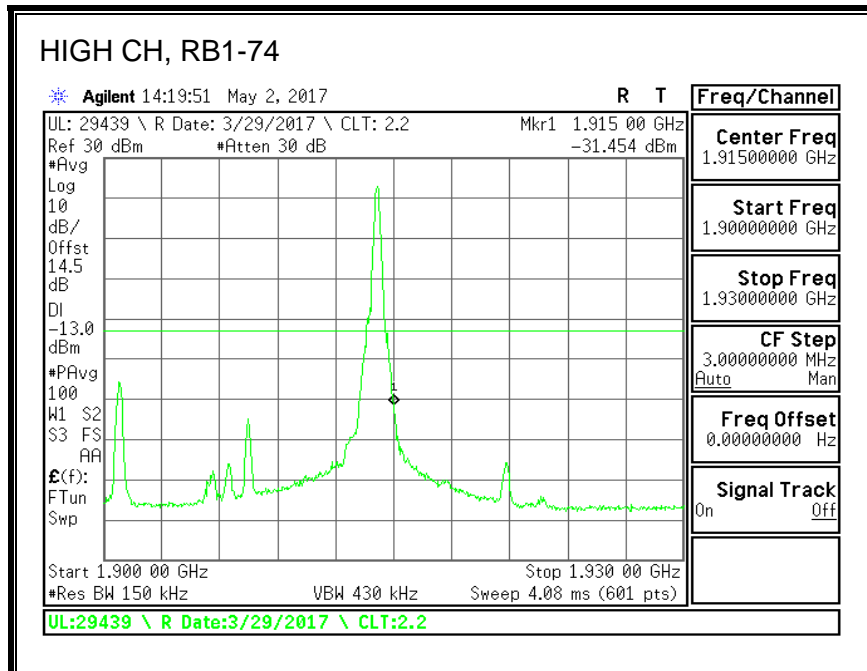
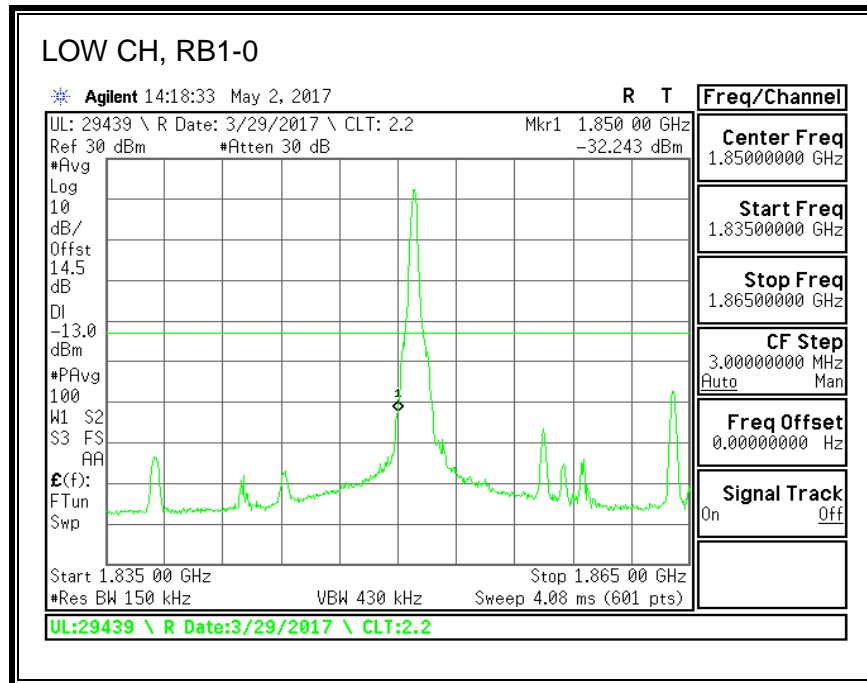
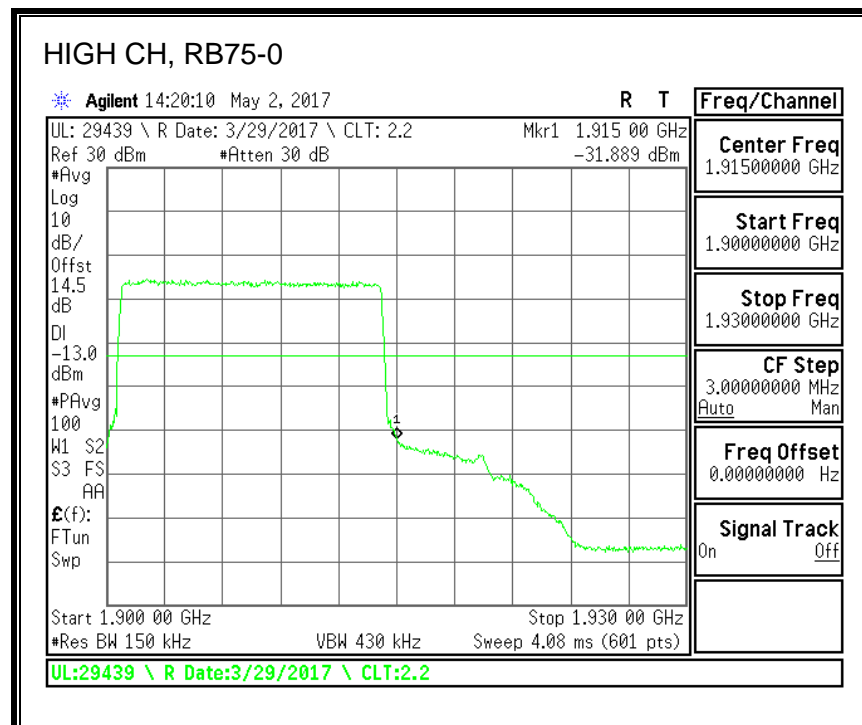
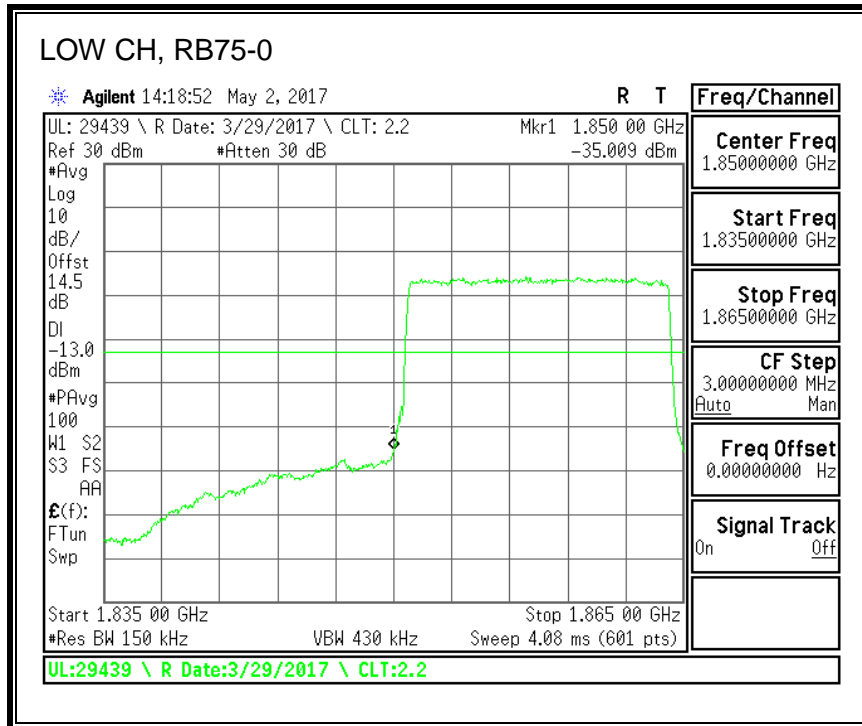
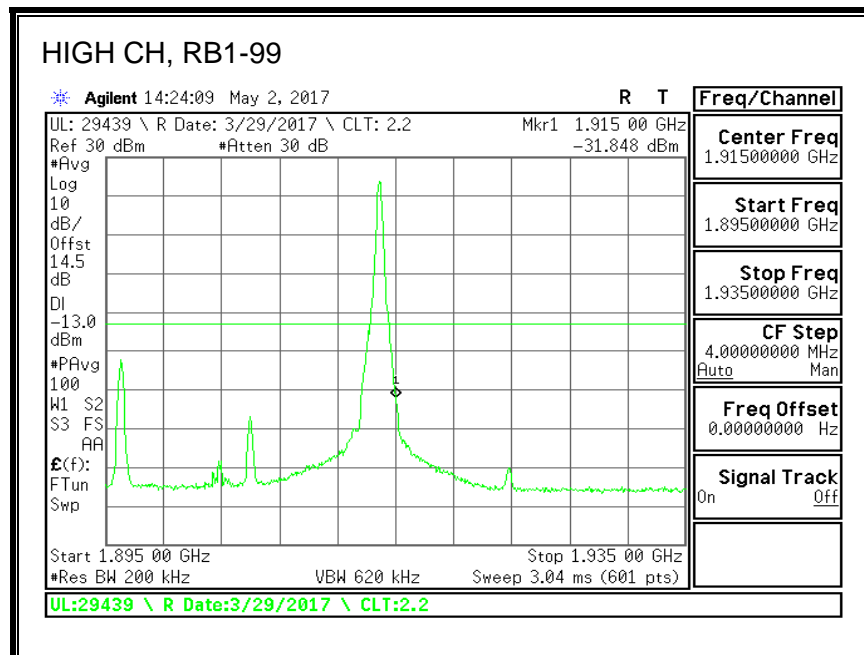
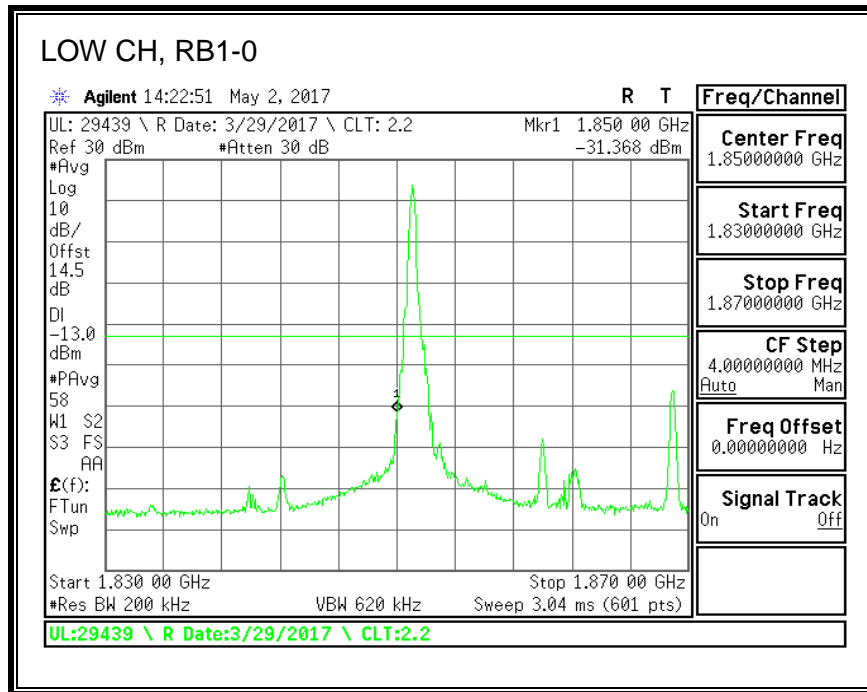


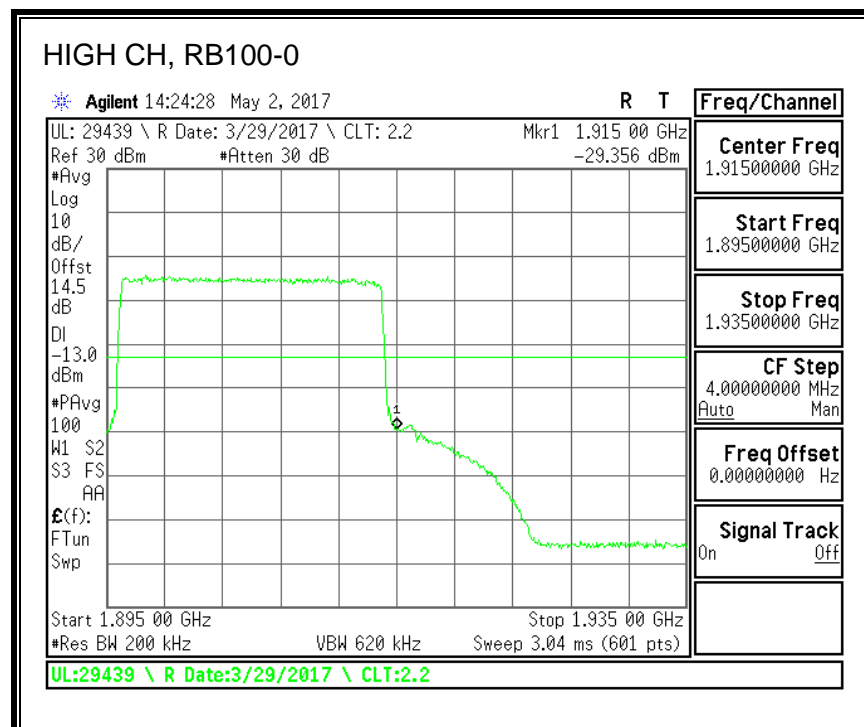
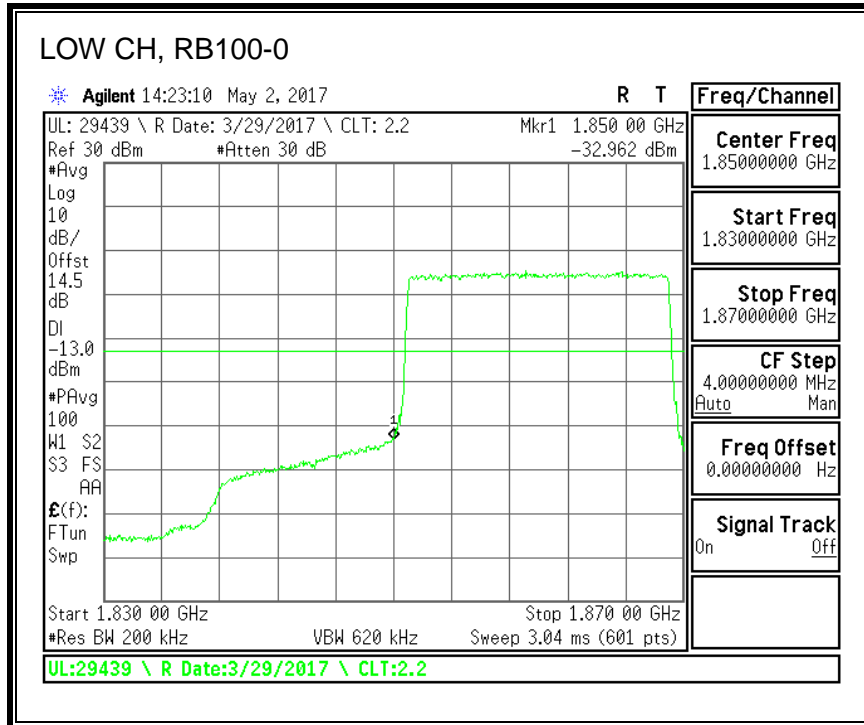
16QAM, (15.0 MHz BAND WIDTH)



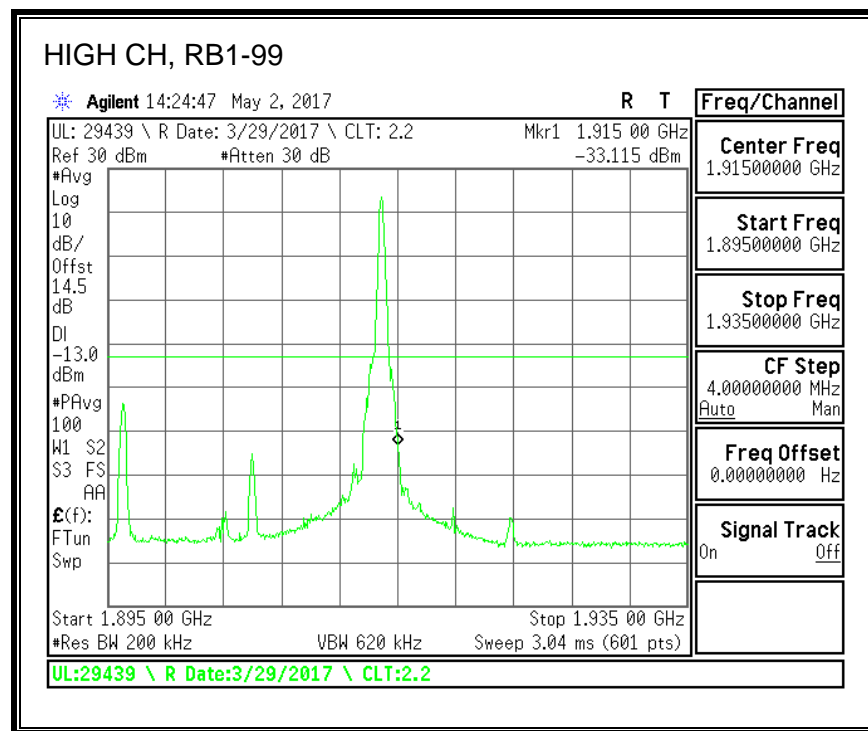
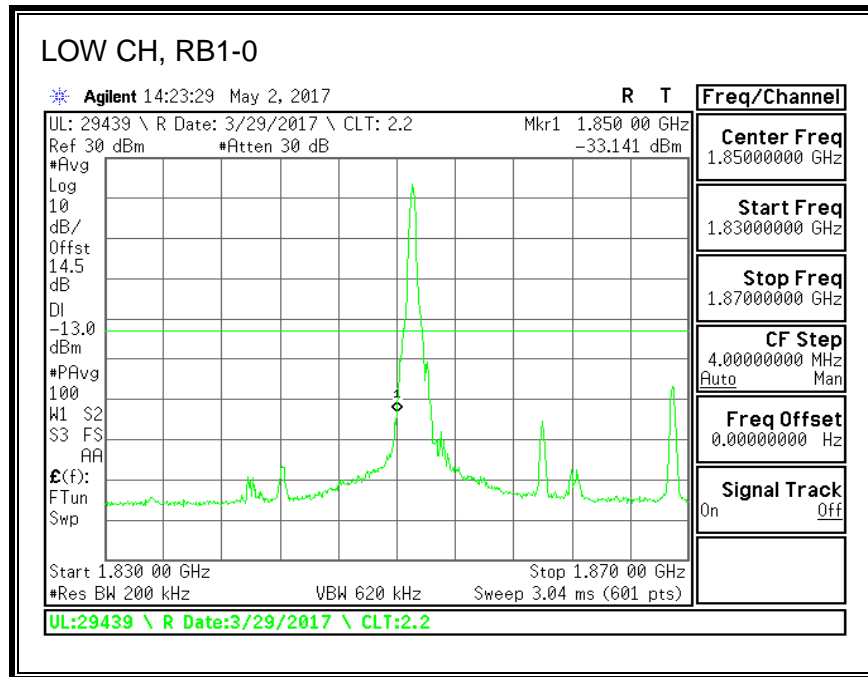


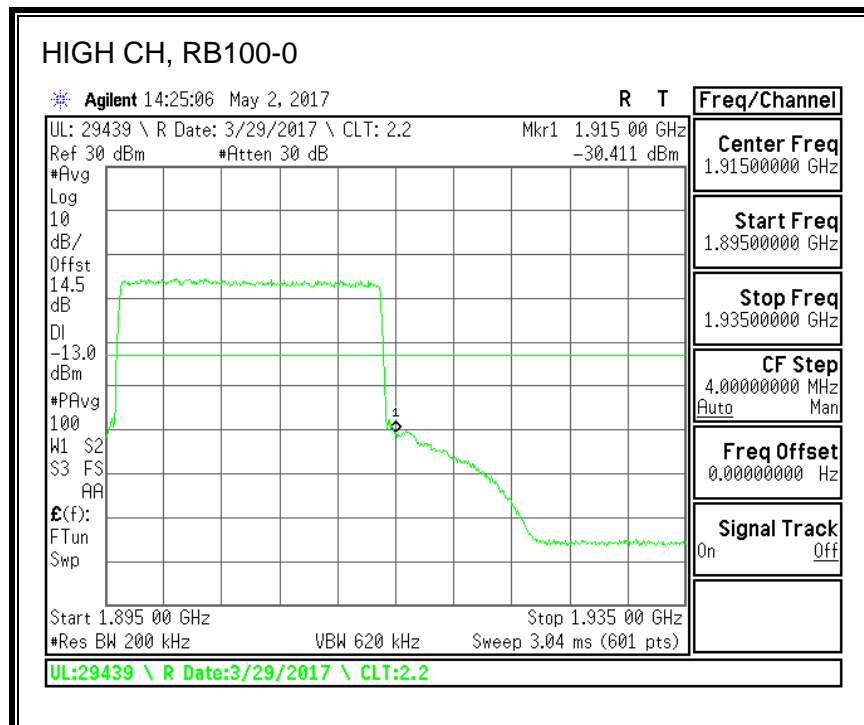
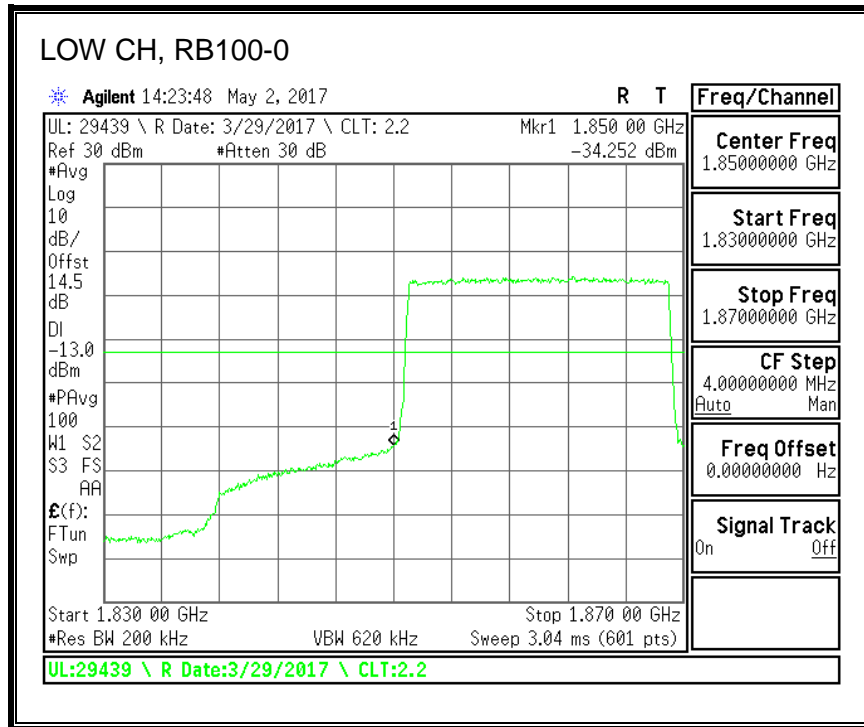
QPSK, (20.0 MHz BAND WIDTH)





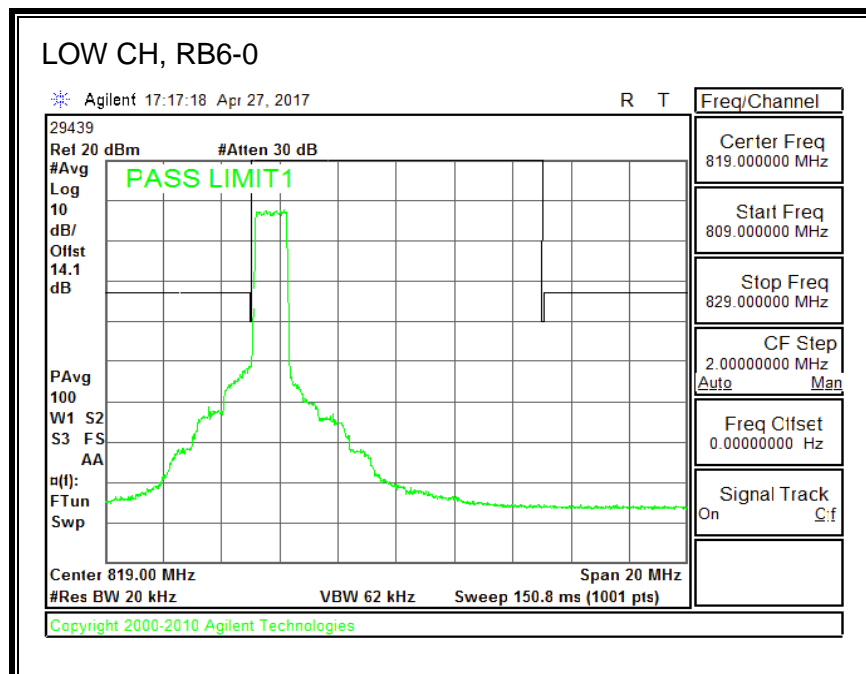
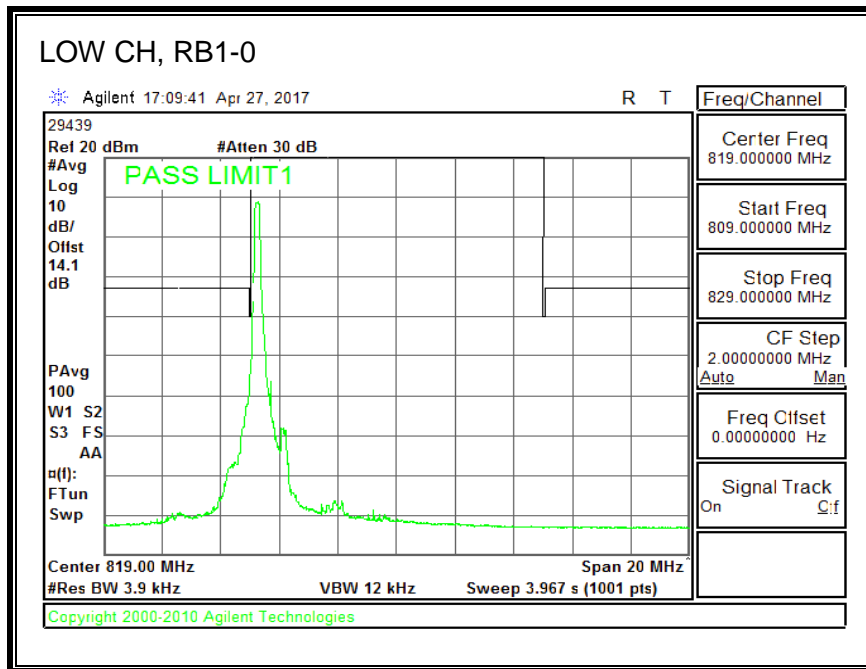
16QAM, (20.0 MHz BAND WIDTH)

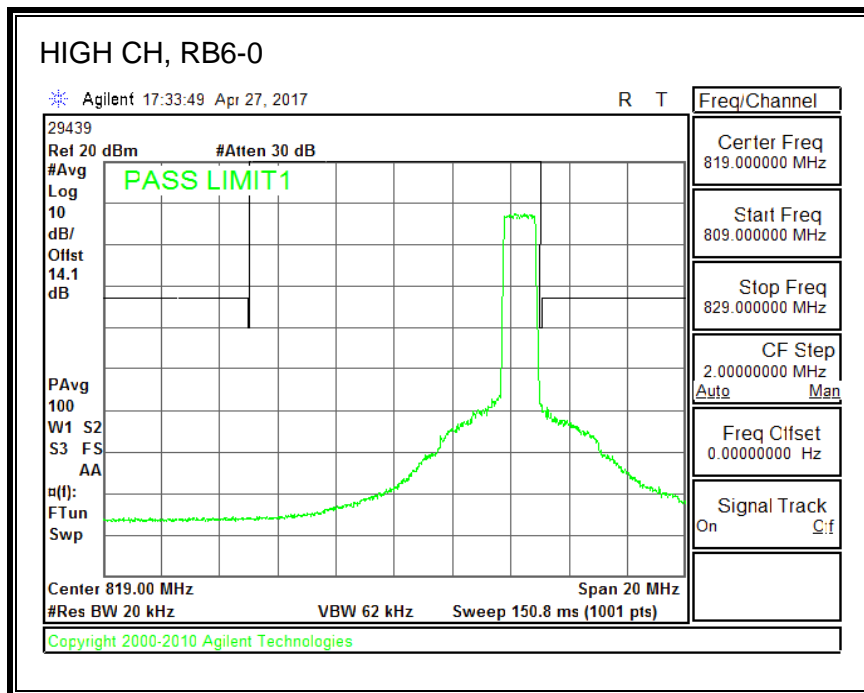
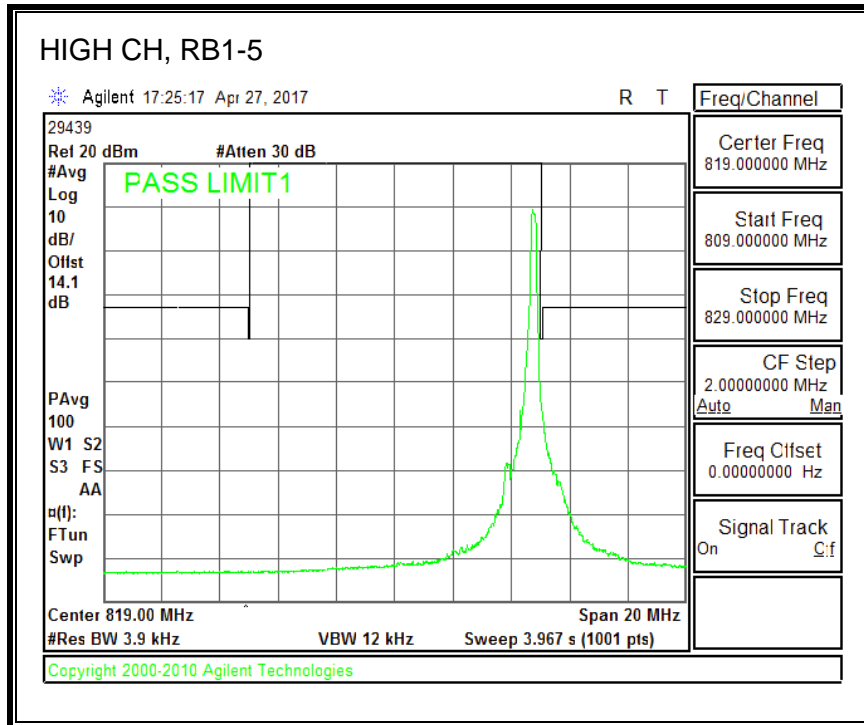




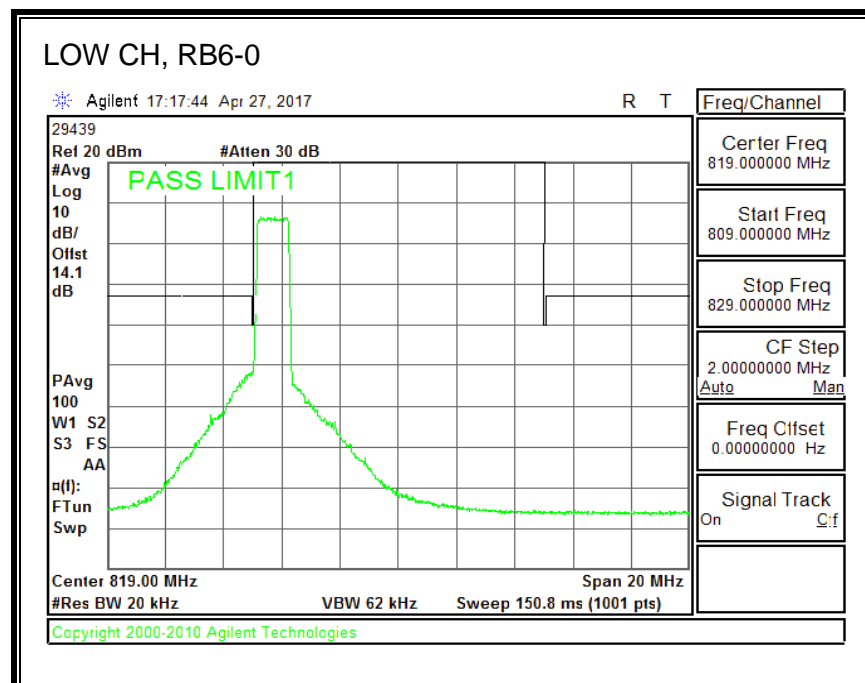
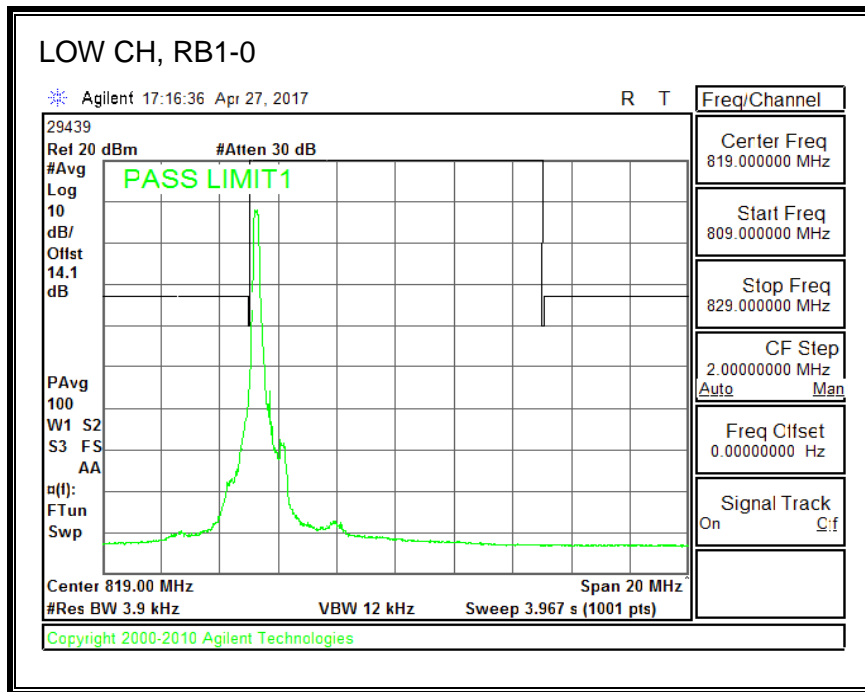
8.2.9. LTE BAND 26 EMISSION MASK

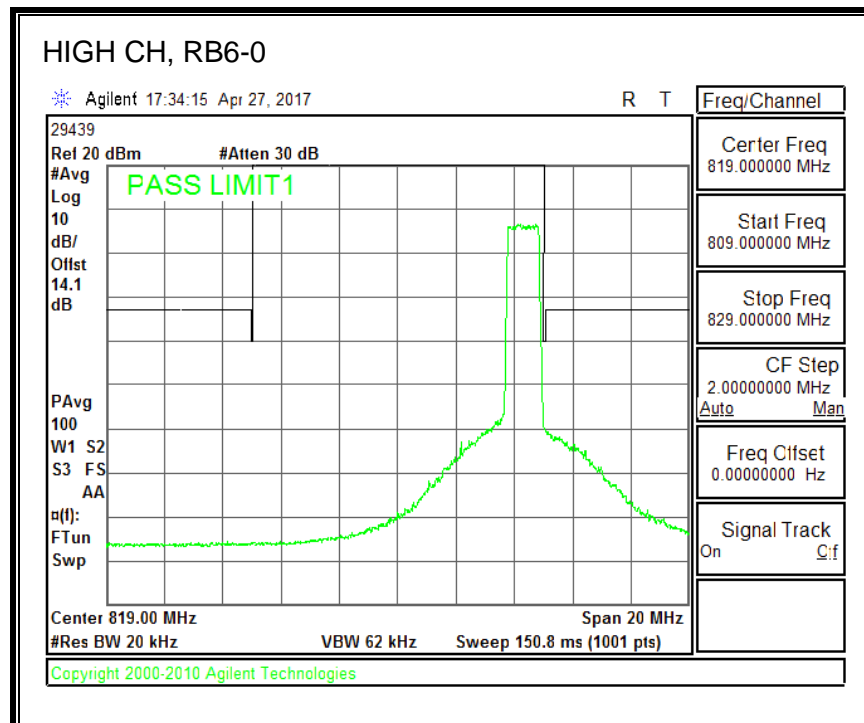
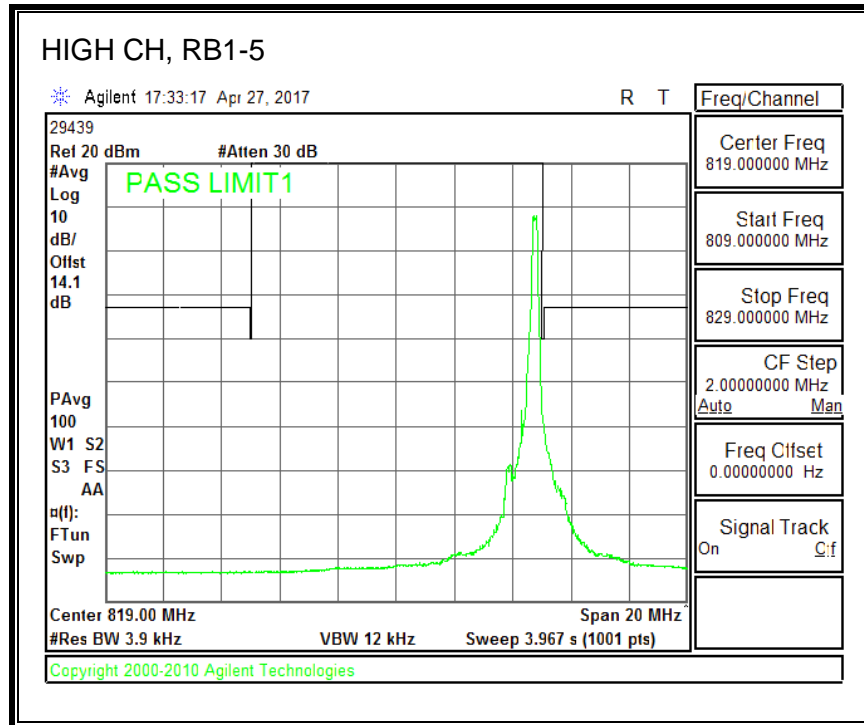
QPSK, (1.4 MHz BAND WIDTH)



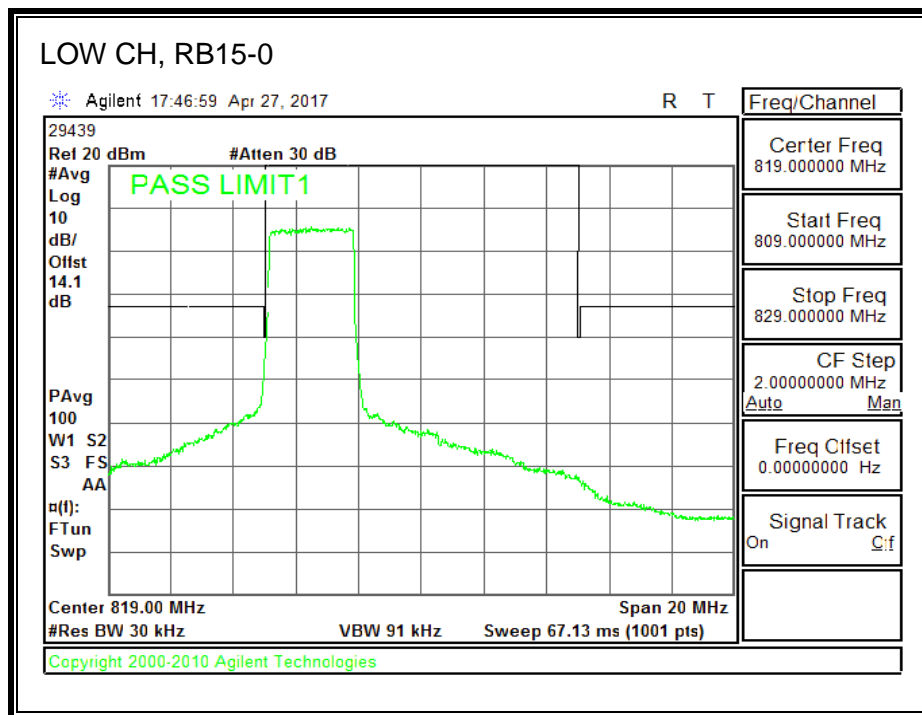
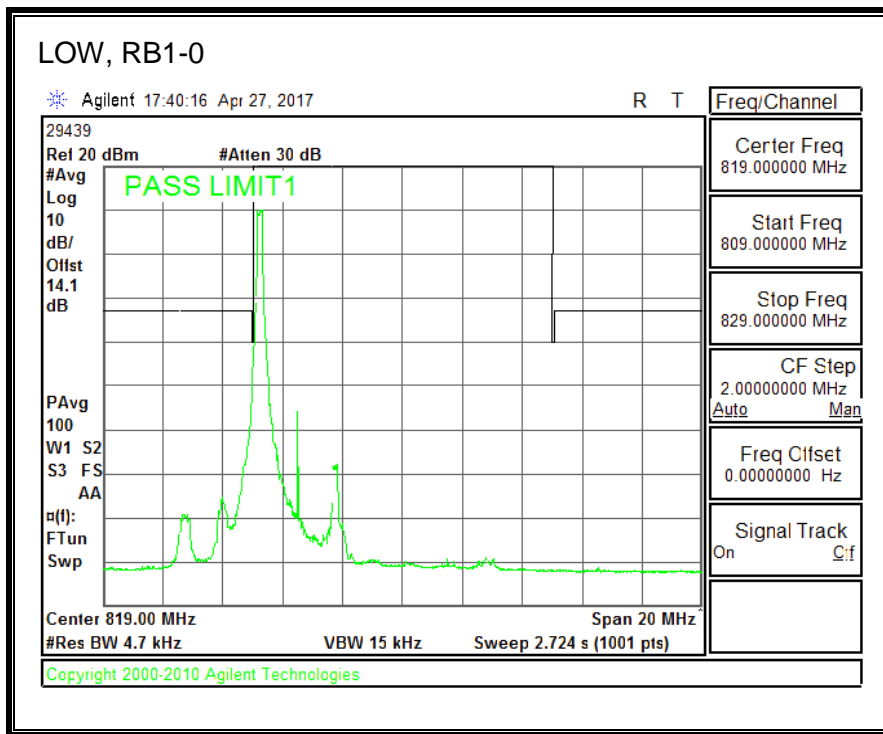


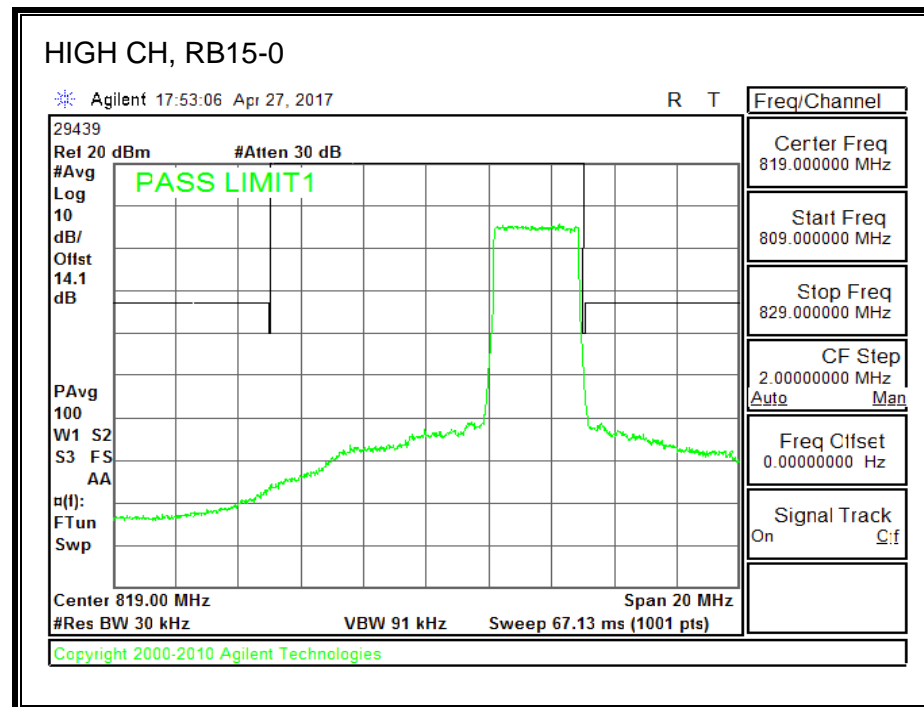
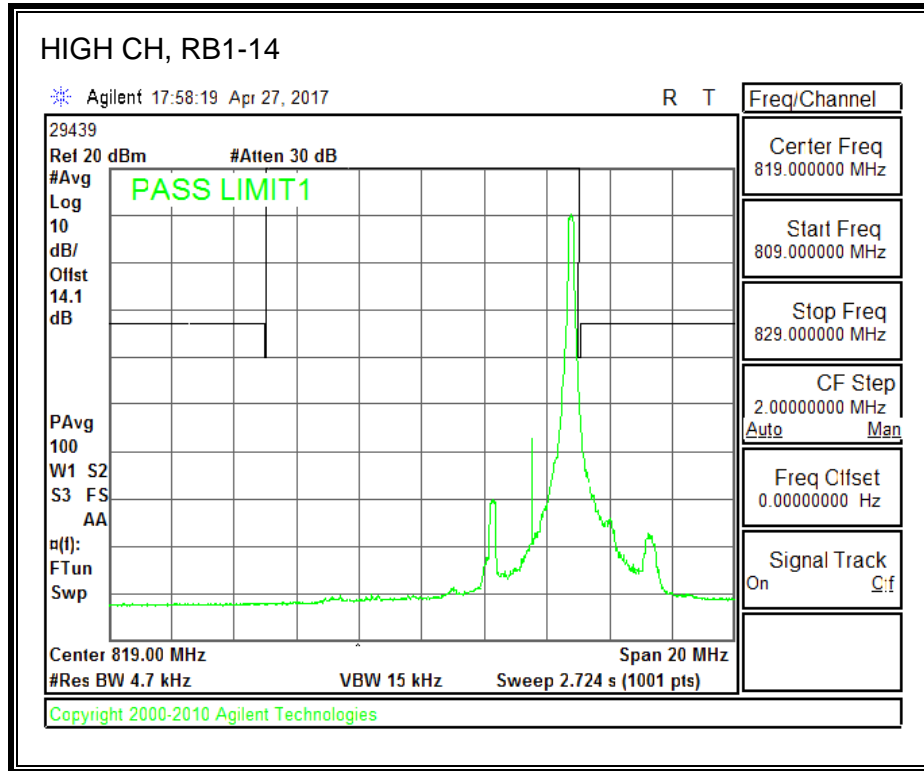
16QAM, (1.4 MHz BAND WIDTH)



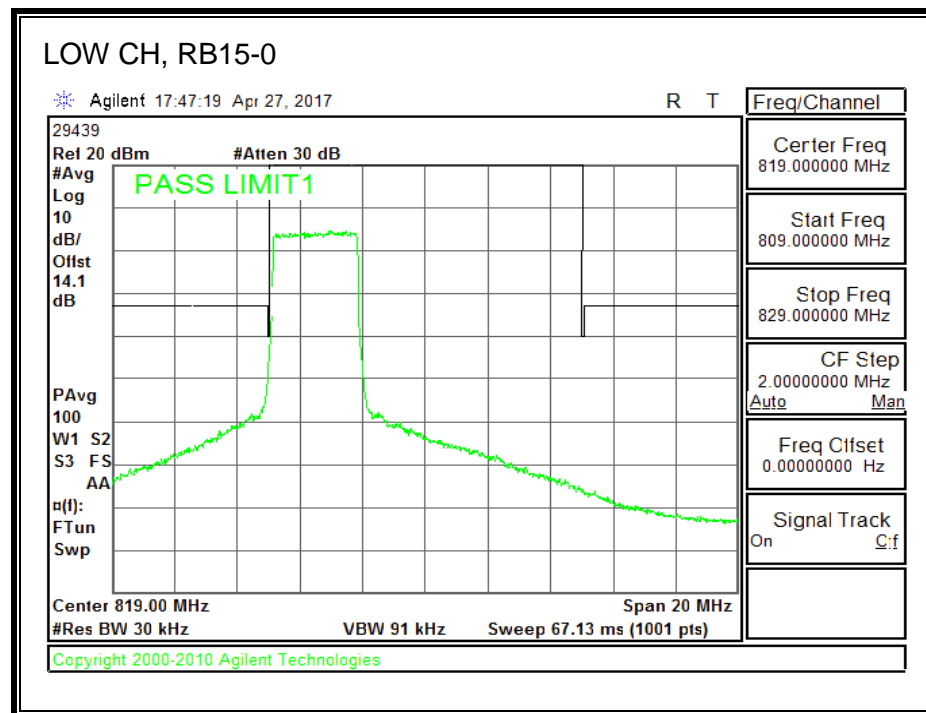
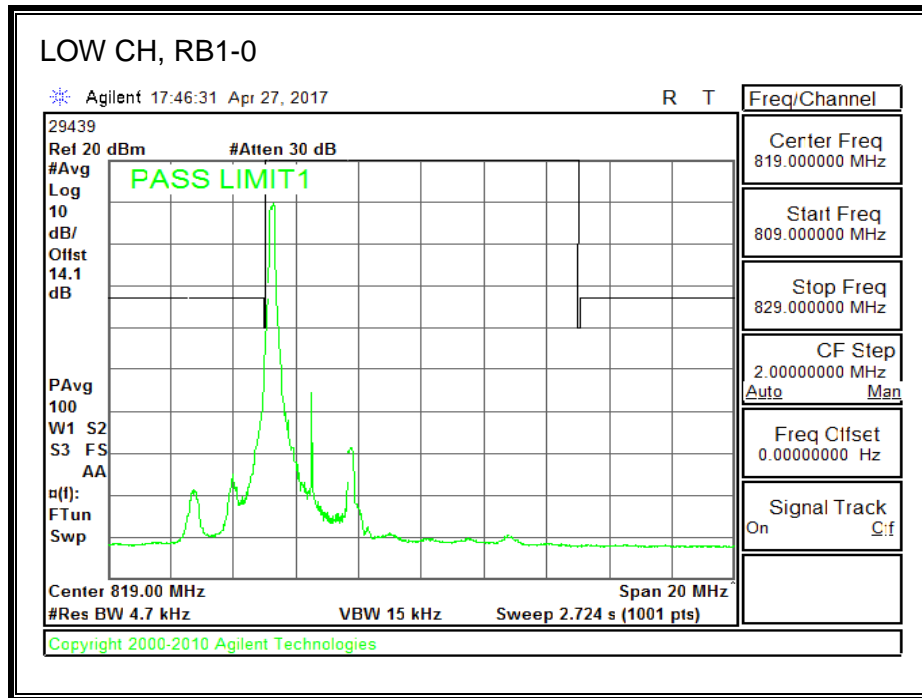


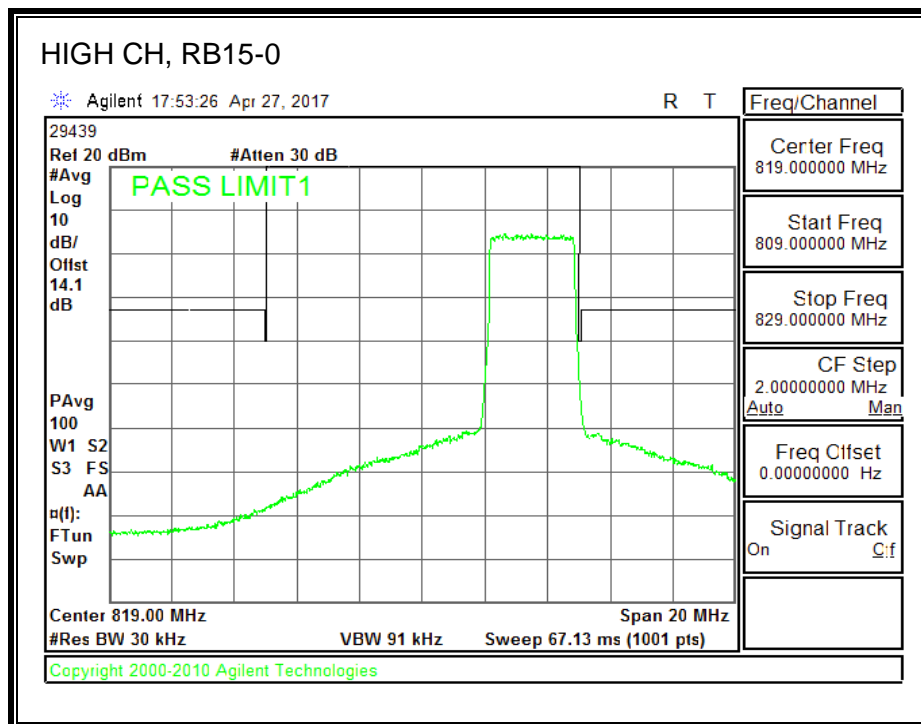
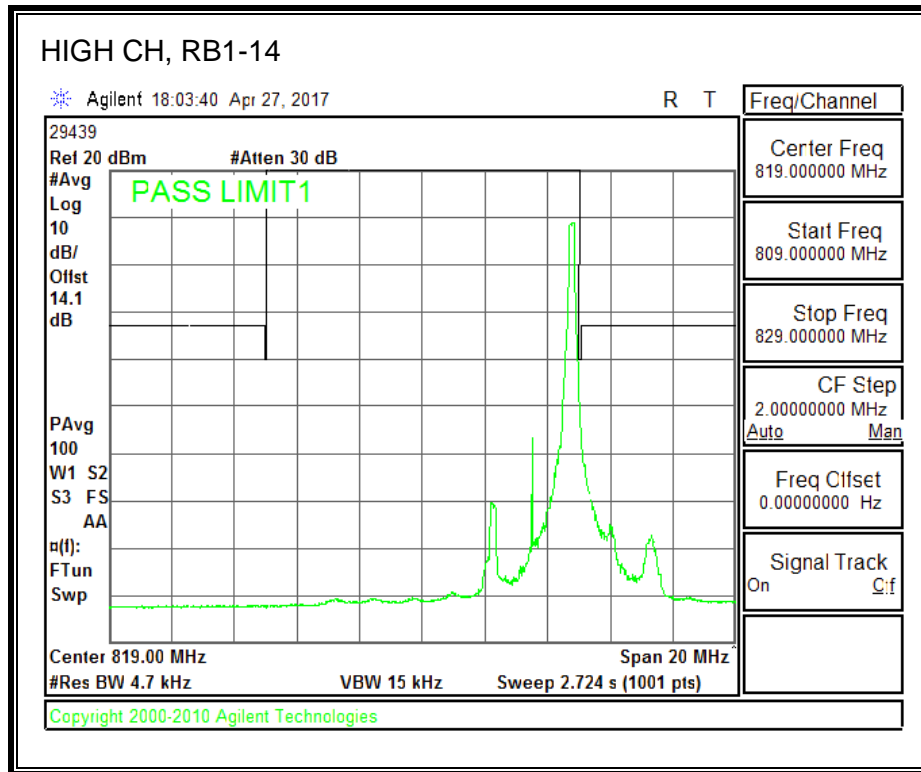
QPSK, (3.0 MHz BAND WIDTH)



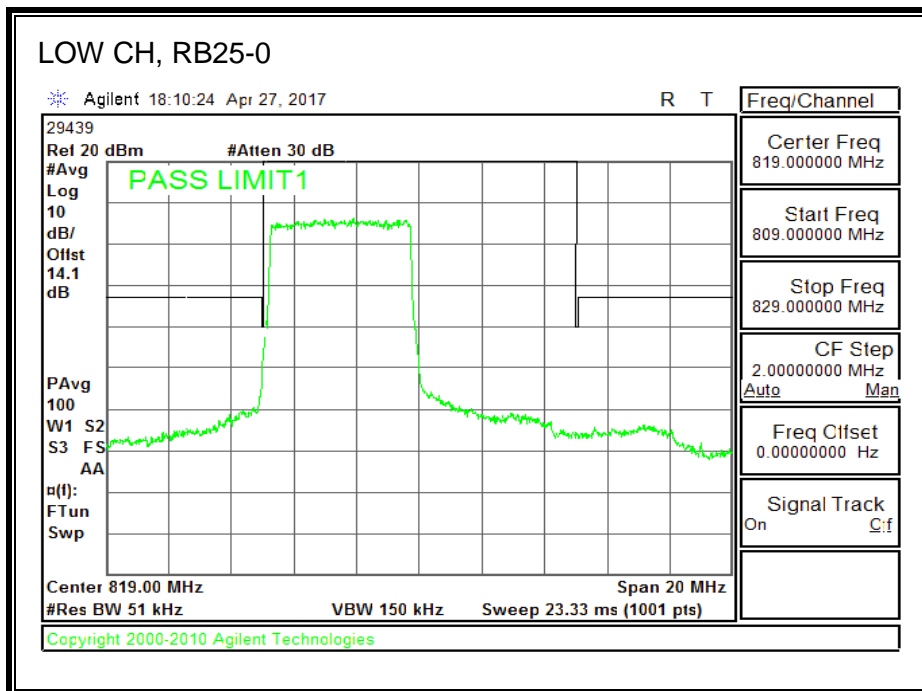
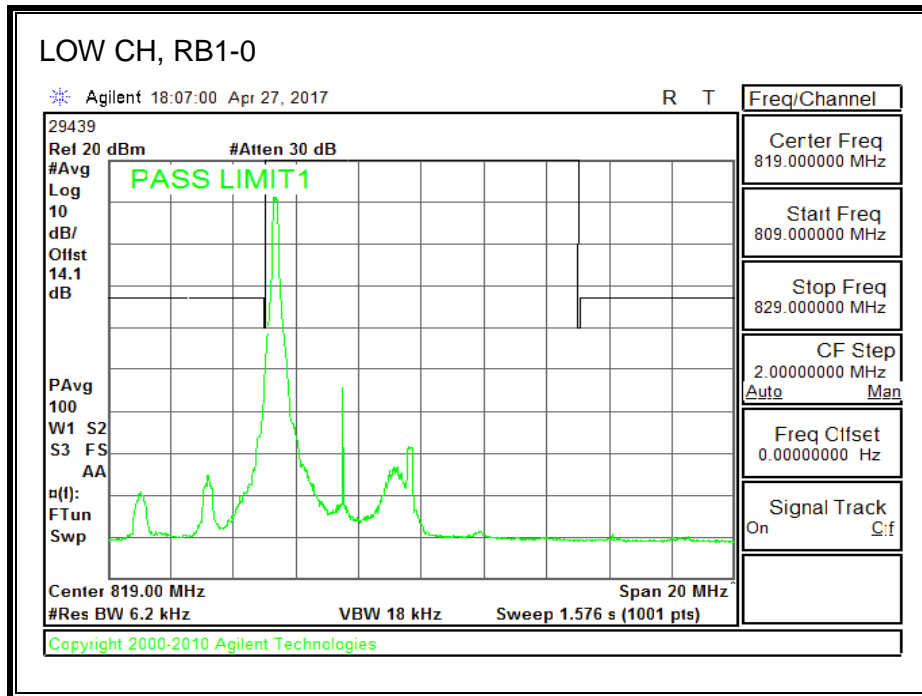


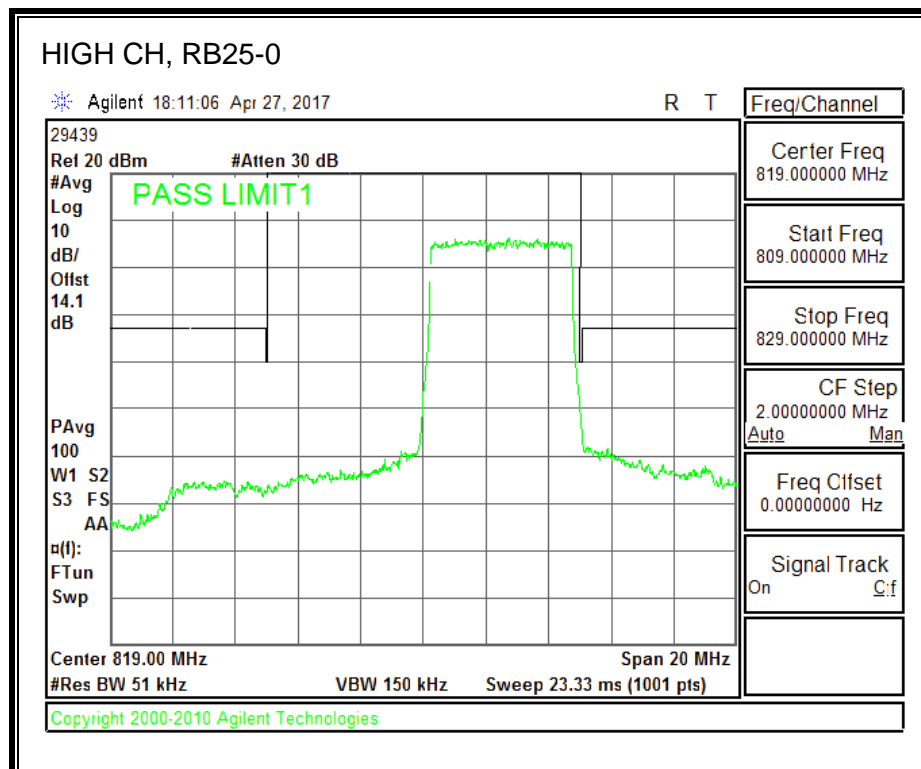
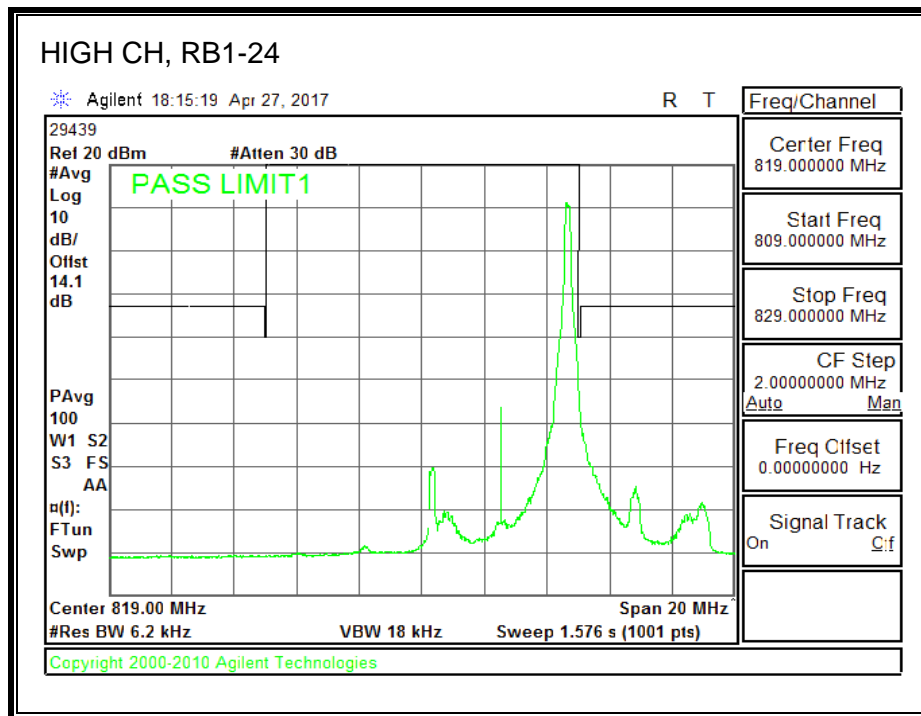
16QAM, (3.0 MHz BAND WIDTH)



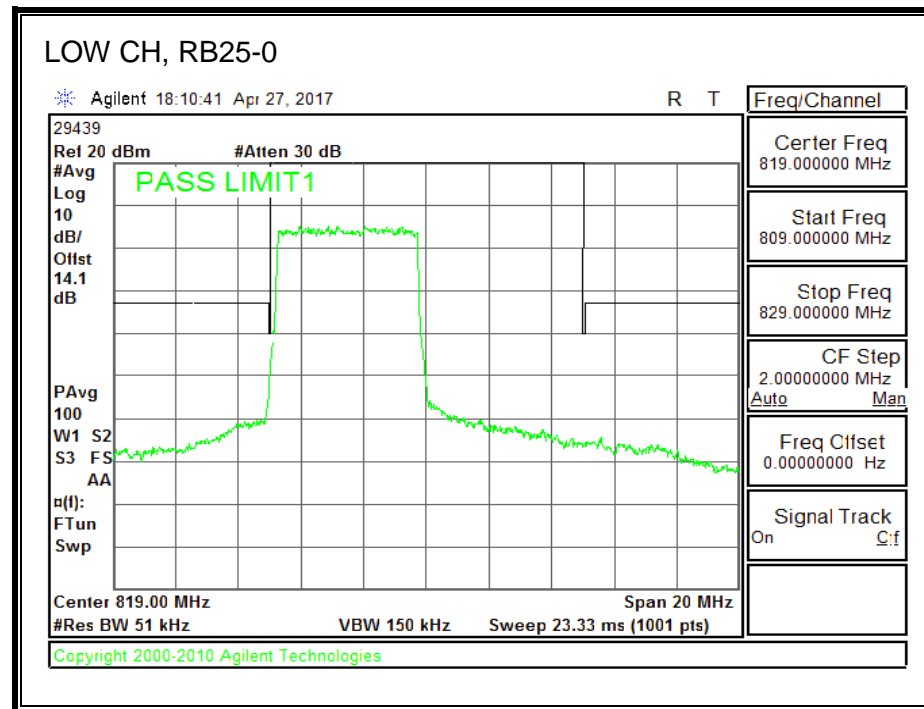
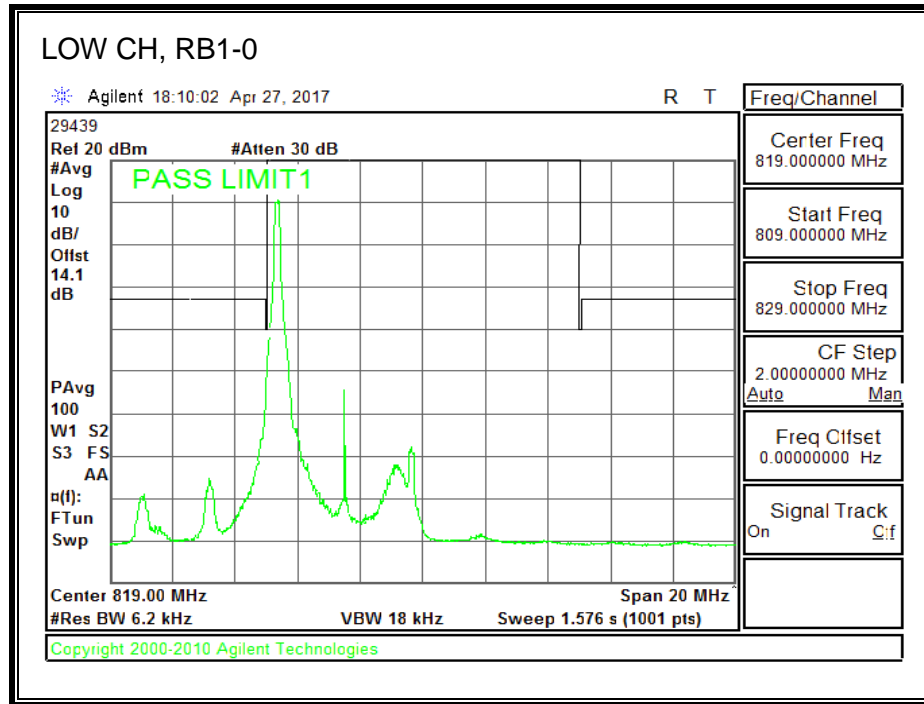


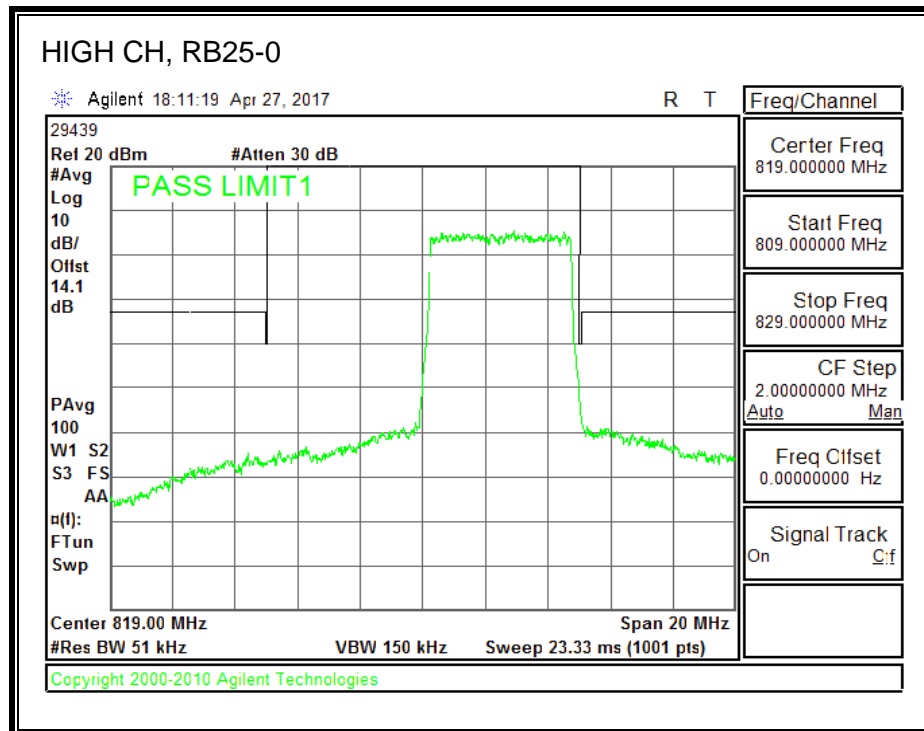
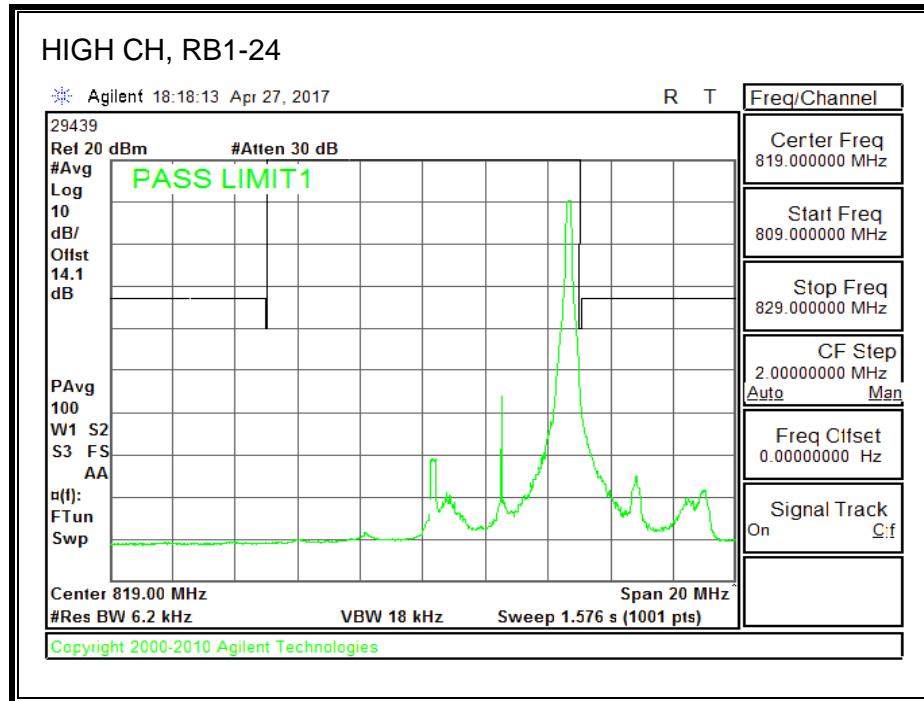
QPSK, (5.0 MHz BAND WIDTH)



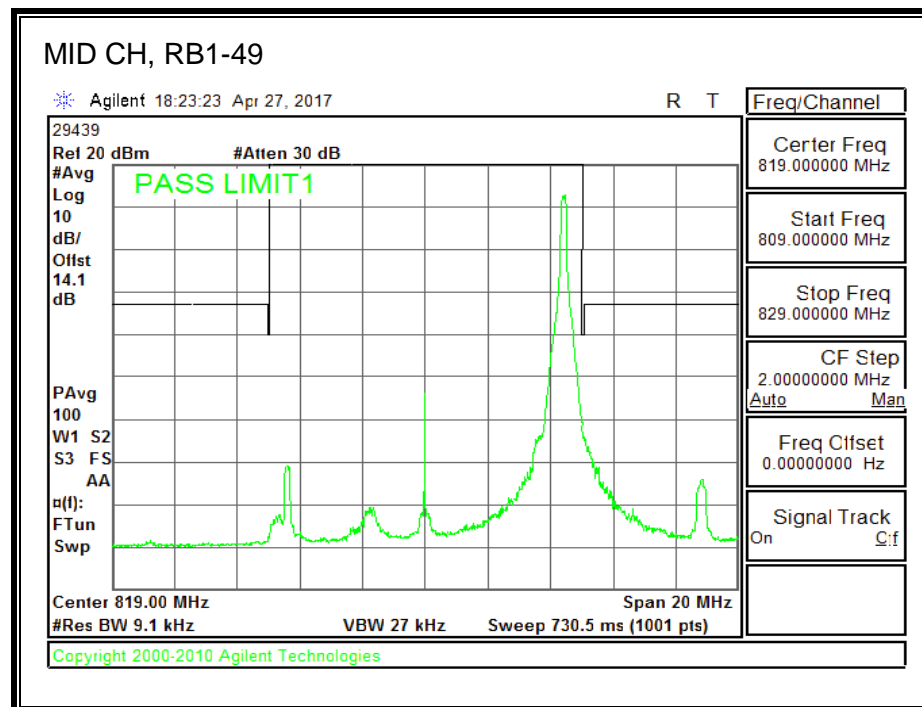
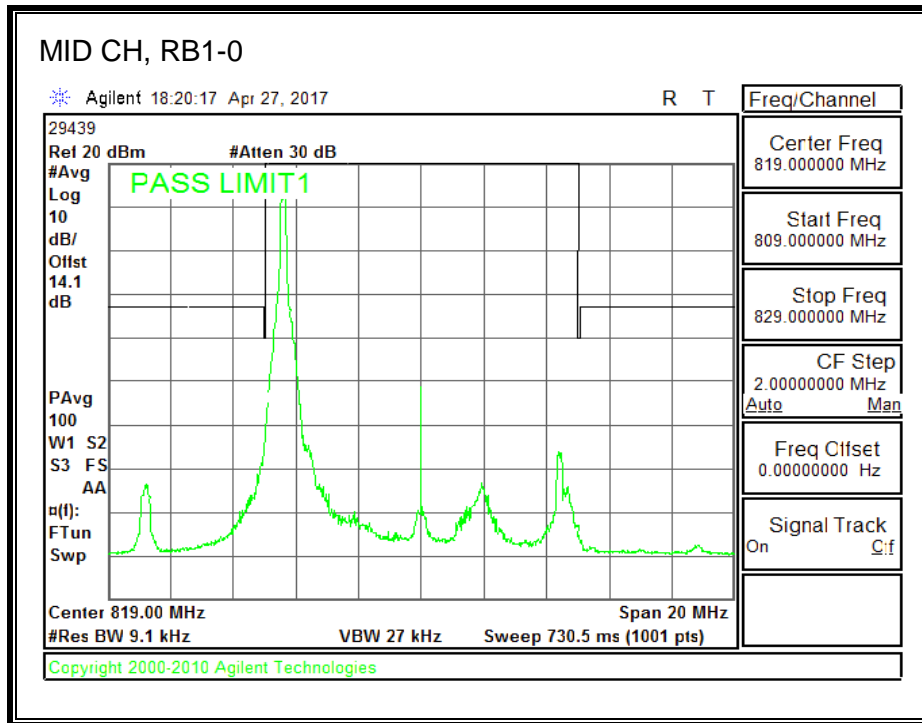


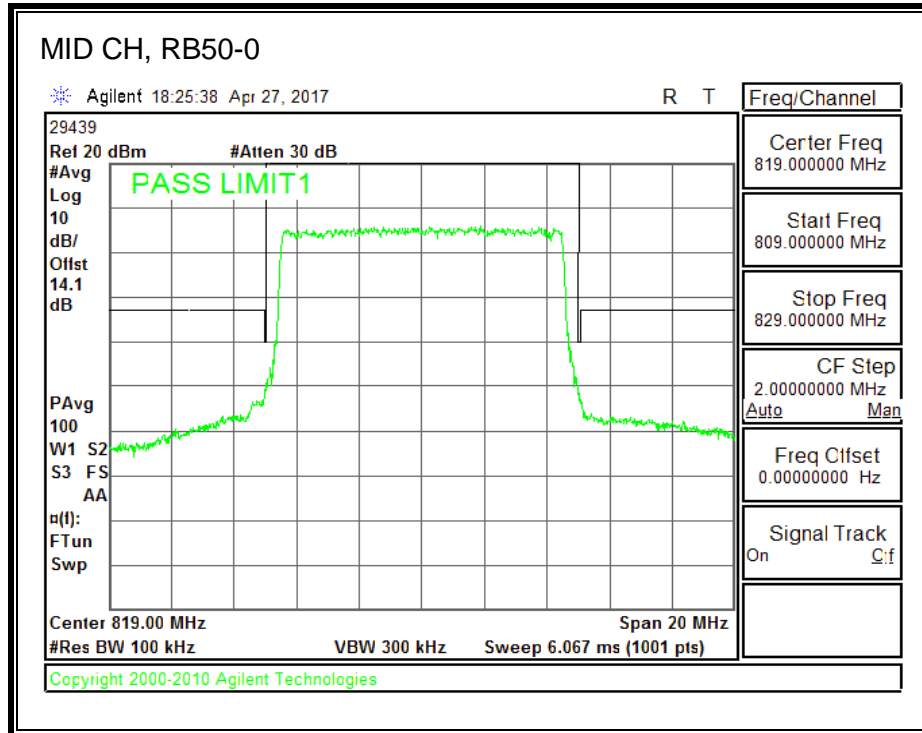
16QAM, (5.0 MHz BAND WIDTH)



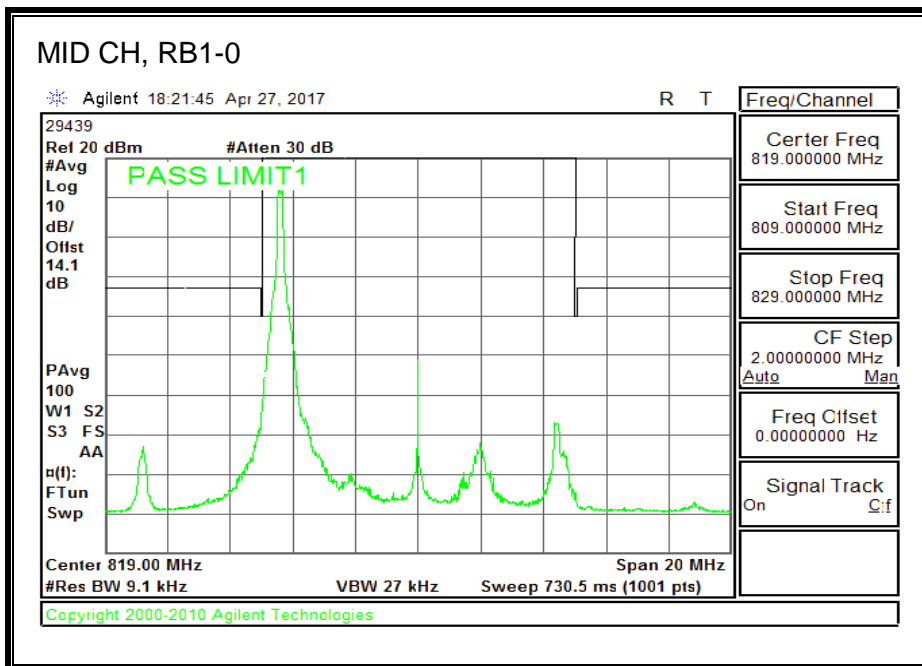


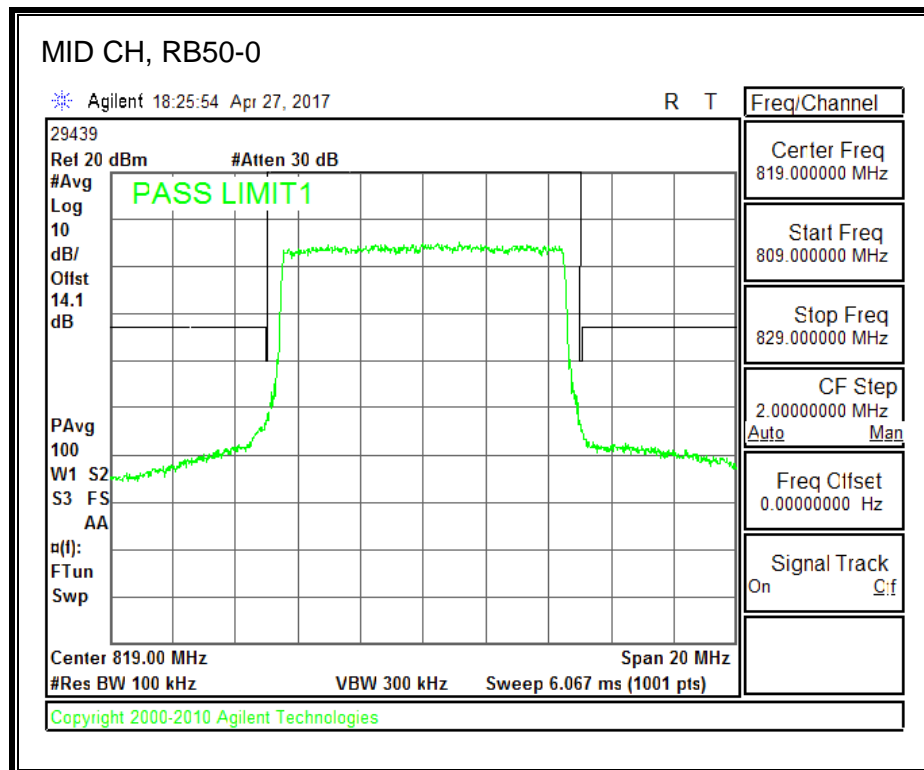
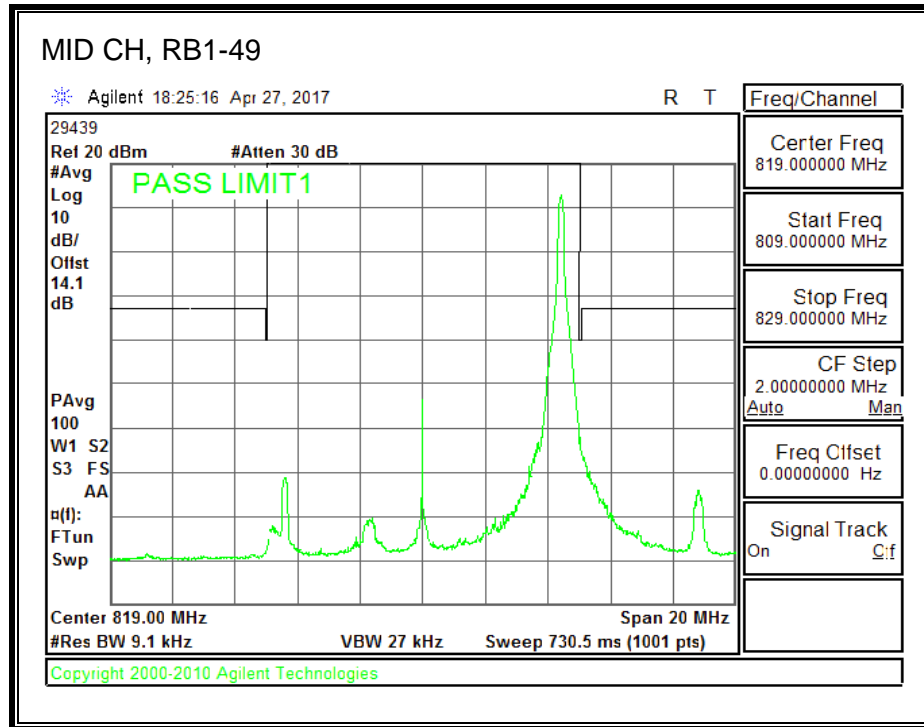
QPSK, (10.0 MHz BAND WIDTH)





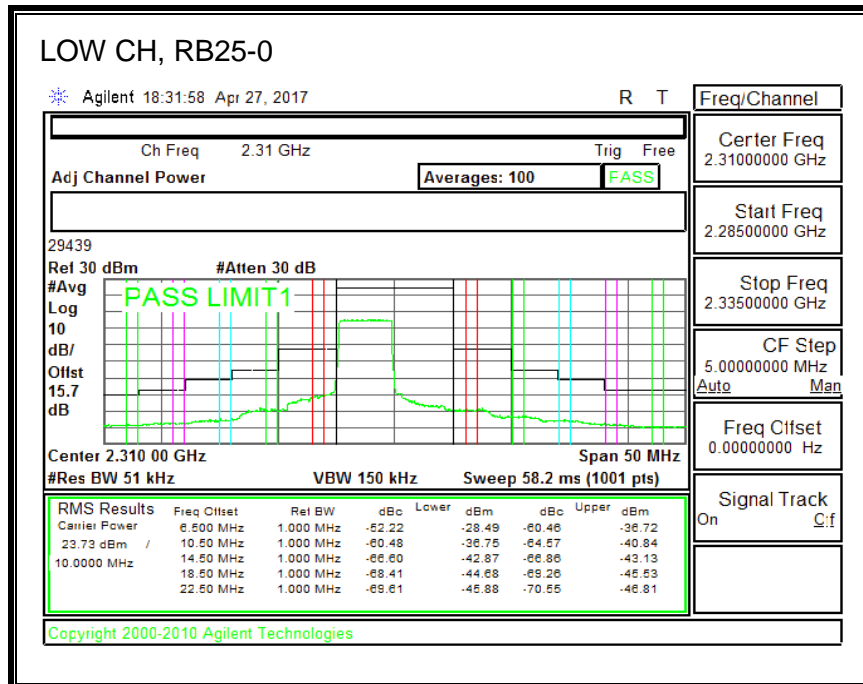
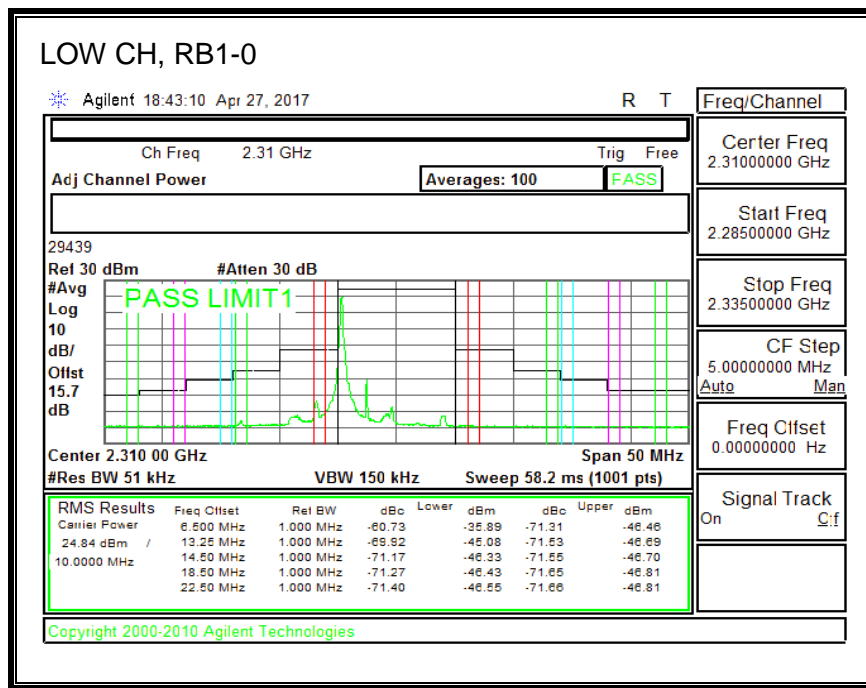
16QAM, (10.0 MHz BAND WIDTH)

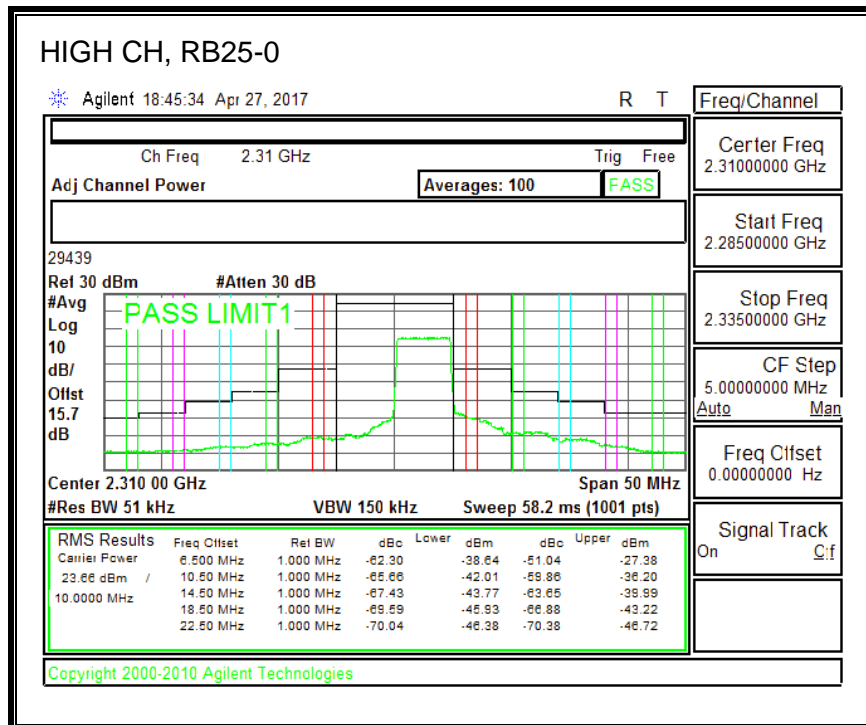
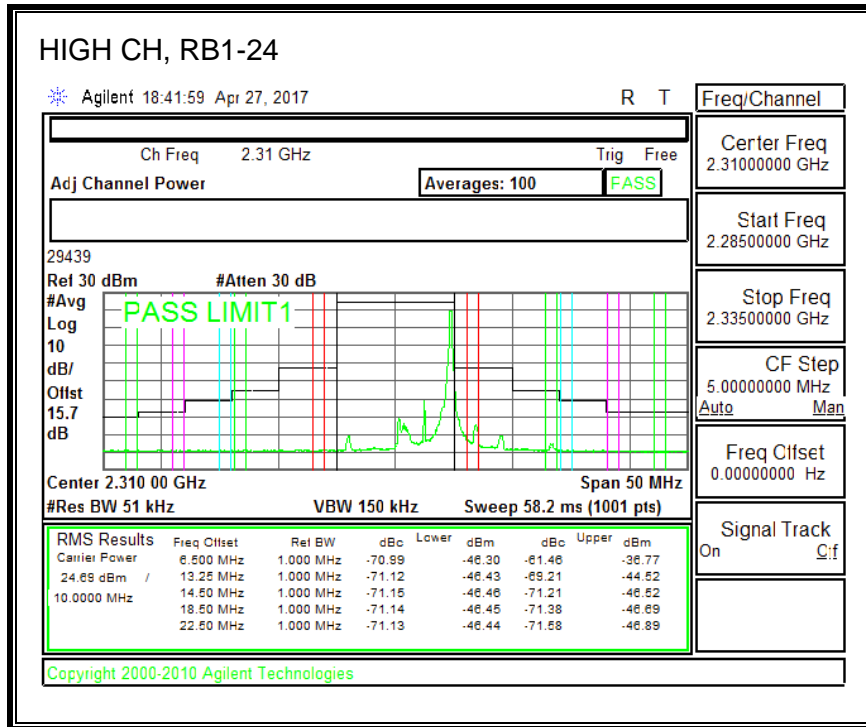




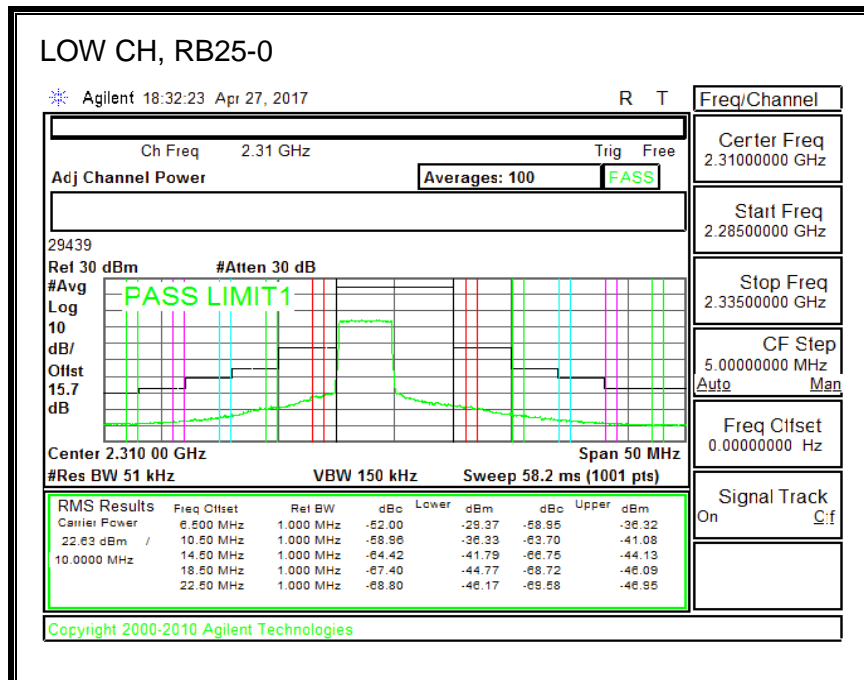
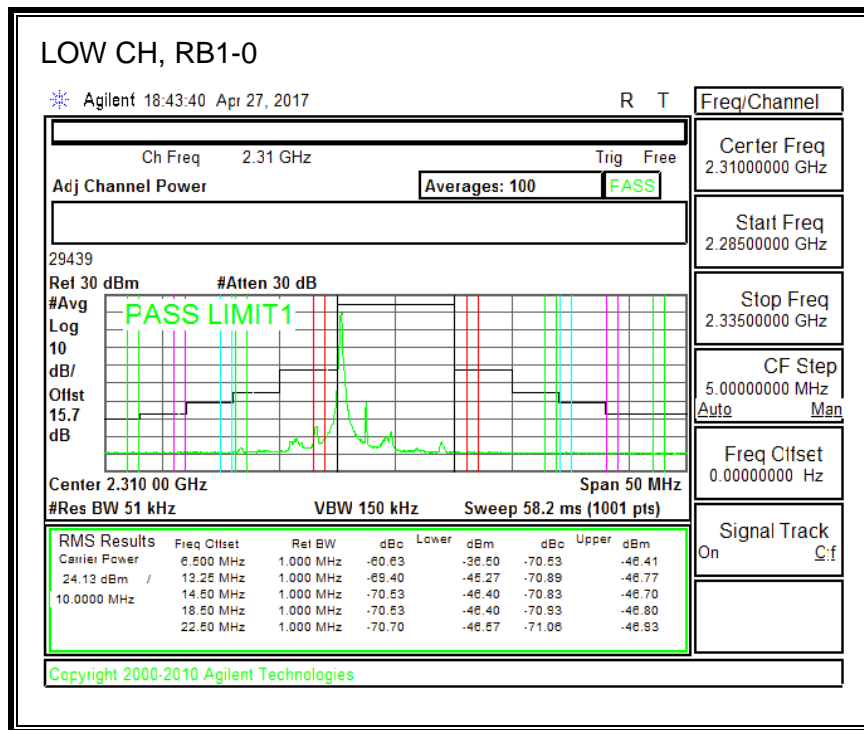
8.2.10. LTE BAND 30 ADJACENT CHANNEL POWER

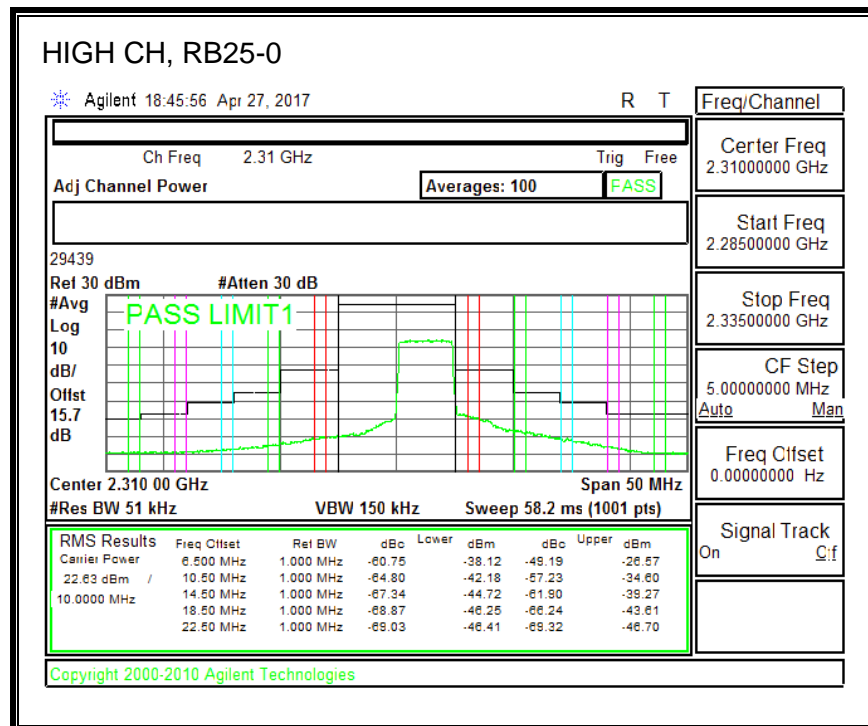
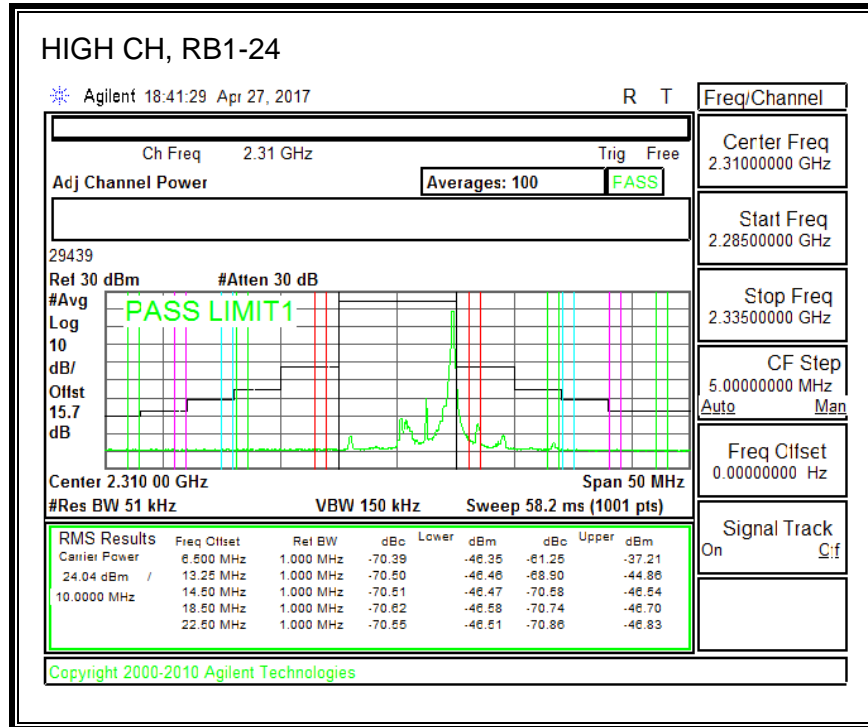
QPSK, (5.0 MHz BAND WIDTH)



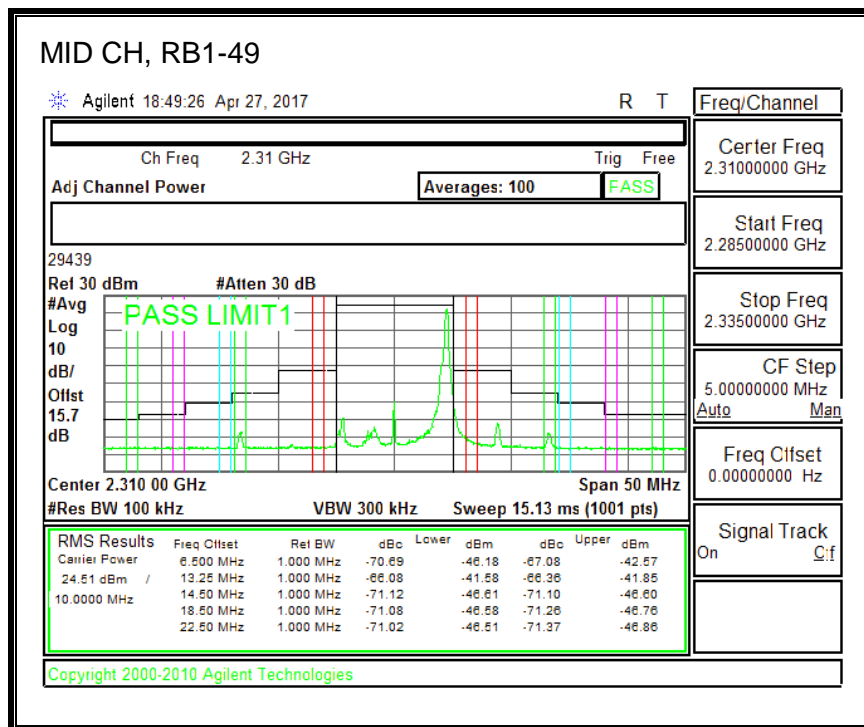
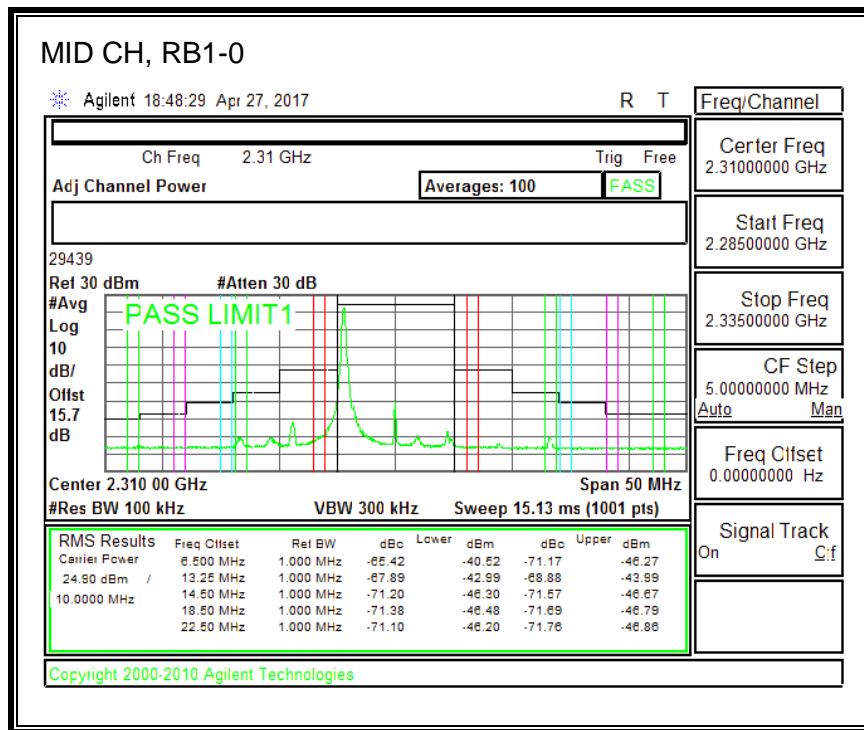


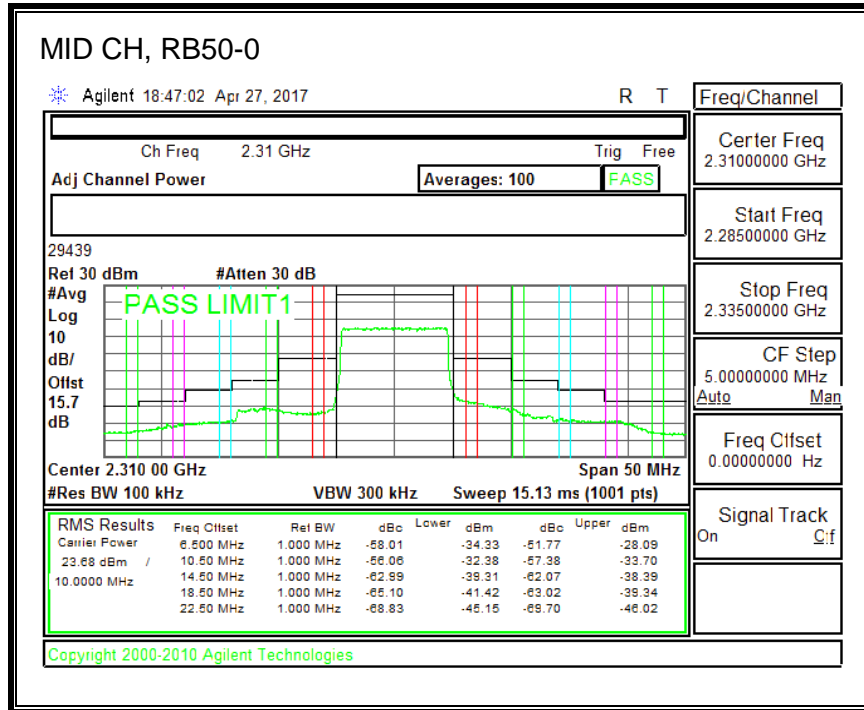
16QAM, (5.0 MHz BAND WIDTH)



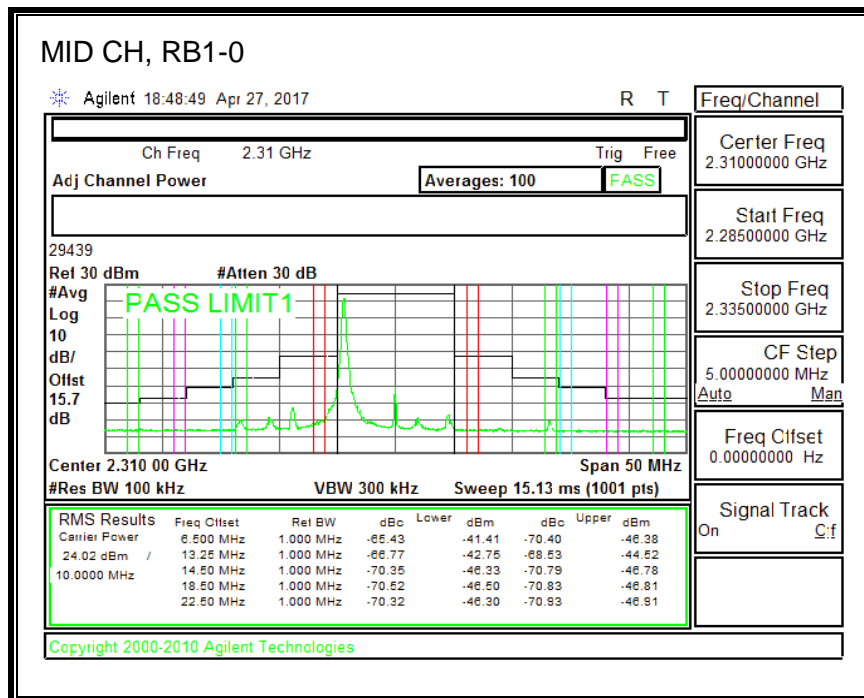


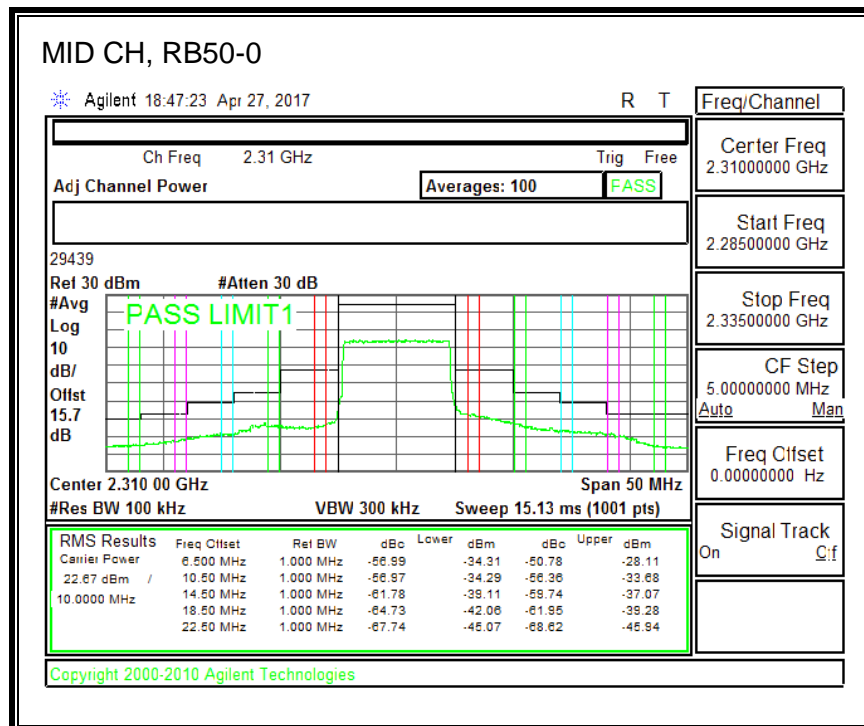
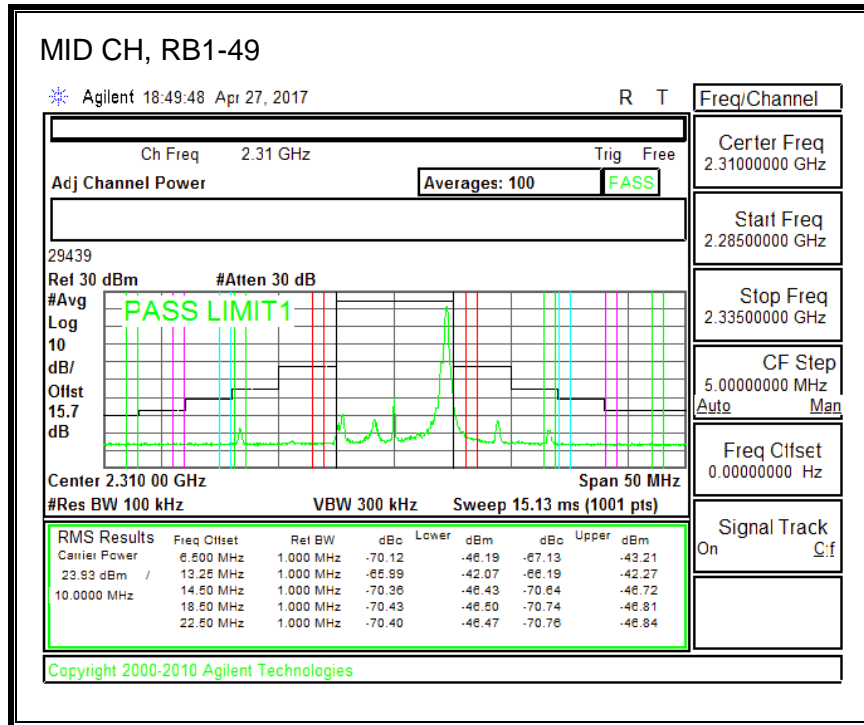
QPSK, (10.0 MHz BAND WIDTH)





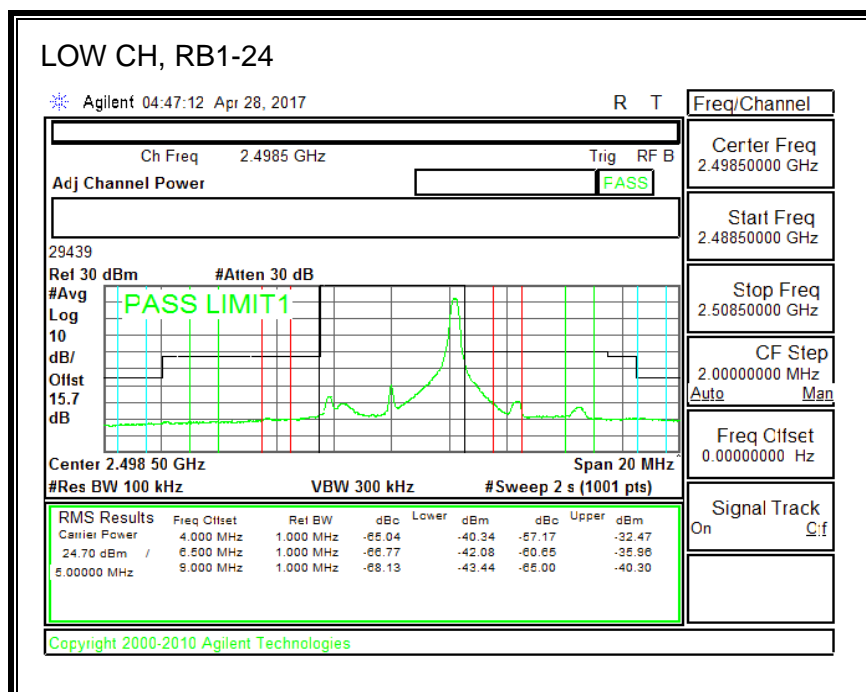
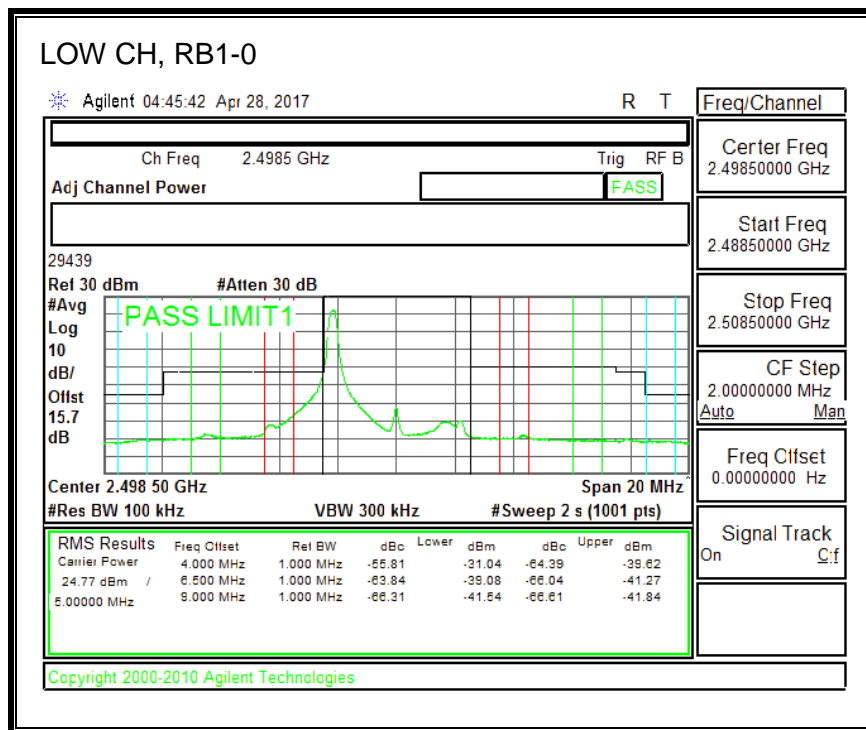
16QAM, (10.0 MHz BAND WIDTH)

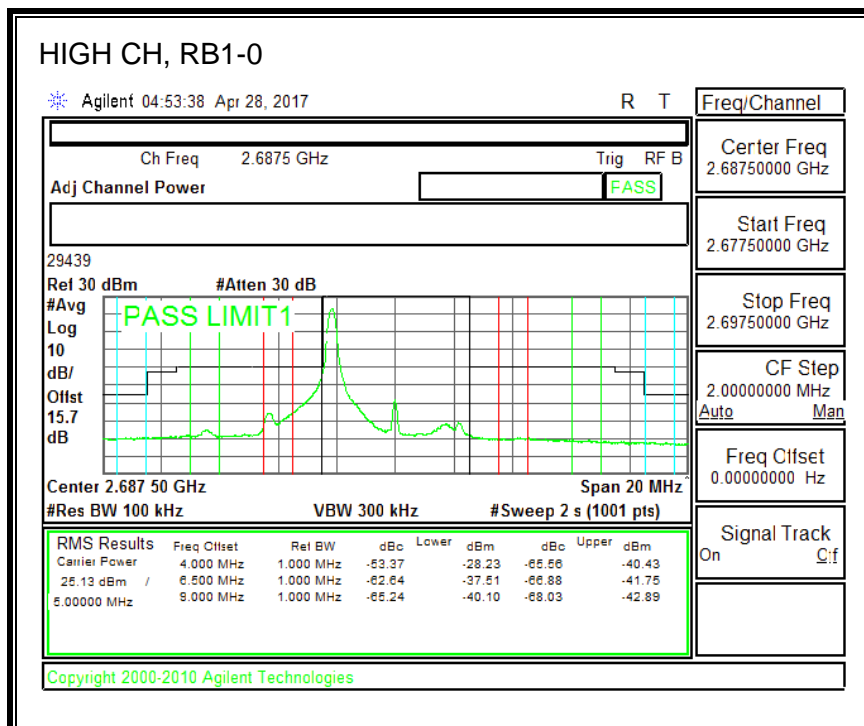
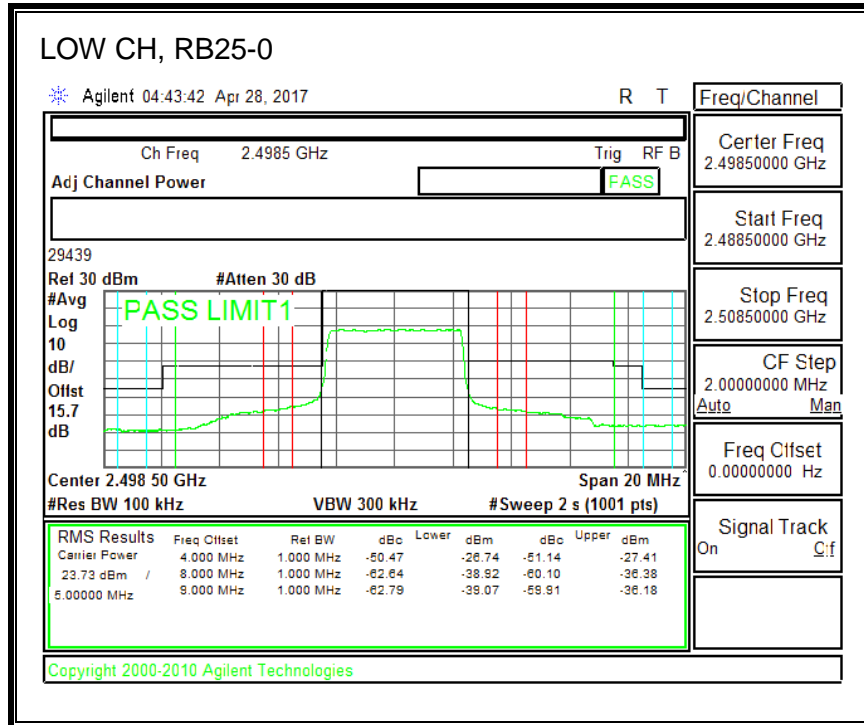


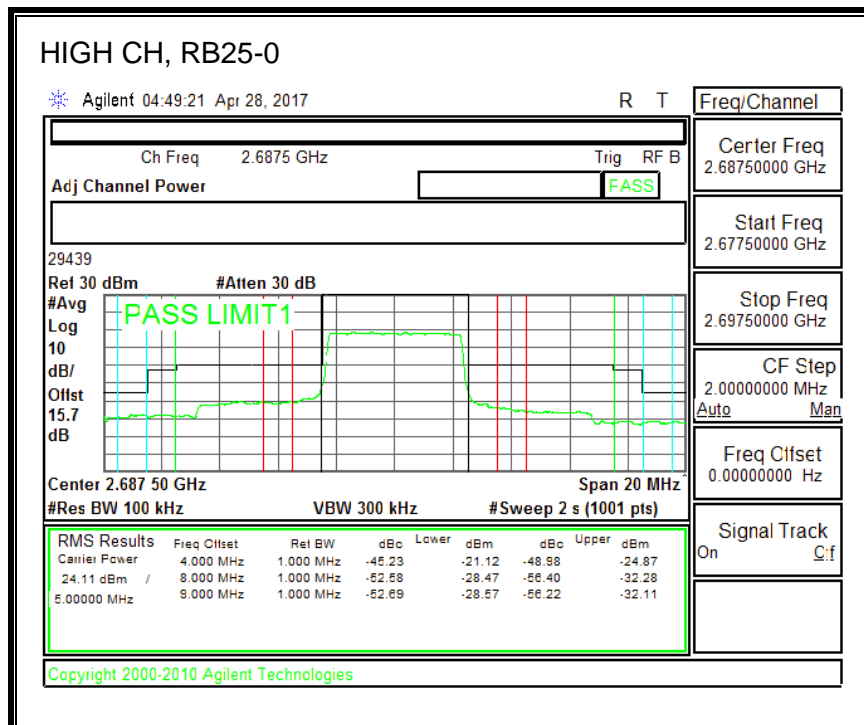
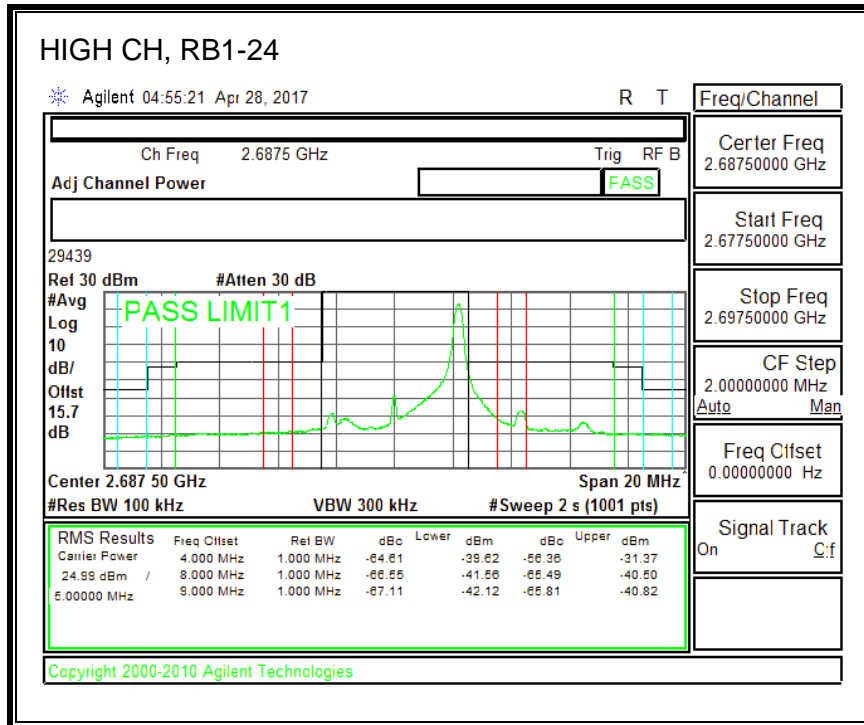


8.2.11. LTE BAND 41 ADJACENT CHANNEL POWER

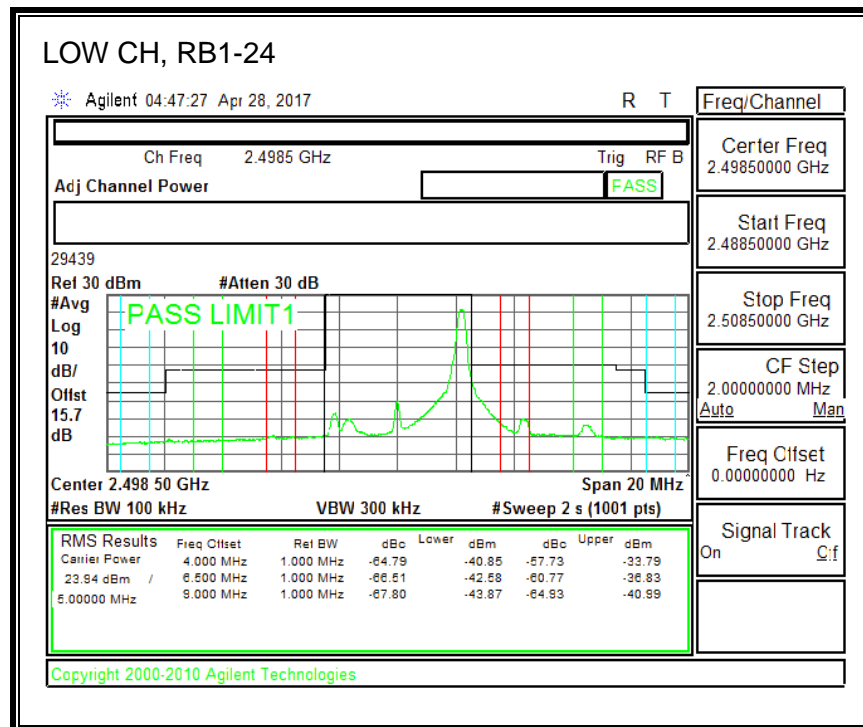
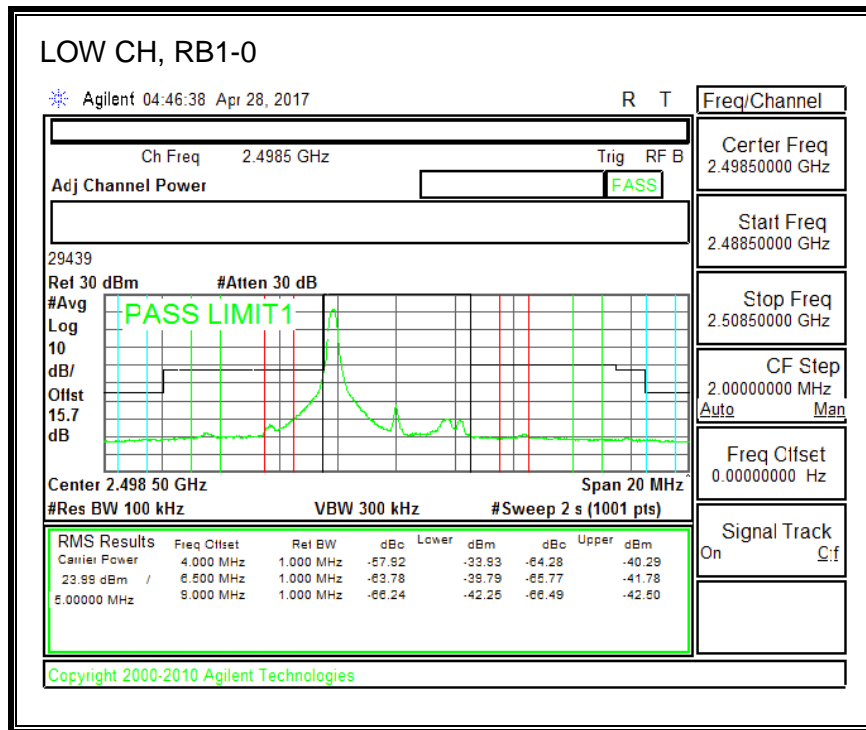
QPSK, (5.0 MHz BAND WIDTH)

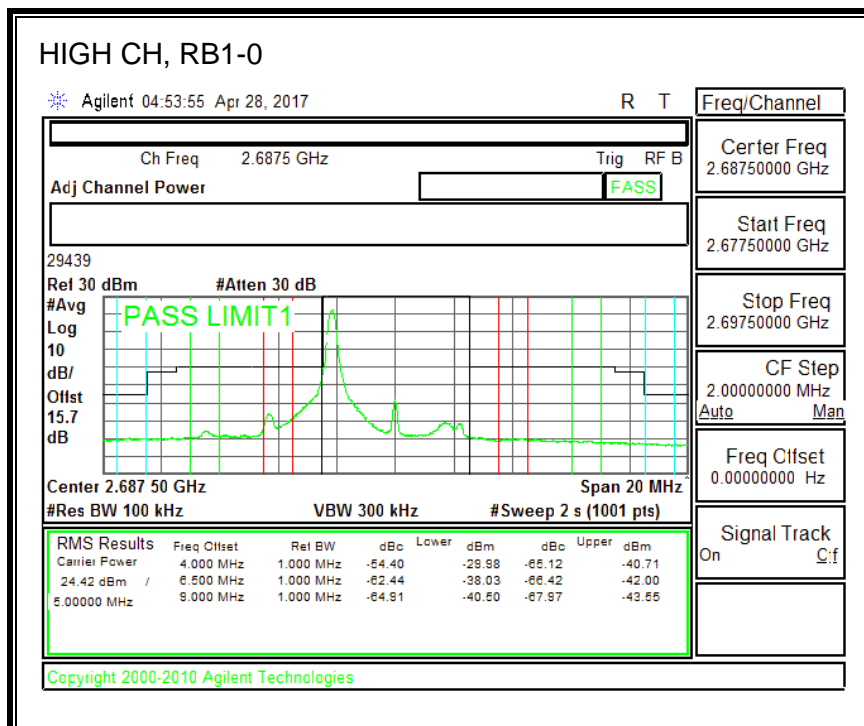
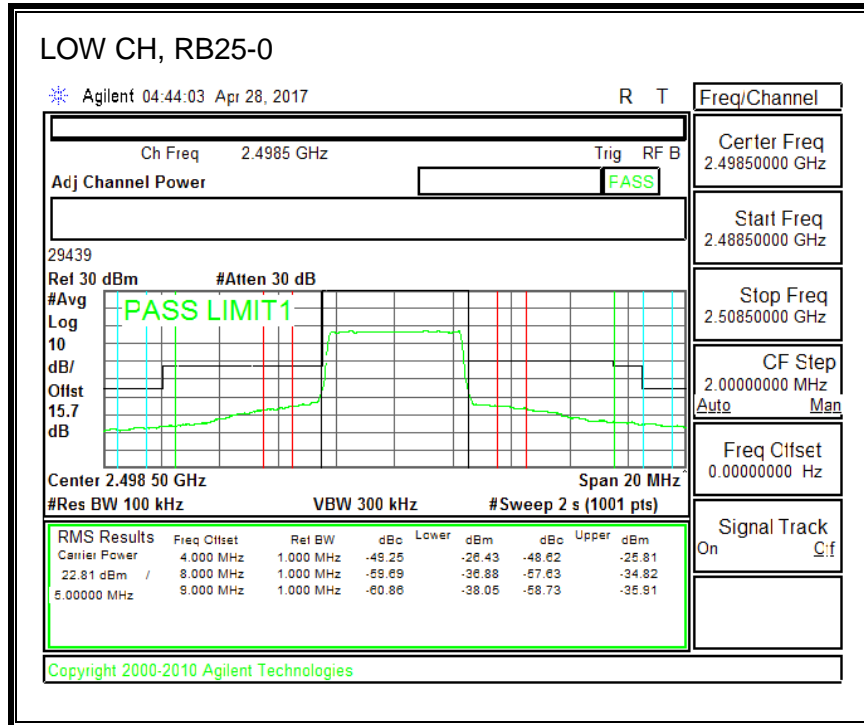


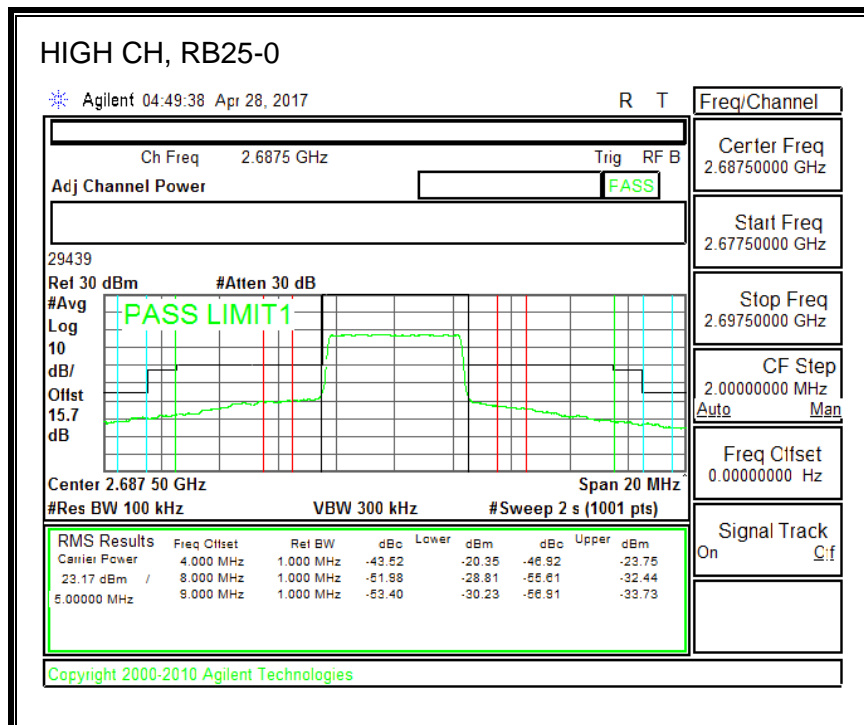
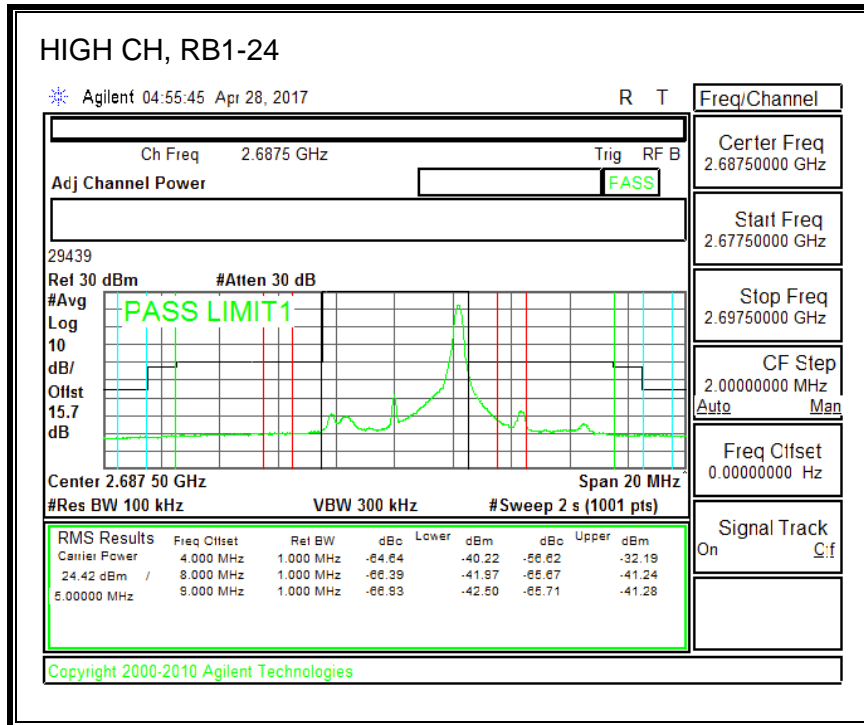




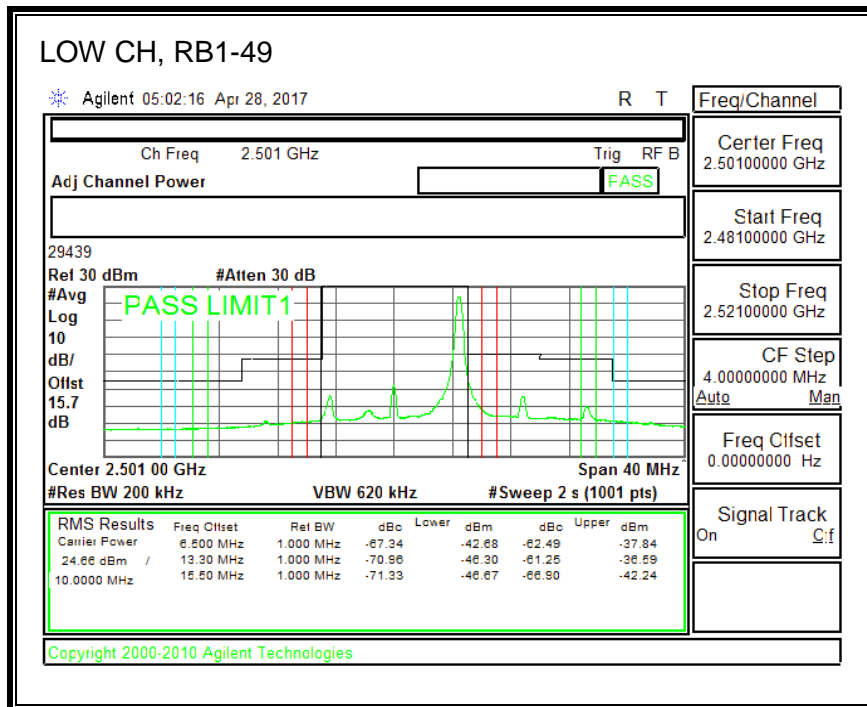
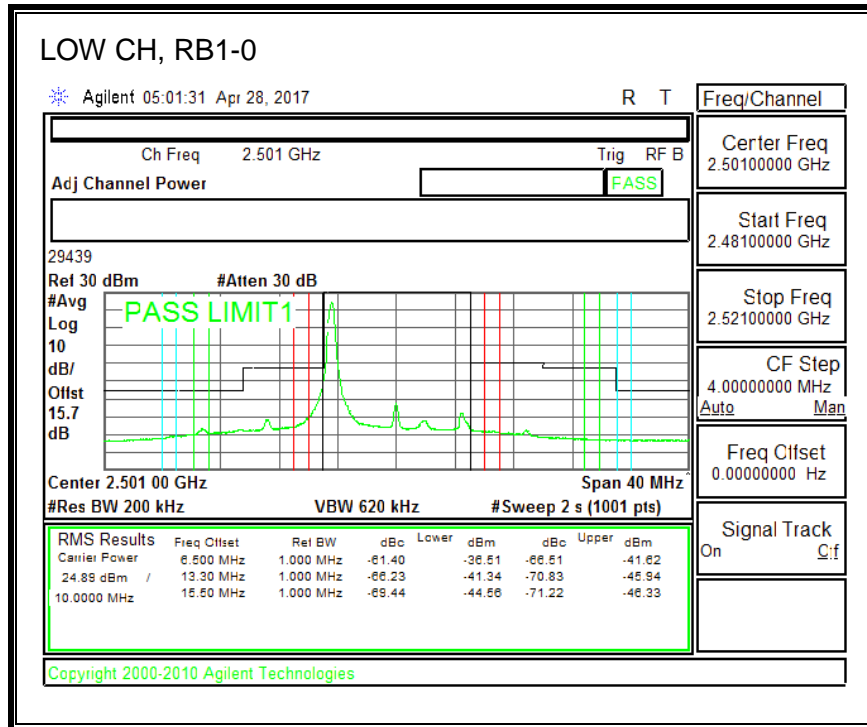
16QAM, (5.0 MHz BAND WIDTH)

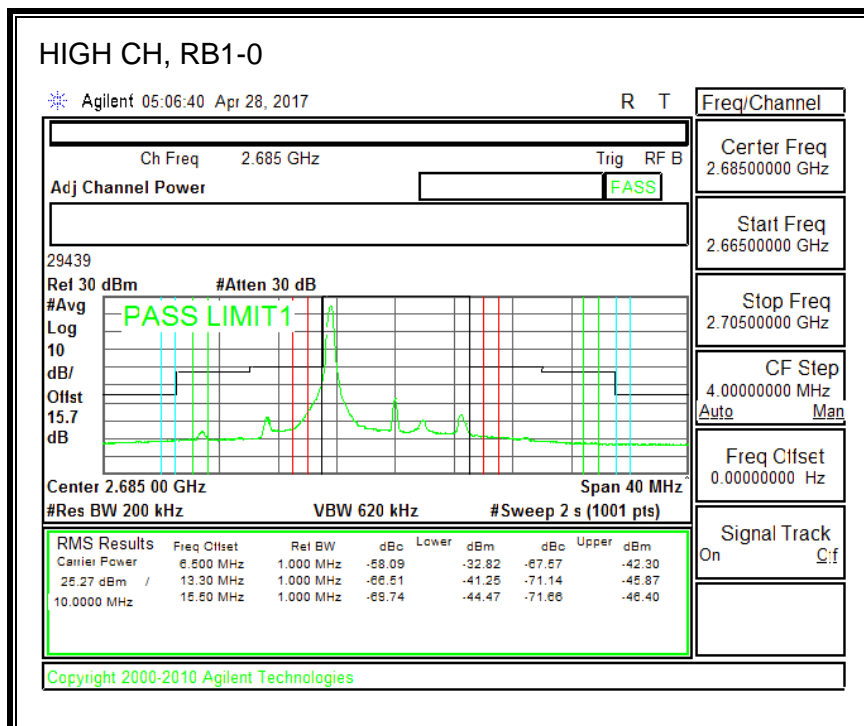
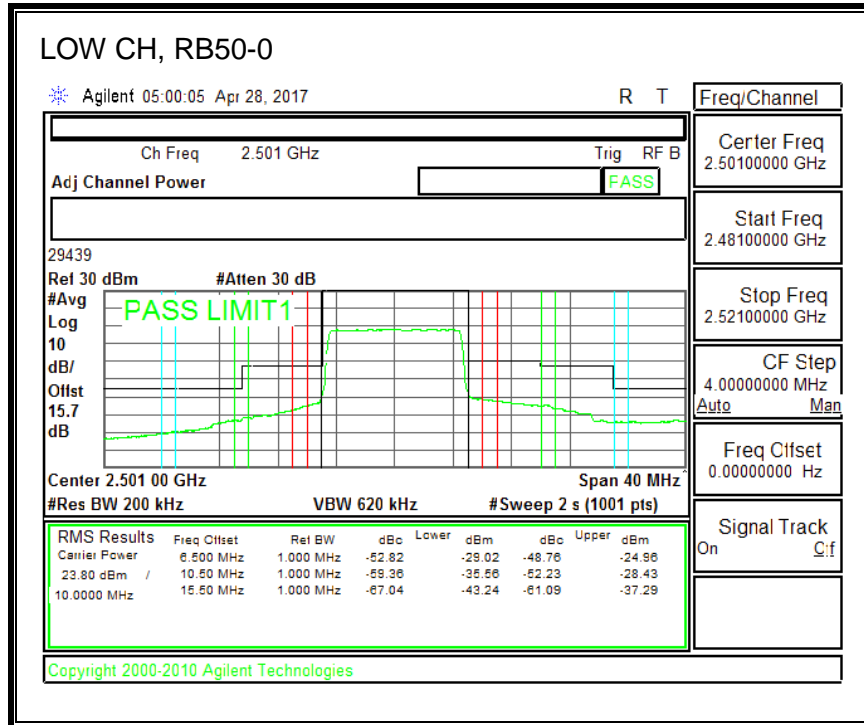


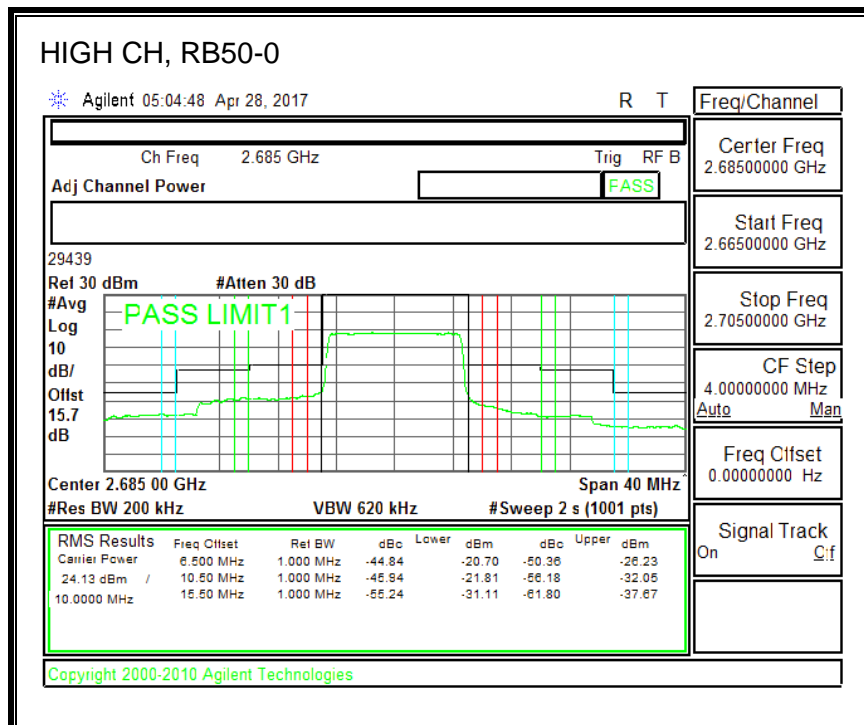
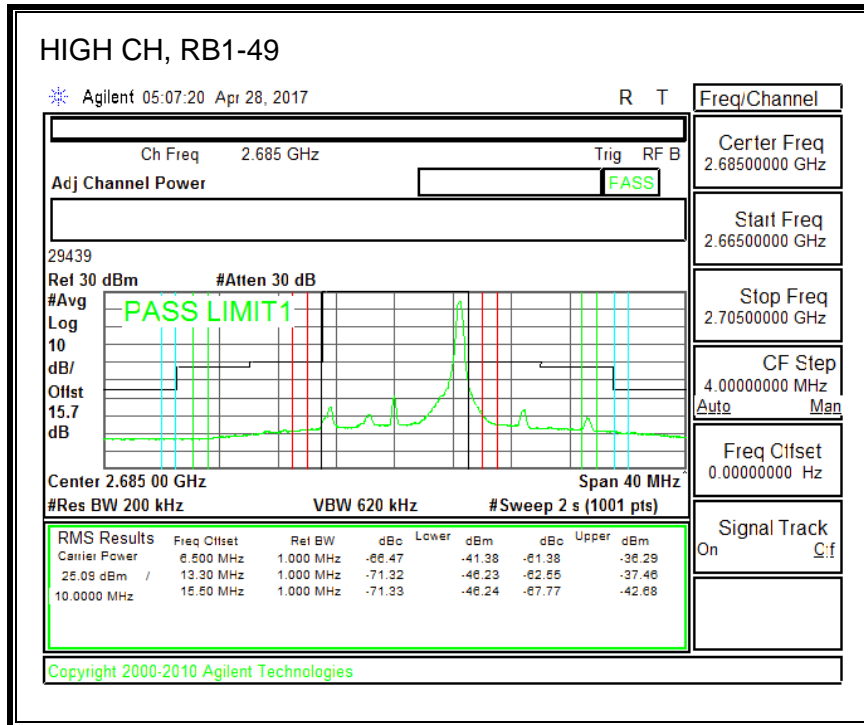




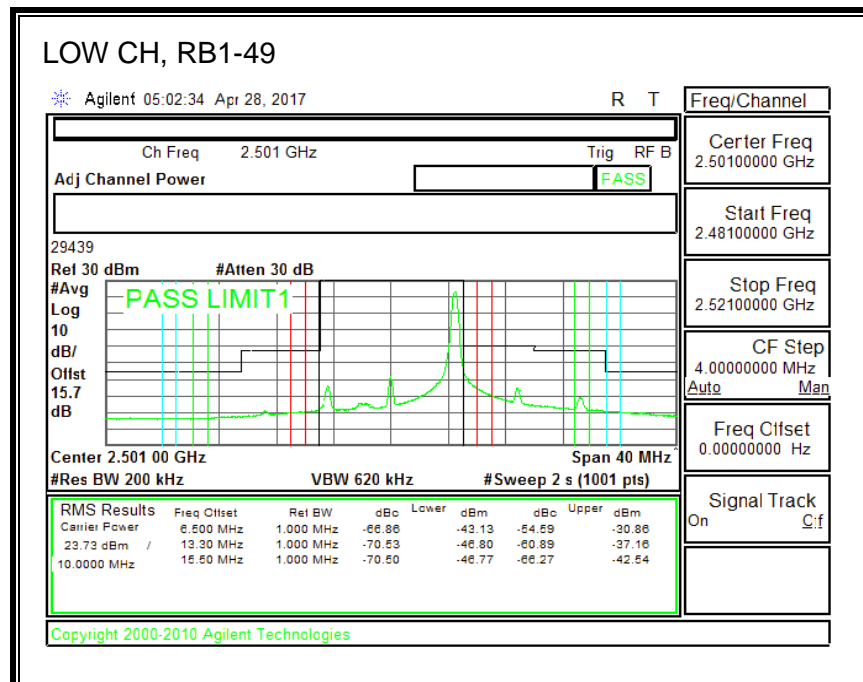
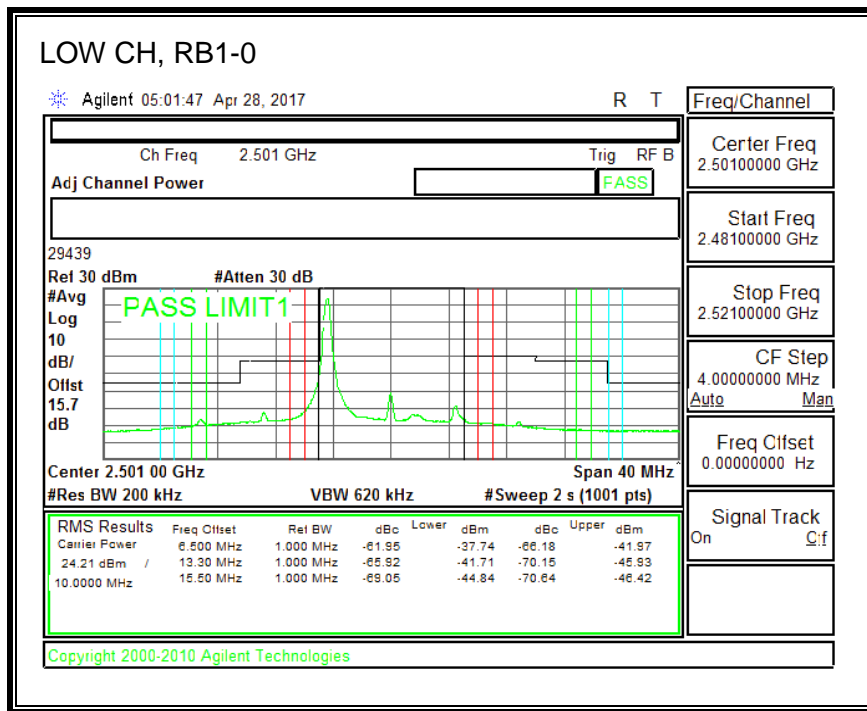
QPSK, (10.0 MHz BAND WIDTH)

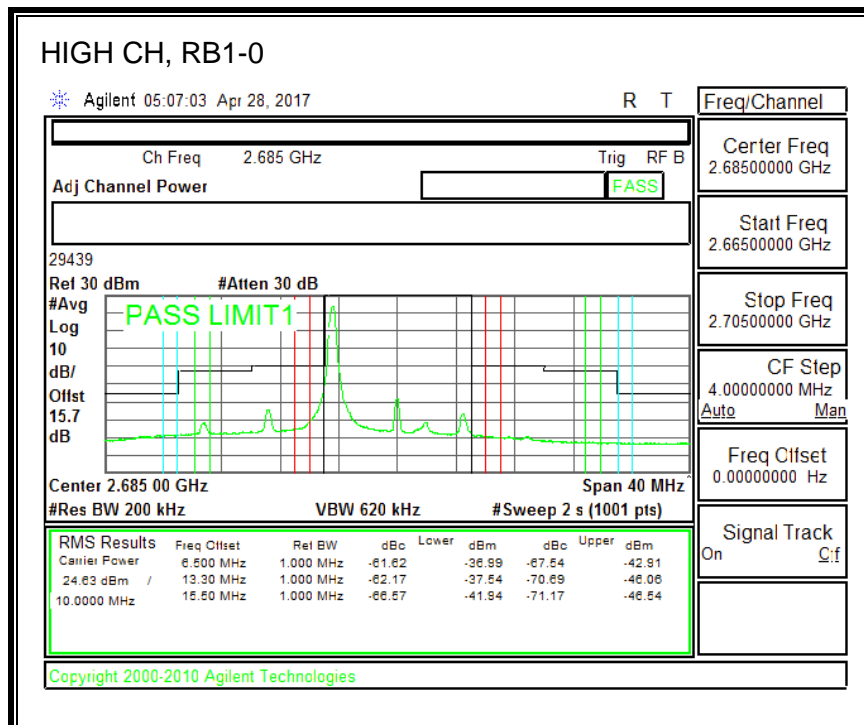
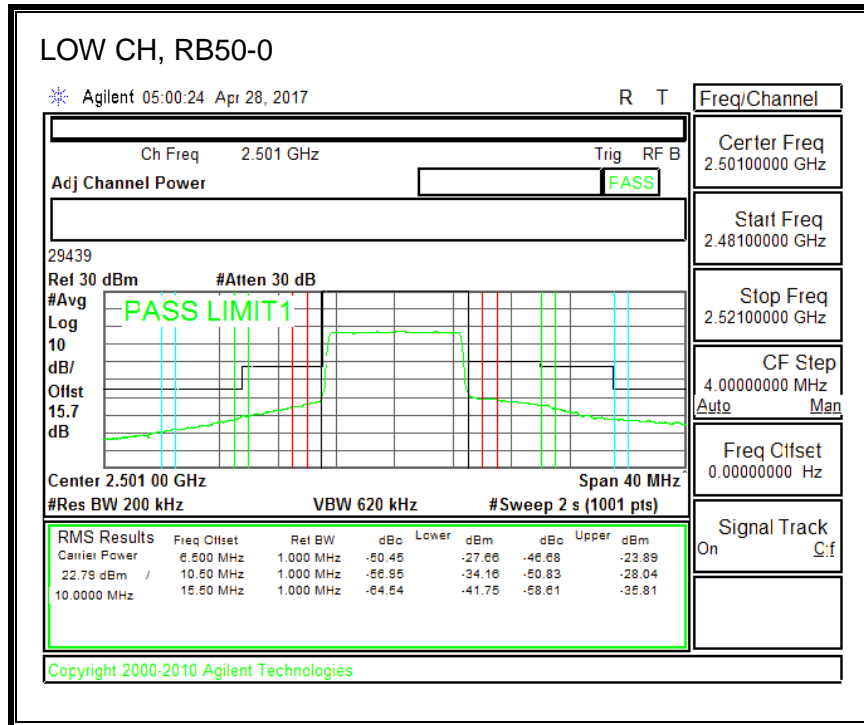


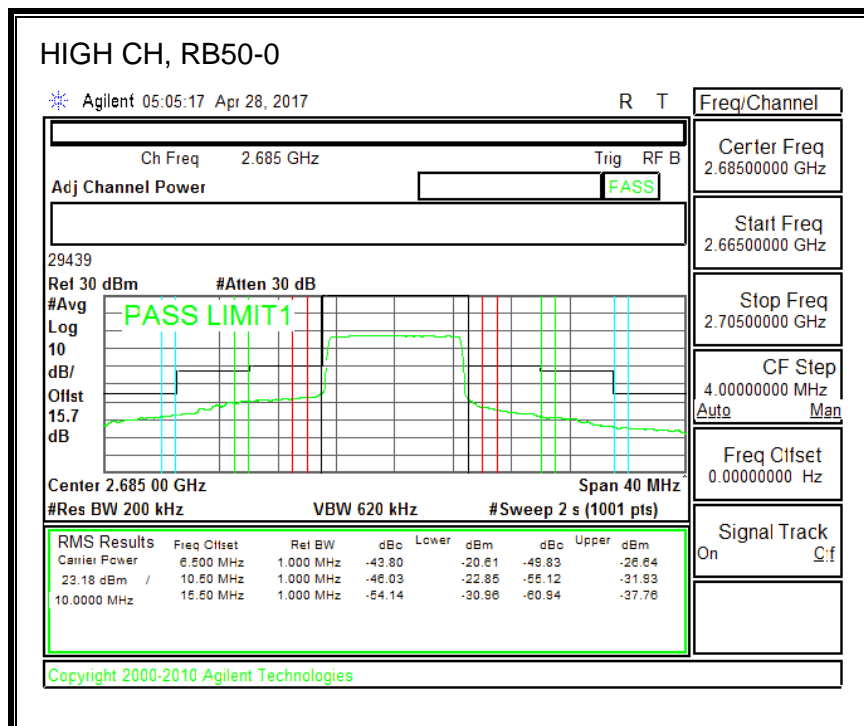
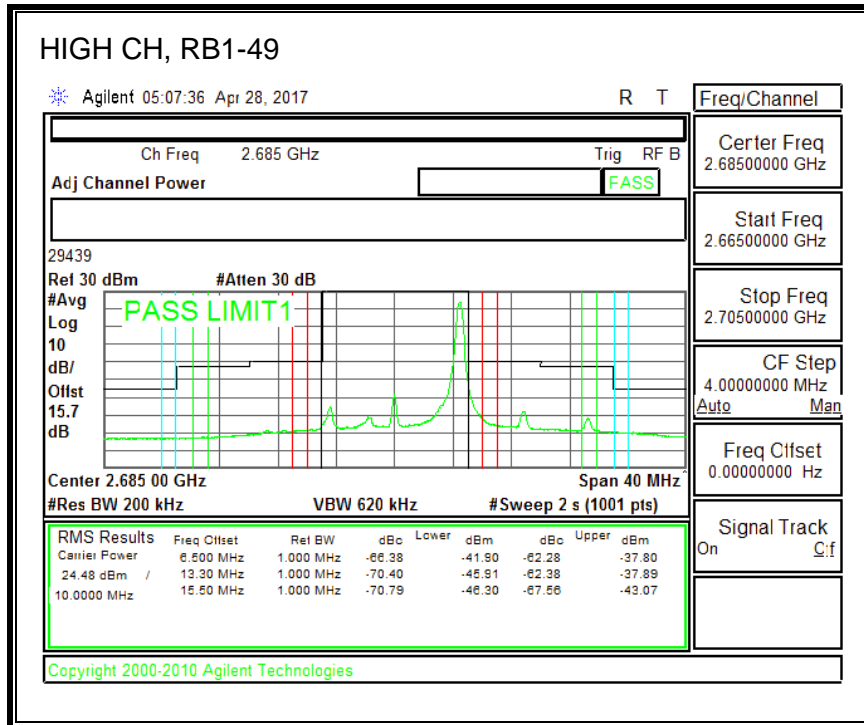




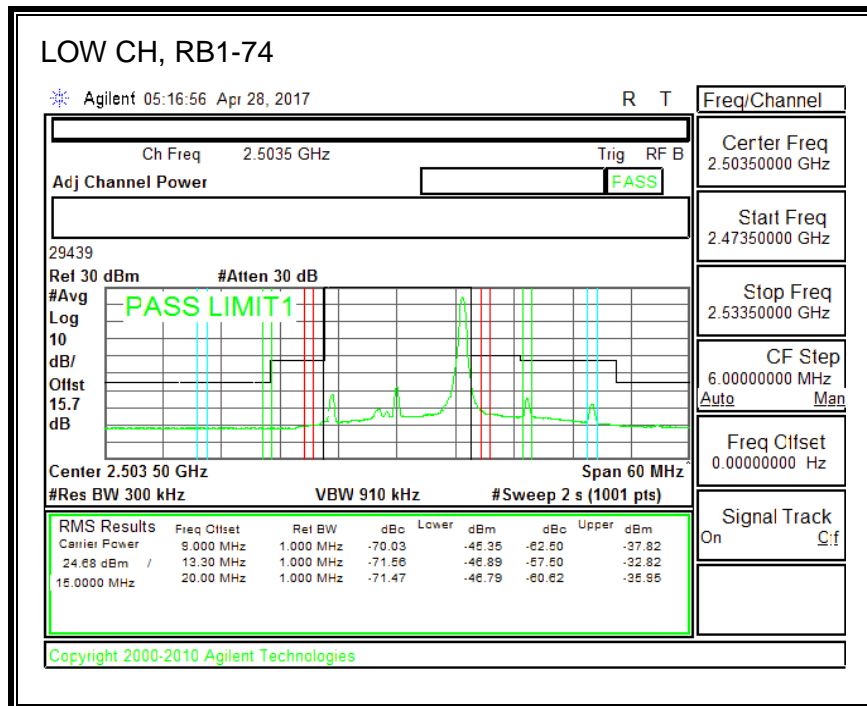
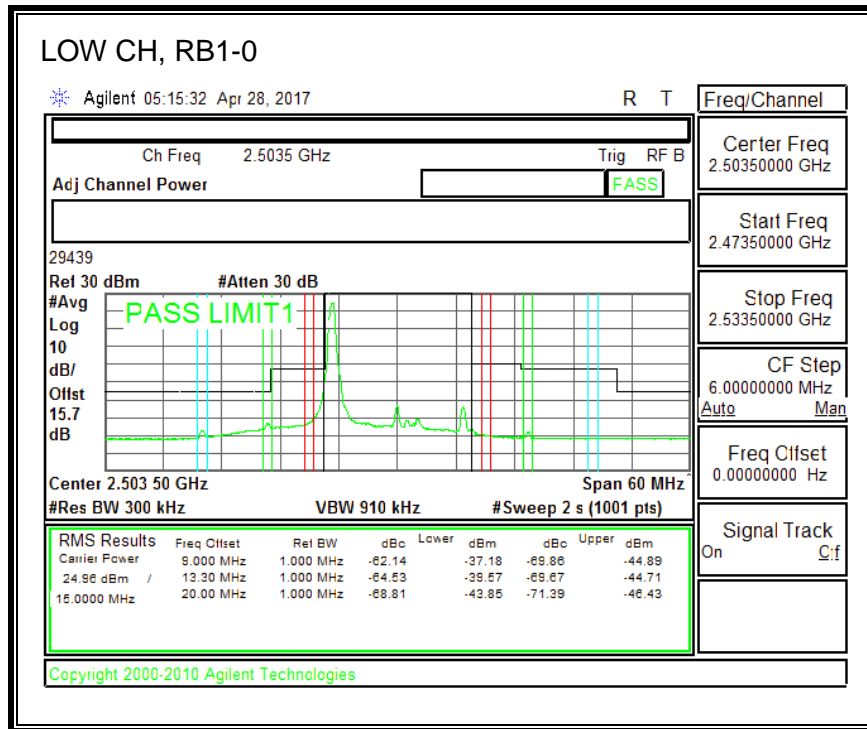
16QAM, (10.0 MHz BAND WIDTH)

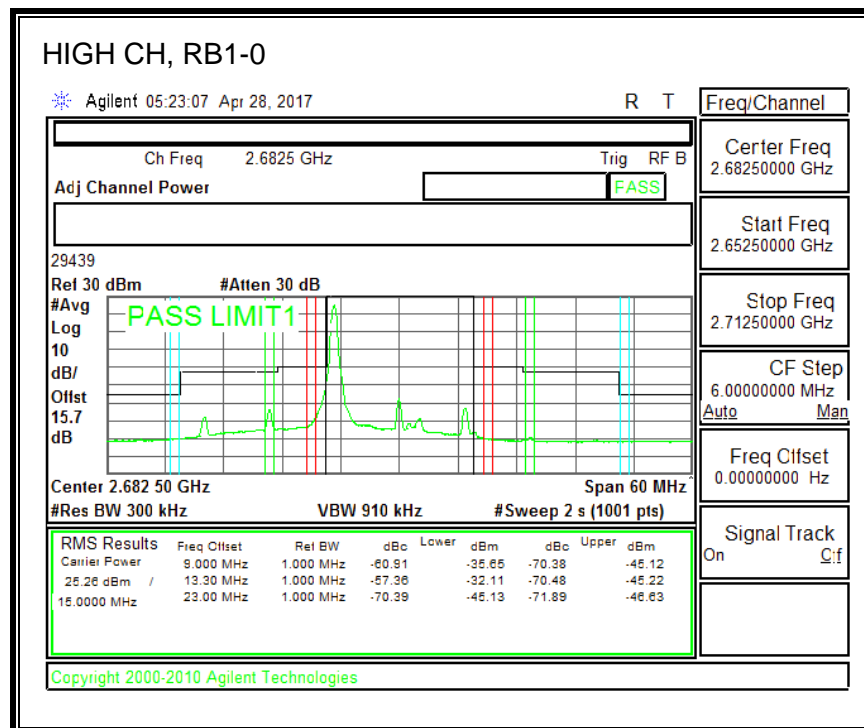
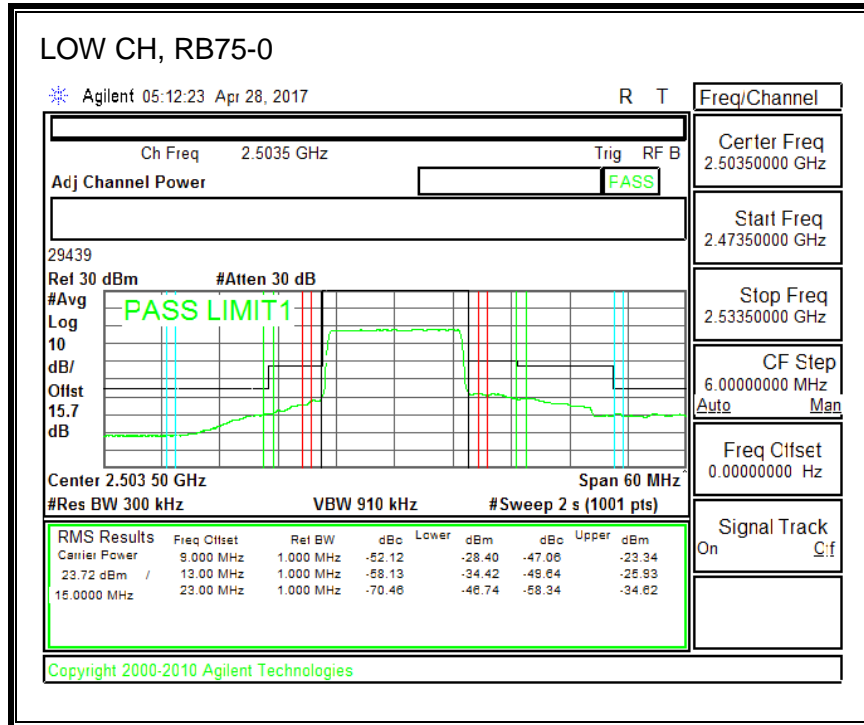


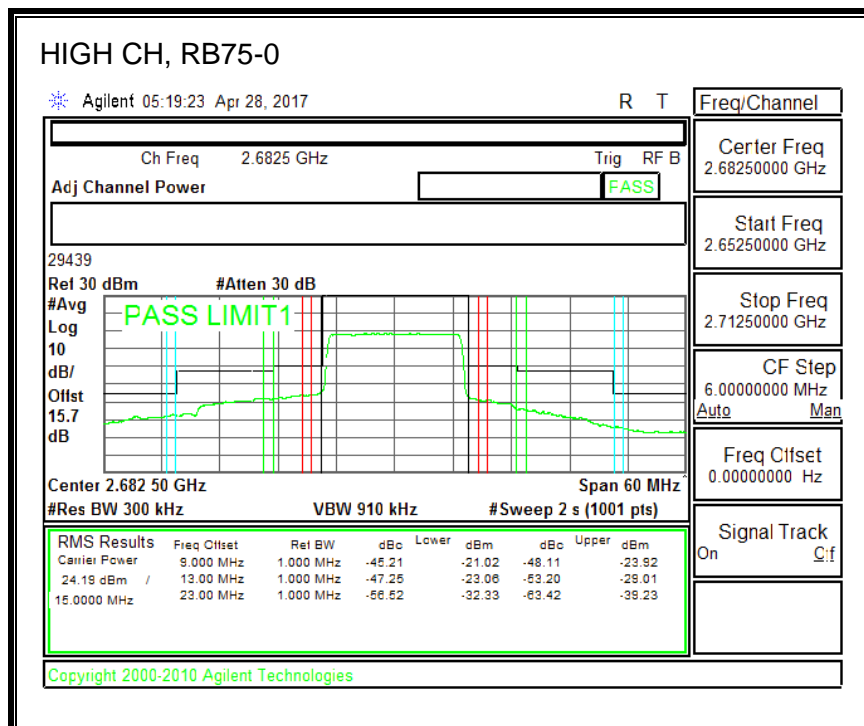
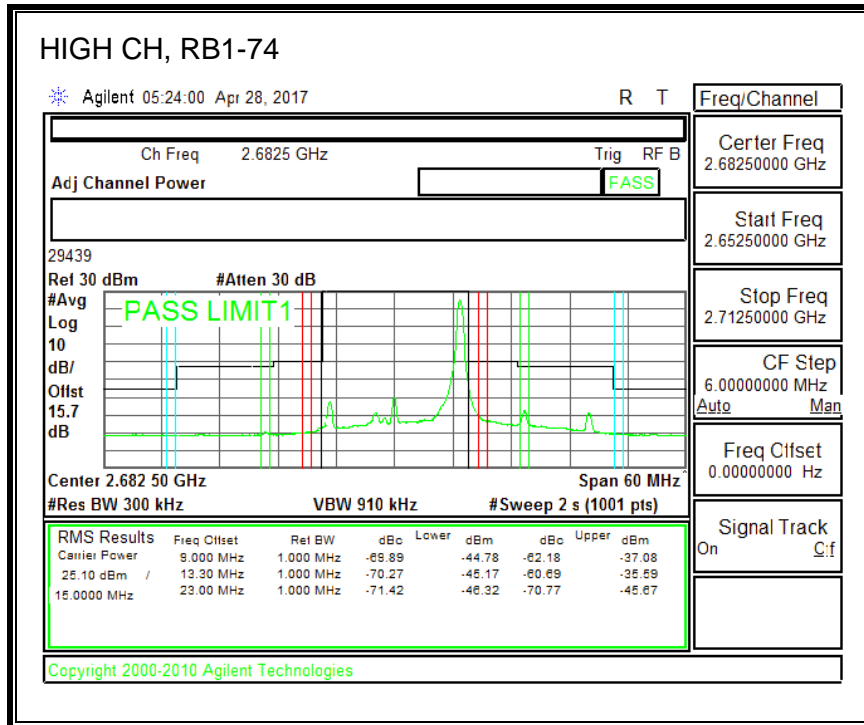




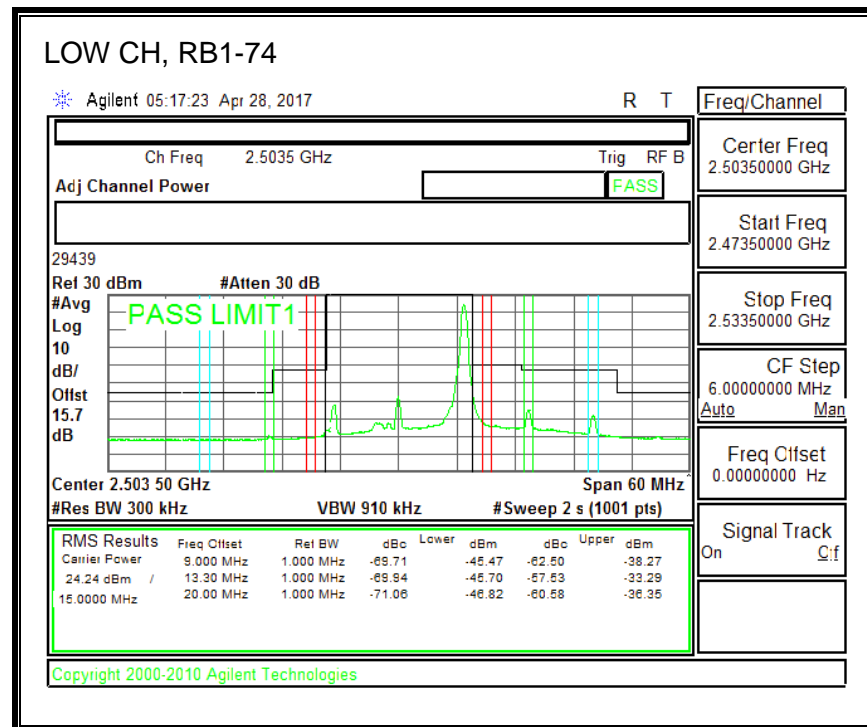
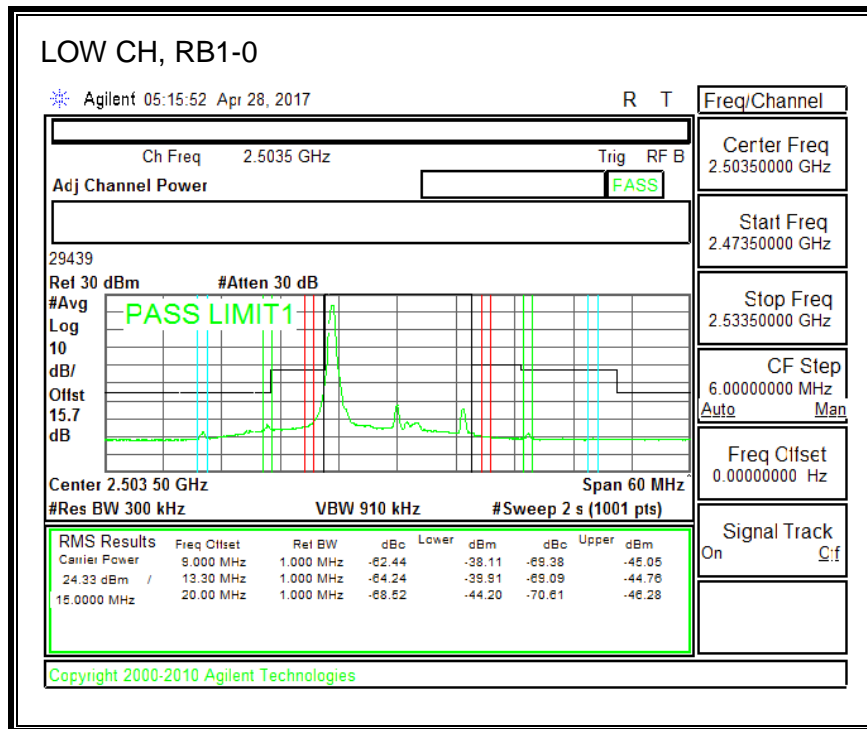
QPSK, (15.0 MHz BAND WIDTH)

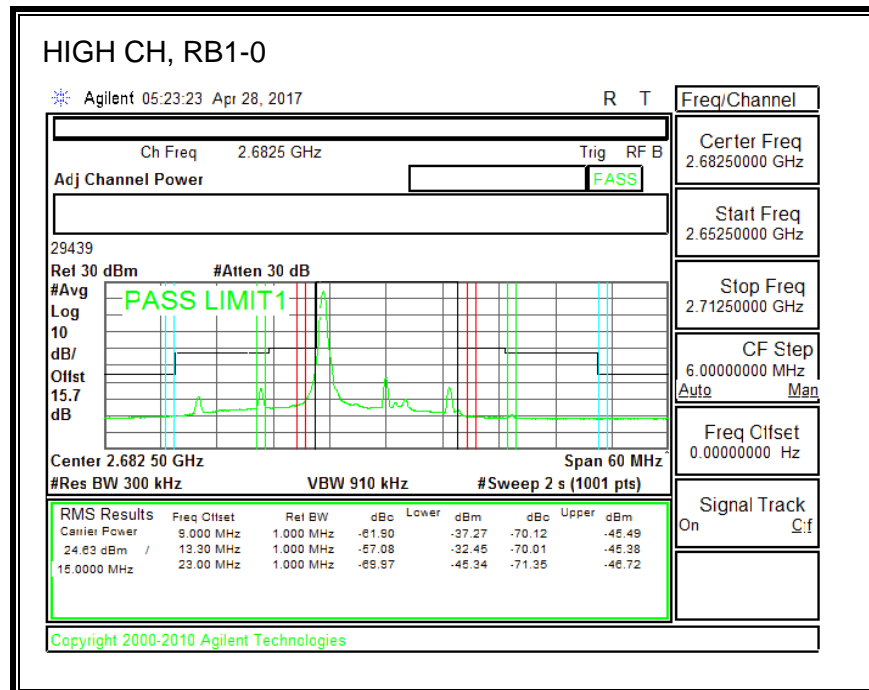
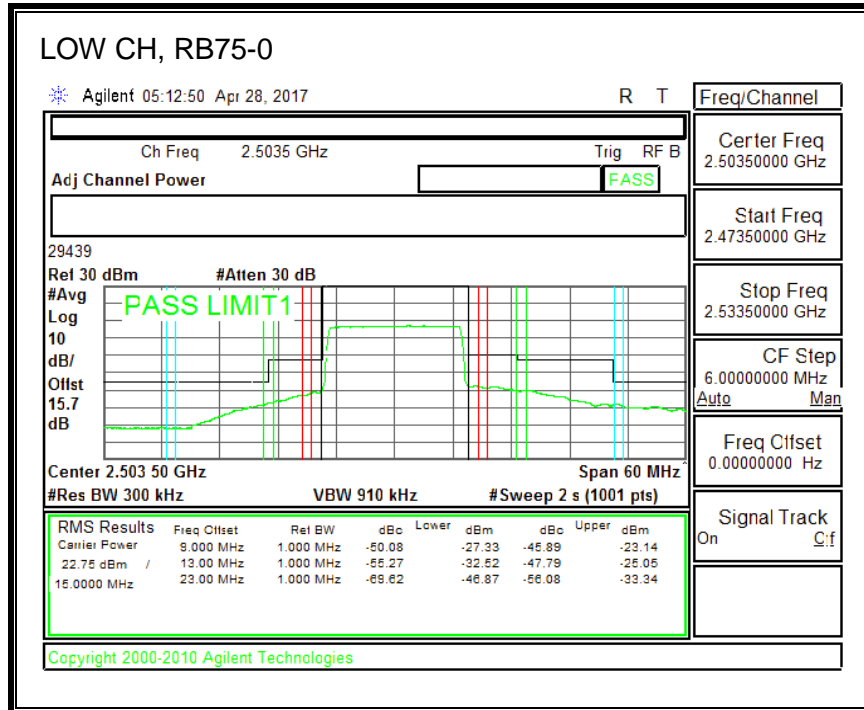


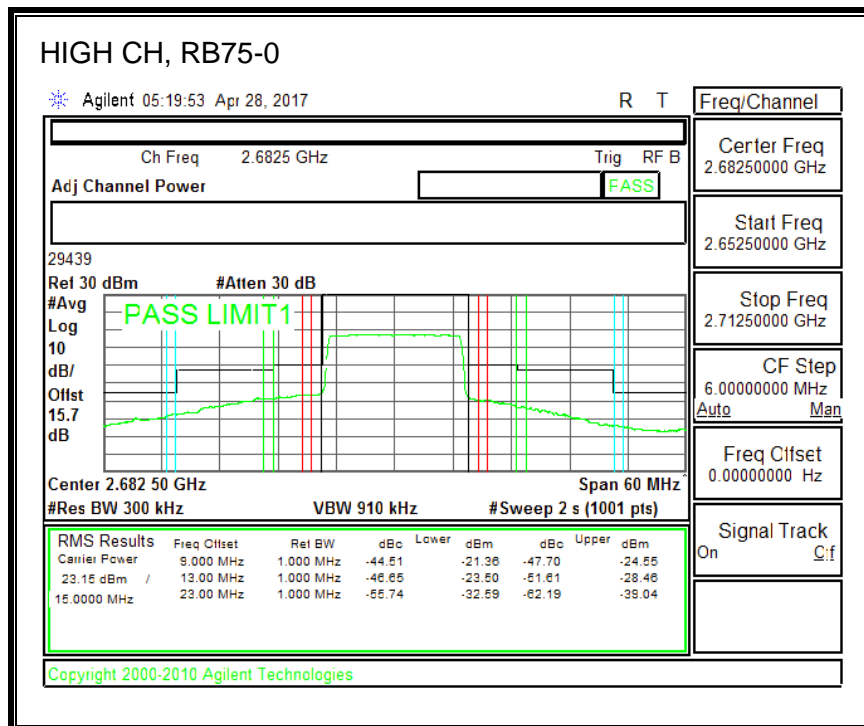
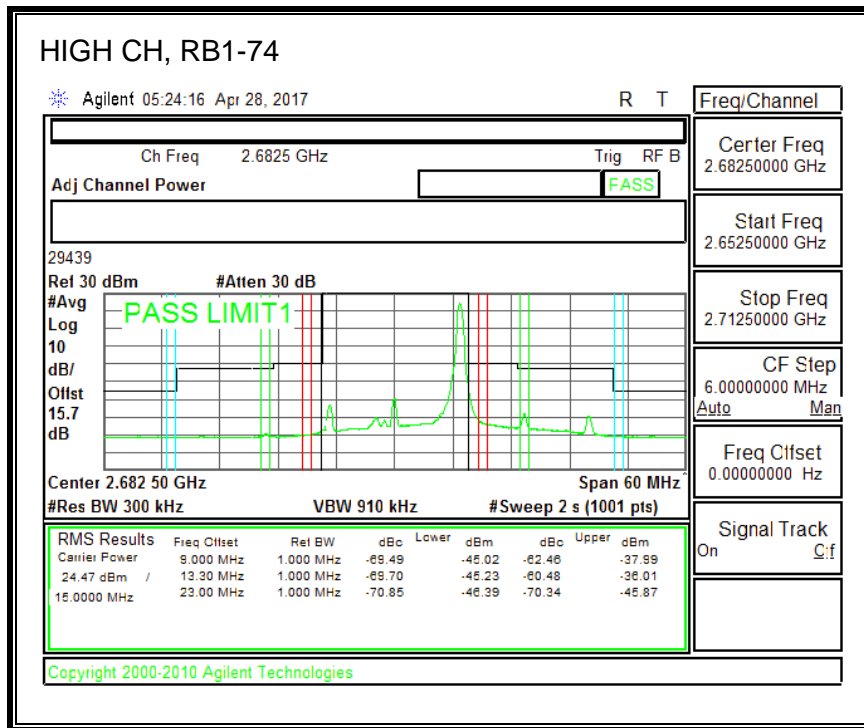




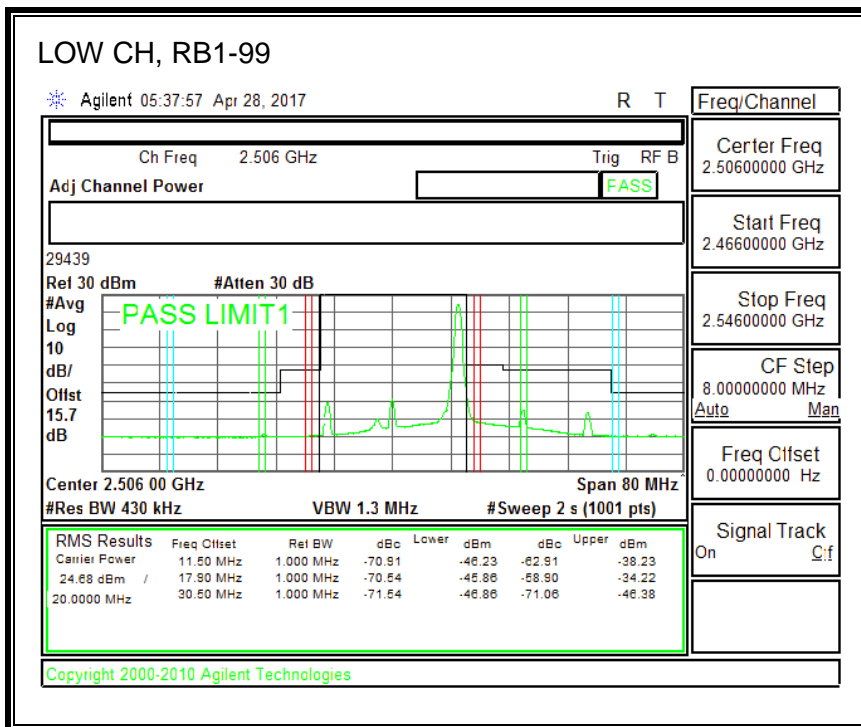
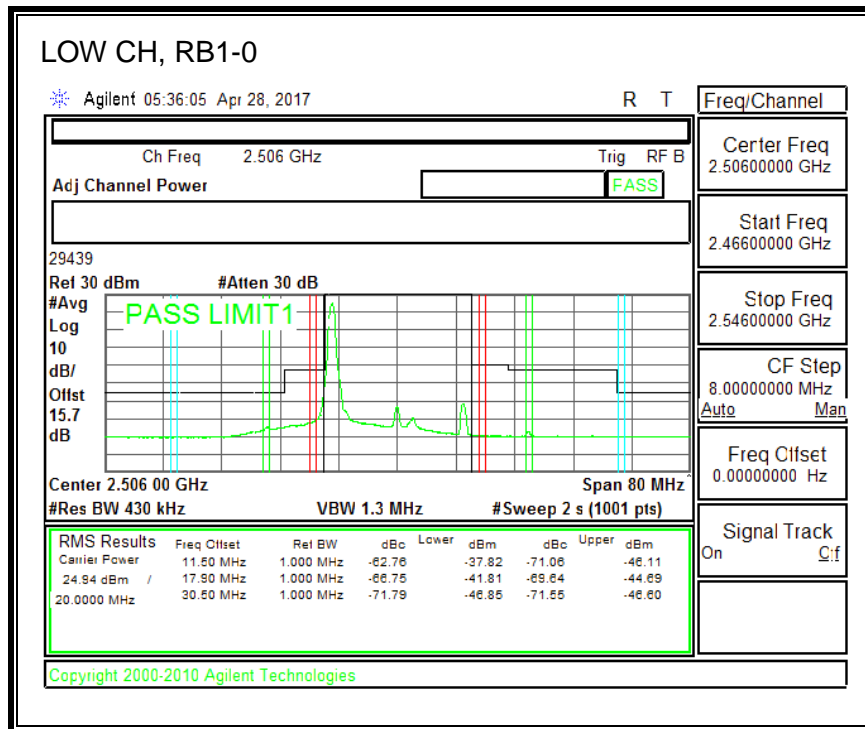
16QAM, (15.0 MHz BAND WIDTH)

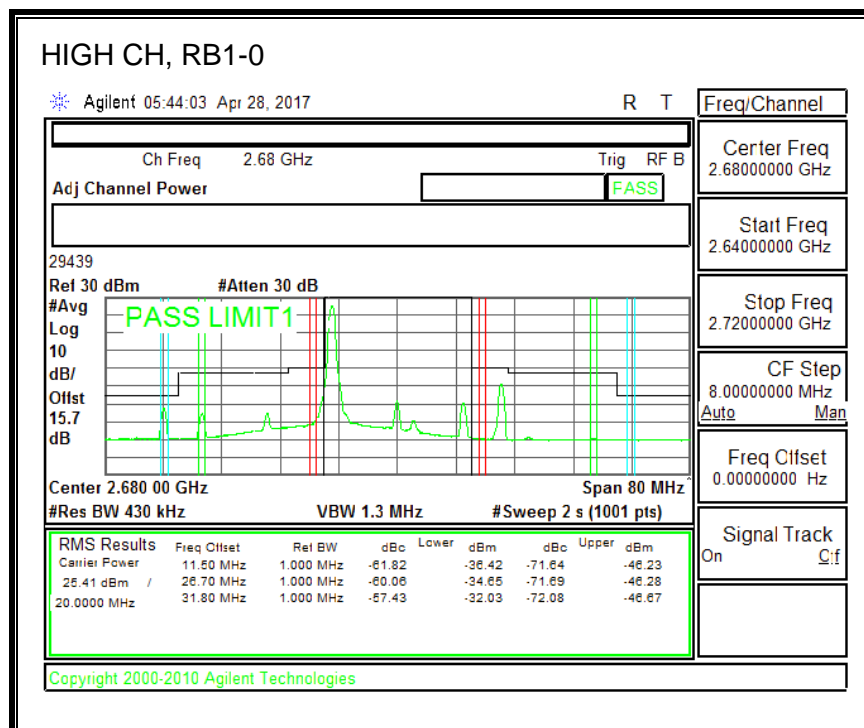
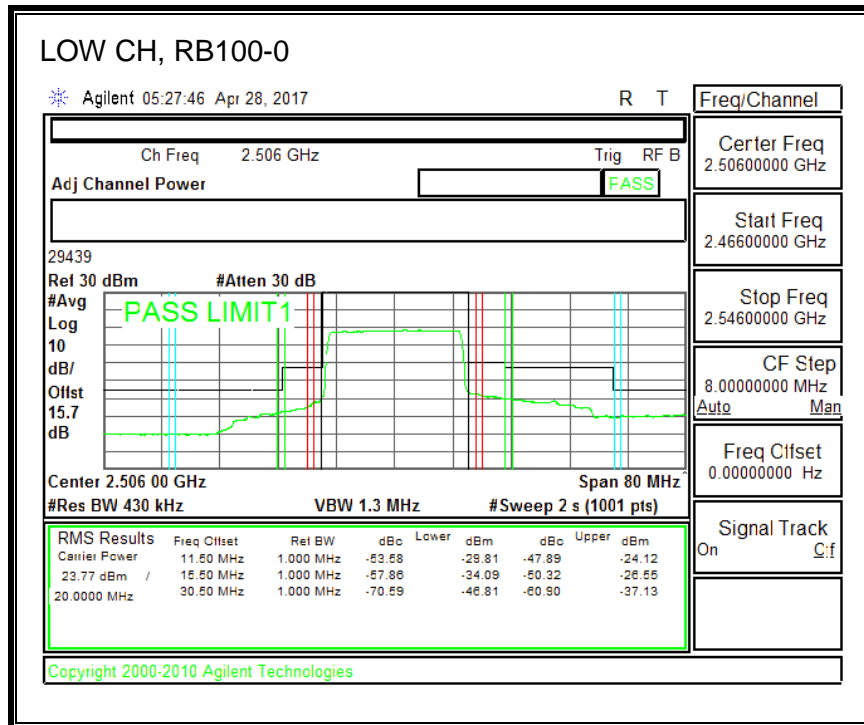


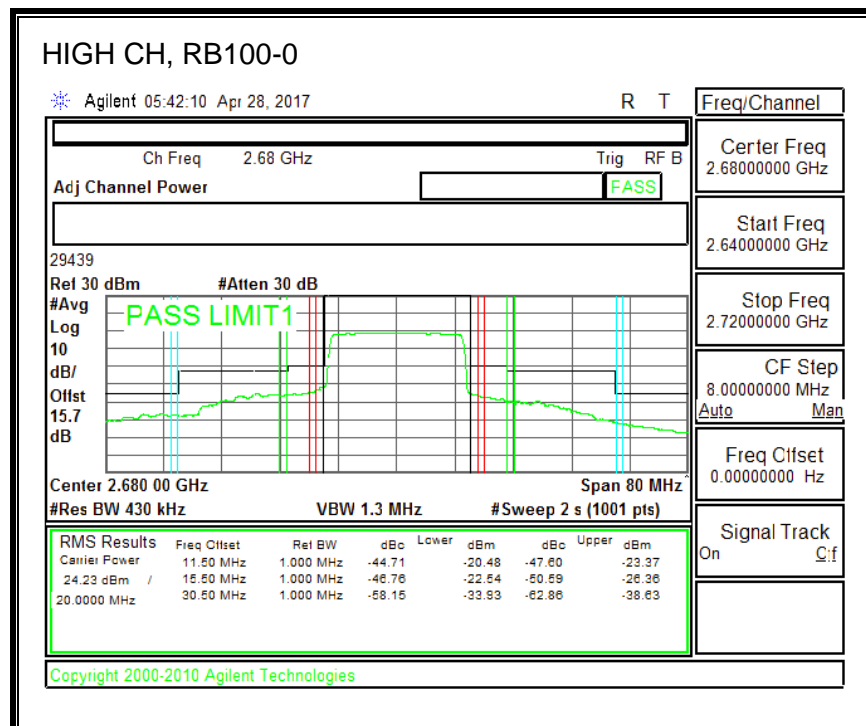
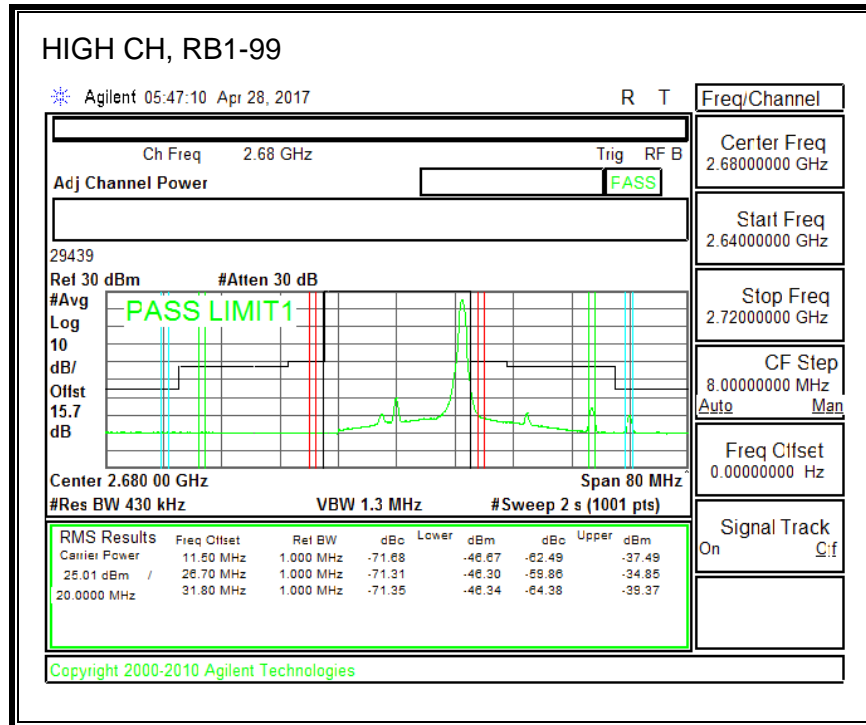




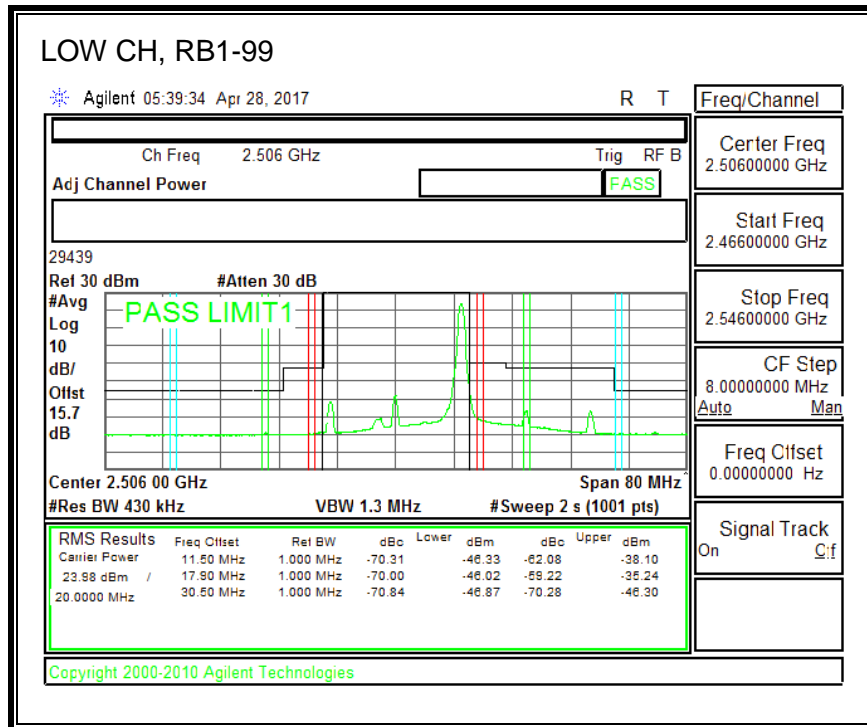
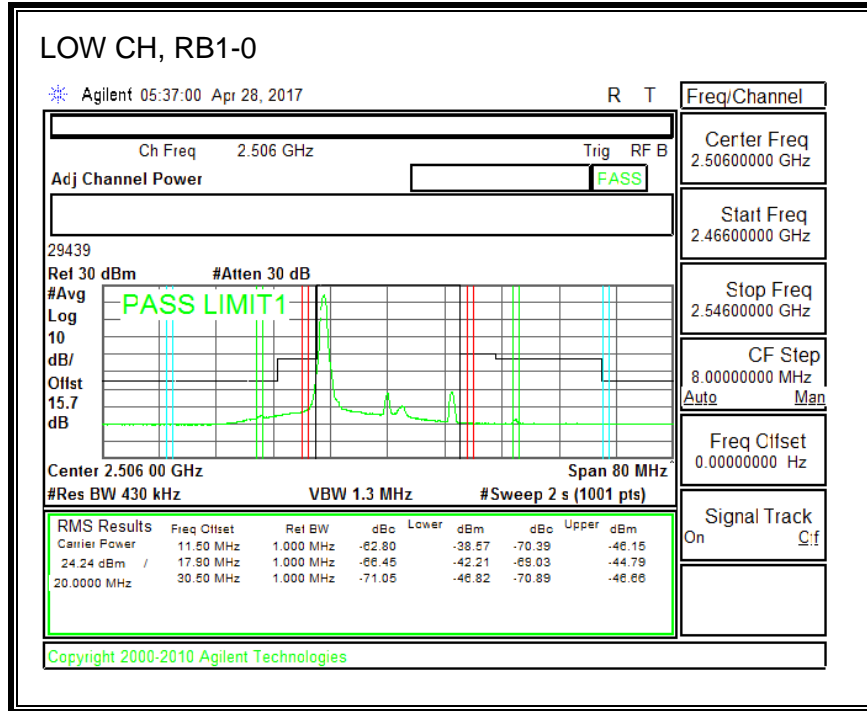
QPSK, (20.0 MHz BAND WIDTH)

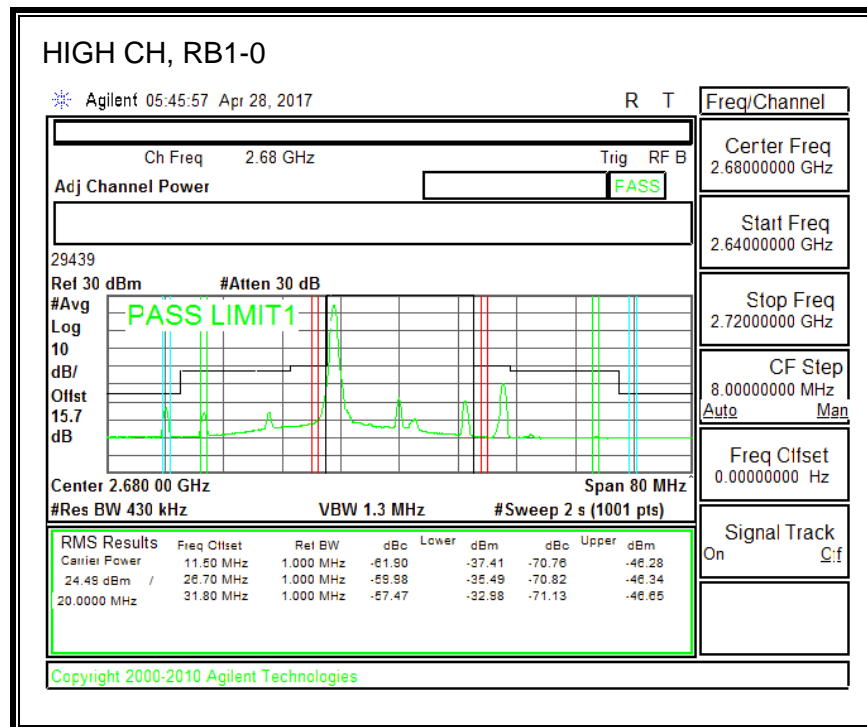
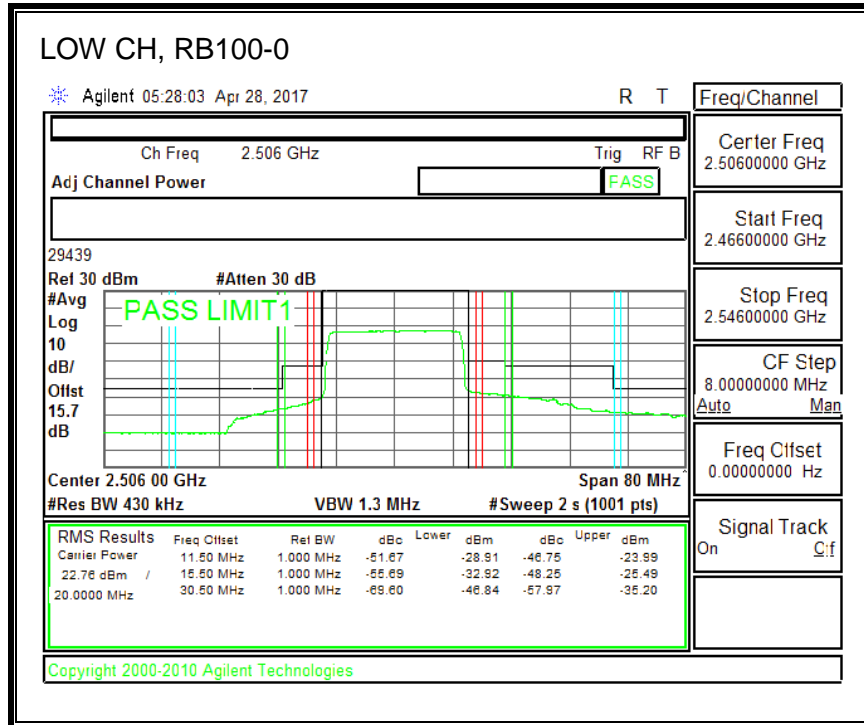


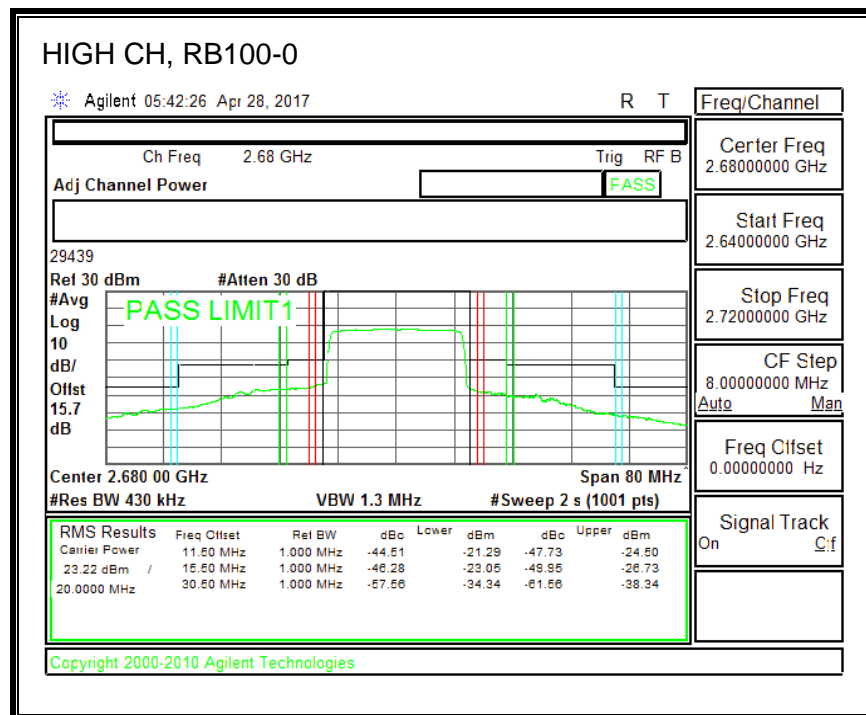
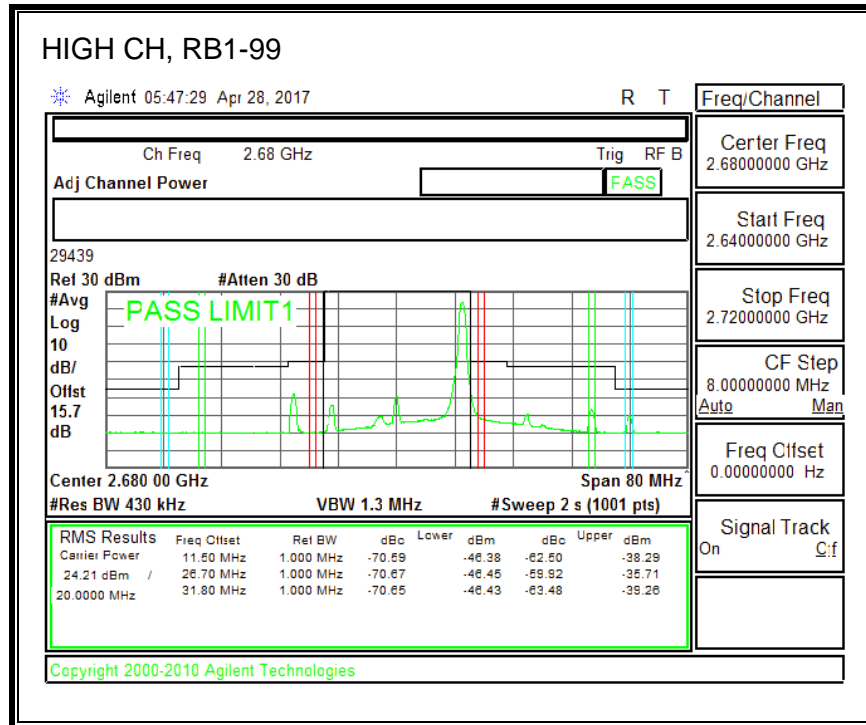




16QAM, (20.0 MHz BAND WIDTH)

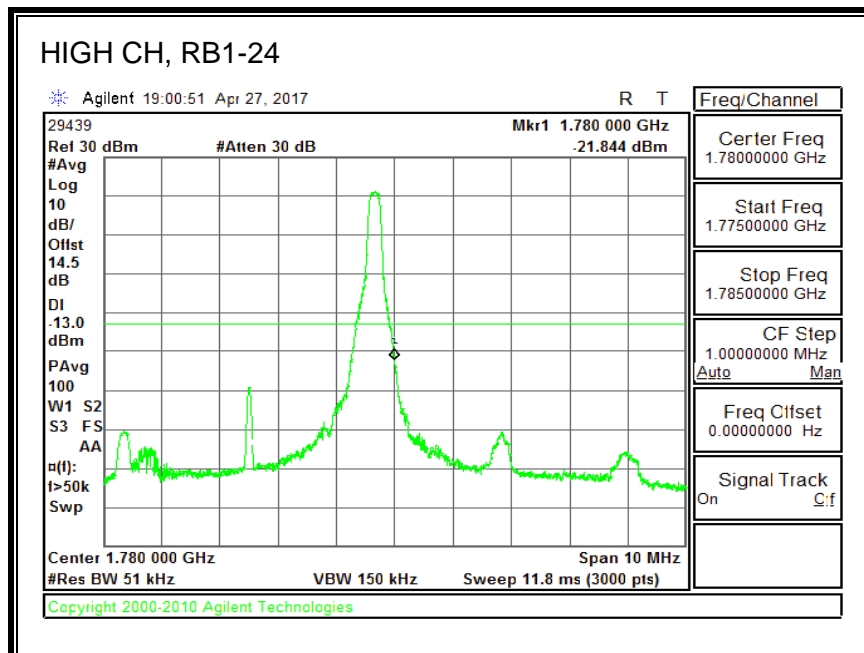
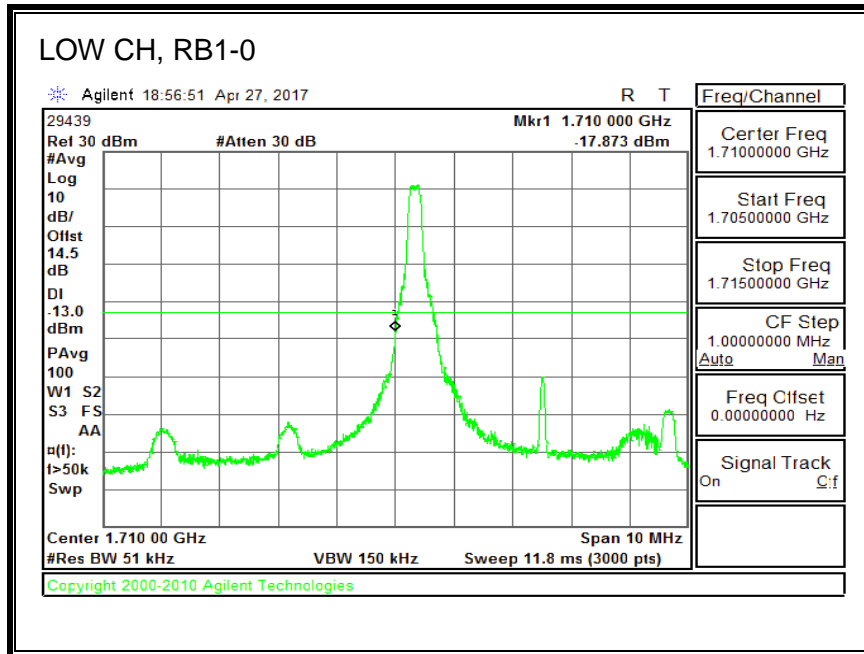


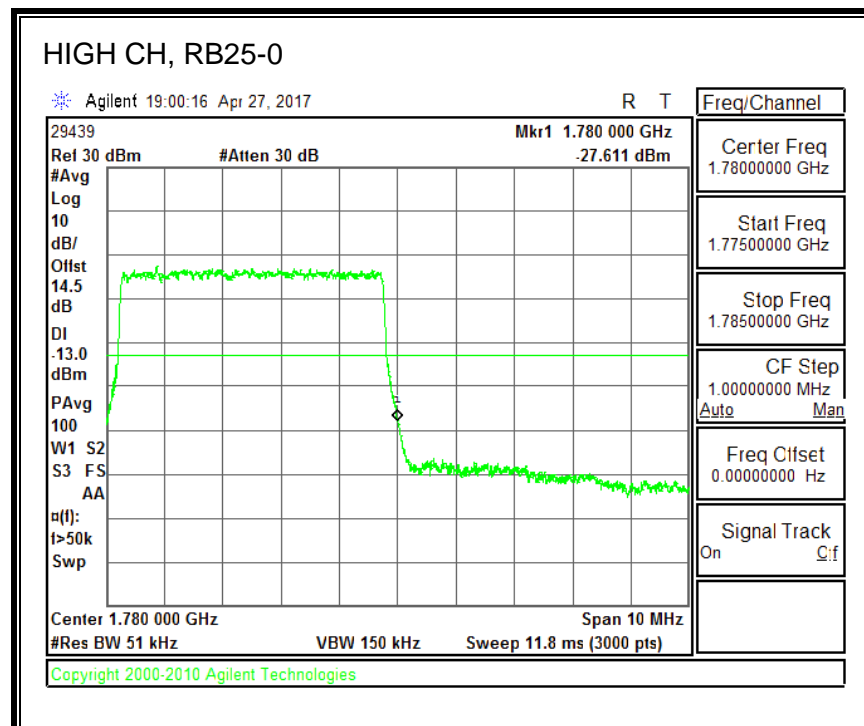
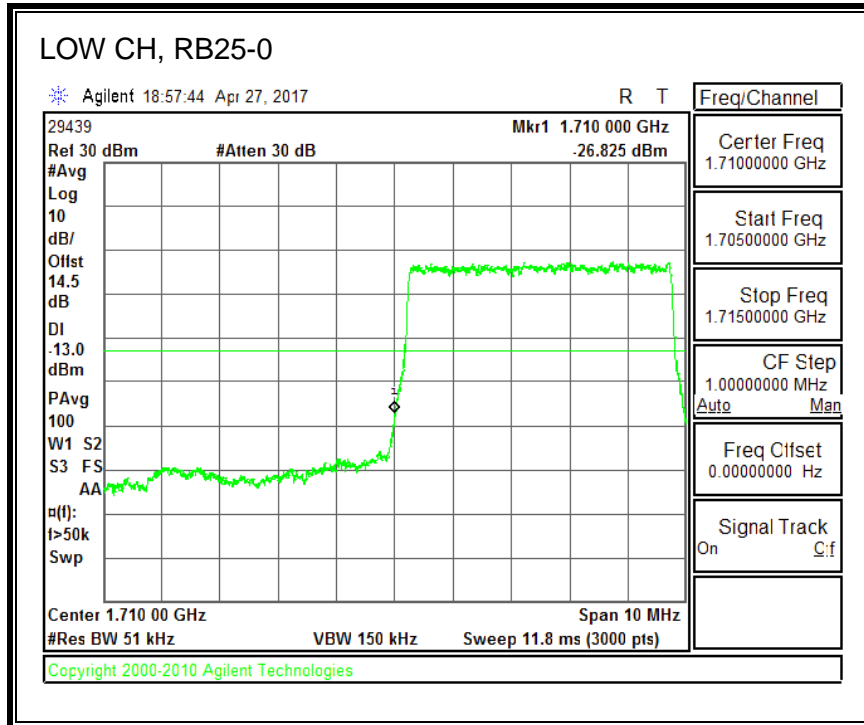




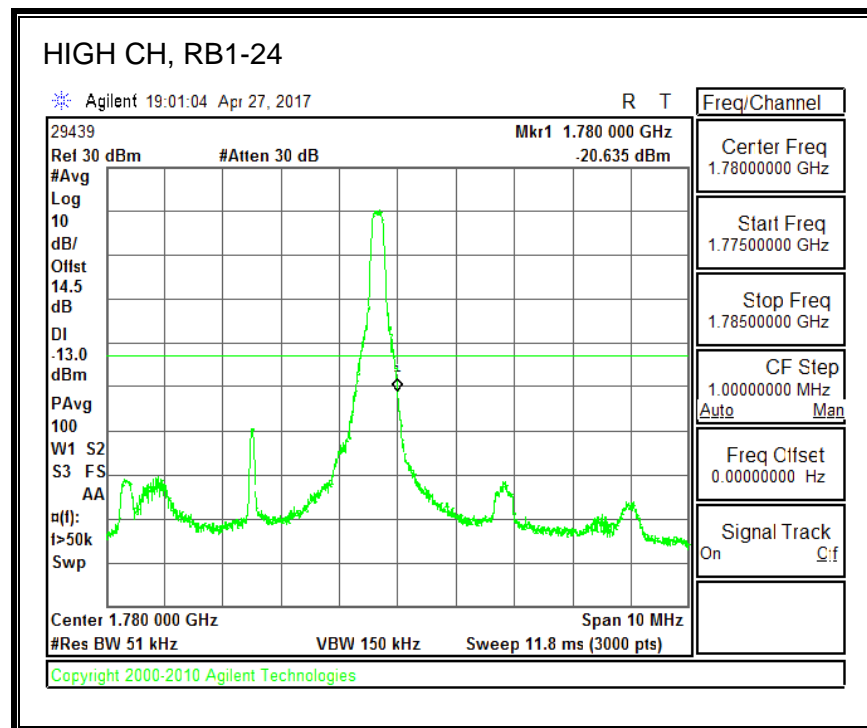
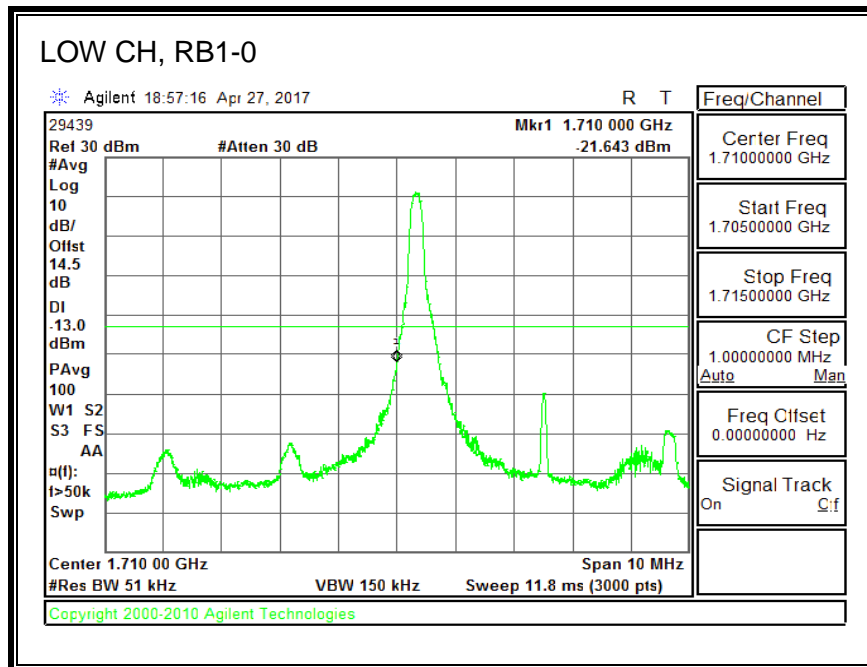
8.2.12. LTE BAND 66 BANDEDGE

QPSK, (5.0 MHz BAND WIDTH)





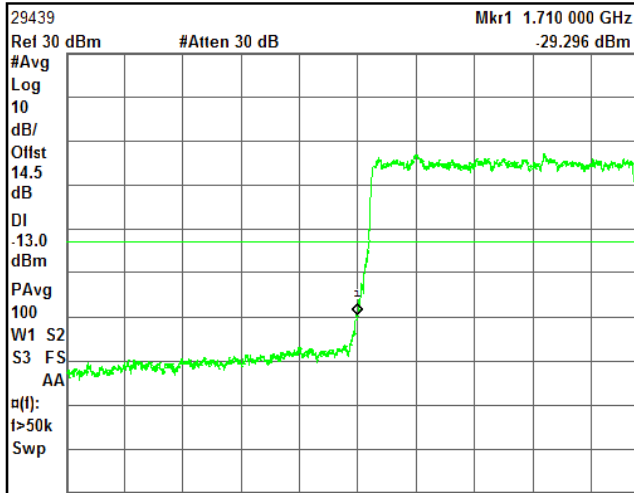
16QAM, (5.0 MHz BAND WIDTH)



LOW CH, RB25-0

Agilent 18:58:00 Apr 27, 2017

R T



Freq/Channel
Center Freq 1.71000000 GHz
Start Freq 1.70500000 GHz
Stop Freq 1.71500000 GHz
CF Step 1.00000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

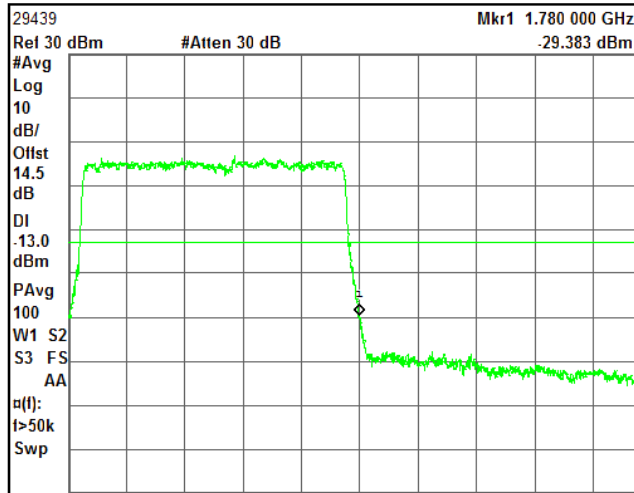
Center 1.710 00 GHz Span 10 MHz
#Res BW 51 kHz VBW 150 kHz Sweep 11.8 ms (3000 pts)

Copyright 2000-2010 Agilent Technologies

HIGH CH, RB25-0

Agilent 19:00:35 Apr 27, 2017

R T

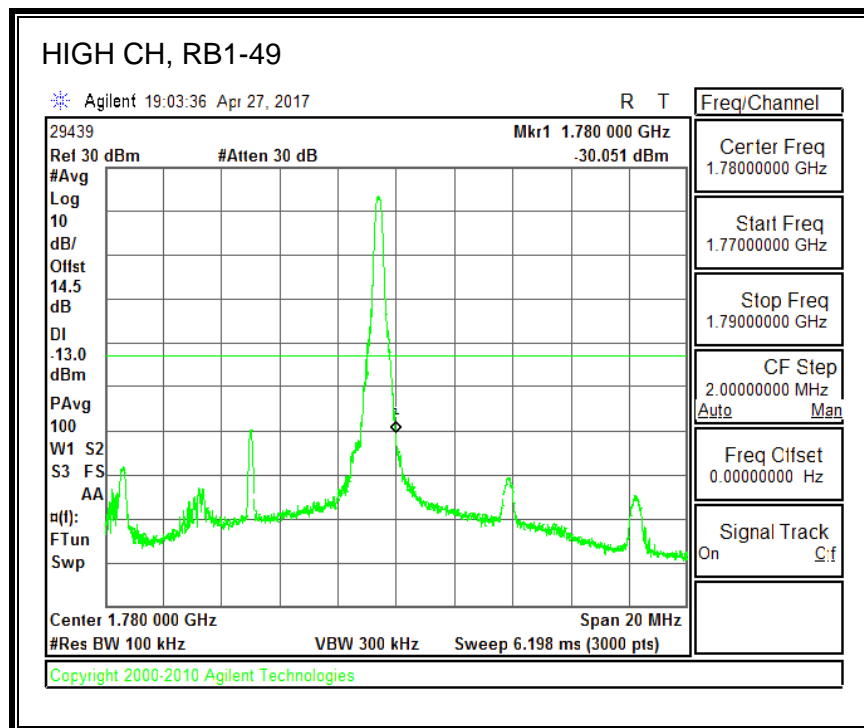
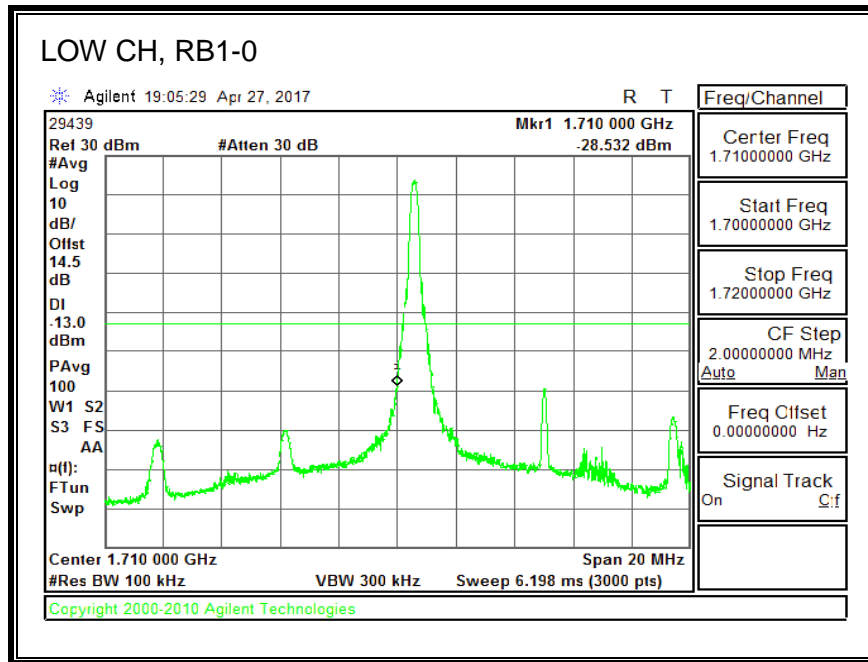


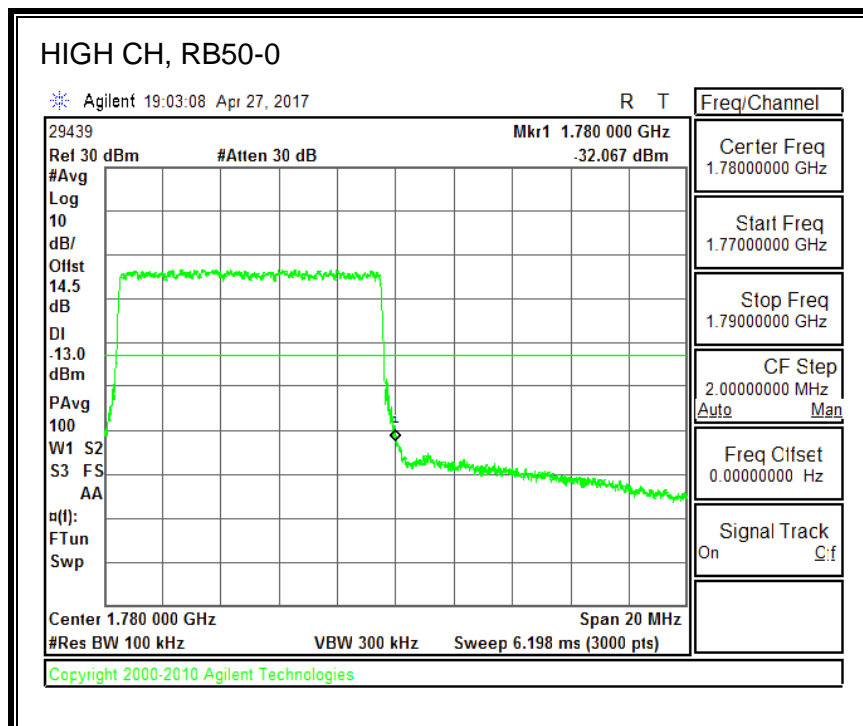
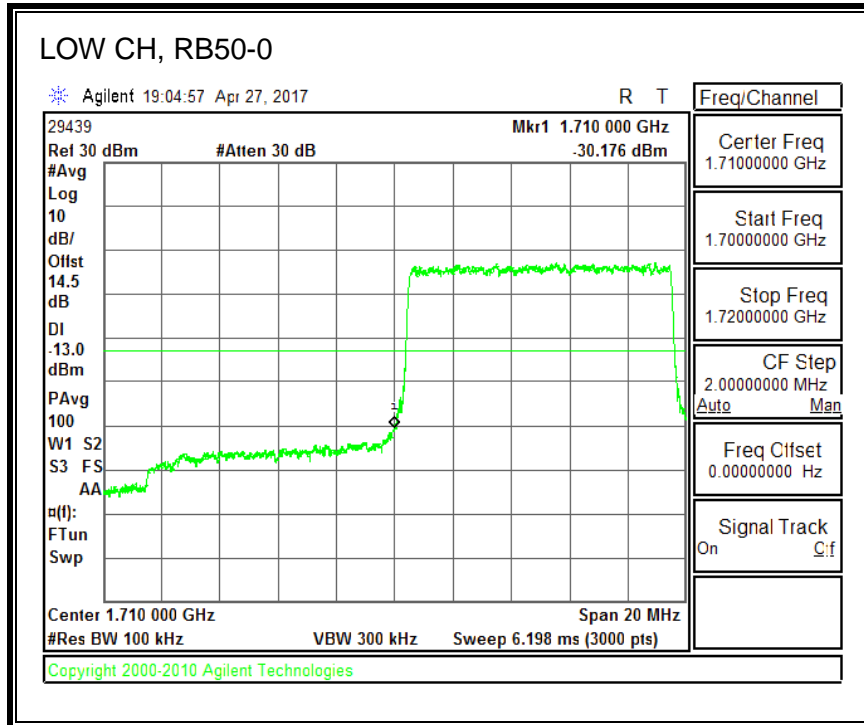
Freq/Channel
Center Freq 1.78000000 GHz
Start Freq 1.77500000 GHz
Stop Freq 1.78500000 GHz
CF Step 1.00000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

Center 1.780 000 GHz Span 10 MHz
#Res BW 51 kHz VBW 150 kHz Sweep 11.8 ms (3000 pts)

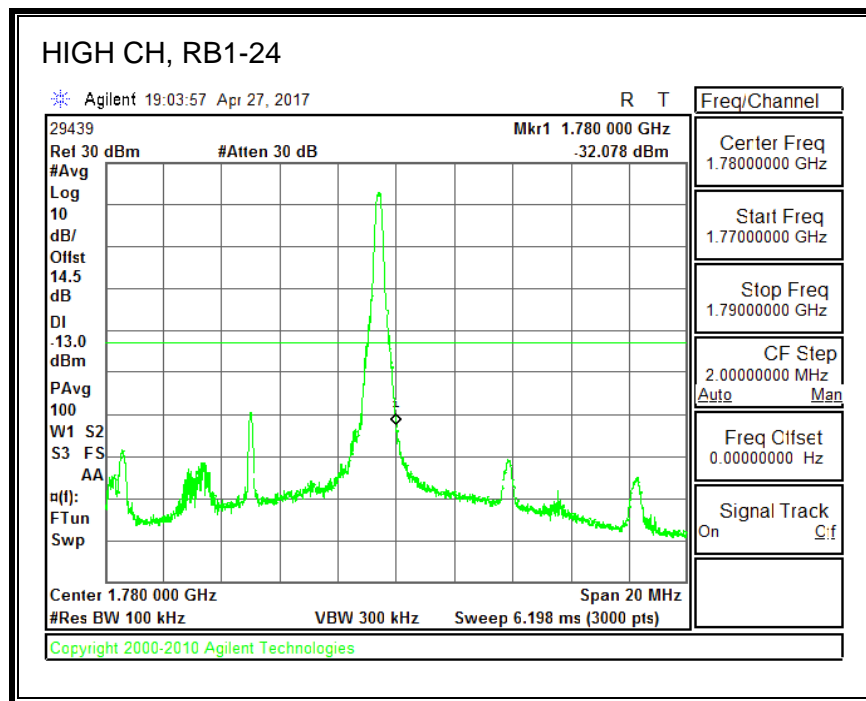
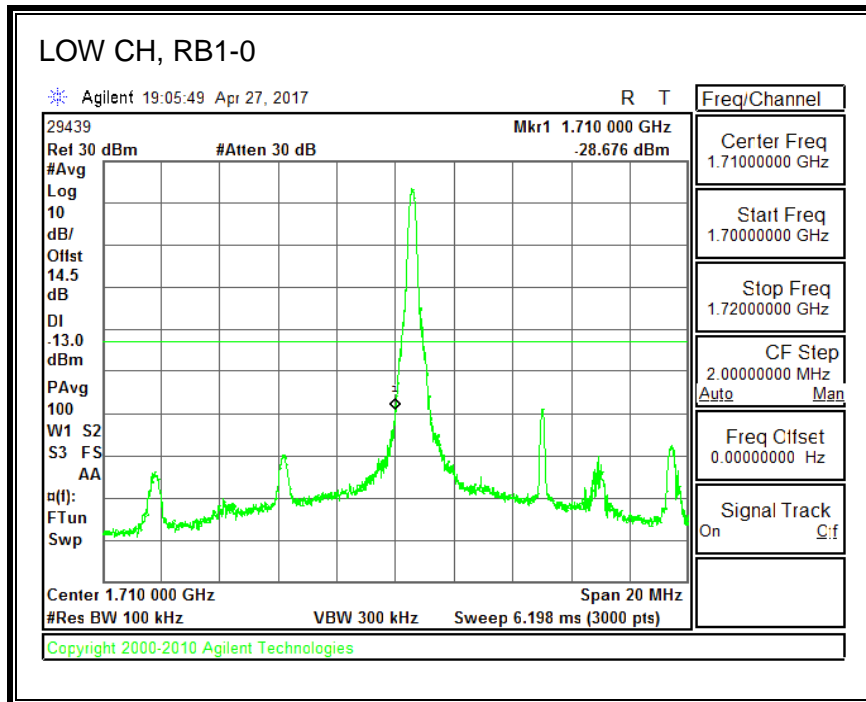
Copyright 2000-2010 Agilent Technologies

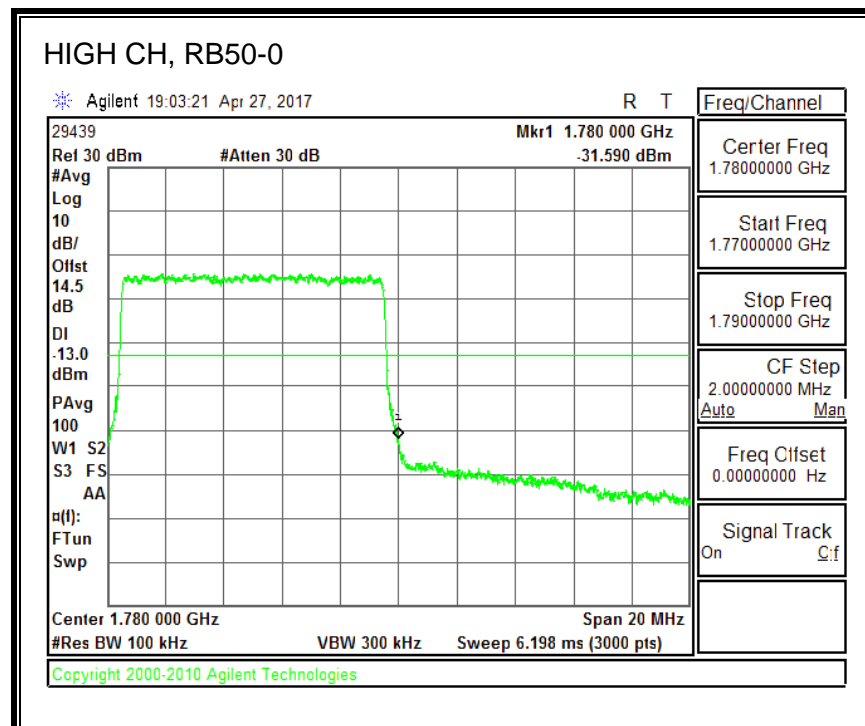
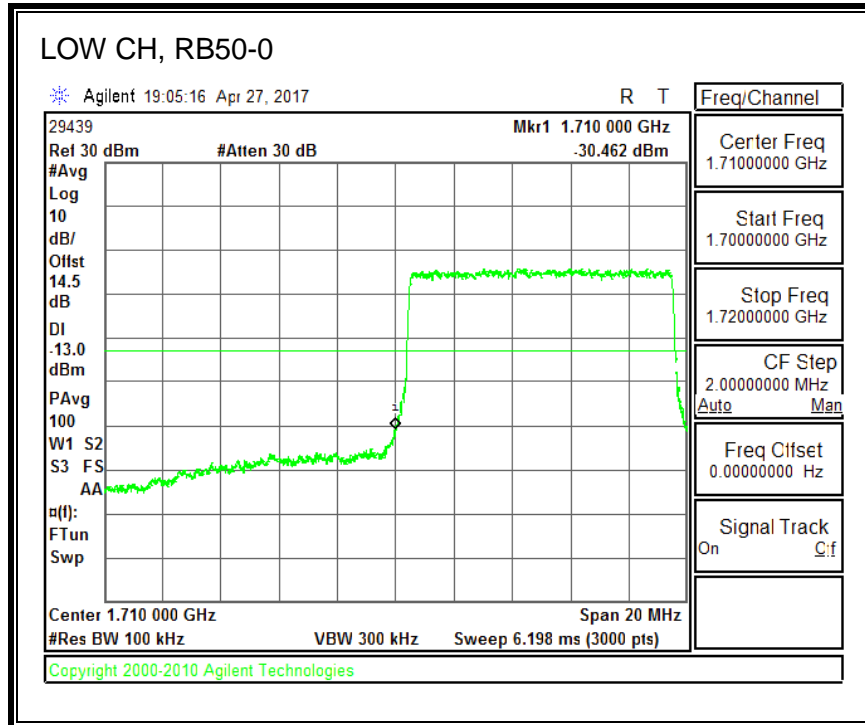
QPSK, (10.0 MHz BAND WIDTH)



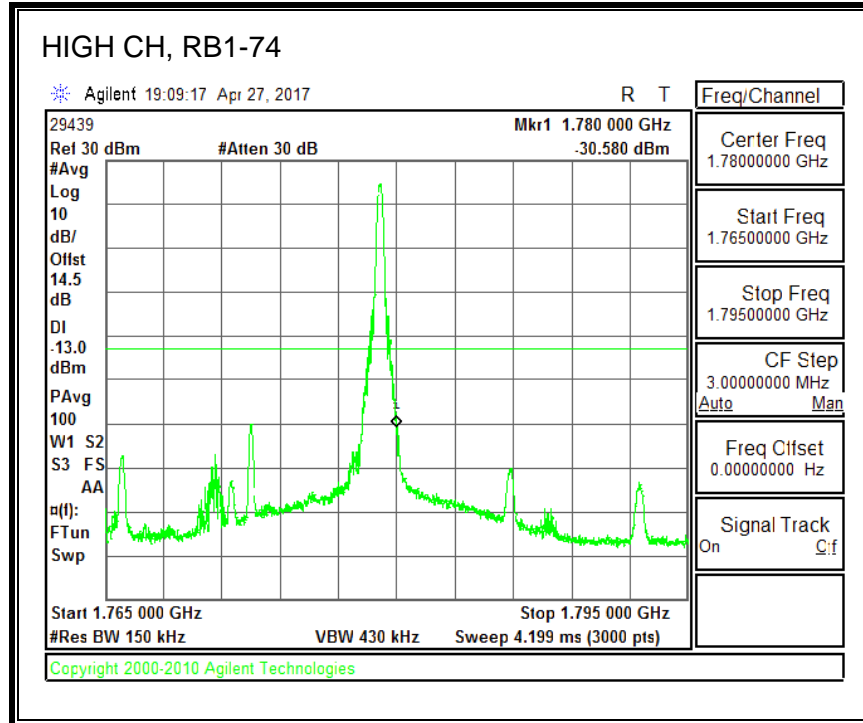
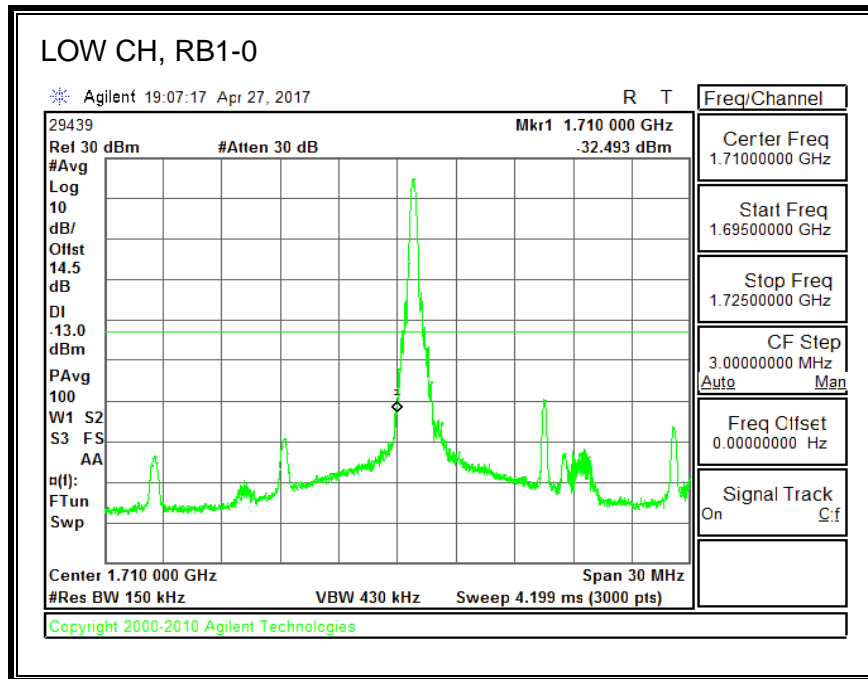


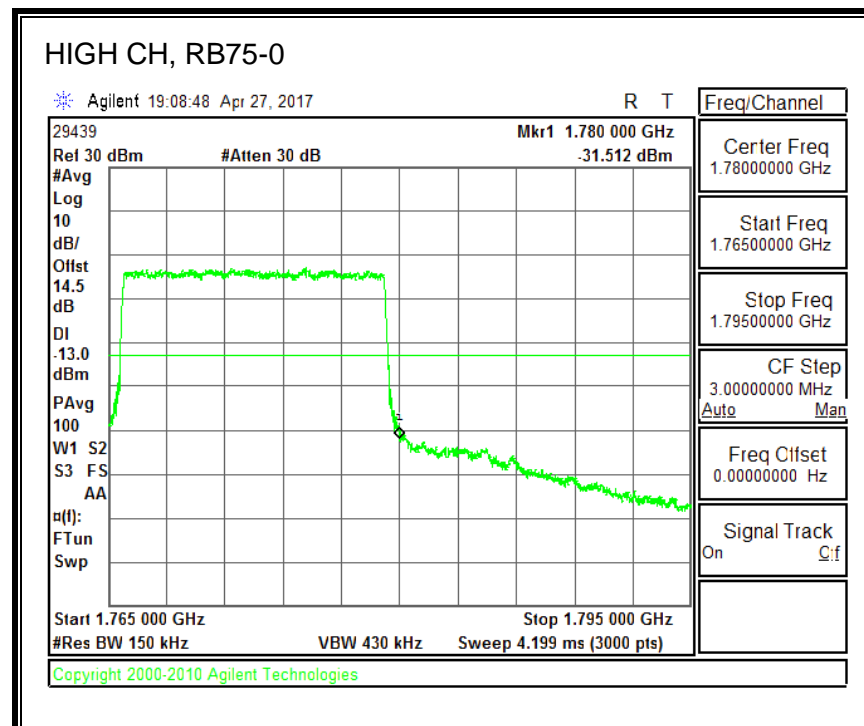
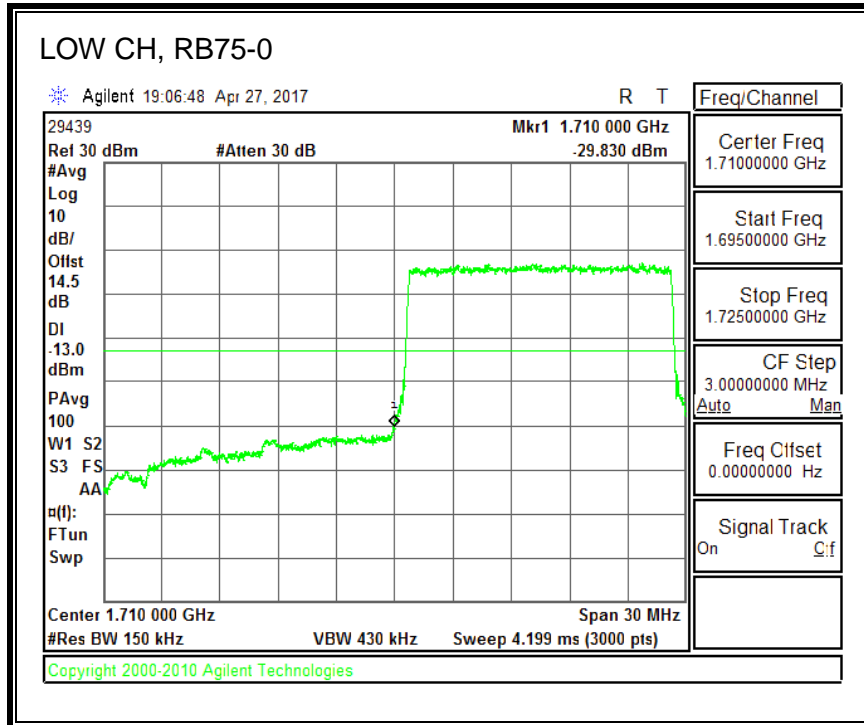
16QAM, (10.0 MHz BAND WIDTH)



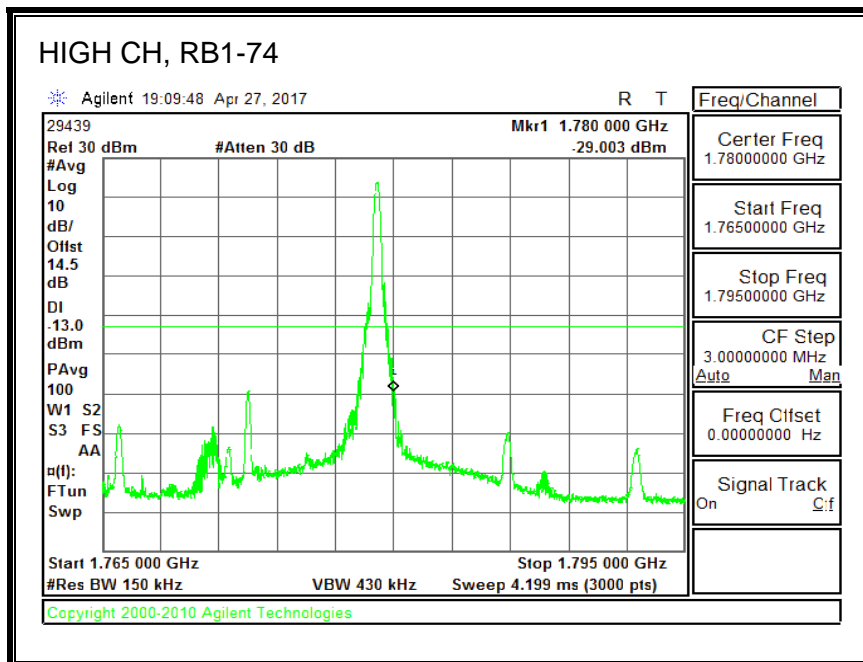
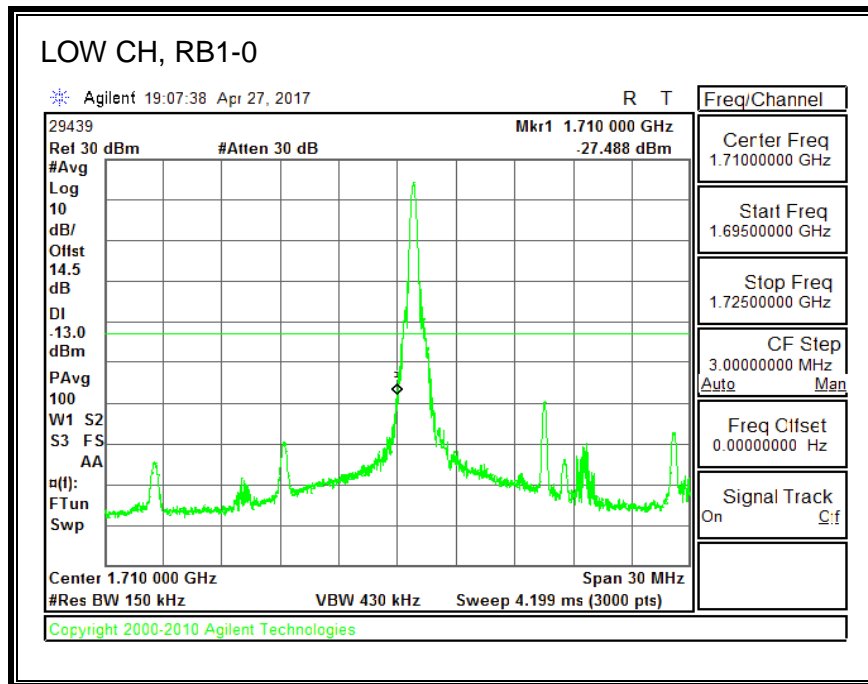


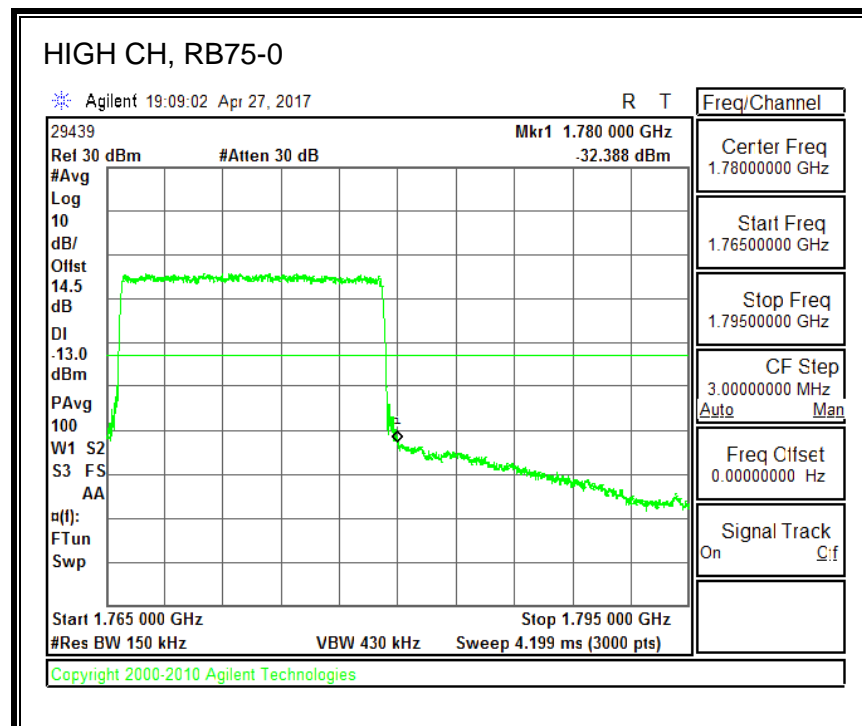
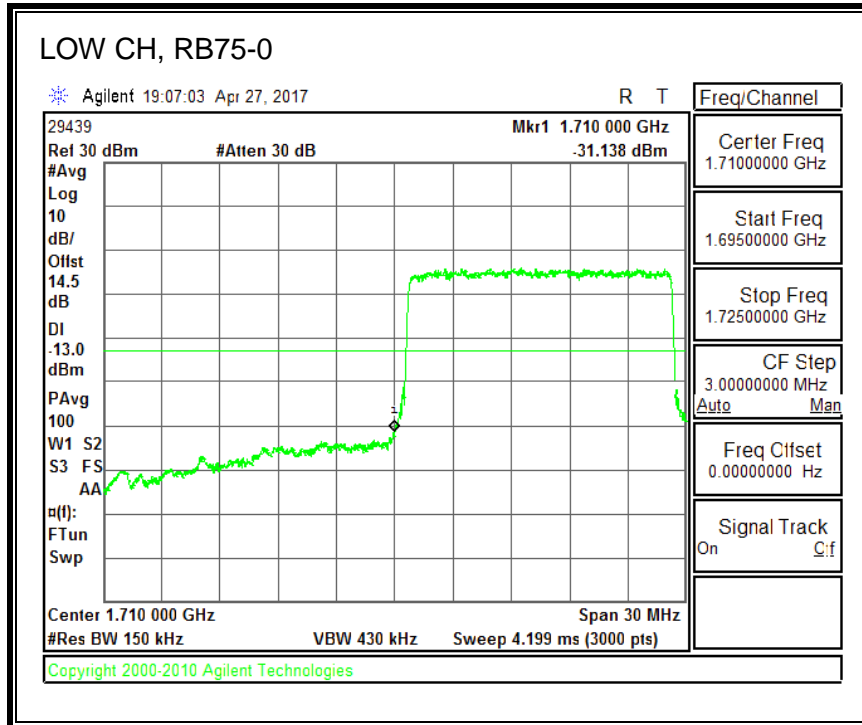
QPSK, (15.0 MHz BAND WIDTH)



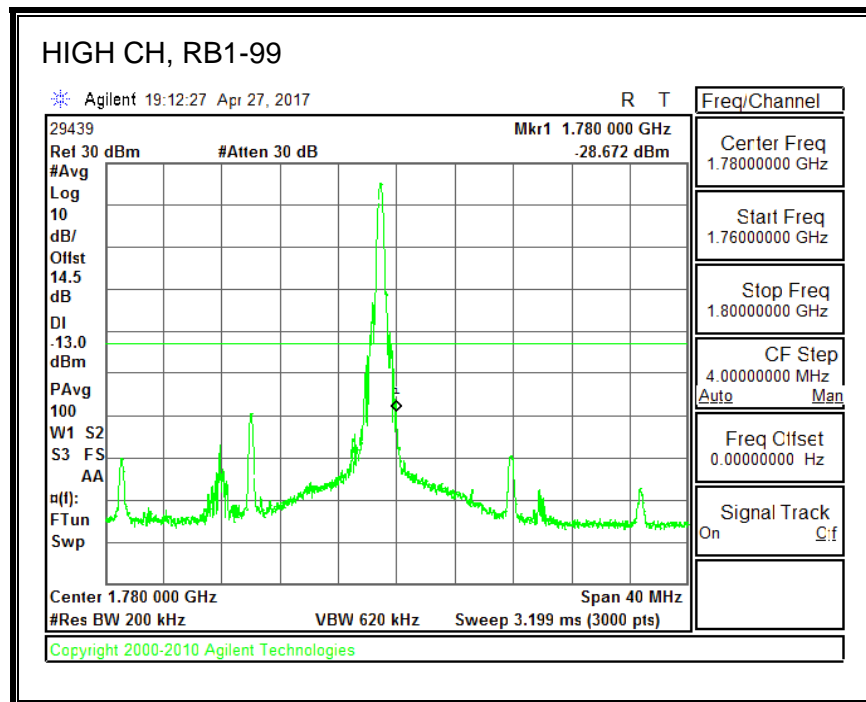
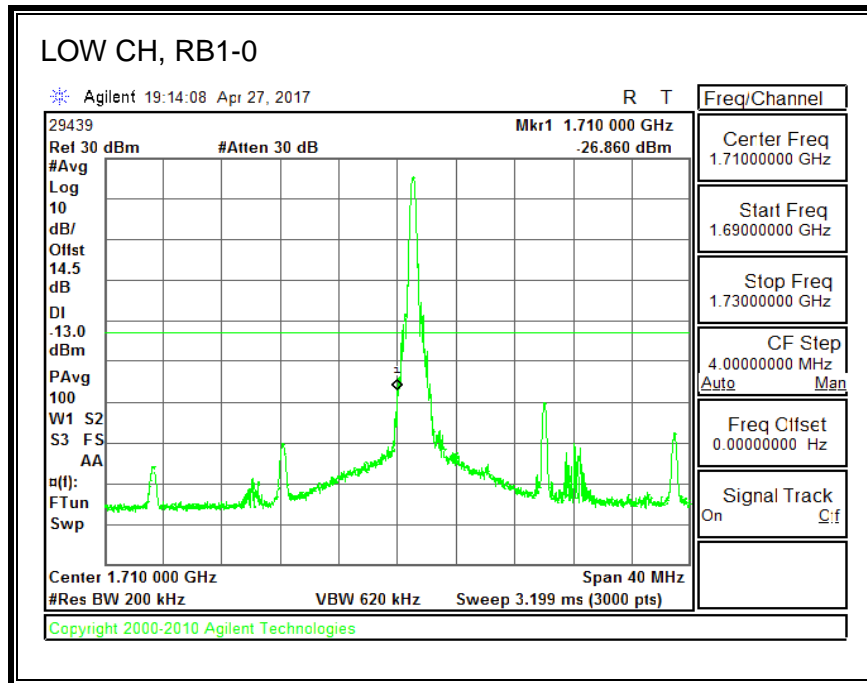


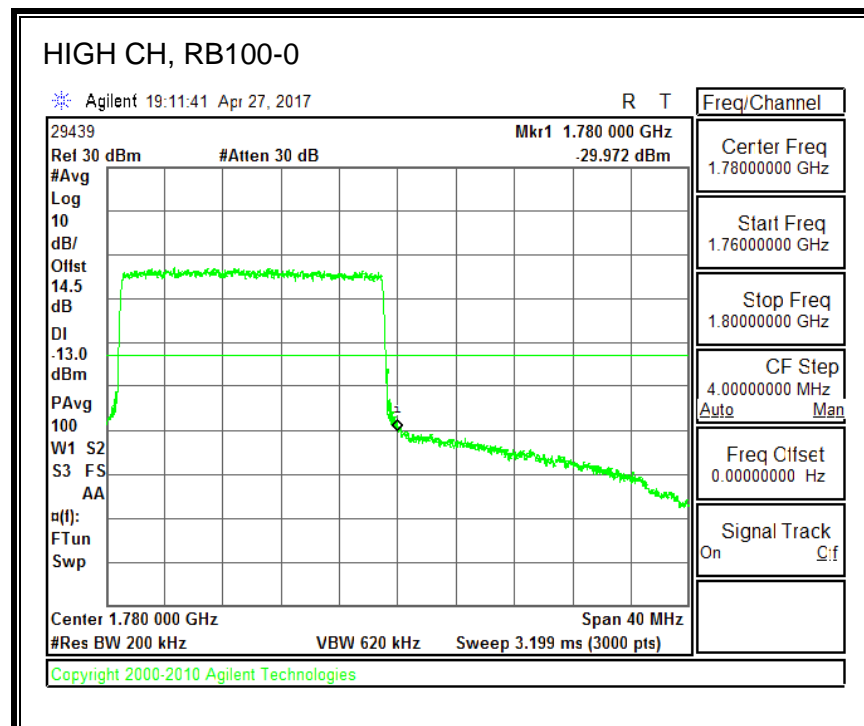
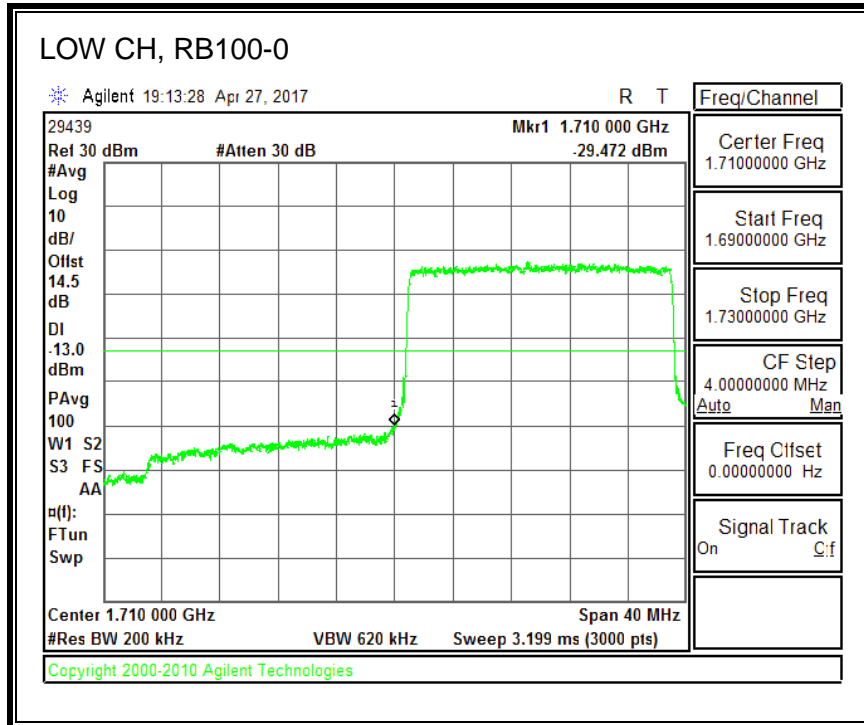
16QAM, (15.0 MHz BAND WIDTH)



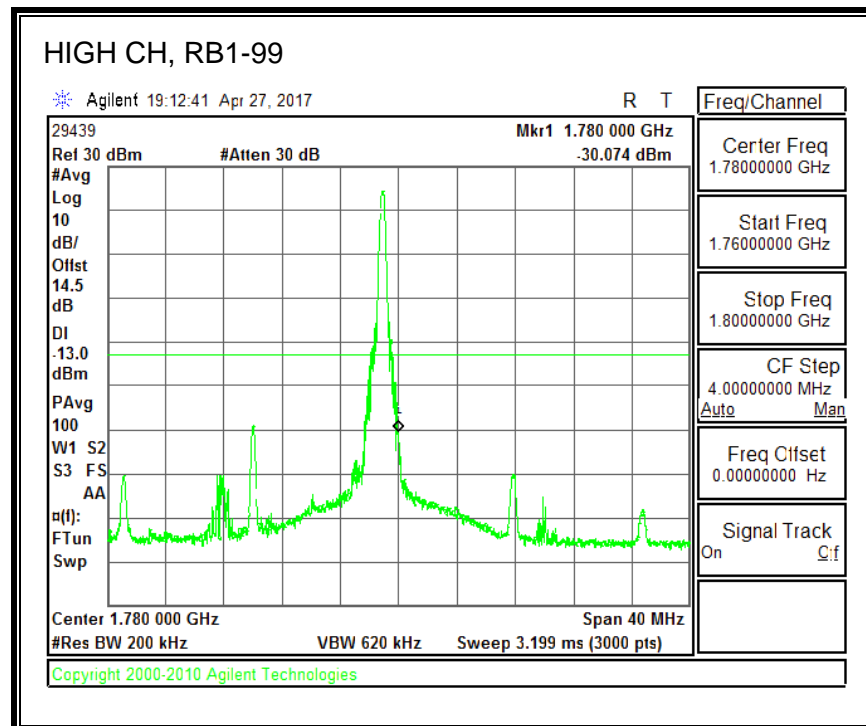
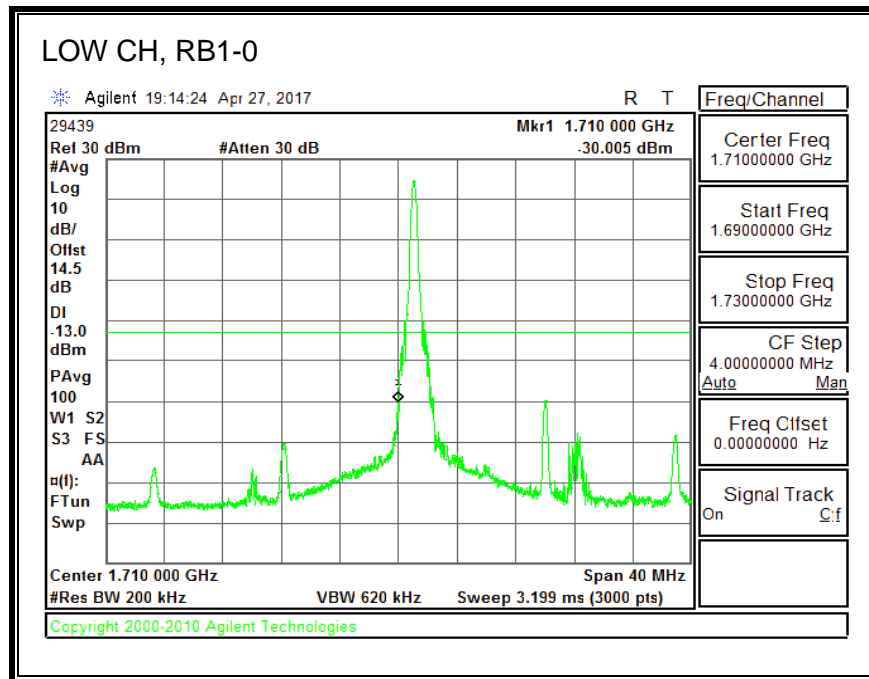


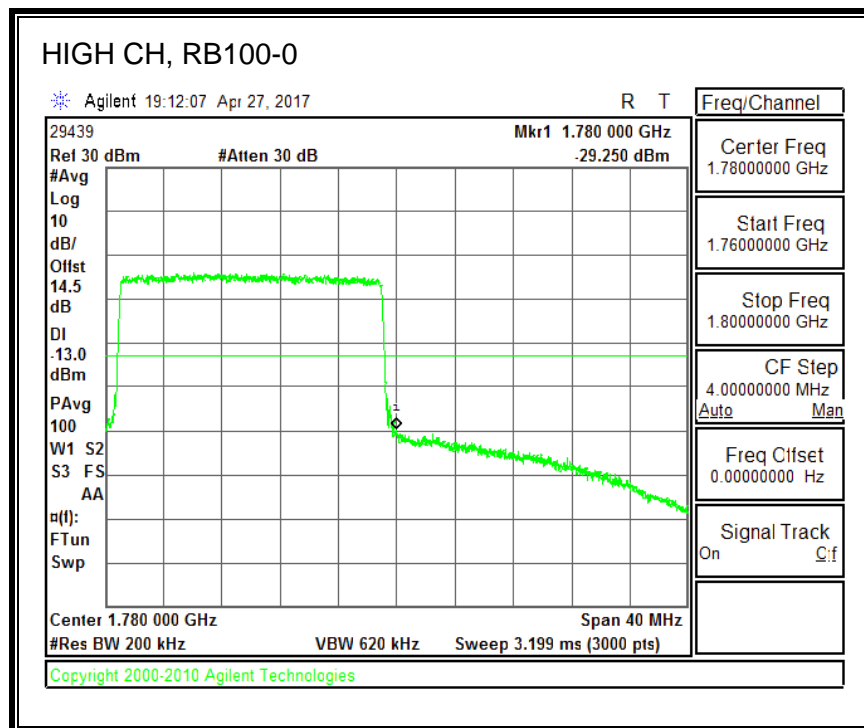
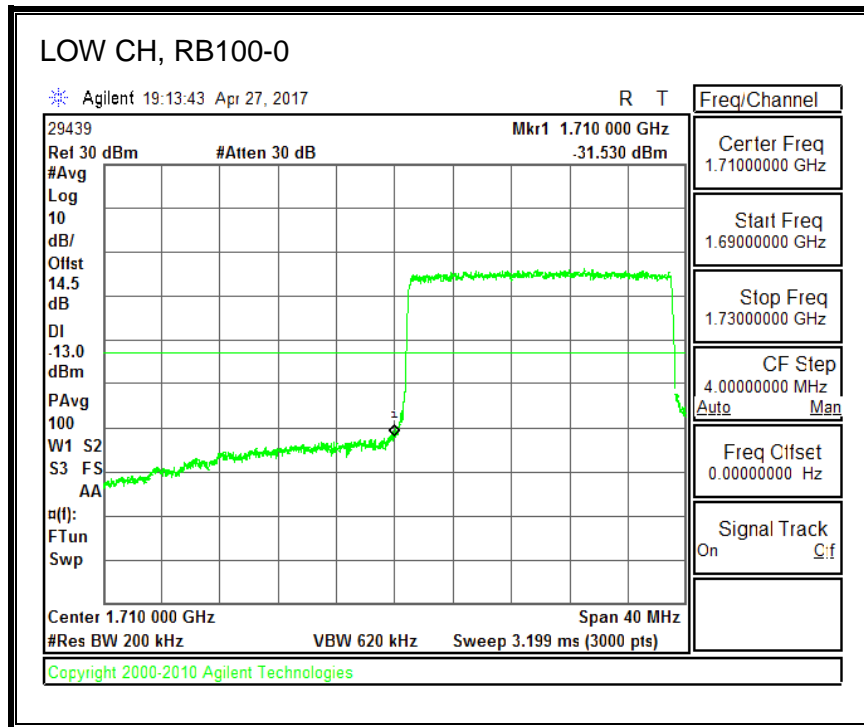
QPSK, (20.0 MHz BAND WIDTH)





16QAM, (20.0 MHz BAND WIDTH)





8.3. OUT OF BAND EMISSIONS

RULE PART(S)

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

LIMITS

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

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

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

TEST PROCEDURE

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

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

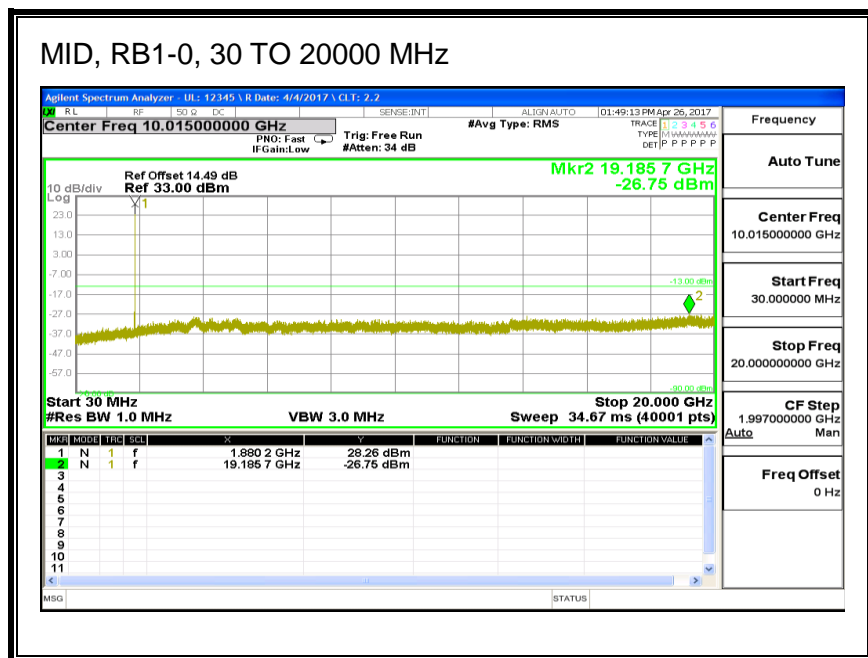
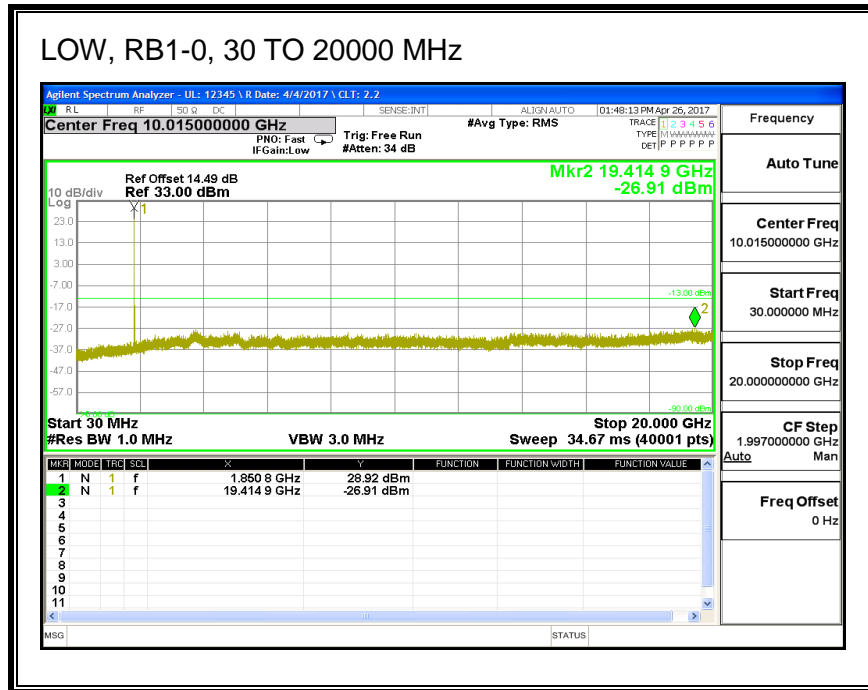
MODES TESTED

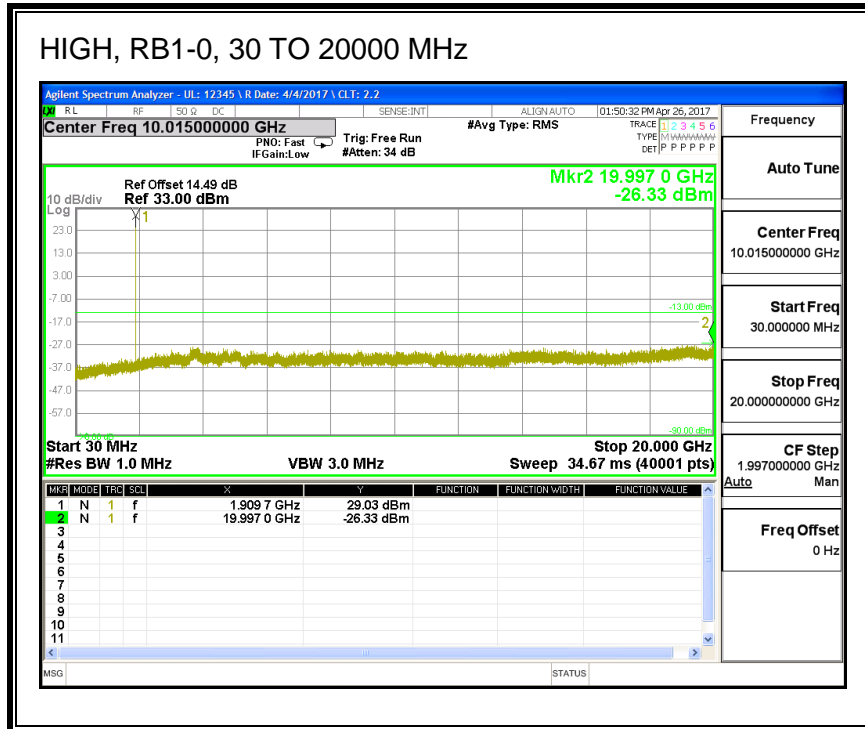
- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 30
- LTE Band 41
- LTE Band 66

8.3.1. LTE BAND 2

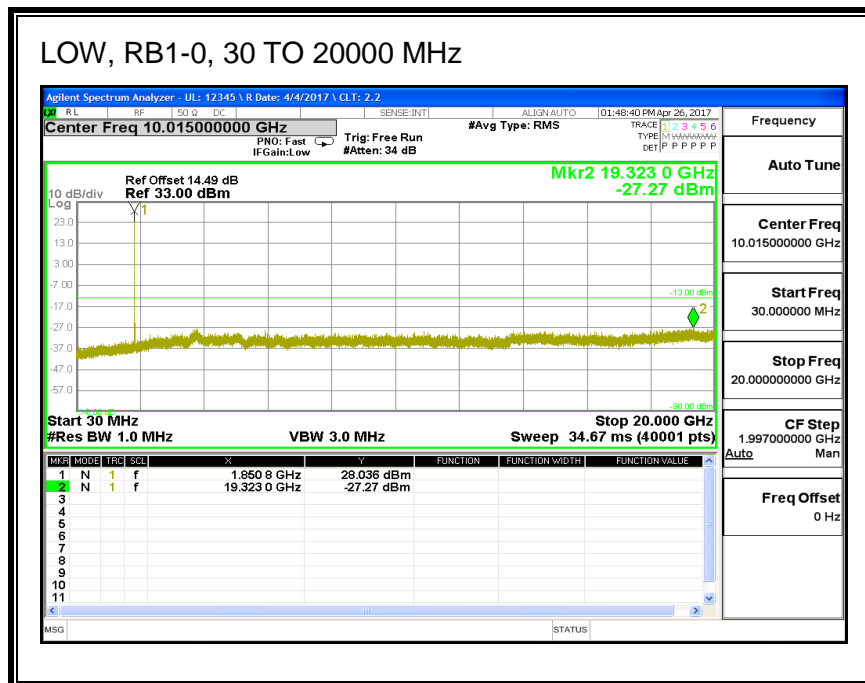
ID:	37290	Date:	4/26/17
-----	-------	-------	---------

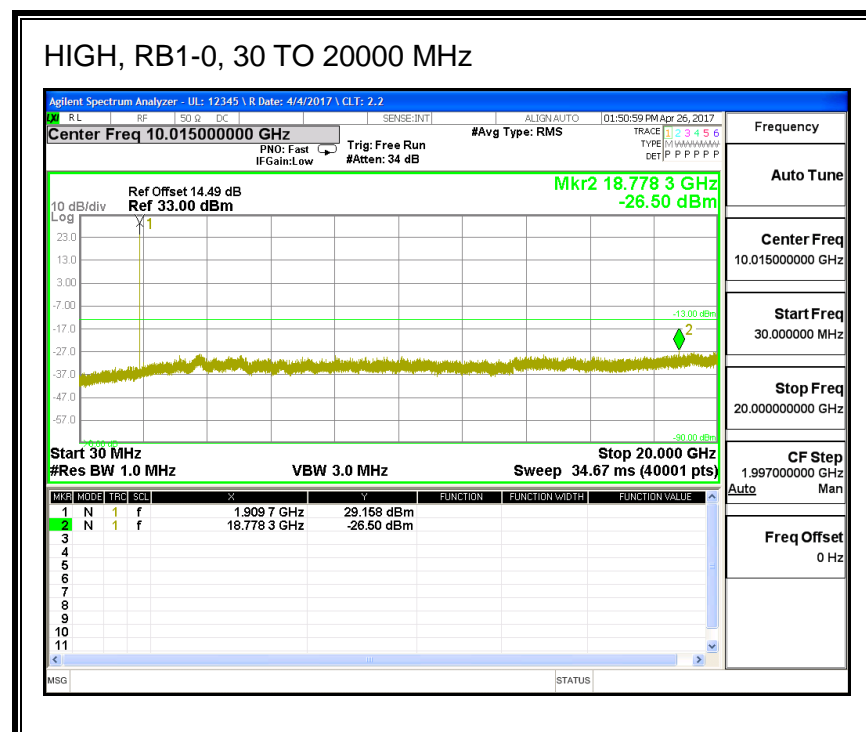
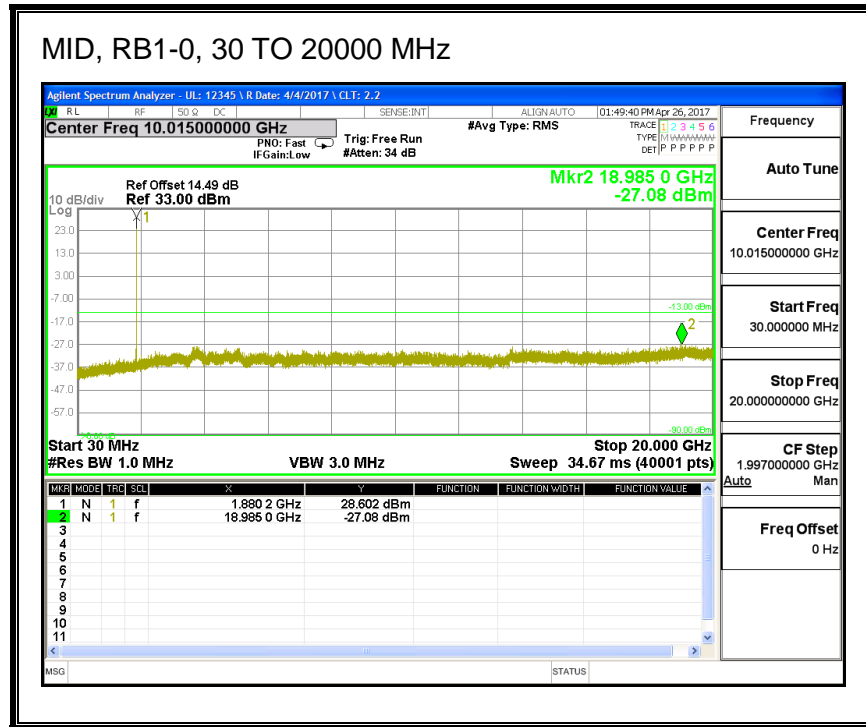
QPSK, (1.4 MHz BAND WIDTH)



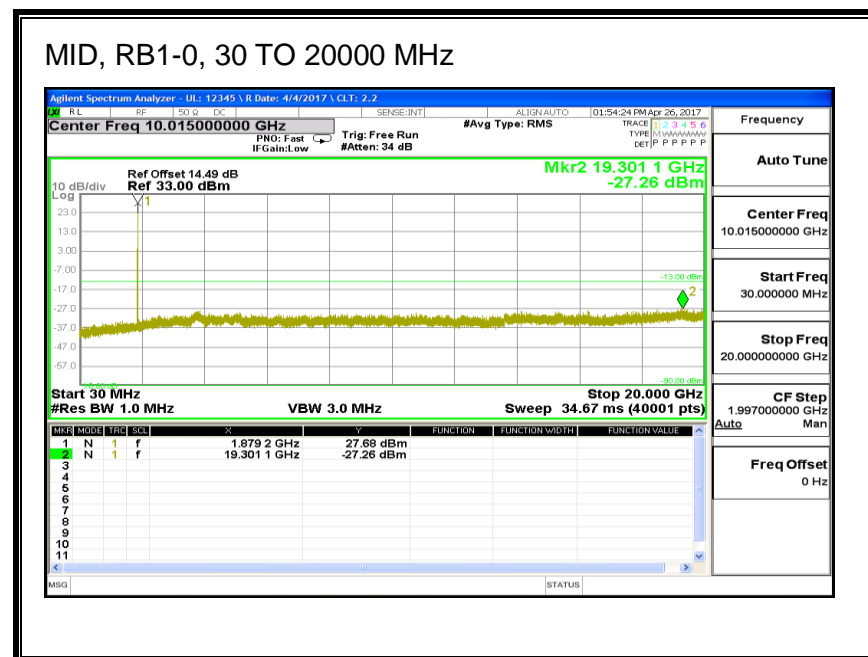
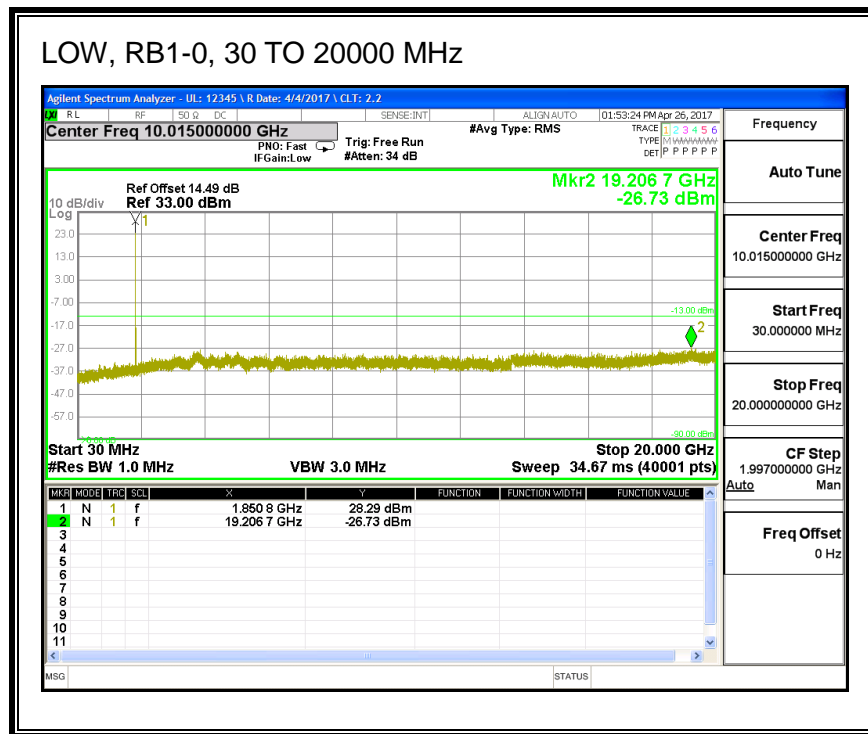


16QAM, (1.4 MHz BAND WIDTH)

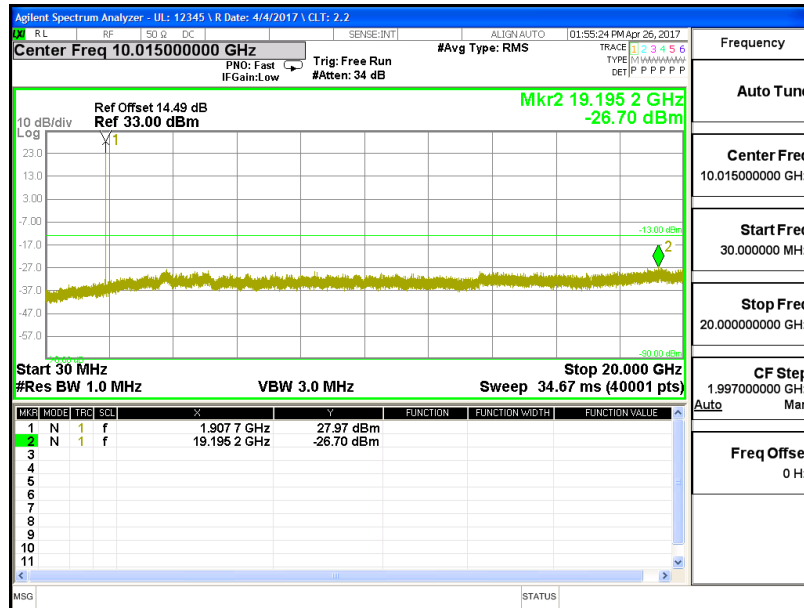




QPSK, (3.0 MHz BAND WIDTH)

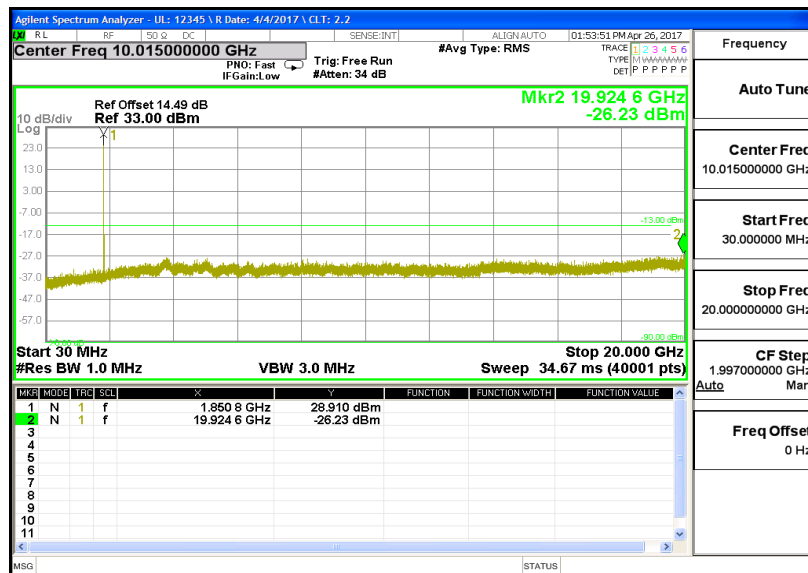


HIGH, RB1-0, 30 TO 20000 MHz

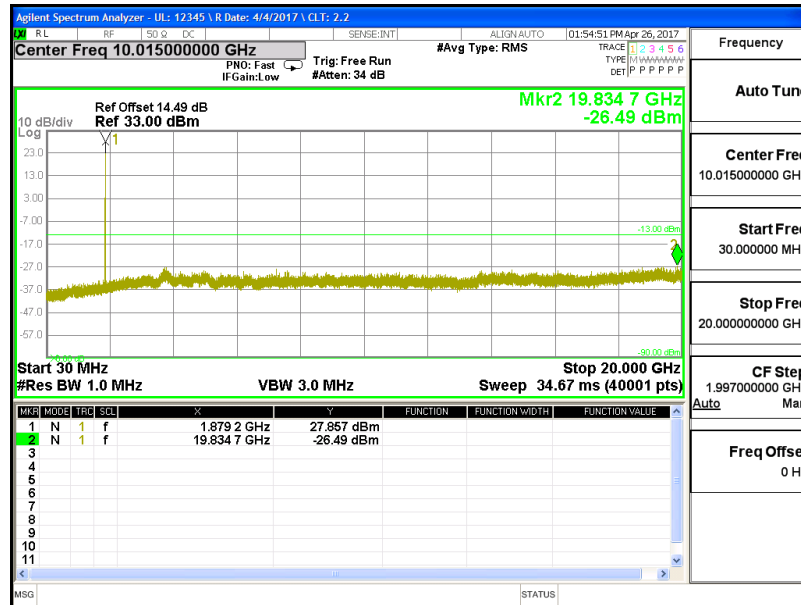


16QAM, (3.0 MHz BAND WIDTH)

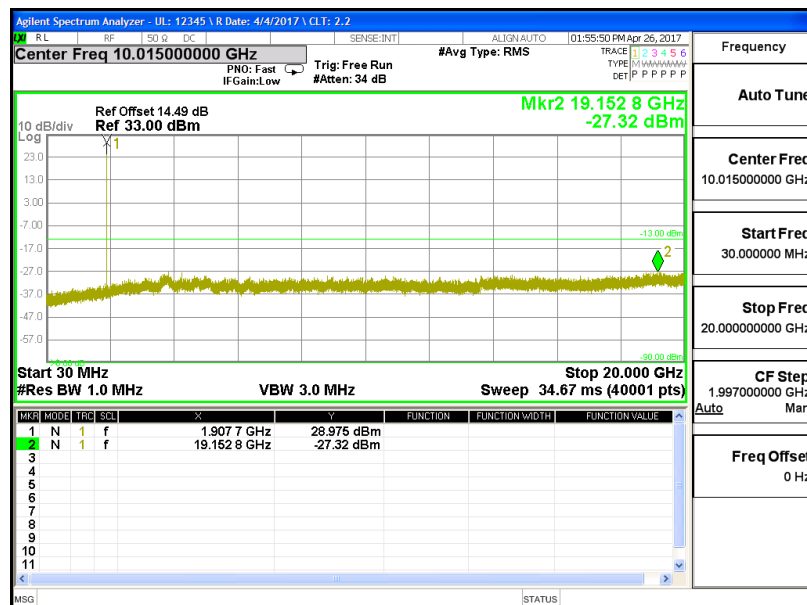
LOW, RB1-0, 30 TO 20000 MHz



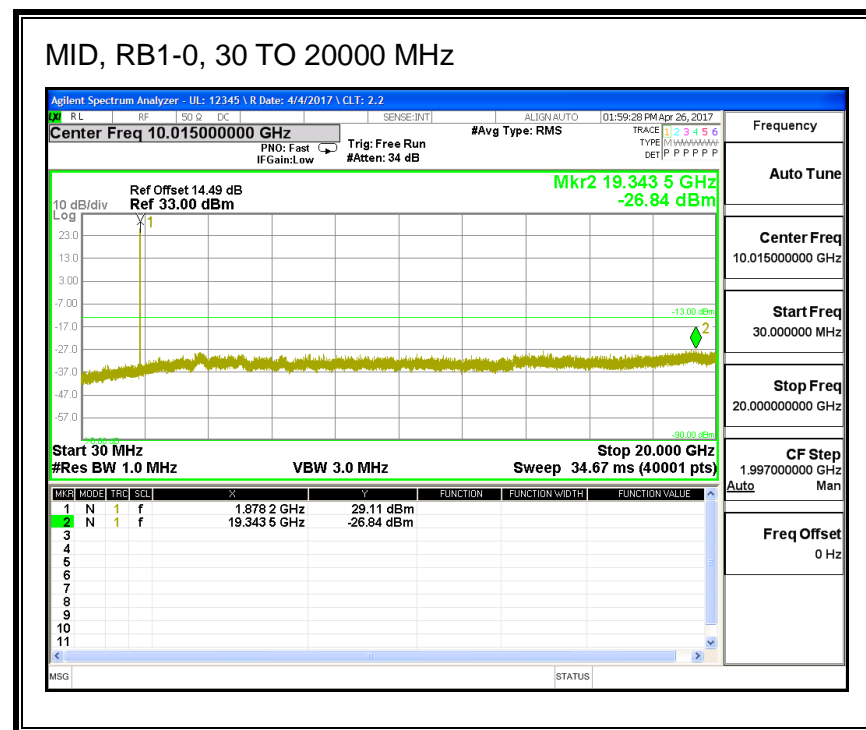
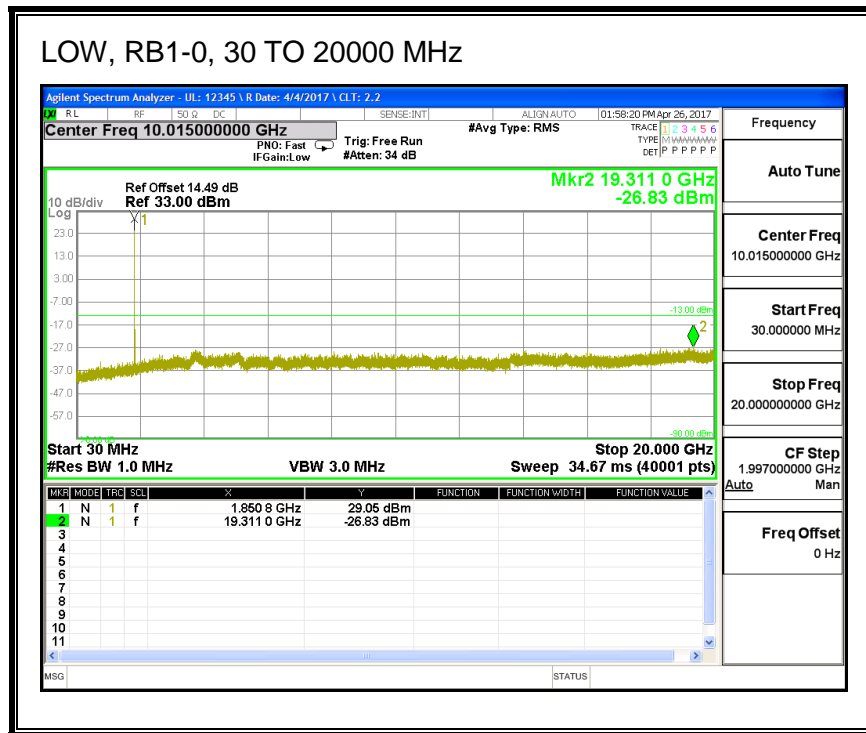
MID, RB1-0, 30 TO 20000 MHz

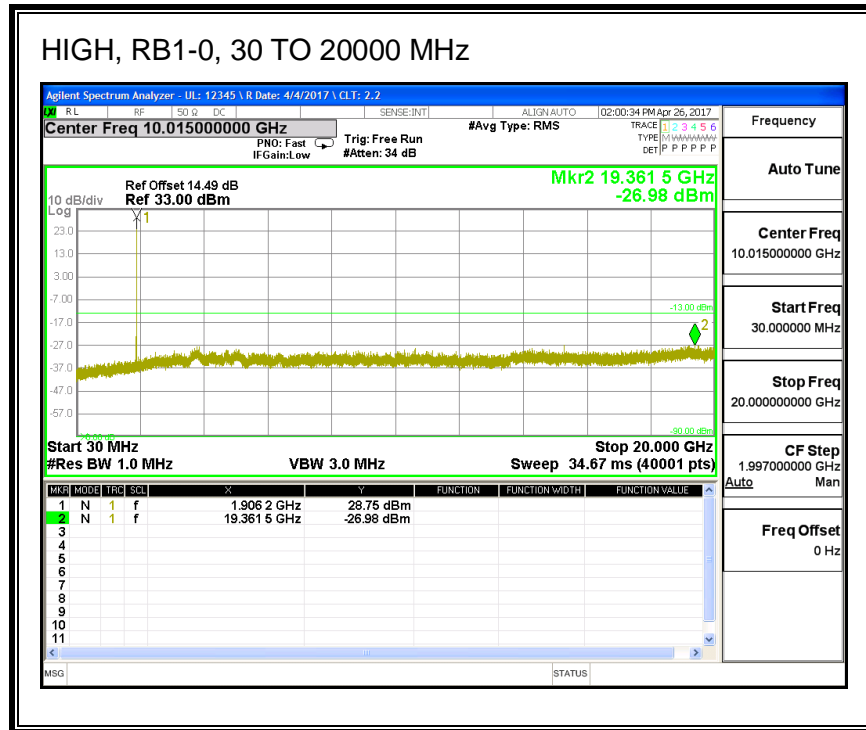


HIGH, RB1-0, 30 TO 20000 MHz

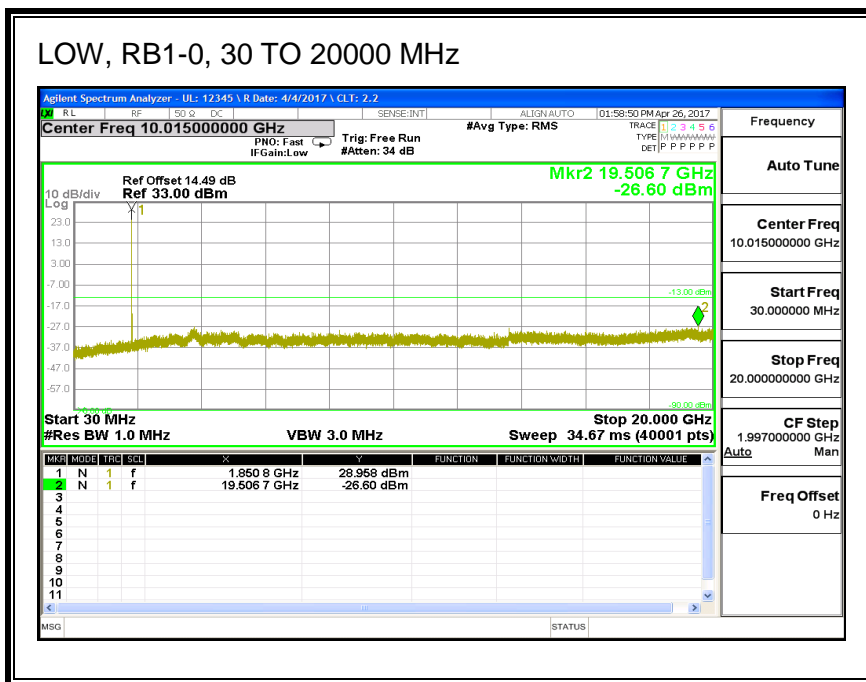


QPSK, (5.0 MHz BAND WIDTH)

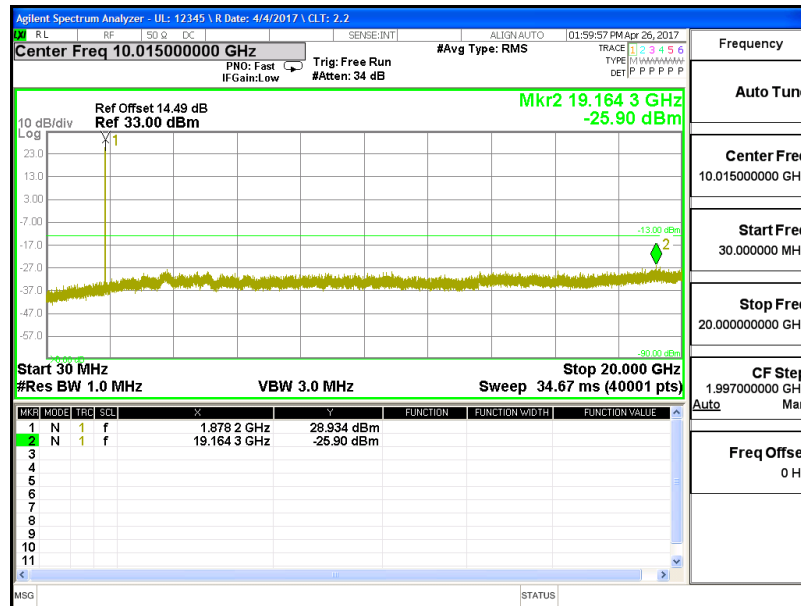




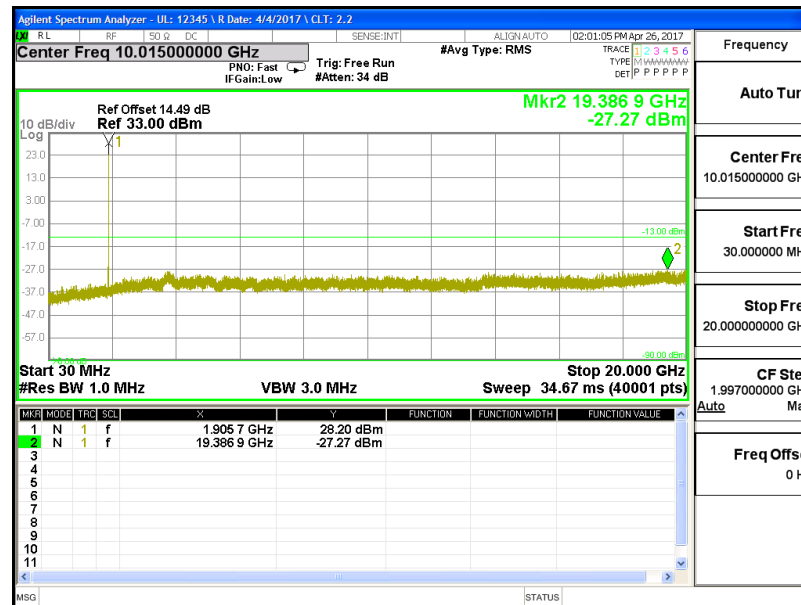
16QAM, (5.0 MHz BAND WIDTH)



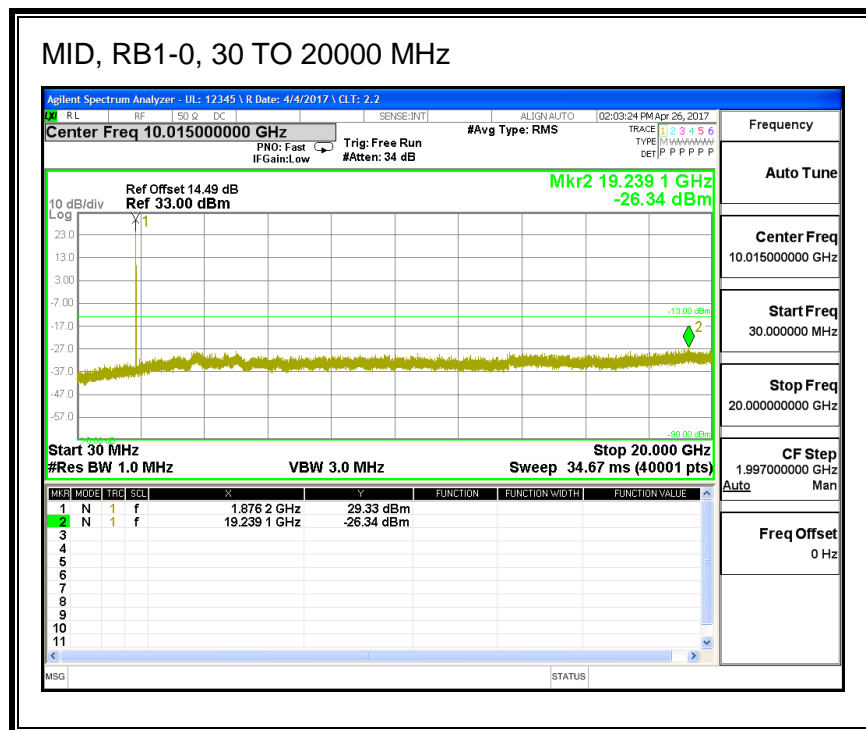
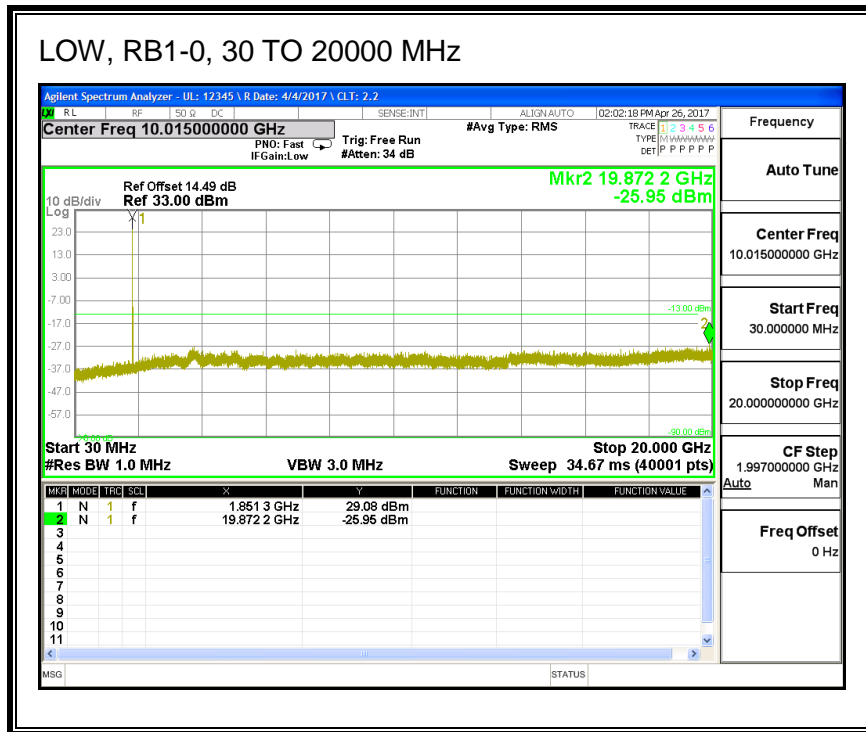
MID, RB1-0, 30 TO 20000 MHz

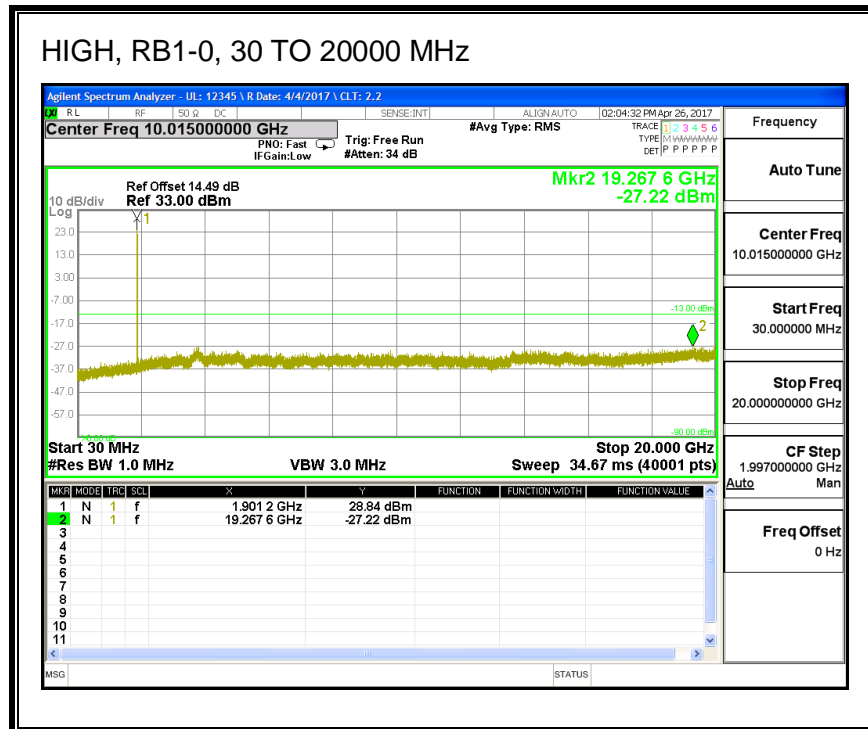


HIGH, RB1-0, 30 TO 20000 MHz

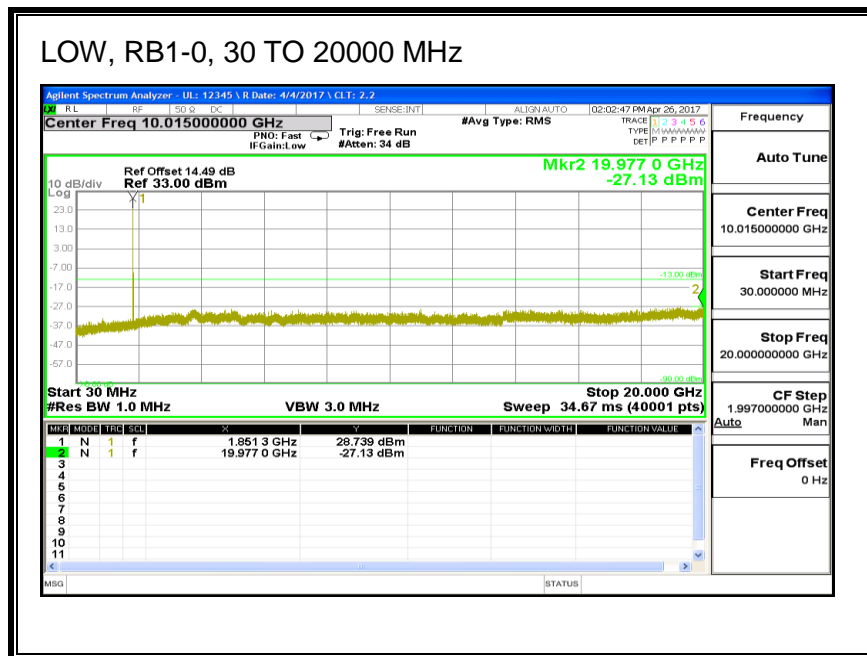


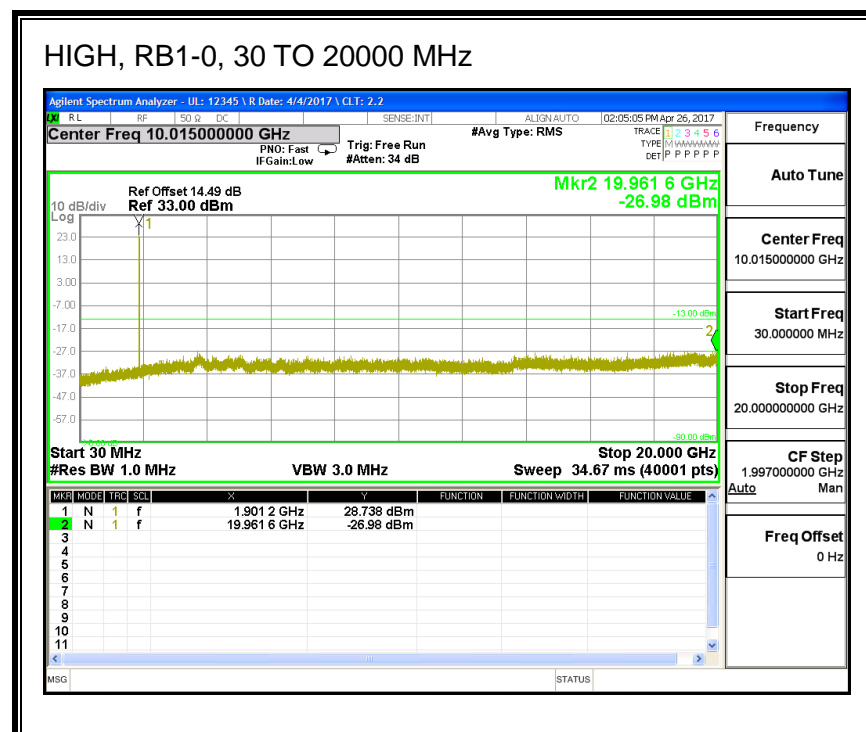
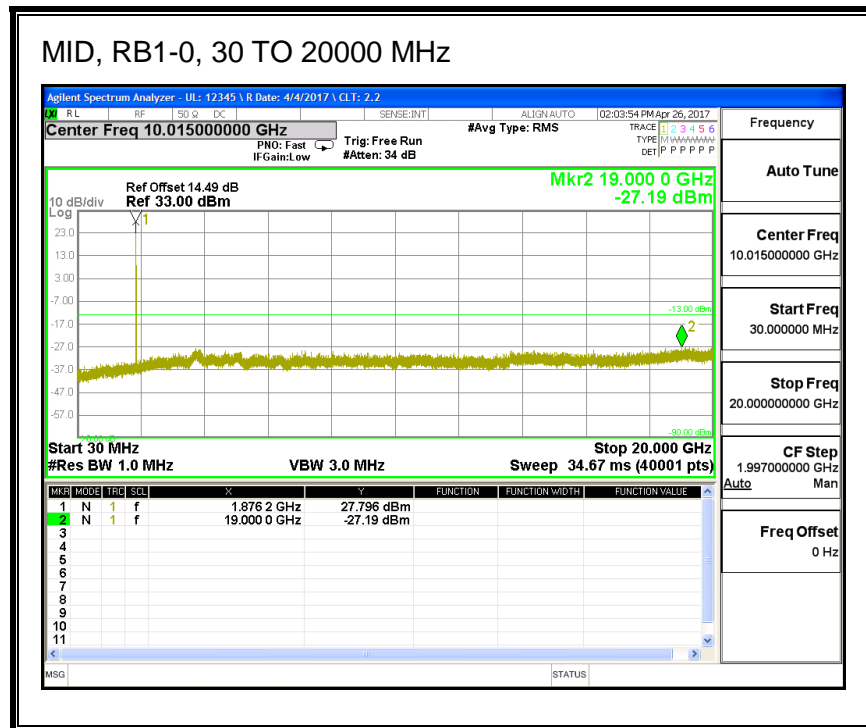
QPSK, (10.0 MHz BAND WIDTH)



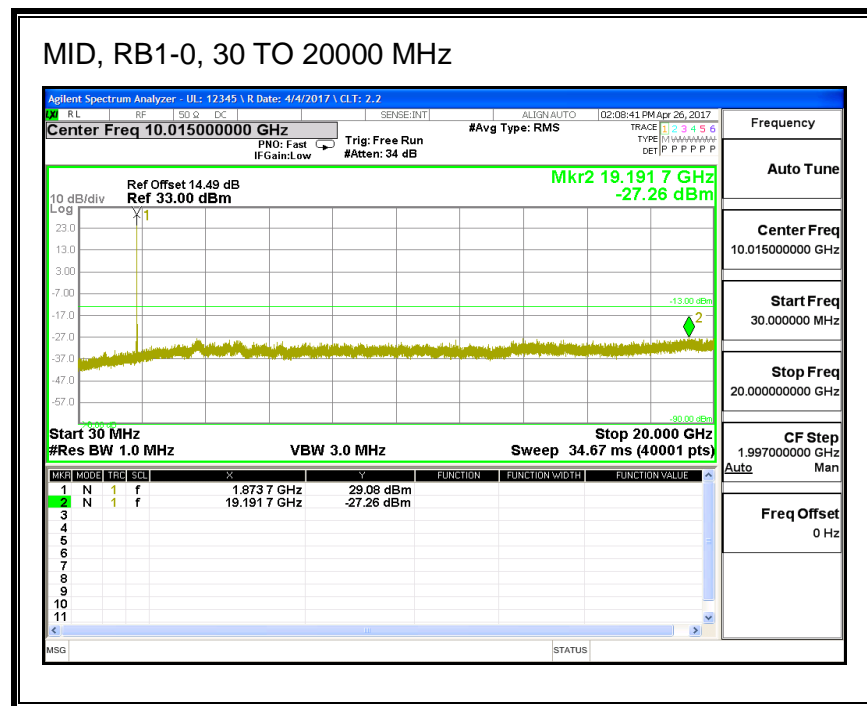
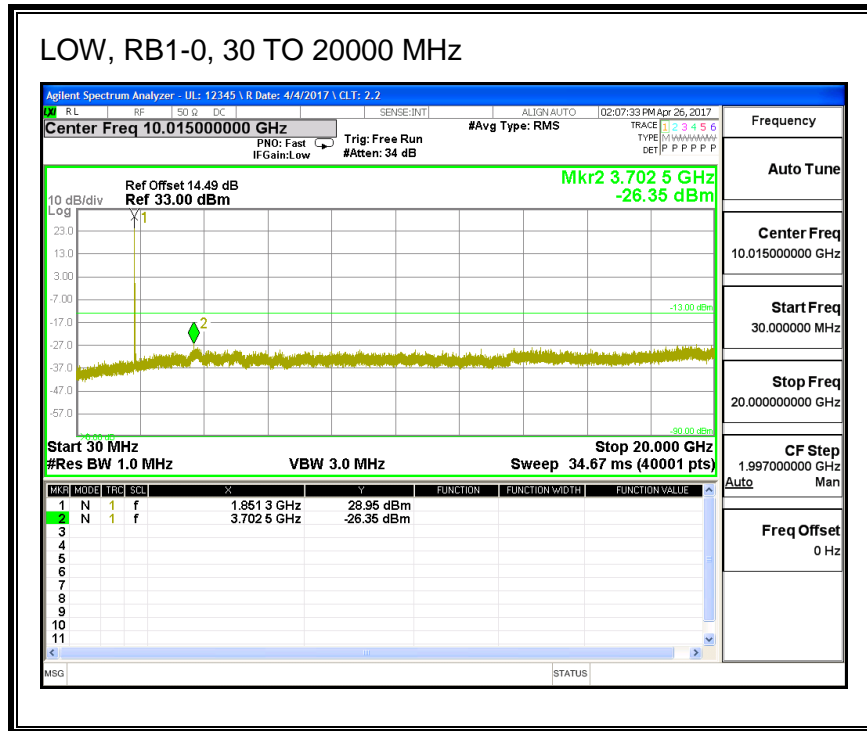


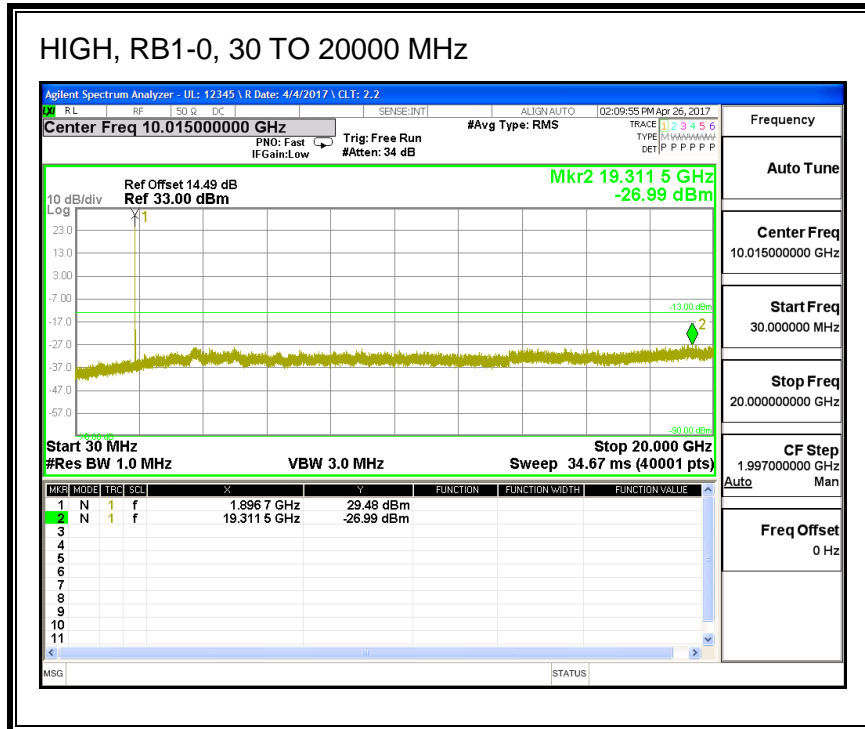
16QAM, (10.0 MHz BAND WIDTH)



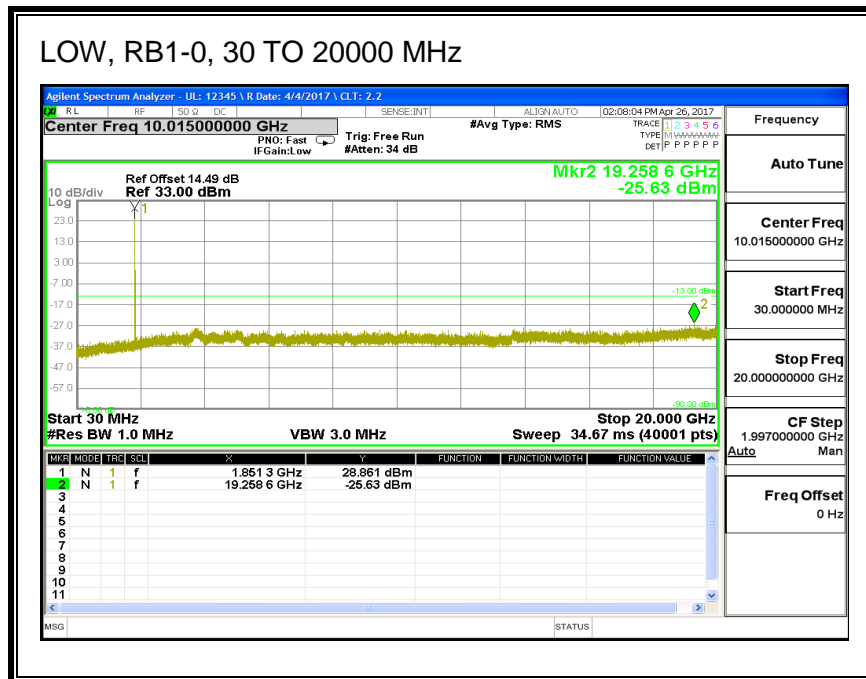


QPSK, (15.0 MHz BAND WIDTH)

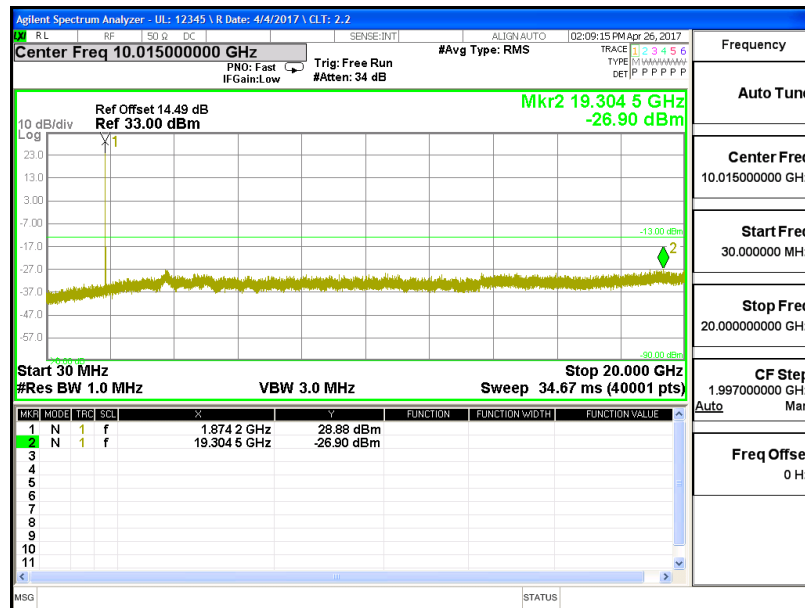




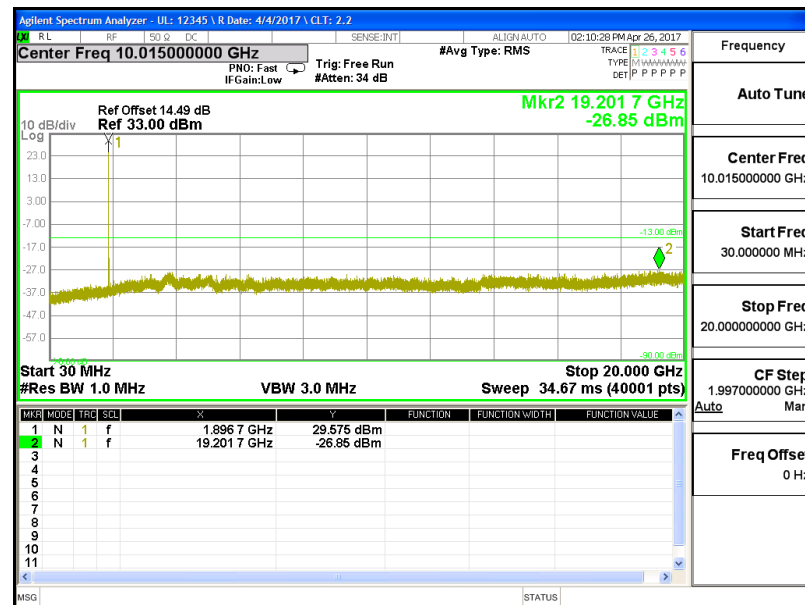
16QAM, (15.0 MHz BAND WIDTH)



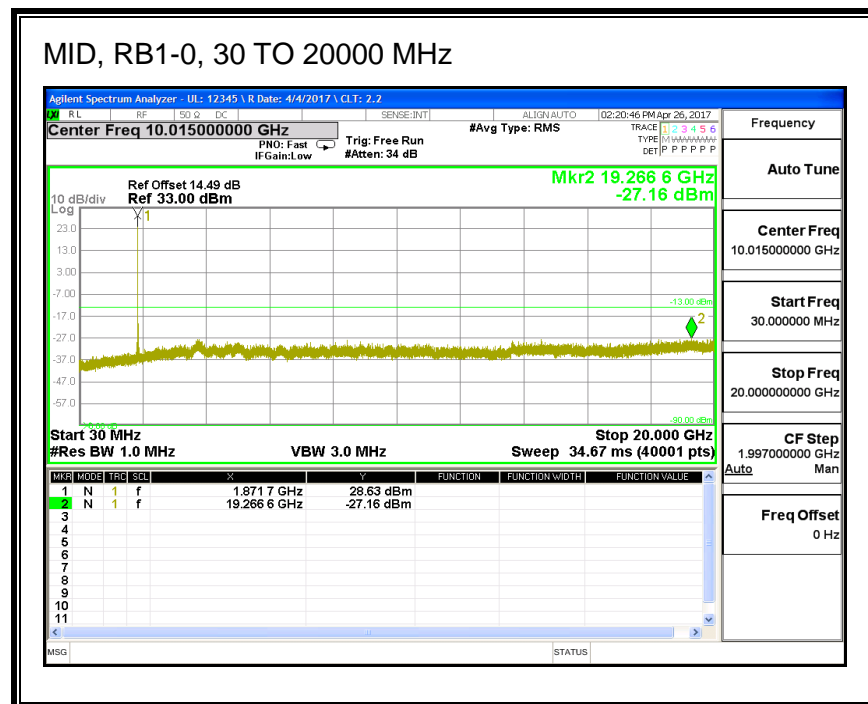
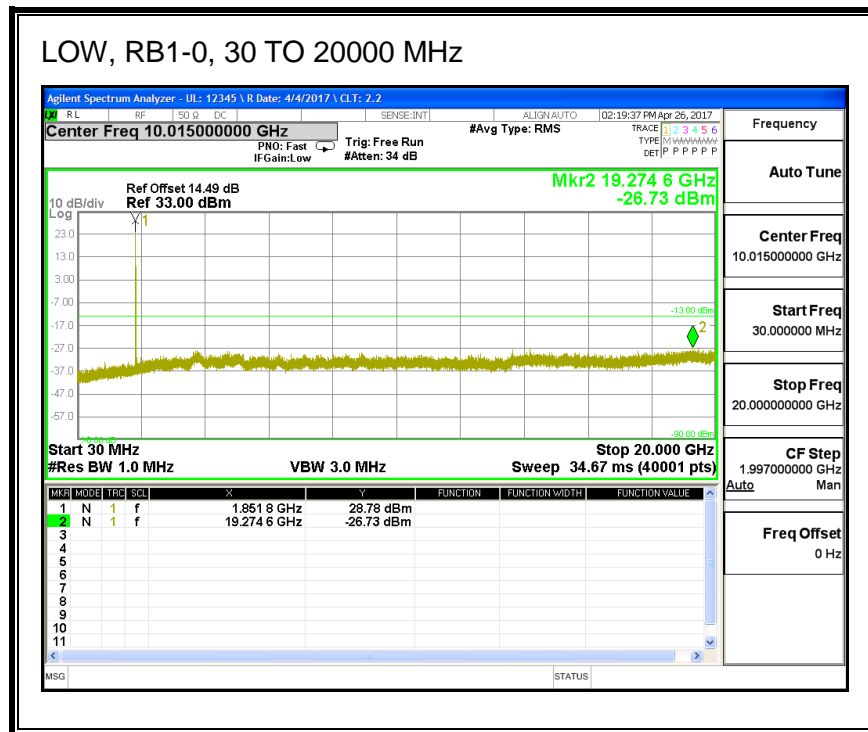
MID, RB1-0, 30 TO 20000 MHz

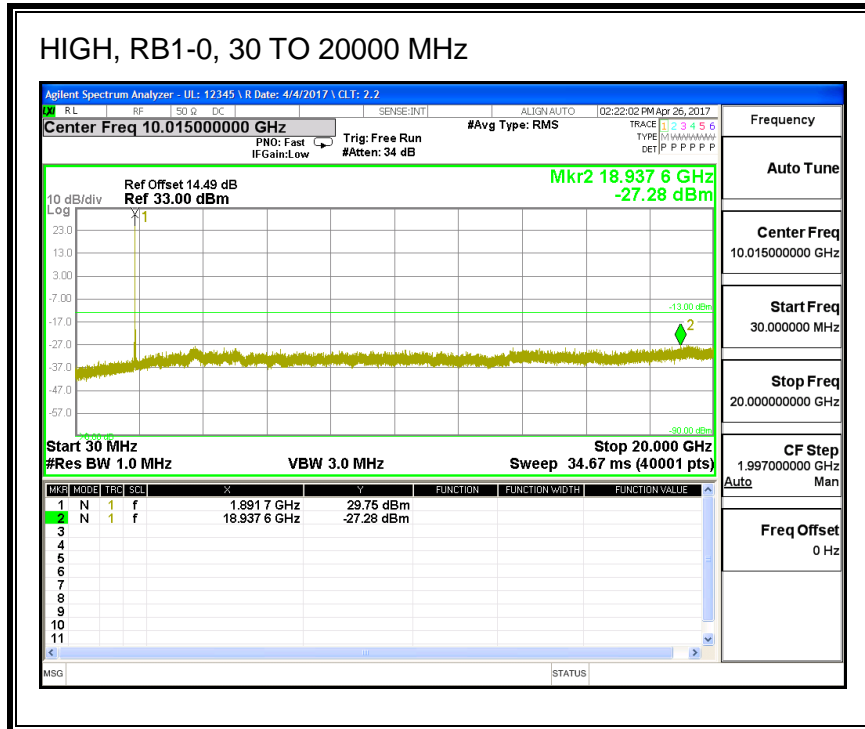


HIGH, RB1-0, 30 TO 20000 MHz

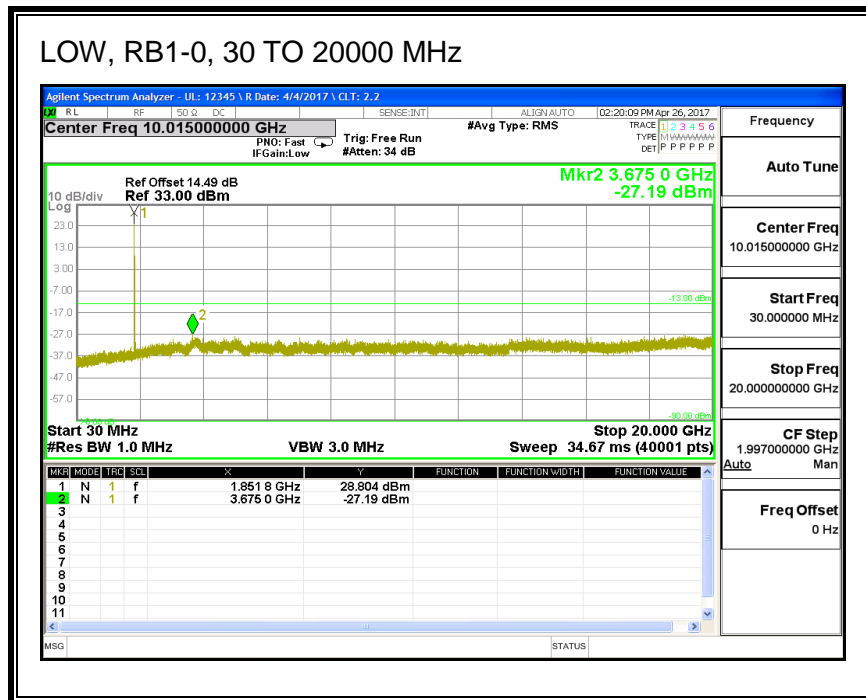


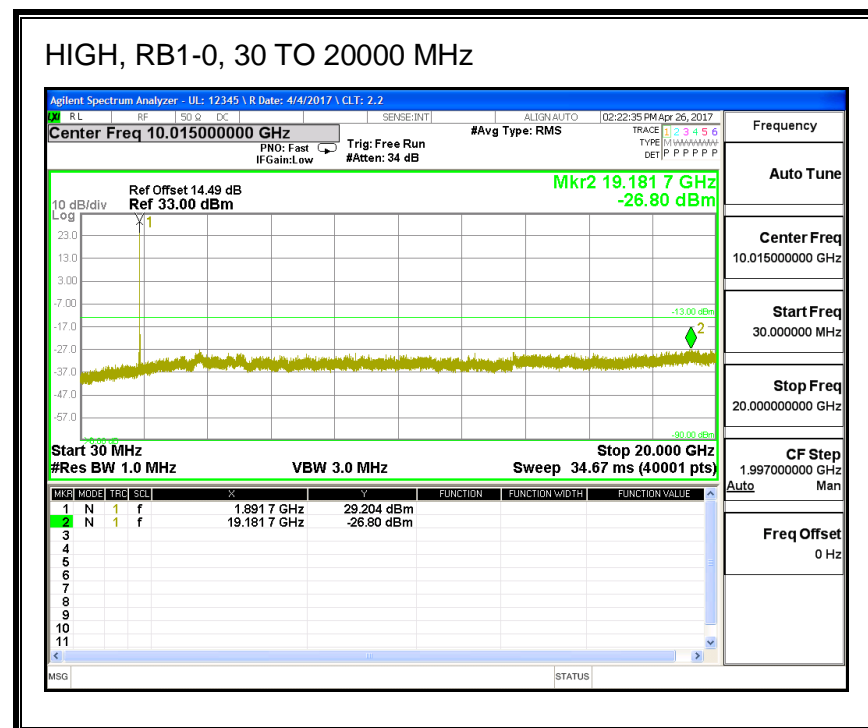
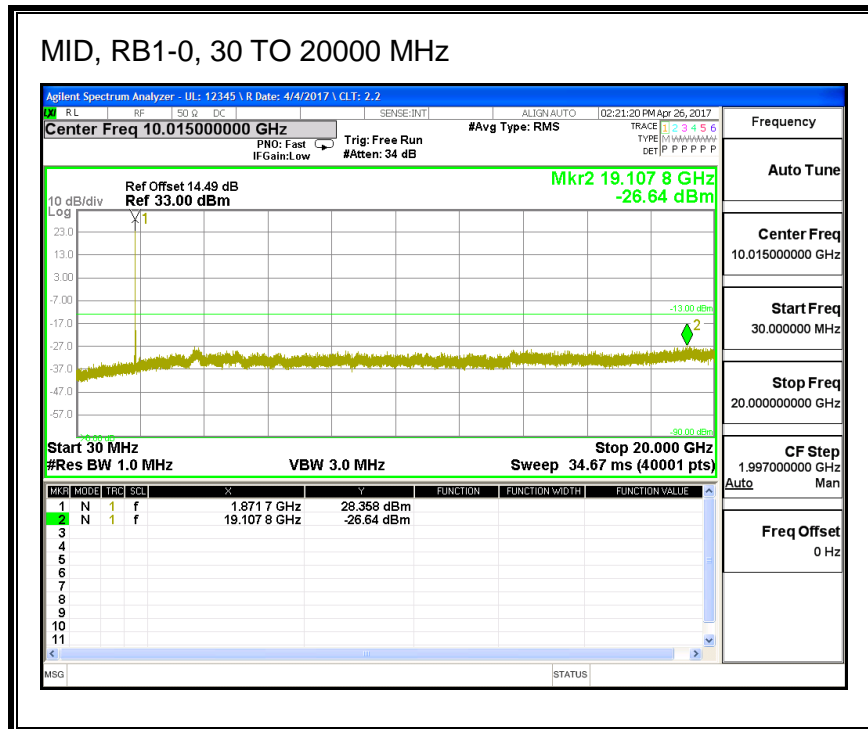
QPSK, (20.0 MHz BAND WIDTH)





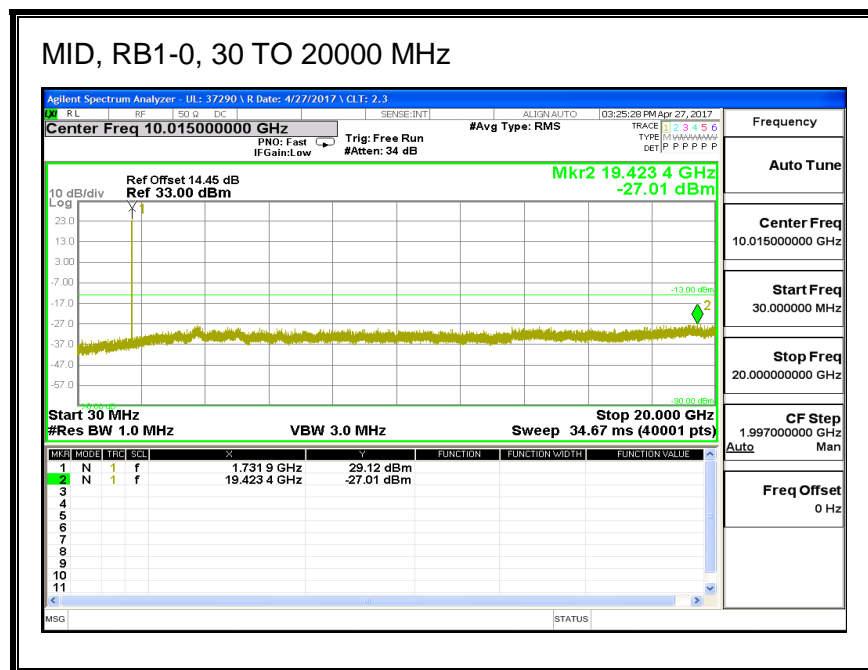
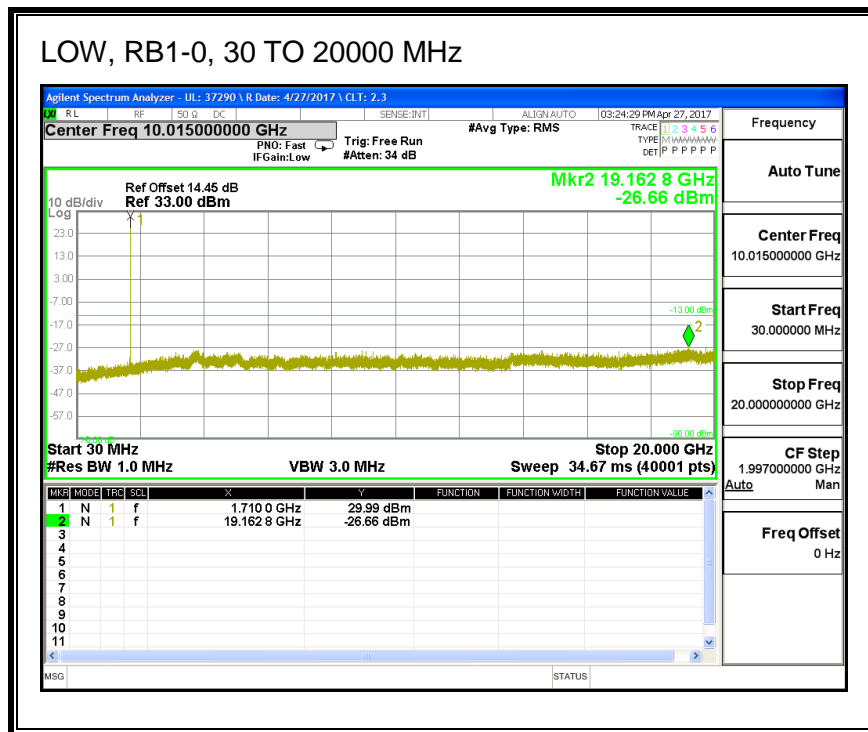
16QAM, (20.0 MHz BAND WIDTH)



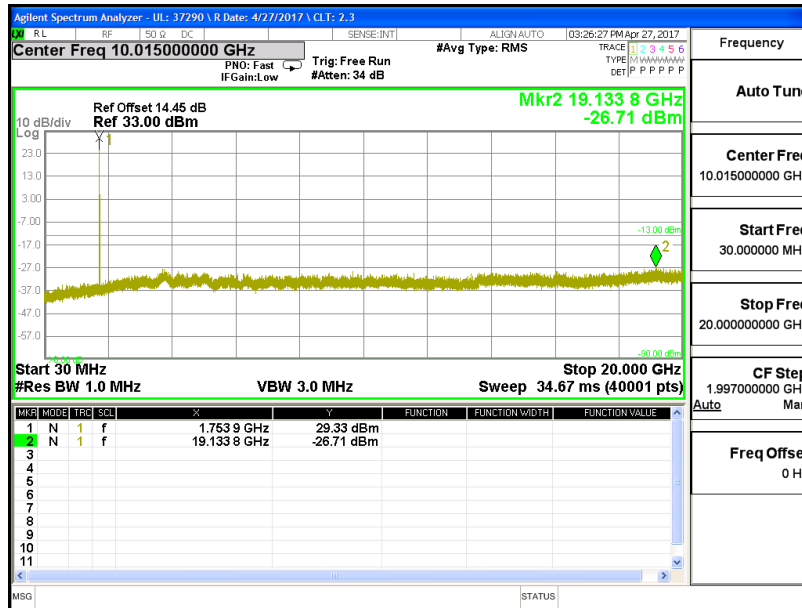


8.3.2. LTE BAND 4

QPSK, (1.4 MHz BAND WIDTH)

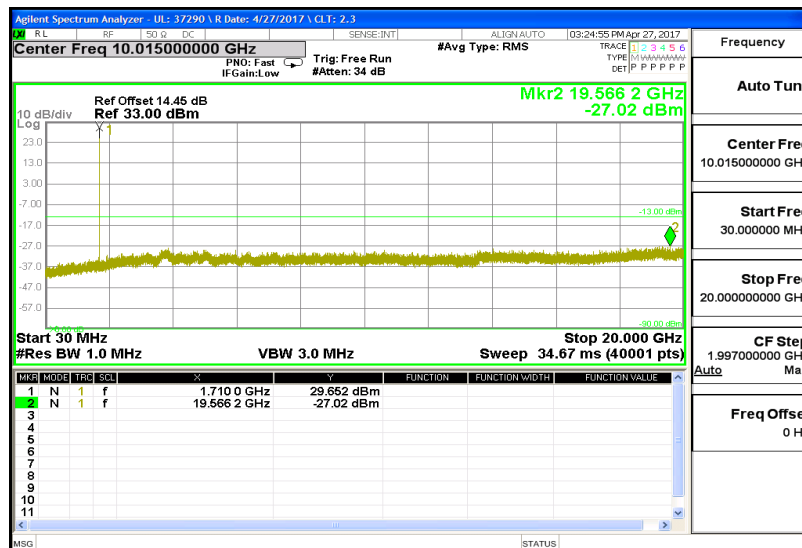


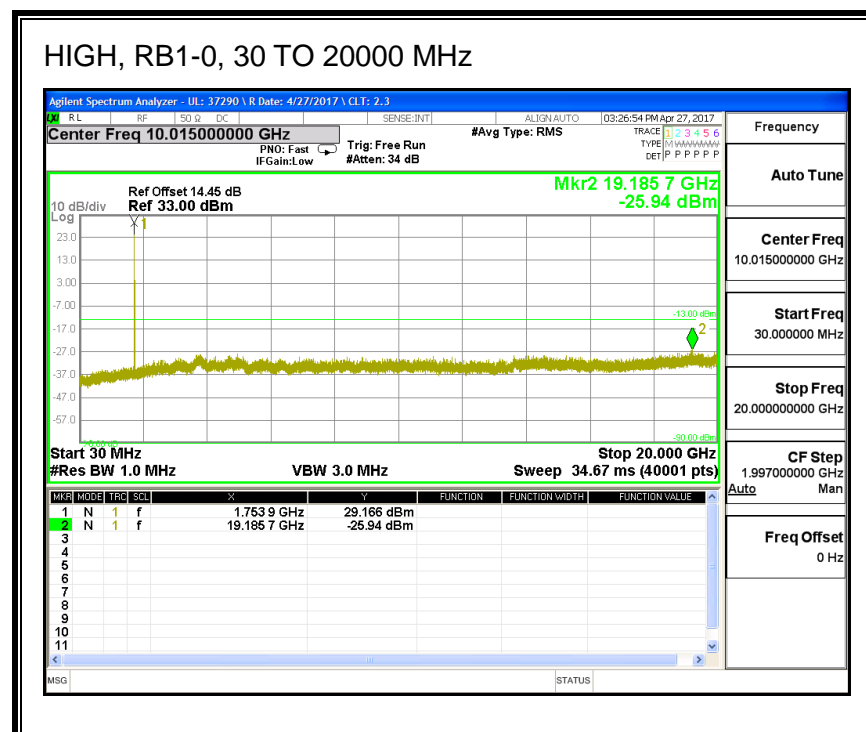
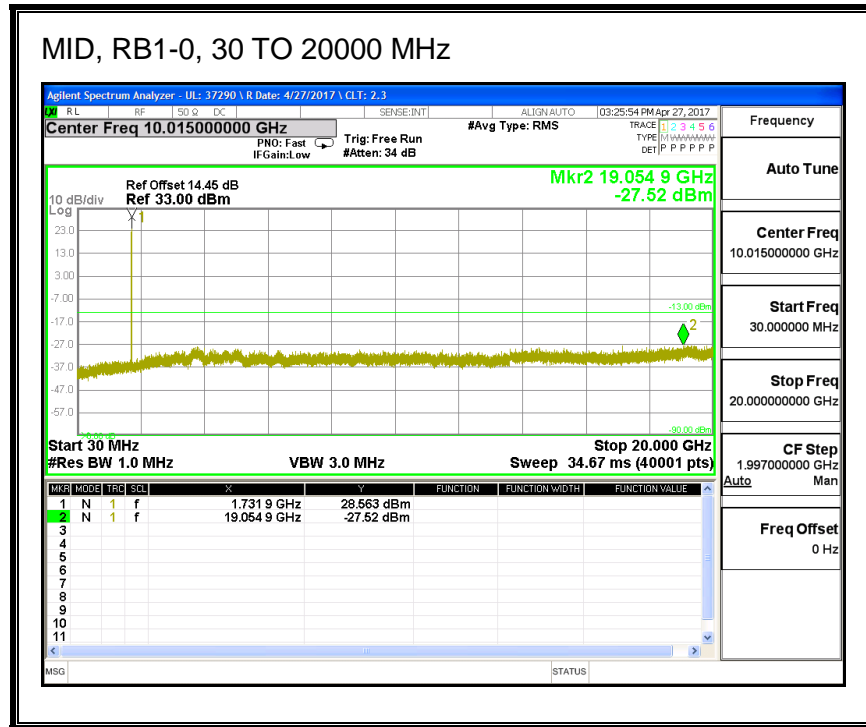
HIGH, RB1-0, 30 TO 20000 MHz



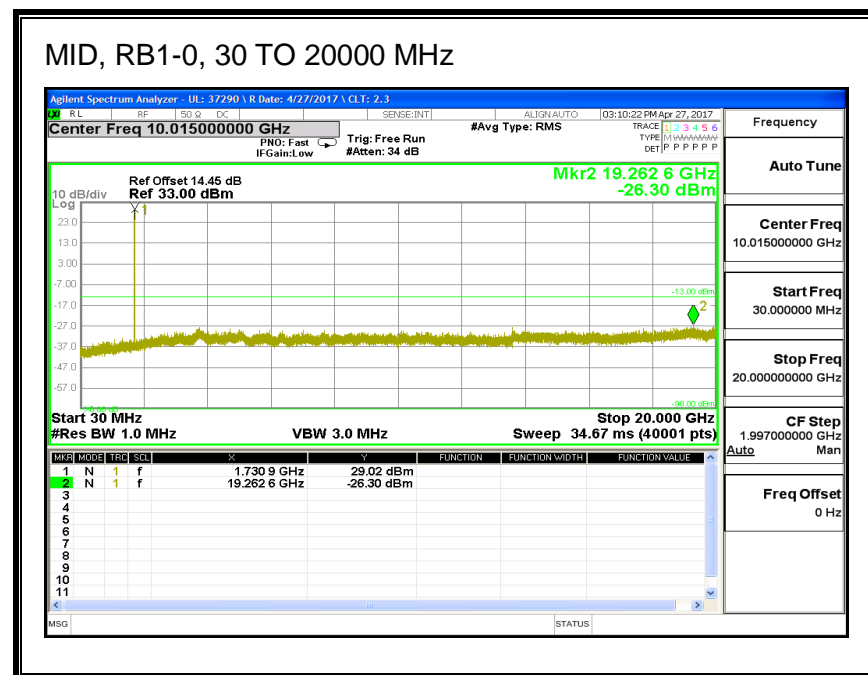
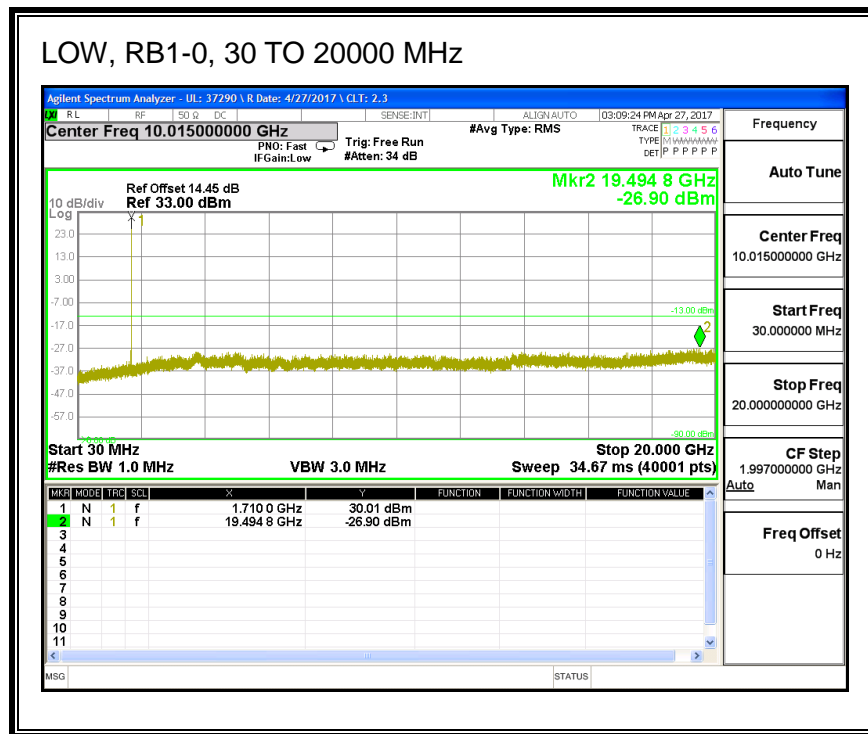
16QAM, (1.4 MHz BAND WIDTH)

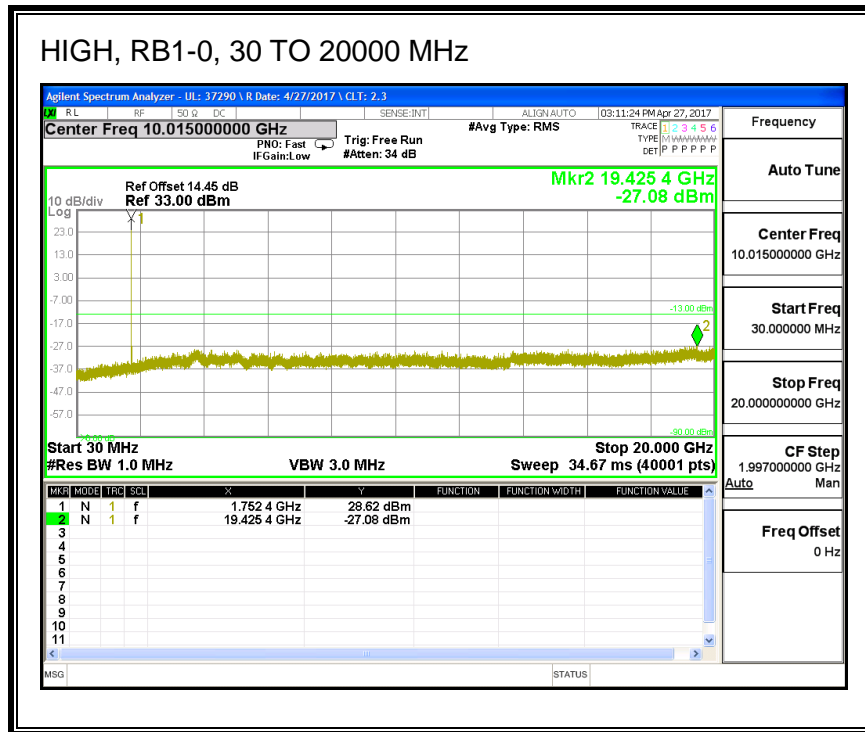
LOW, RB1-0, 30 TO 20000 MHz



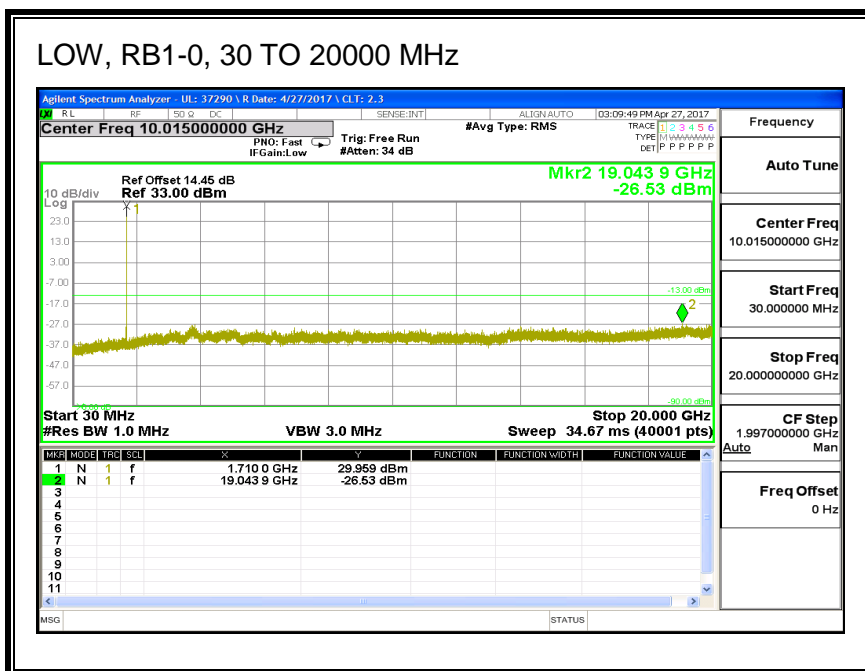


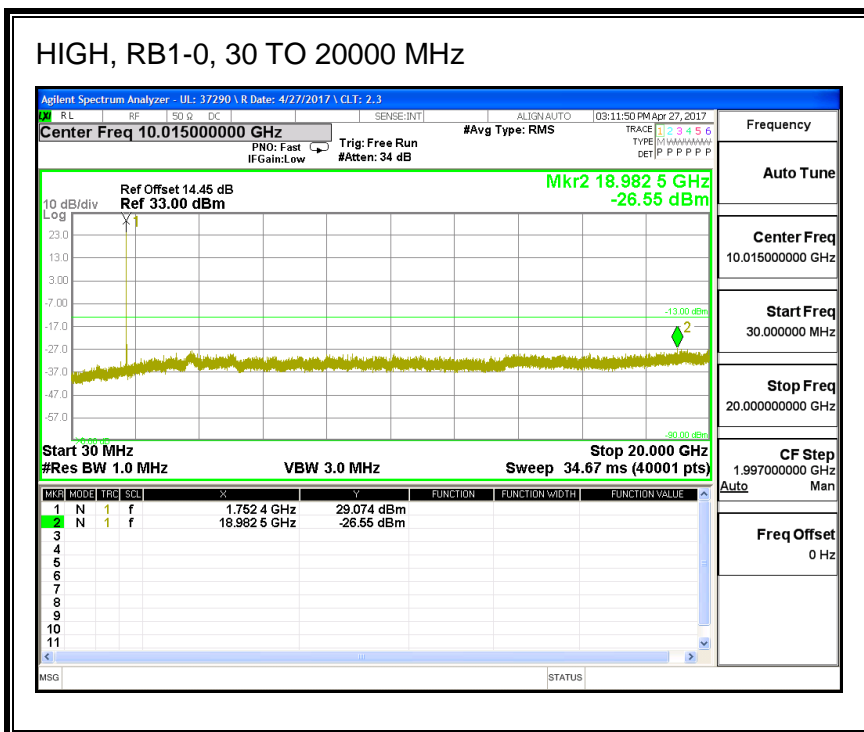
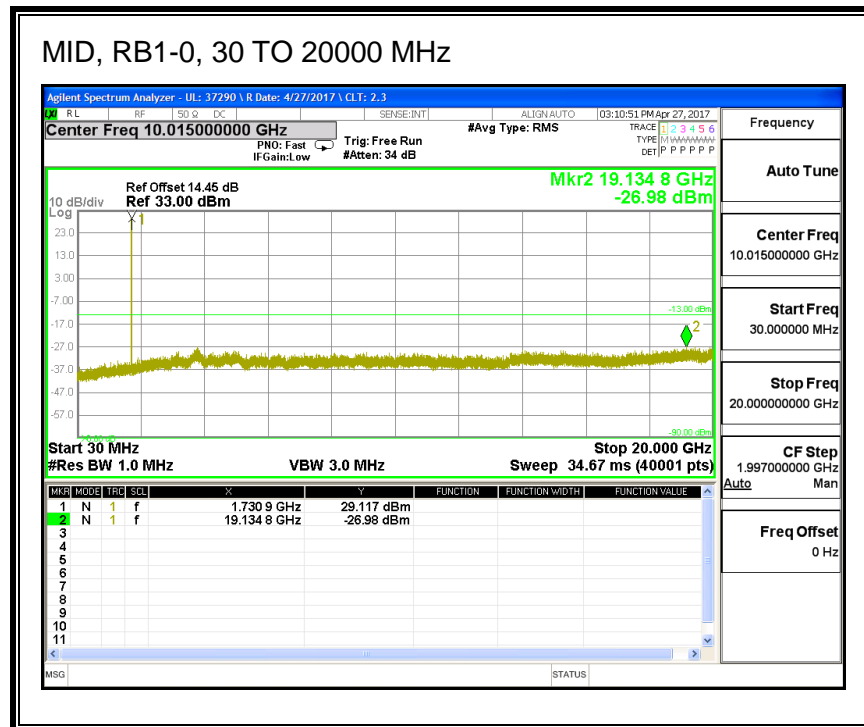
QPSK, (3.0 MHz BAND WIDTH)





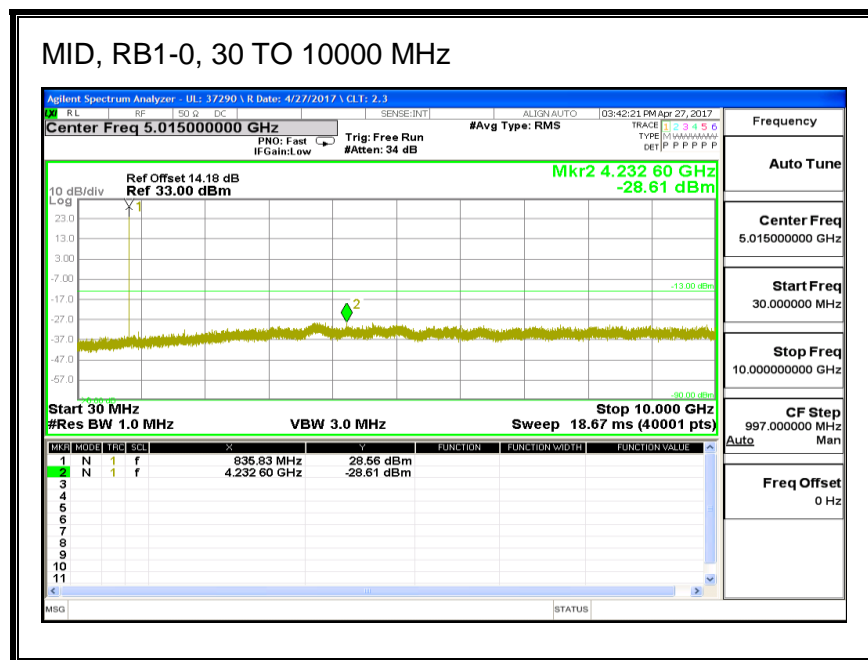
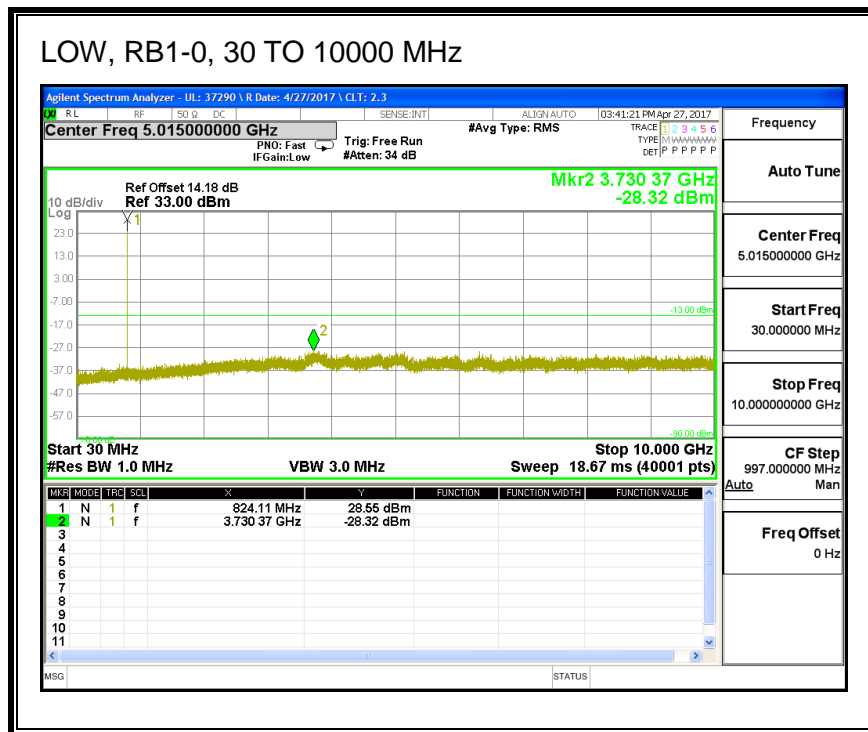
16QAM, (3.0 MHz BAND WIDTH)



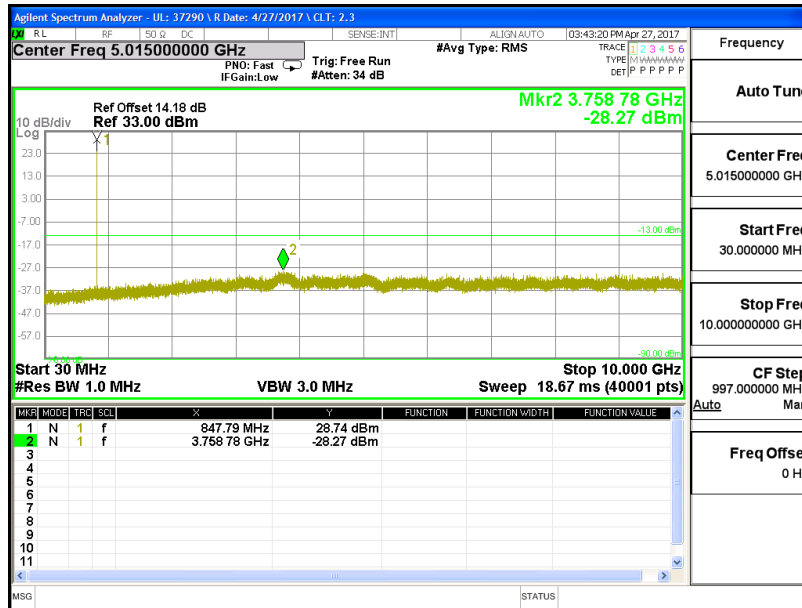


8.3.3. LTE BAND 5

QPSK, (1.4 MHz BAND WIDTH)

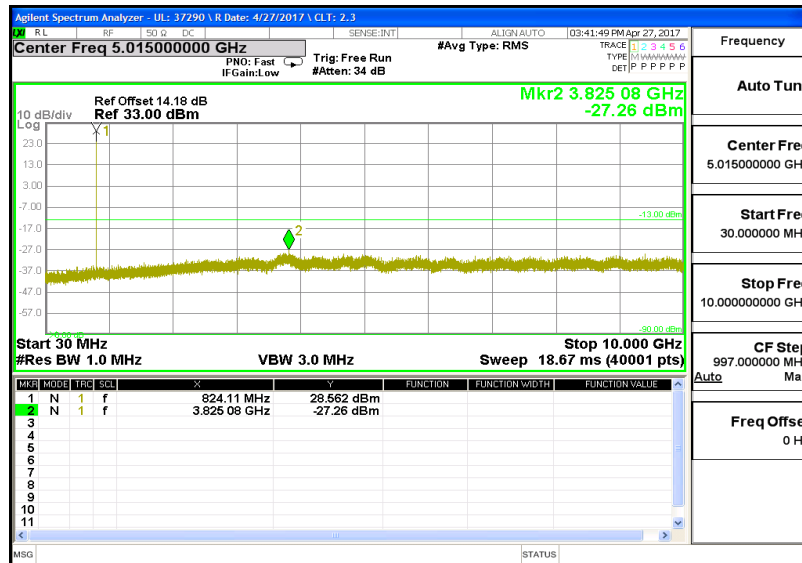


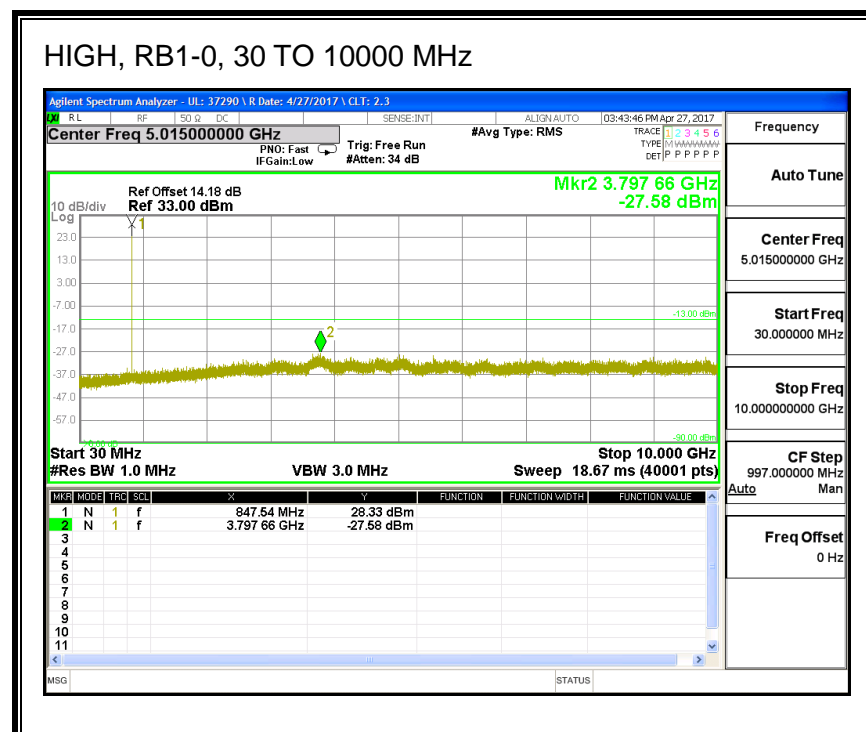
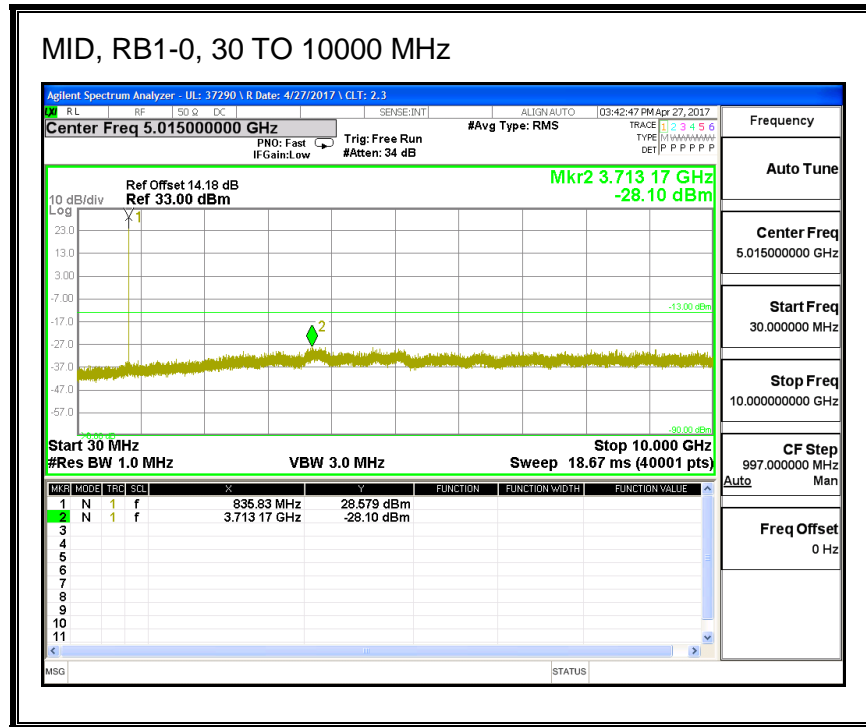
HIGH, RB1-0, 30 TO 10000 MHz



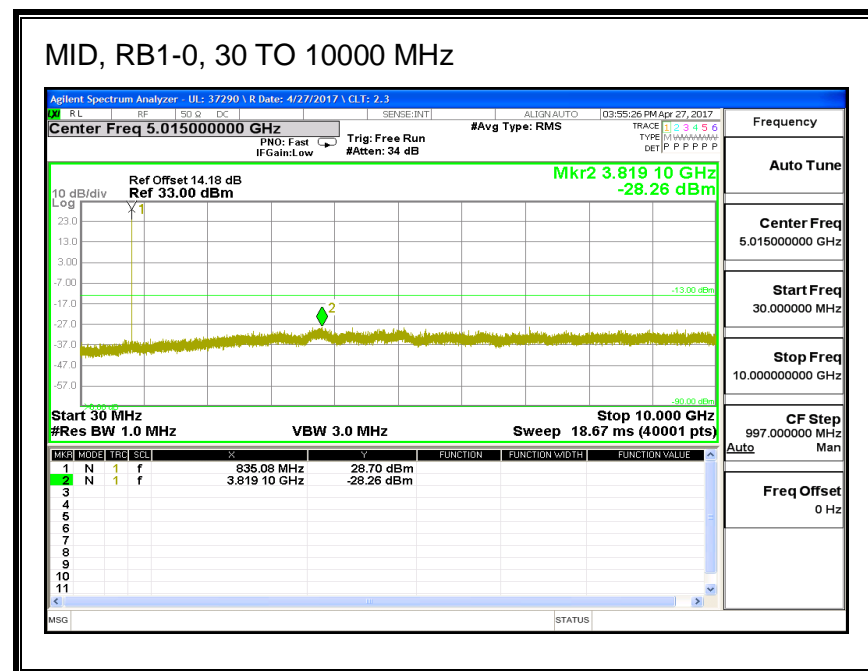
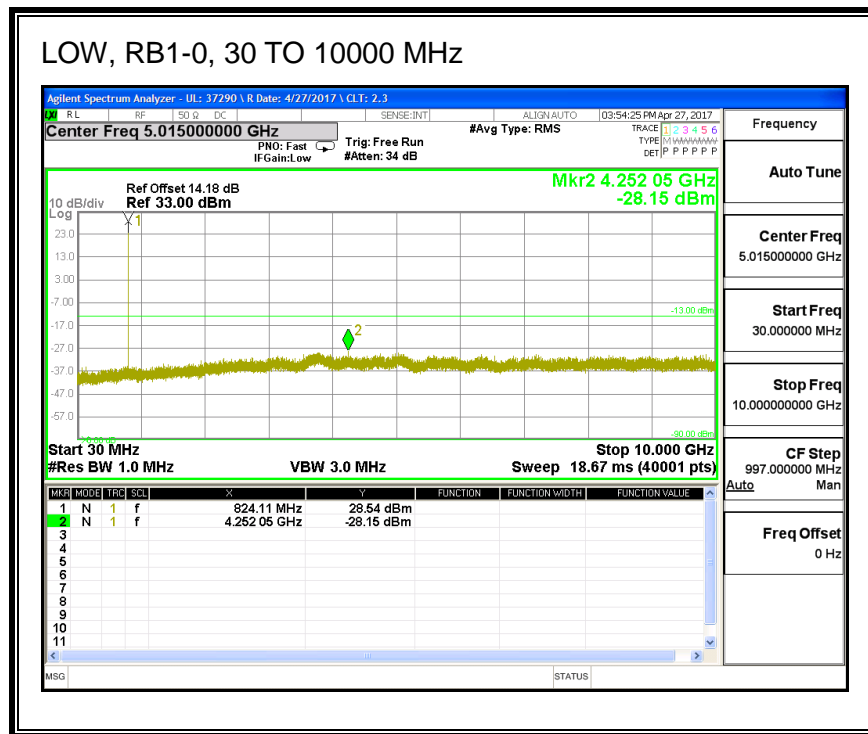
16QAM, (1.4 MHz BAND WIDTH)

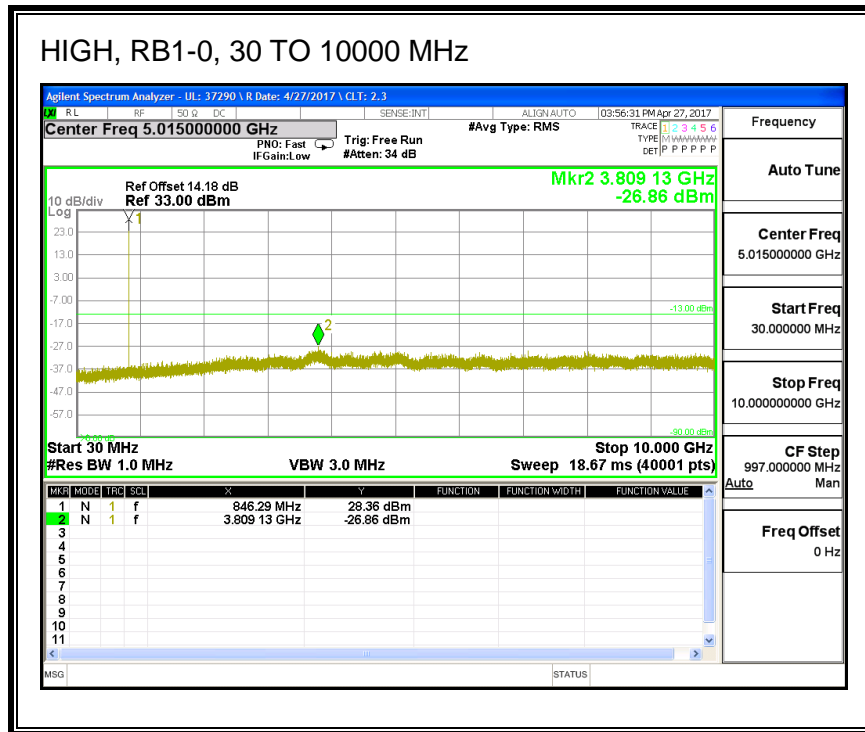
LOW, RB1-0, 30 TO 10000 MHz



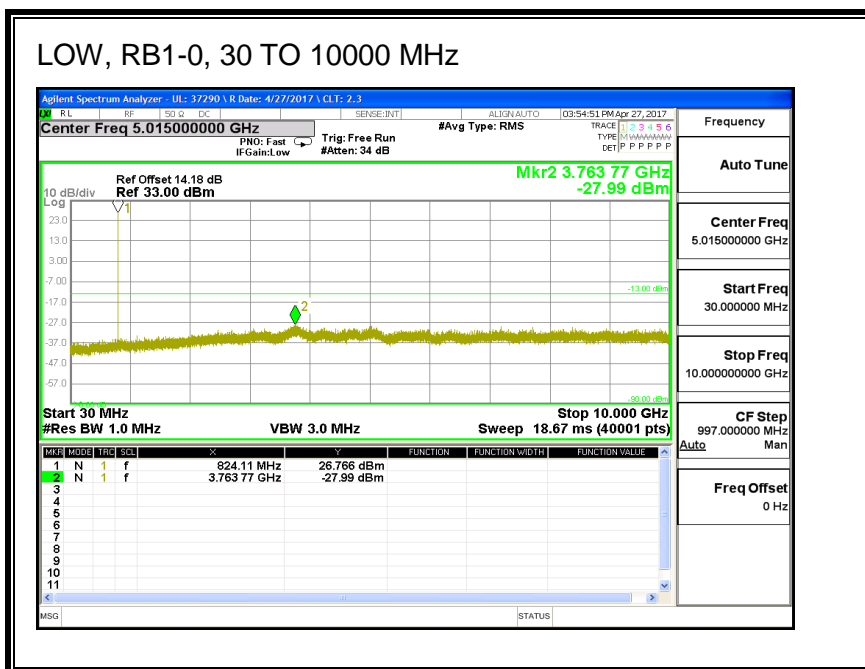


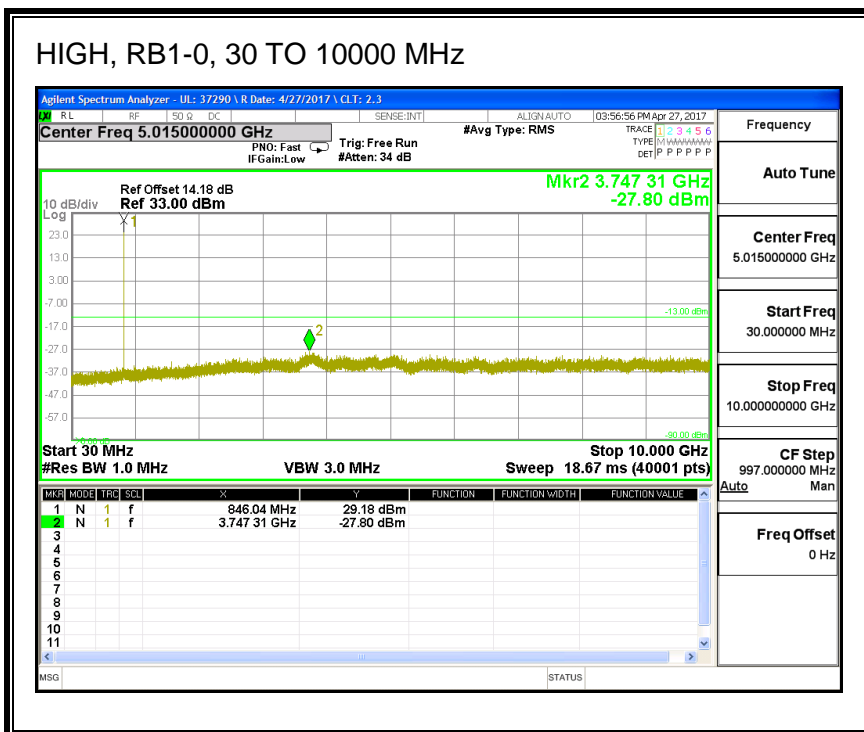
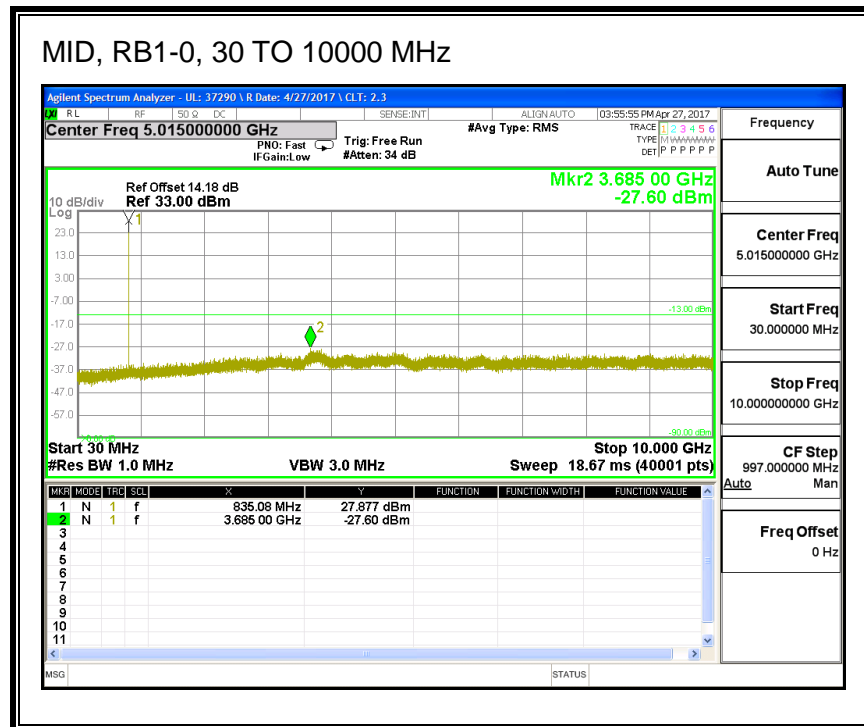
QPSK, (3.0 MHz BAND WIDTH)





16QAM, (3.0 MHz BAND WIDTH)





QPSK, (5.0 MHz BAND WIDTH)

