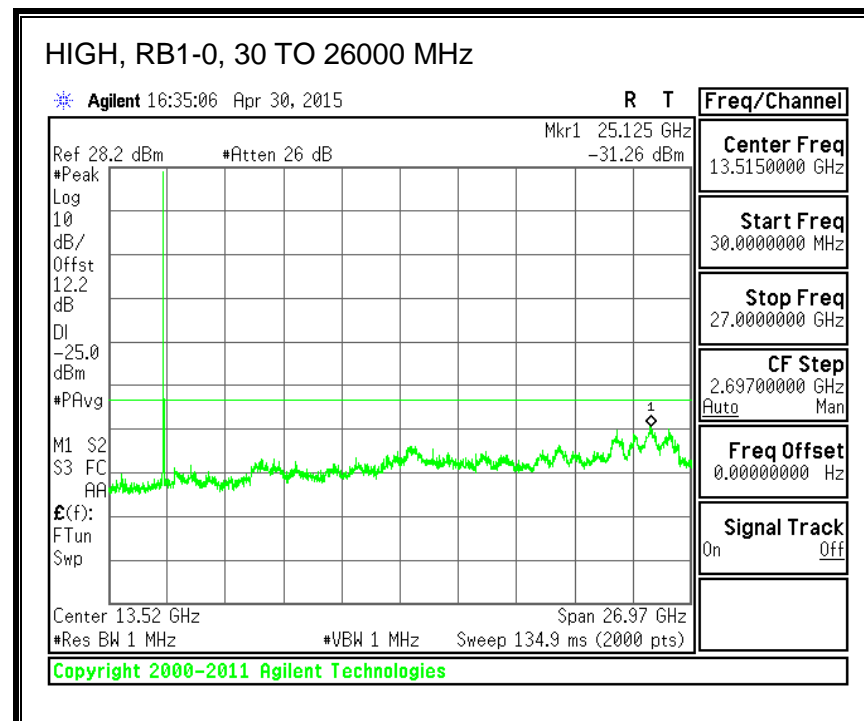
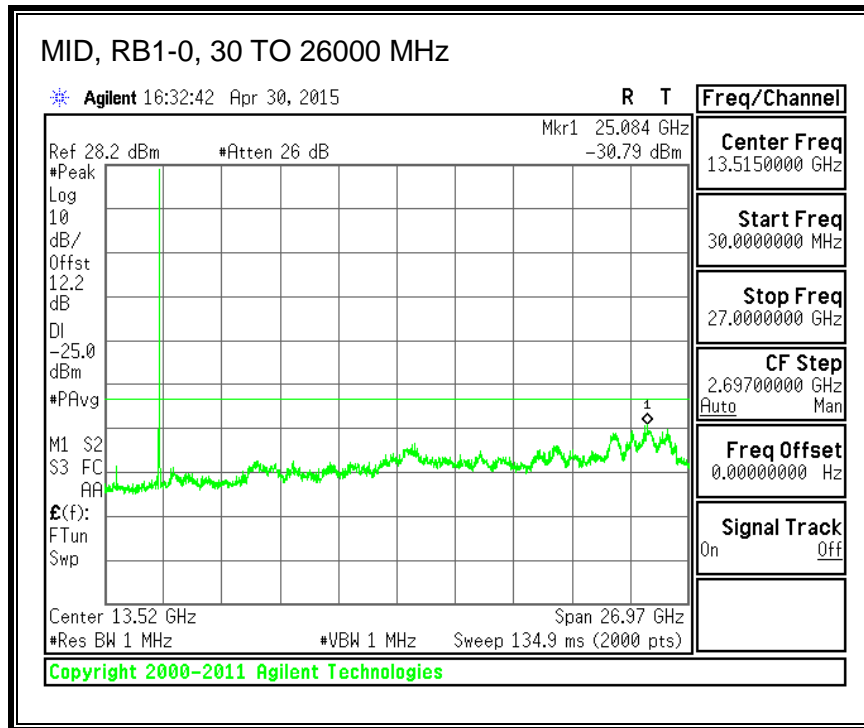
**QPSK, (20.0 MHz BAND WIDTH)**





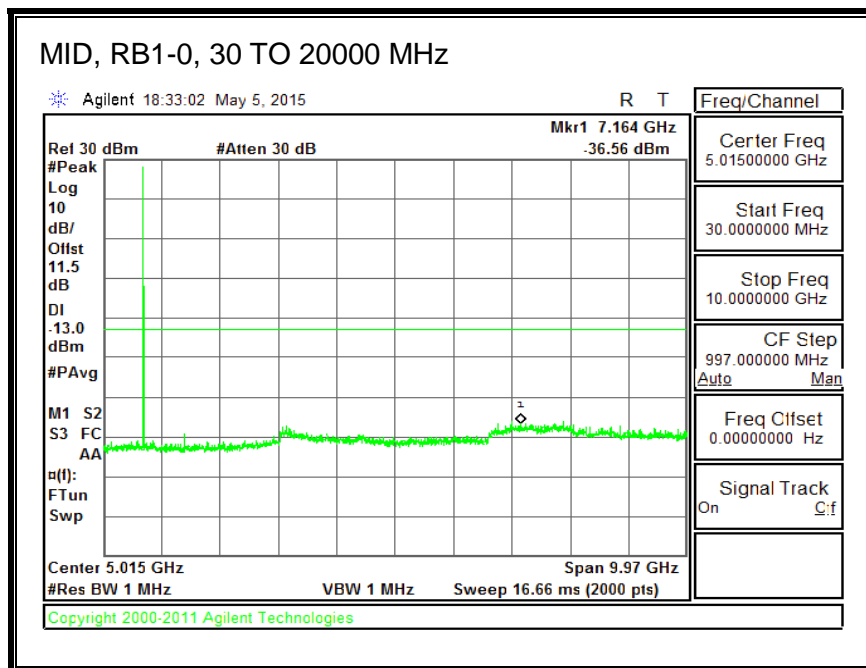
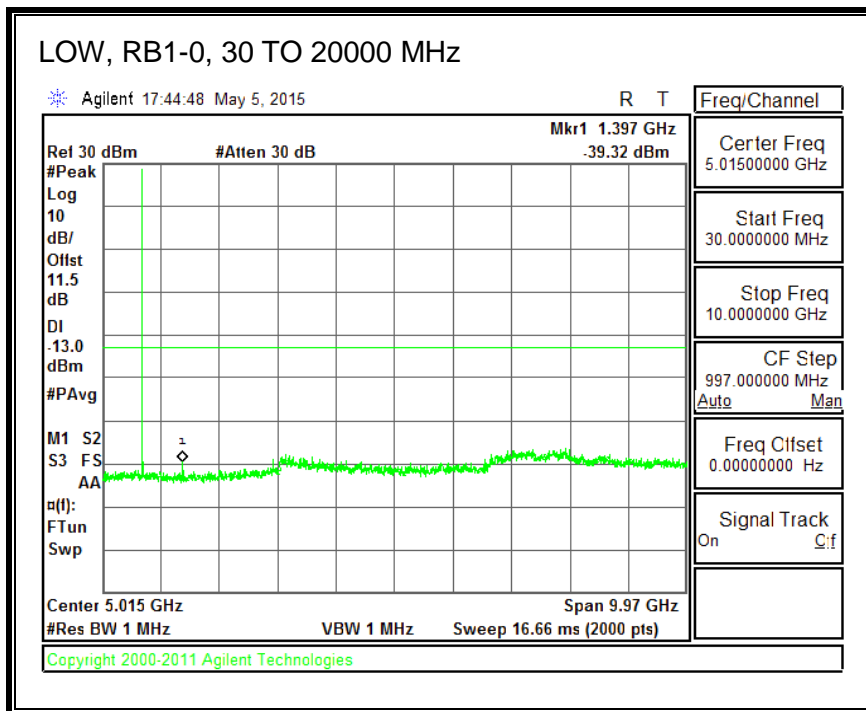
**16QAM, (20.0 MHz BAND WIDTH)**

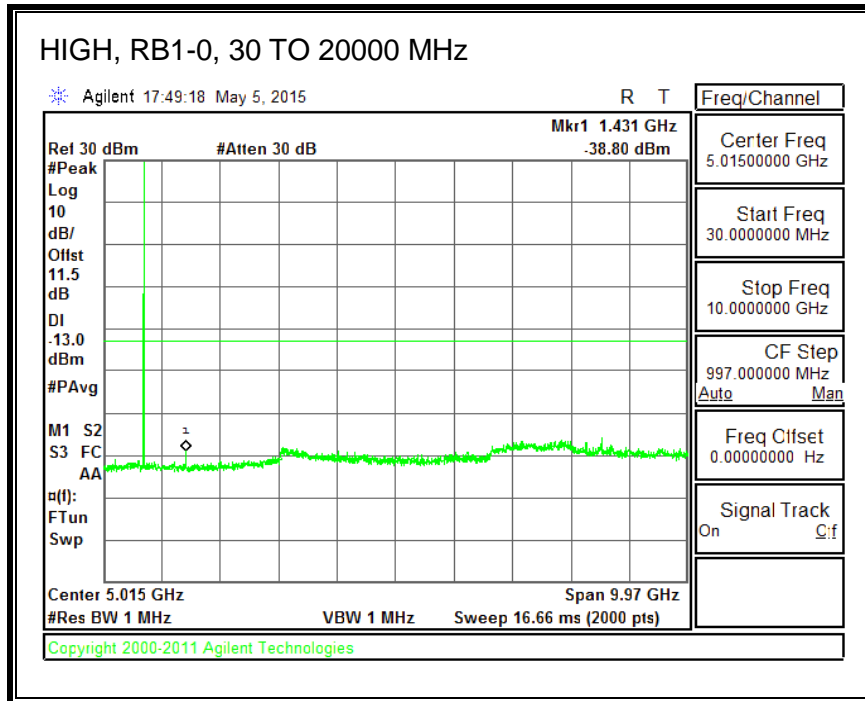




### 8.5.5. LTE BAND 12

#### QPSK, (1.4 MHz BAND WIDTH)





**16QAM, (1.4 MHz BAND WIDTH)**

