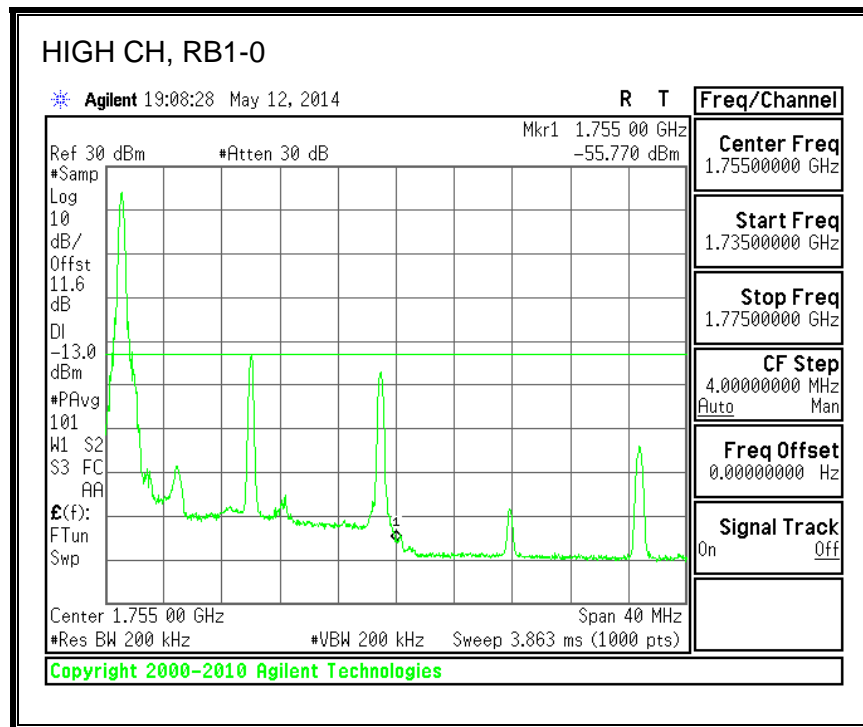
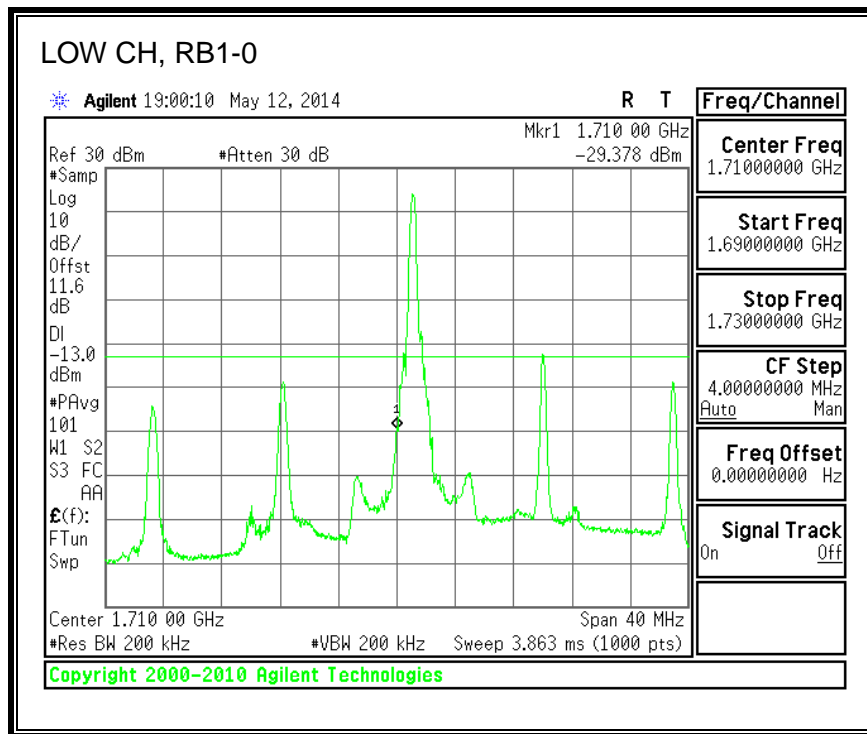
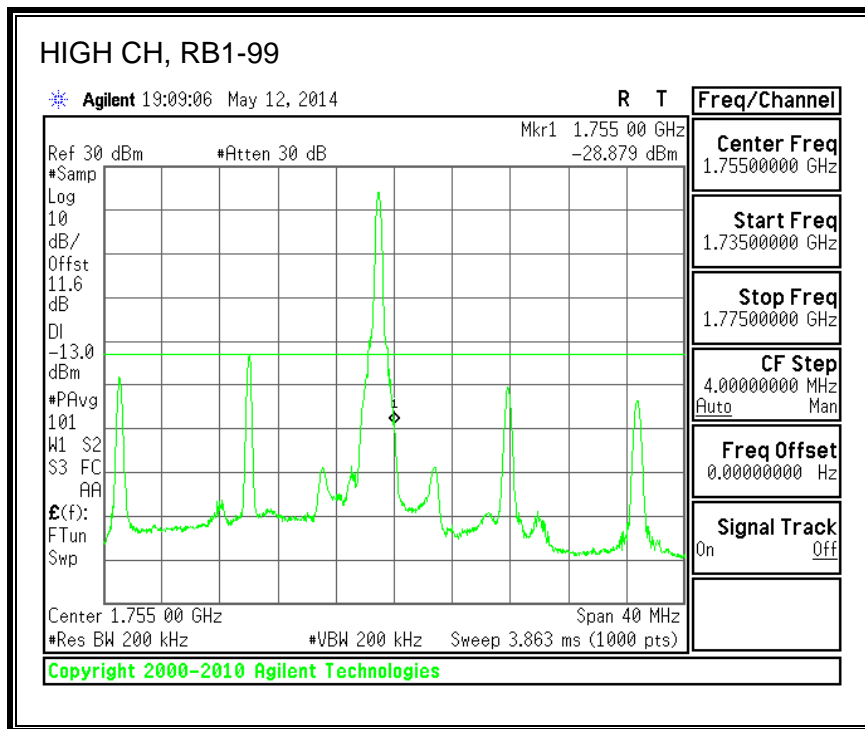
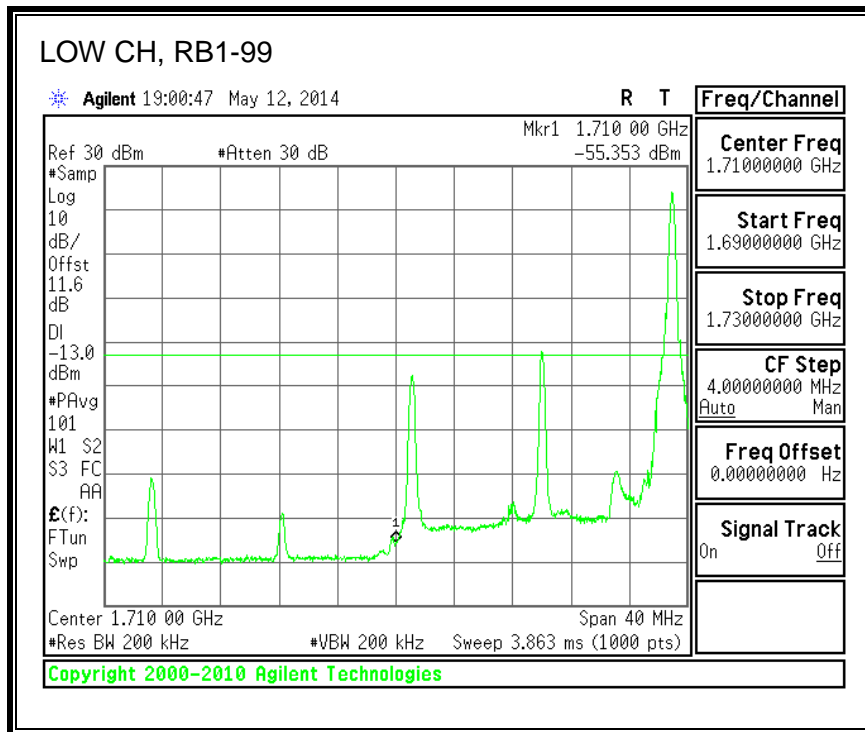
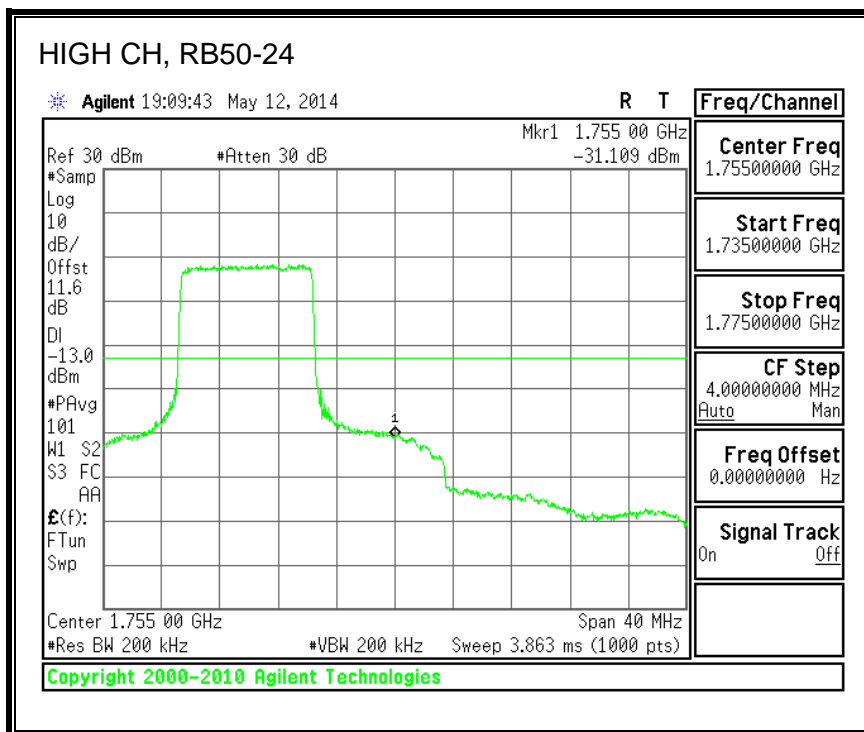
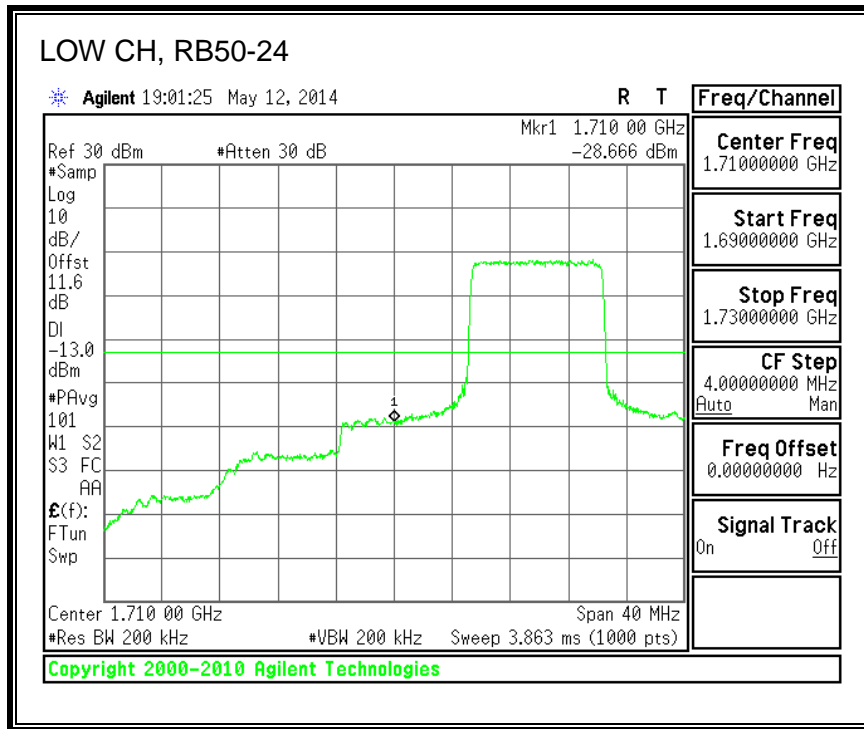
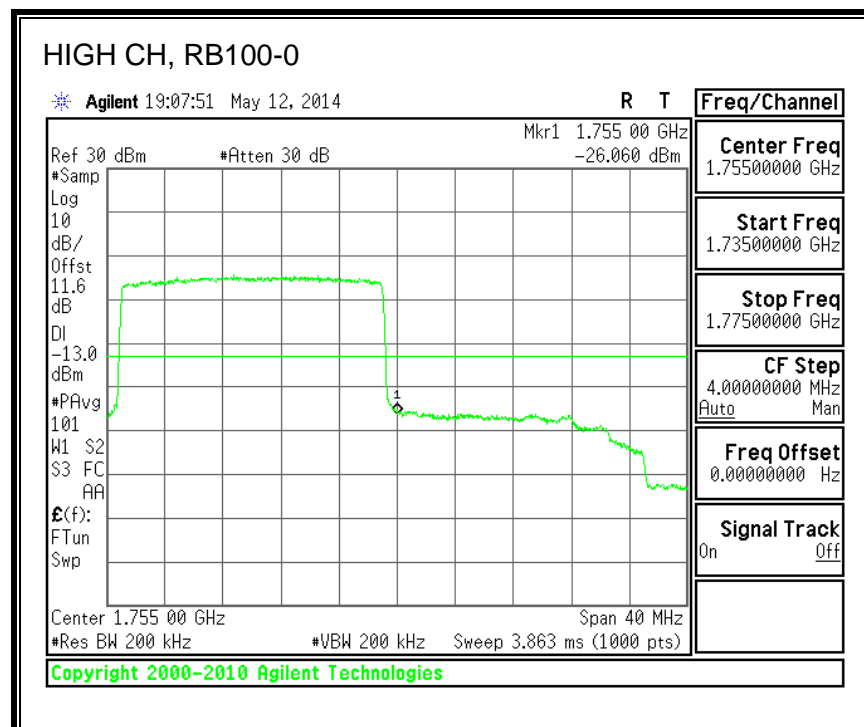
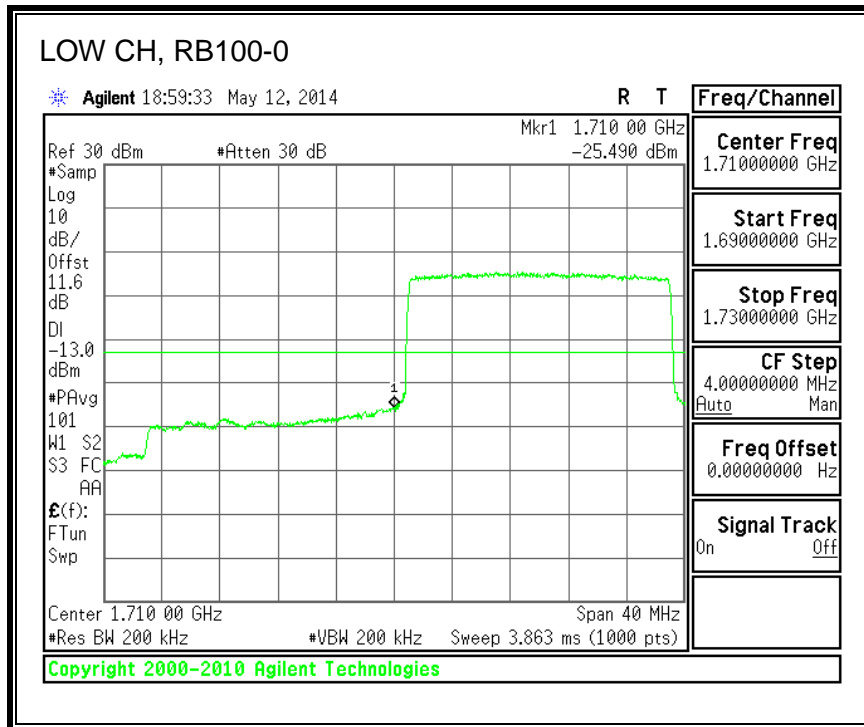


QPSK, (20.0 MHz BAND WIDTH)

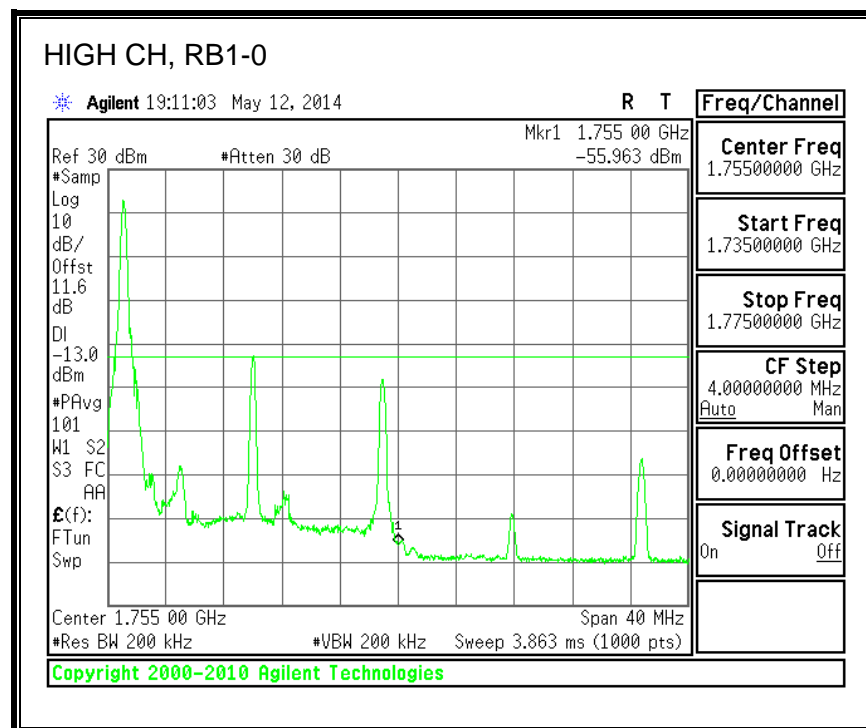
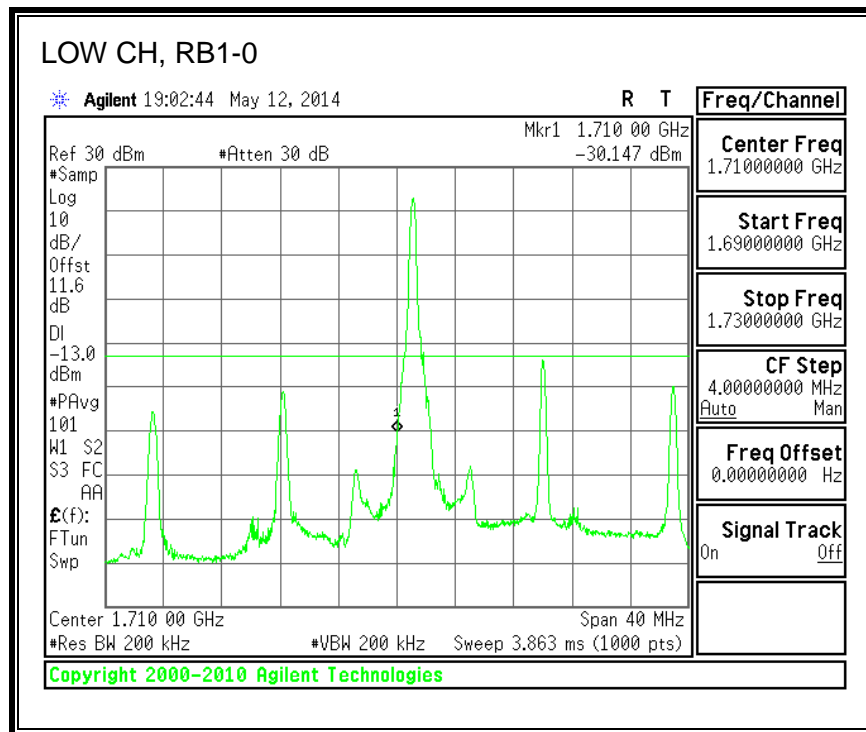


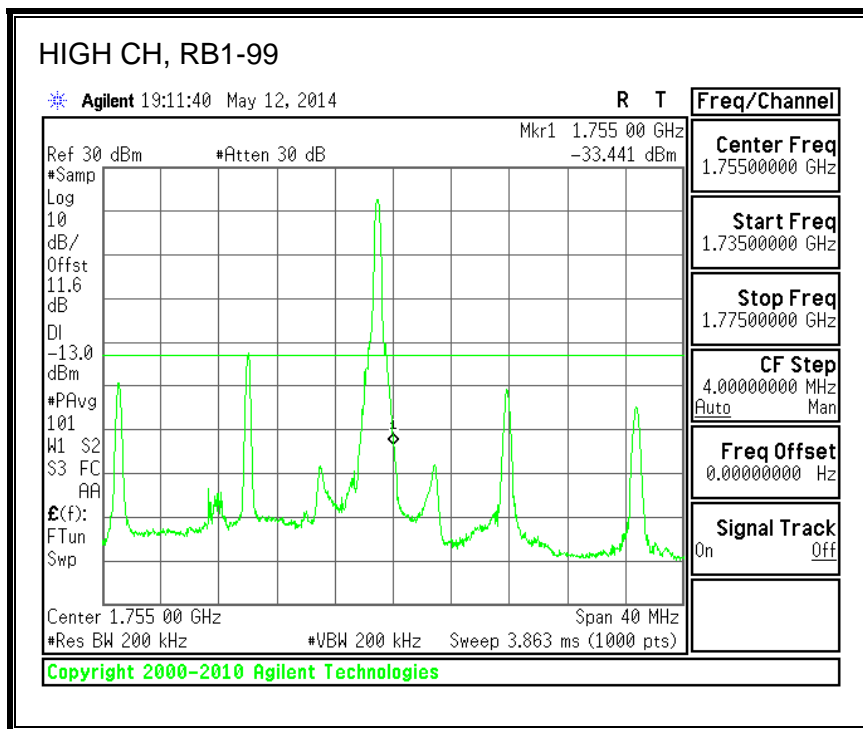
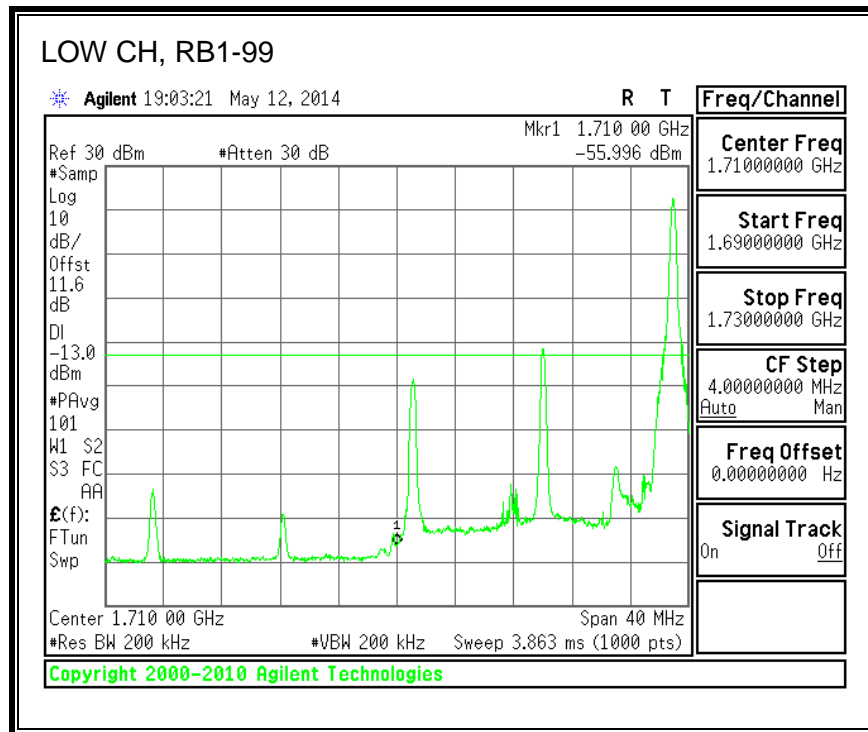


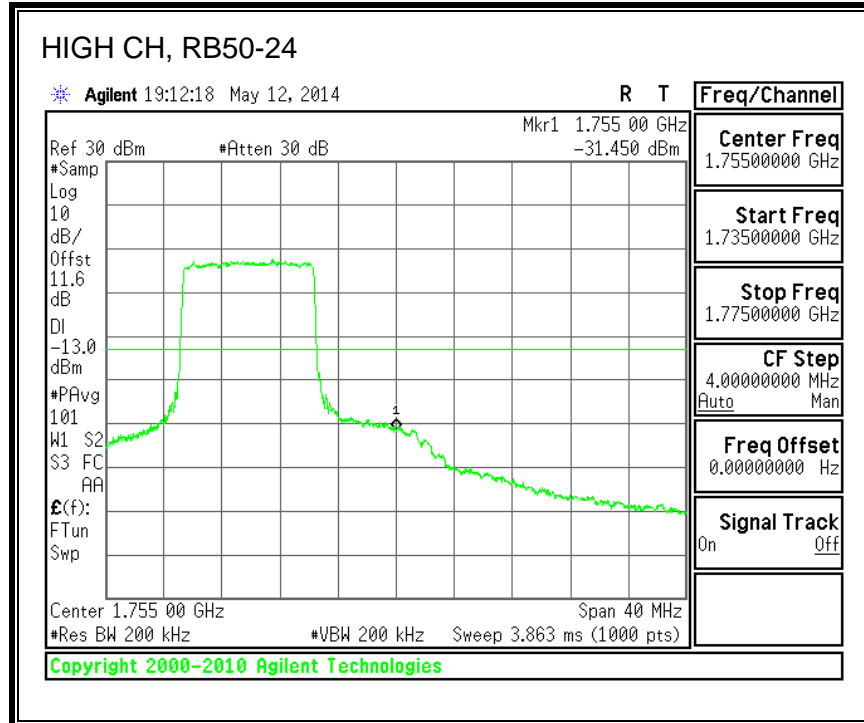
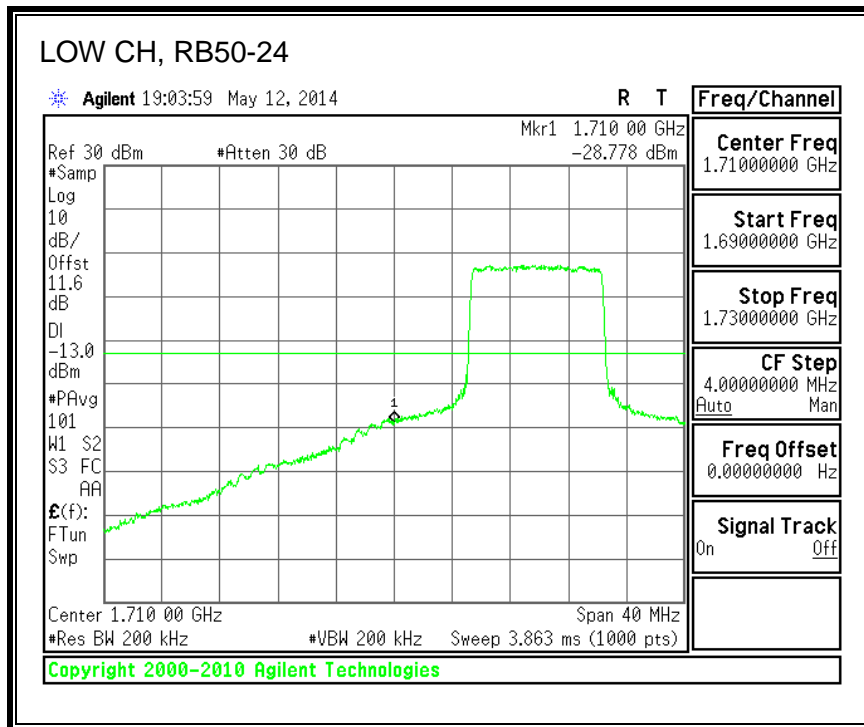


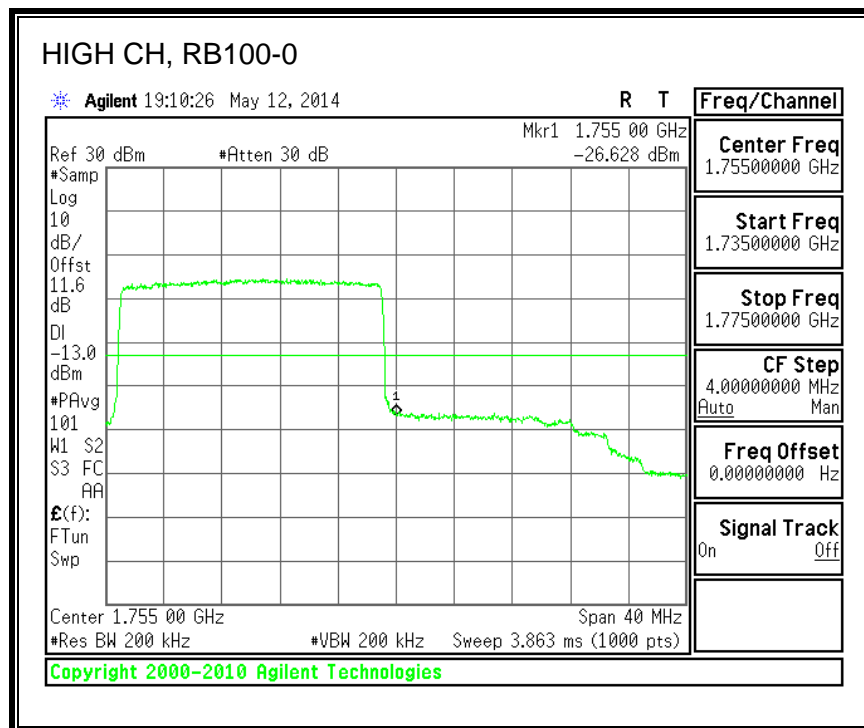
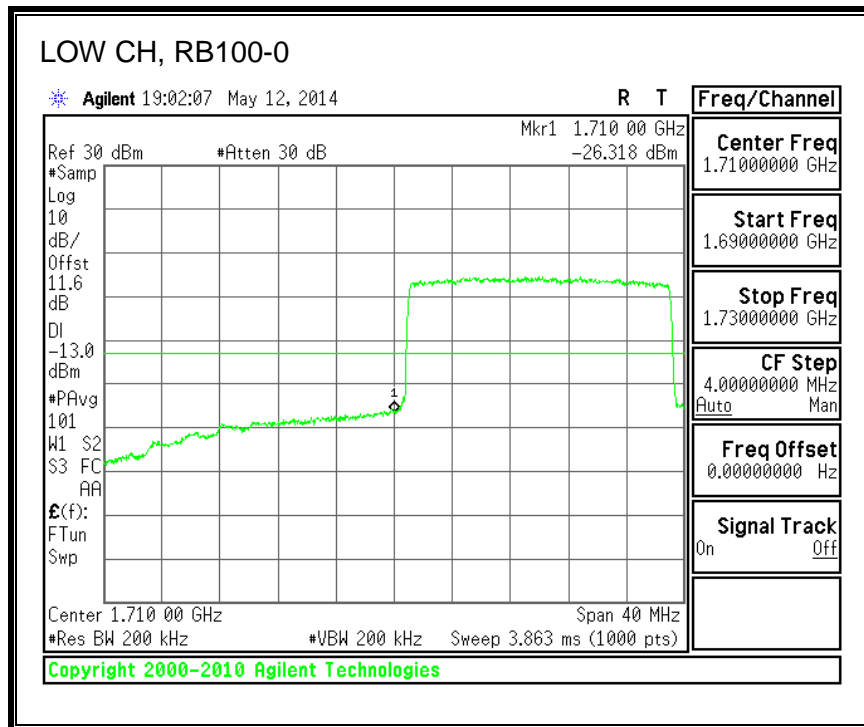


16QAM, (20.0 MHz BAND WIDTH)



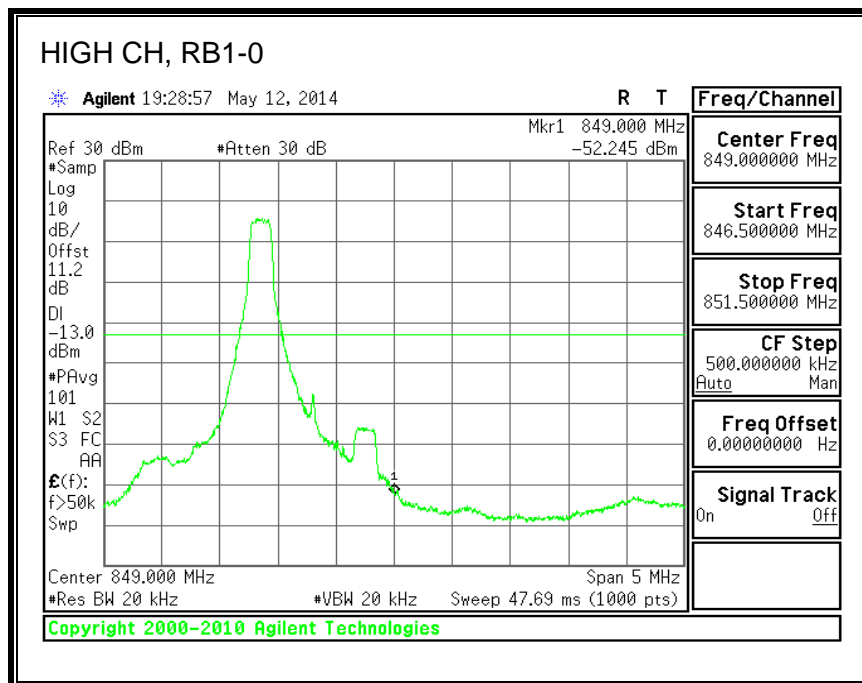
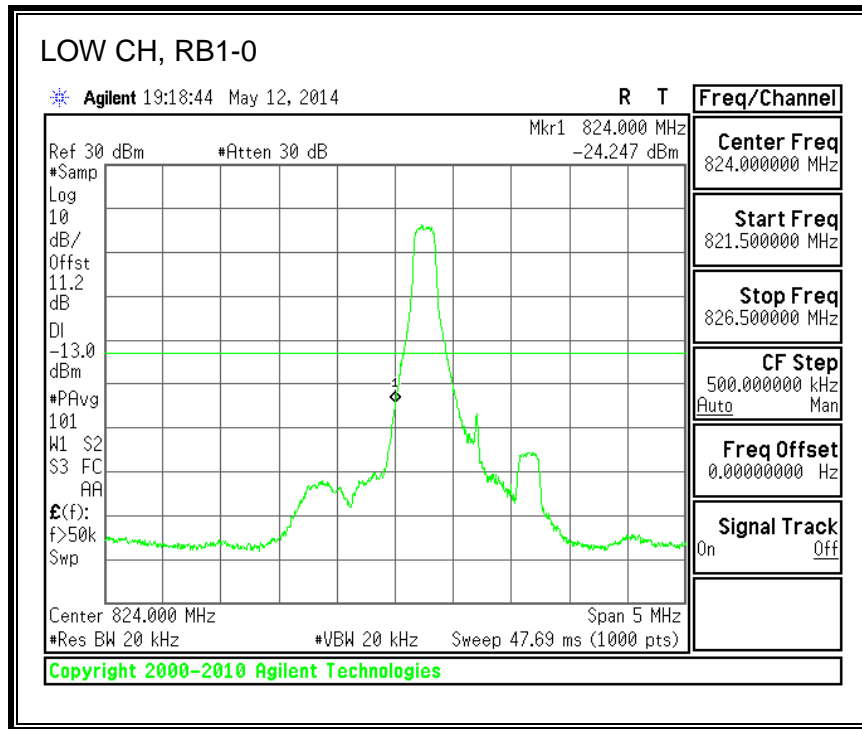


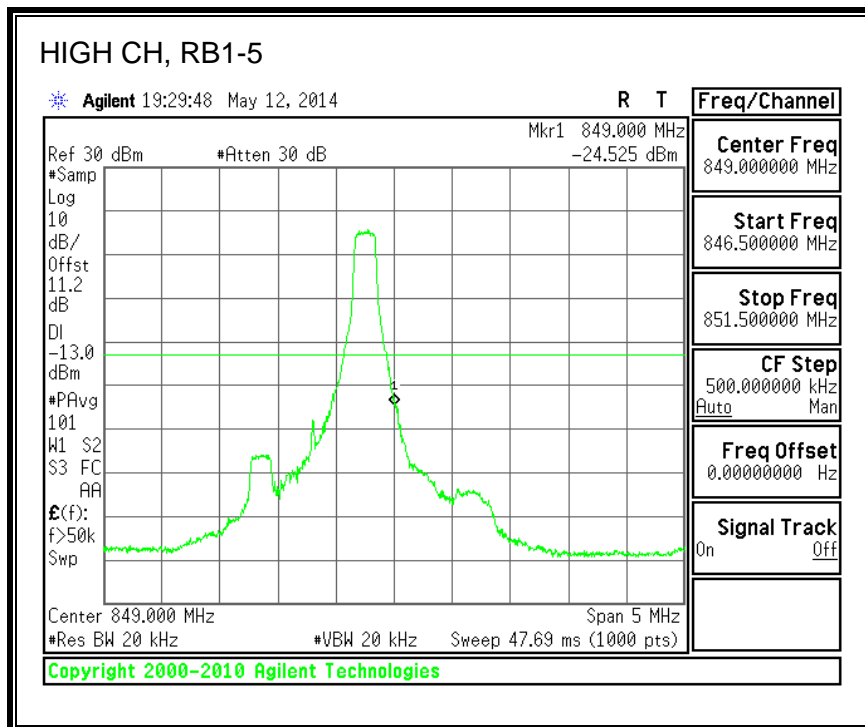
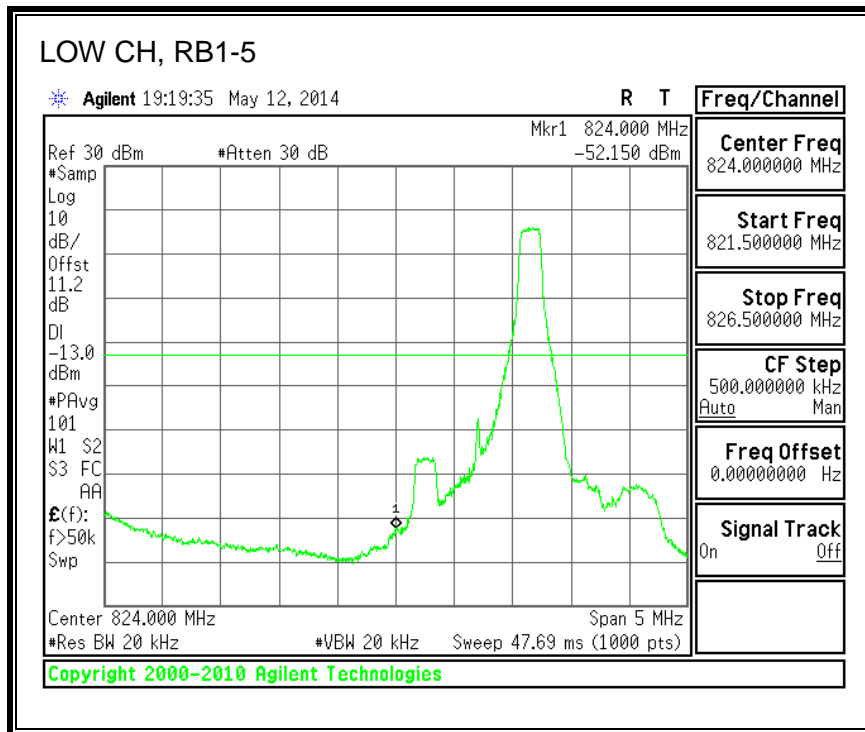


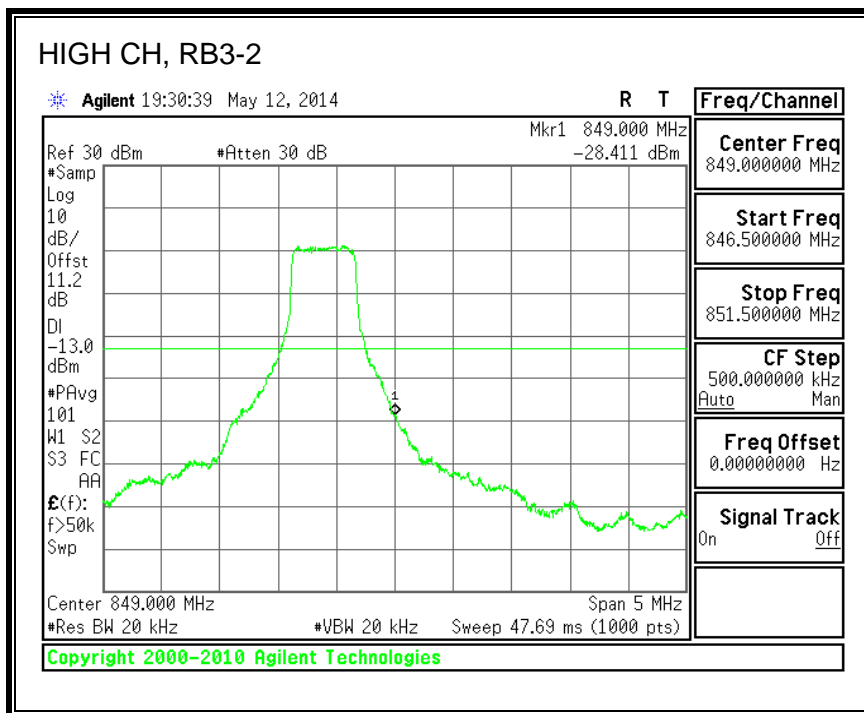
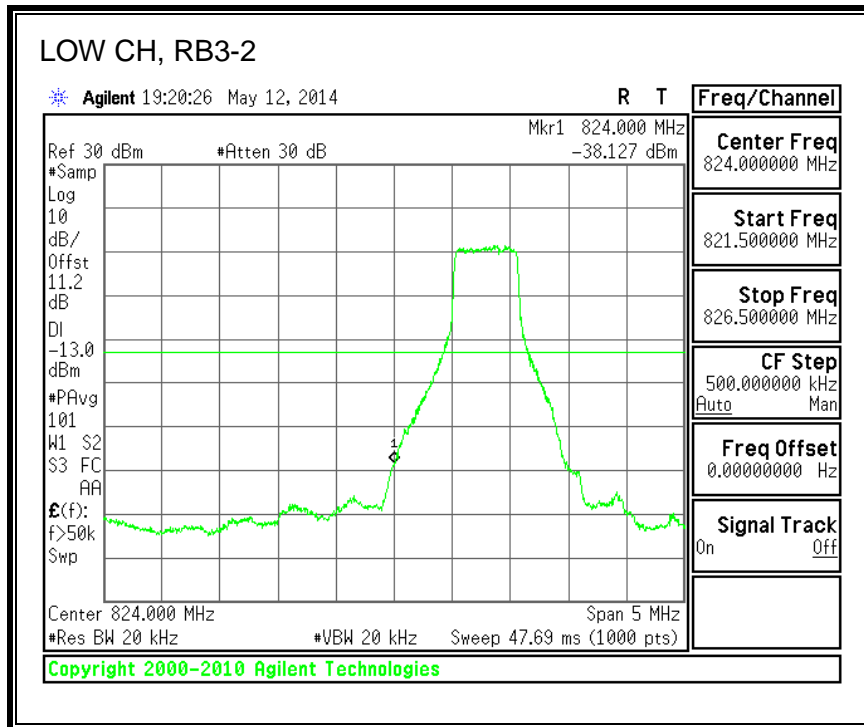


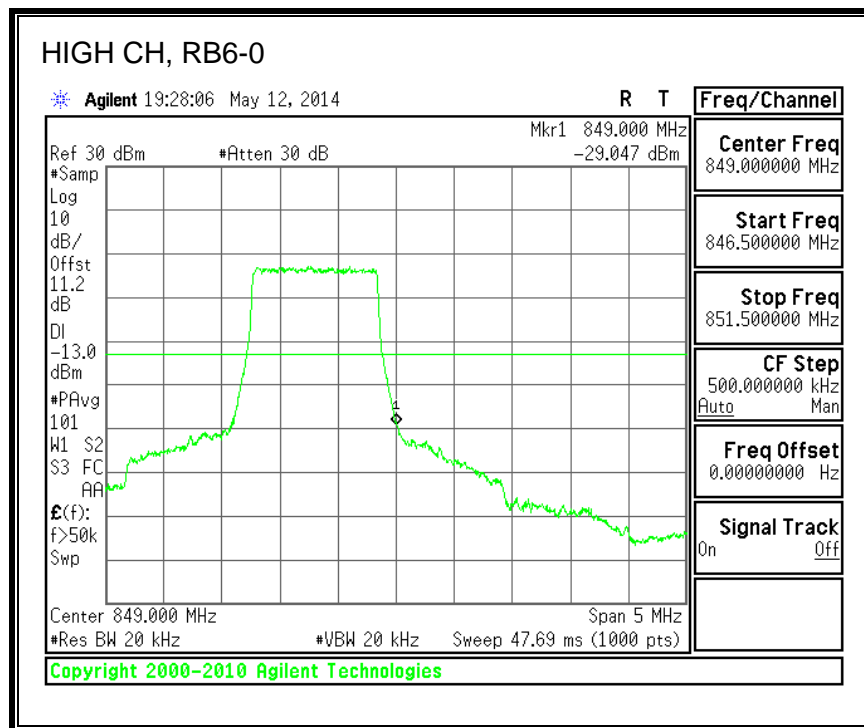
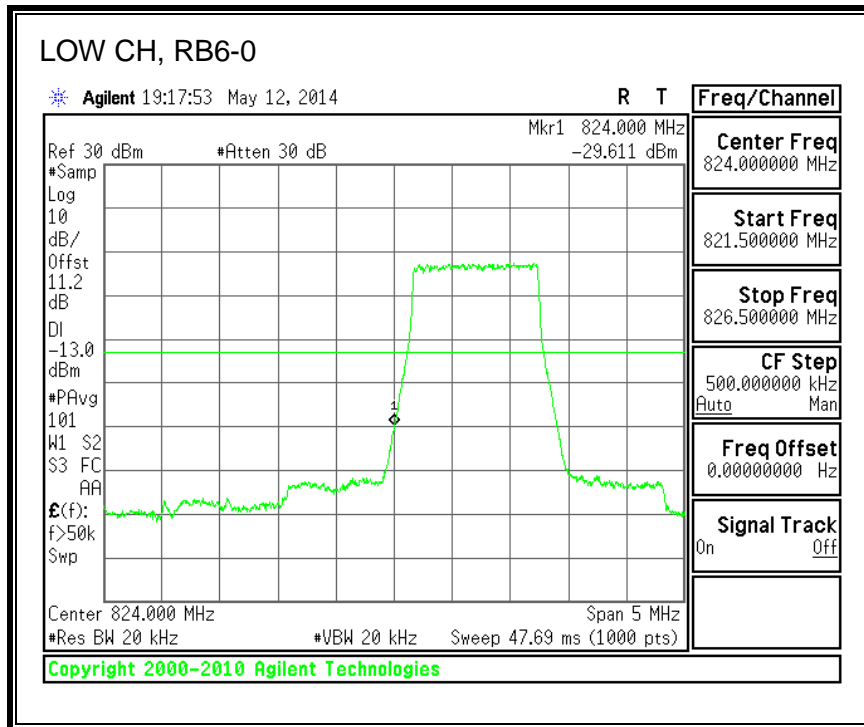
8.2.3. LTE BAND 5 BANDEDGE

QPSK, (1.4 MHz BAND WIDTH)

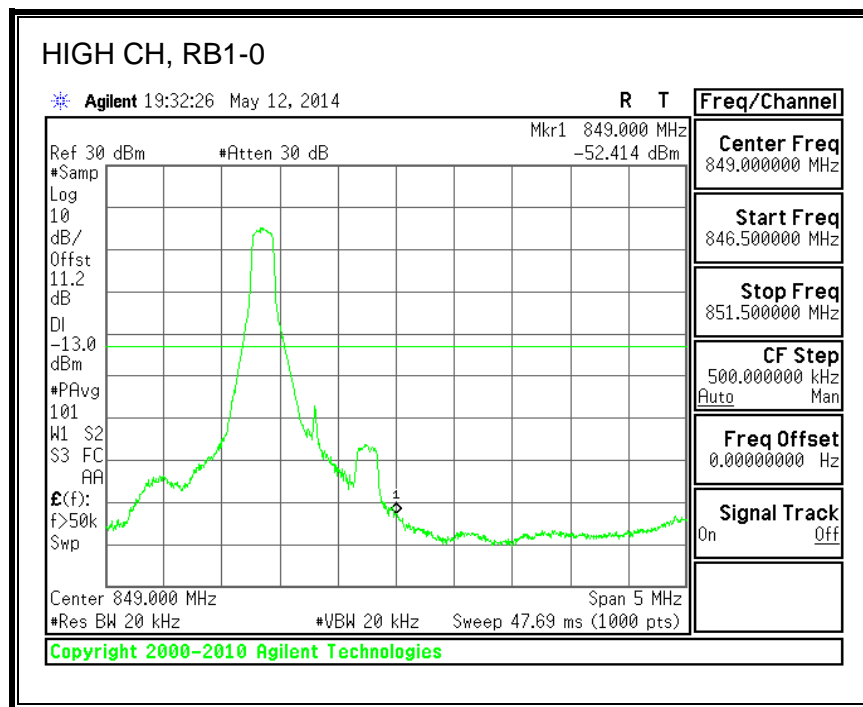
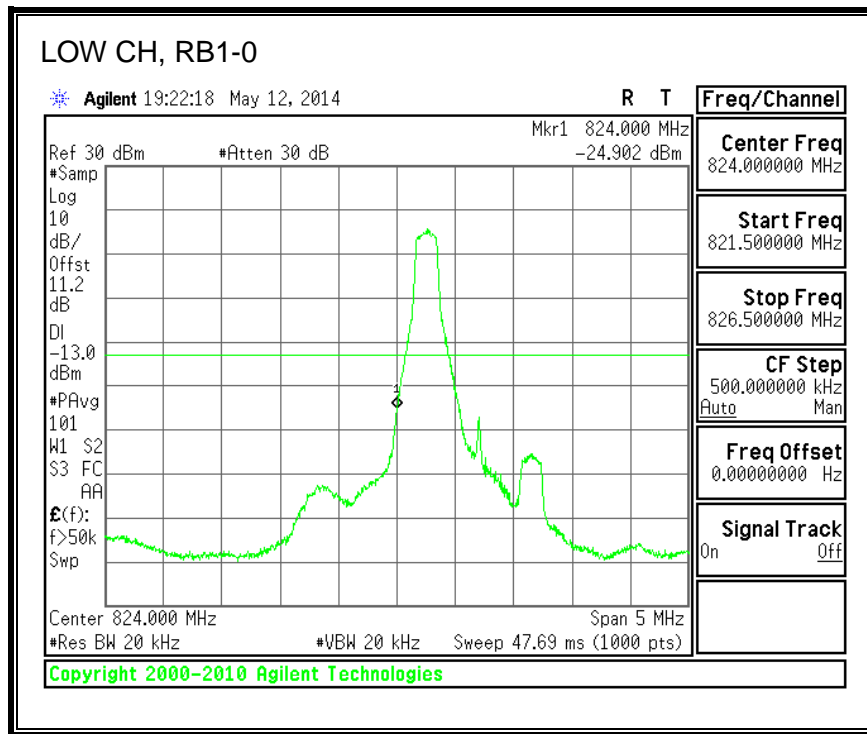


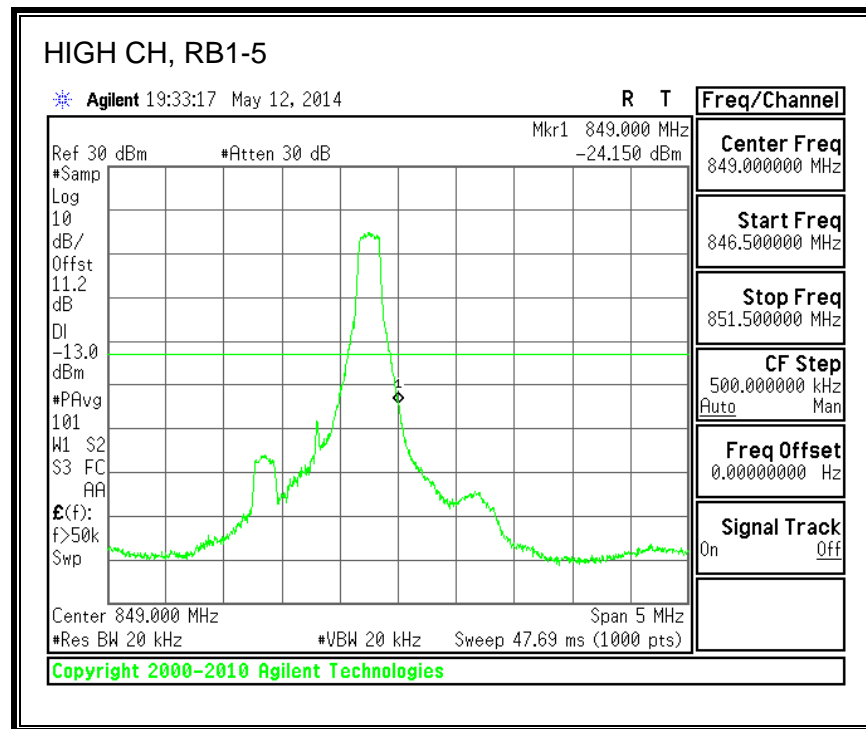
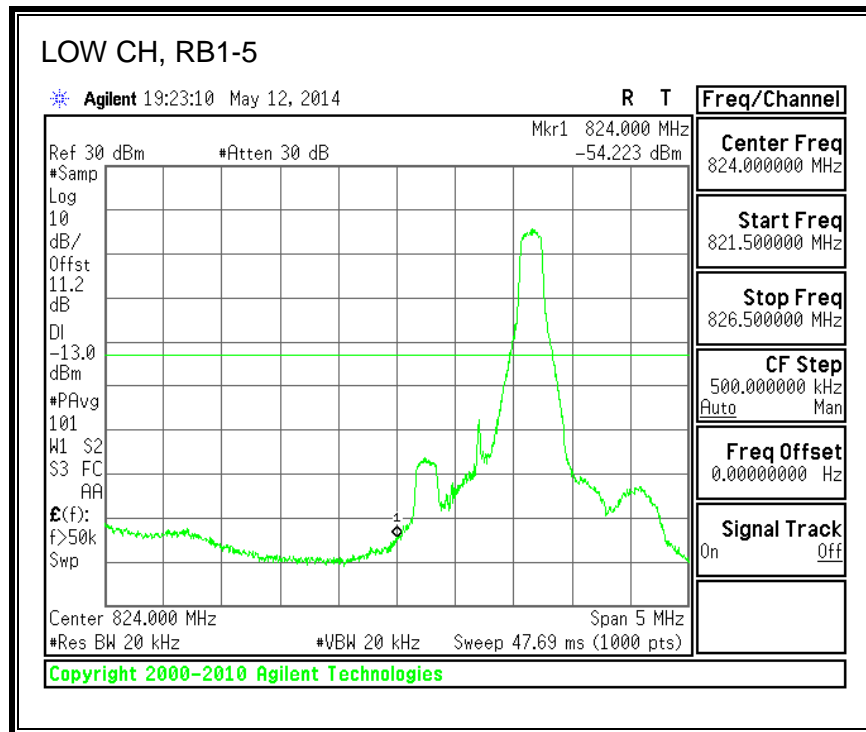


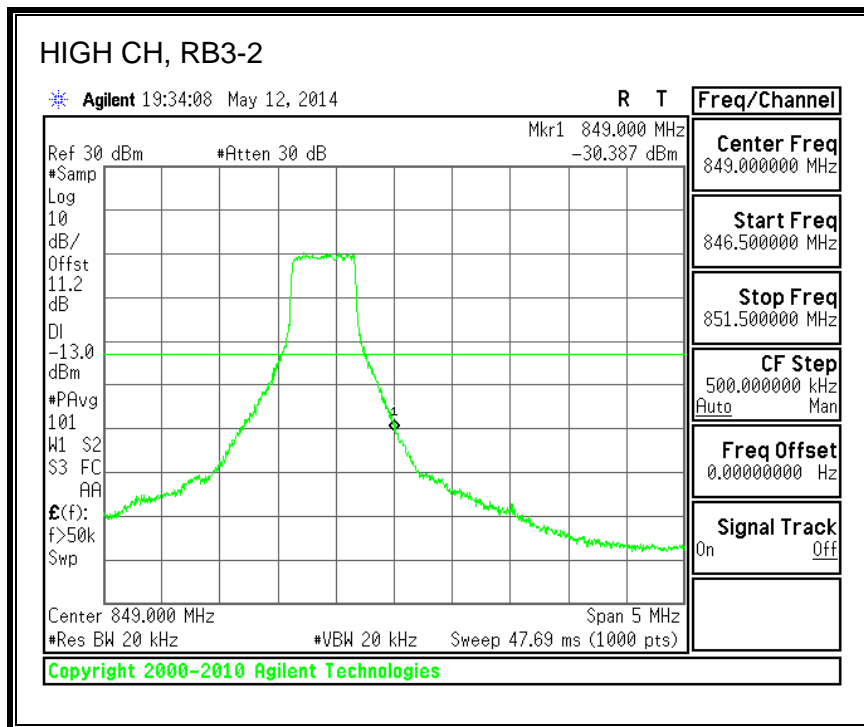
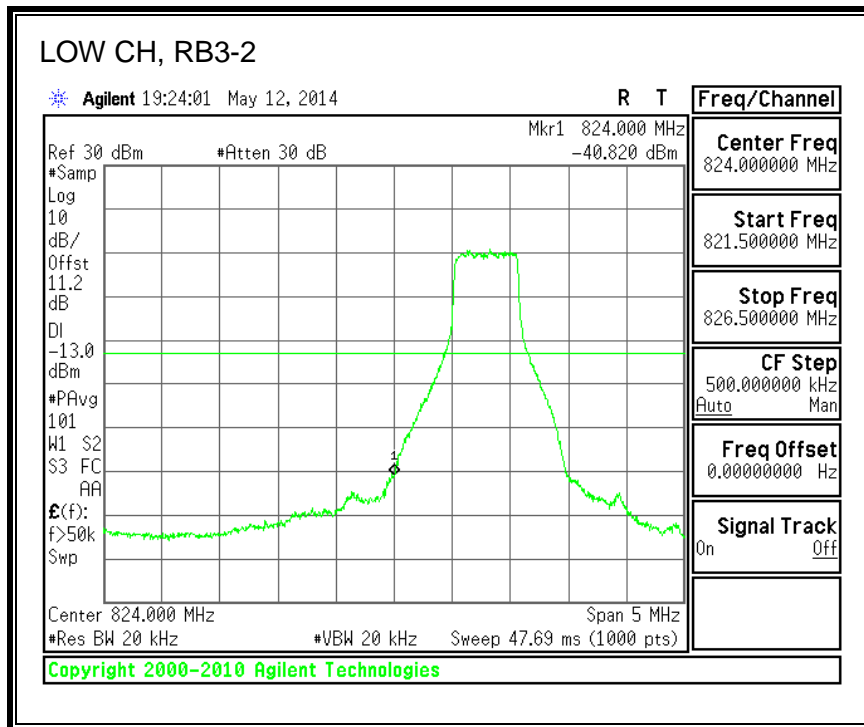


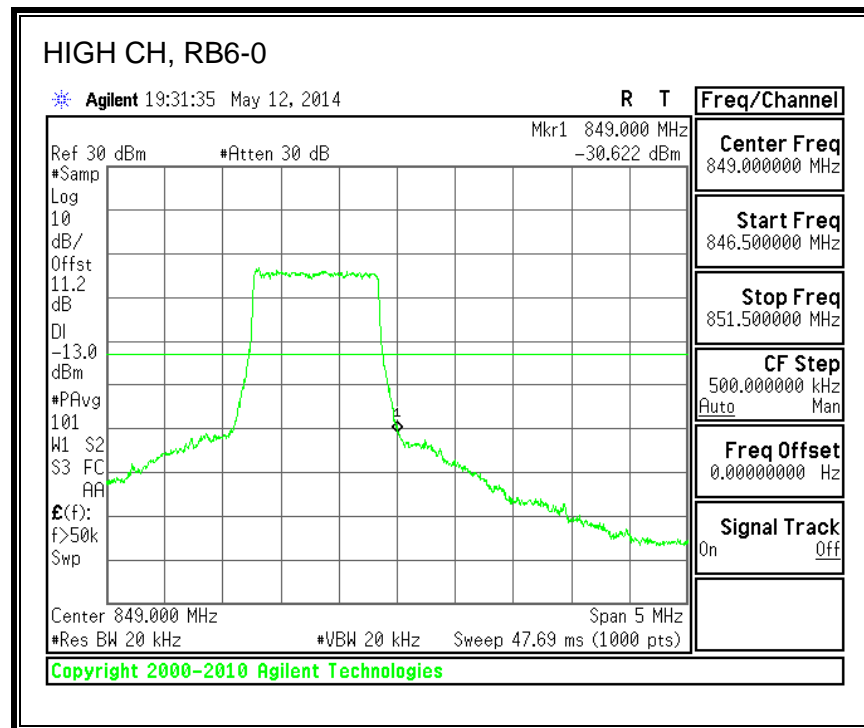
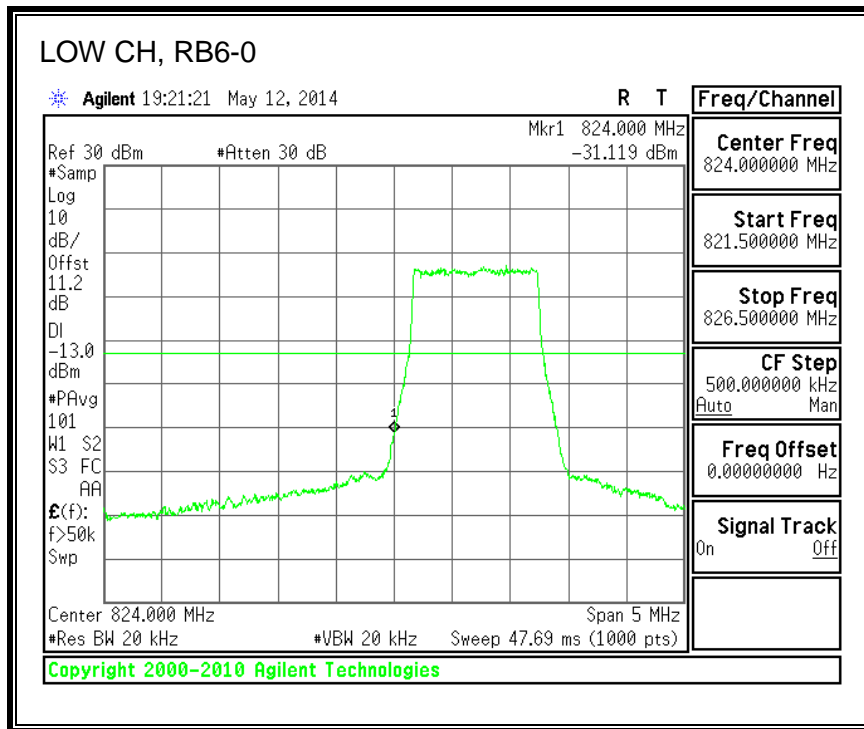


16QAM, (1.4 MHz BAND WIDTH)

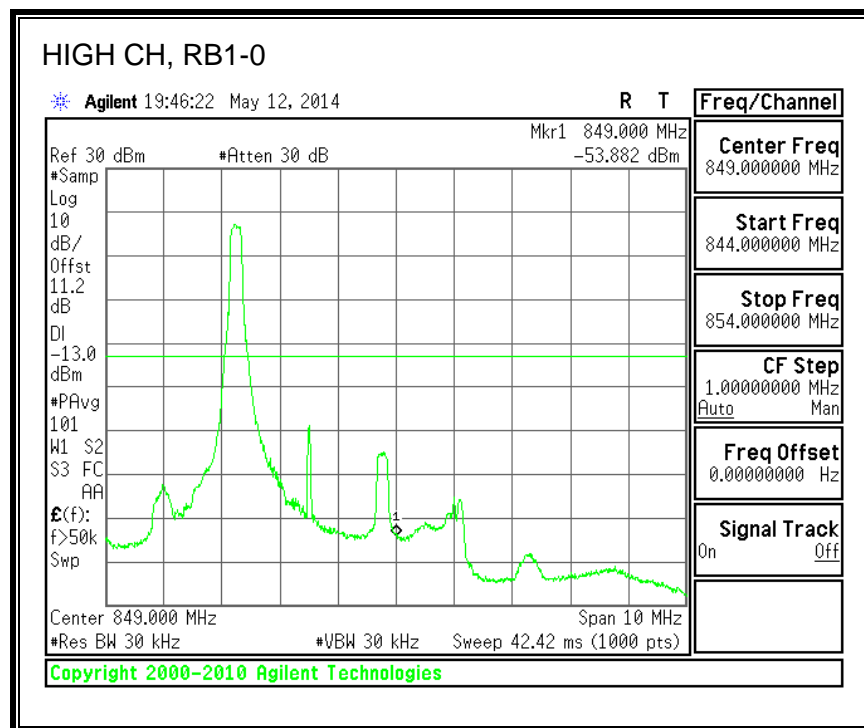
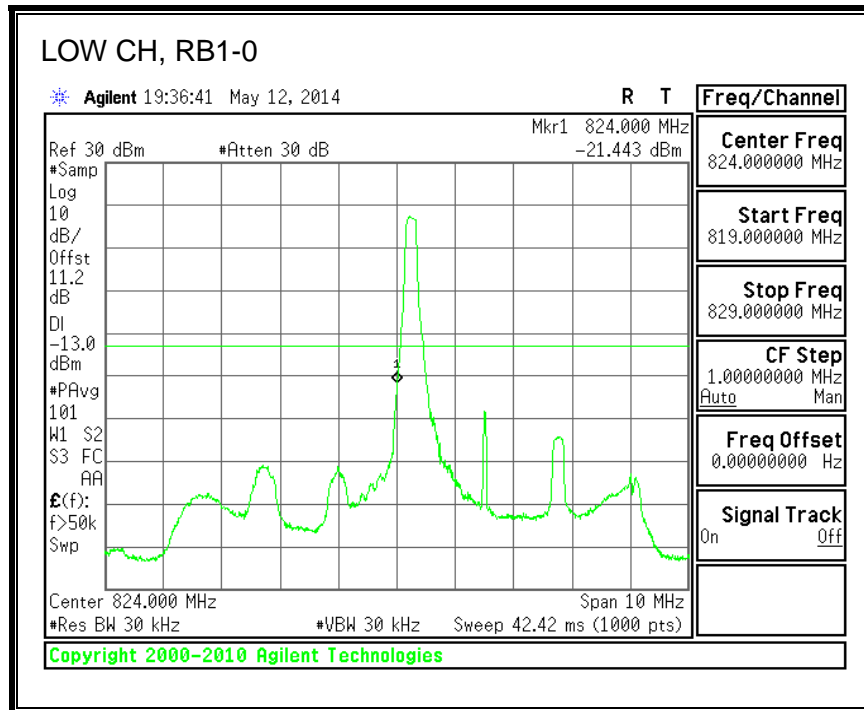


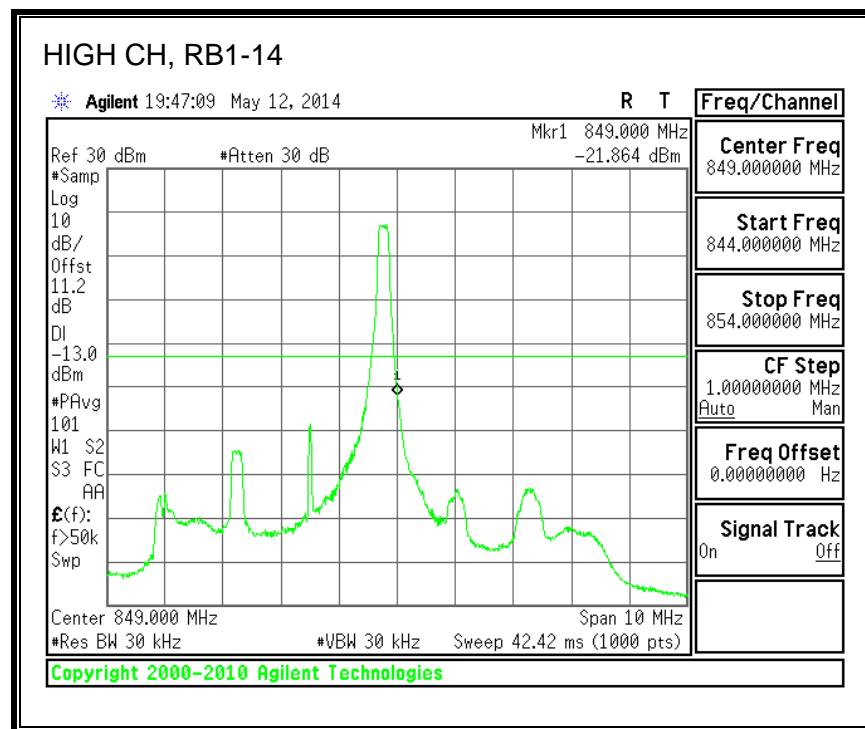
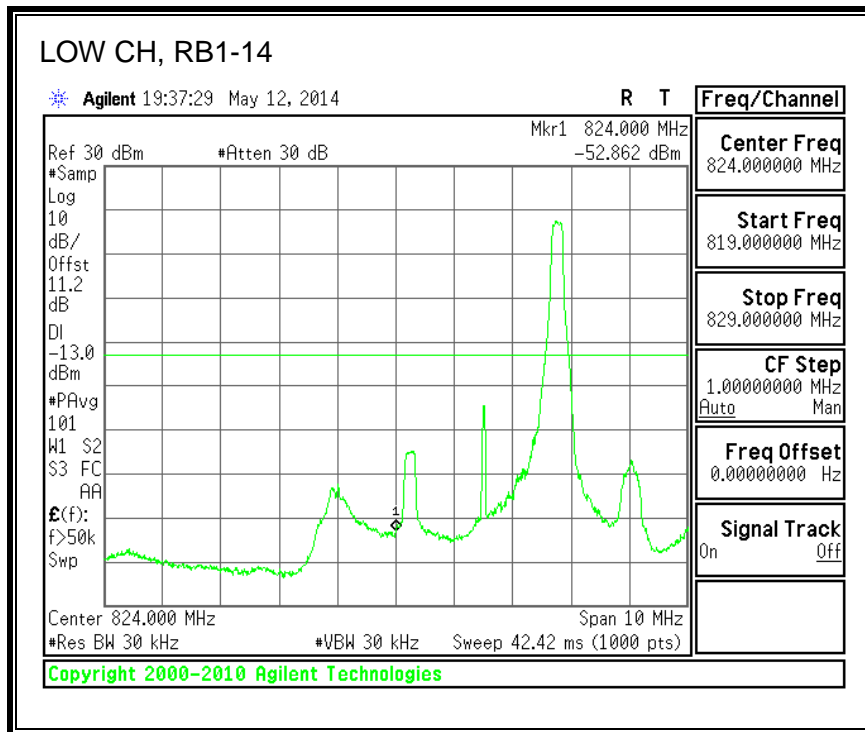


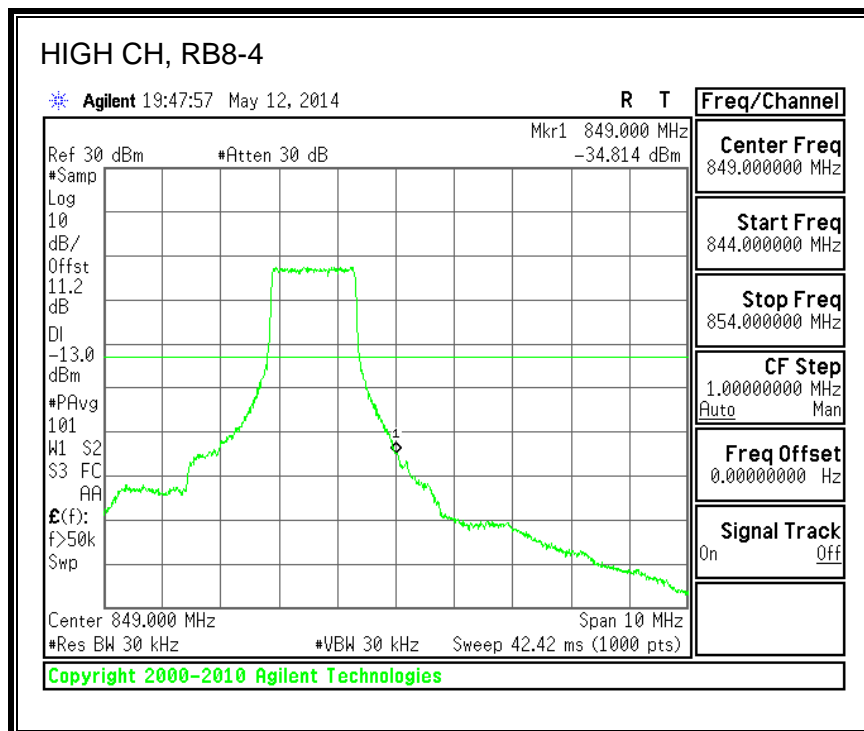
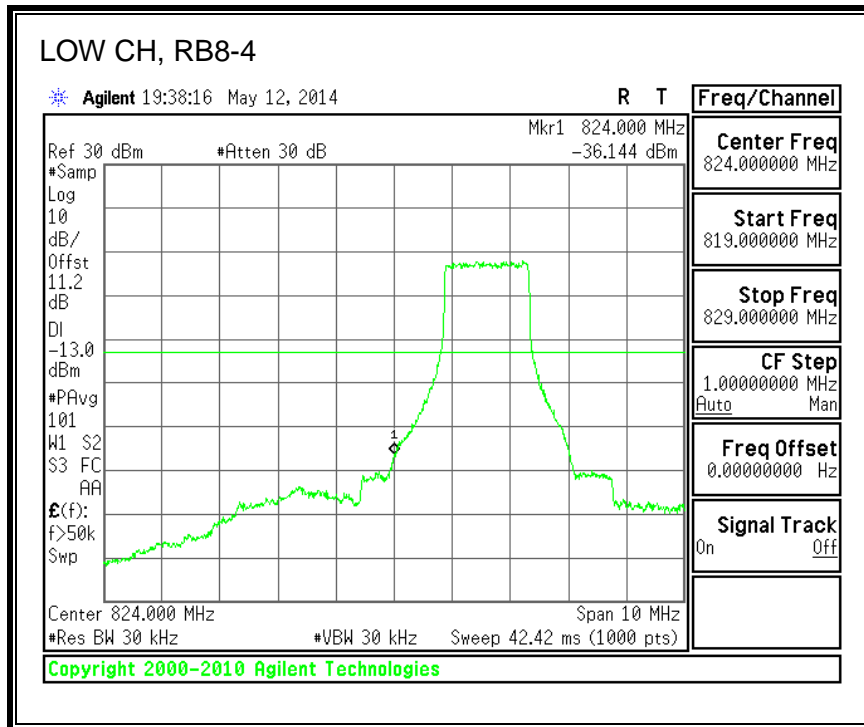


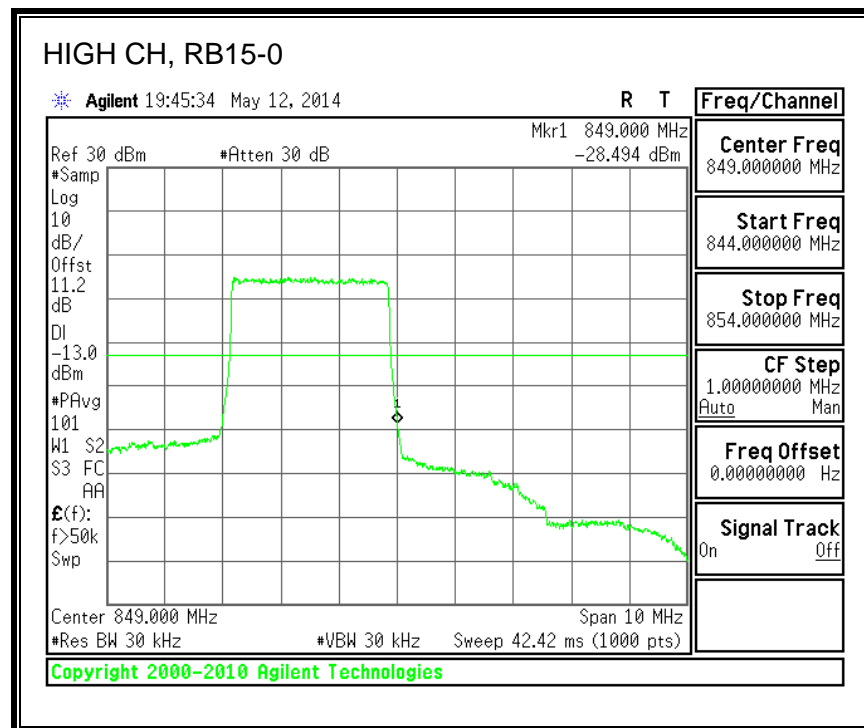
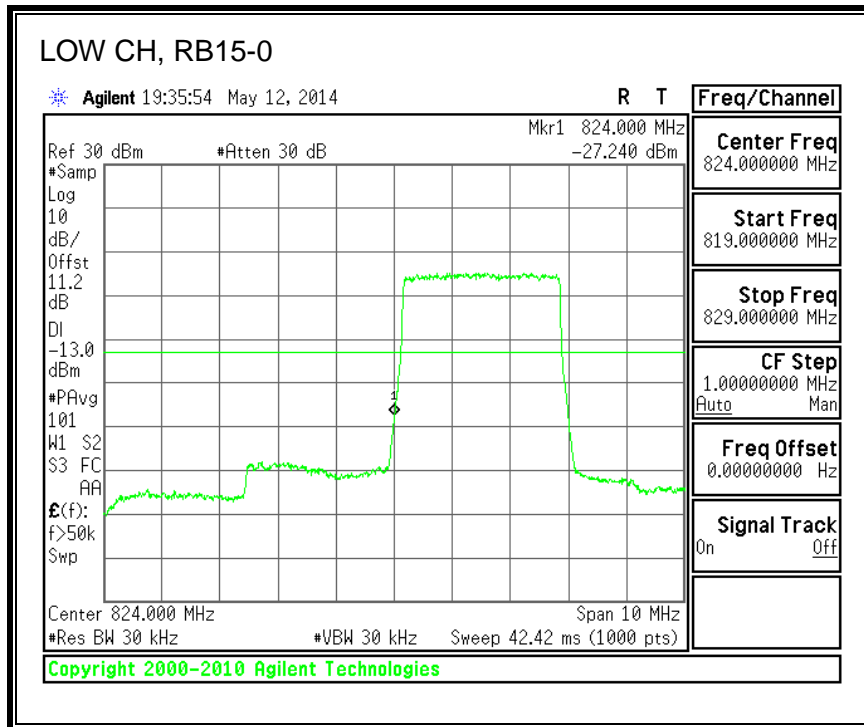


QPSK, (3.0 MHz BAND WIDTH)

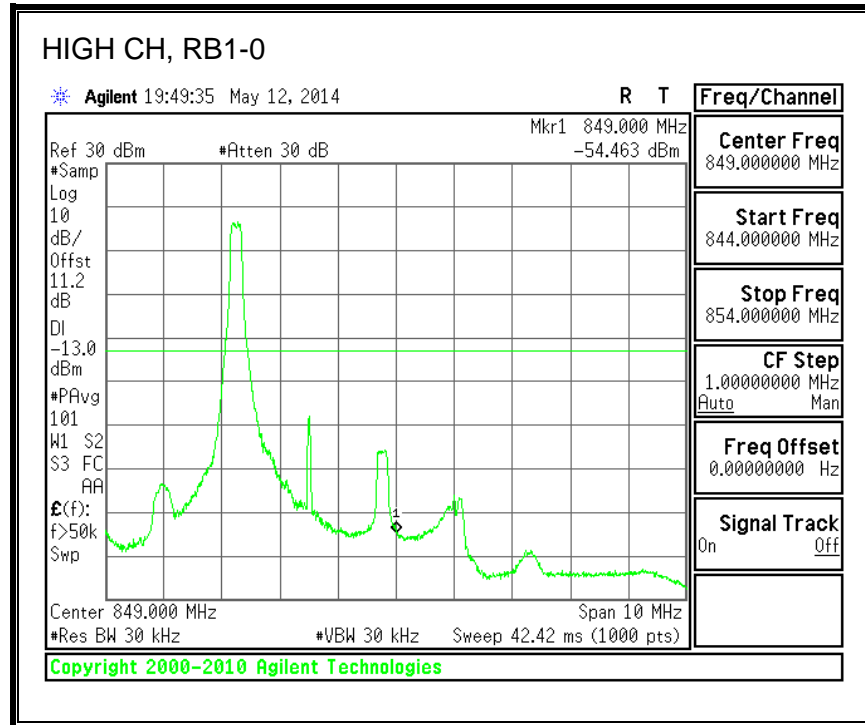
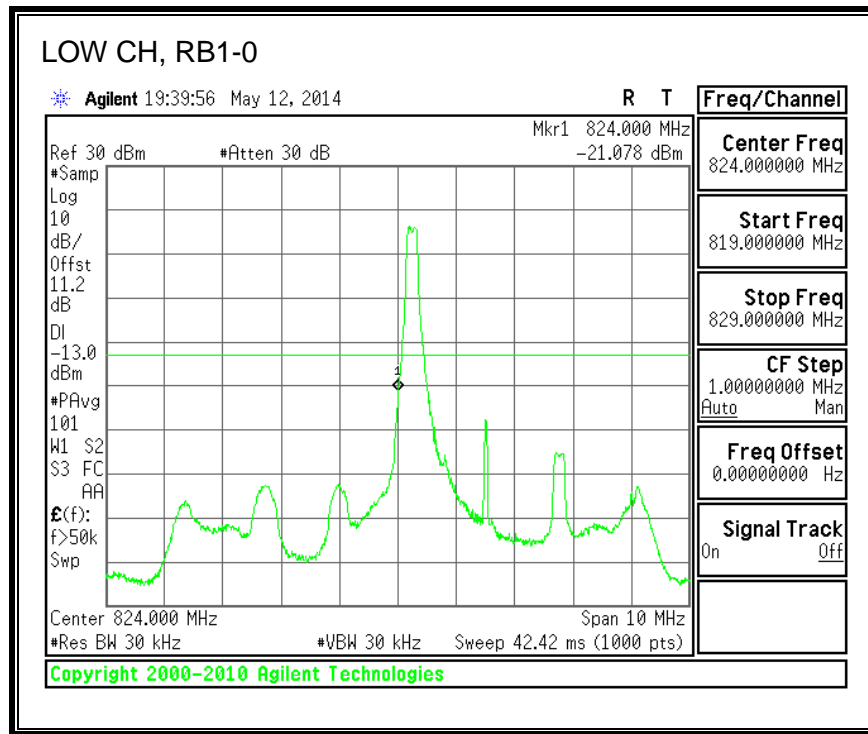


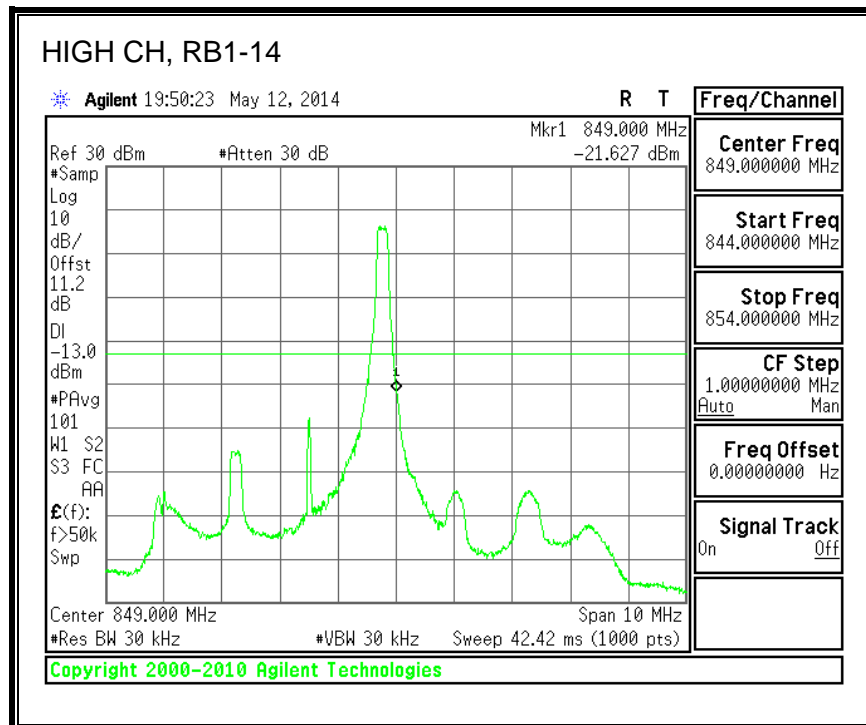
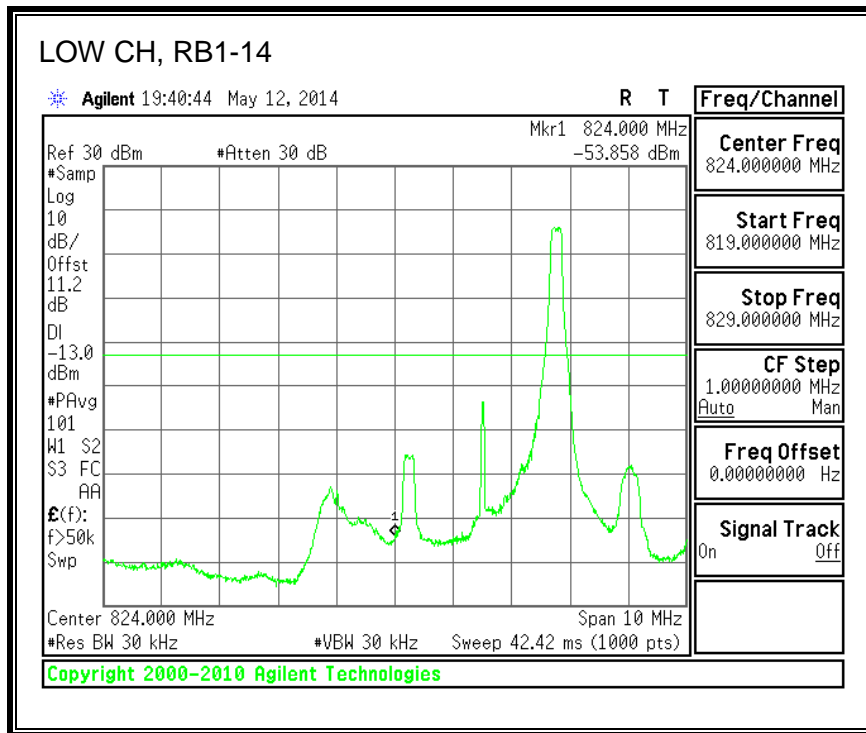


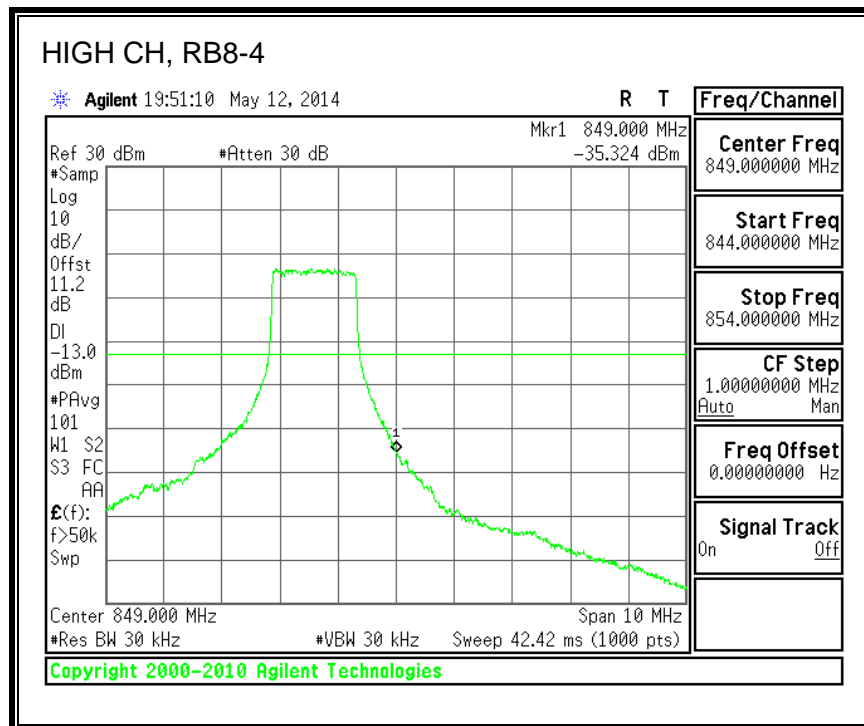
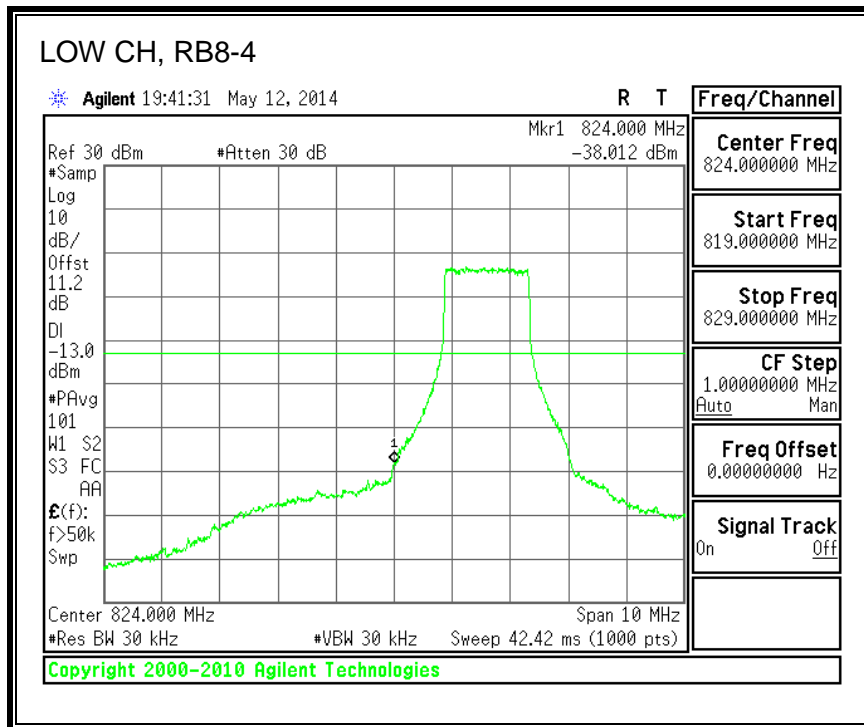


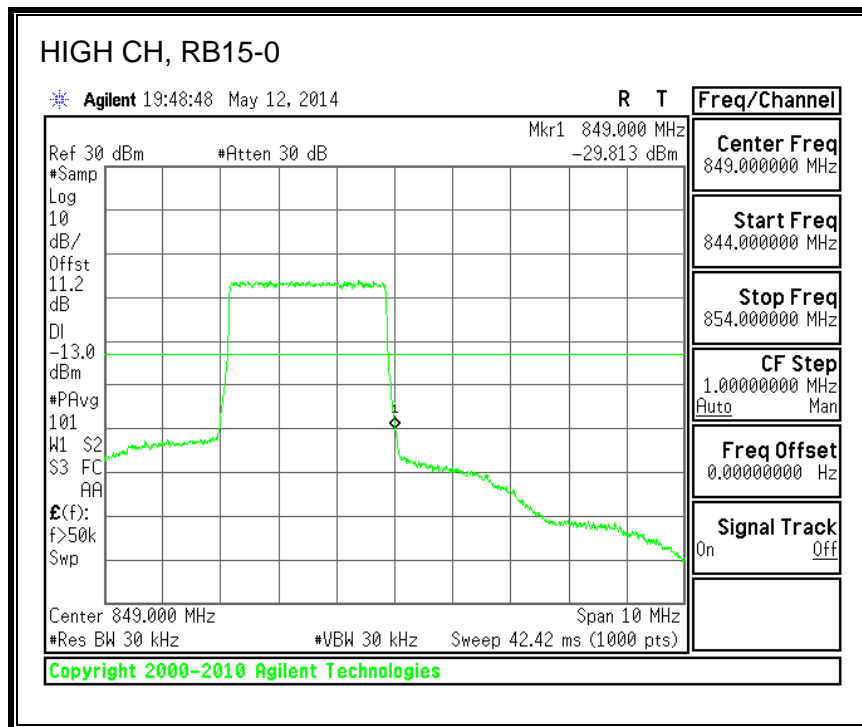
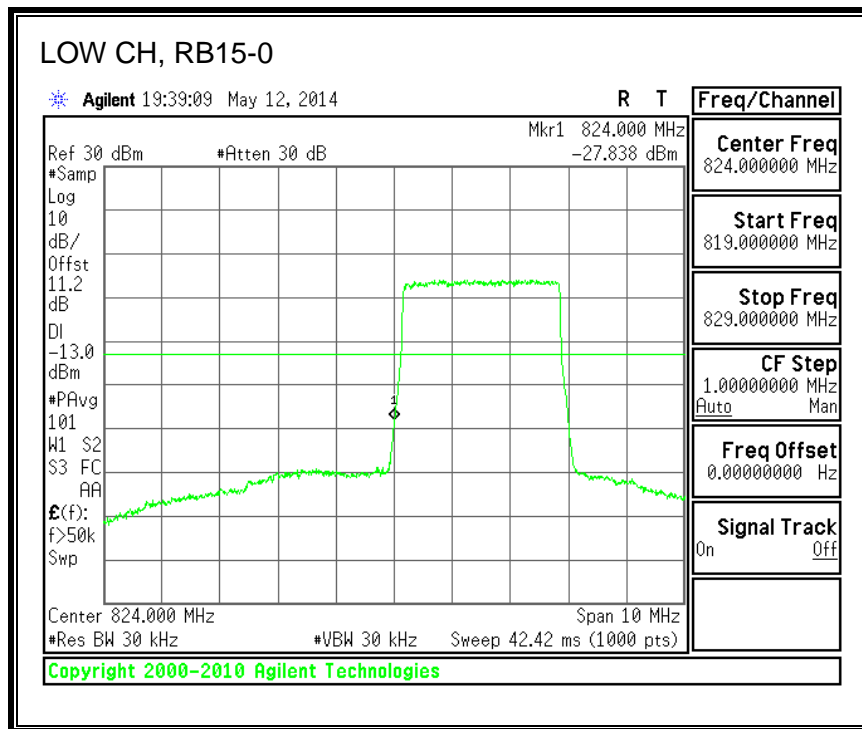


16QAM, (3.0 MHz BAND WIDTH)

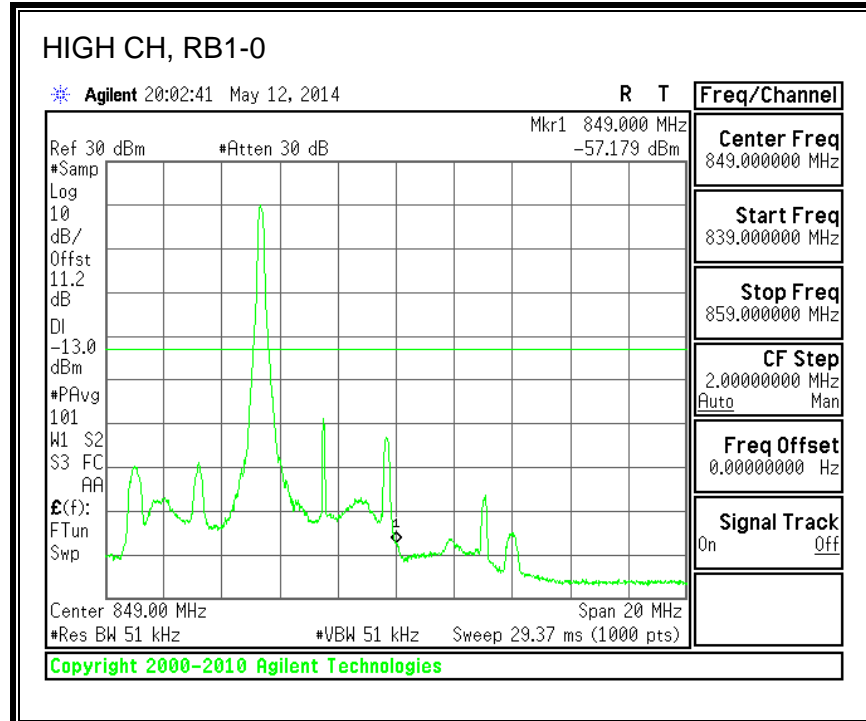
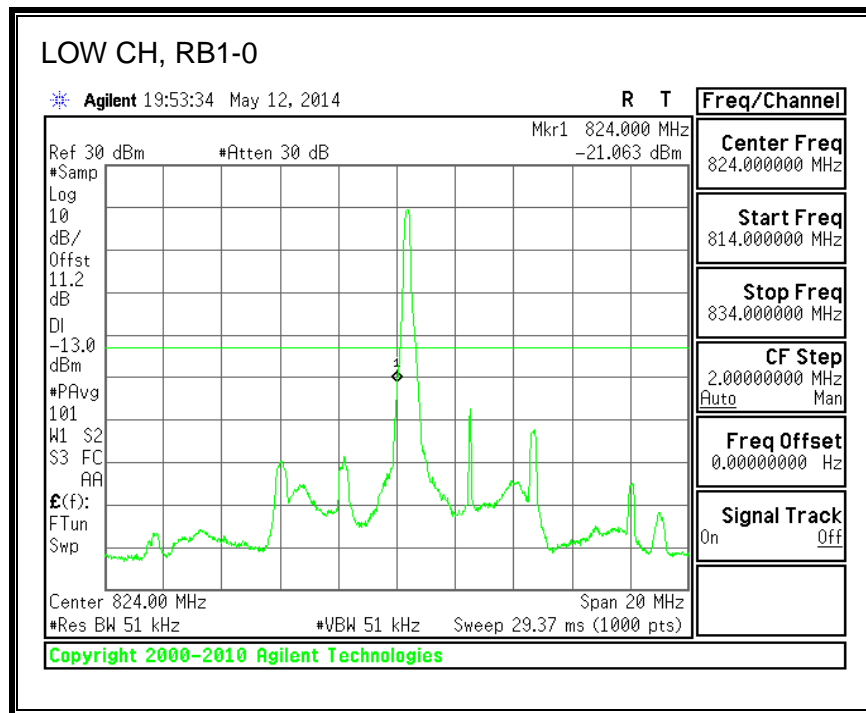


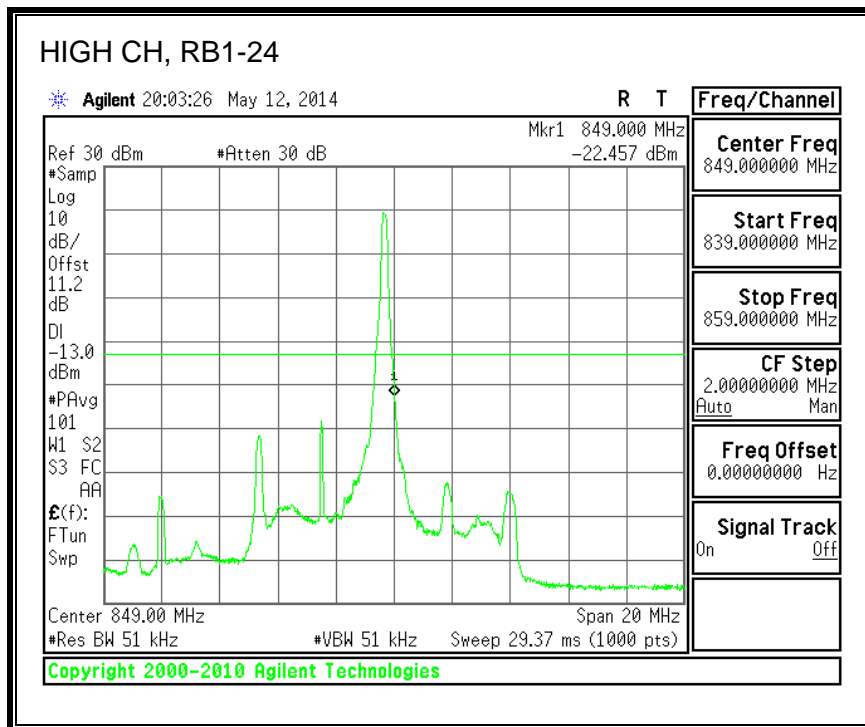
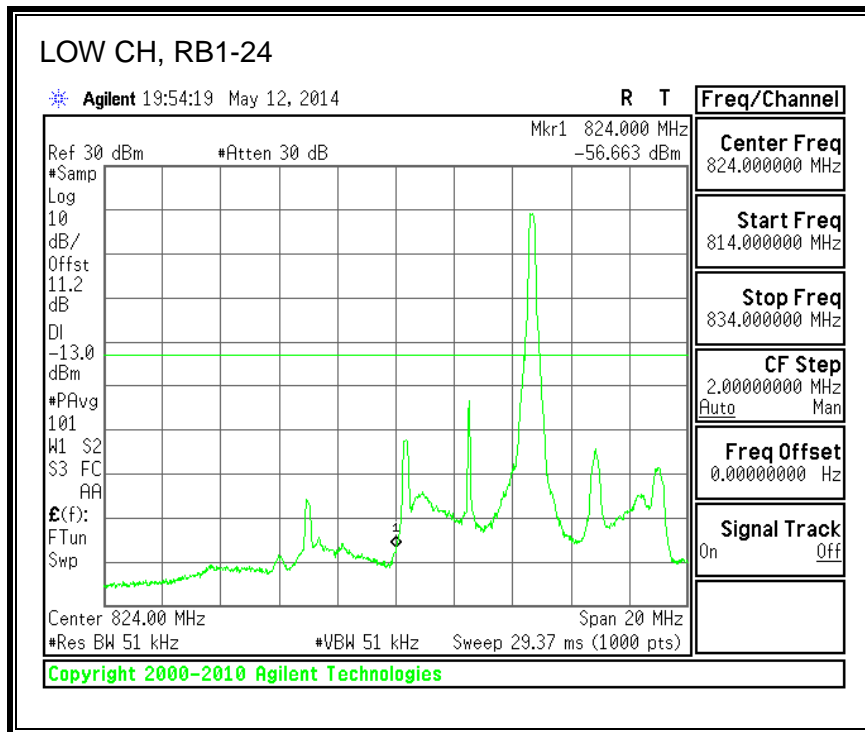


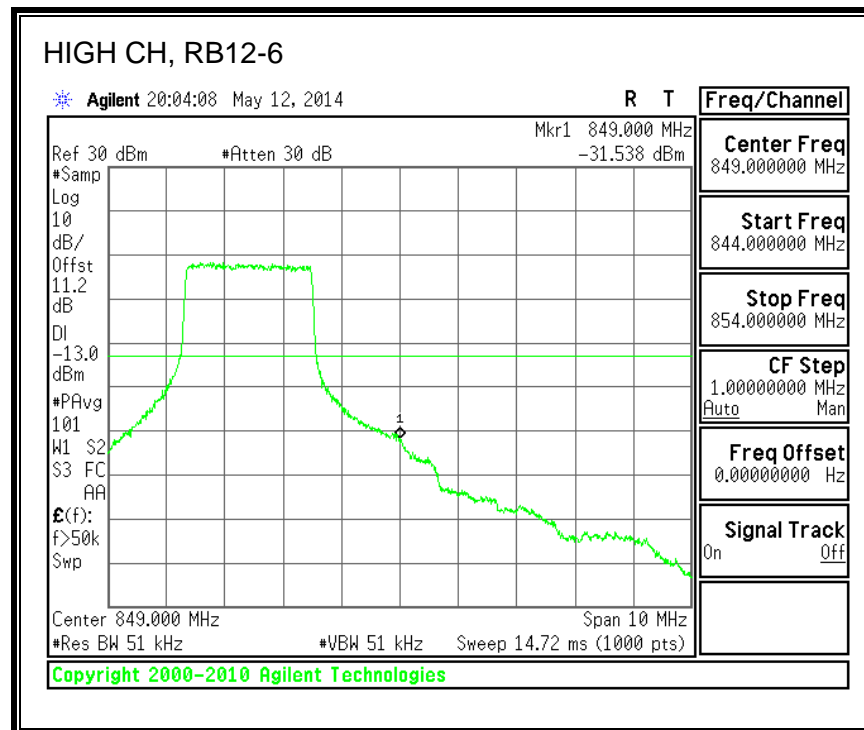
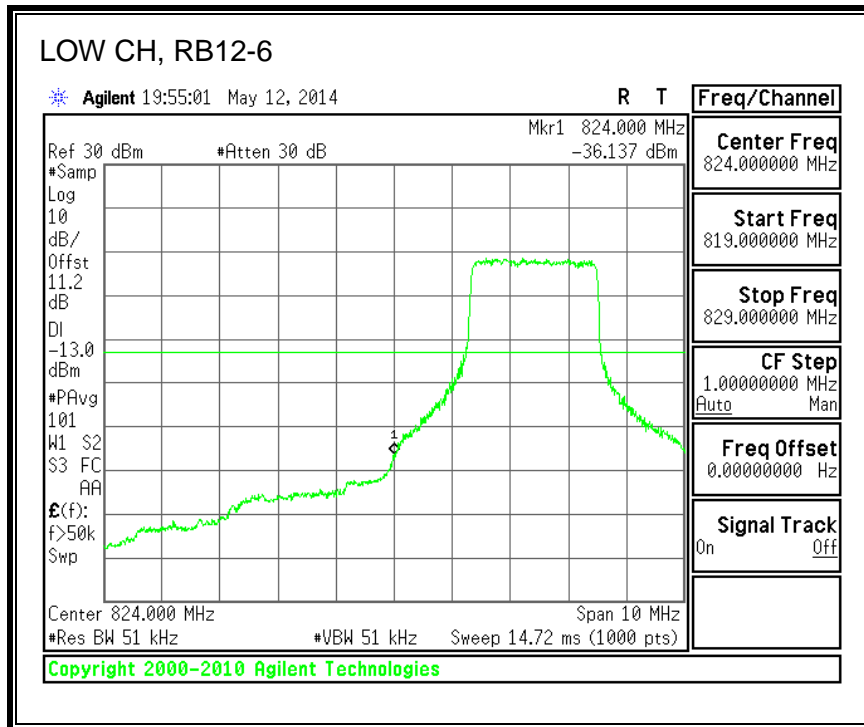


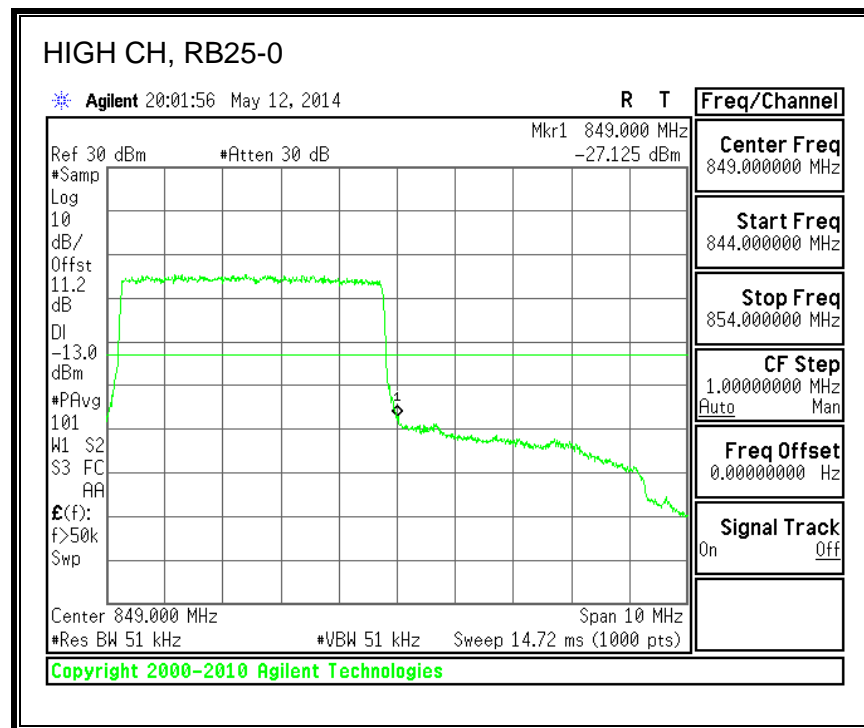
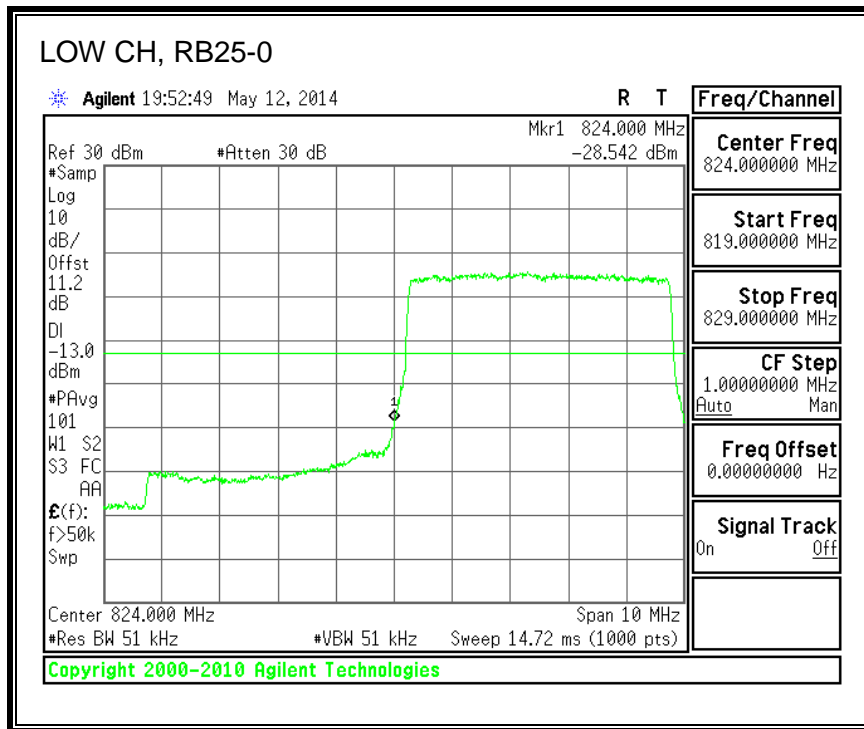


QPSK, (5.0 MHz BAND WIDTH)

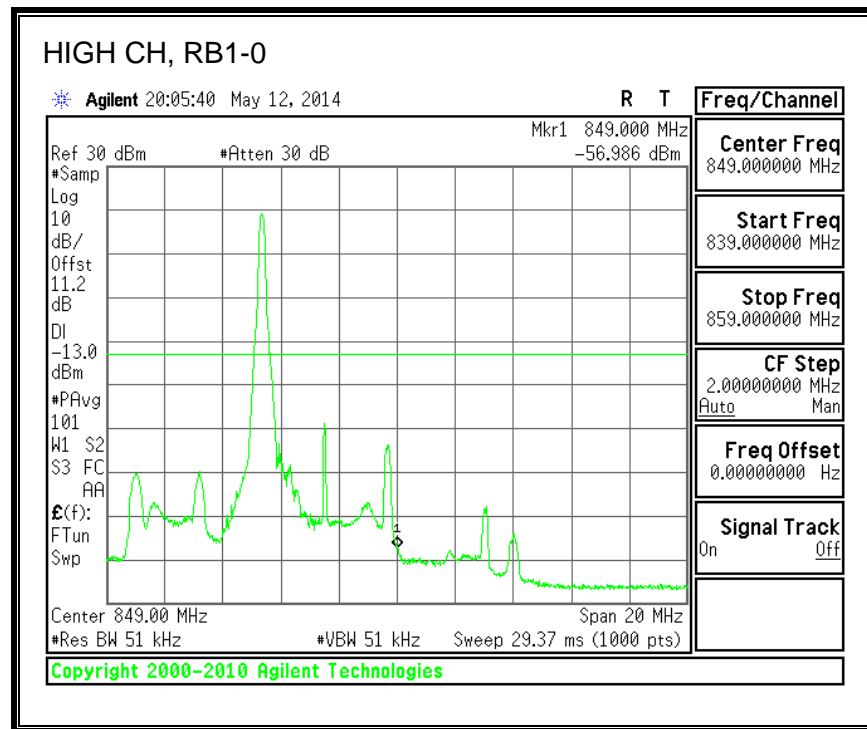
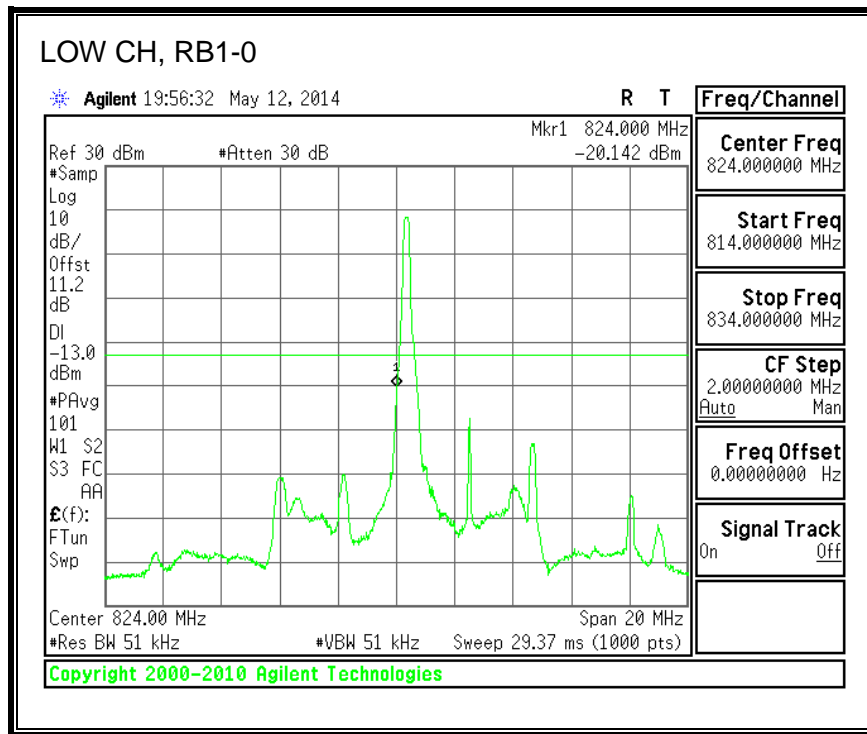


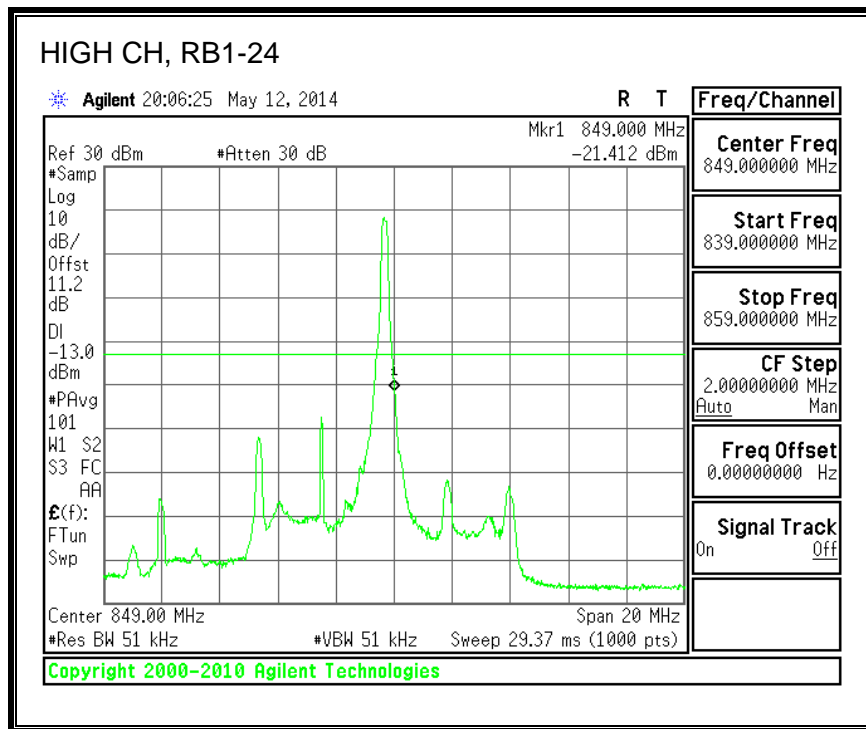
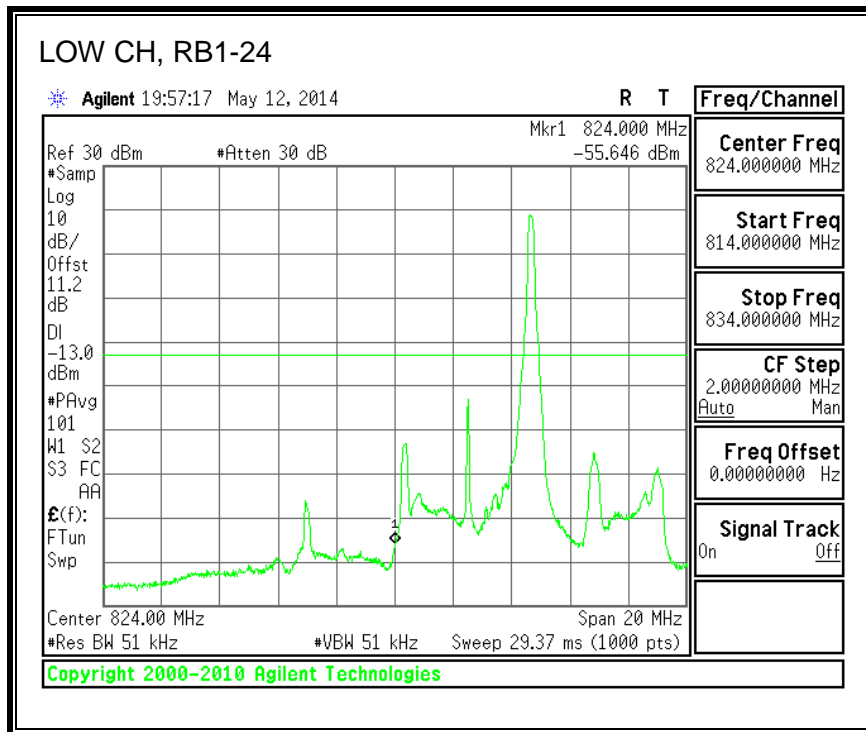


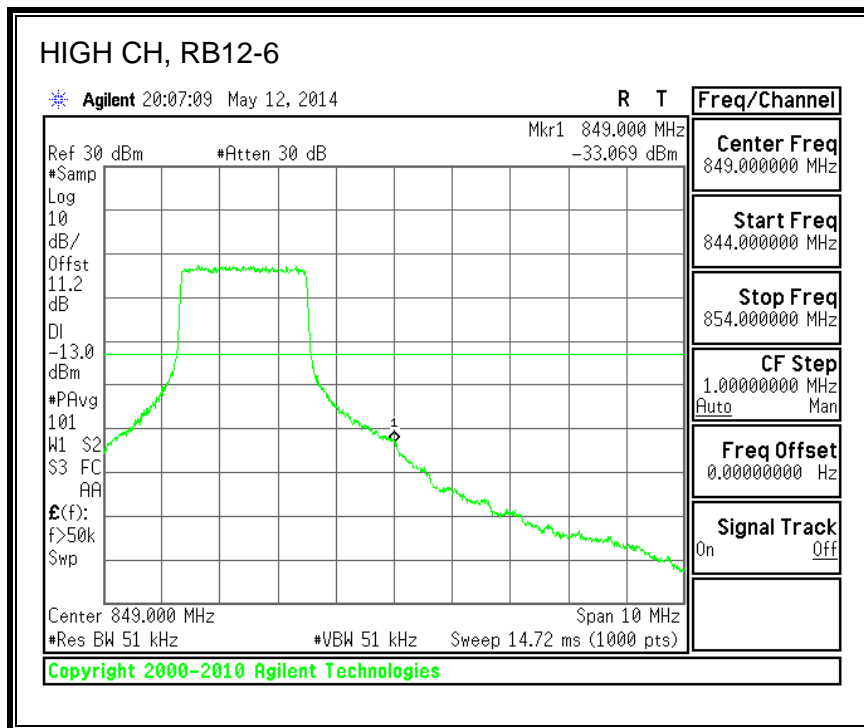
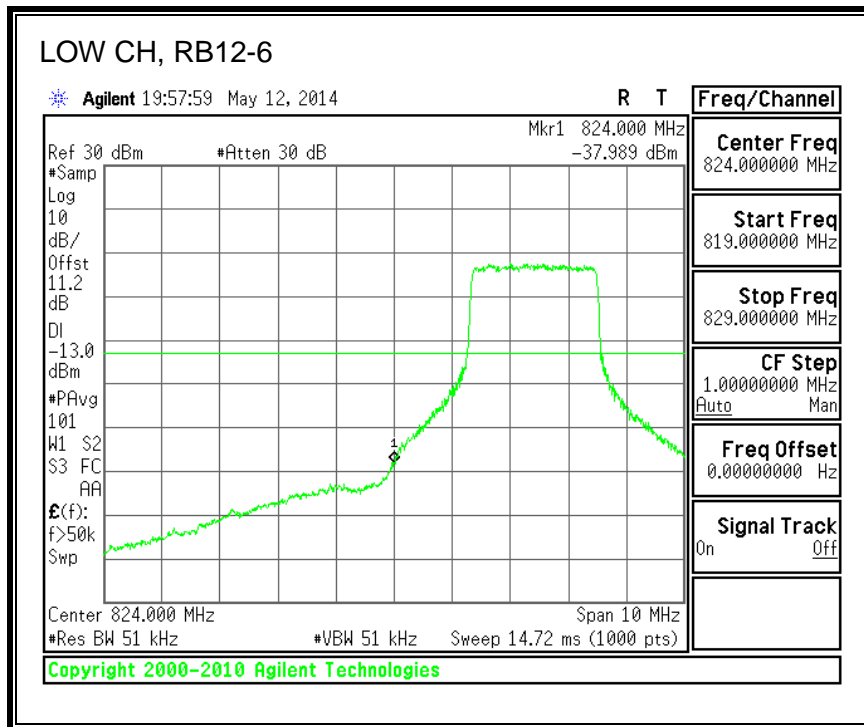




16QAM, (5.0 MHz BAND WIDTH)





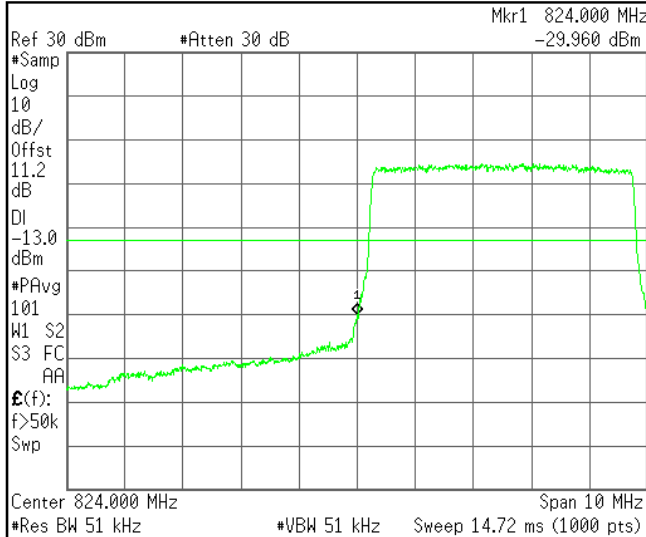


LOW CH, RB25-0

Agilent 19:55:47 May 12, 2014

R T

Freq/Channel



Center Freq
824.000000 MHz

Start Freq
819.000000 MHz

Stop Freq
829.000000 MHz

CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

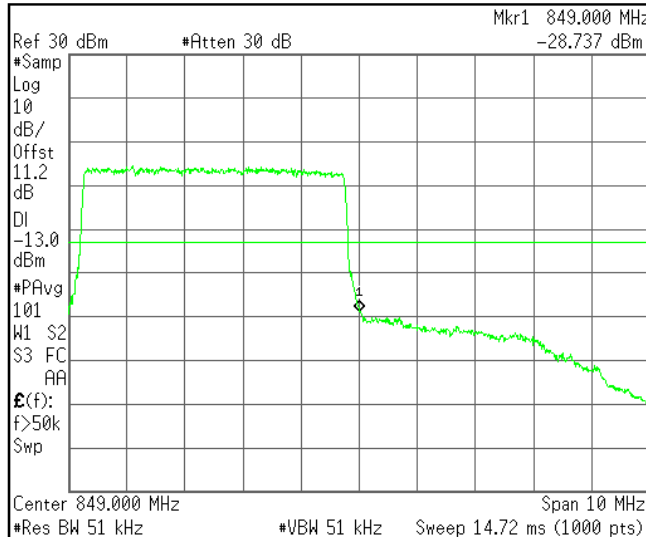
Copyright 2000-2010 Agilent Technologies

HIGH CH, RB25-0

Agilent 20:04:55 May 12, 2014

R T

Freq/Channel



Center Freq
849.000000 MHz

Start Freq
844.000000 MHz

Stop Freq
854.000000 MHz

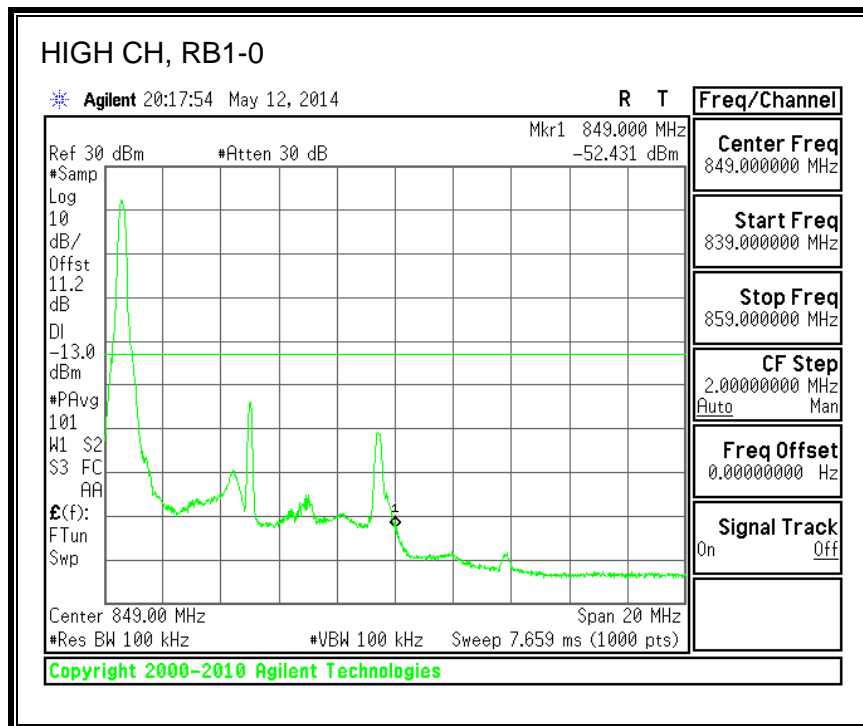
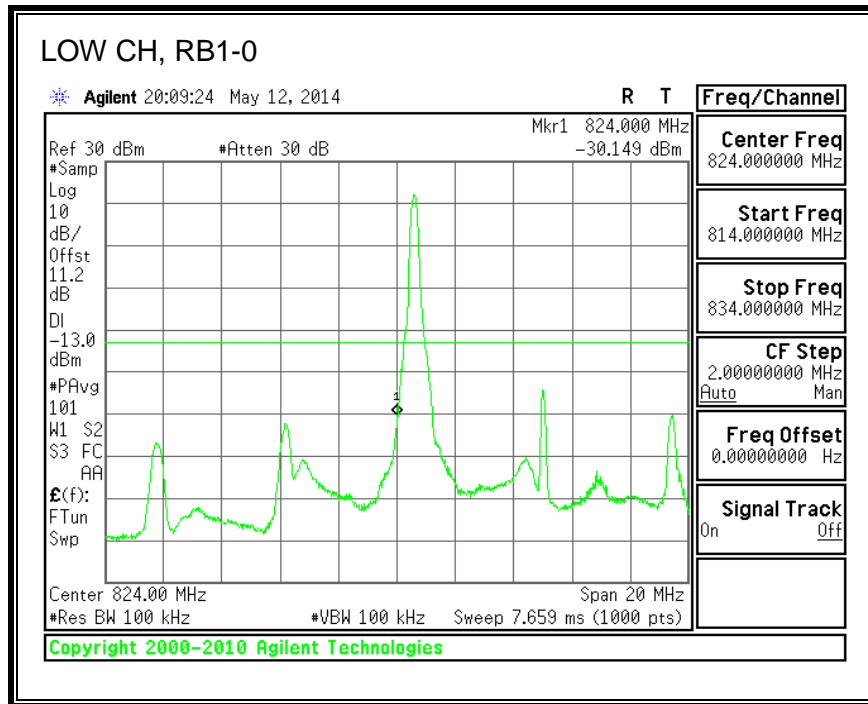
CF Step
1.00000000 MHz
Auto Man

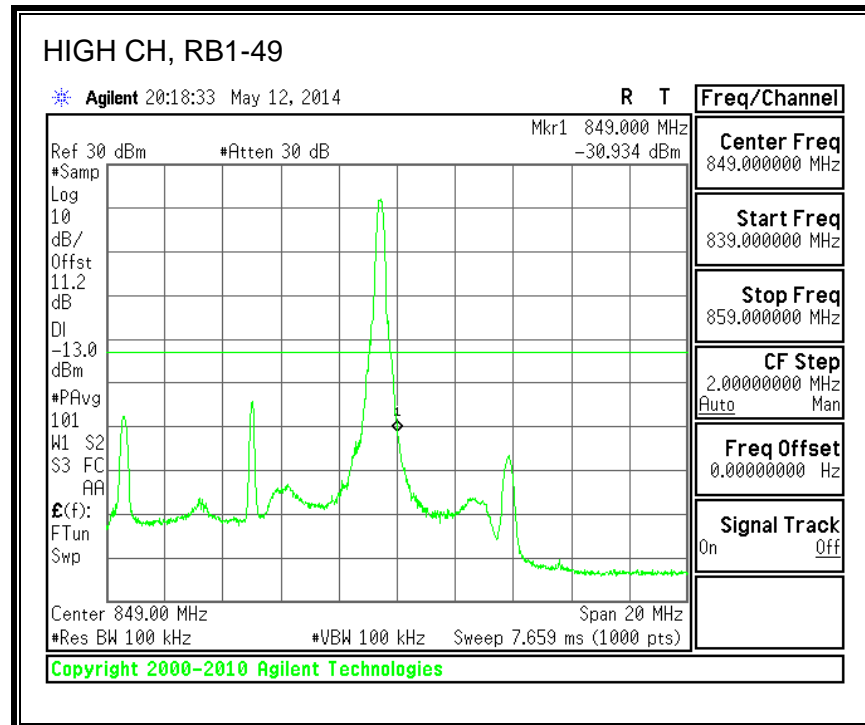
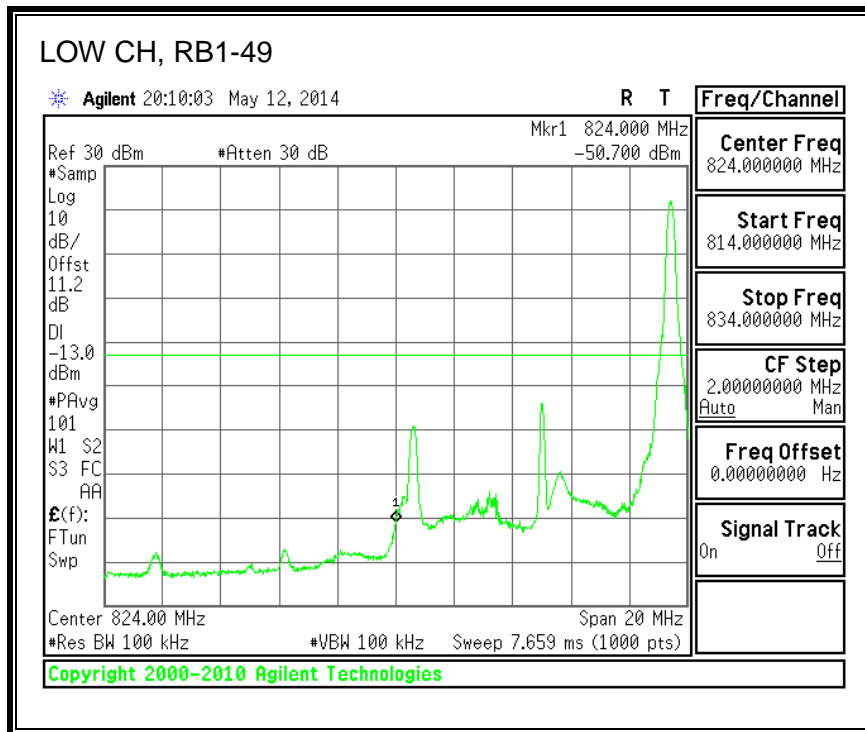
Freq Offset
0.00000000 Hz

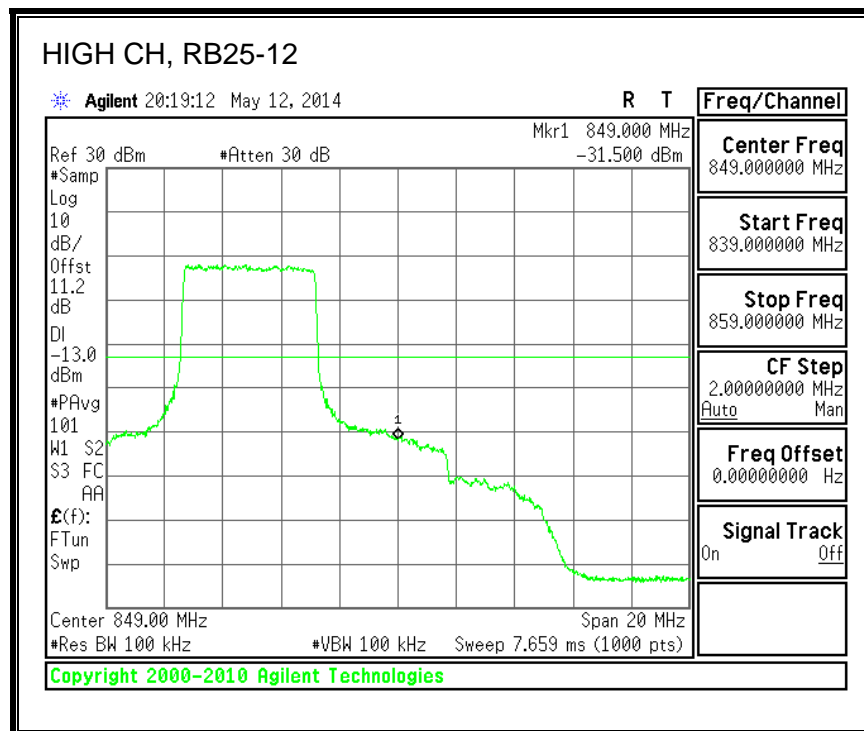
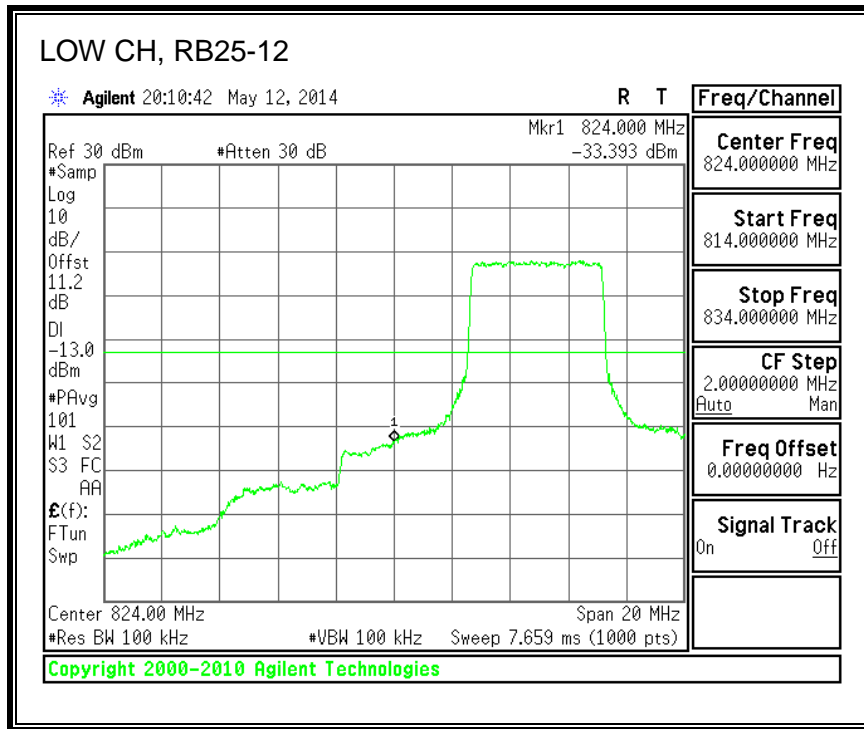
Signal Track
On Off

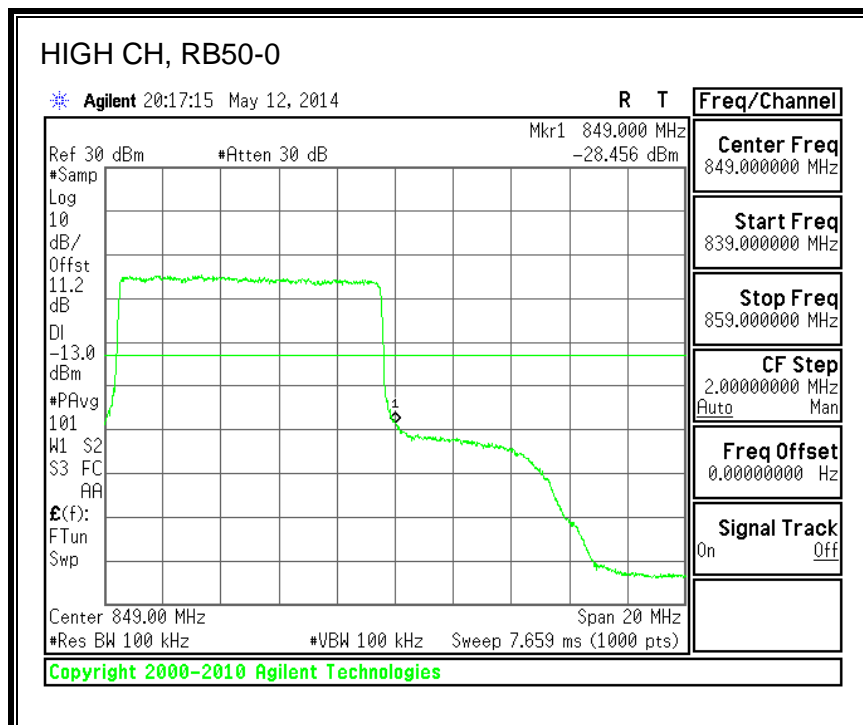
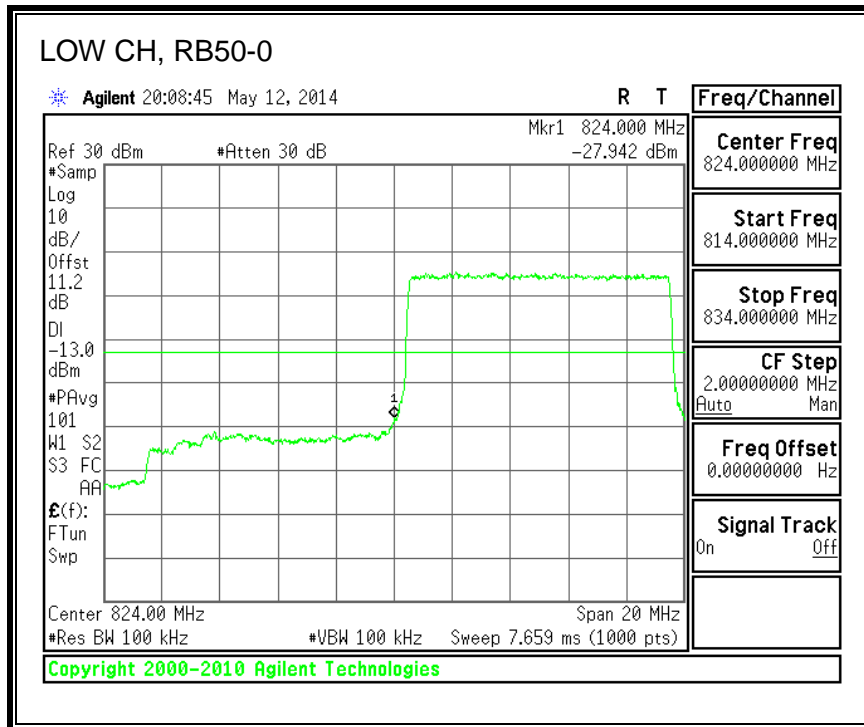
Copyright 2000-2010 Agilent Technologies

QPSK, (10.0 MHz BAND WIDTH)

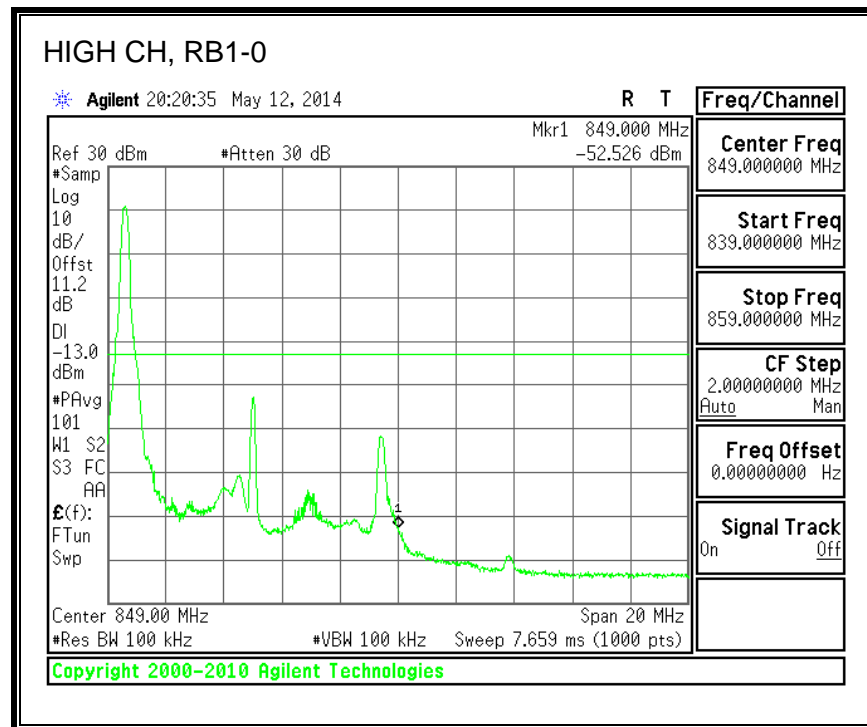
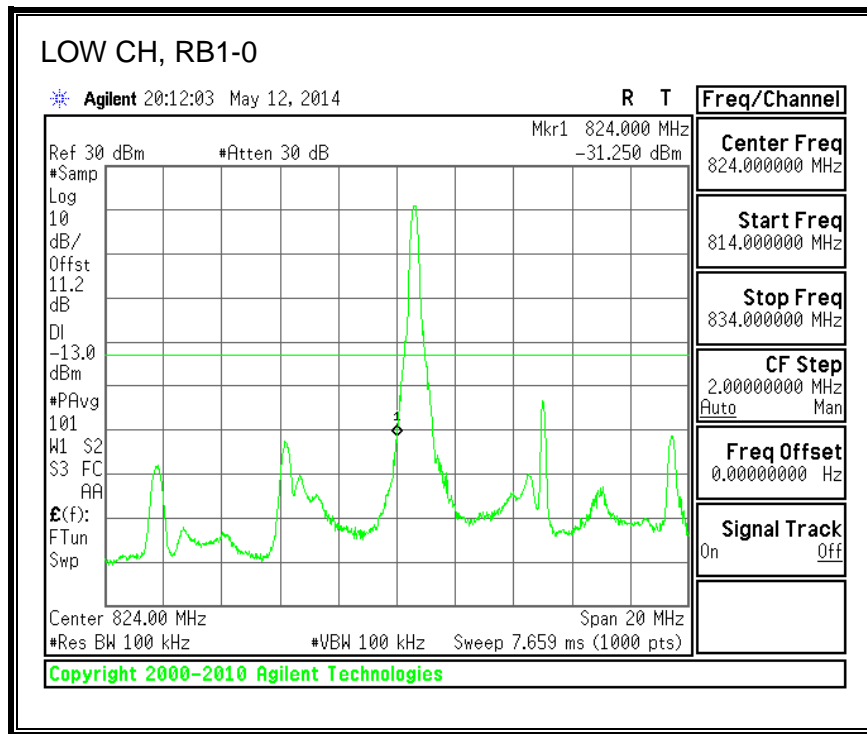


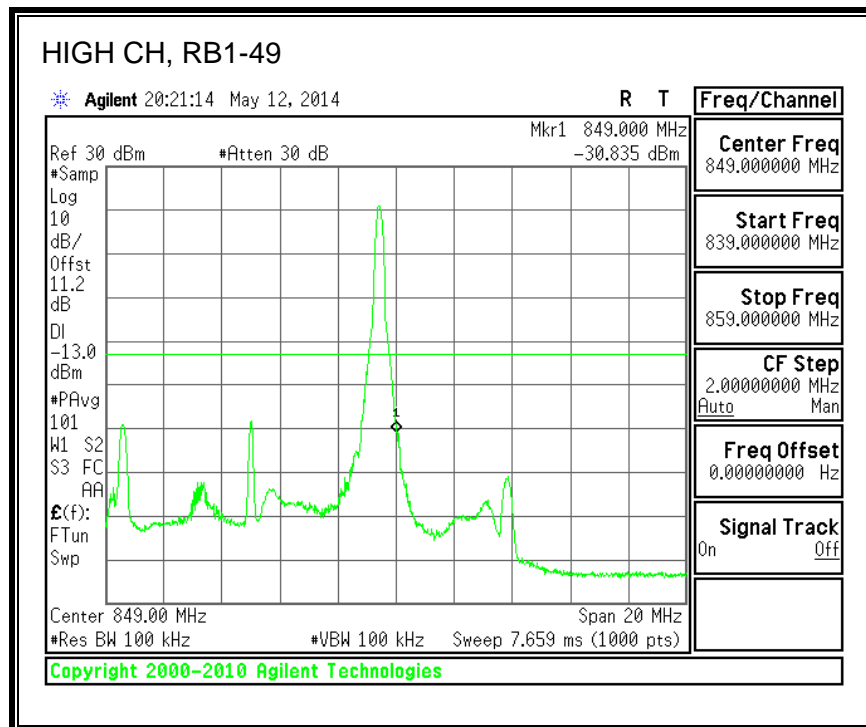
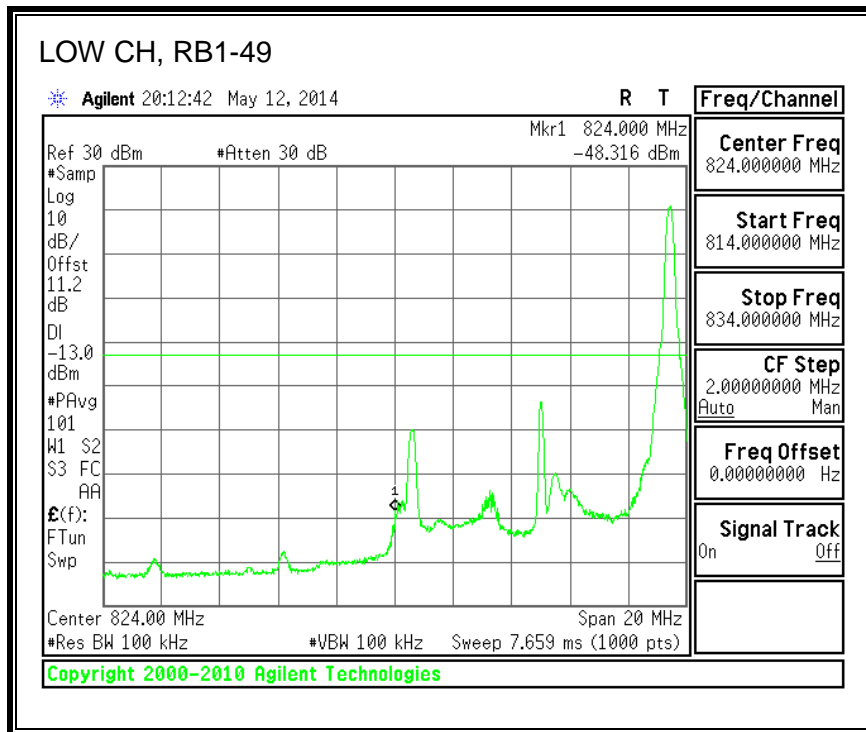


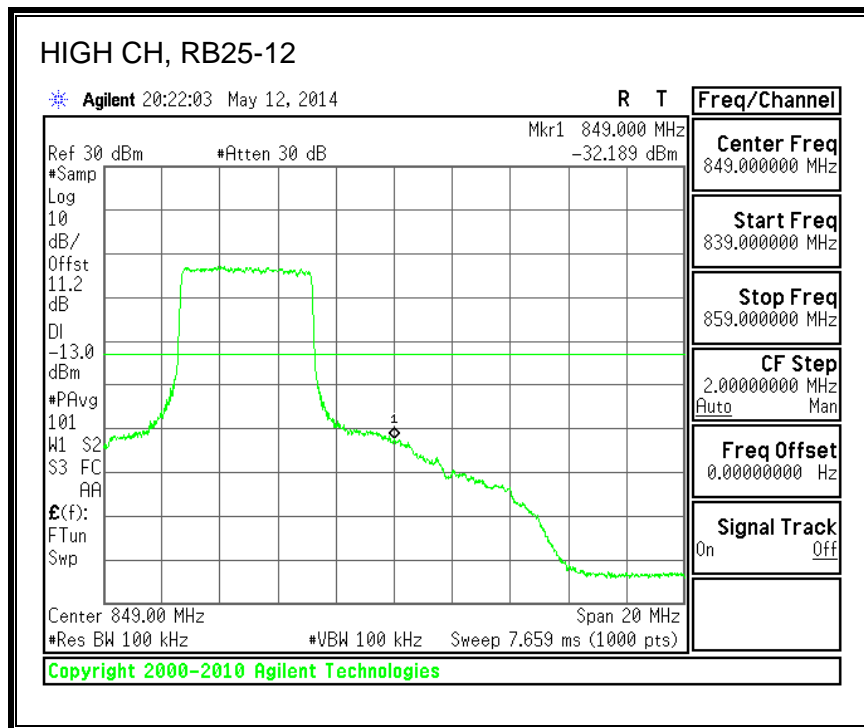
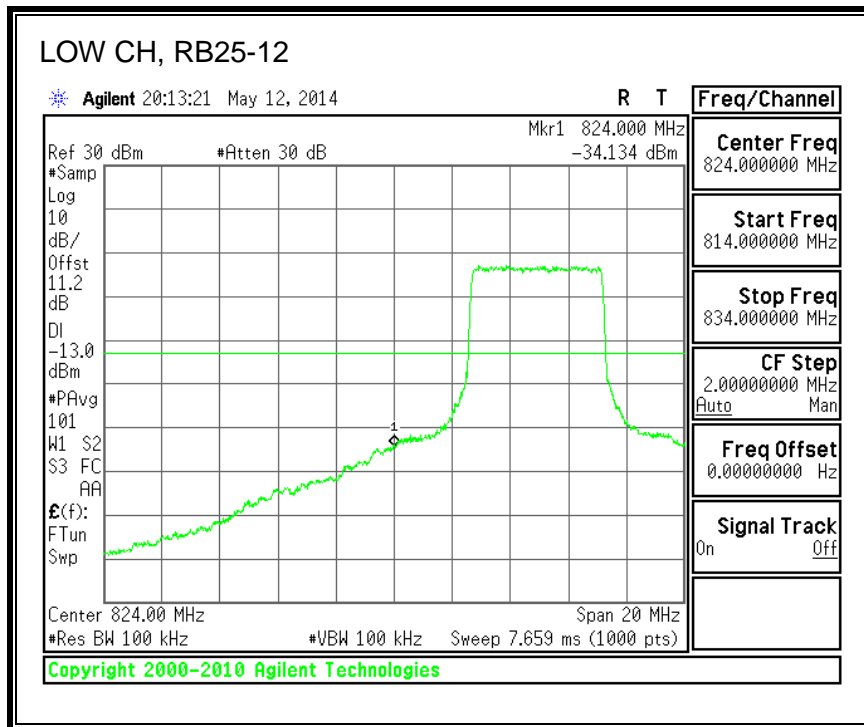


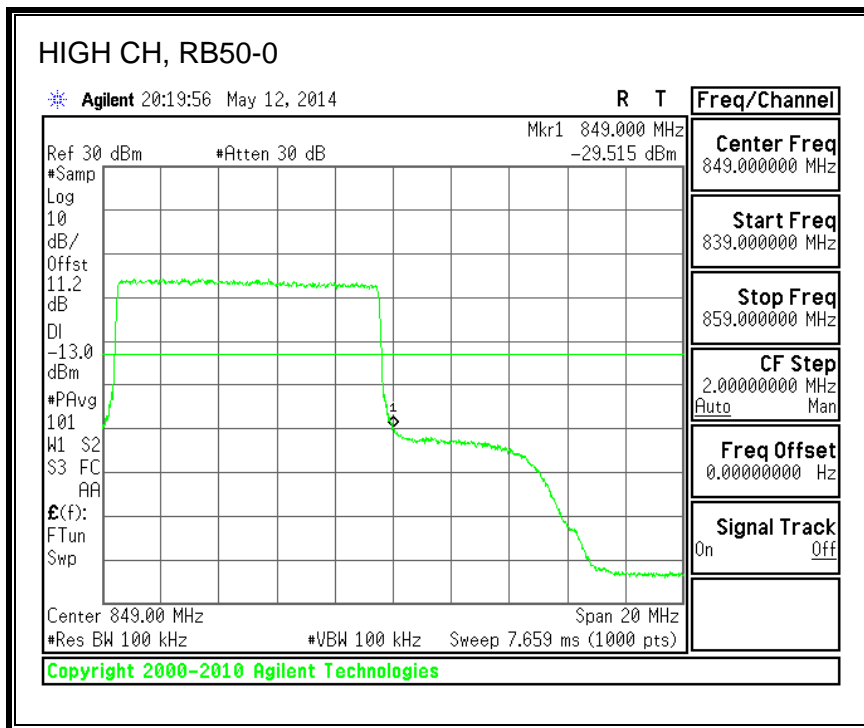
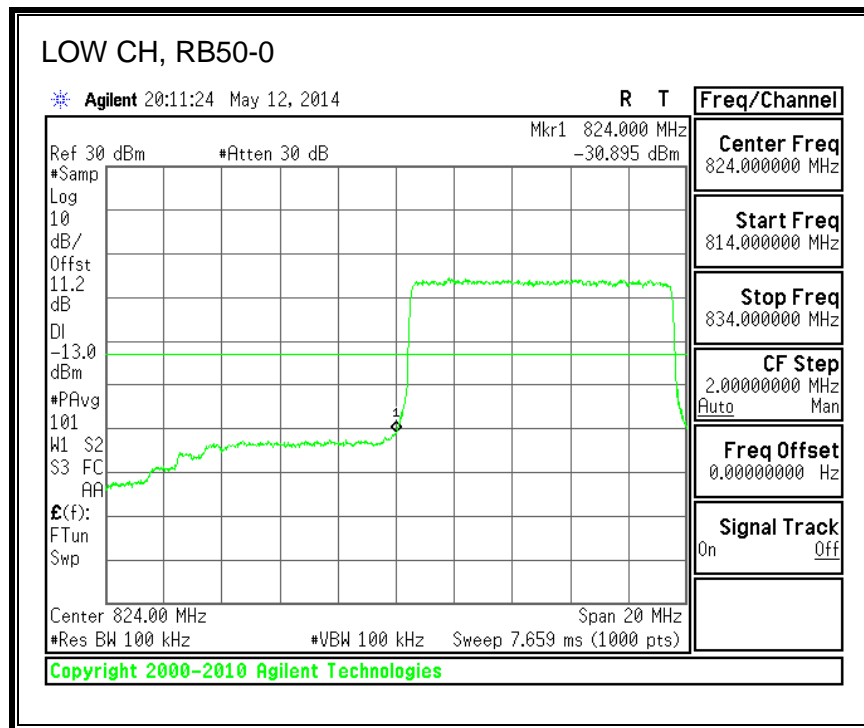


16QAM, (10.0 MHz BAND WIDTH)



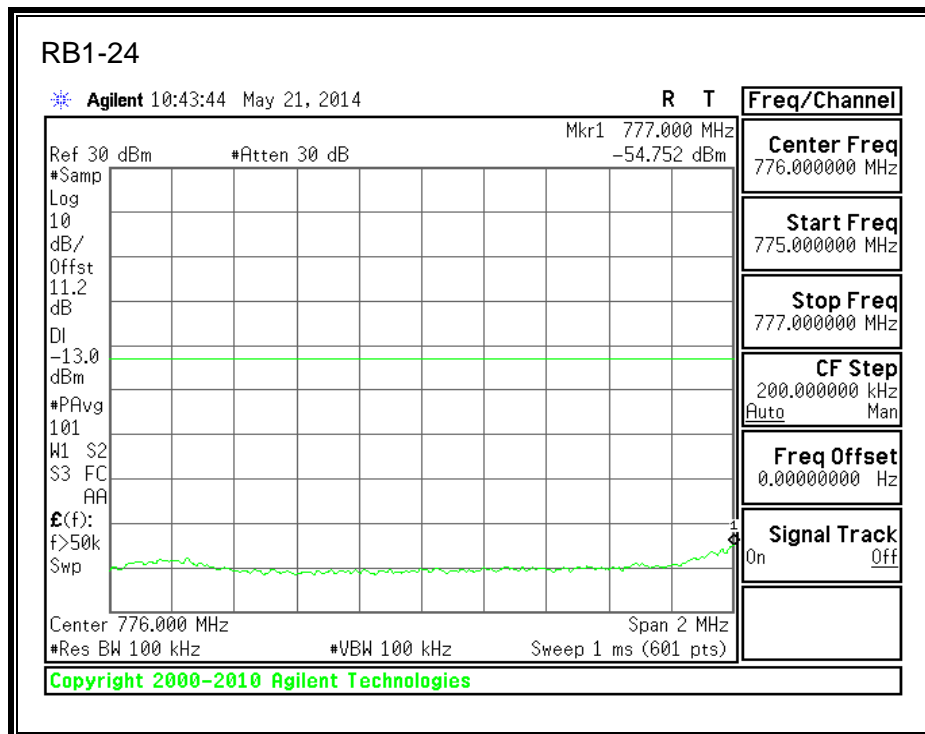
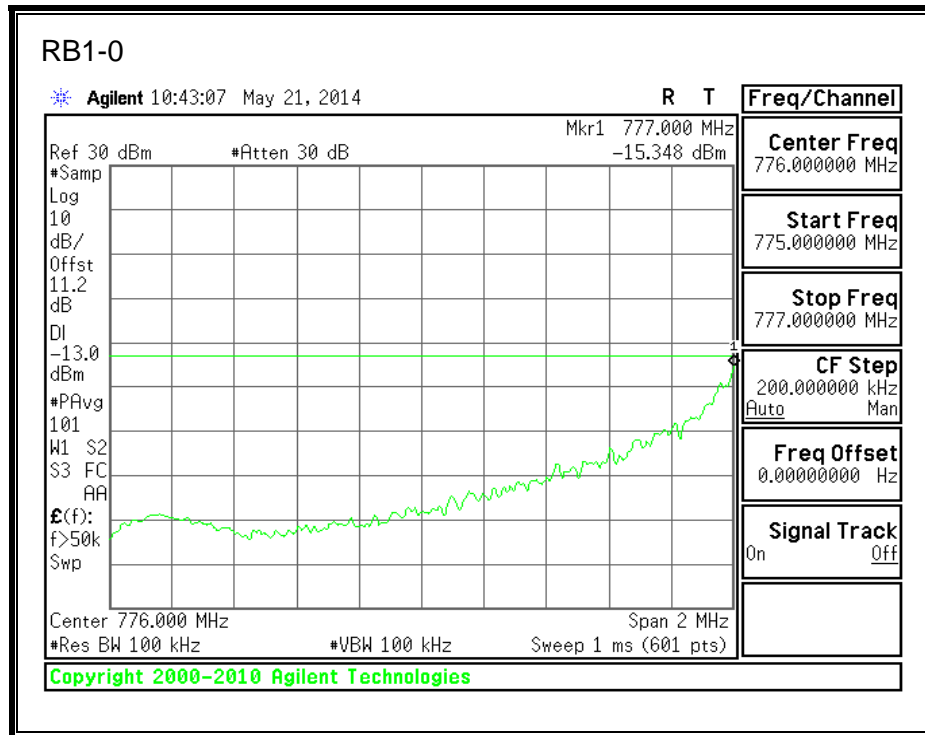


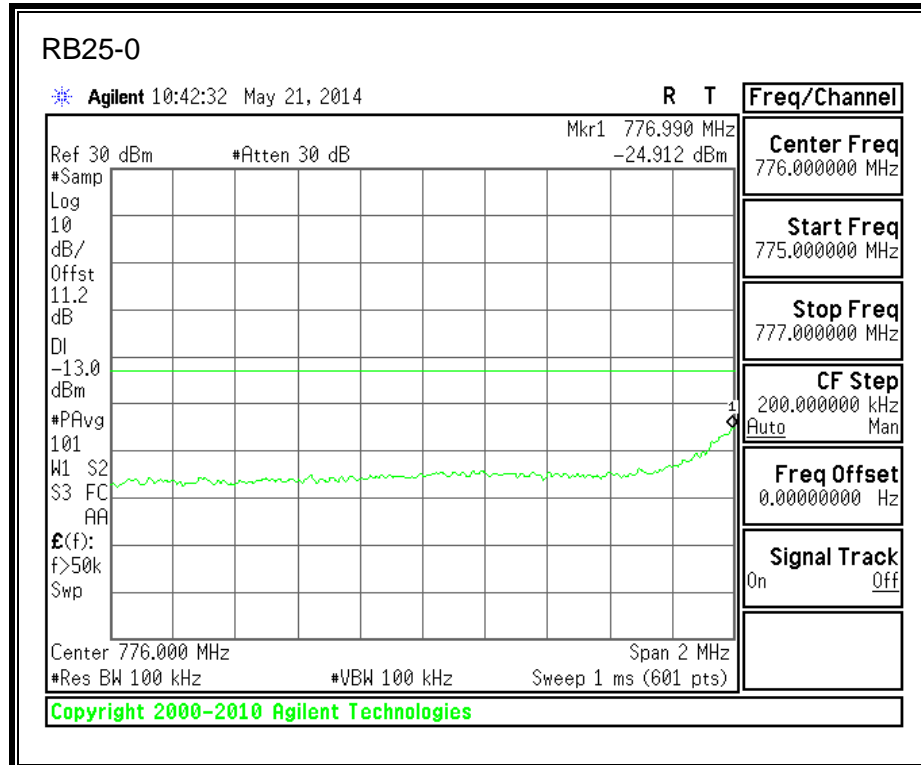
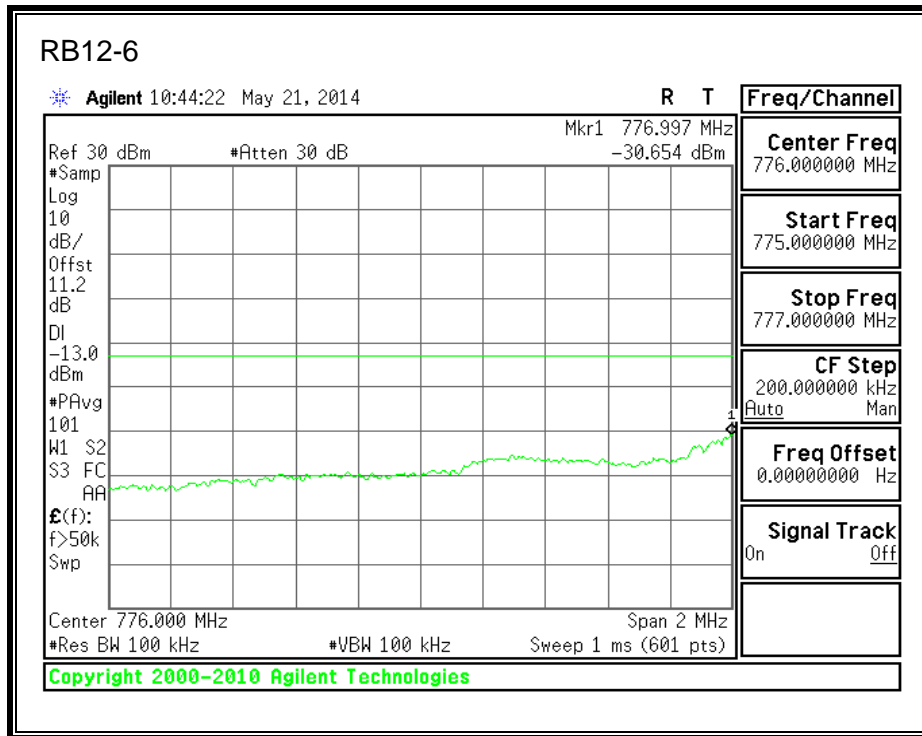




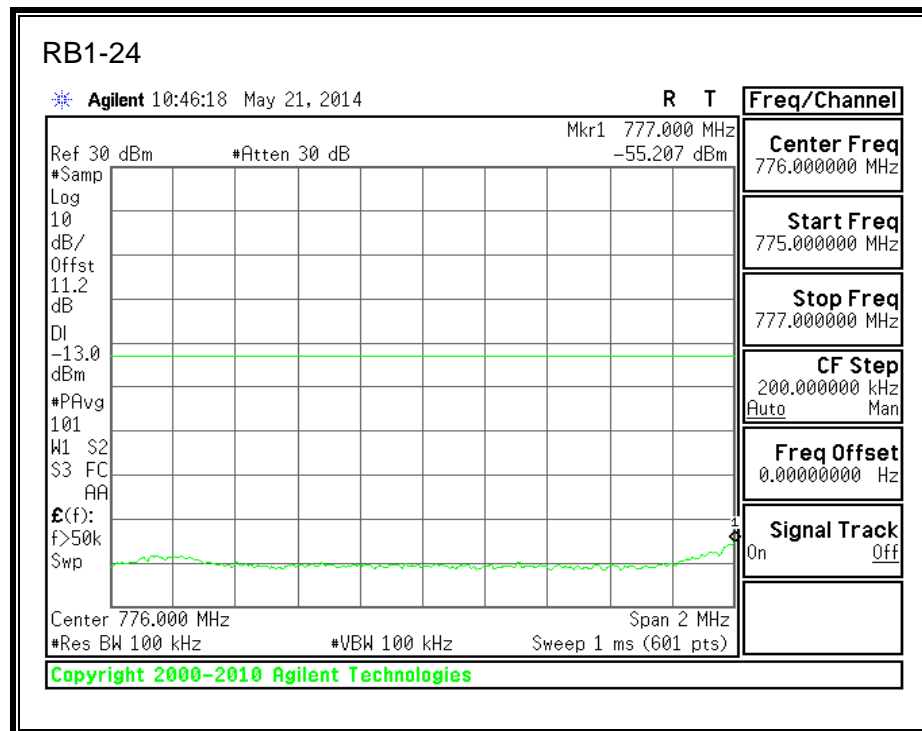
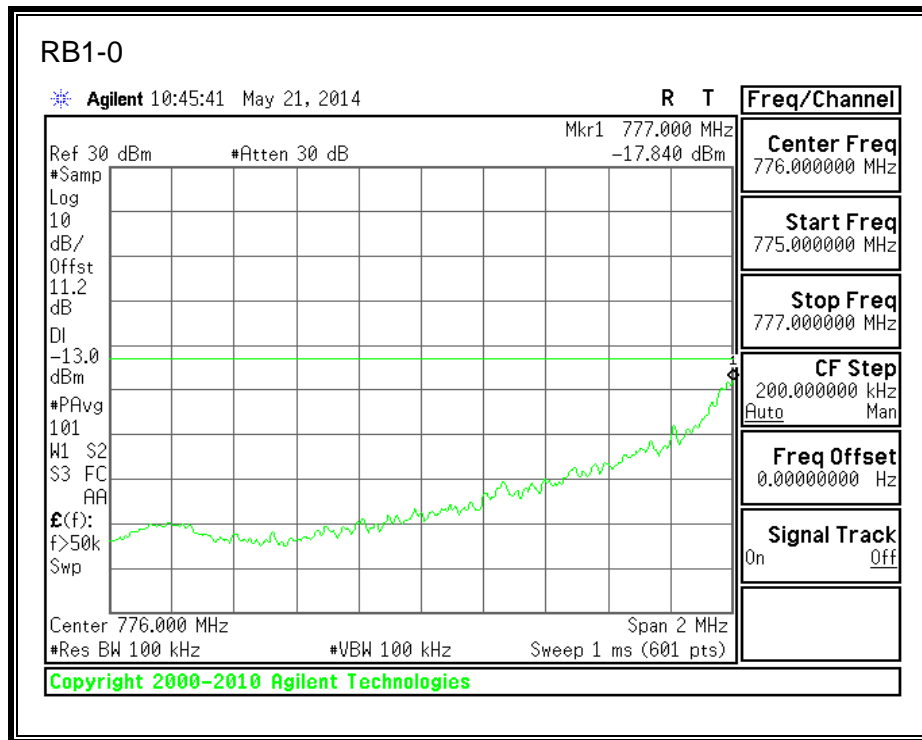
8.2.4. LTE BAND 13 BANDEDGE

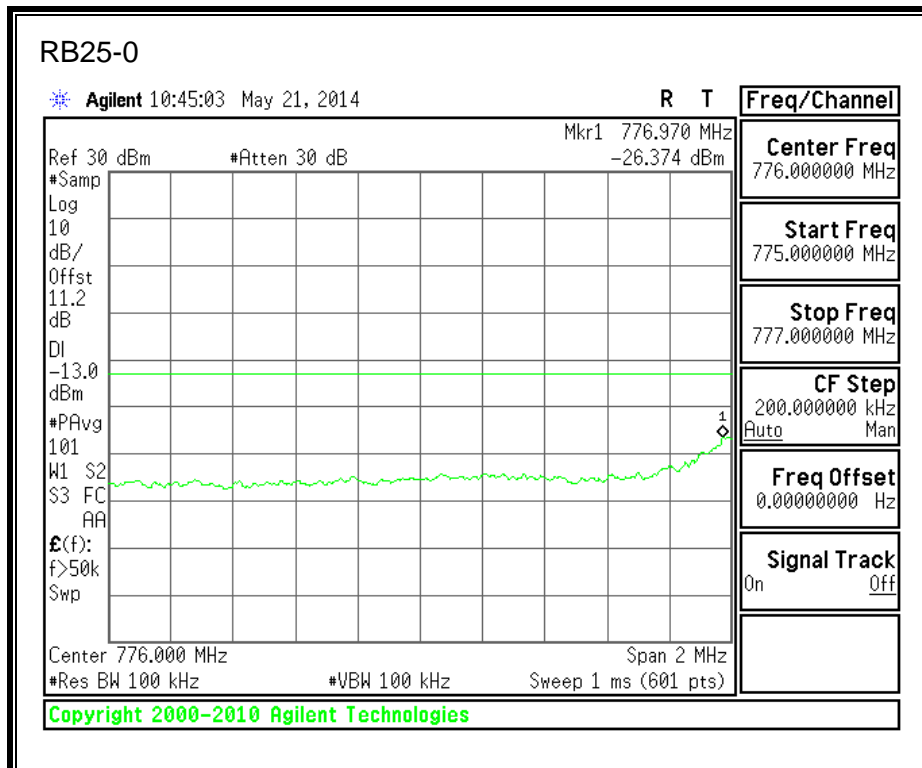
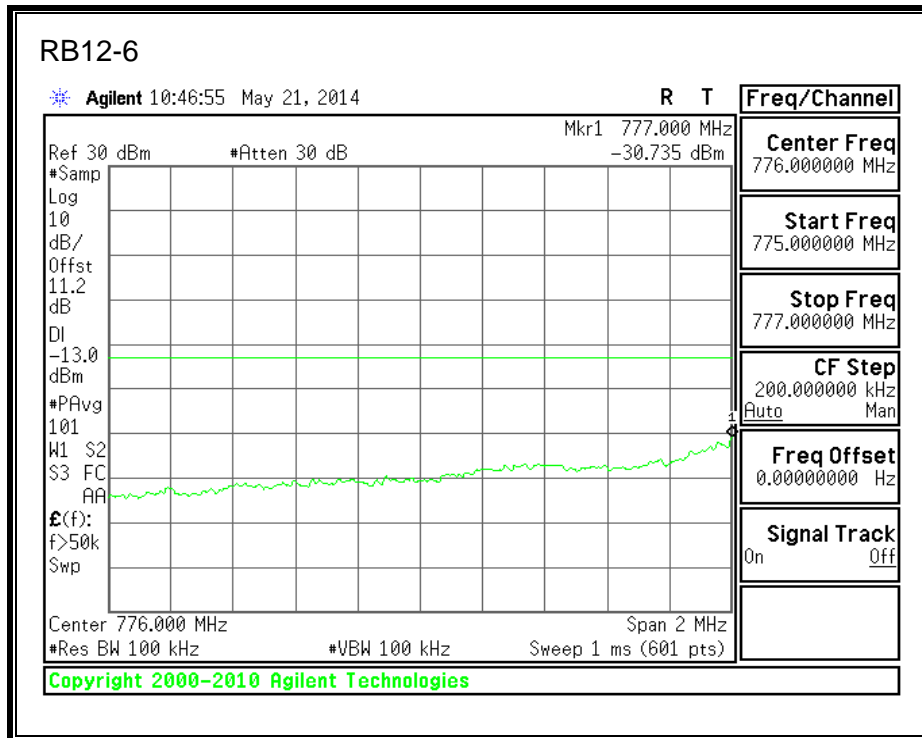
QPSK, 779.5 MHz, 775 – 777MHz, (5.0MHz Bandwidth)



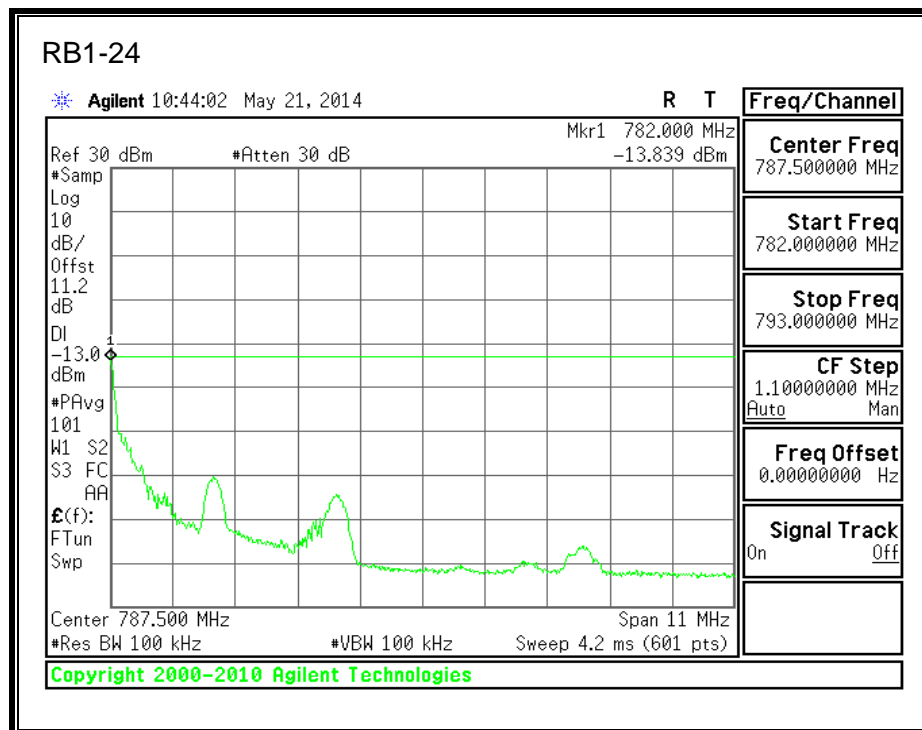
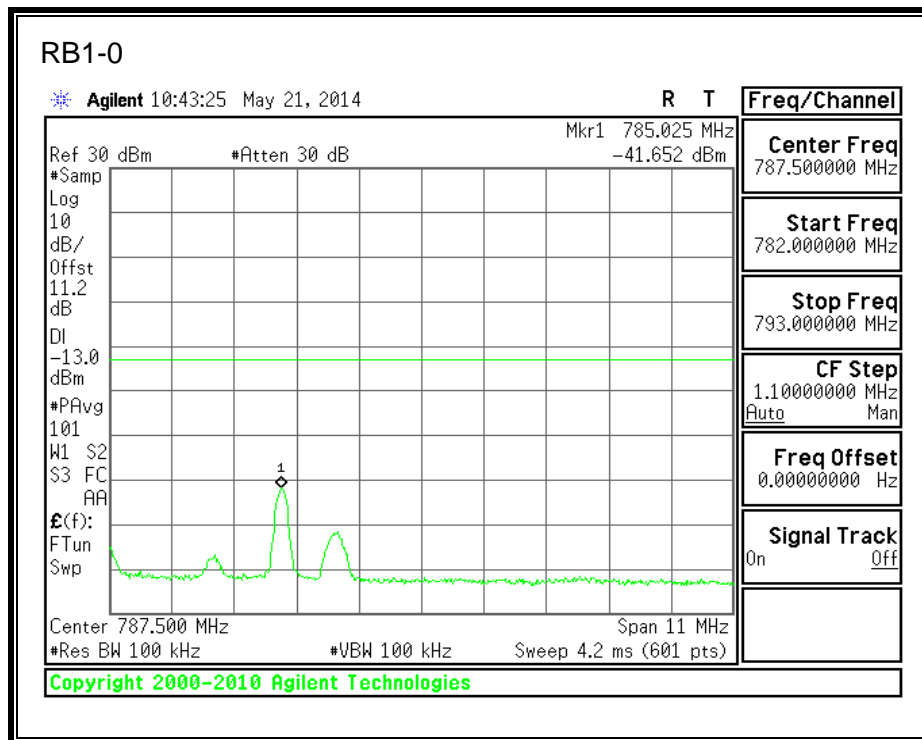


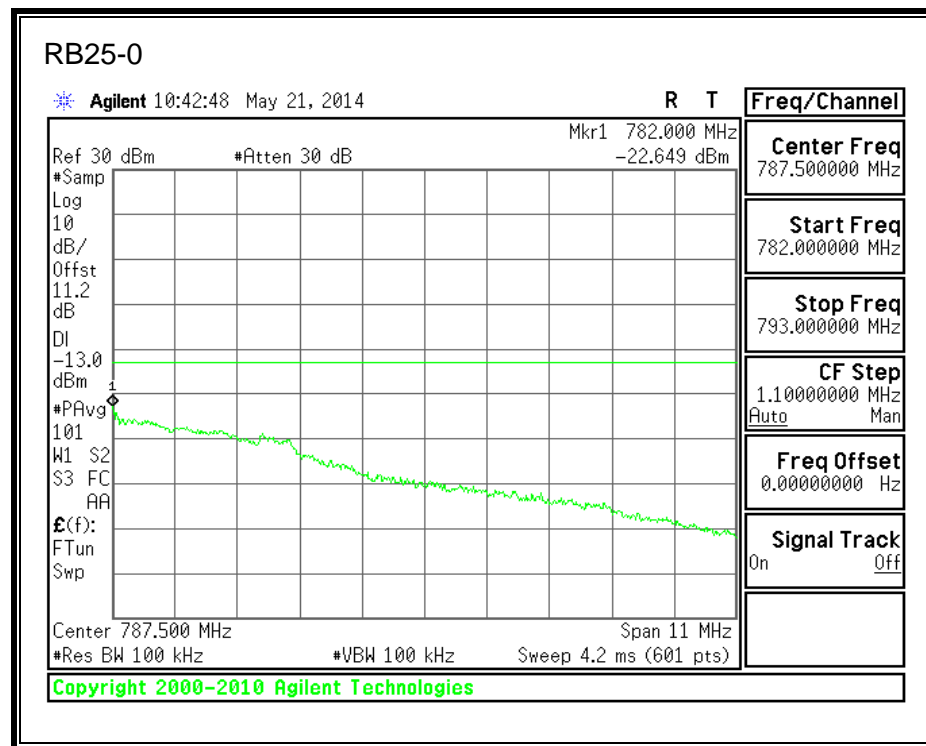
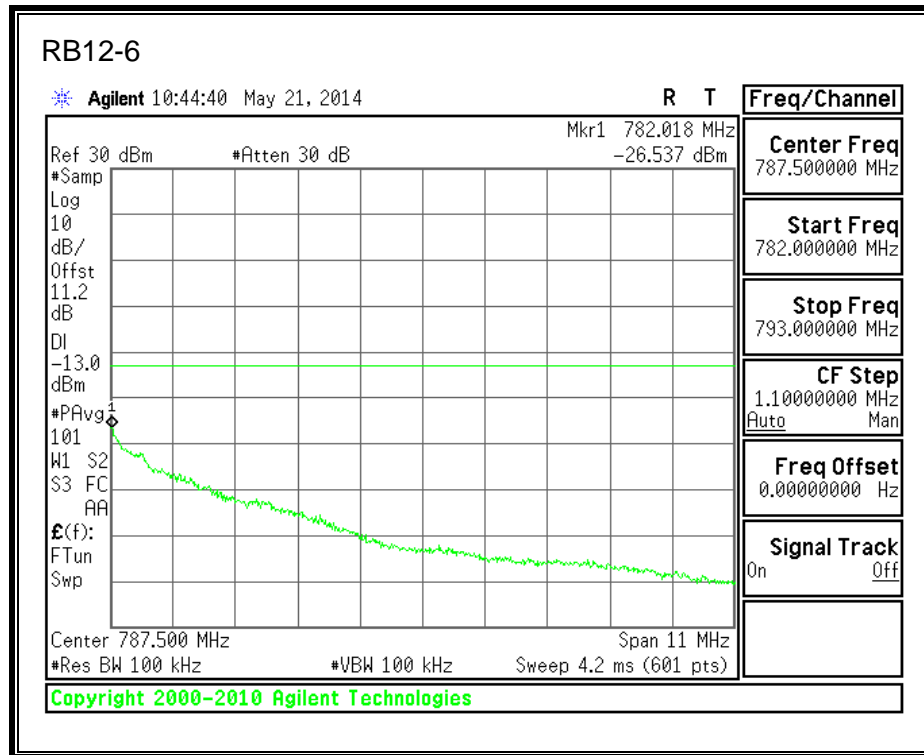
16QAM, 779.5MHz, 775 - 777MHz, (5MHz Bandwidth)



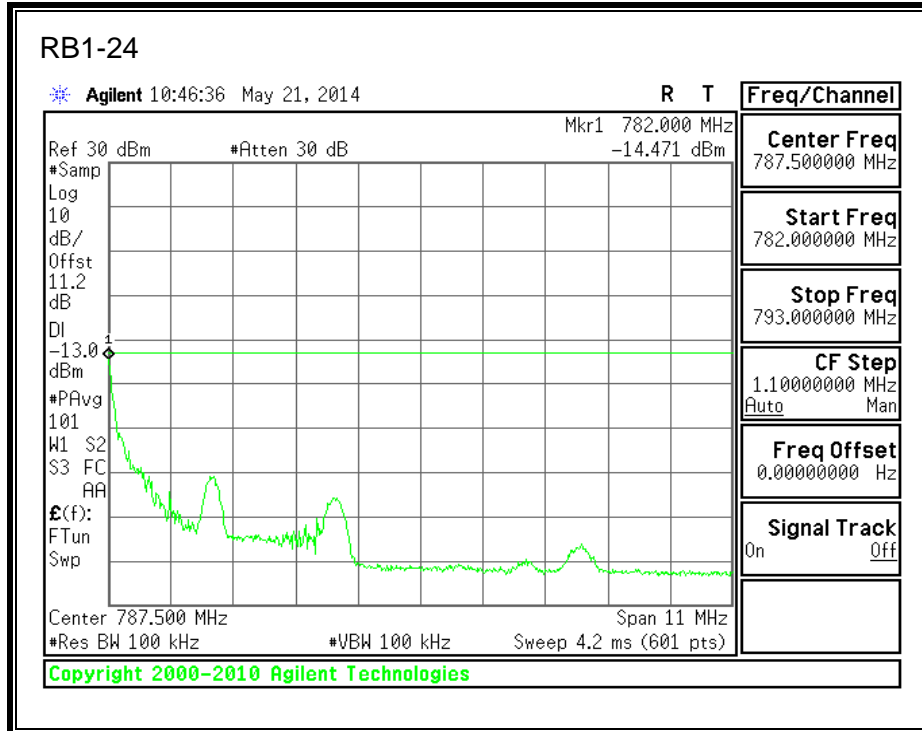
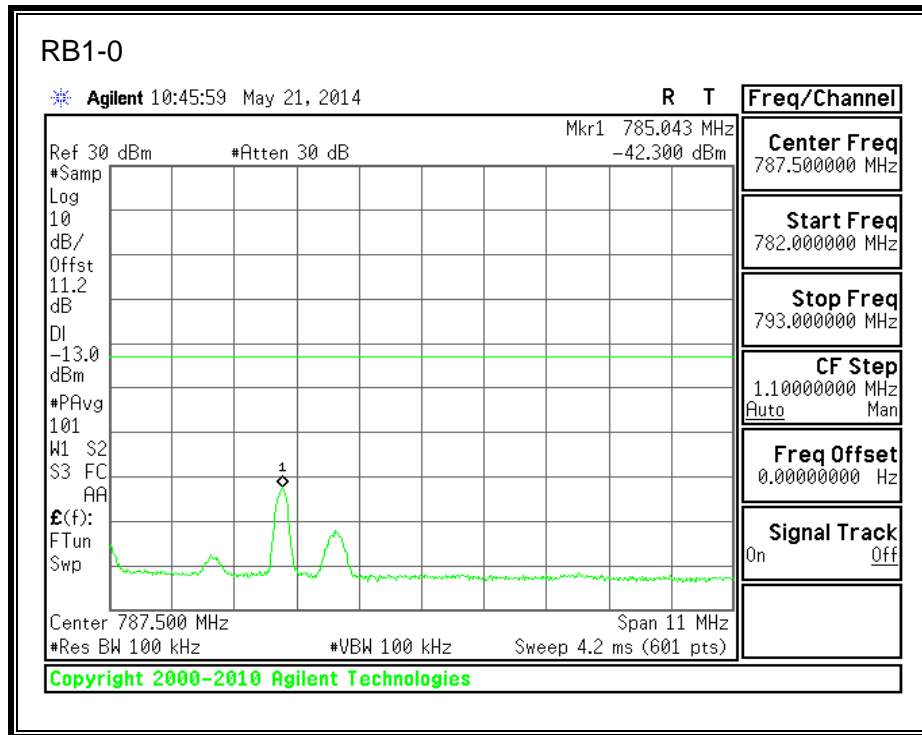


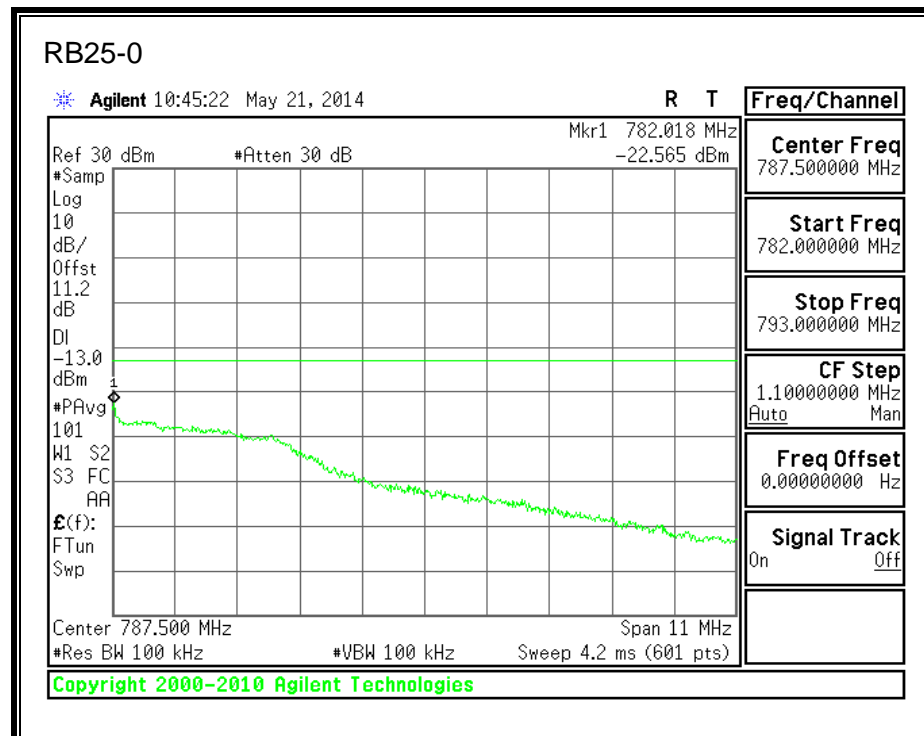
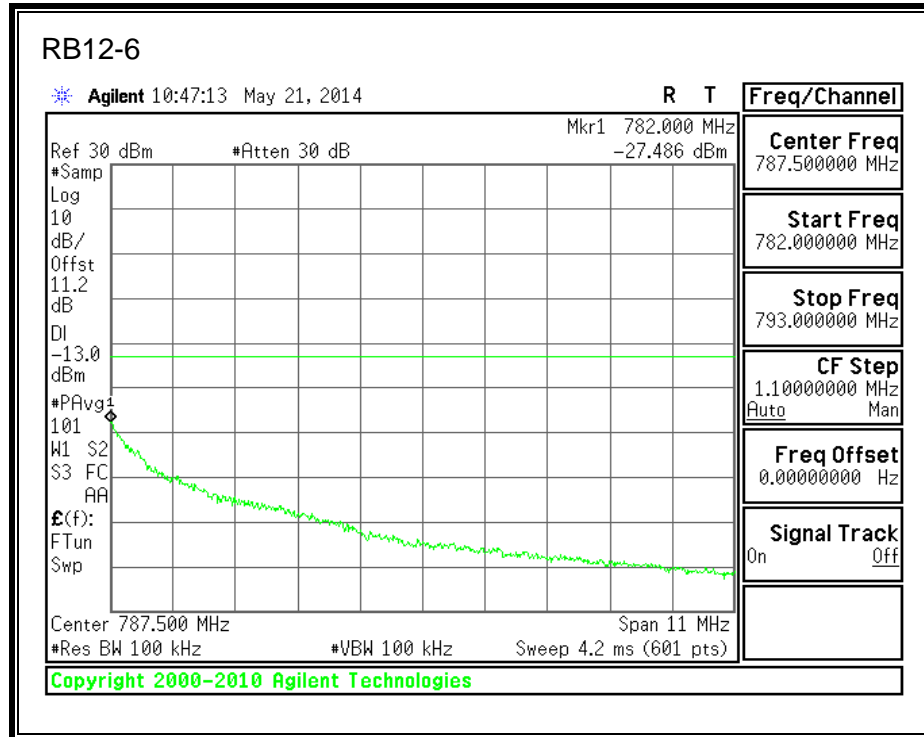
QPSK, 779.5MHz, 13, 782 - 793MHz, (5MHz Bandwidth)



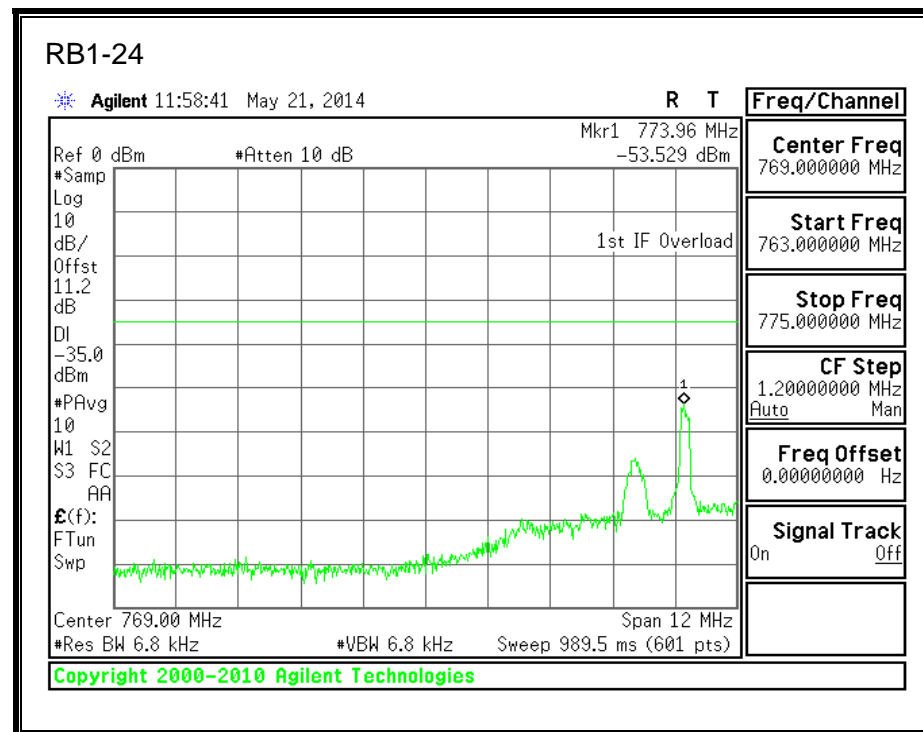
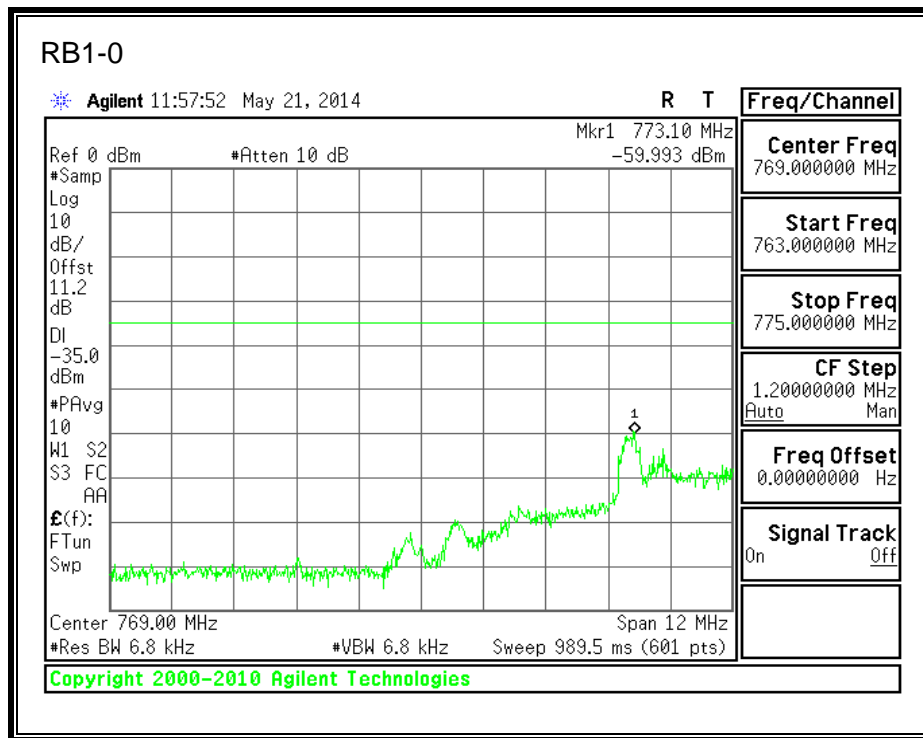


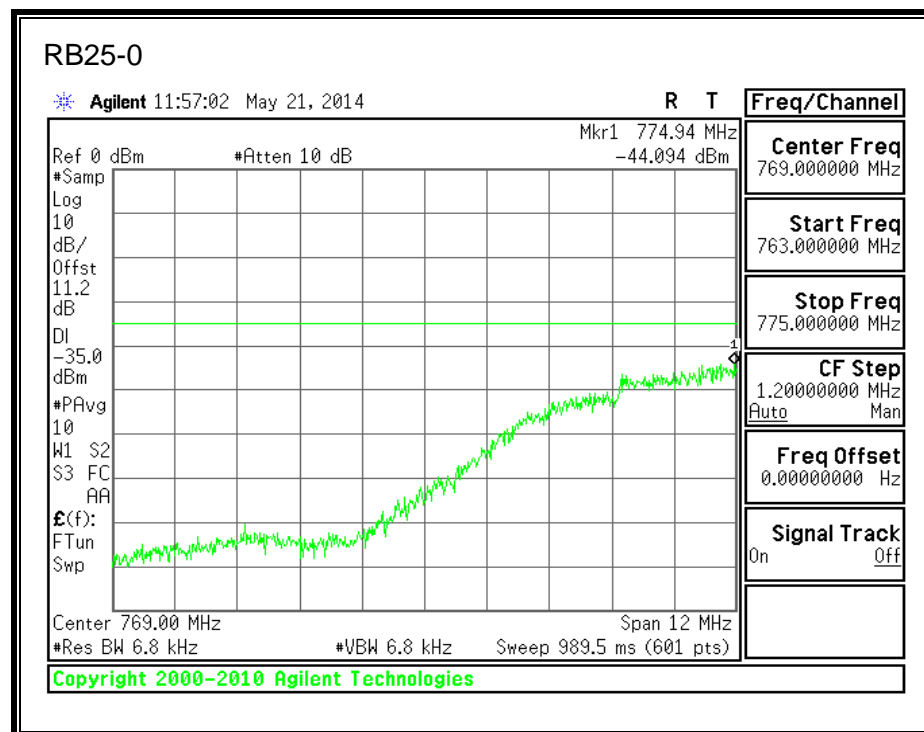
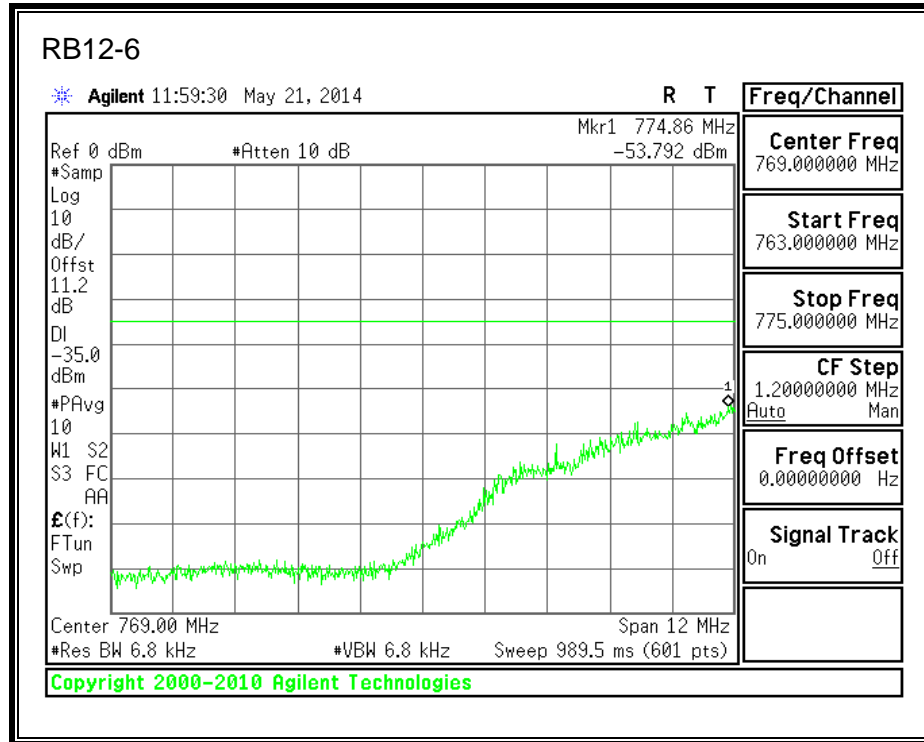
16QAM, 779.5MHz, 782 - 793MHz, (5MHz Bandwidth)



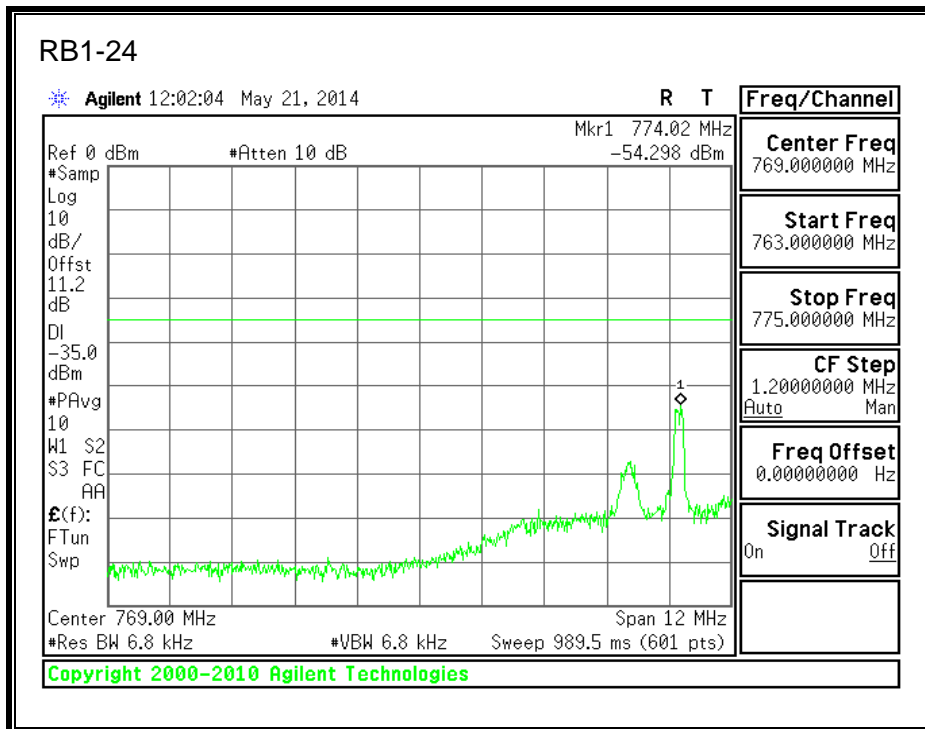
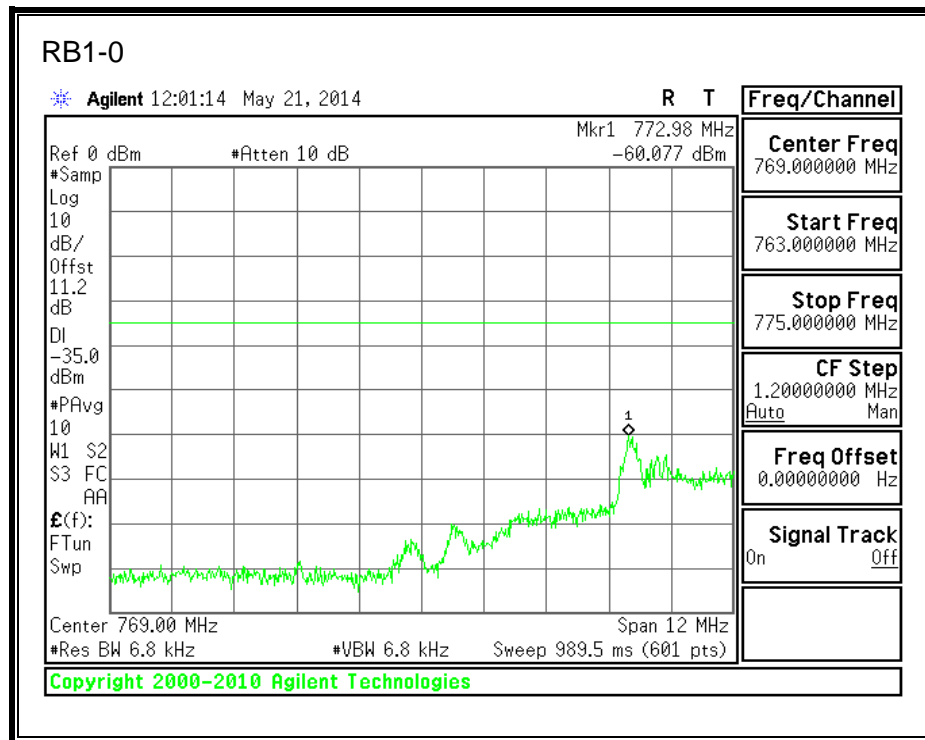


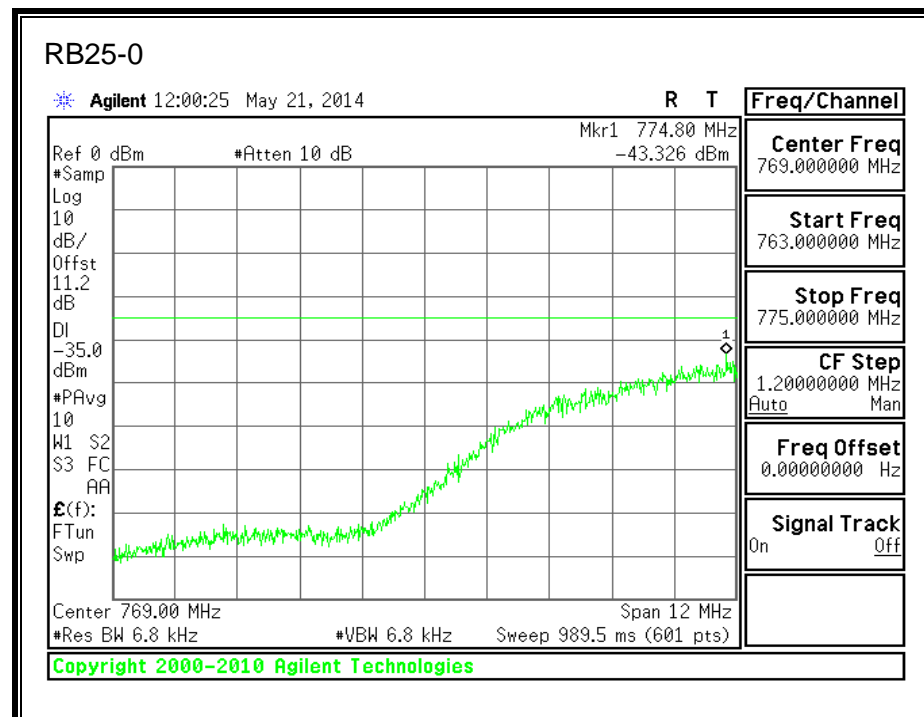
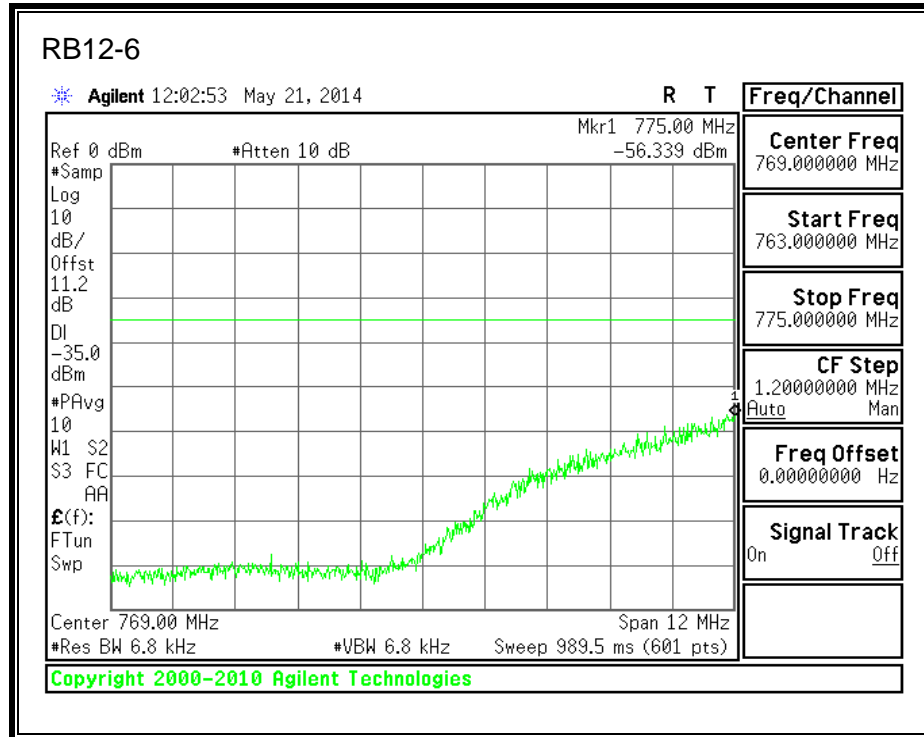
QPSK, 779.5MHz, 763 - 775MHz, (5MHz Bandwidth)



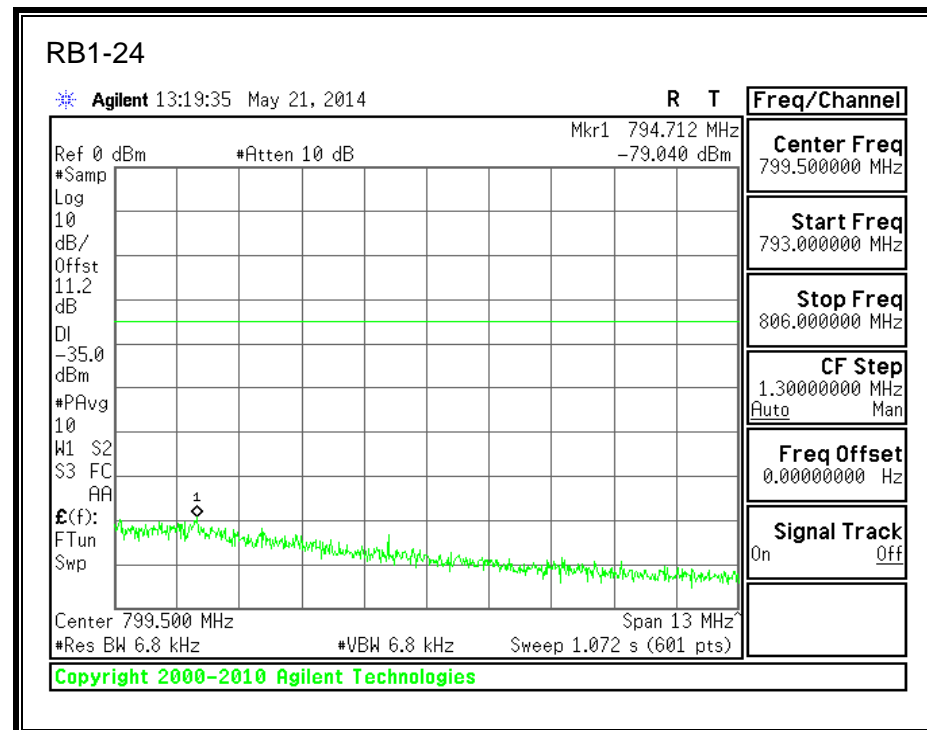
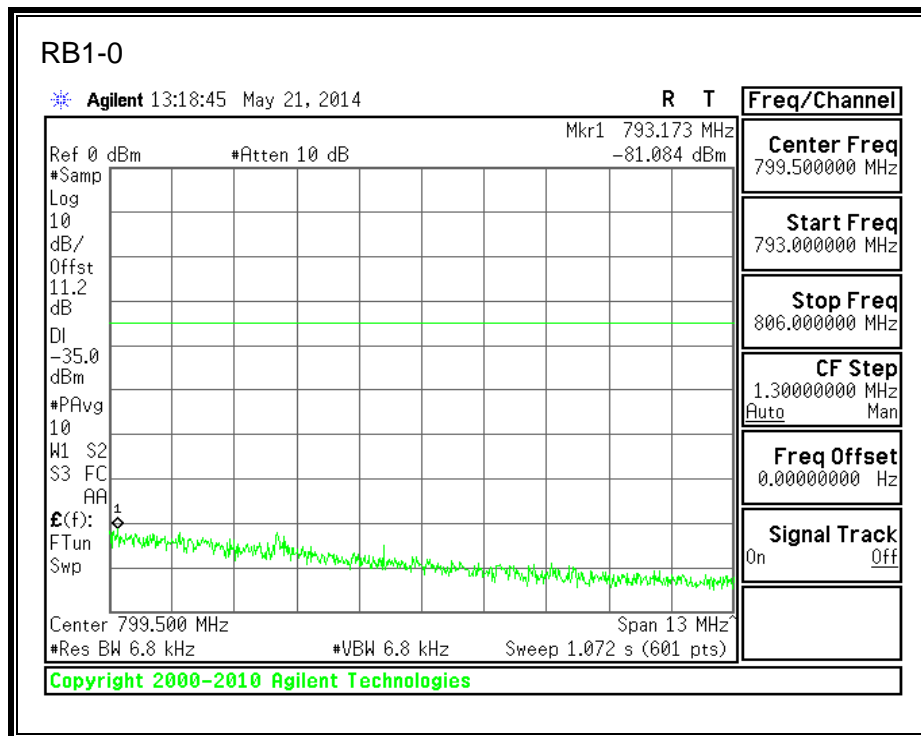


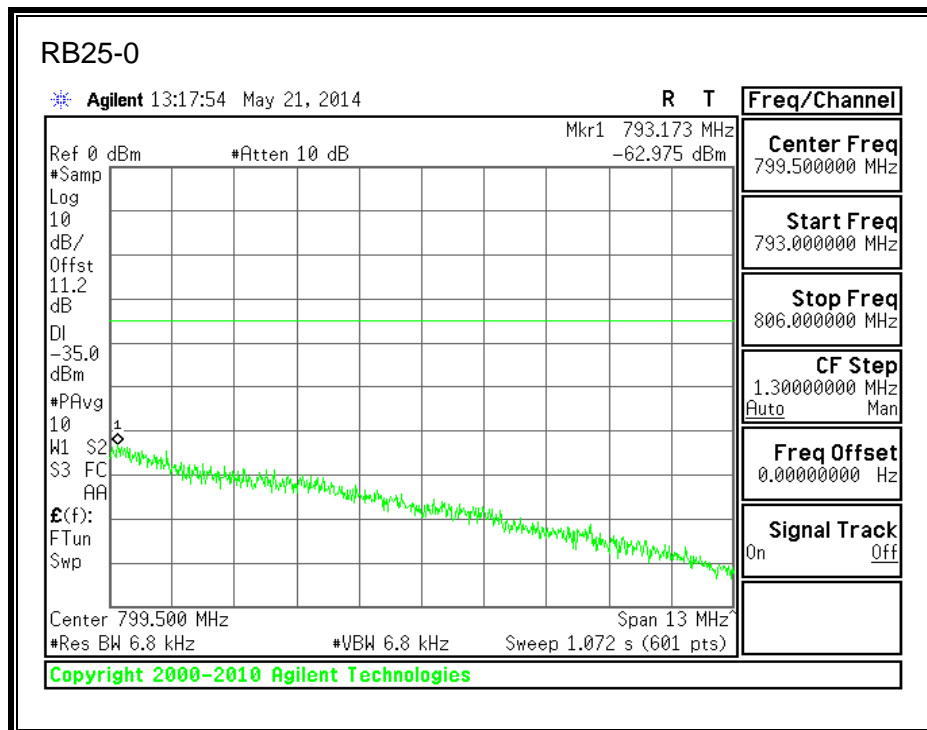
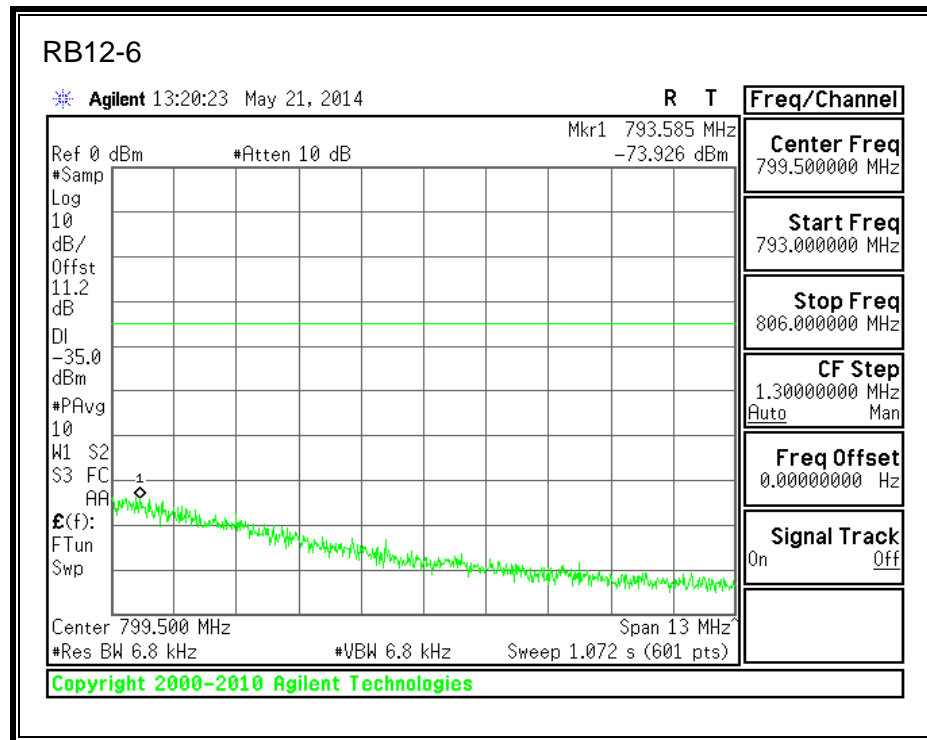
16QAM, 779.5MHz, 763-775MHz, (5MHz Bandwidth)



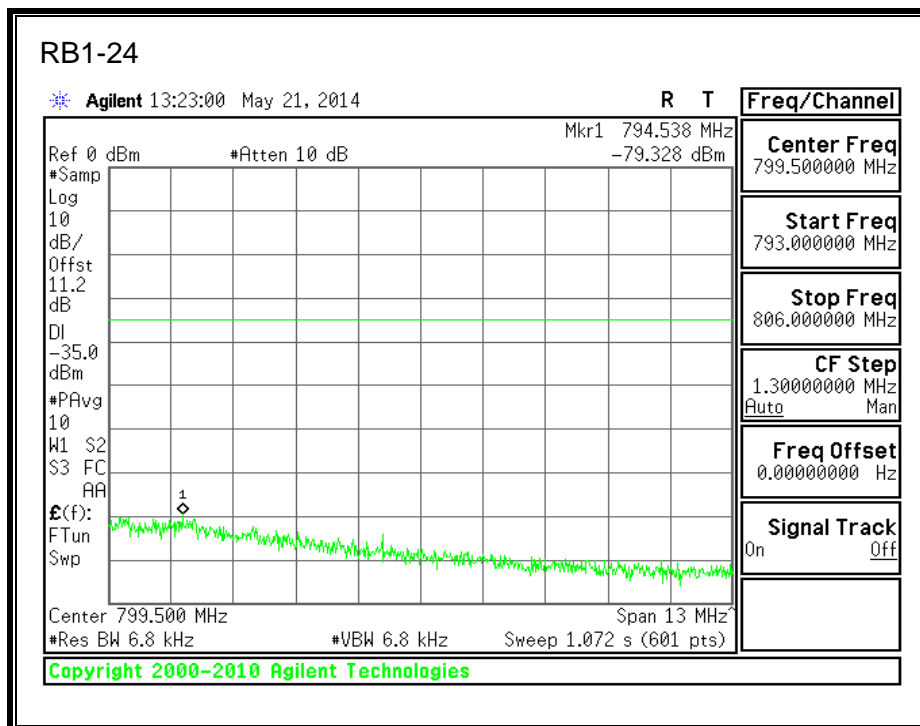
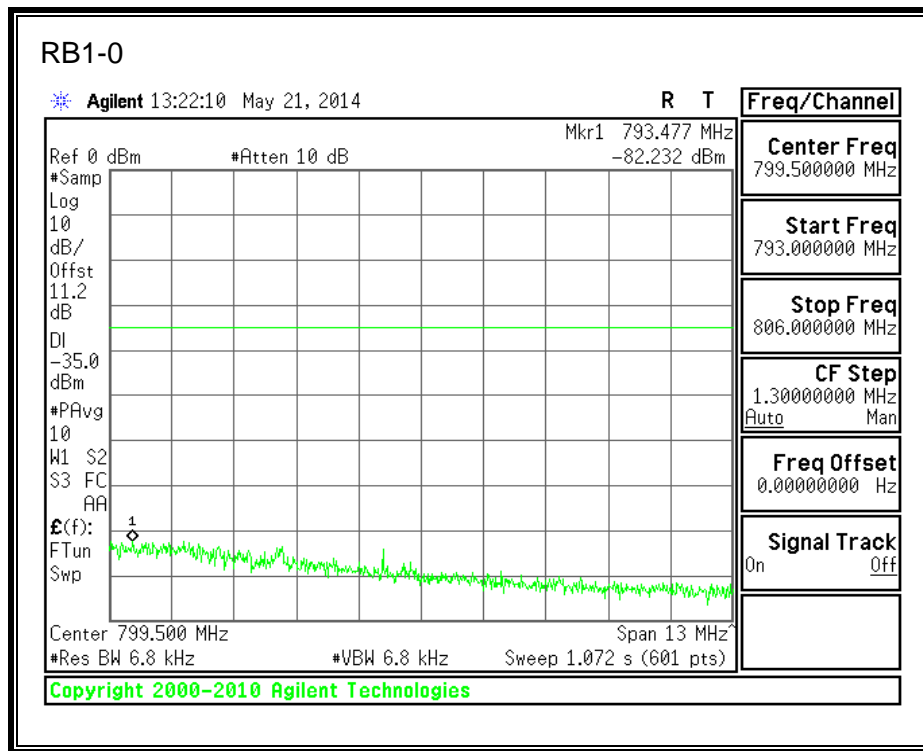


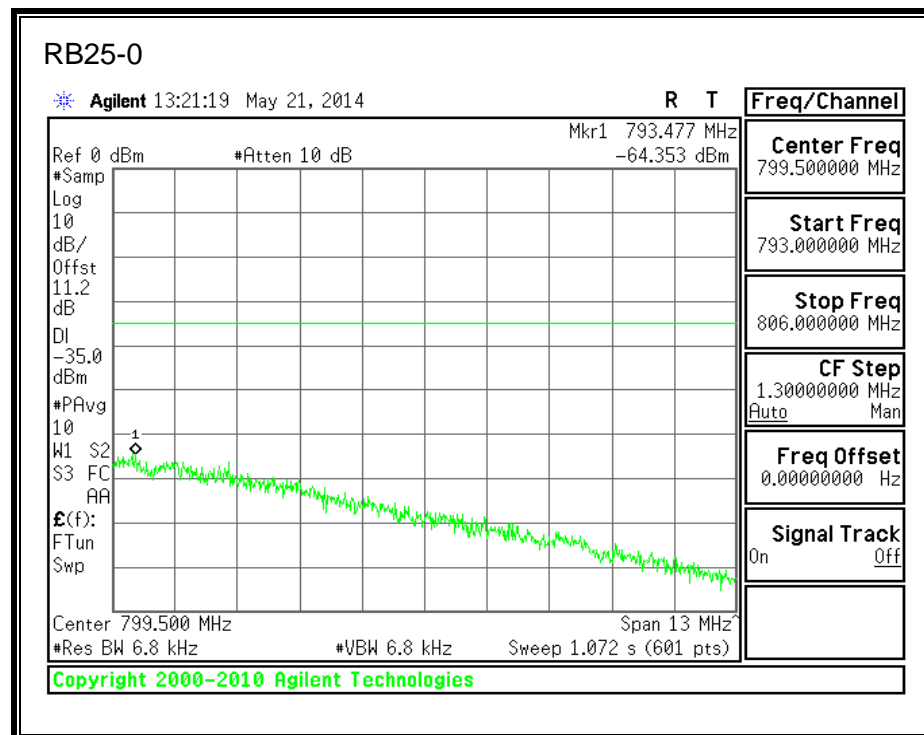
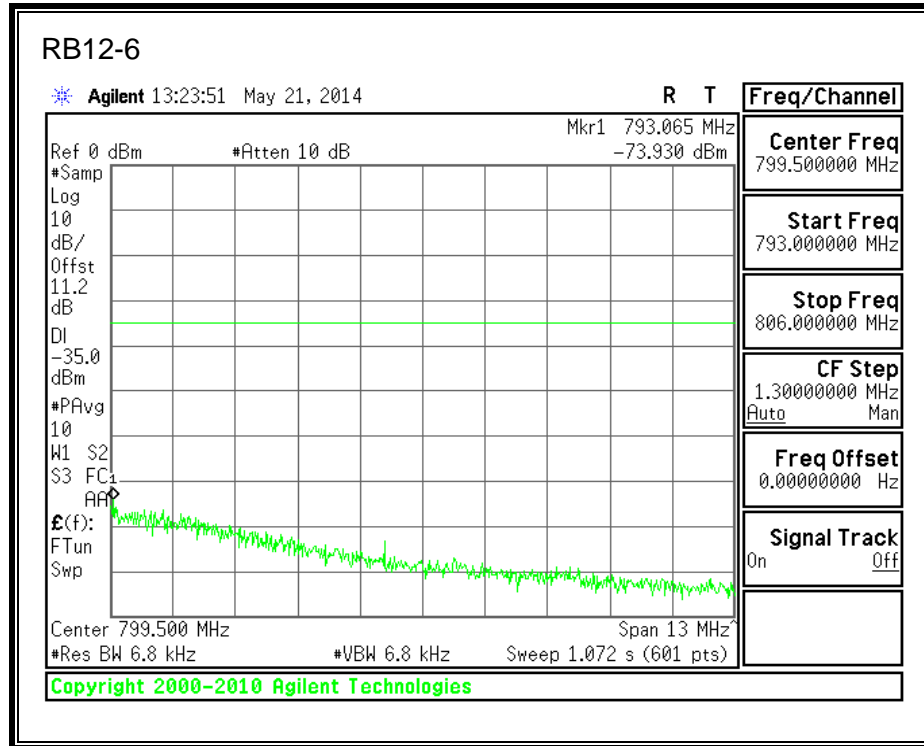
QPSK, 779.5MHz, 793 - 806MHz, (5MHz Bandwidth)



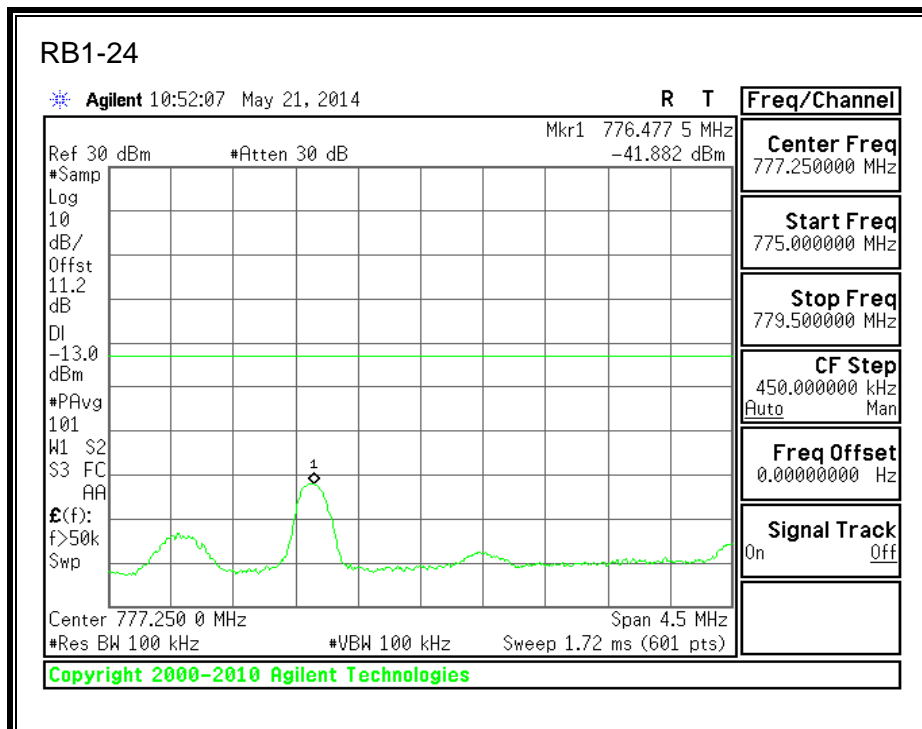
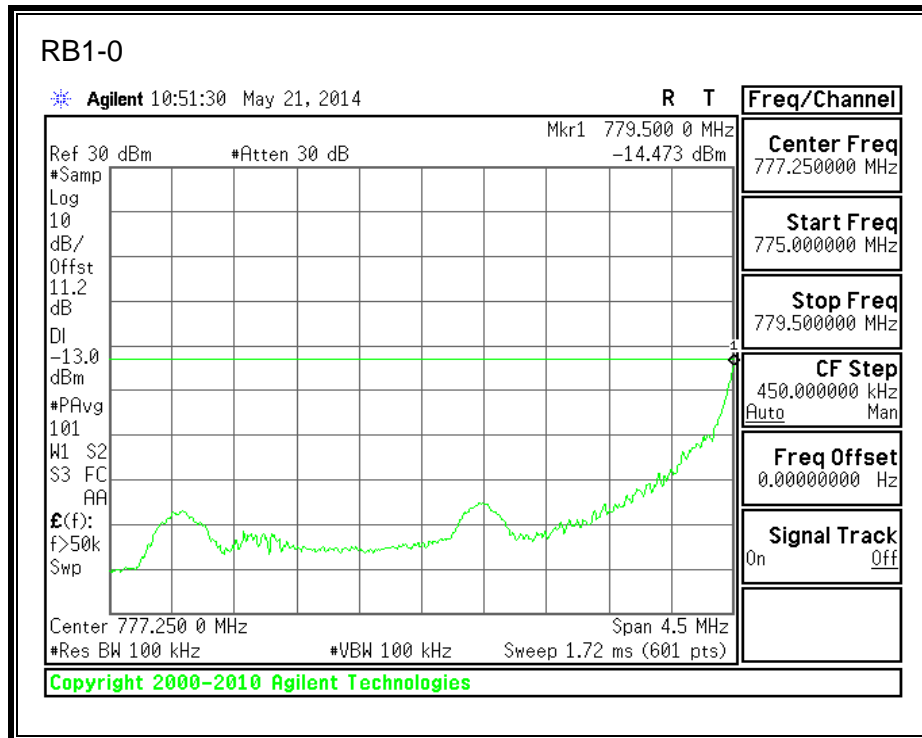


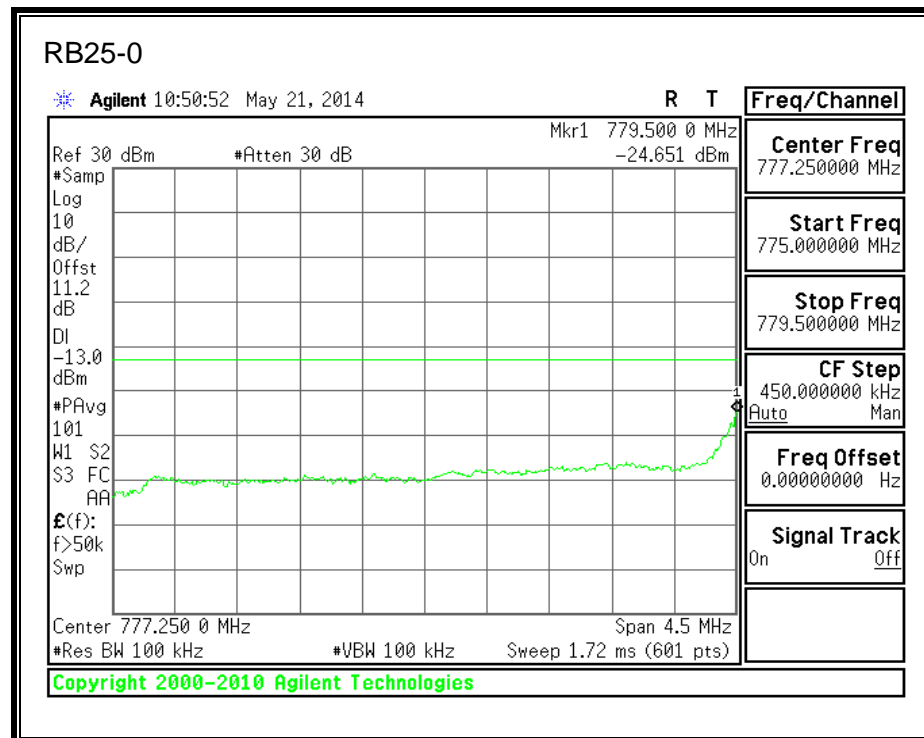
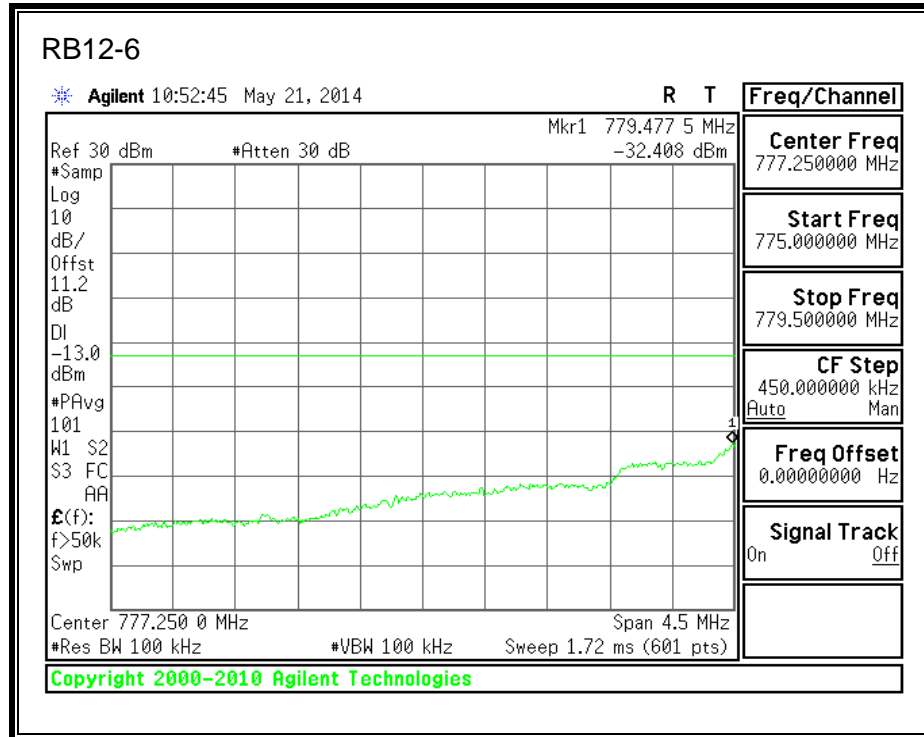
16QAM, 779.5MHz, 793 - 806MHz, (5MHz Bandwidth)



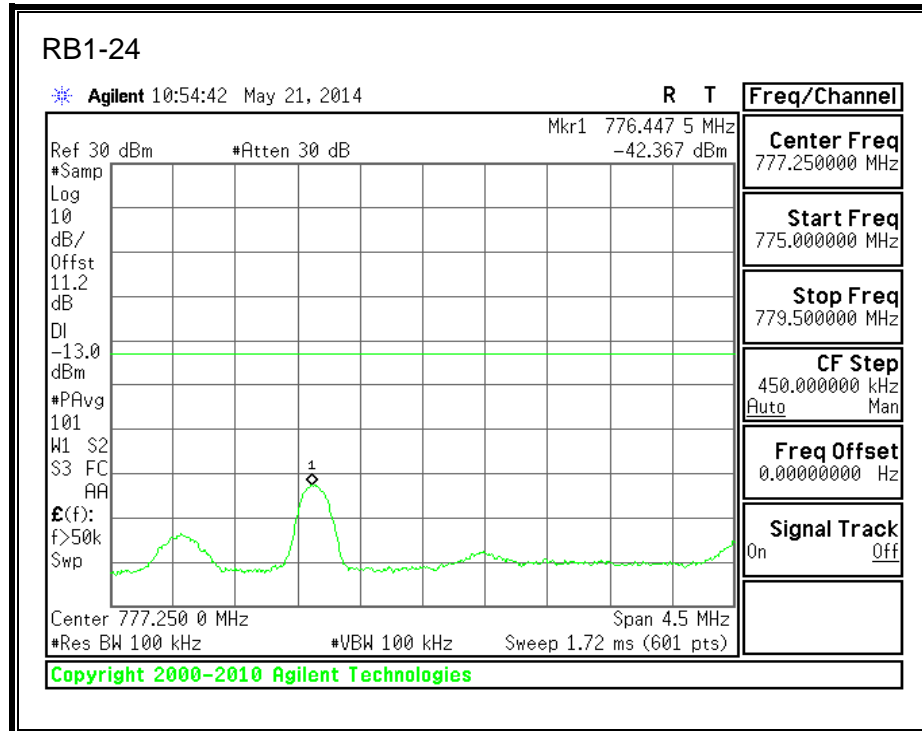
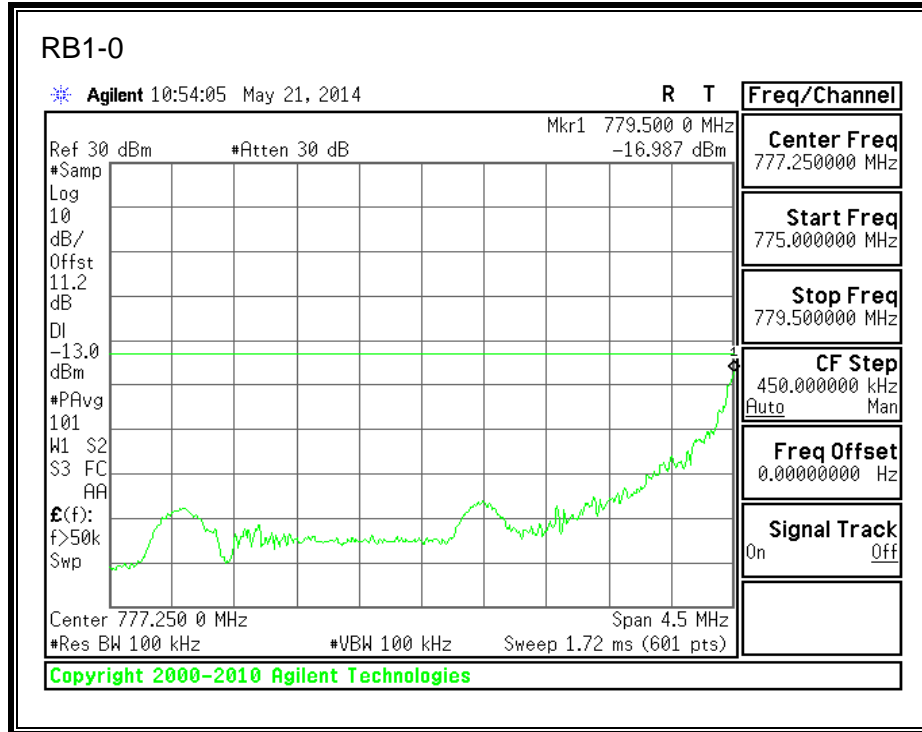


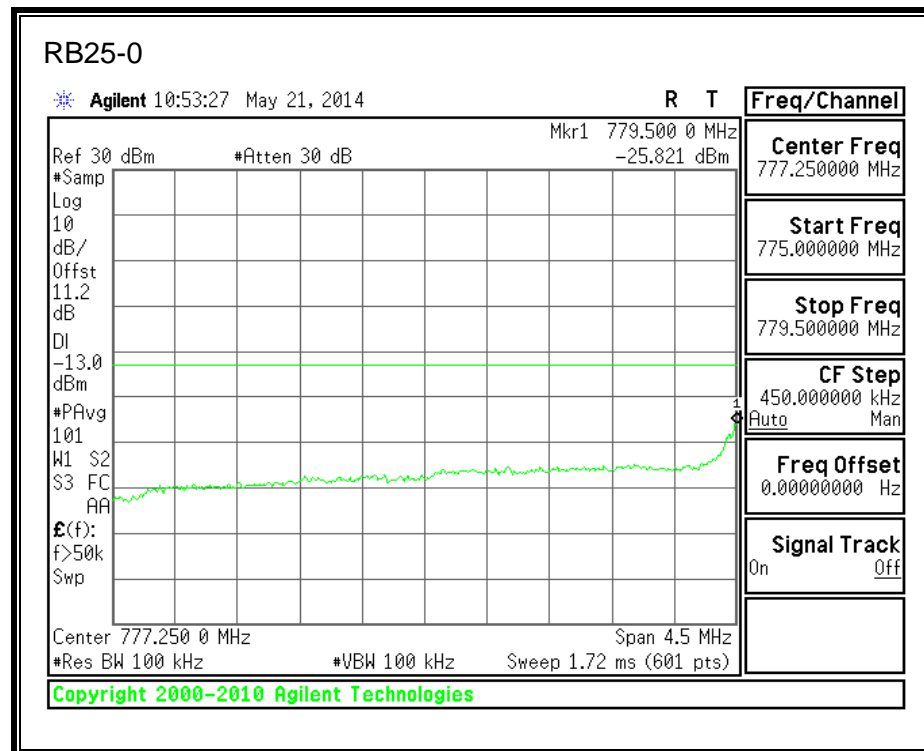
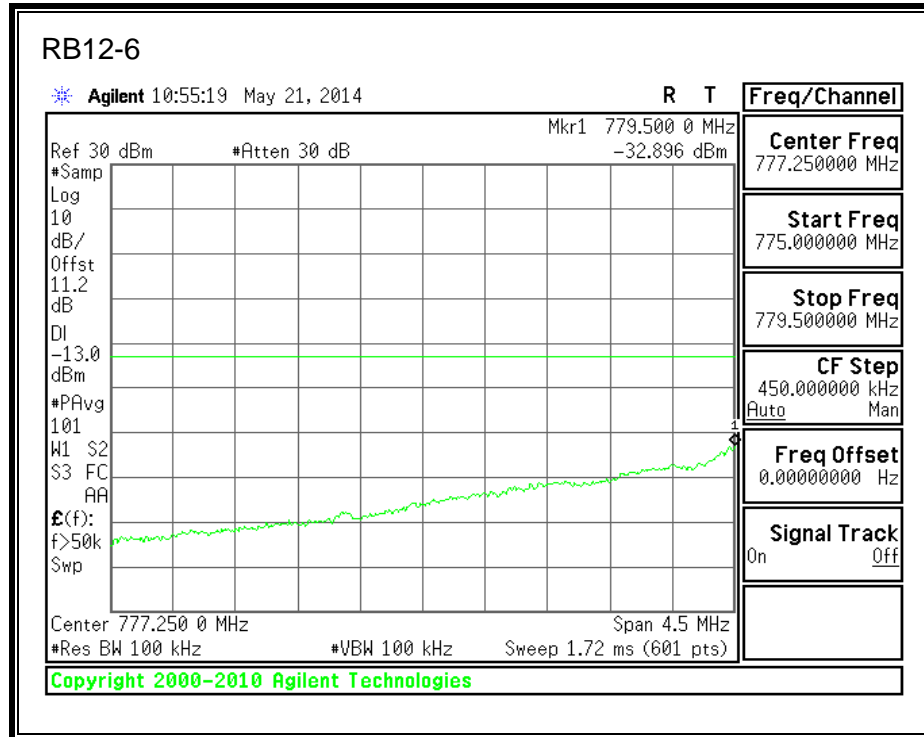
QPSK, 782MHz, 775 – 779.5MHz, (5MHz Bandwidth)



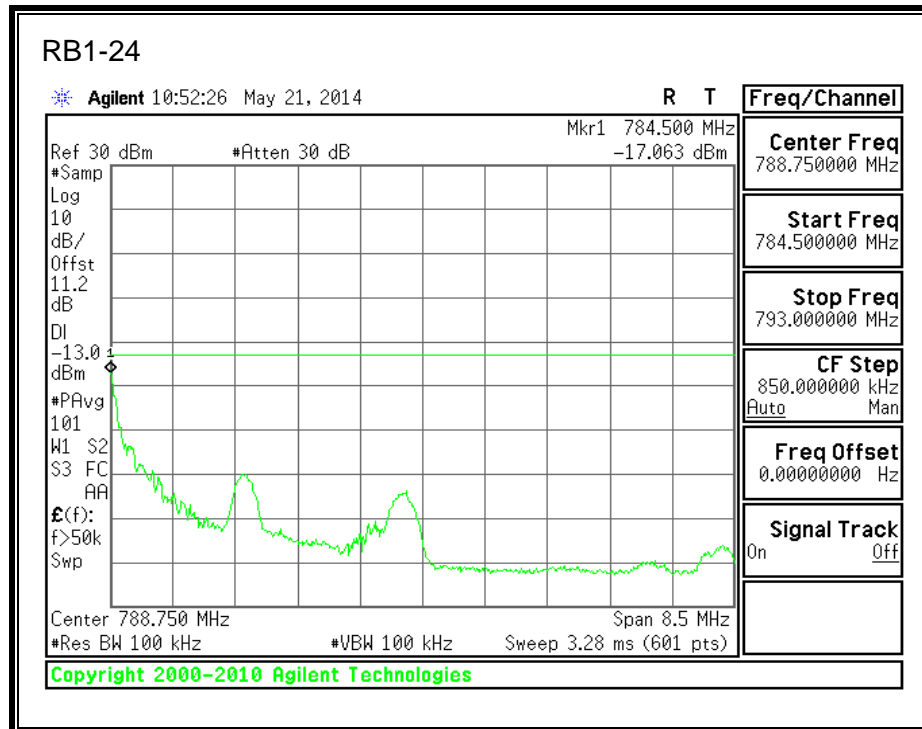
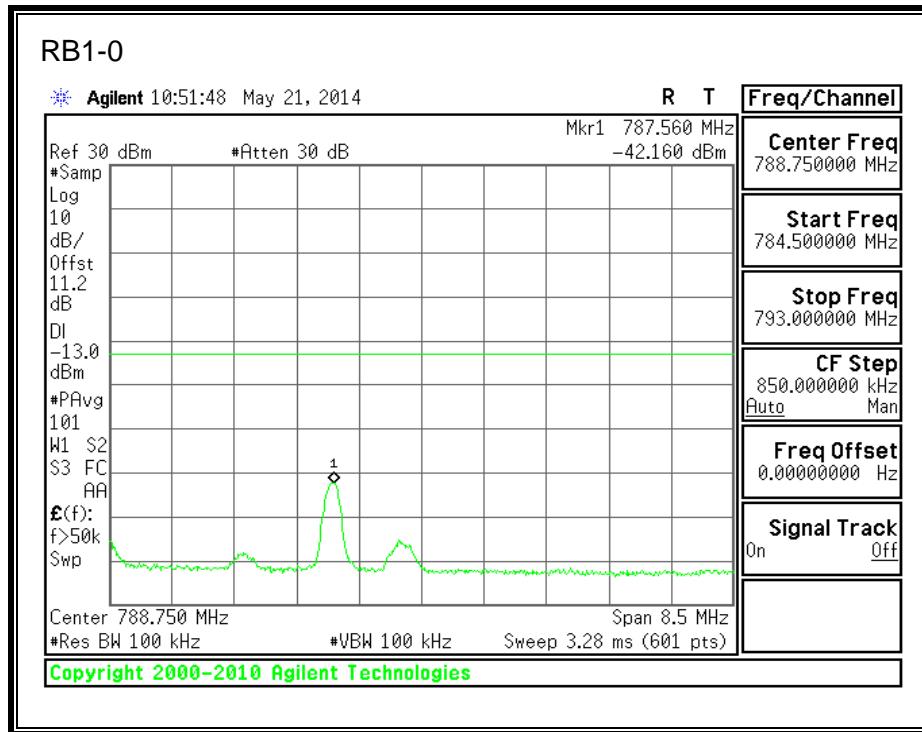


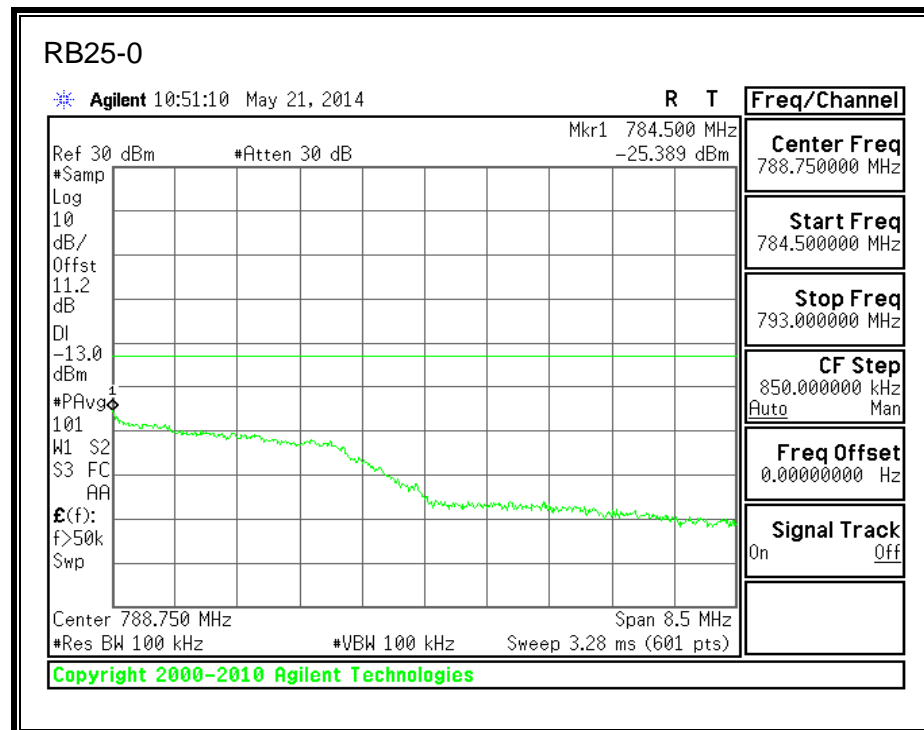
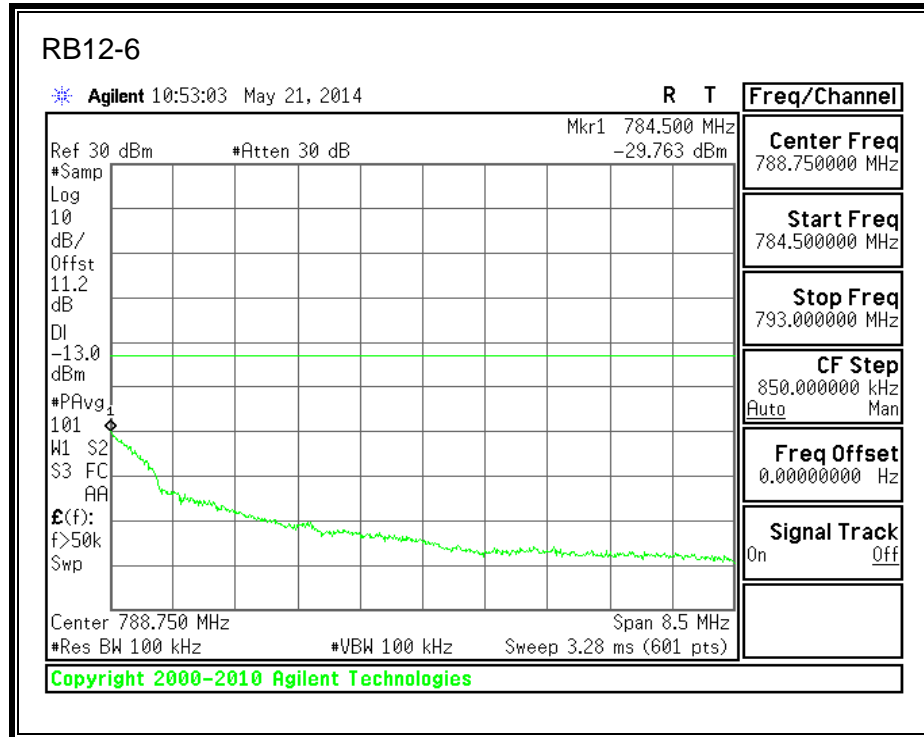
16QAM, 782MHz, 775 - 777MHz, (5MHz Bandwidth)



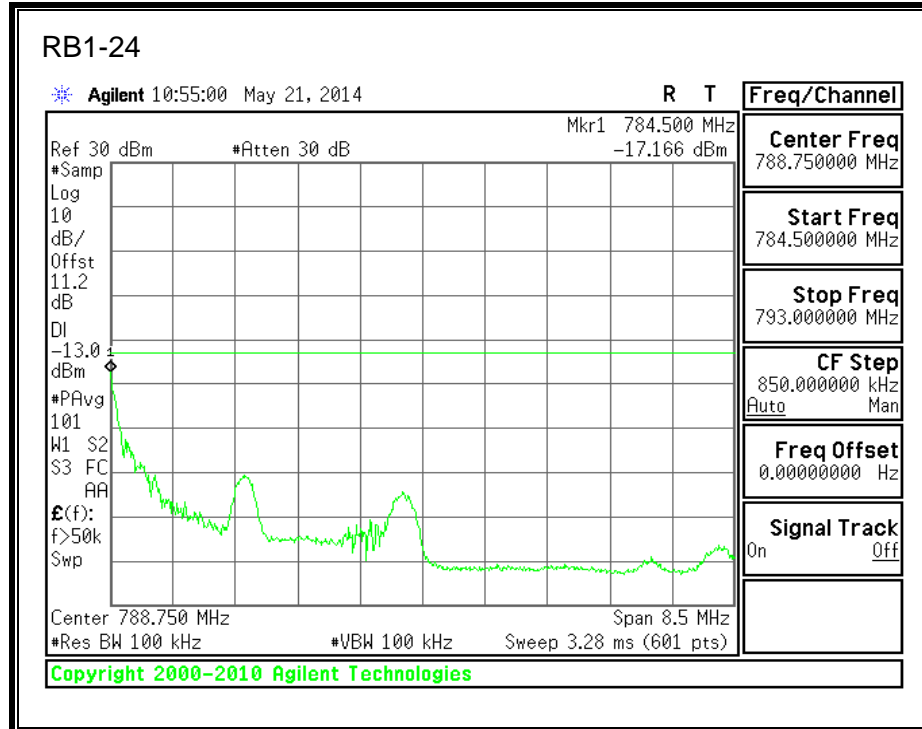
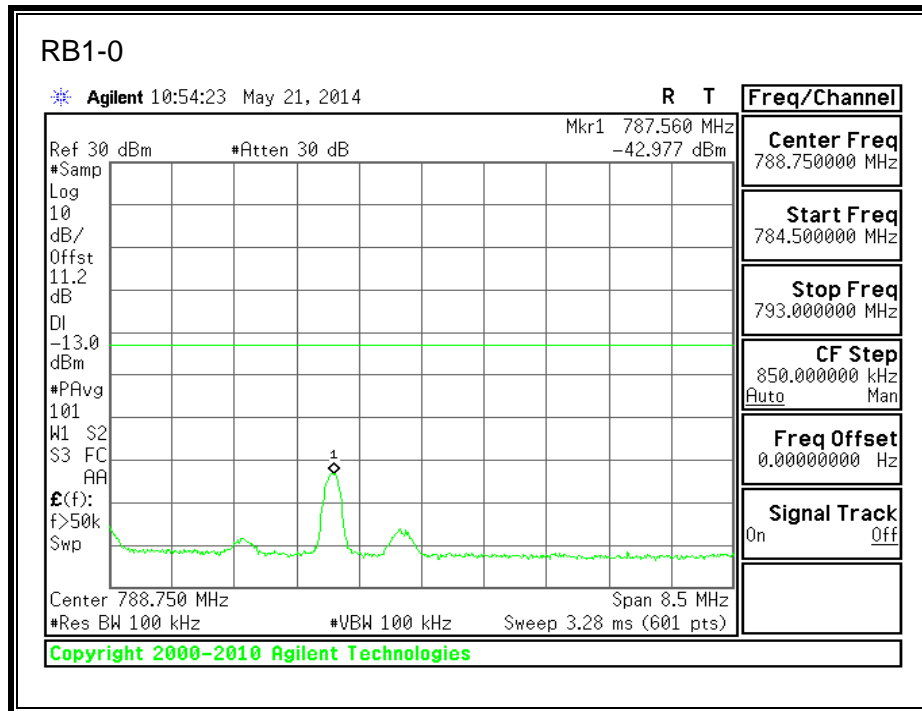


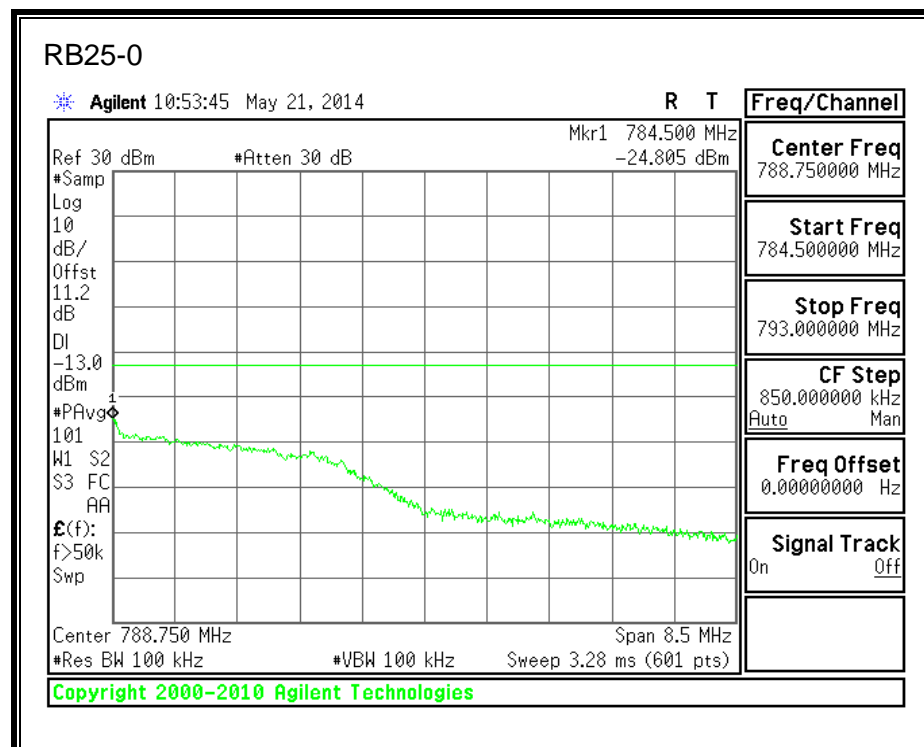
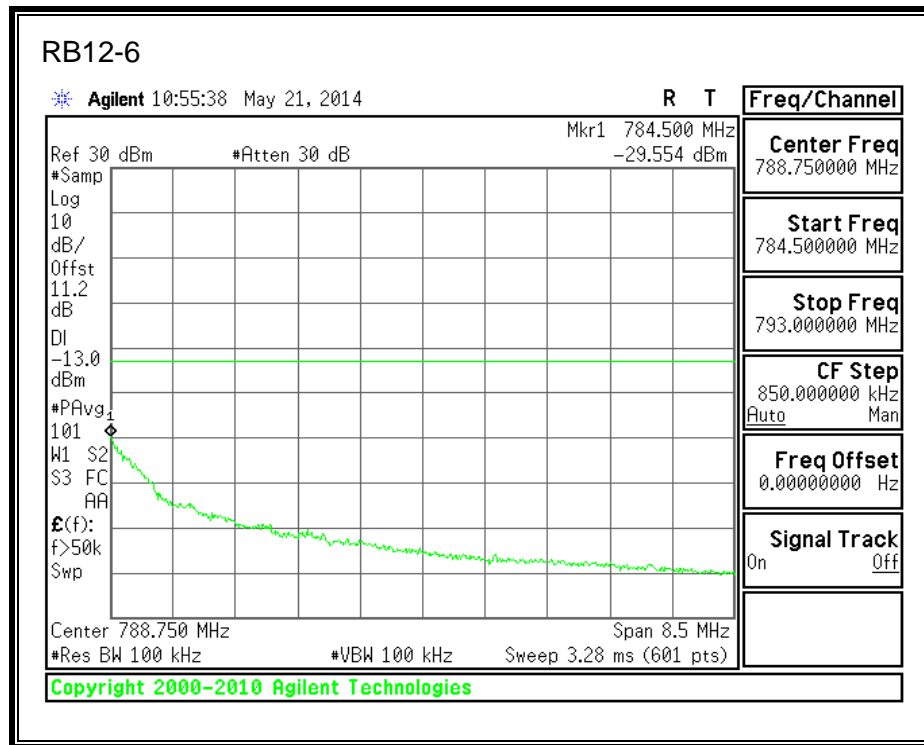
QPSK, 782MHz, 784.5 - 793MHz, (5MHz Bandwidth)



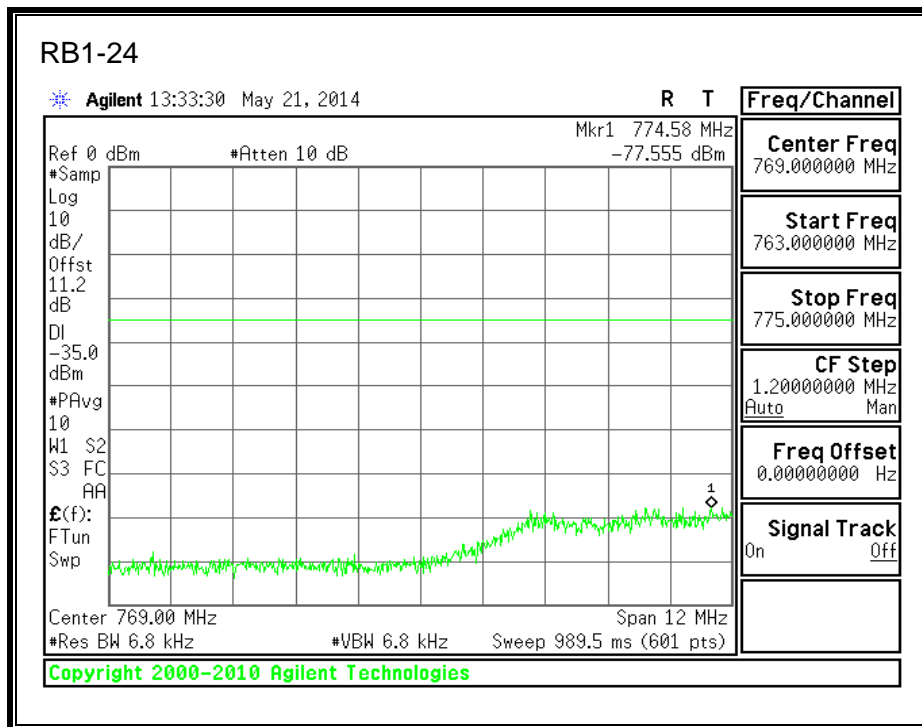
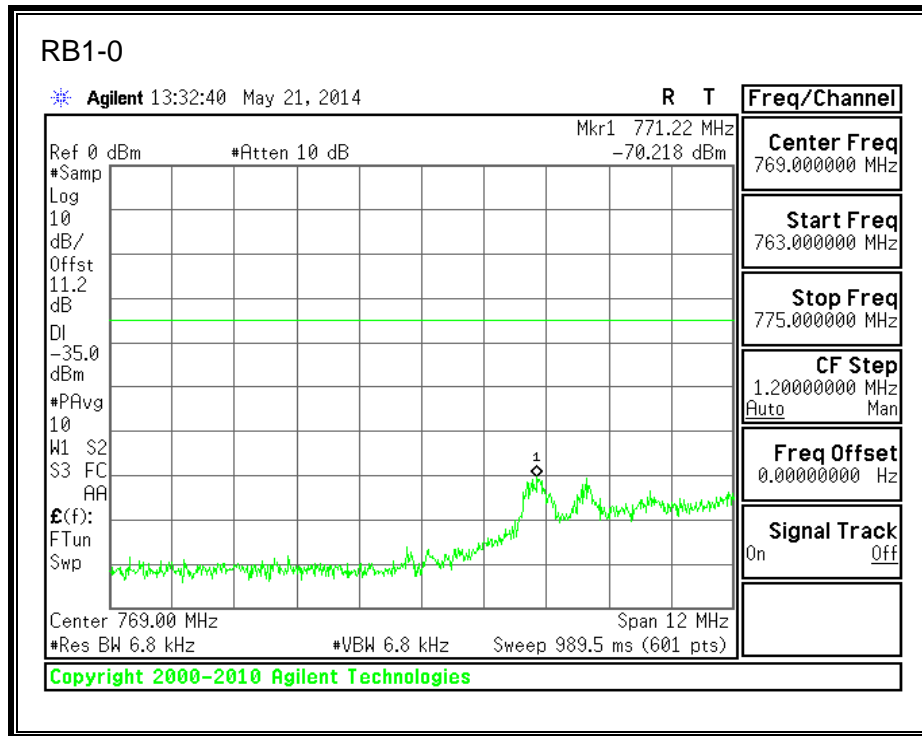


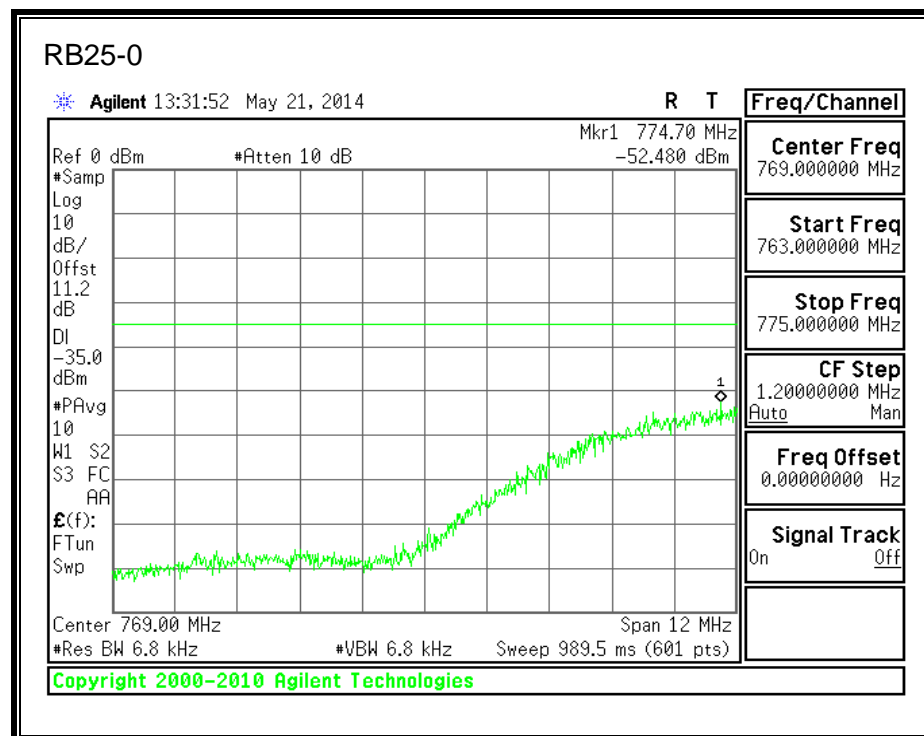
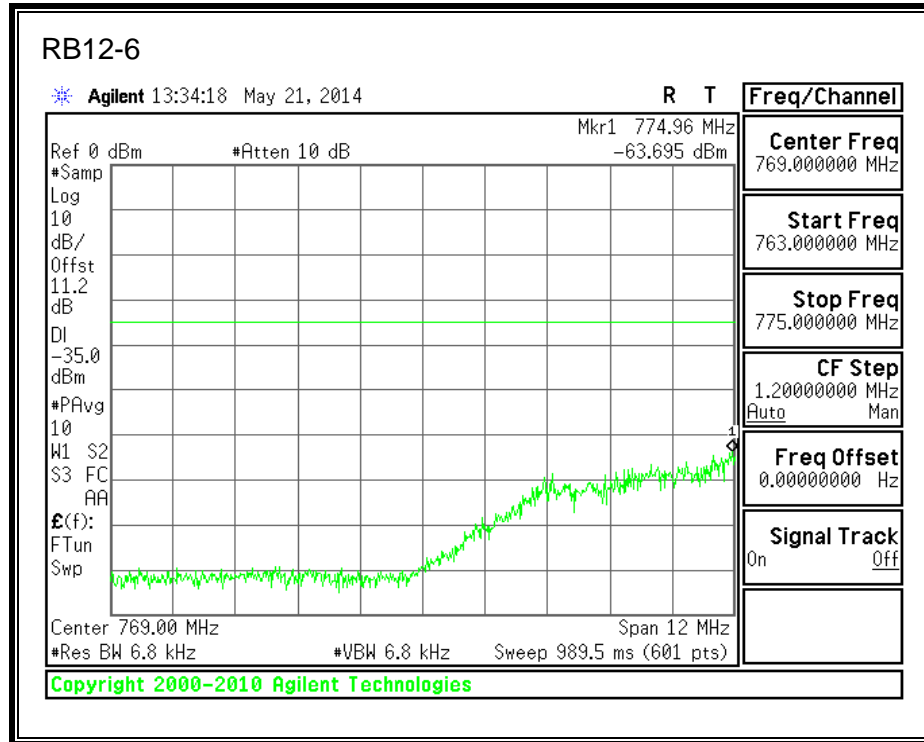
16QAM, 782MHz, 784.5 - 793MHz, (5MHz Bandwidth)



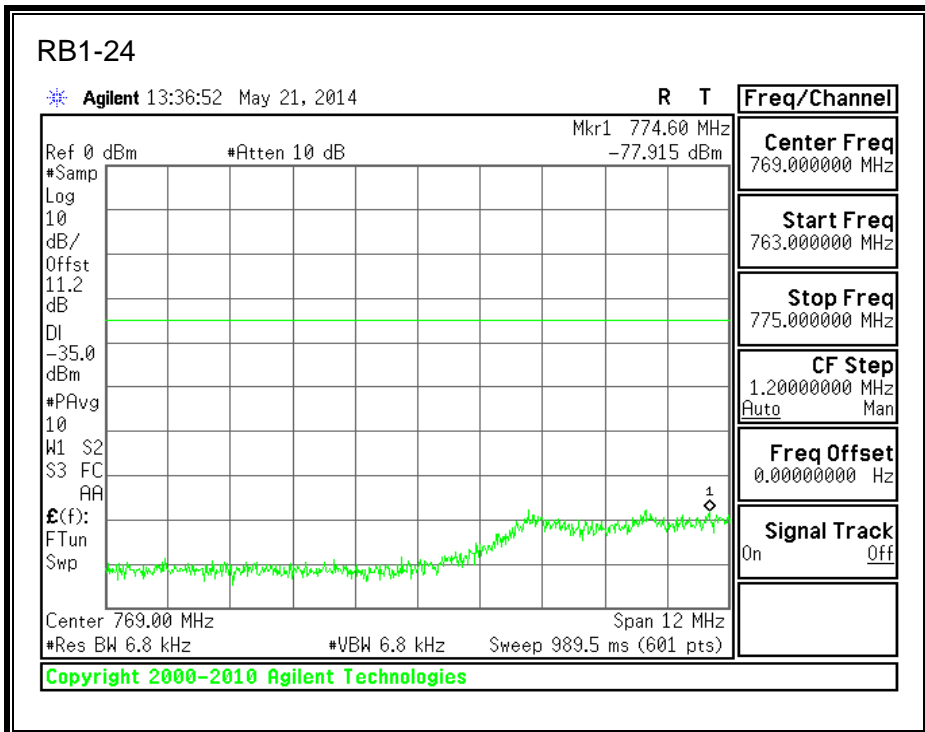
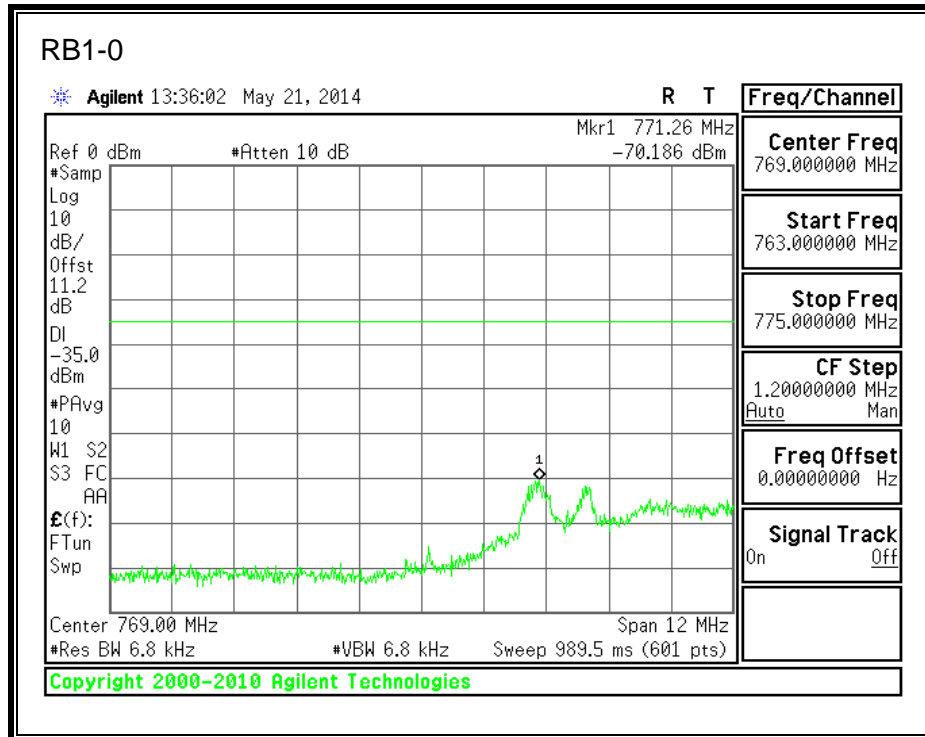


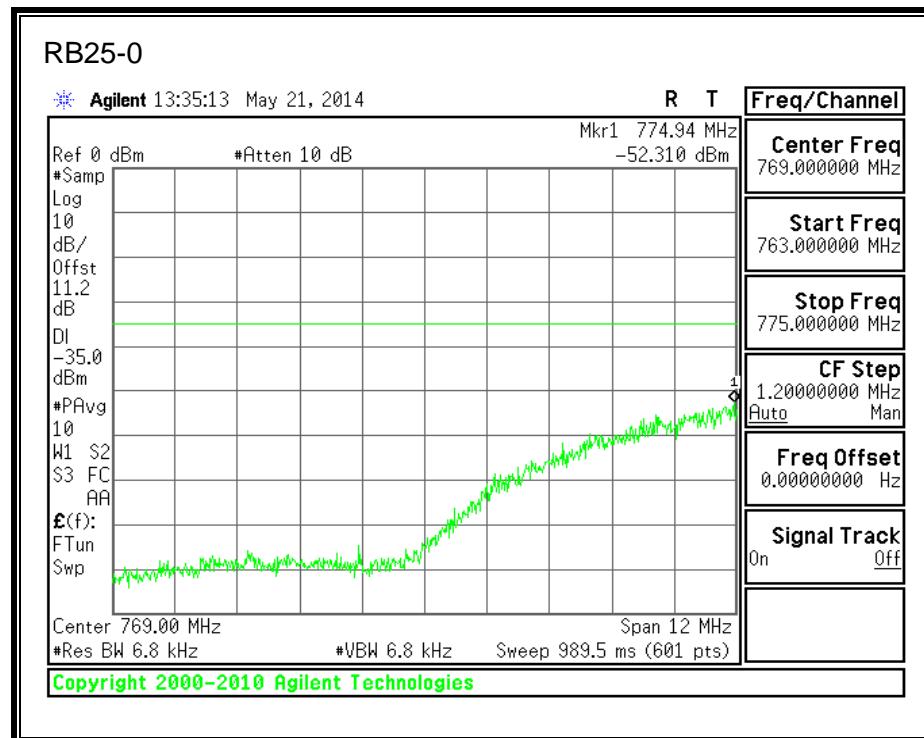
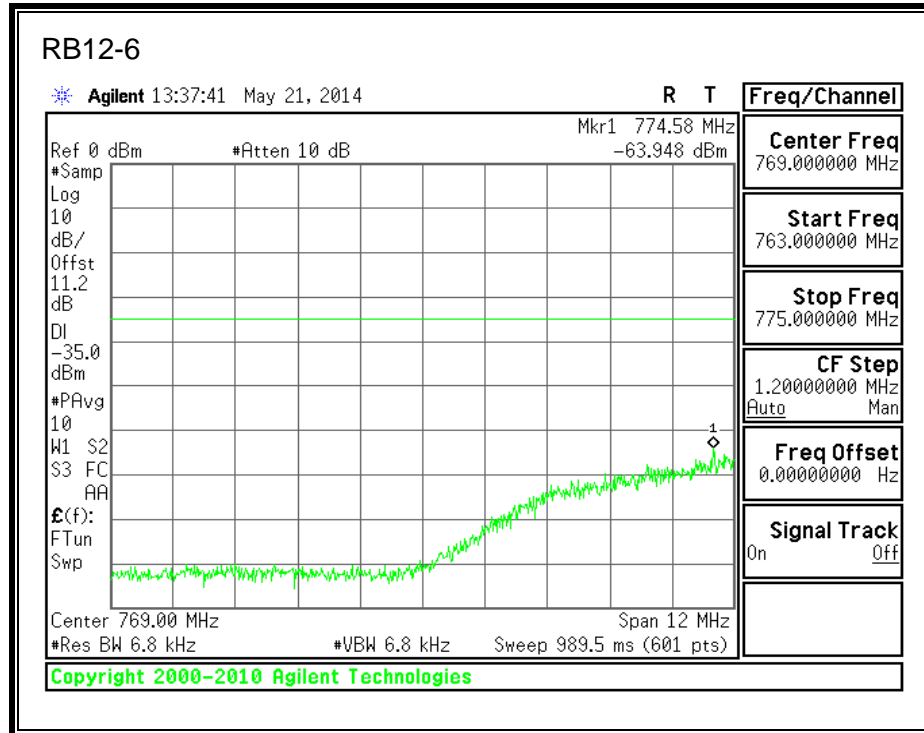
QPSK, 782MHz, 763 - 775MHz, (5MHz Bandwidth)



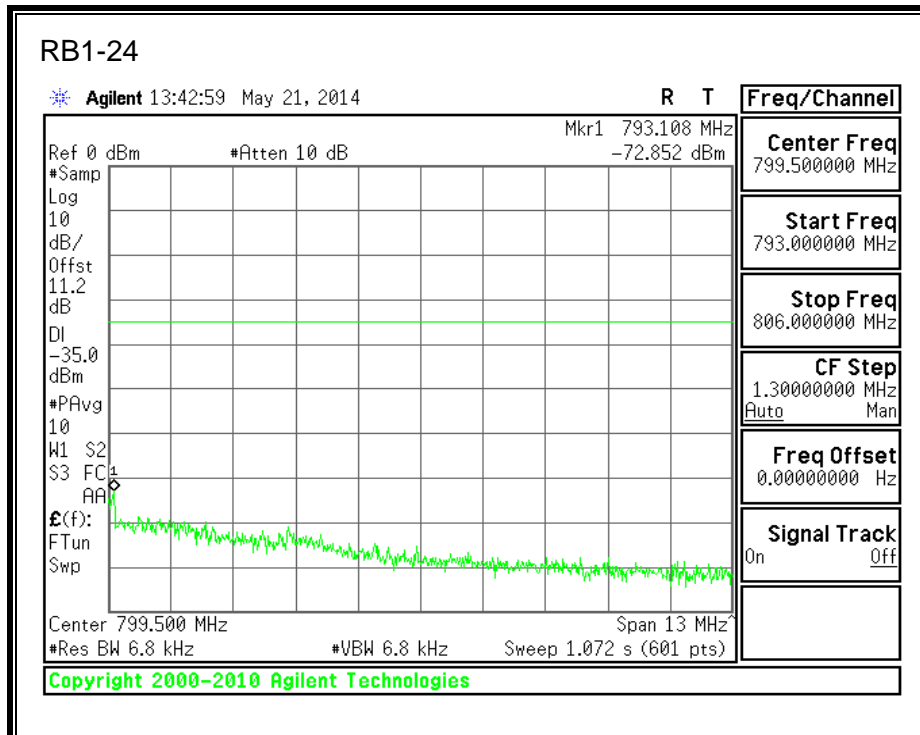
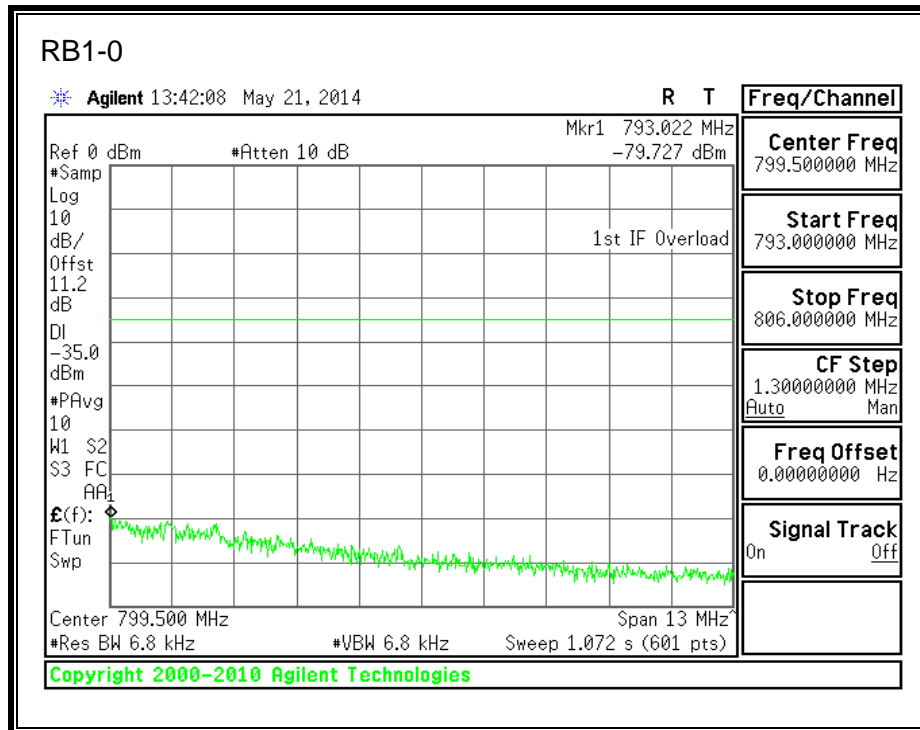


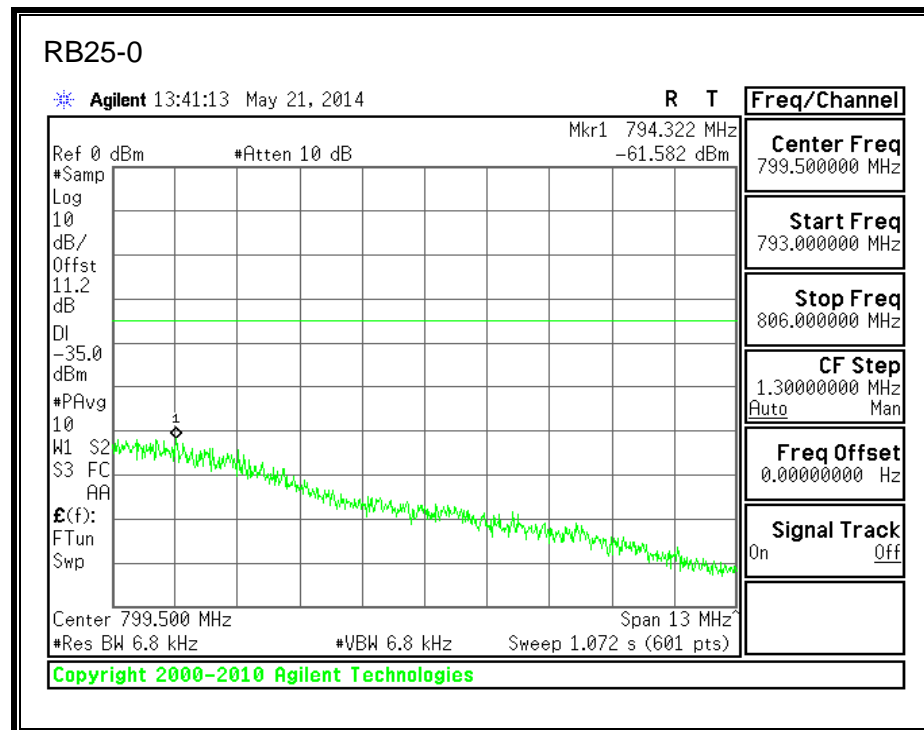
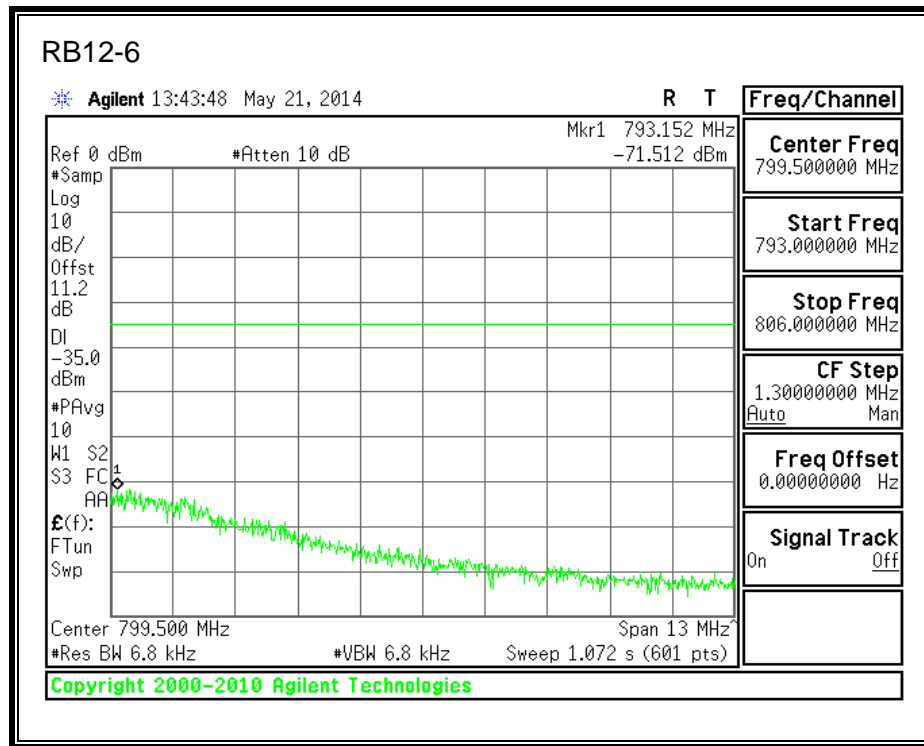
16QAM, 782MHz, 763 - 775MHz, (5MHz Bandwidth)



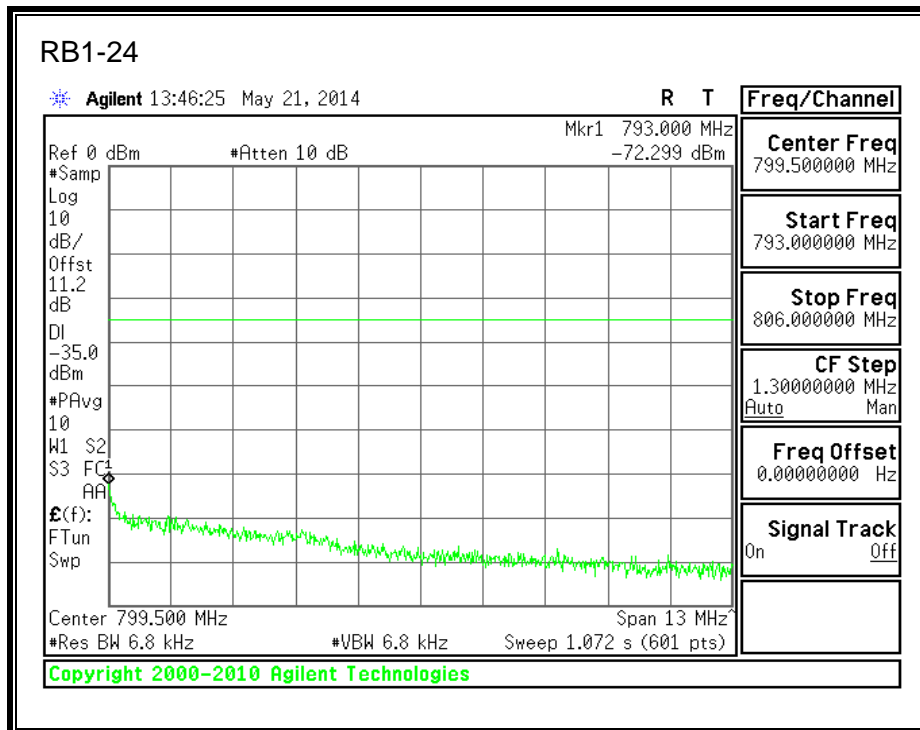
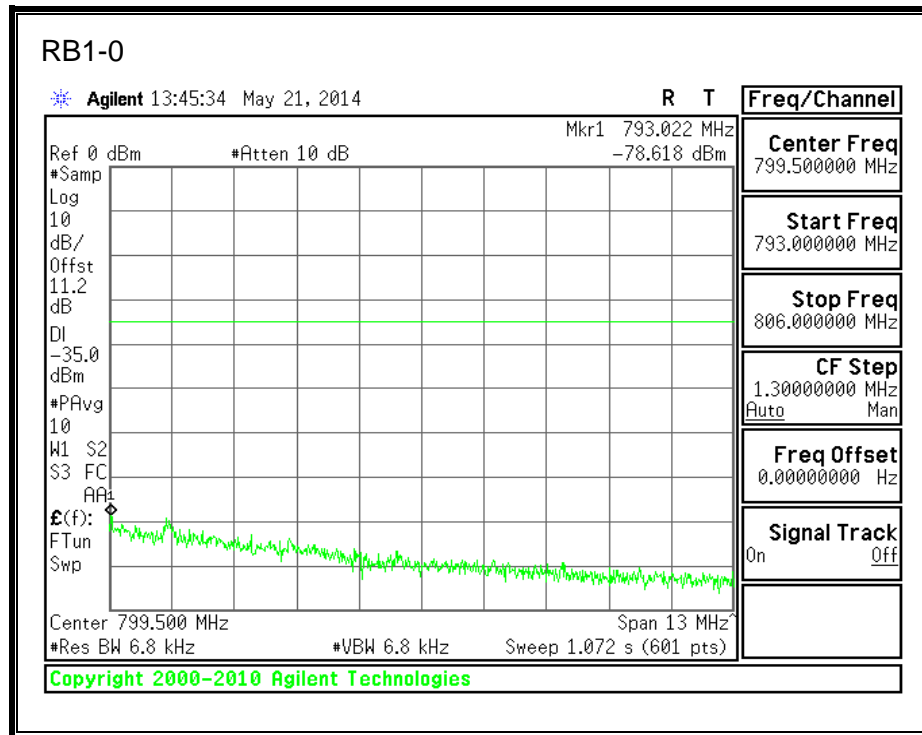


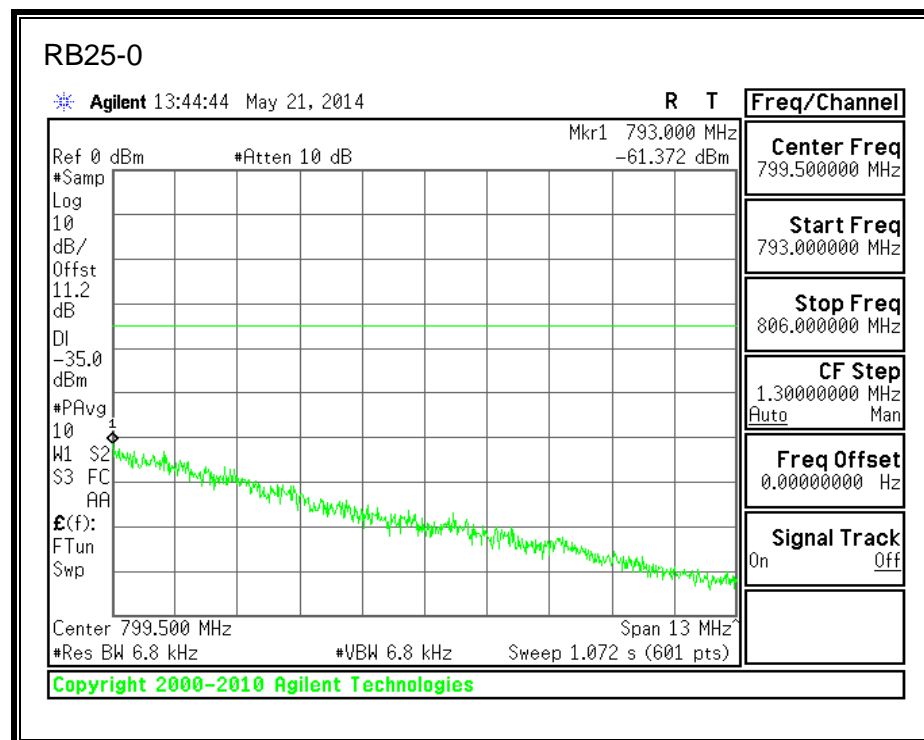
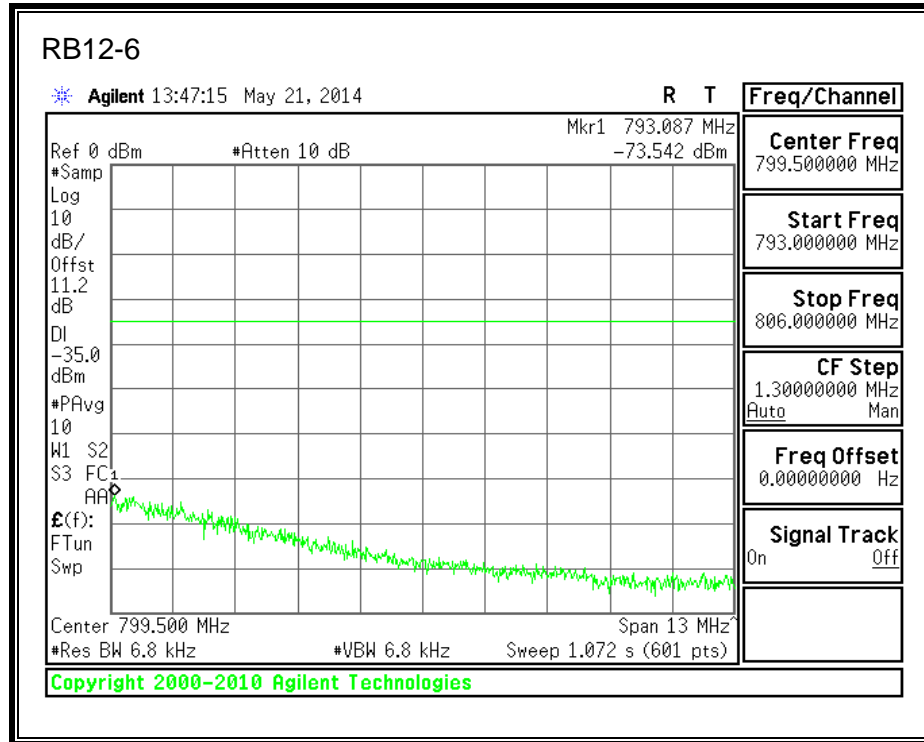
QPSK, 782MHz, 793 - 806MHz, (5MHz Bandwidth)



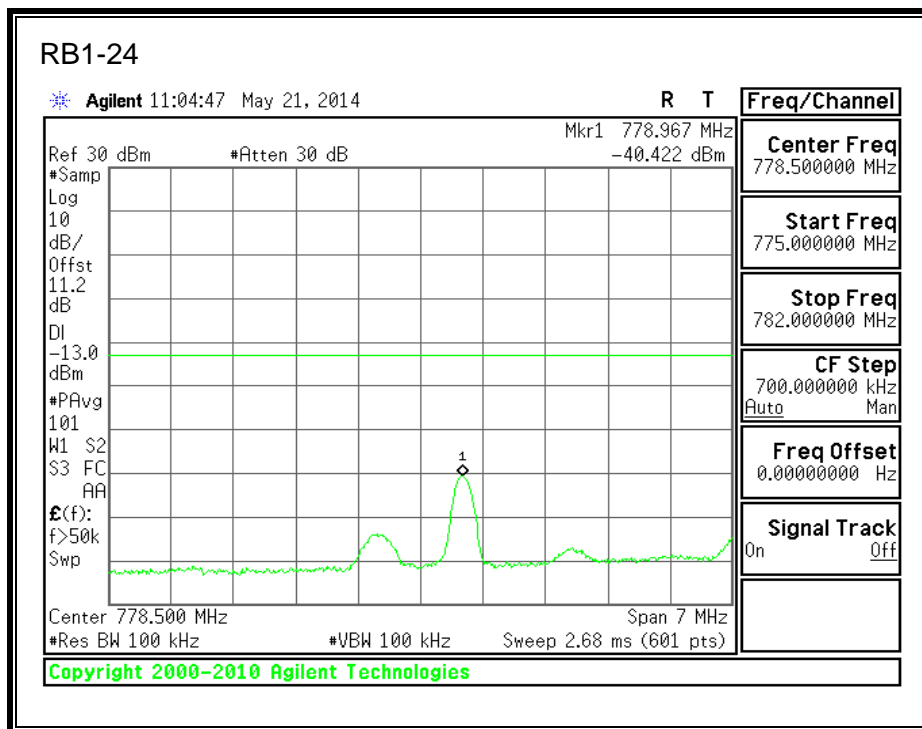
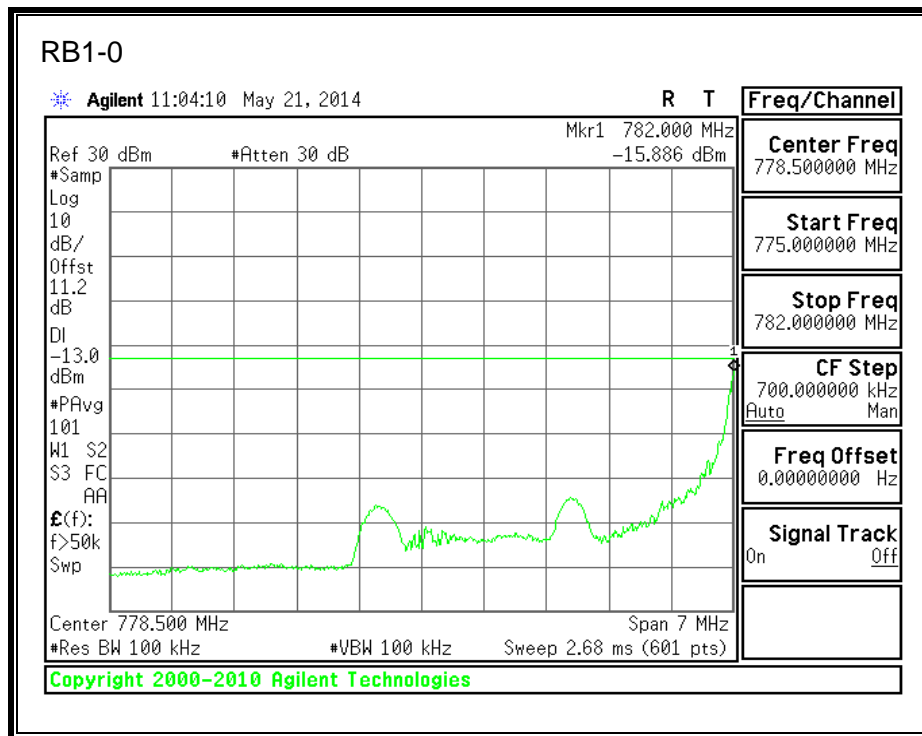


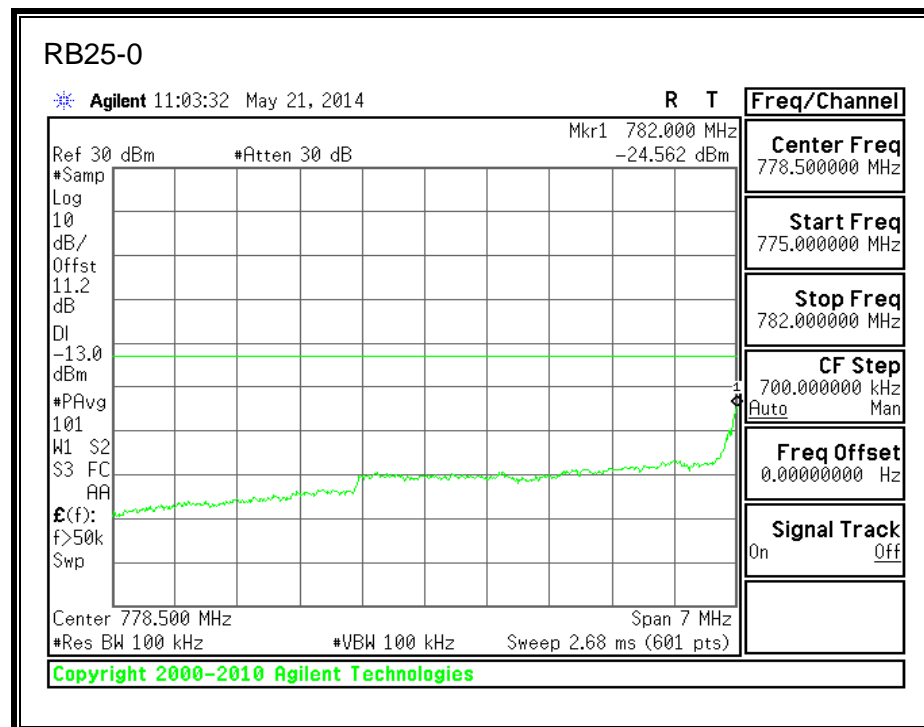
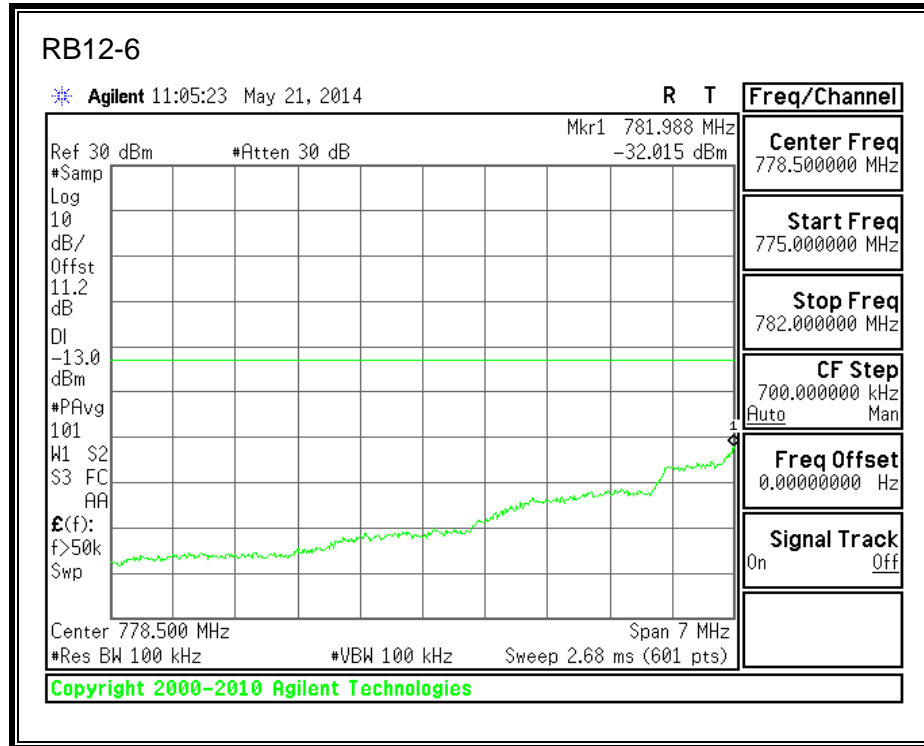
16QAM, 782MHz, 793 - 806MHz, (5MHz Bandwidth)



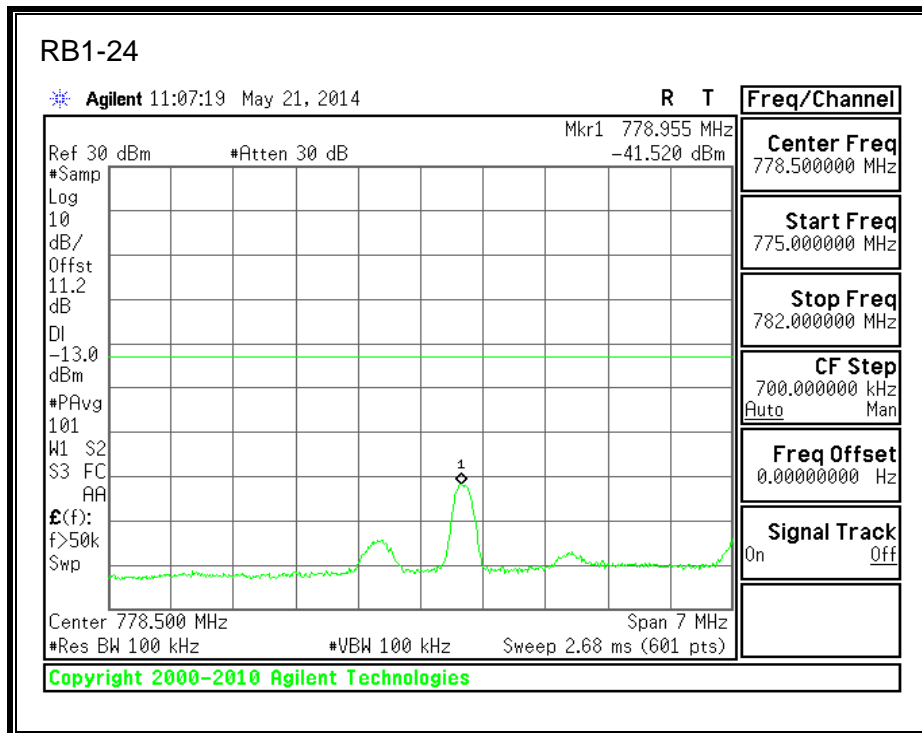
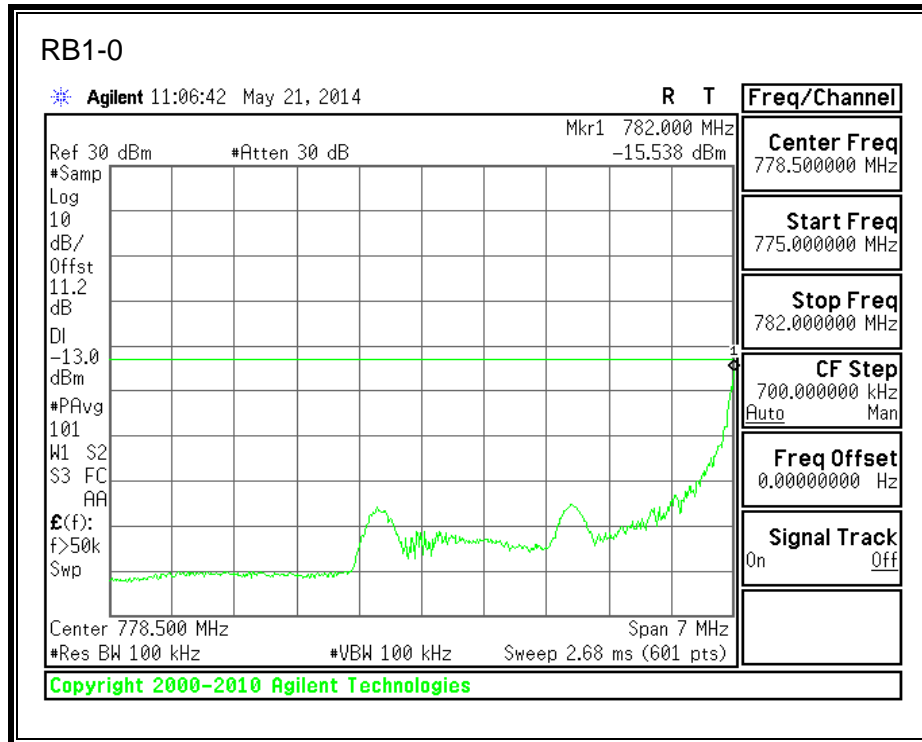


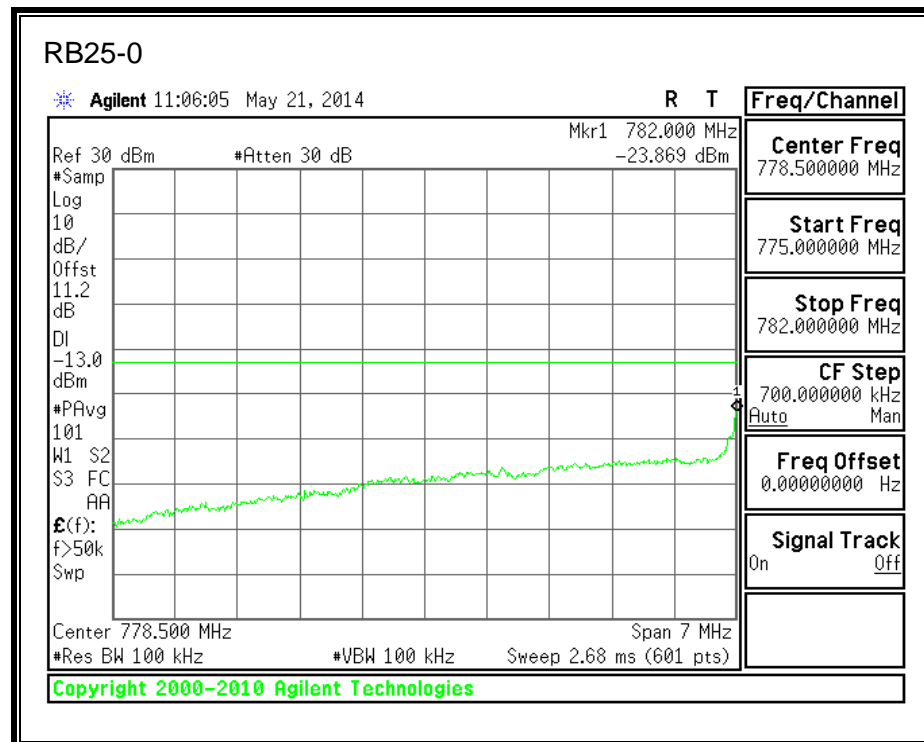
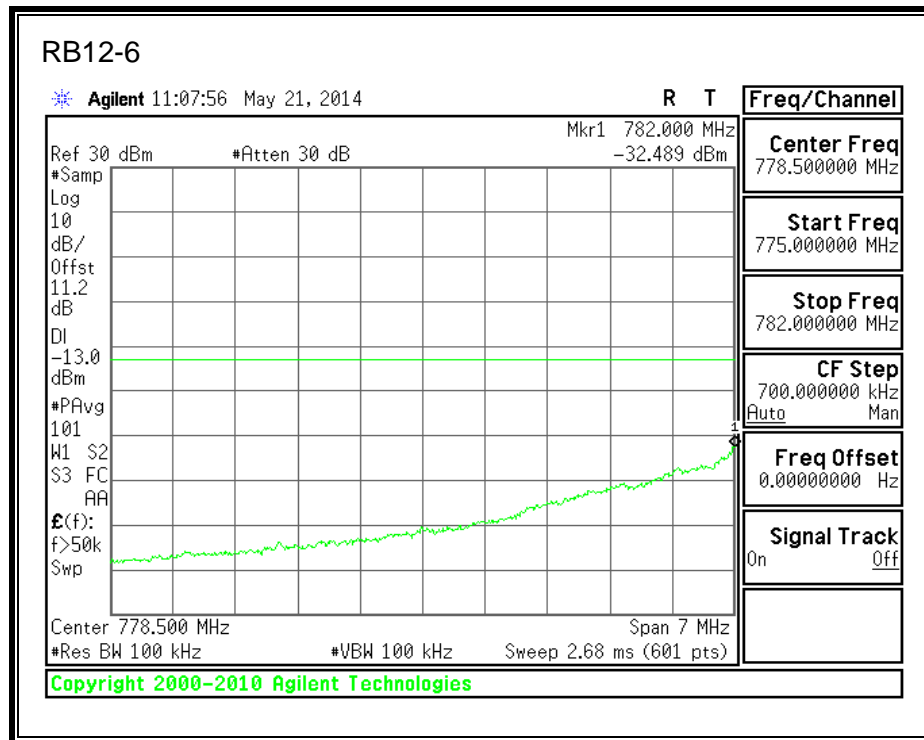
QPSK, 784.5MHz, 775 - 782MHz, (5MHz Bandwidth)



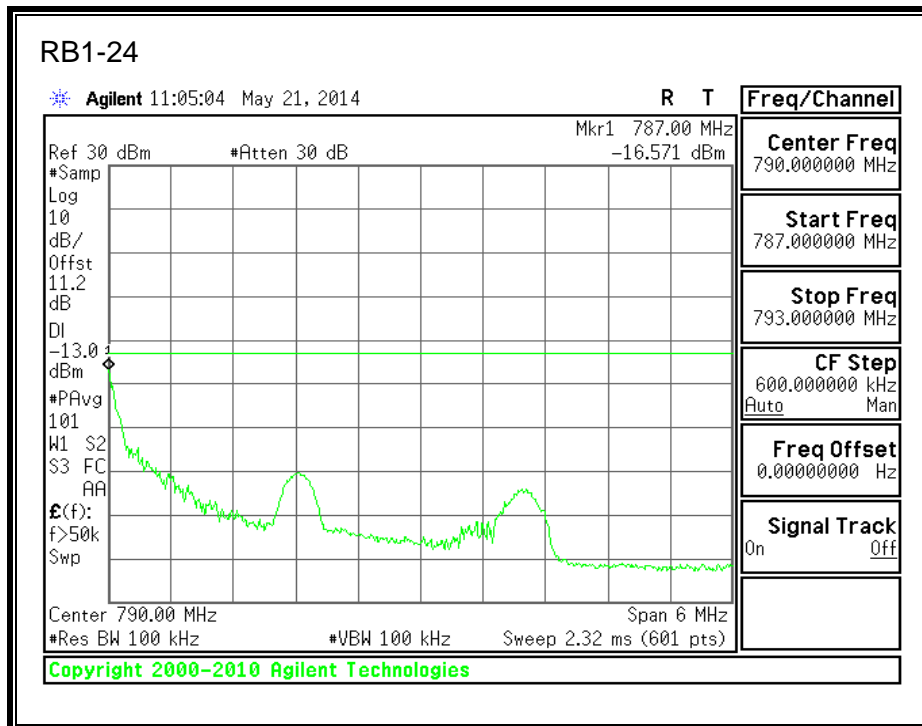
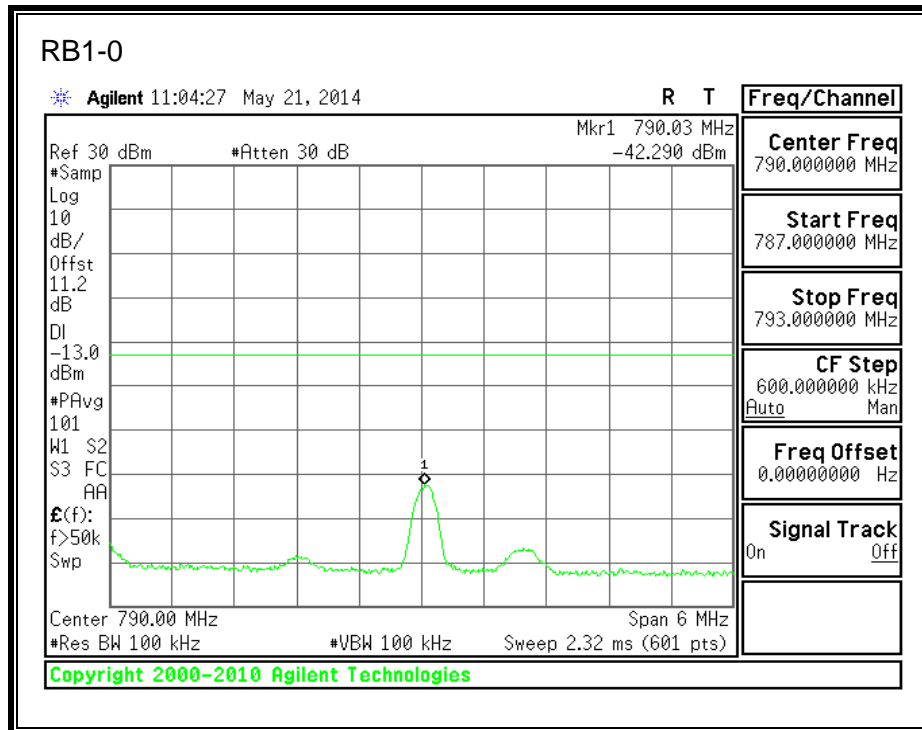


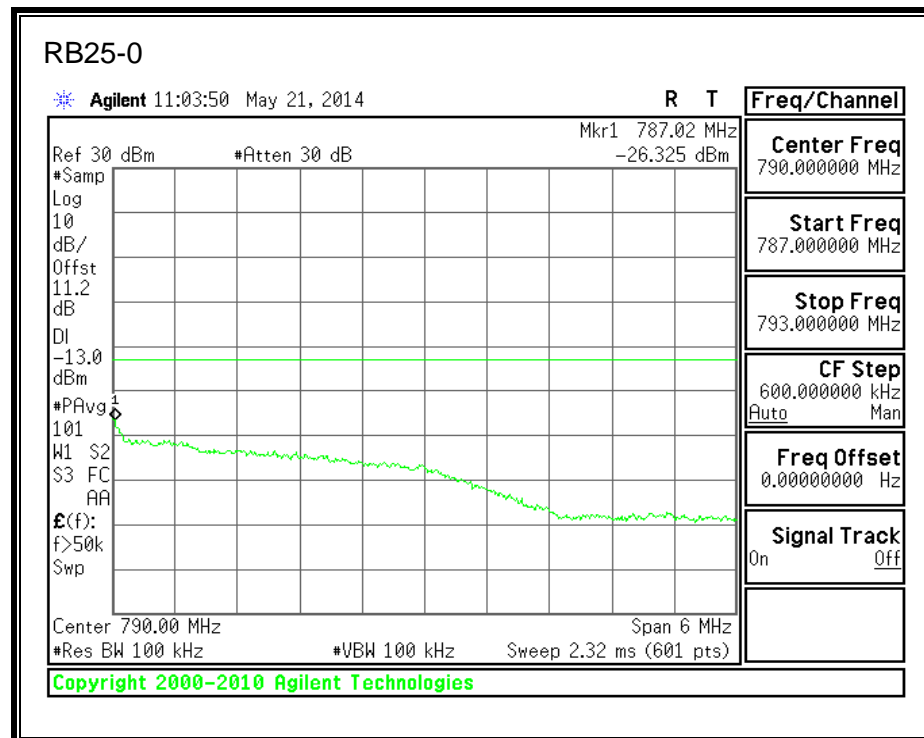
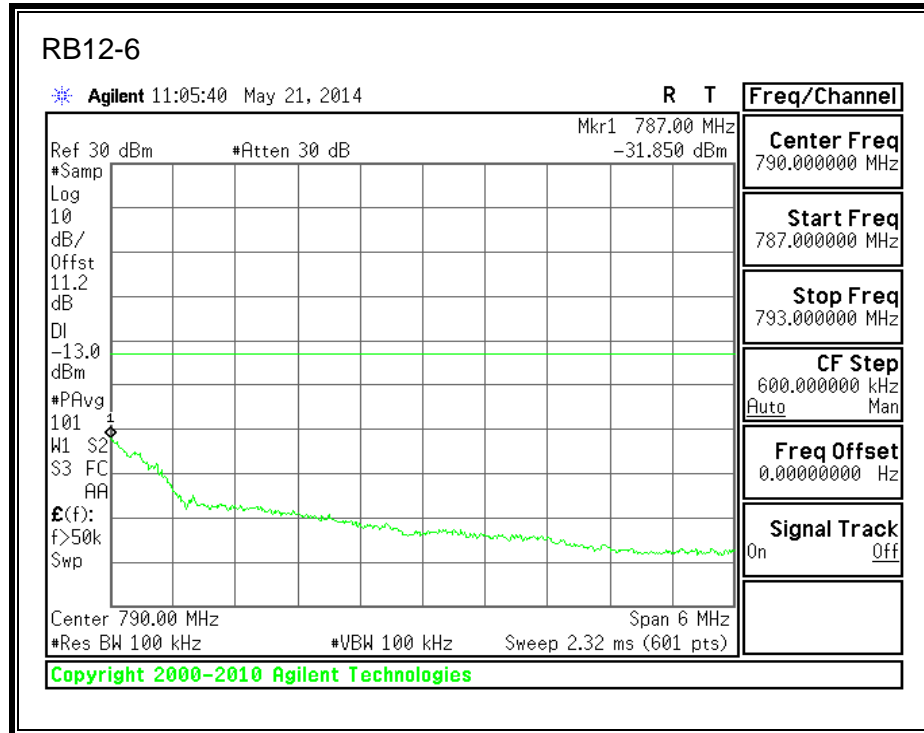
16QAM, 784.5MHz, 775 - 782MHz, (5MHz Bandwidth)



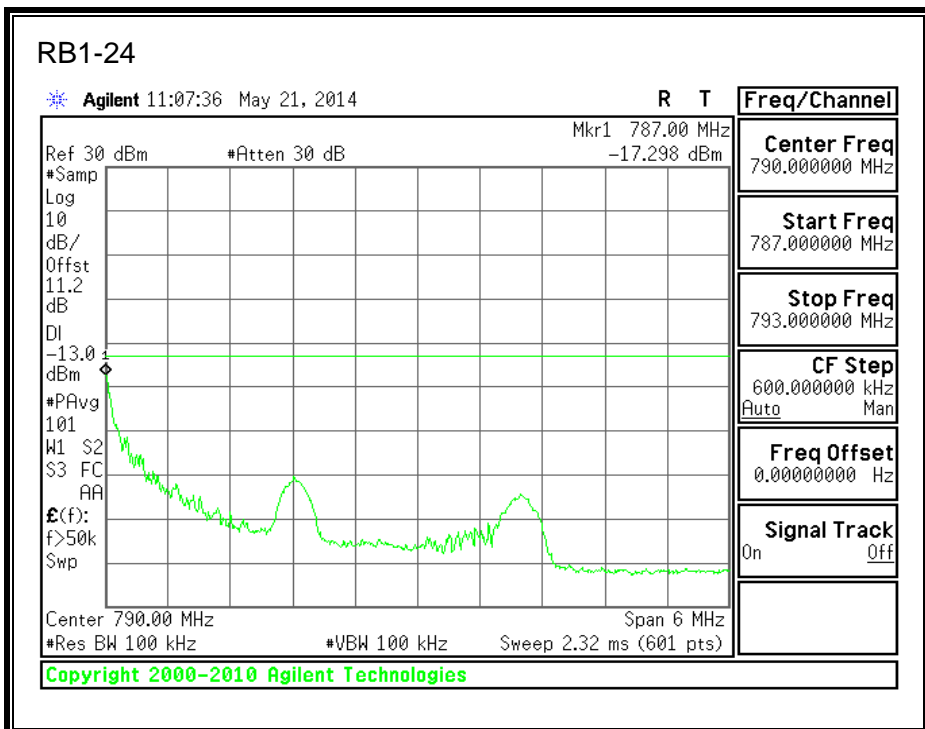
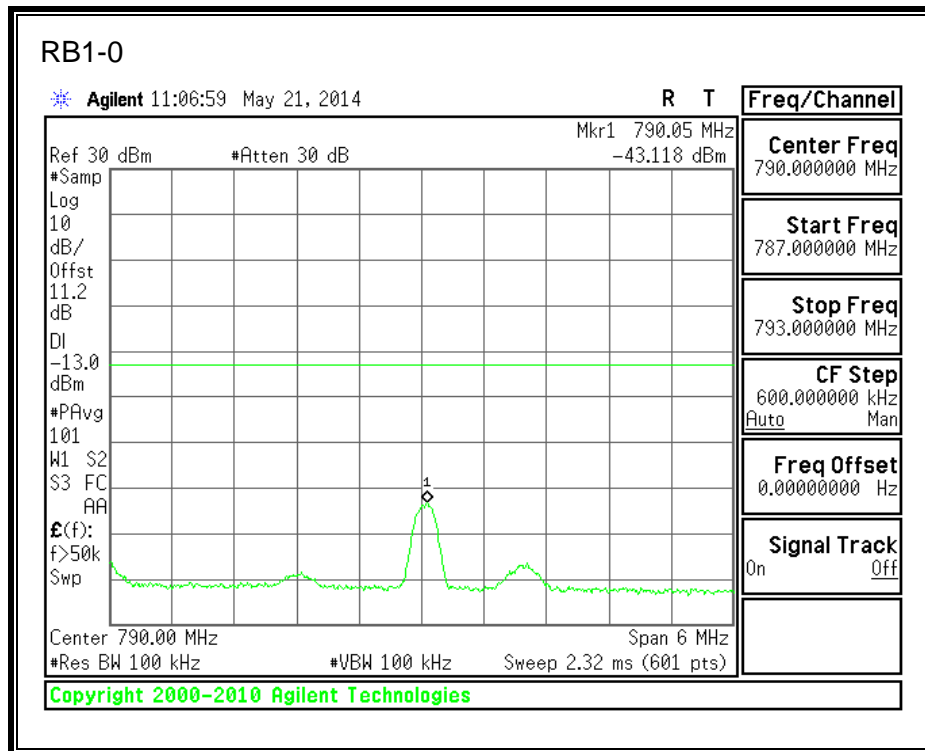


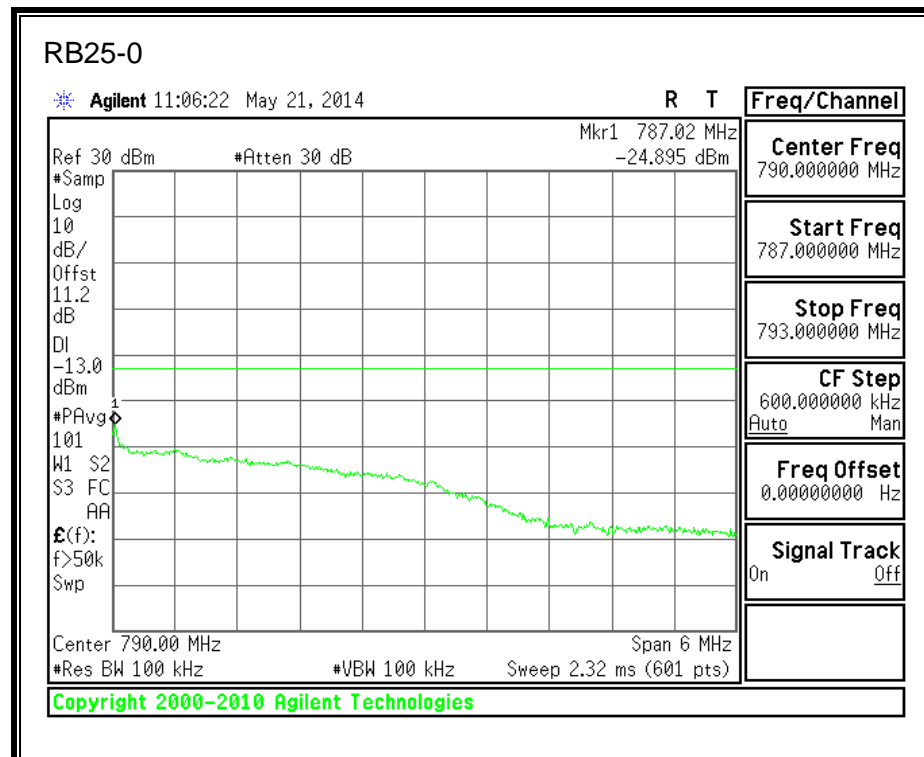
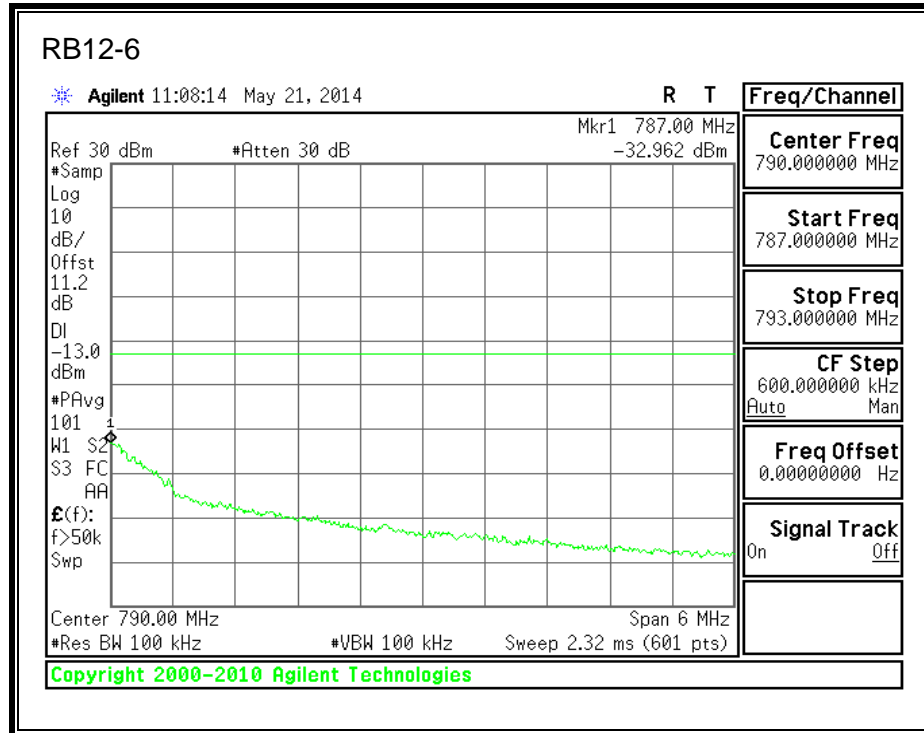
QPSK, 784.5MHz, 787 - 793MHz, (5MHz Bandwidth)



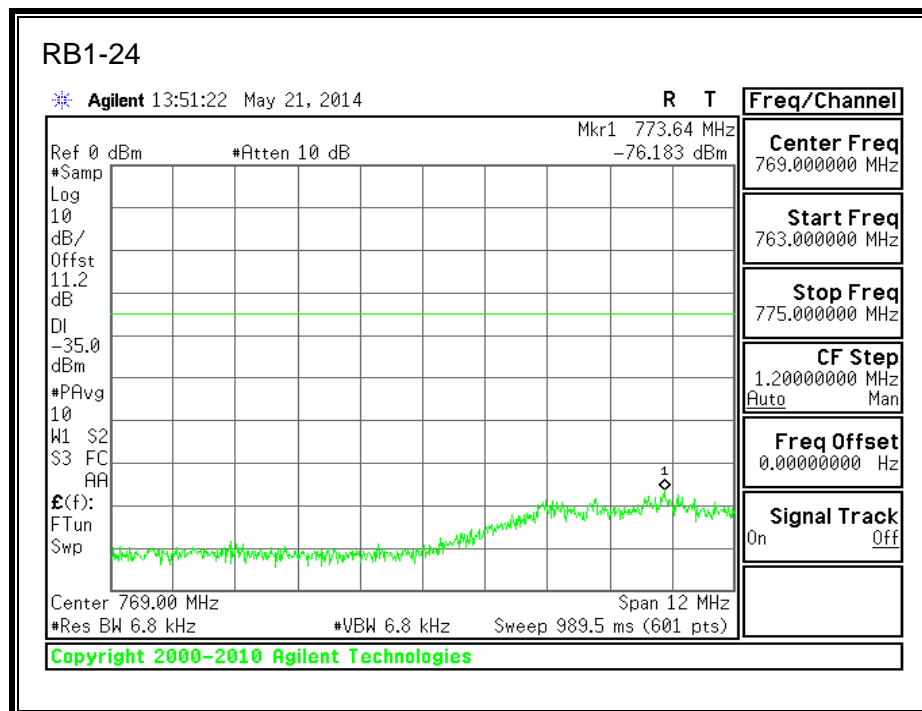
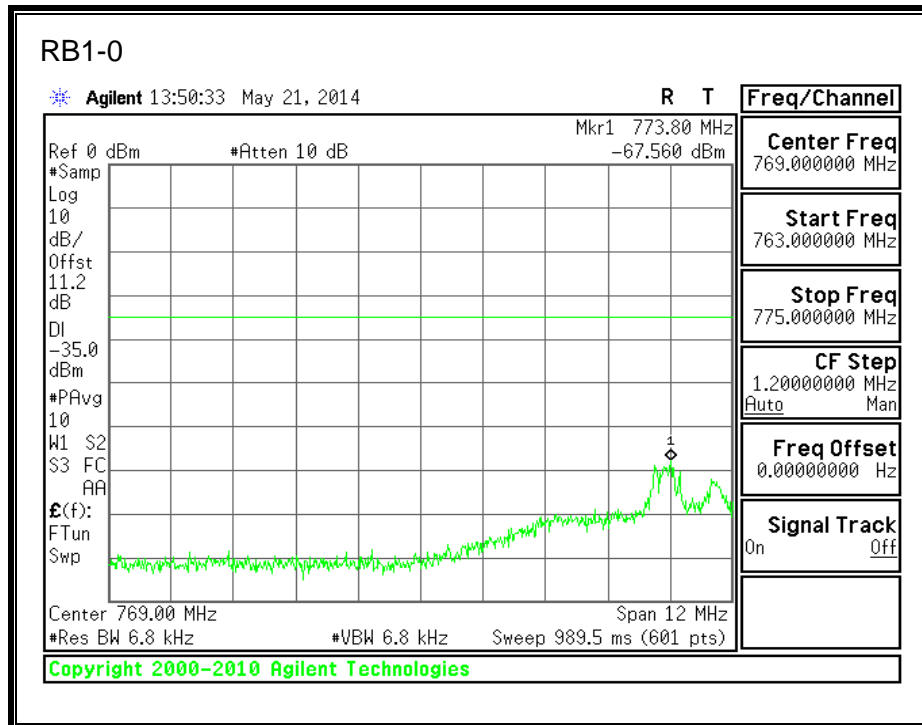


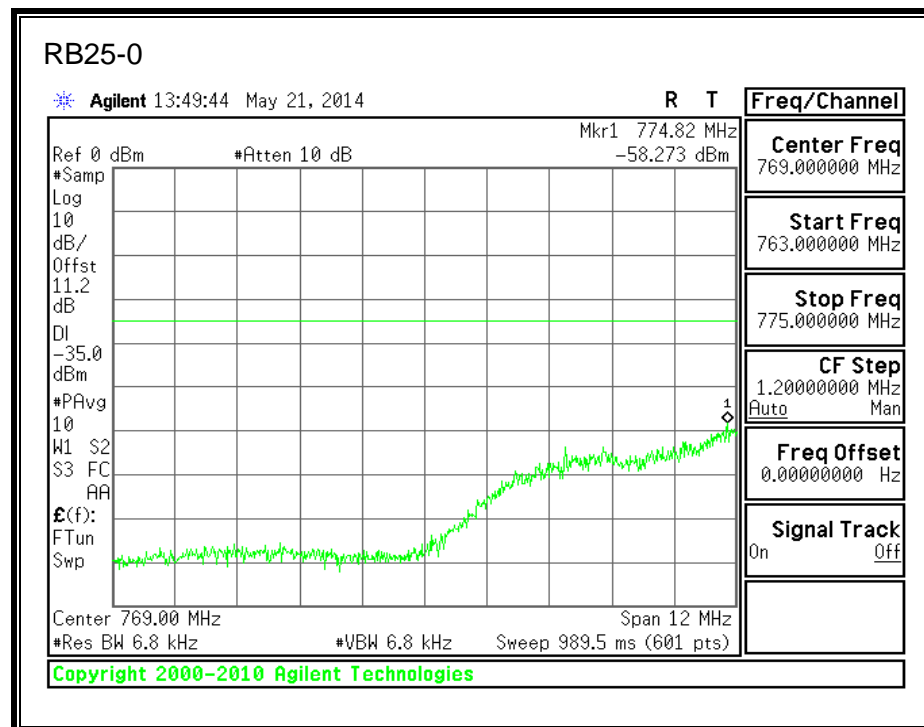
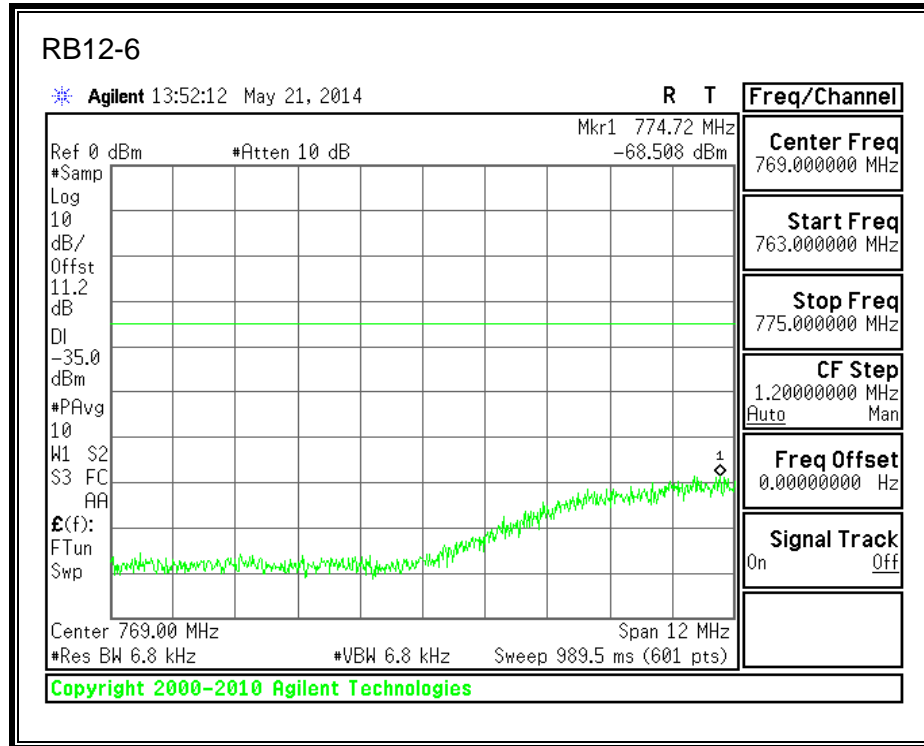
16QAM, 784.5MHz, 787 - 793MHz, (5MHz Bandwidth)



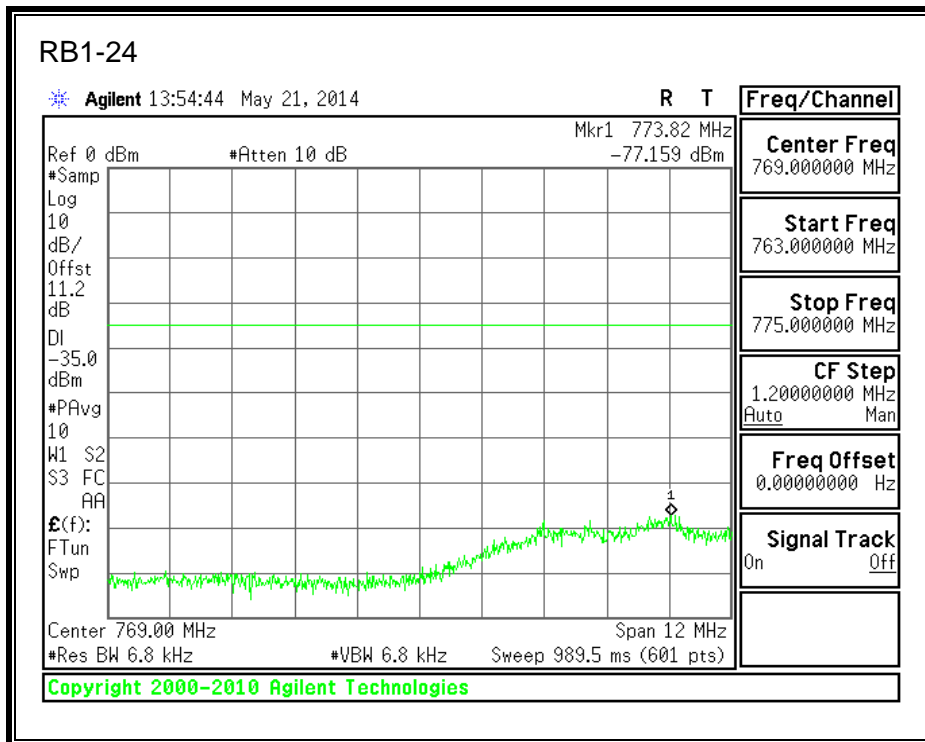
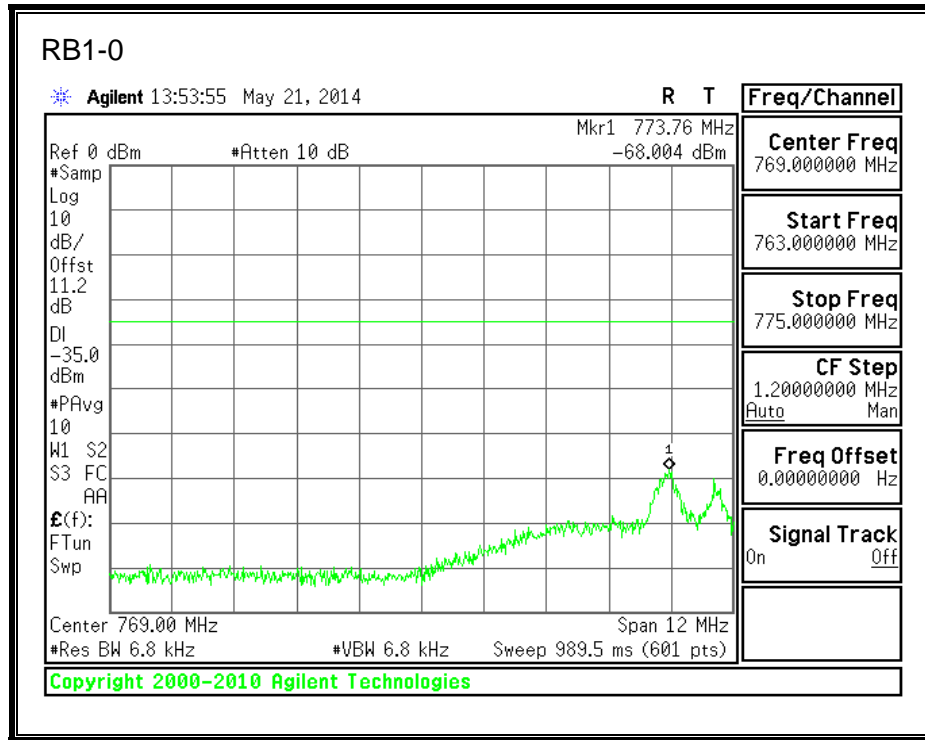


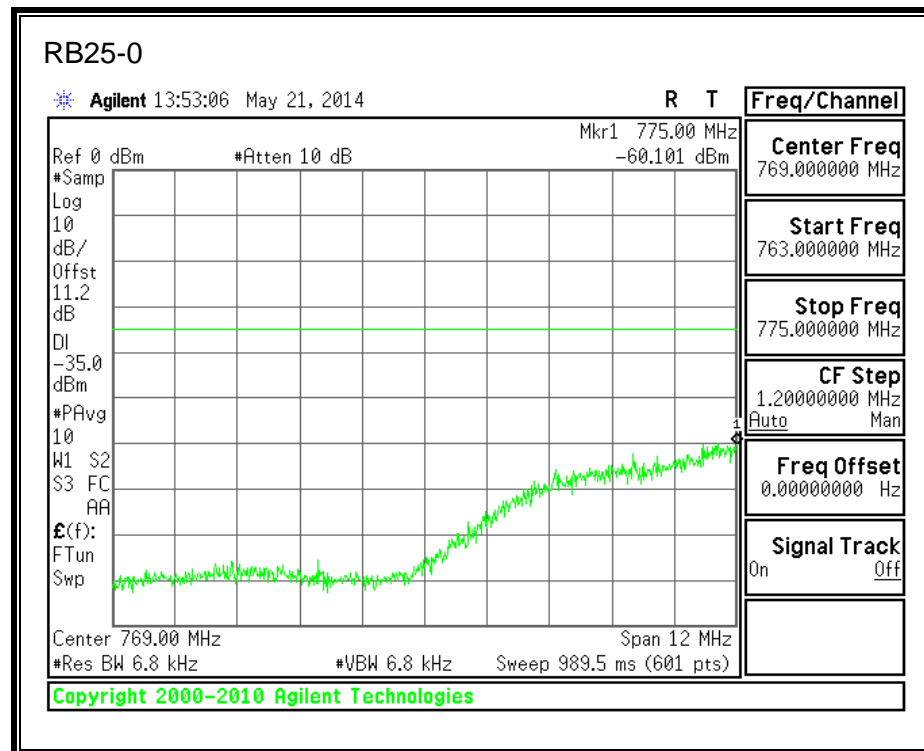
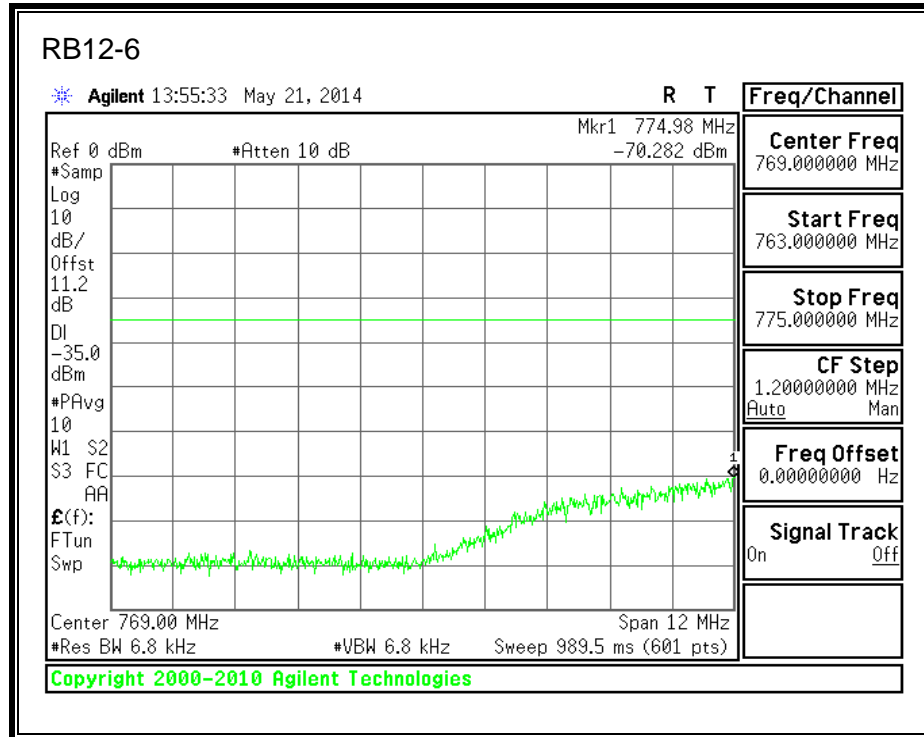
QPSK, 784.5MHz, 763 - 775MHz, (5MHz Bandwidth)



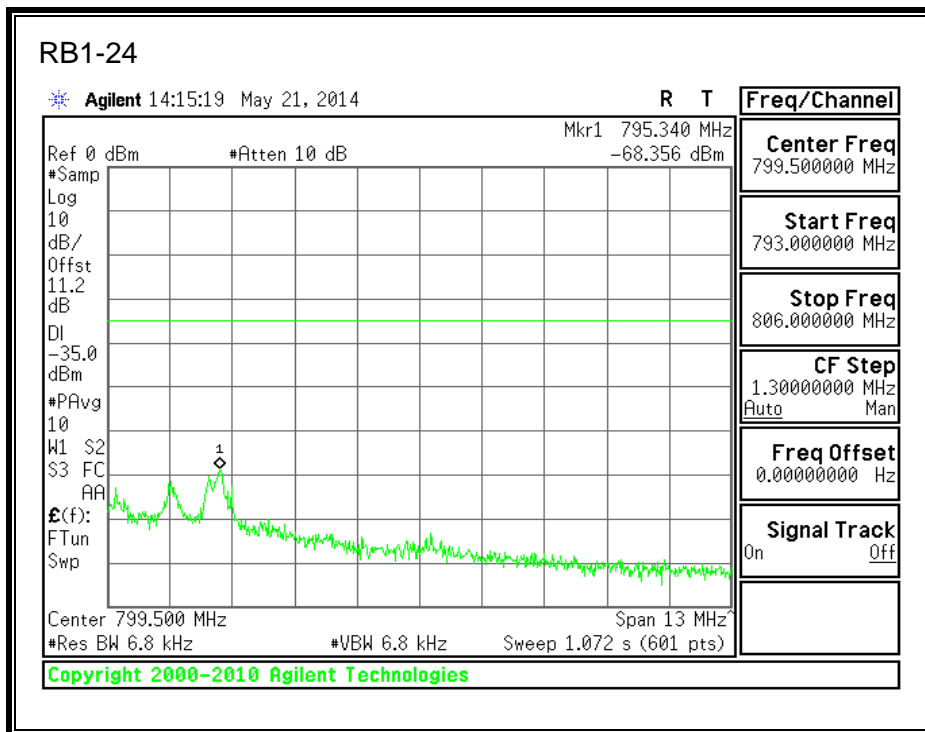
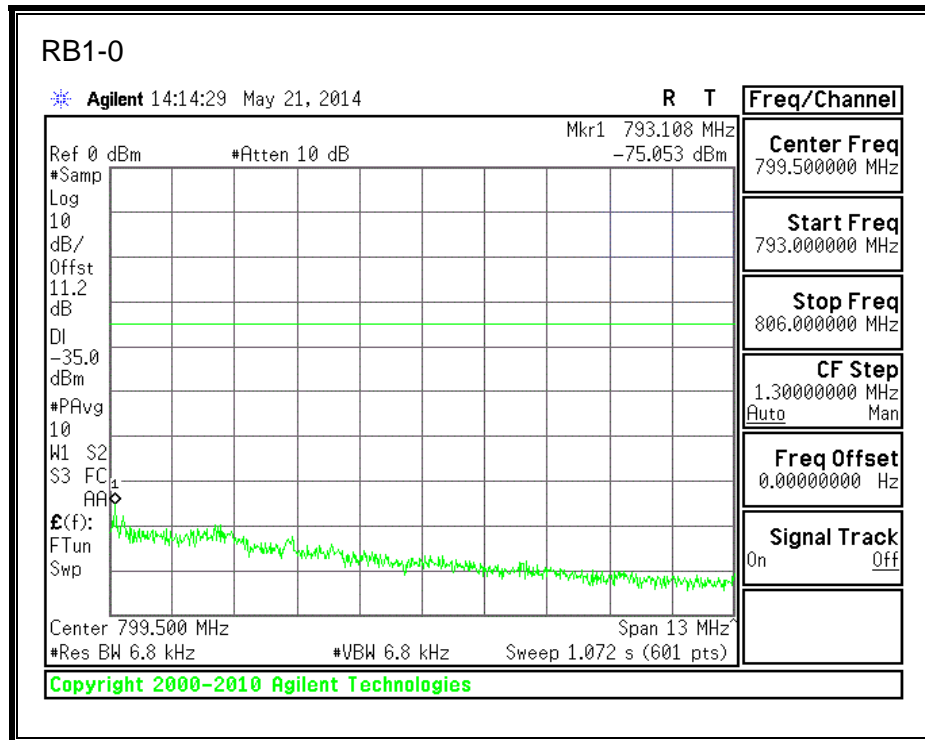


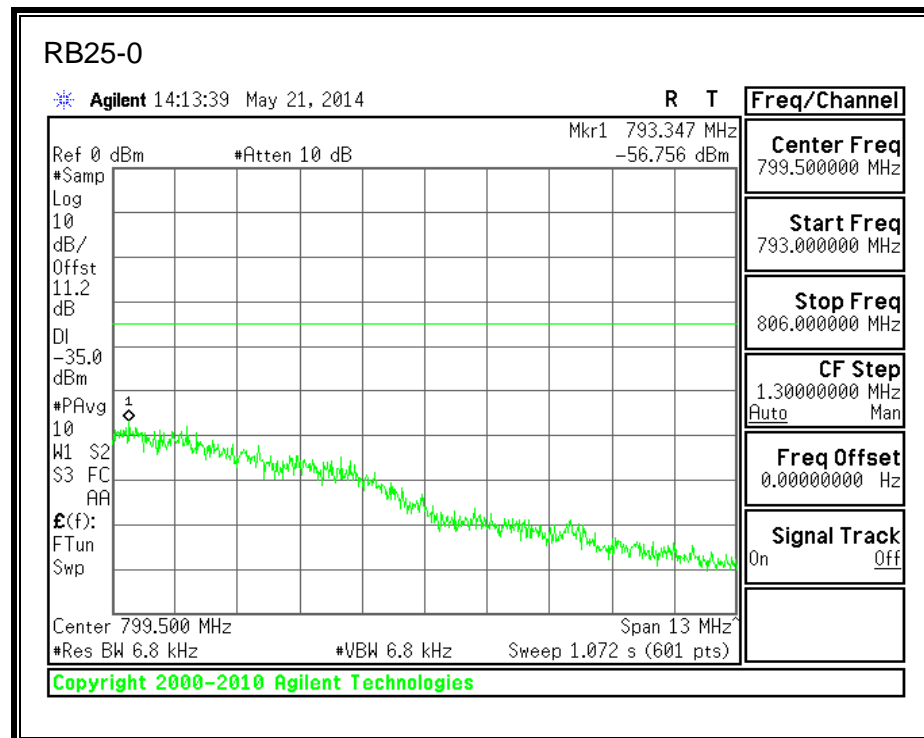
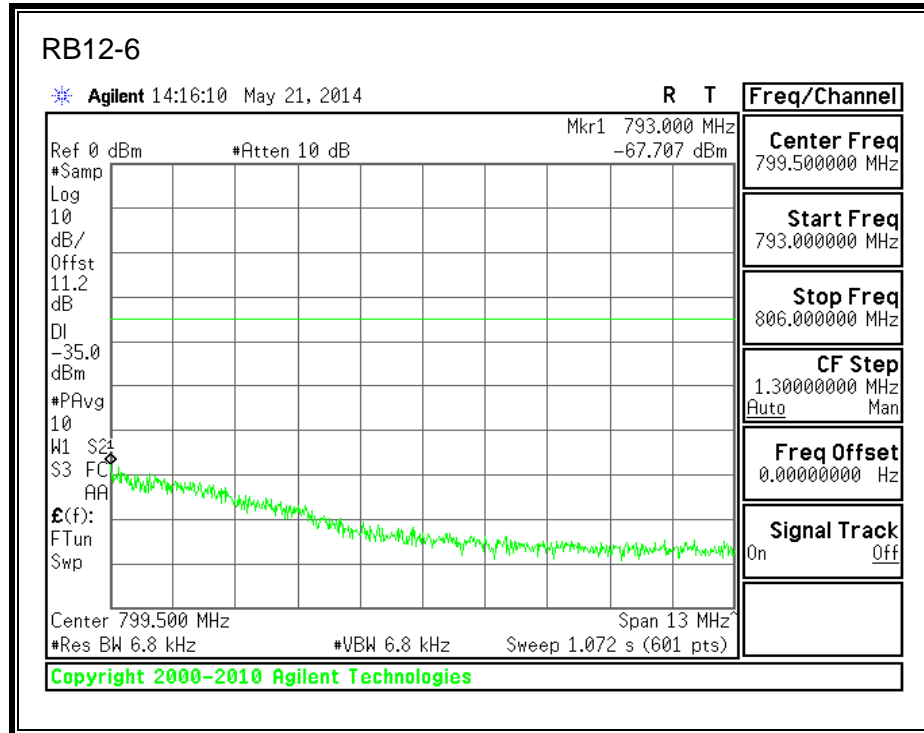
16QAM, 784.5MHz, 763 - 775MHz, (5MHz Bandwidth)



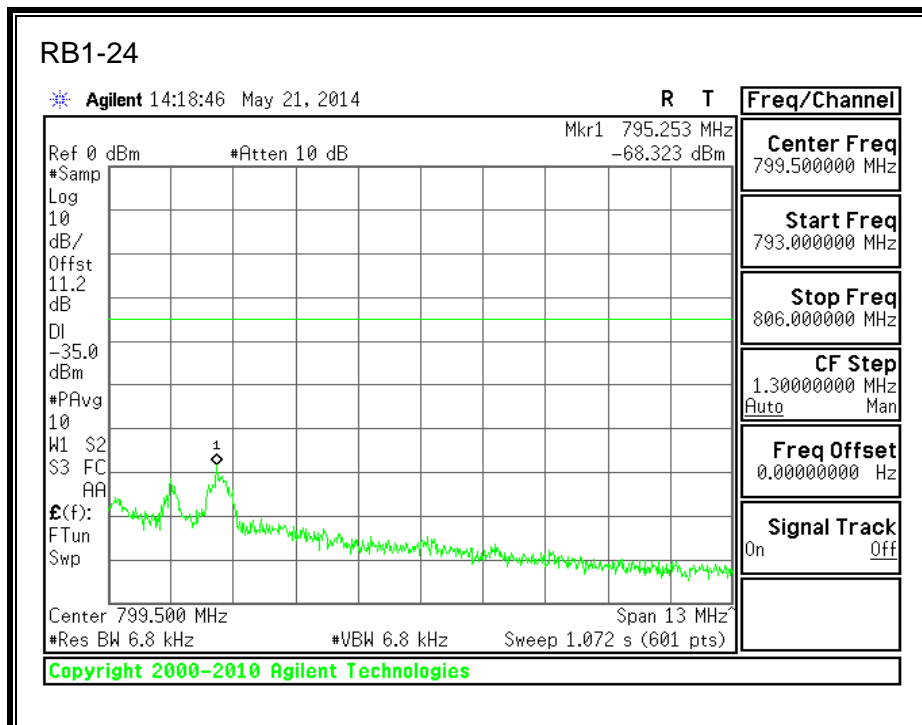
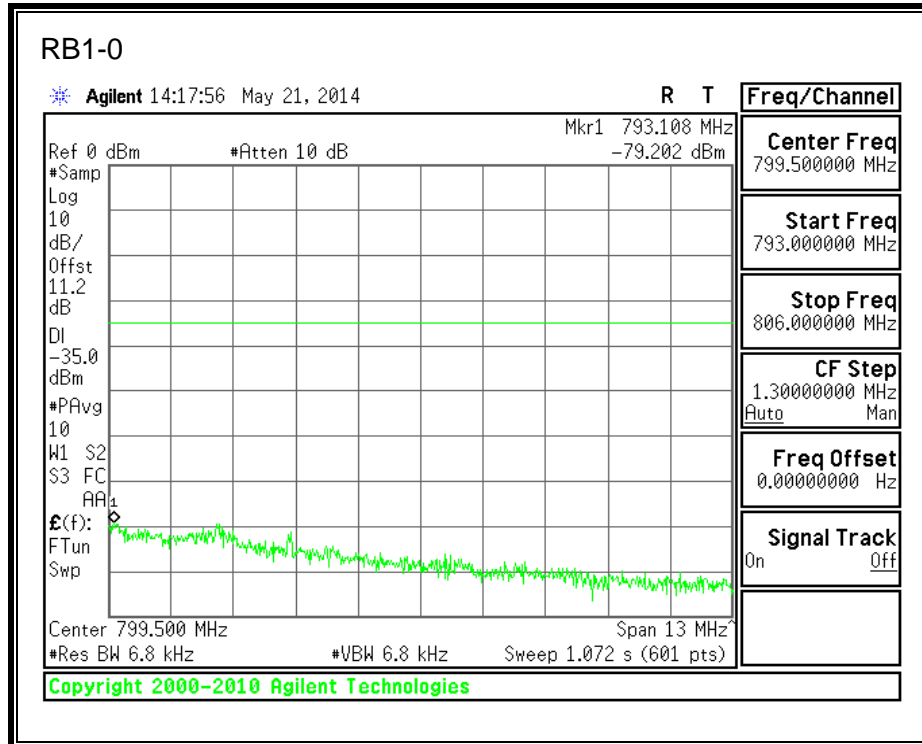


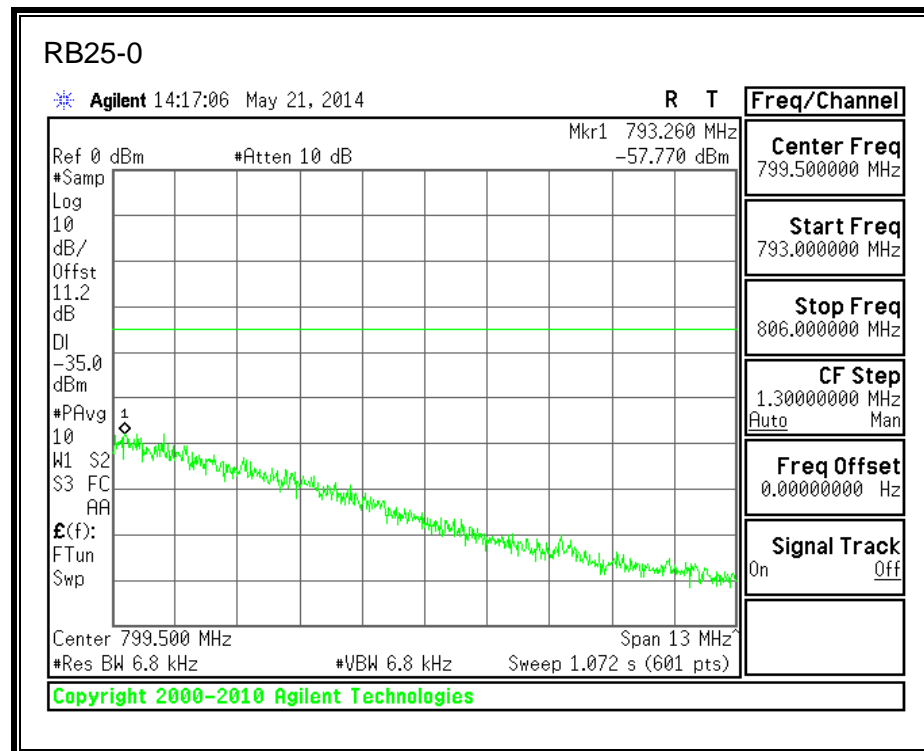
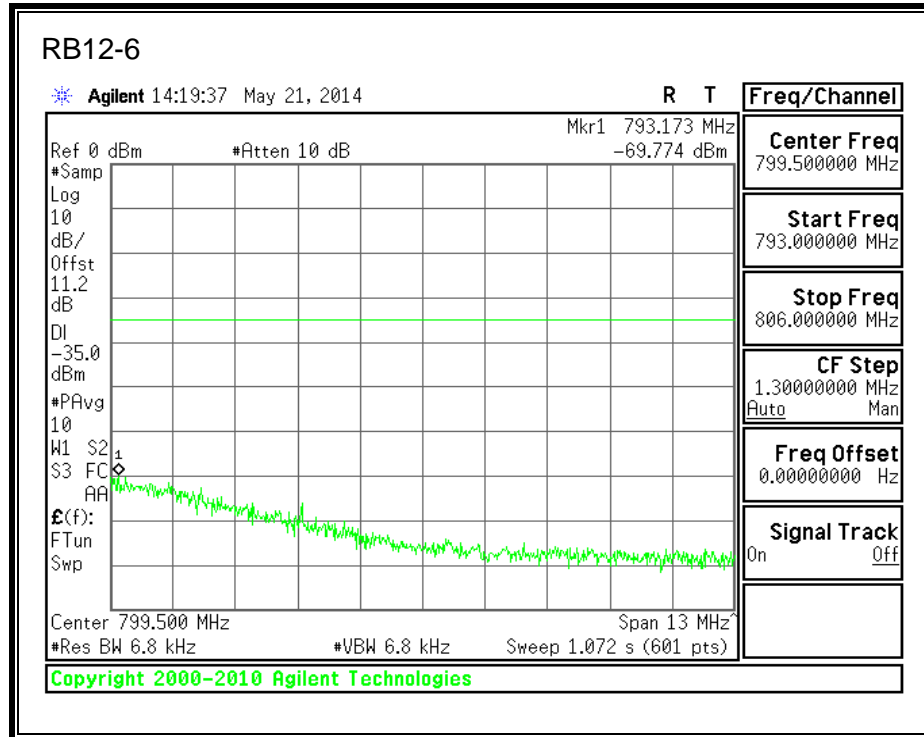
QPSK, 784.5MHz, 793 - 806MHz, (5MHz Bandwidth)



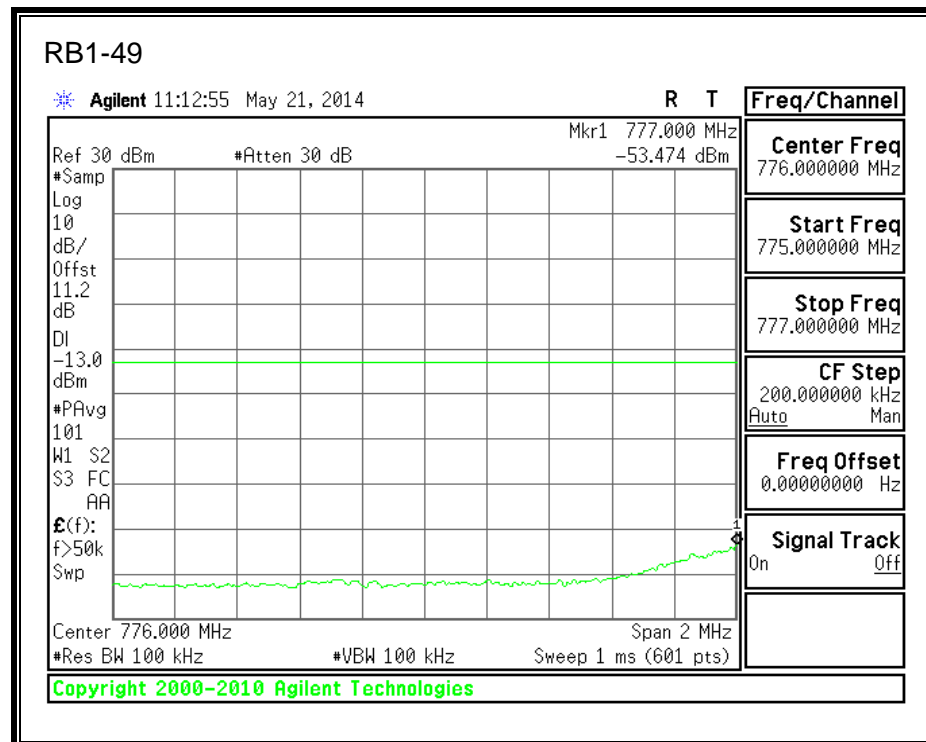
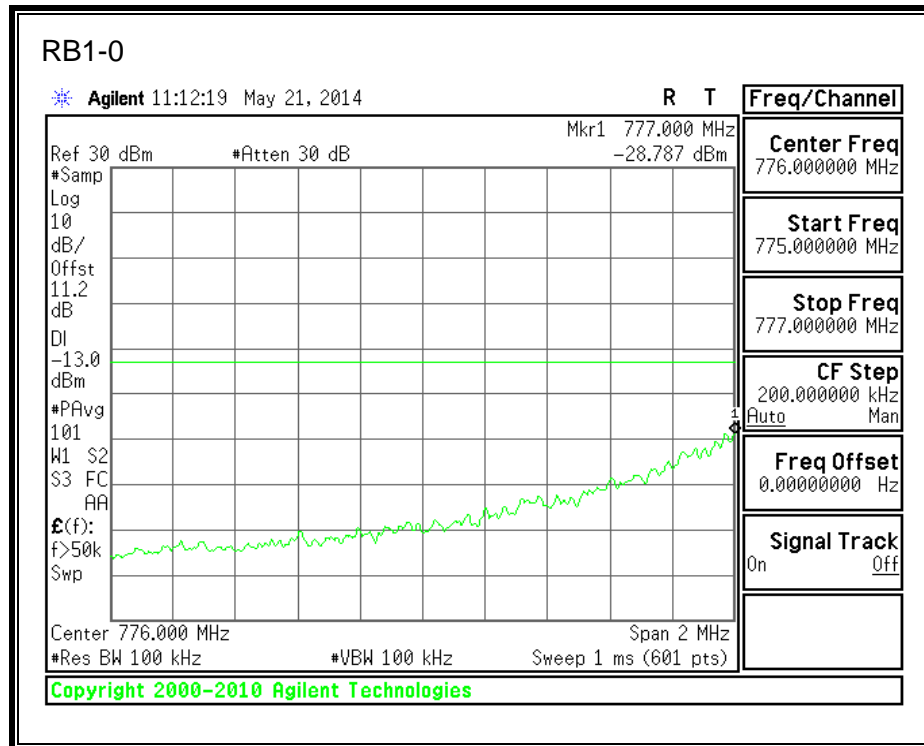


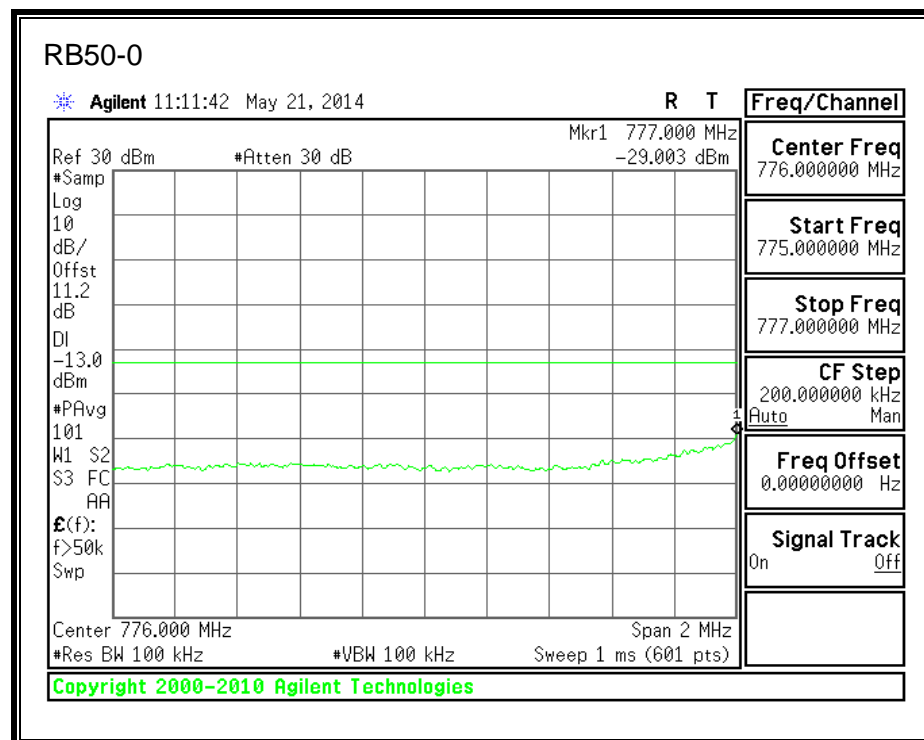
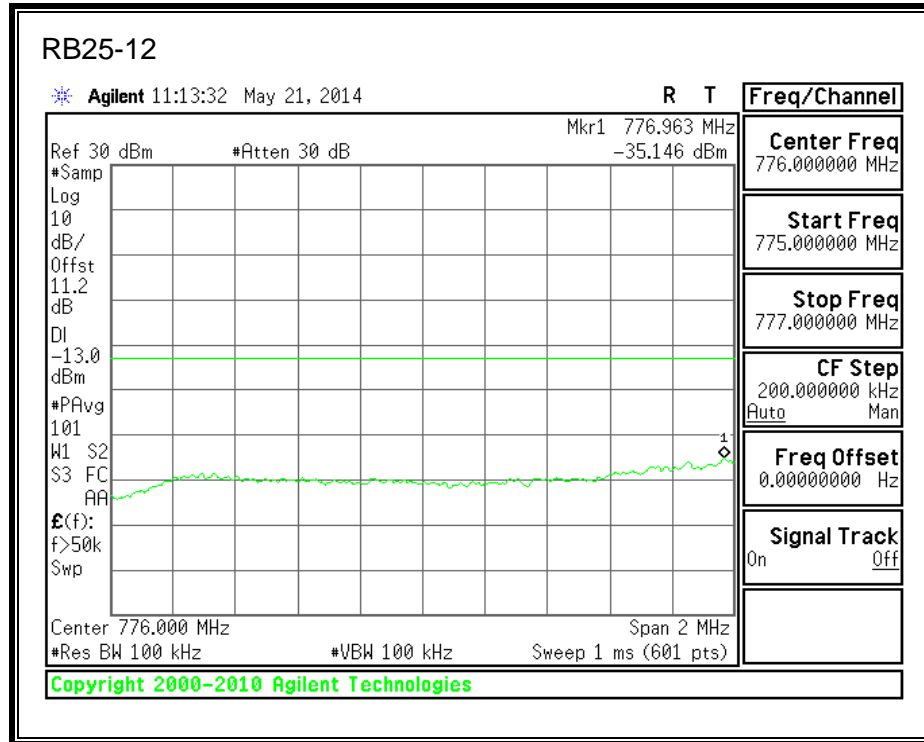
16QAM, 784.5MHz, 793 - 806MHz, (5MHz Bandwidth)



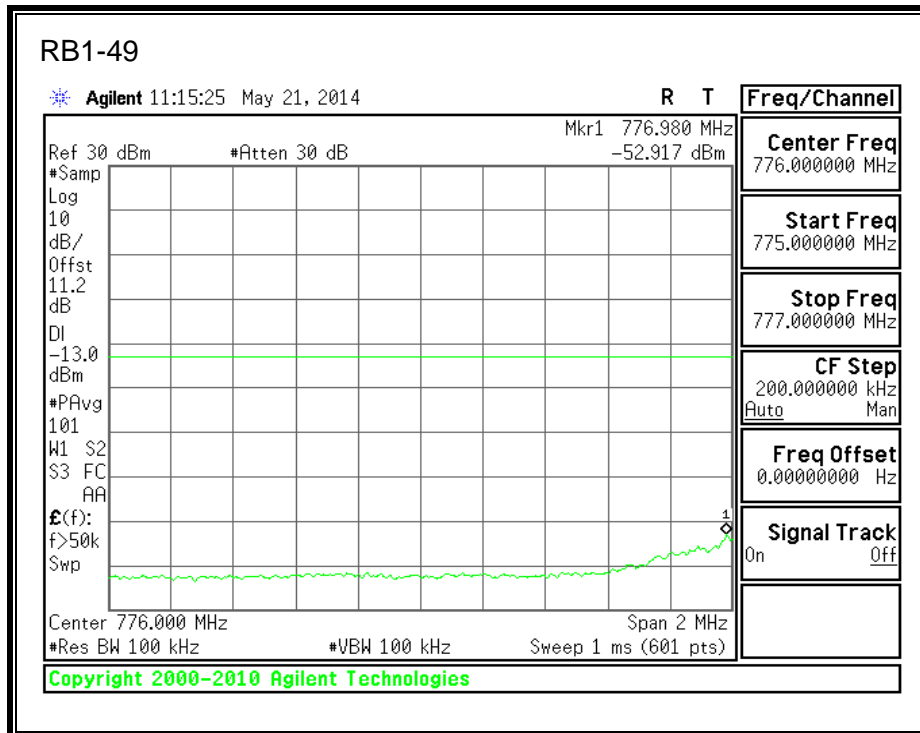
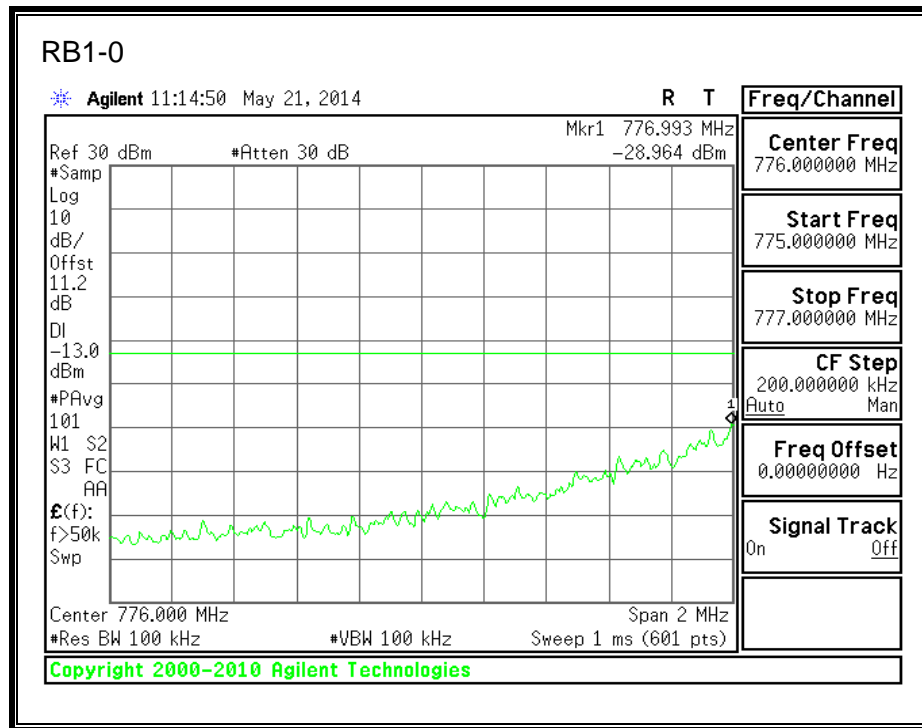


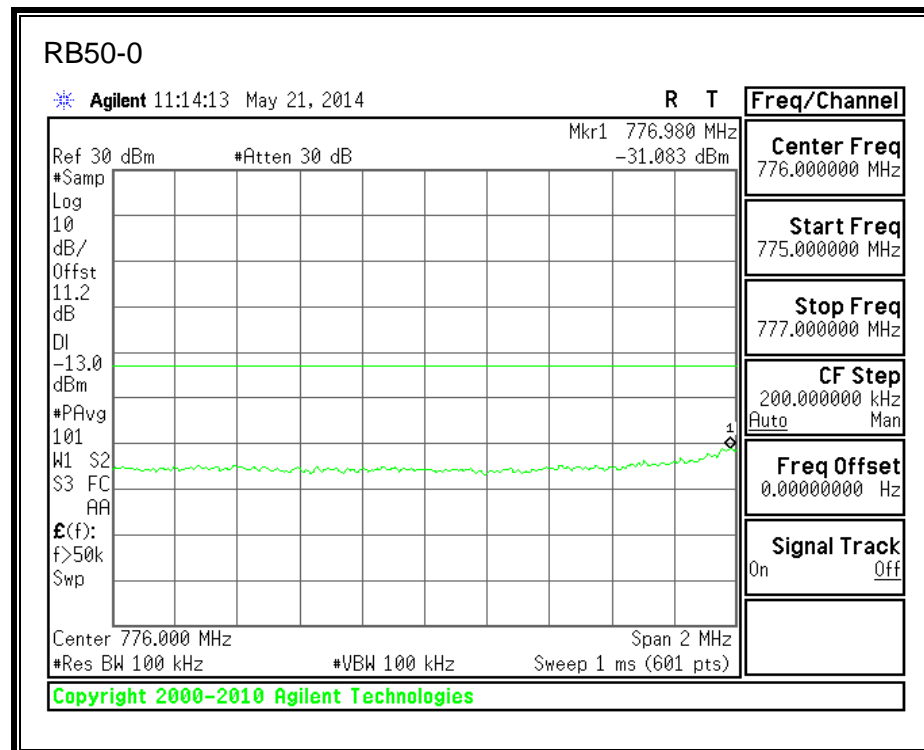
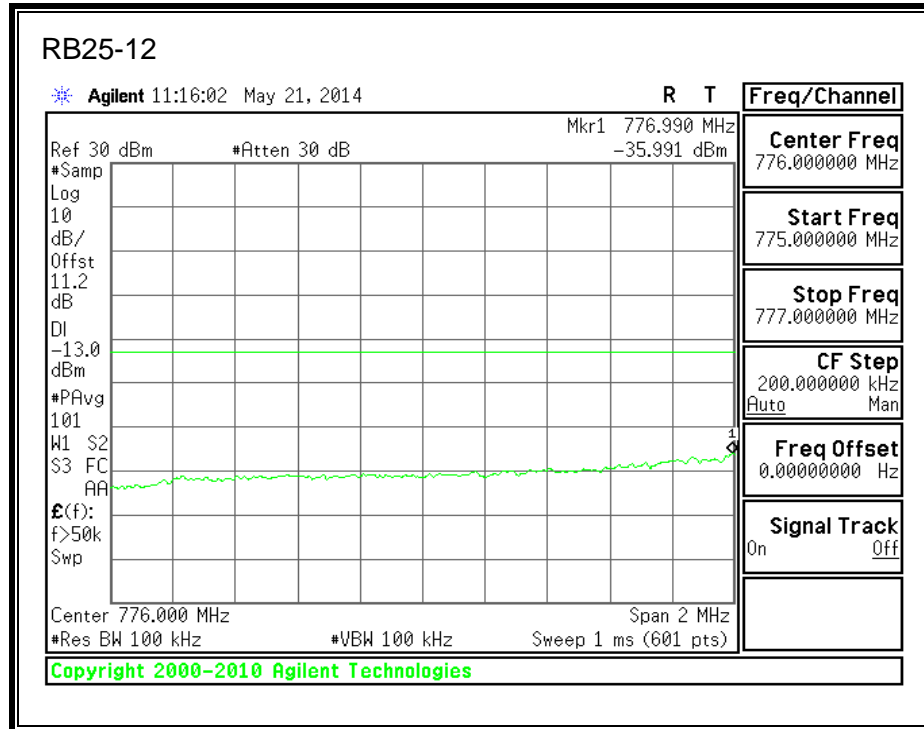
QPSK, 782MHz, 775 - 777MHz, (10MHz Bandwidth)



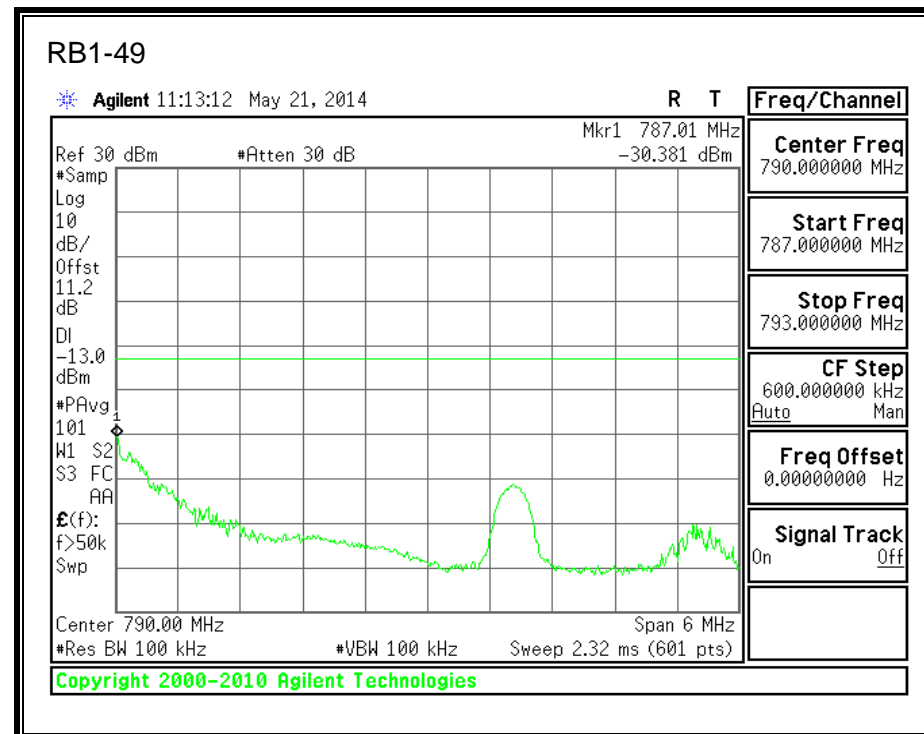
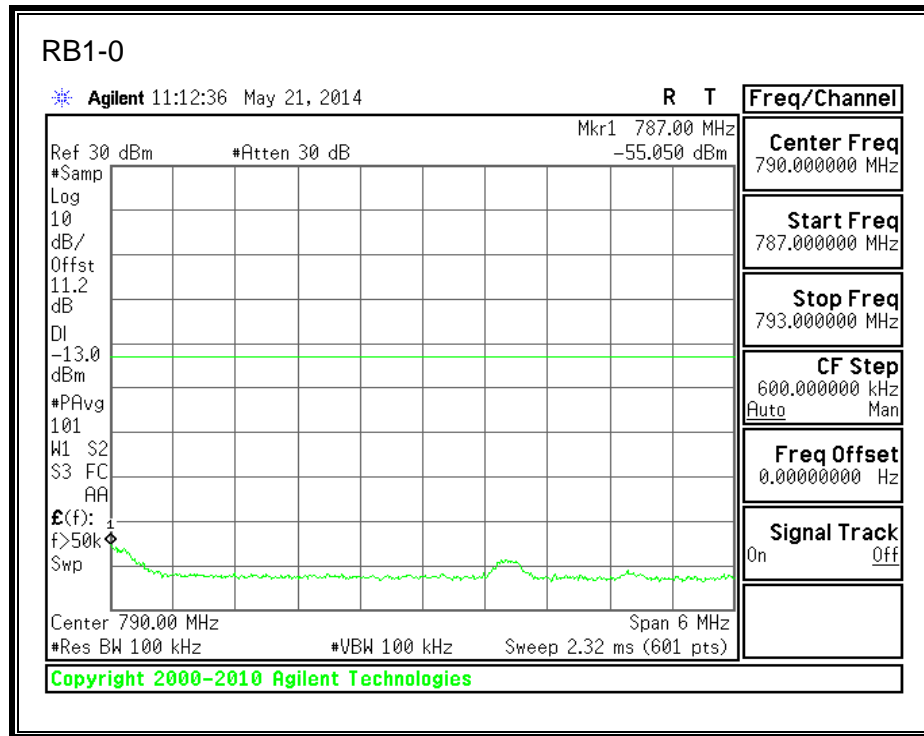


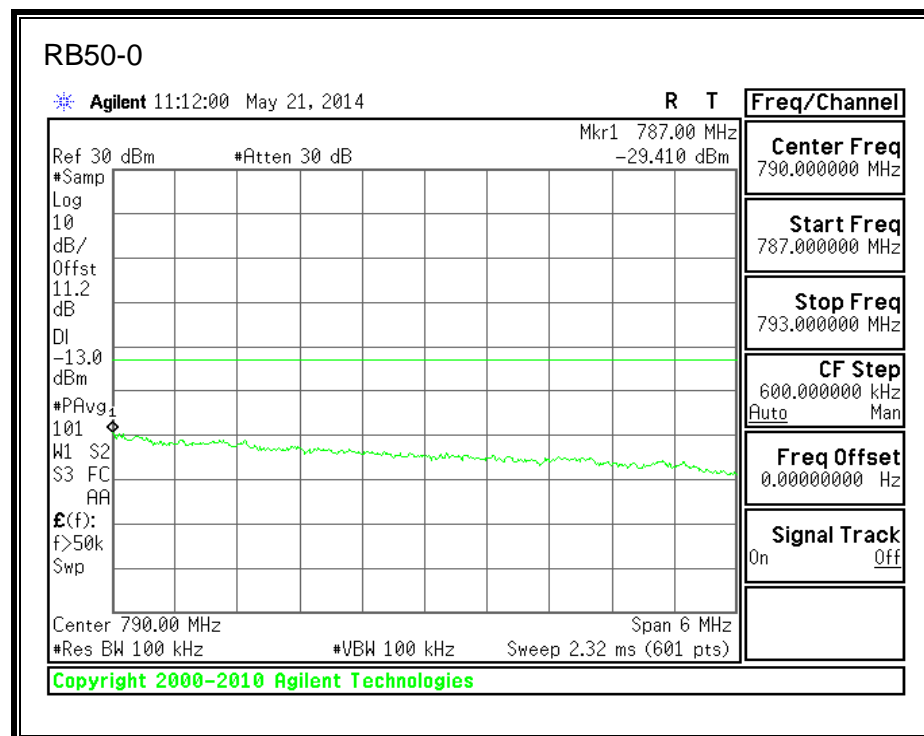
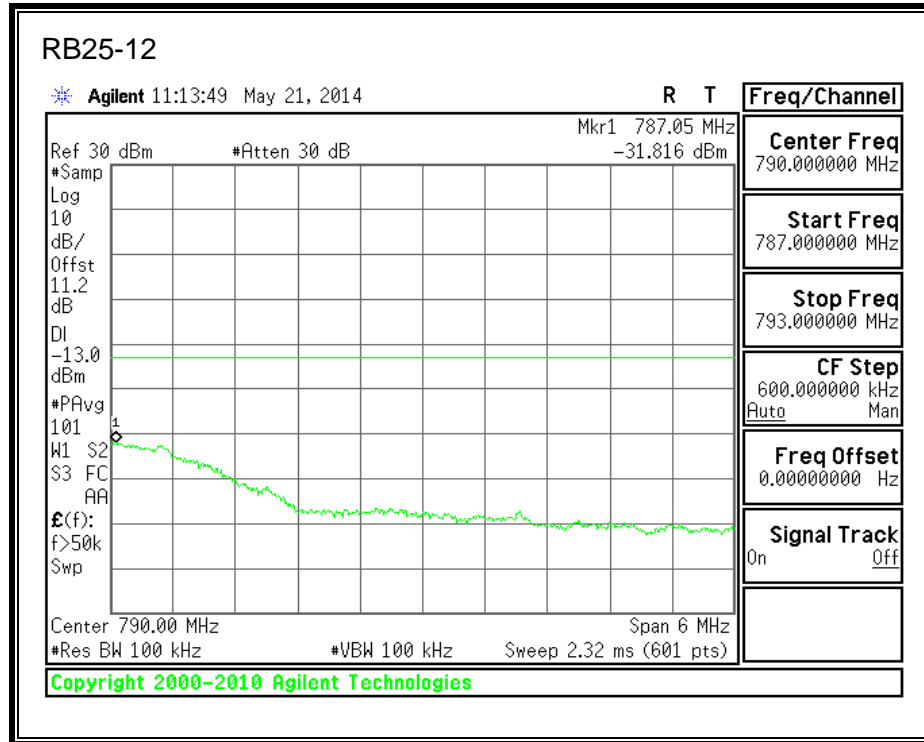
16QAM, 782MHz, 775 - 777MHz, (10MHz Bandwidth)



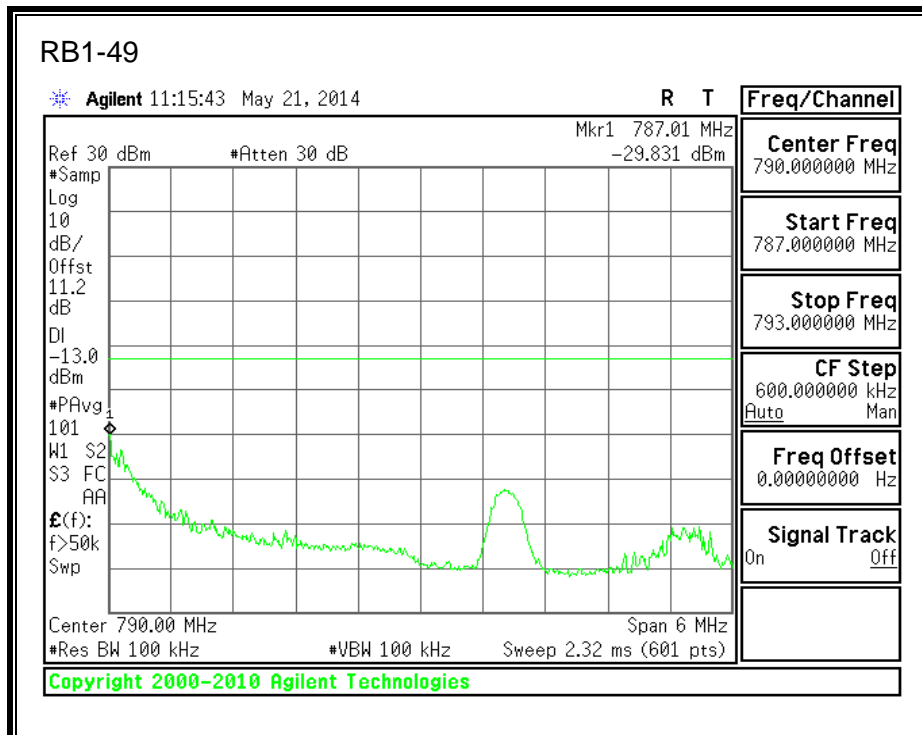
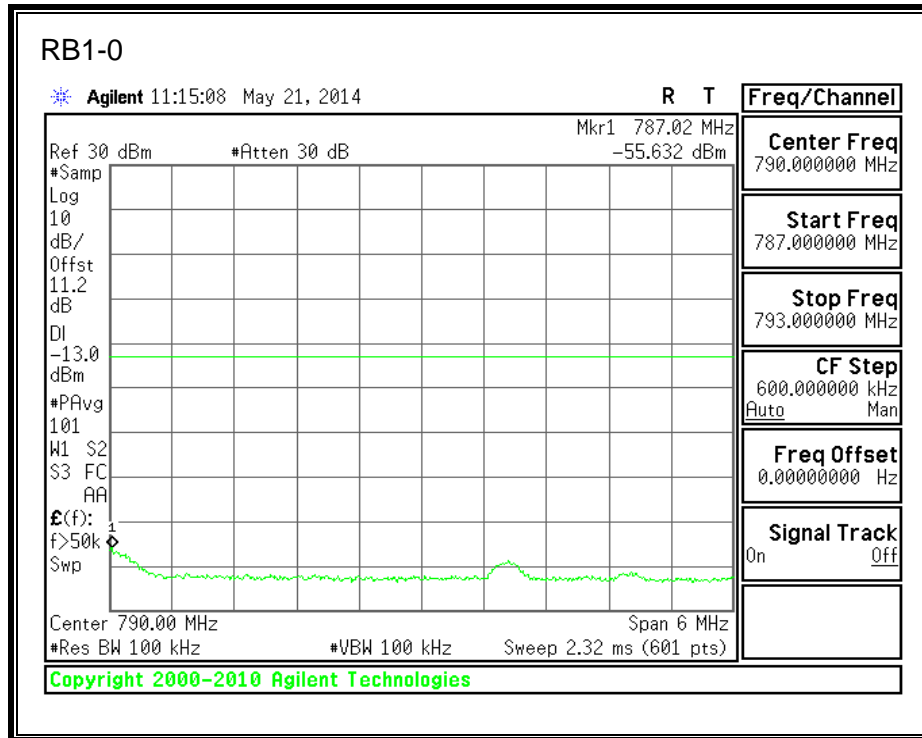


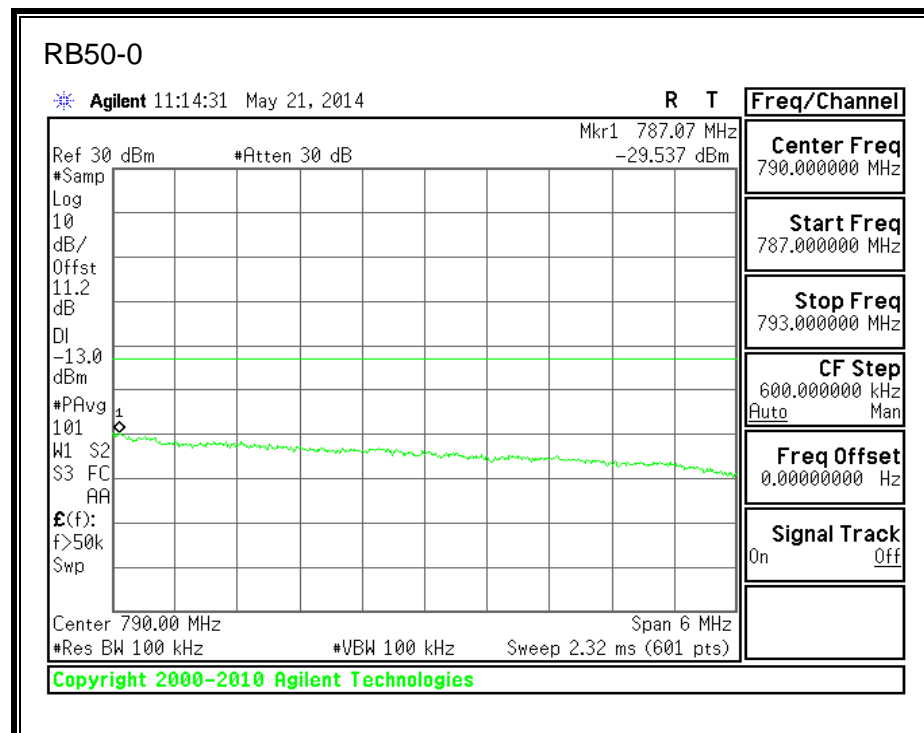
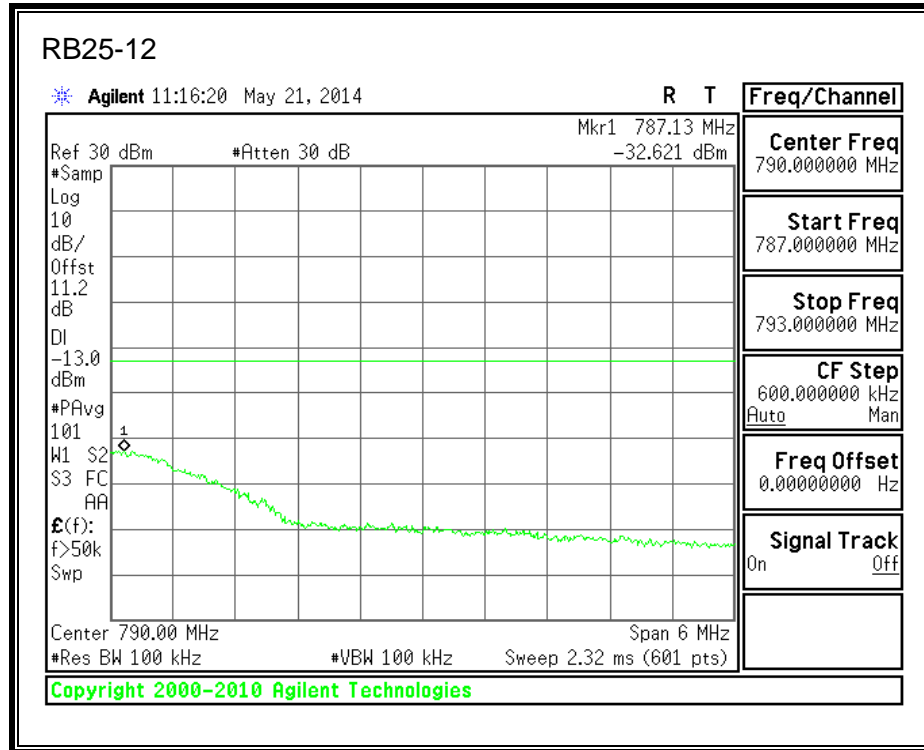
QPSK, 782MHz, 787 - 793MHz, (10MHz Bandwidth)



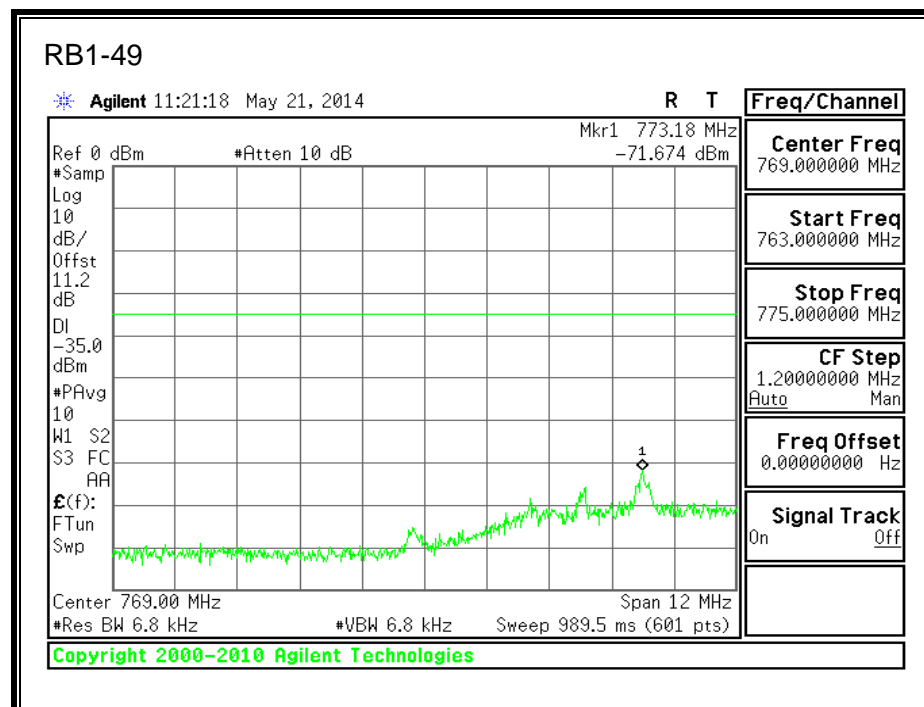
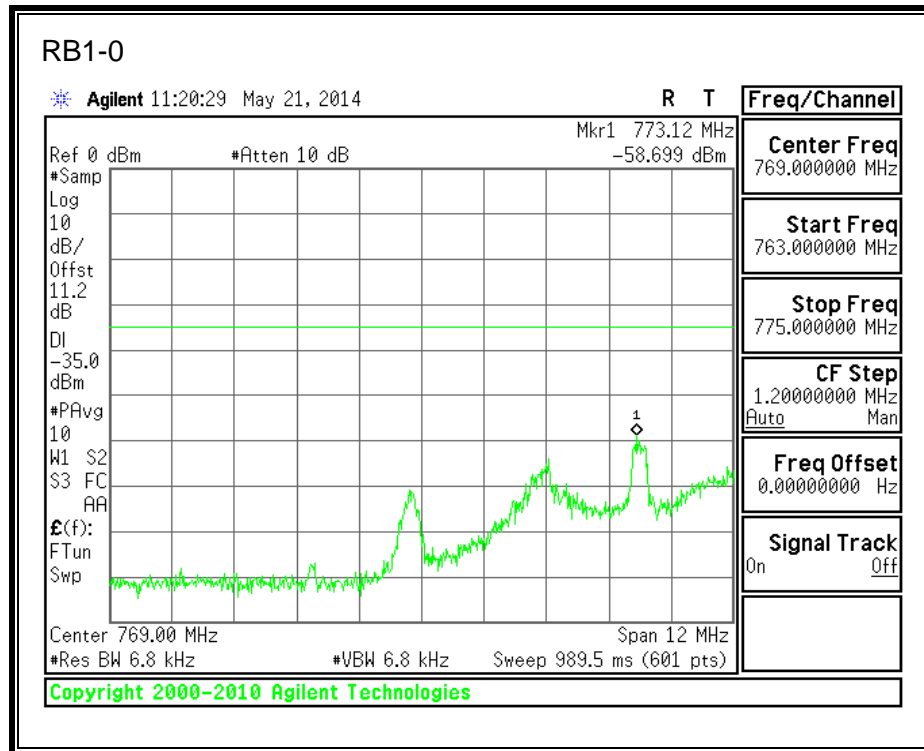


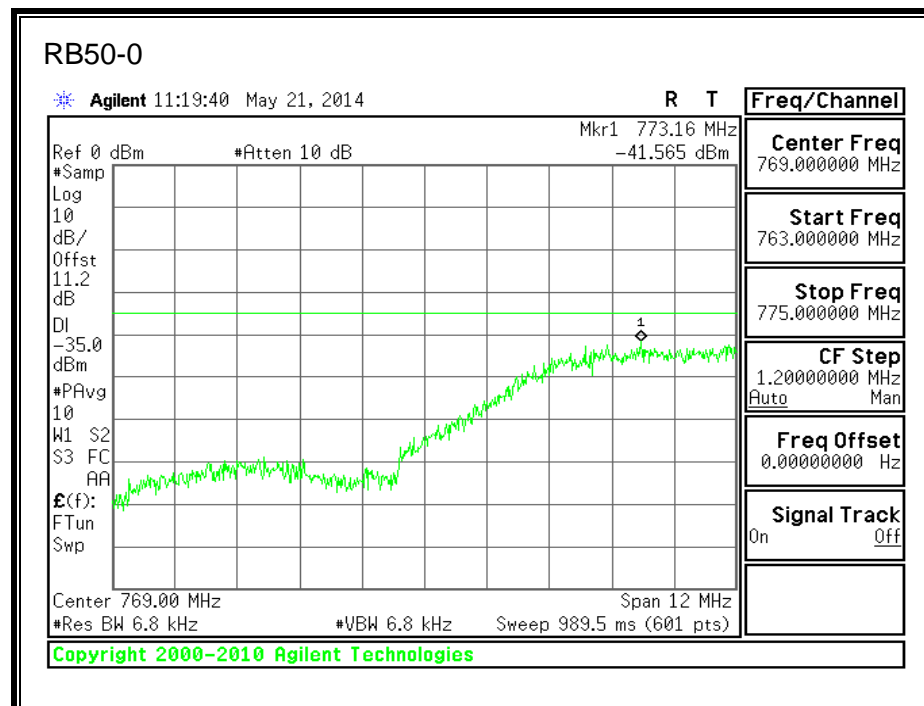
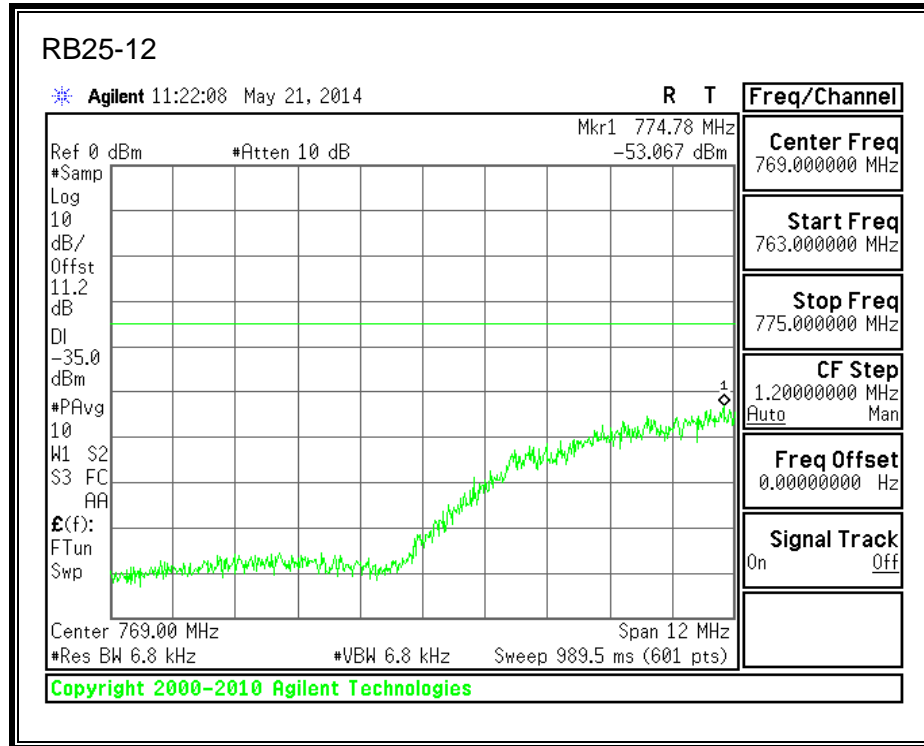
16QAM, 782MHz, 787 - 793MHz, (10MHz Bandwidth)



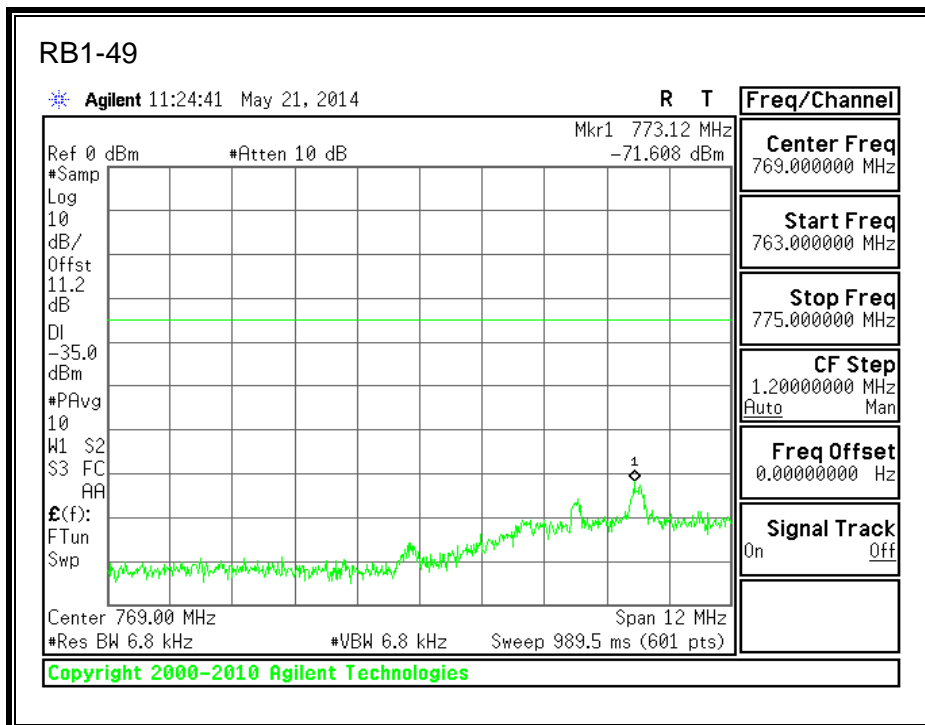
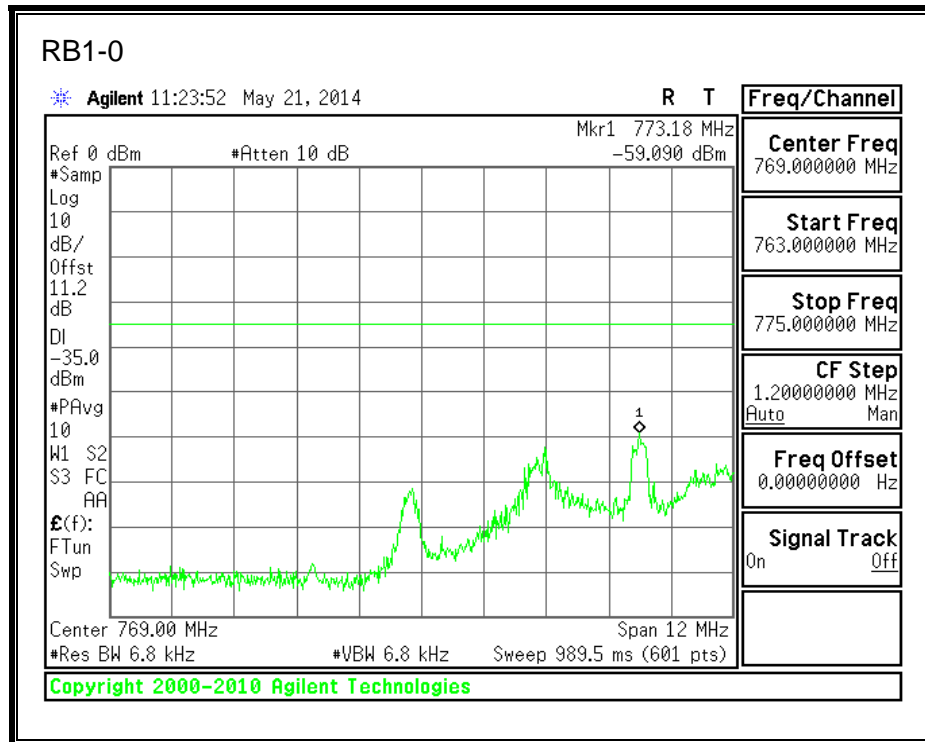


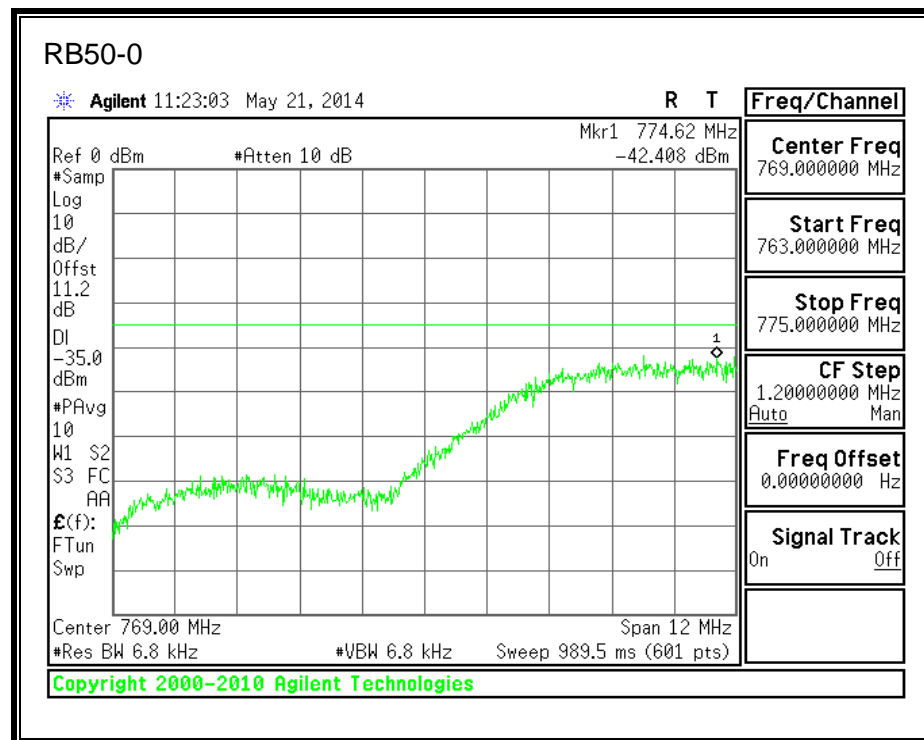
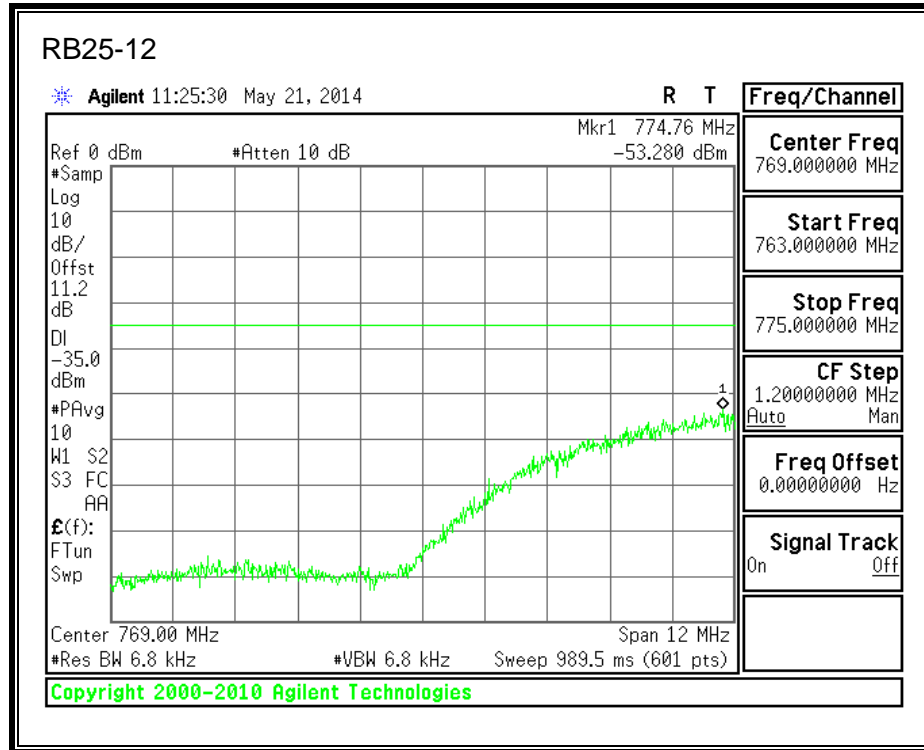
QPSK, 782MHz, 763 - 775MHz, (10MHz Bandwidth)



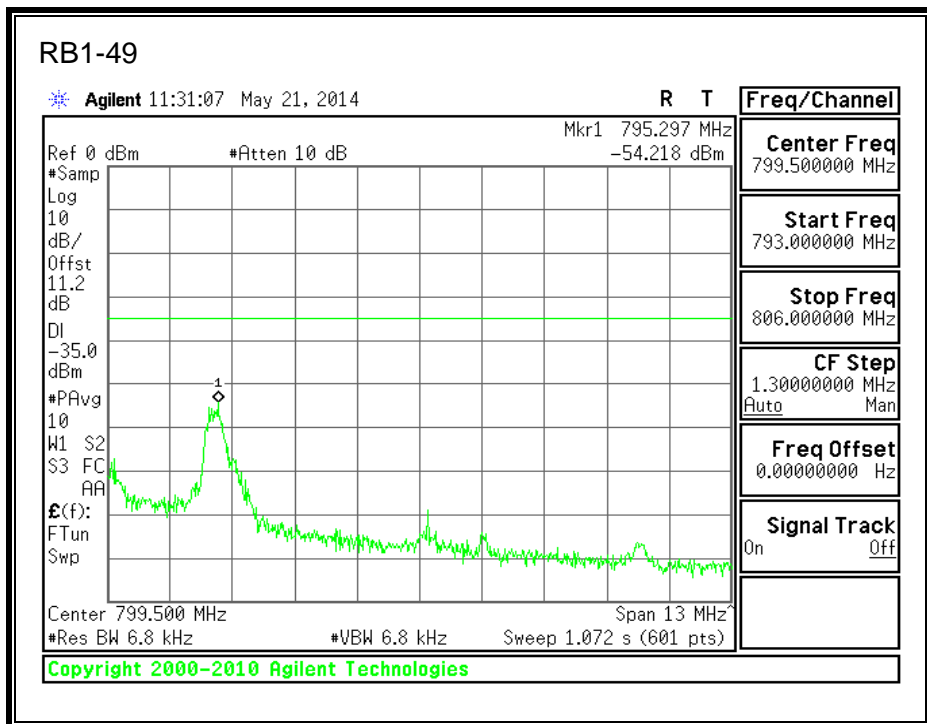
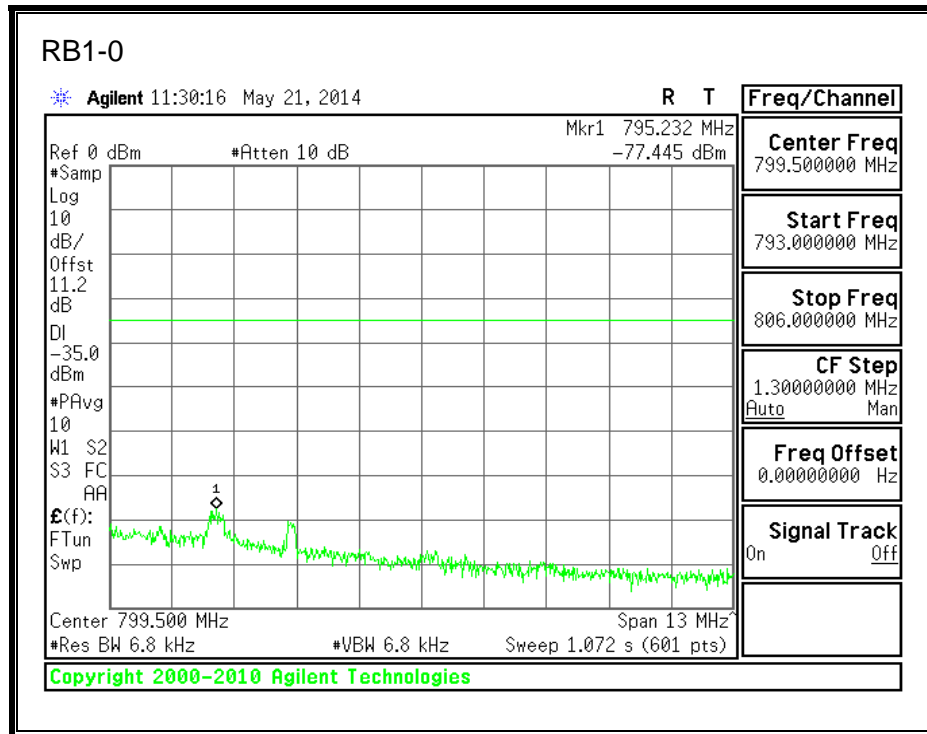


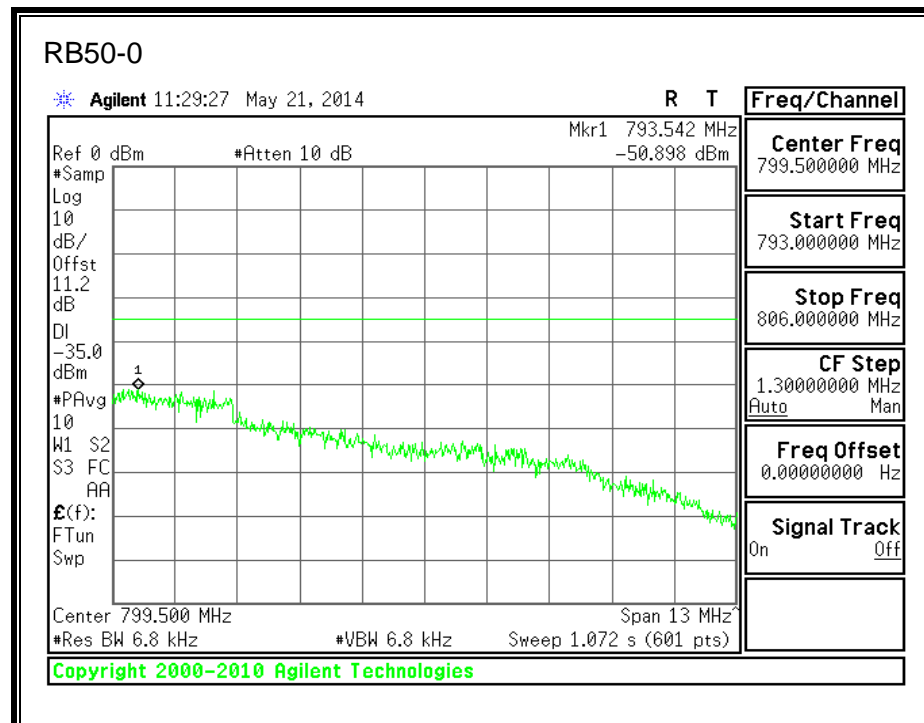
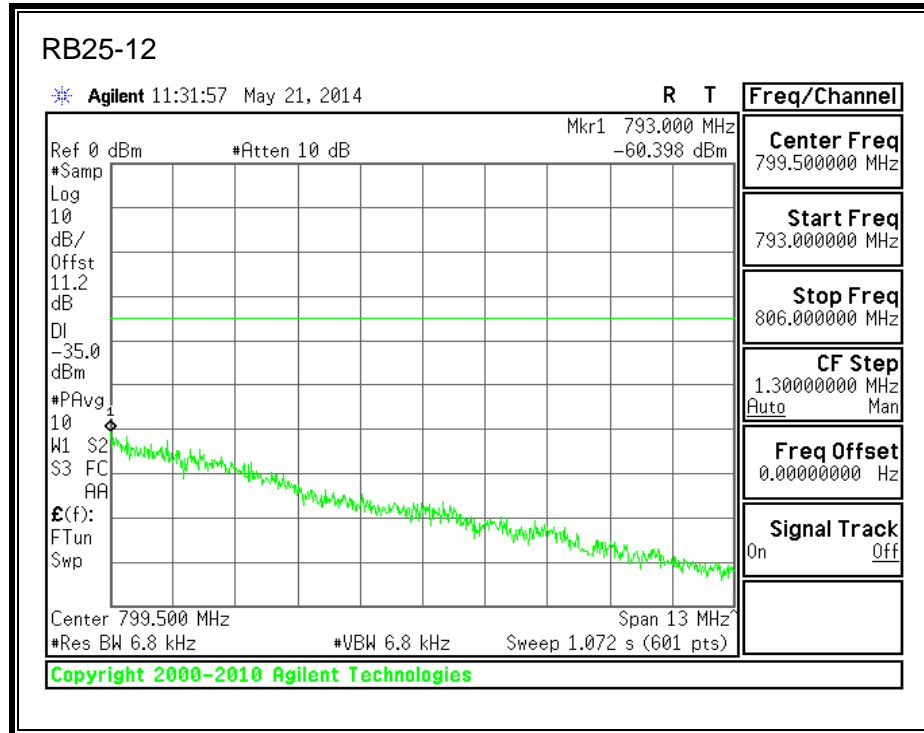
16QAM, 782MHz, 763 - 775MHz, (10MHz Bandwidth)



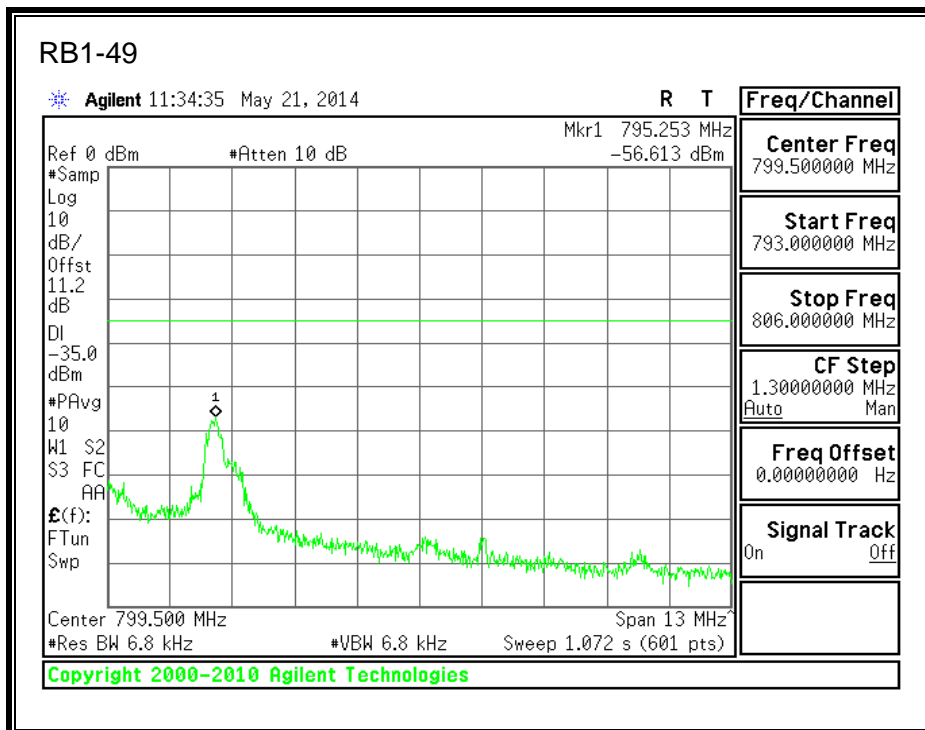
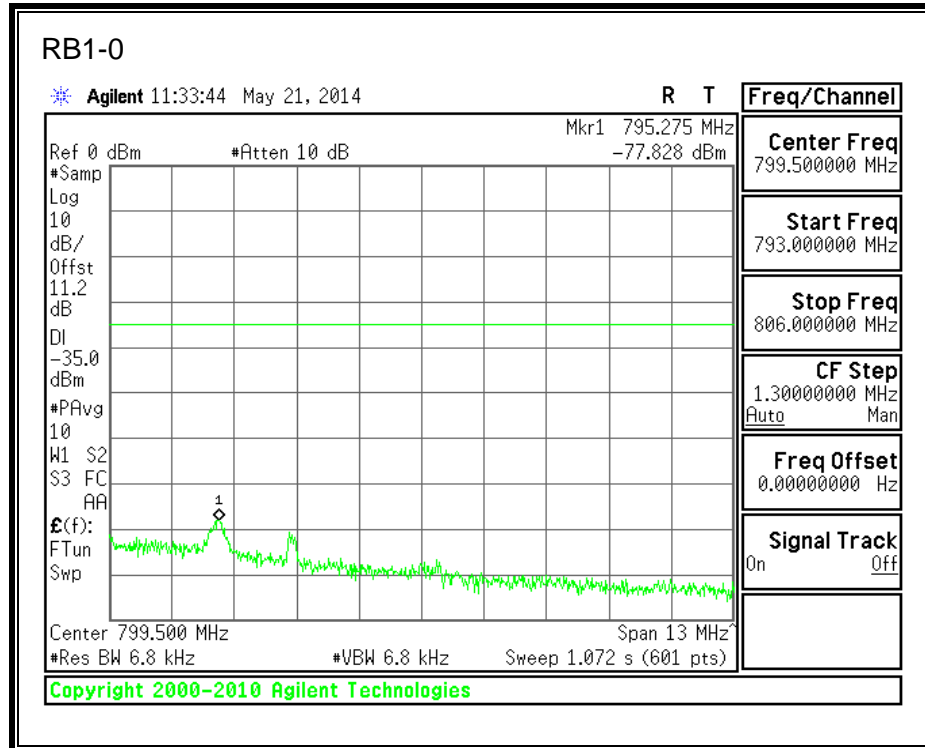


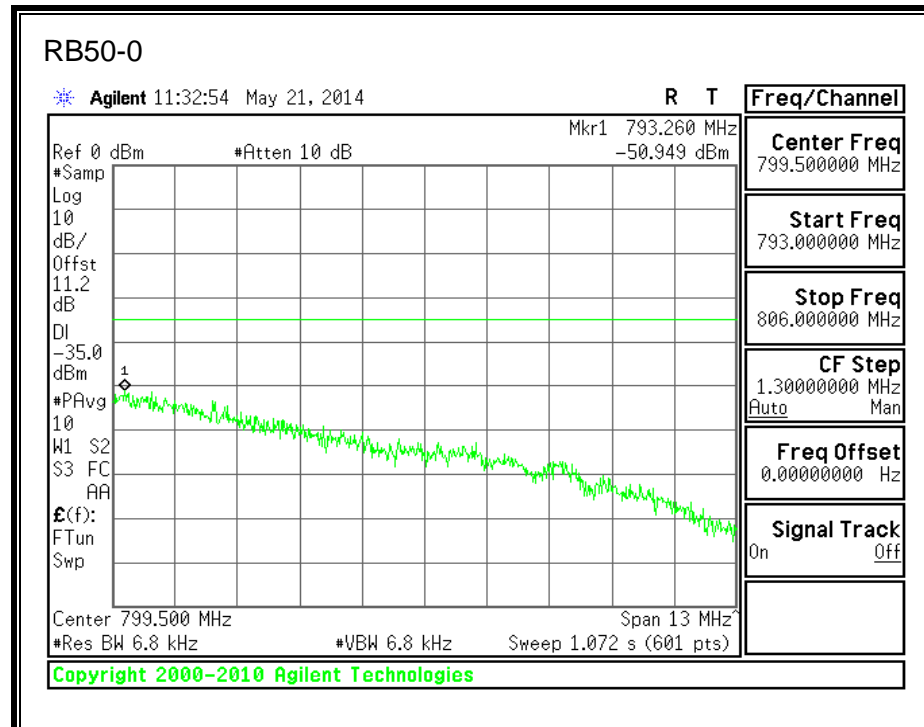
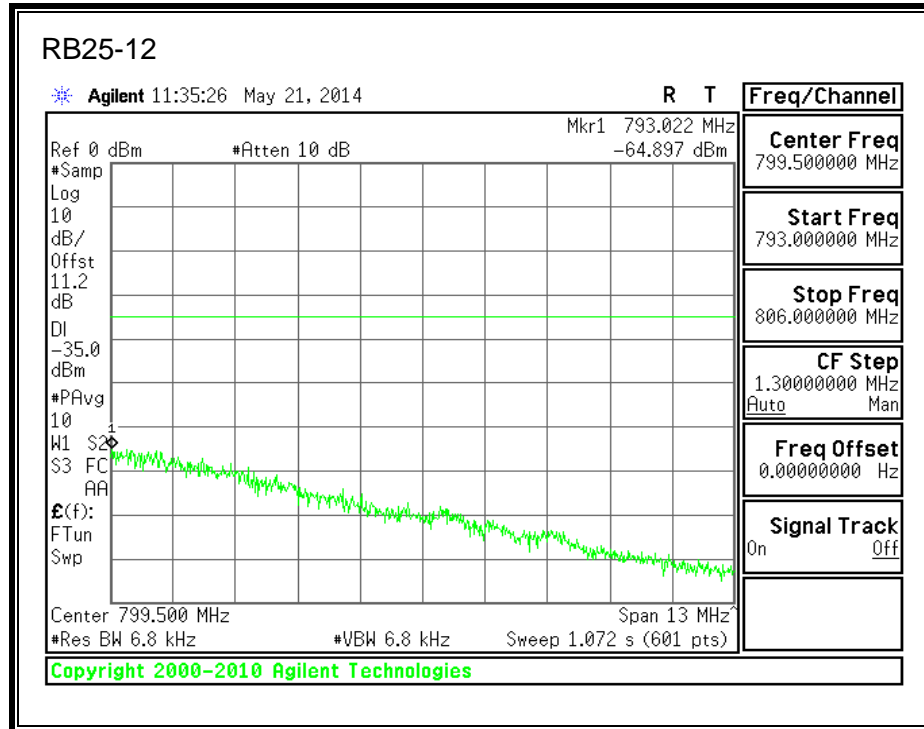
QPSK, 782MHz, 793 - 806MHz, (10MHz Bandwidth)





16QAM, 782MHz, 793 - 806MHz, (10MHz Bandwidth)

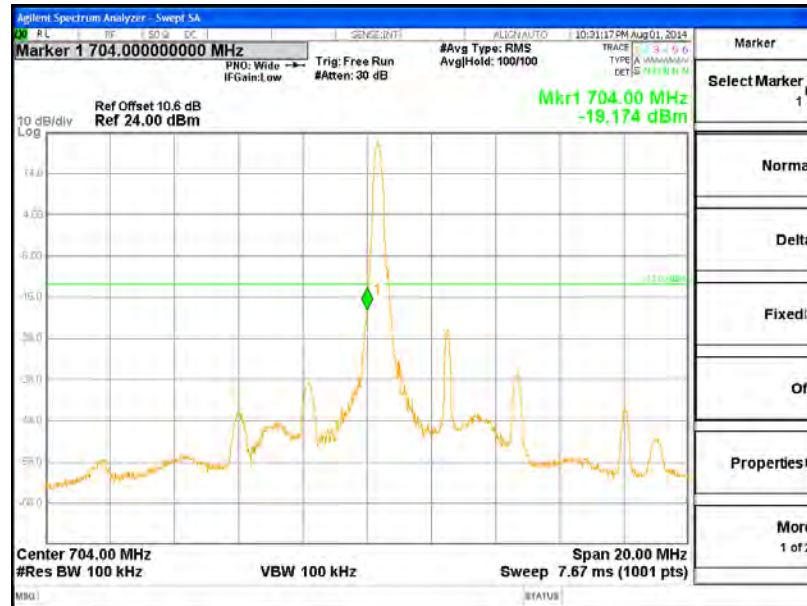




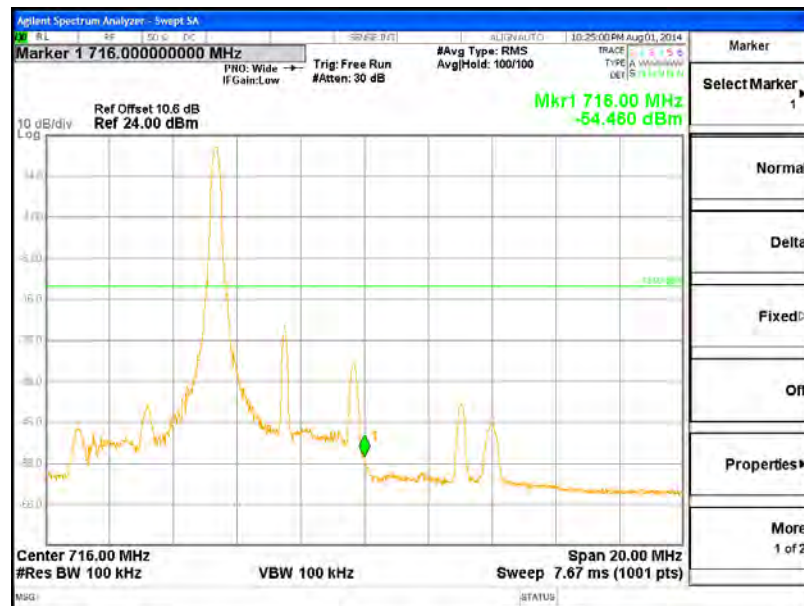
8.2.5. LTE BAND 17 BANDEDGE

QPSK, (5.0 MHz BAND WIDTH)

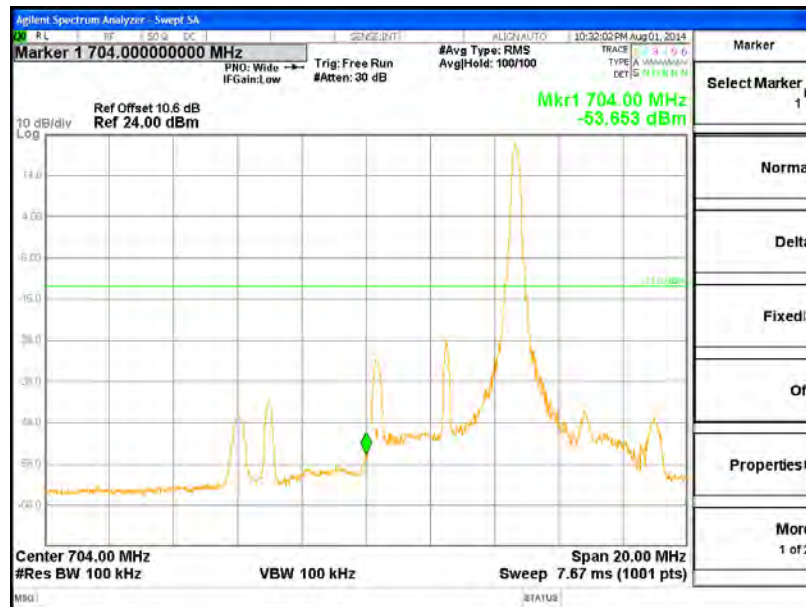
LOW CH, RB1_0



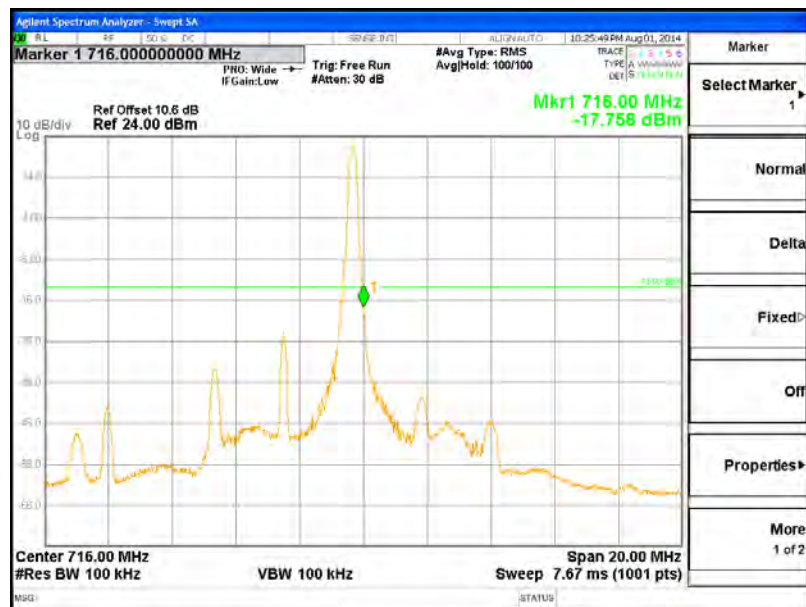
HIGH CH, RB1-0



LOW CH, RB1-24



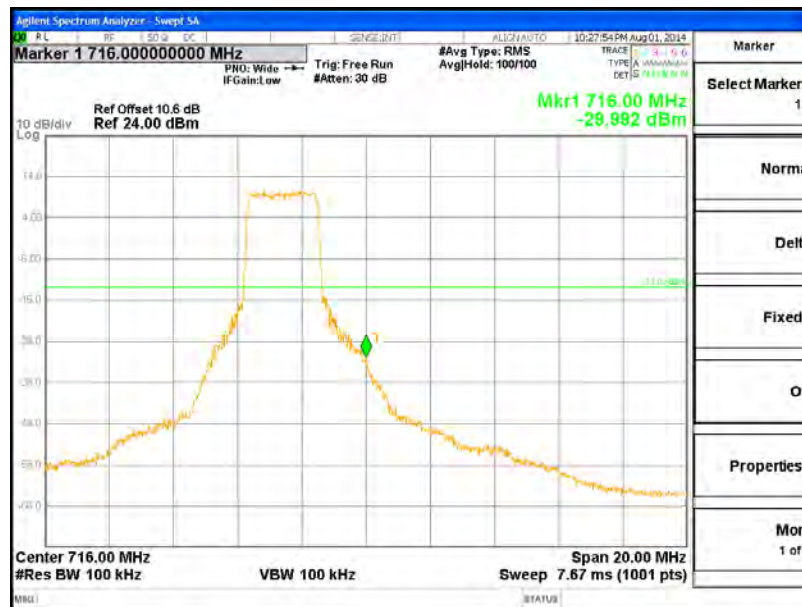
HIGH CH, RB1-24



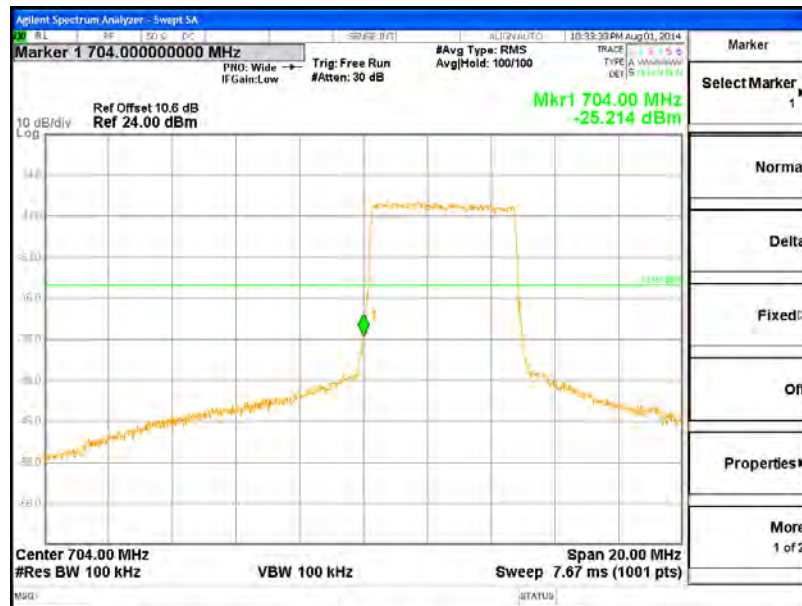
LOW CH, RB12-6



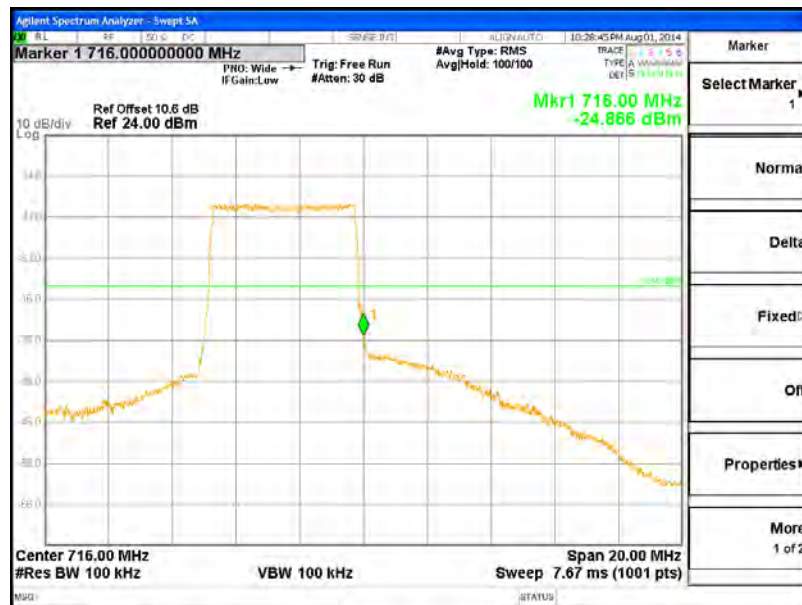
HIGH CH, RB12-6



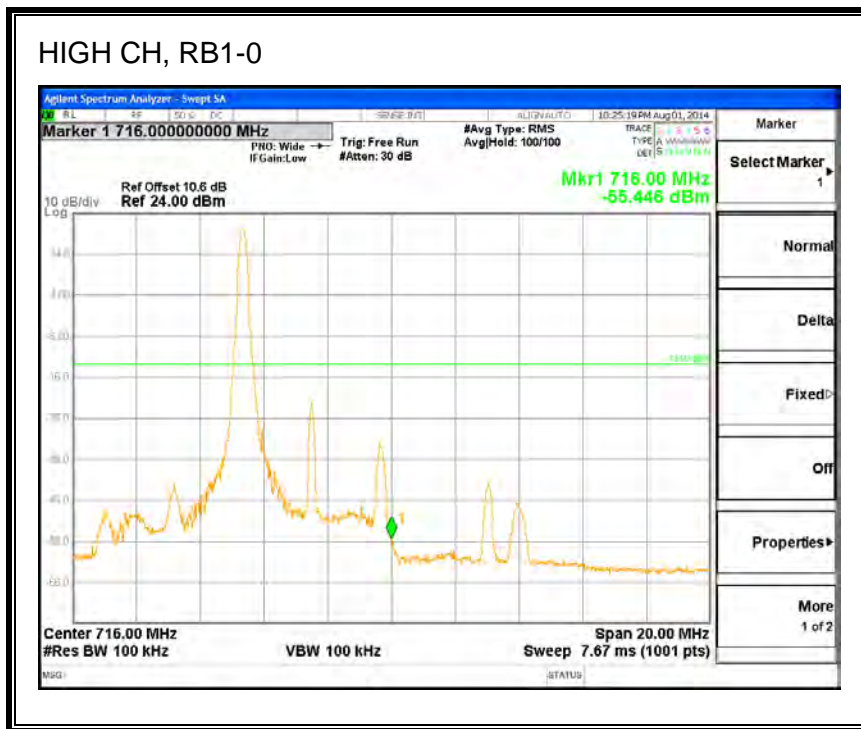
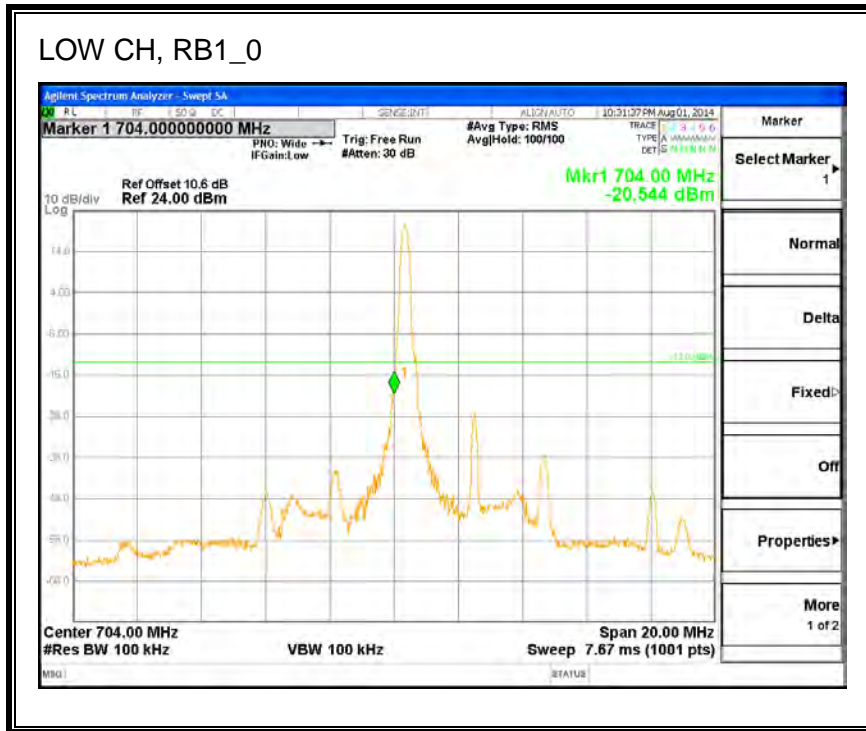
LOW CH, RB25-0



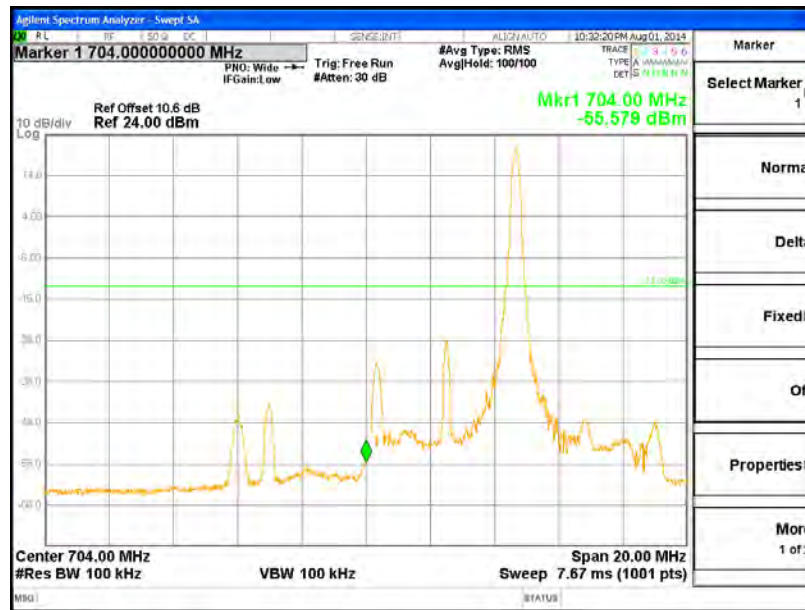
HIGH CH, RB25-0



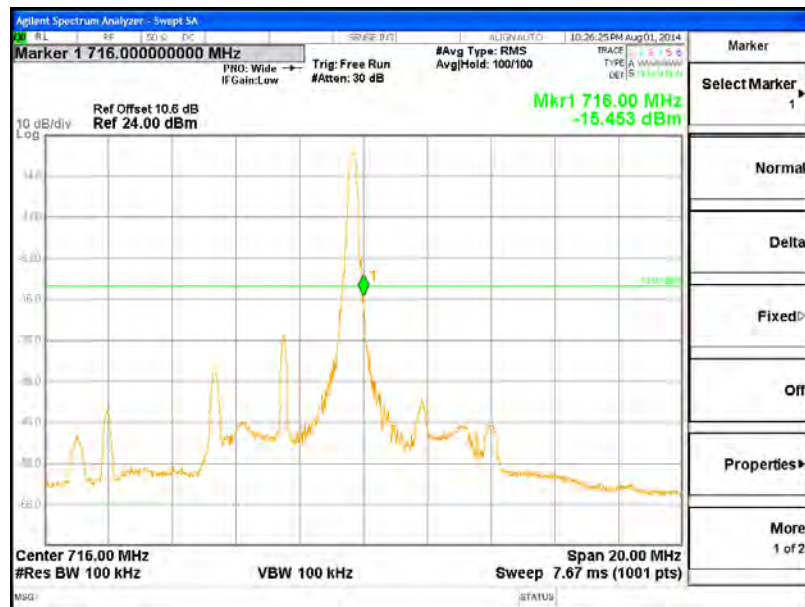
16QAM, (5.0 MHz BAND WIDTH)



LOW CH, RB1-24



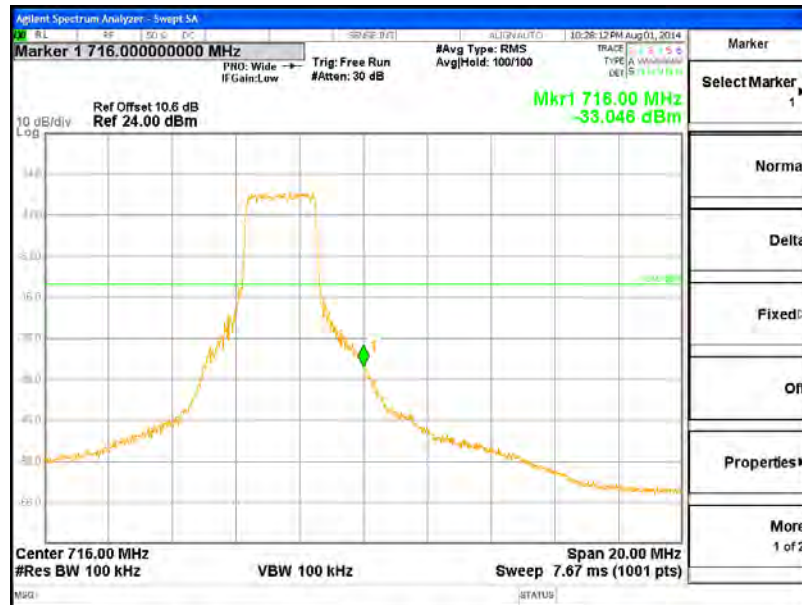
HIGH CH, RB1-24



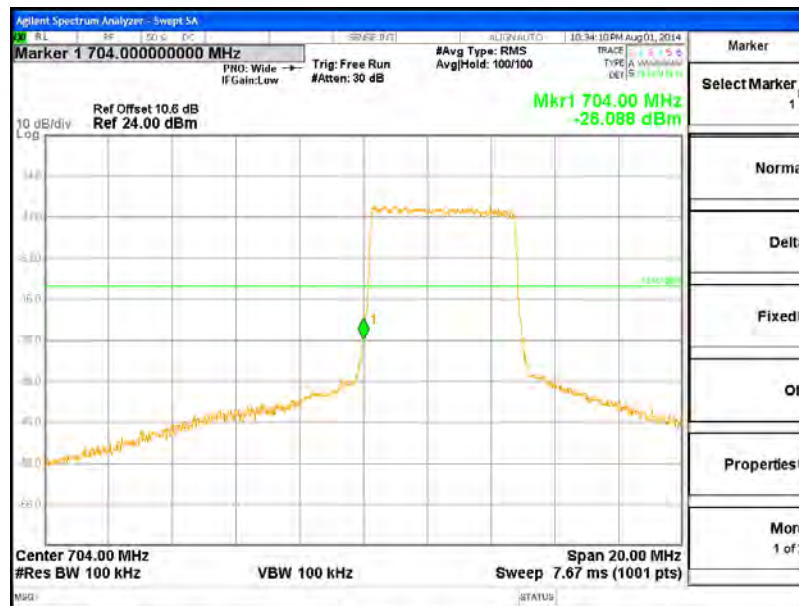
LOW CH, RB12-6



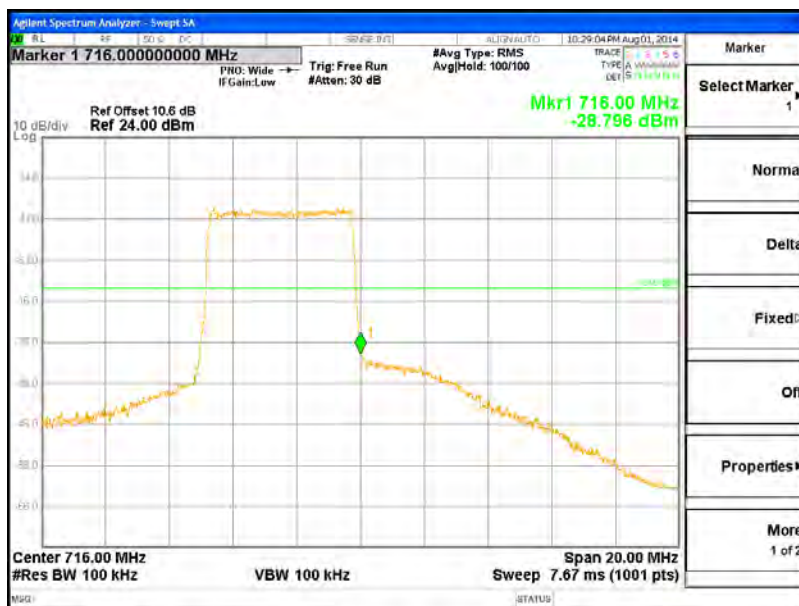
HIGH CH, RB12-6



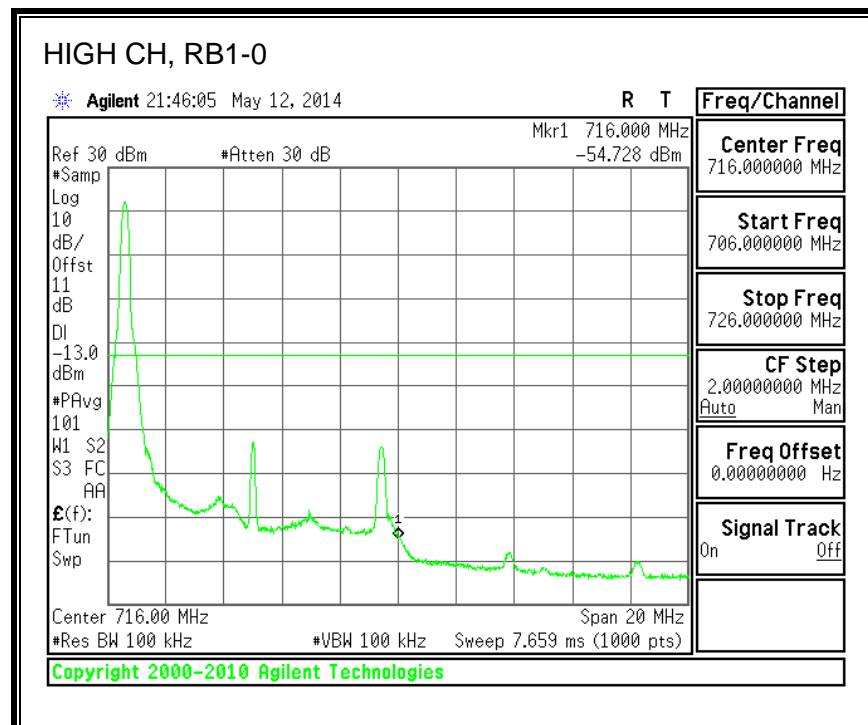
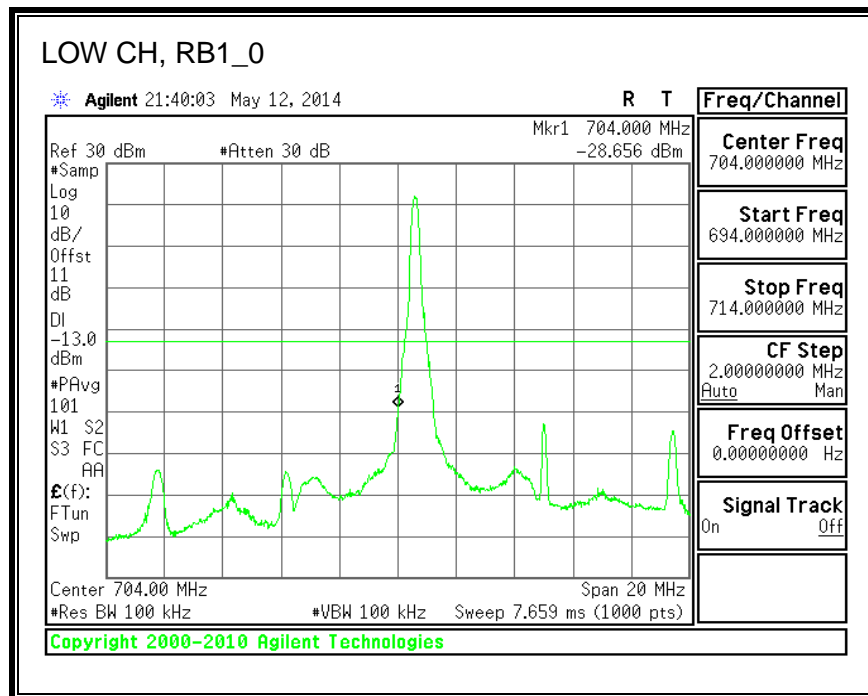
LOW CH, RB25-0

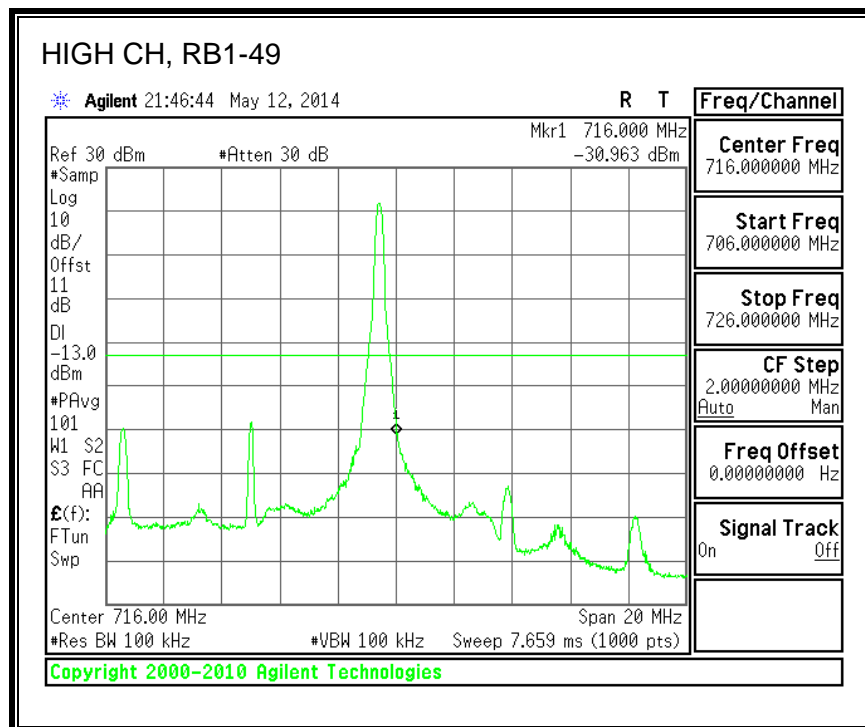
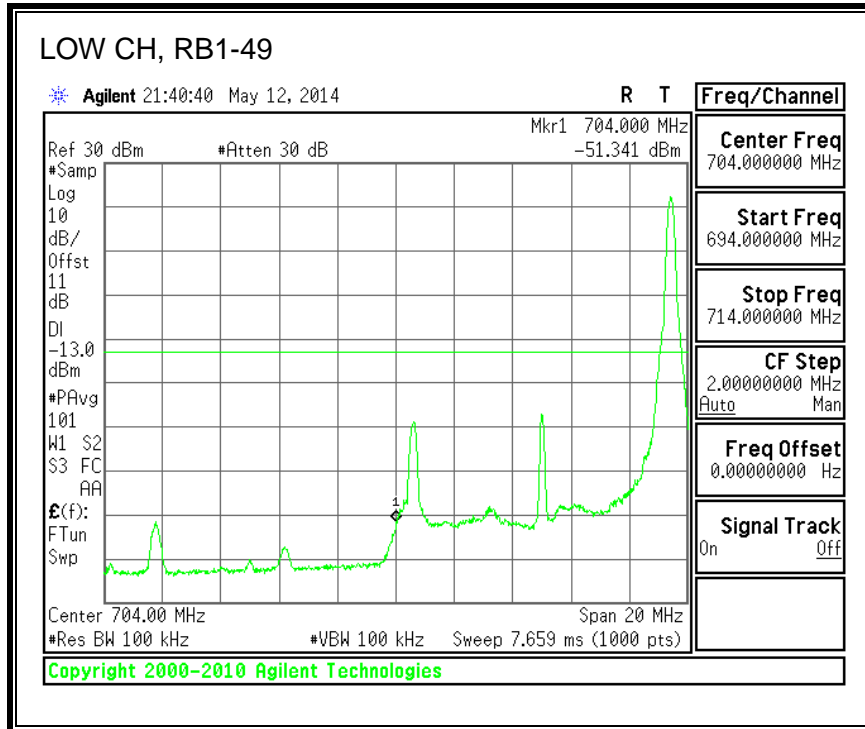


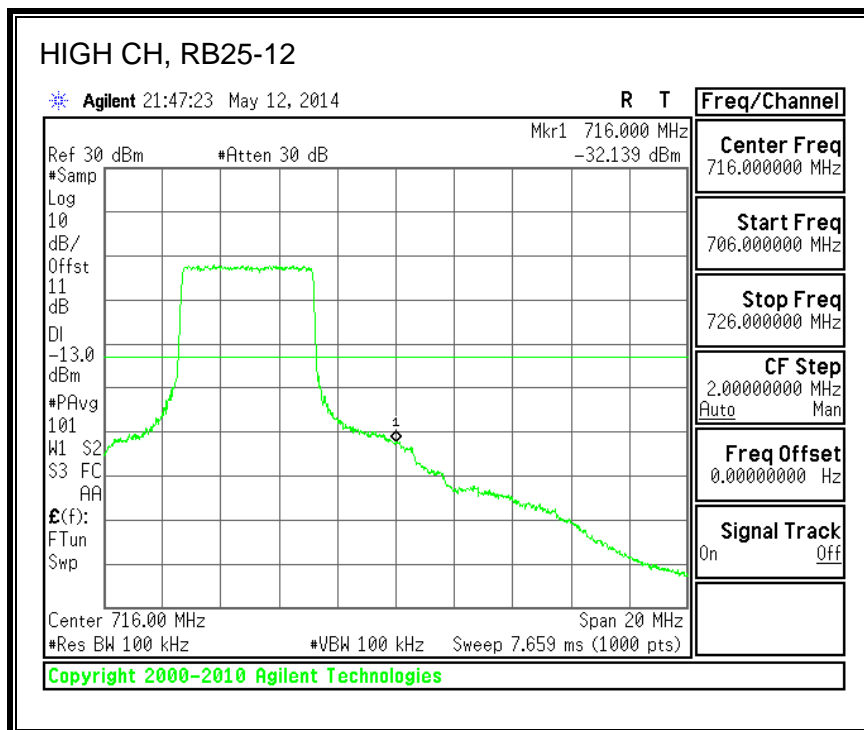
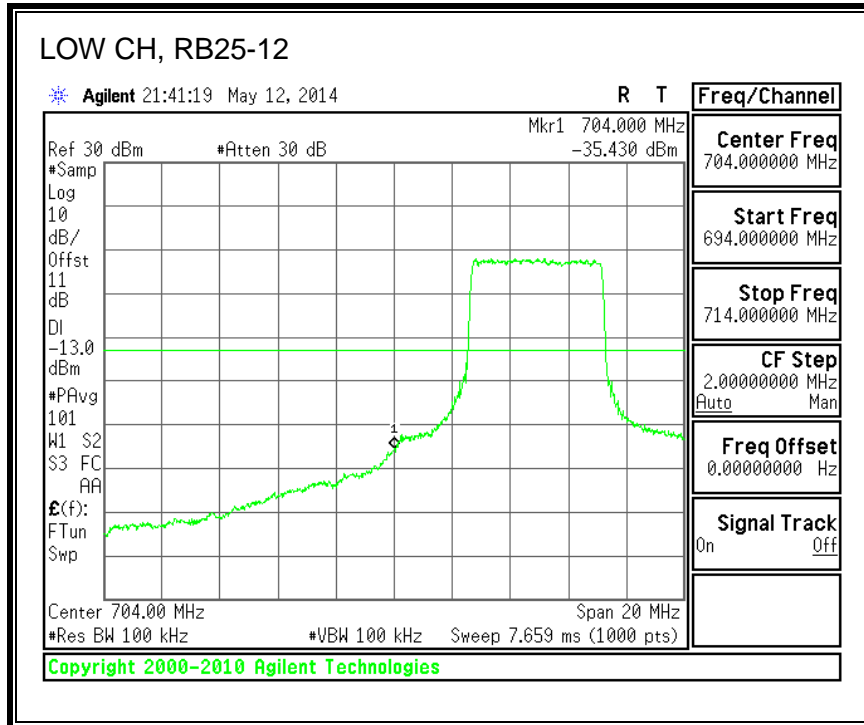
HIGH CH, RB25-0

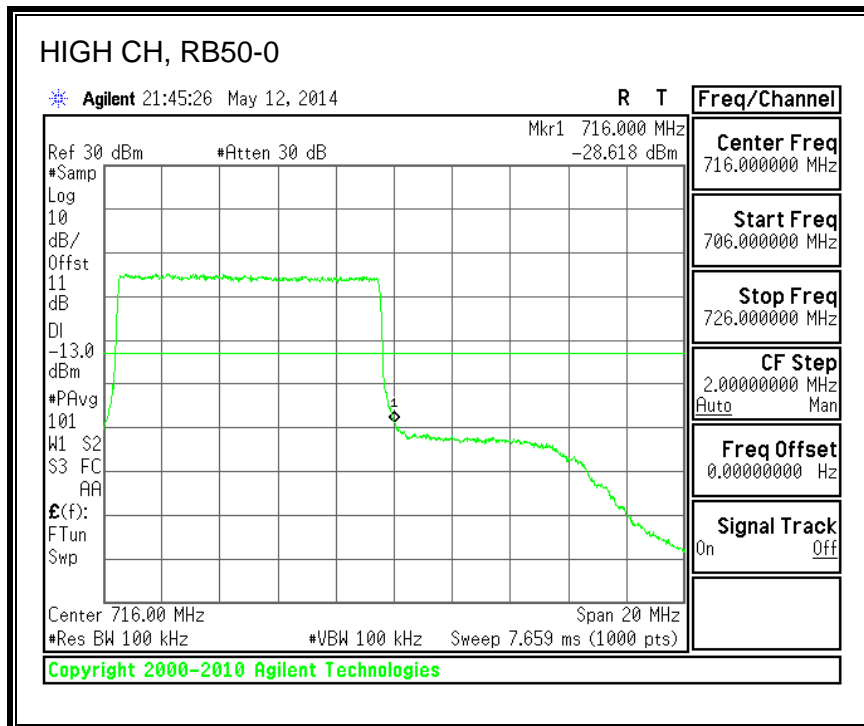
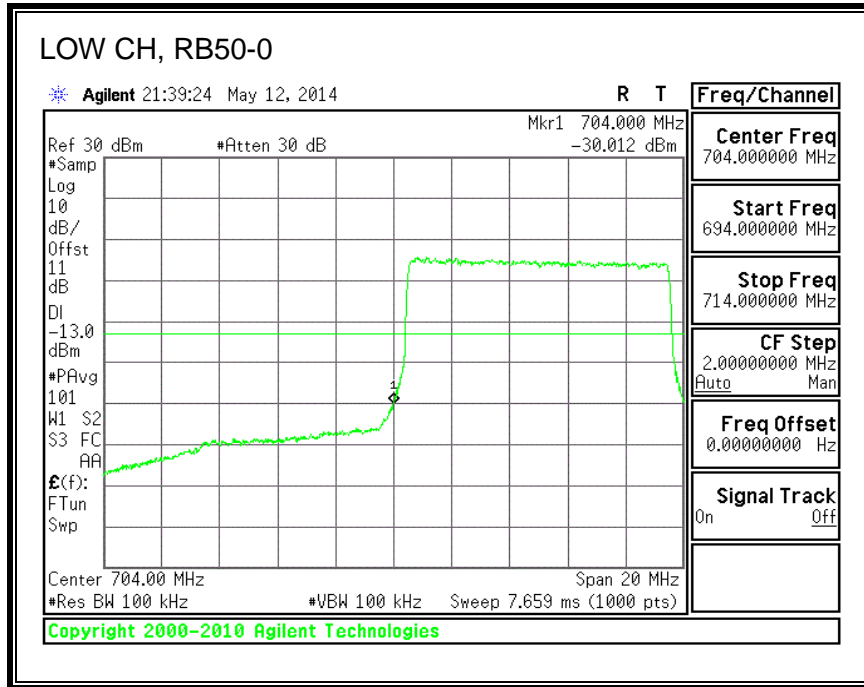


QPSK, (10.0 MHz BAND WIDTH)

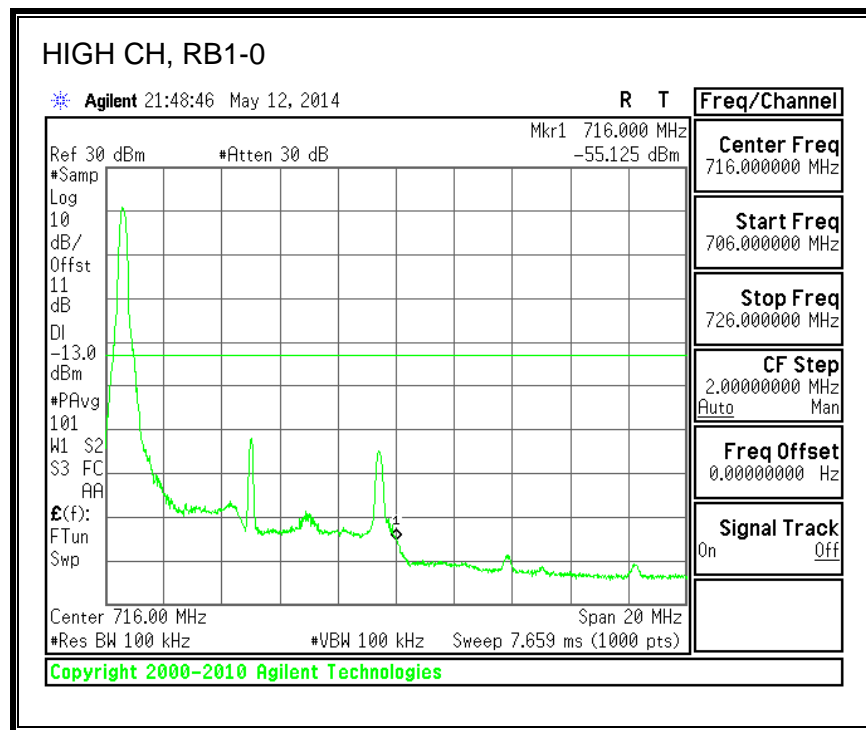
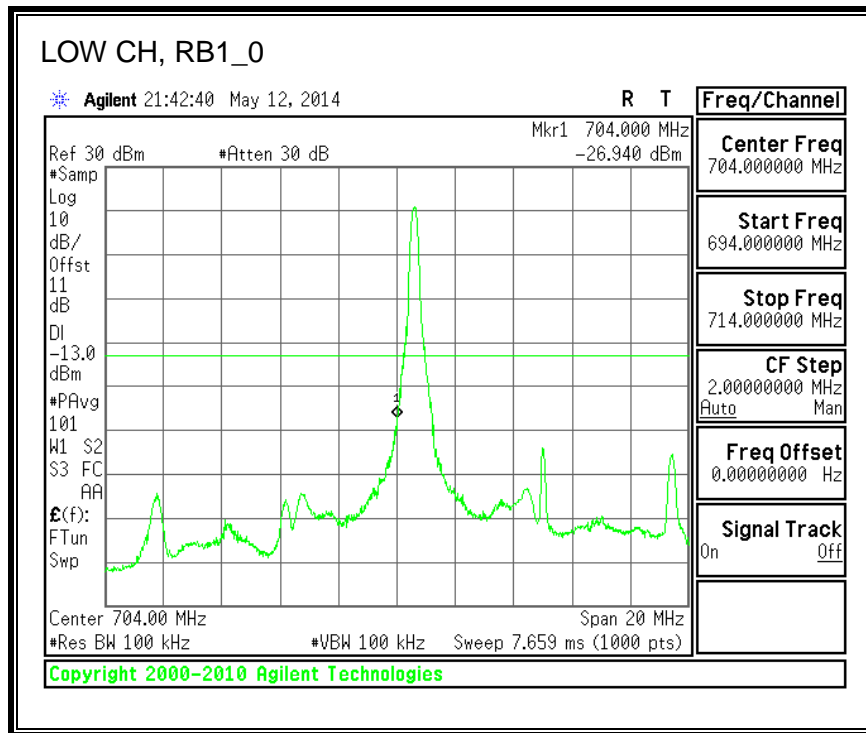


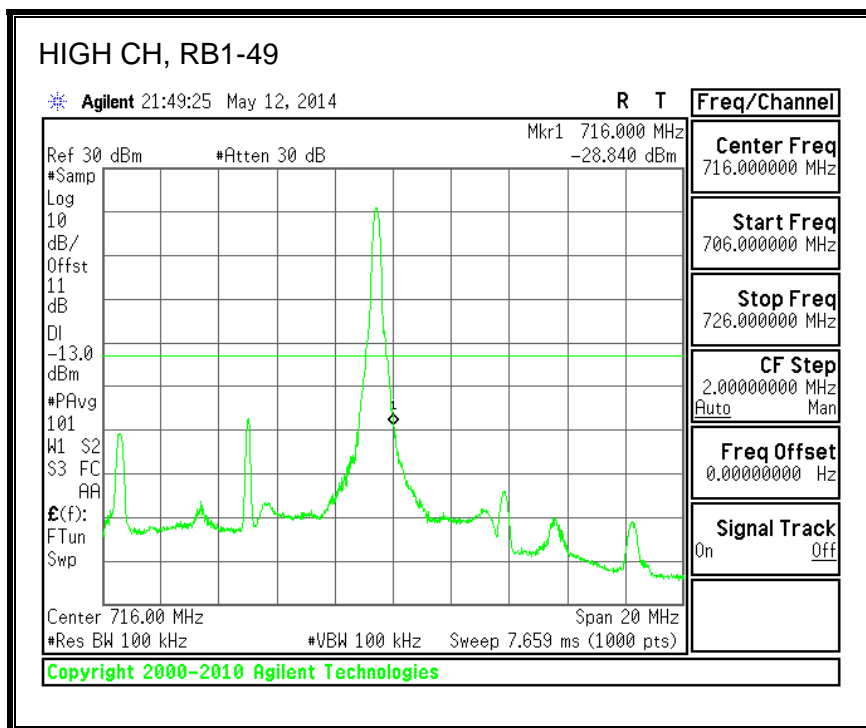
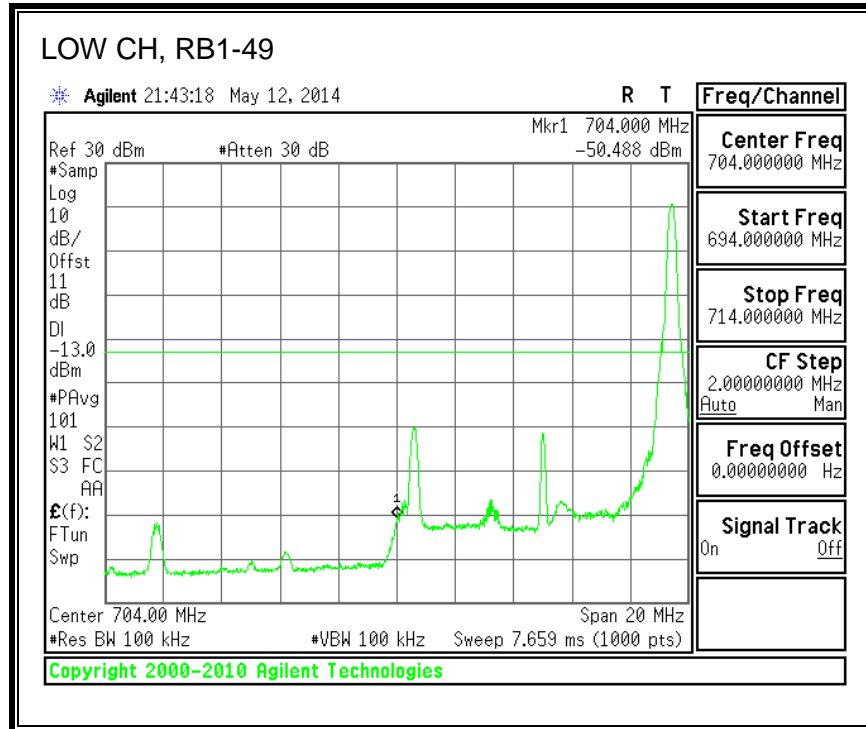


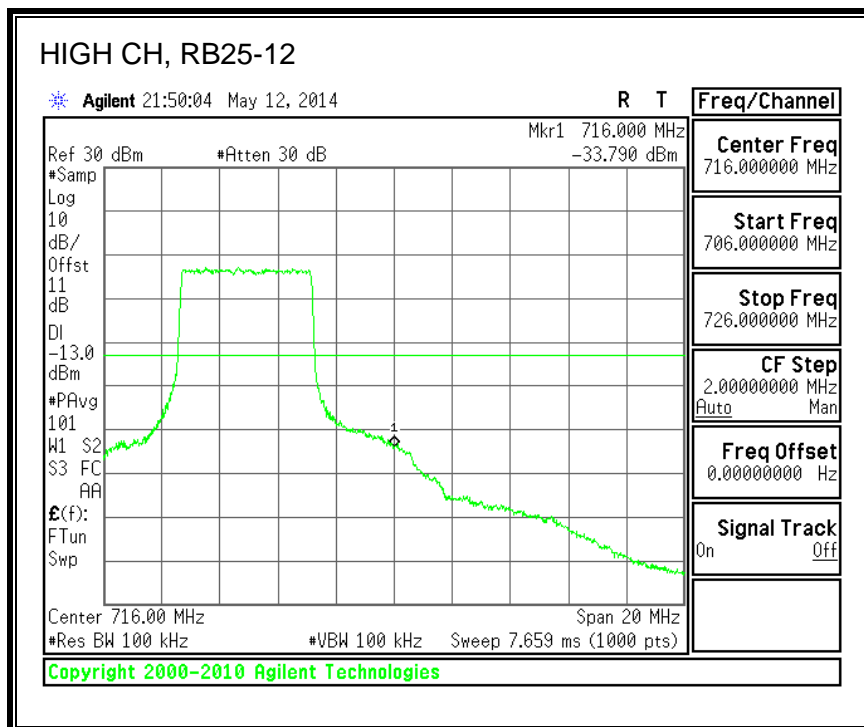
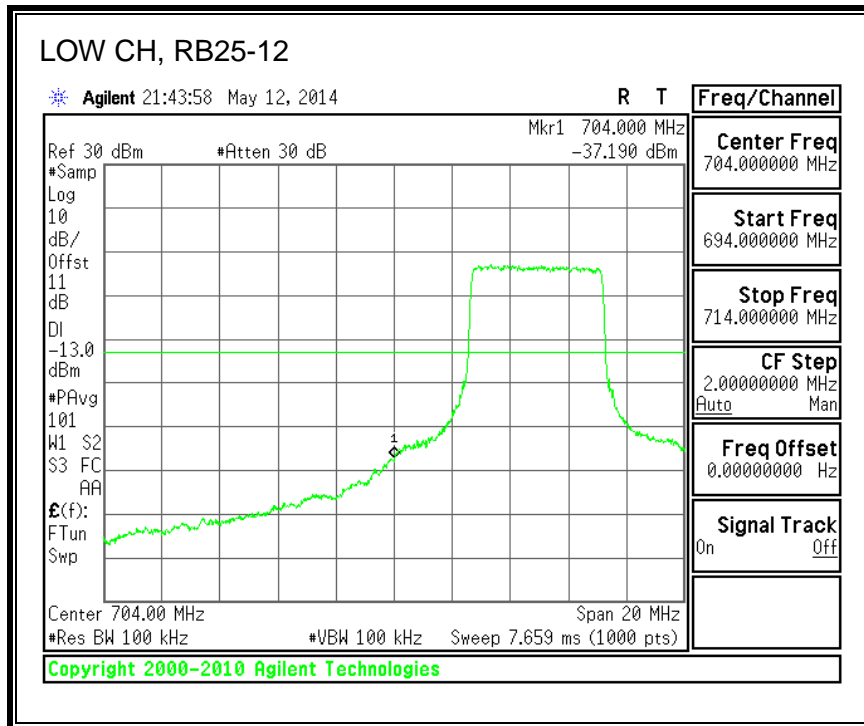


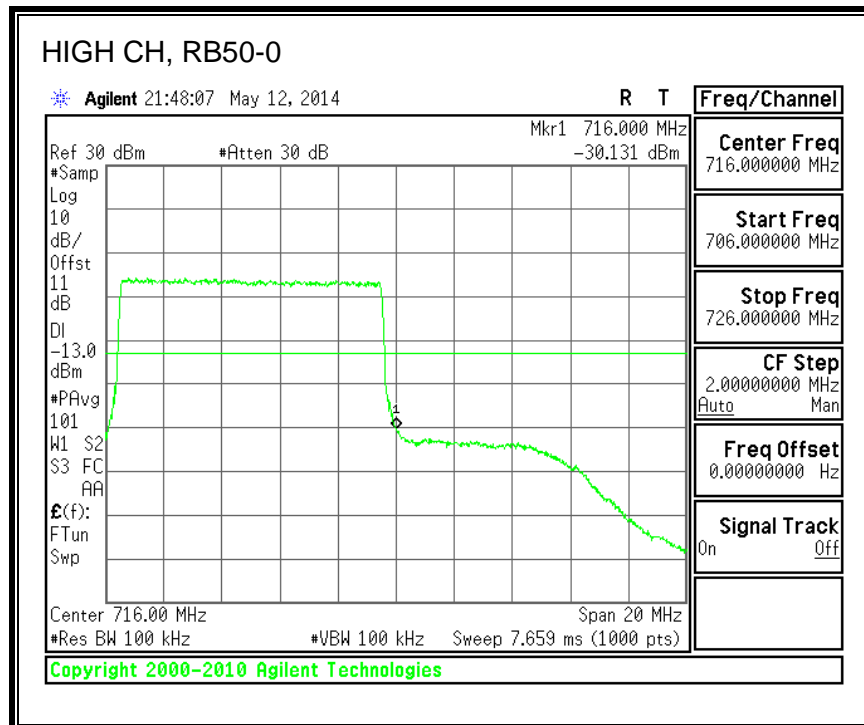
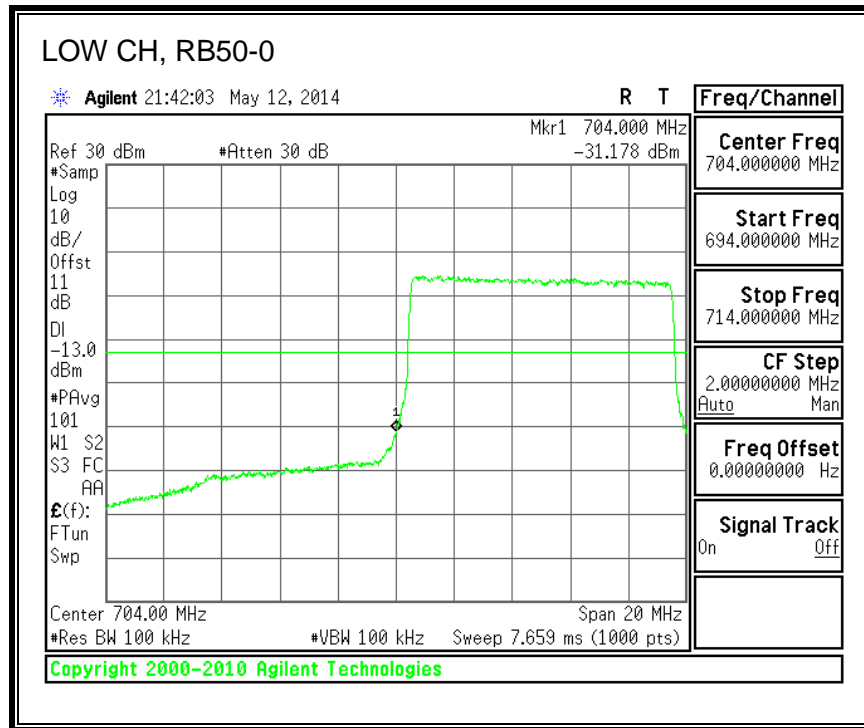


16QAM, (10.0 MHz BAND WIDTH)



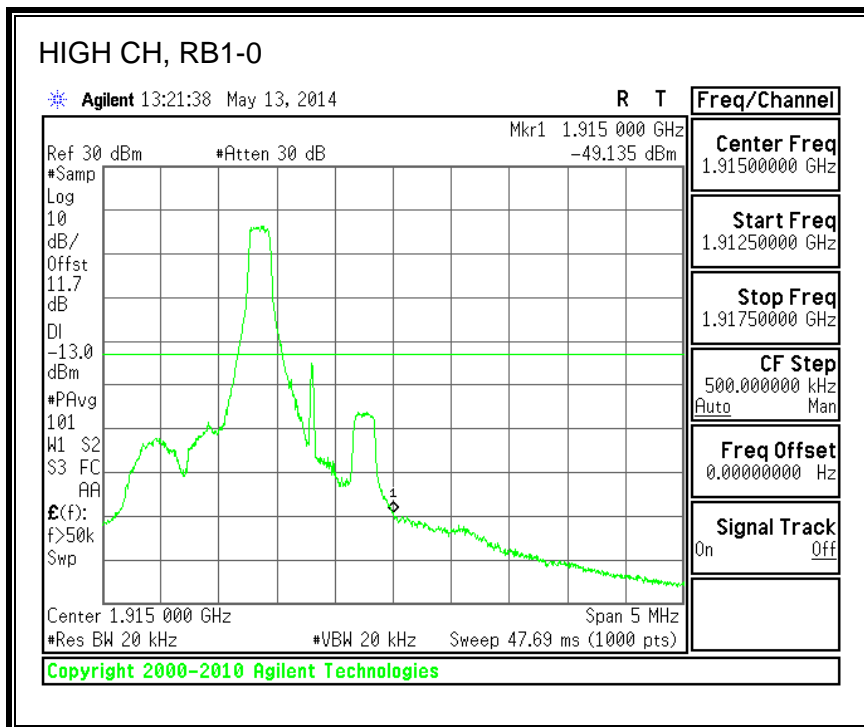
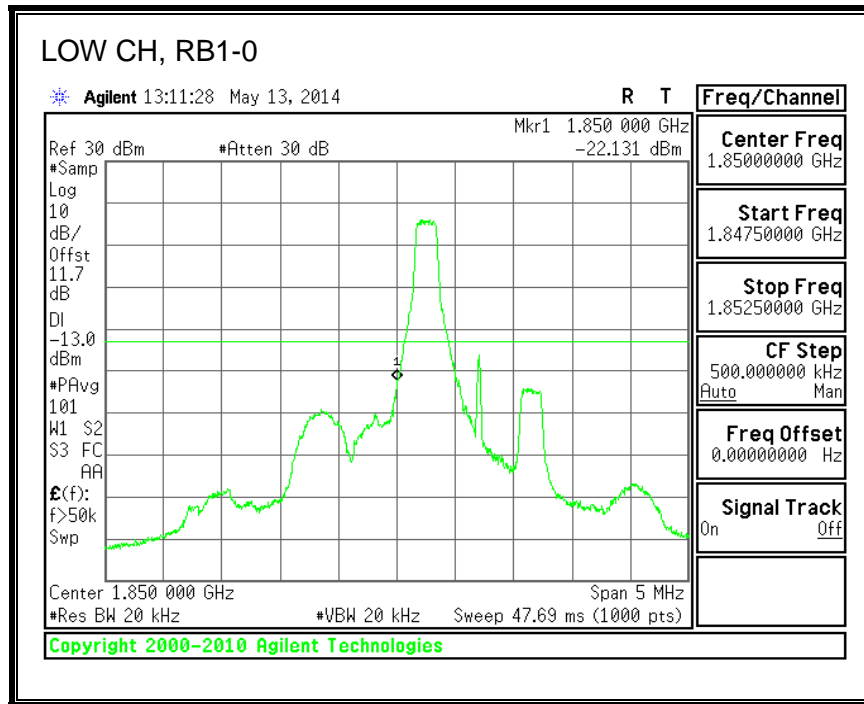


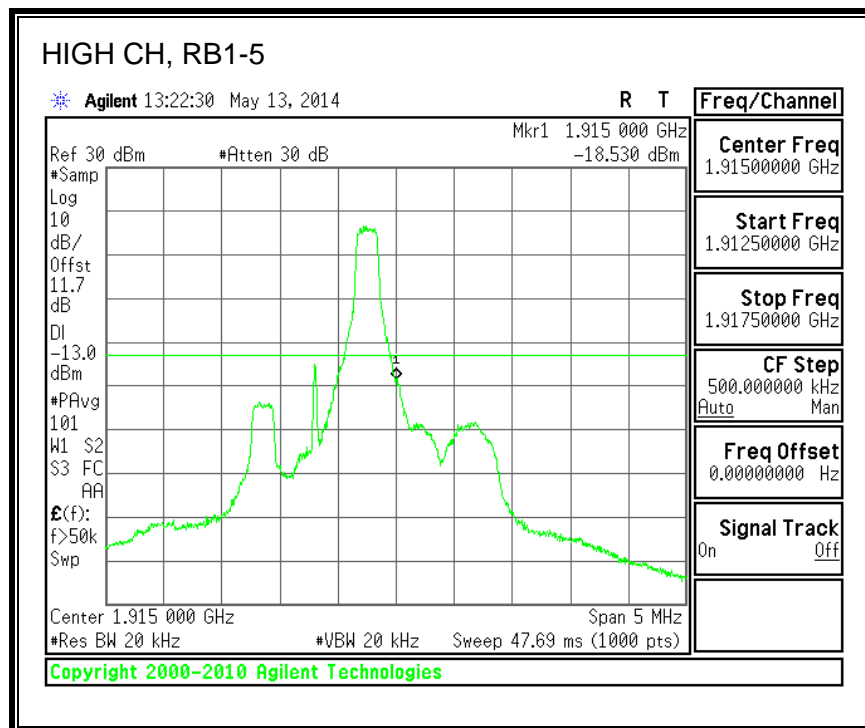
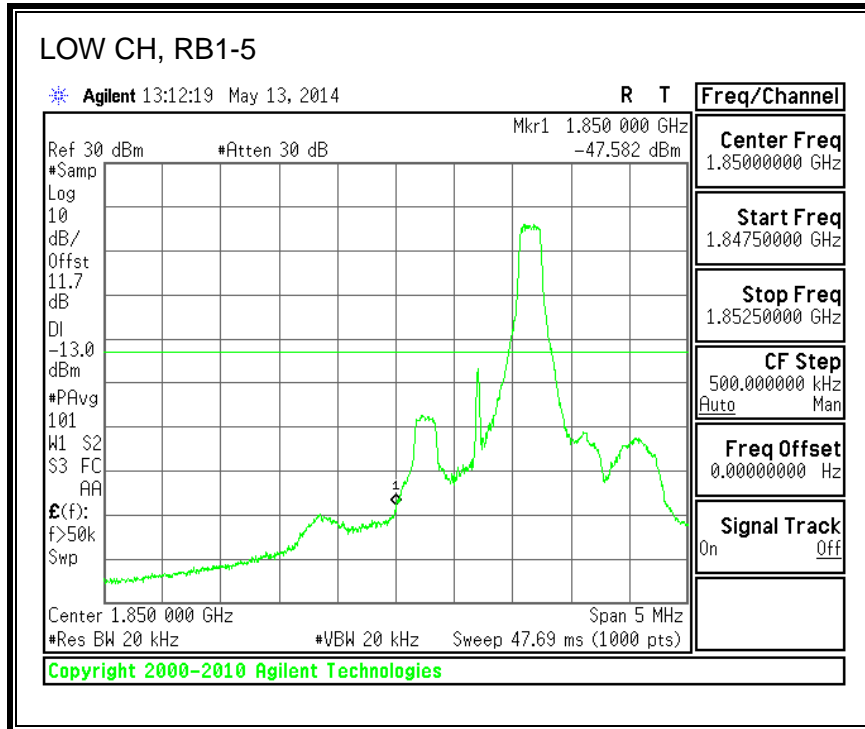


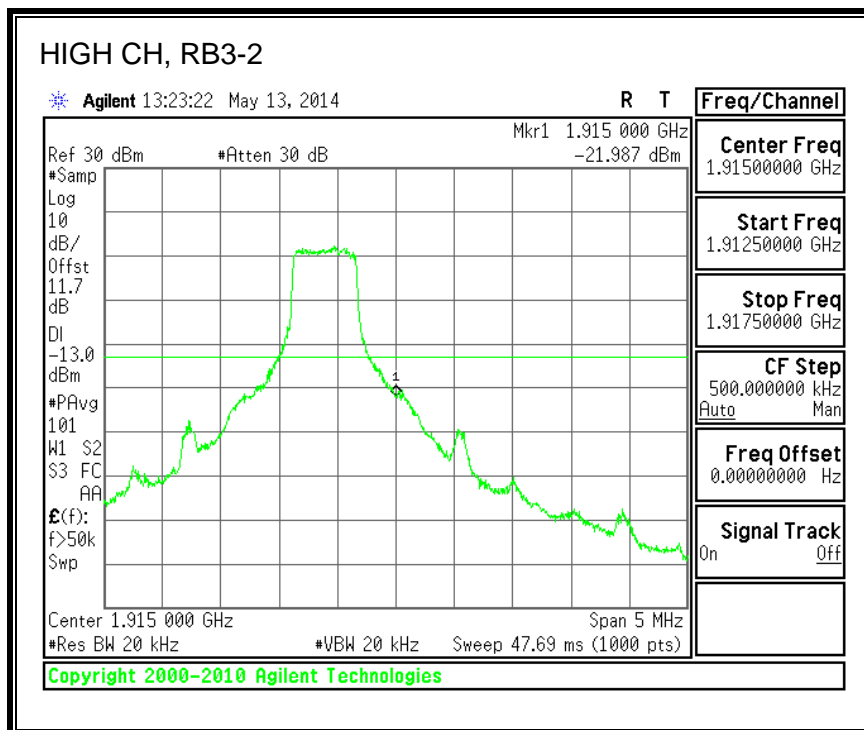
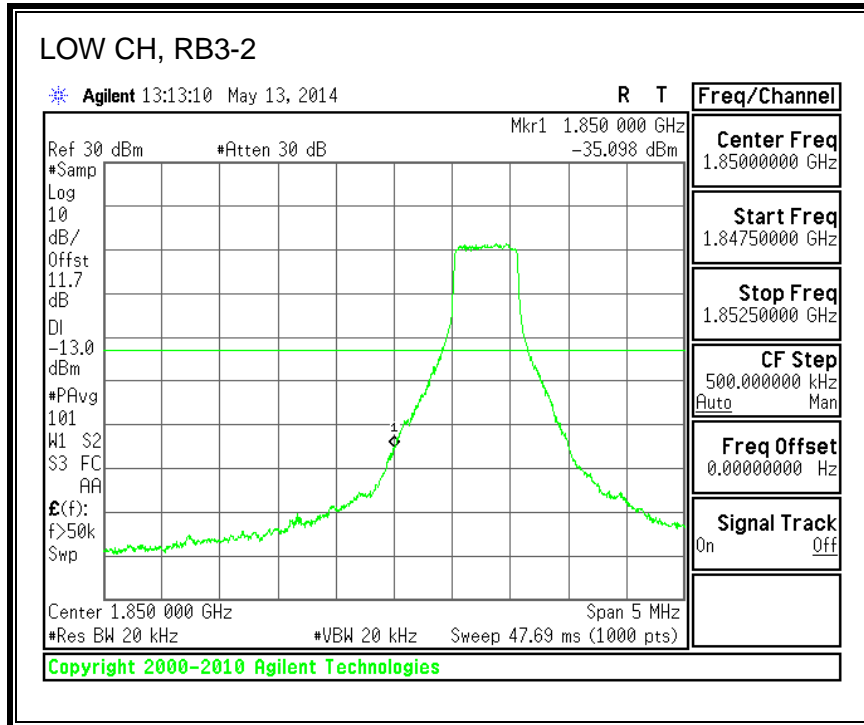


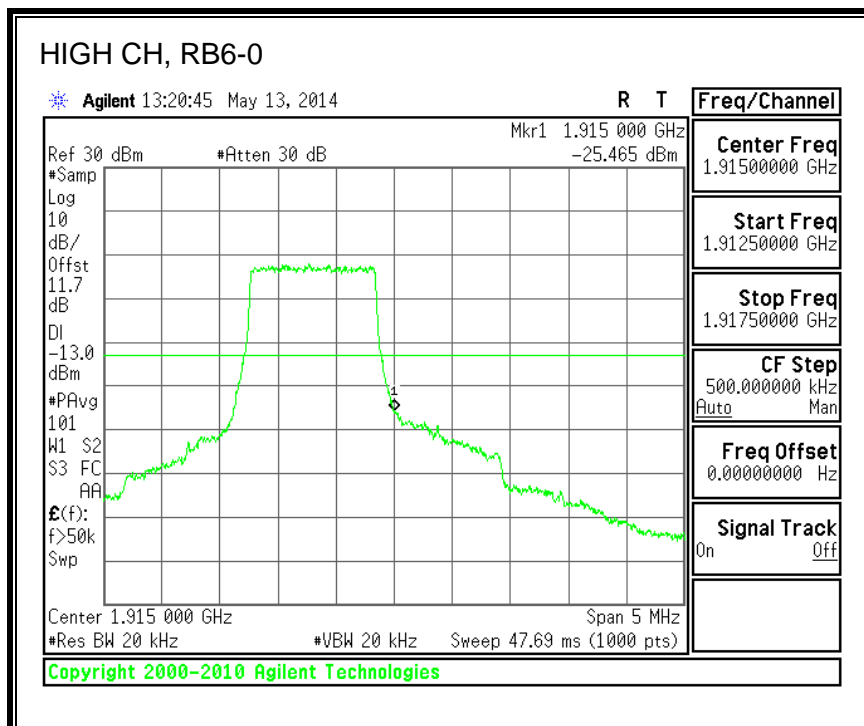
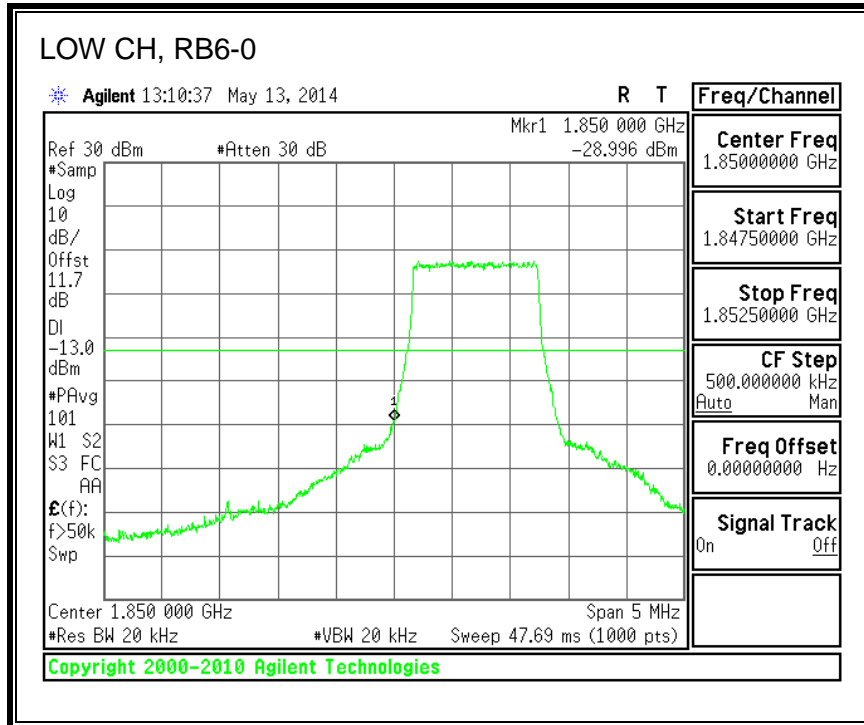
8.2.6. LTE BAND 25 BANDEDGE

QPSK, (1.4 MHz BAND WIDTH)

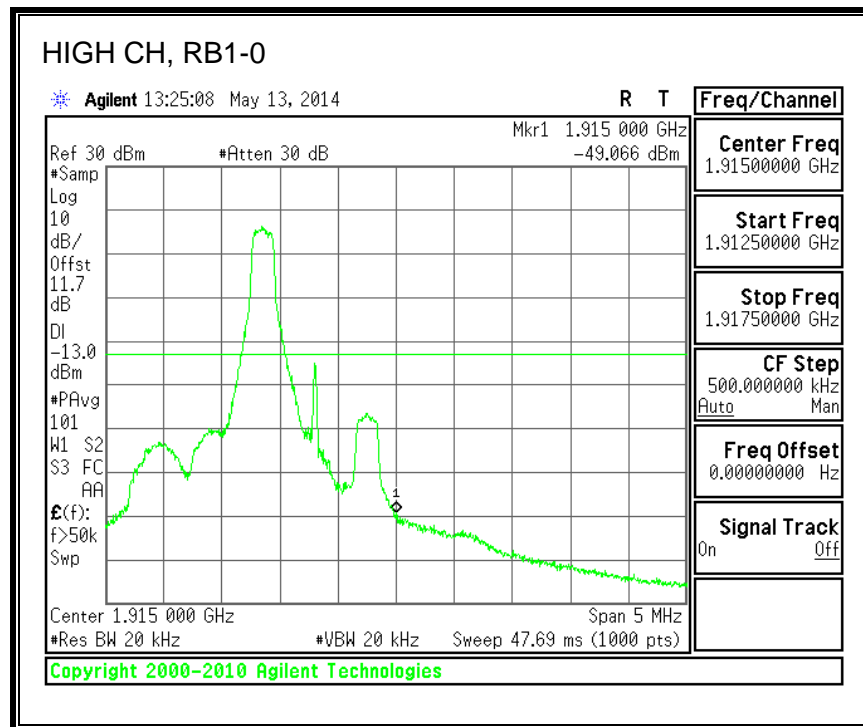
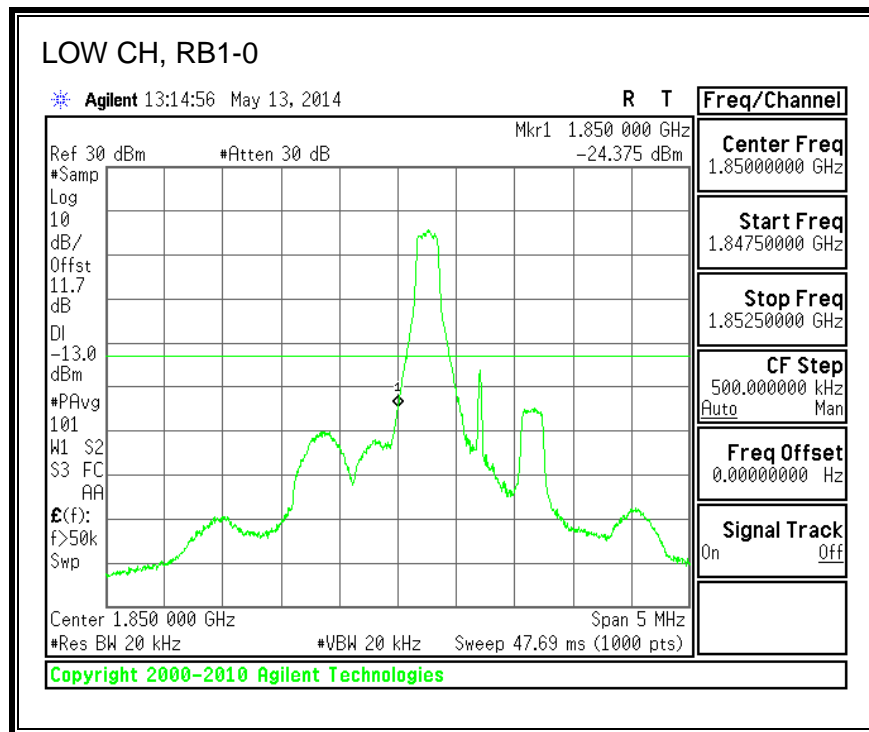


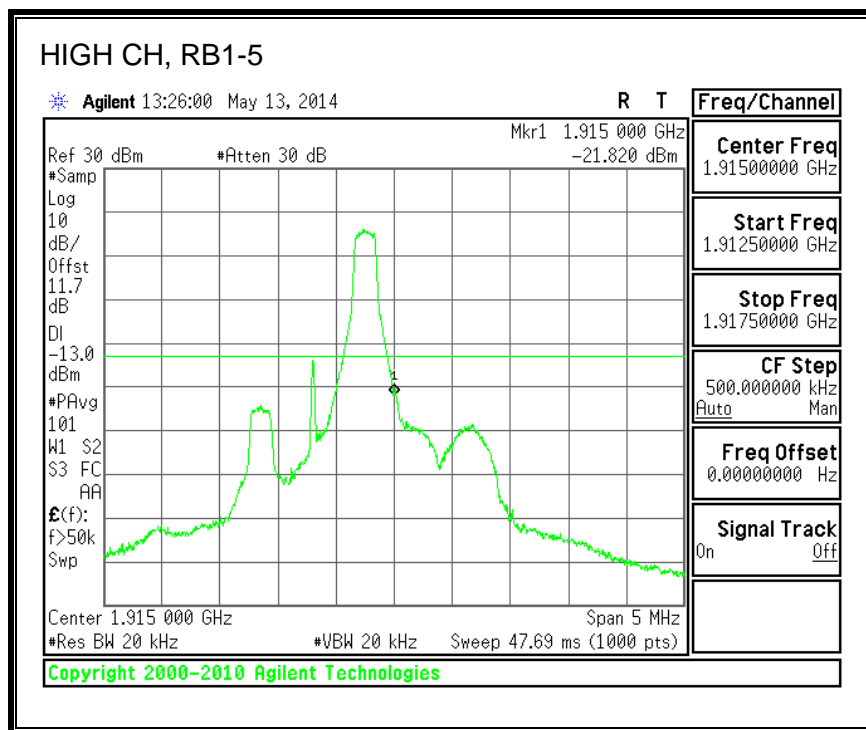
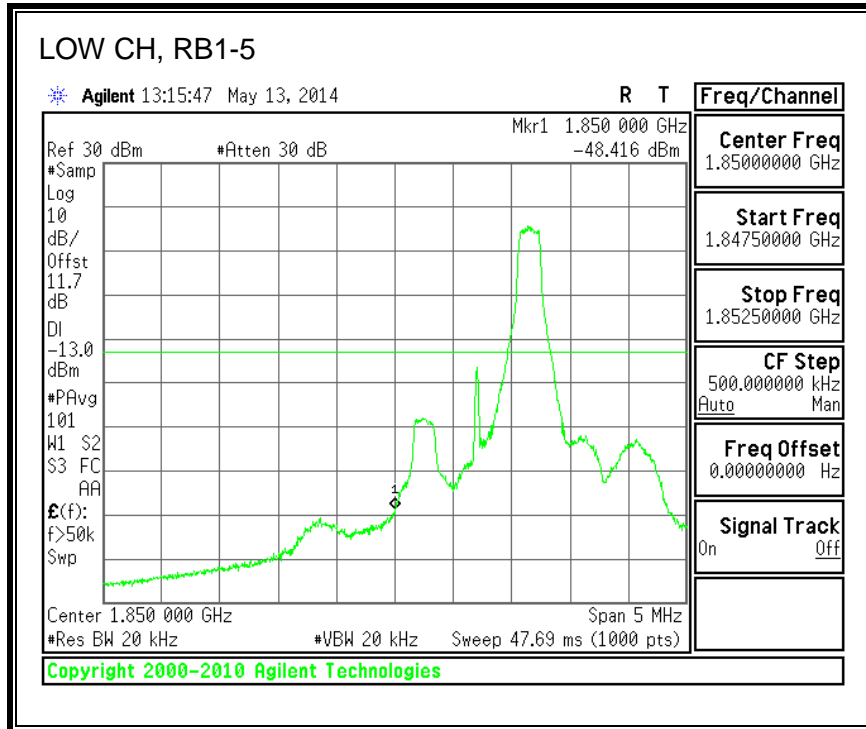


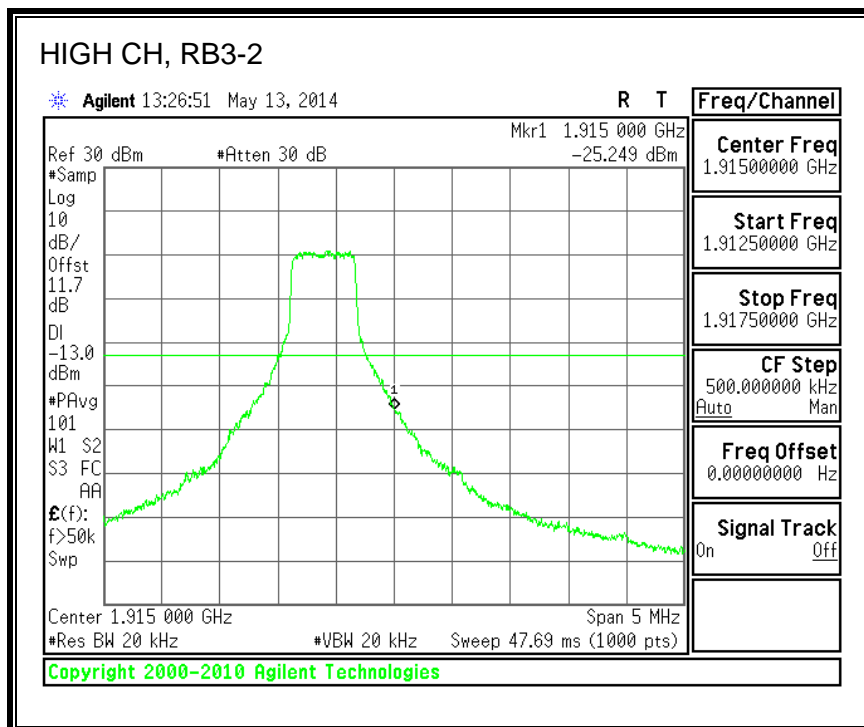
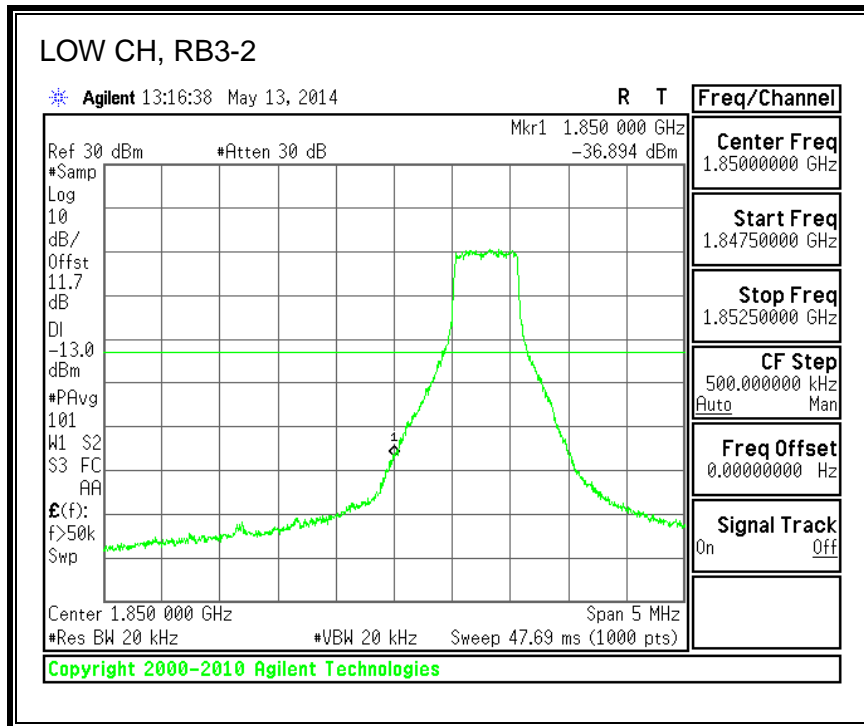




16QAM, (1.4 MHz BAND WIDTH)







LOW CH, RB6-0

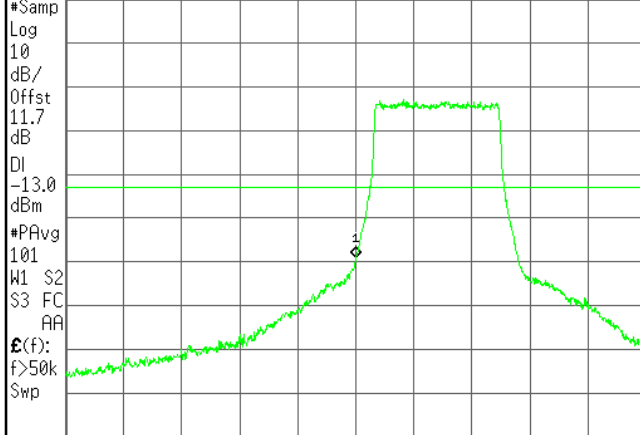
Agilent 13:14:05 May 13, 2014

R T

Freq/Channel

Ref 30 dBm #Atten 30 dB Mkr1 1.850 000 GHz -29.024 dBm

Center Freq
1.85000000 GHz



Start Freq
1.84750000 GHz

Stop Freq
1.85250000 GHz

CF Step
500.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Center 1.850 000 GHz Span 5 MHz
#Res BW 20 kHz #VBW 20 kHz Sweep 47.69 ms (1000 pts)

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HIGH CH, RB6-0

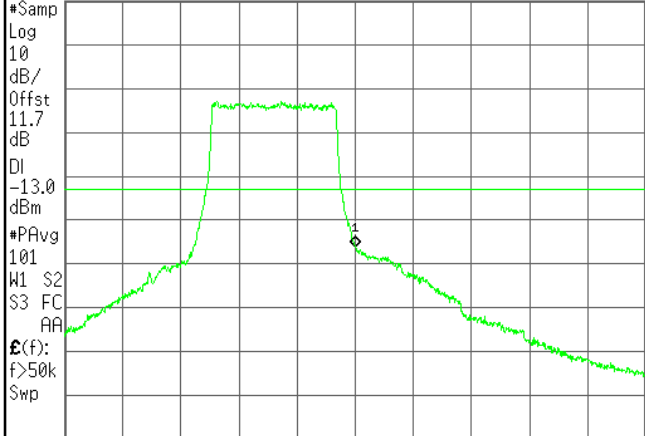
Agilent 13:24:17 May 13, 2014

R T

Freq/Channel

Ref 30 dBm #Atten 30 dB Mkr1 1.915 000 GHz -26.030 dBm

Center Freq
1.91500000 GHz



Start Freq
1.91250000 GHz

Stop Freq
1.91750000 GHz

CF Step
500.000000 kHz
Auto Man

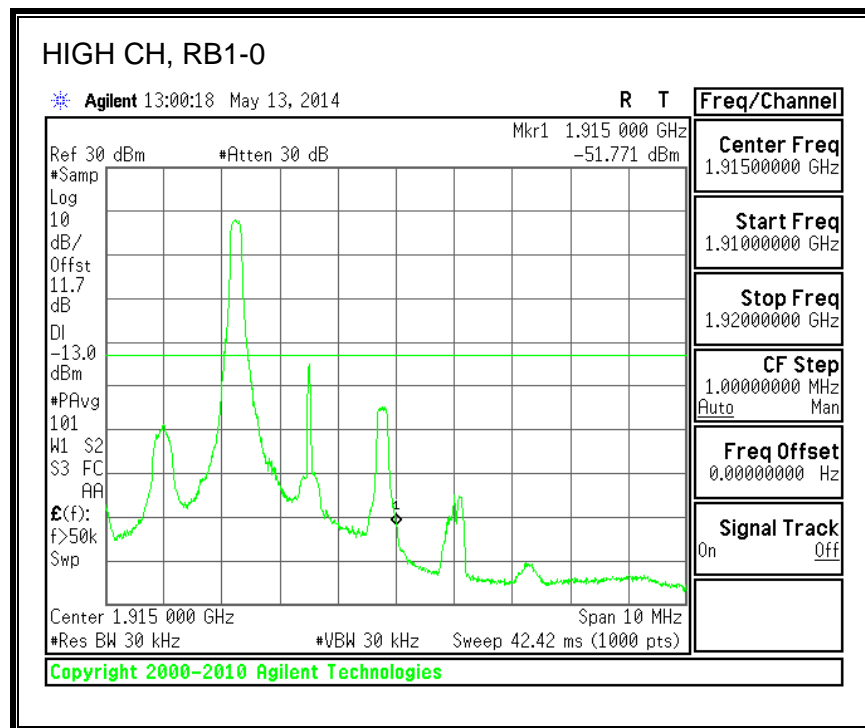
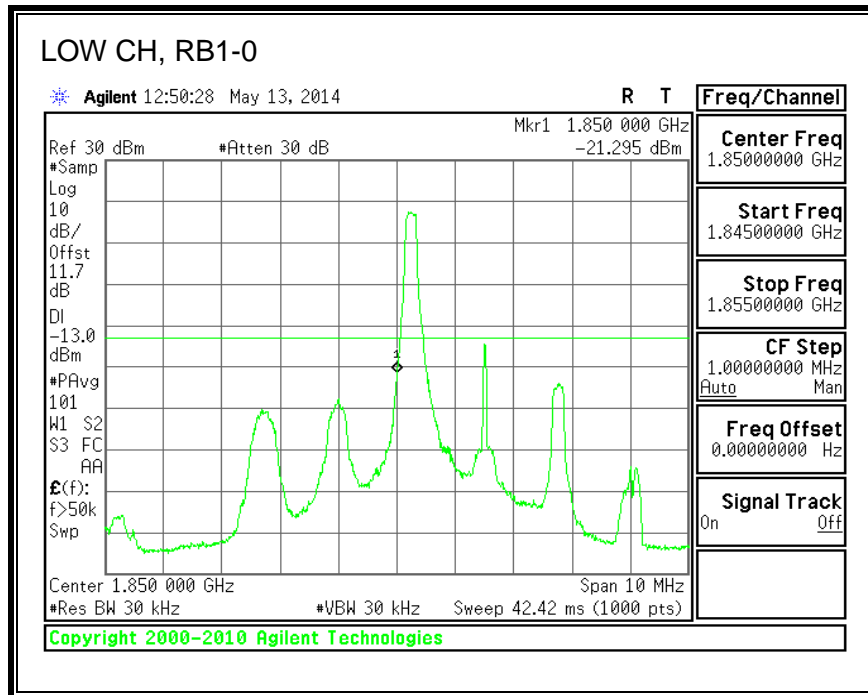
Freq Offset
0.00000000 Hz

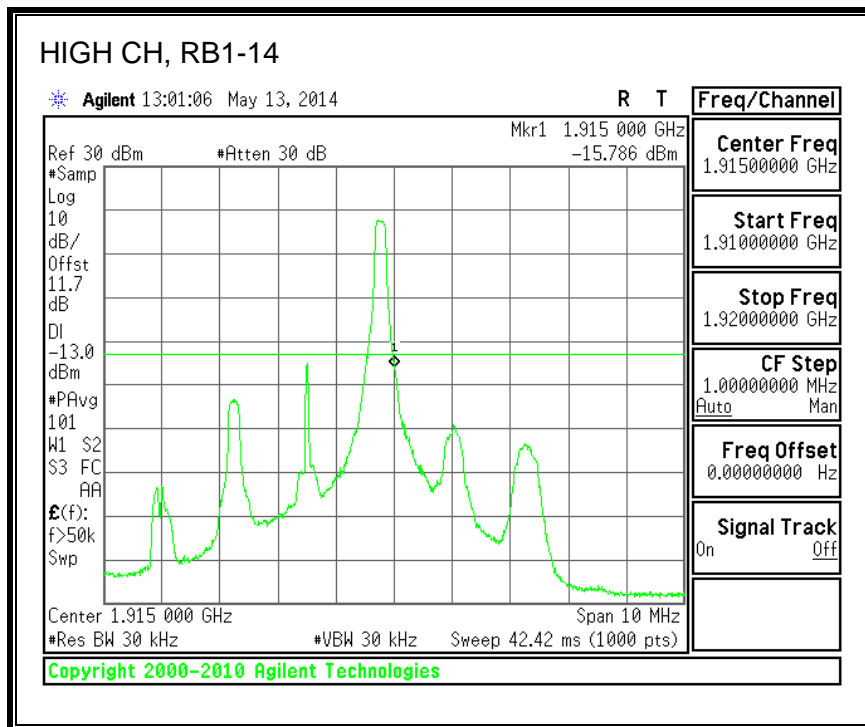
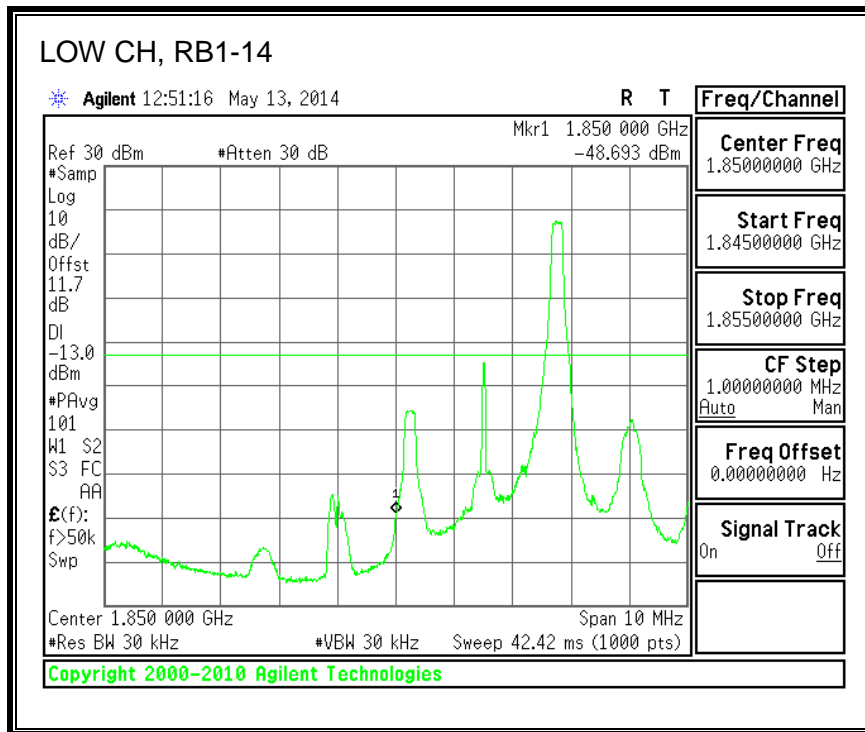
Signal Track
On Off

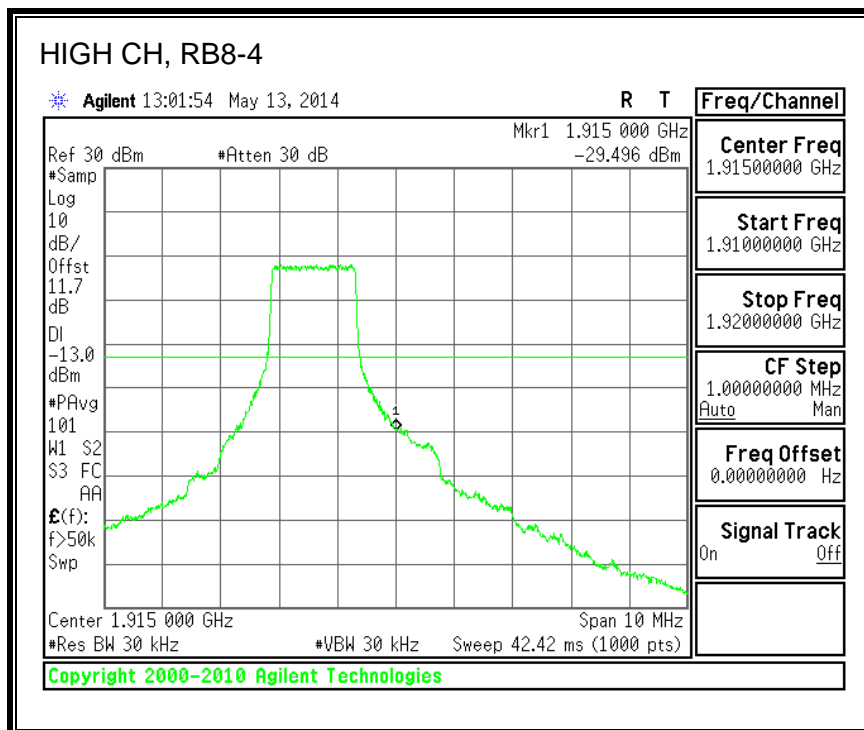
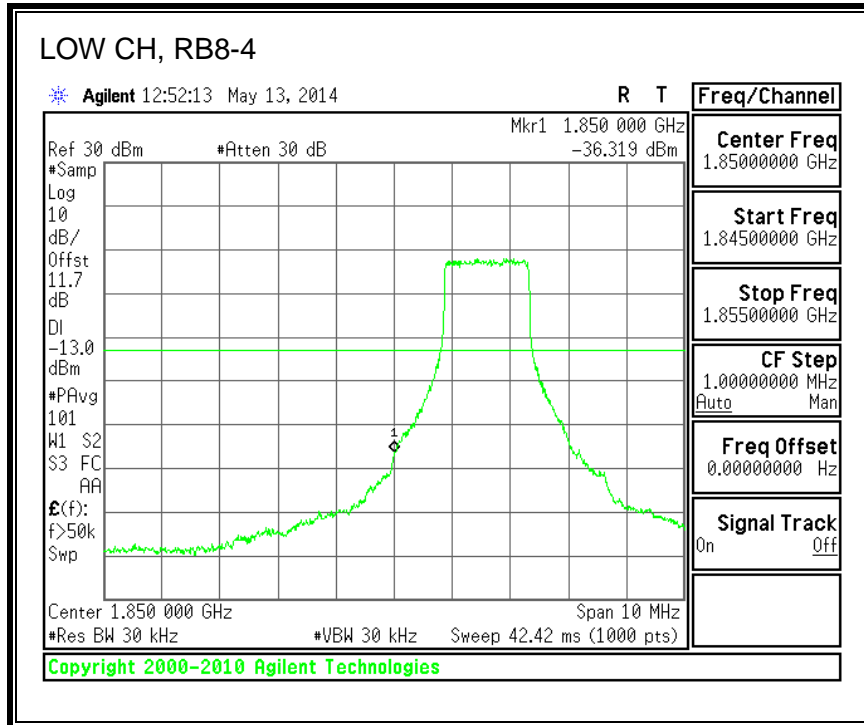
Center 1.915 000 GHz Span 5 MHz
#Res BW 20 kHz #VBW 20 kHz Sweep 47.69 ms (1000 pts)

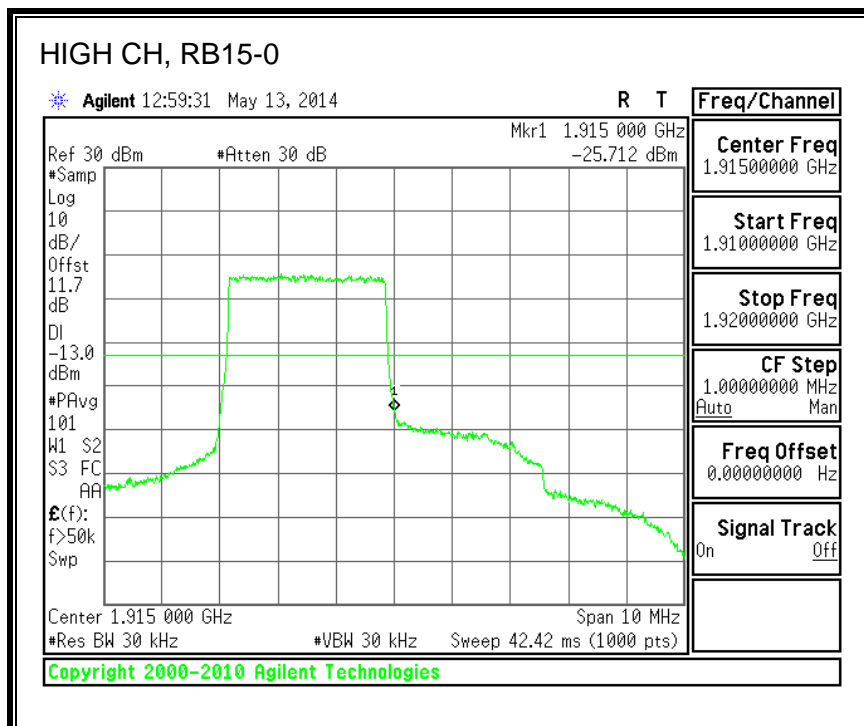
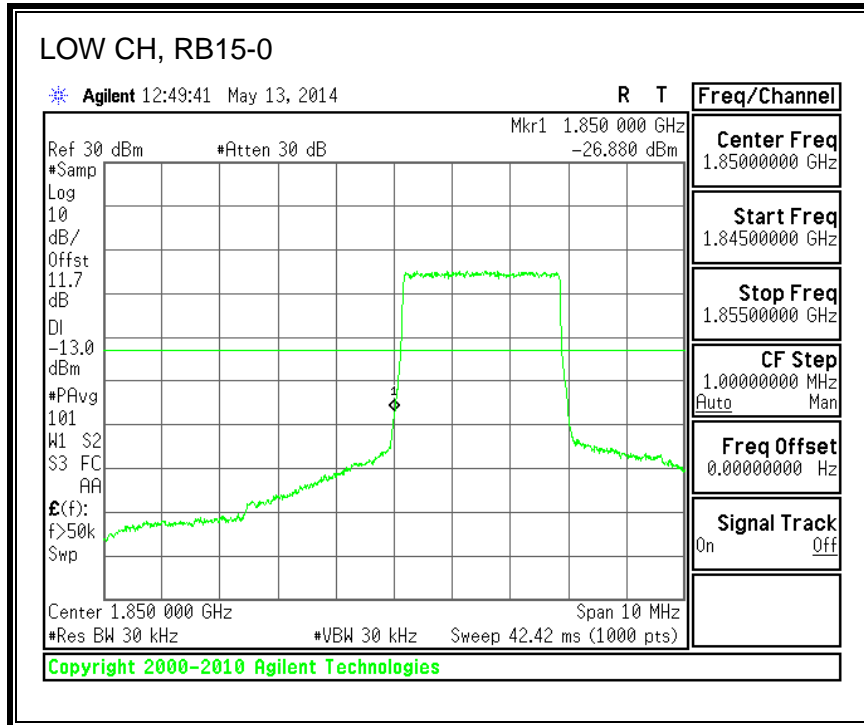
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QPSK, (3.0 MHz BAND WIDTH)

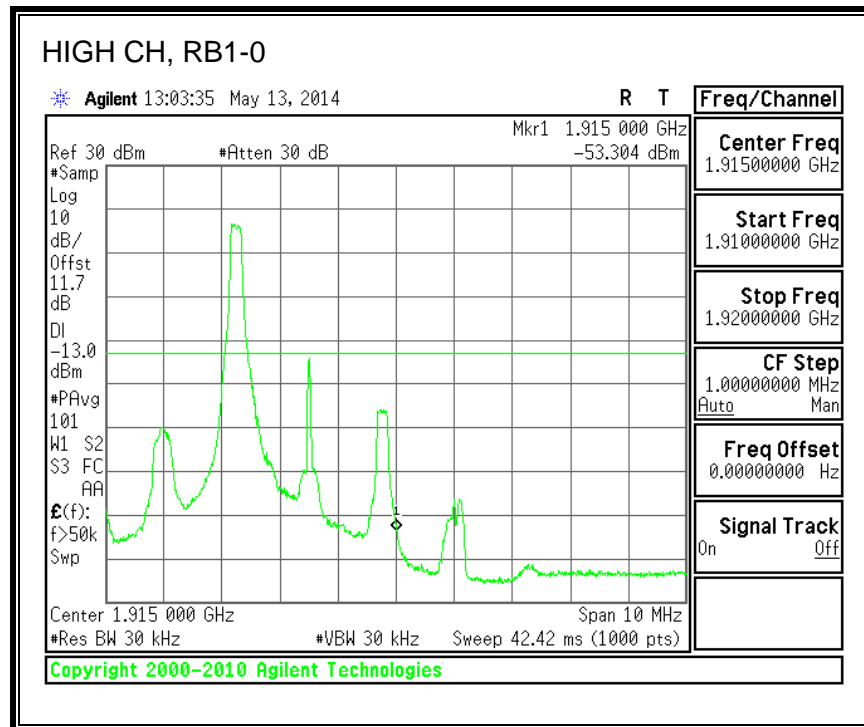
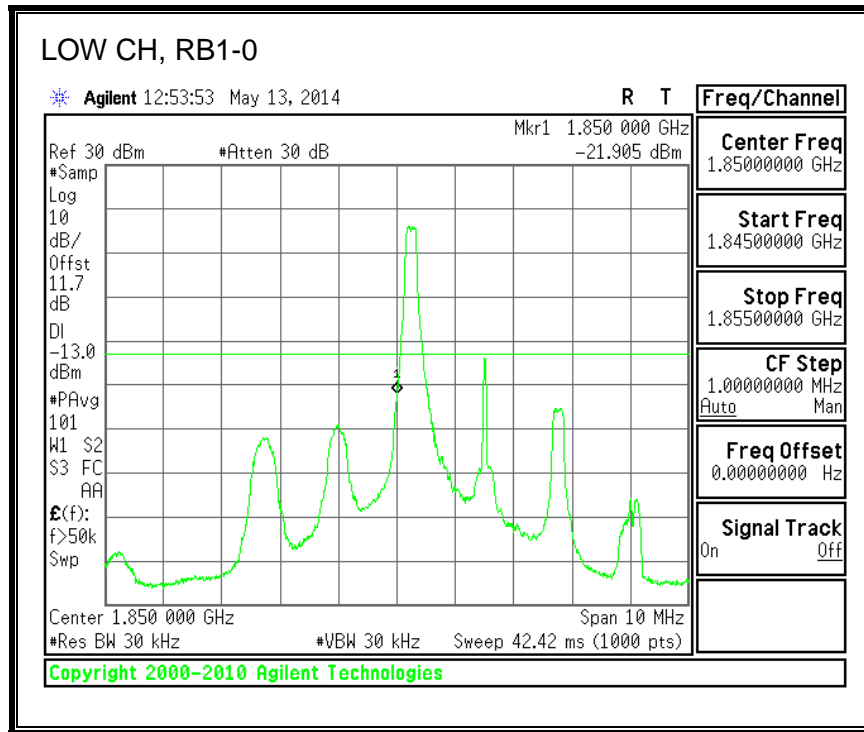


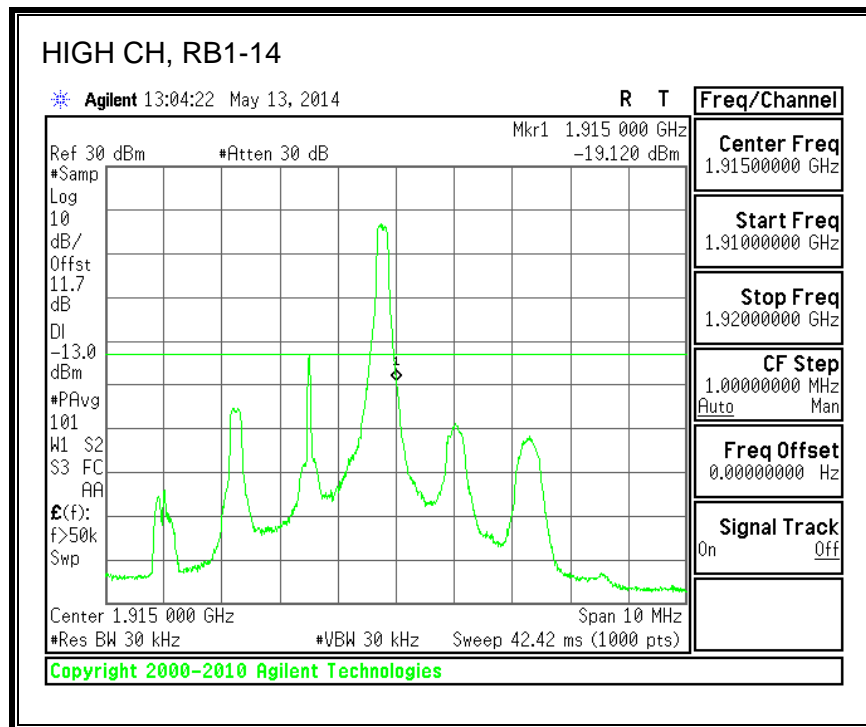
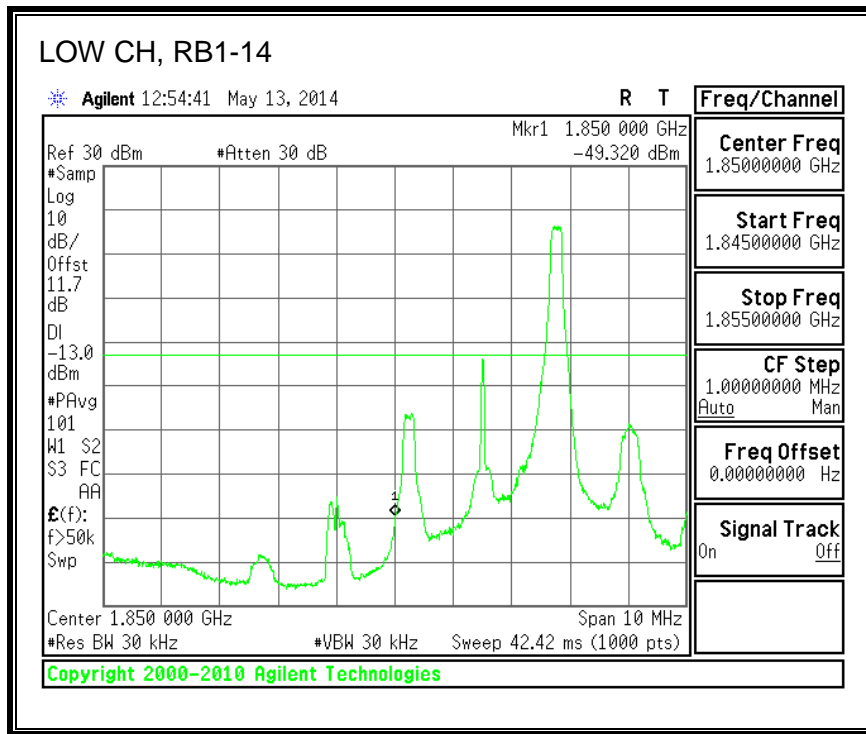


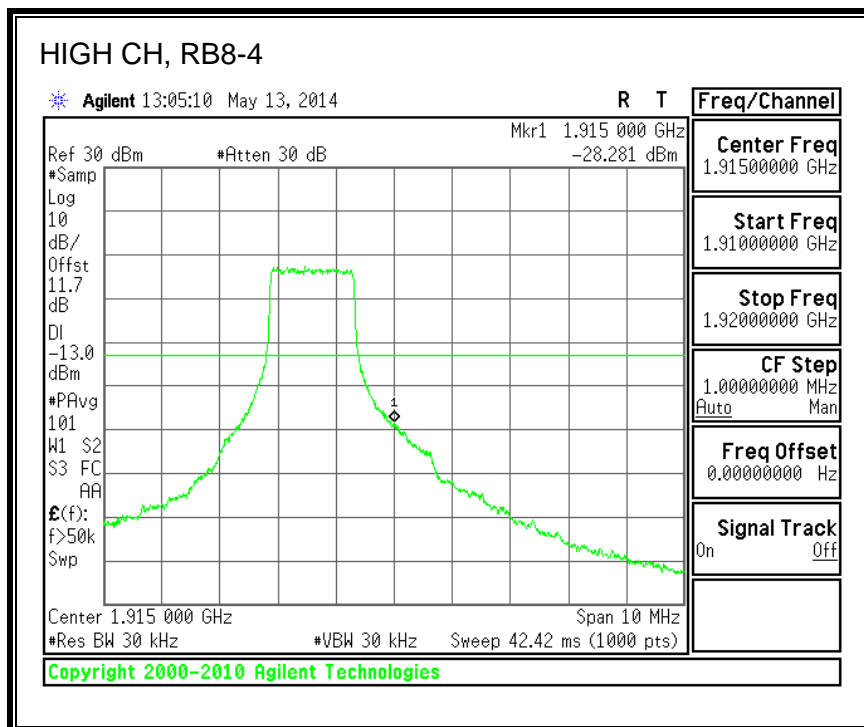
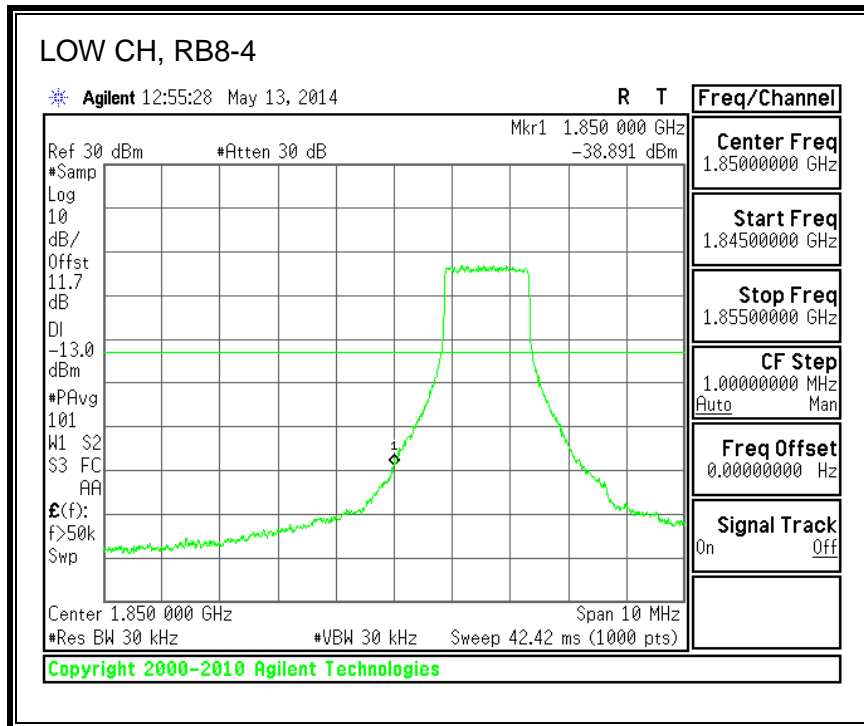


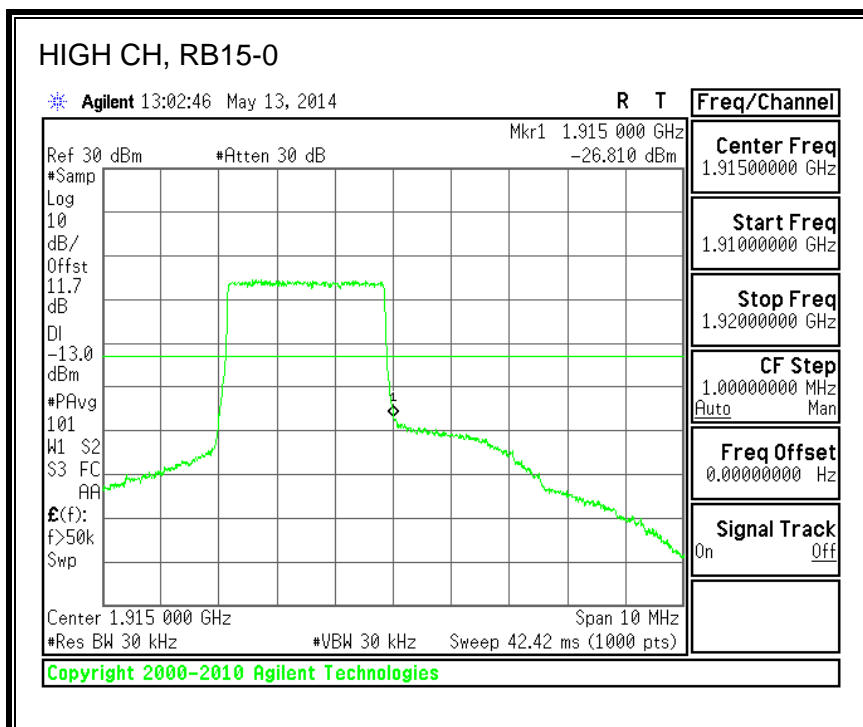
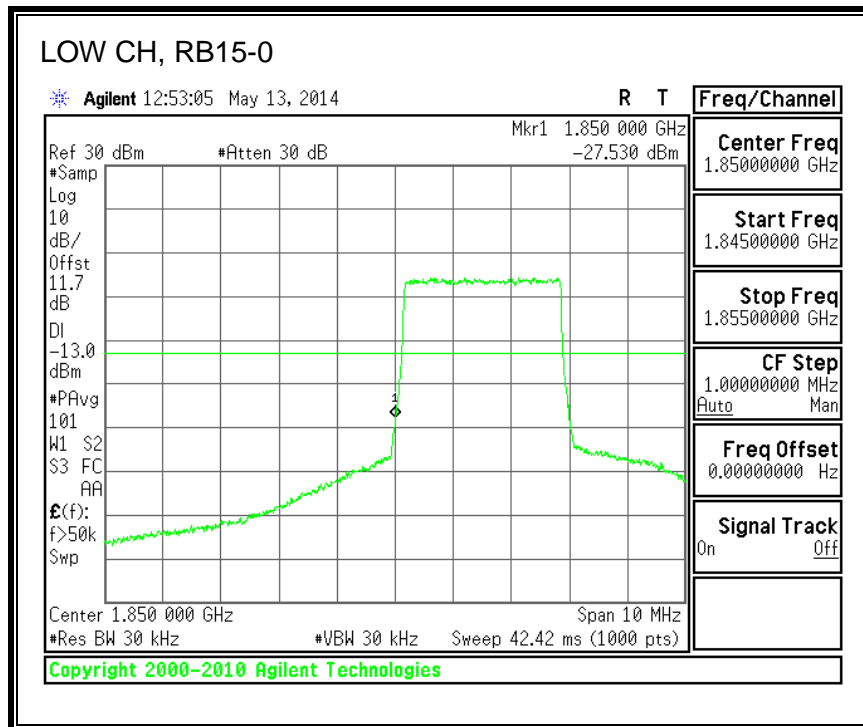


16QAM, (3.0 MHz BAND WIDTH)

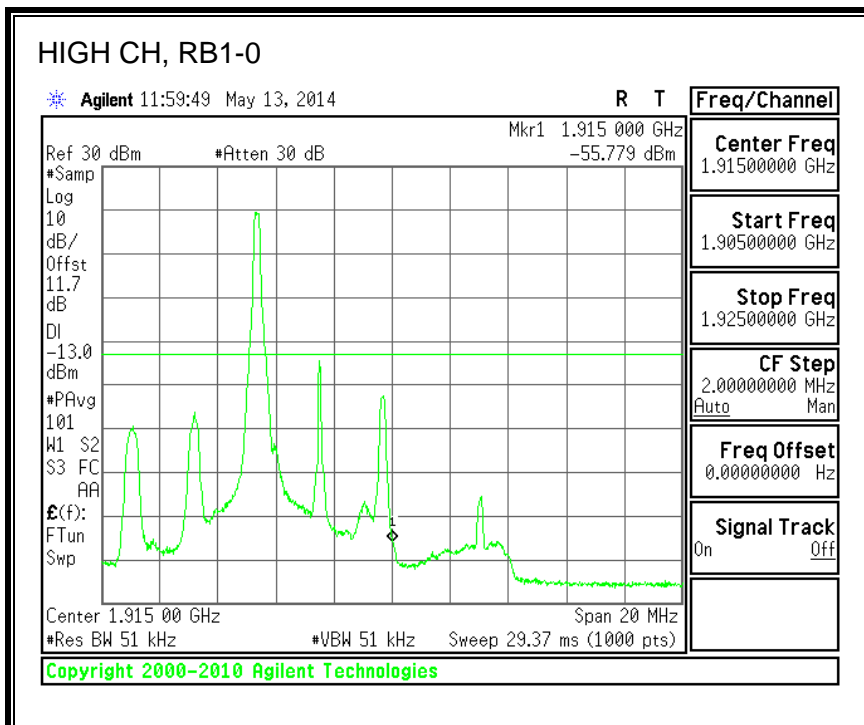
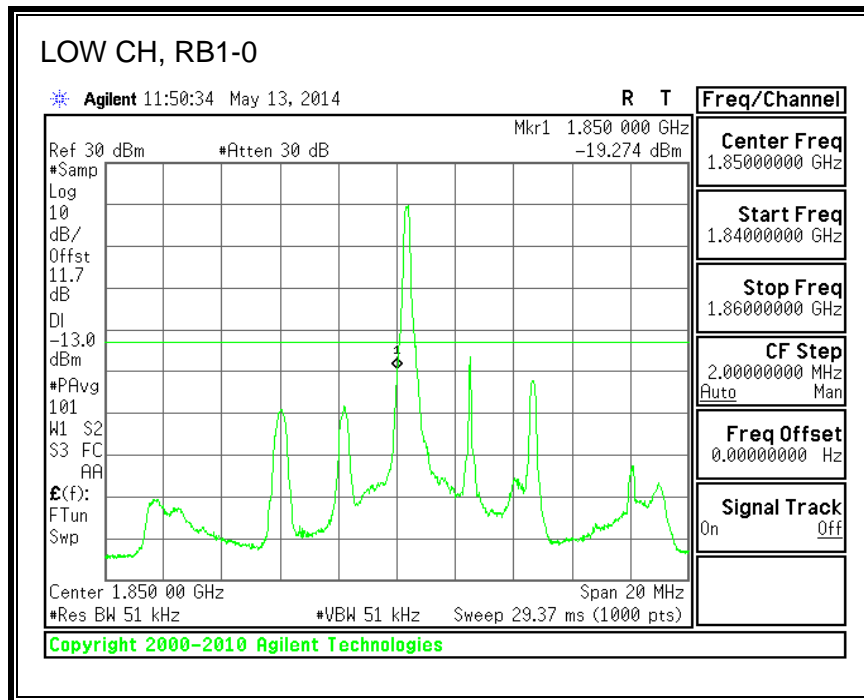


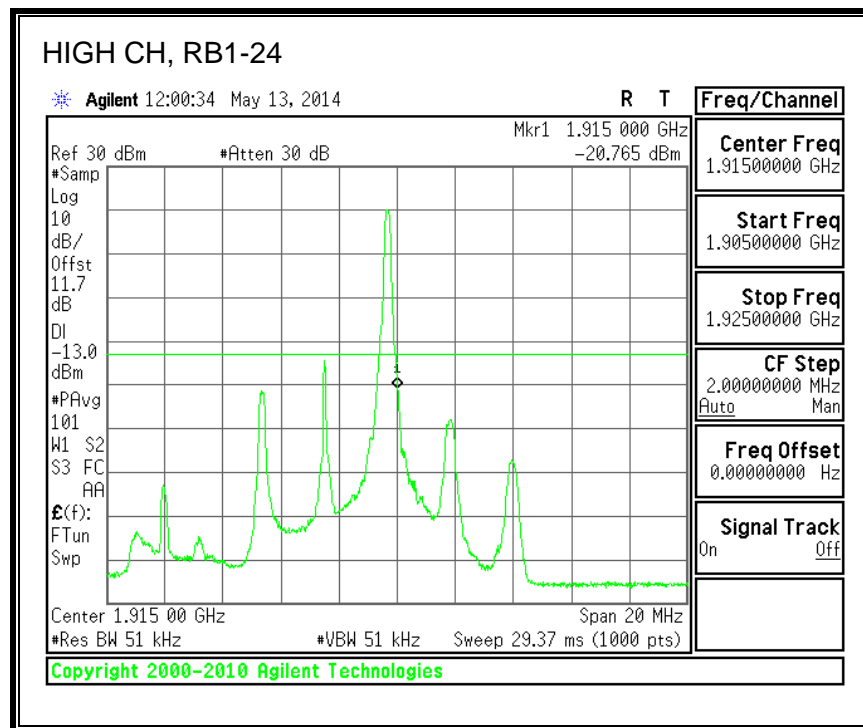
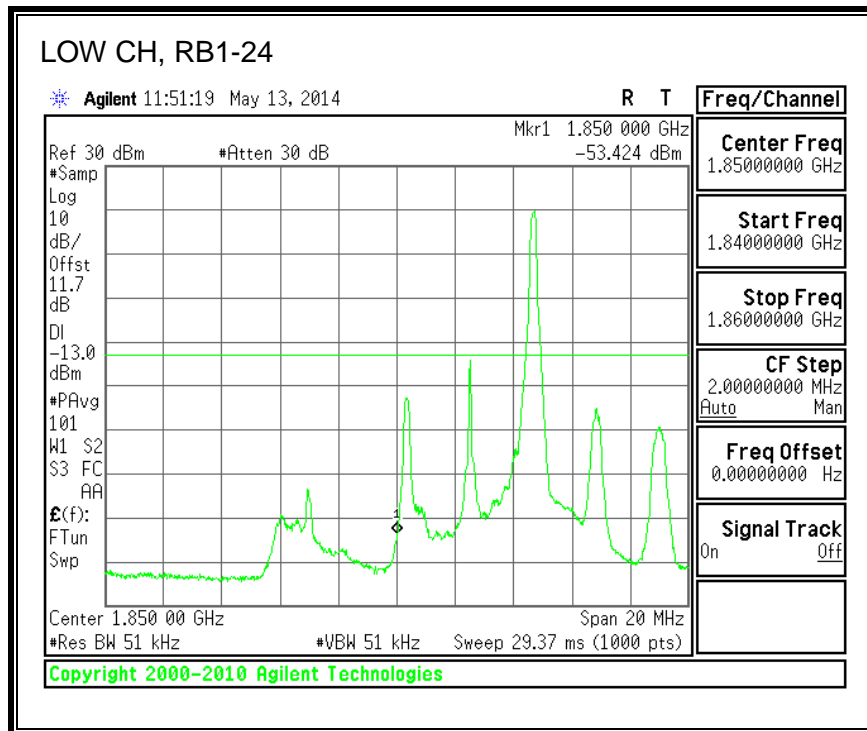


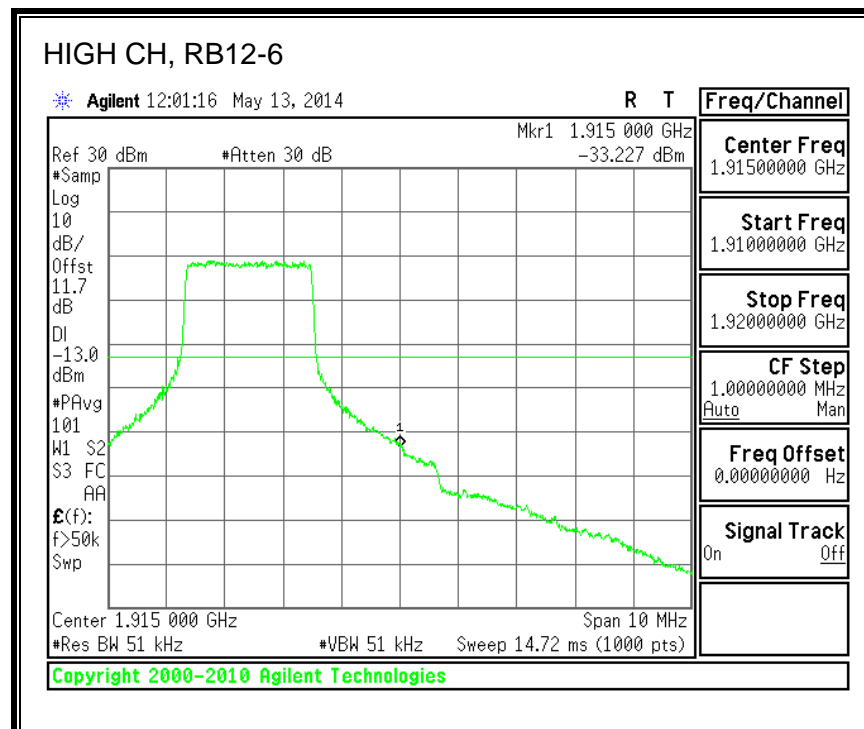
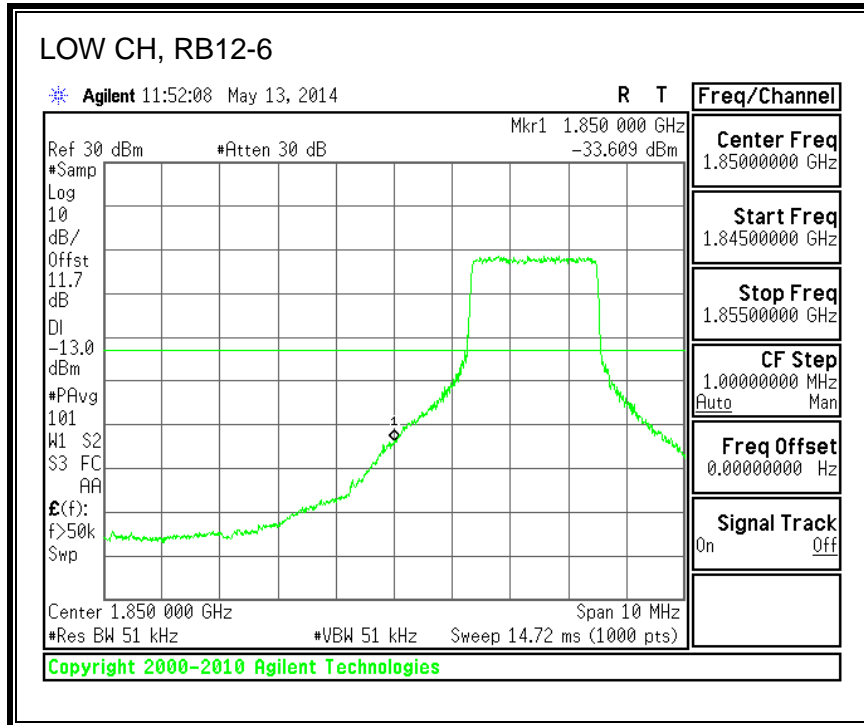


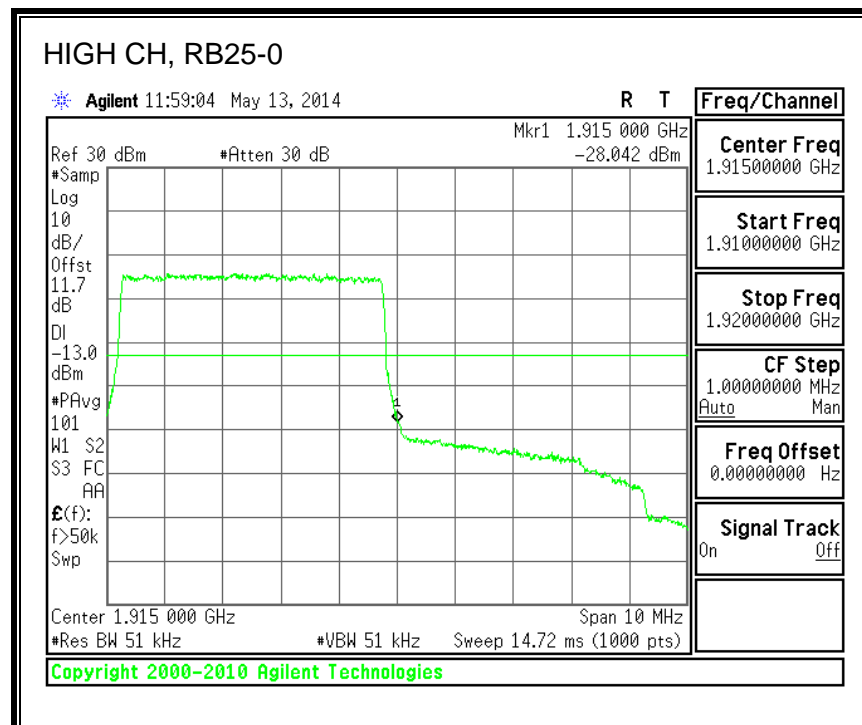
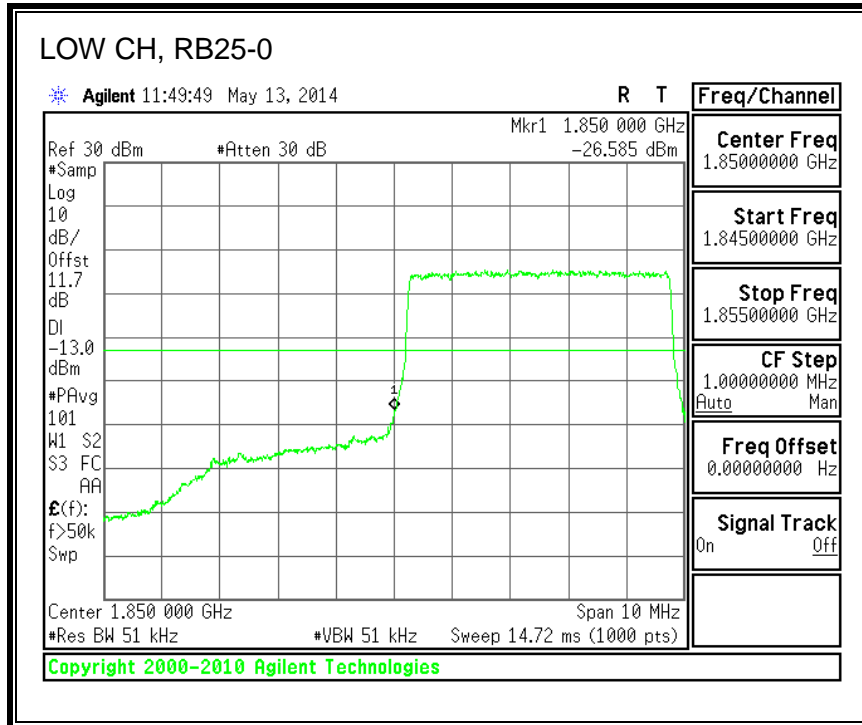


QPSK, (5.0 MHz BAND WIDTH)

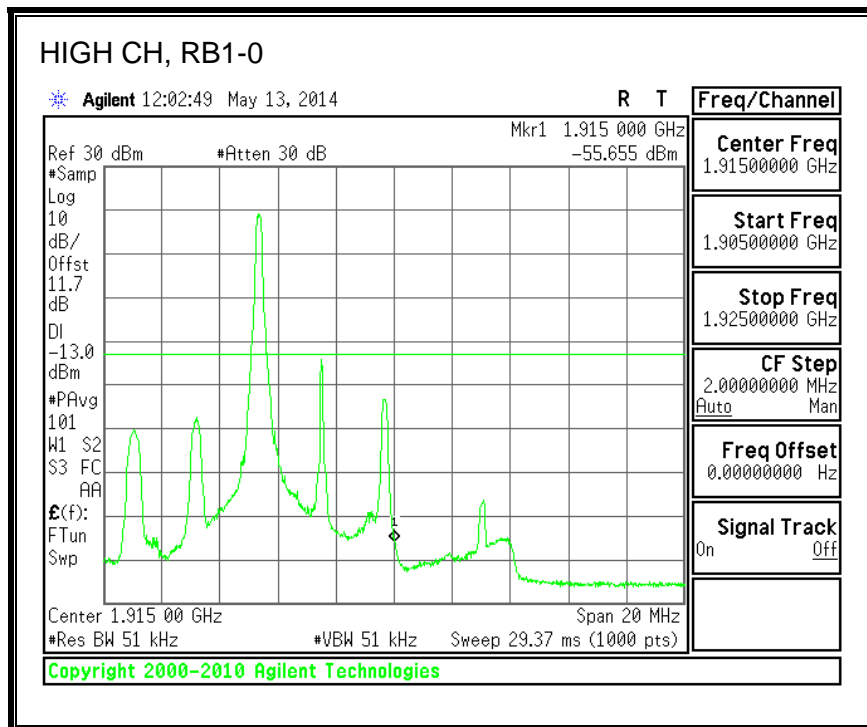
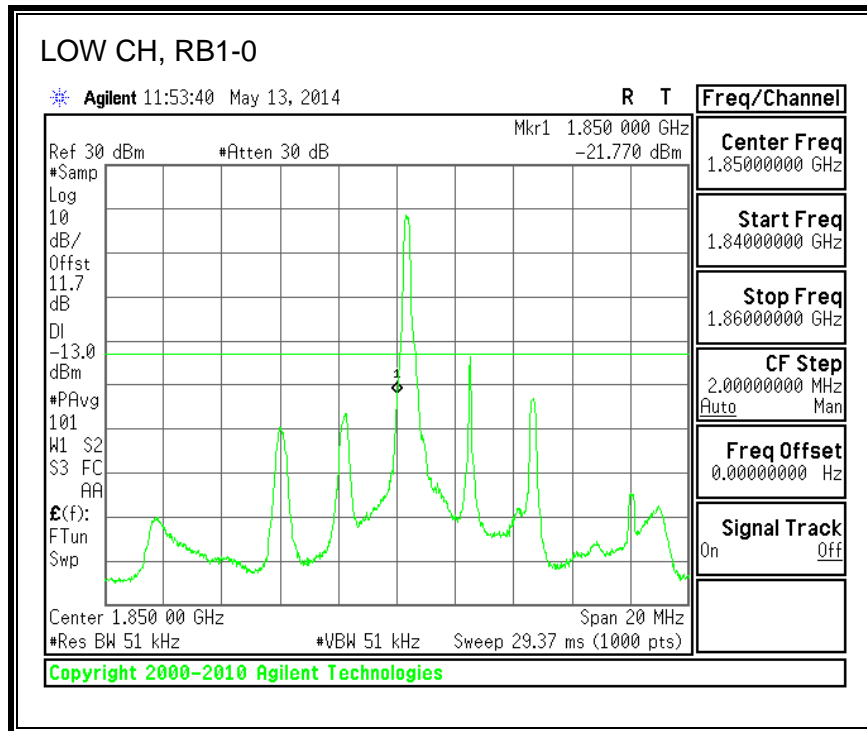


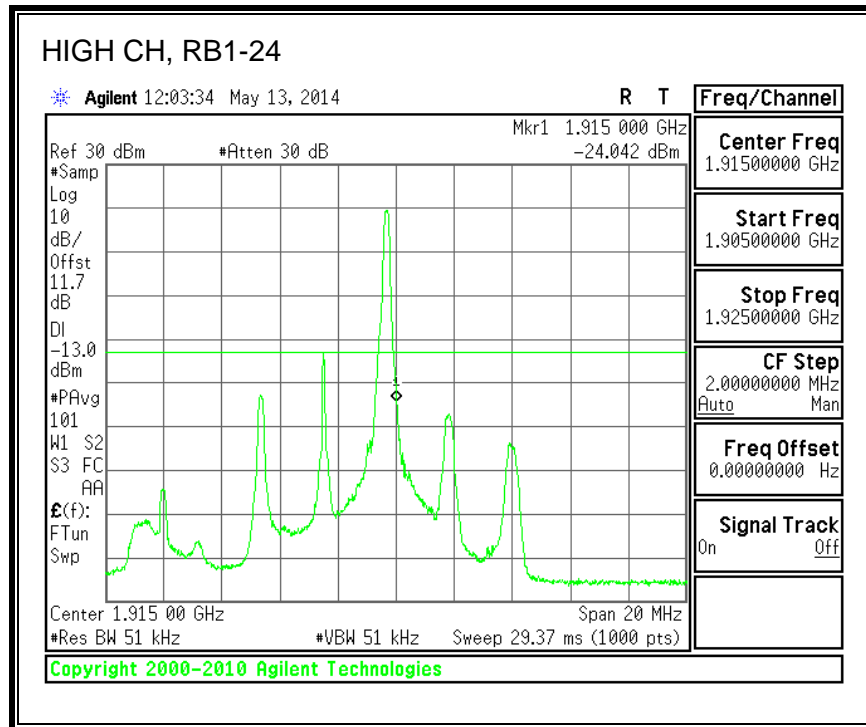
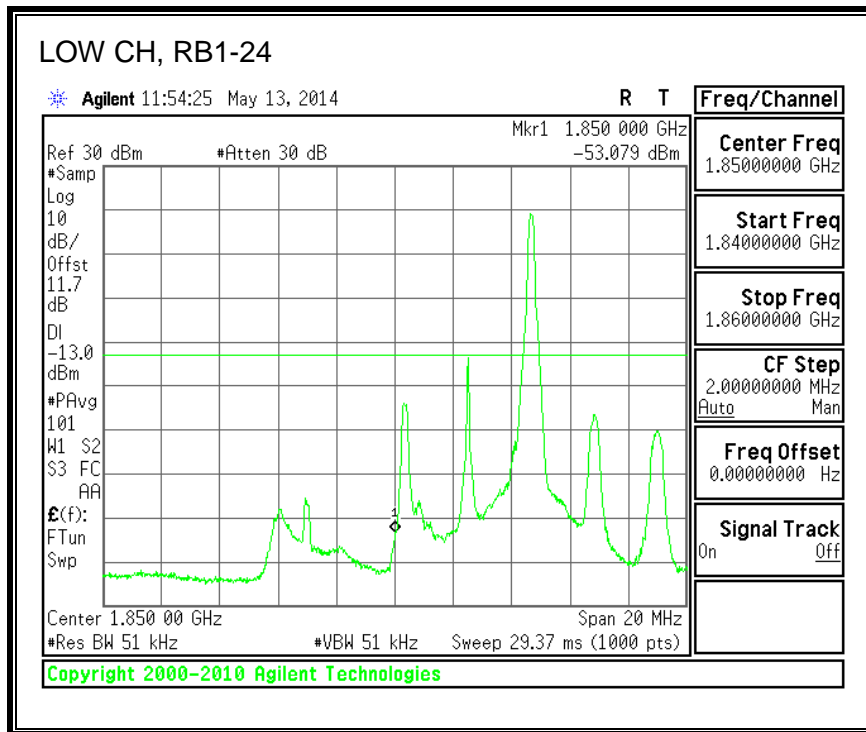


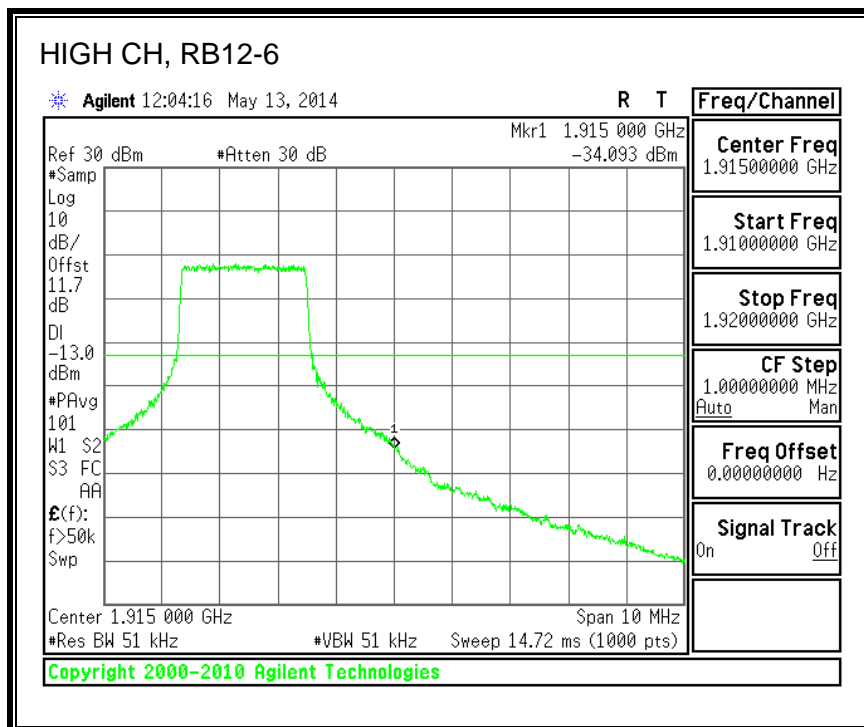
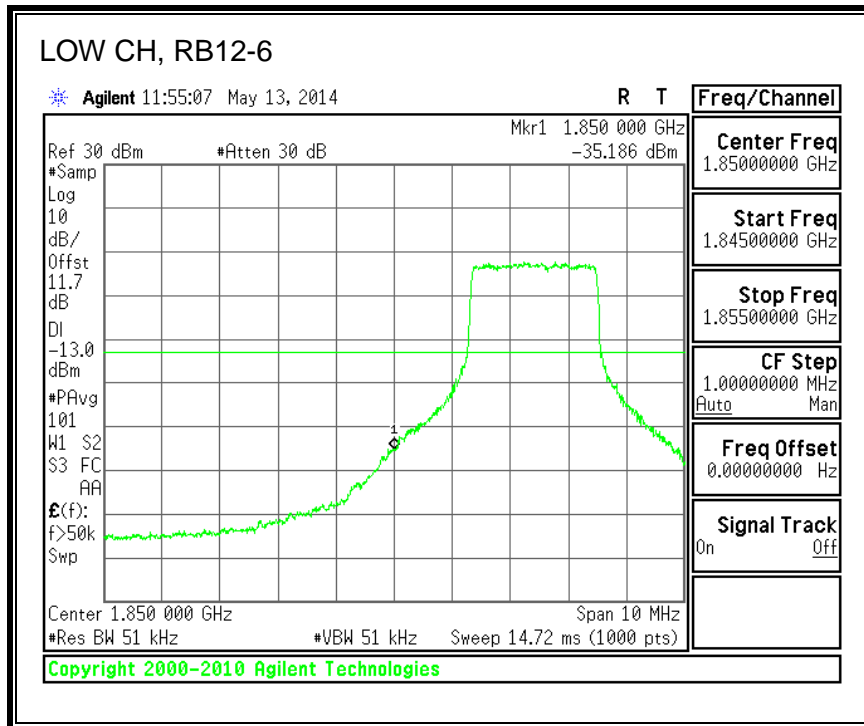


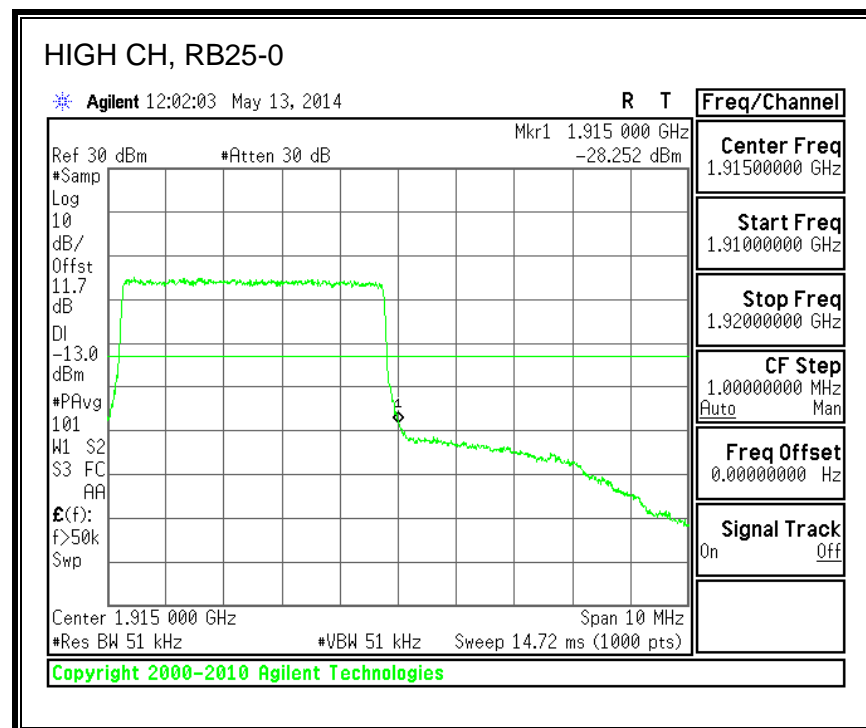
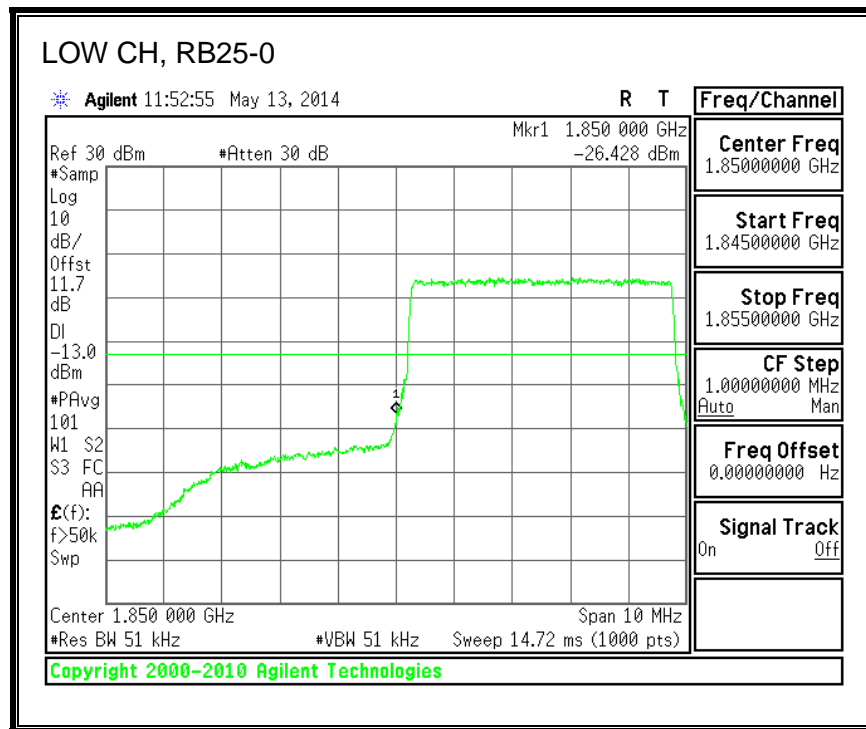


16QAM, (5.0 MHz BAND WIDTH)



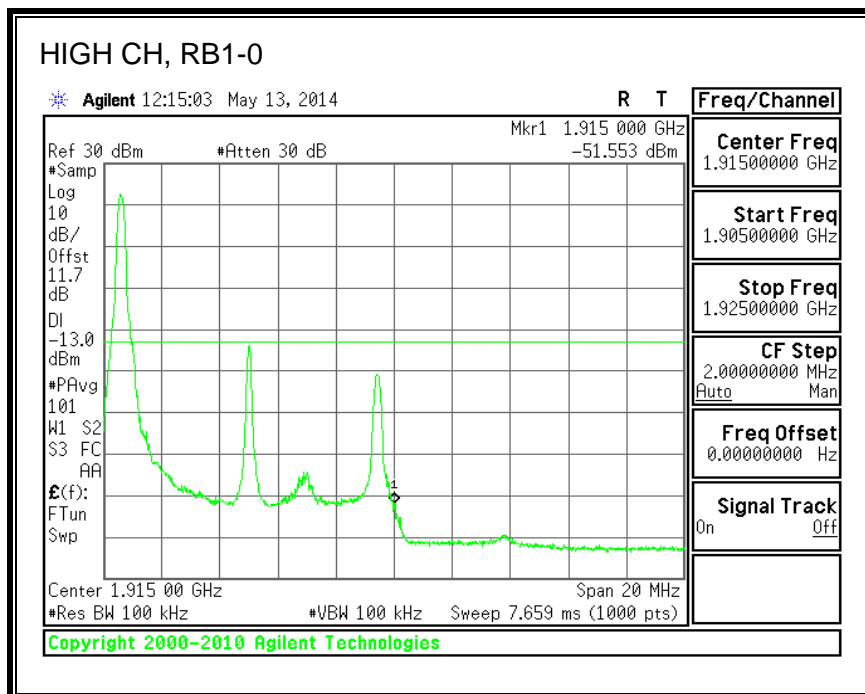
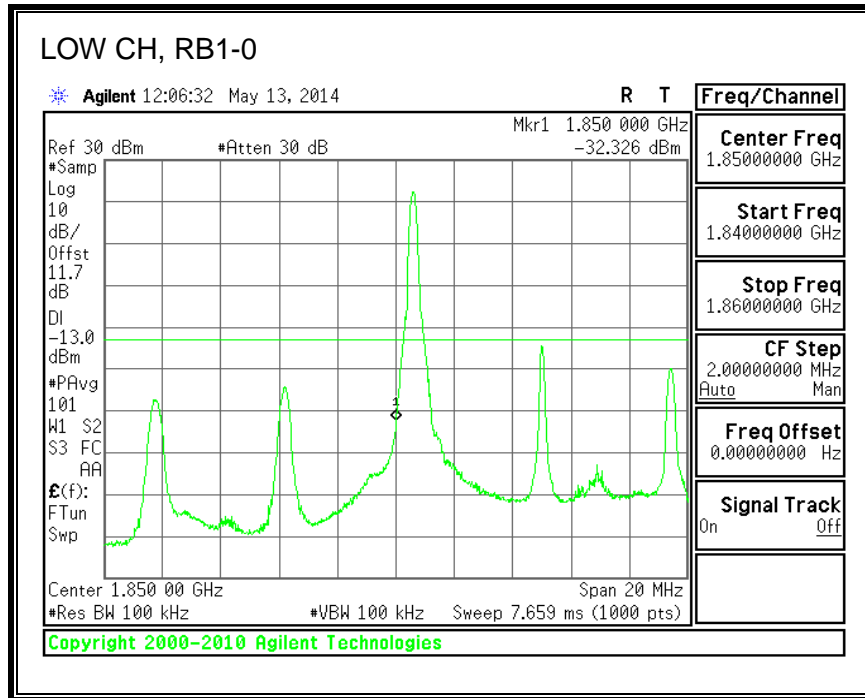


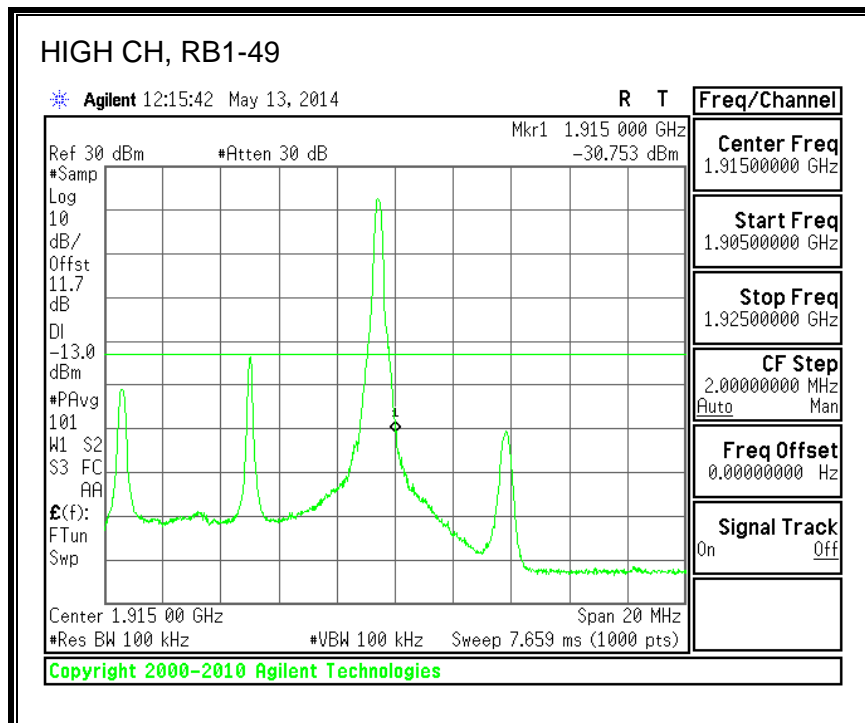
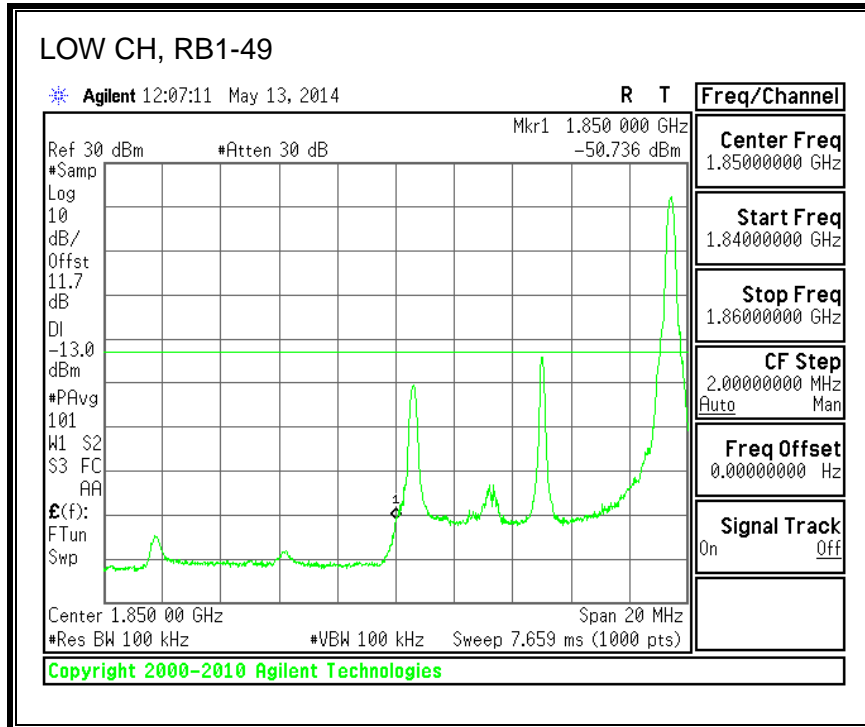


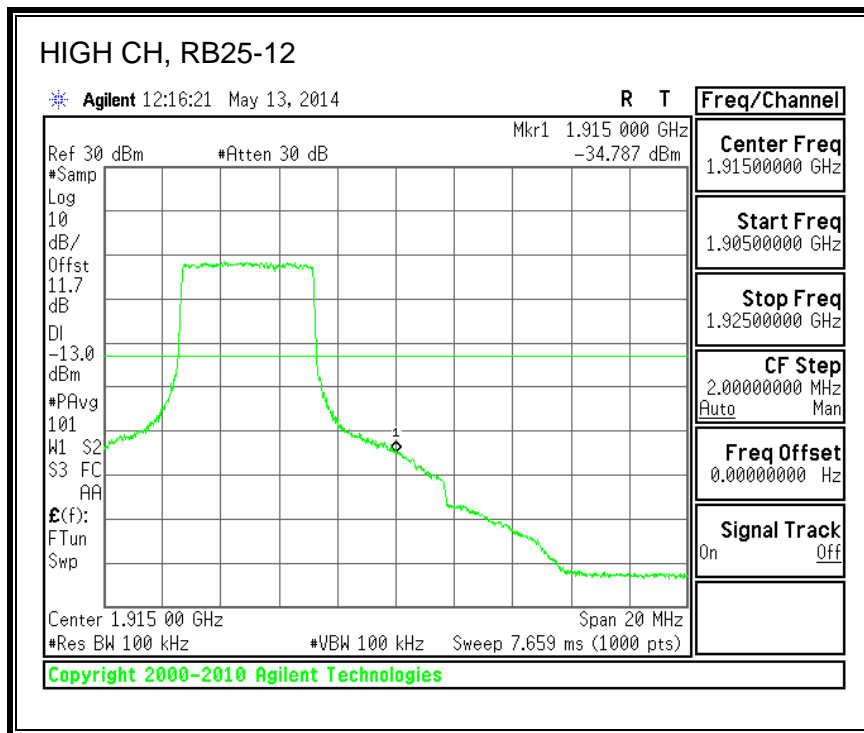
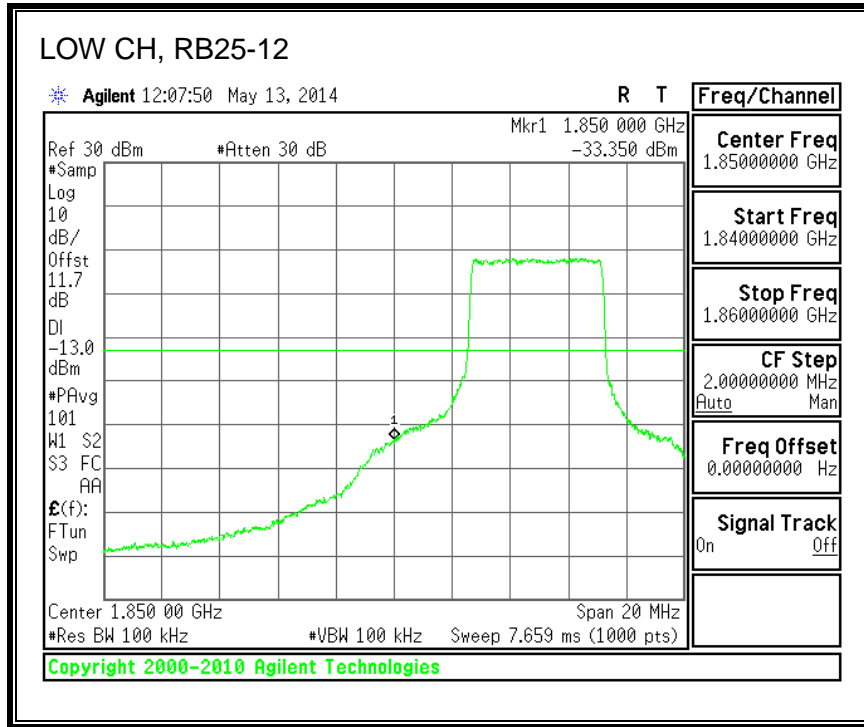


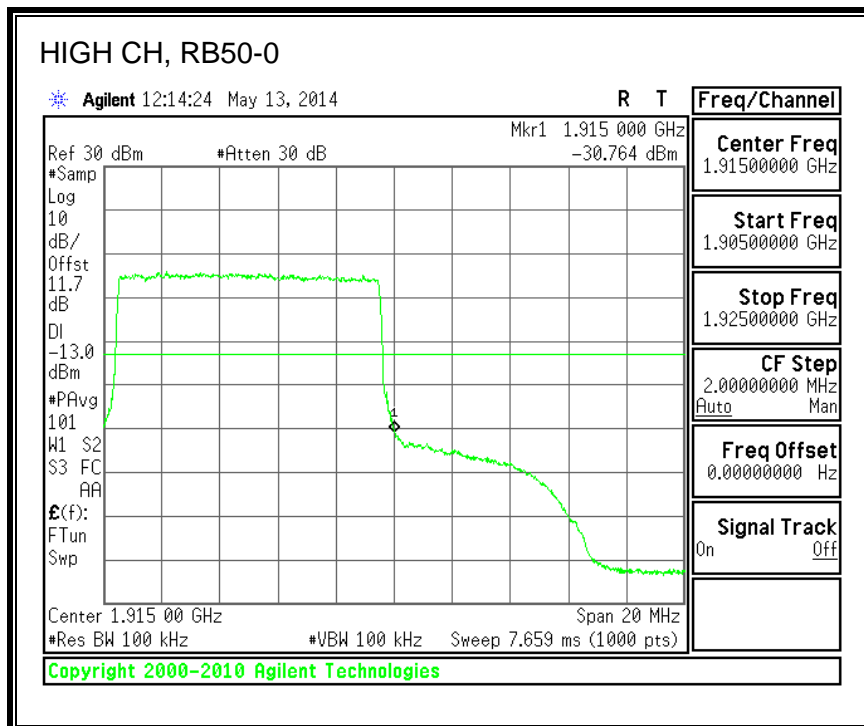
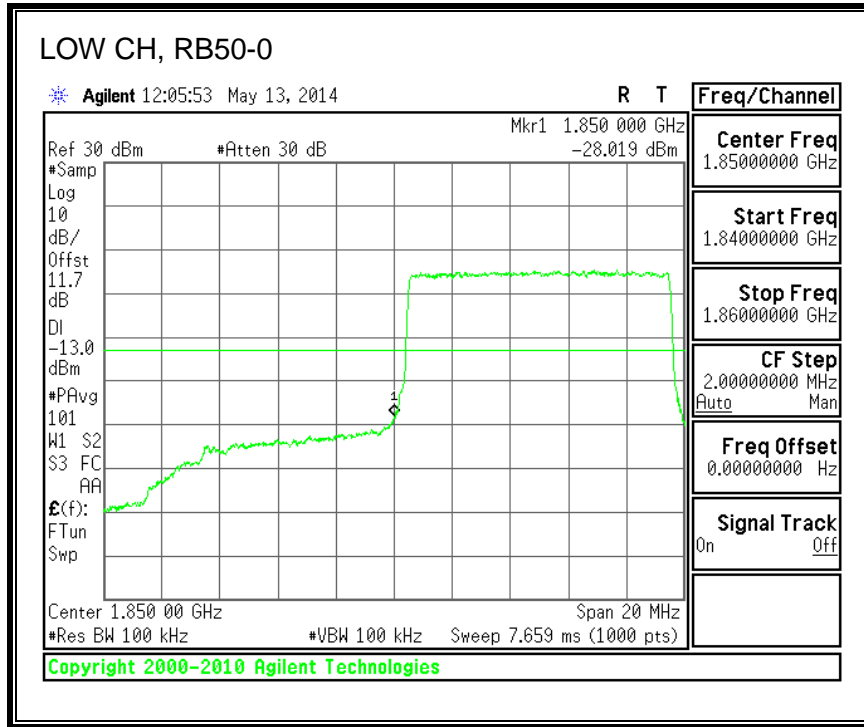
Band 25 (10.0 MHz BAND WIDTH)

LTE QPSK

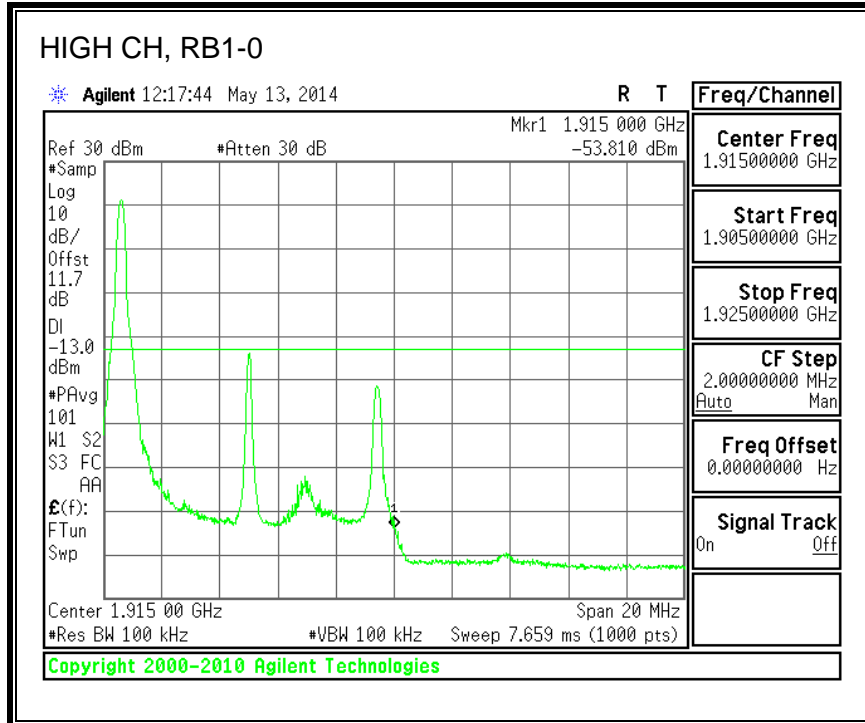
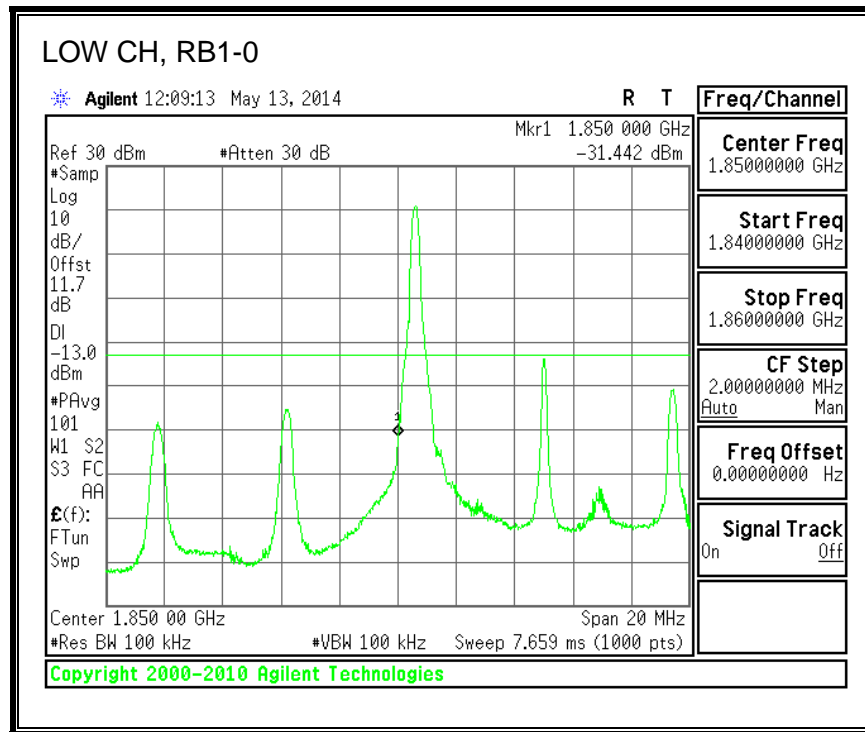


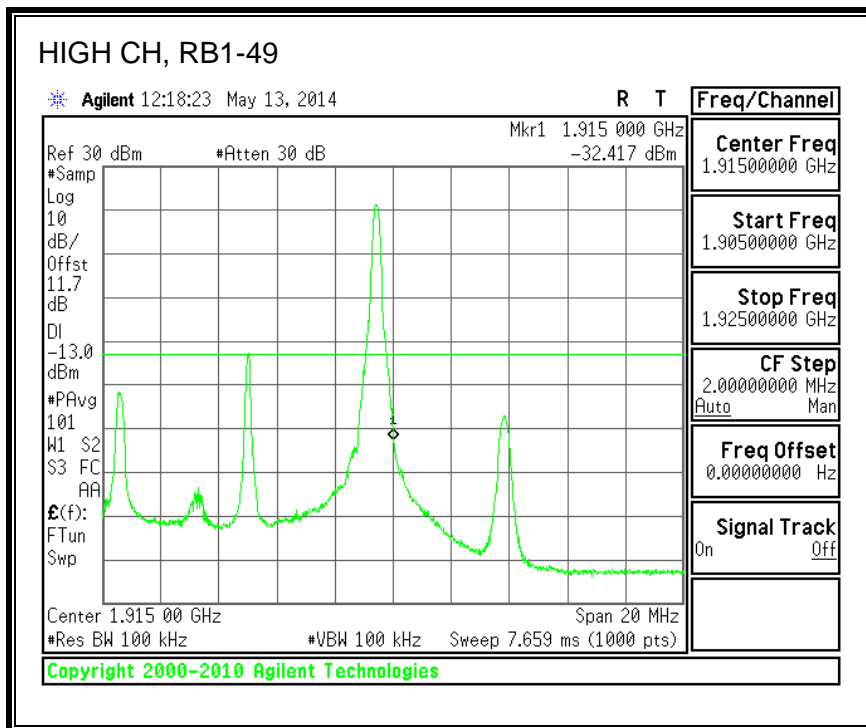
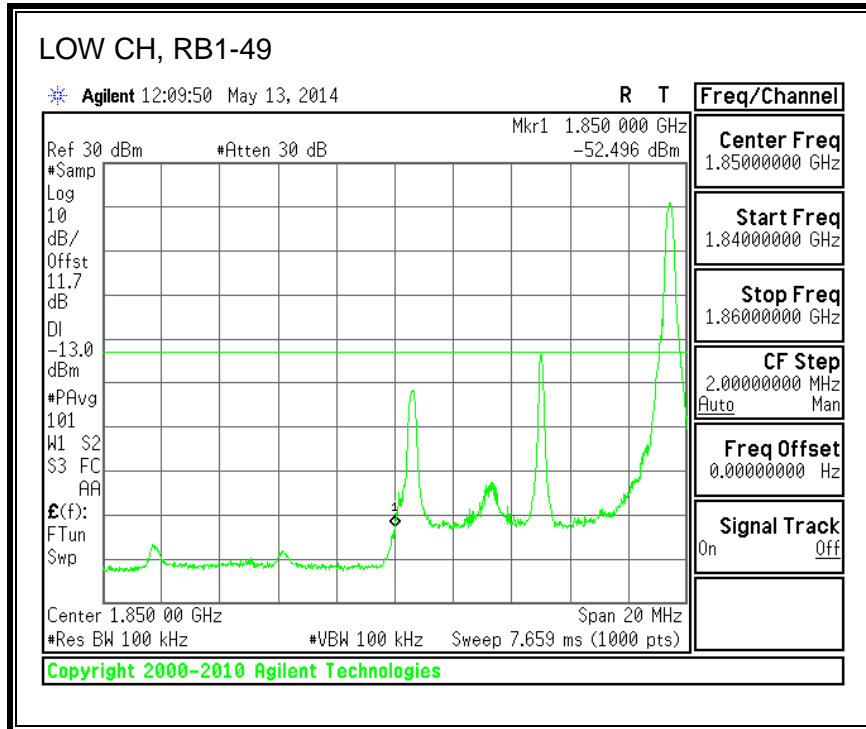


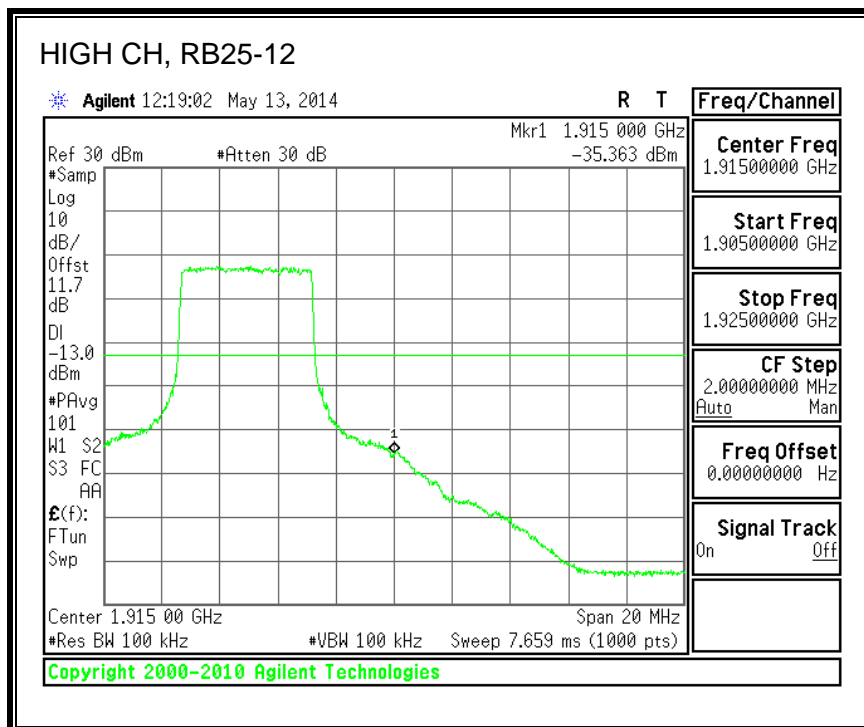
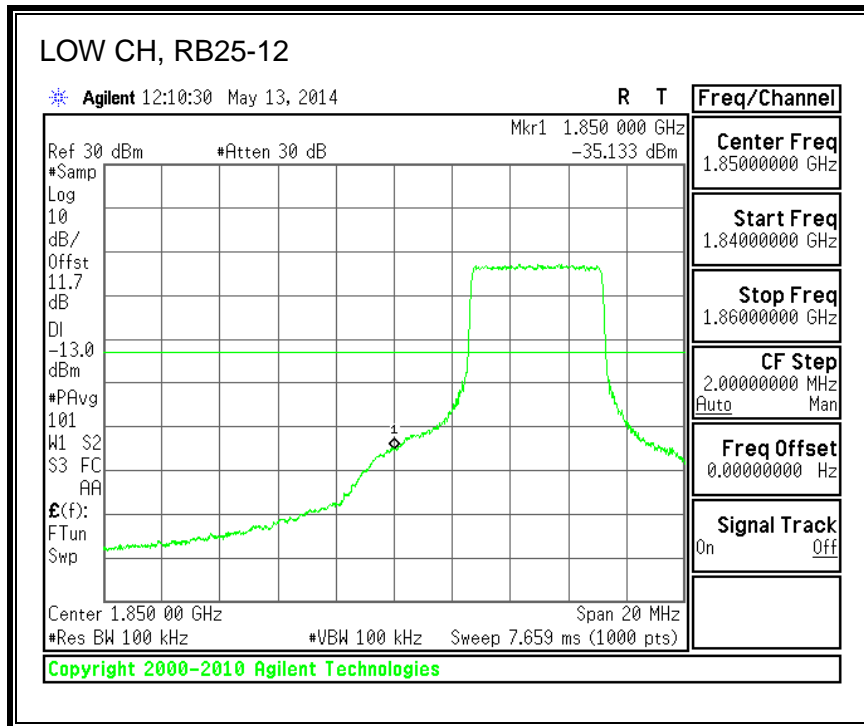


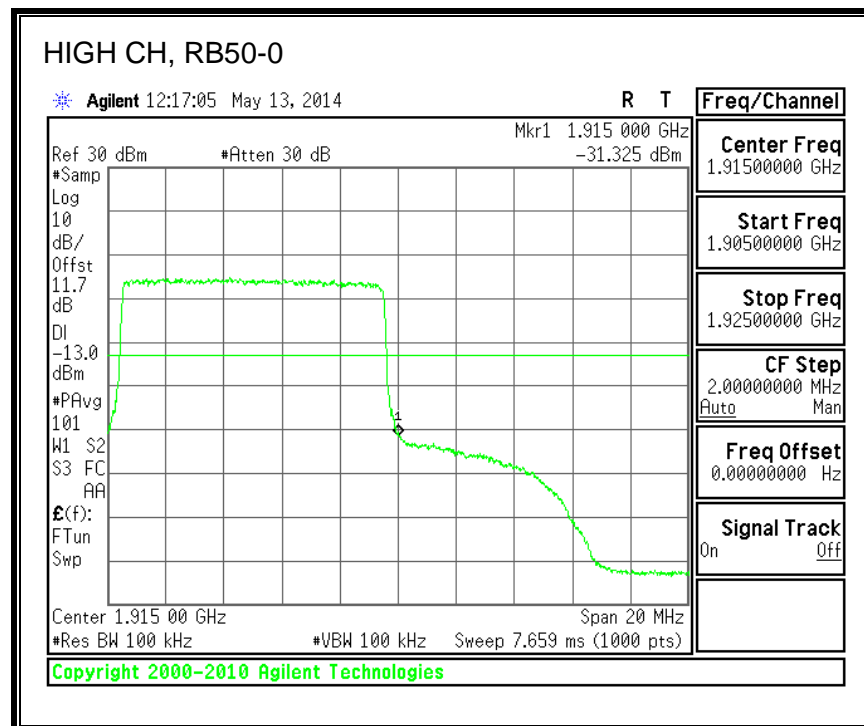
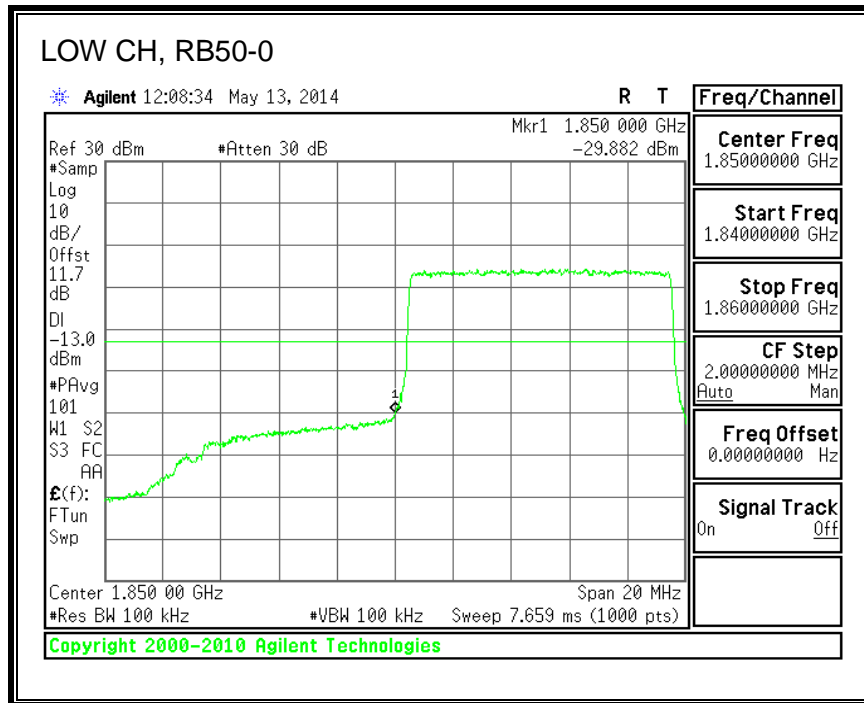


16QAM, (10.0 MHz BAND WIDTH)

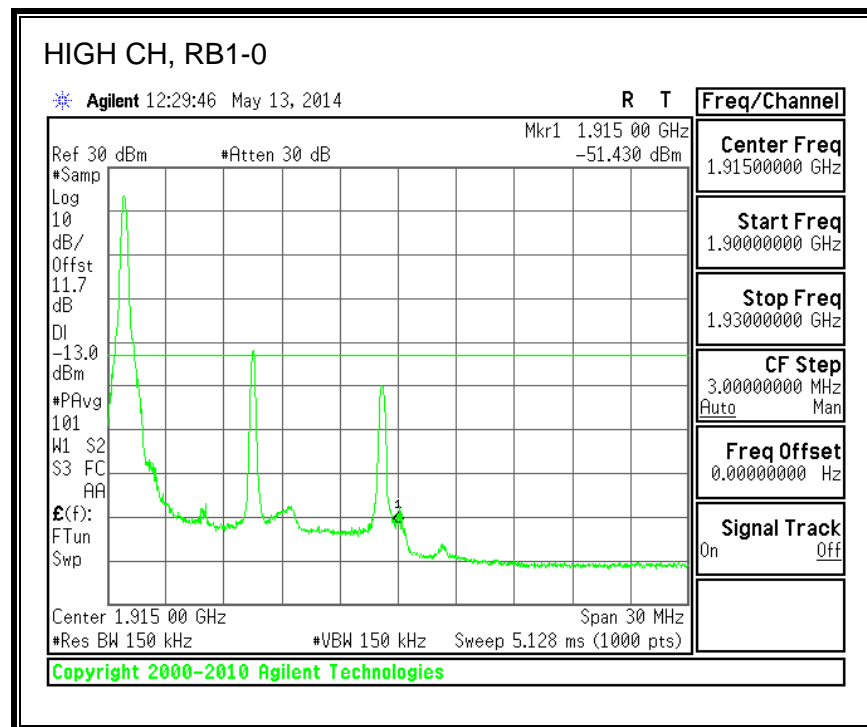
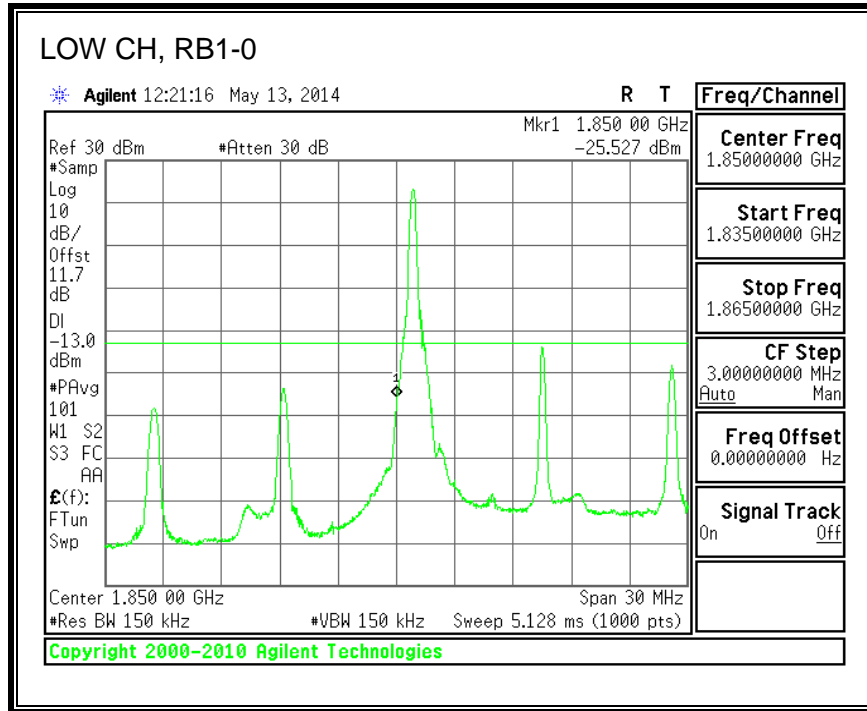


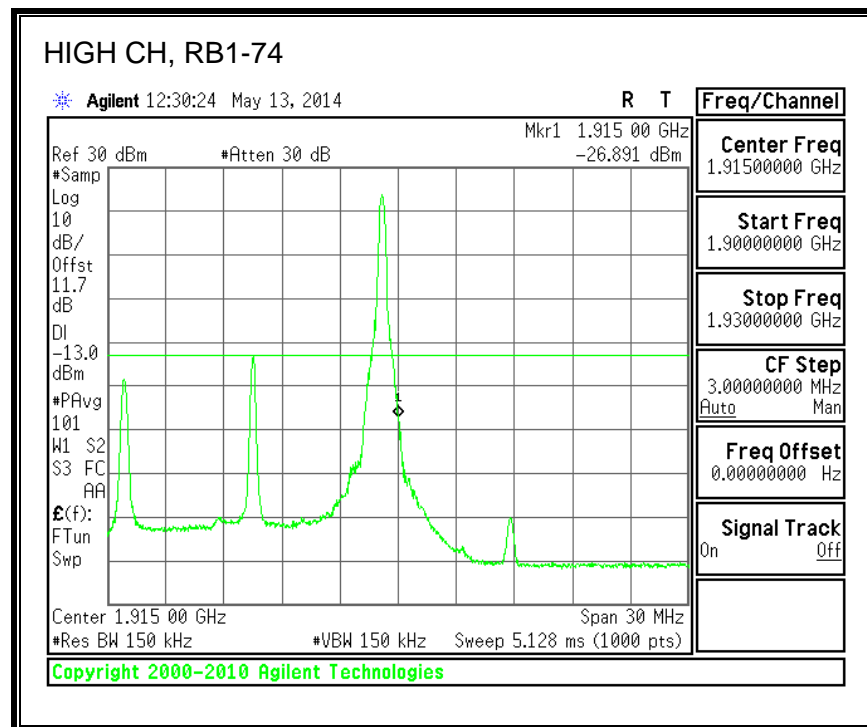
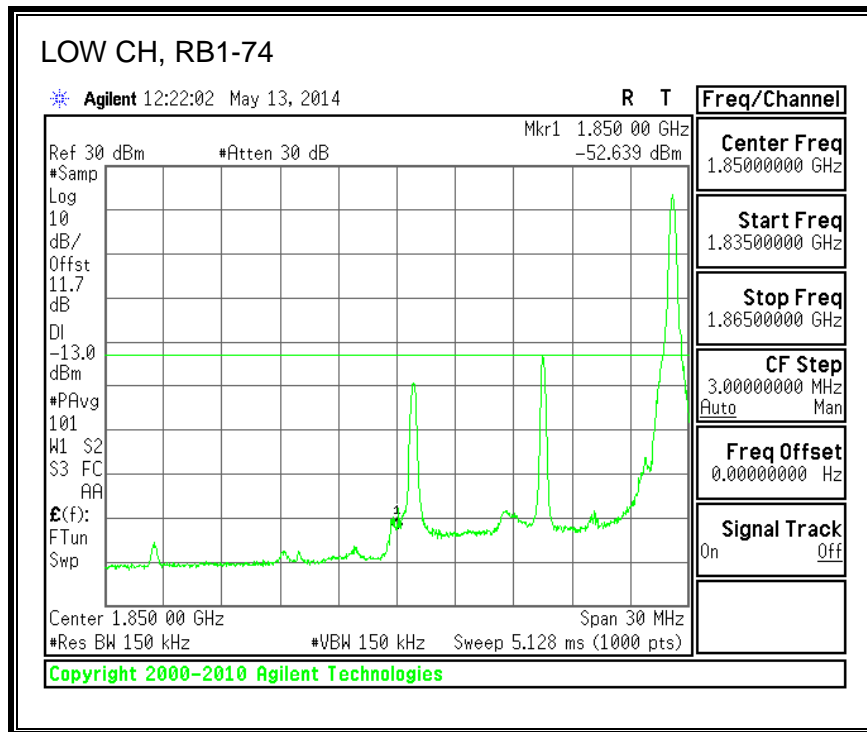


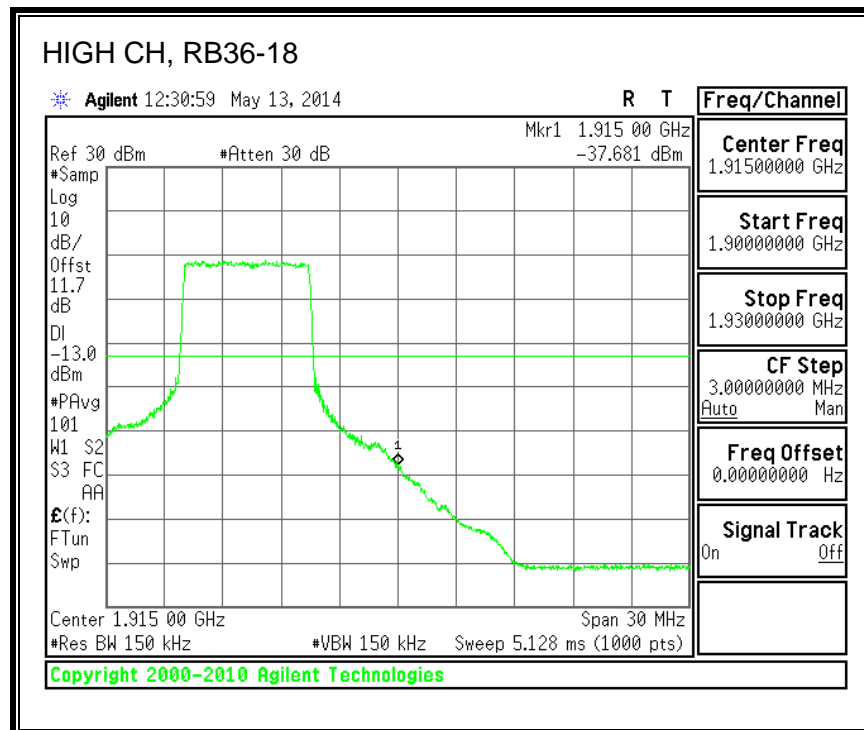
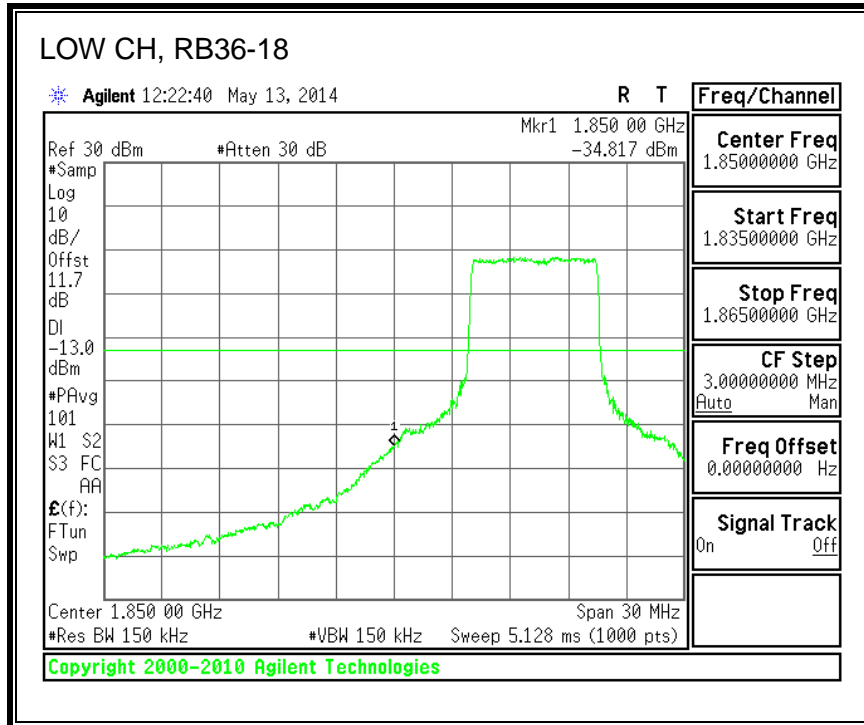


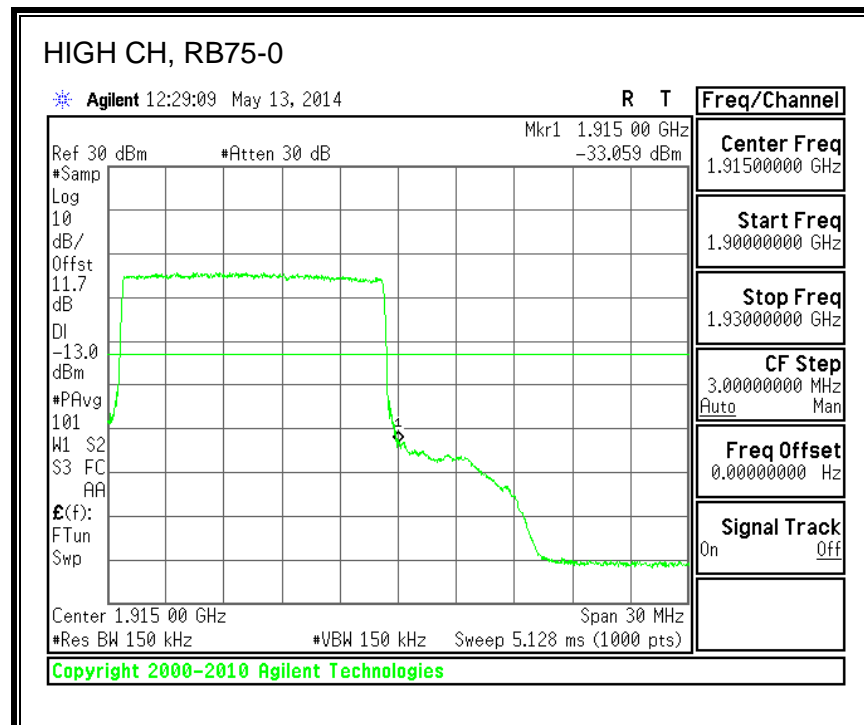
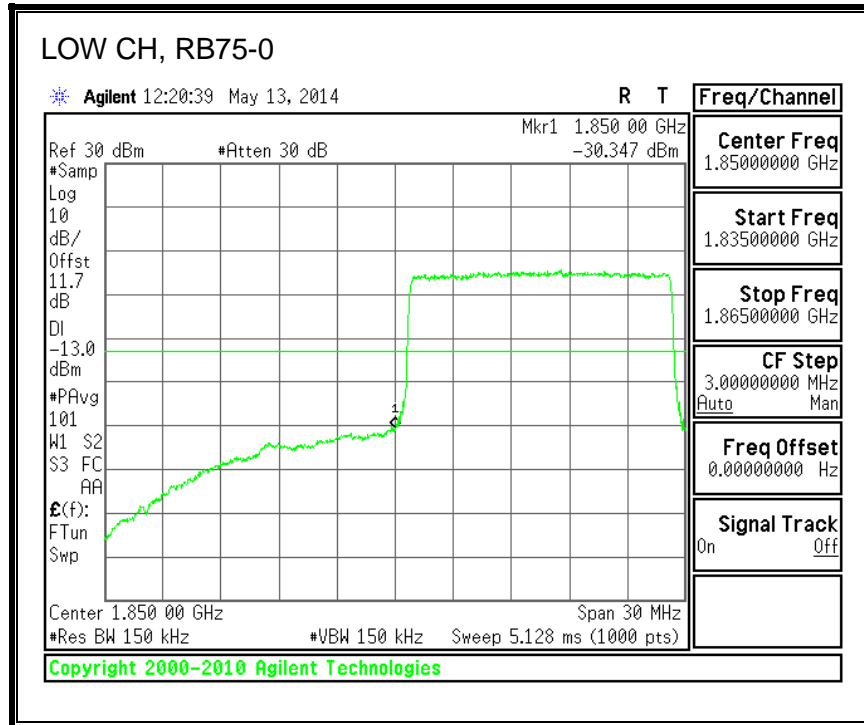


QPSK, (15.0 MHz BAND WIDTH)

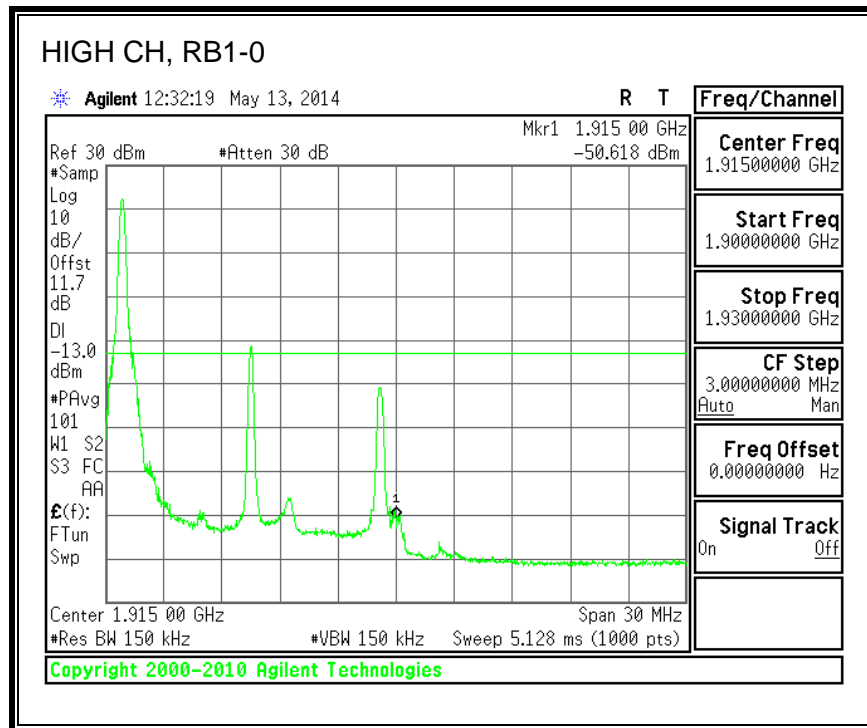
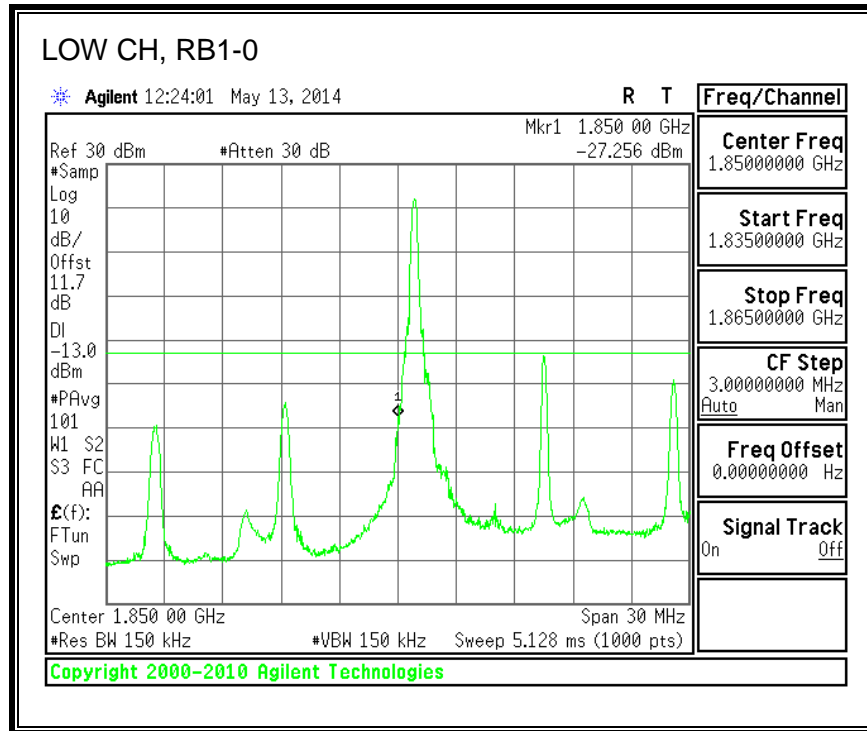


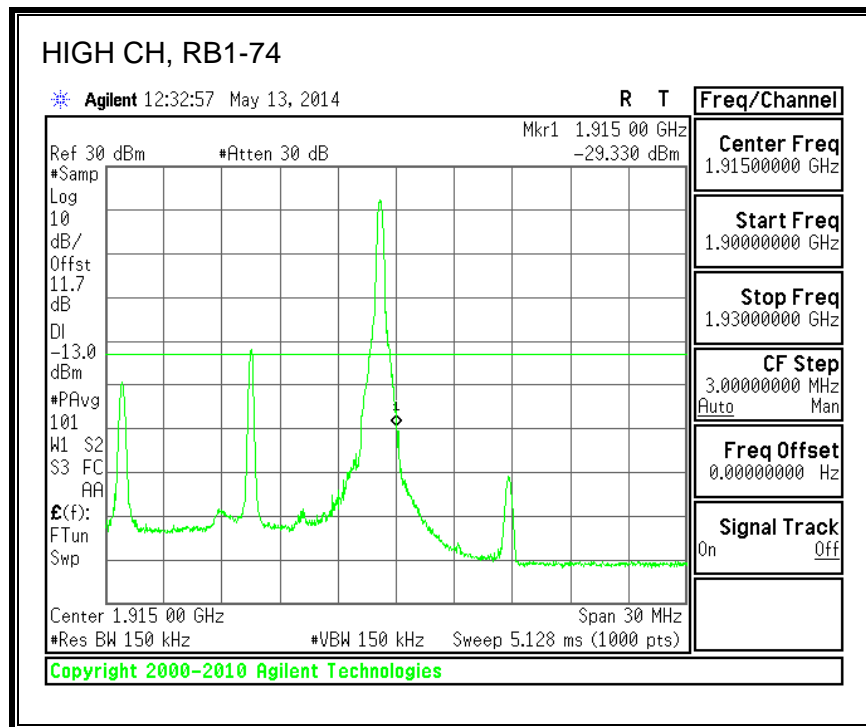
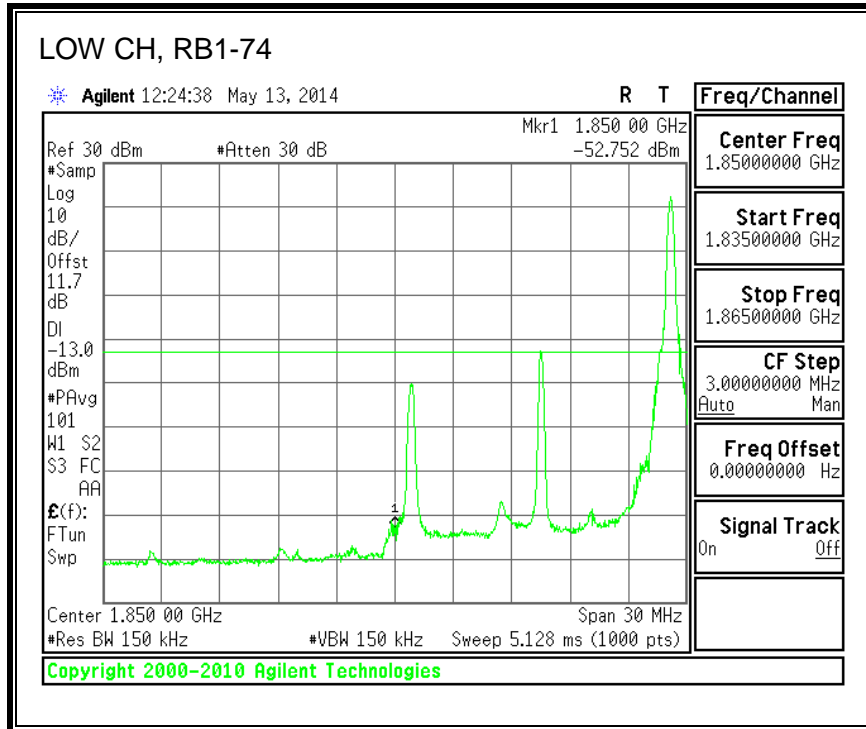


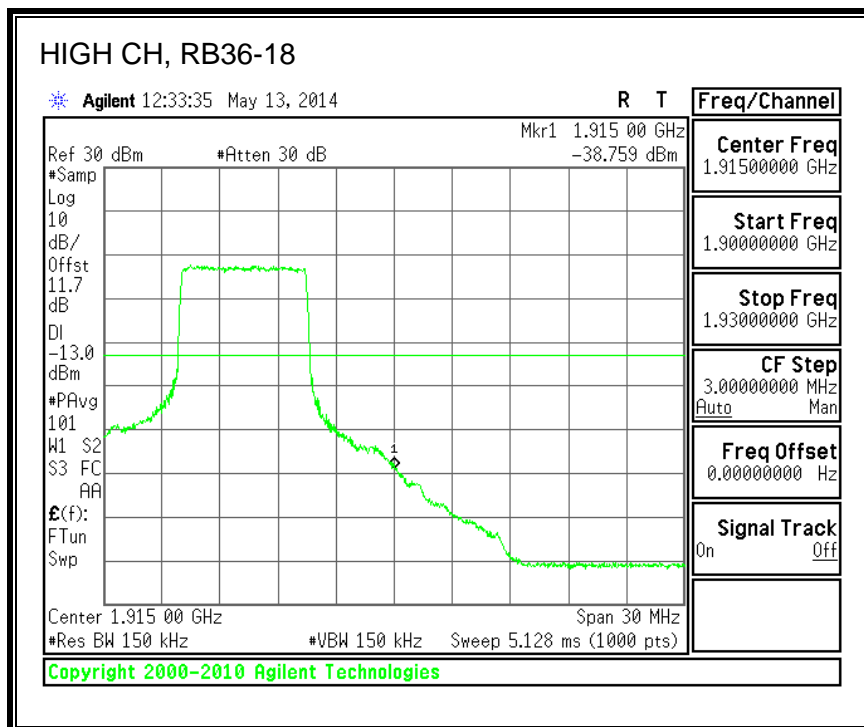
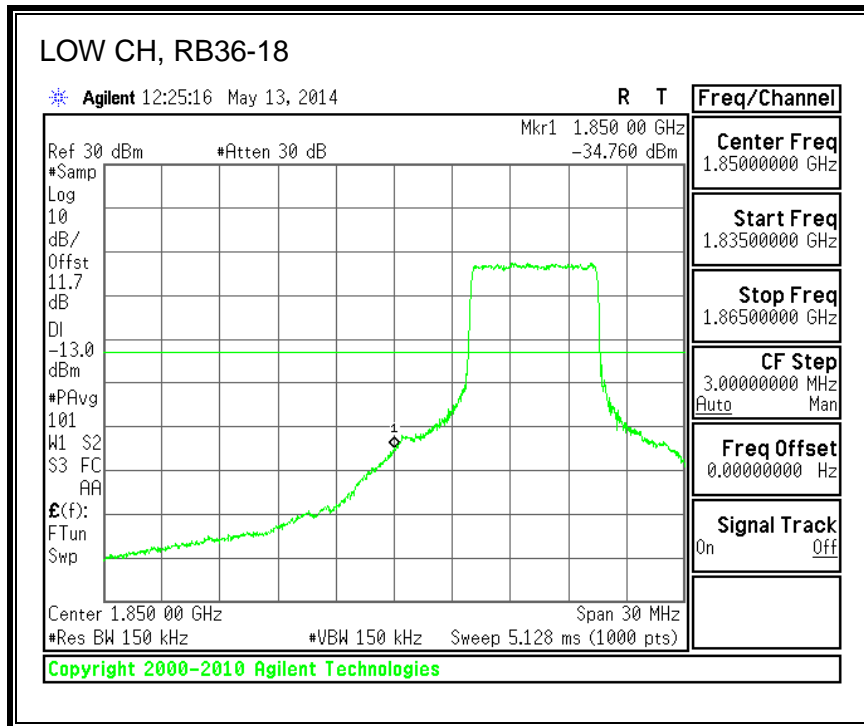


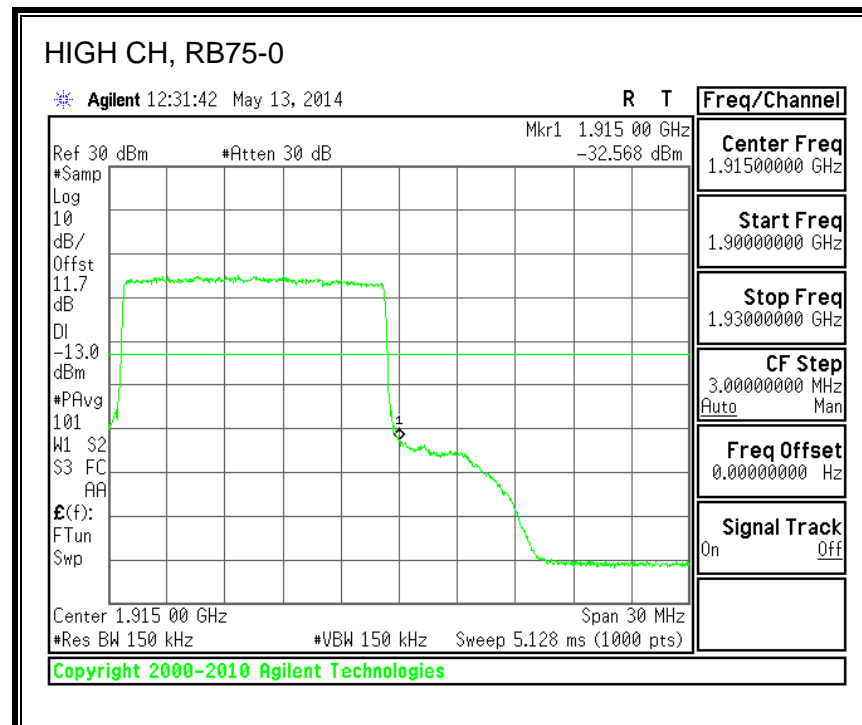
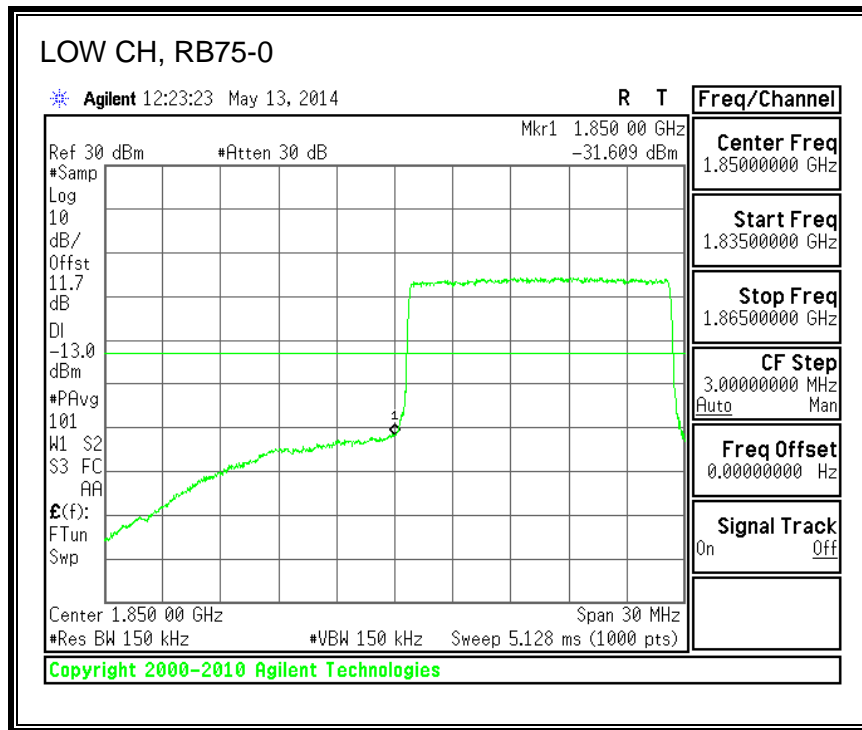


16QAM, (15.0 MHz BAND WIDTH)

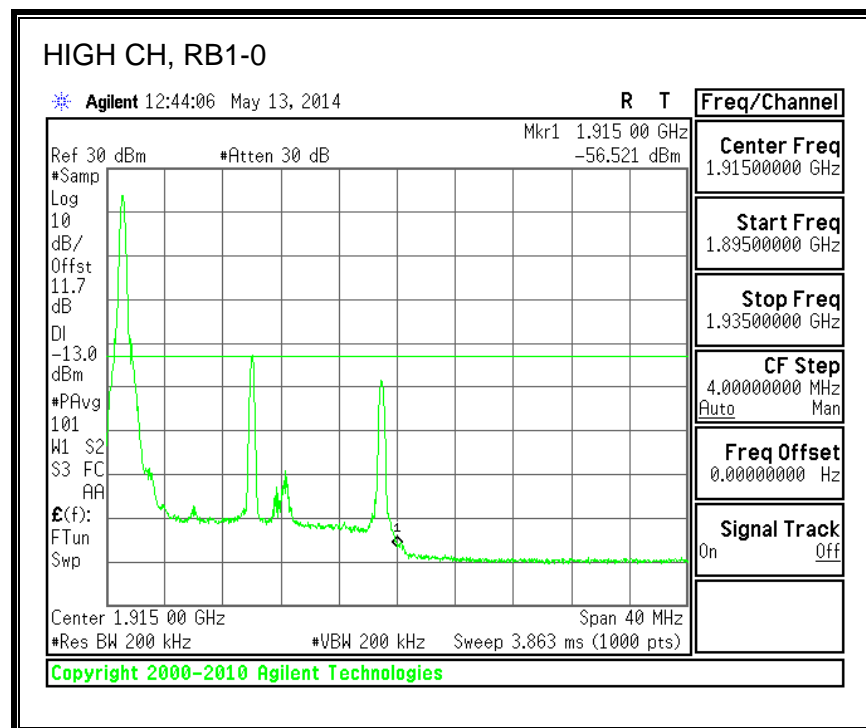
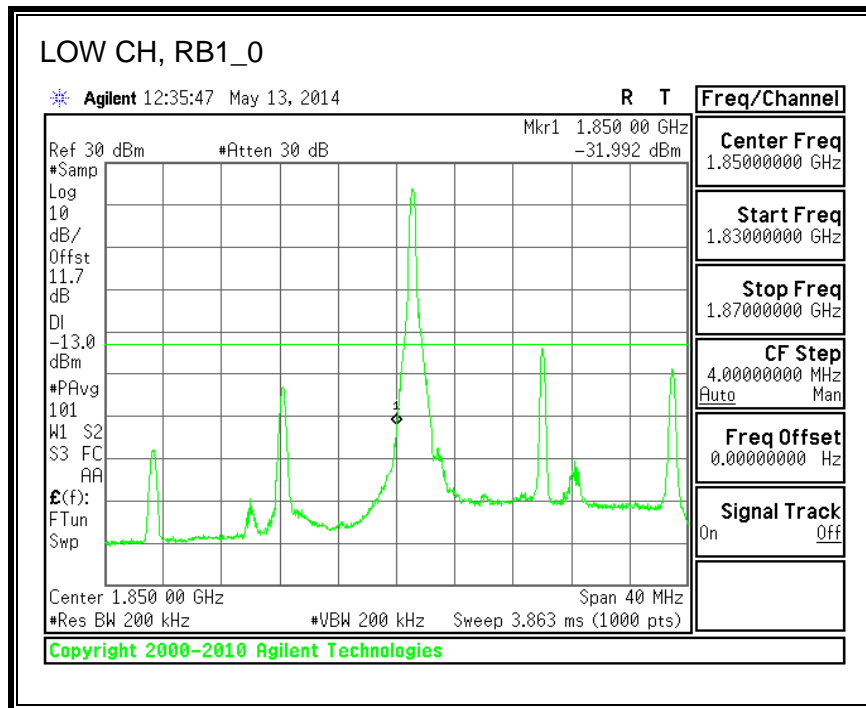


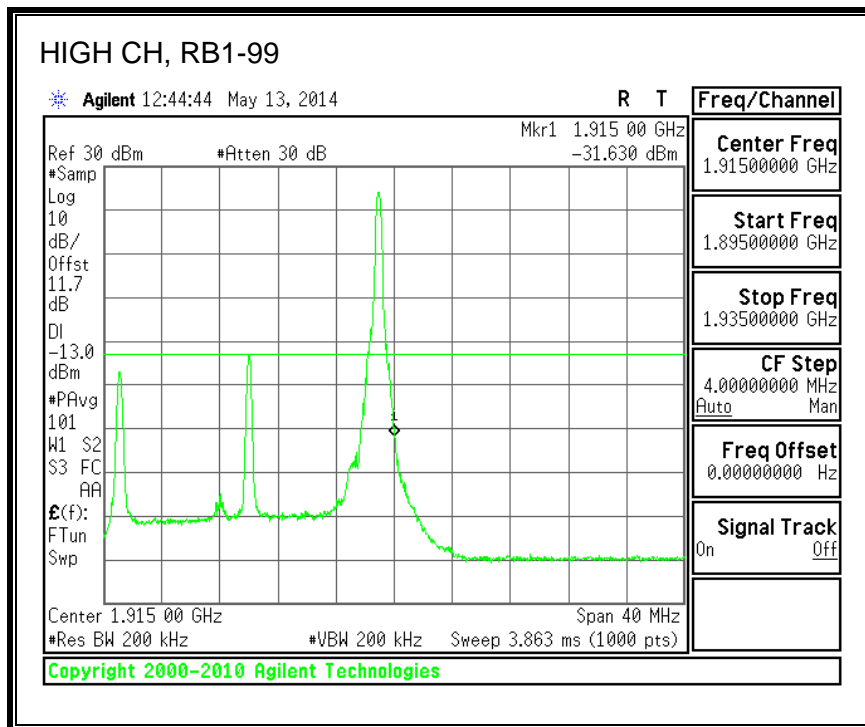
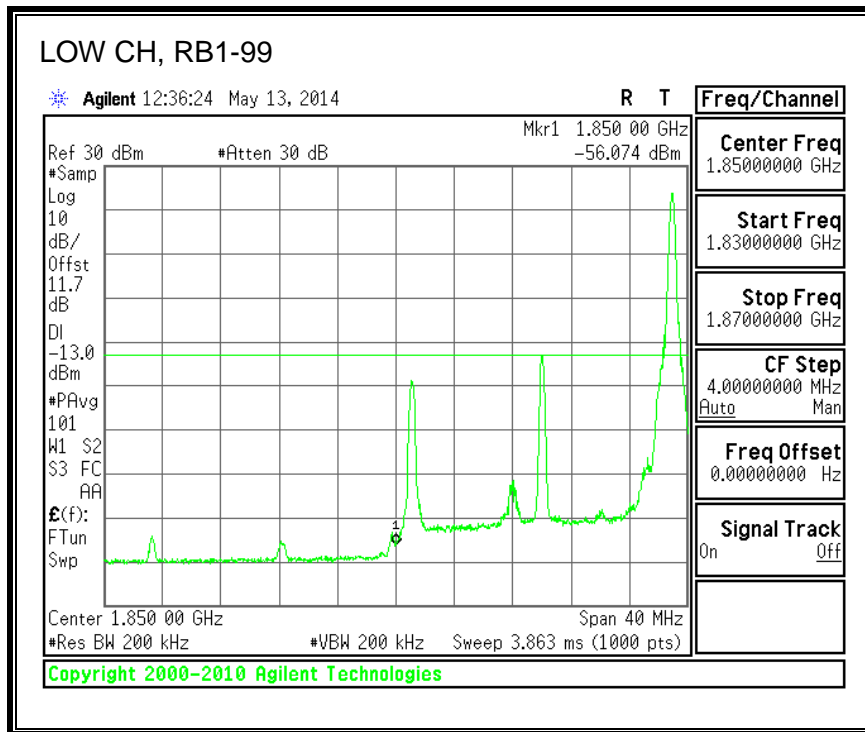


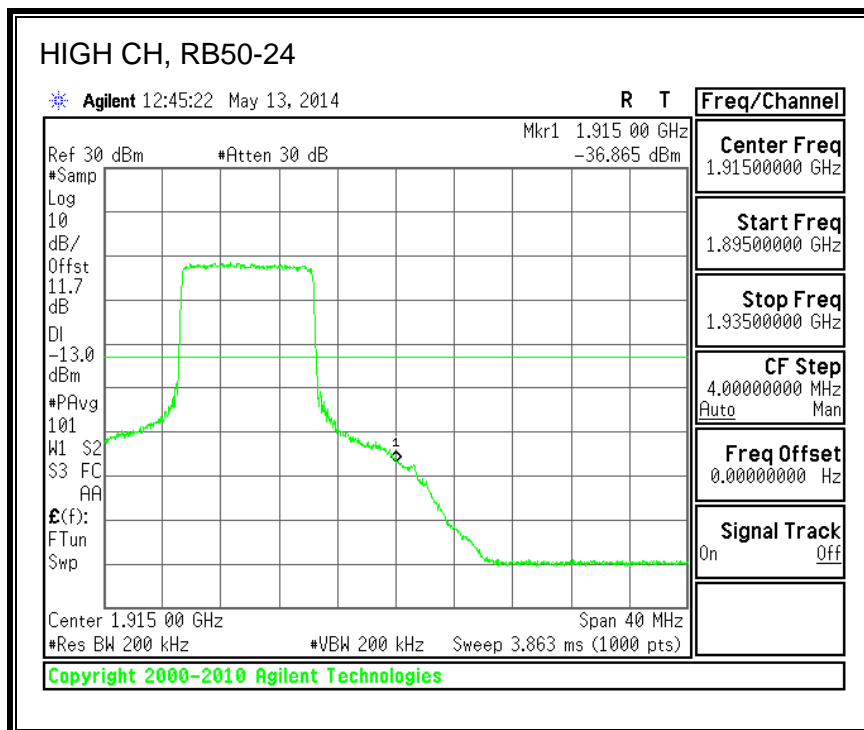
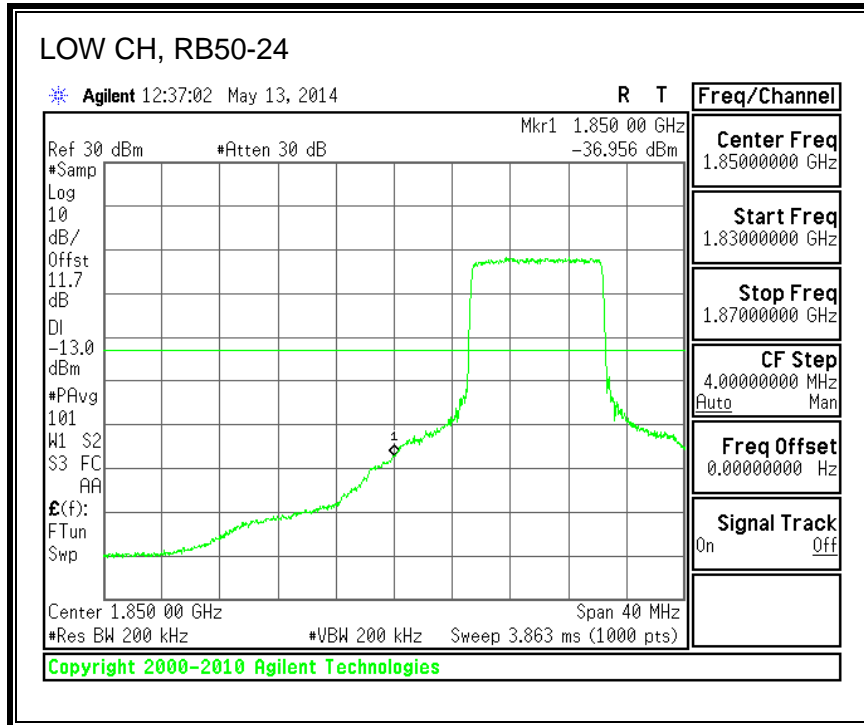


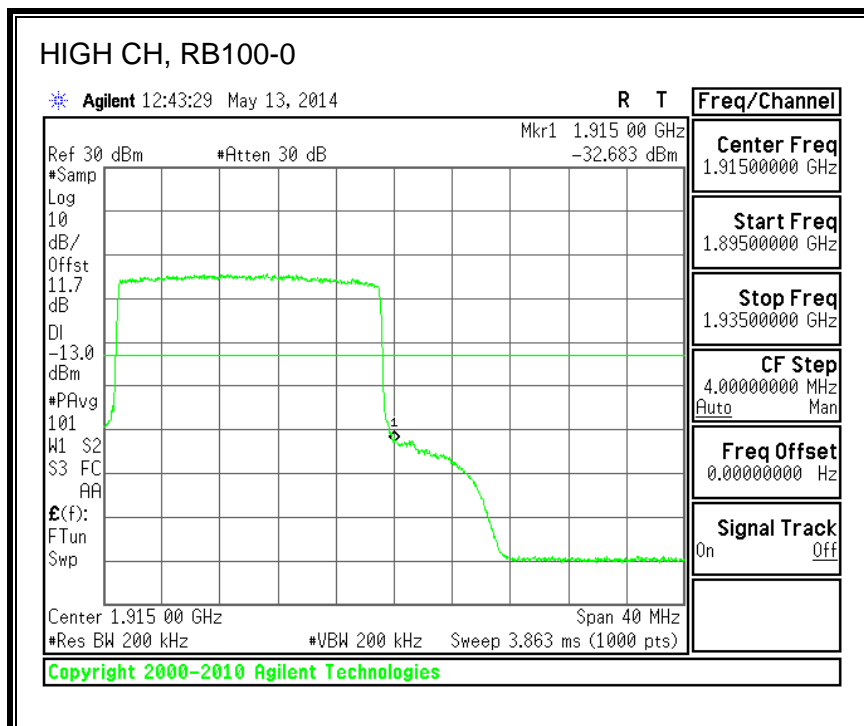
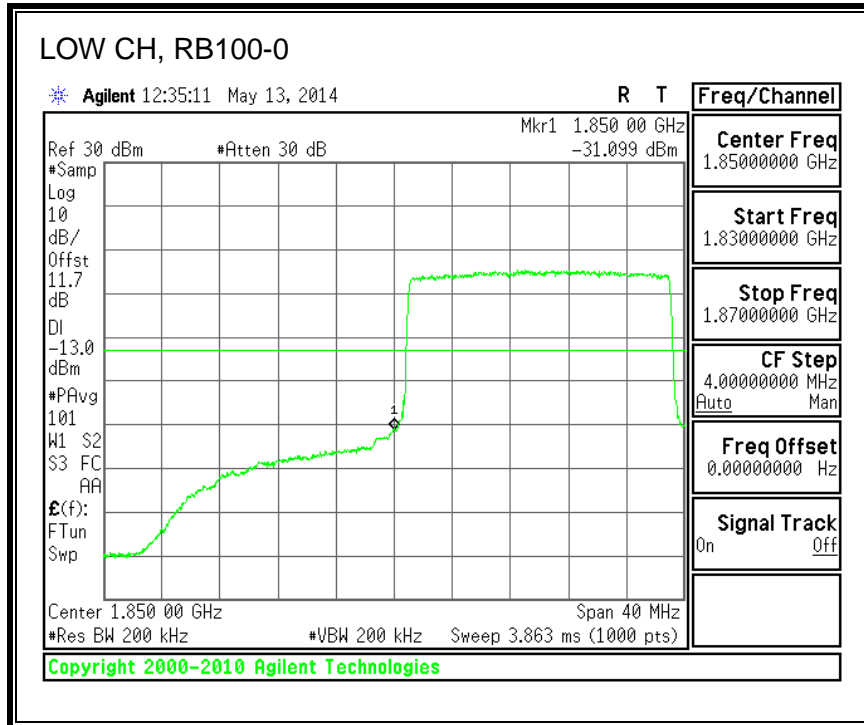


QPSK, (20.0 MHz BAND WIDTH)

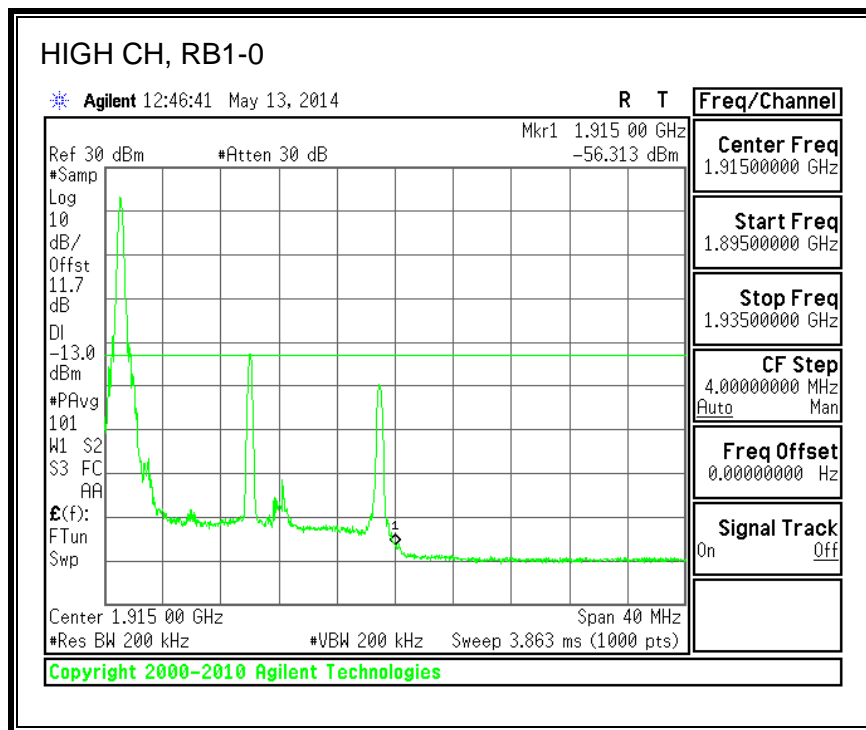
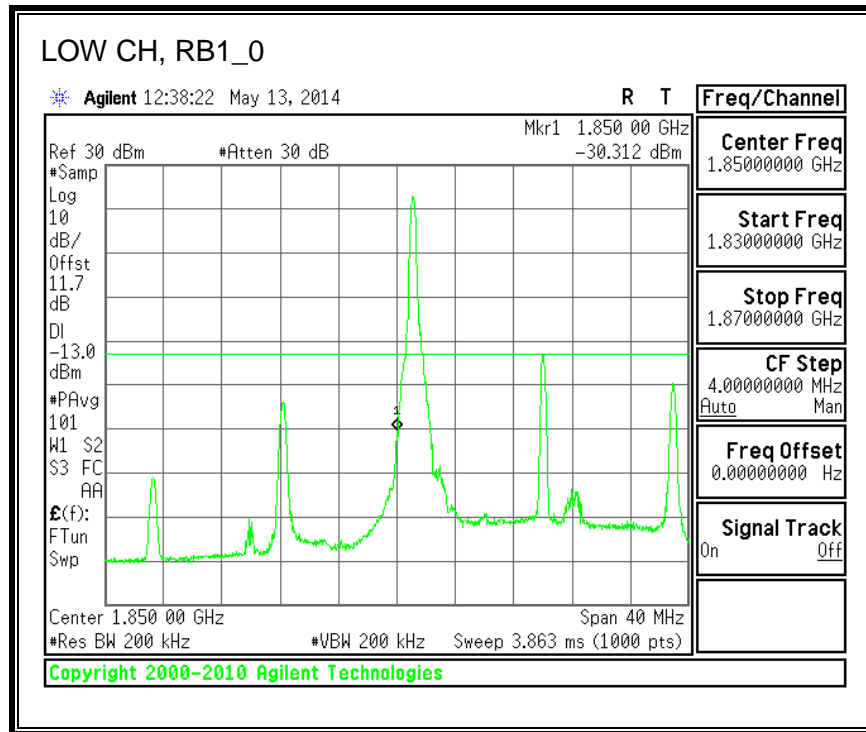


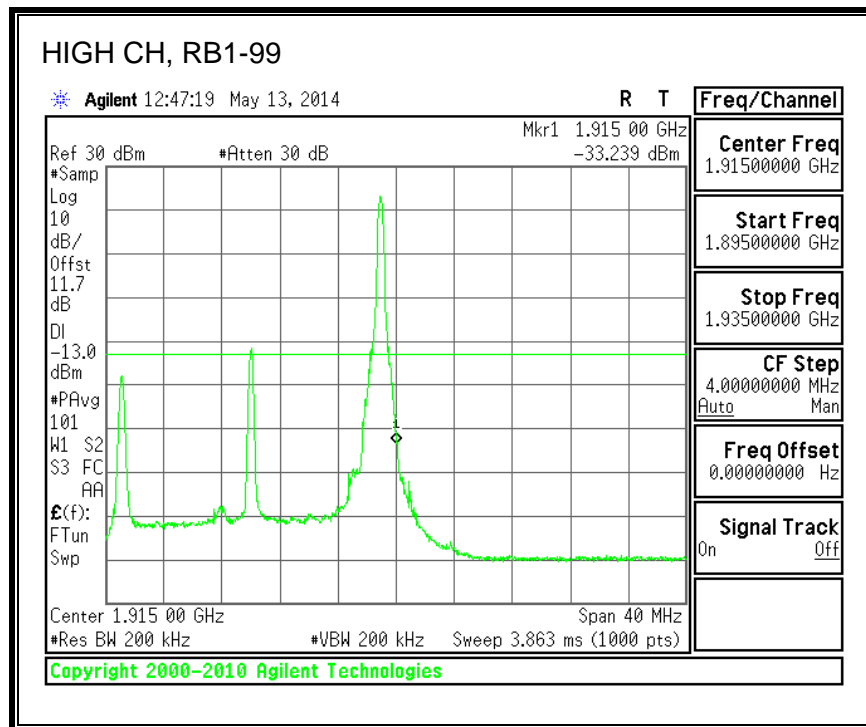
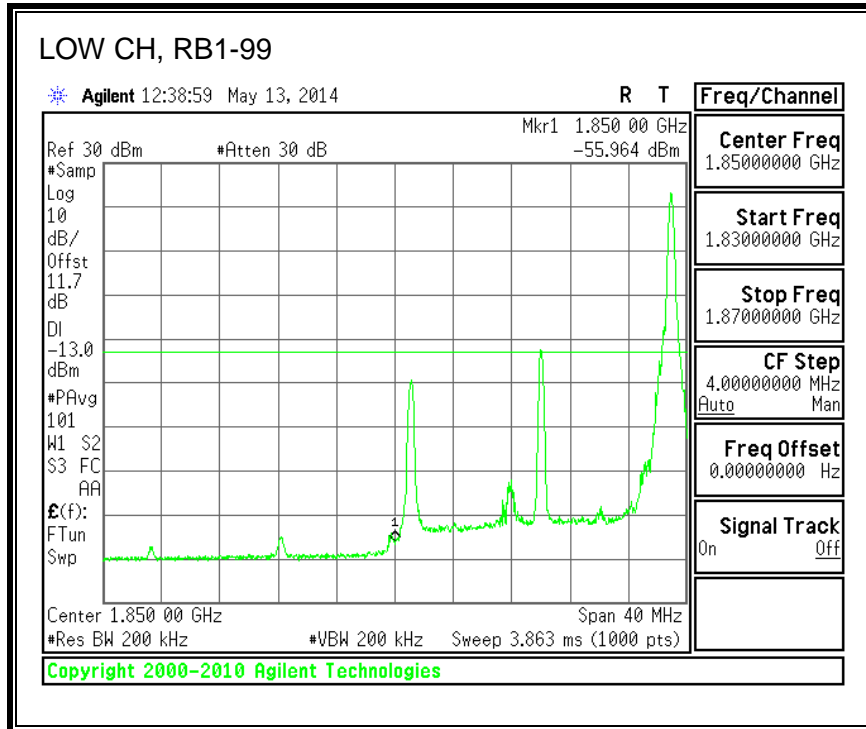


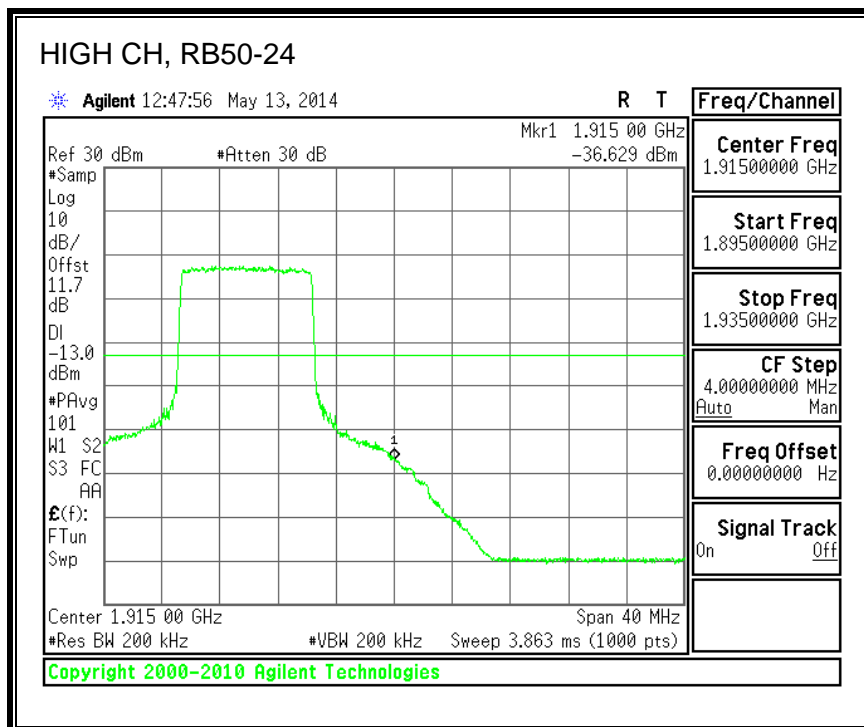
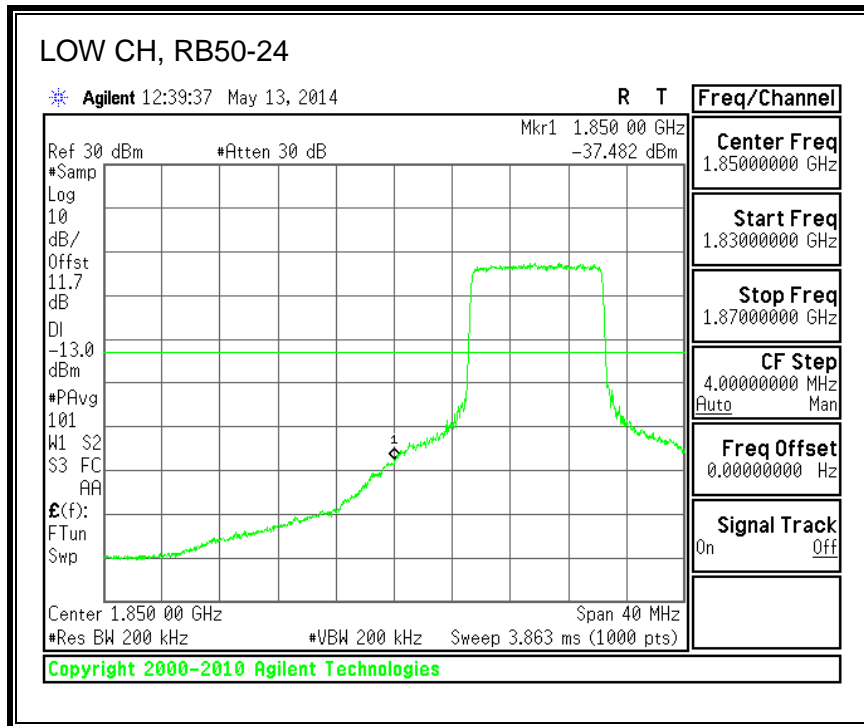


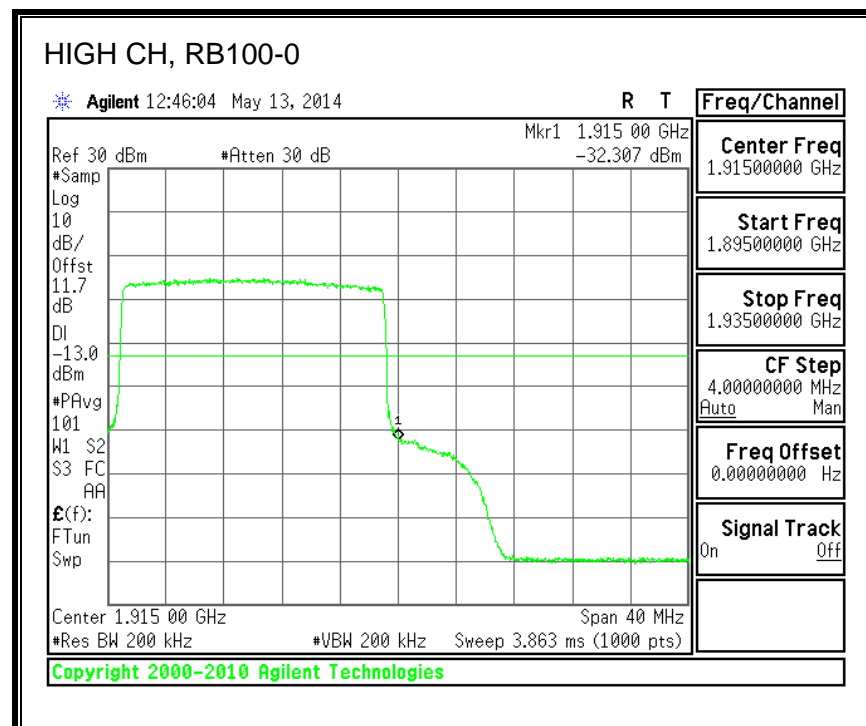
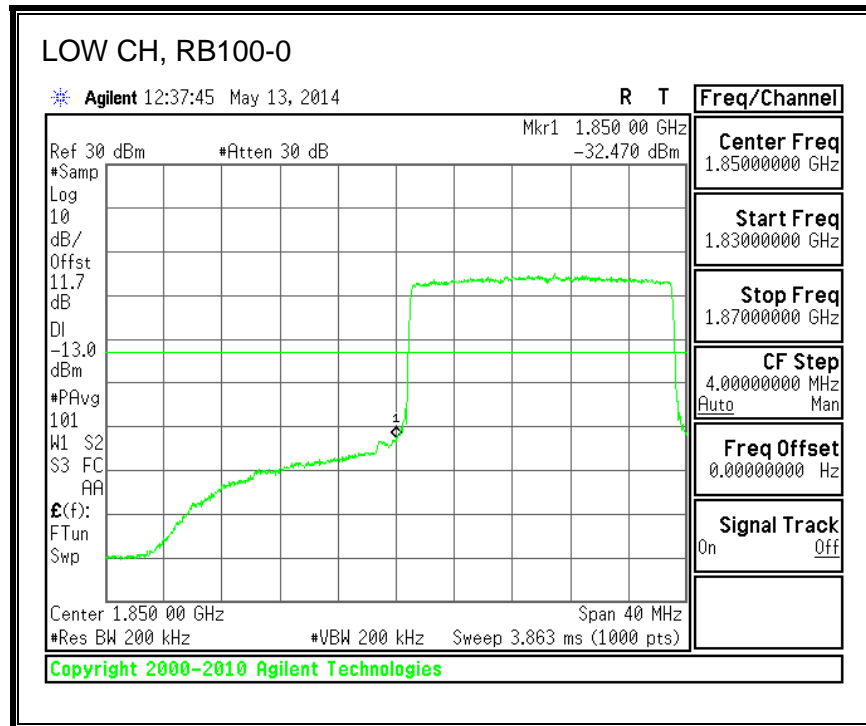


16QAM, (20.0 MHz BAND WIDTH)



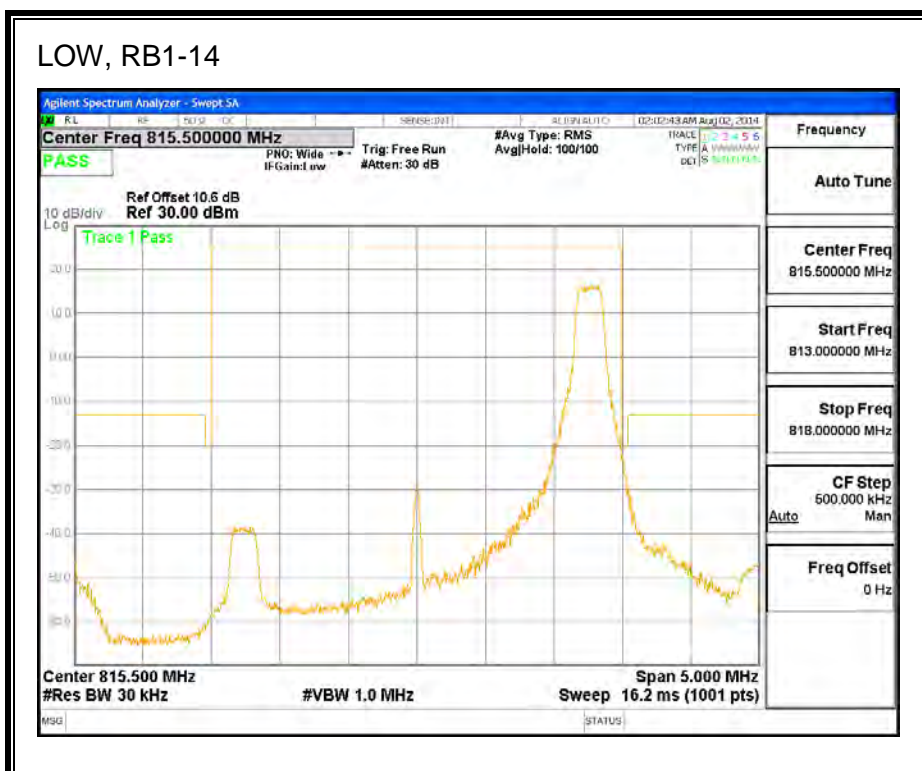
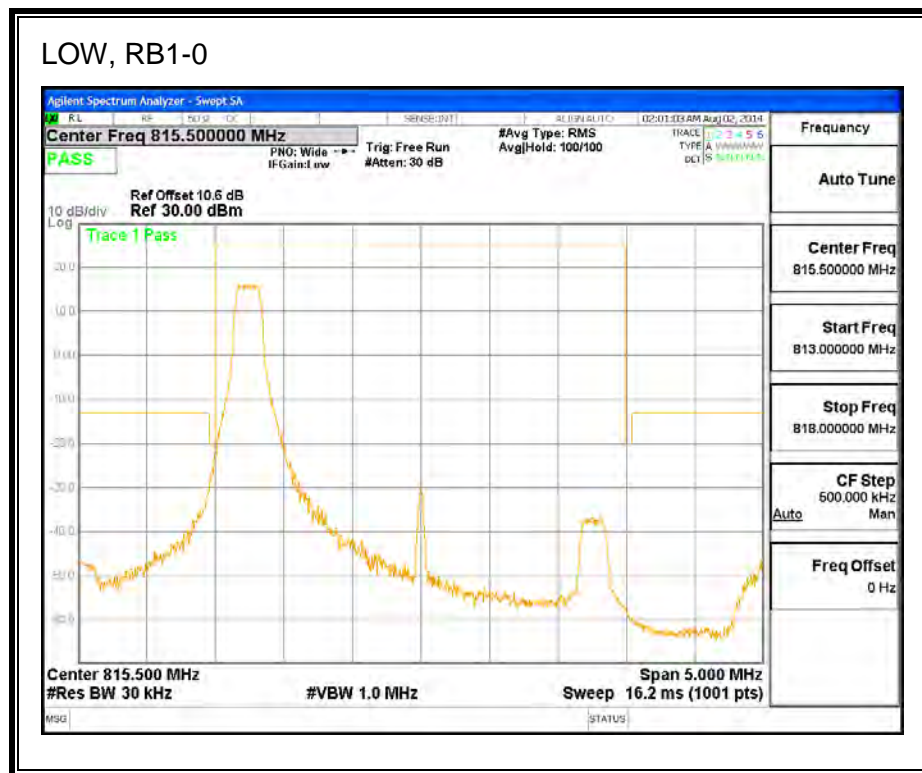






8.2.7. LTE BAND 26 EMISSION MASK

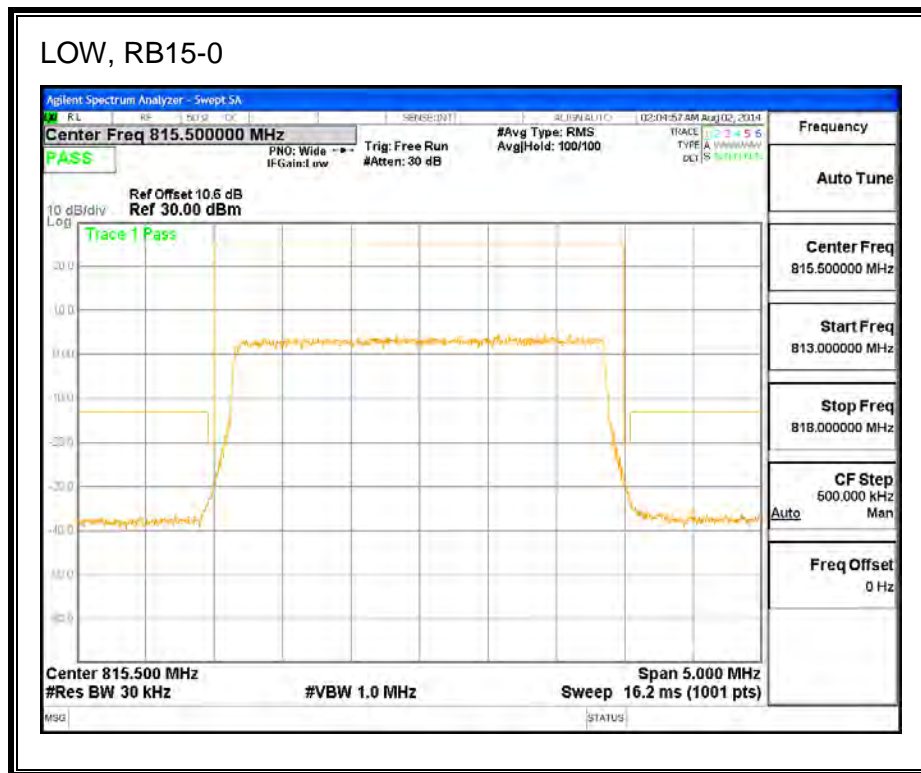
QPSK, (3.0 MHz BAND WIDTH)



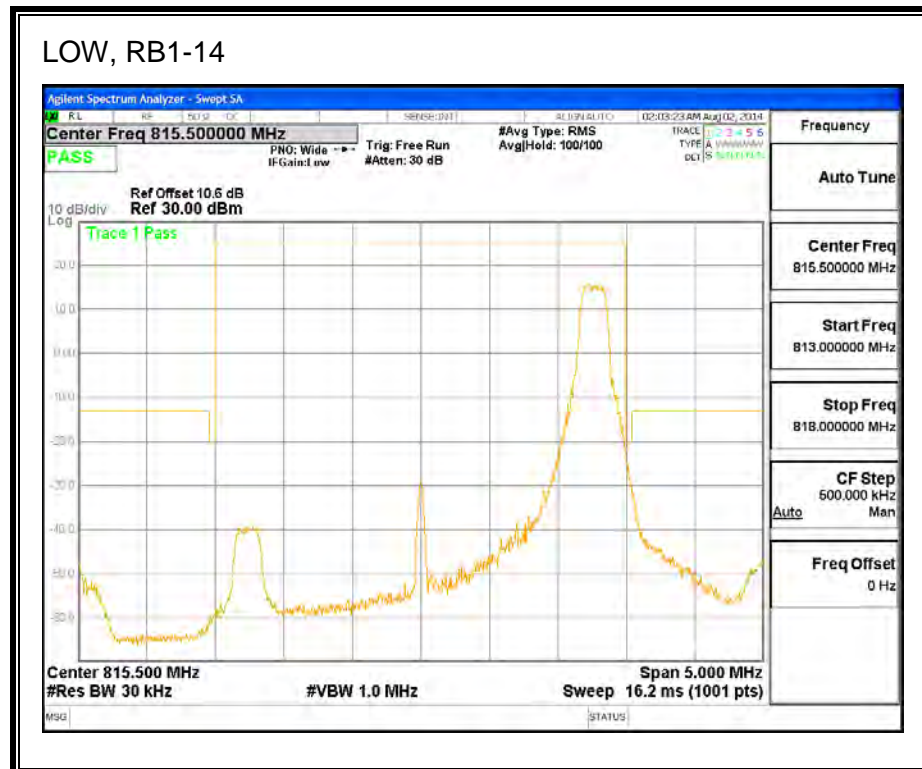
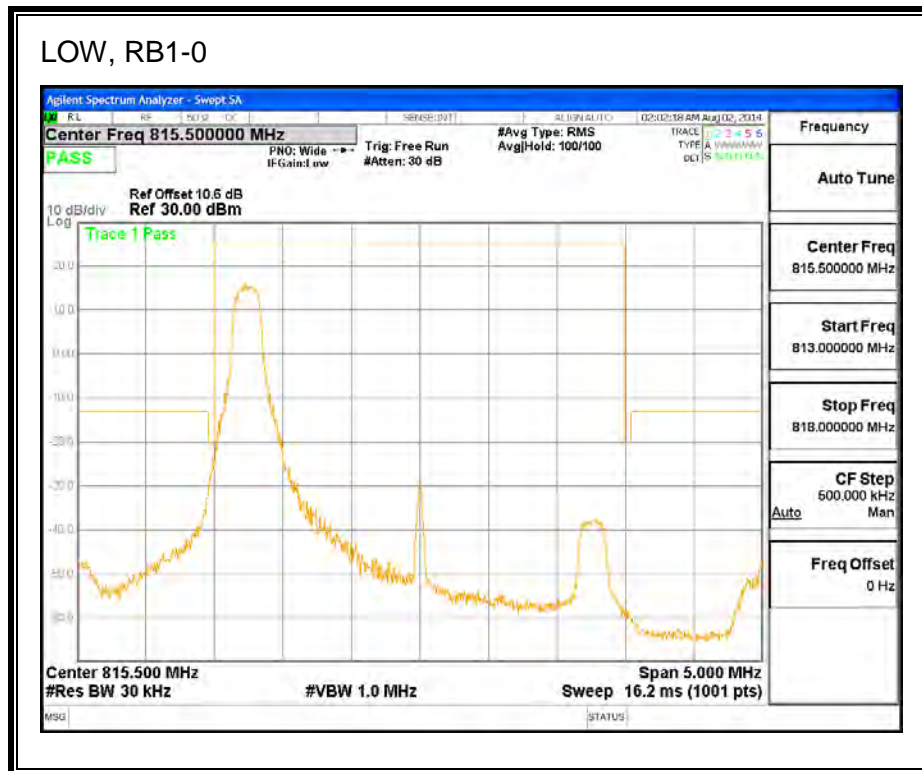
LOW, RB8-4



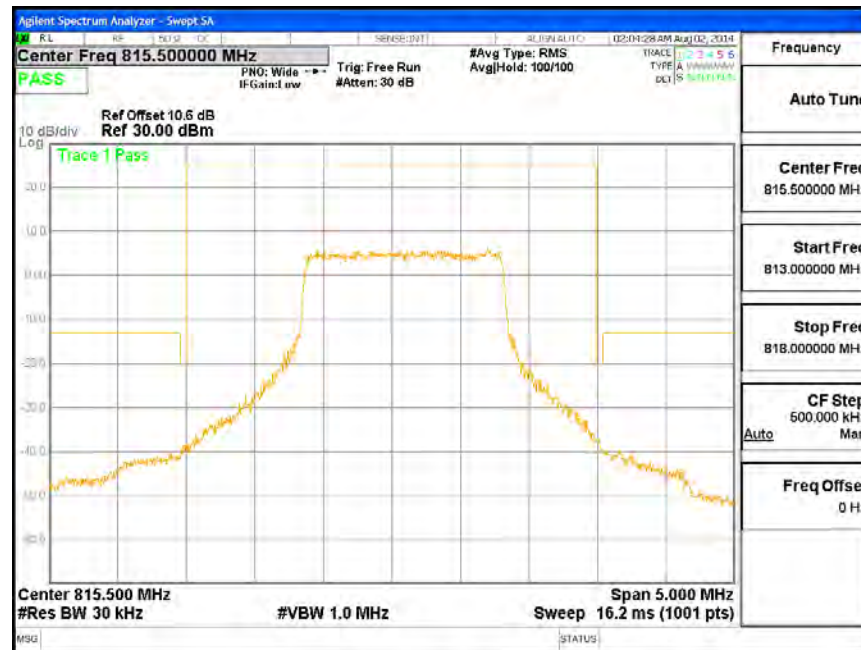
LOW, RB15-0



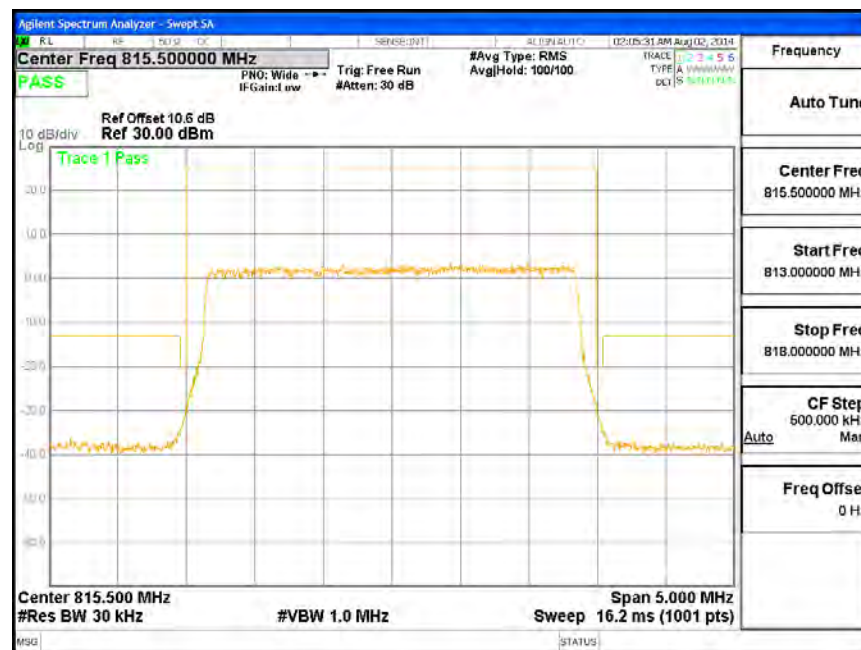
16QAM, (3.0 MHz BAND WIDTH)



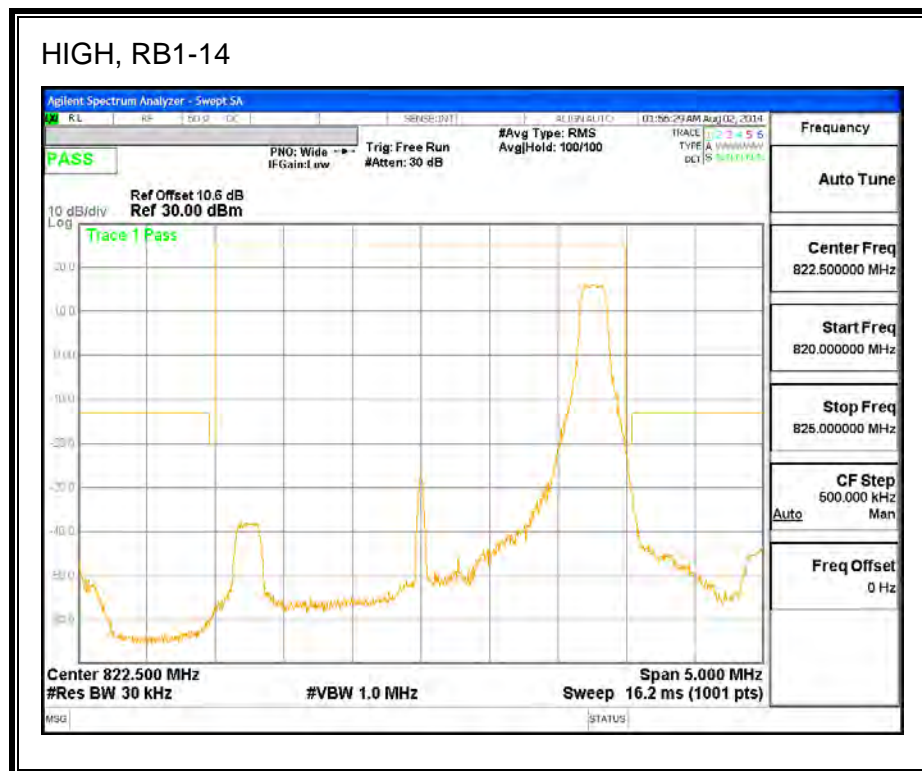
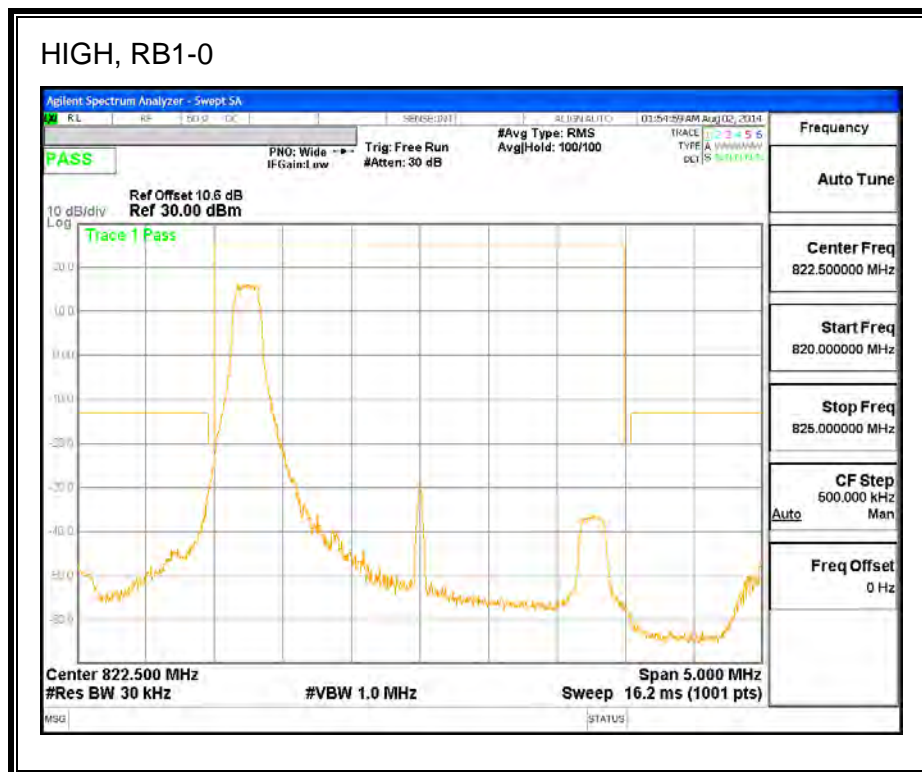
LOW, RB8-4



LOW, RB15-0



QPSK, (3.0 MHz BAND WIDTH)



HIGH, RB8-4

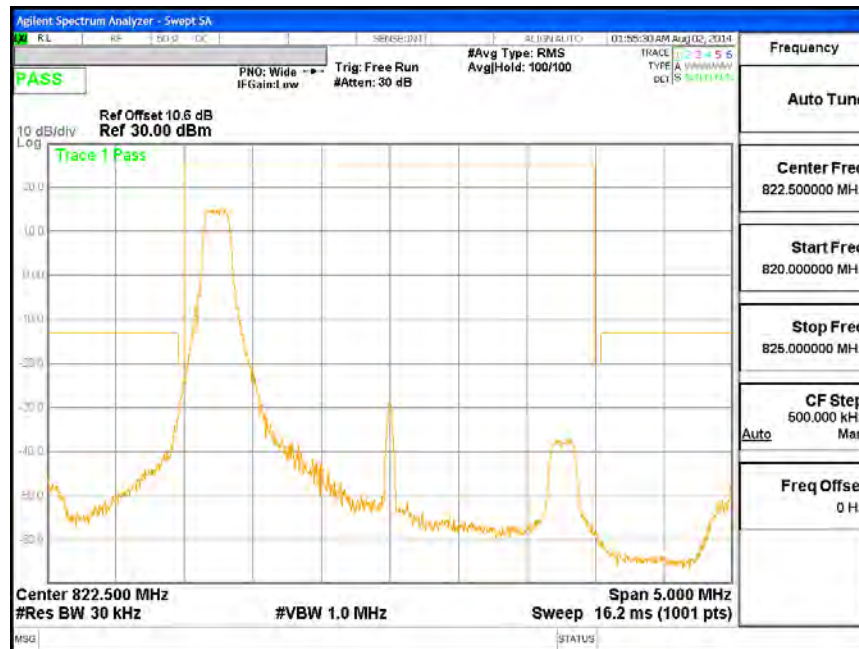


HIGH, RB15-0

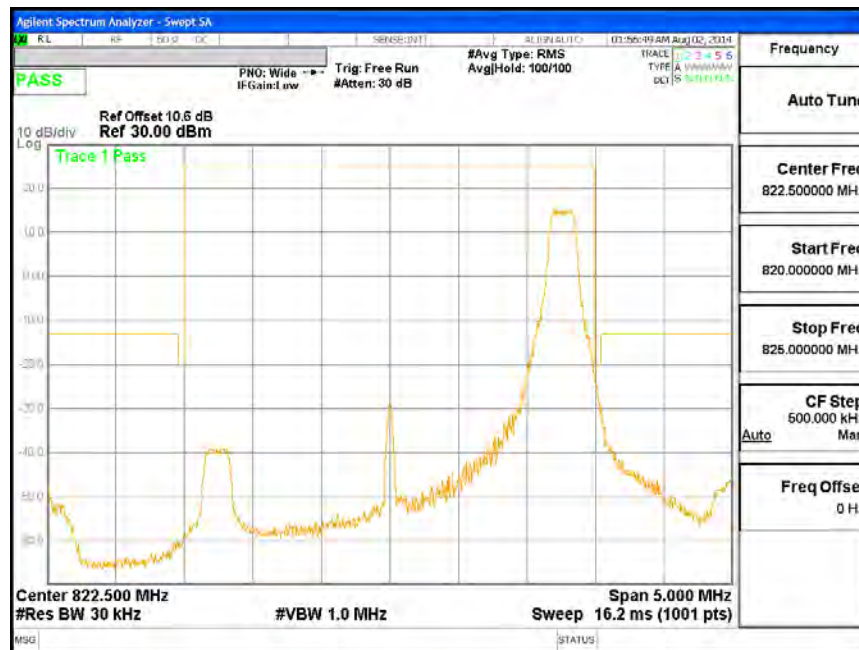


16QAM, (3.0 MHz BAND WIDTH)

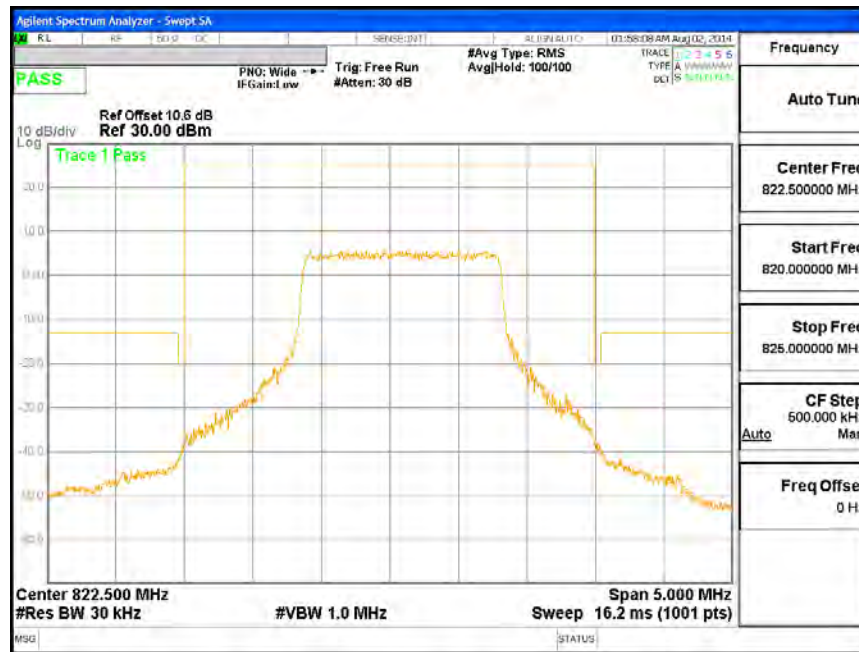
HIGH, RB1-0



HIGH, RB1-14



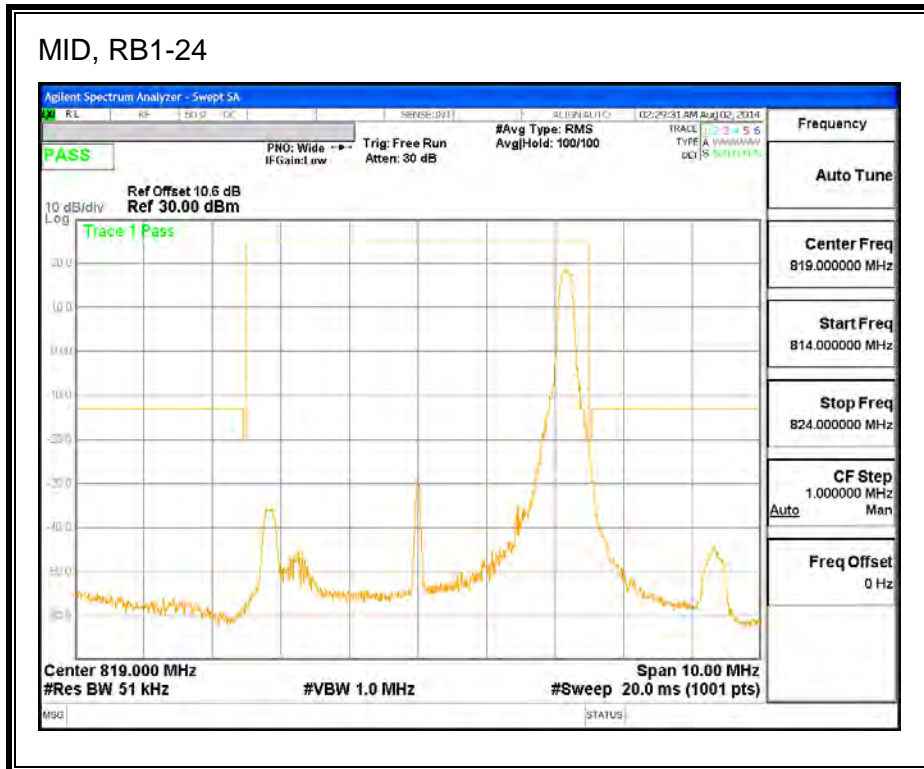
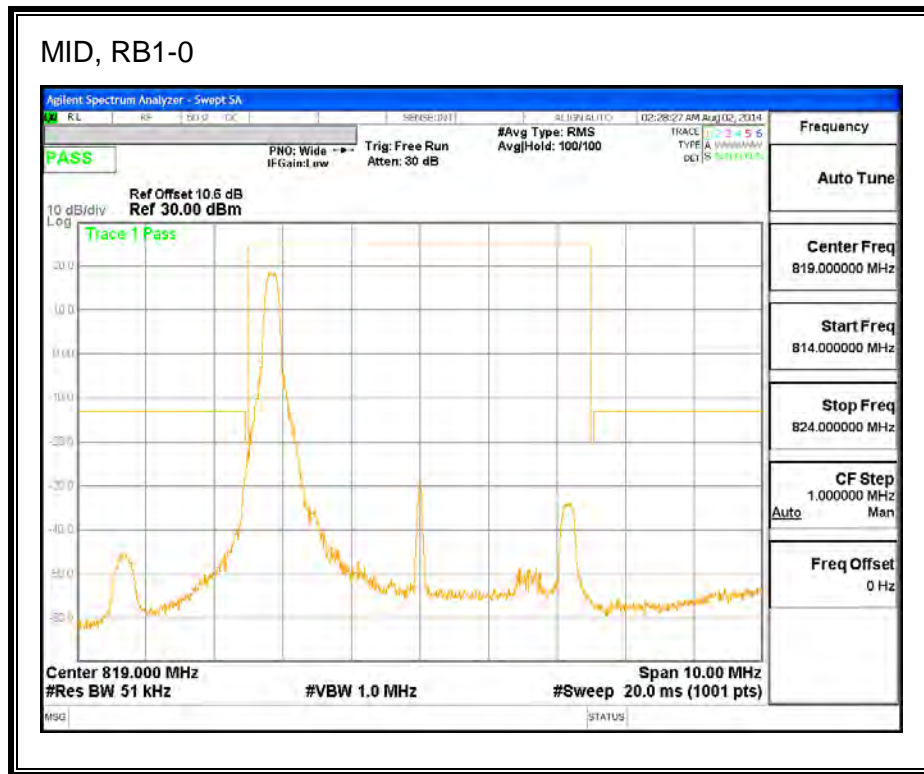
HIGH, RB8-4



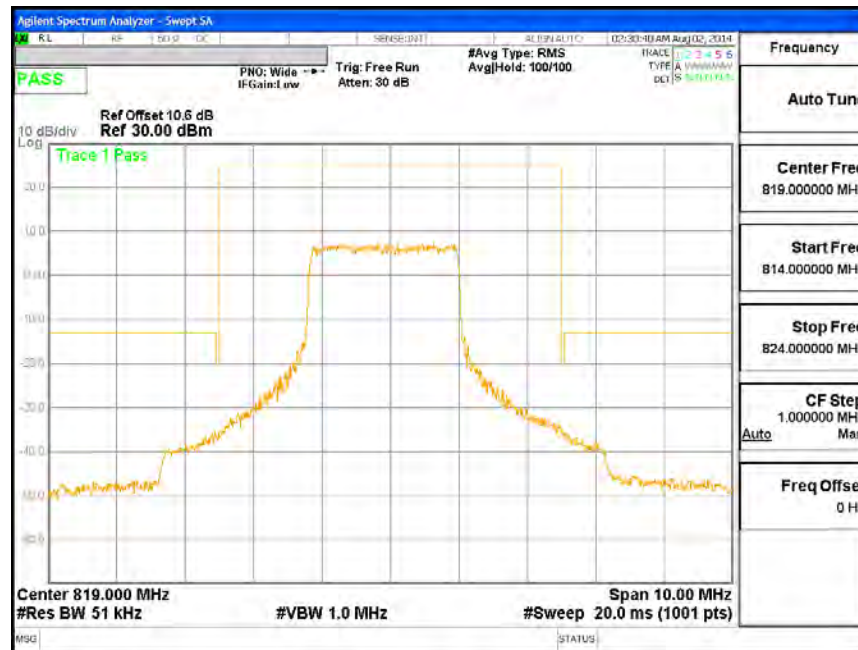
HIGH, RB15-0



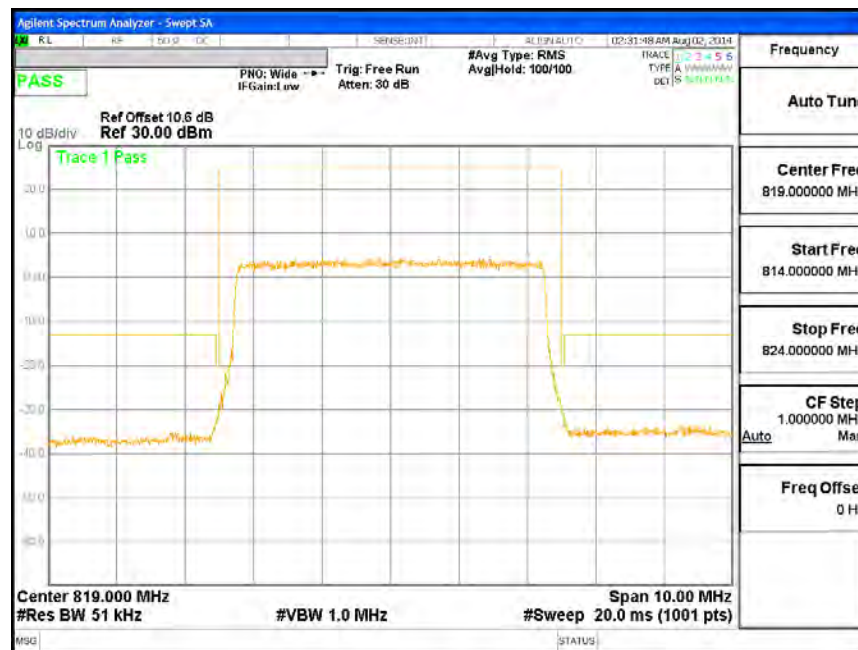
QPSK, (5.0 MHz BAND WIDTH)



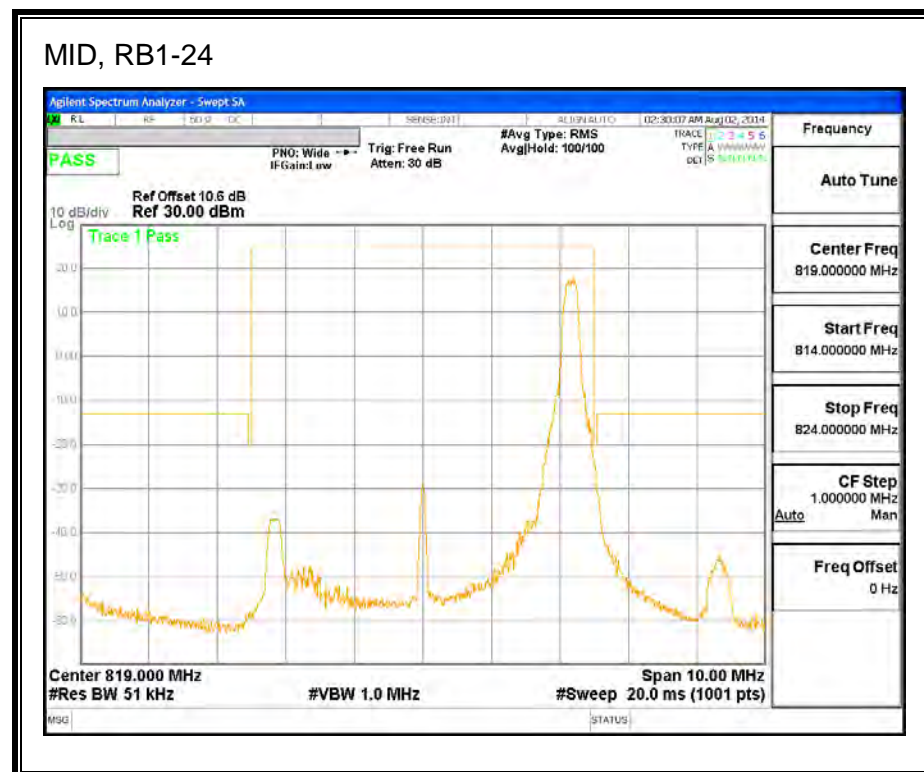
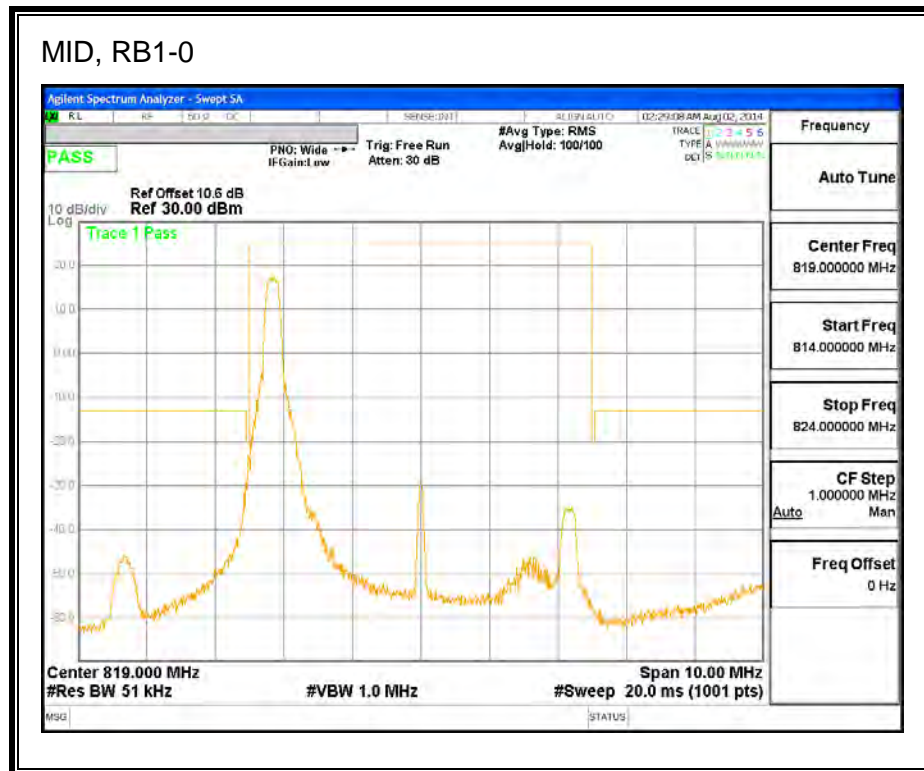
MID, RB12-6



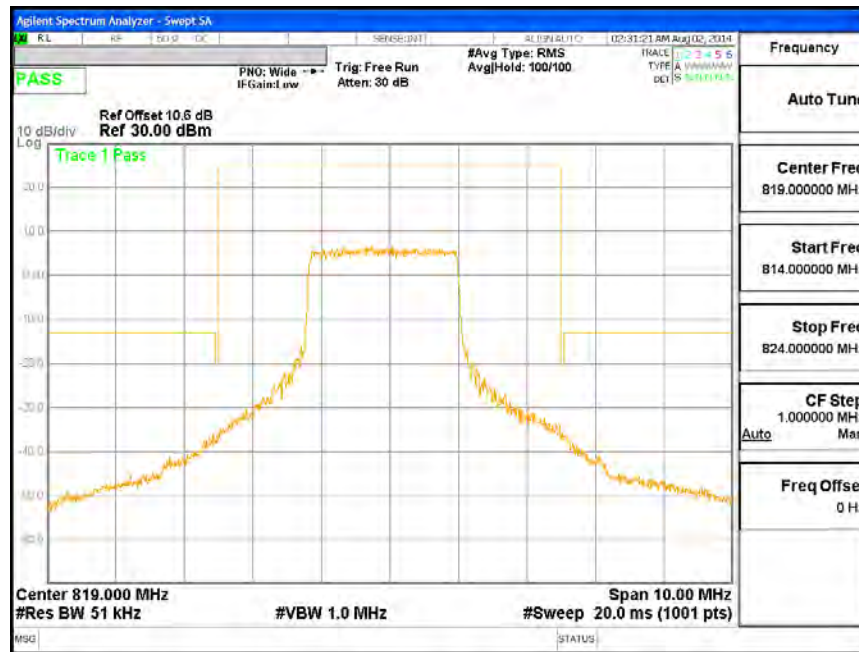
MID, RB25-0



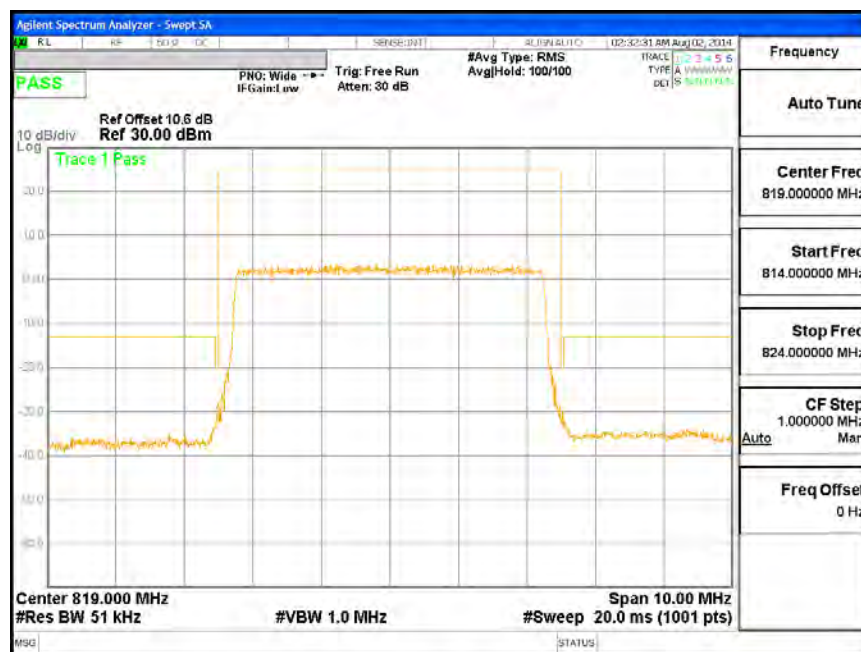
16QAM, (5.0 MHz BAND WIDTH)



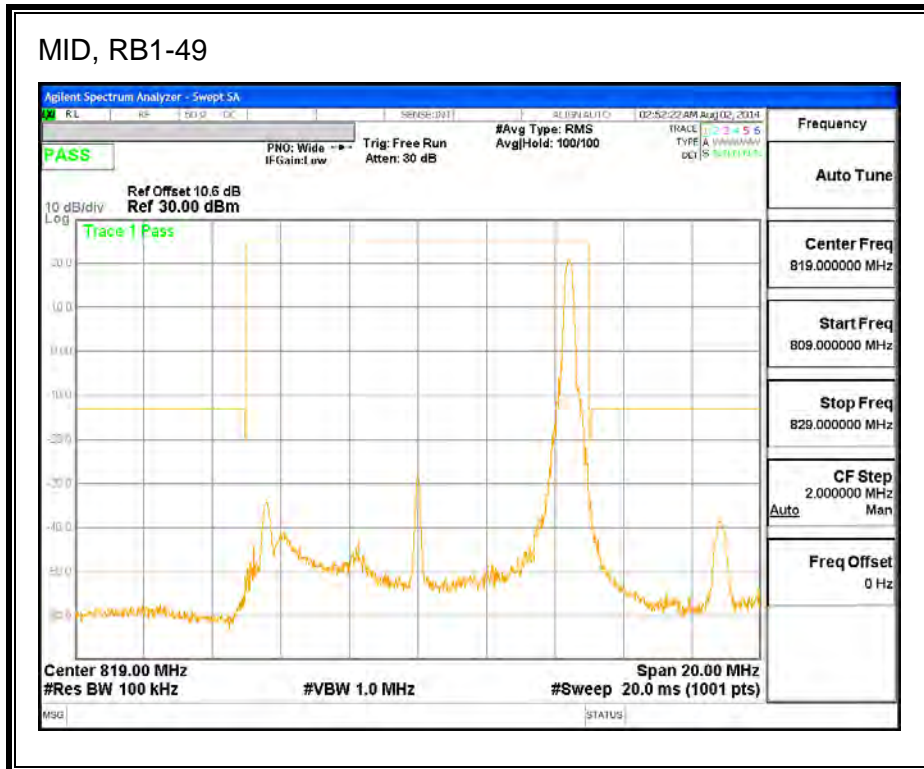
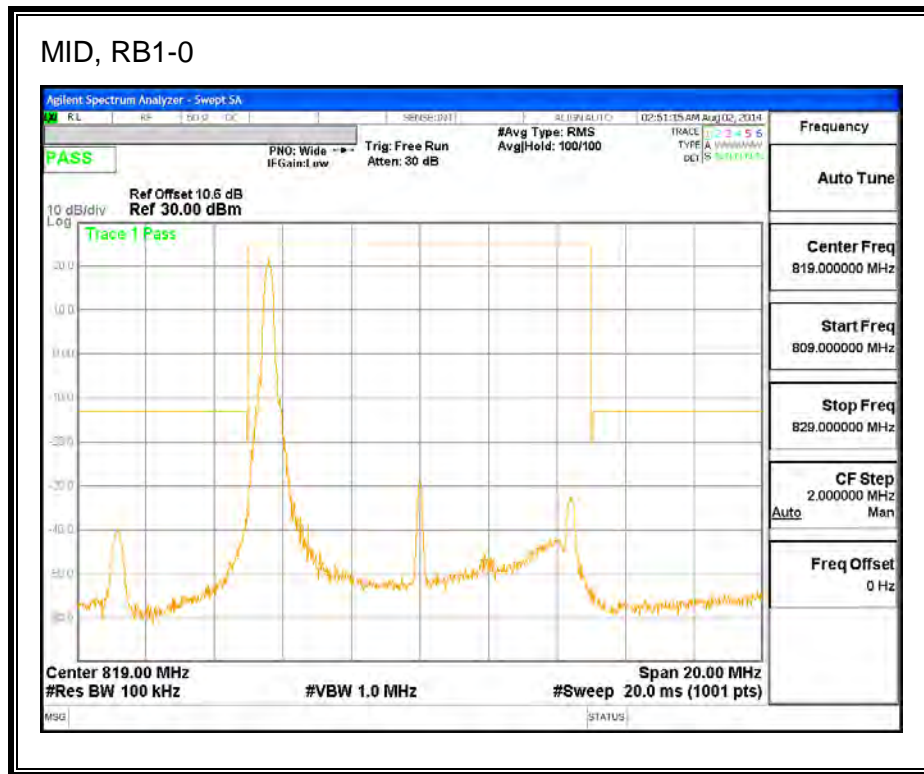
MID, RB12-6



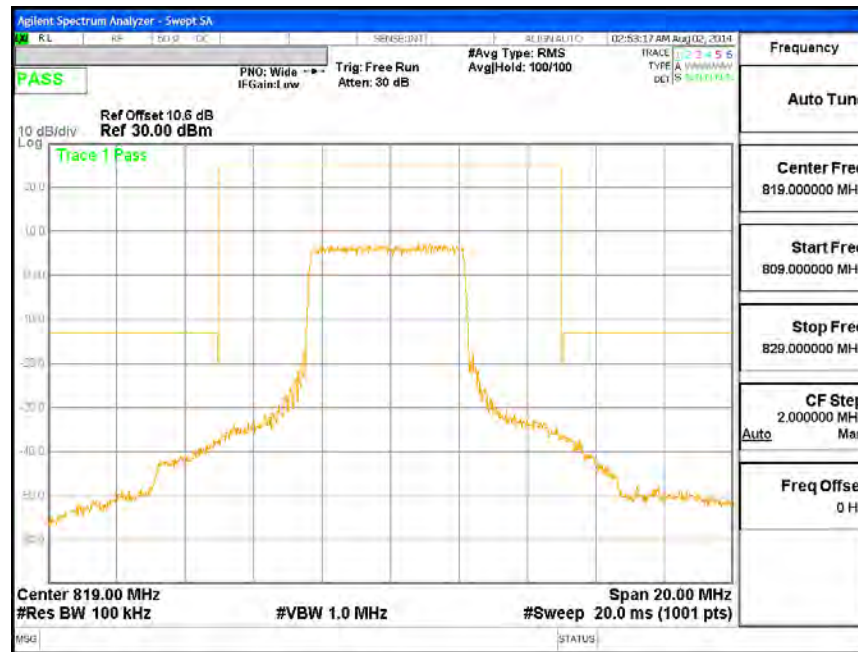
MID, RB25-0



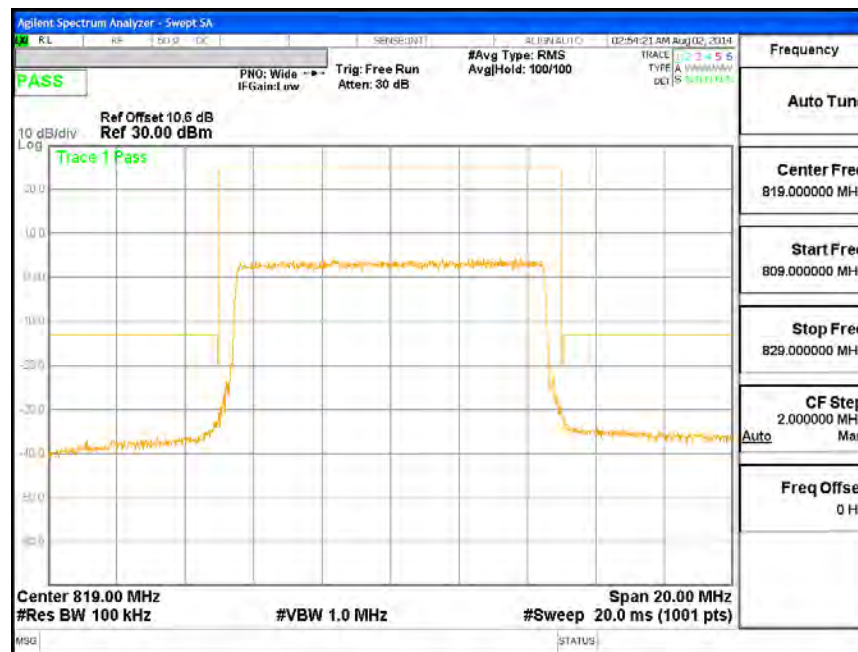
QPSK, (10.0 MHz BAND WIDTH)



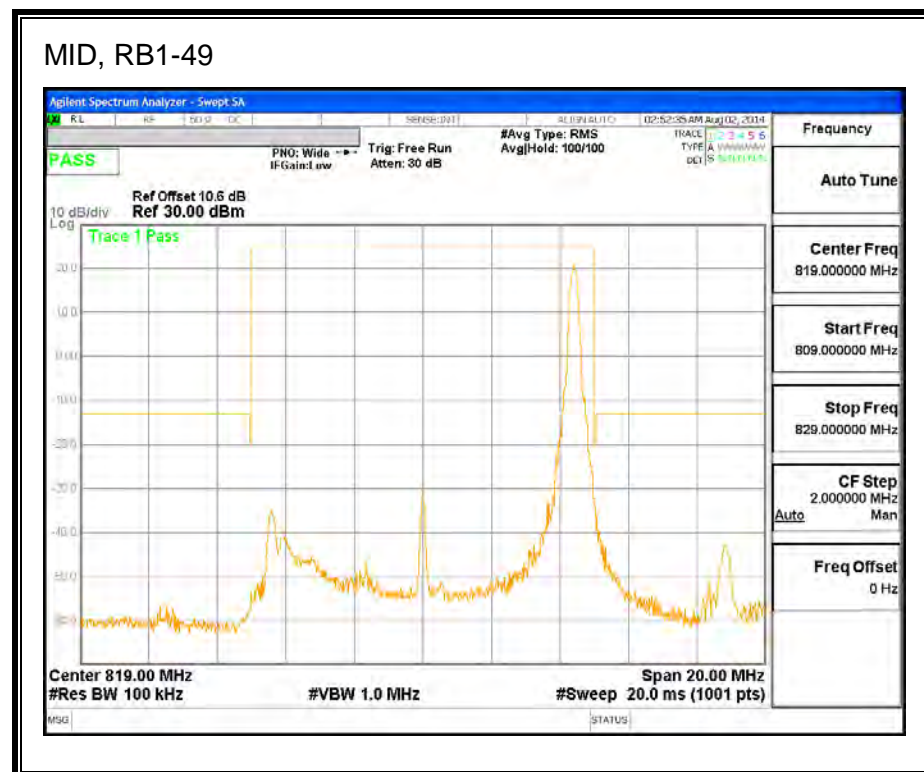
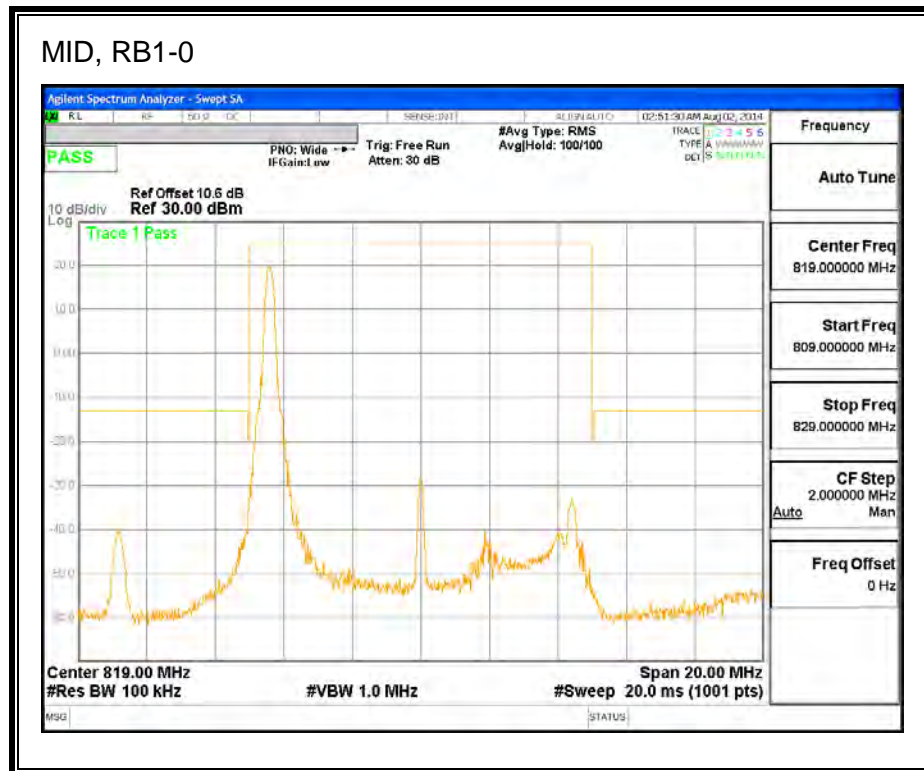
MID, RB25-12

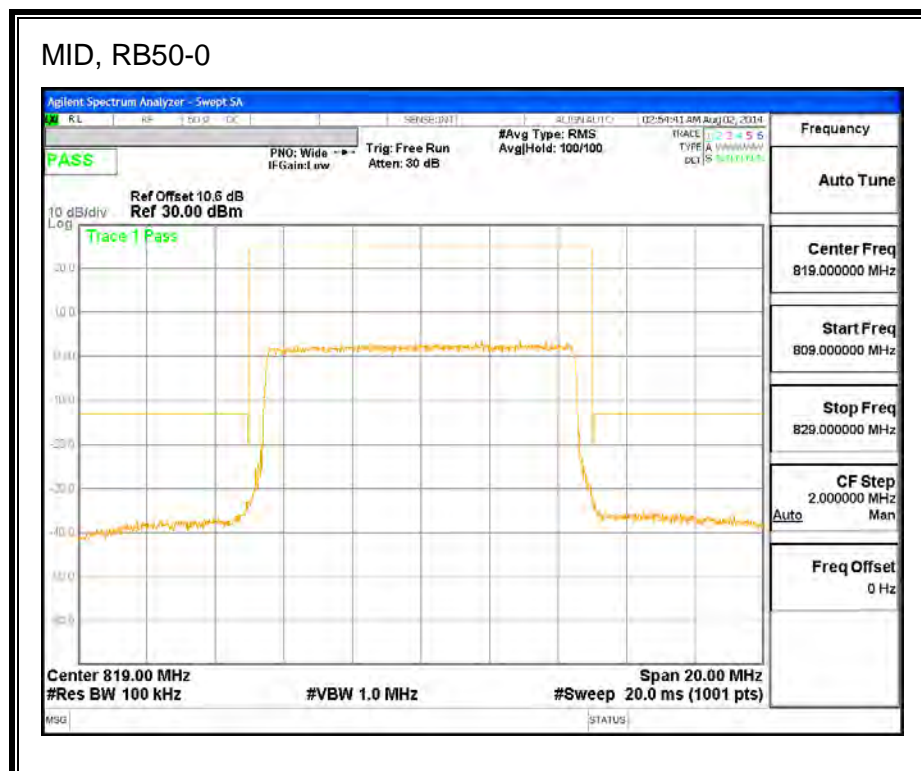


MID, RB50-0



16QAM, (10.0 MHz BAND WIDTH)





8.3. OUT OF BAND EMISSIONS

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.

TEST PROCEDURE FOR RSS-199

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

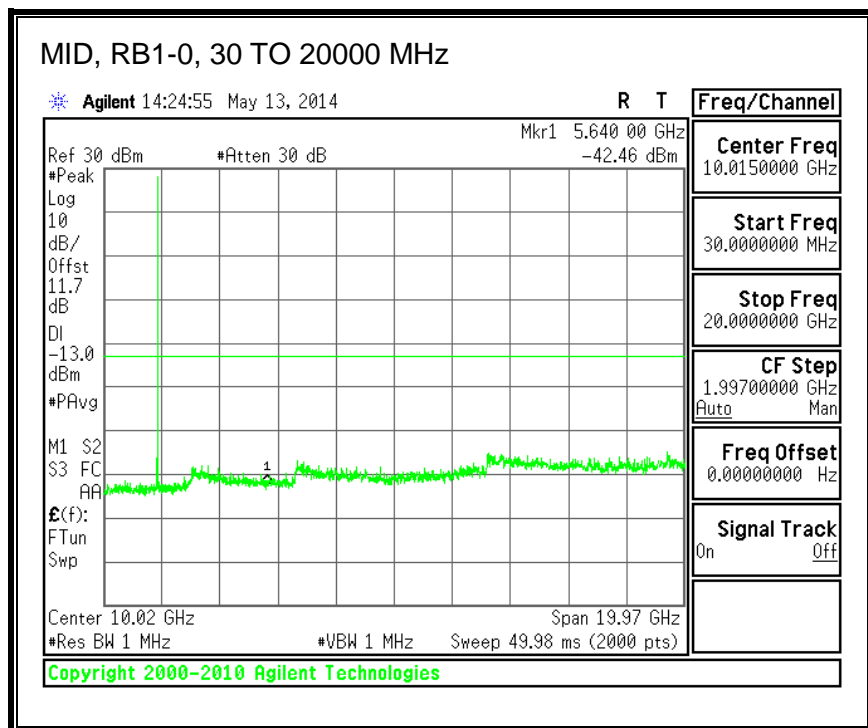
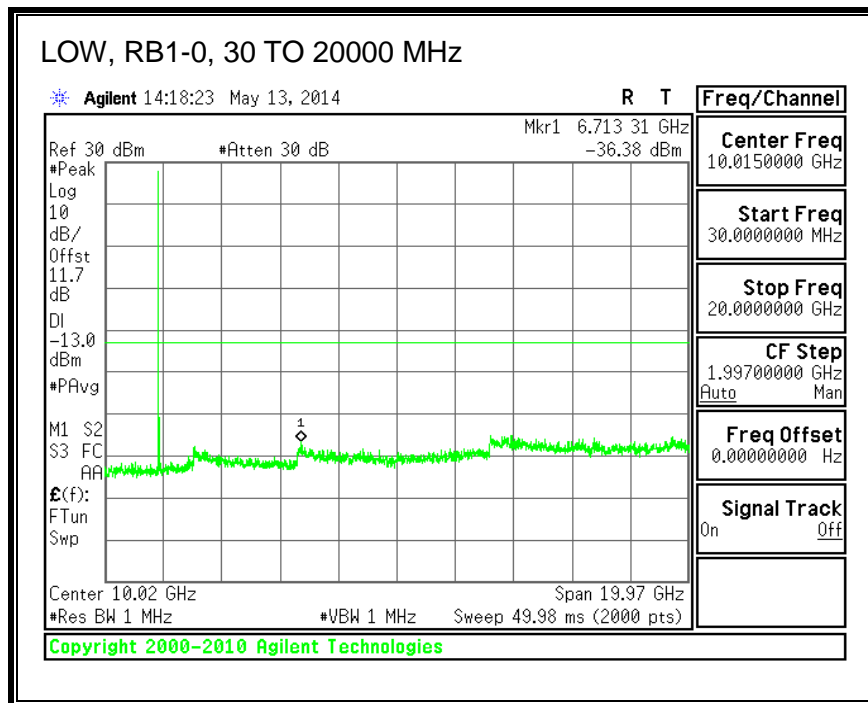
- Set the spectrum analyzer span to include the block edge frequency.
- Set a marker to point the corresponding band edge frequency in each test case.
- Set display line at -13dBm and -25dBm
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.
-

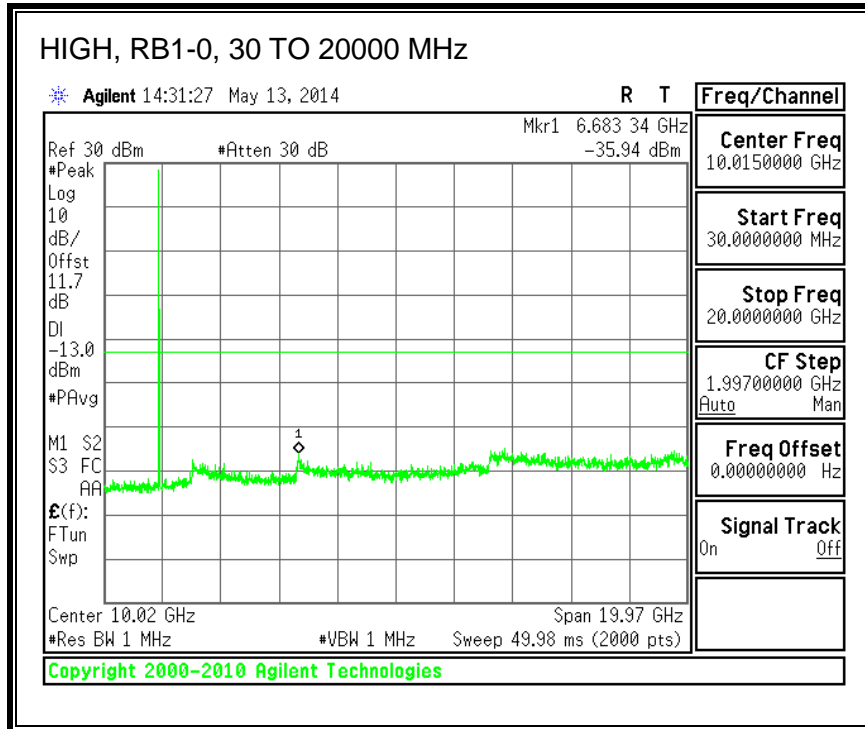
MODES TESTED

- Band 2
- Band 4
- Band 5
- Band 12
- Band 13
- Band 17
- Band 25
- Band 26

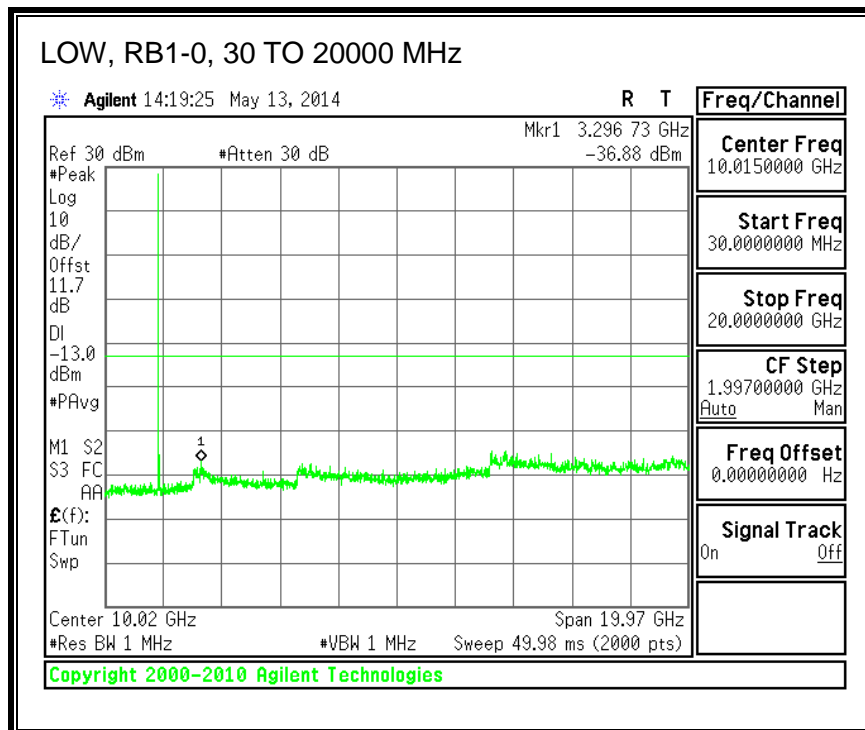
8.3.1. LTE BAND 2

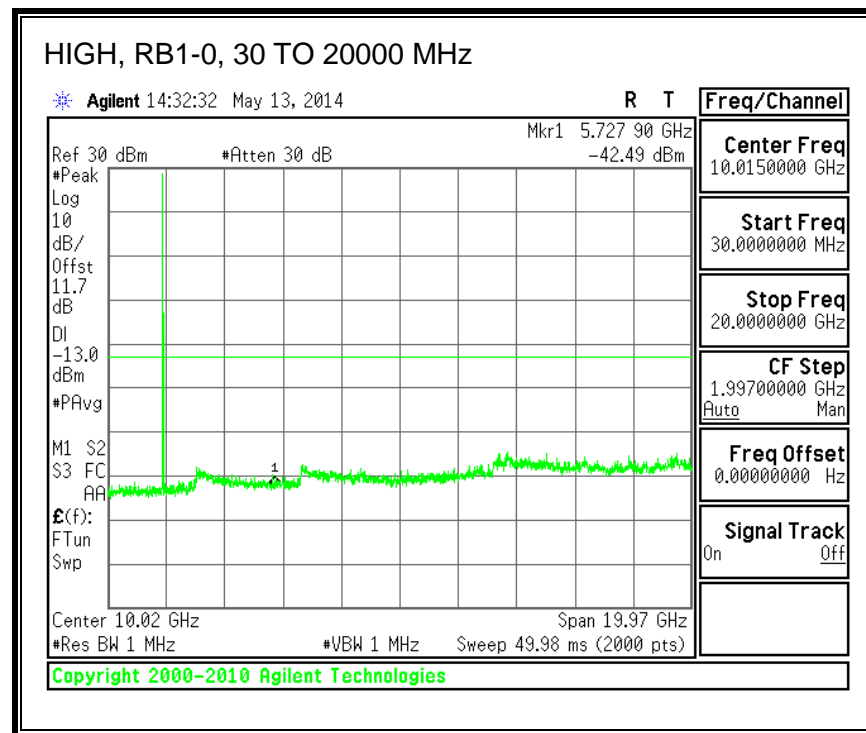
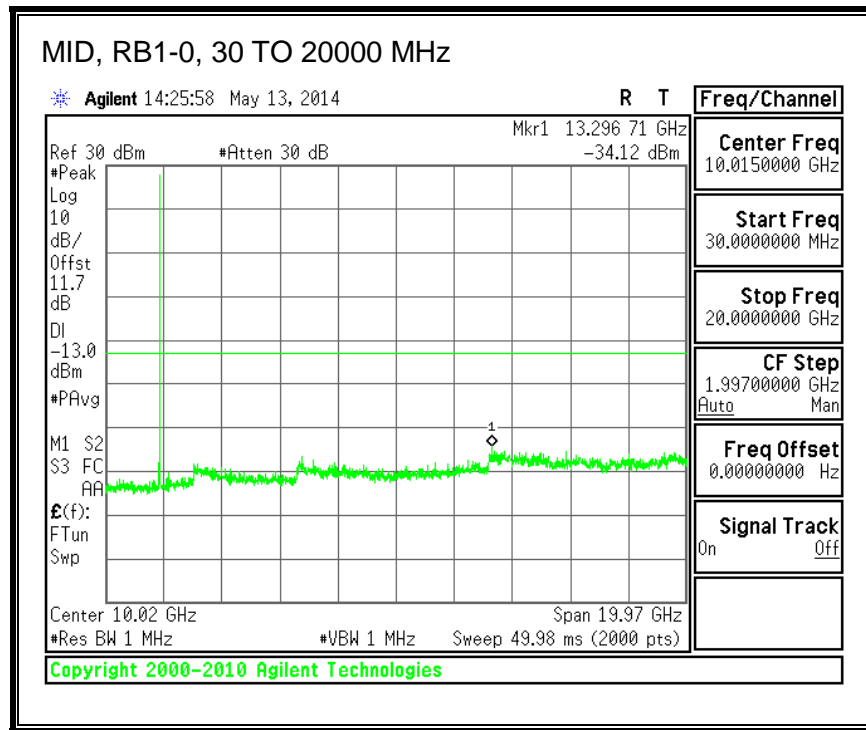
QPSK, (1.4 MHz BAND WIDTH)



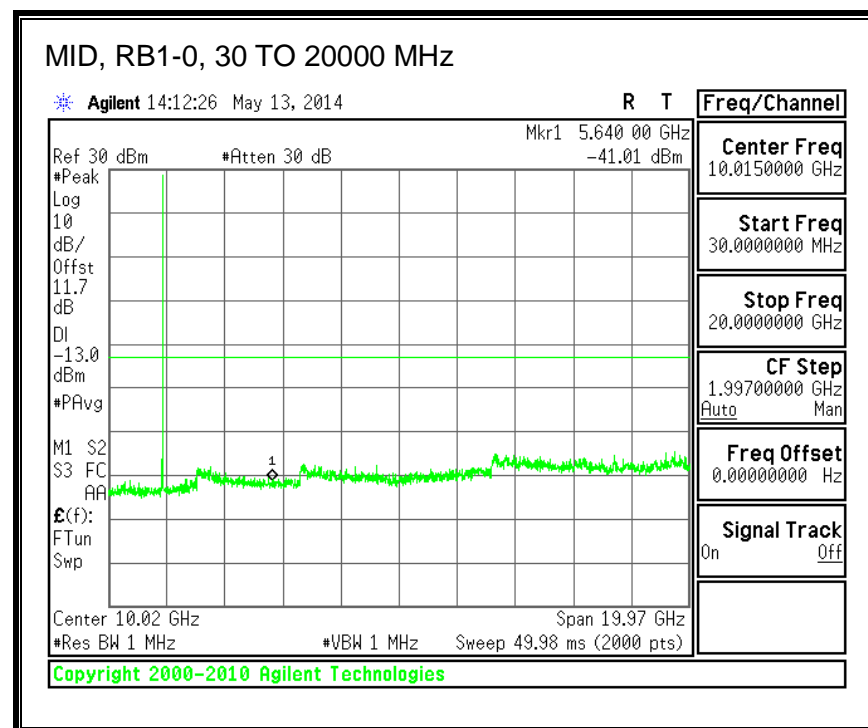
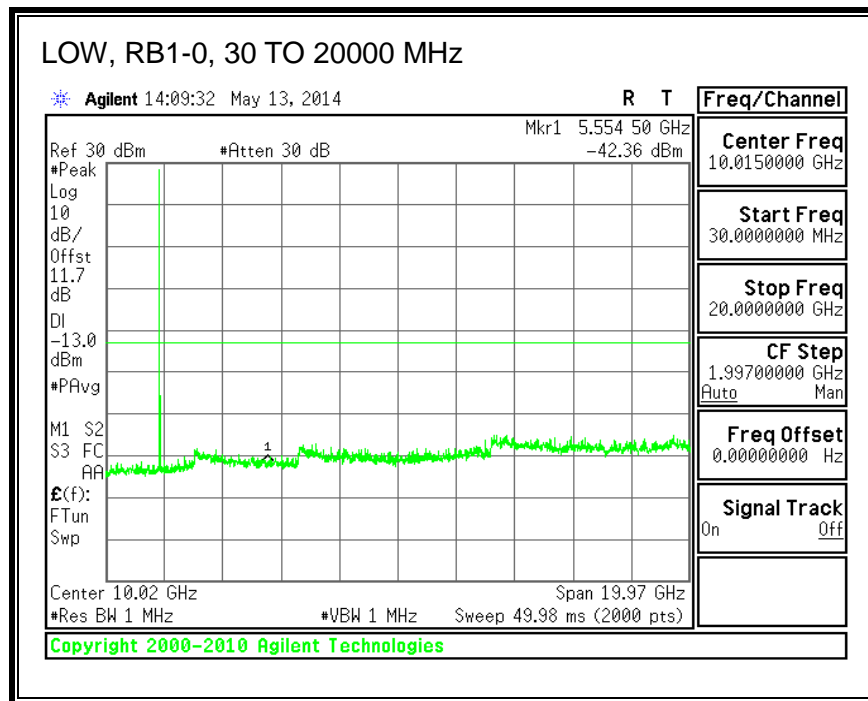


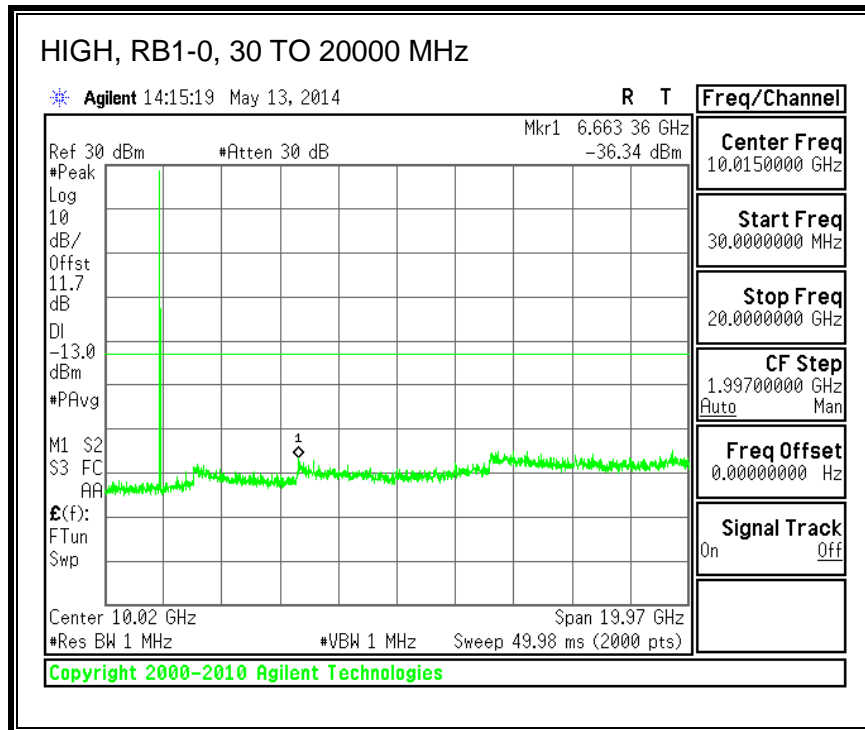
16QAM, (1.4 MHz BAND WIDTH)



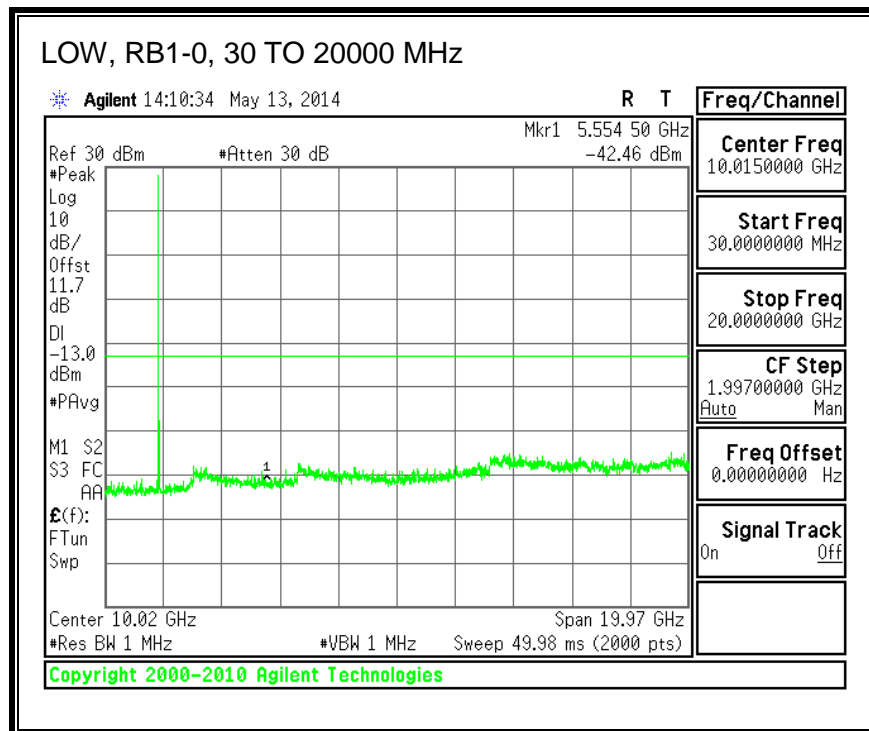


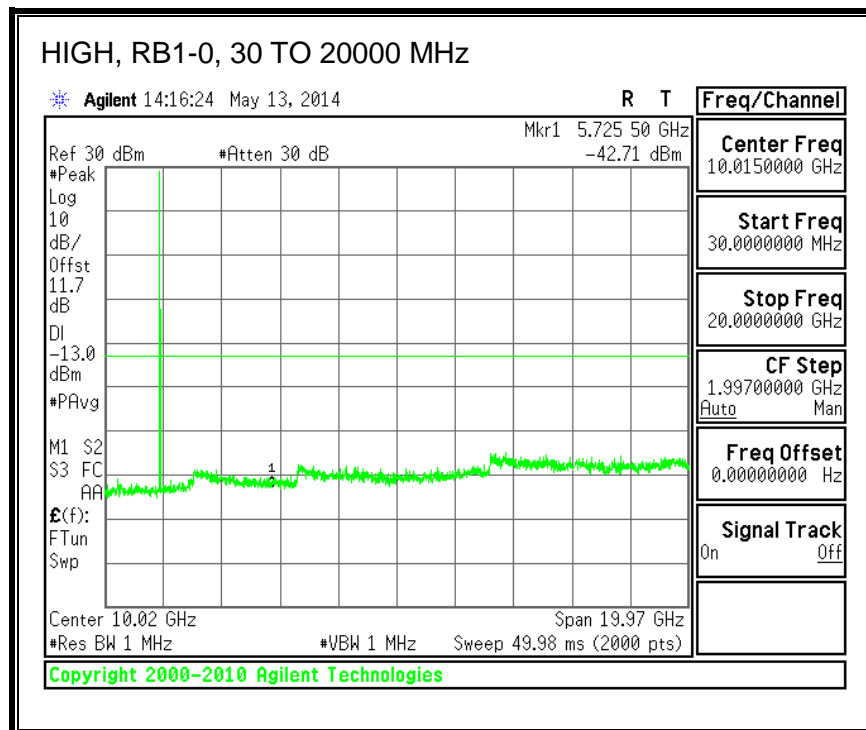
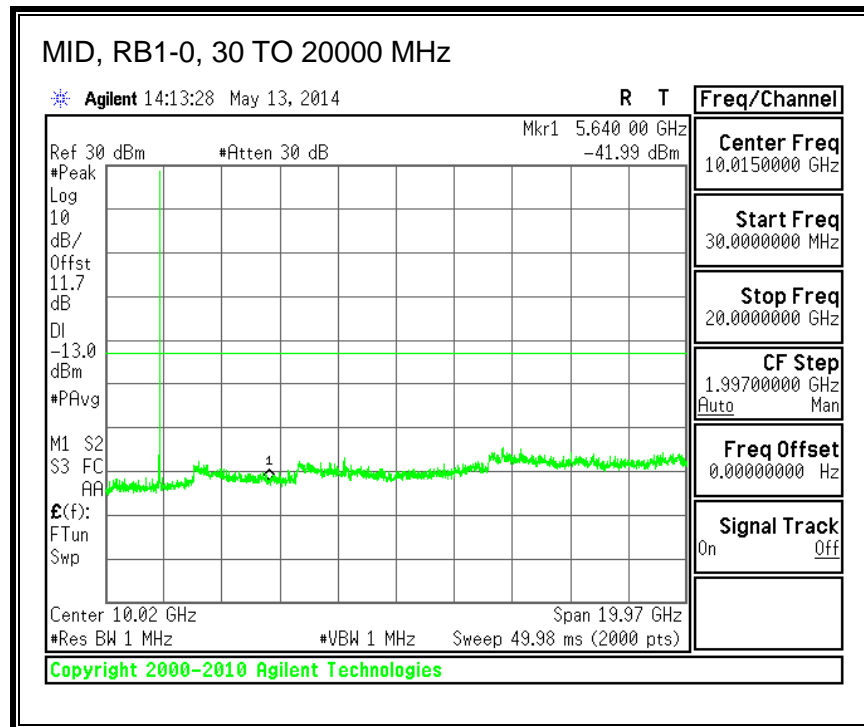
QPSK, (3.0 MHz BAND WIDTH)



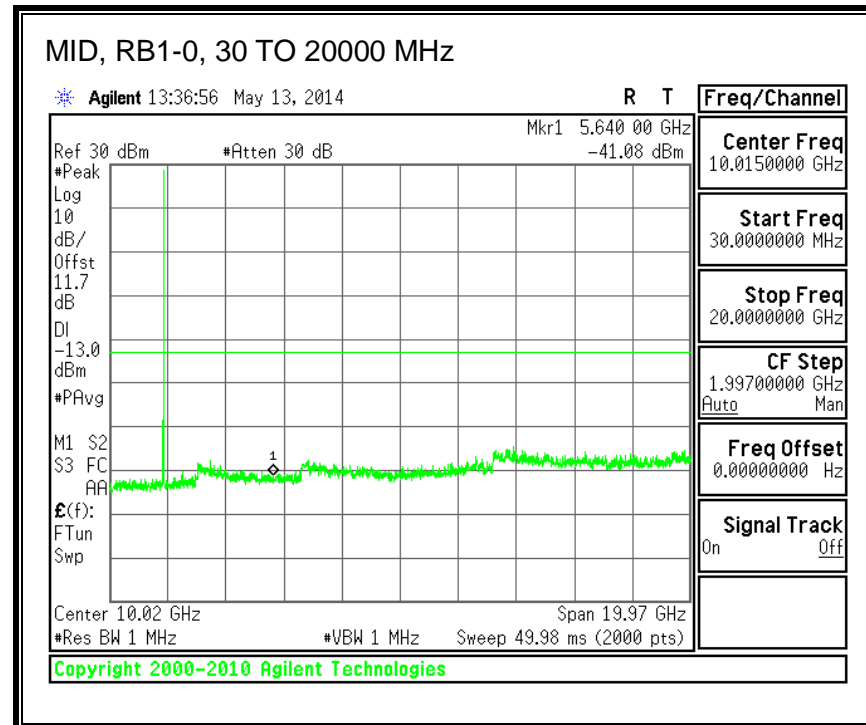
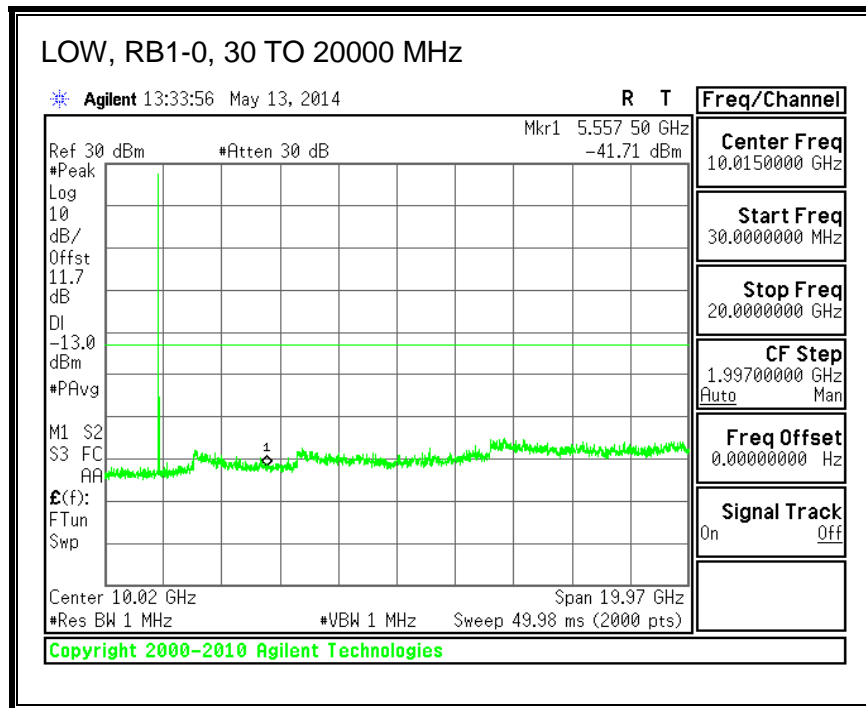


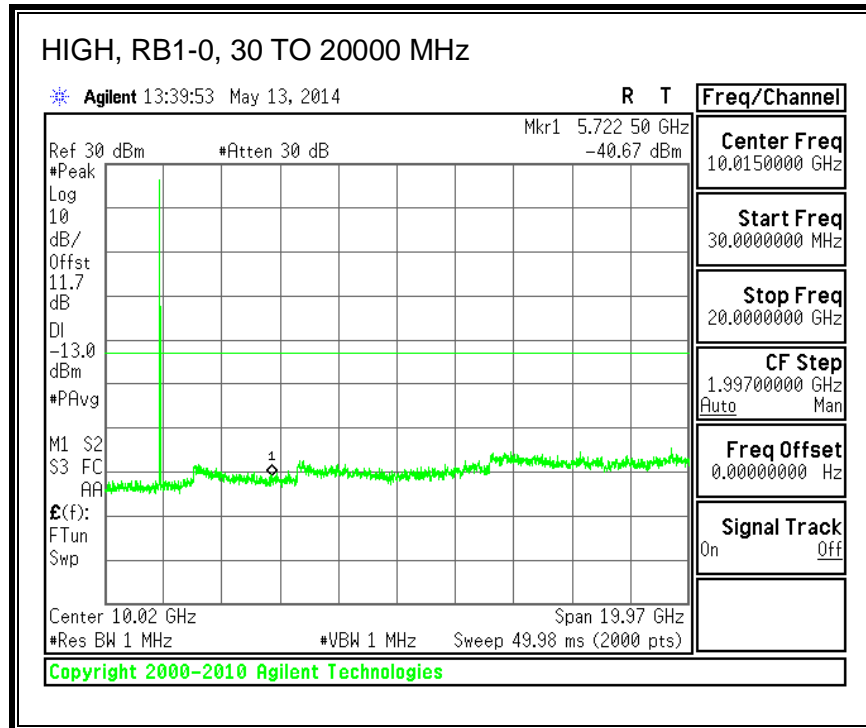
16QAM, (3.0 MHz BAND WIDTH)



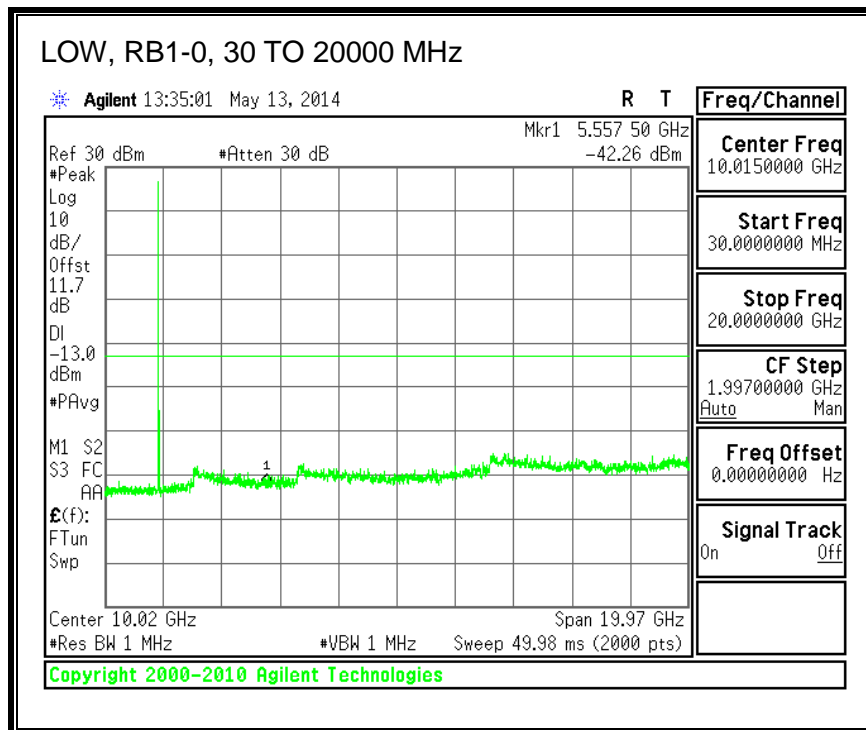


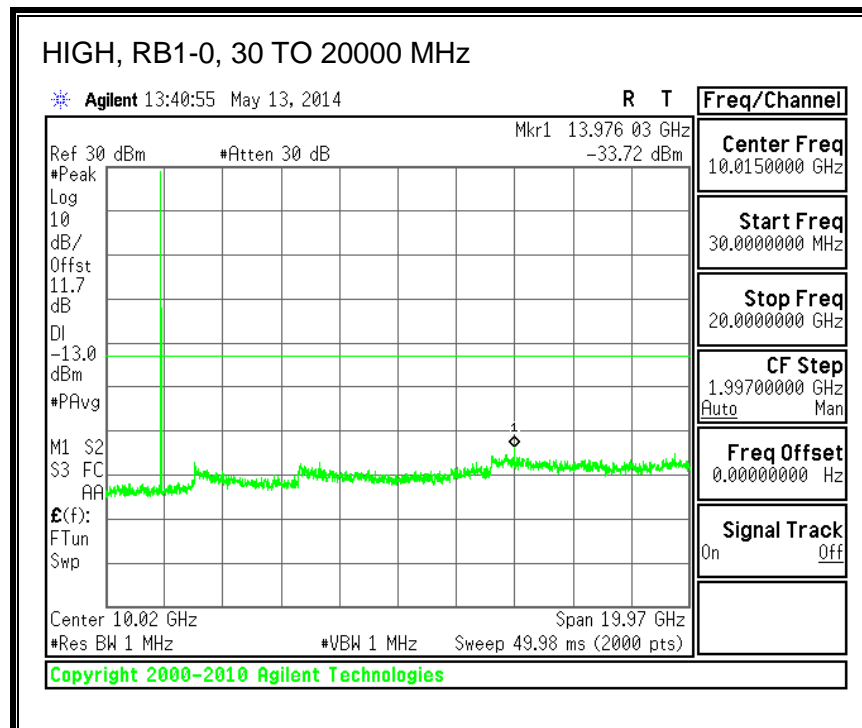
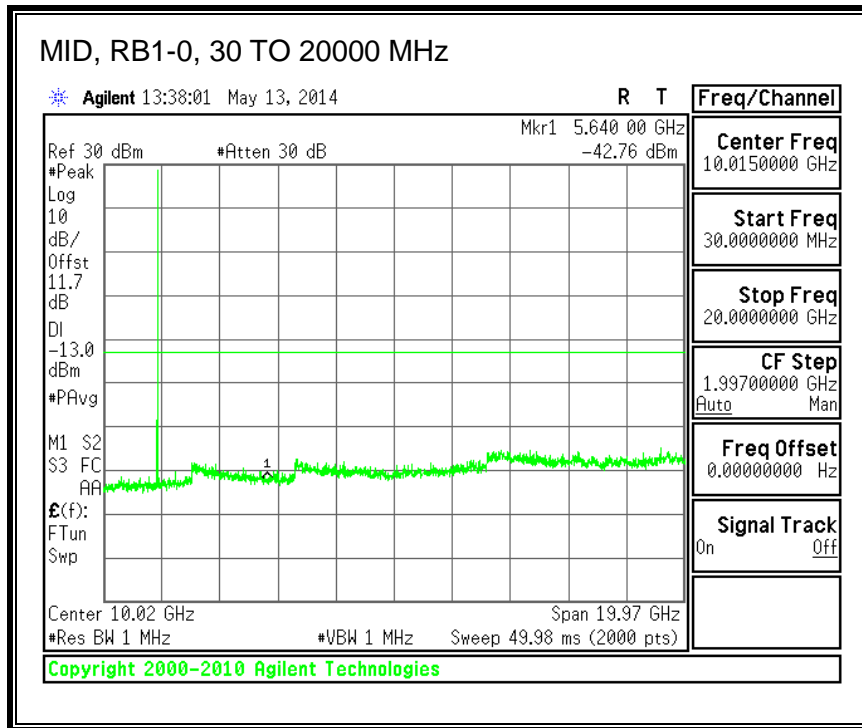
QPSK, (5.0 MHz BAND WIDTH)



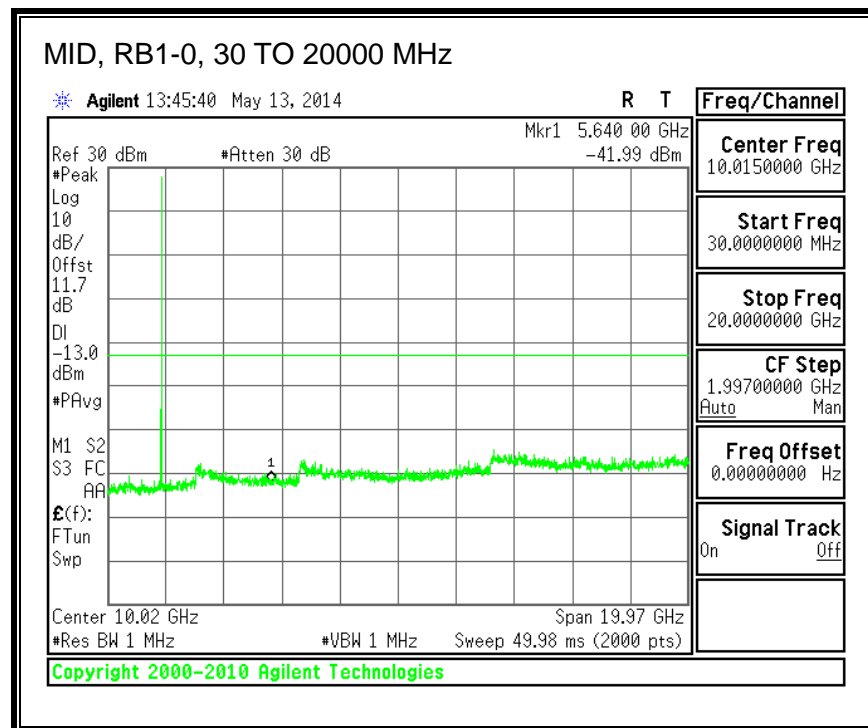
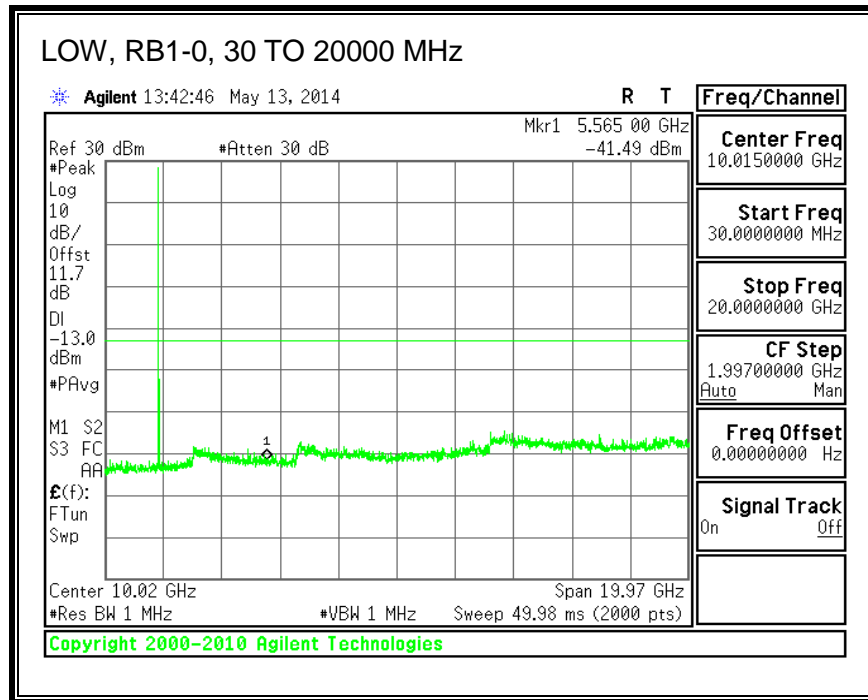


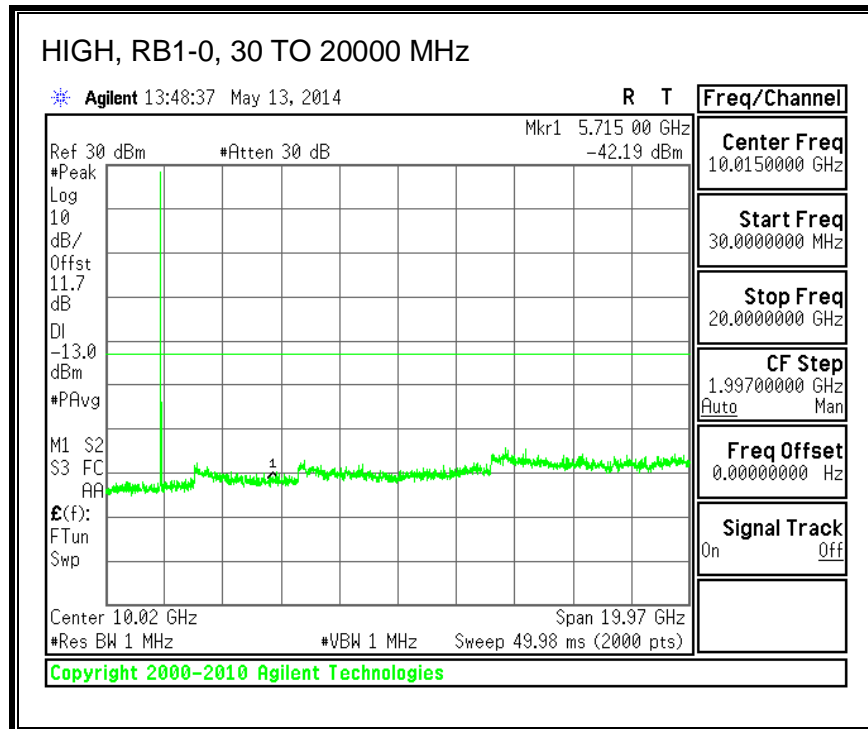
16QAM, (5.0 MHz BAND WIDTH)



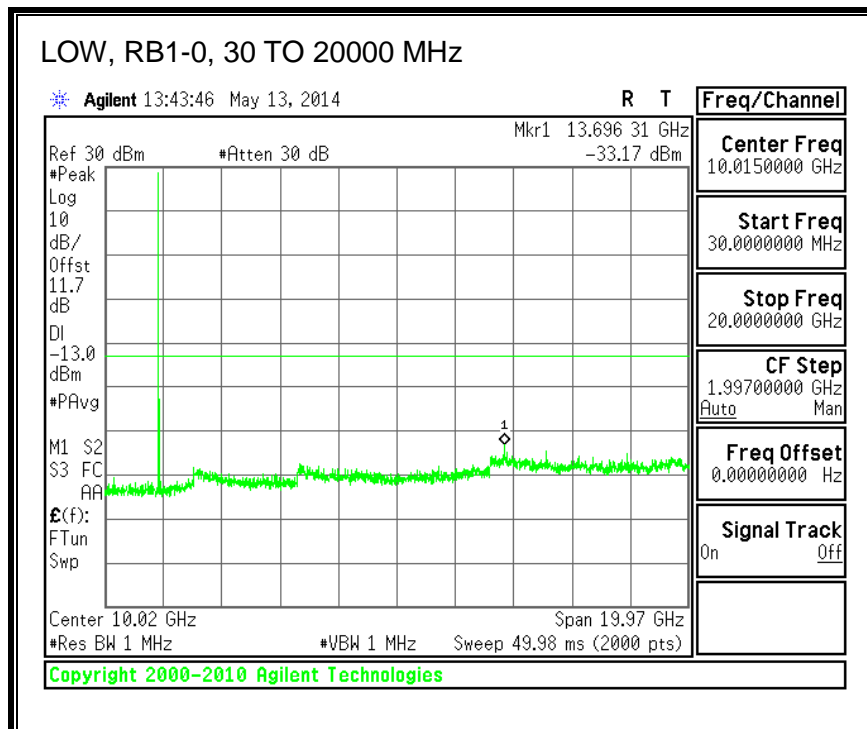


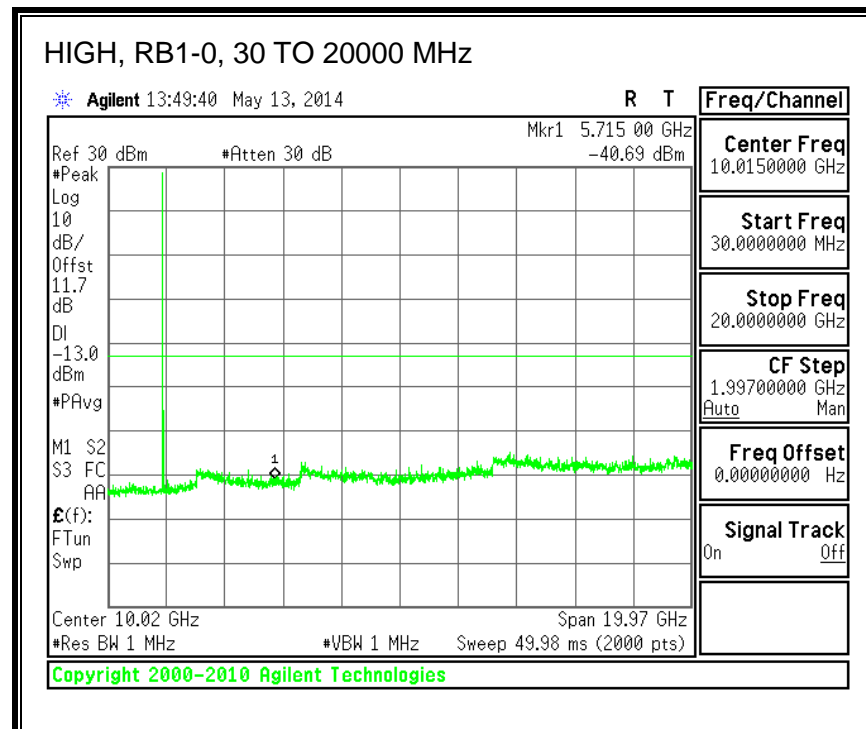
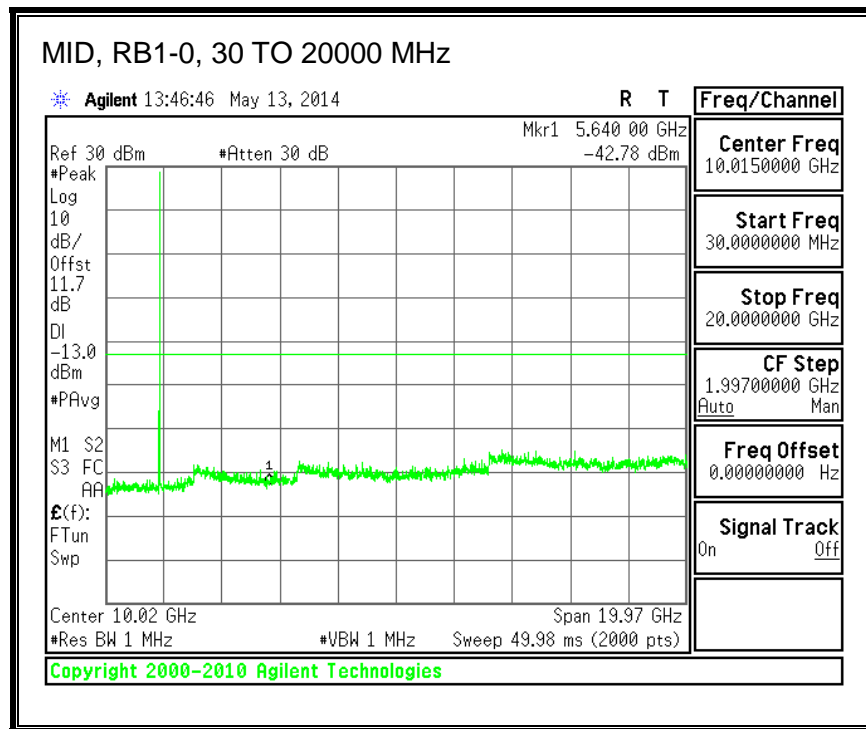
QPSK, (10.0 MHz BAND WIDTH)



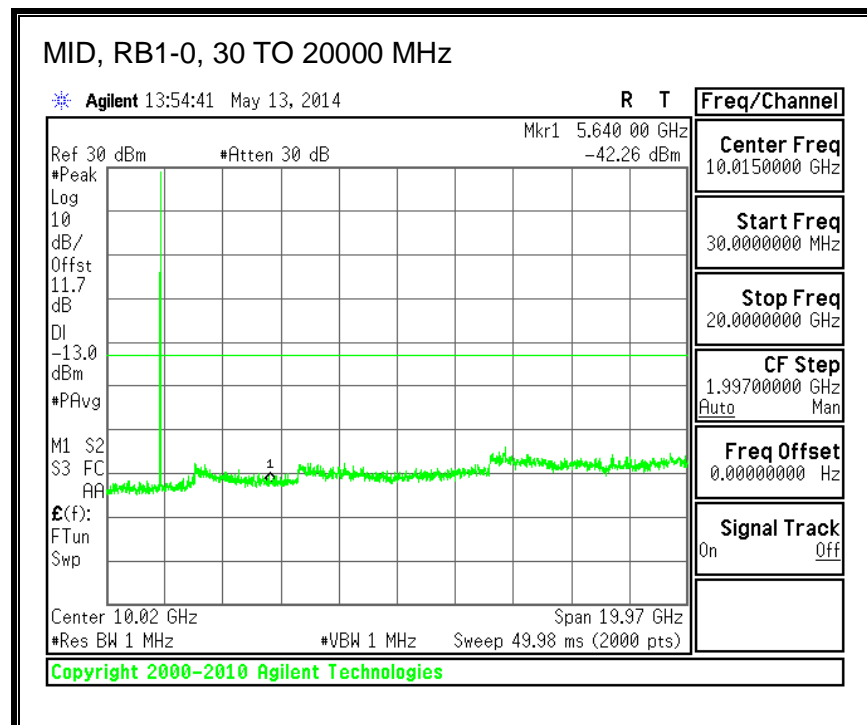
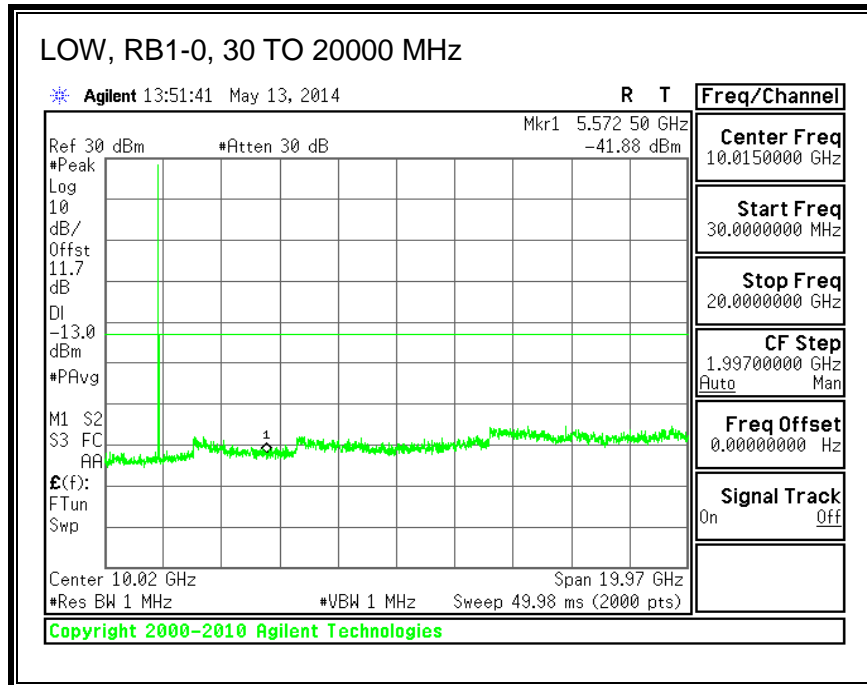


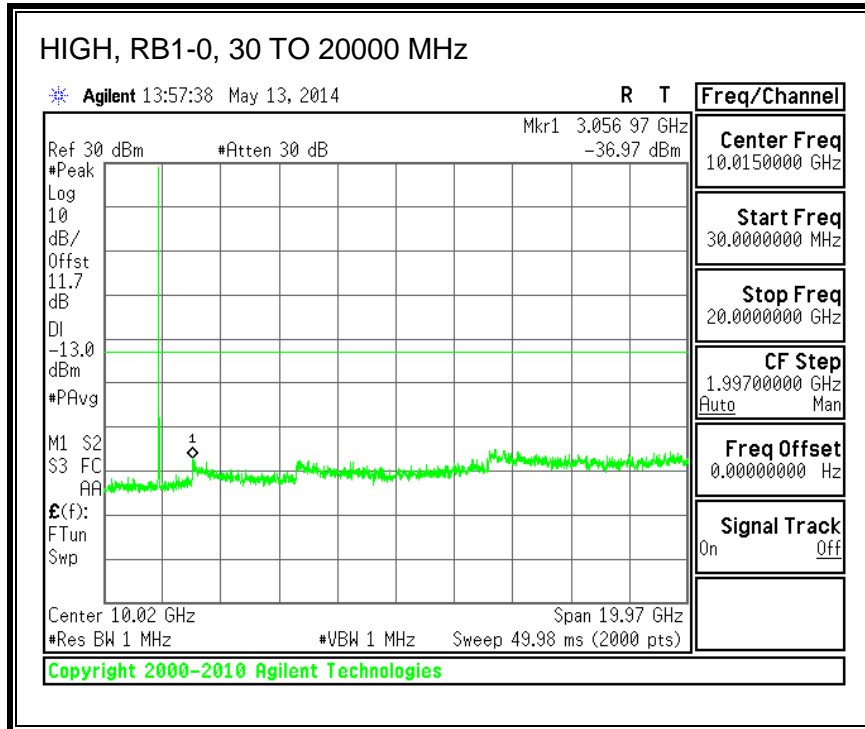
16QAM, (10.0 MHz BAND WIDTH)





QPSK, (15.0 MHz BAND WIDTH)





16QAM, (15.0 MHz BAND WIDTH)

