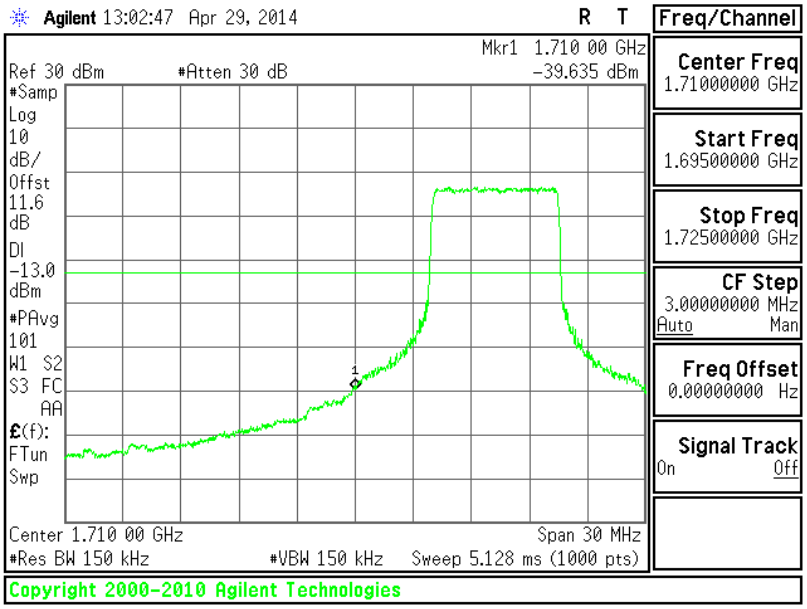
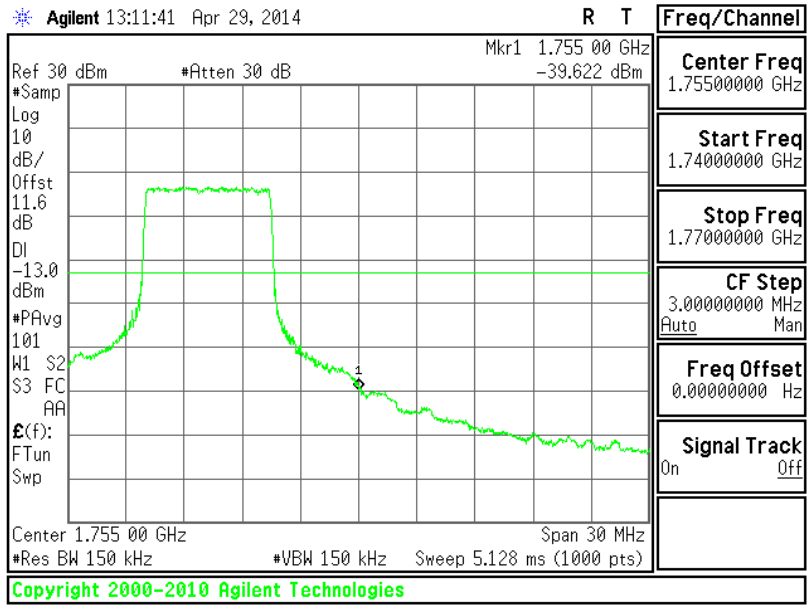
LOW CH, RB36-18



HIGH CH, RB36-18



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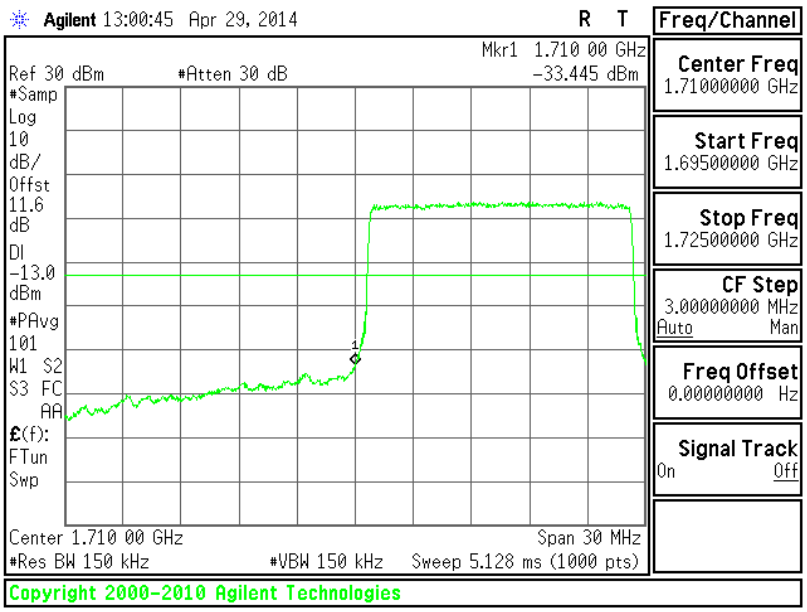
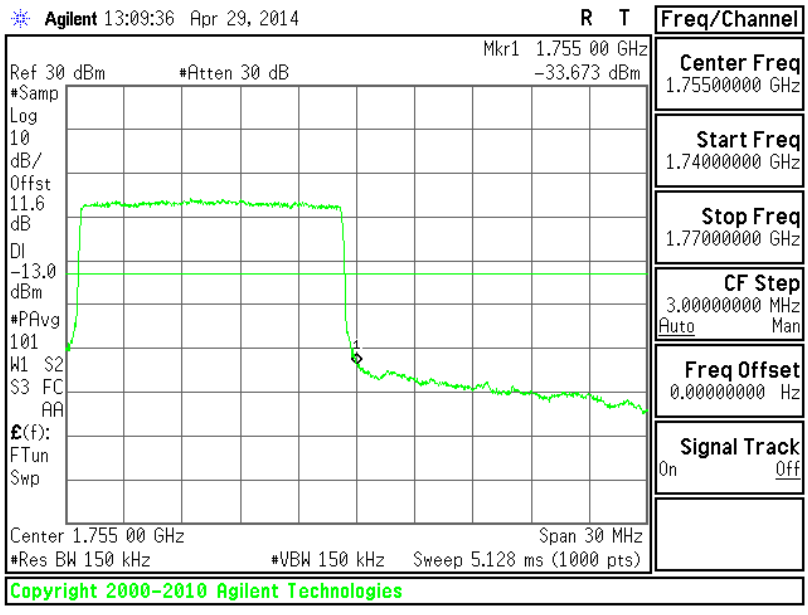
LOW CH, RB75-0



HIGH CH, RB75-0



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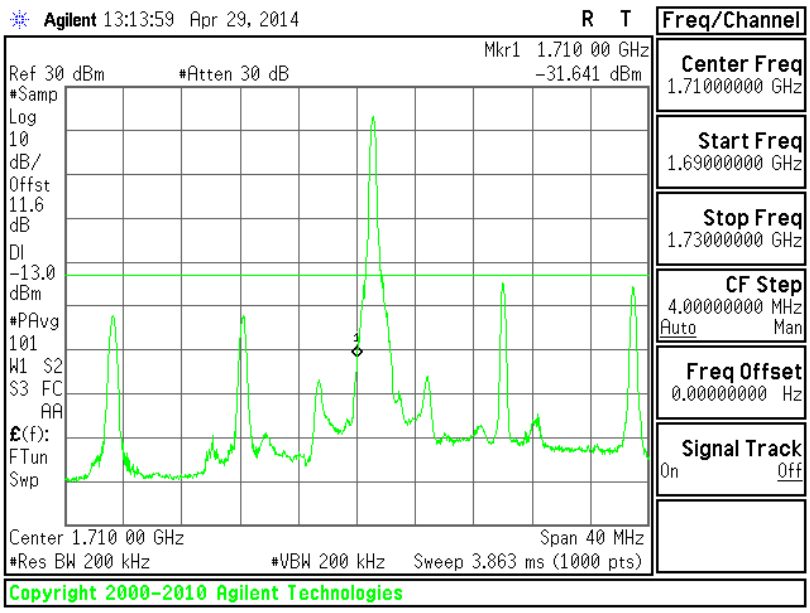
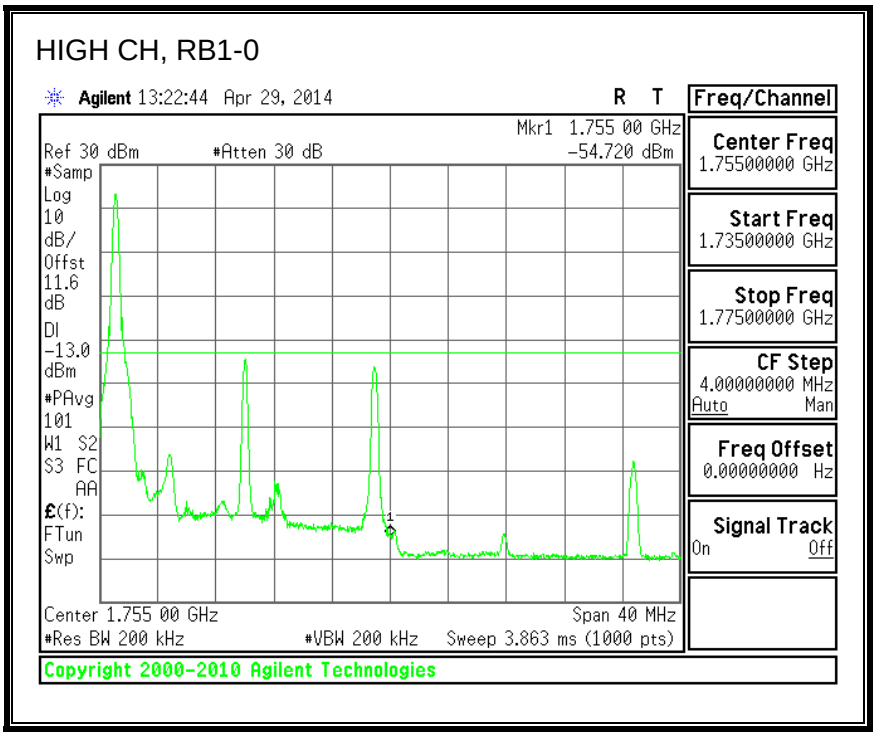
QPSK, (20.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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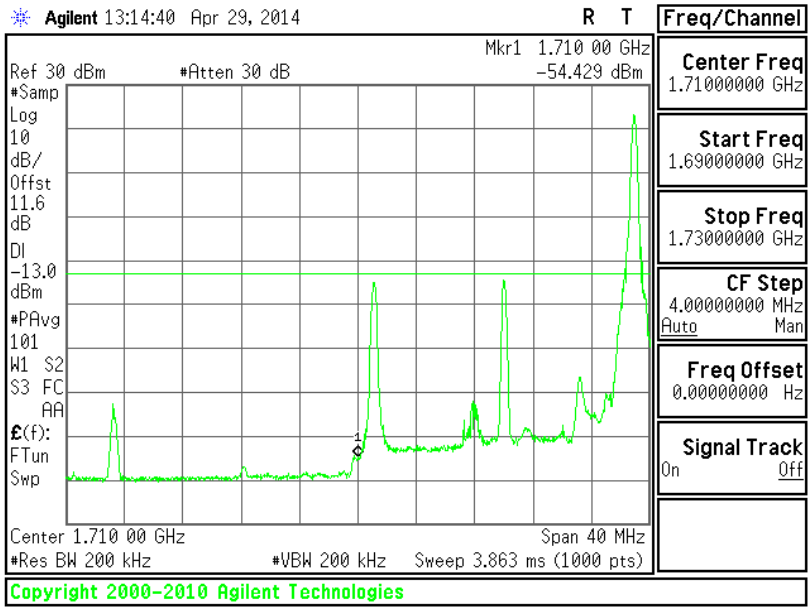
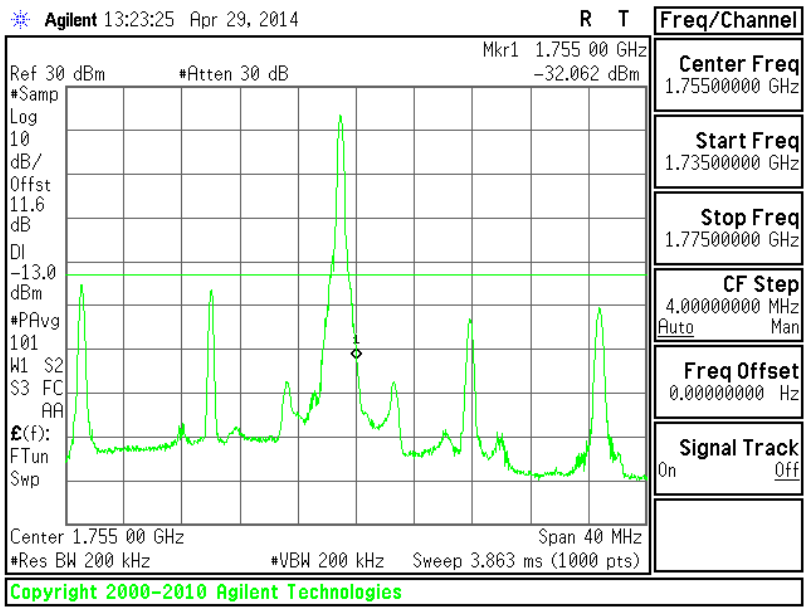
LOW CH, RB1-99



HIGH CH, RB1-99



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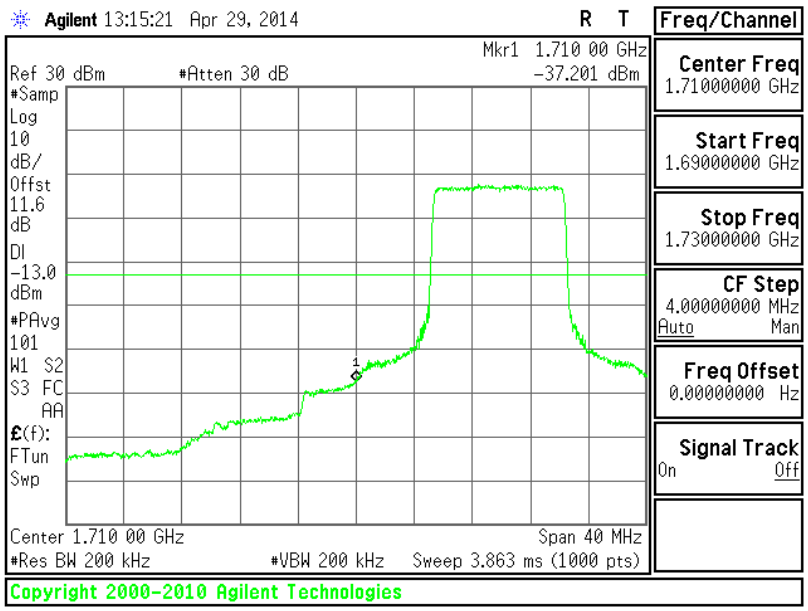
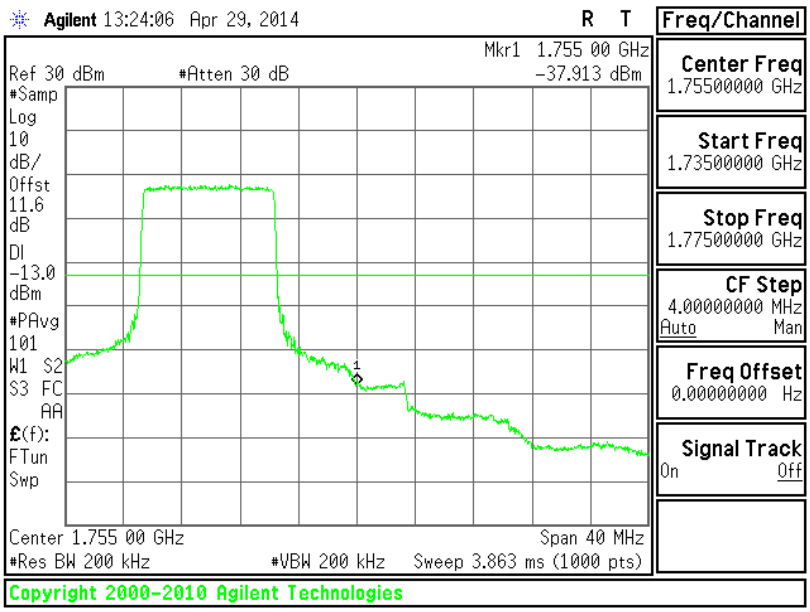
LOW CH, RB50-24



HIGH CH, RB50-24



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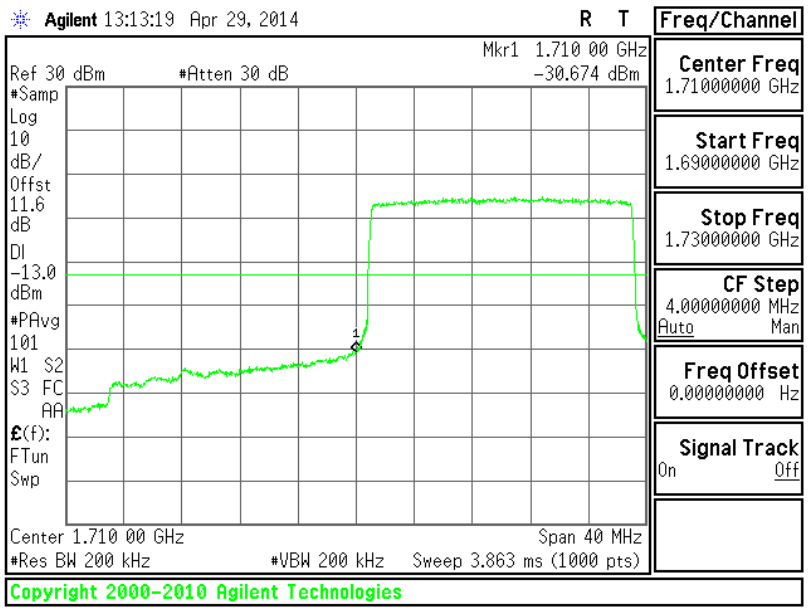
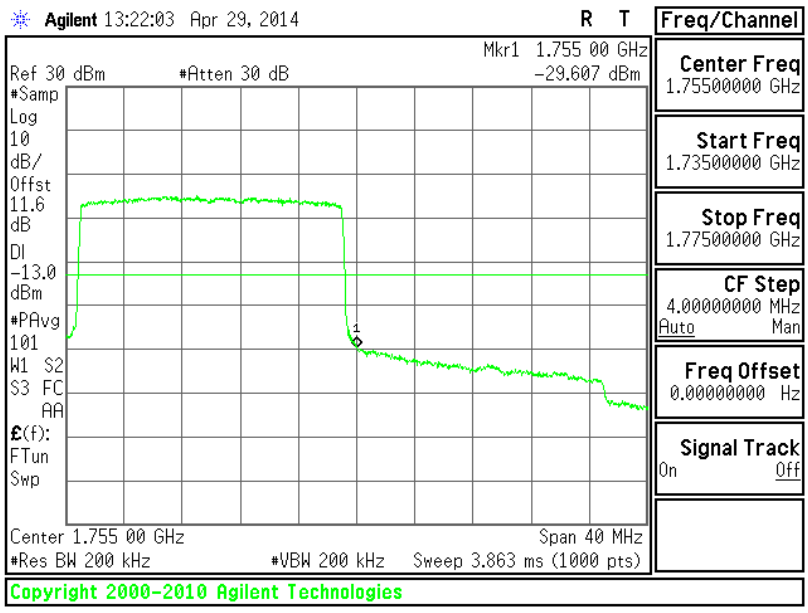
LOW CH, RB100-0



HIGH CH, RB100-0



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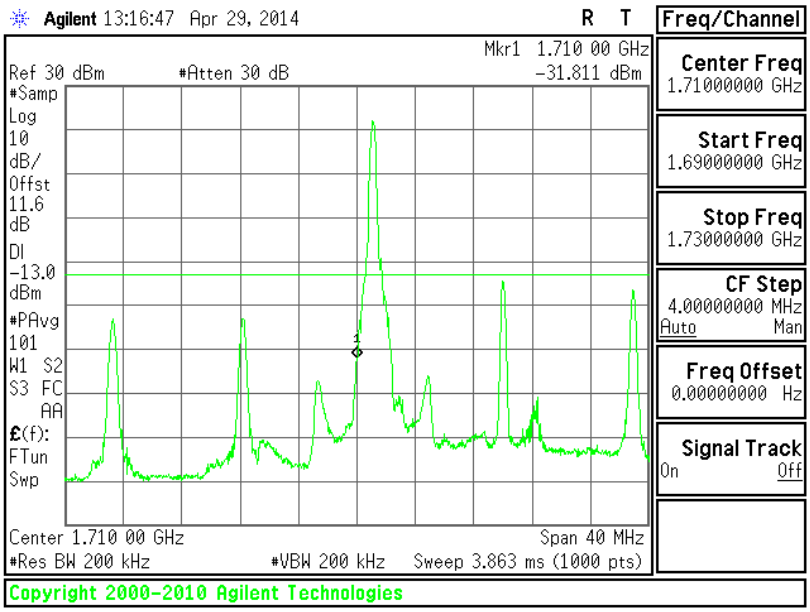
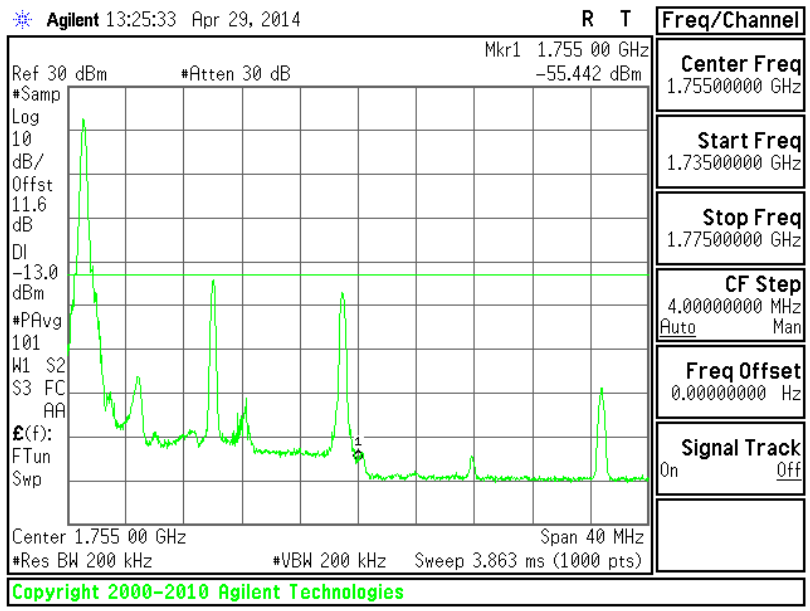
16QAM, (20.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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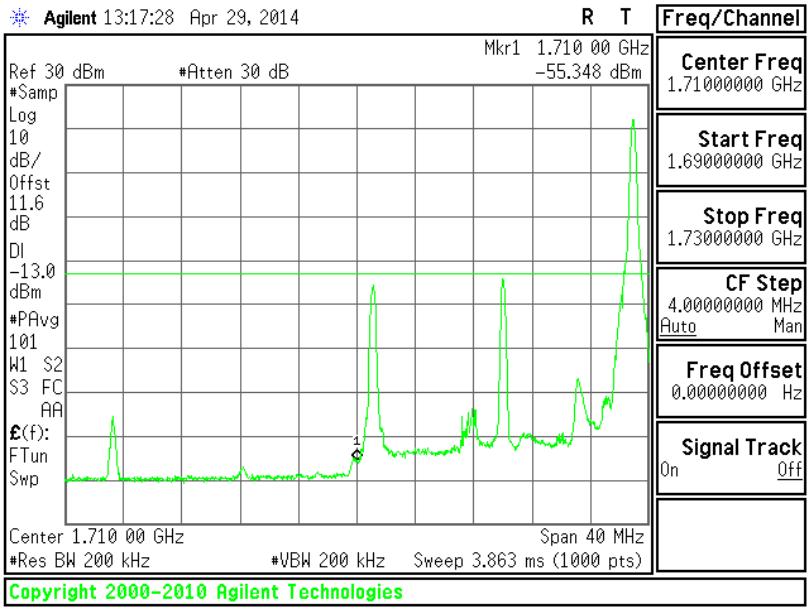
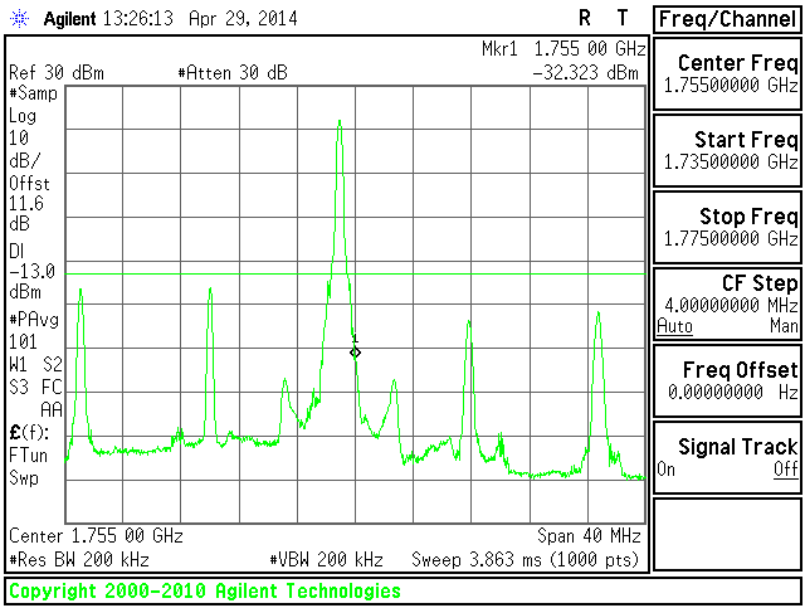
LOW CH, RB1-99



HIGH CH, RB1-99



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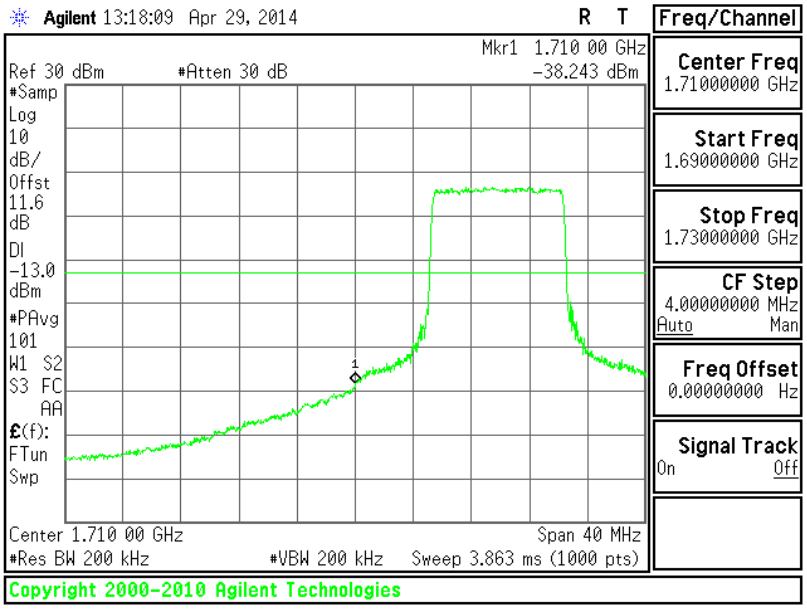
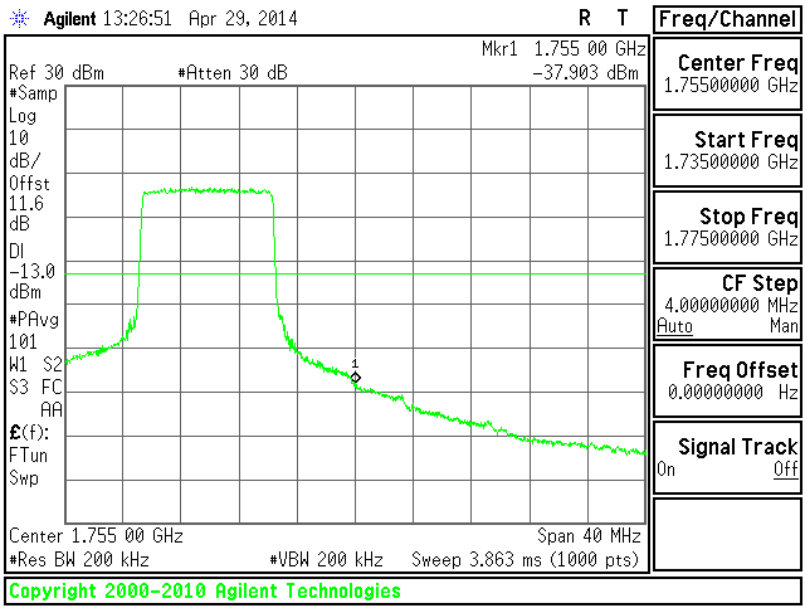
LOW CH, RB50-24



HIGH CH, RB50-24



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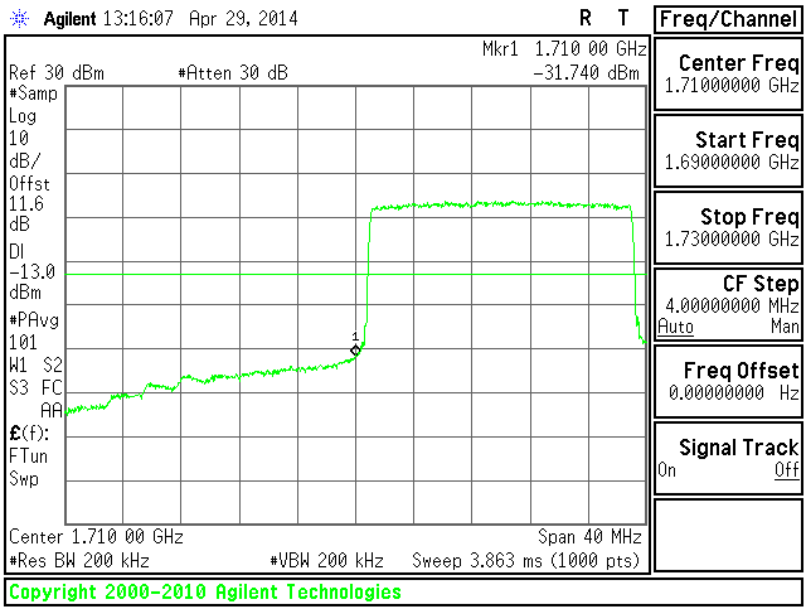
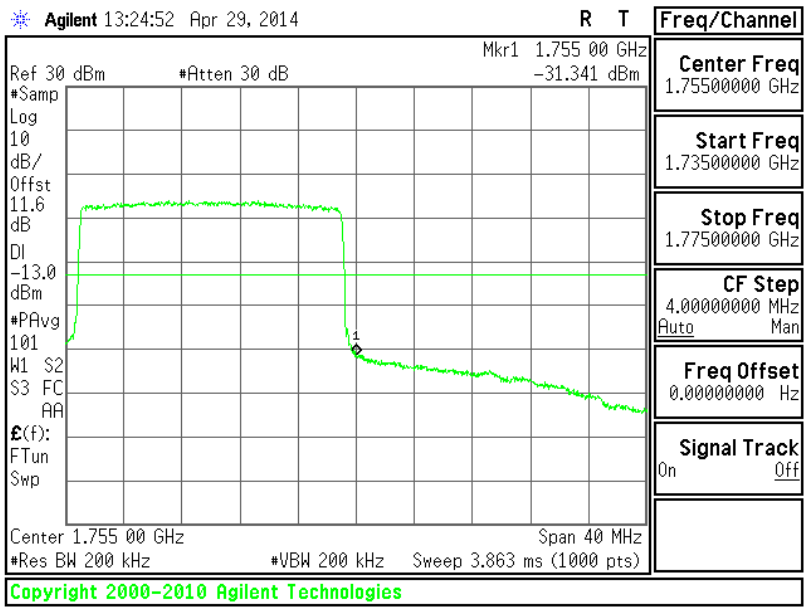
LOW CH, RB100-0



HIGH CH, RB100-0



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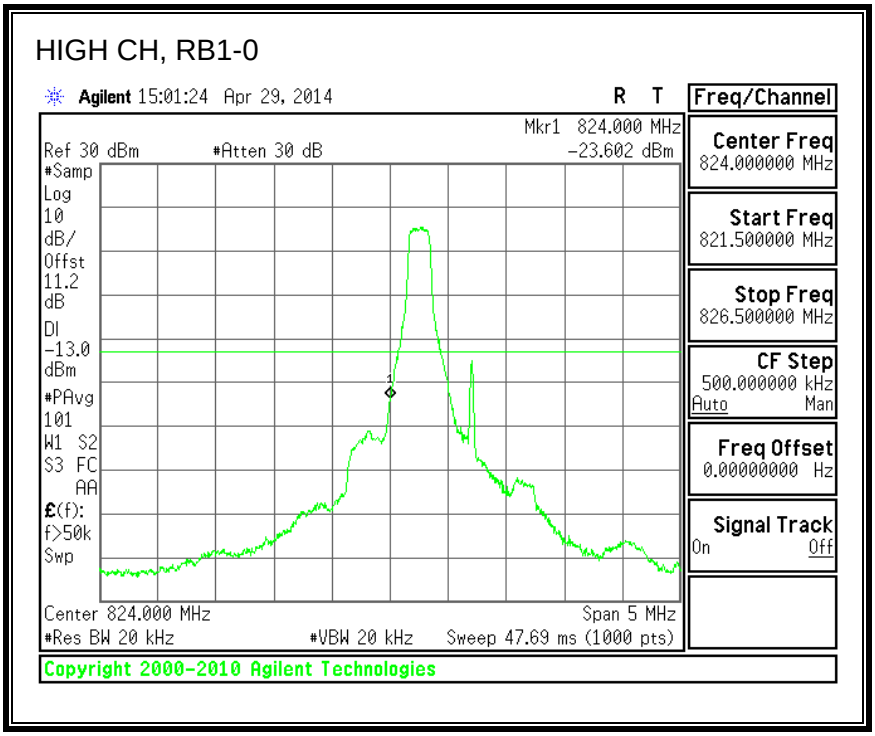
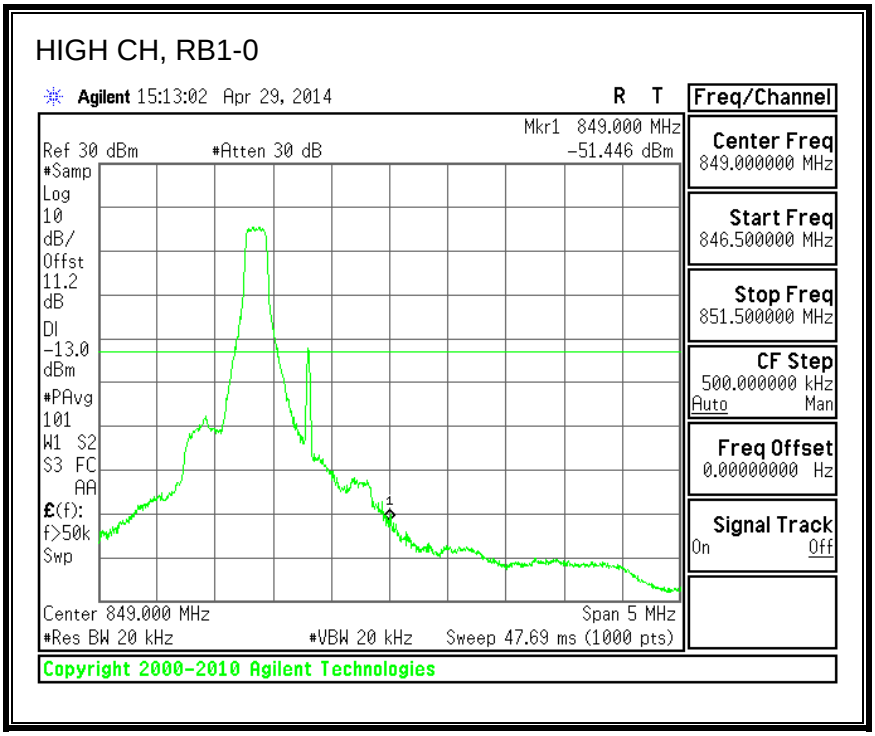
8.2.3. LTE BAND 5 BANDEDGE

QPSK, (1.4 MHz BAND WIDTH)





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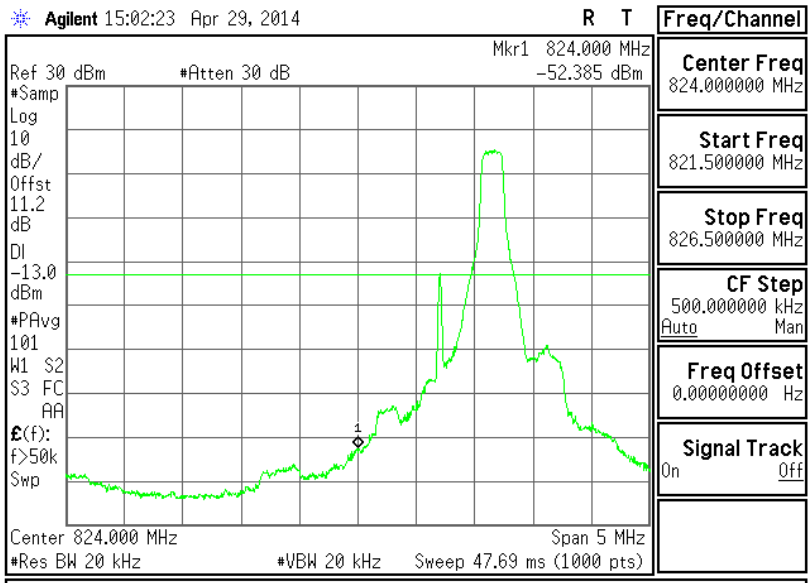
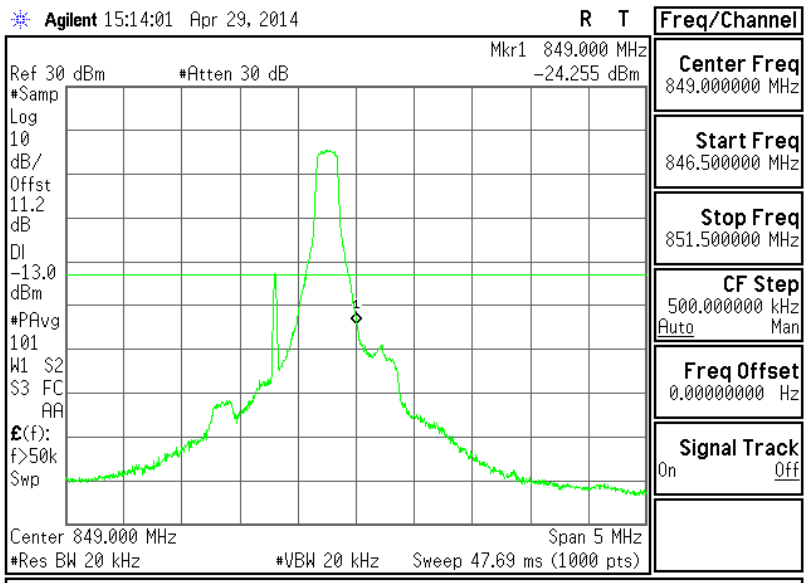
LOW CH, RB1-5



HIGH CH, RB1-5



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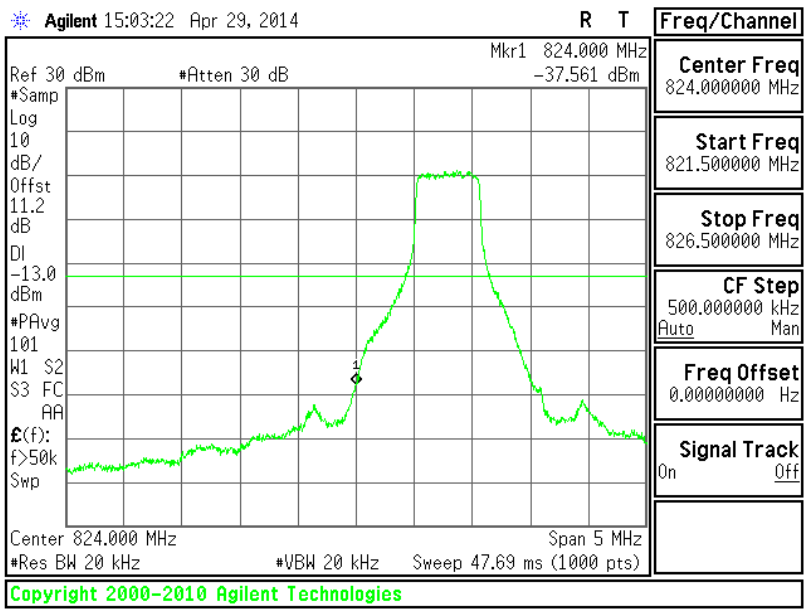
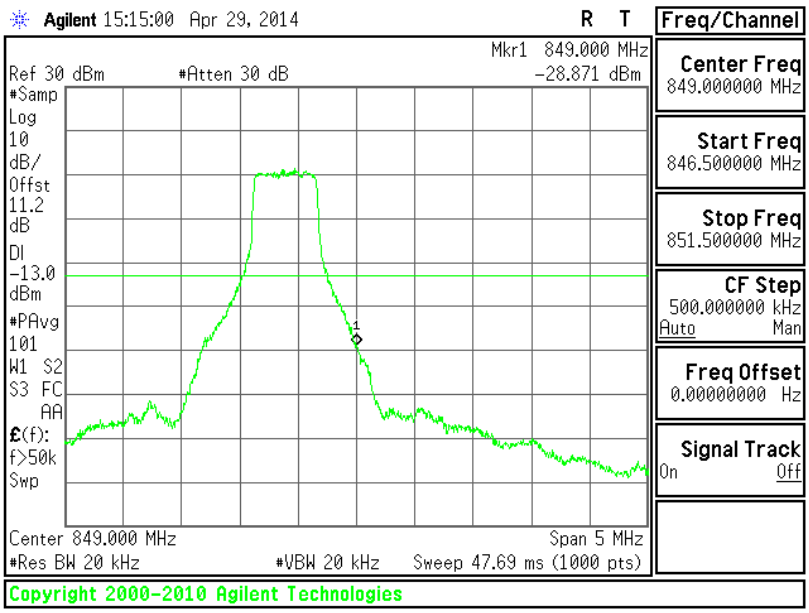
LOW CH, RB3-2



HIGH CH, RB3-2



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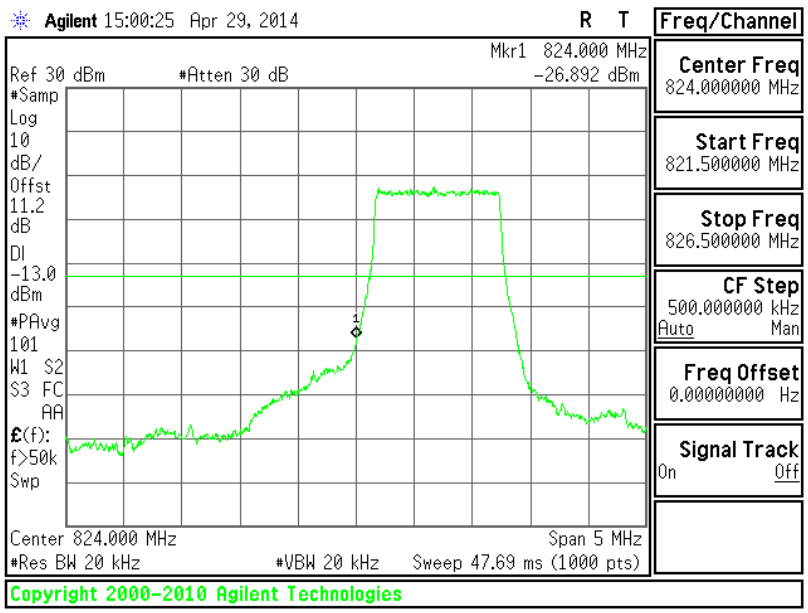
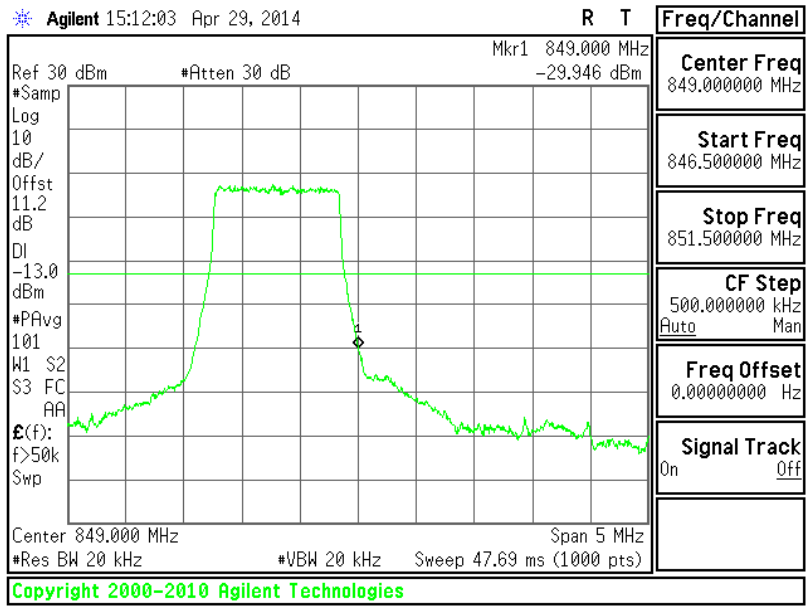
LOW CH, RB6-0



HIGH CH, RB6-0



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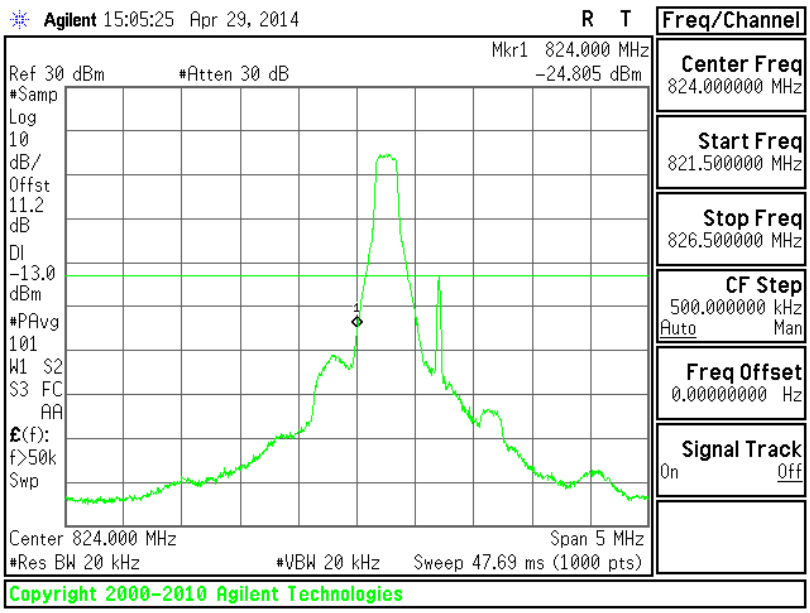
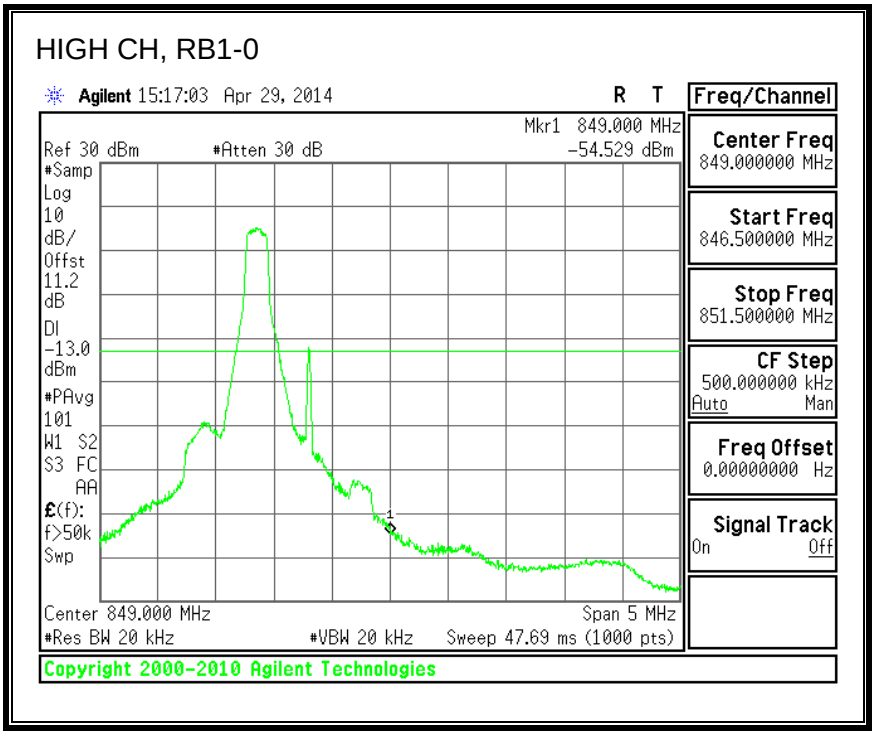
16QAM, (1.4 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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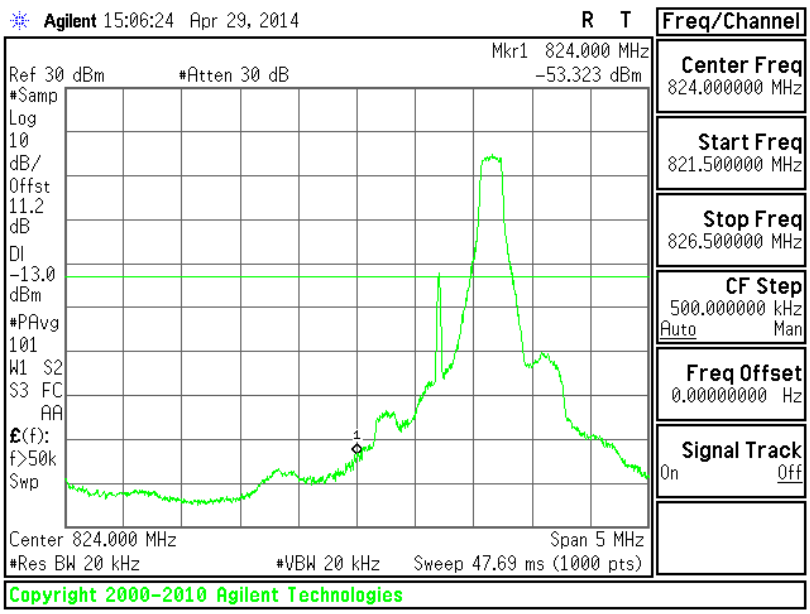
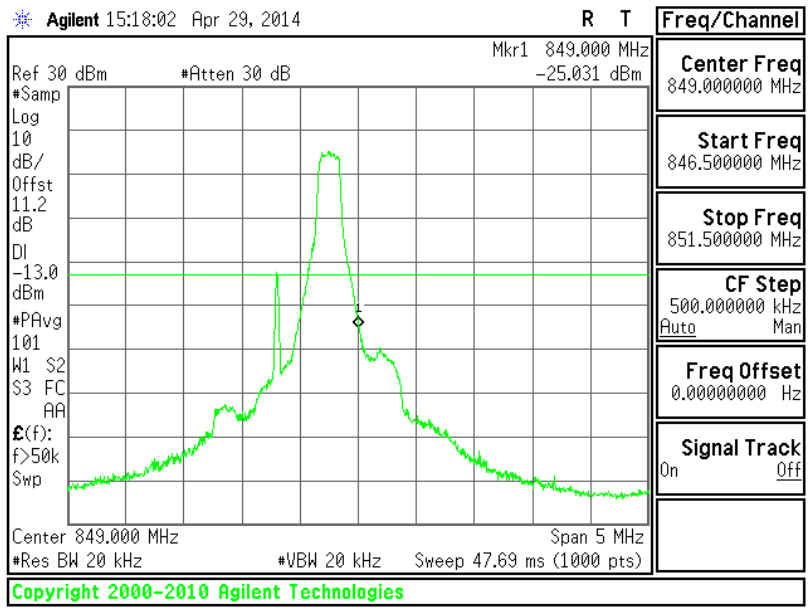
LOW CH, RB1-5



HIGH CH, RB1-5



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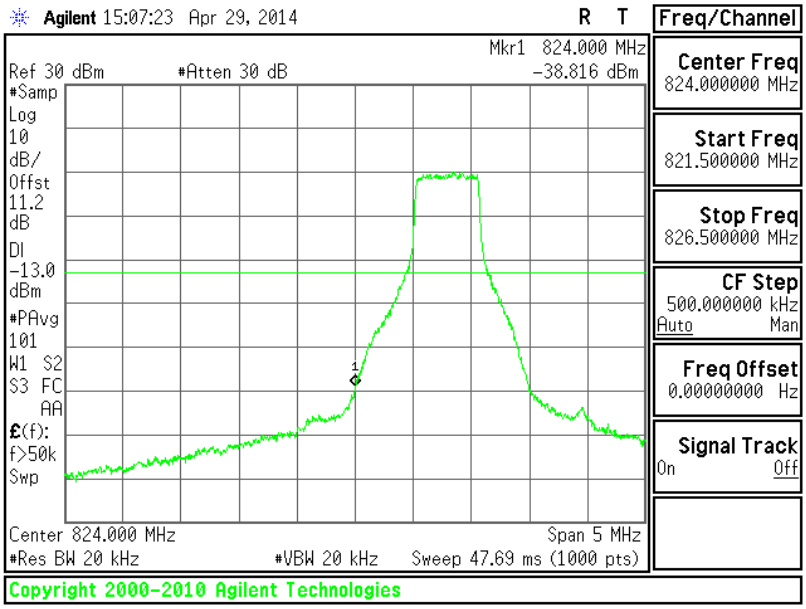
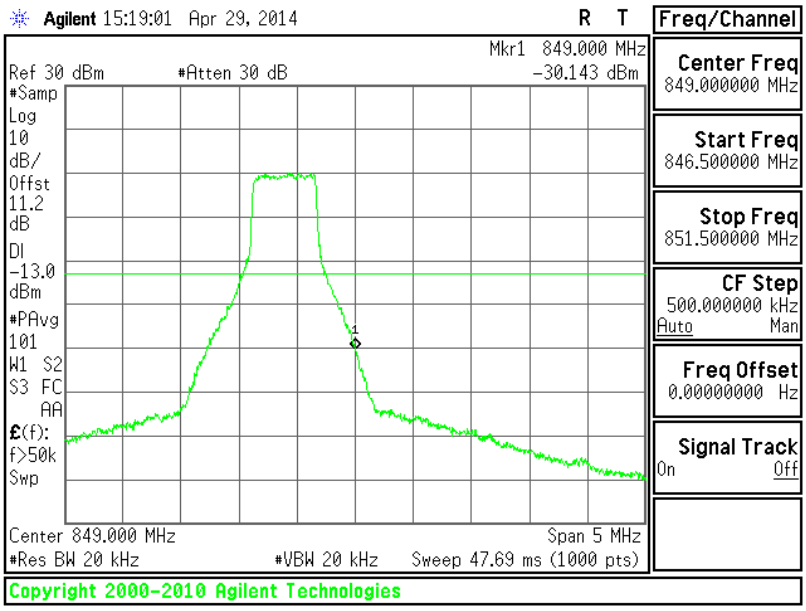
LOW CH, RB3-2



HIGH CH, RB3-2



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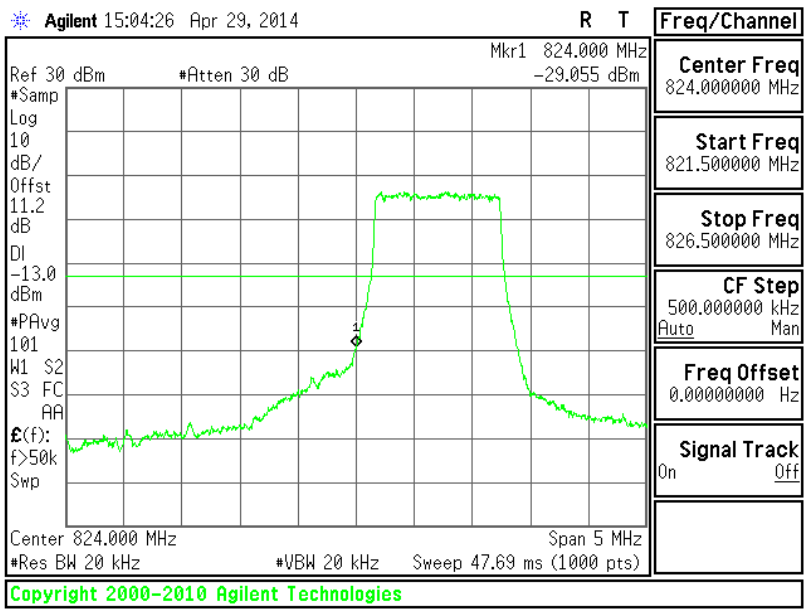
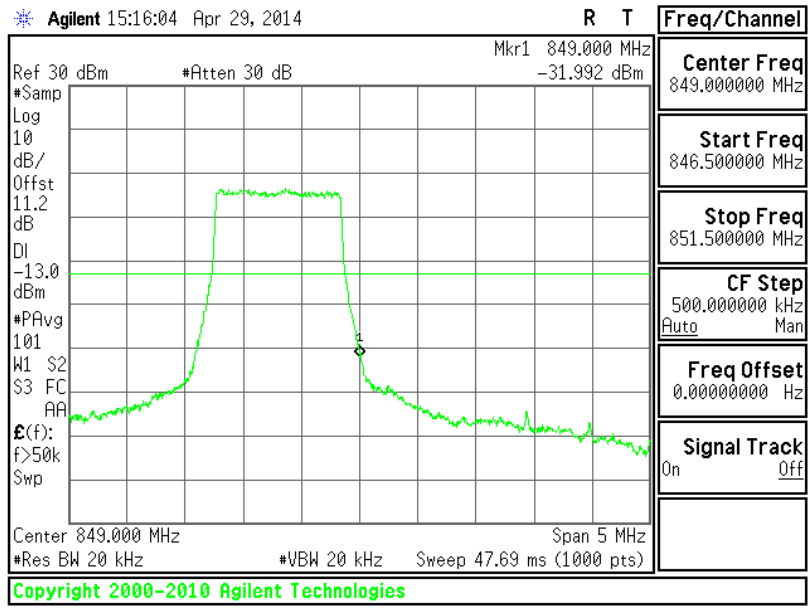
LOW CH, RB6-0



HIGH CH, RB6-0



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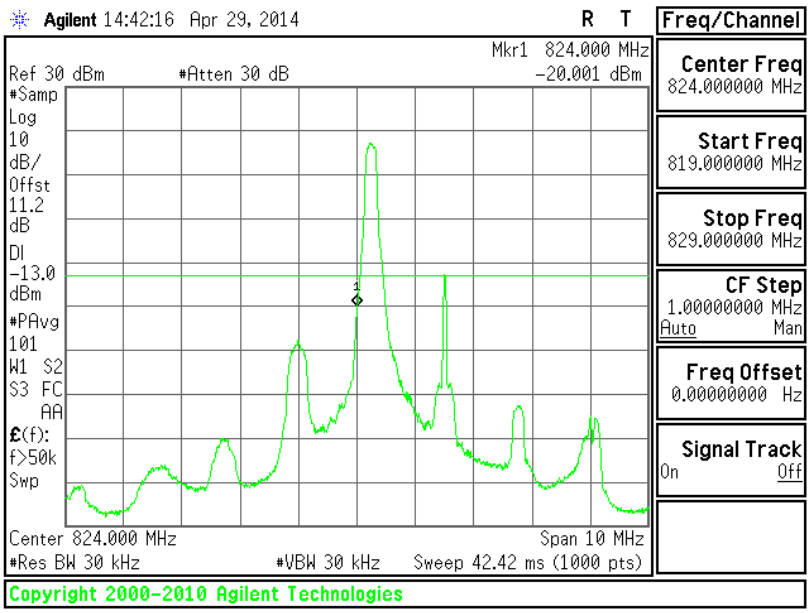
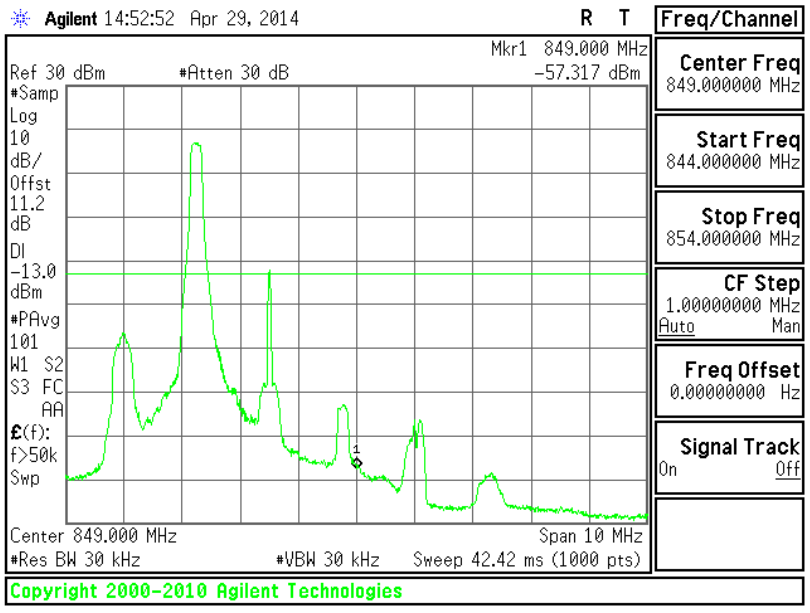
QPSK, (3.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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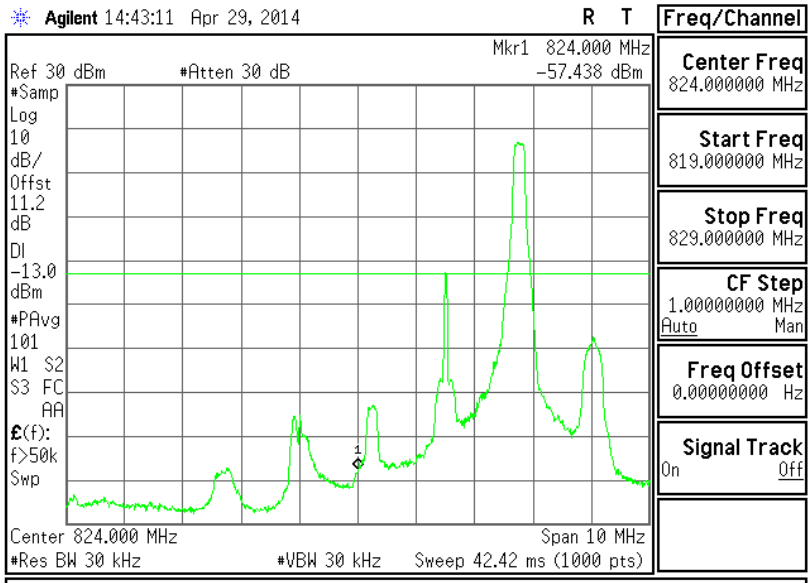
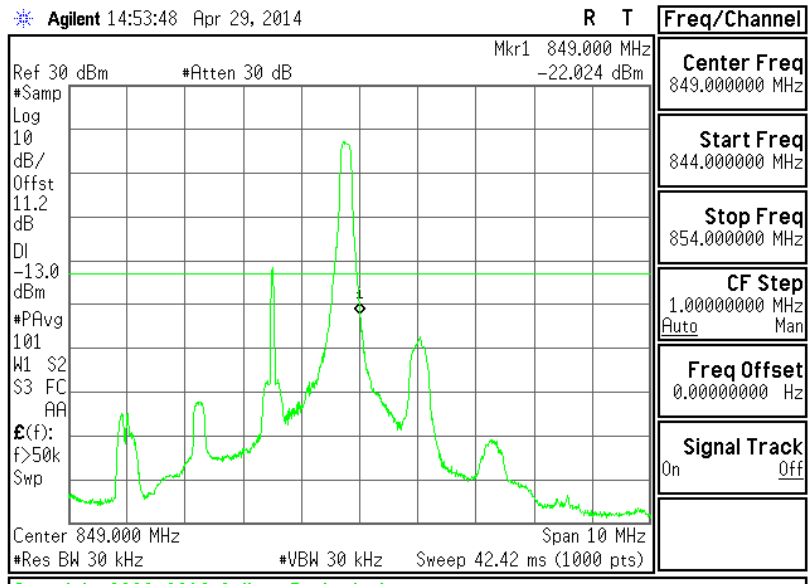
LOW CH, RB1-14



HIGH CH, RB1-14



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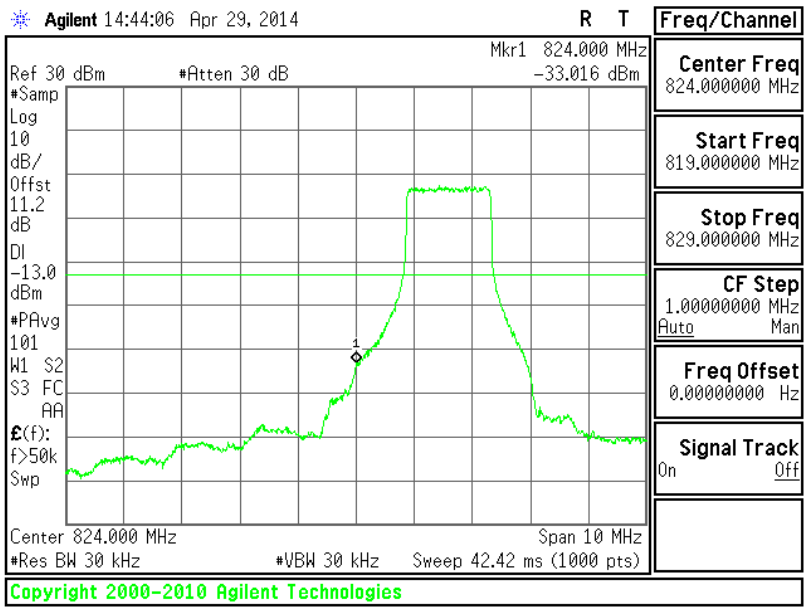
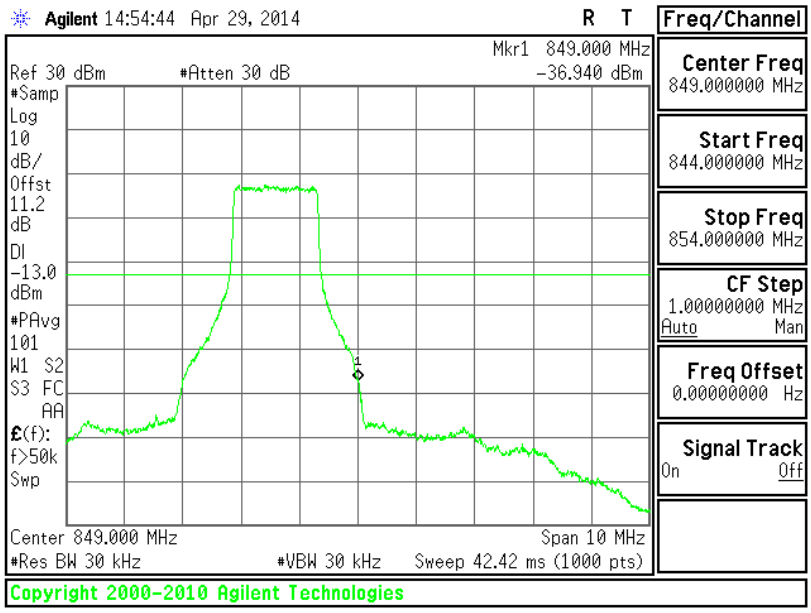
LOW CH, RB8-4



HIGH CH, RB8-4



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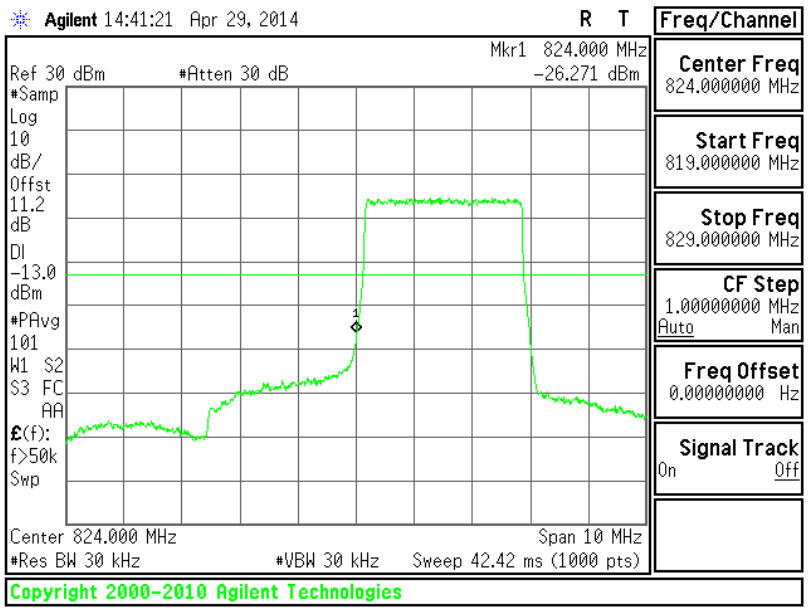
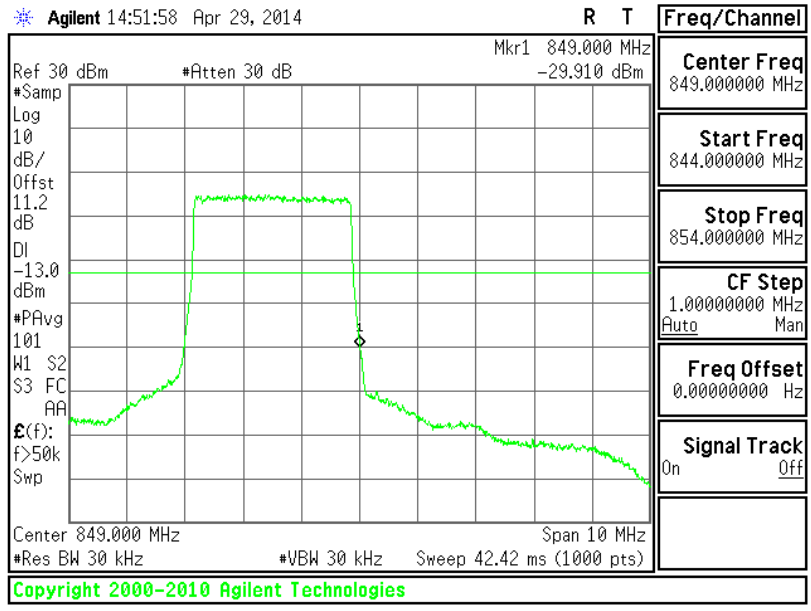
LOW CH, RB15-0



HIGH CH, RB15-0



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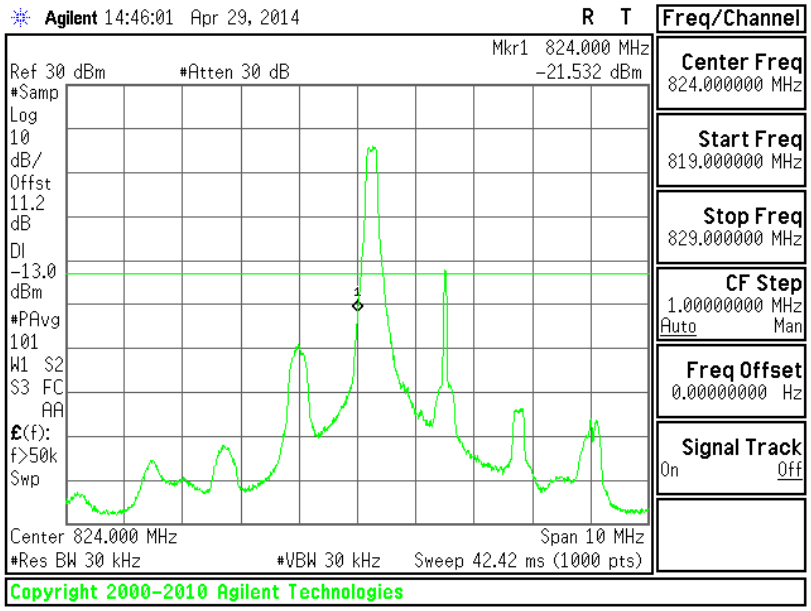
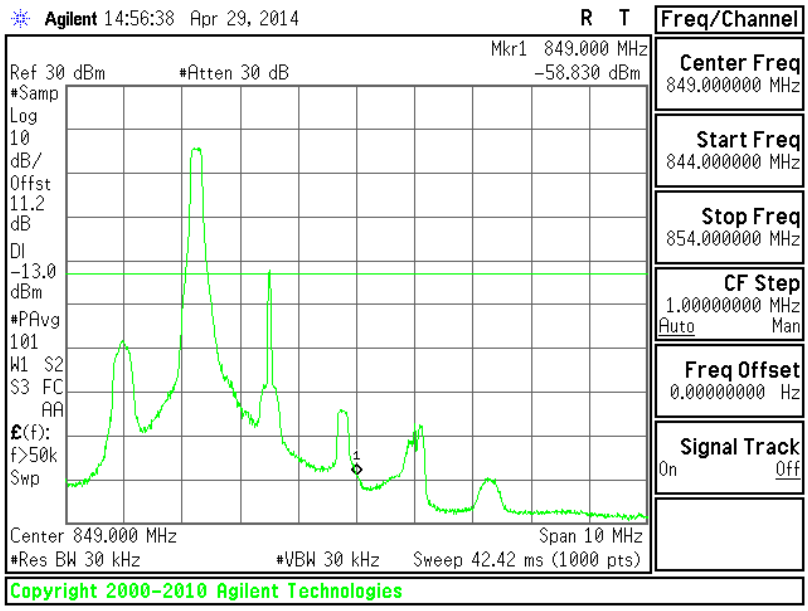
16QAM, (3.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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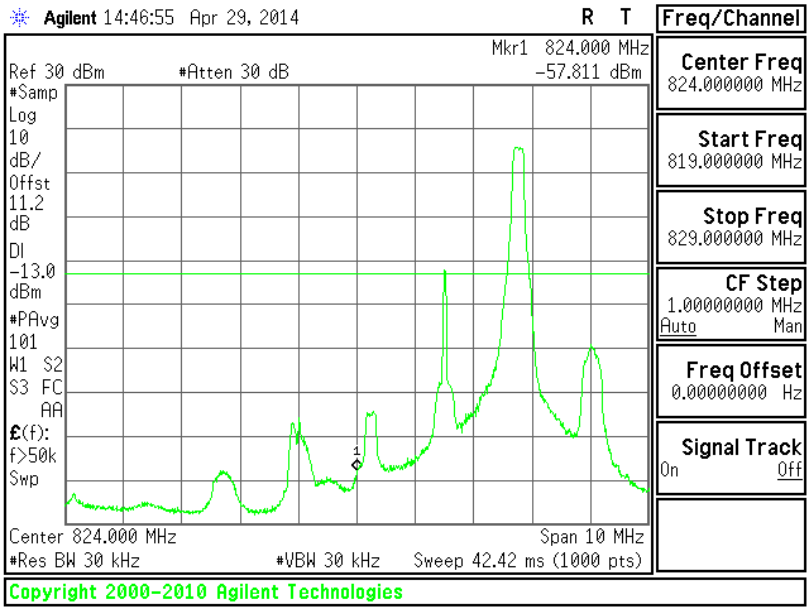
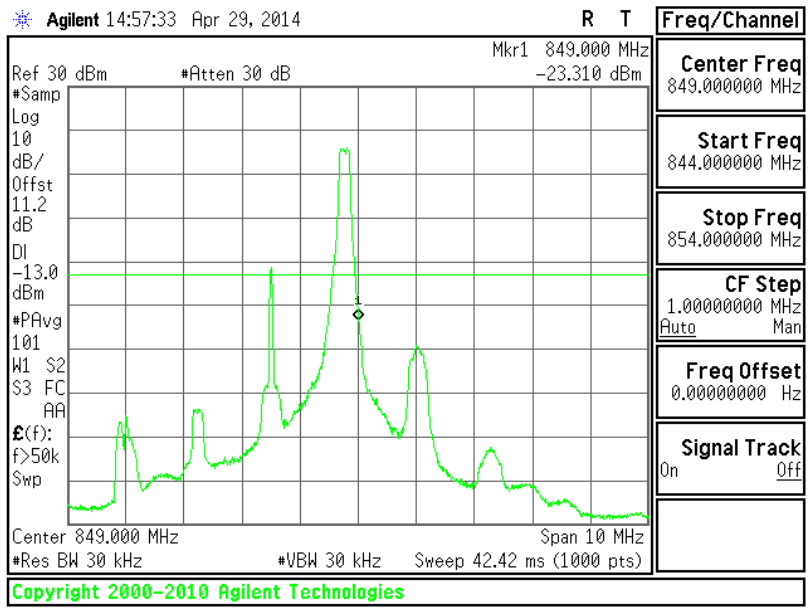
LOW CH, RB1-14



HIGH CH, RB1-14



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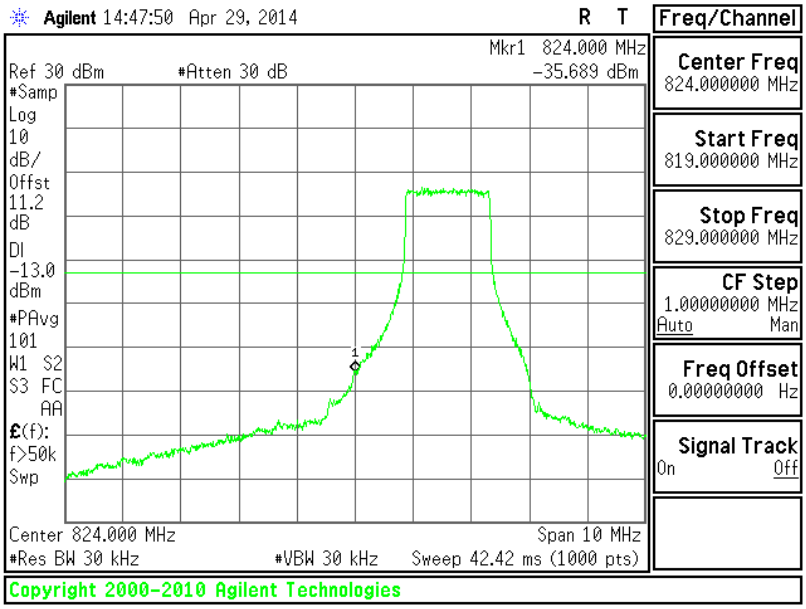
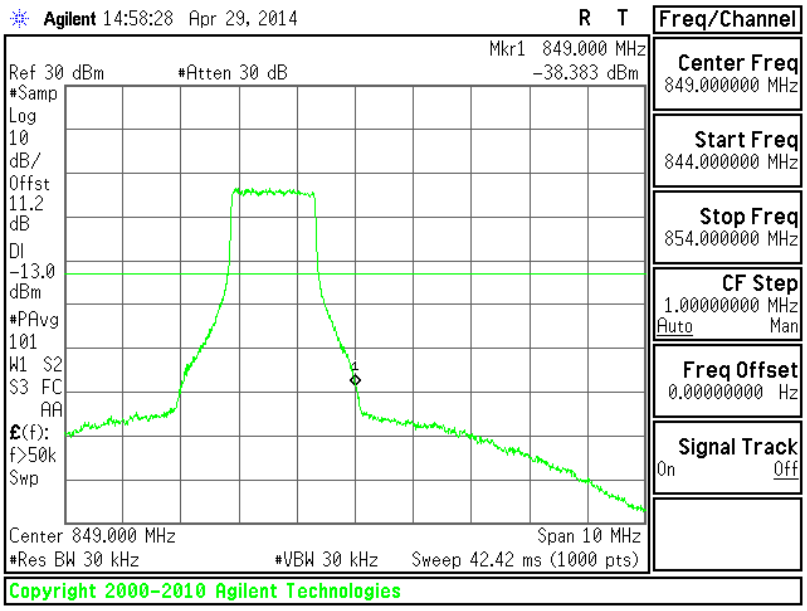
LOW CH, RB8-4



HIGH CH, RB8-4



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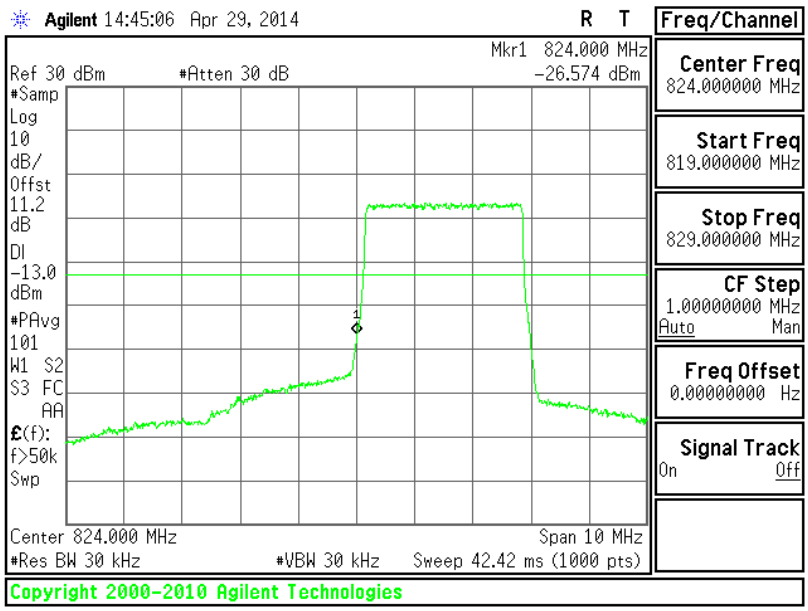
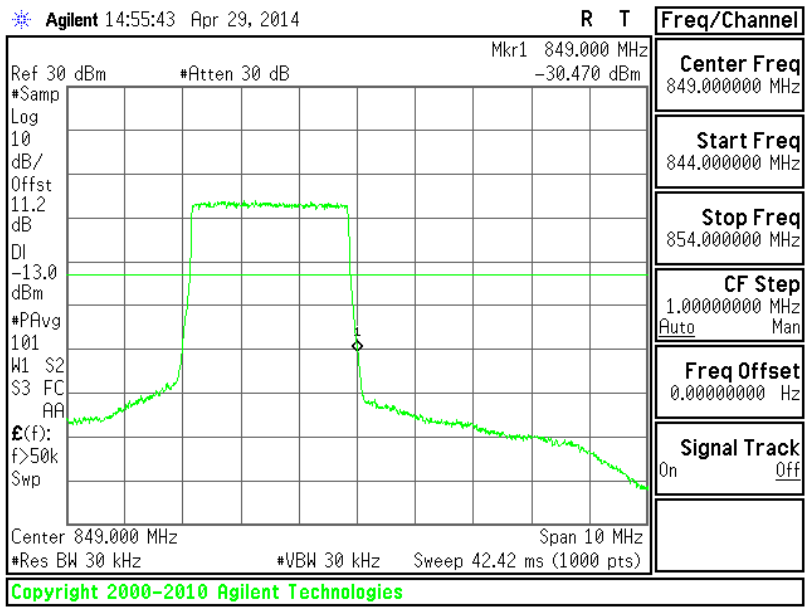
LOW CH, RB15-0



HIGH CH, RB15-0



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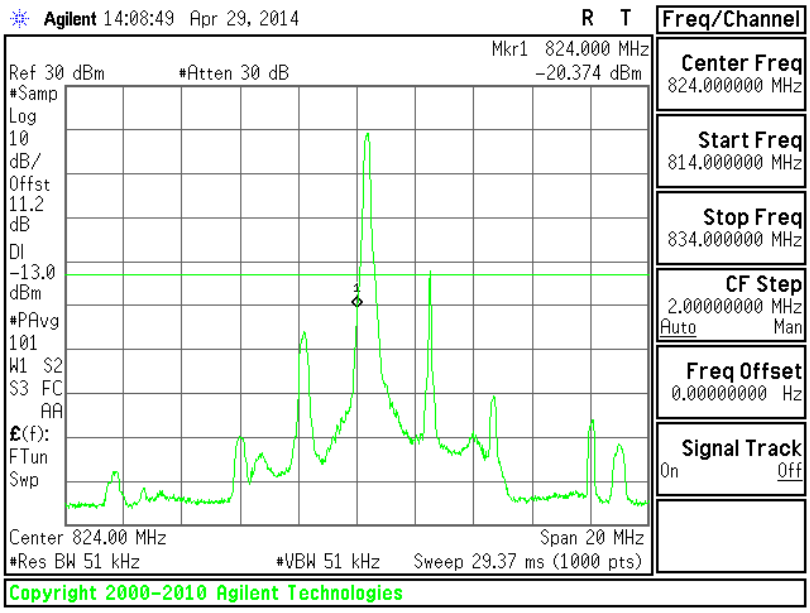
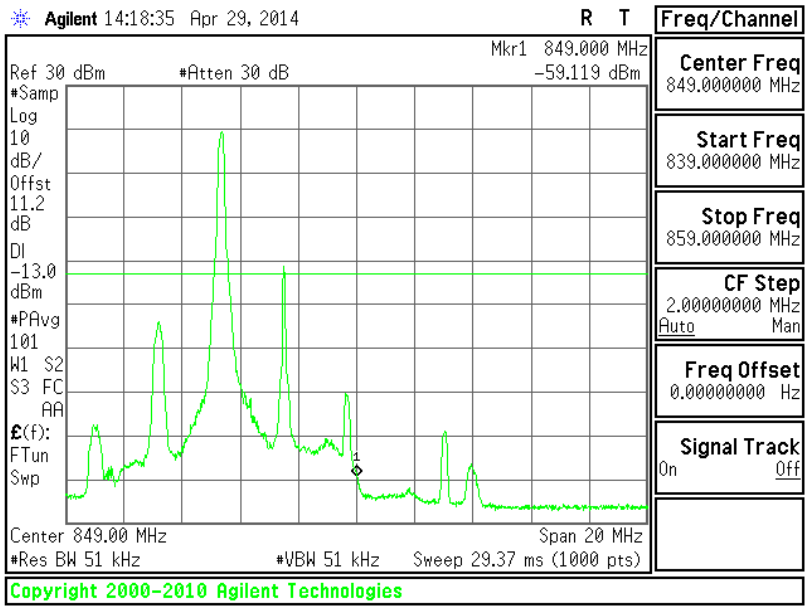
QPSK, (5.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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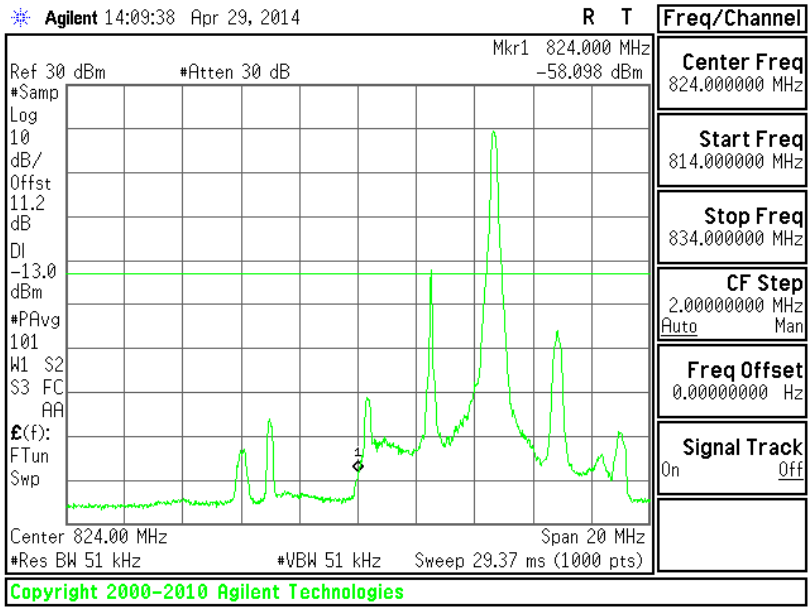
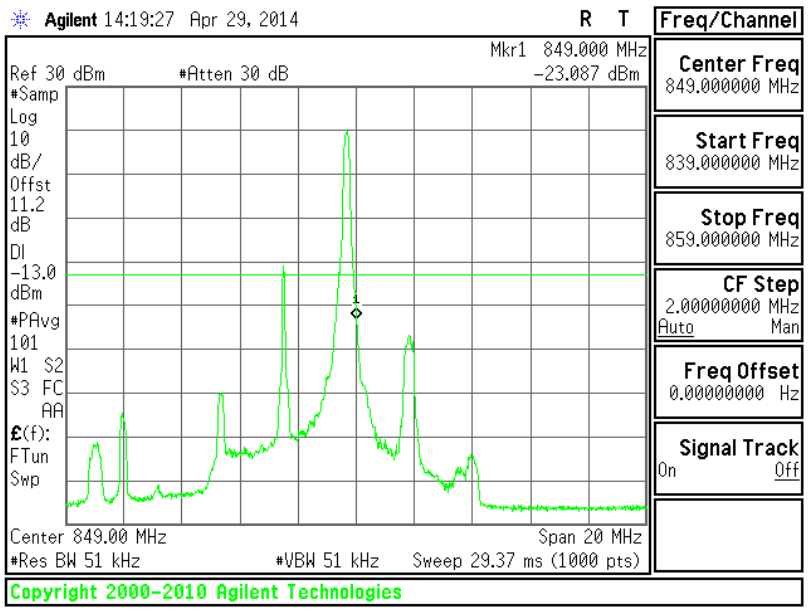
LOW CH, RB1-24



HIGH CH, RB1-24



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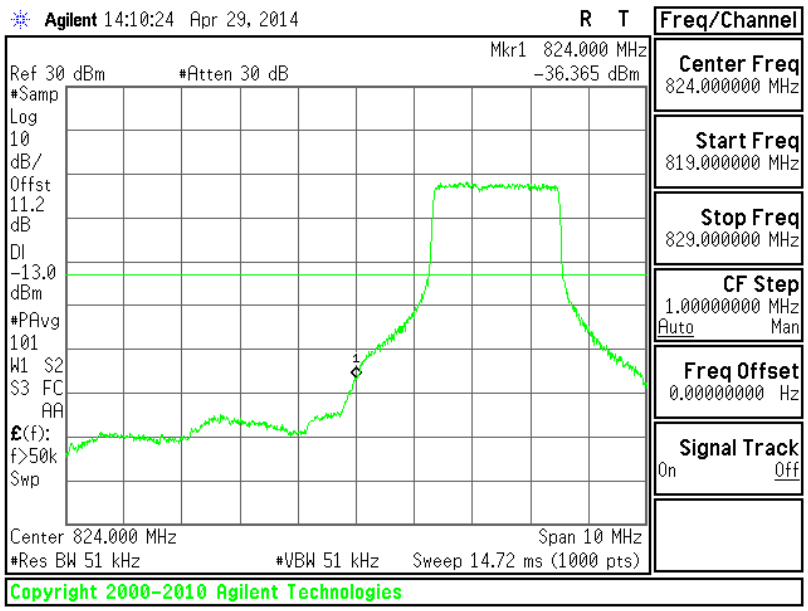
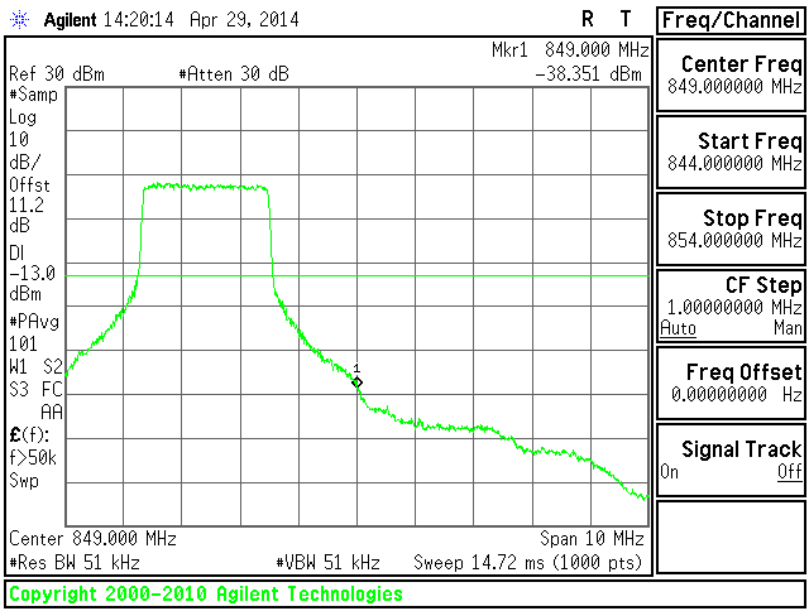
LOW CH, RB12-6



HIGH CH, RB12-6



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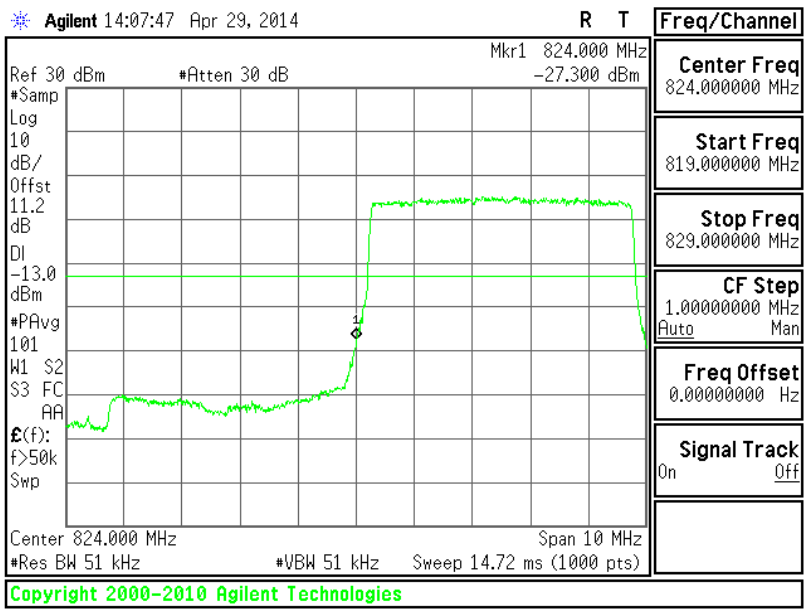
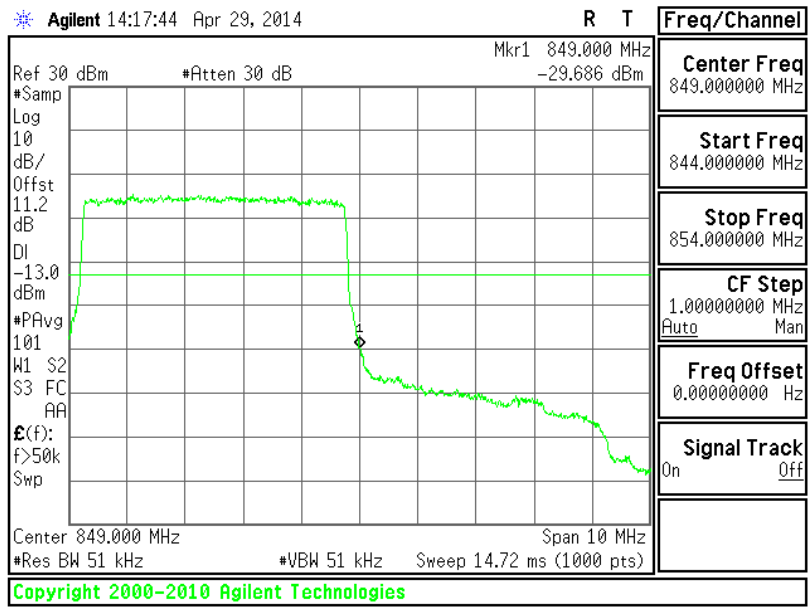
LOW CH, RB25-0



HIGH CH, RB25-0



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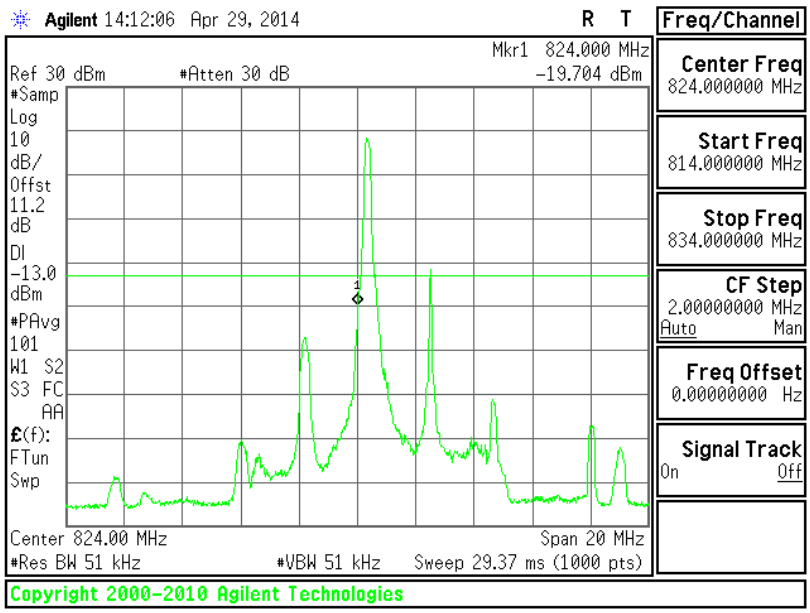
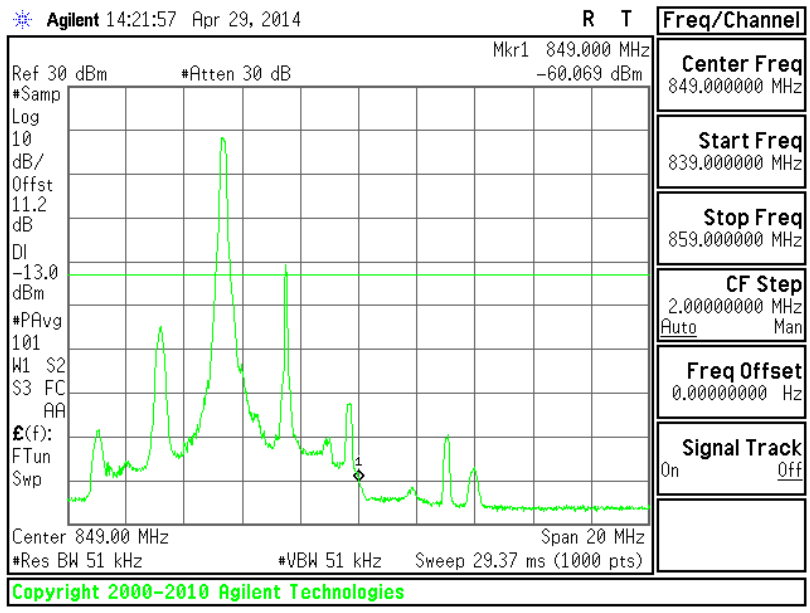
16QAM, (5.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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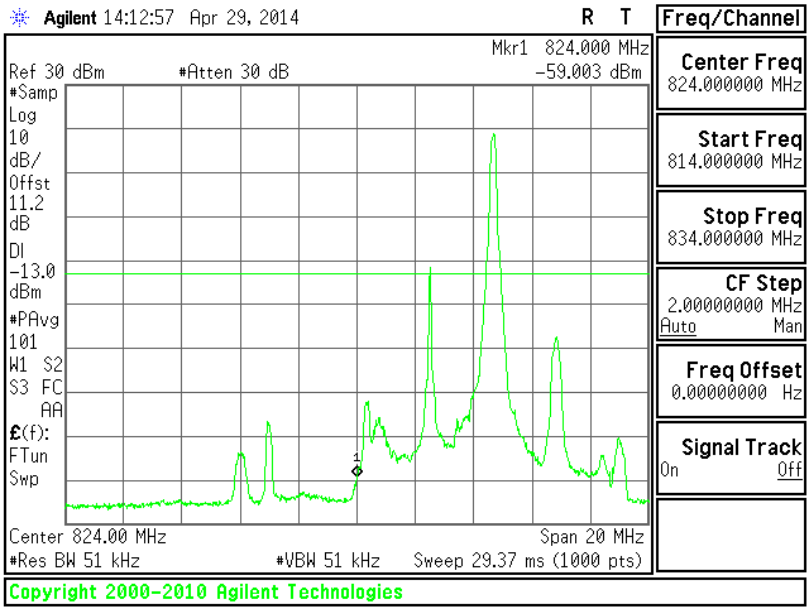
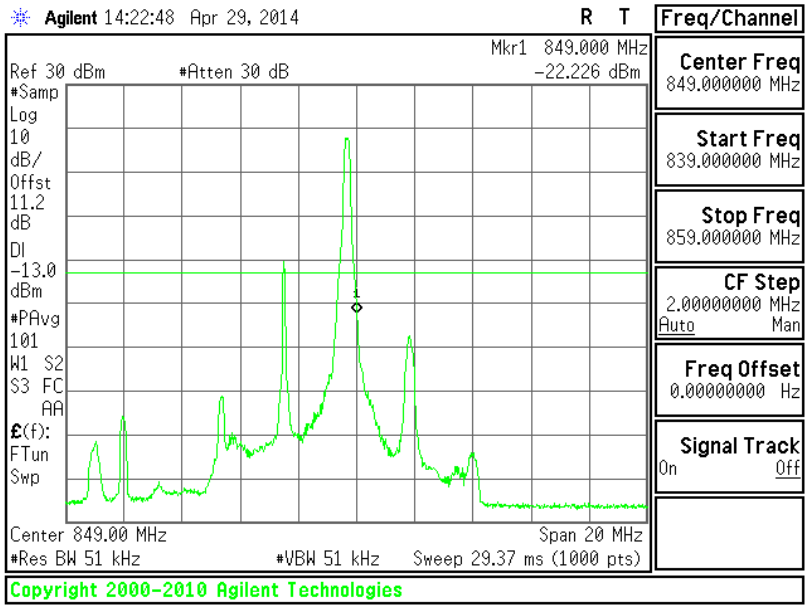
LOW CH, RB1-24



HIGH CH, RB1-24



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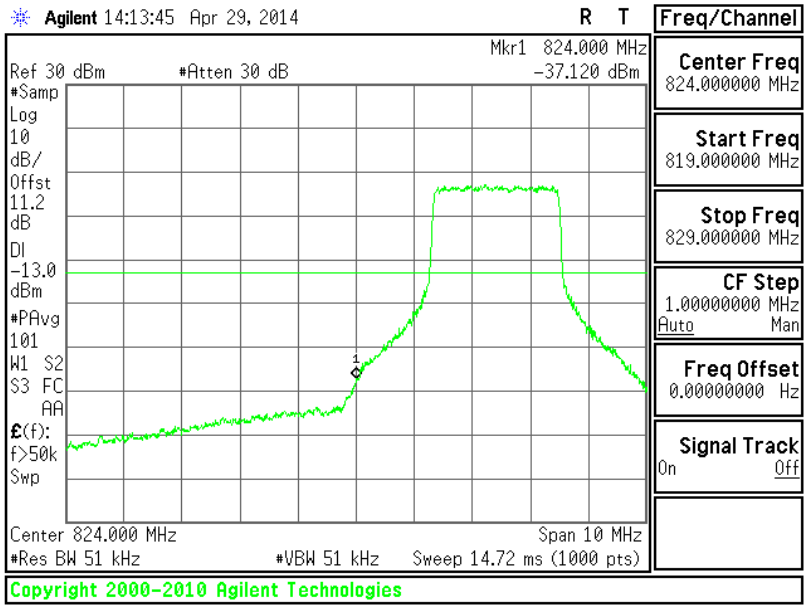
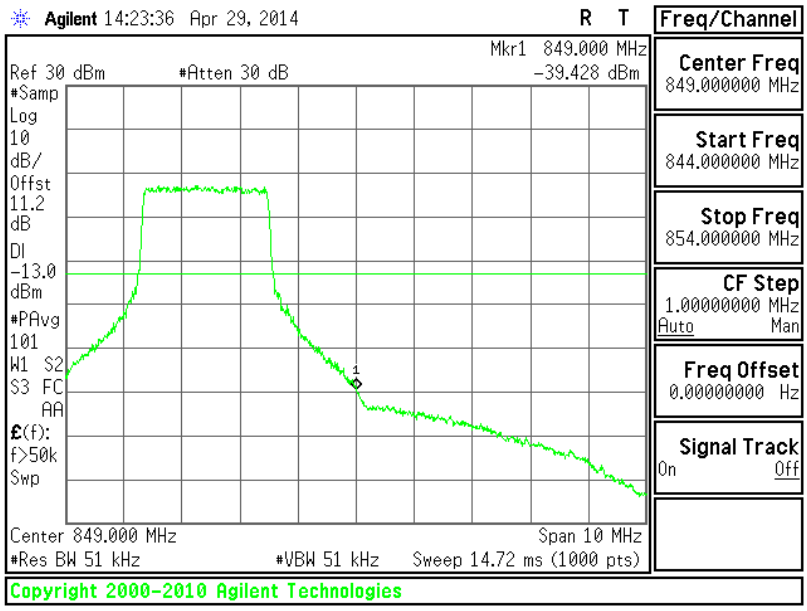
LOW CH, RB12-6



HIGH CH, RB12-6



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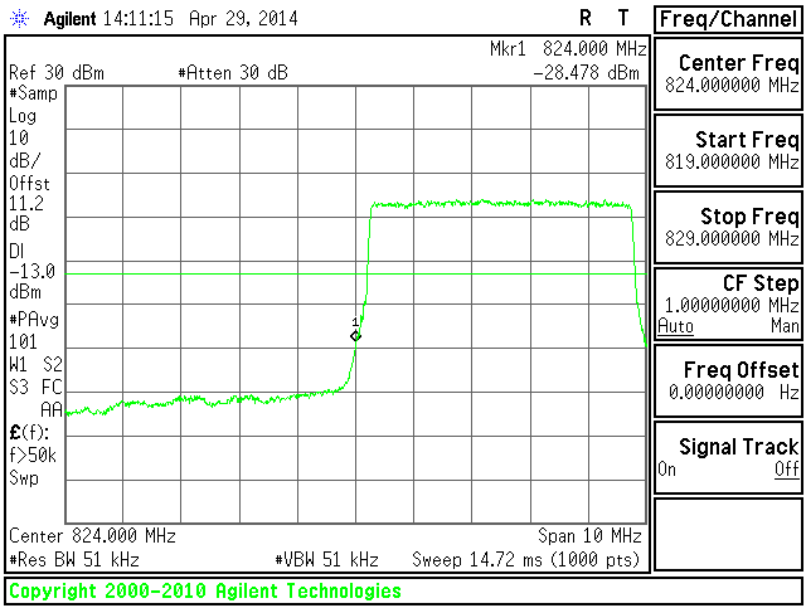
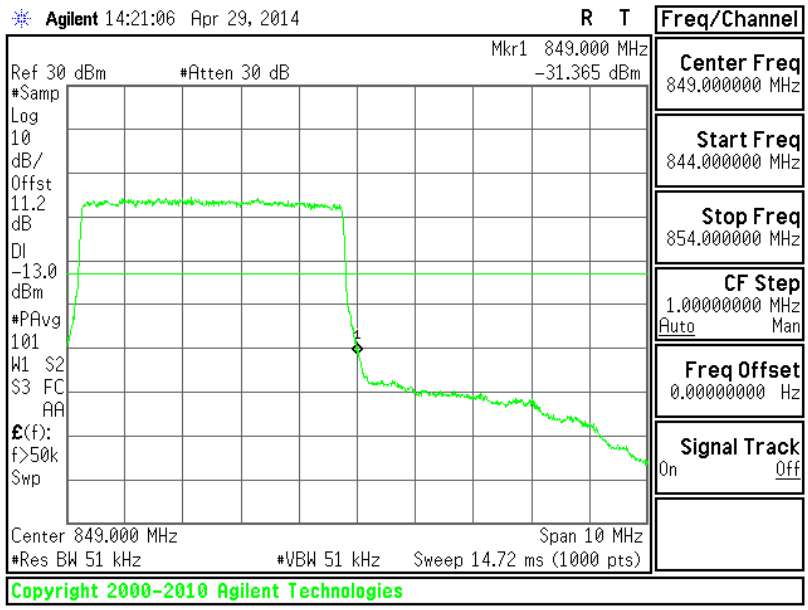
LOW CH, RB25-0



HIGH CH, RB25-0



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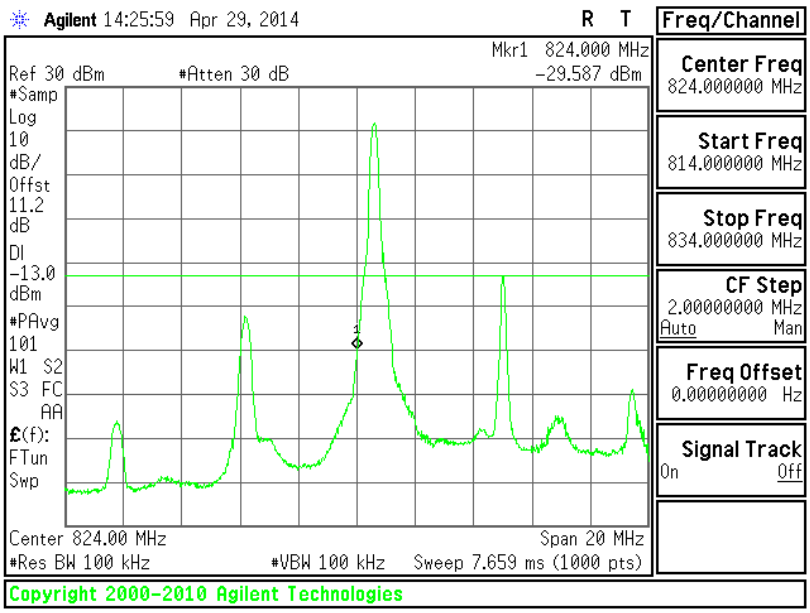
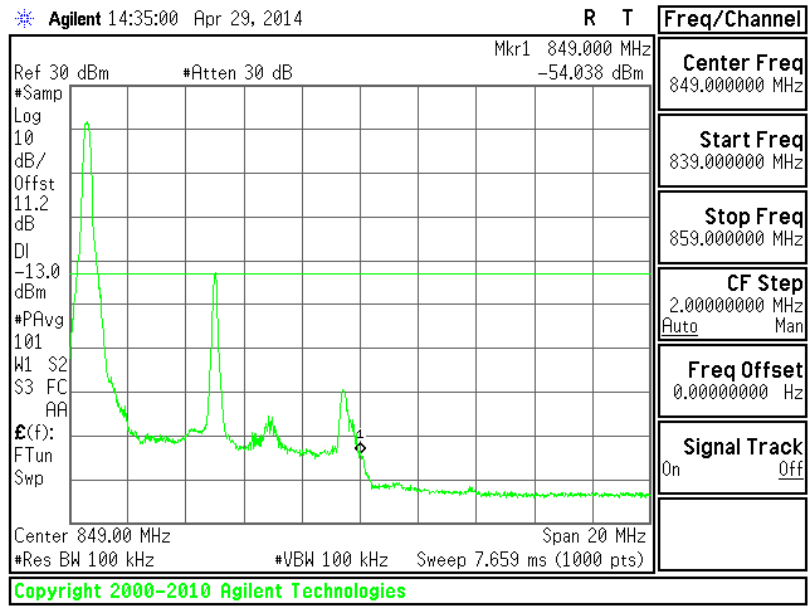
QPSK, (10.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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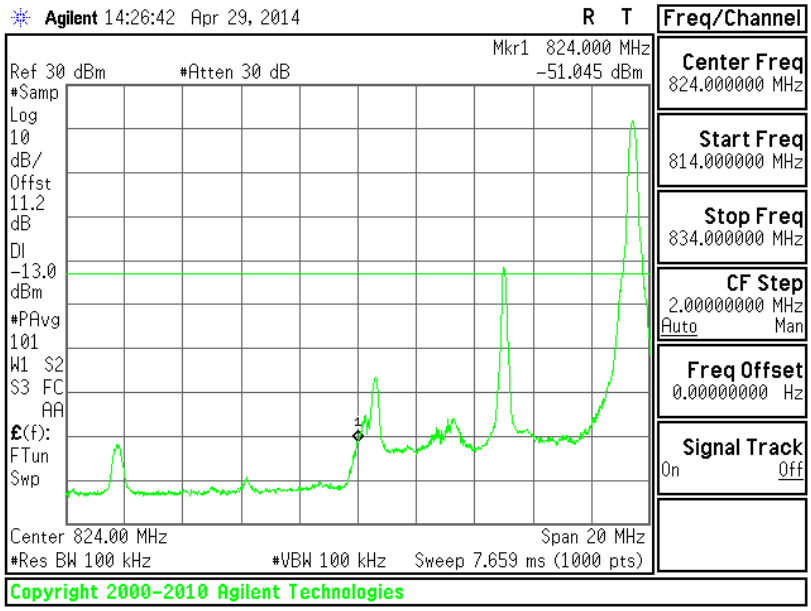
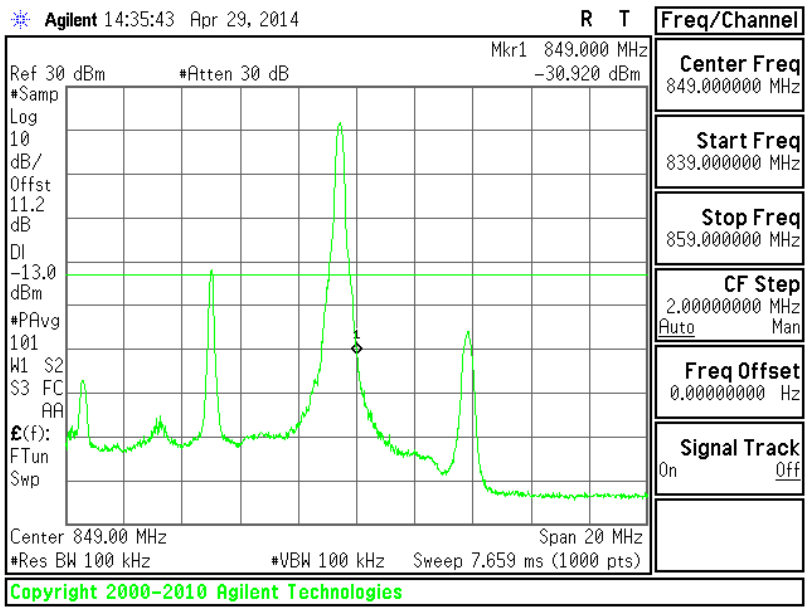
LOW CH, RB1-49



HIGH CH, RB1-49



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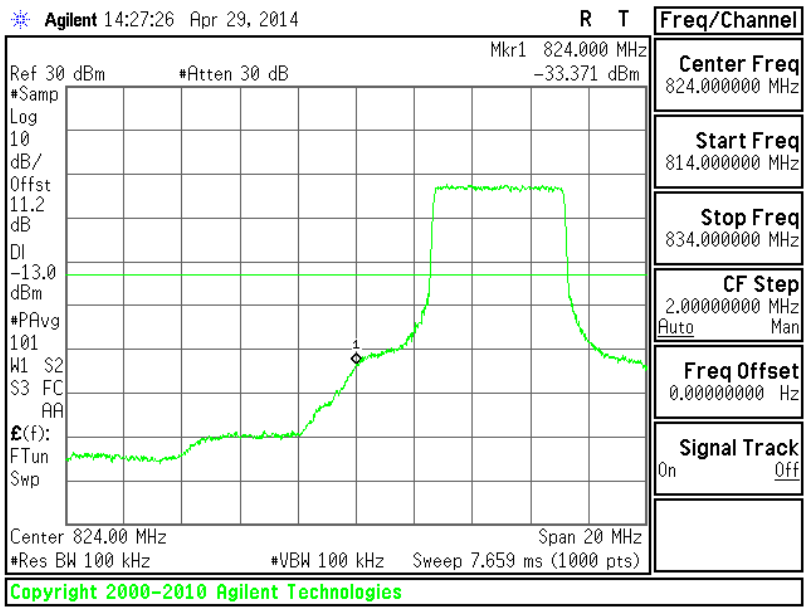
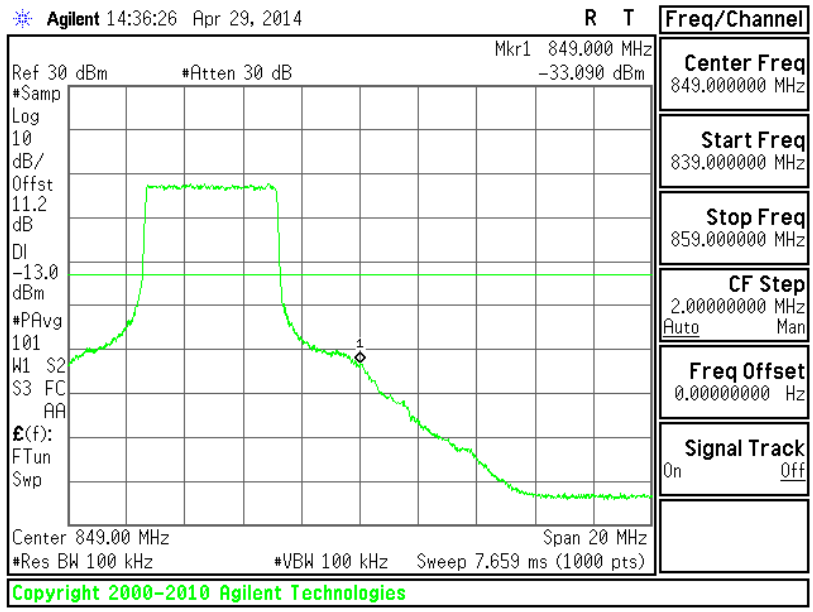
LOW CH, RB25-12



HIGH CH, RB25-12



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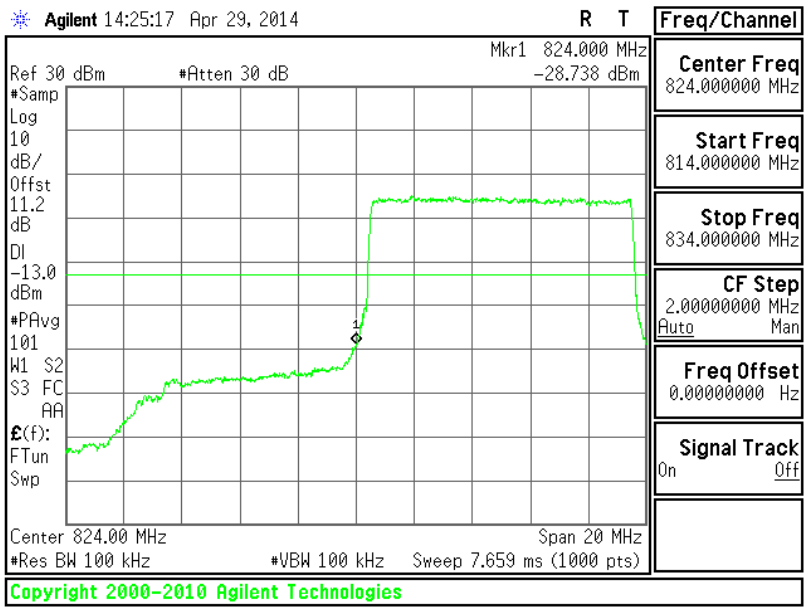
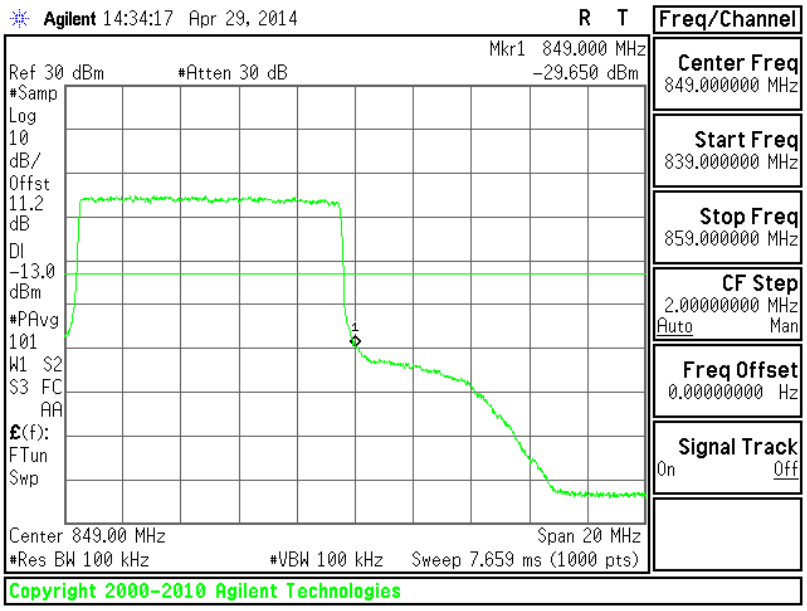
LOW CH, RB50-0



HIGH CH, RB50-0



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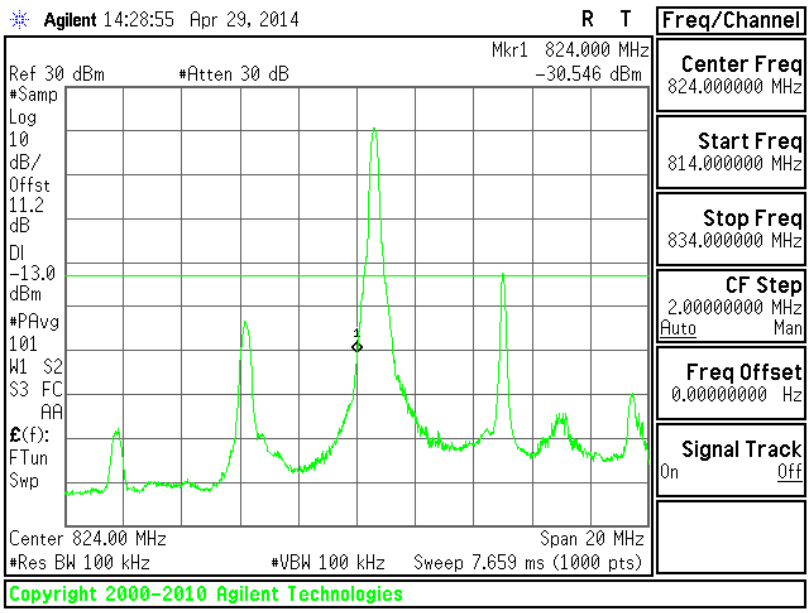
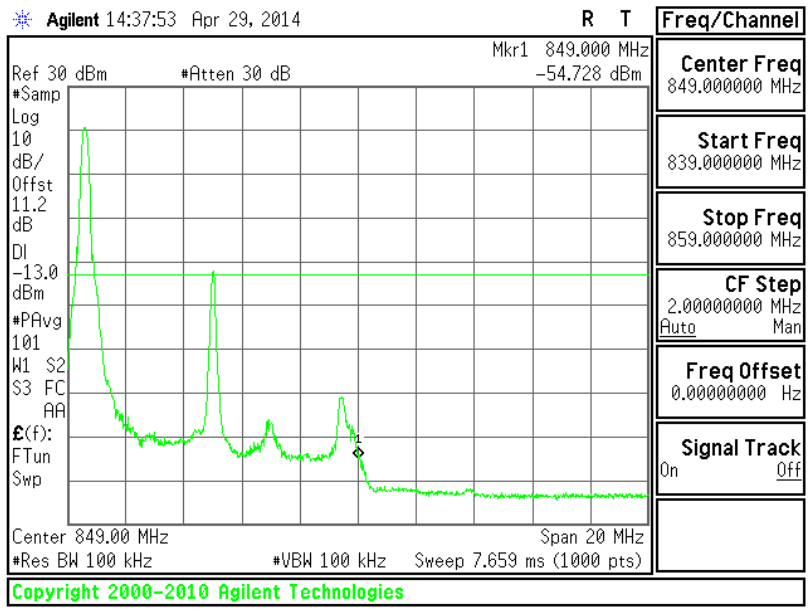
16QAM, (10.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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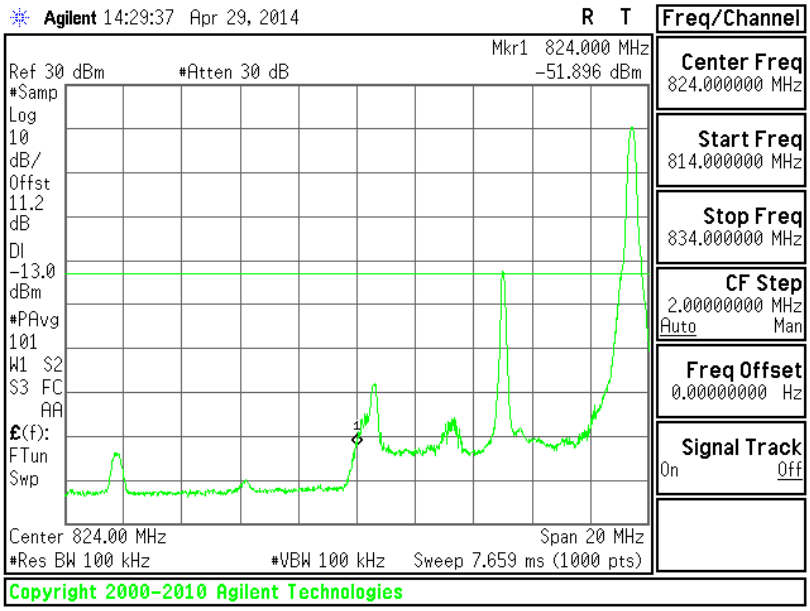
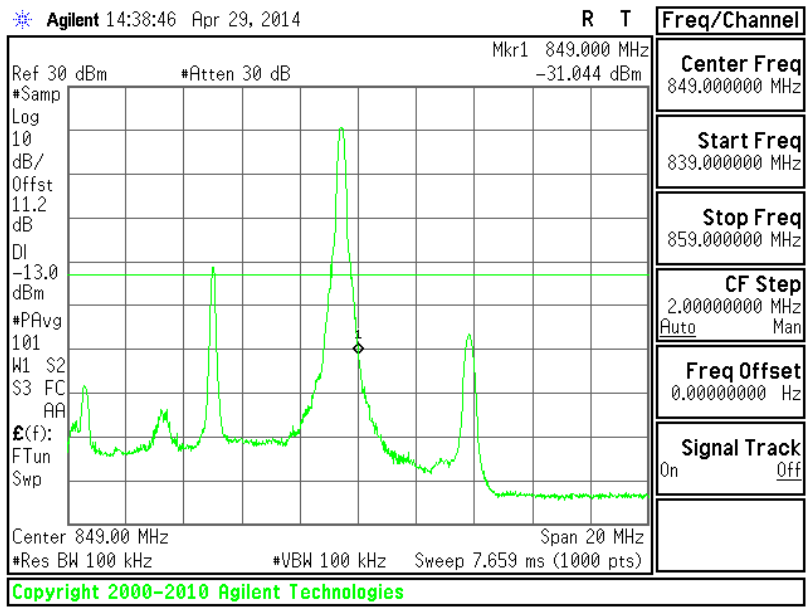
LOW CH, RB1-49



HIGH CH, RB1-49



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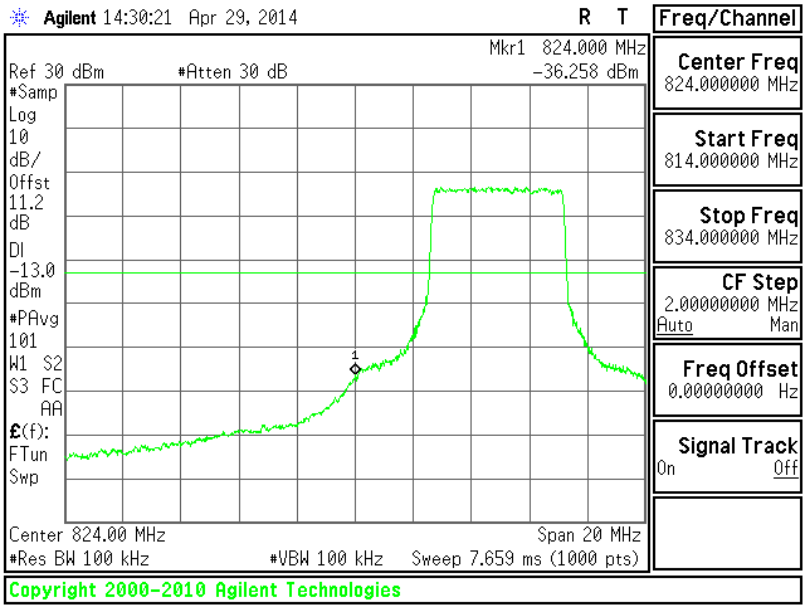
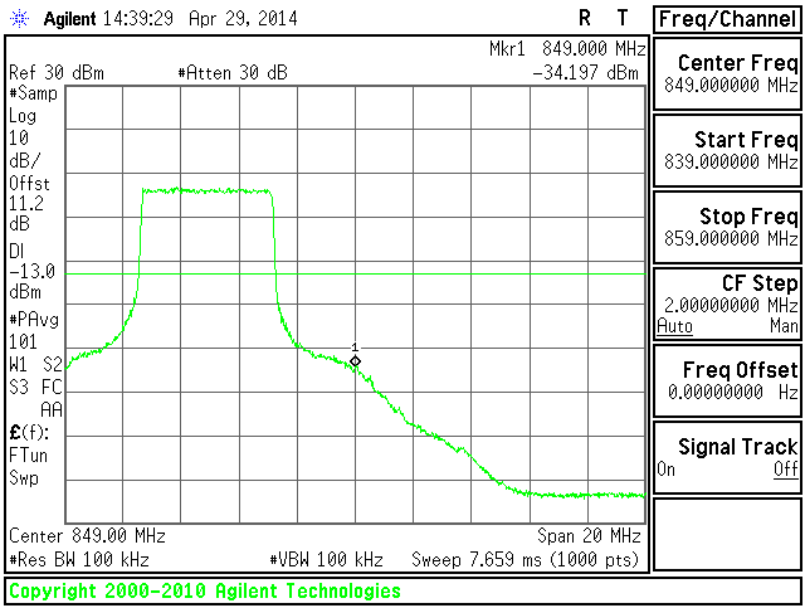
LOW CH, RB25-12



HIGH CH, RB25-12



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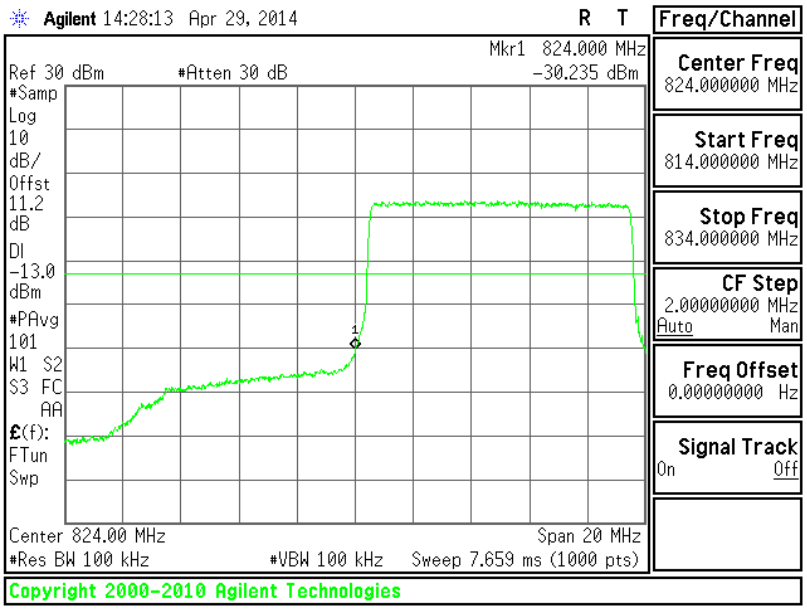
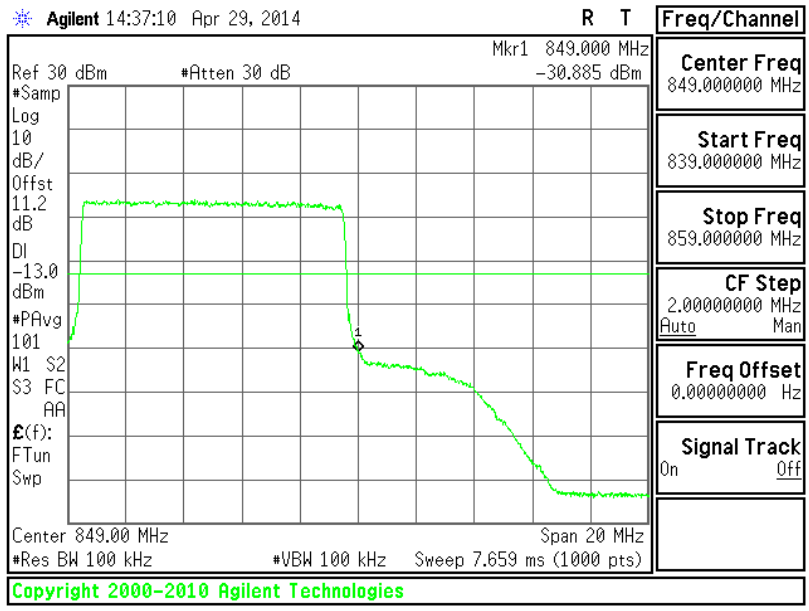
LOW CH, RB50-0



HIGH CH, RB50-0



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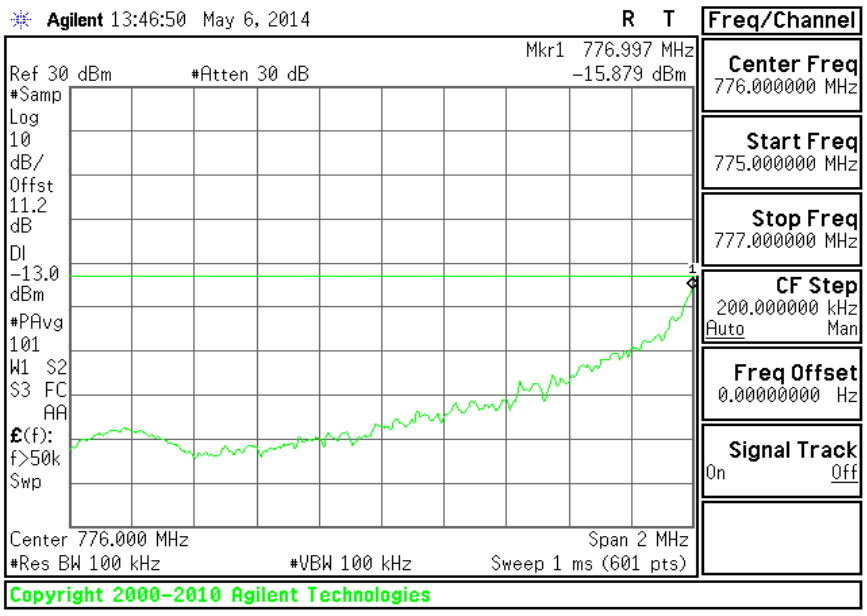
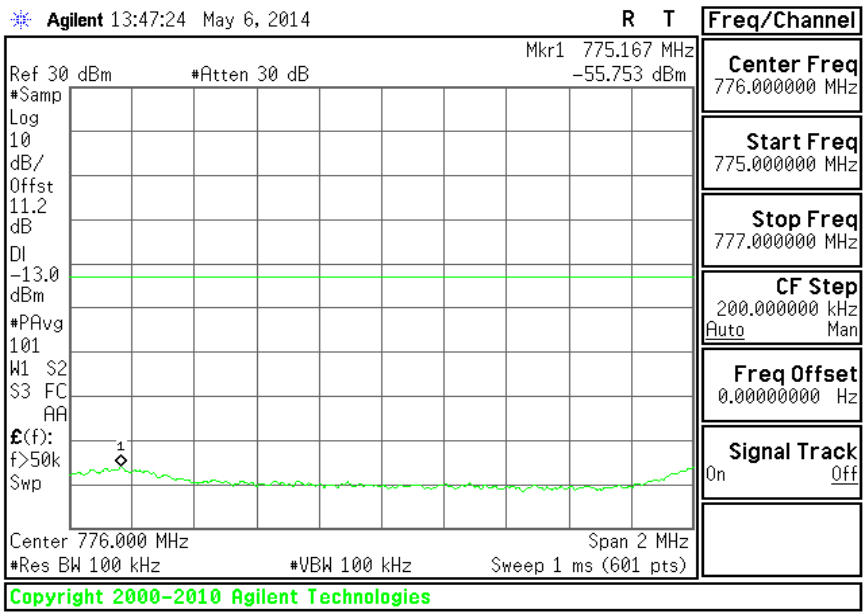
8.2.4. LTE BAND 13 BANDEDGE

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

RB1-0



RB1-24



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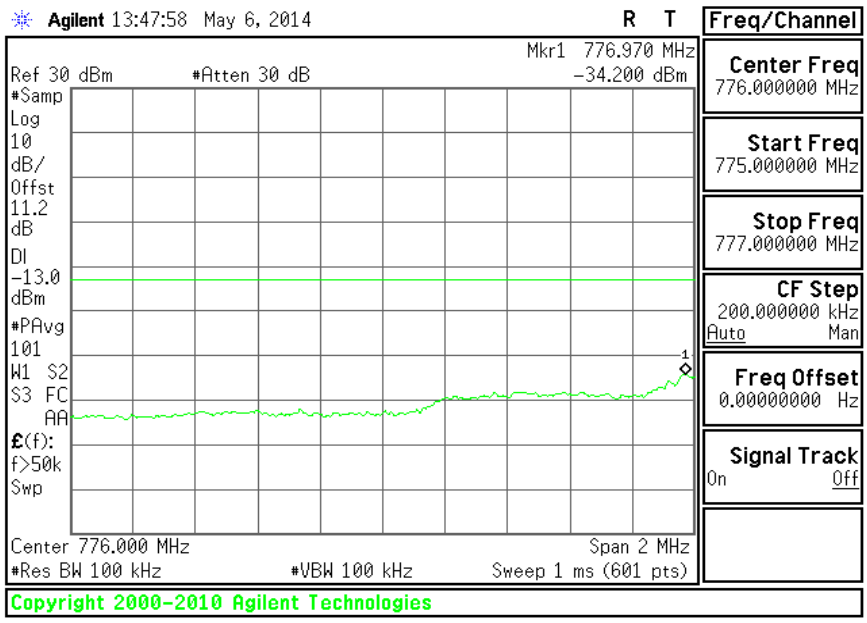
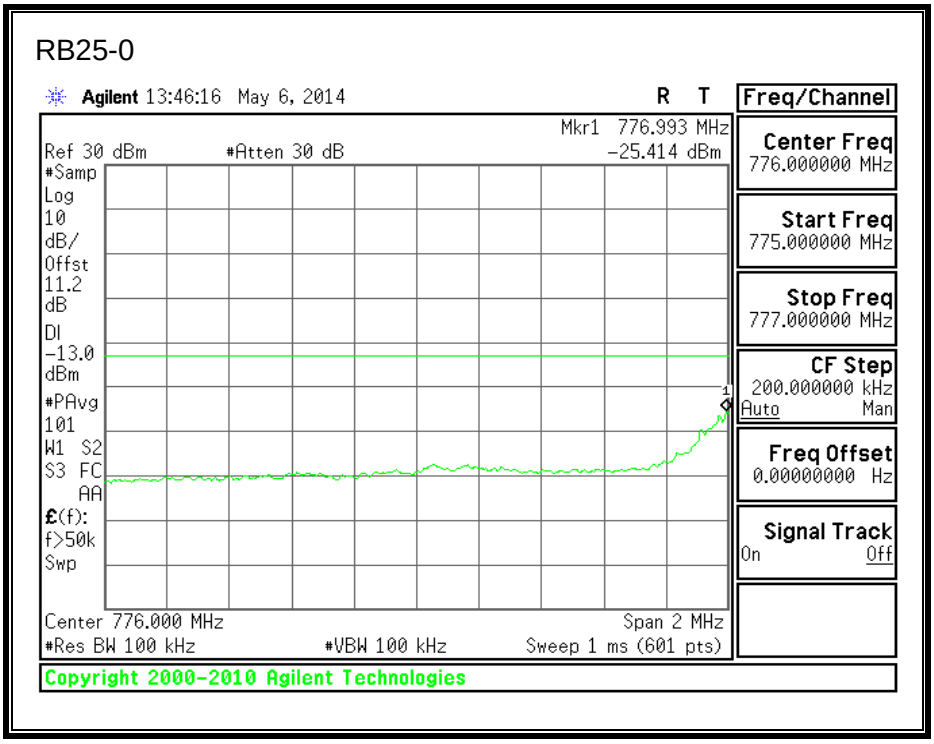
RB12-6



RB25-0



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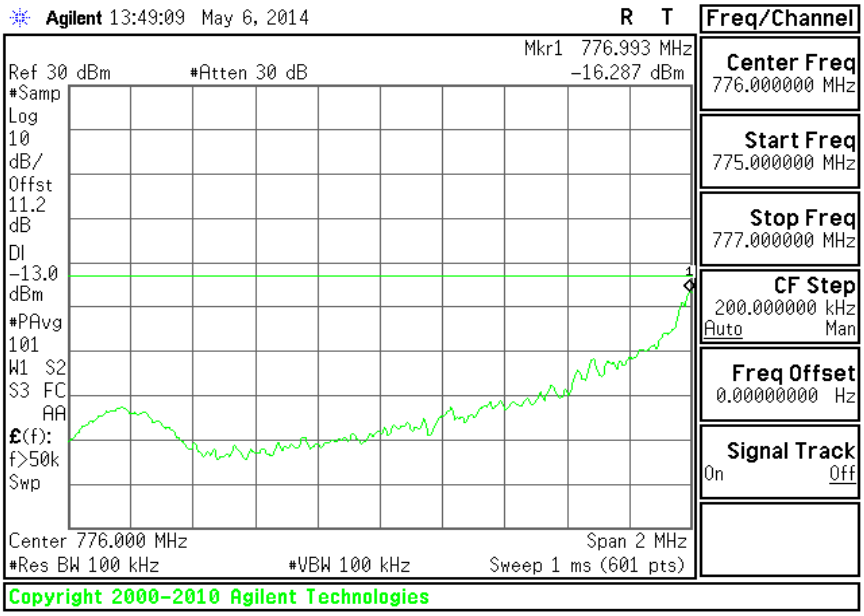
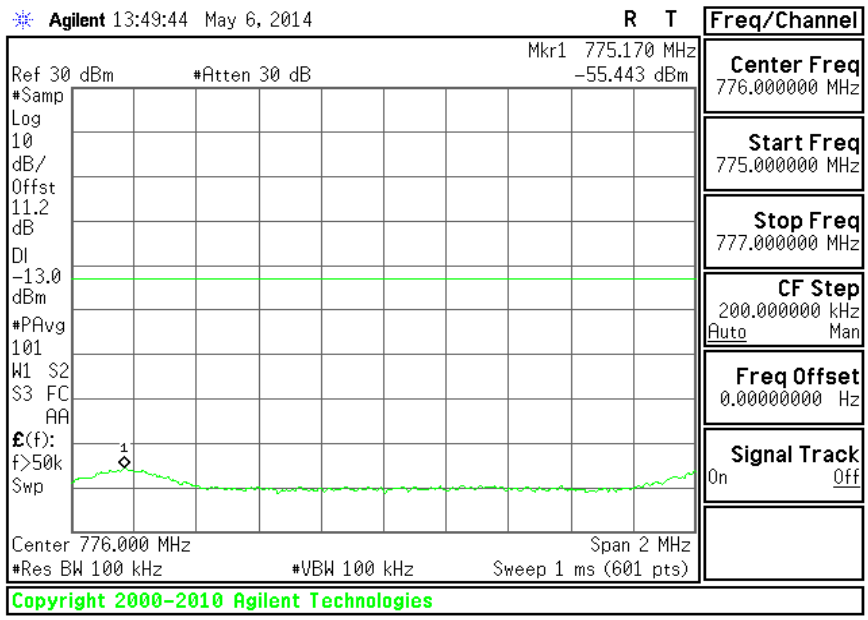
16QAM, 779.5MHz, 775 - 777MHz, (5MHz Bandwidth)

RB1-0



RB1-24



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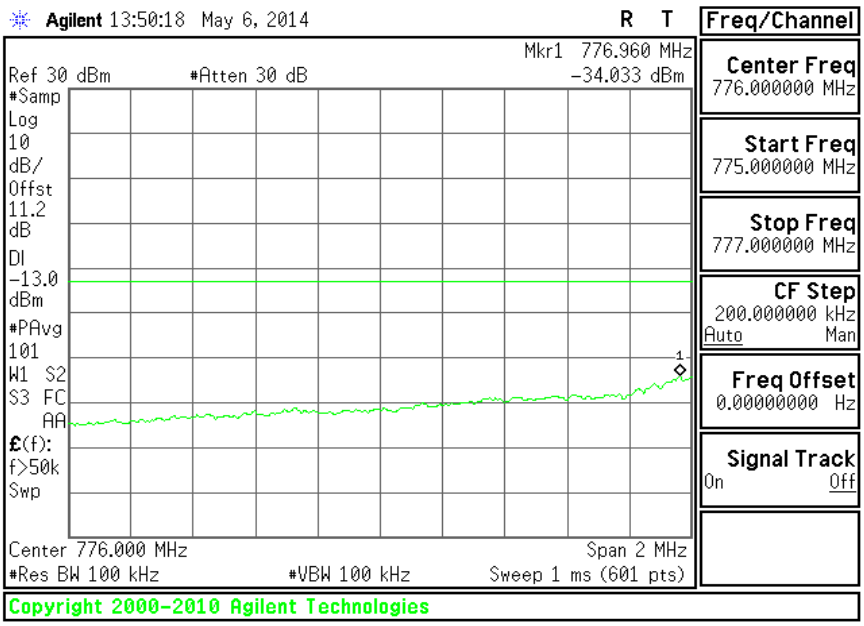
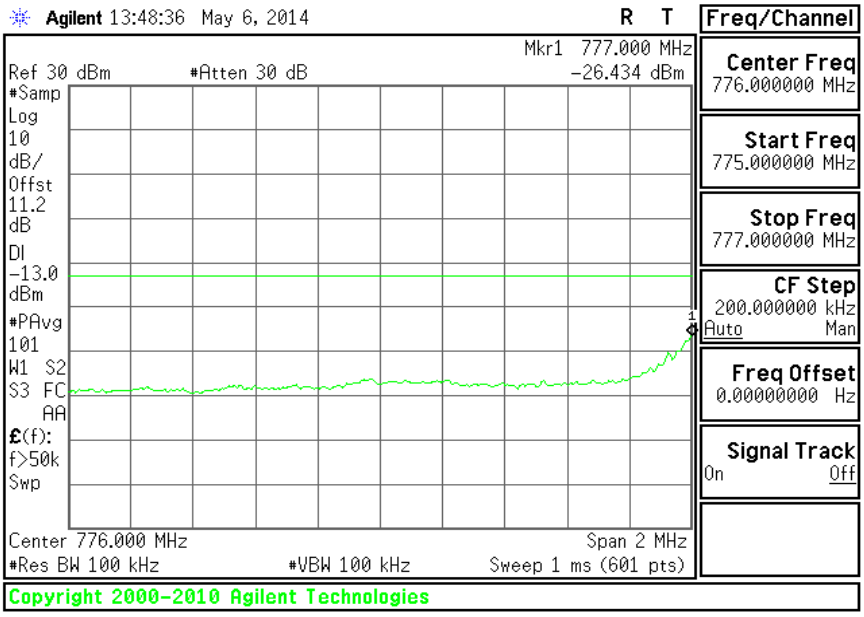
RB12-6



RB25-0



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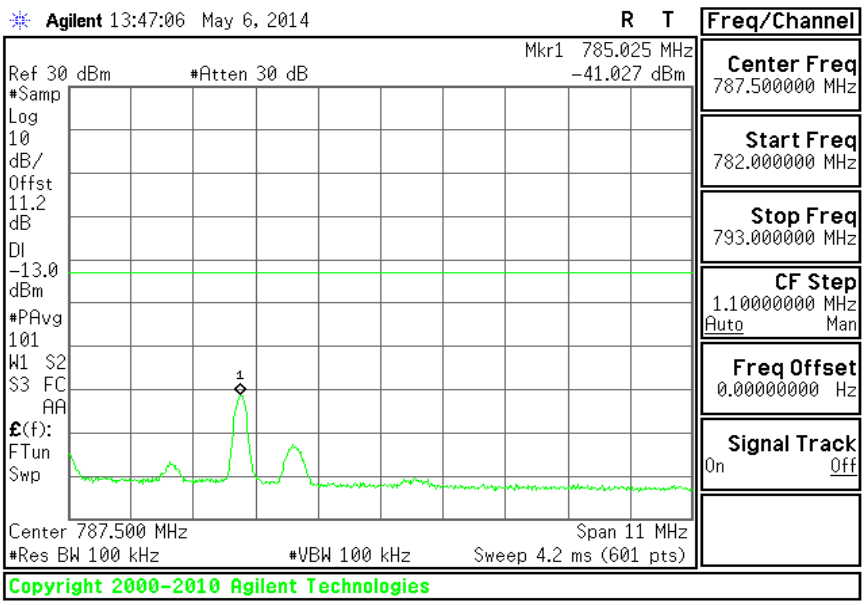
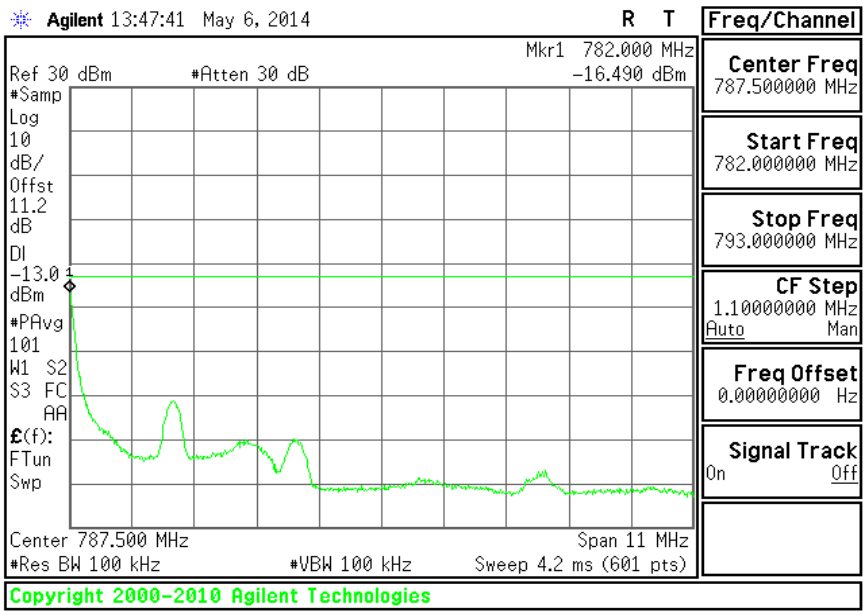
QPSK, 779.5MHz, 13, 782 - 793MHz, (5MHz Bandwidth)

RB1-0



RB1-24



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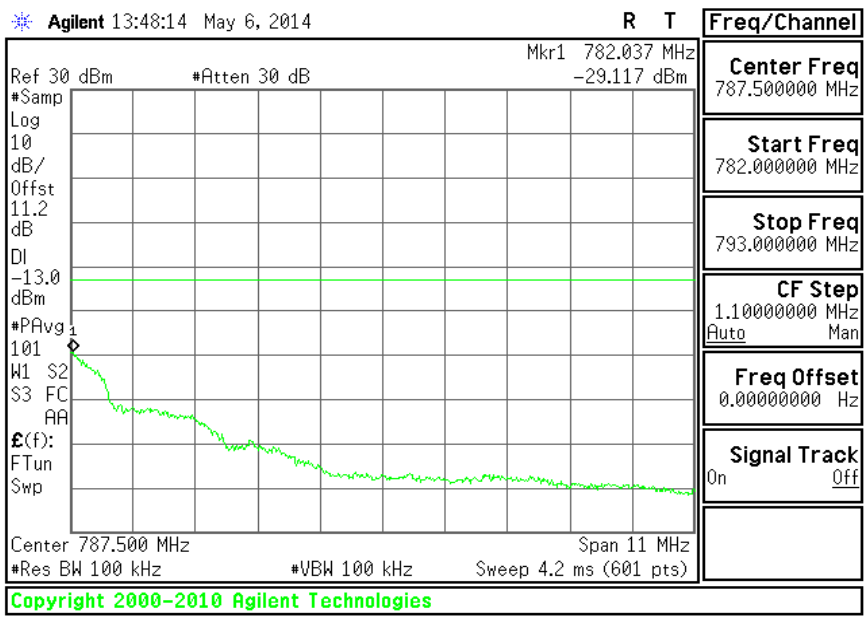
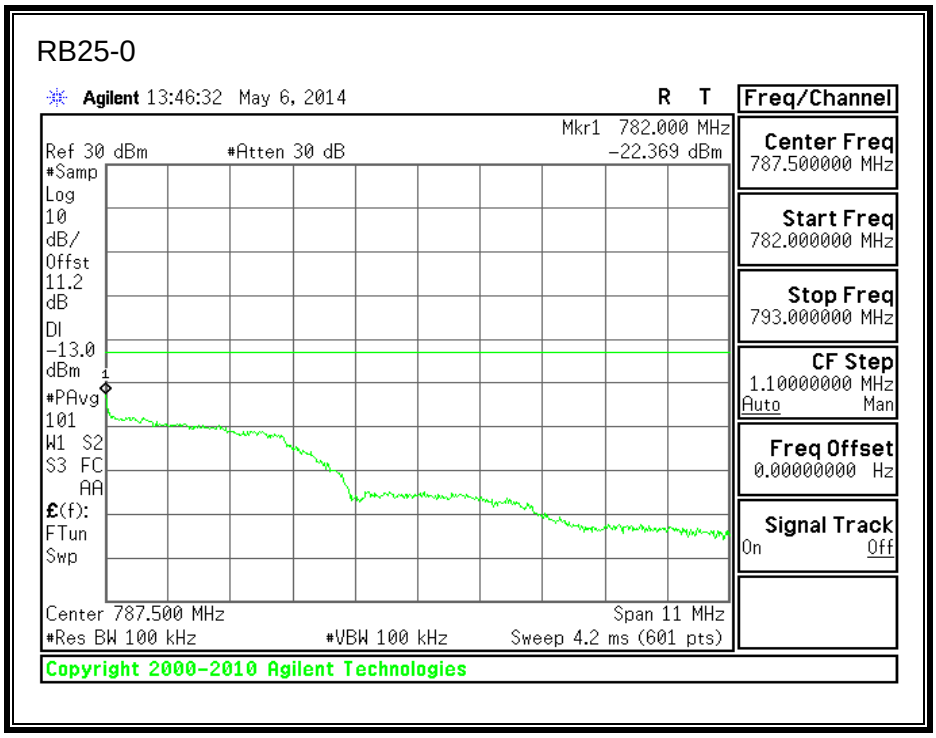
RB12-6



RB25-0



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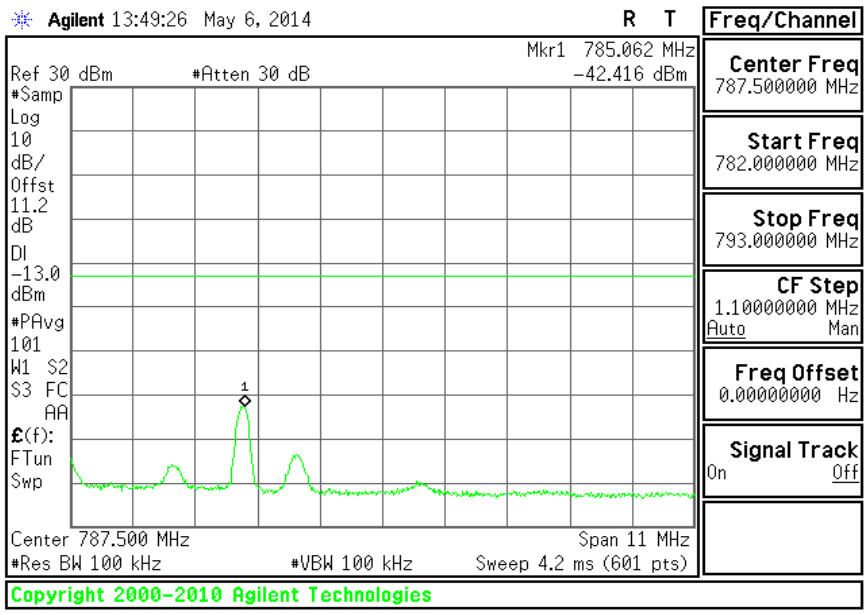
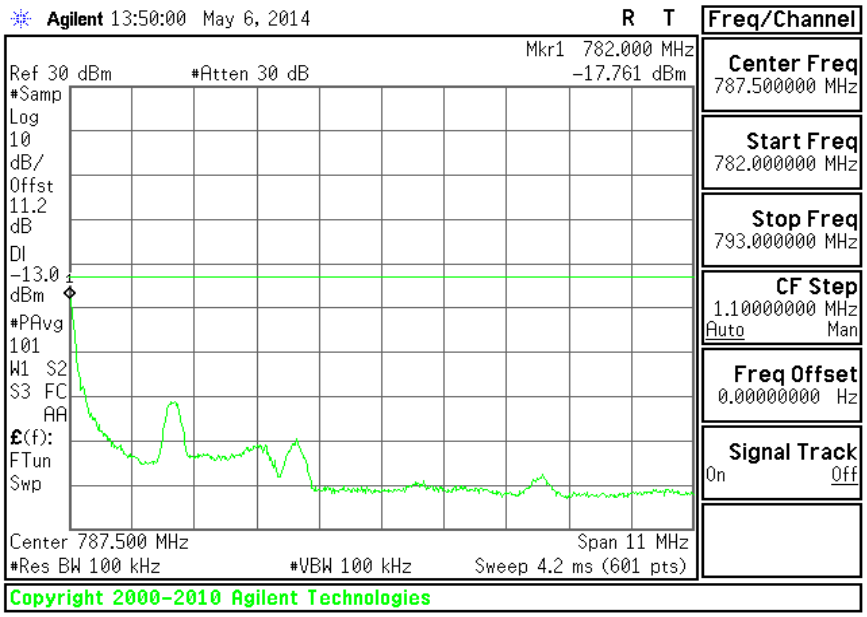
16QAM, 779.5MHz, 783 - 793MHz, (5MHz Bandwidth)

RB1-0



RB1-24



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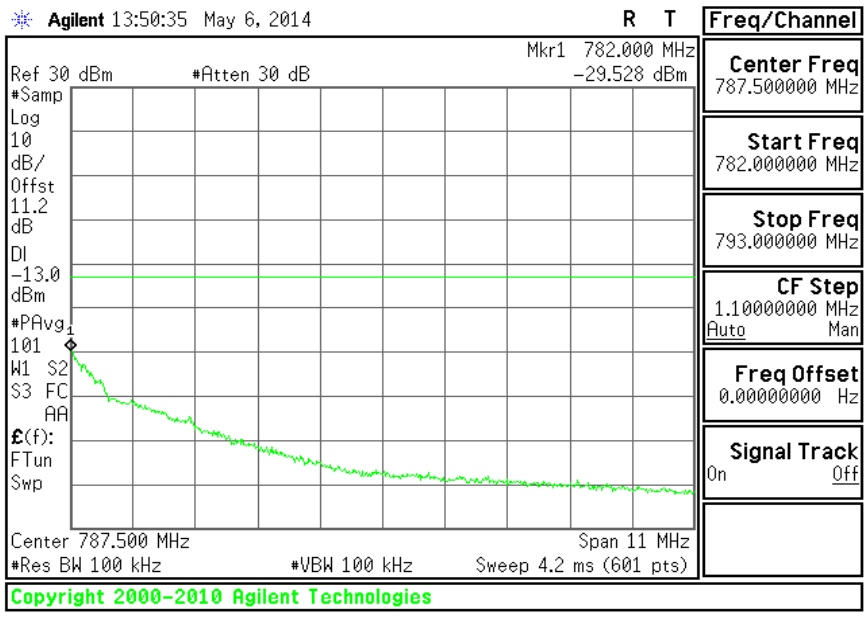
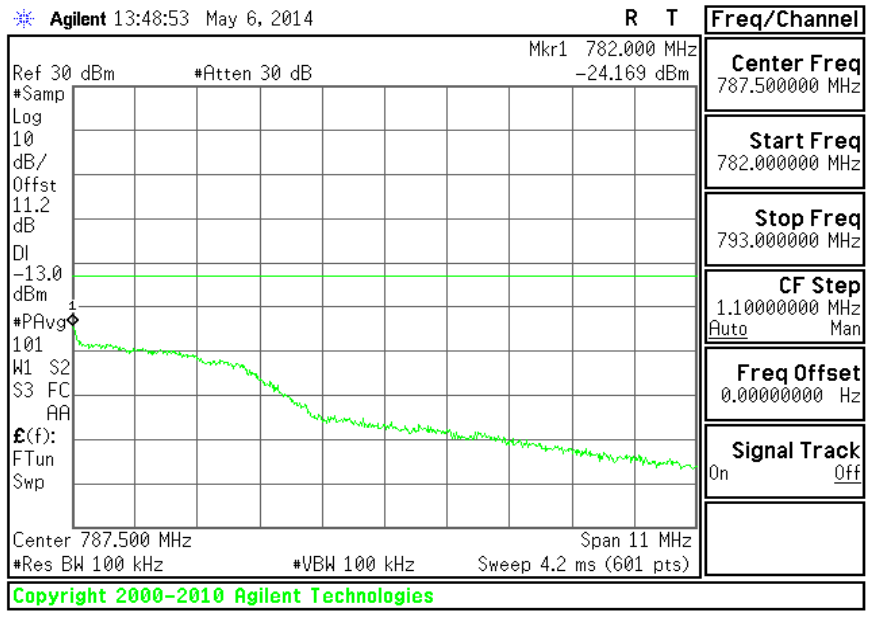
RB12-6



RB25-0



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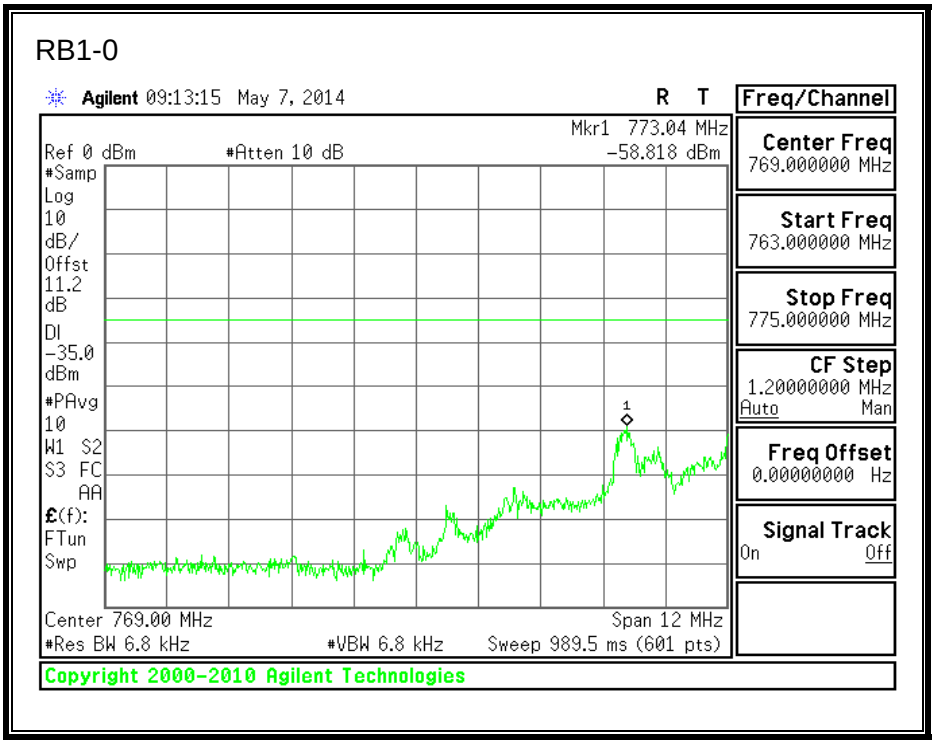
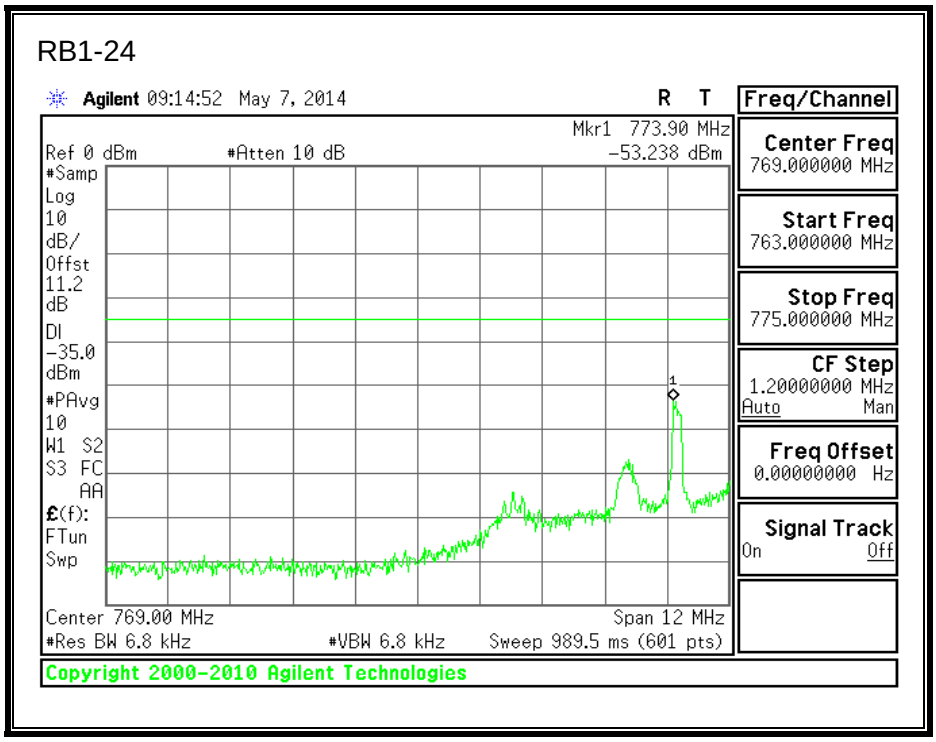
QPSK, 779.5MHz, 763 - 775MHz, (5MHz Bandwidth)





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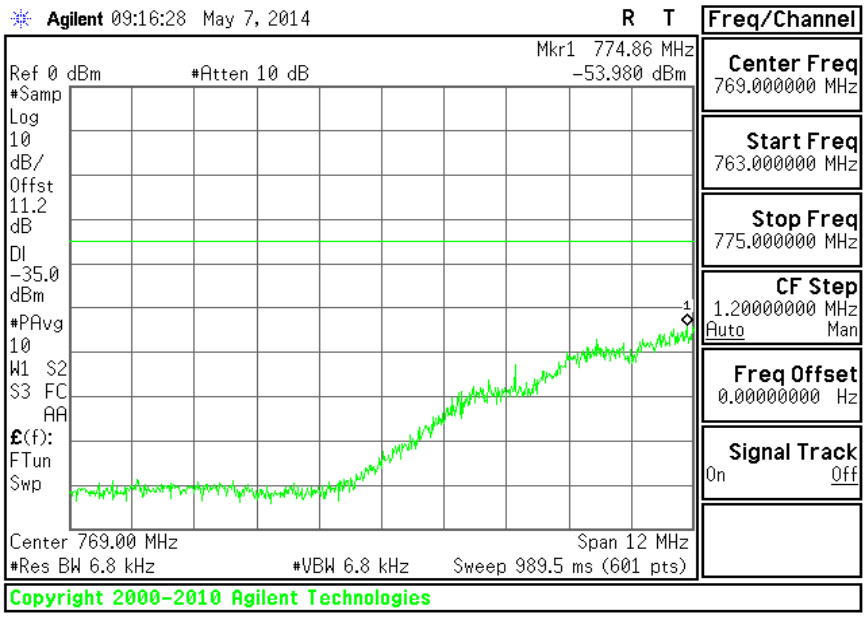
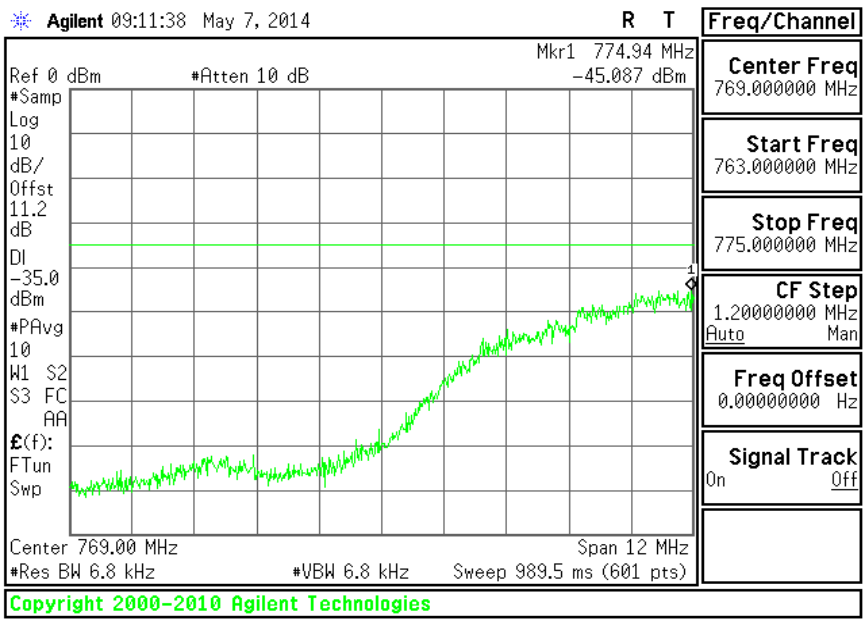
RB12-6



RB25-0



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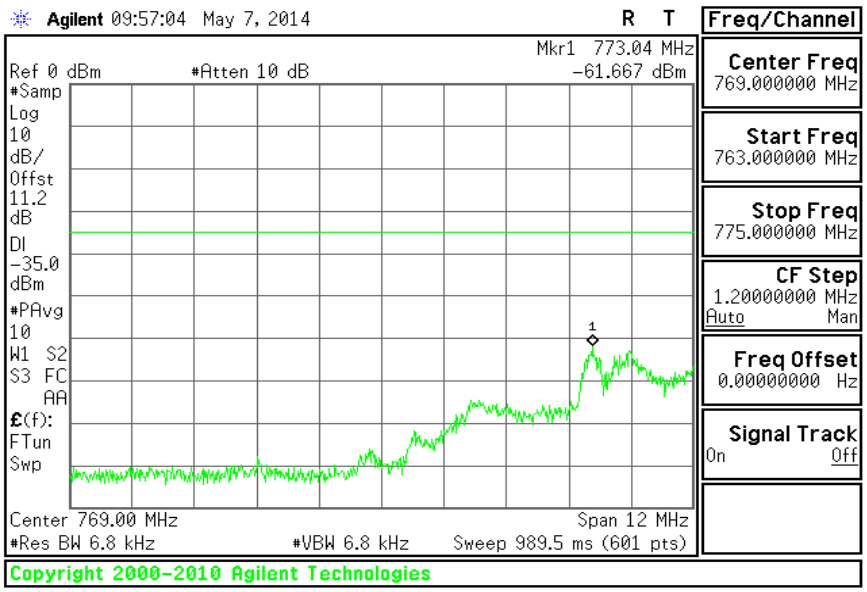
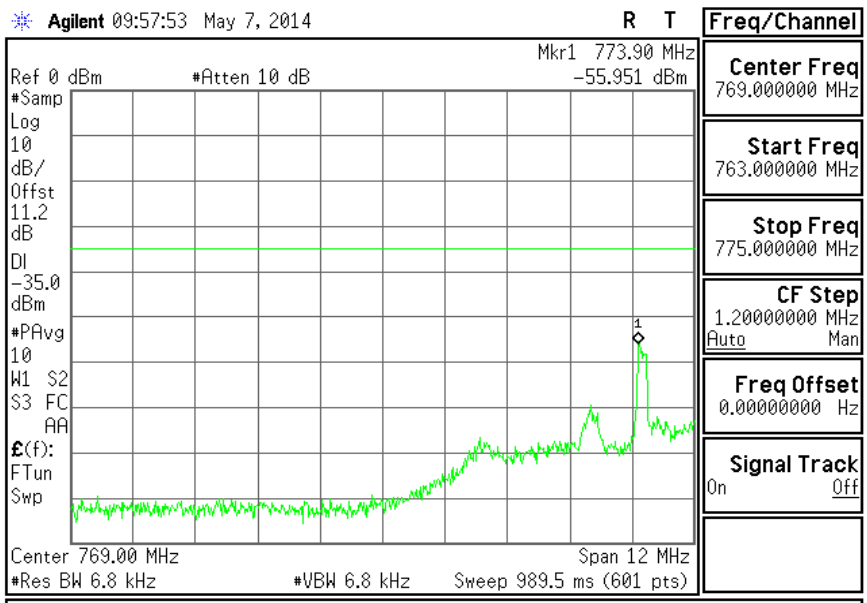
16QAM, 779.5MHz, 763-775MHz, (5MHz Bandwidth)

RB1-0



RB1-24



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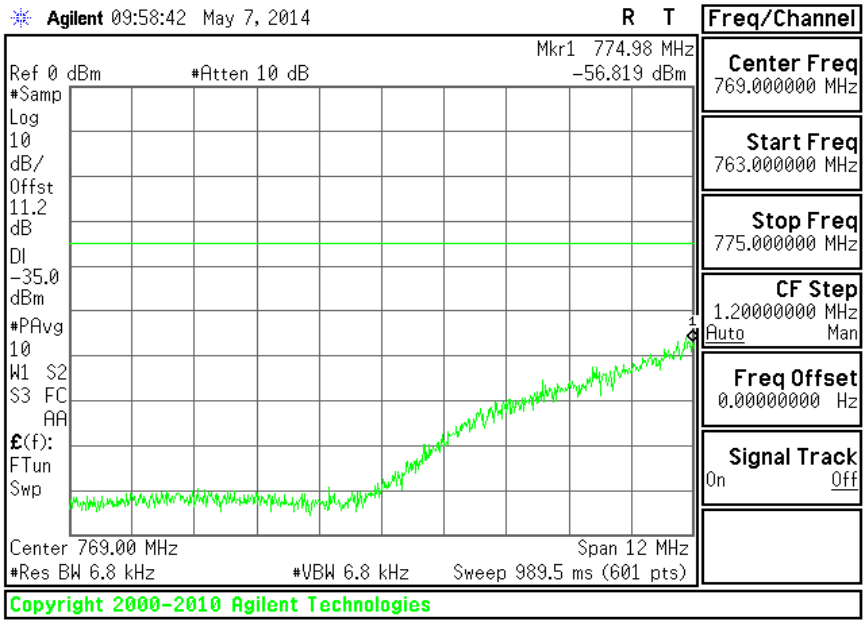
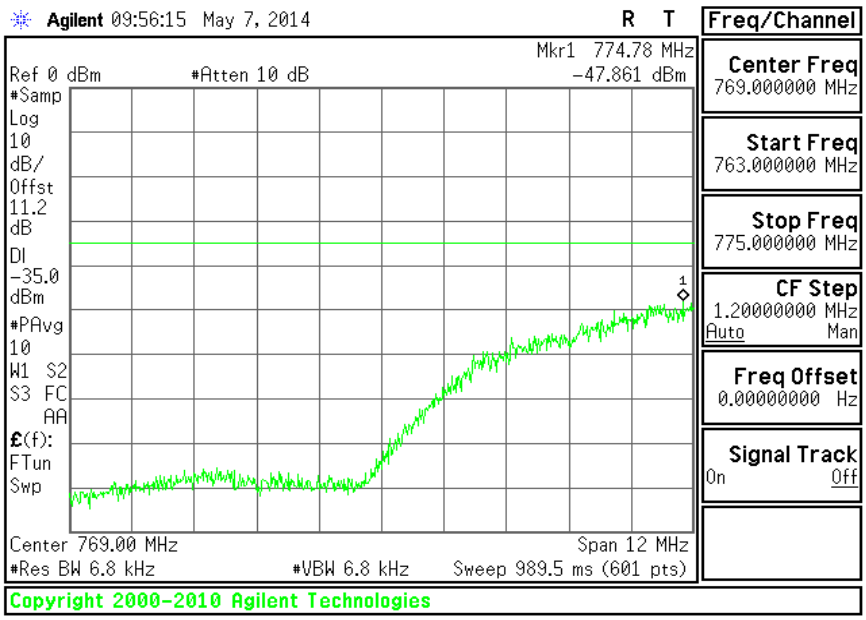
RB12-6



RB25-0



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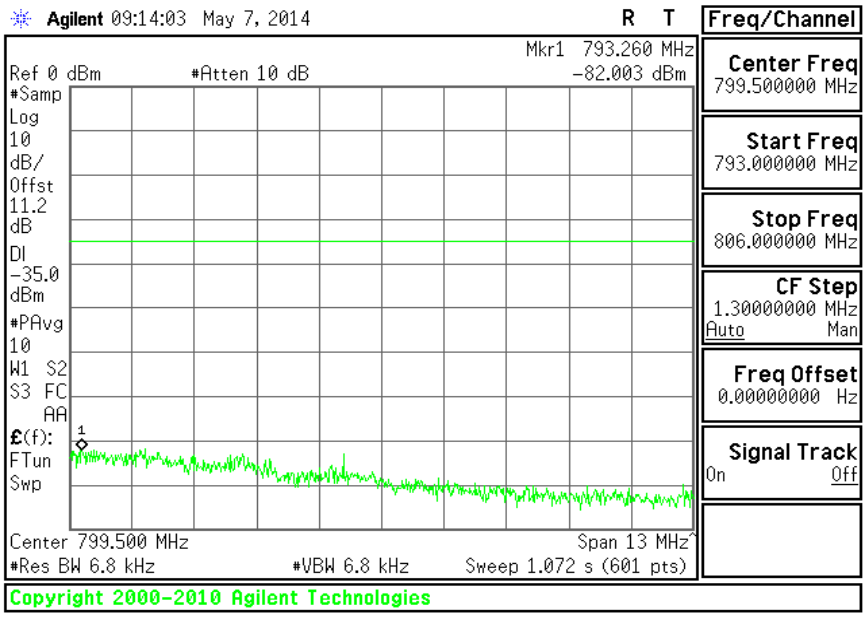
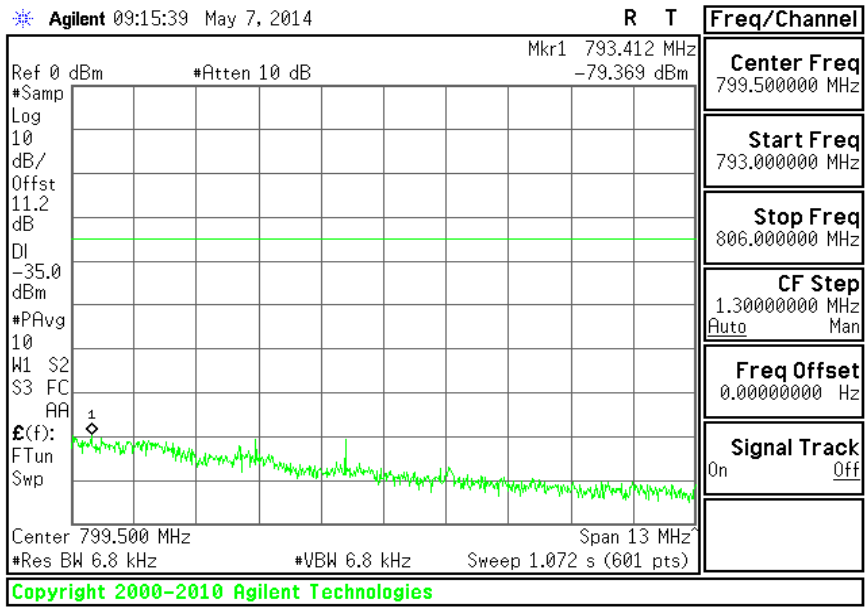
QPSK, 779.5MHz, 793 - 806MHz, (5MHz Bandwidth)

RB1-0



RB1-24



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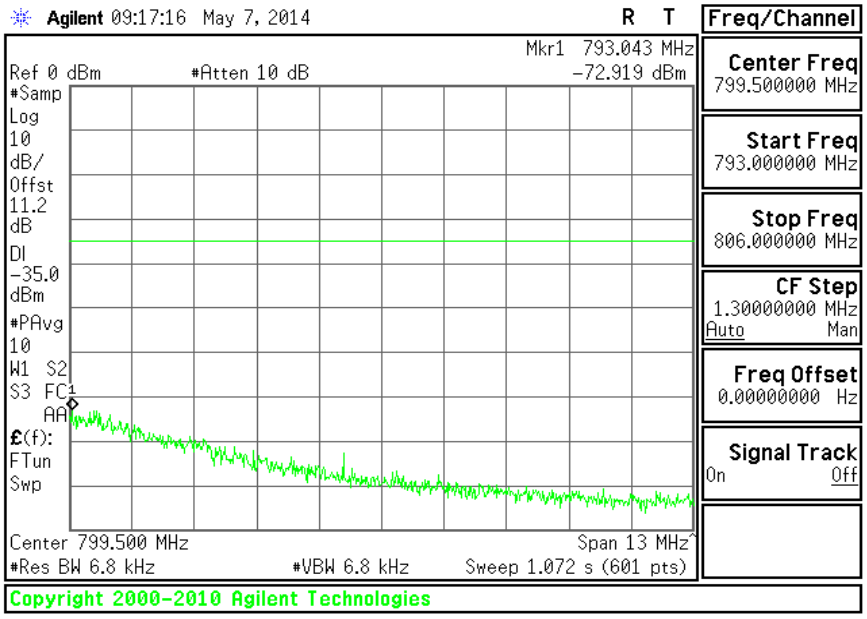
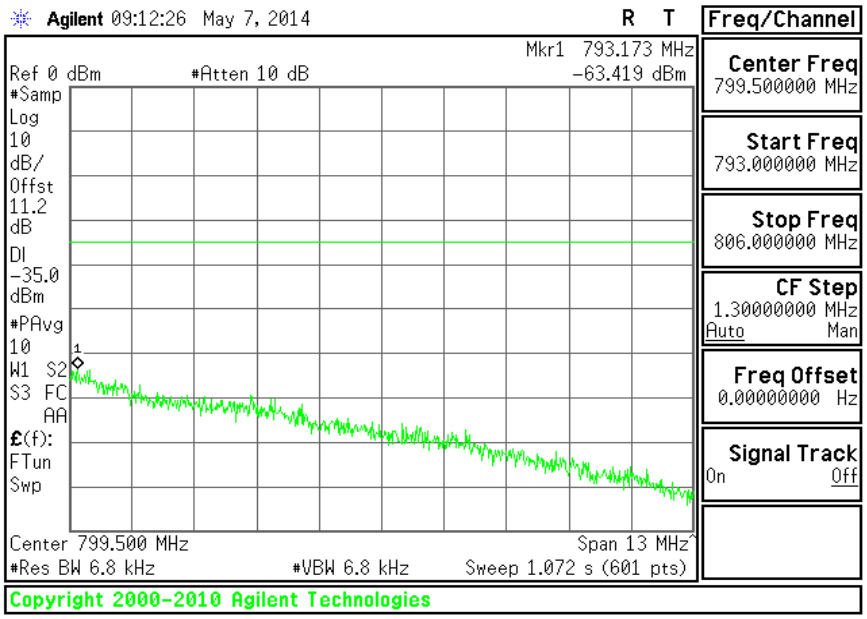
RB12-6



RB25-0



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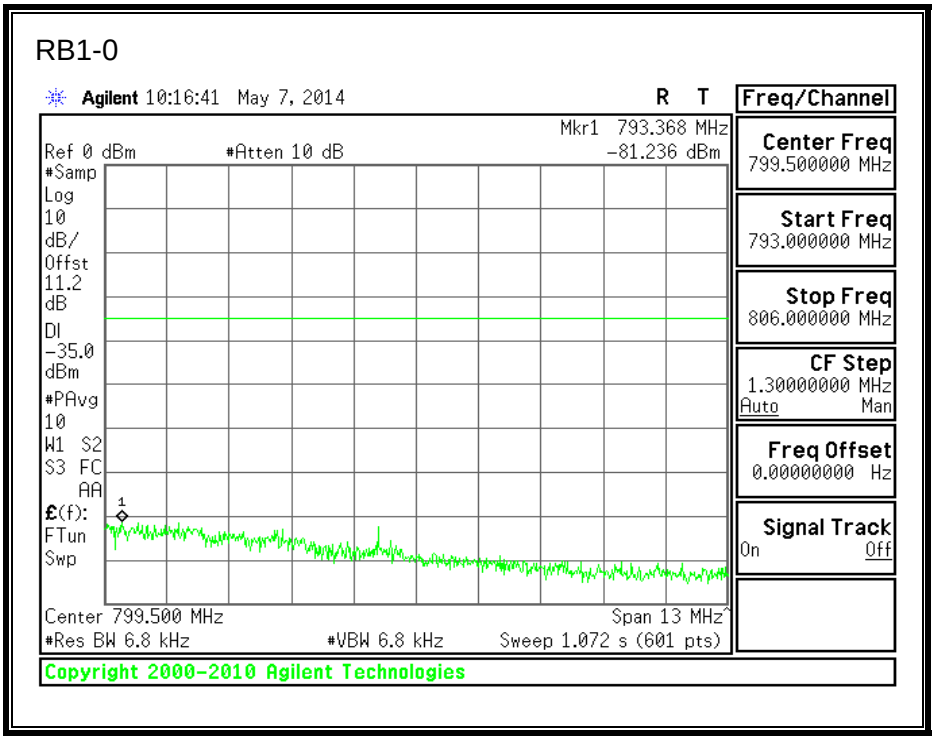
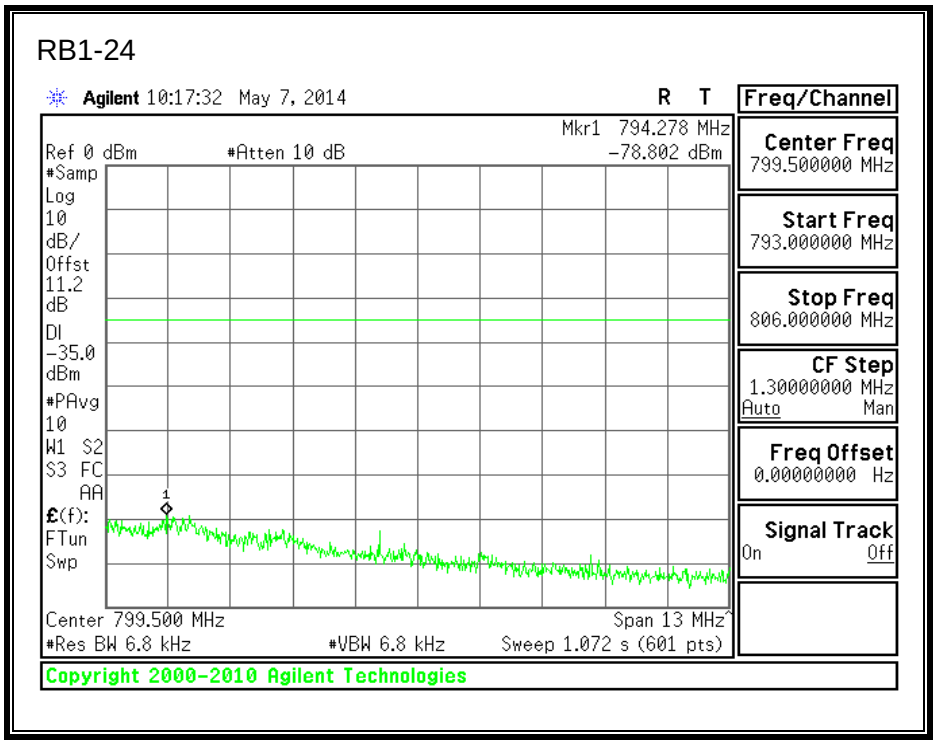
16QAM, 779.5MHz, 793 - 806MHz, (5MHz Bandwidth)





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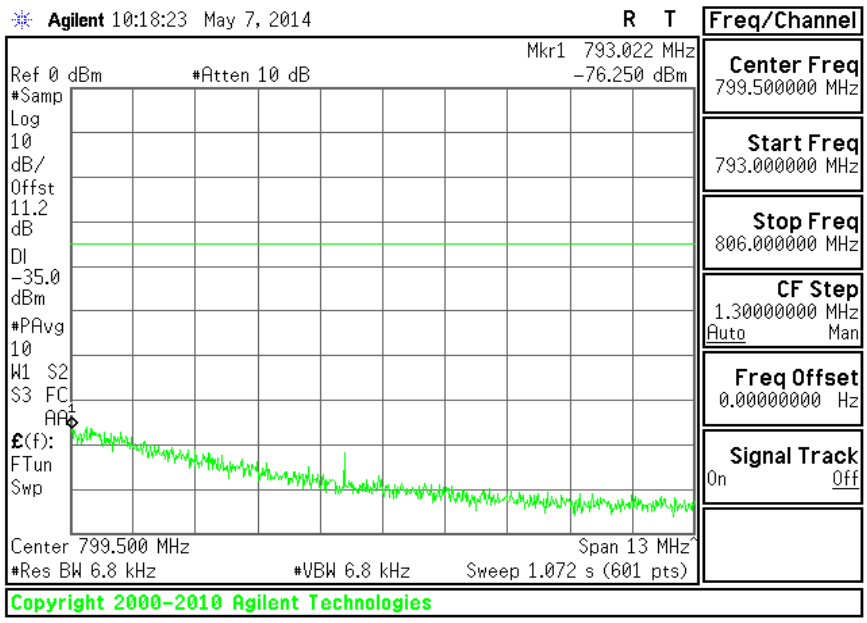
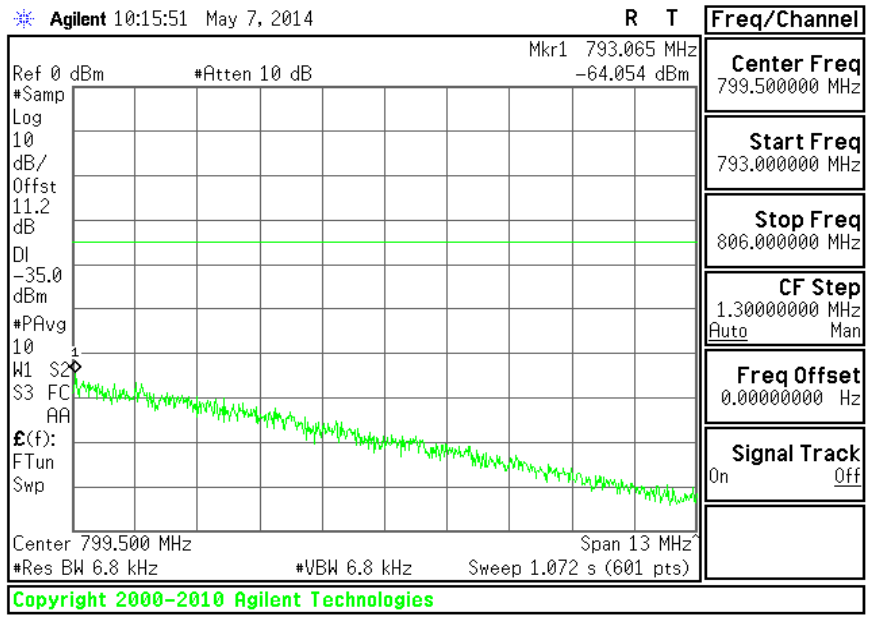
RB12-6



RB25-0



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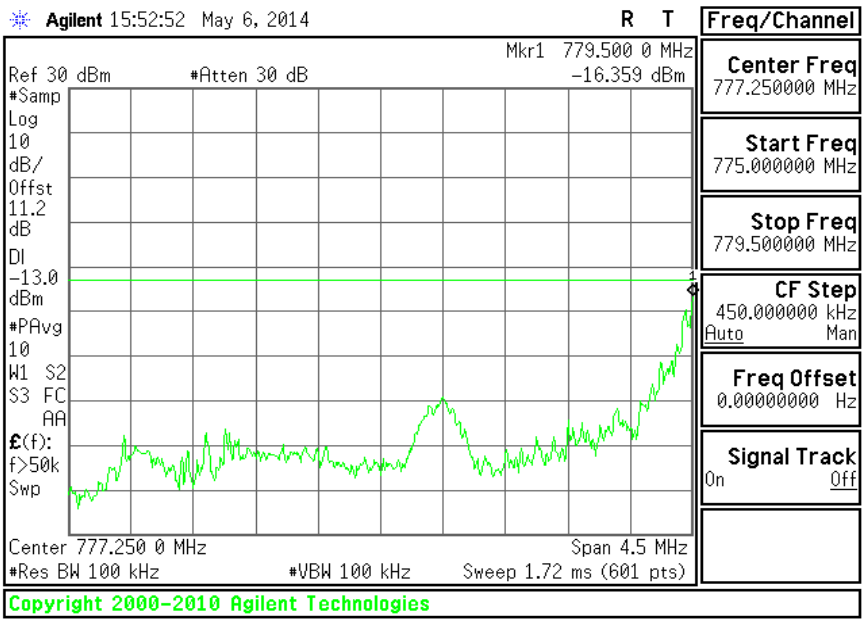
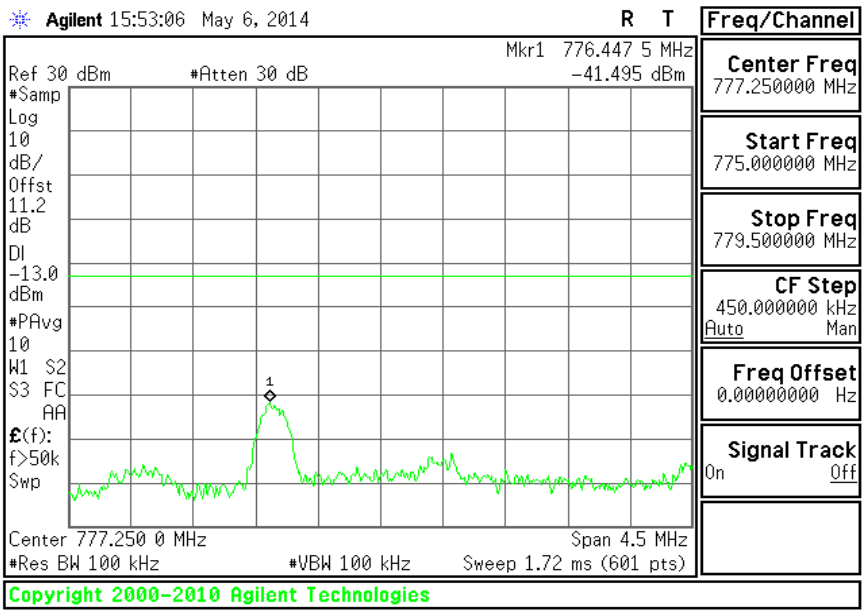
QPSK, 782MHz, 775 – 779.5MHz, (5MHz Bandwidth)

RB1-0



RB1-24



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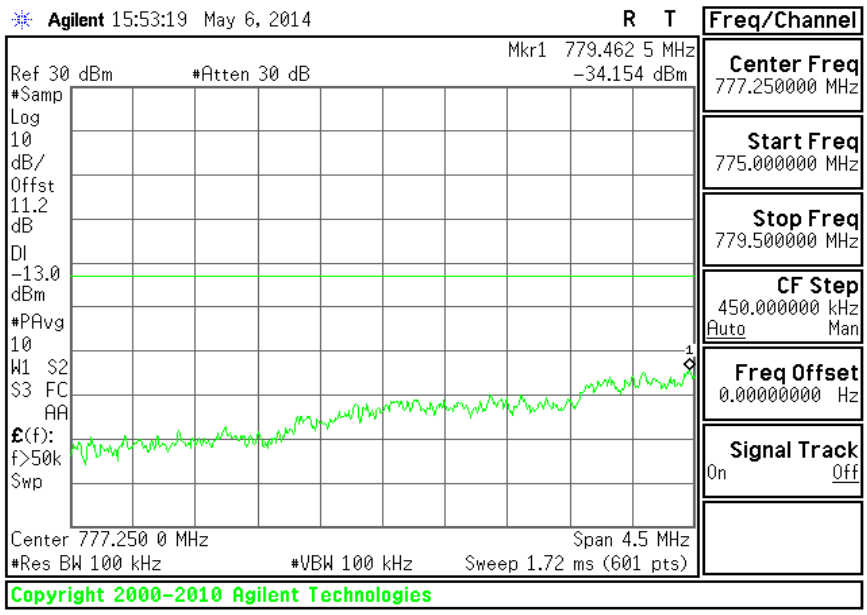
RB12-6



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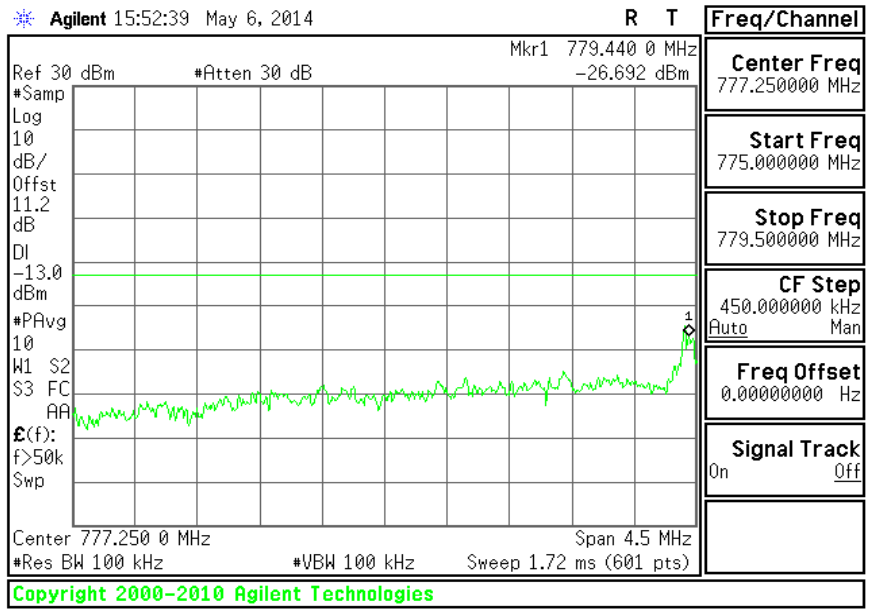

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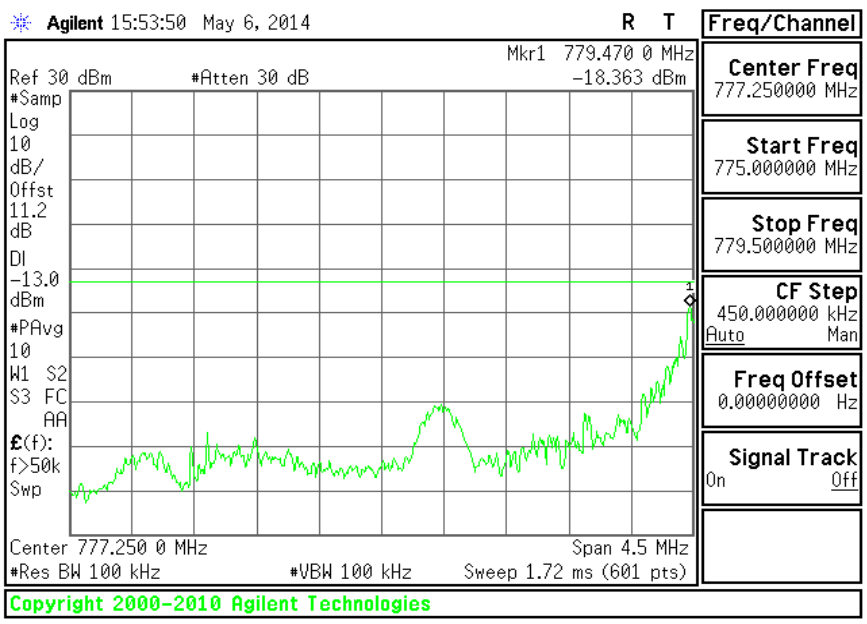
16QAM, 782MHz, 775 - 777MHz, (5MHz Bandwidth)

RB1-0



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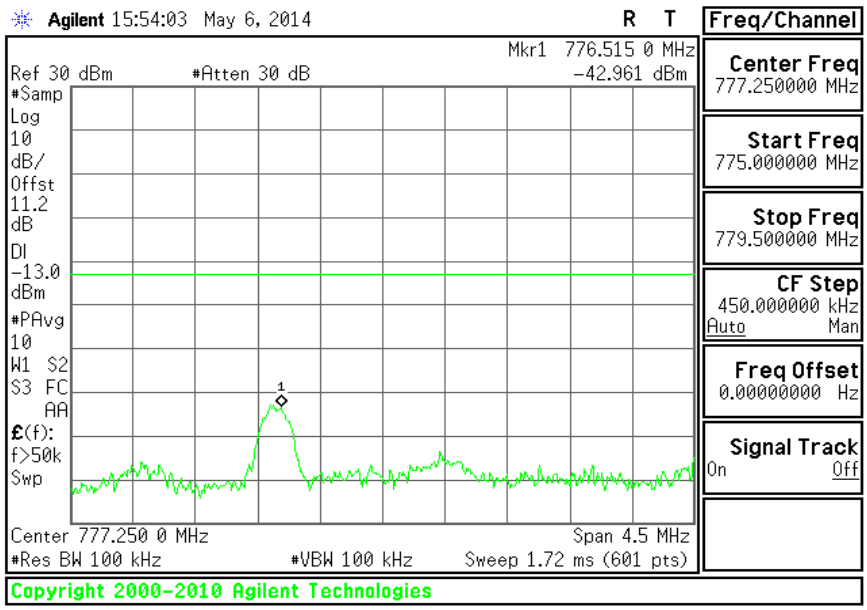

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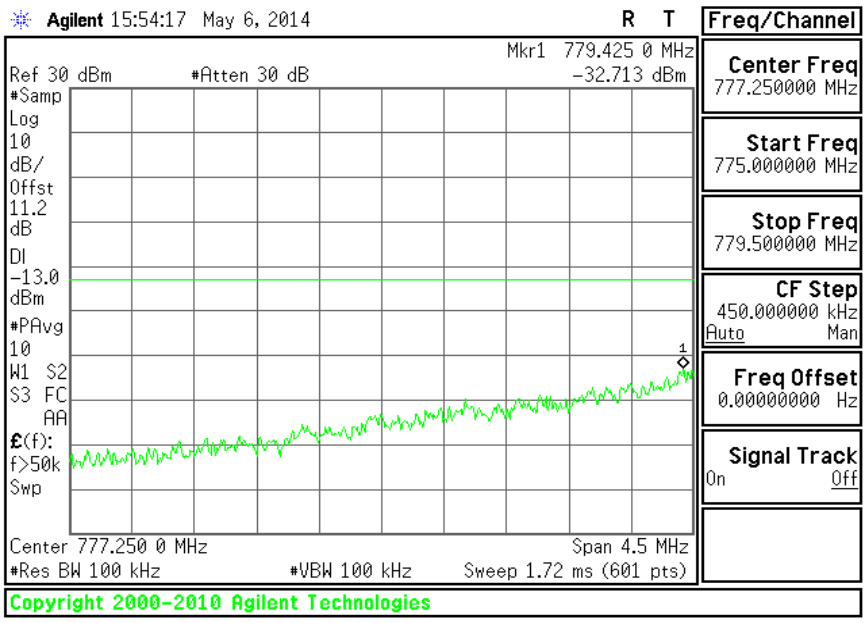
RB12-6



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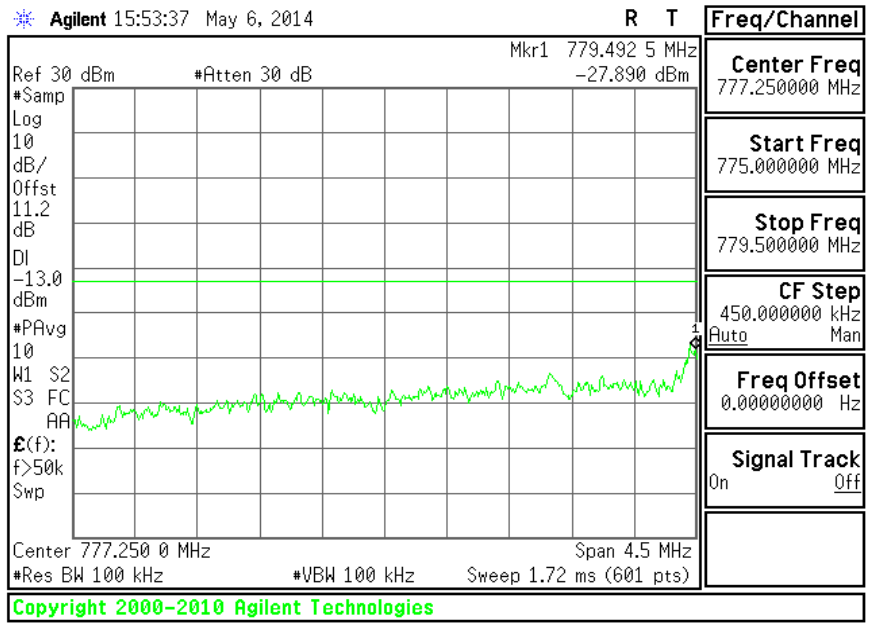

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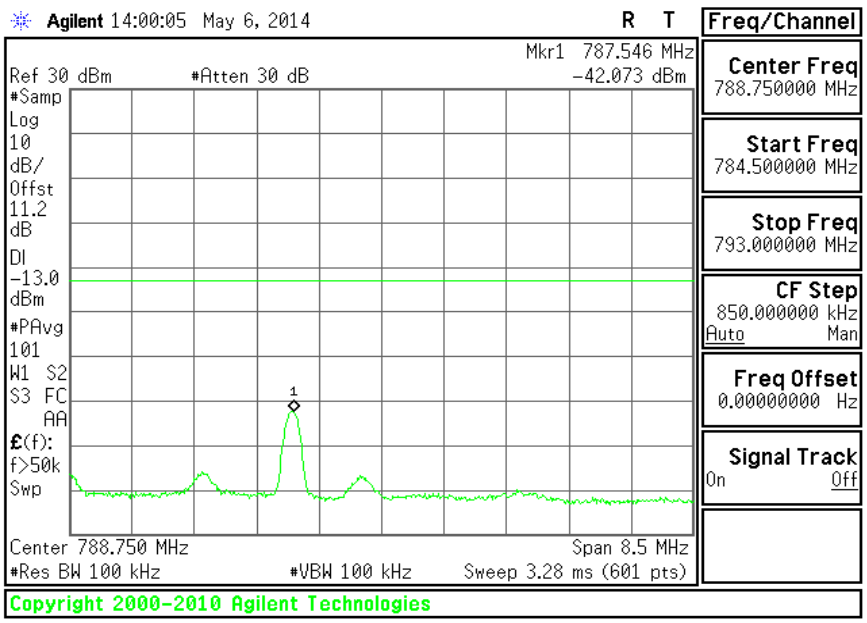
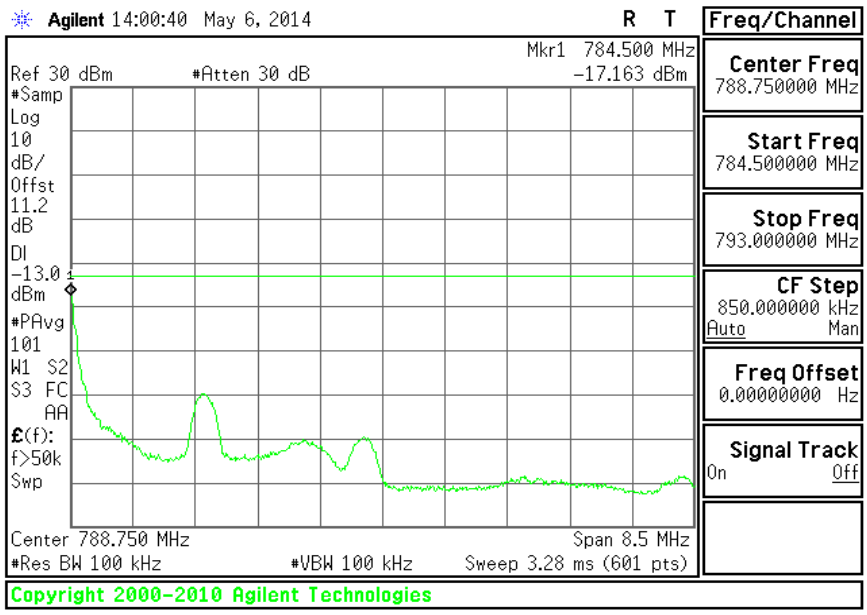
QPSK, 782MHz, 784.5 - 793MHz, (5MHz Bandwidth)

RB1-0



RB1-24



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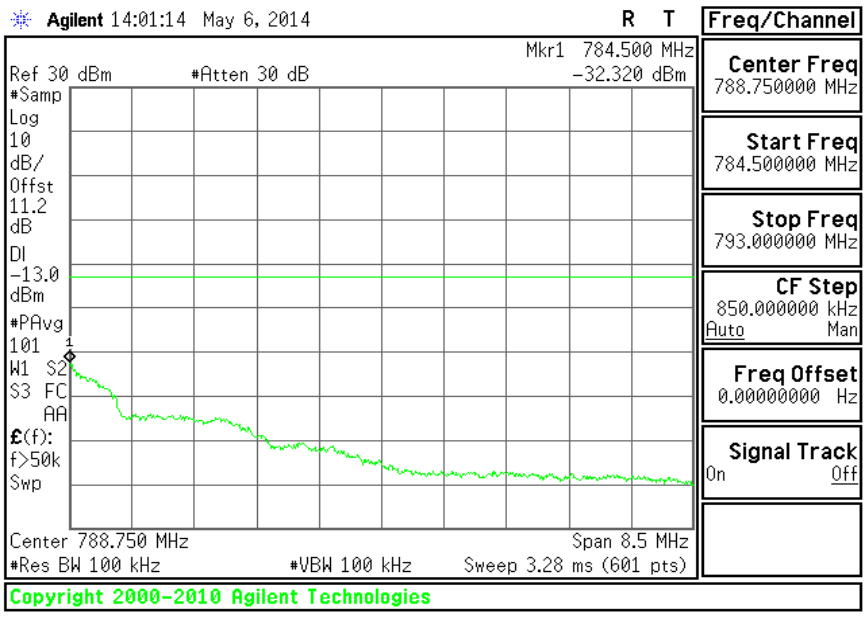
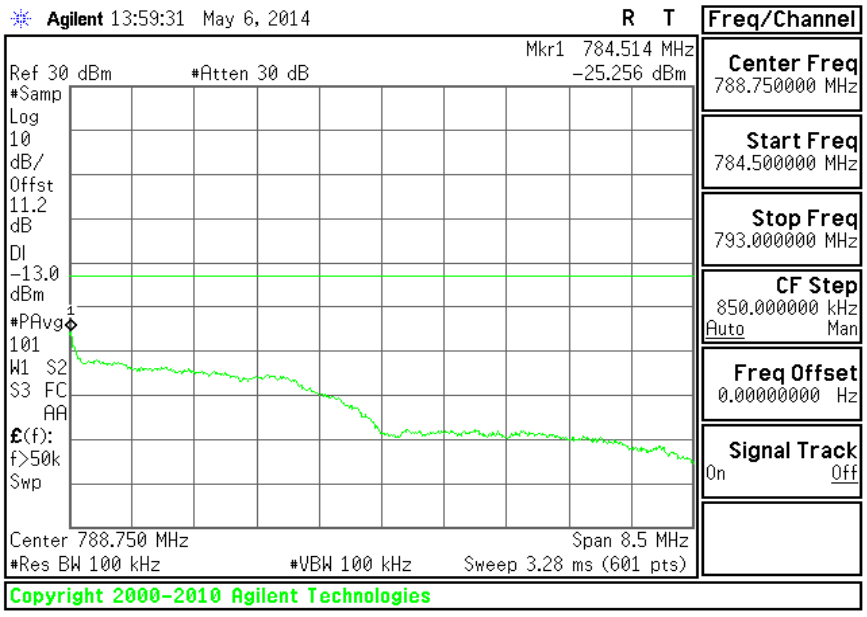
RB12-6



RB25-0



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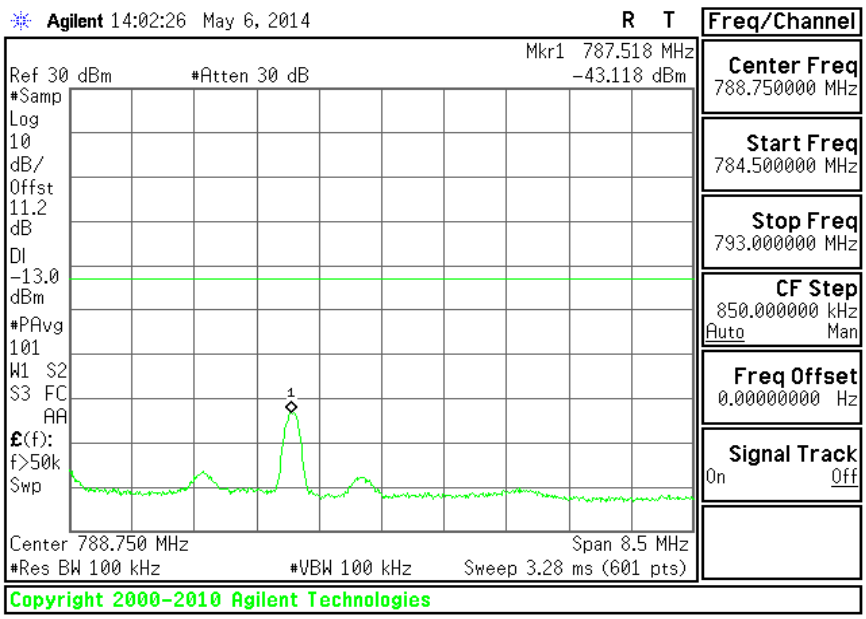
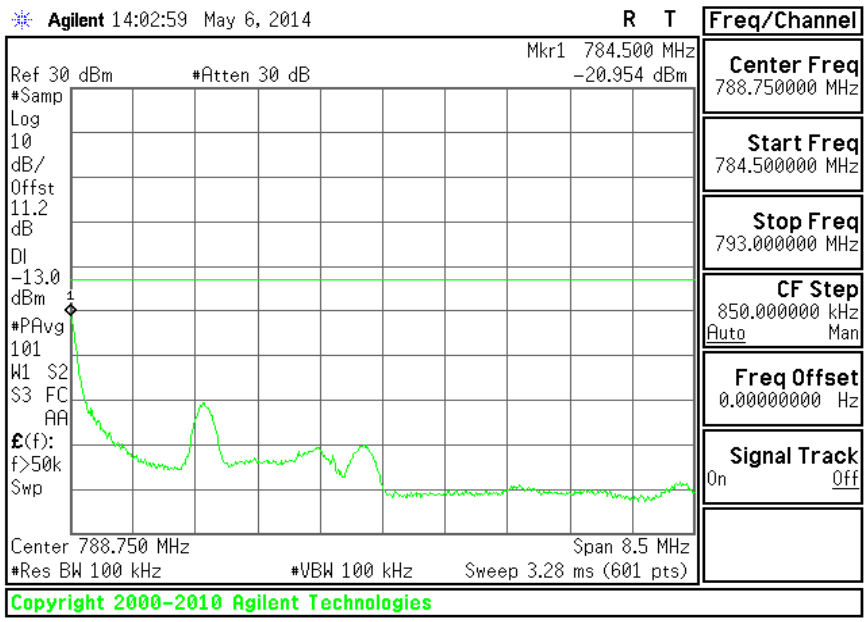
16QAM, 782MHz, 784.5 - 793MHz, (5MHz Bandwidth)

RB1-0



RB1-24



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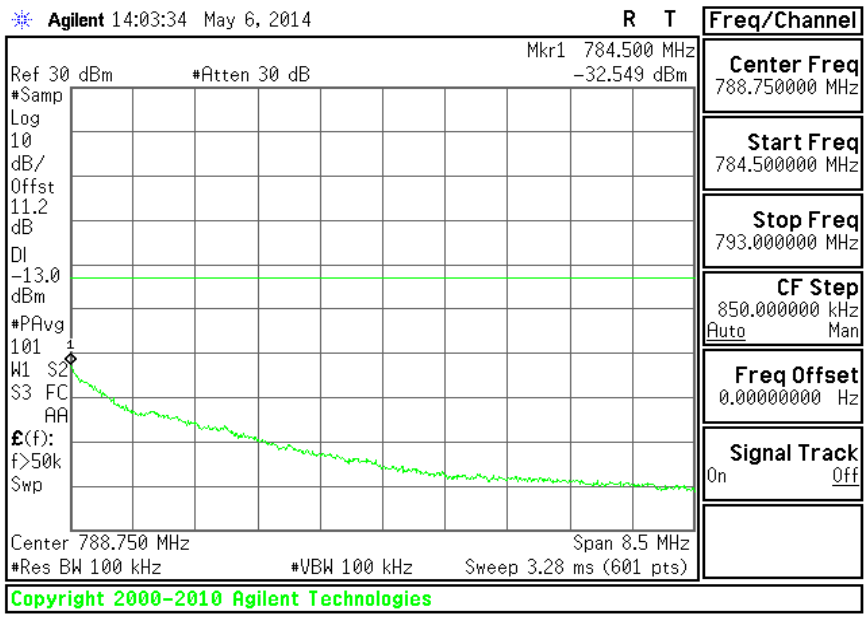
RB12-6



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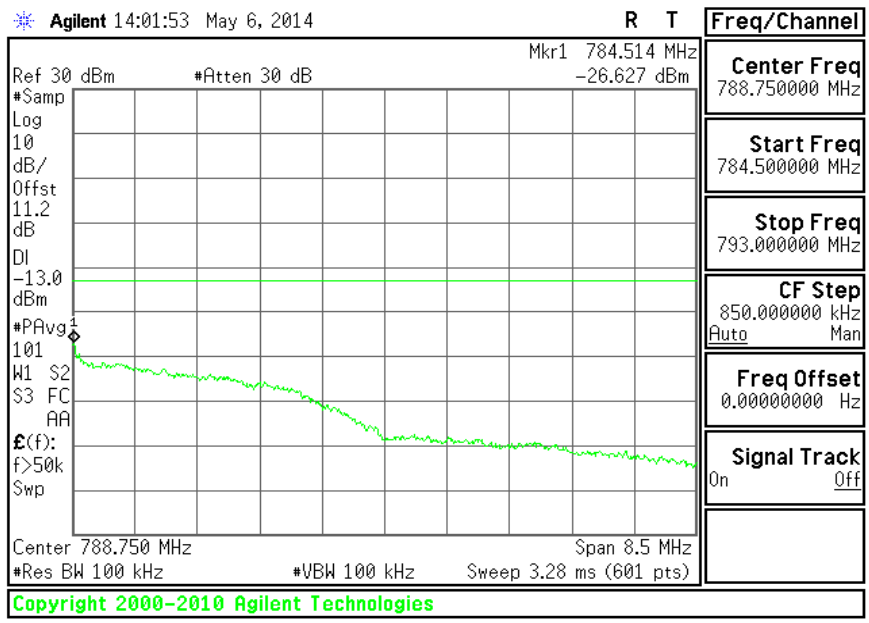

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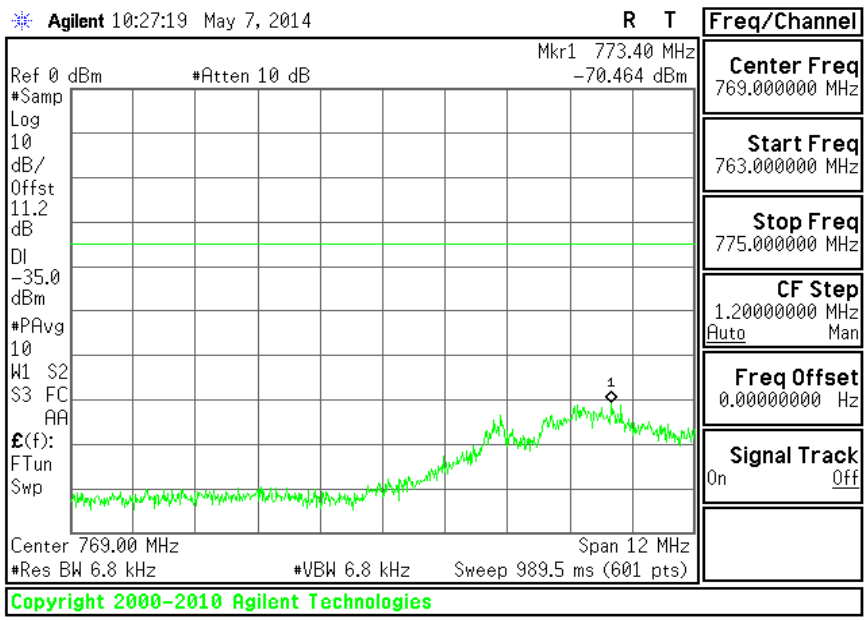
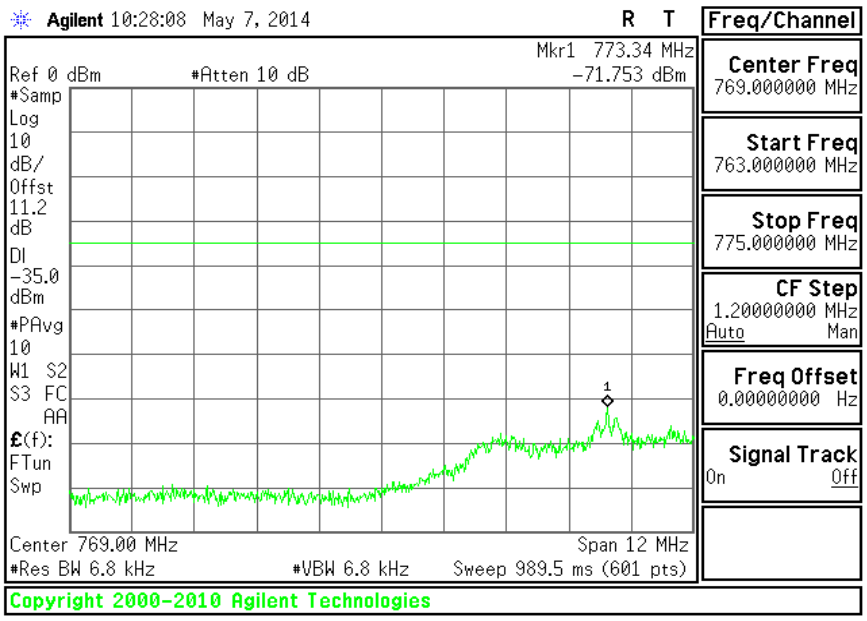
QPSK, 782MHz, 763 - 775MHz, (5MHz Bandwidth)

RB1-0



RB1-24



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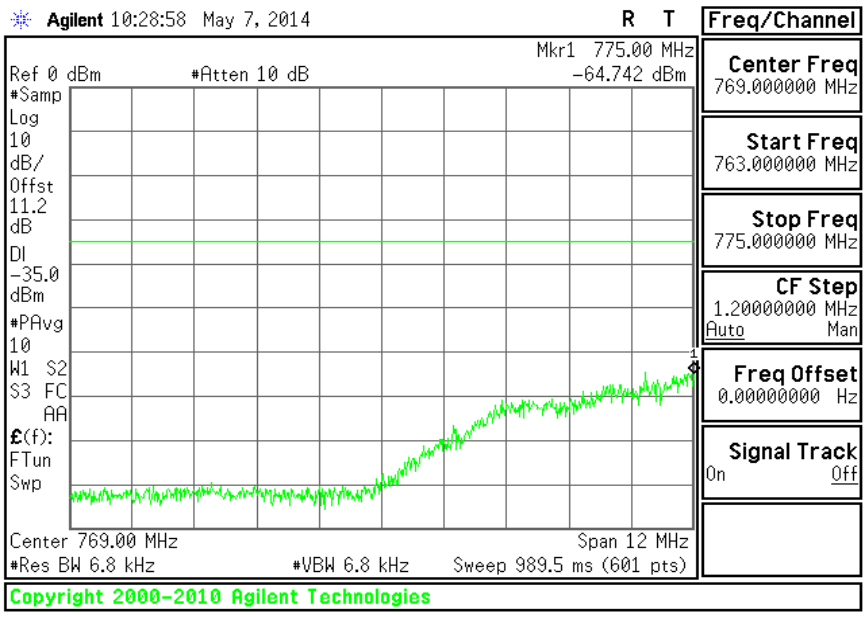
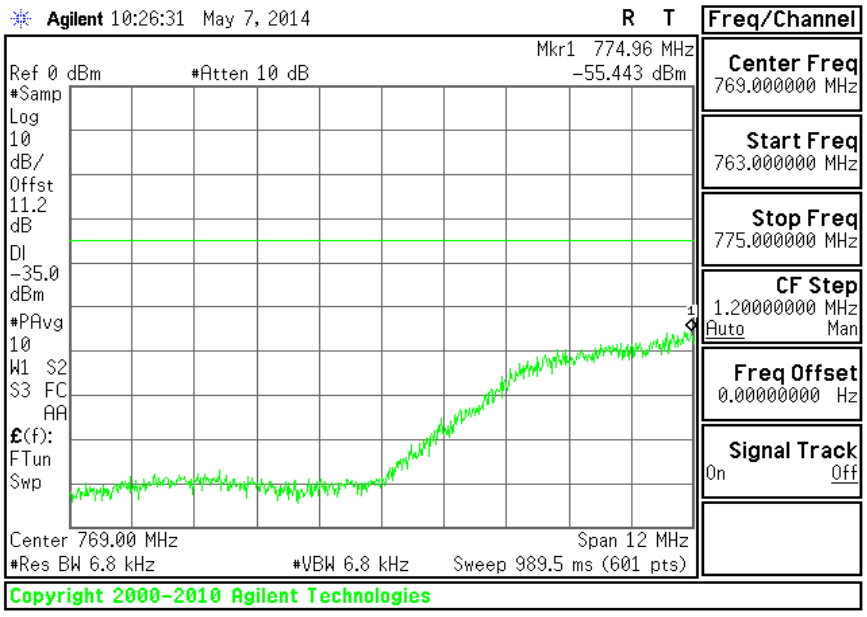
RB12-6



RB25-0



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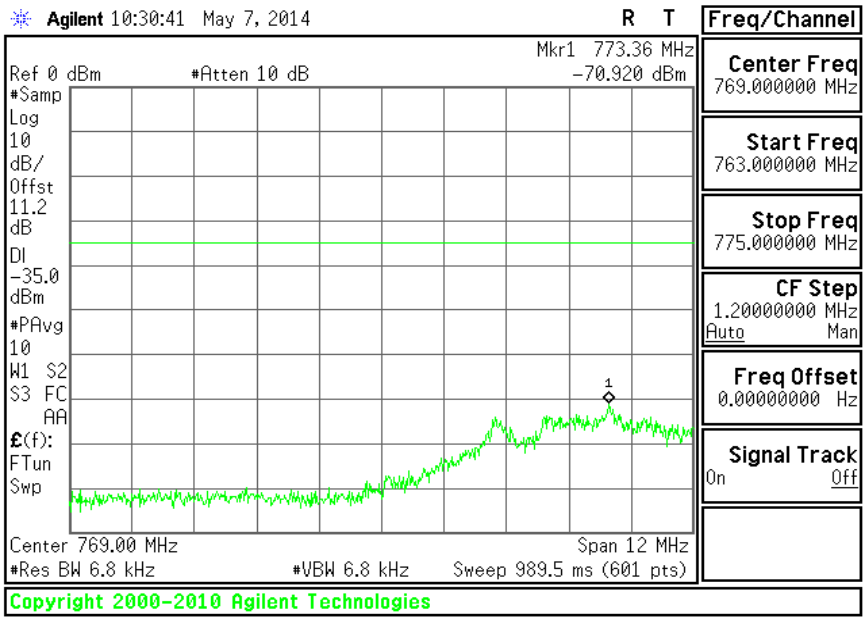
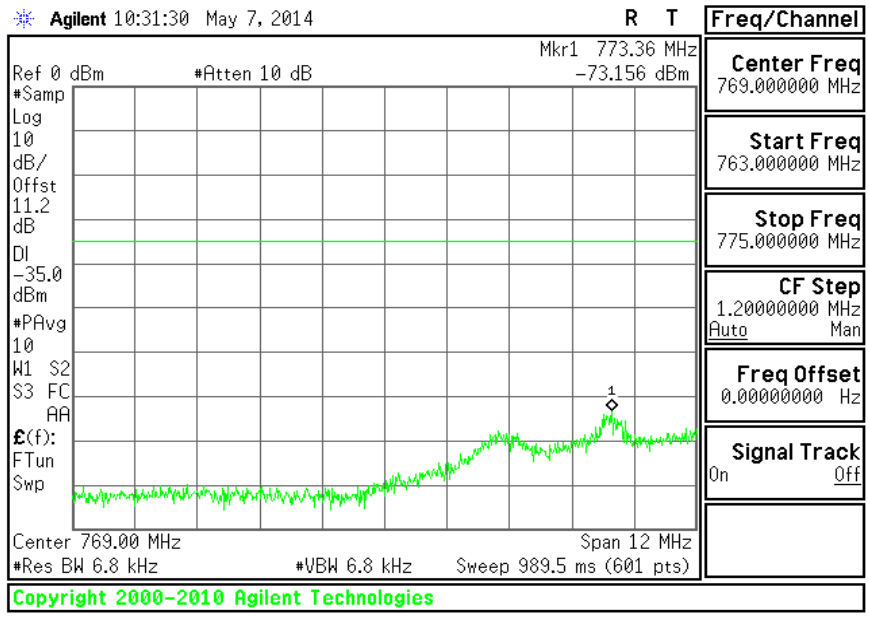
16QAM, 782MHz, 763 - 775MHz, (5MHz Bandwidth)

RB1-0



RB1-24



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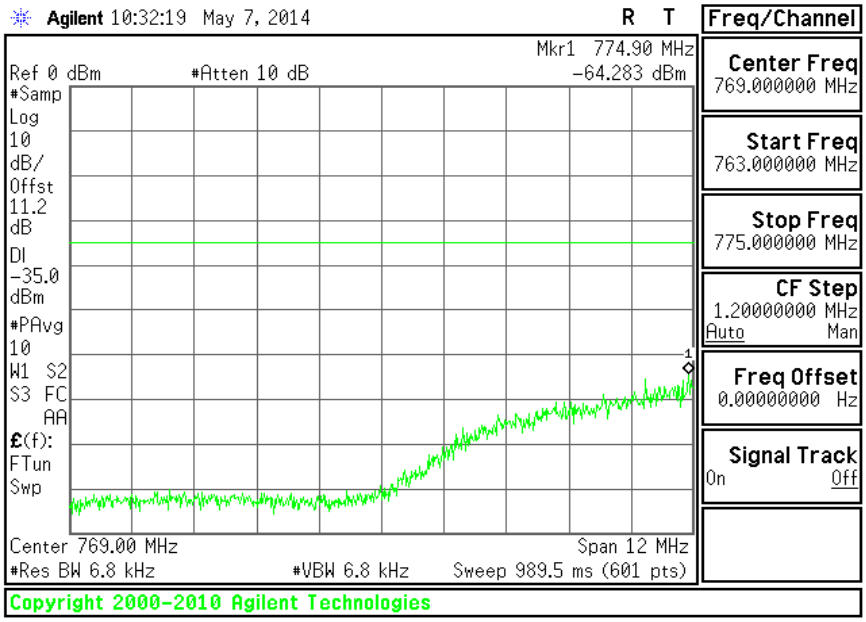
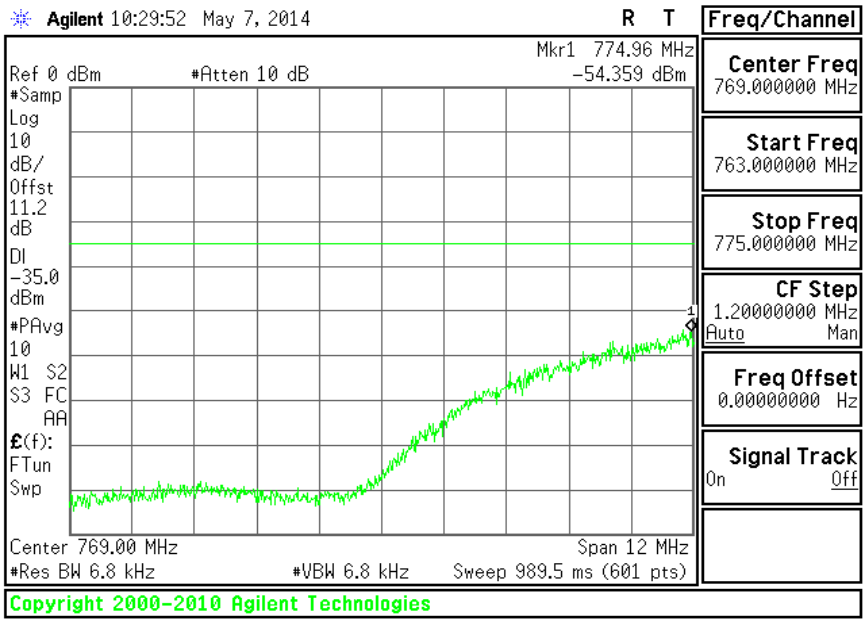
RB12-6



RB25-0



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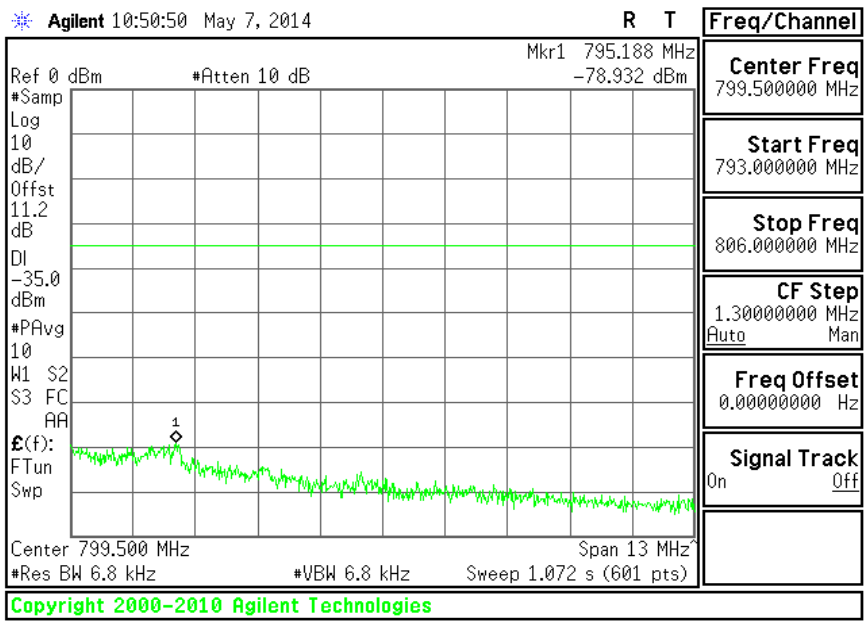
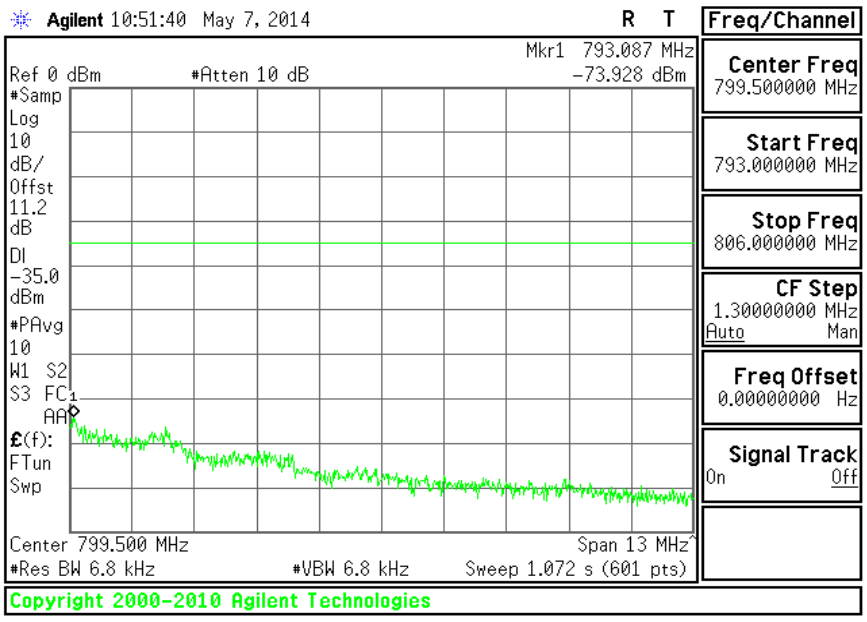
QPSK, 782MHz, 793 - 806MHz, (5MHz Bandwidth)

RB1-0



RB1-24



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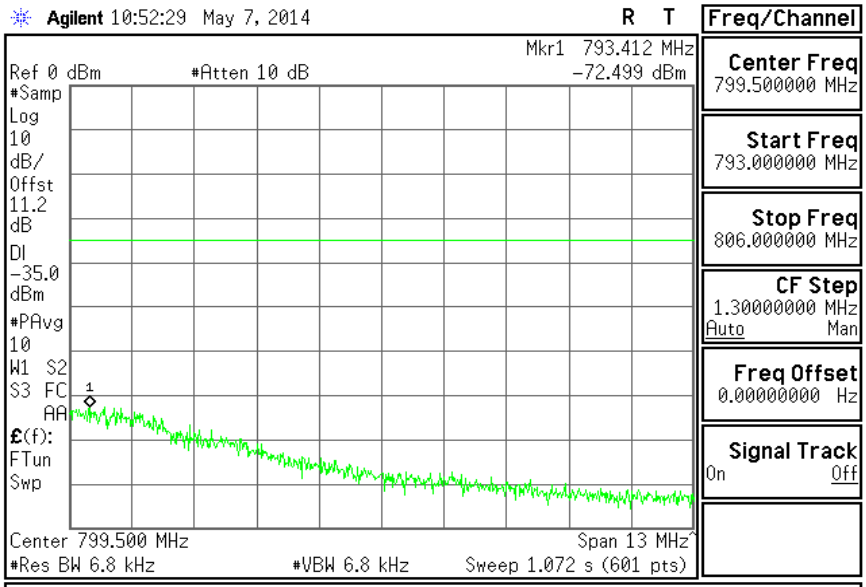
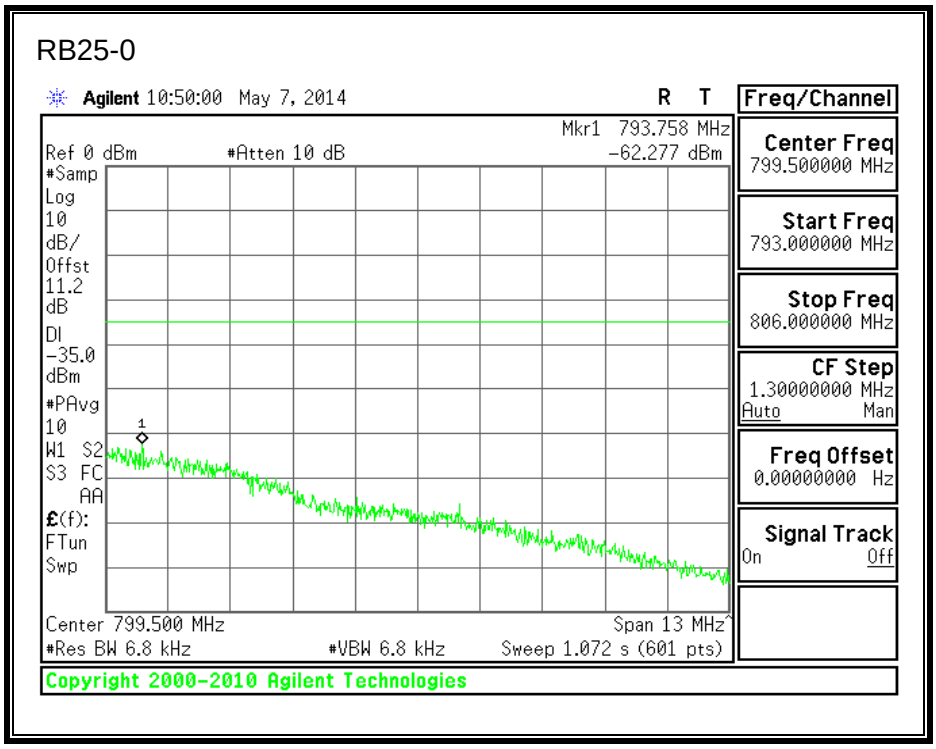
RB12-6



RB25-0



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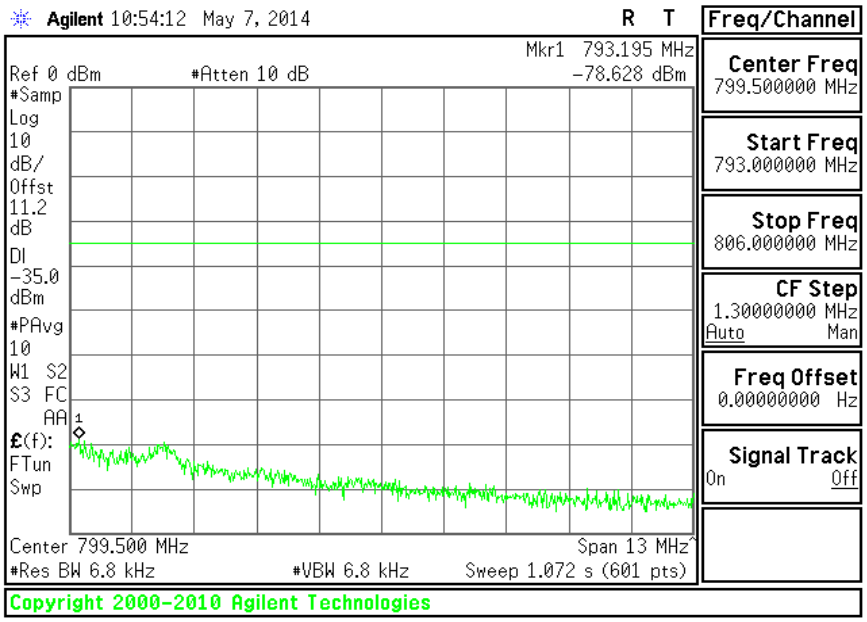
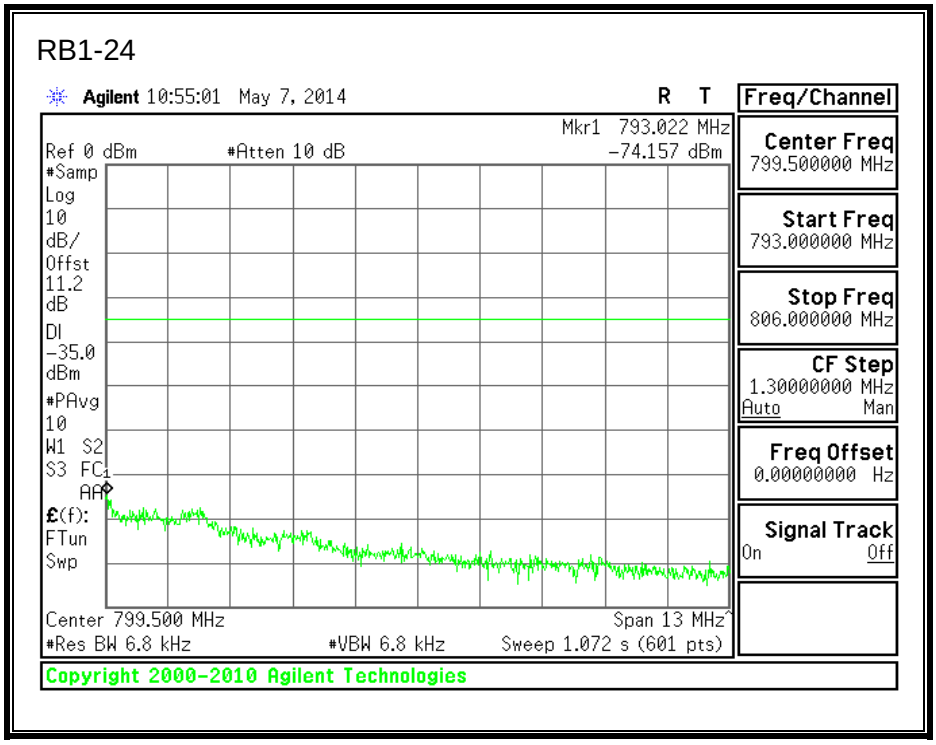
16QAM, 782MHz, 793 - 806MHz, (5MHz Bandwidth)

RB1-0



RB1-24



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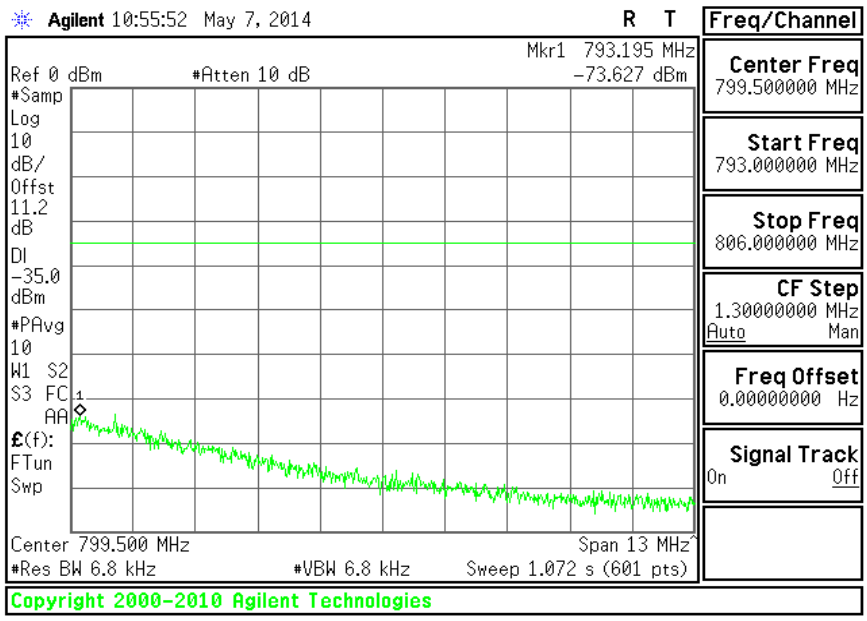
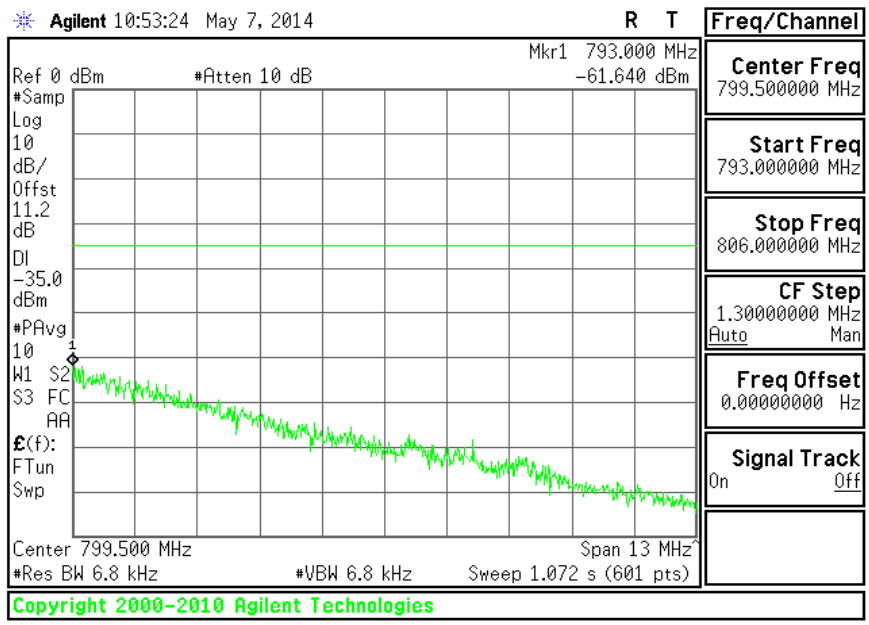
RB12-6



RB25-0



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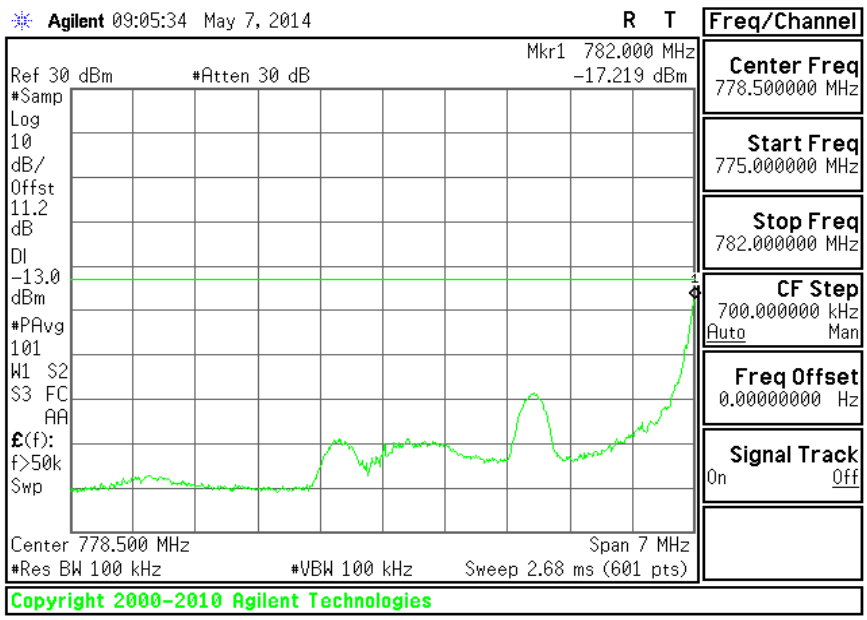
QPSK, 784.5MHz, 775 - 782MHz, (5MHz Bandwidth)

RB1-0



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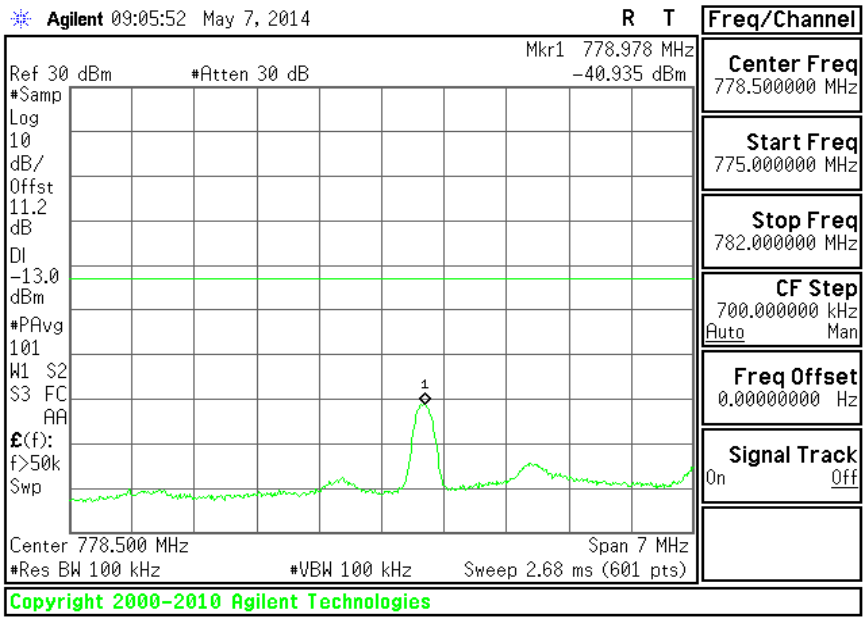

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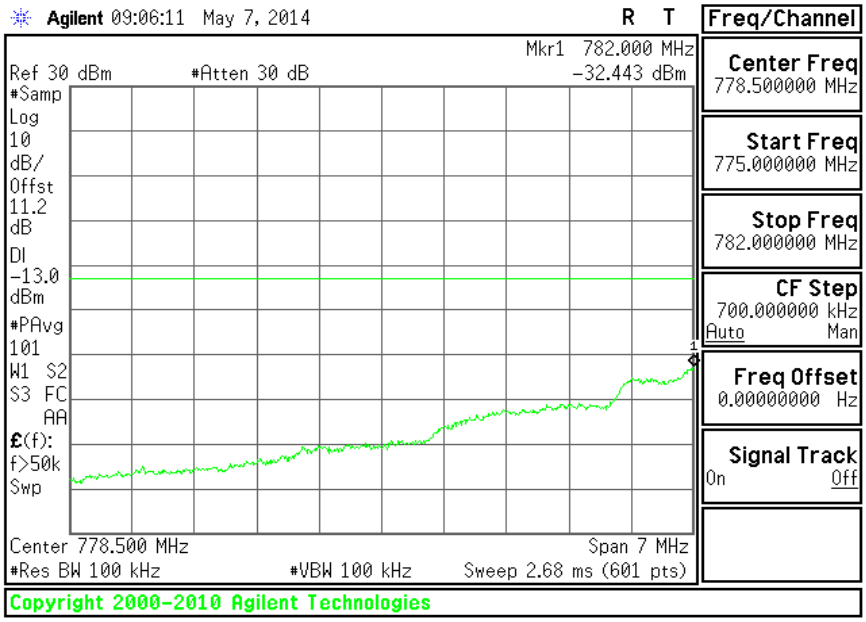
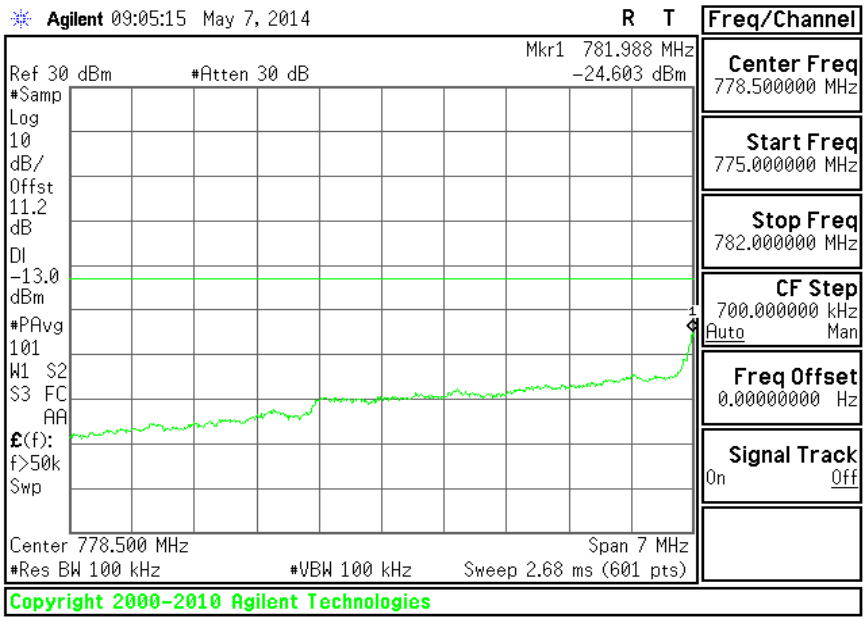
RB12-6



RB25-0



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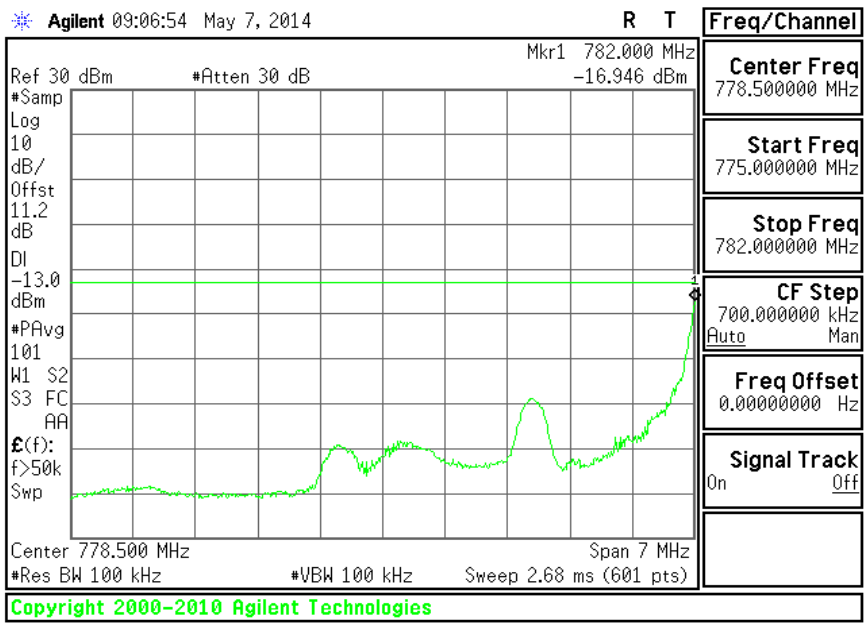
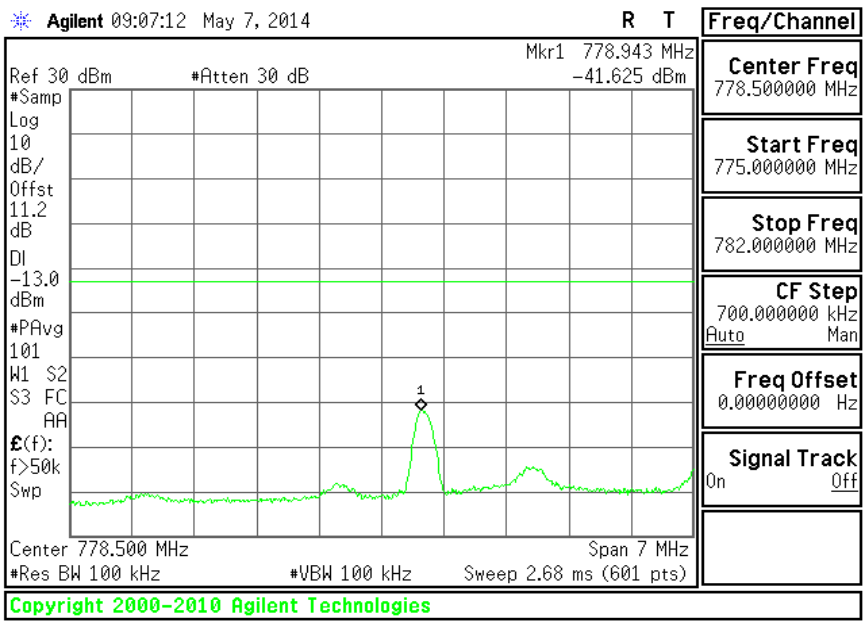
16QAM, 784.5MHz, 775 - 782MHz, (5MHz Bandwidth)

RB1-0



RB1-24



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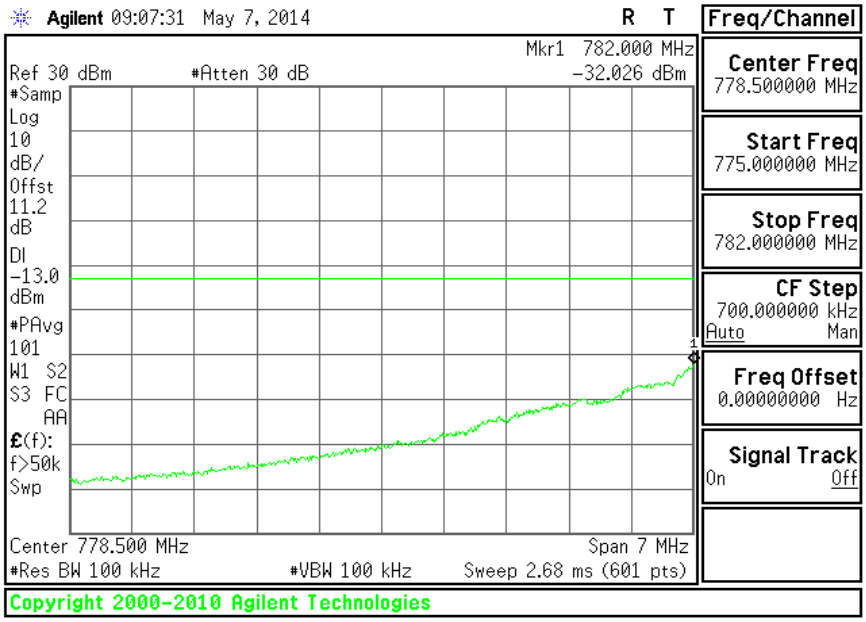
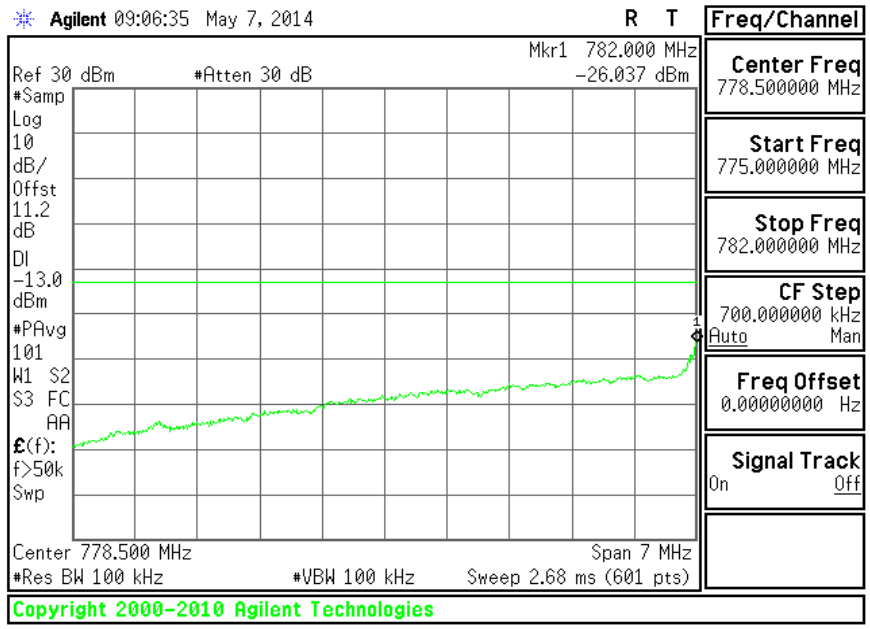
RB12-6



RB25-0



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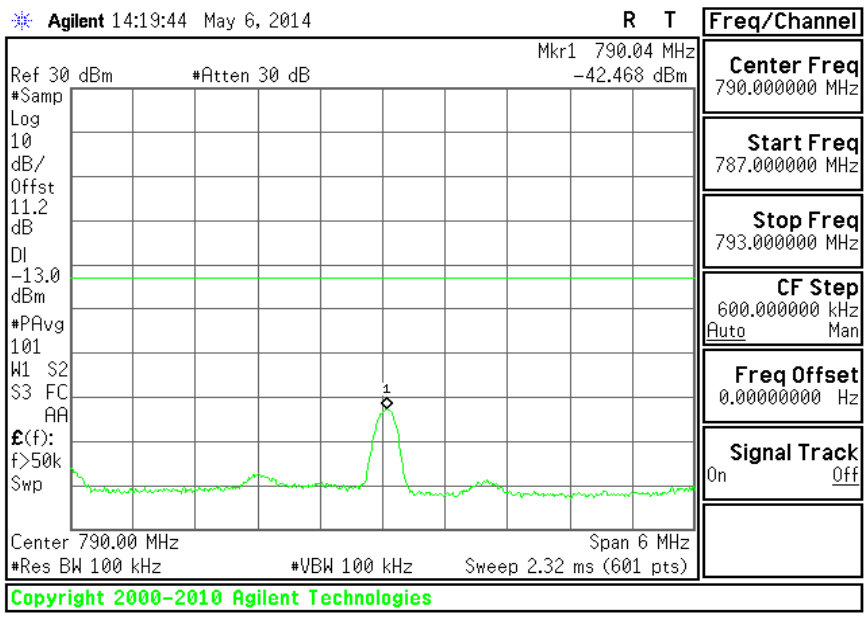
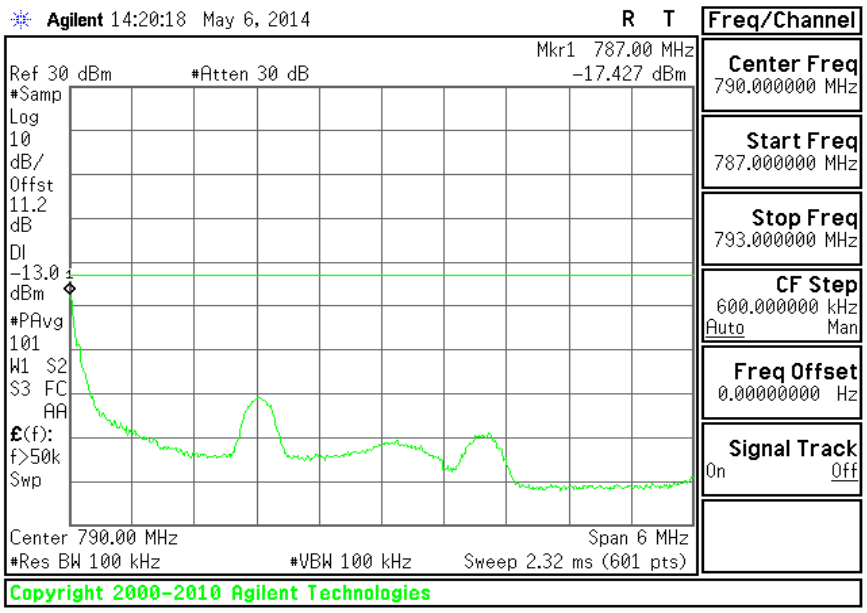
QPSK, 784.5MHz, 787 - 793MHz, (5MHz Bandwidth)

RB1-0



RB1-24



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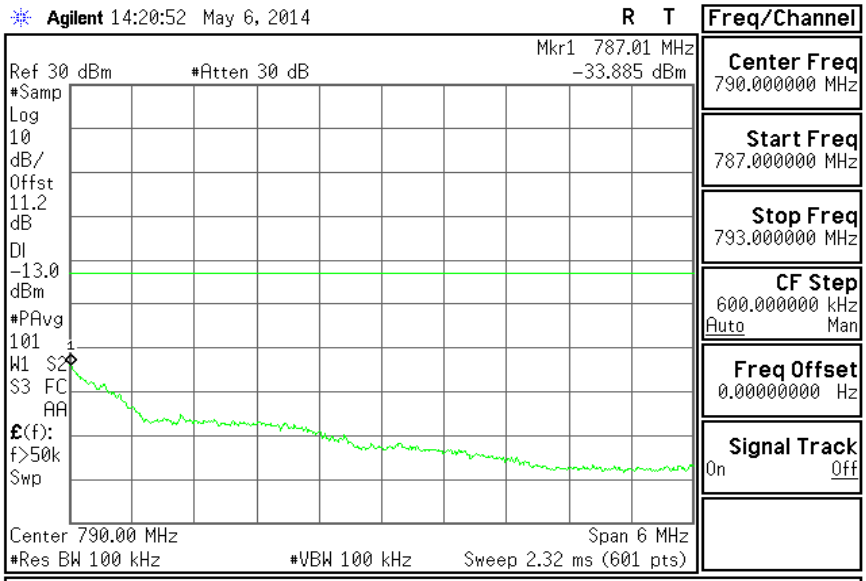
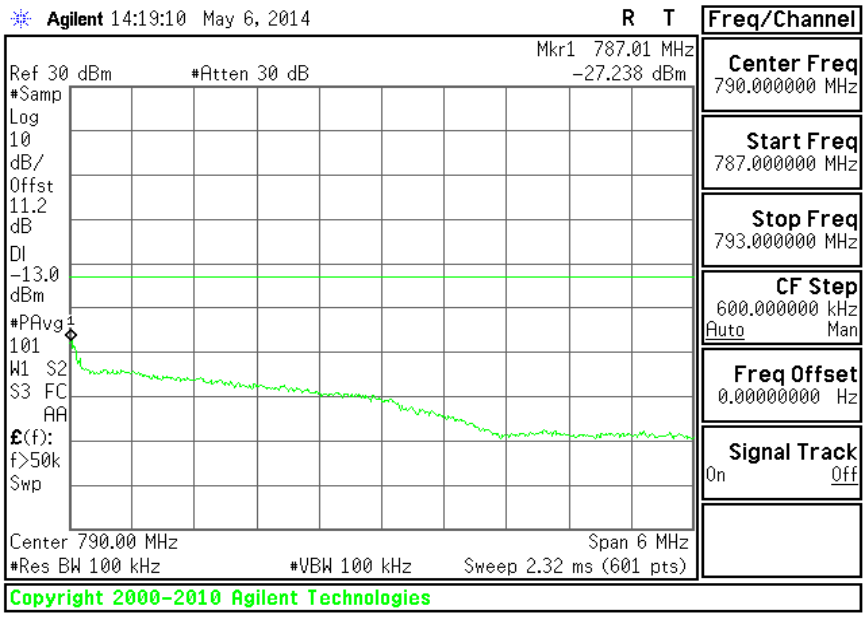
RB12-6



RB25-0



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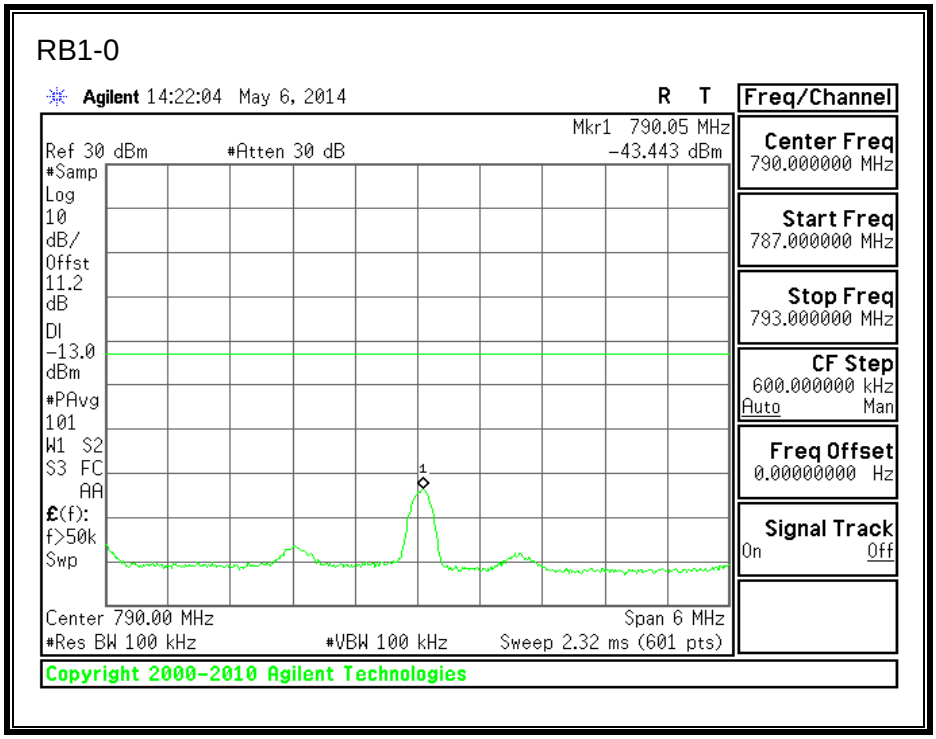
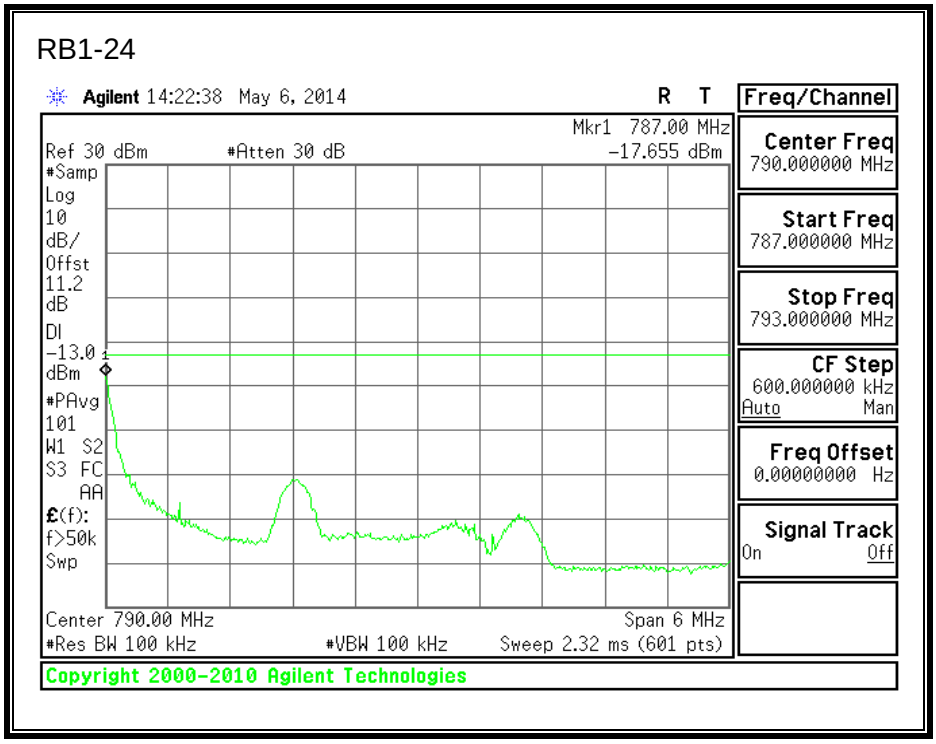
16QAM, 784.5MHz, 787 - 793MHz, (5MHz Bandwidth)





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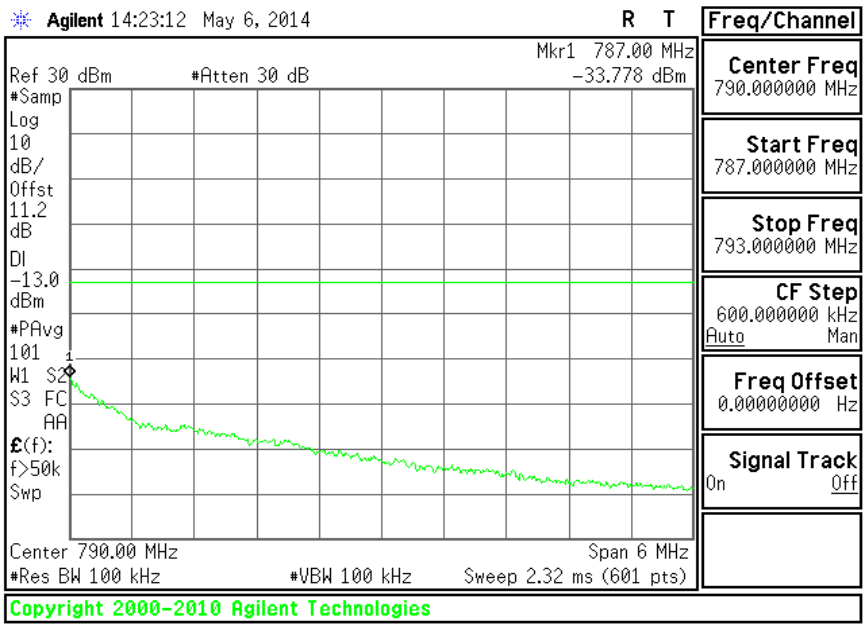
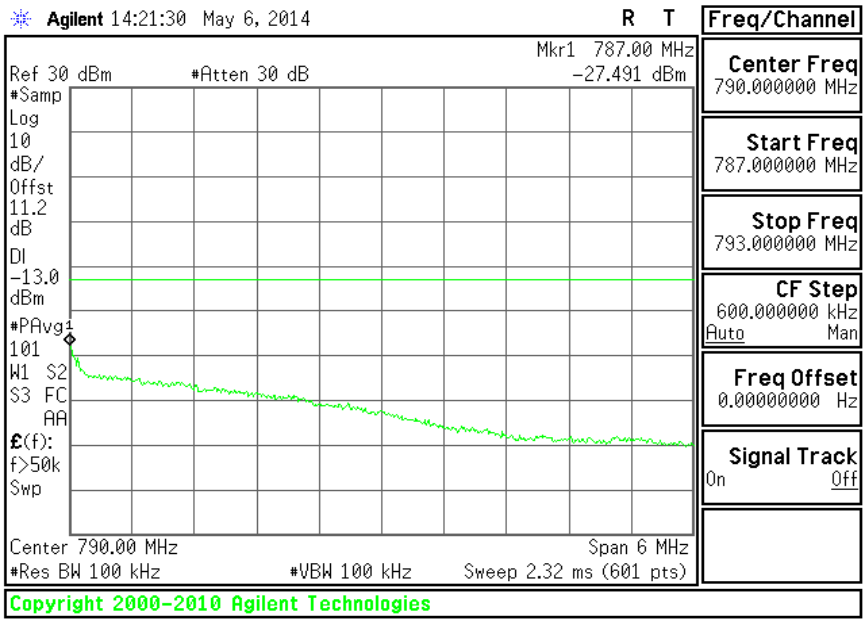
RB12-6



RB25-0



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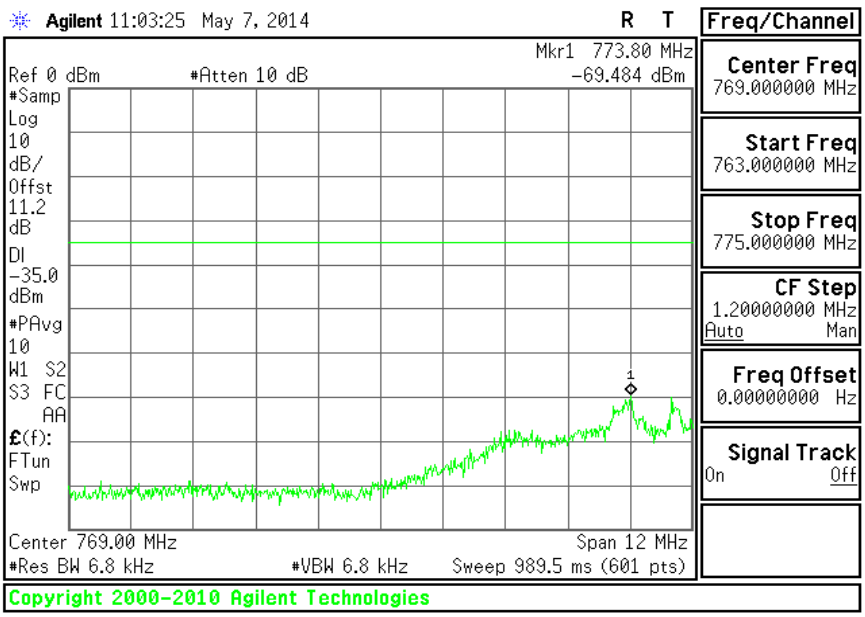
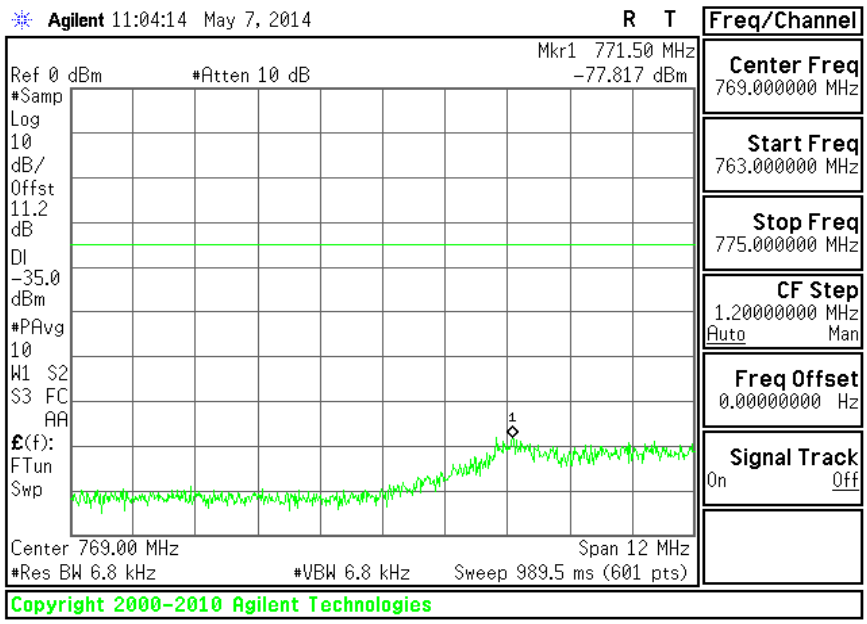
QPSK, 784.5MHz, 763 - 775MHz, (5MHz Bandwidth)

RB1-0



RB1-24



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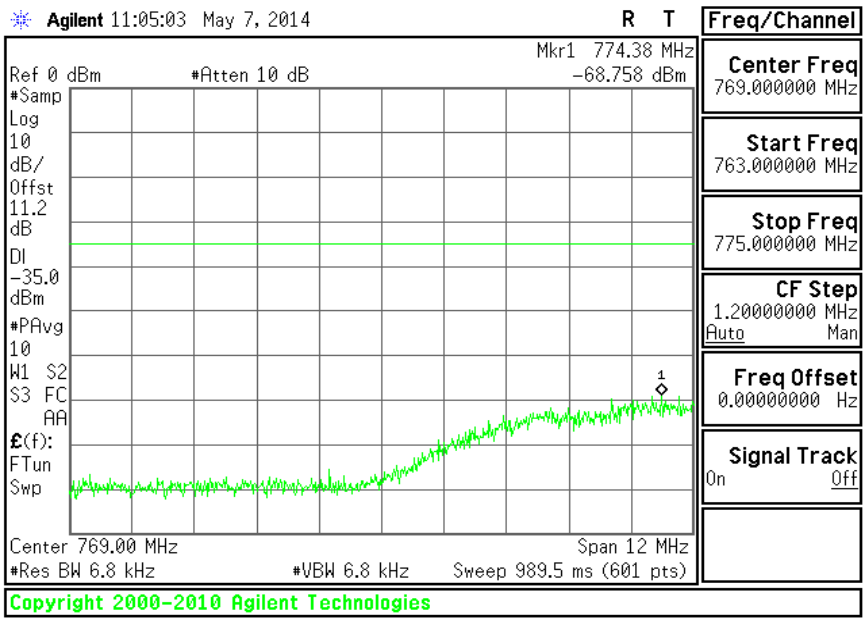
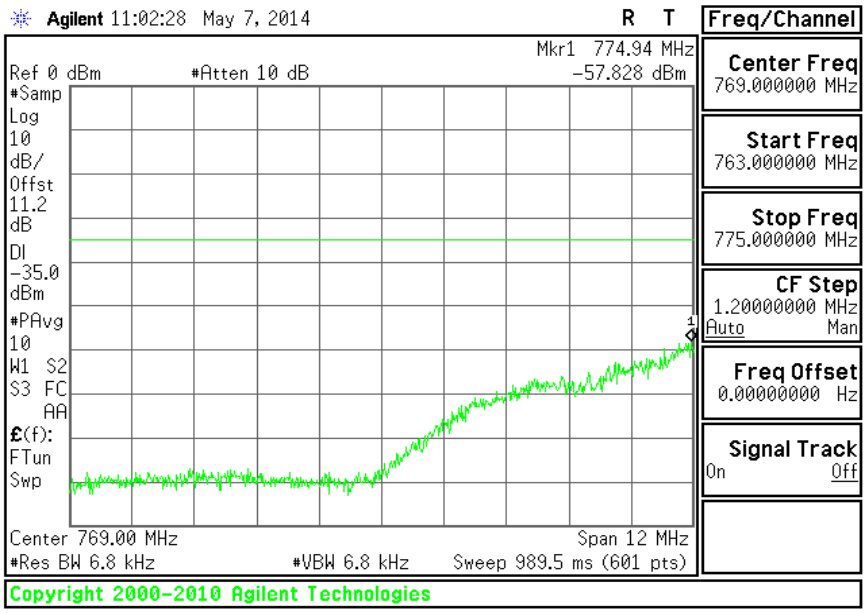
RB12-6



RB25-0



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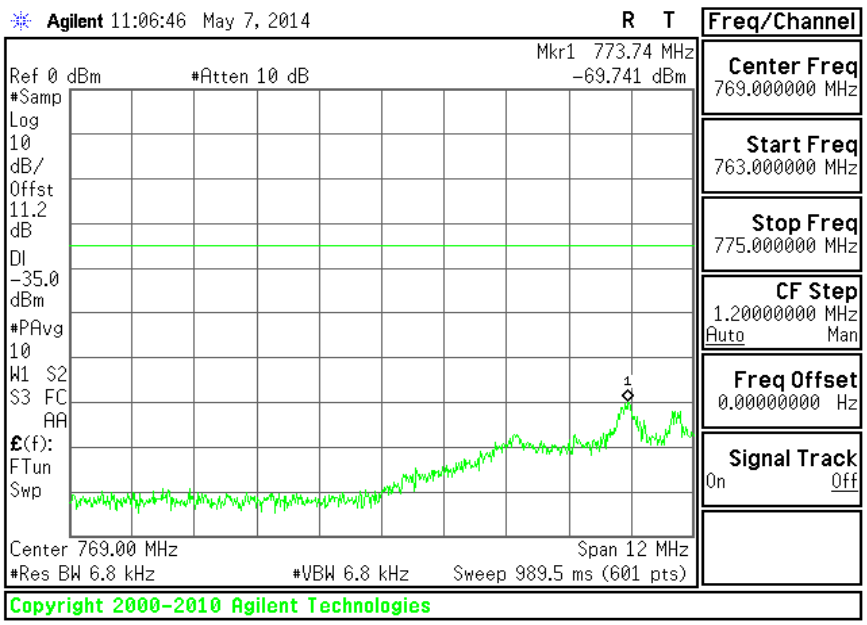
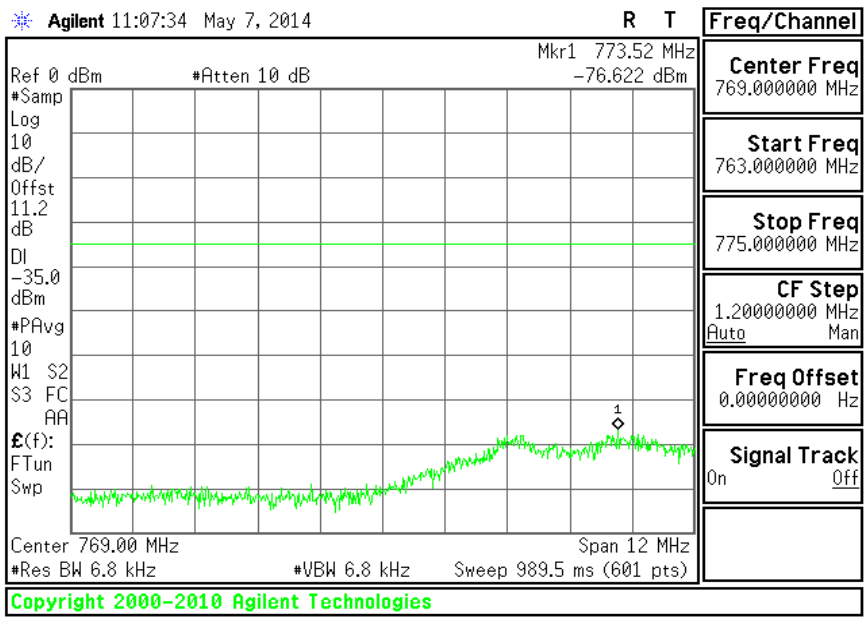
16QAM, 784.5MHz, 763 - 775MHz, (5MHz Bandwidth)

RB1-0



RB1-24



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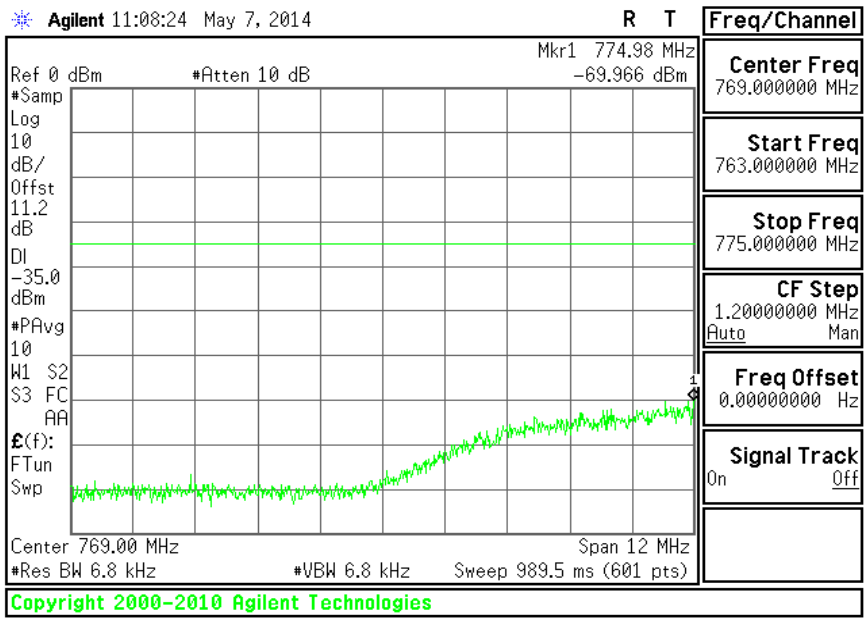
RB12-6



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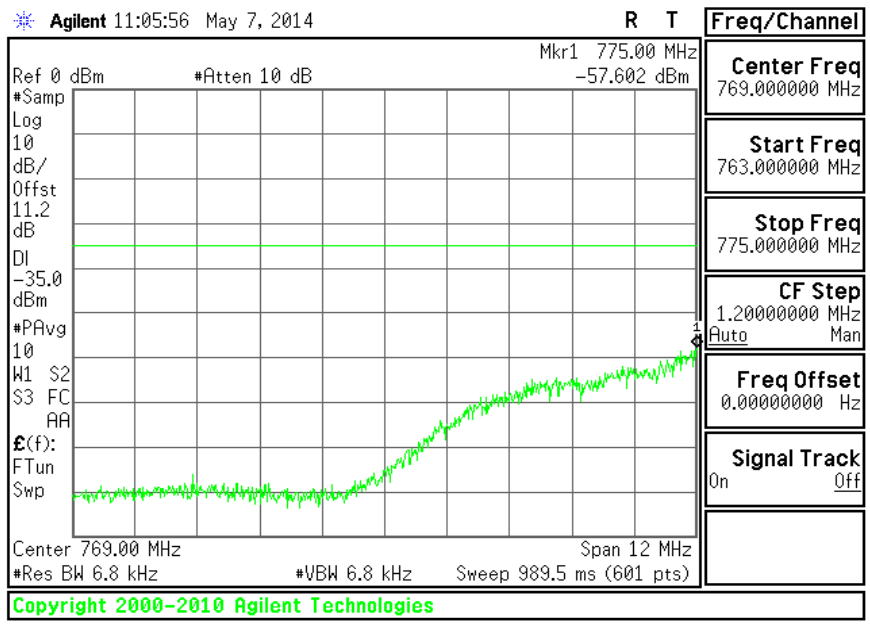

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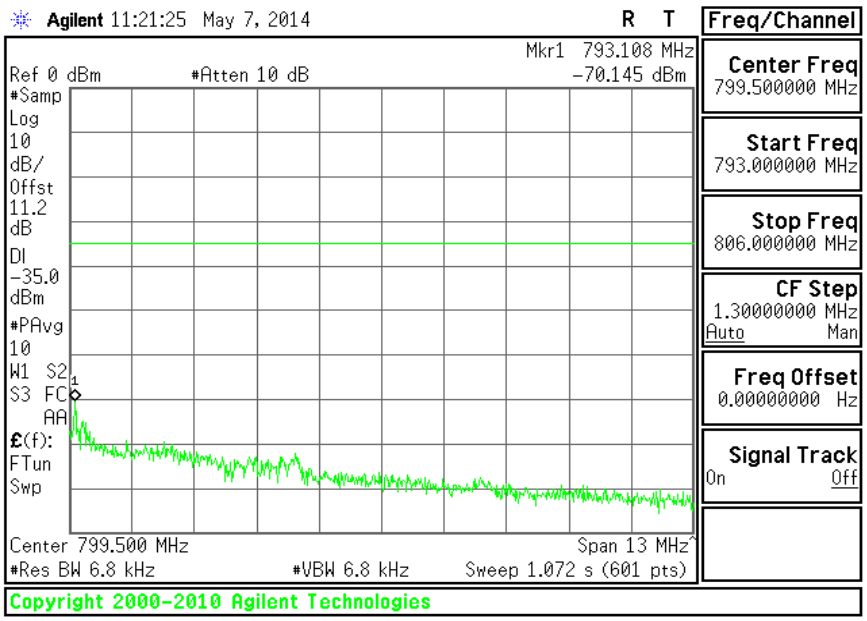
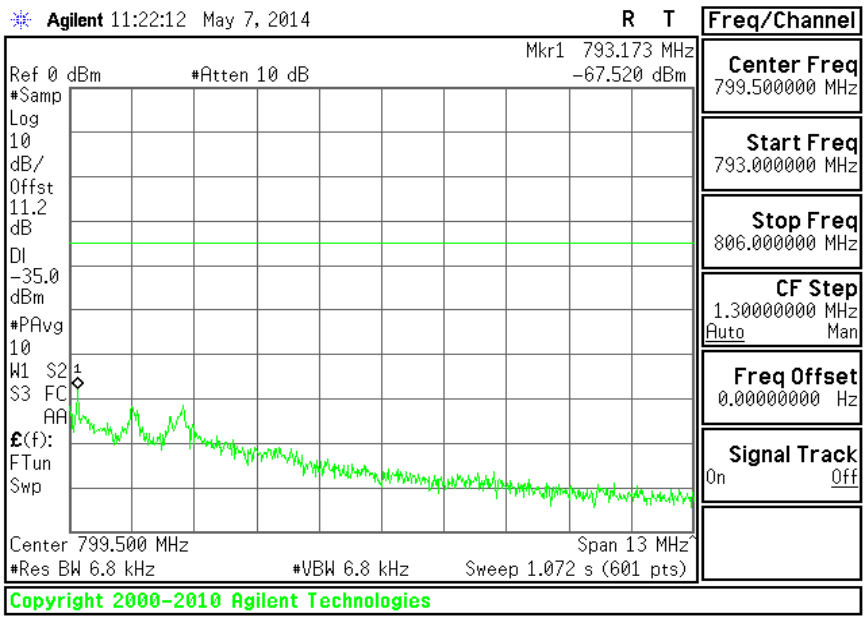
QPSK, 784.5MHz, 793 - 806MHz, (5MHz Bandwidth)

RB1-0



RB1-24



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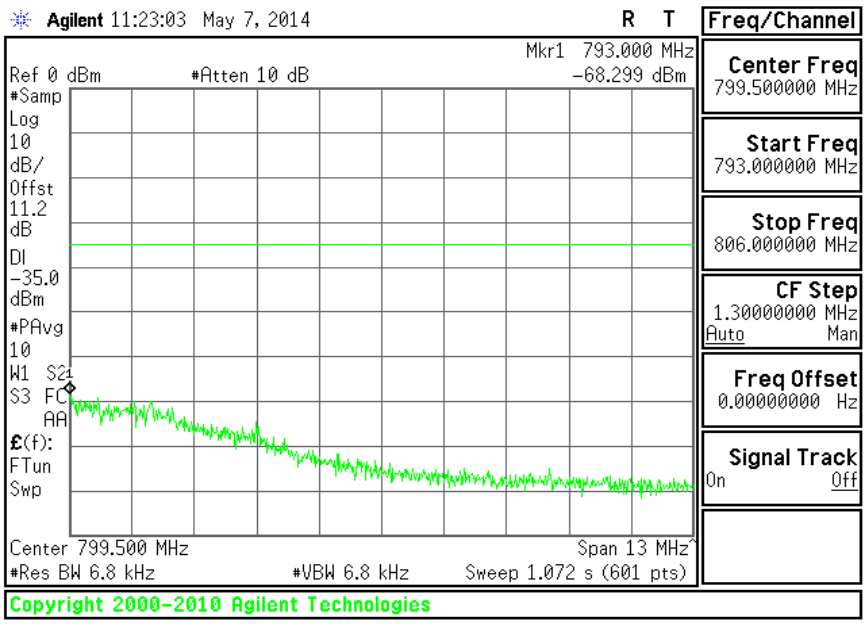
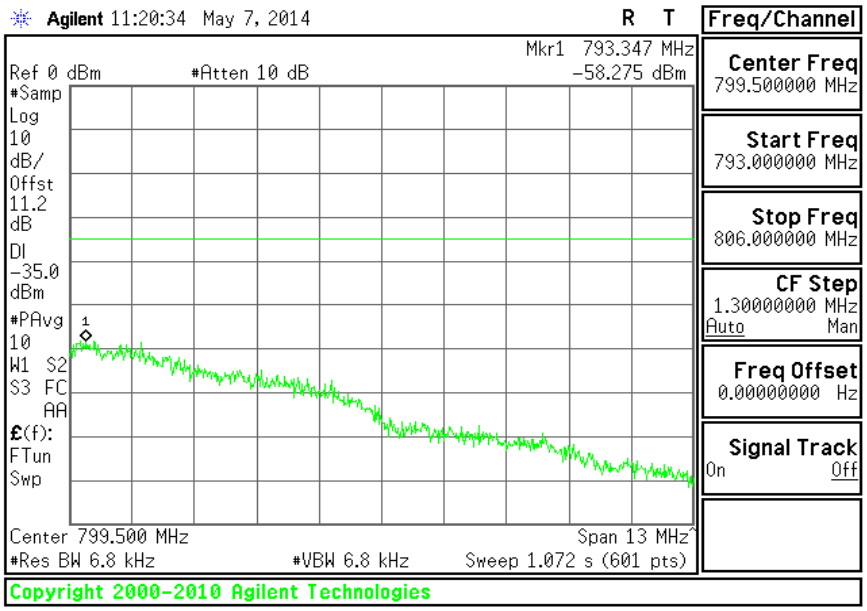
RB12-6



RB25-0



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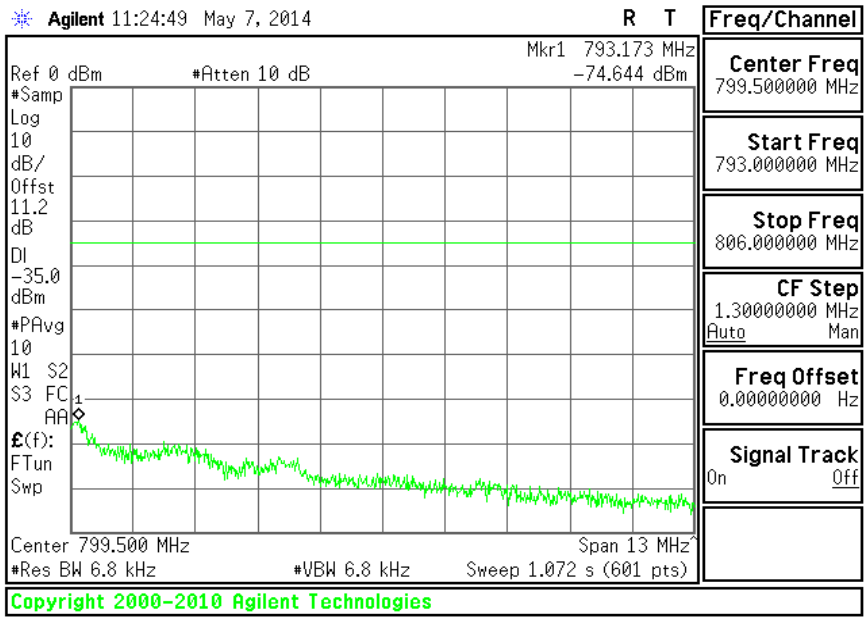
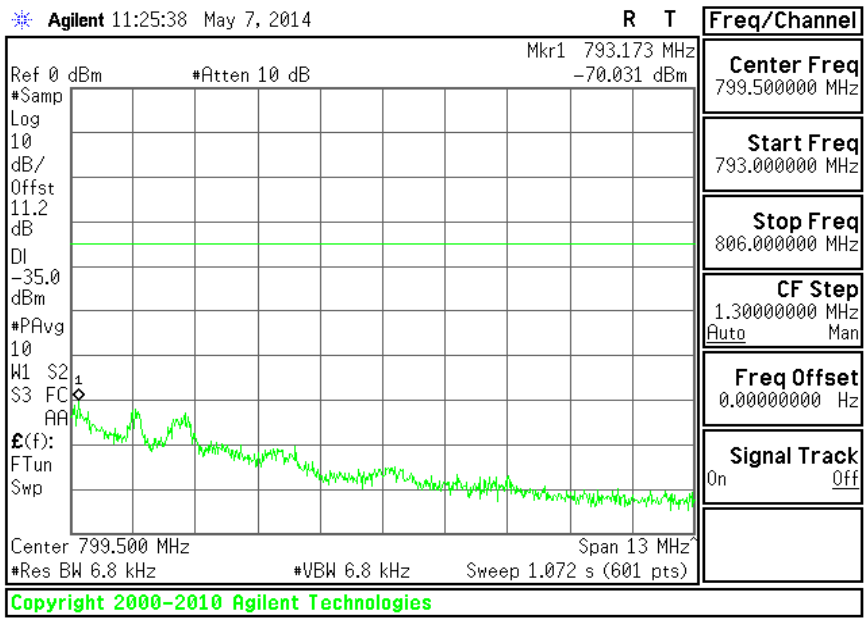
16QAM, 784.5MHz, 793 - 806MHz, (5MHz Bandwidth)

RB1-0



RB1-24



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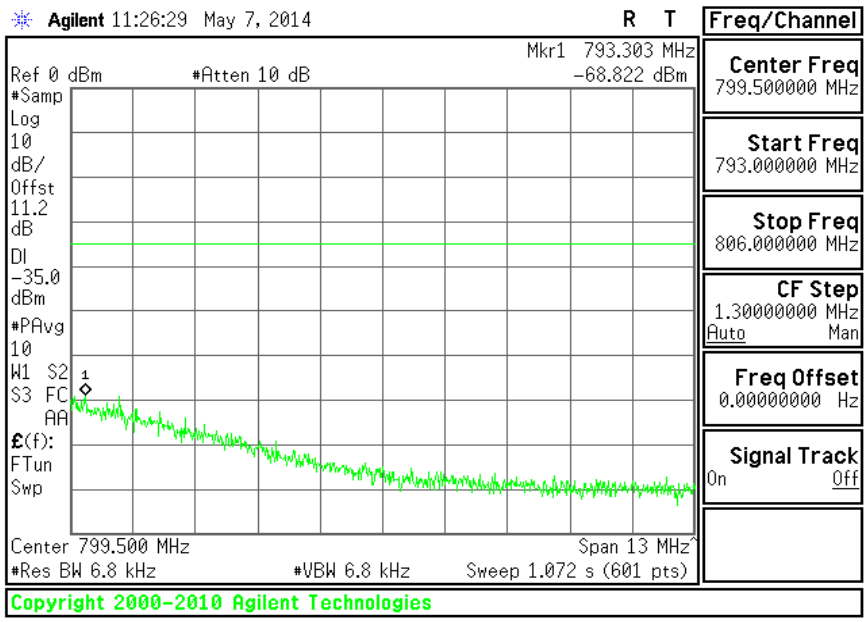
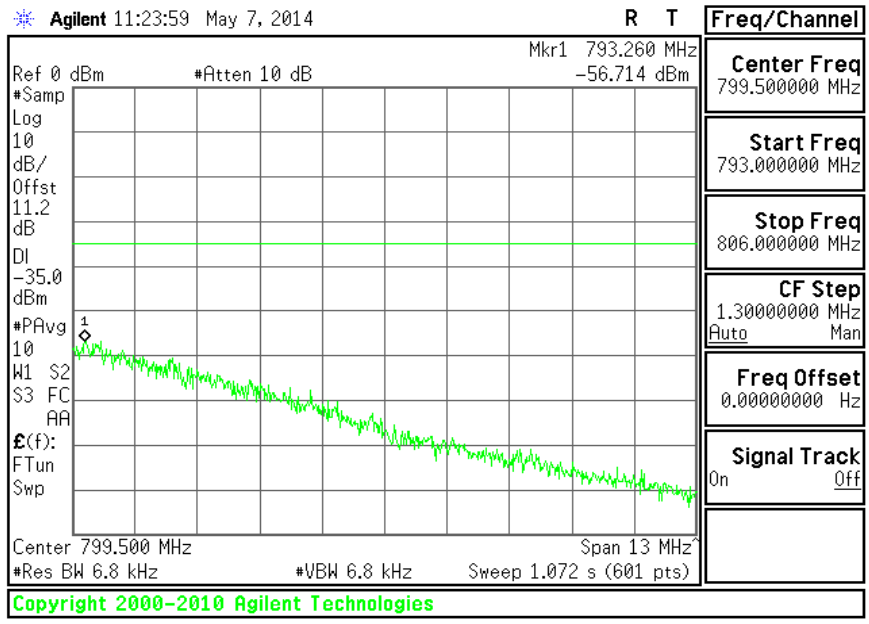
RB12-6



RB25-0



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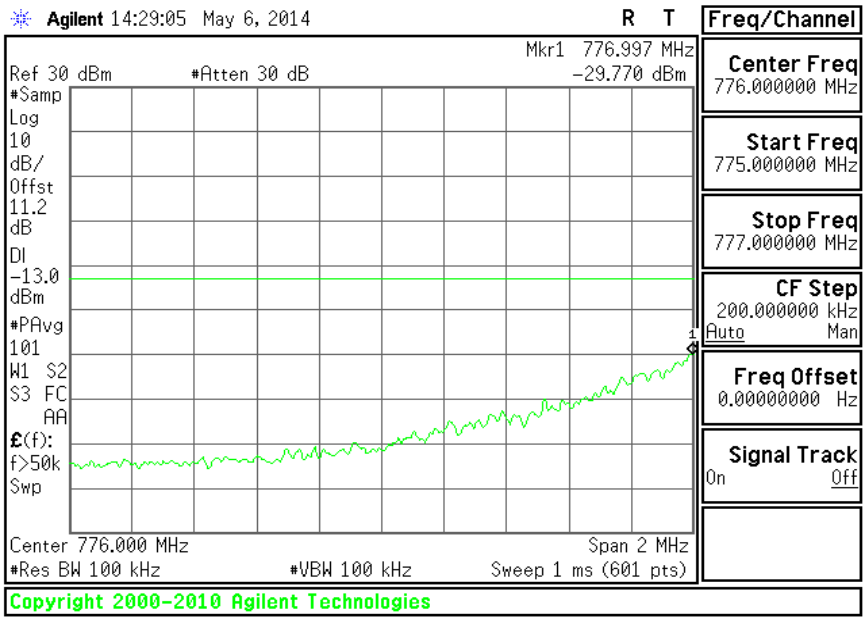
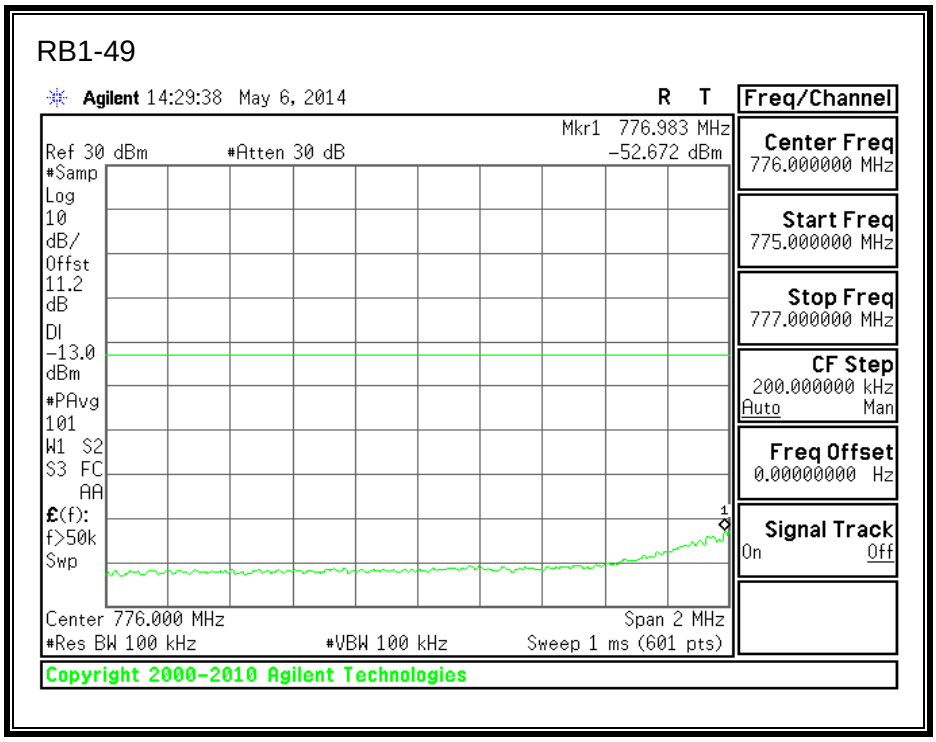
QPSK, 782MHz, 775 - 777MHz, (10MHz Bandwidth)

RB1-0



RB1-49



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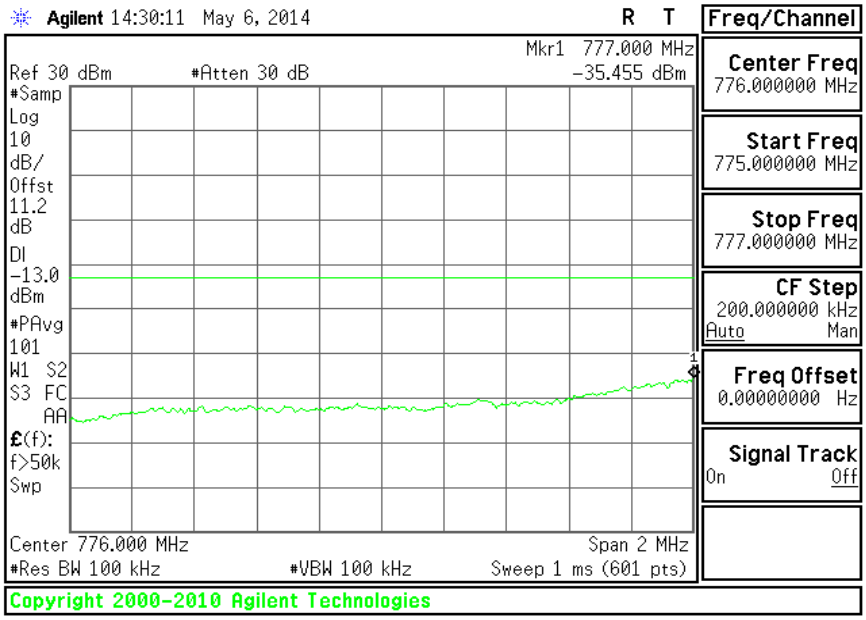
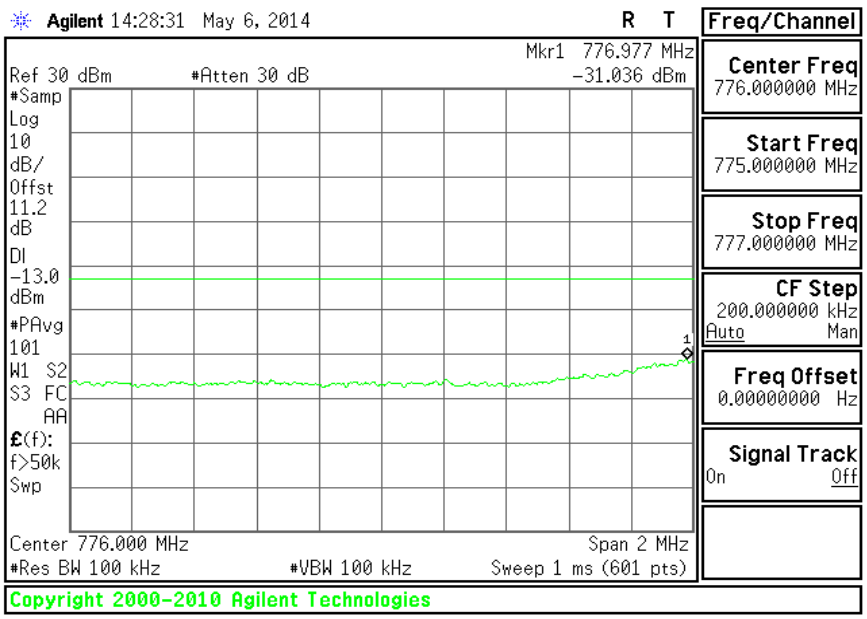
RB25-12



RB50-0



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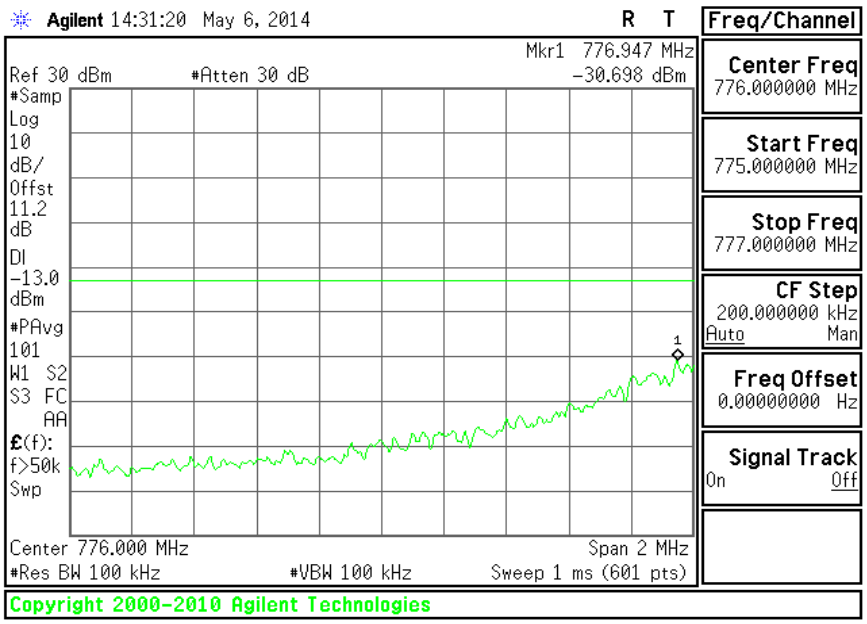
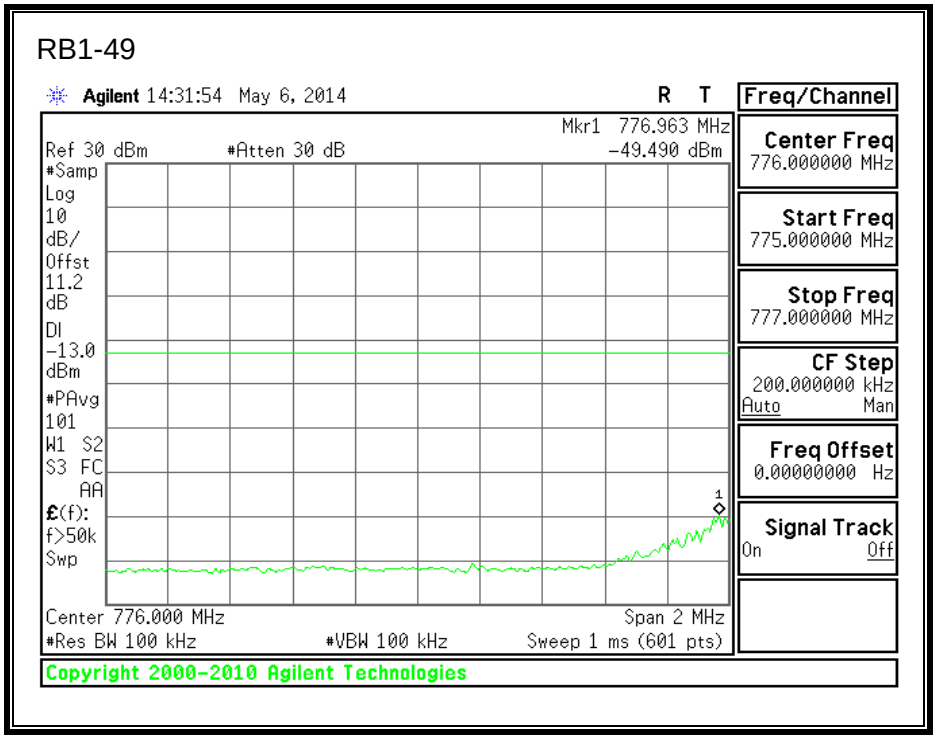
16QAM, 782MHz, 775 - 777MHz, (10MHz Bandwidth)

RB1-0



RB1-49



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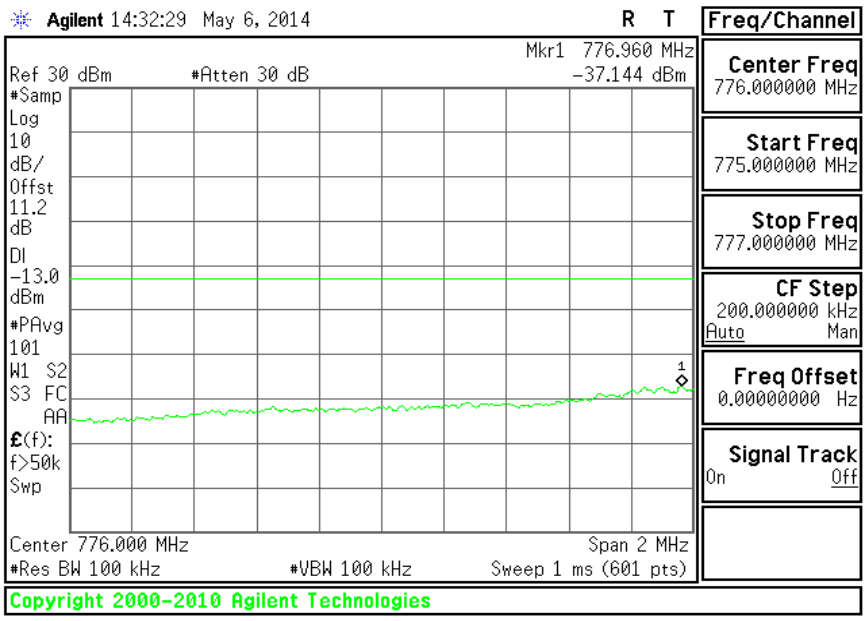
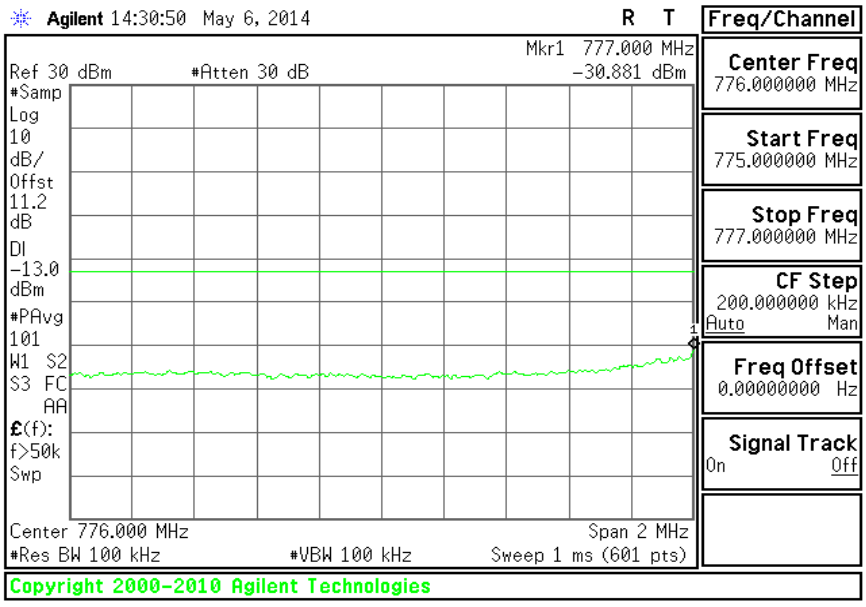
RB25-12



RB50-0



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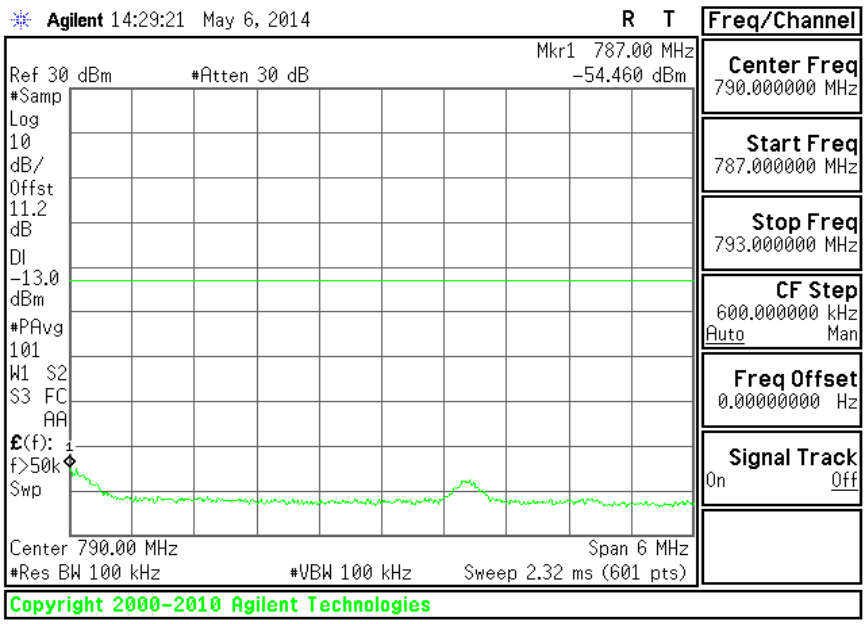
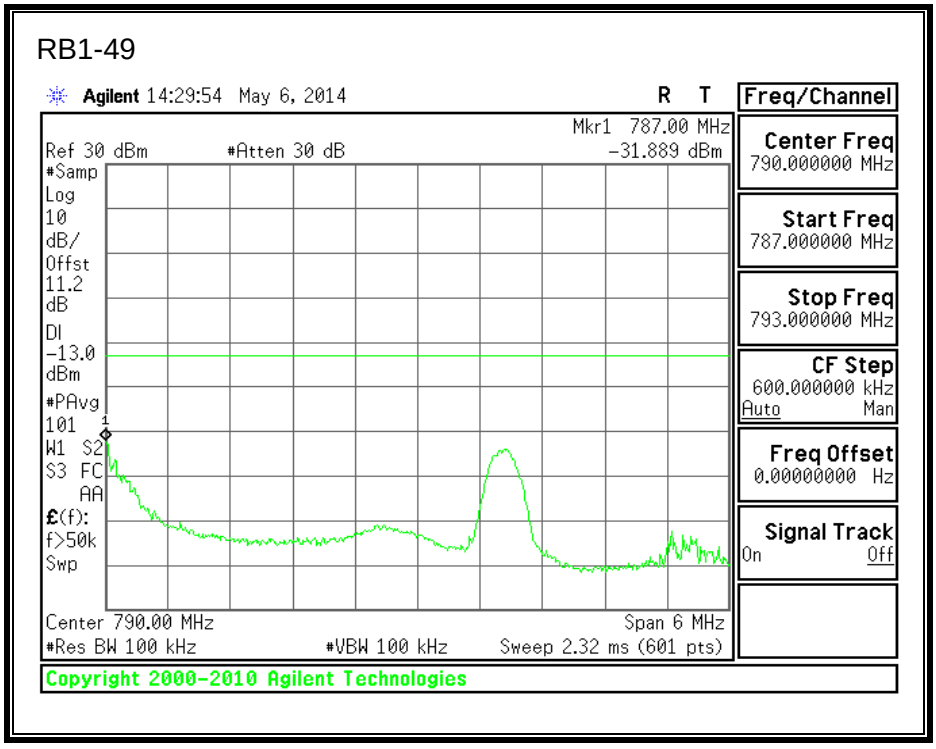
QPSK, 782MHz, 787 - 793MHz, (10MHz Bandwidth)

RB1-0



RB1-49



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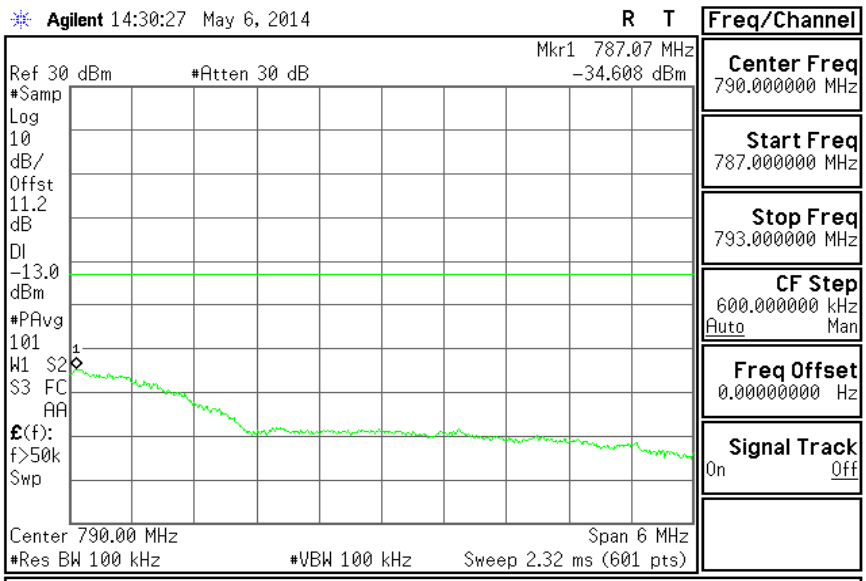
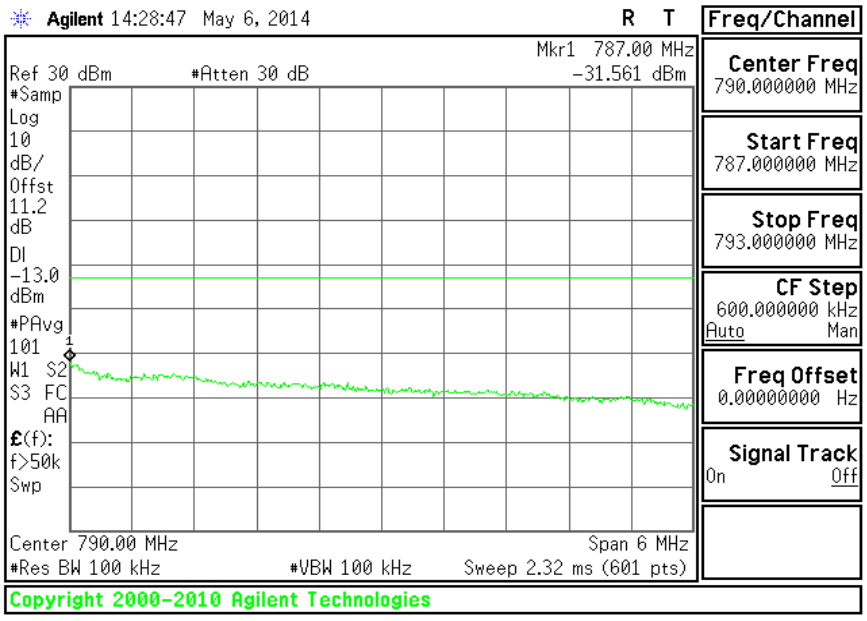
RB25-12



RB50-0



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47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 771-1000 FAX: (510) 661-0888
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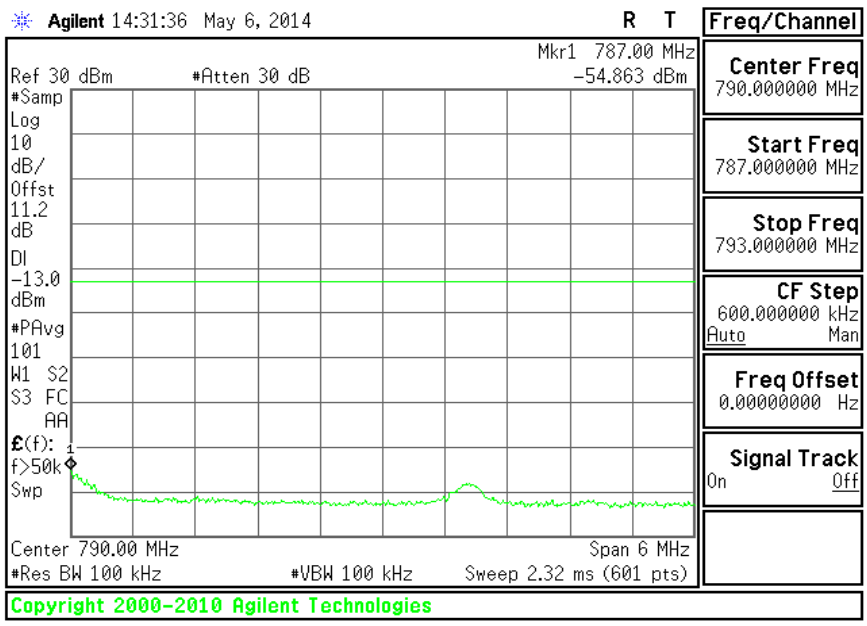
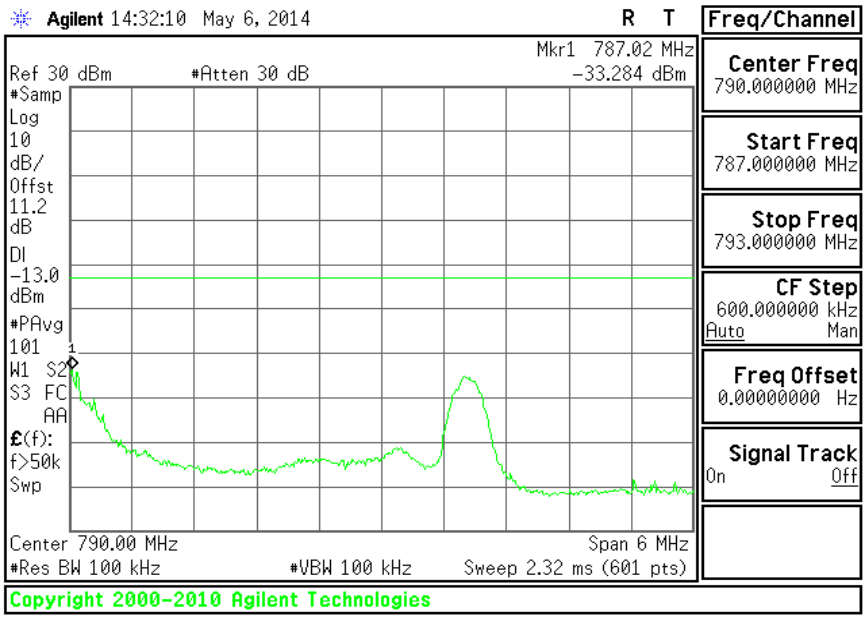
16QAM, 782MHz, 787 - 793MHz, (10MHz Bandwidth)

RB1-0



RB1-49



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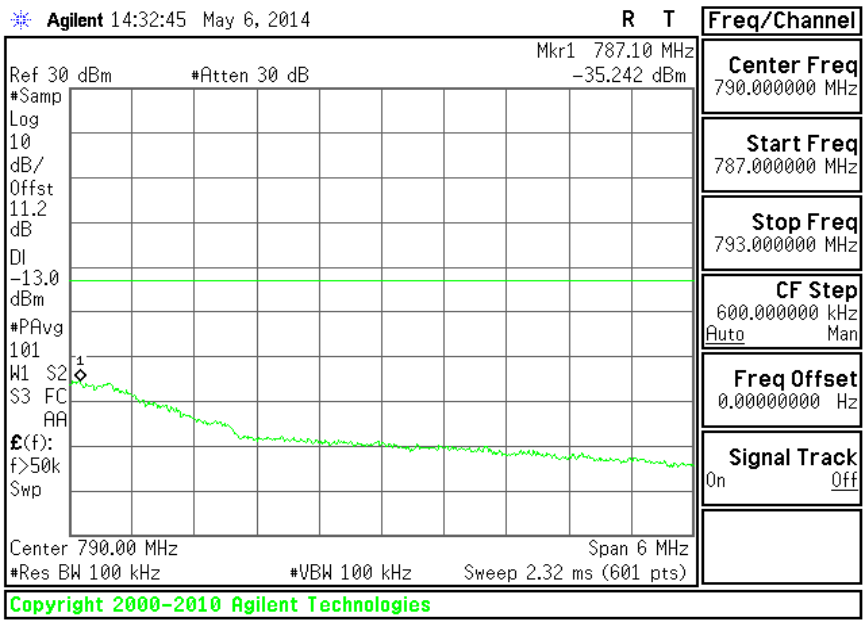
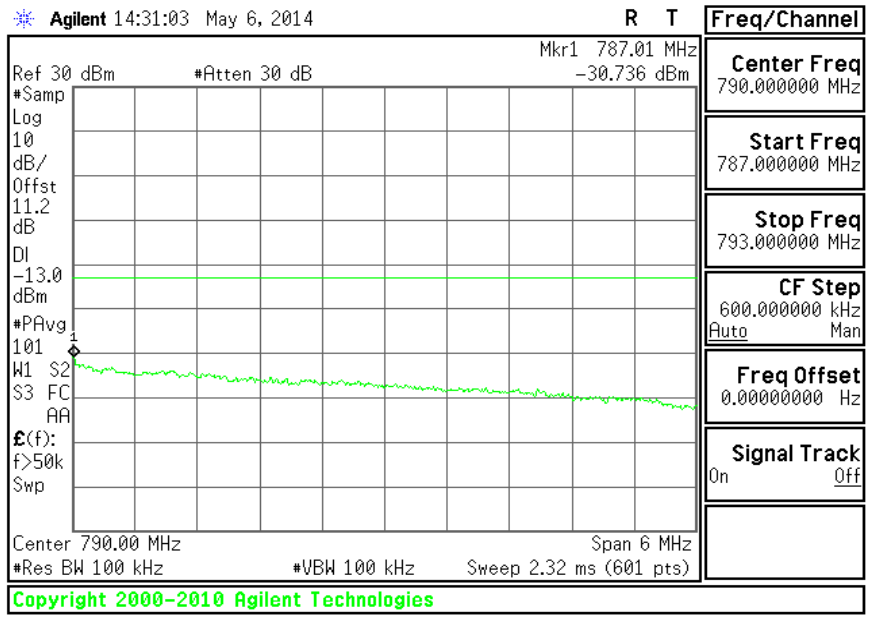
RB25-12



RB50-0



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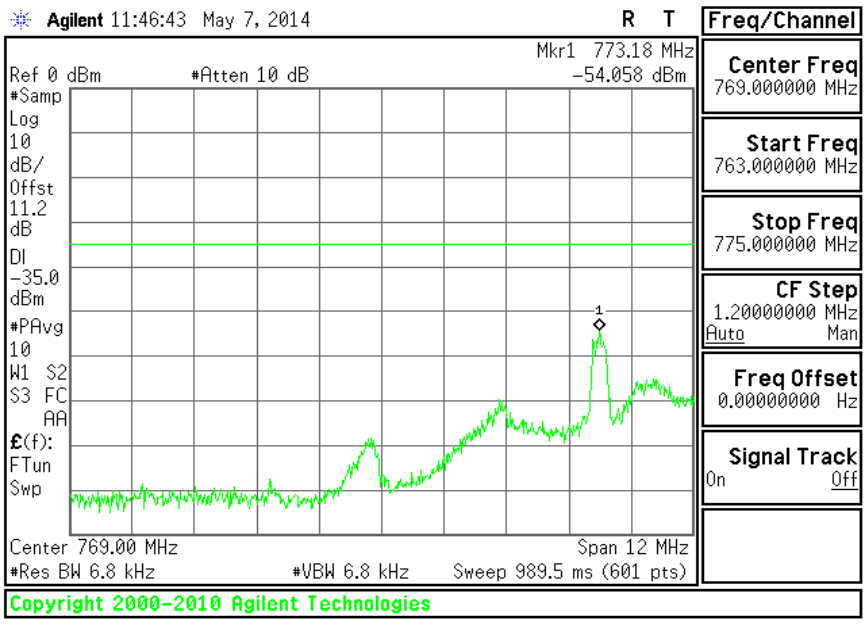
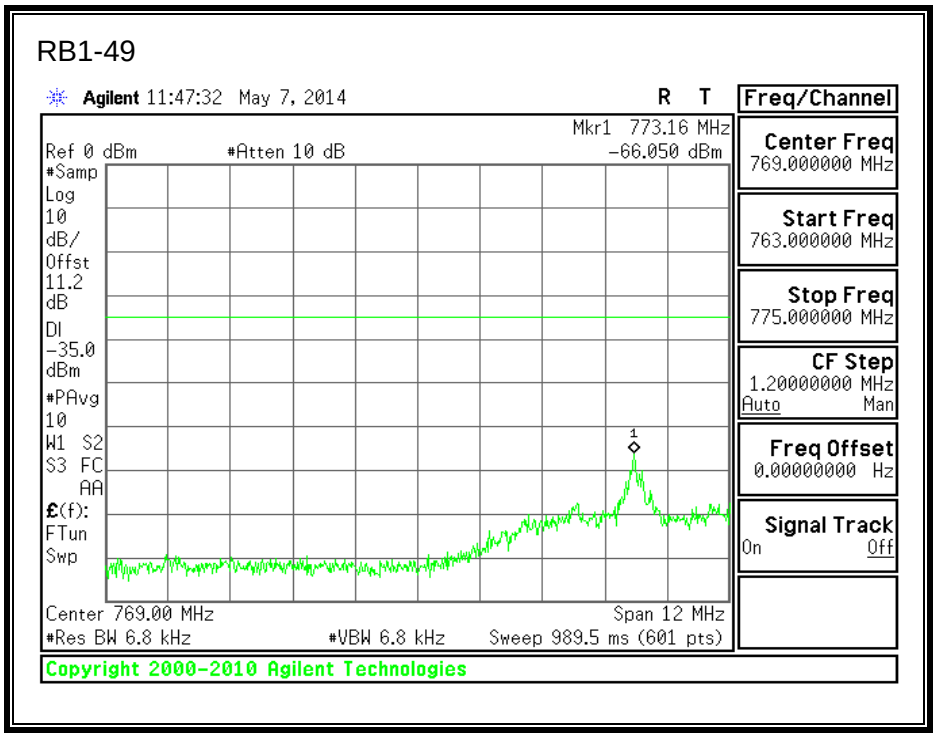
QPSK, 782MHz, 763 - 775MHz, (10MHz Bandwidth)

RB1-0



RB1-49



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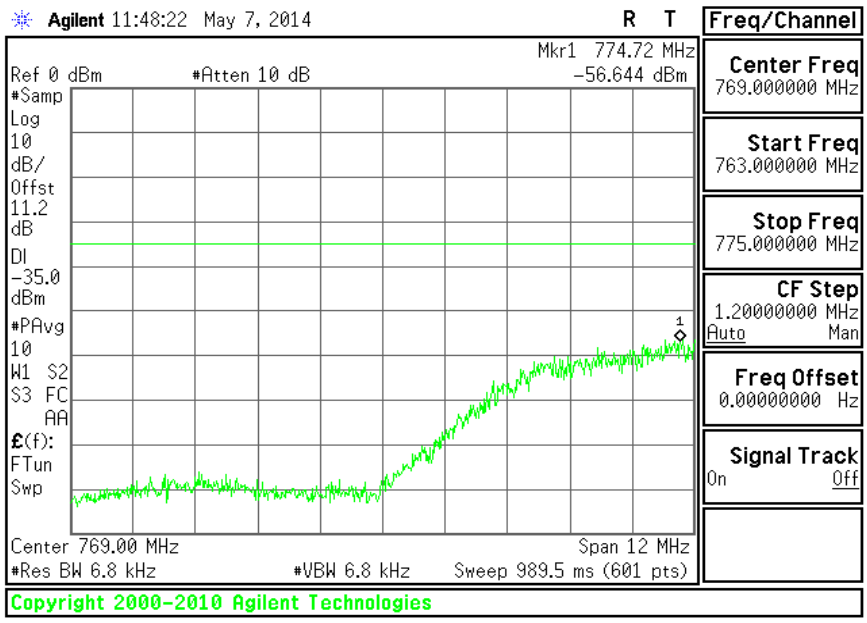
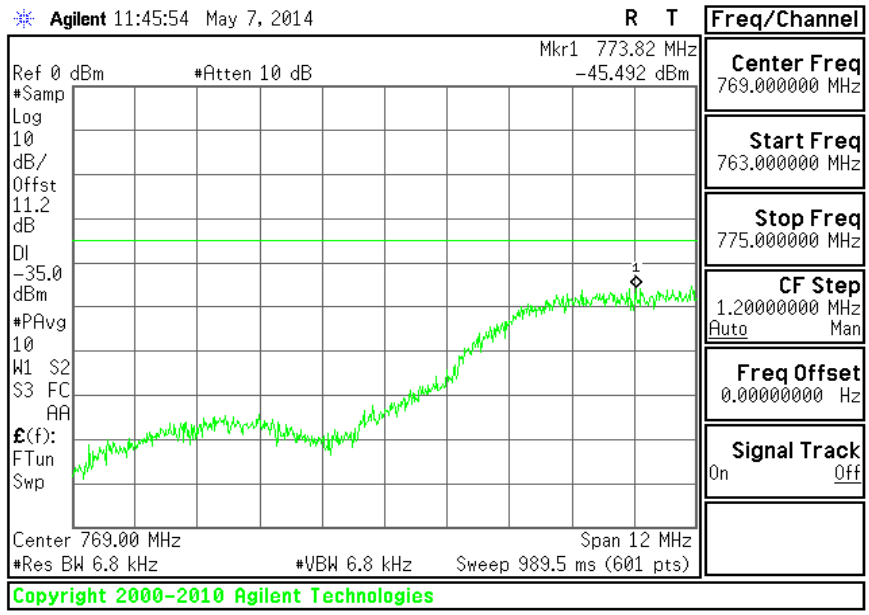
RB25-12



RB50-0



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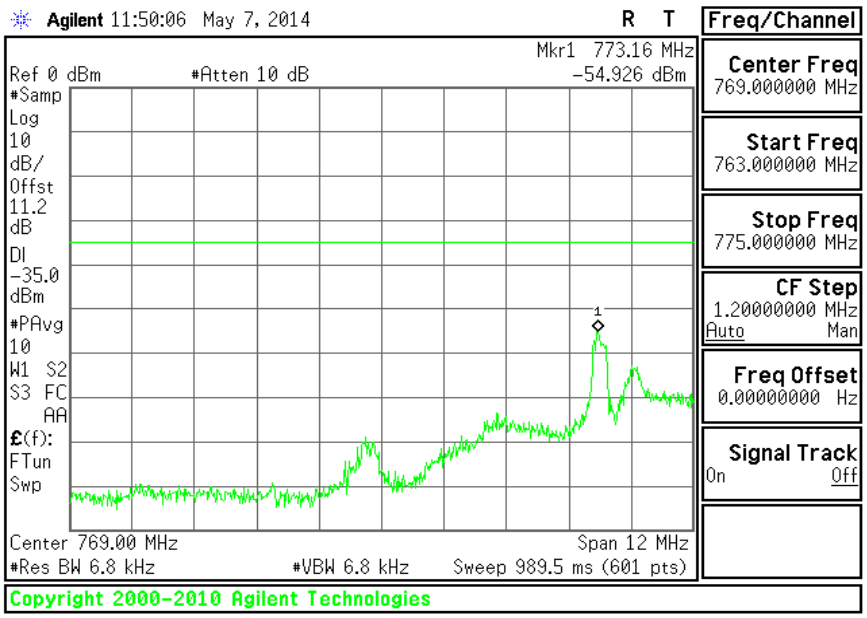
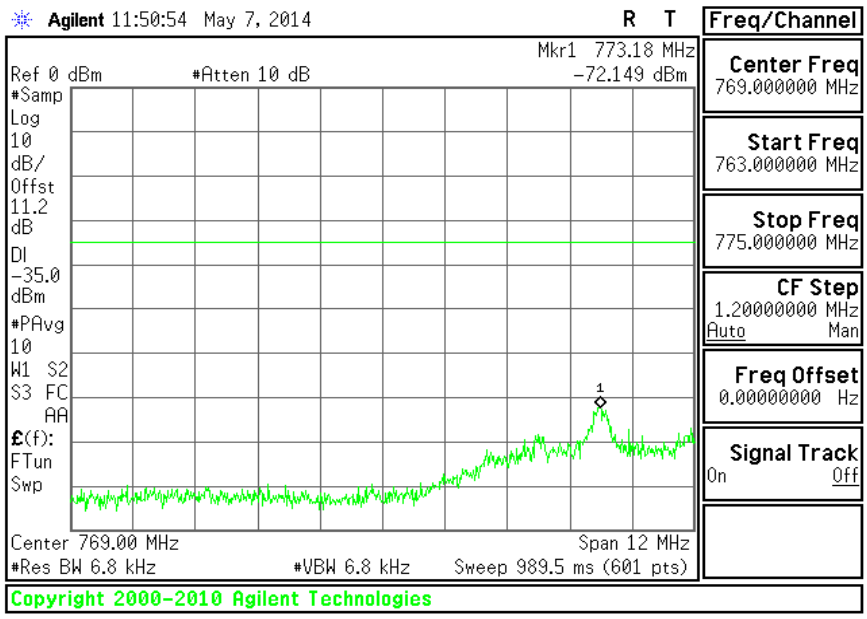
16QAM, 782MHz, 763 - 775MHz, (10MHz Bandwidth)

RB1-0



RB1-49



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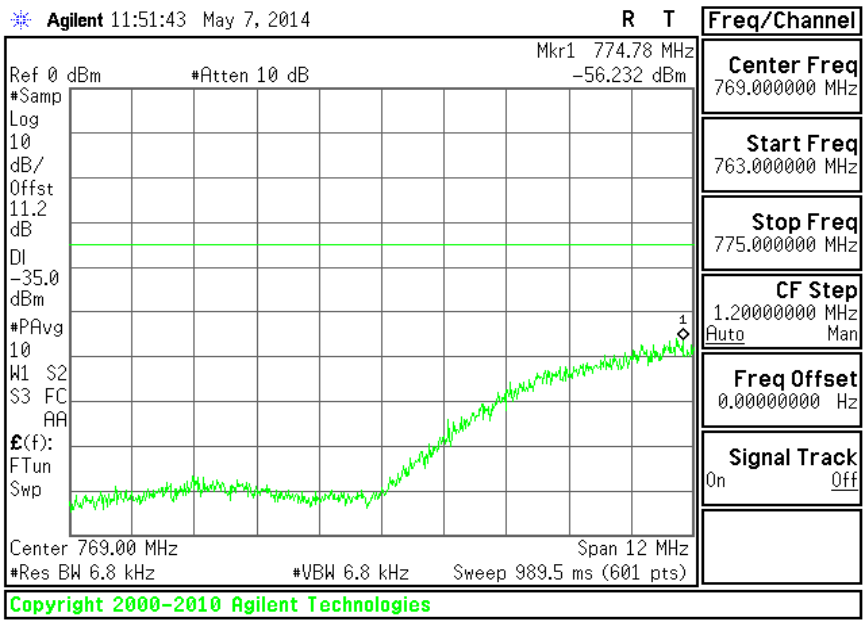
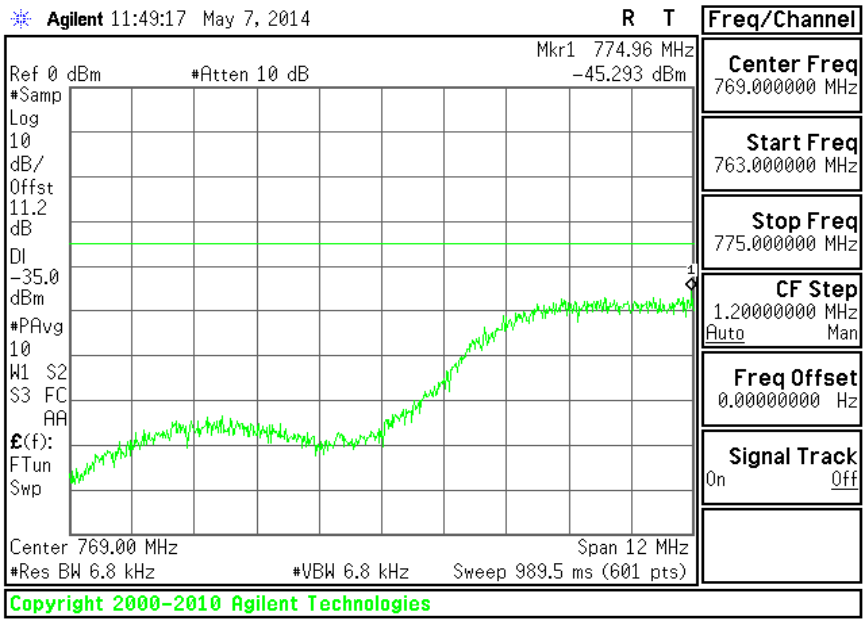
RB25-12



RB50-0



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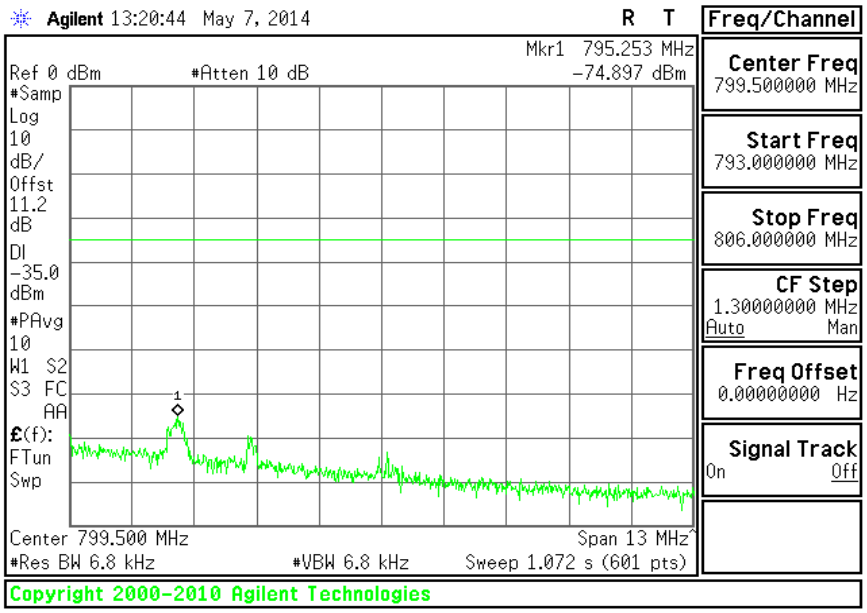
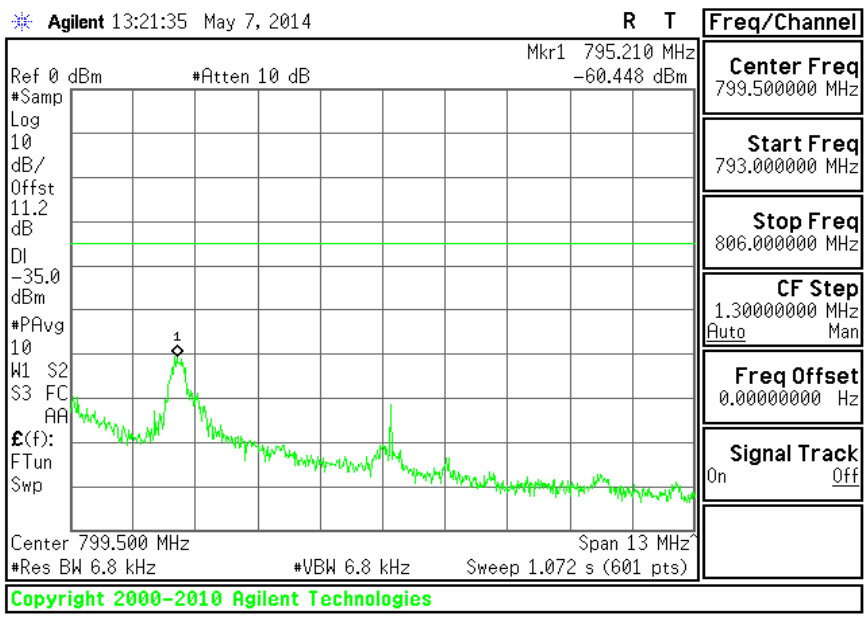
QPSK, 782MHz, 793 - 806MHz, (10MHz Bandwidth)

RB1-0



RB1-49



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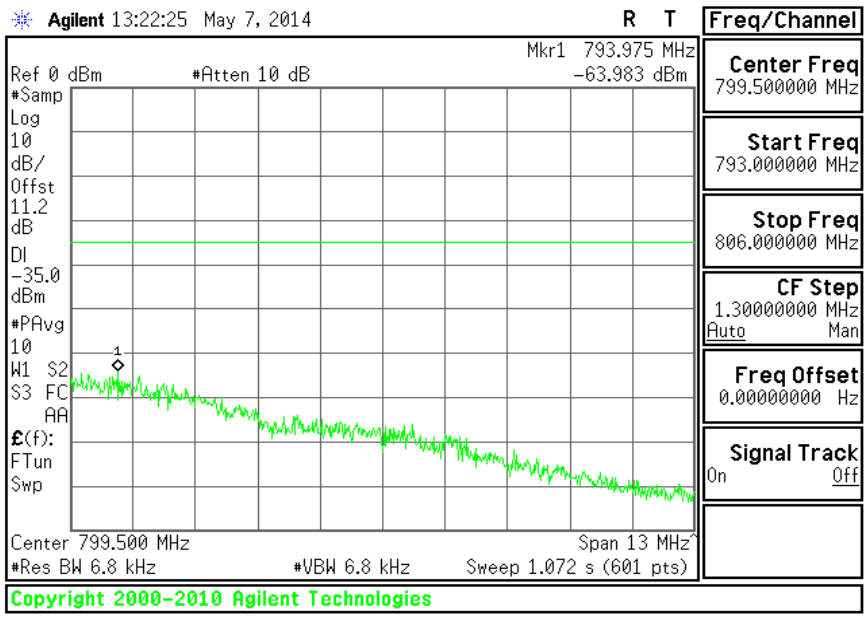
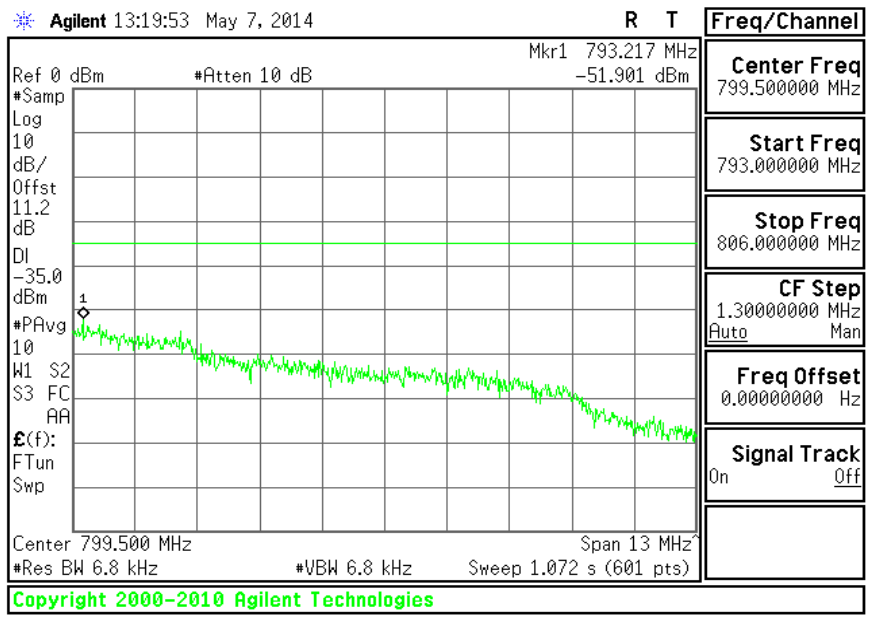
RB25-12



RB50-0



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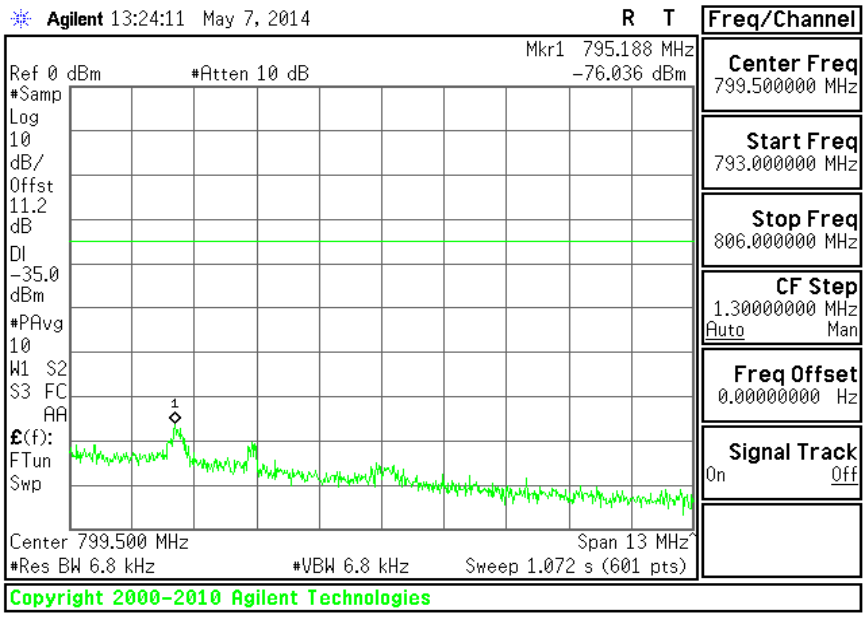
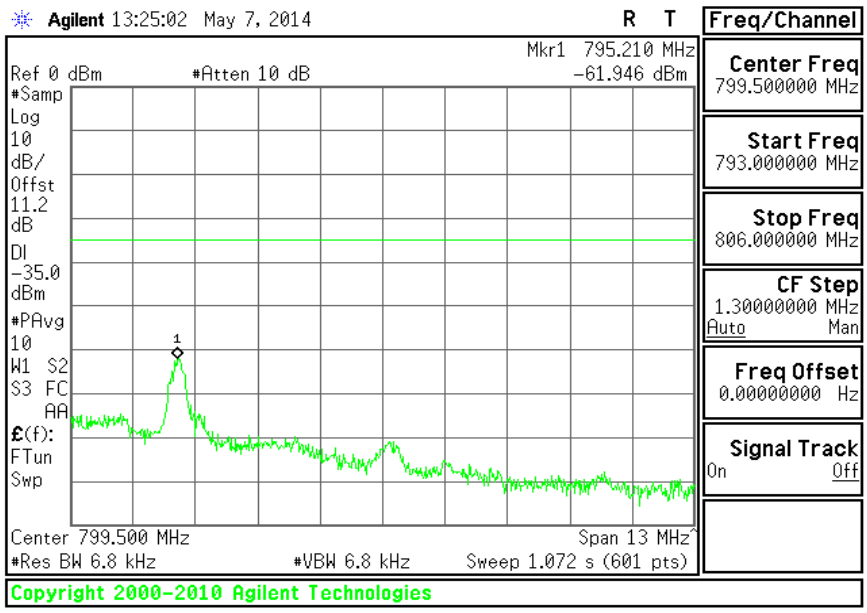
16QAM, 782MHz, 793 - 806MHz, (10MHz Bandwidth)

RB1-0



RB1-49



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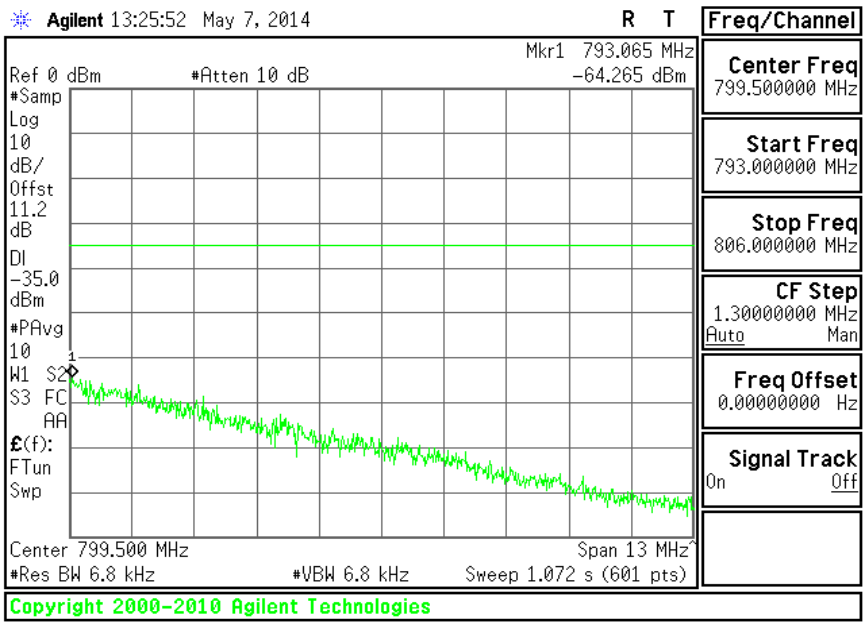
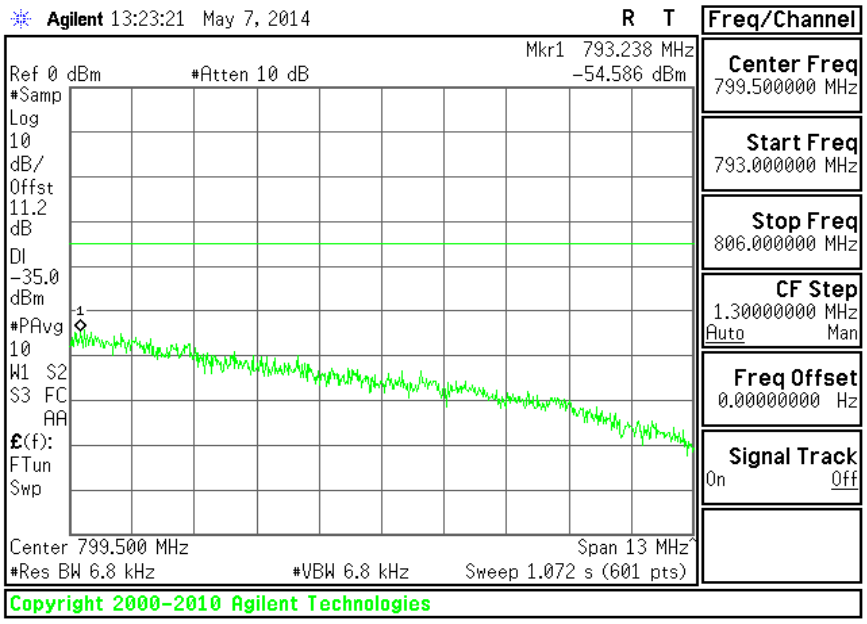
RB25-12



RB50-0



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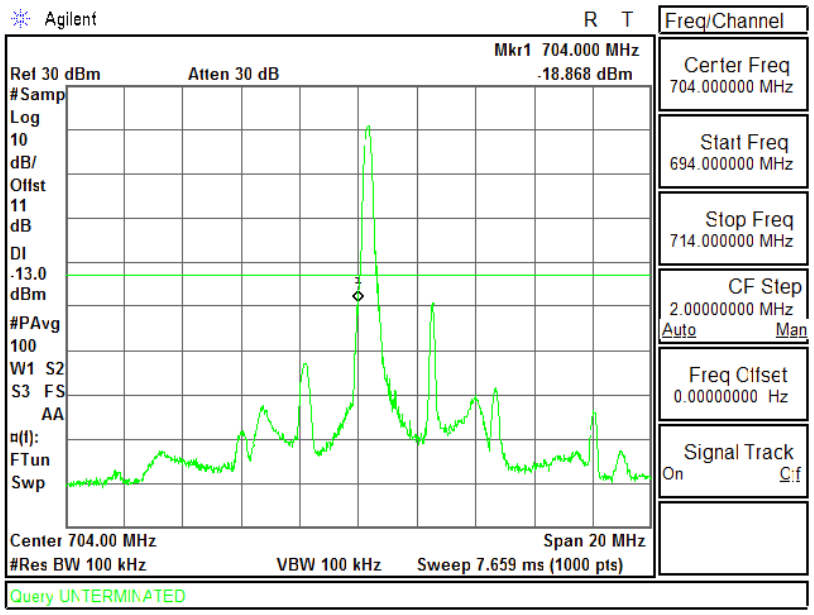
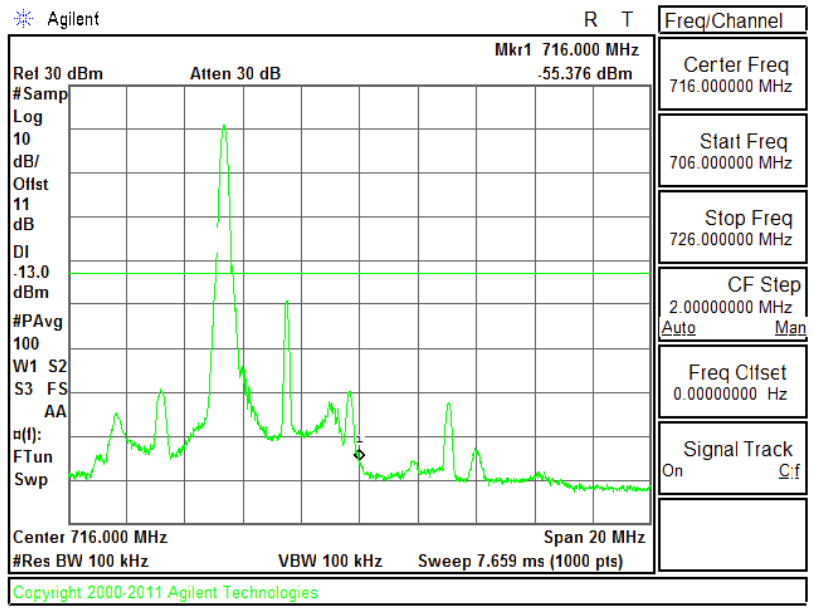
8.2.5. LTE BAND 17 BANDEDGE

QPSK, (5.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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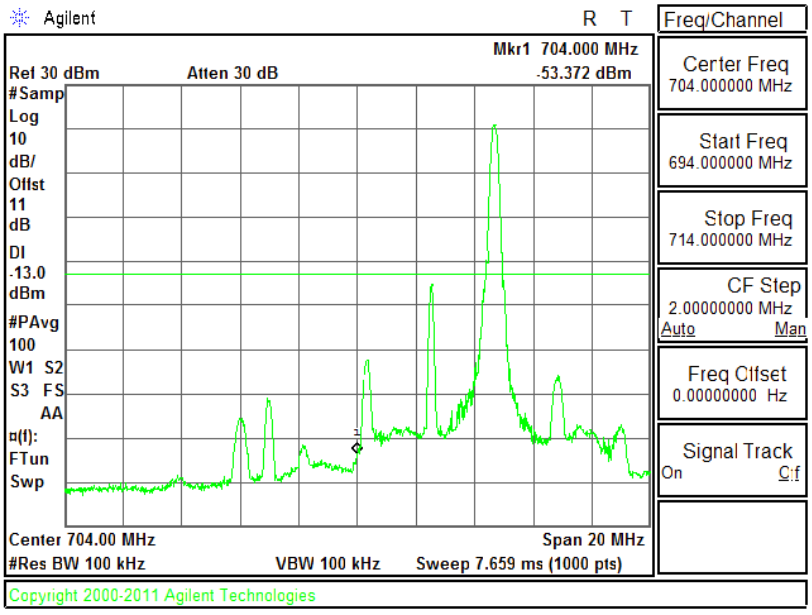
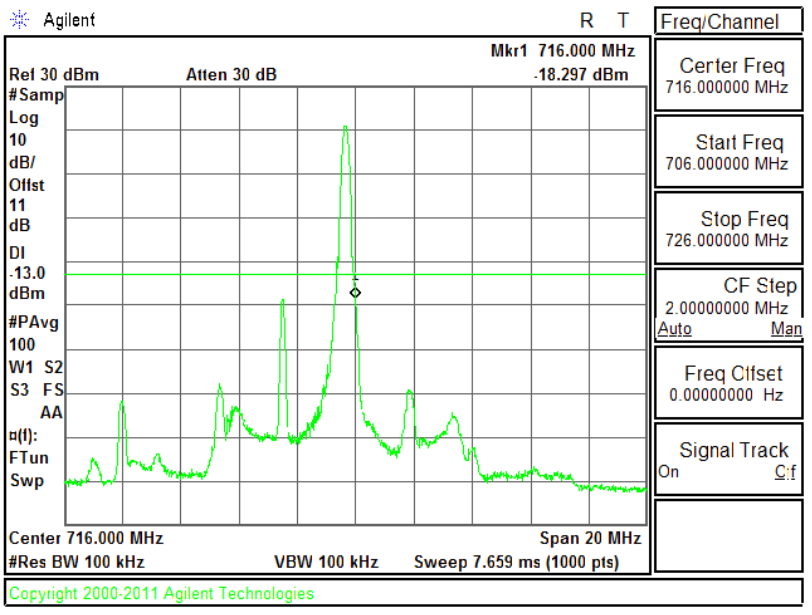
LOW CH, RB1-24



HIGH CH, RB1-24



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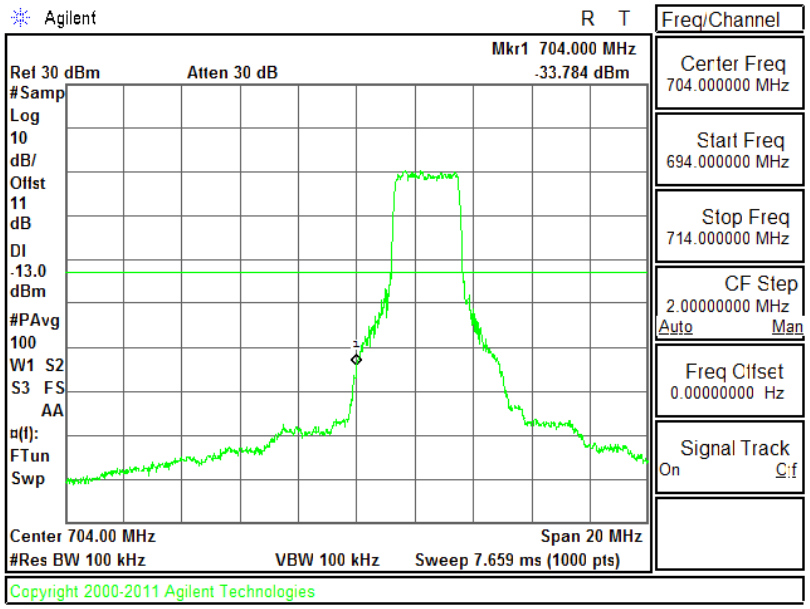
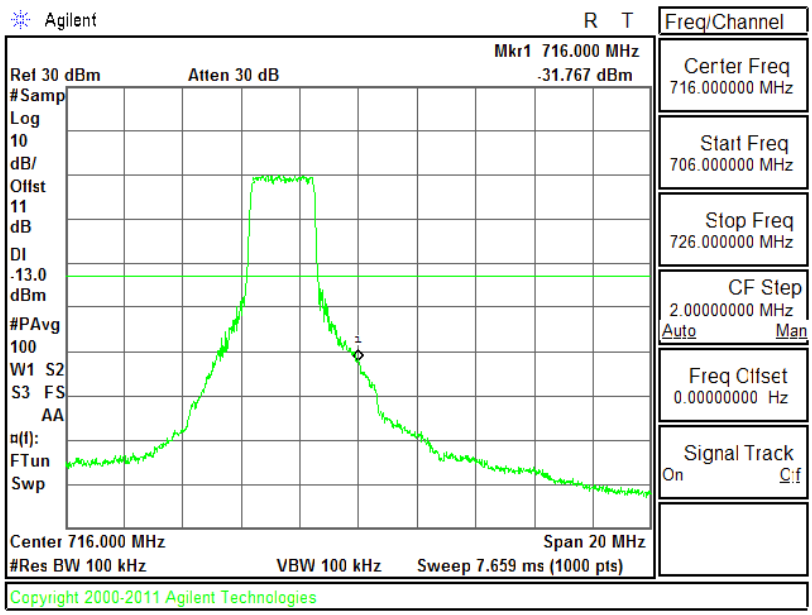
LOW CH, RB12-6



HIGH CH, RB12-6



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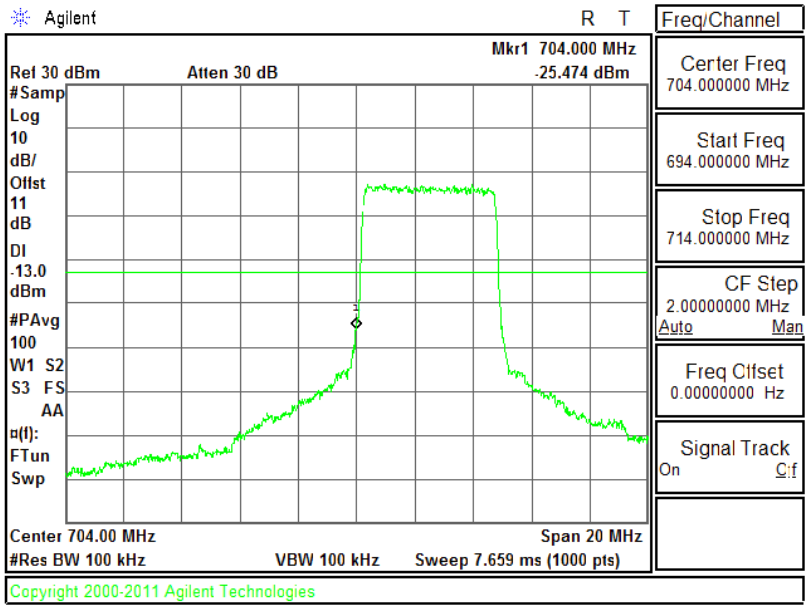
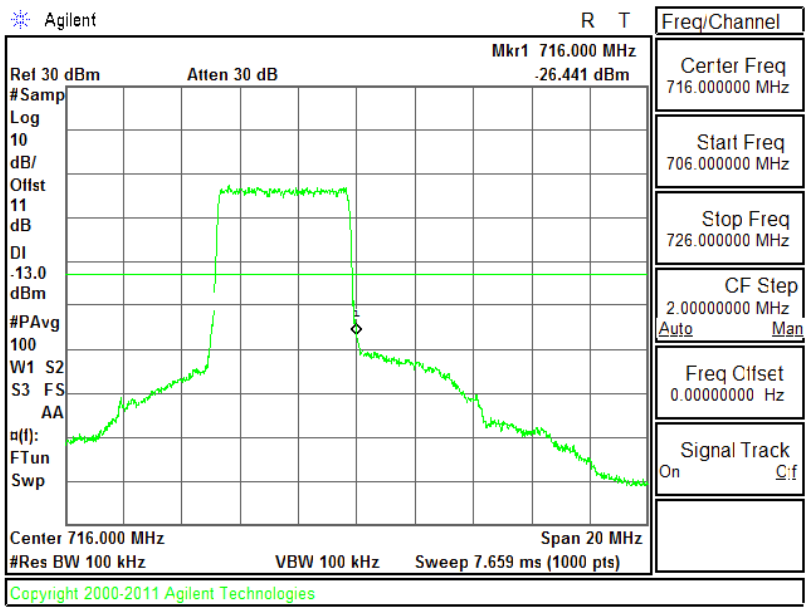
LOW CH, RB25-0



HIGH CH, RB25-0



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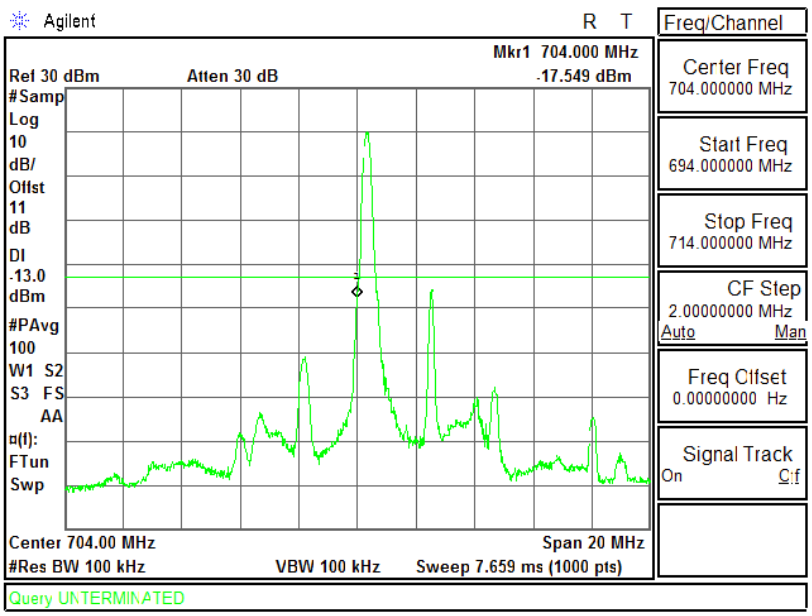
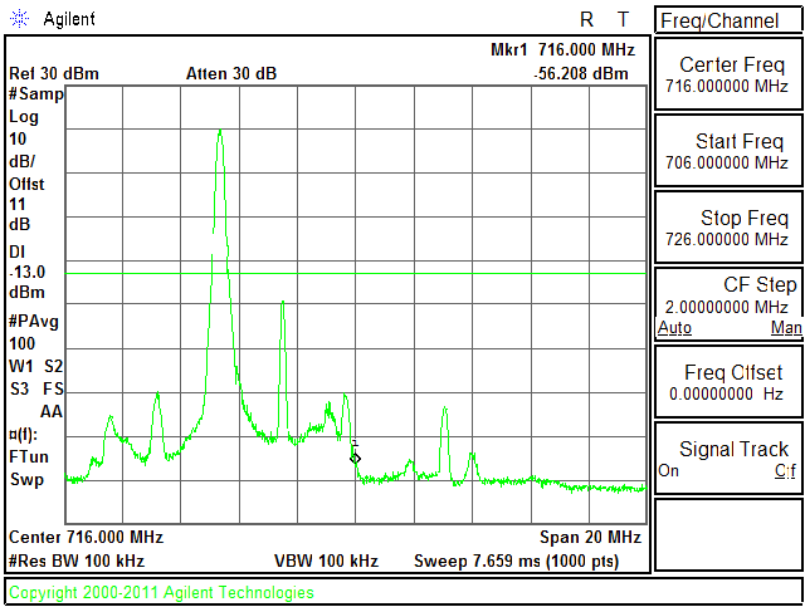
16QAM, (5.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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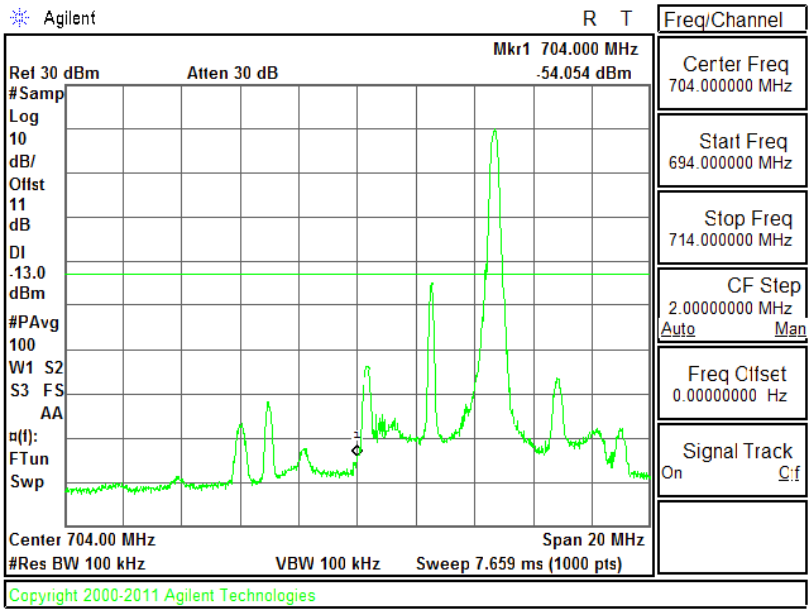
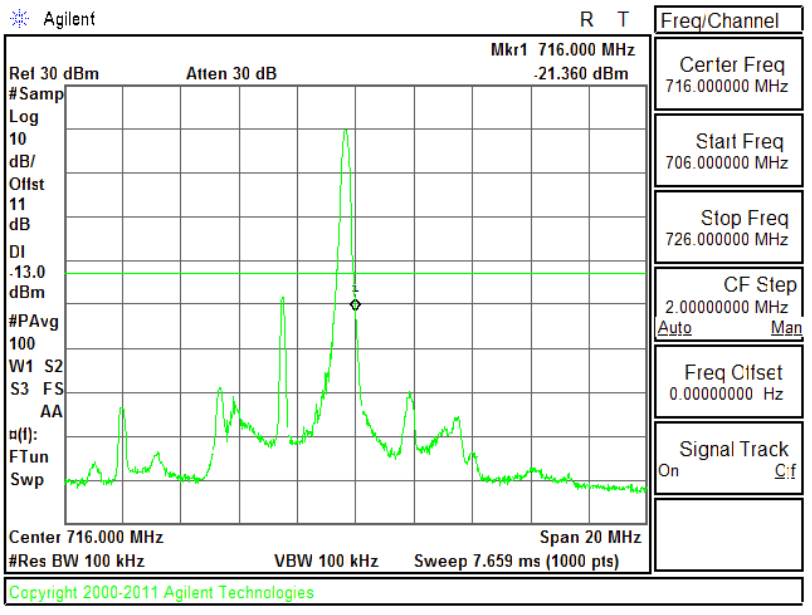
LOW CH, RB1-24



HIGH CH, RB1-24



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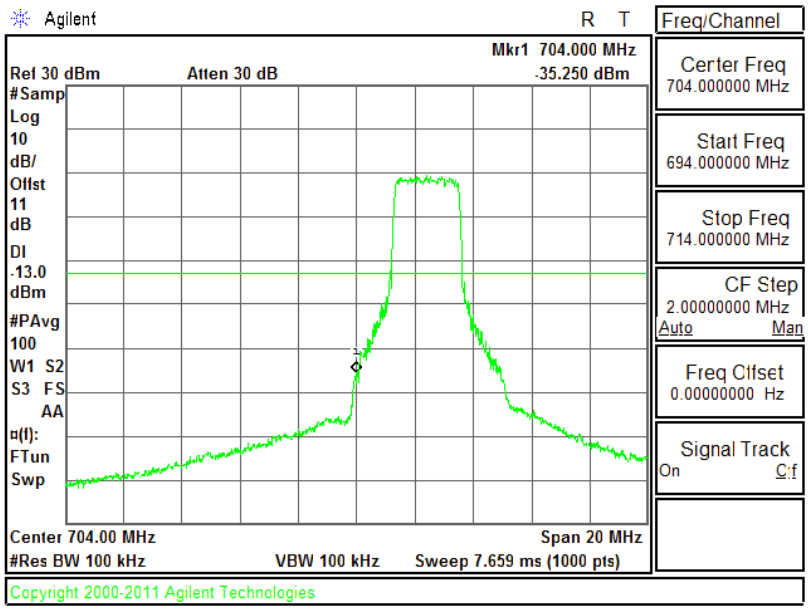
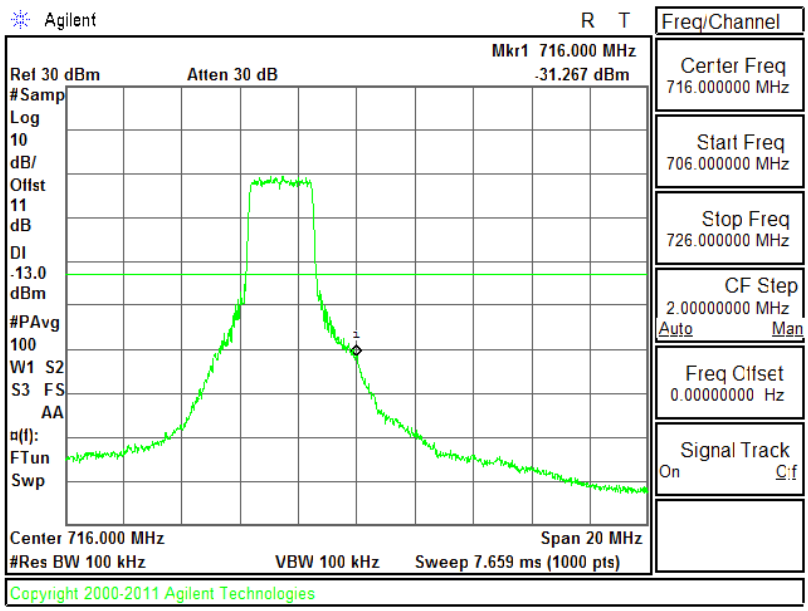
LOW CH, RB12-6



HIGH CH, RB12-6



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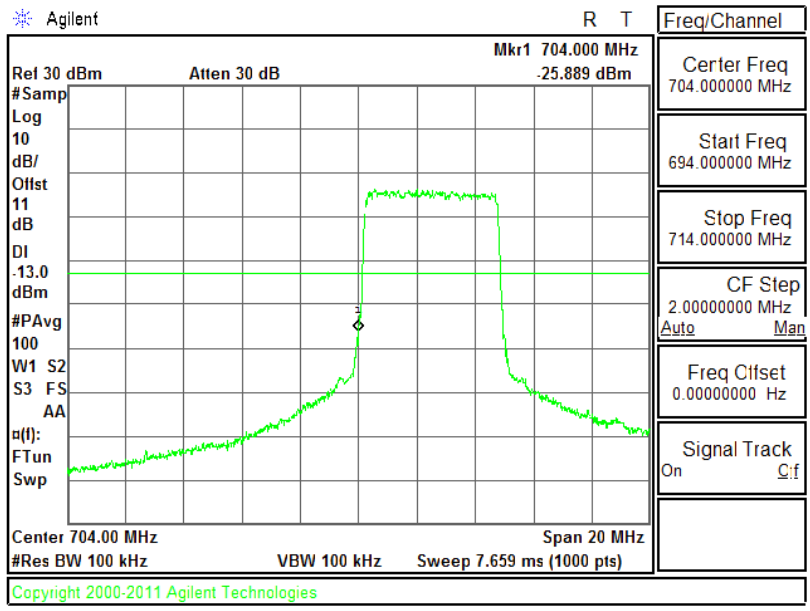
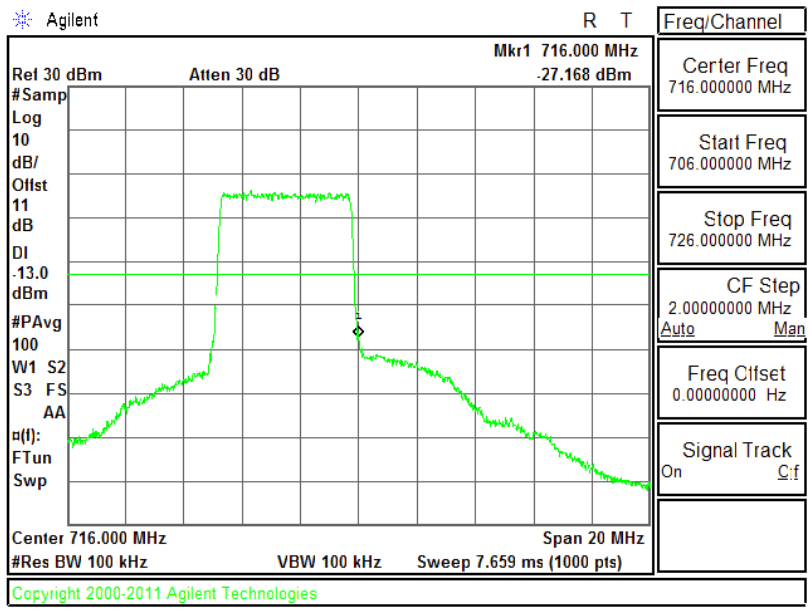
LOW CH, RB25-0



HIGH CH, RB25-0



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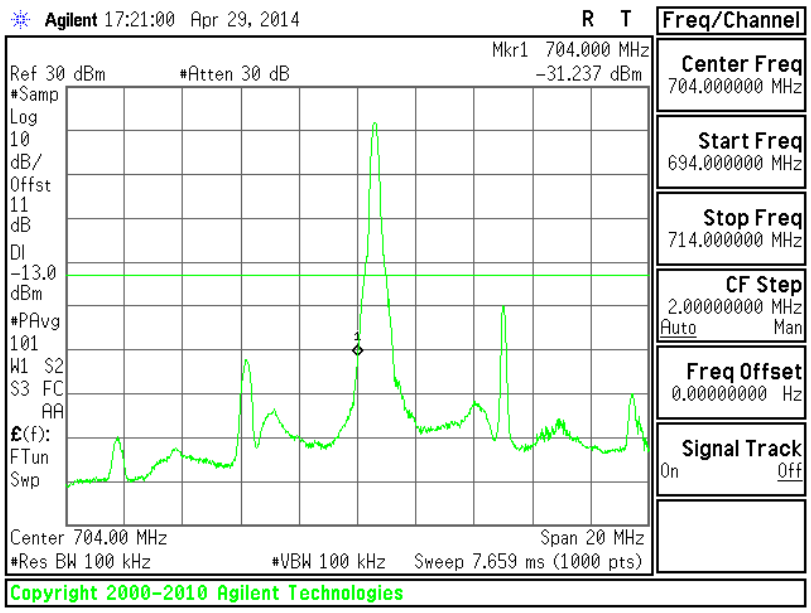
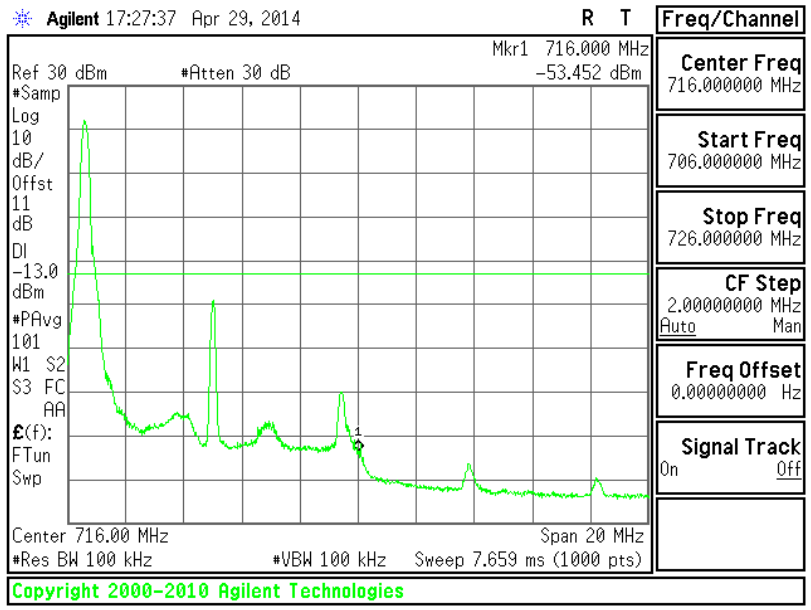
QPSK, (10.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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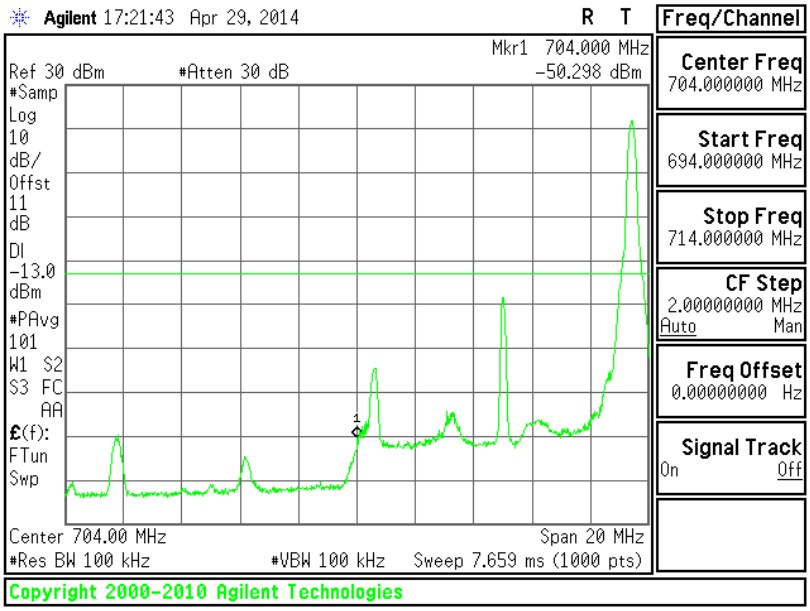
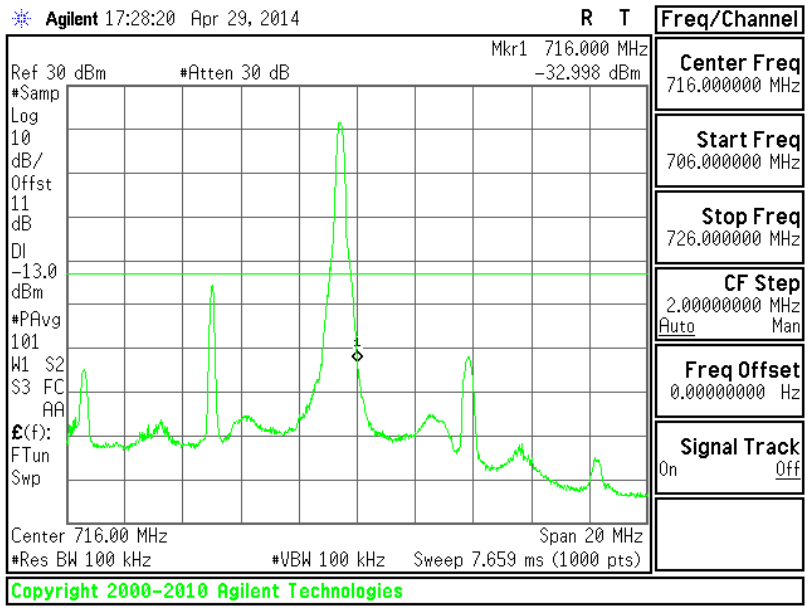
LOW CH, RB1-49



HIGH CH, RB1-49



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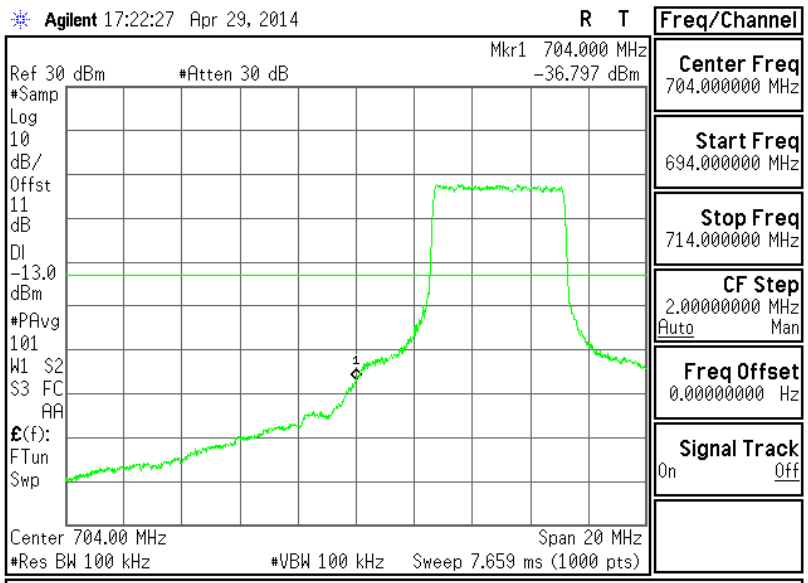
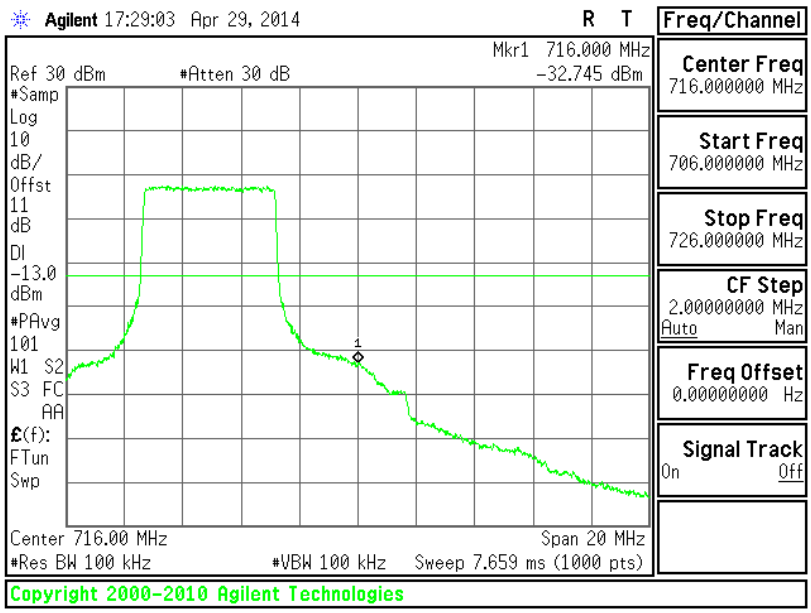
LOW CH, RB25-12



HIGH CH, RB25-12



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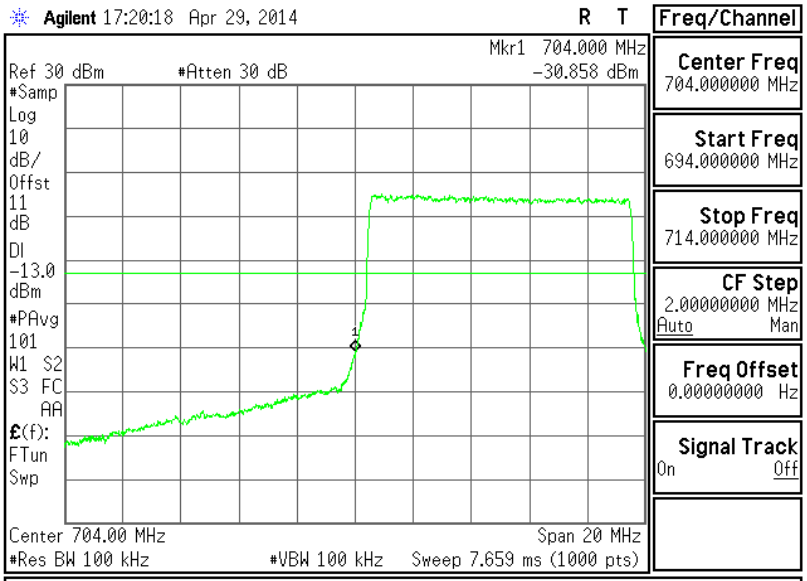
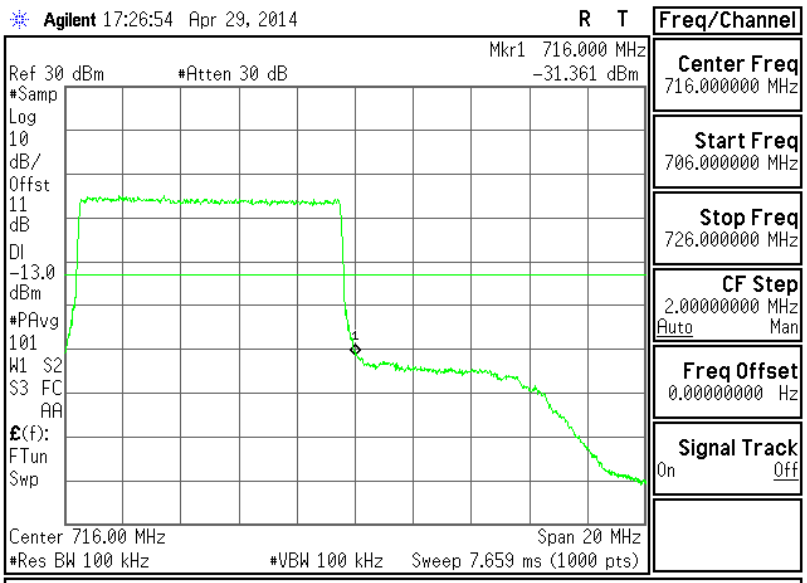
LOW CH, RB50-0



HIGH CH, RB50-0



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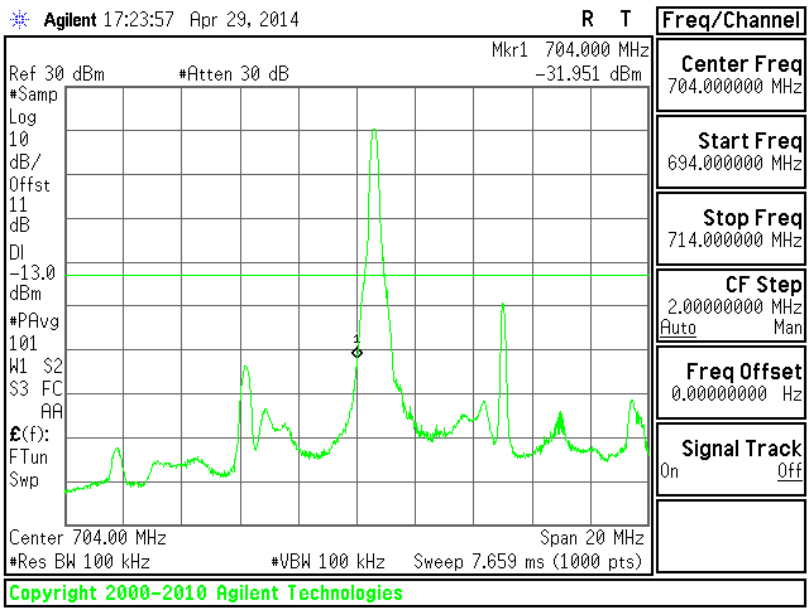
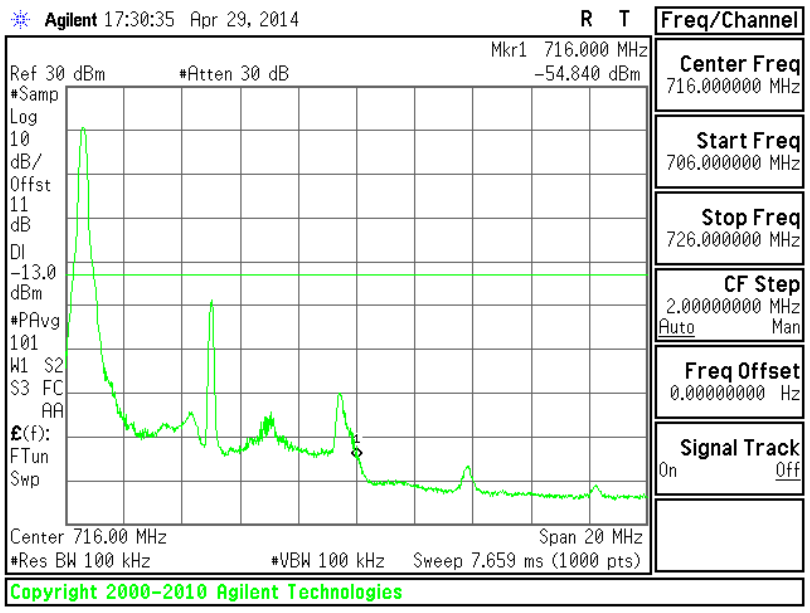
16QAM, (10.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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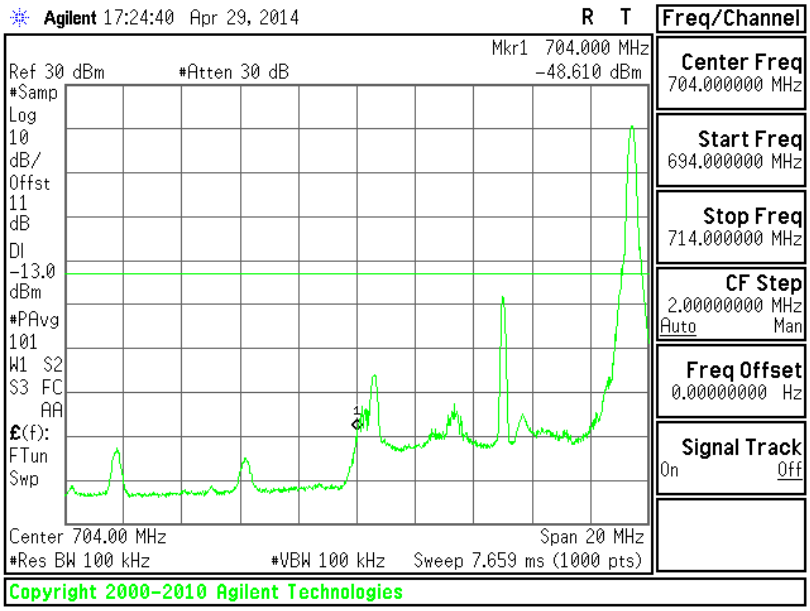
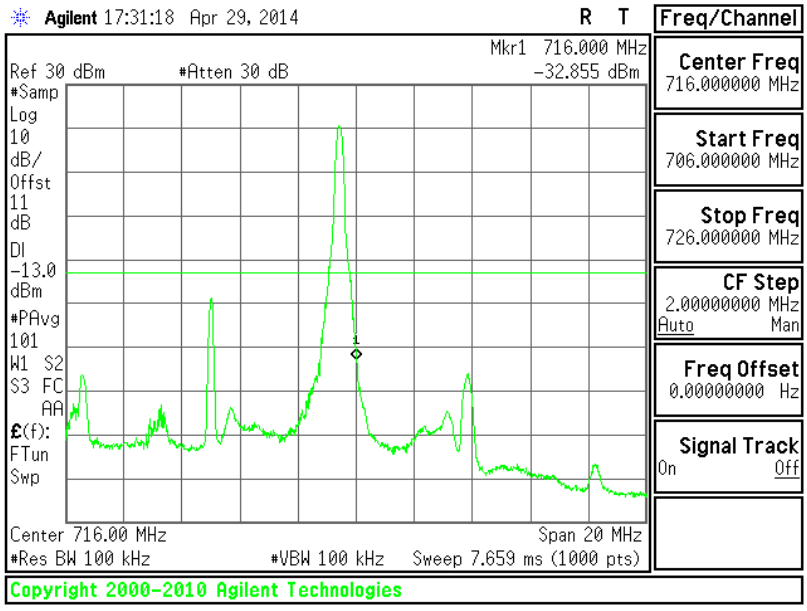
LOW CH, RB1-49



HIGH CH, RB1-49



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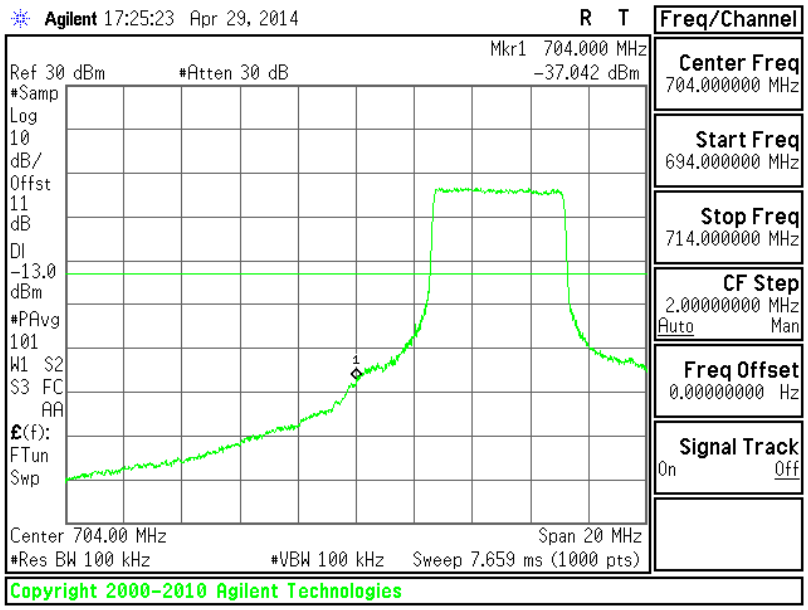
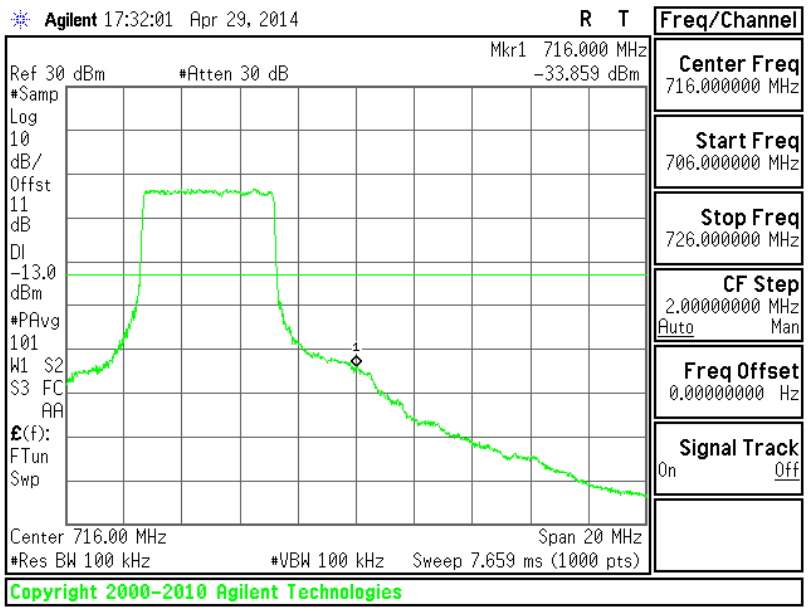
LOW CH, RB25-12



HIGH CH, RB25-12



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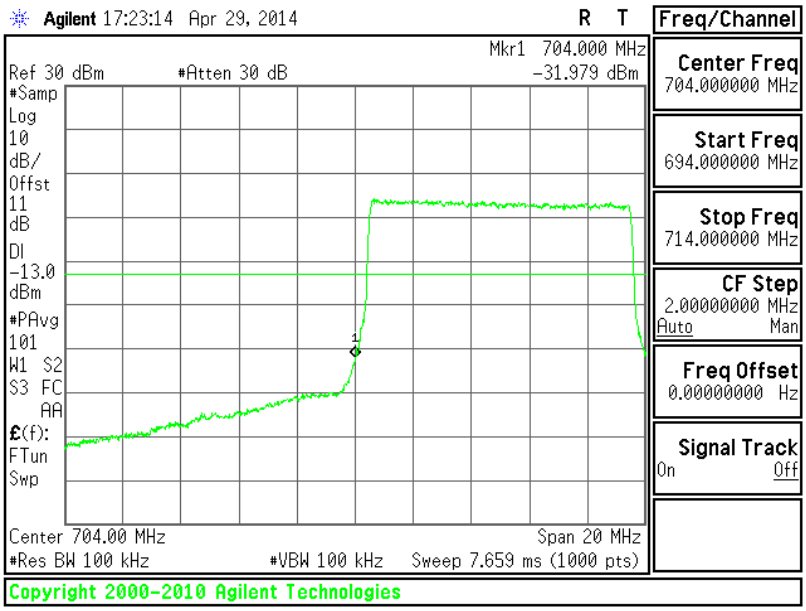
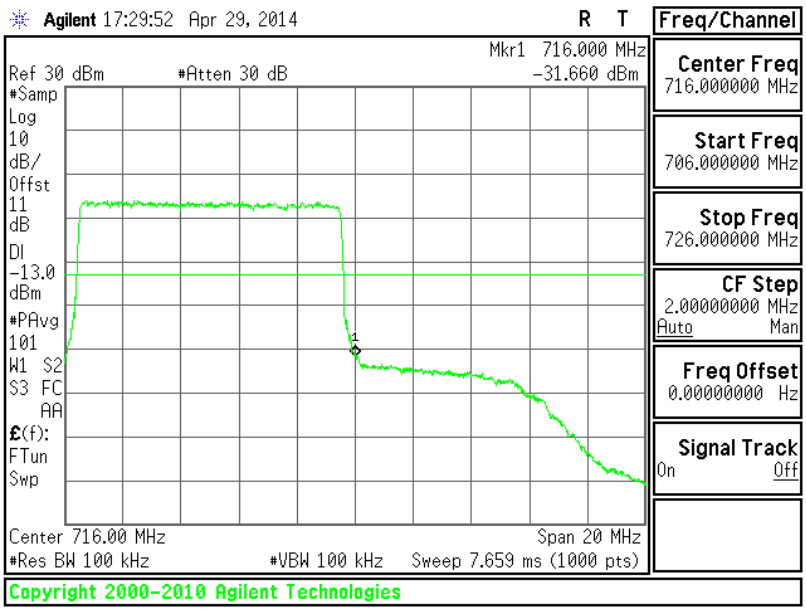
LOW CH, RB50-0



HIGH CH, RB50-0



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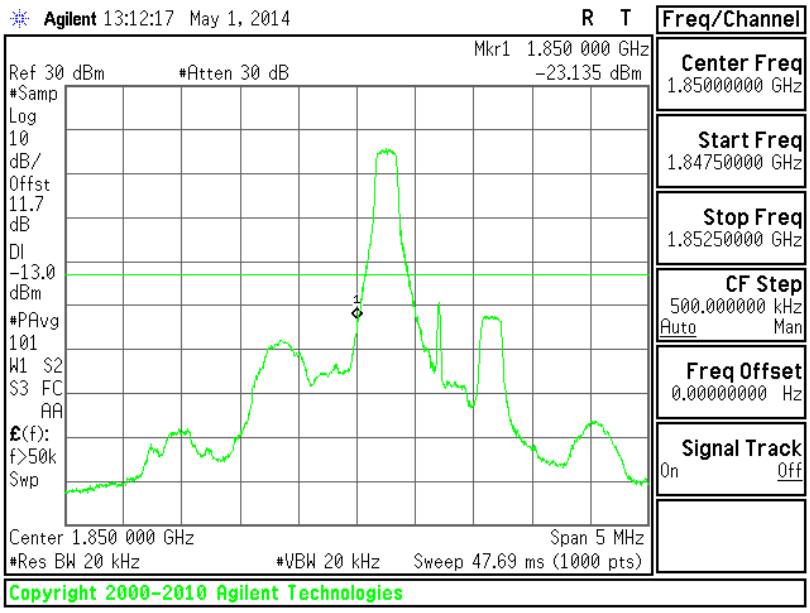
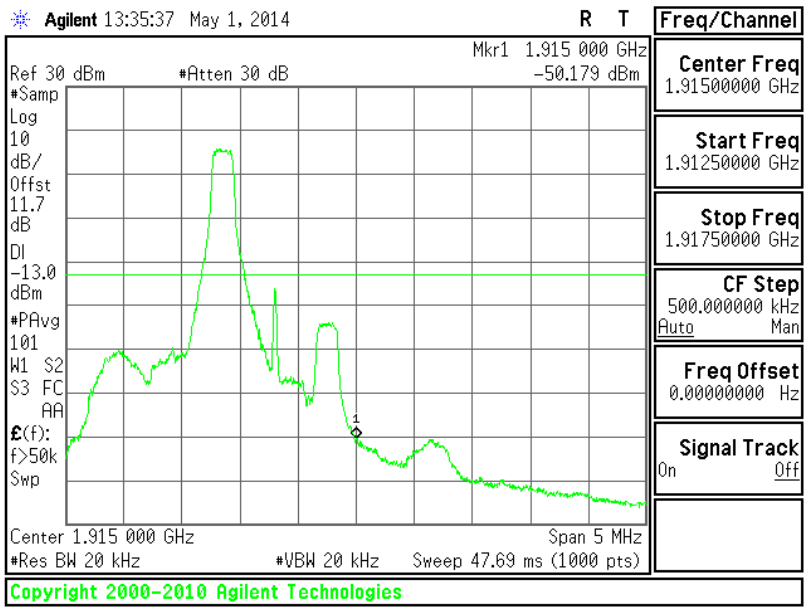
8.2.6. LTE BAND 25 BANDEDGE

QPSK, (1.4 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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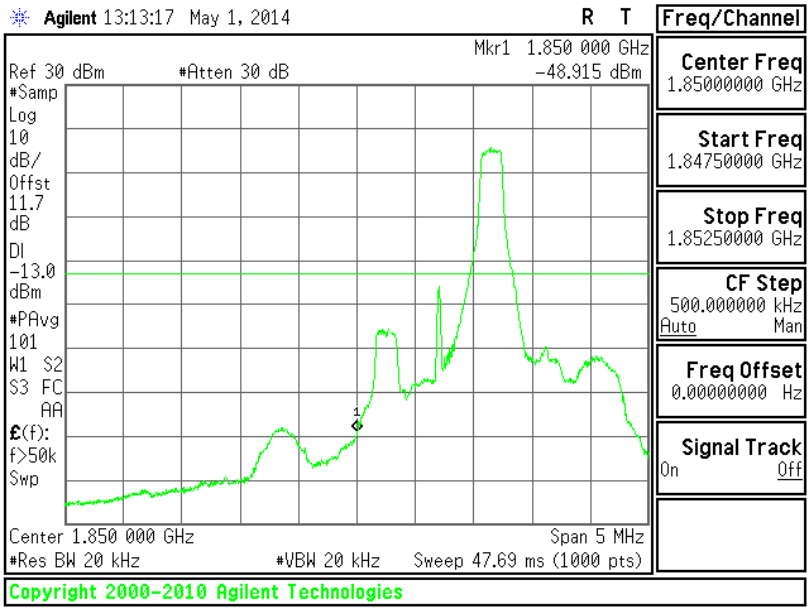
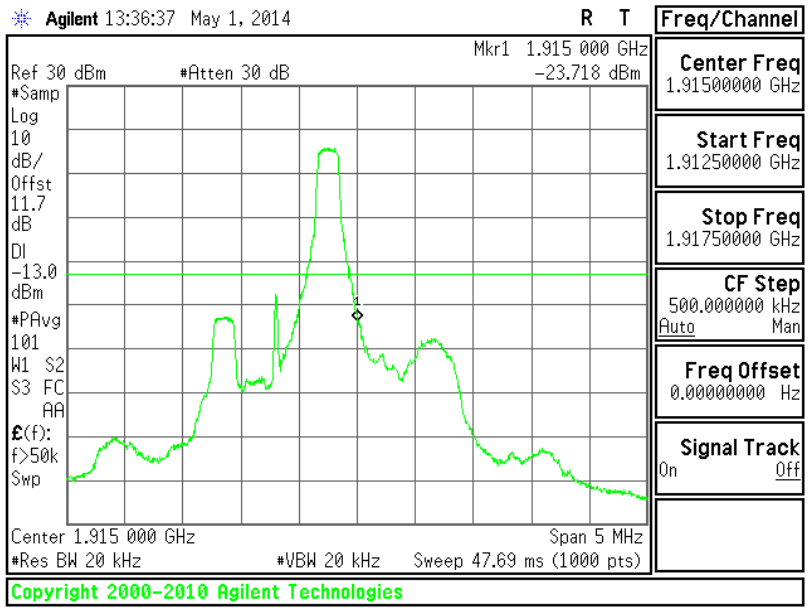
LOW CH, RB1-5



HIGH CH, RB1-5



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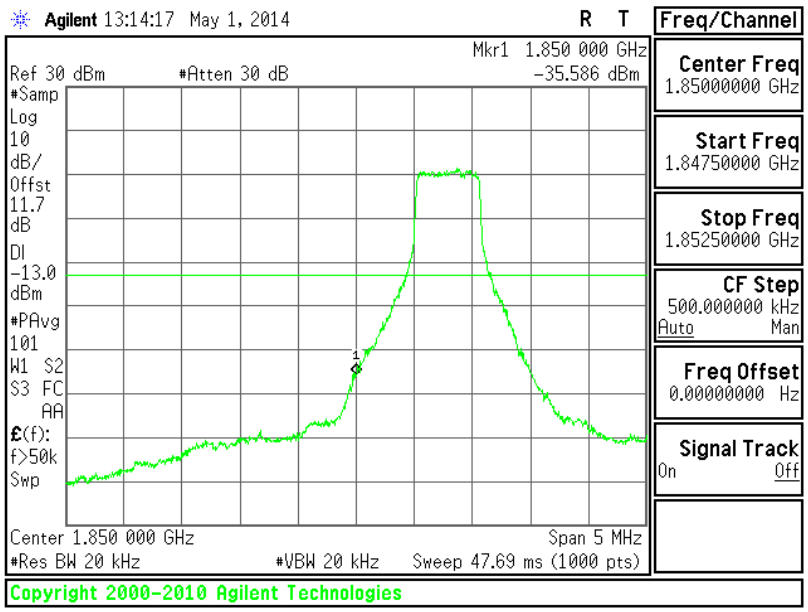
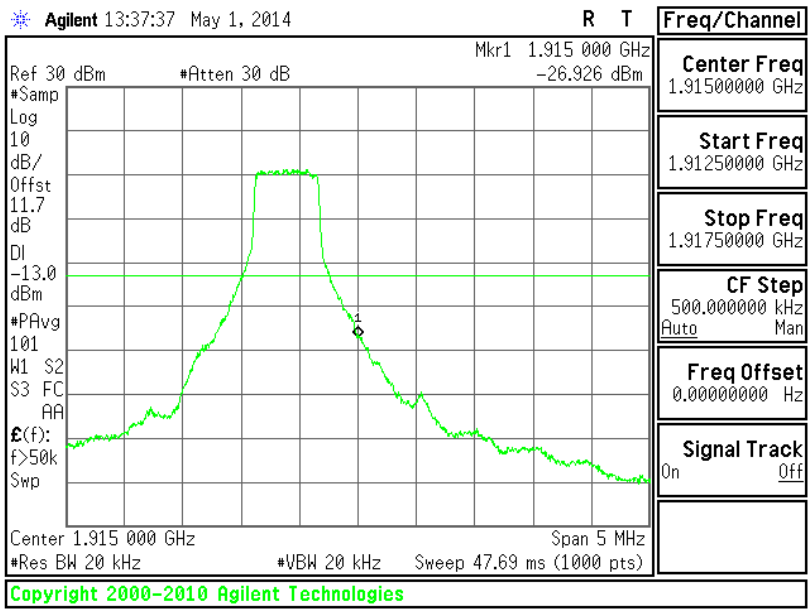
LOW CH, RB3-2



HIGH CH, RB3-2



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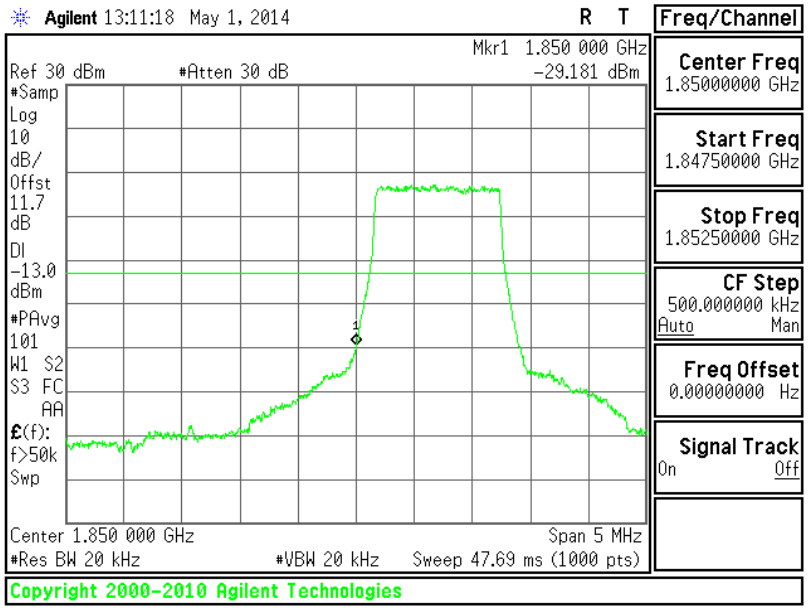
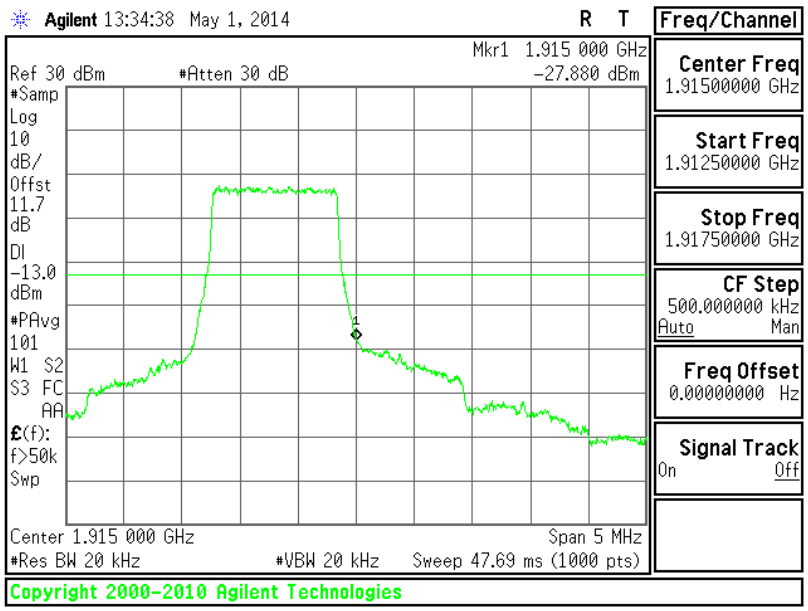
LOW CH, RB6-0



HIGH CH, RB6-0



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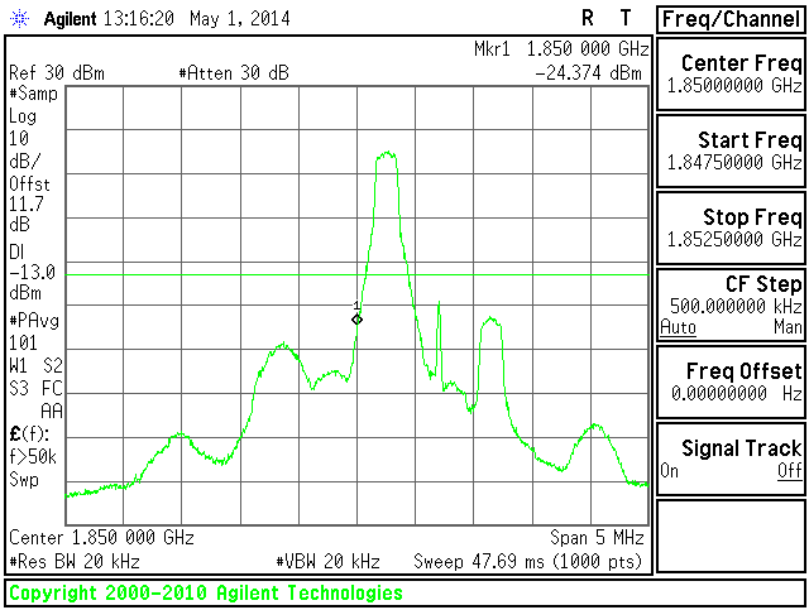
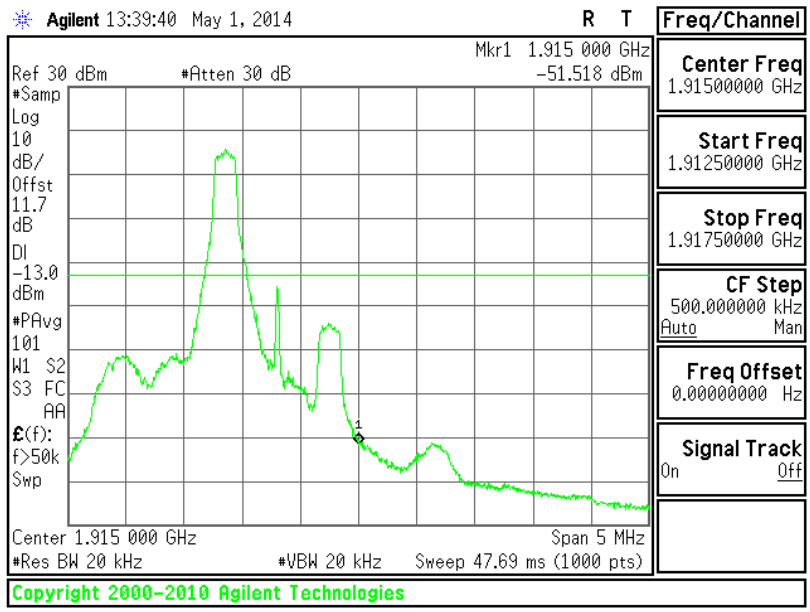
16QAM, (1.4 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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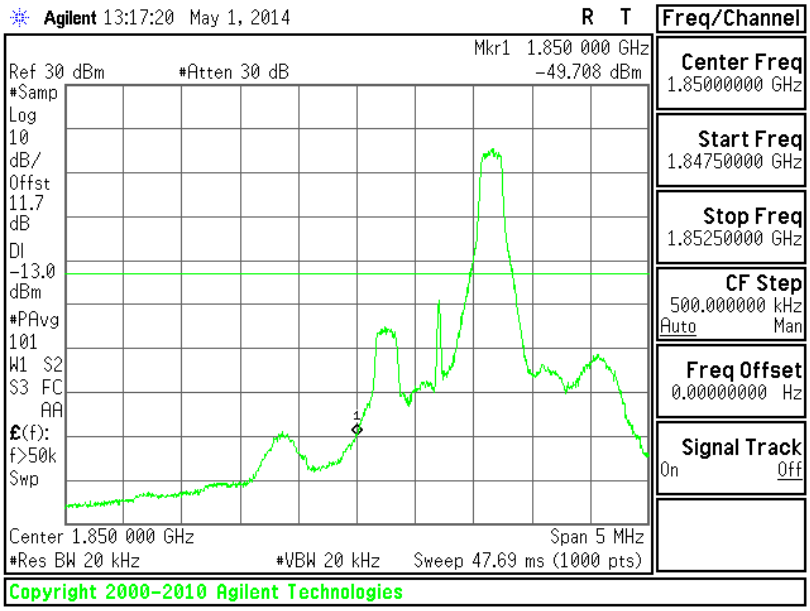
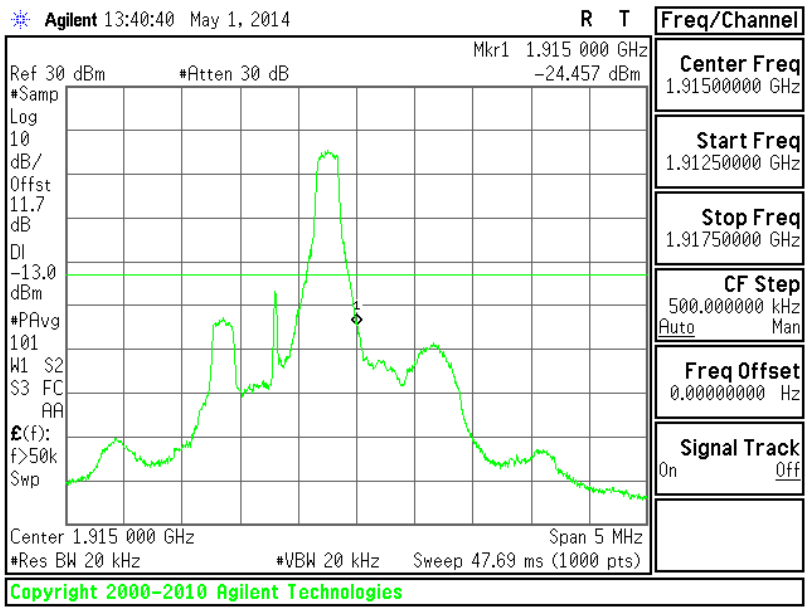
LOW CH, RB1-5



HIGH CH, RB1-5



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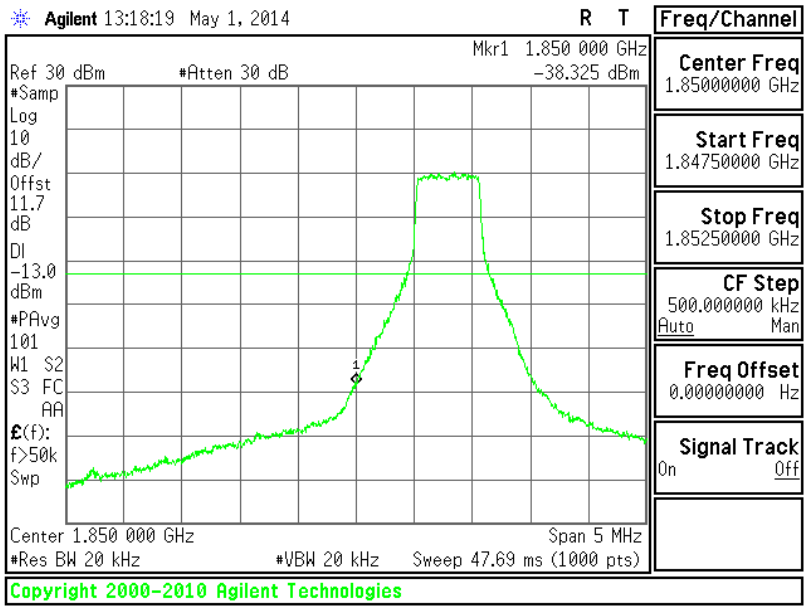
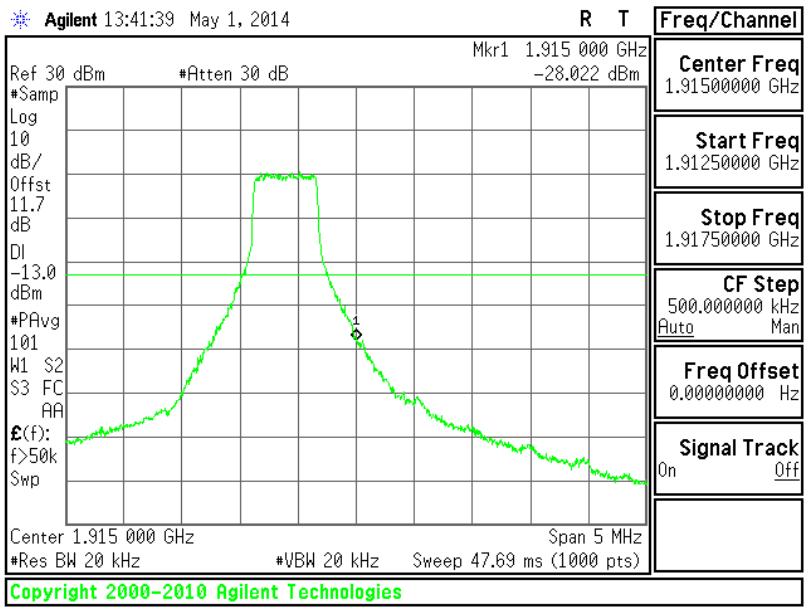
LOW CH, RB3-2



HIGH CH, RB3-2



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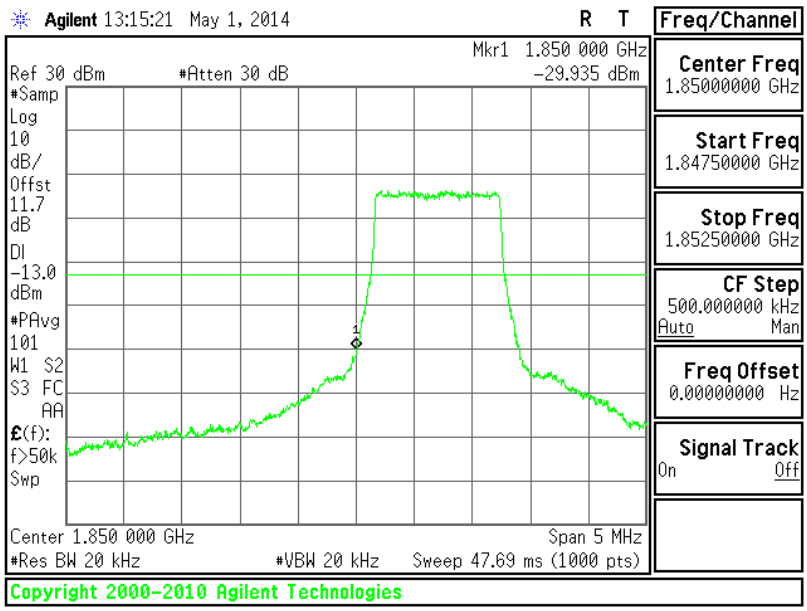
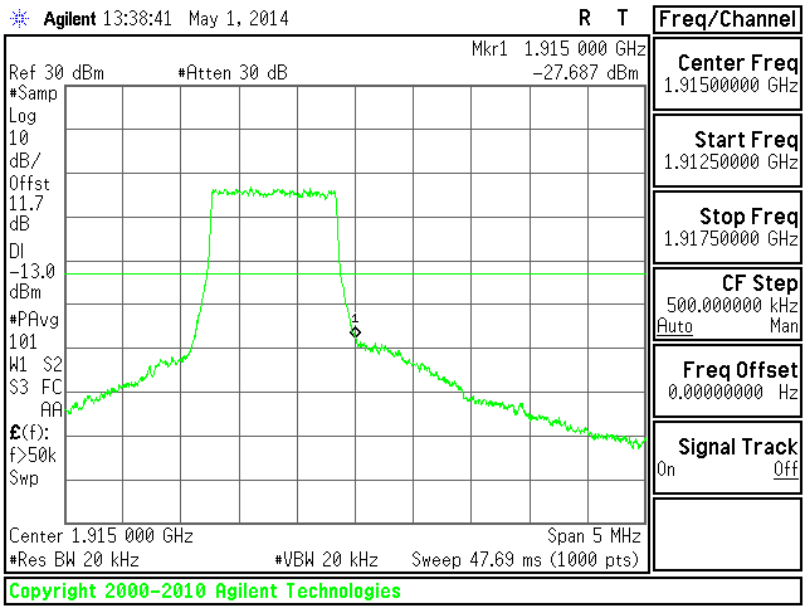
LOW CH, RB6-0



HIGH CH, RB6-0



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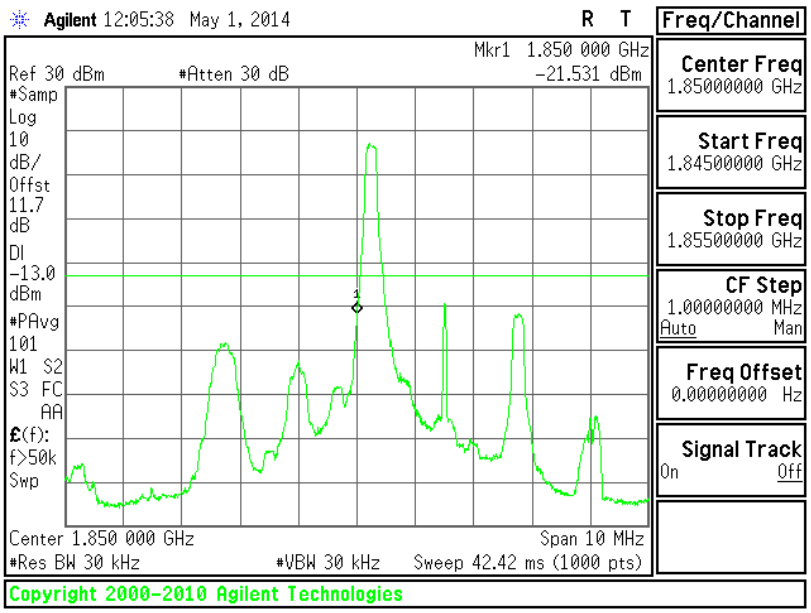
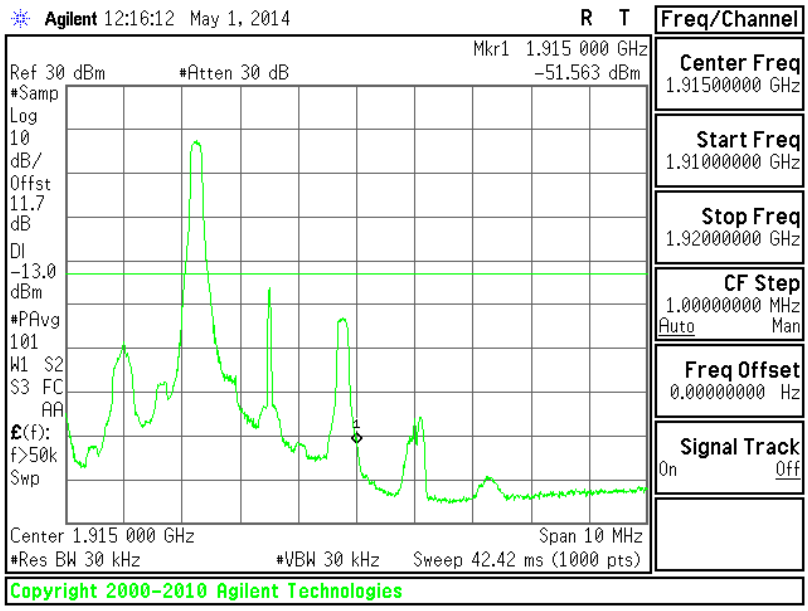
QPSK, (3.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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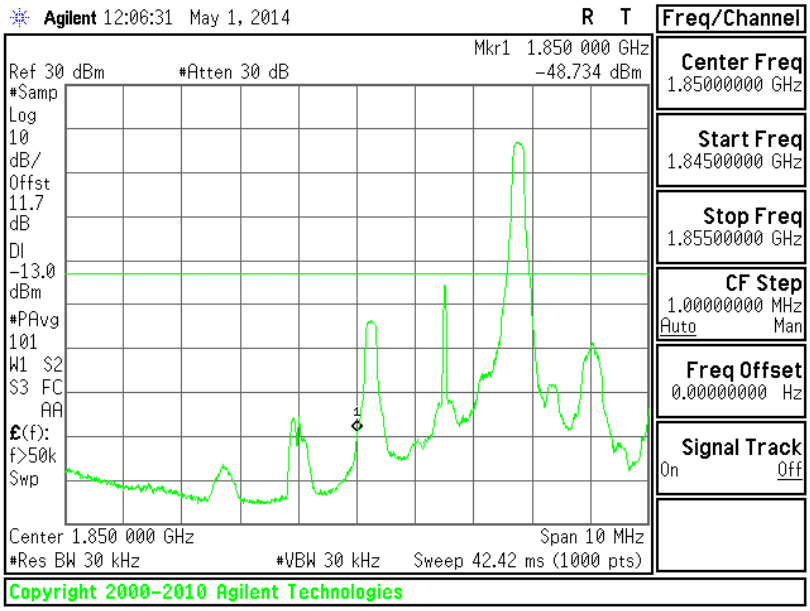
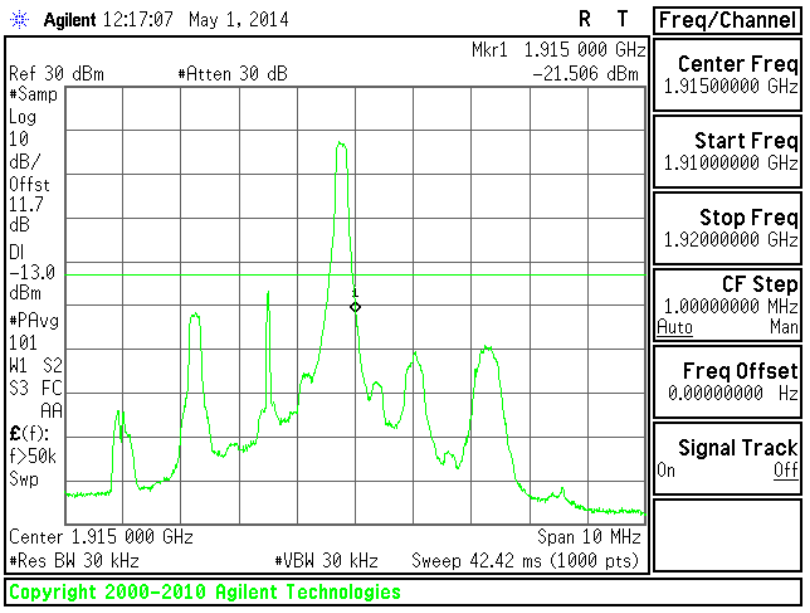
LOW CH, RB1-14



HIGH CH, RB1-14



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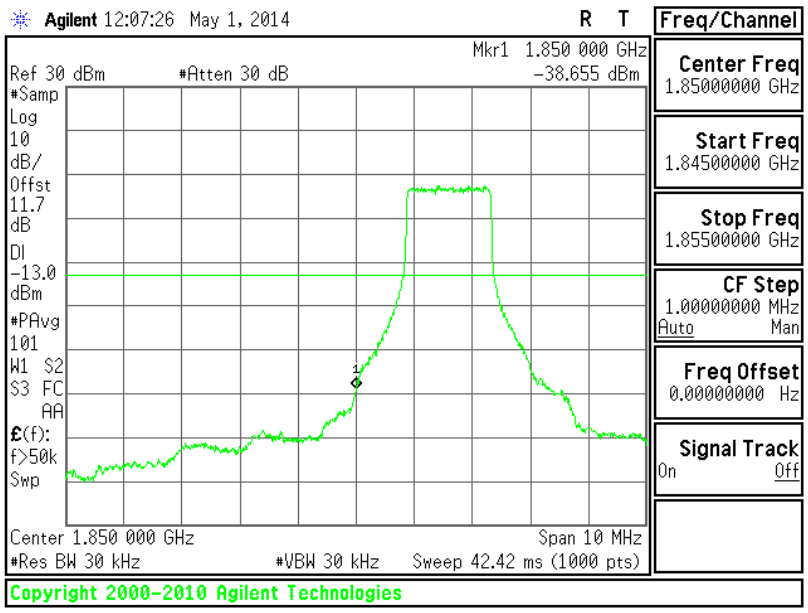
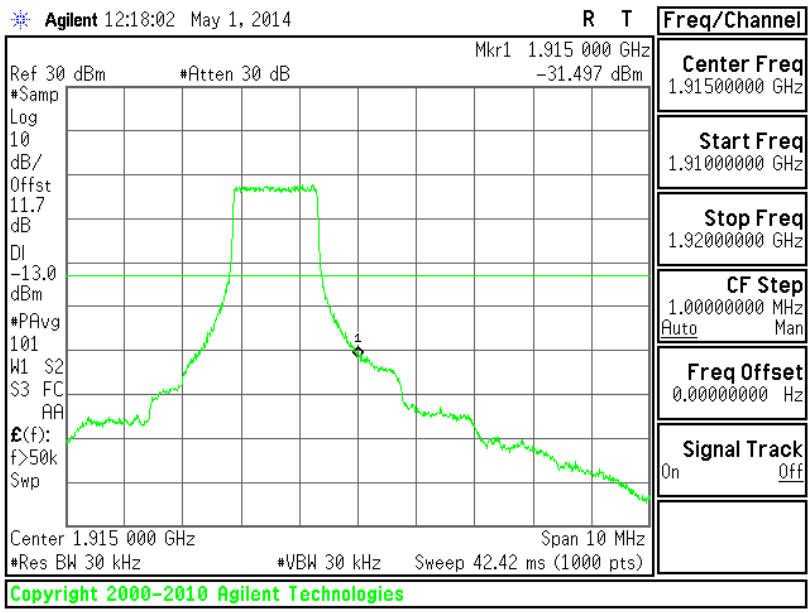
LOW CH, RB8-4



HIGH CH, RB8-4



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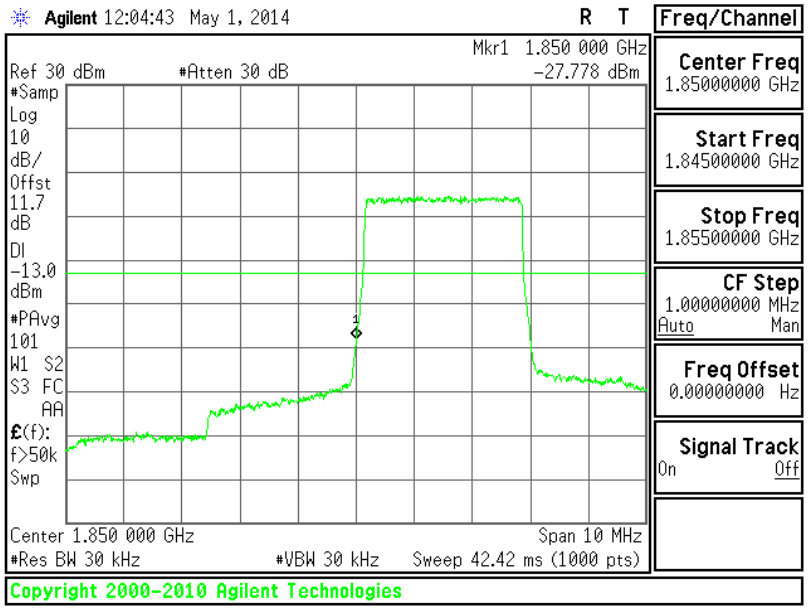
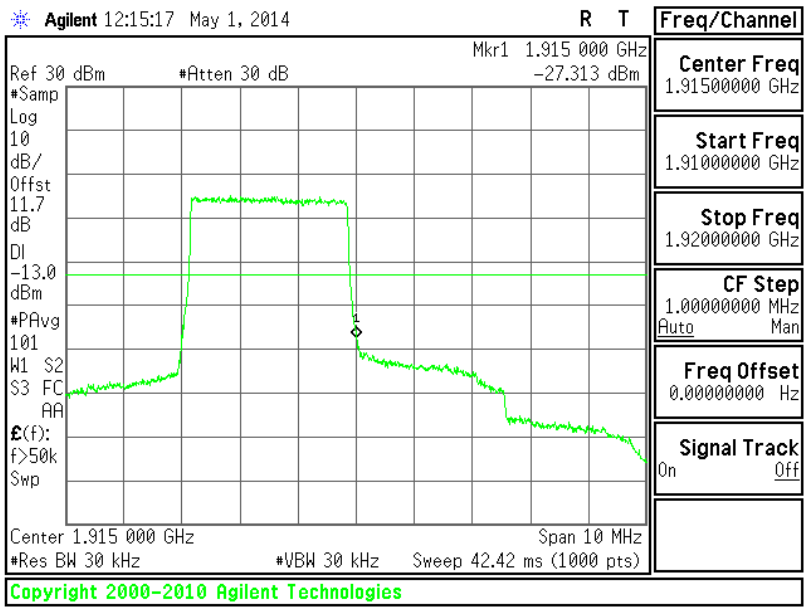
LOW CH, RB15-0



HIGH CH, RB15-0



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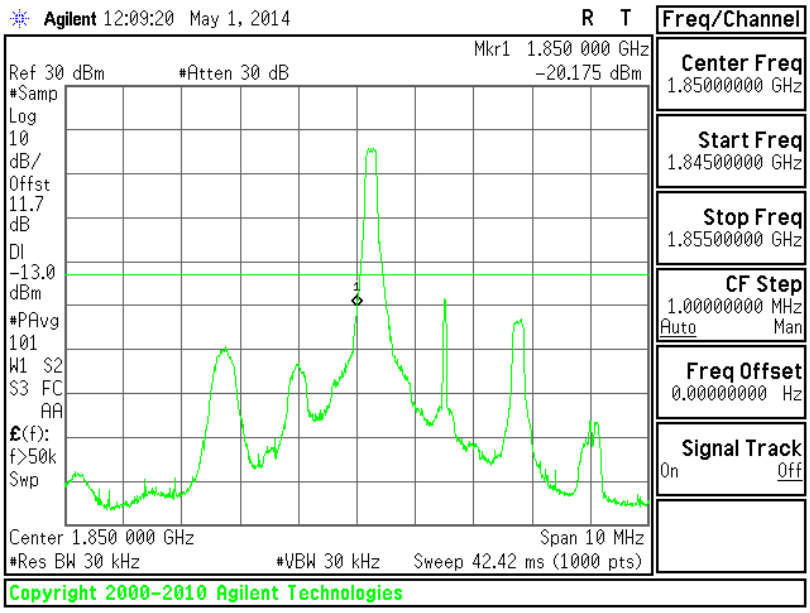
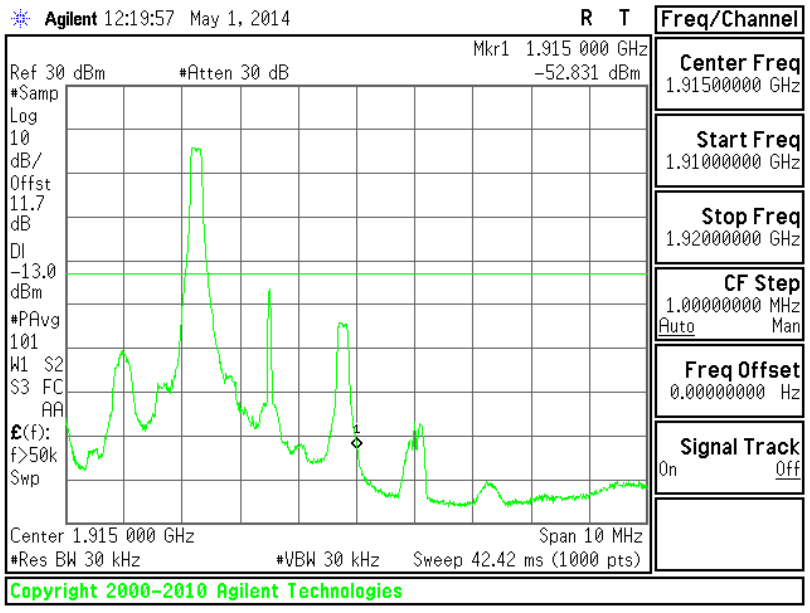
16QAM, (3.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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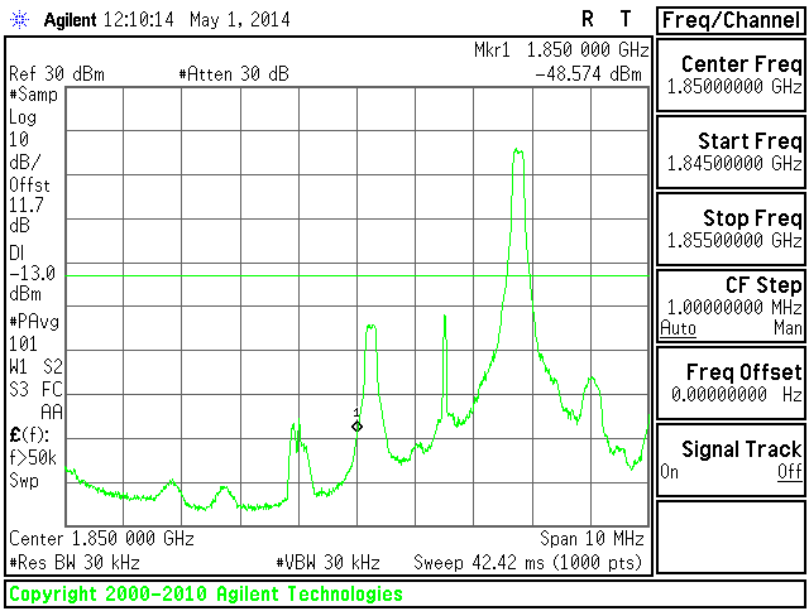
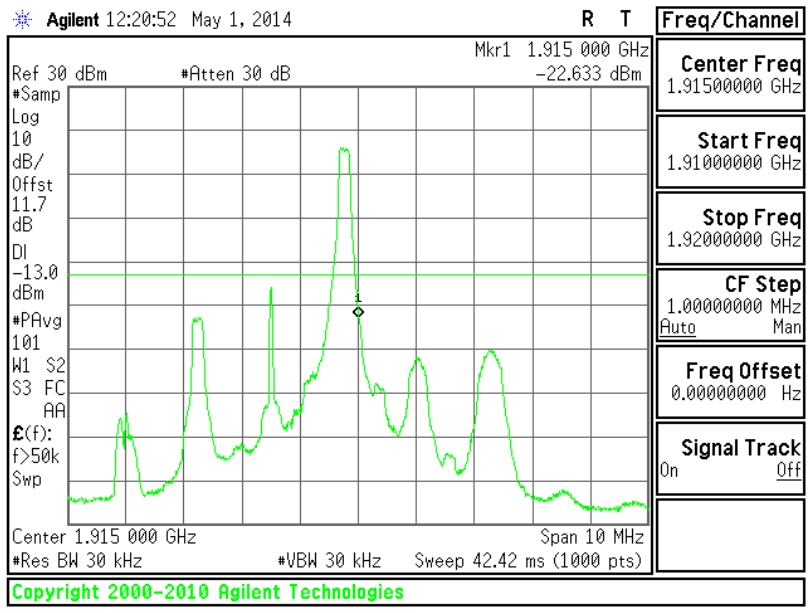
LOW CH, RB1-14



HIGH CH, RB1-14



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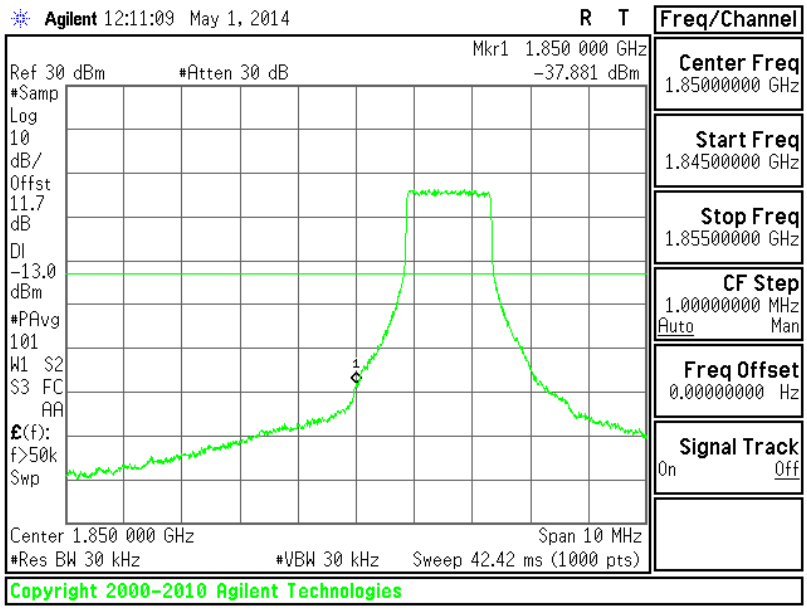
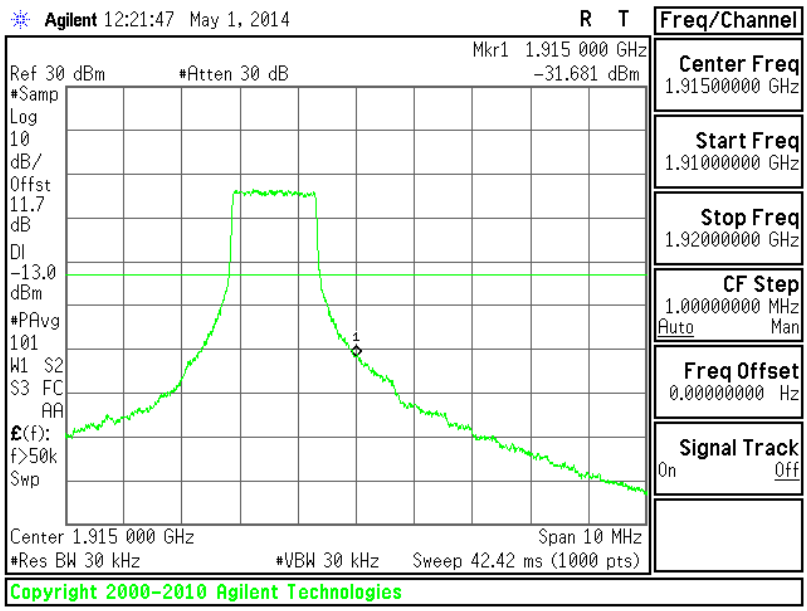
LOW CH, RB8-4



HIGH CH, RB8-4



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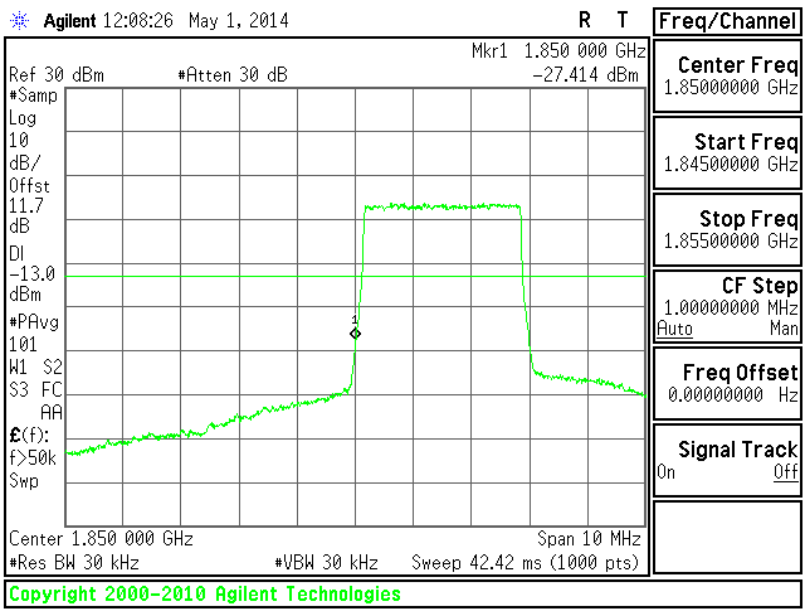
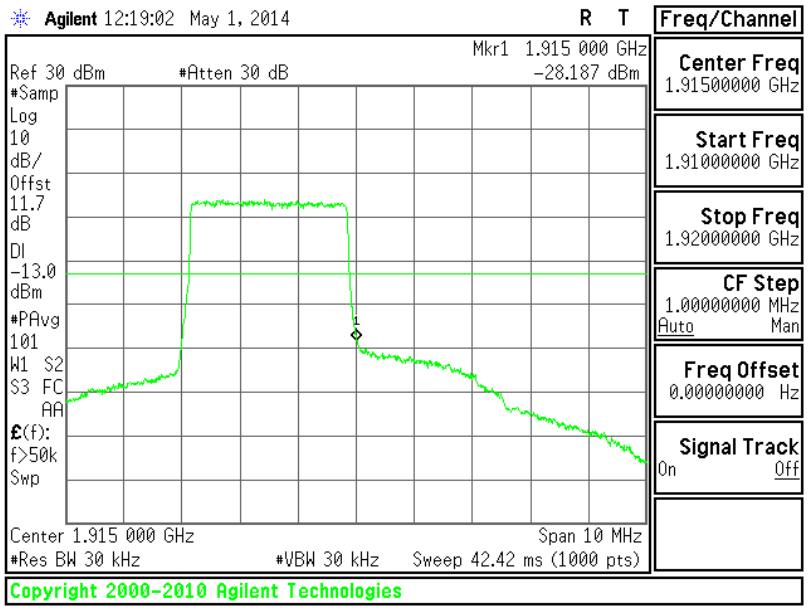
LOW CH, RB15-0



HIGH CH, RB15-0



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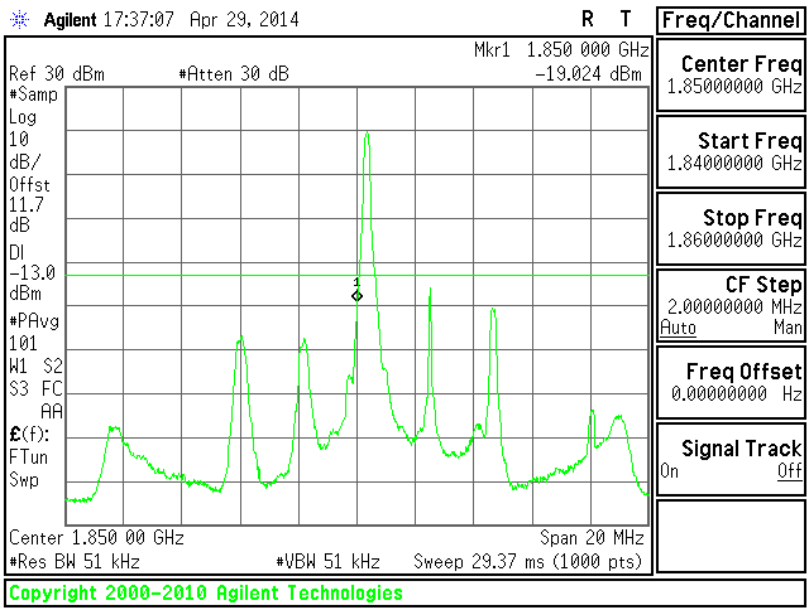
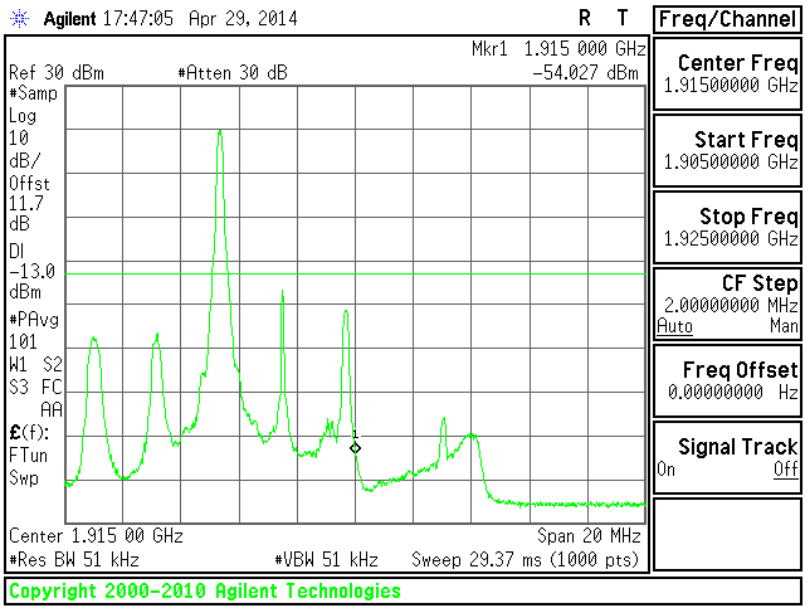
QPSK, (5.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1_0



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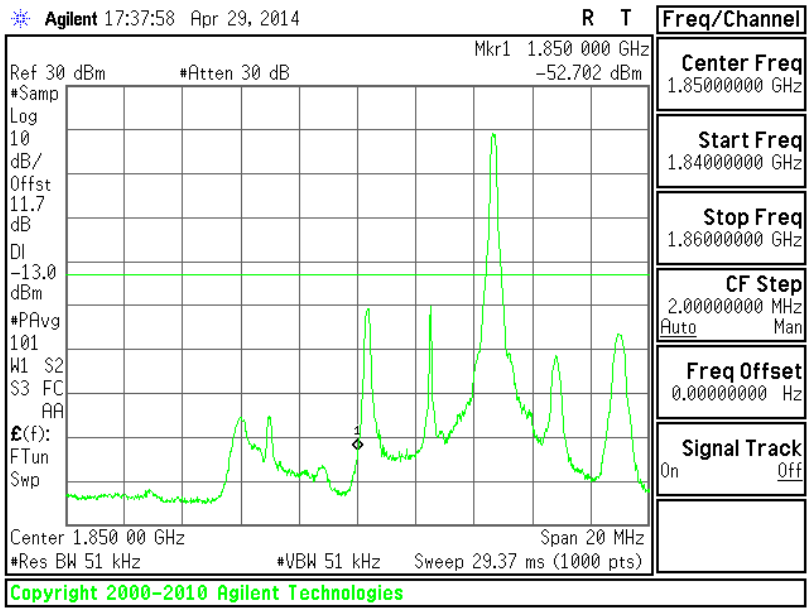
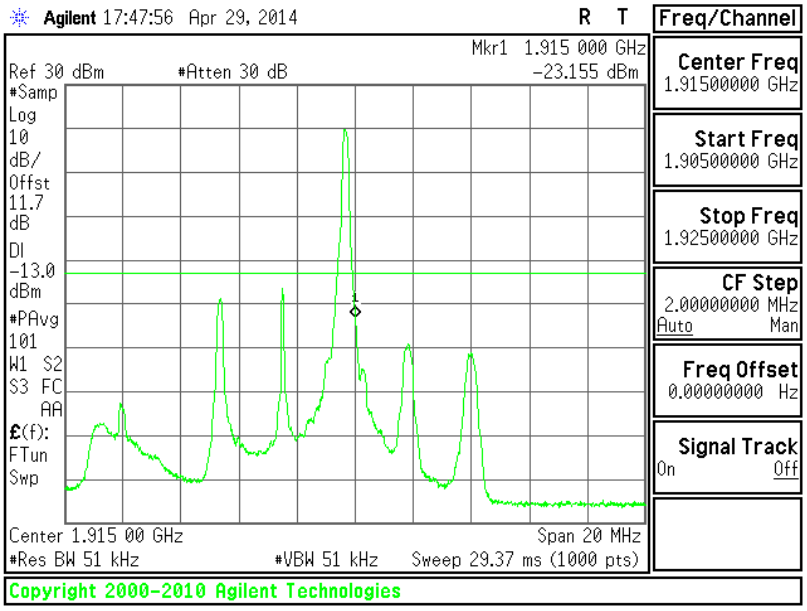
LOW CH, RB1-24



HIGH CH, RB1-24



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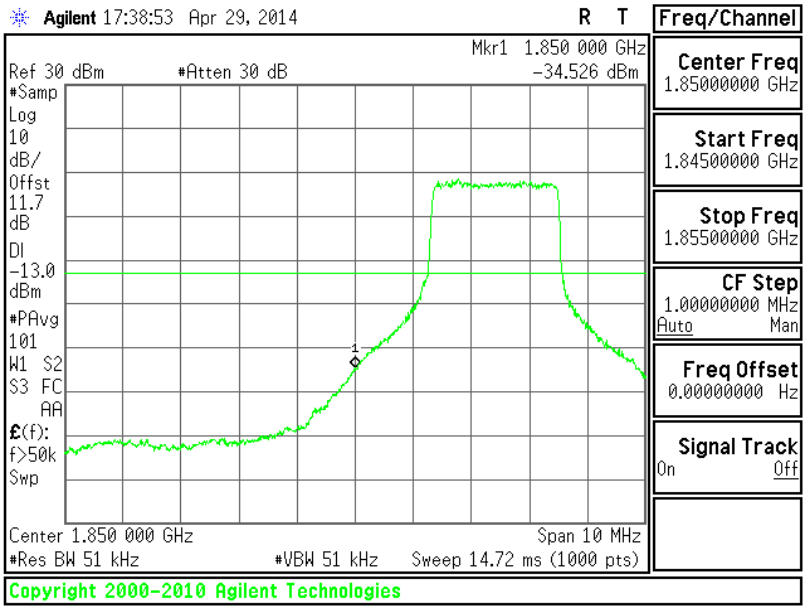
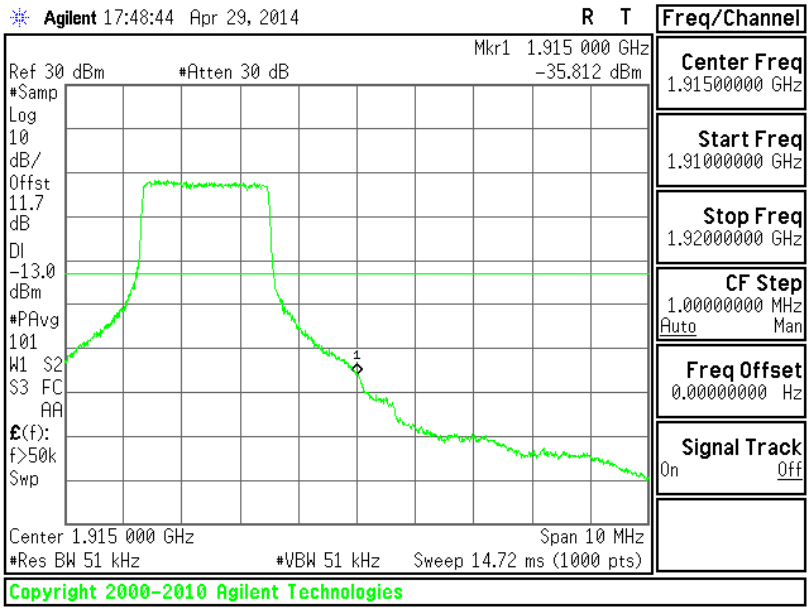
LOW CH, RB12-6



HIGH CH, RB12-6



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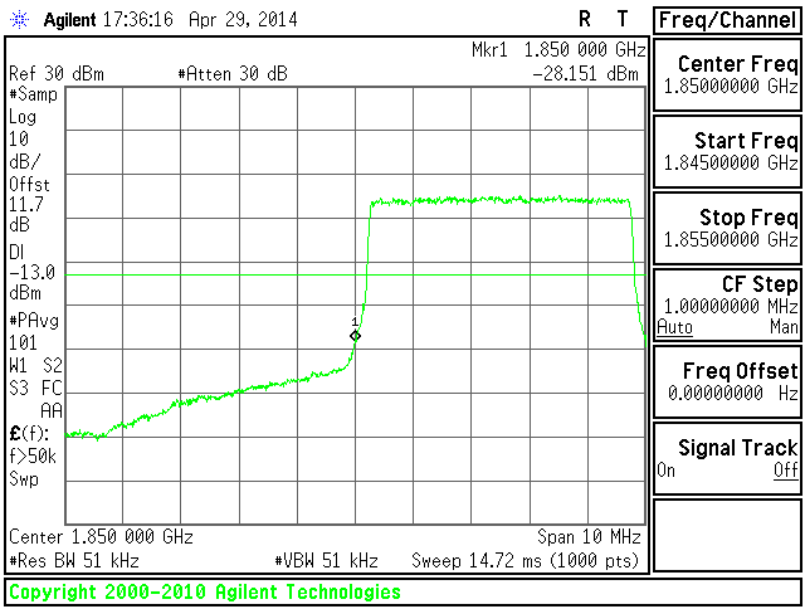
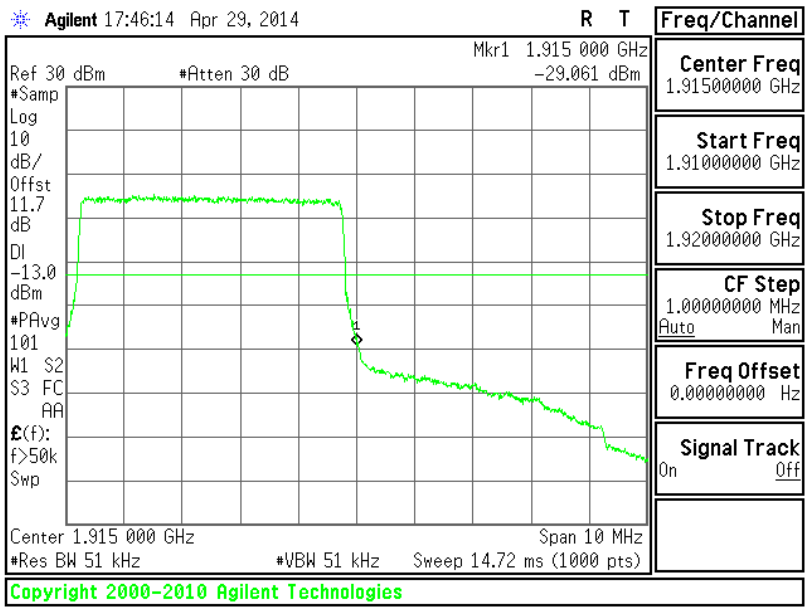
LOW CH, RB25-0



HIGH CH, RB25-0



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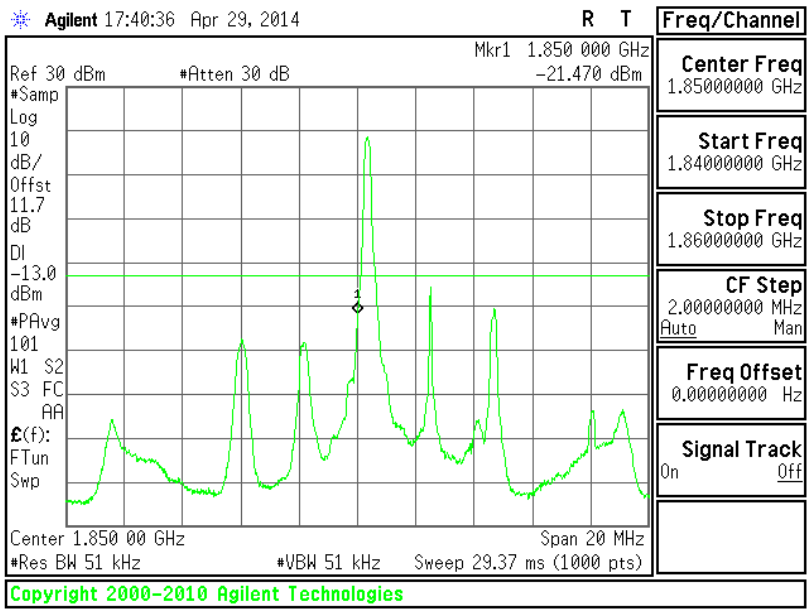
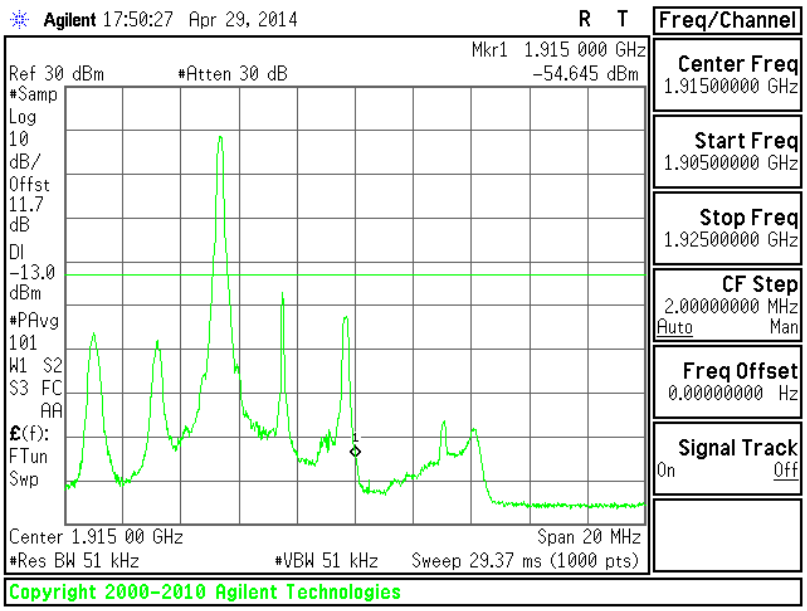
16QAM, (5.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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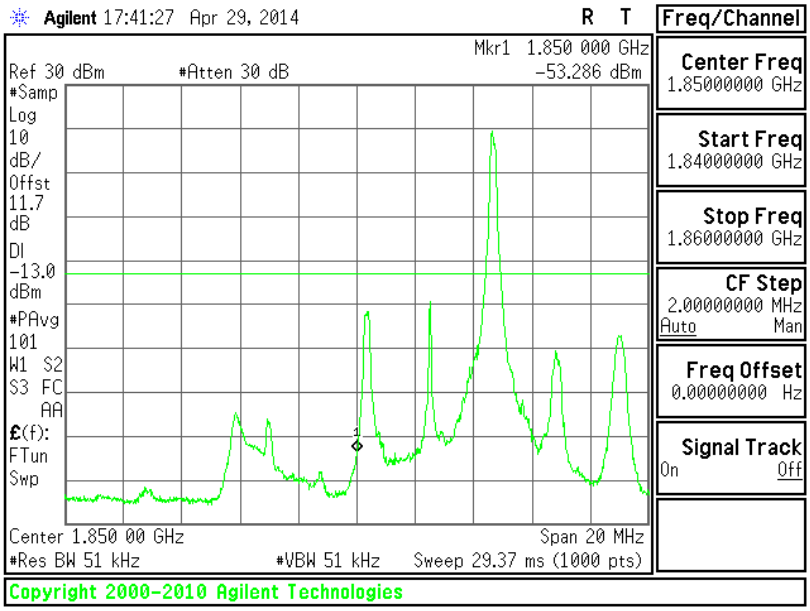
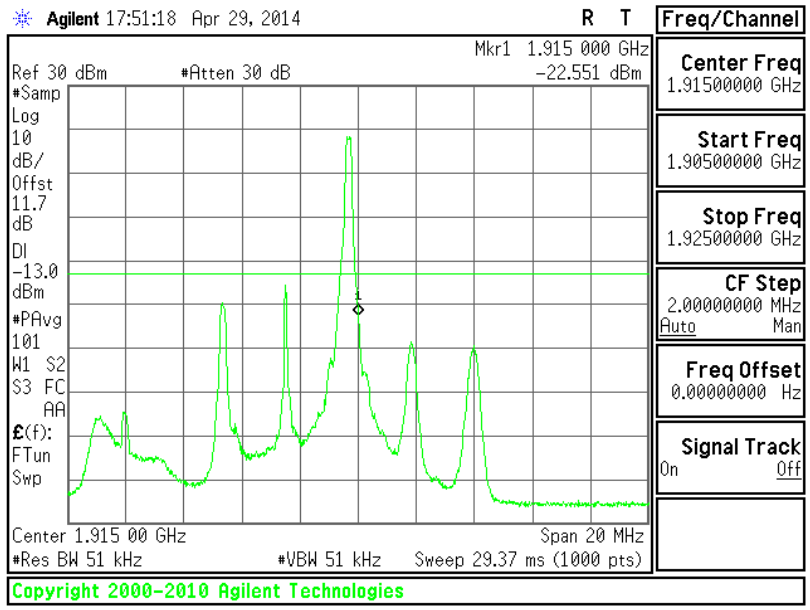
LOW CH, RB1-24



HIGH CH, RB1-24



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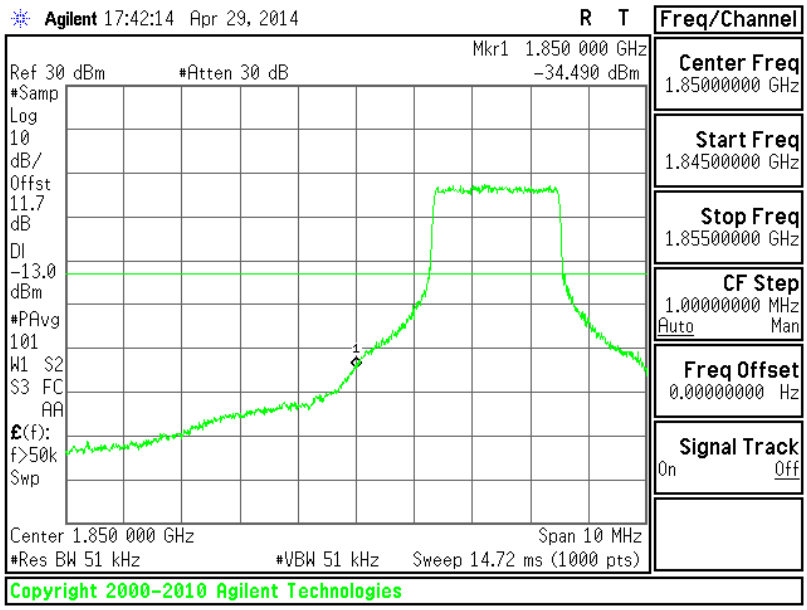
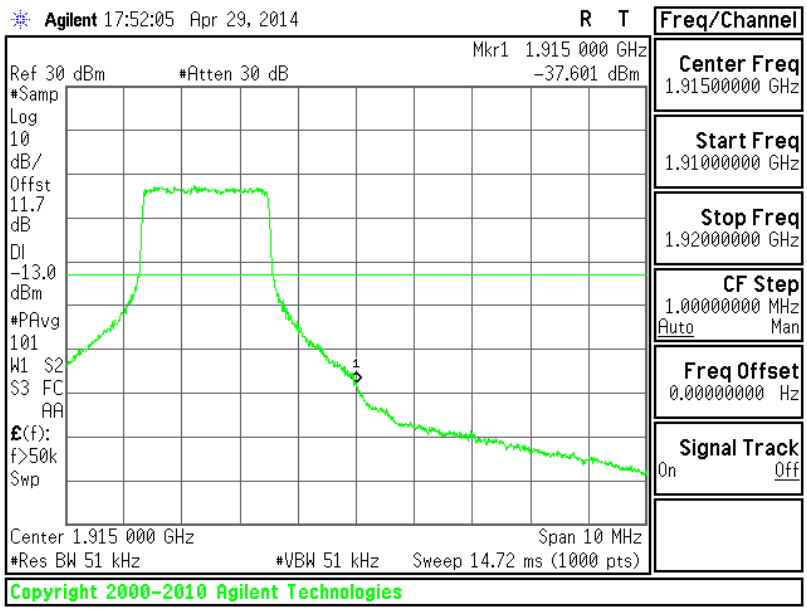
LOW CH, RB12-6



HIGH CH, RB12-6



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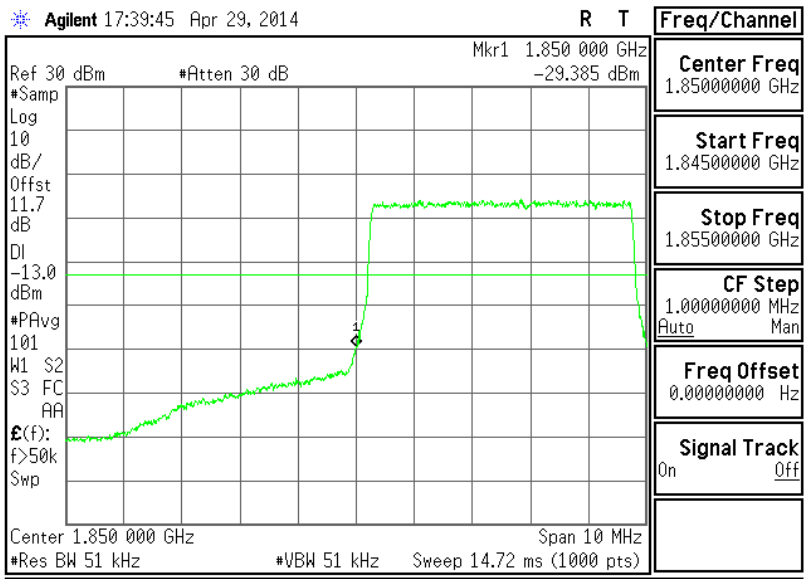
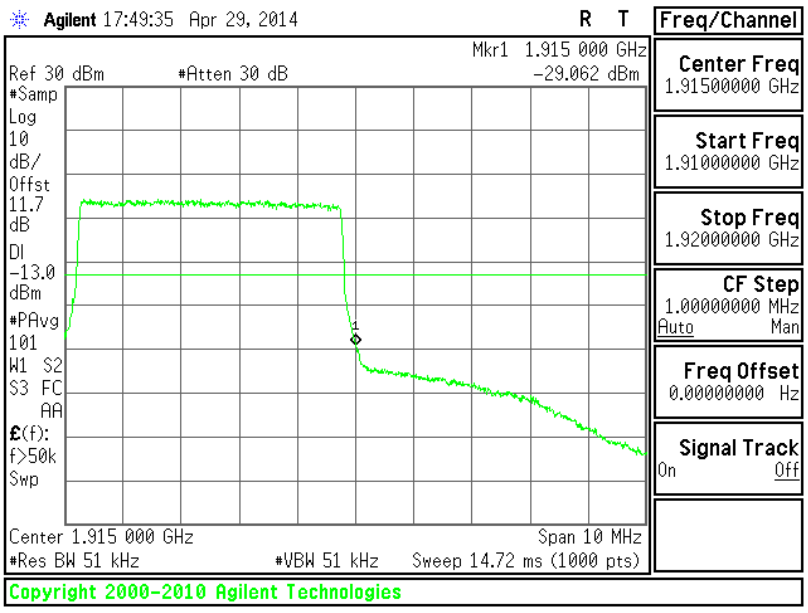
LOW CH, RB25-0



HIGH CH, RB25-0



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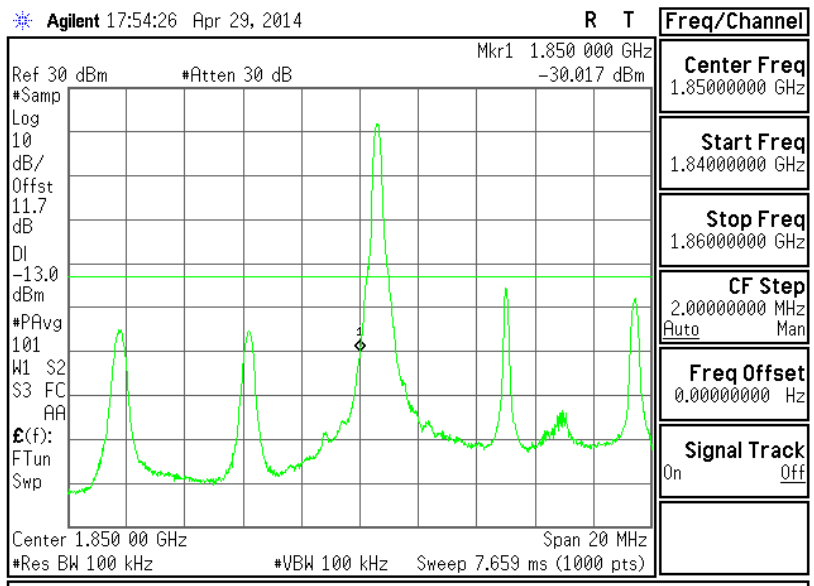
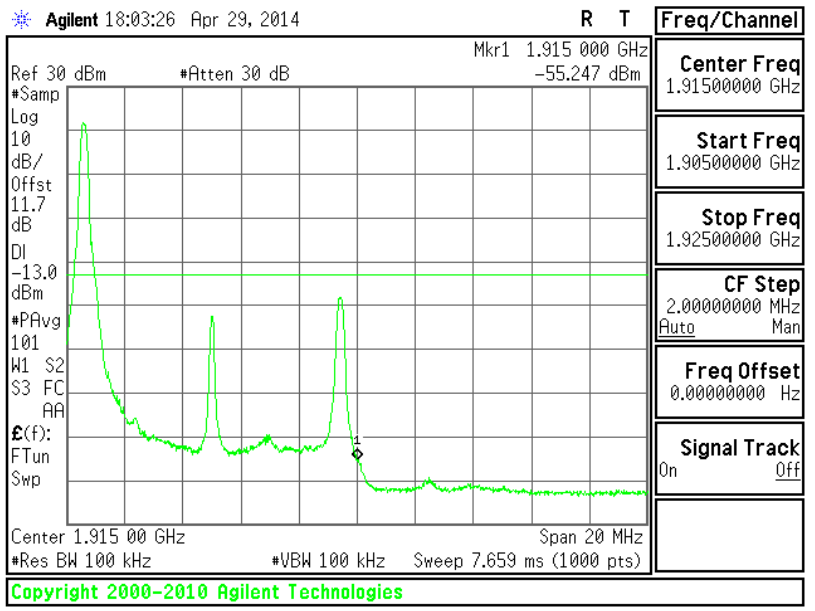
QPSK, (10.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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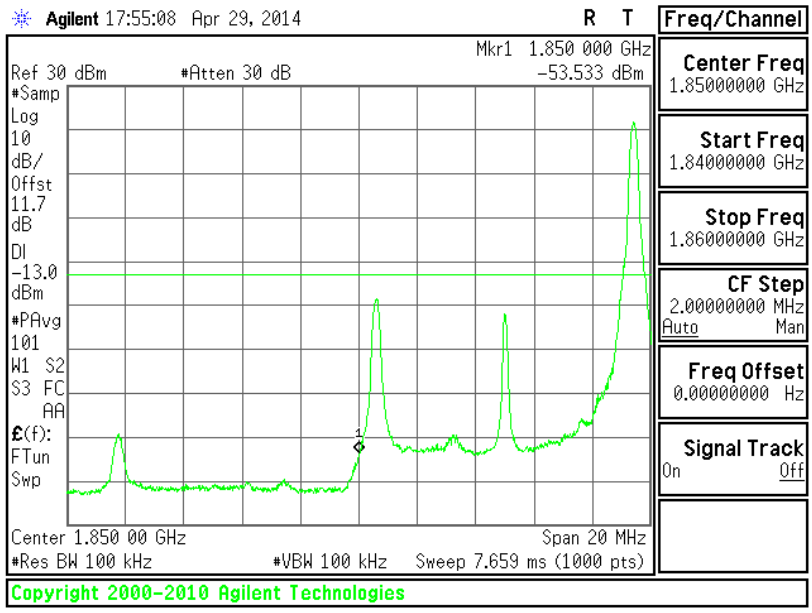
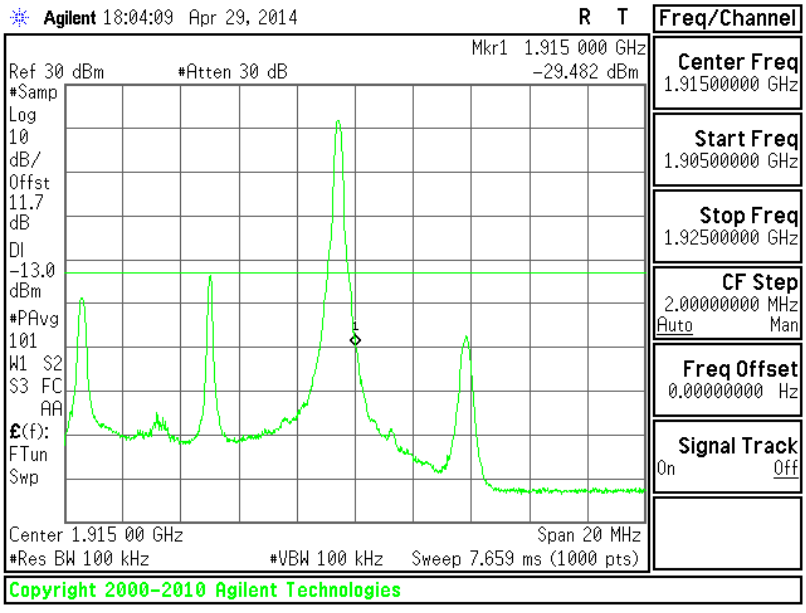
LOW CH, RB1-49



HIGH CH, RB1-49



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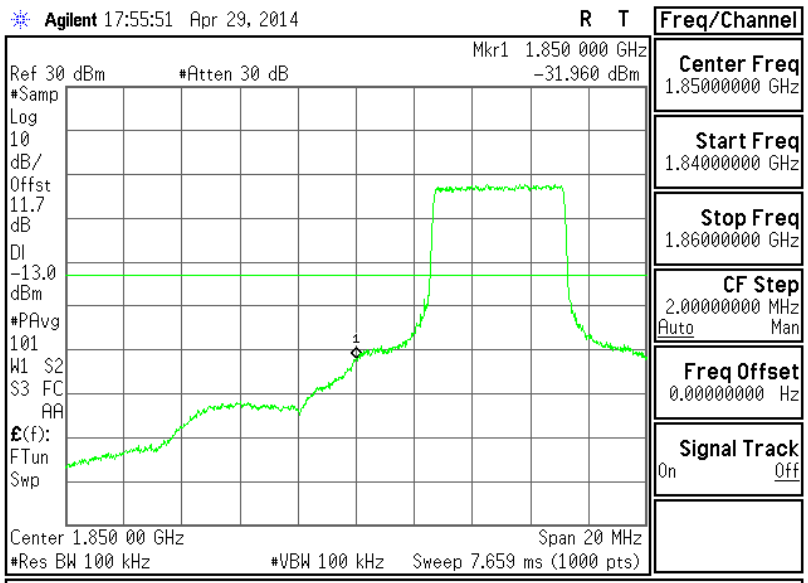
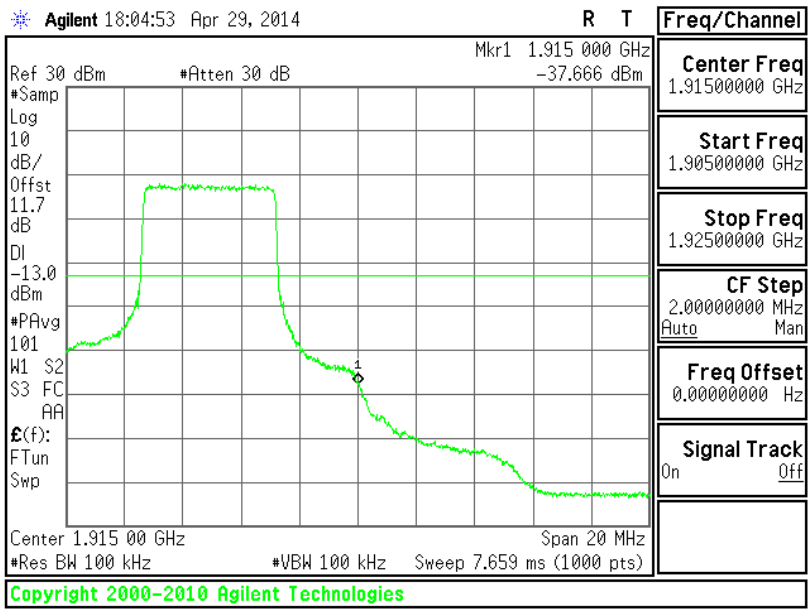
LOW CH, RB25-12



HIGH CH, RB25-12



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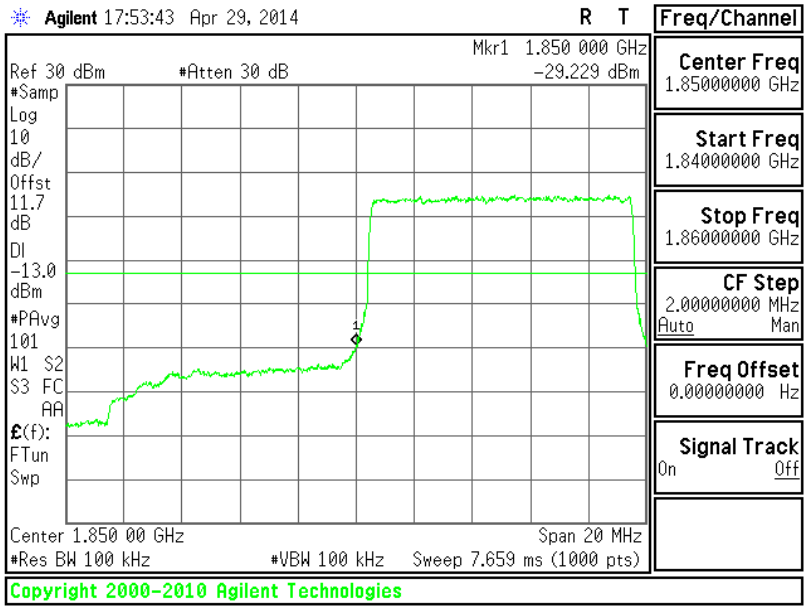
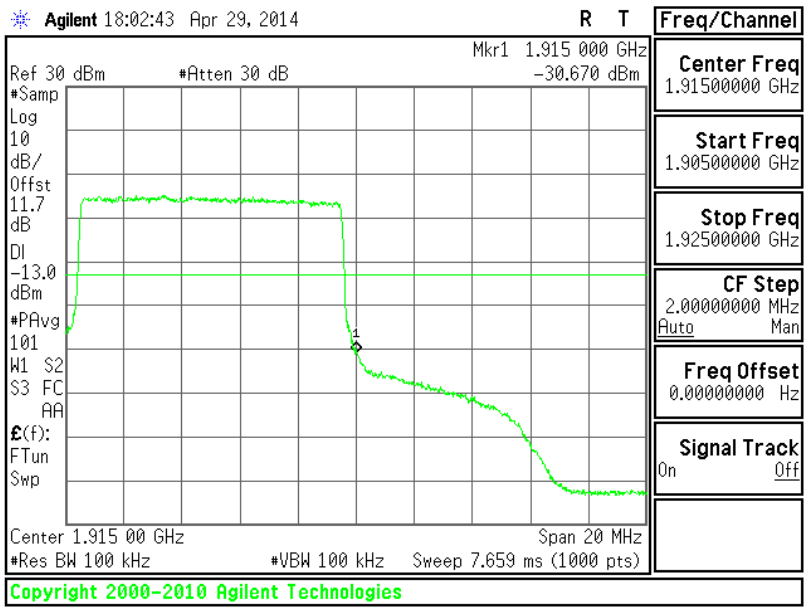
LOW CH, RB50-0



HIGH CH, RB50-0



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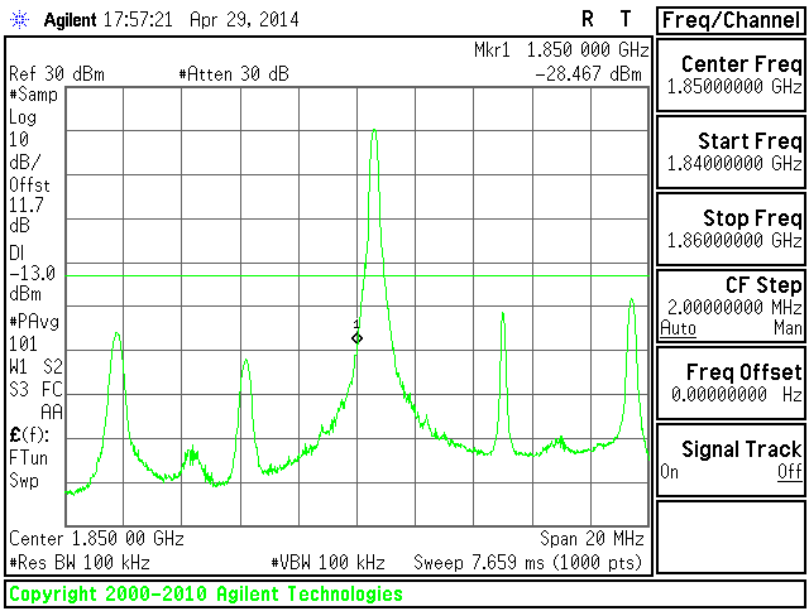
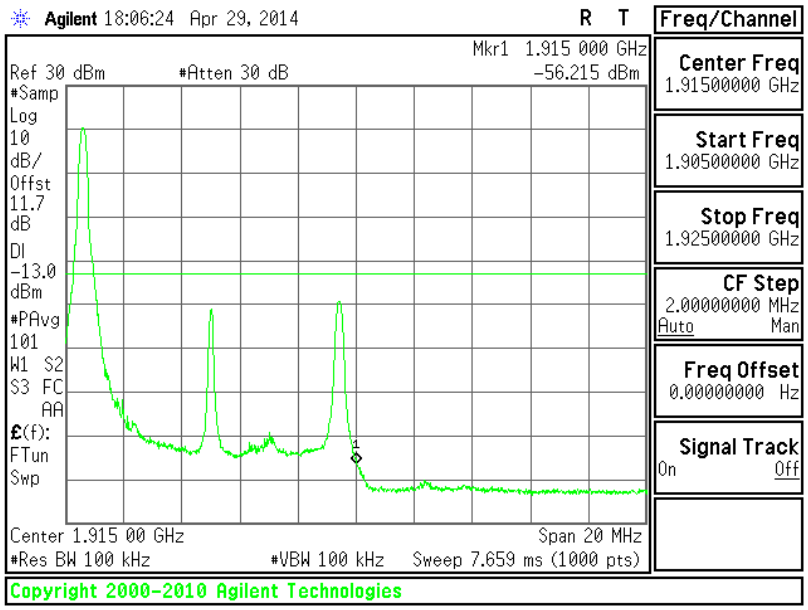
16QAM, (10.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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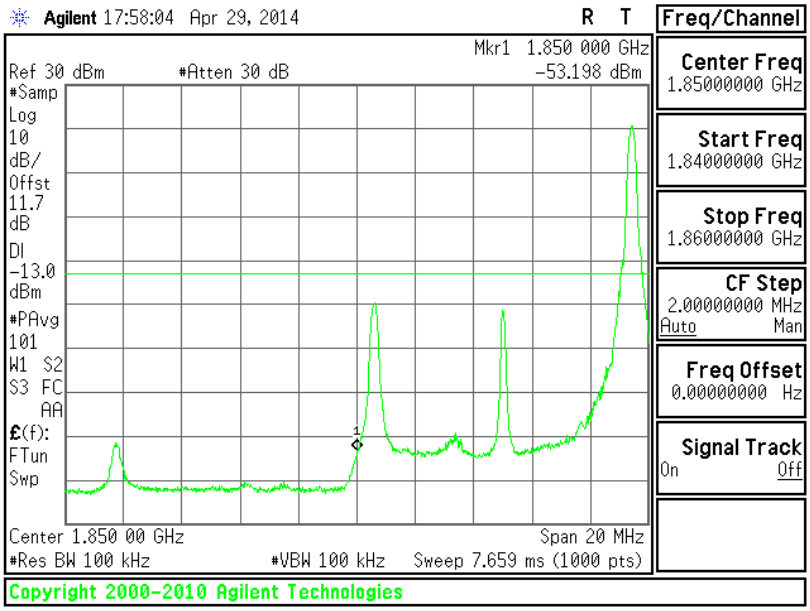
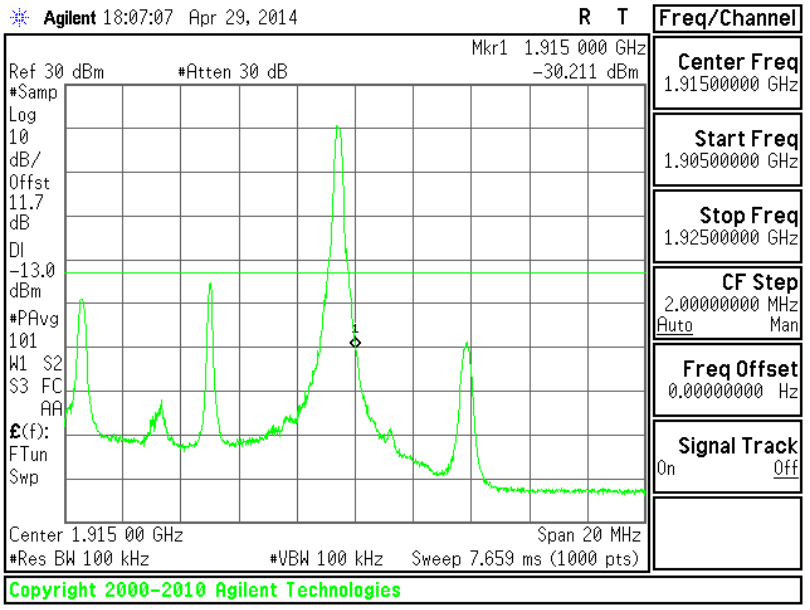
LOW CH, RB1-49



HIGH CH, RB1-49



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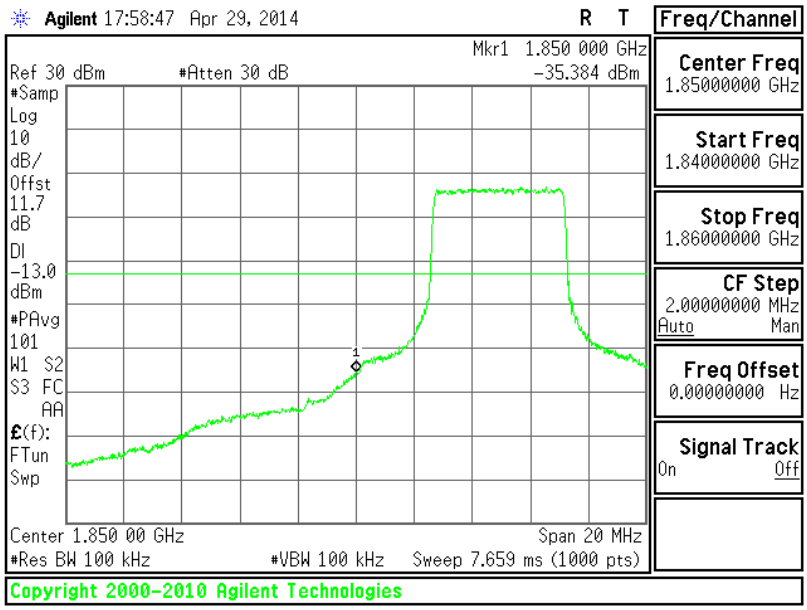
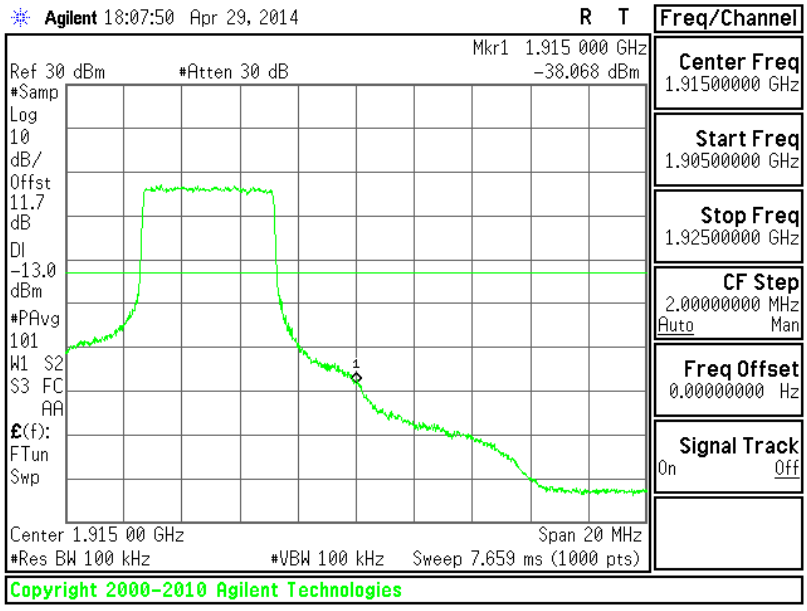
LOW CH, RB25-12



HIGH CH, RB25-12



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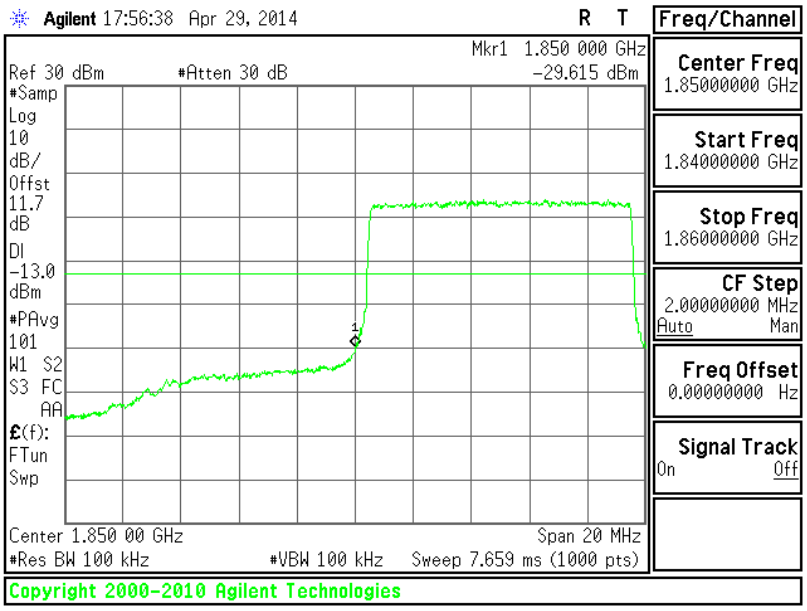
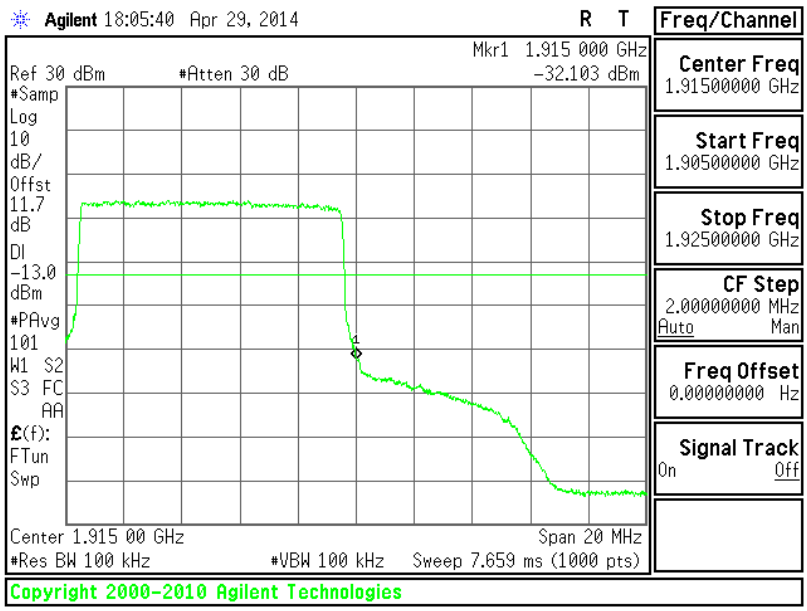
LOW CH, RB50-0



HIGH CH, RB50-0



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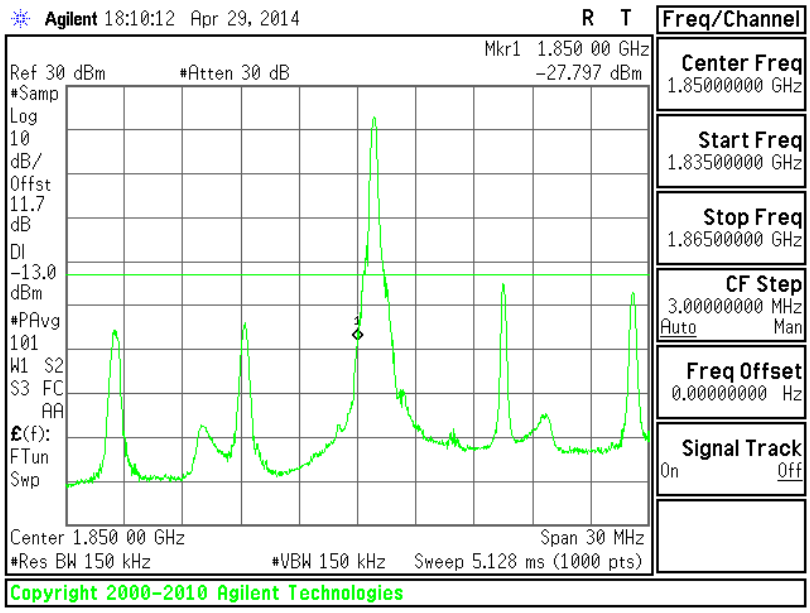
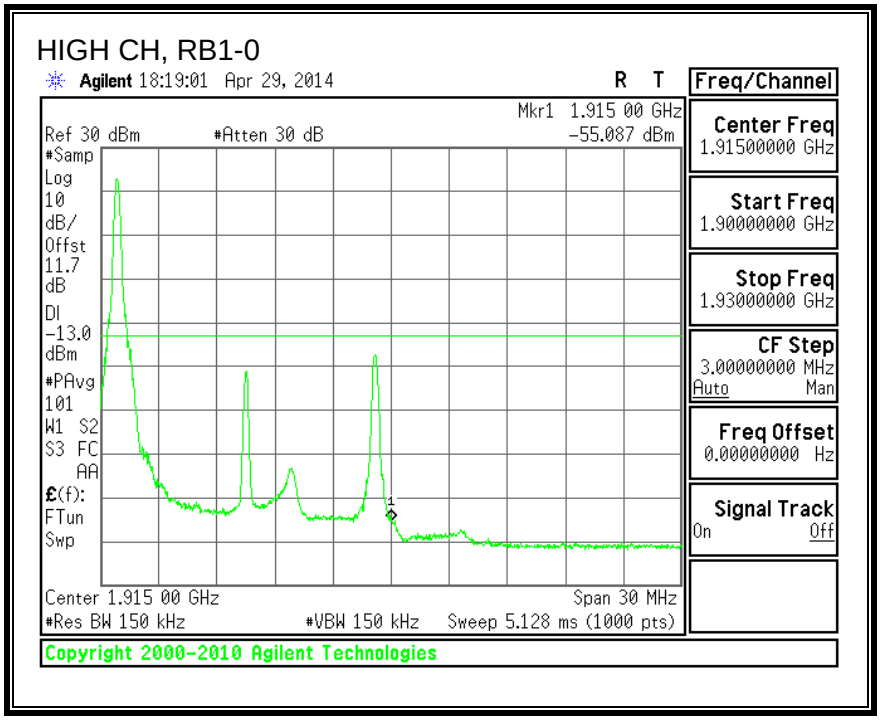
QPSK, (15.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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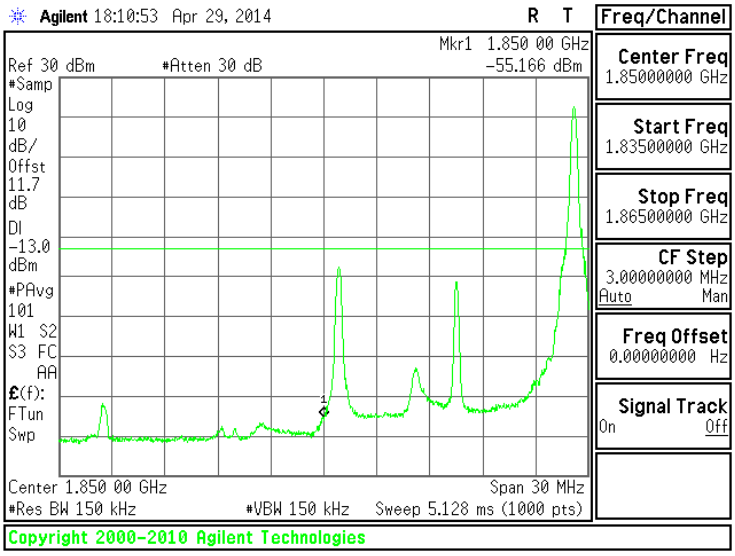
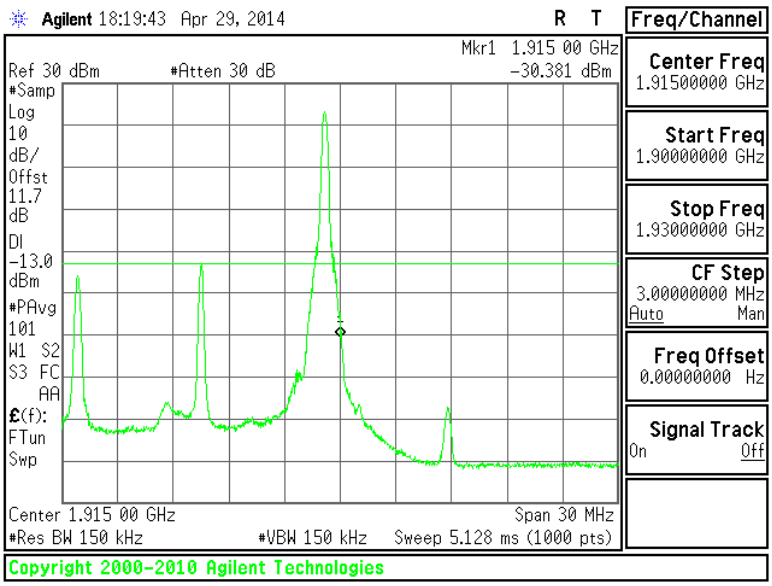
LOW CH, RB1-74



HIGH CH, RB1-74



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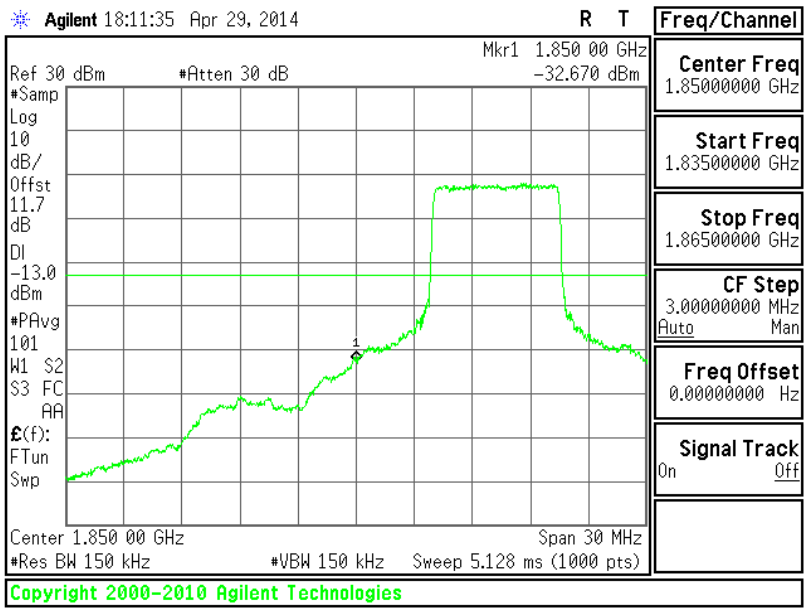
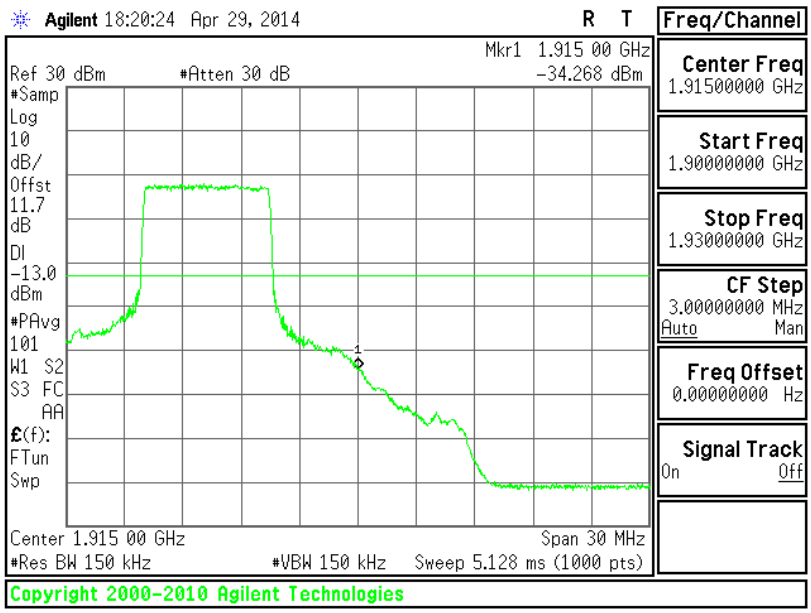
HIGH CH, RB36-18



HIGH CH, RB36-18



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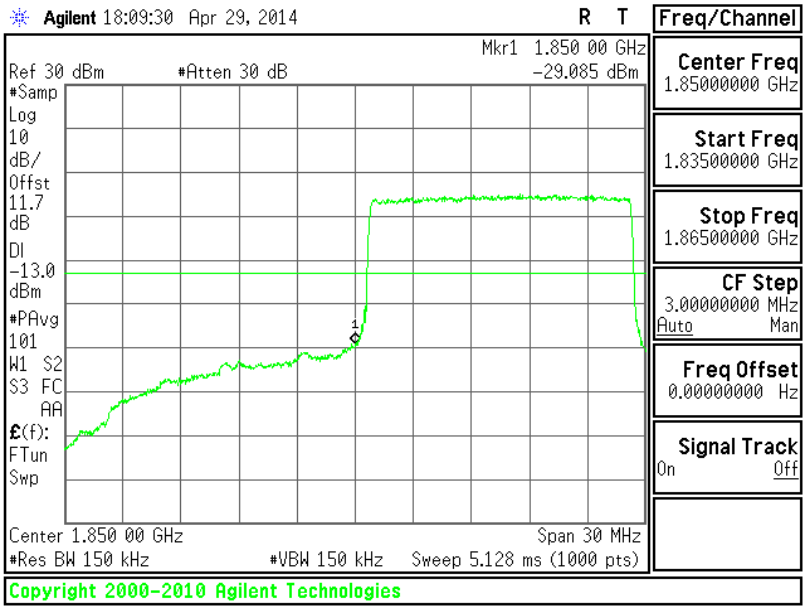
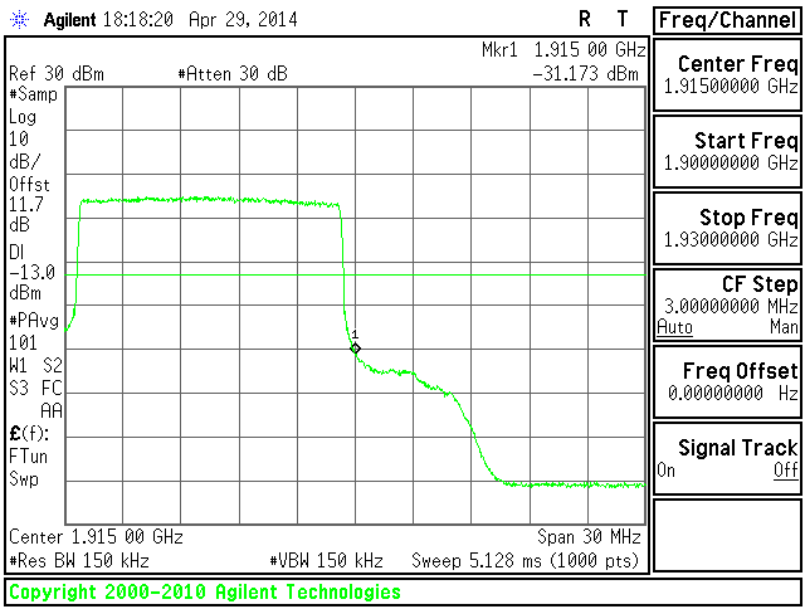
LOW CH, RB75-0



HIGH CH, RB75-0



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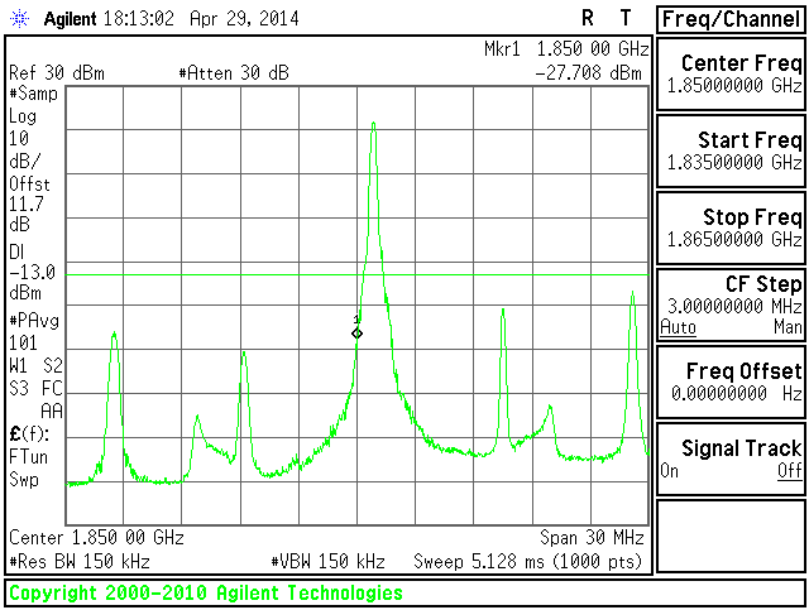
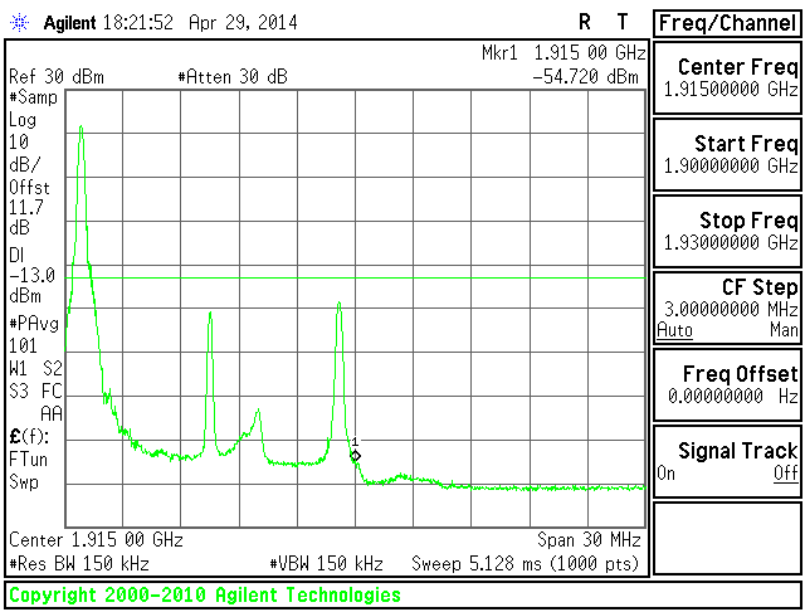
16QAM, (15.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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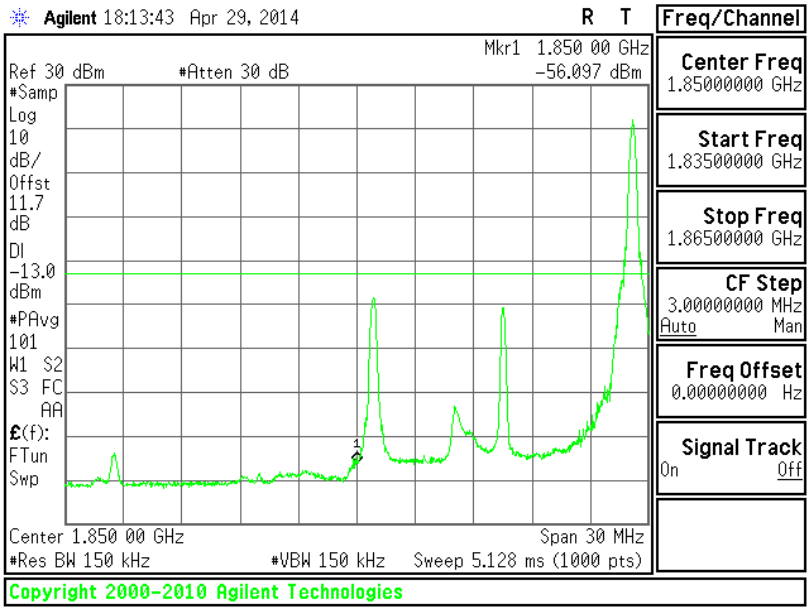
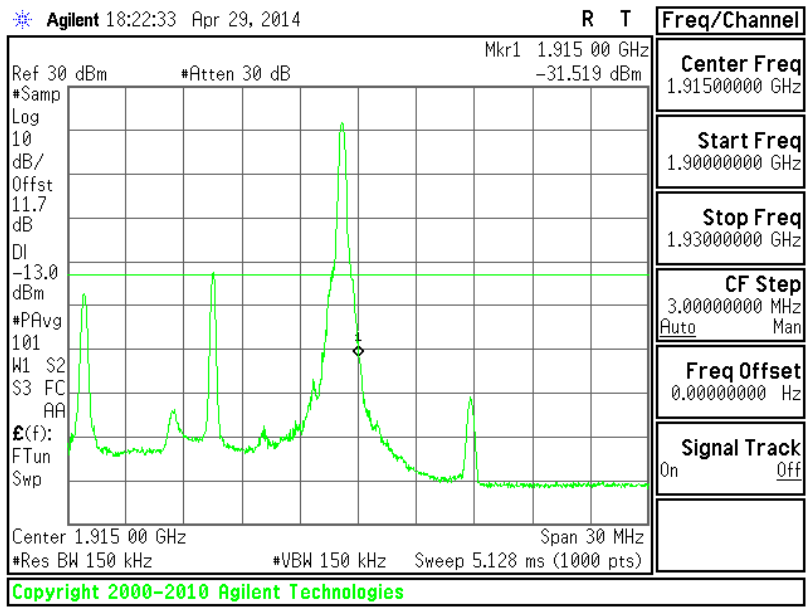
LOW CH, RB1-74



HIGH CH, RB1-74



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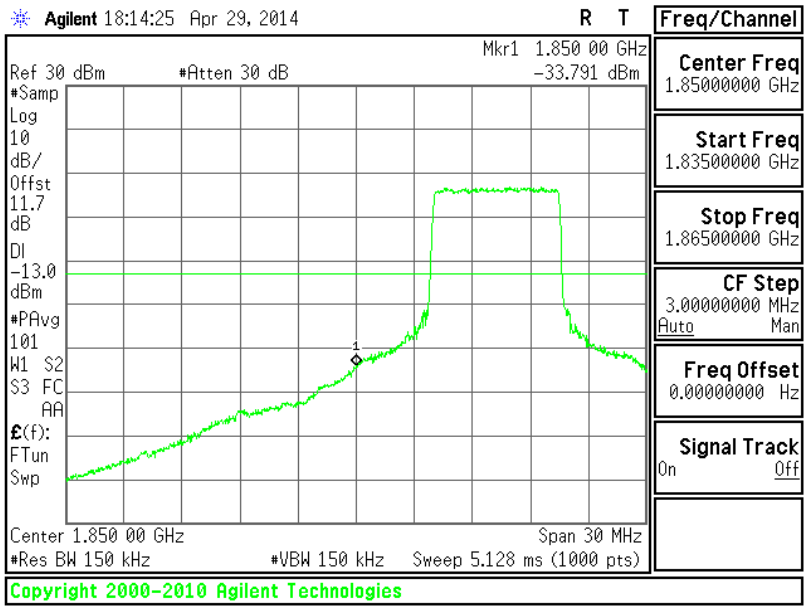
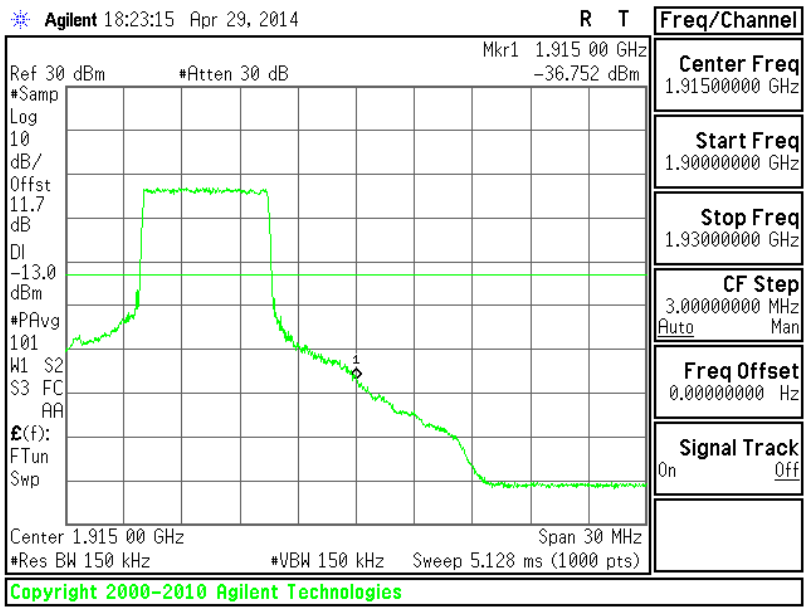
LOW CH, RB36-18



HIGH CH, RB36-18



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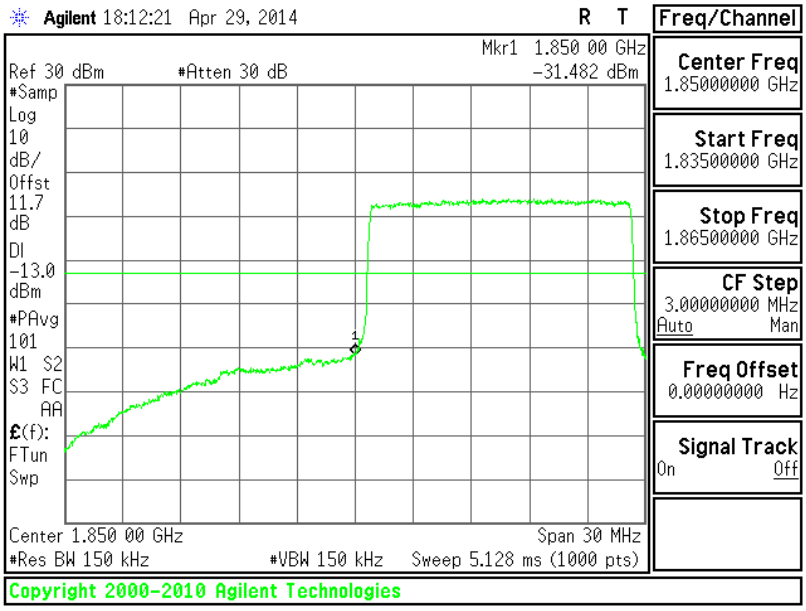
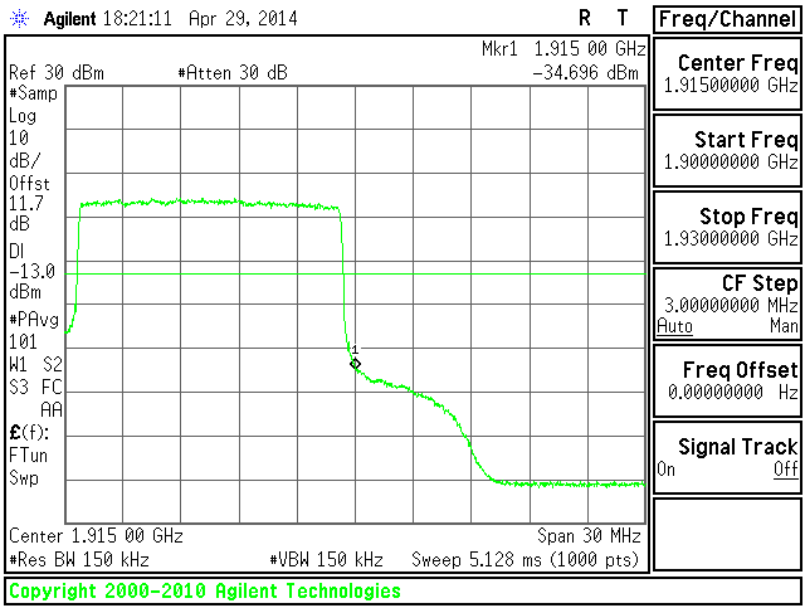
LOW CH, RB75-0



HIGH CH, RB75-0



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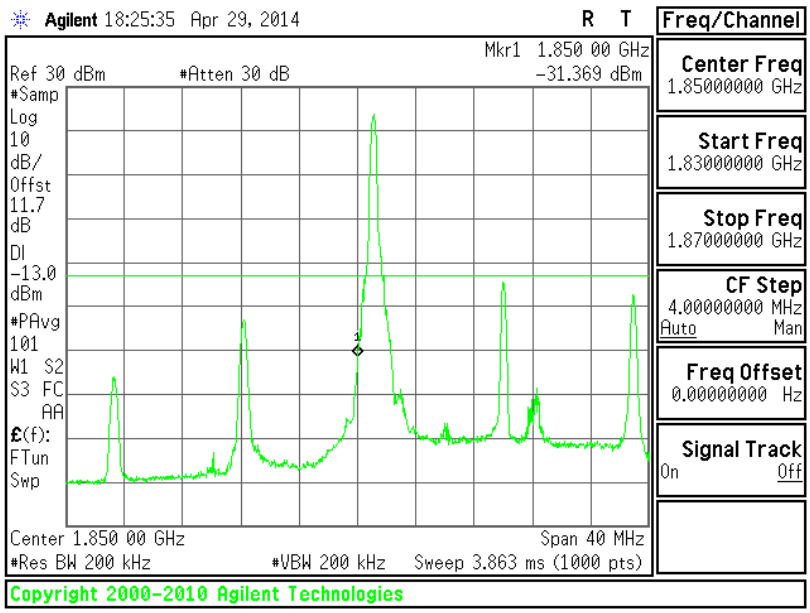
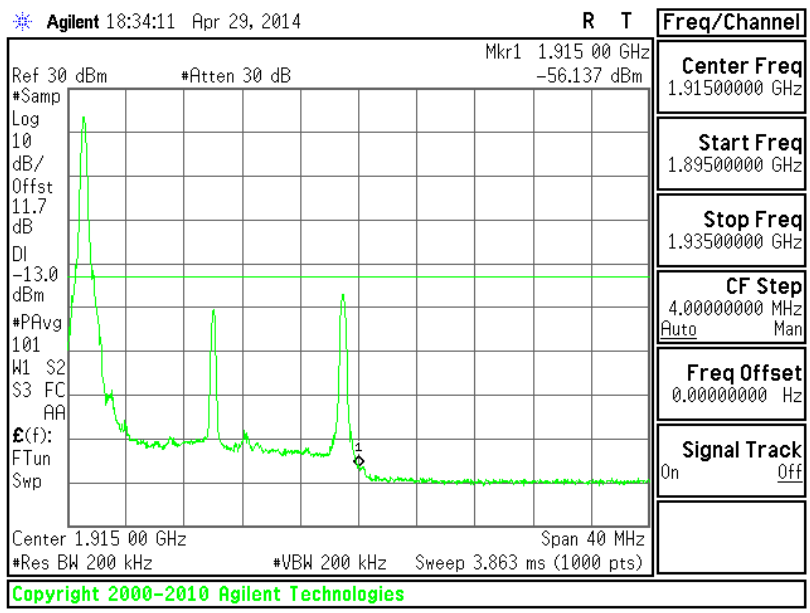
QPSK, (20.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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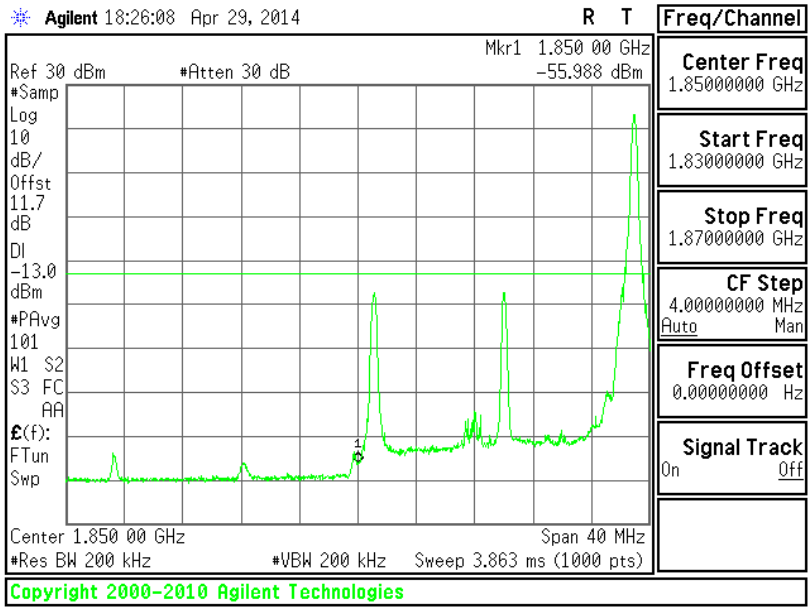
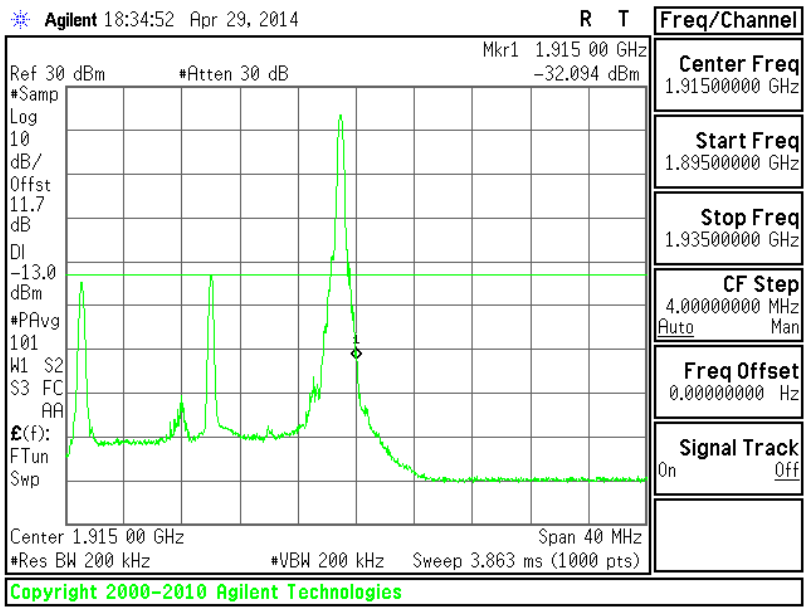
LOW CH, RB1-99



HIGH CH, RB1-99



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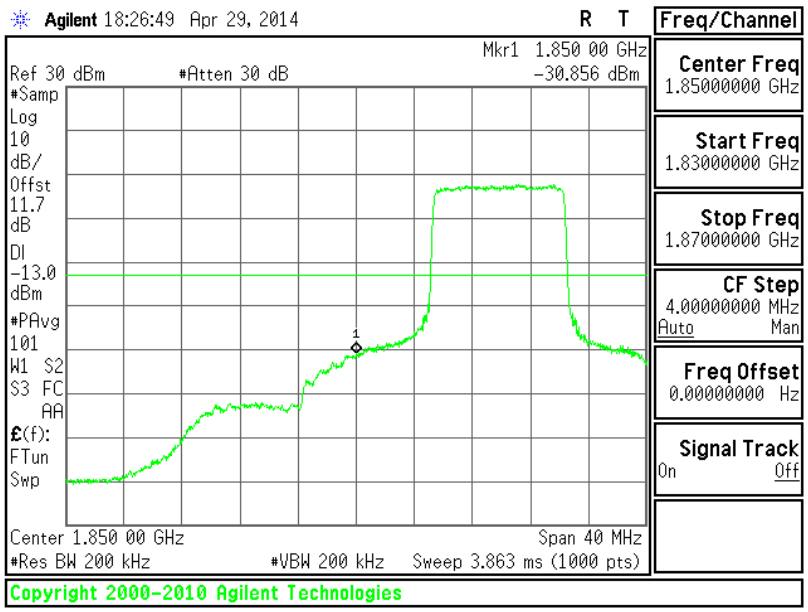
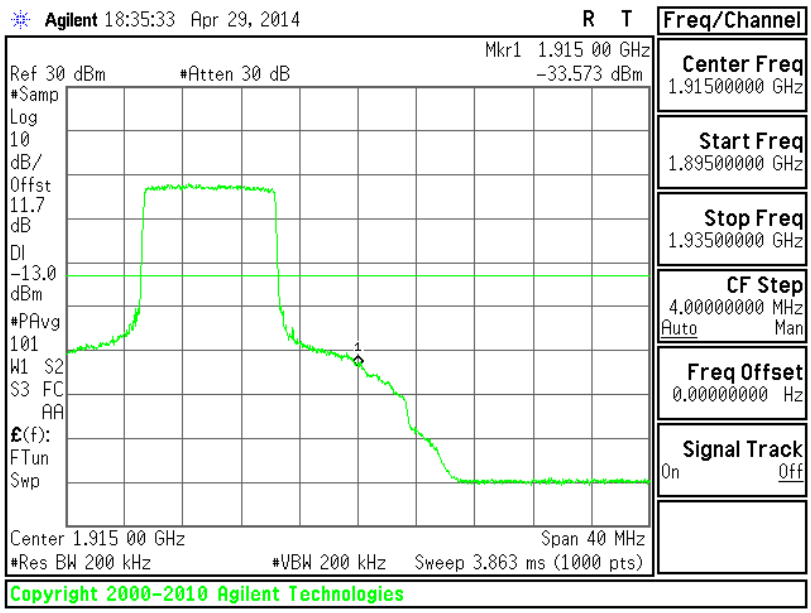
LOW CH, RB50-24



HIGH CH, RB50-24



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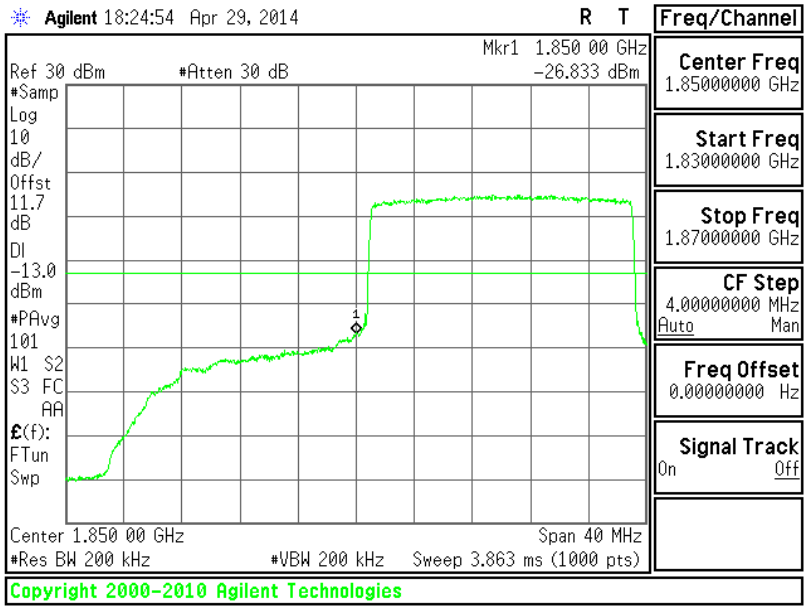
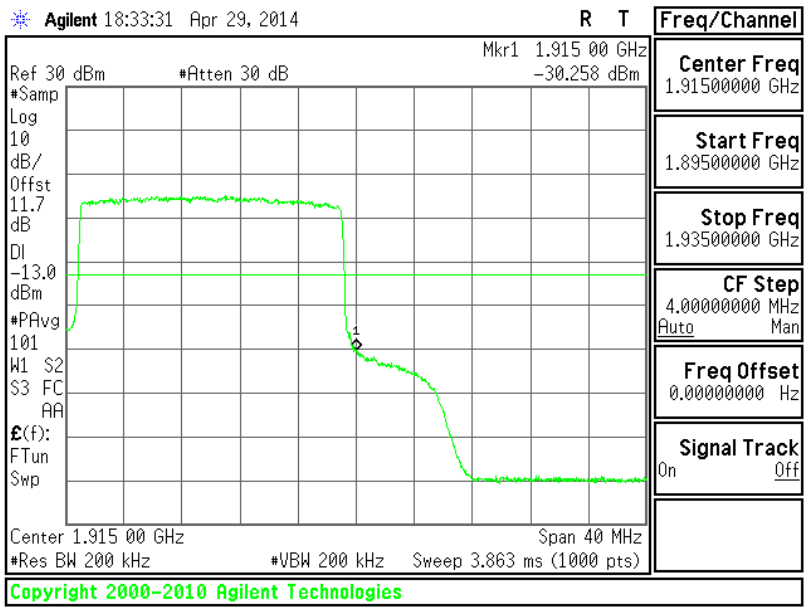
LOW CH, RB100-0



HIGH CH, RB100-0



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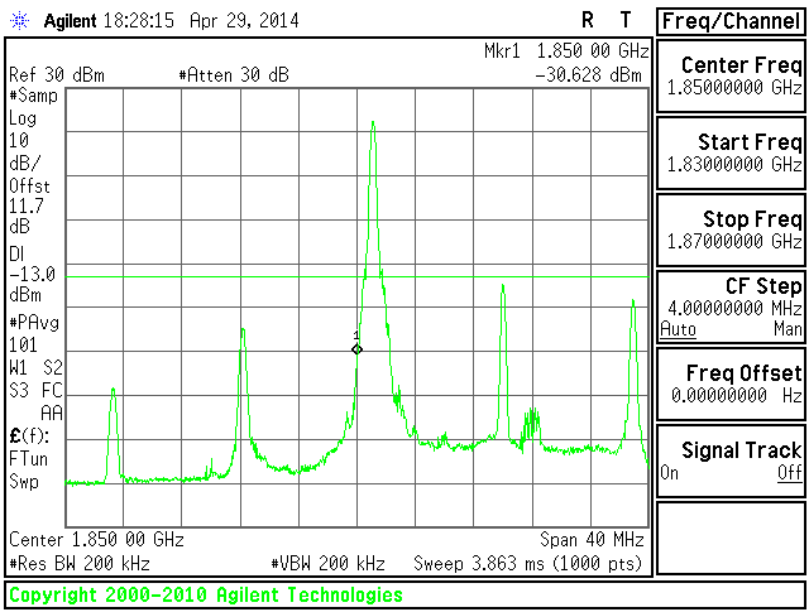
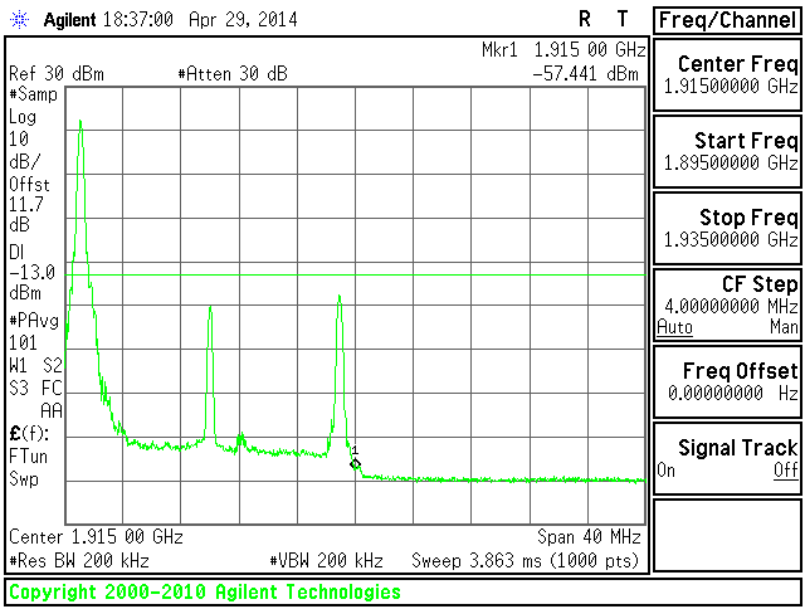
16QAM, (20.0 MHz BAND WIDTH)

LOW CH, RB1_0



HIGH CH, RB1-0



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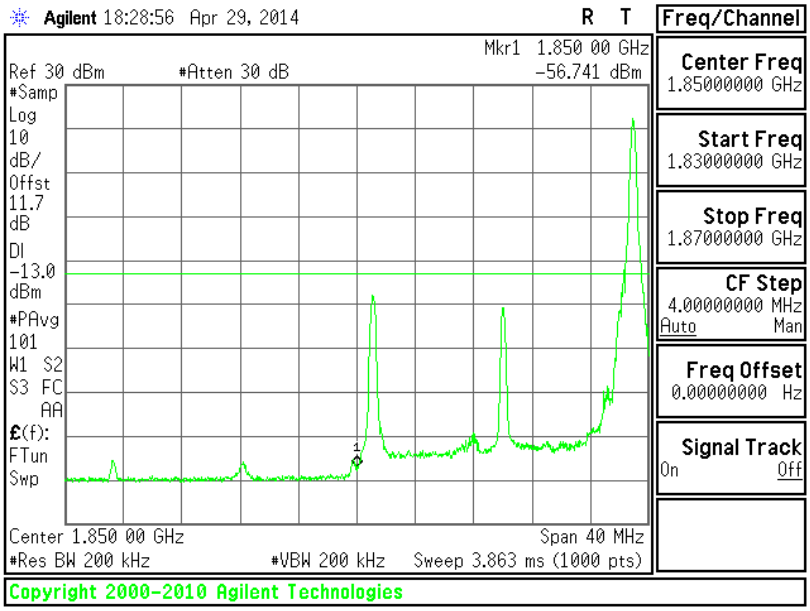
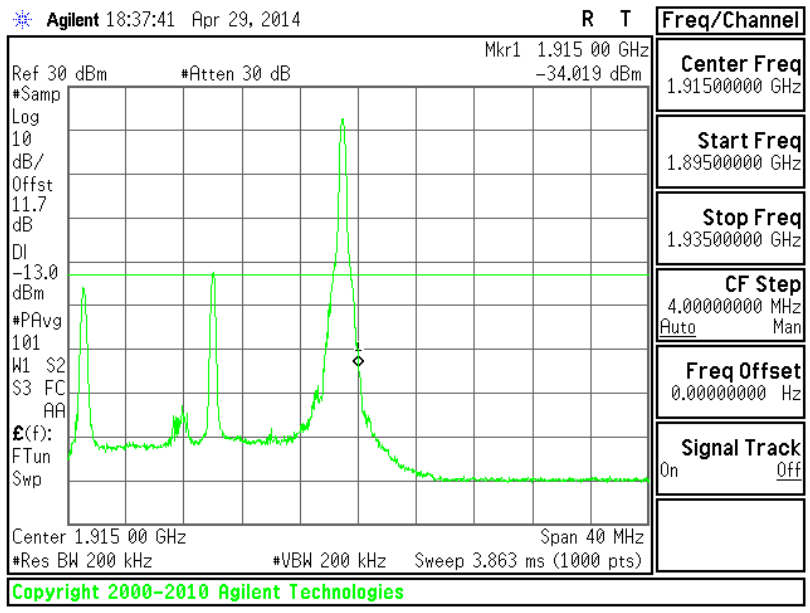
LOW CH, RB1-99



HIGH CH, RB1-99



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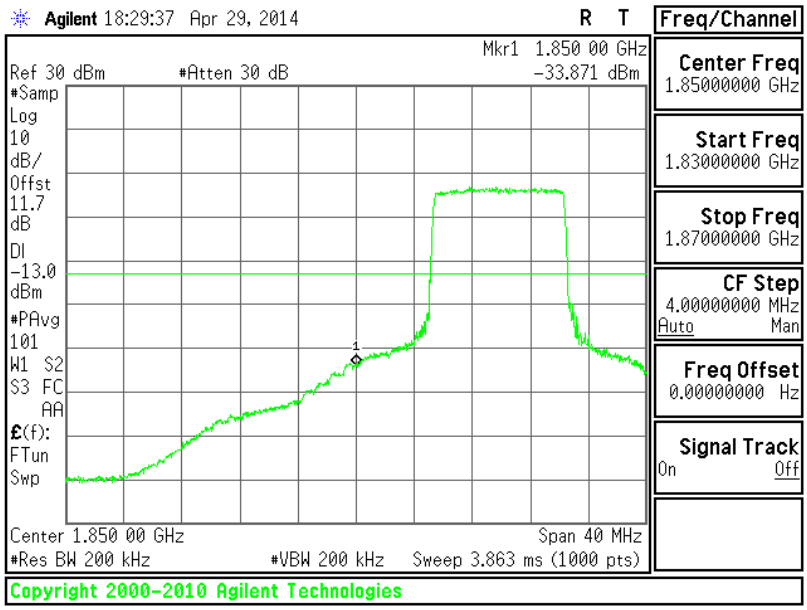
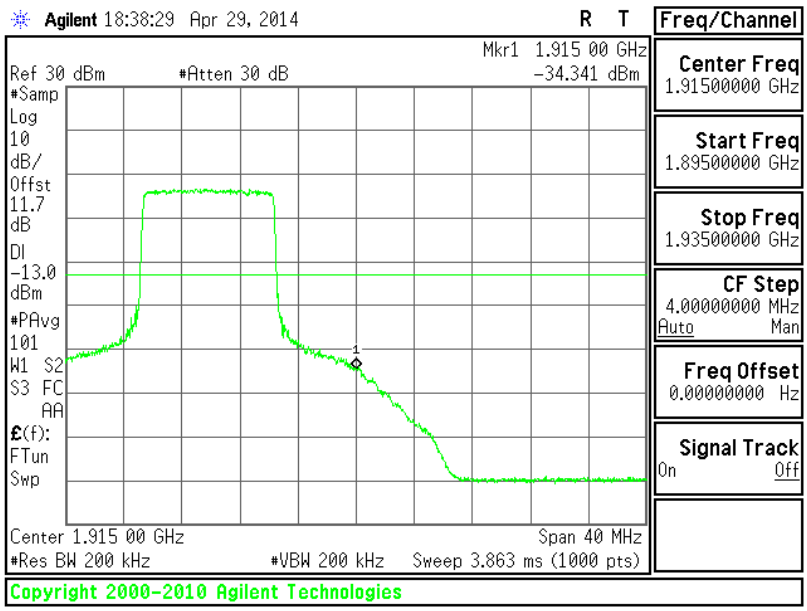
LOW CH, RB50-24



HIGH CH, RB50-24



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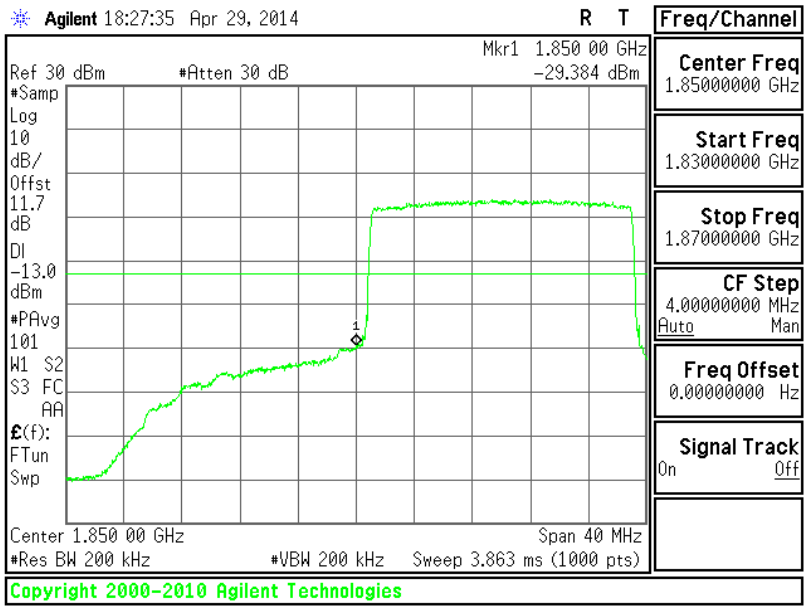
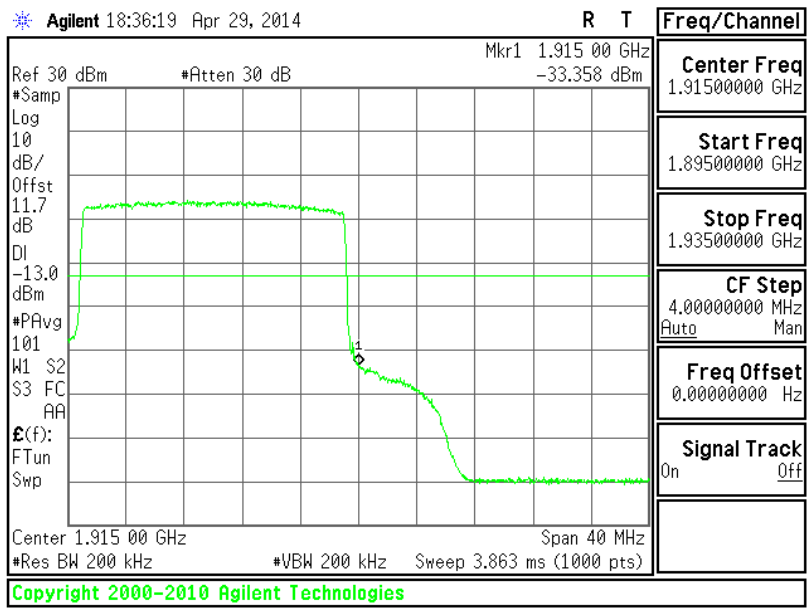
LOW CH, RB100-0



HIGH CH, RB100-0



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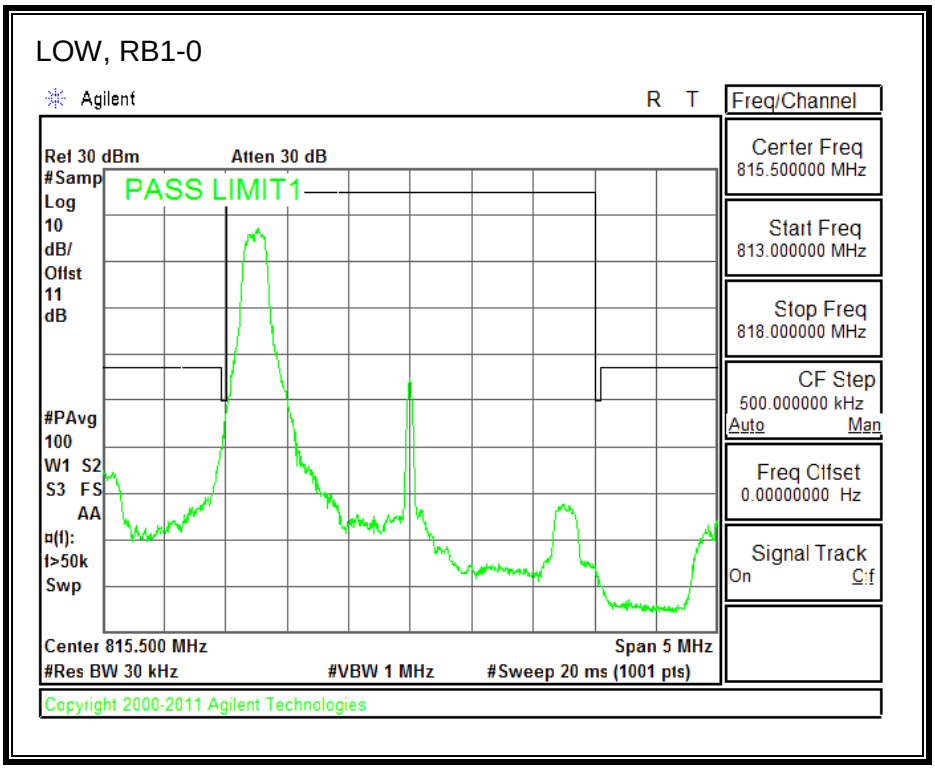
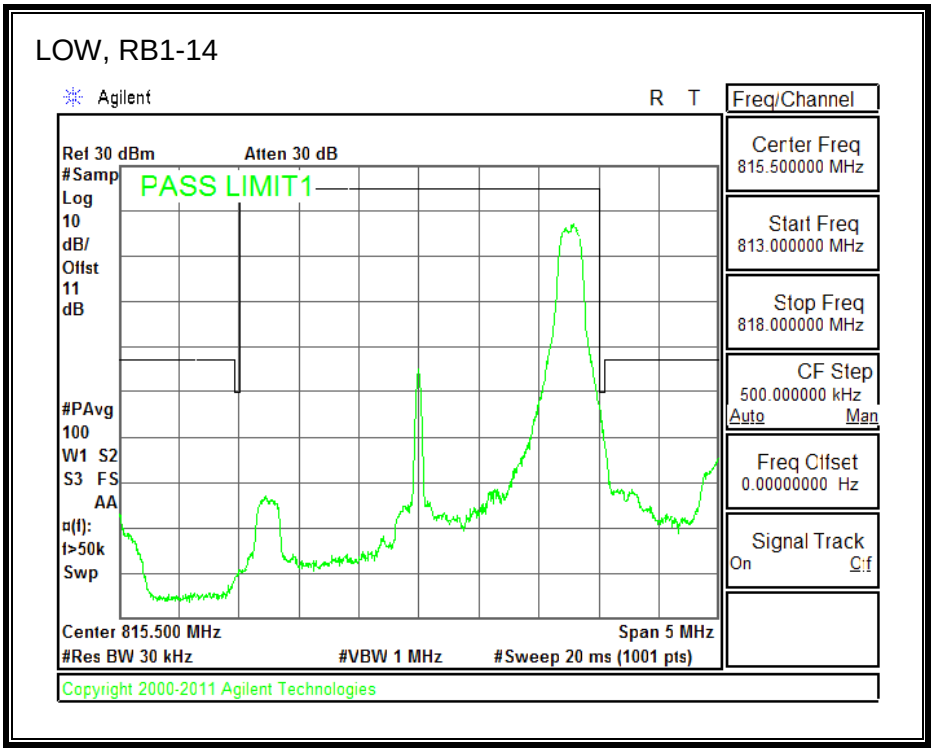
8.2.7. LTE BAND 26 EMISSION MASK

QPSK, (3.0 MHz BAND WIDTH)





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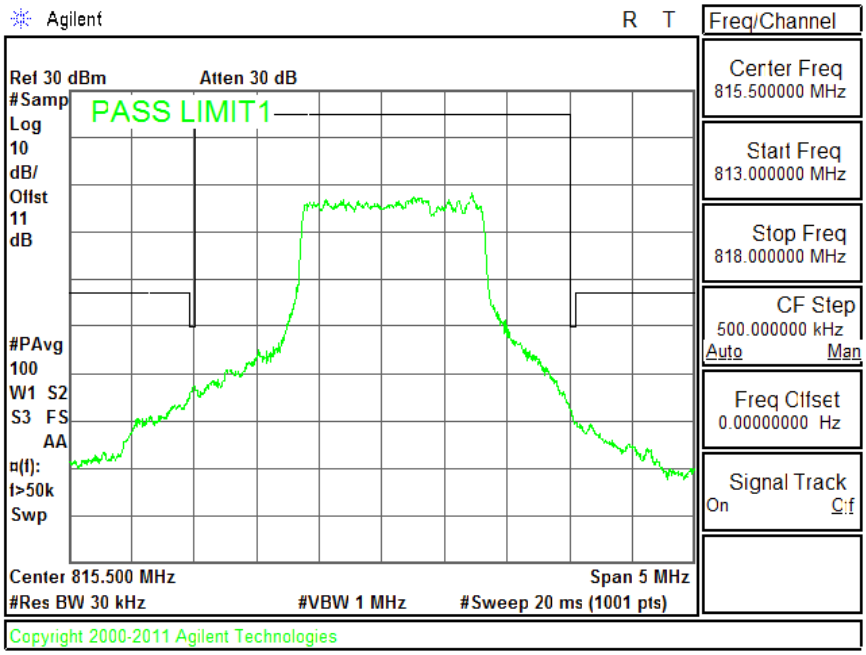
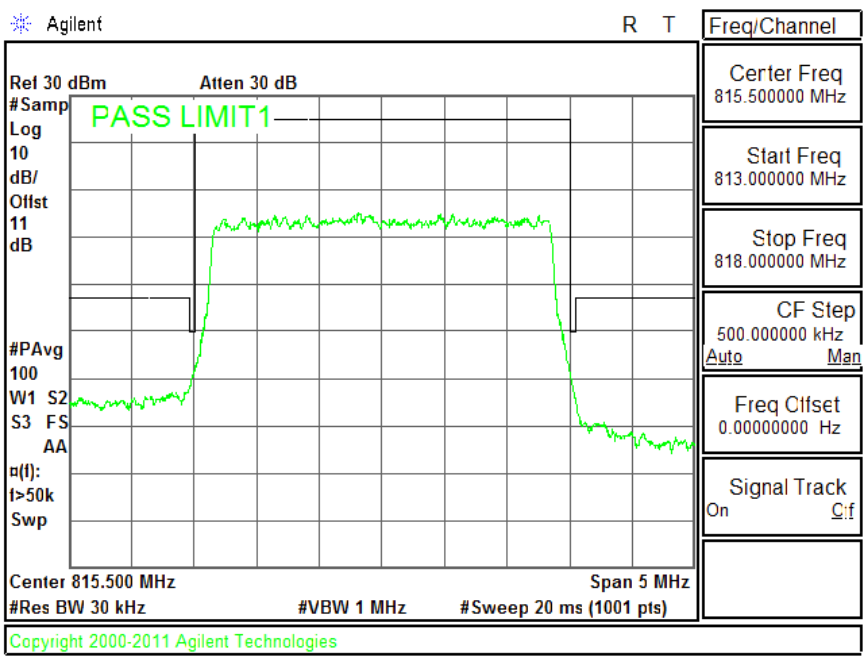
LOW, RB8-4



LOW, RB15-0



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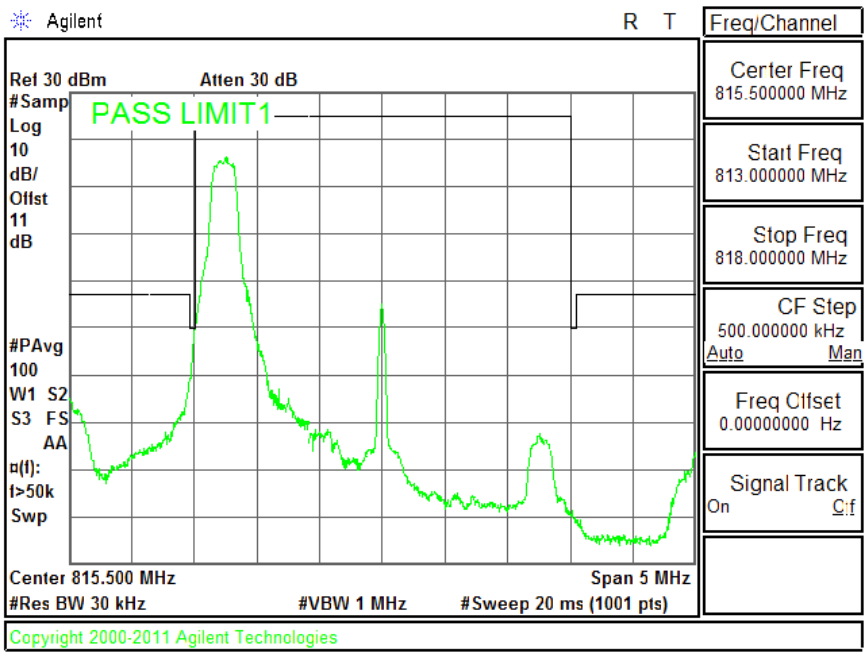
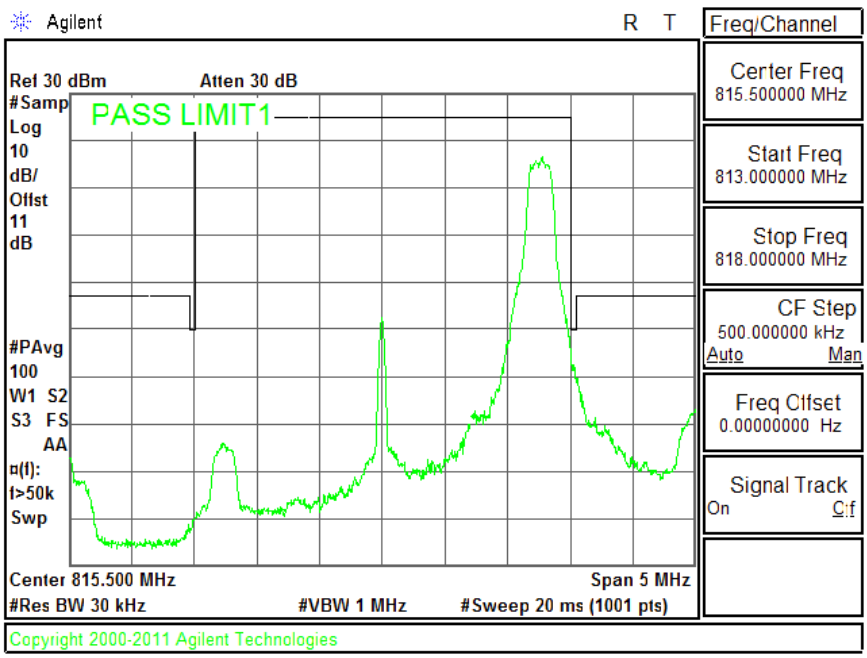
16QAM, (3.0 MHz BAND WIDTH)

LOW, RB1-0



LOW, RB1-14



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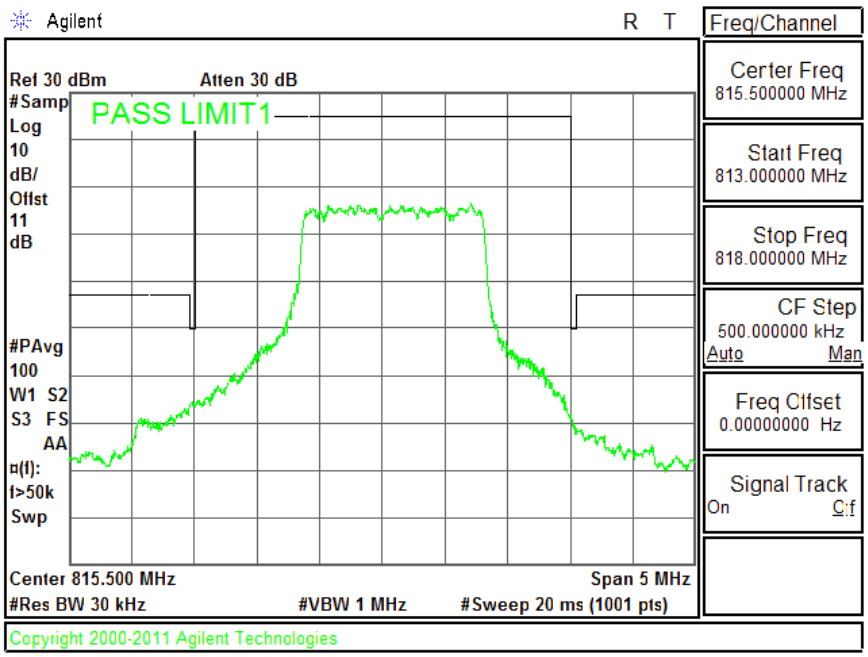
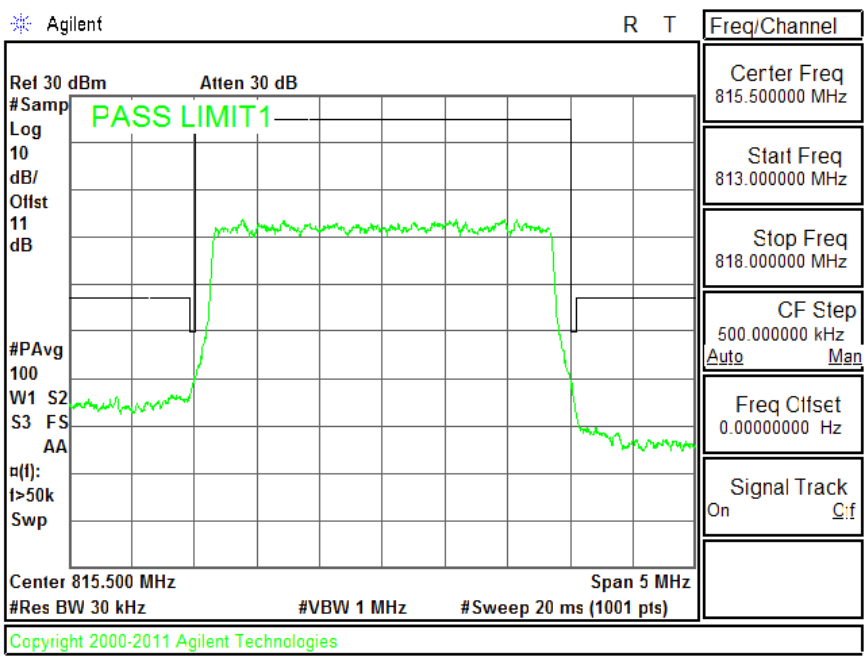
LOW, RB8-4



LOW, RB15-0



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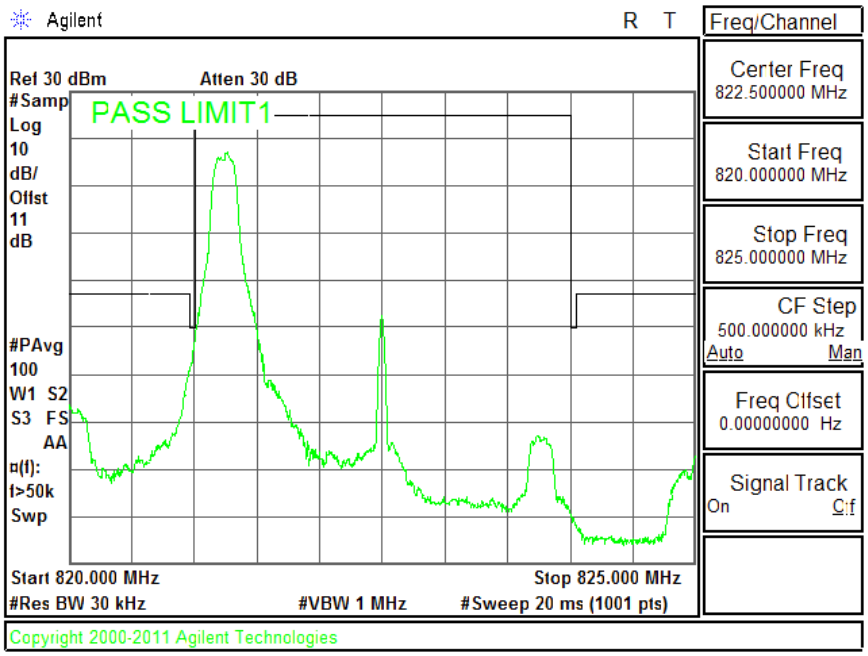
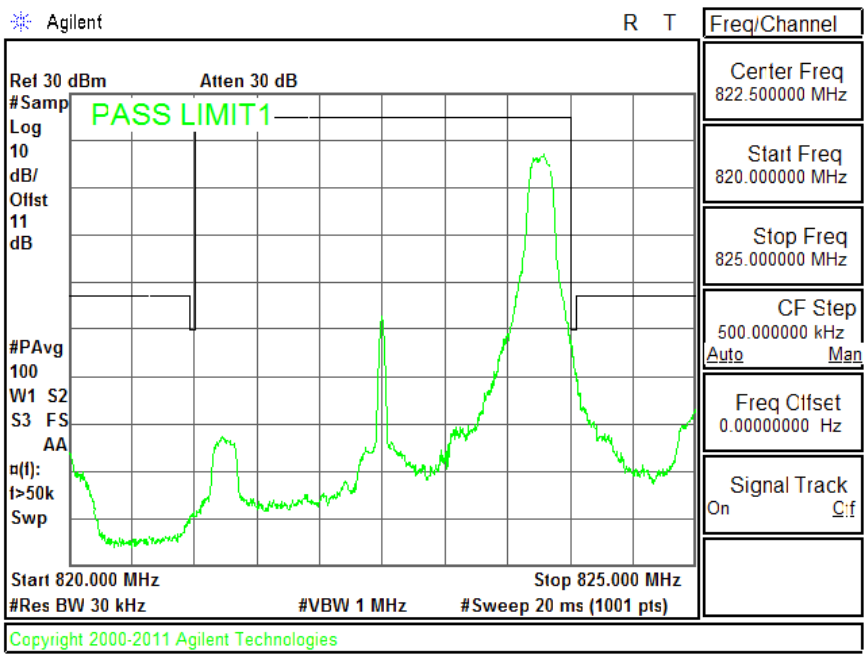
QPSK, (3.0 MHz BAND WIDTH)

HIGH, RB1-0



HIGH, RB1-14



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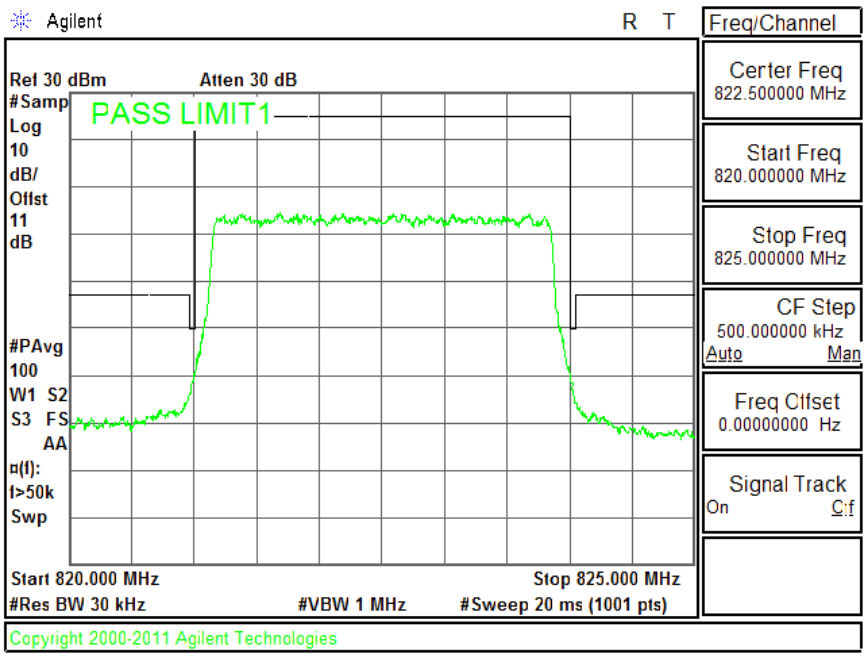
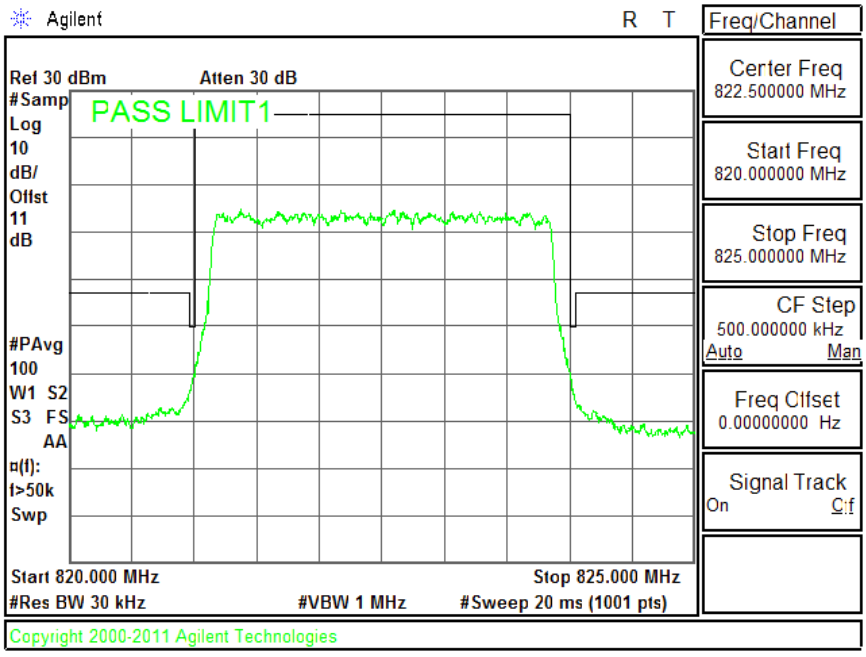
HIGH, RB8-4



HIHG, RB15-0



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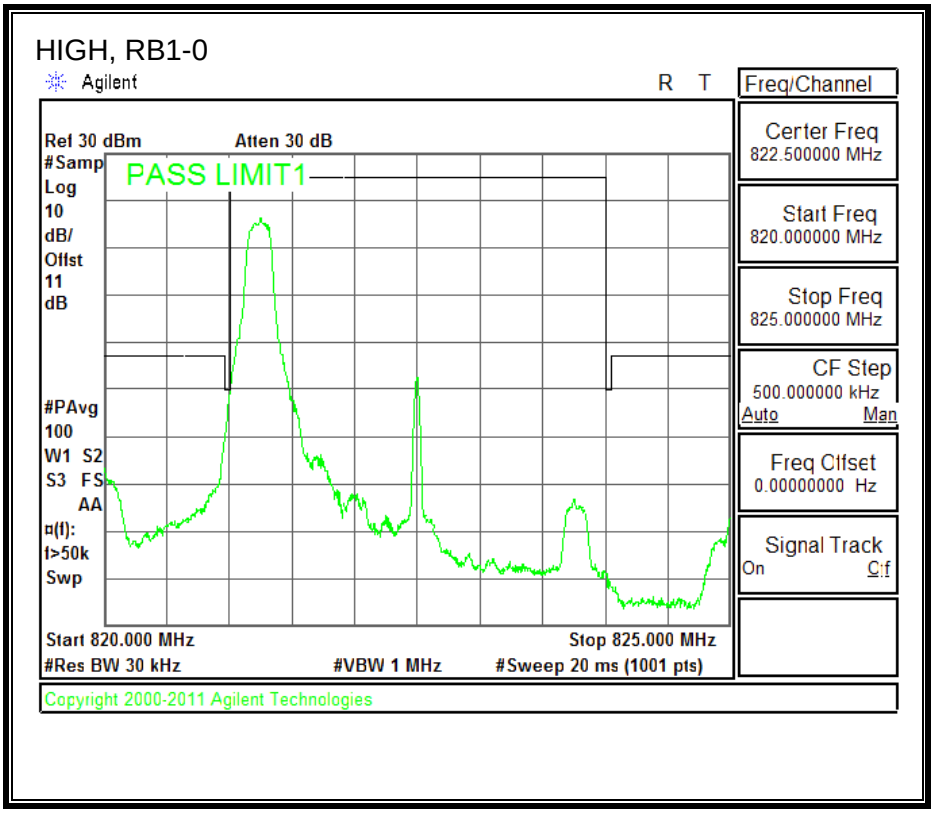
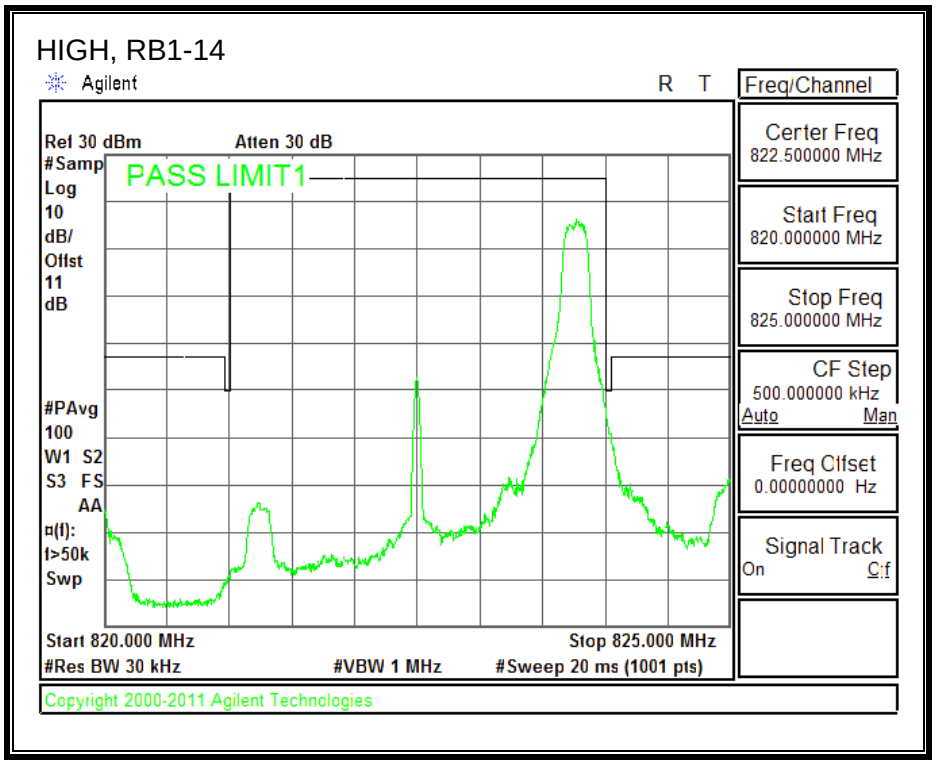
16QAM, (3.0 MHz BAND WIDTH)





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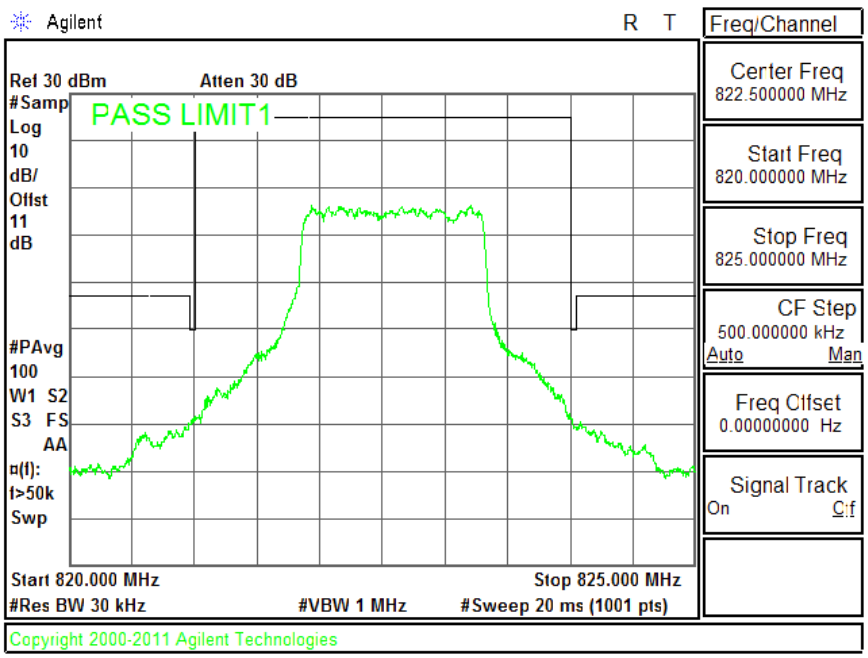
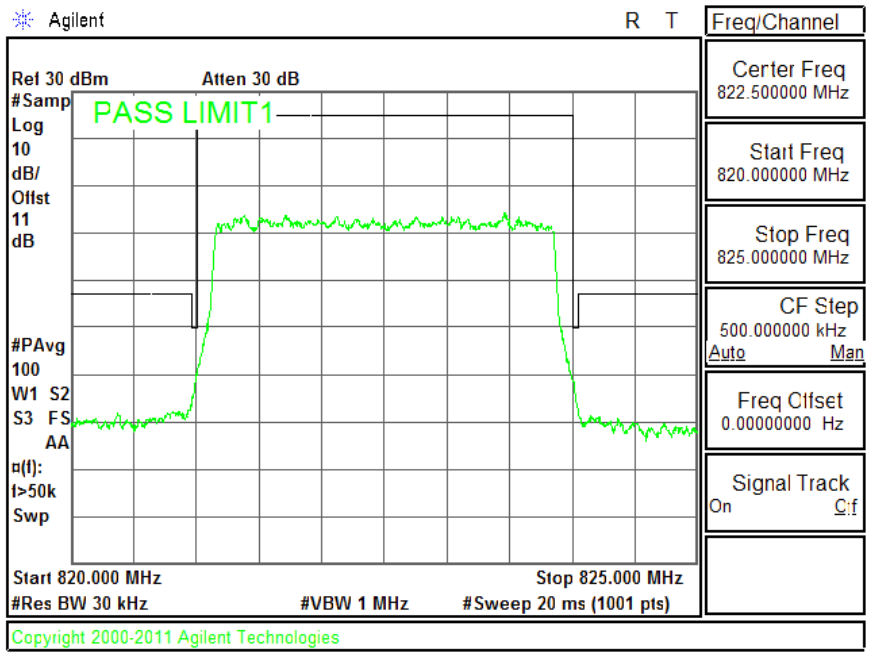
HIGH, RB8-4



HIGH, RB15-0



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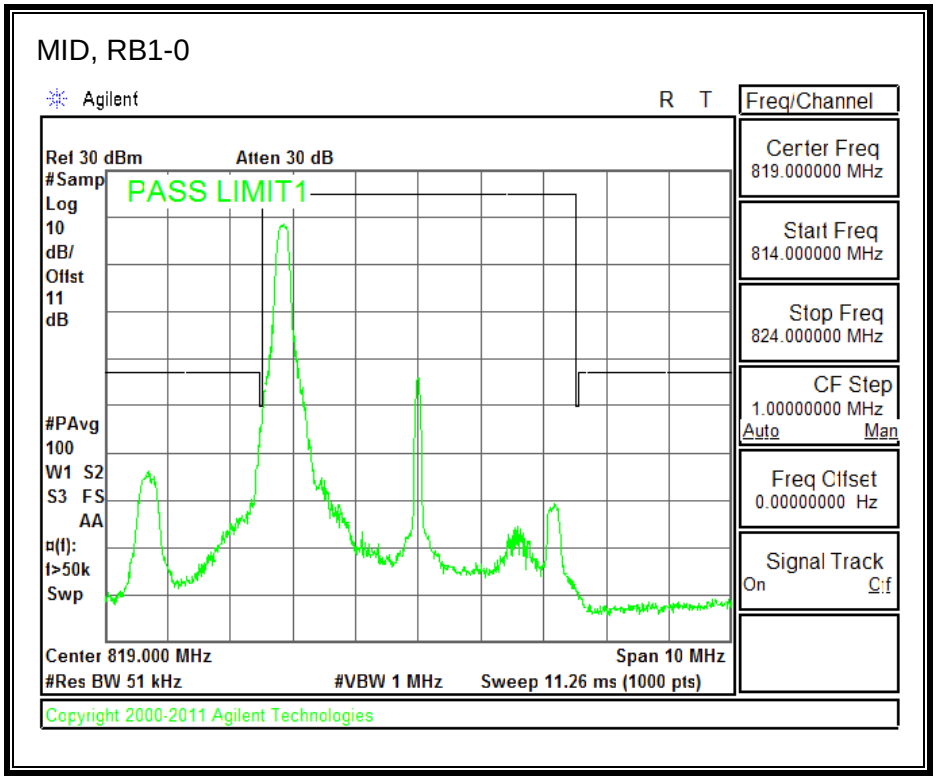
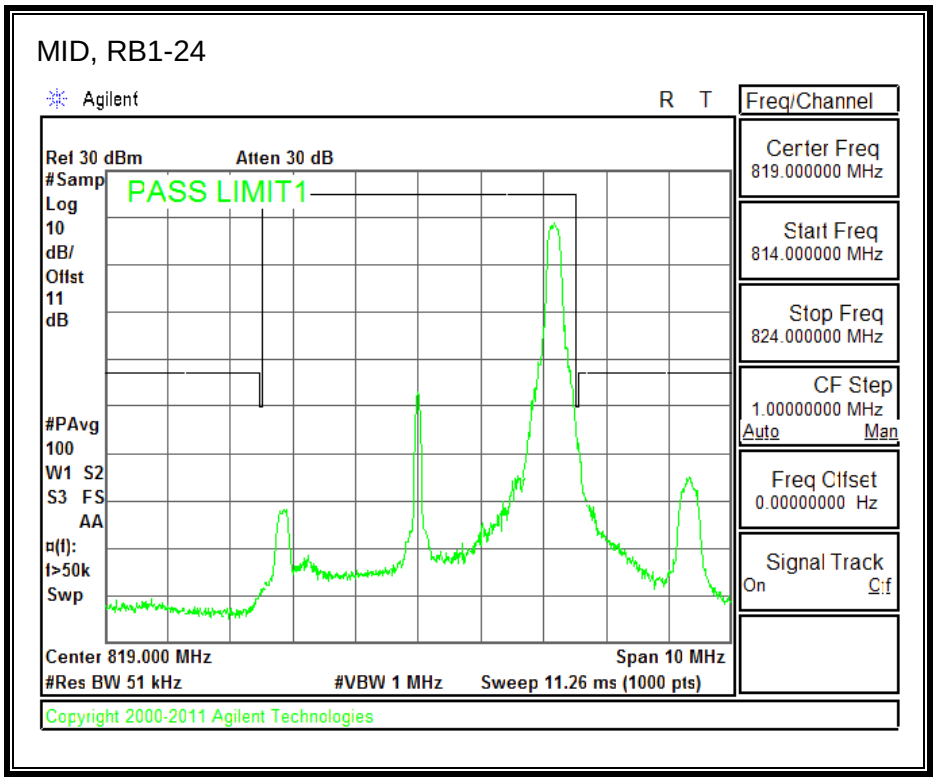
QPSK, (5.0 MHz BAND WIDTH)





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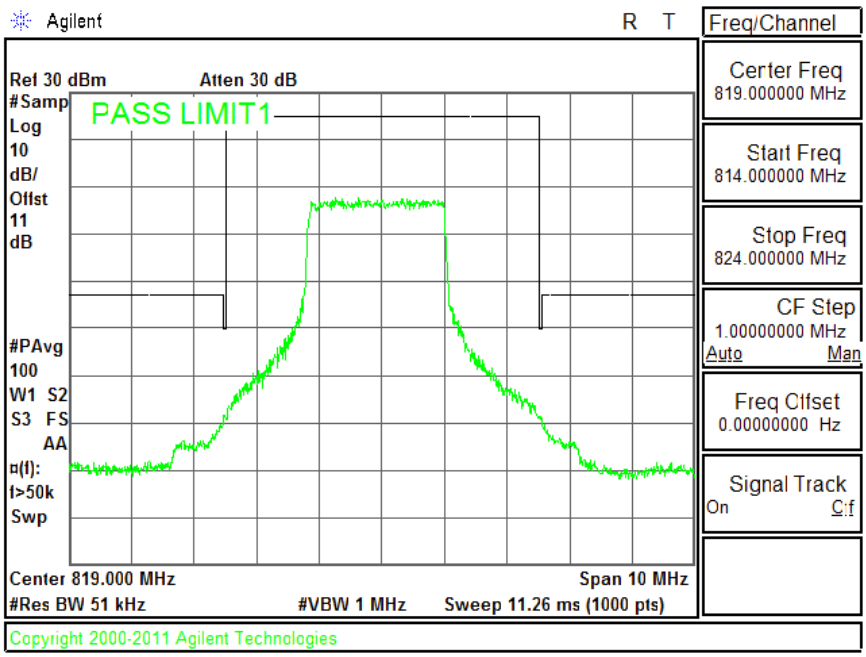
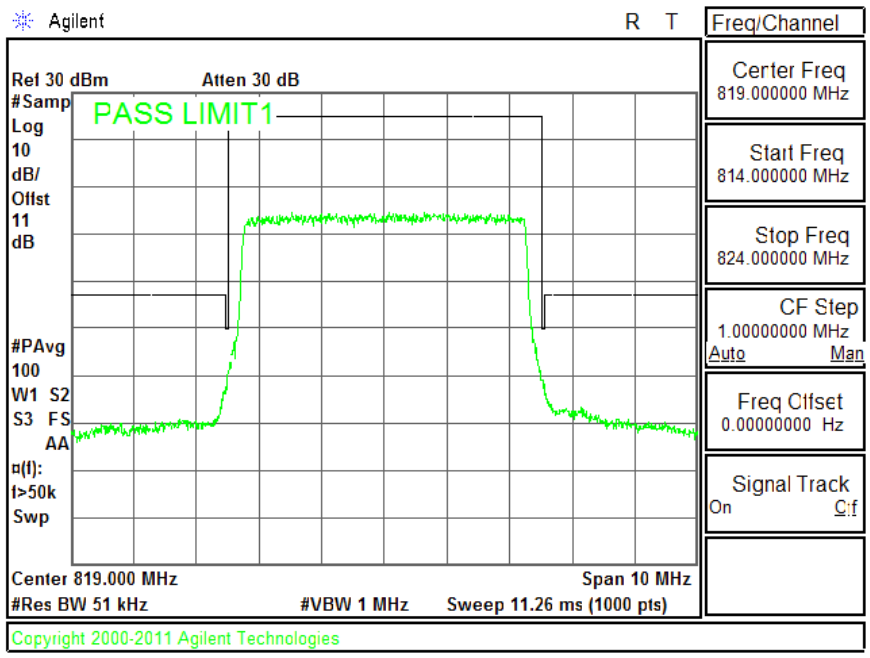
MID, RB12-6



MID, RB25-0



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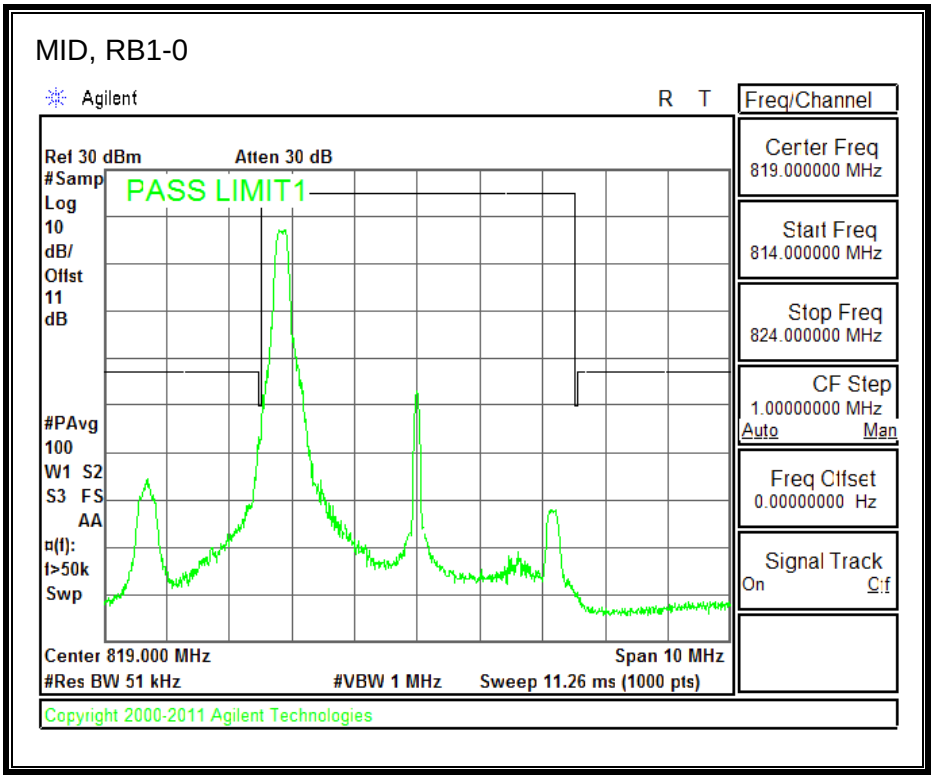
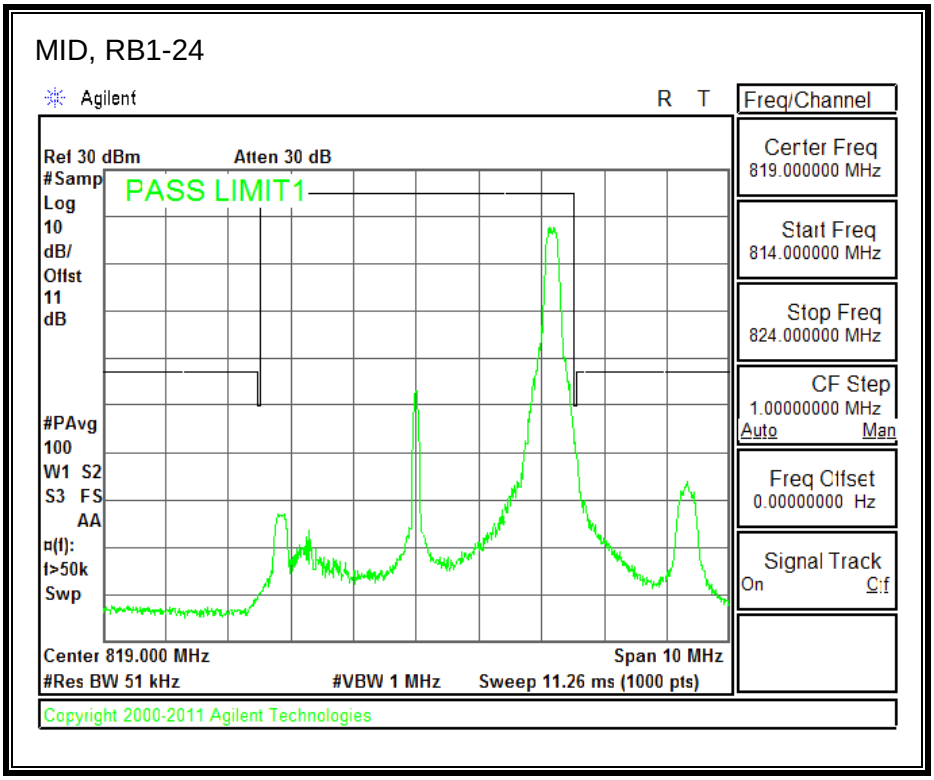
16QAM, (5.0 MHz BAND WIDTH)





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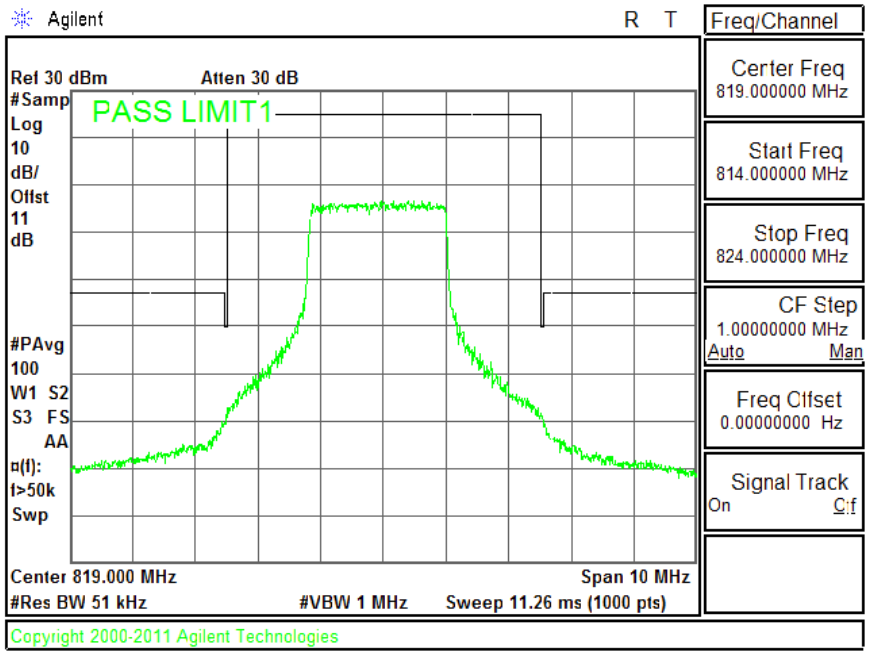
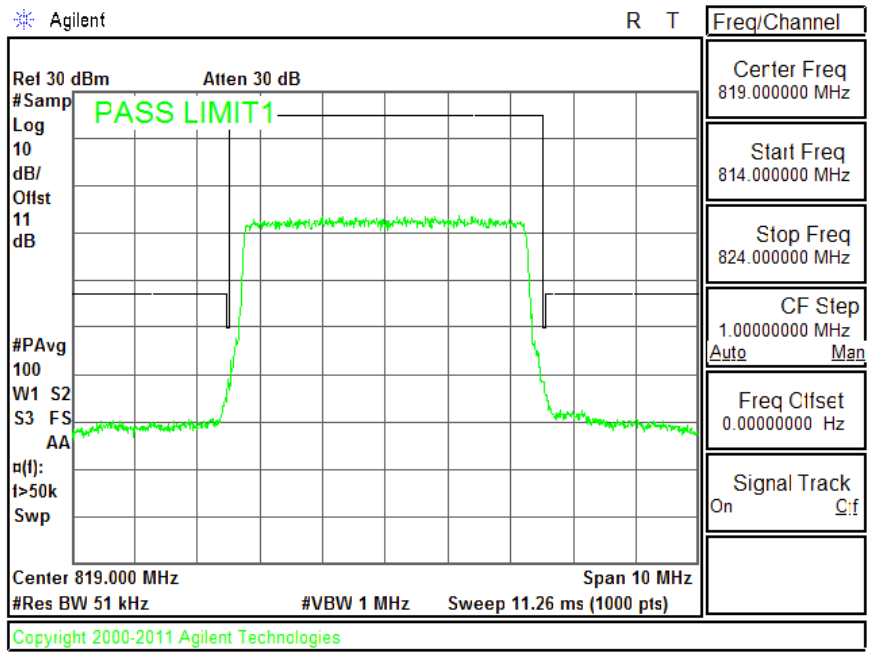
MID, RB12-6



MID, RB25-0



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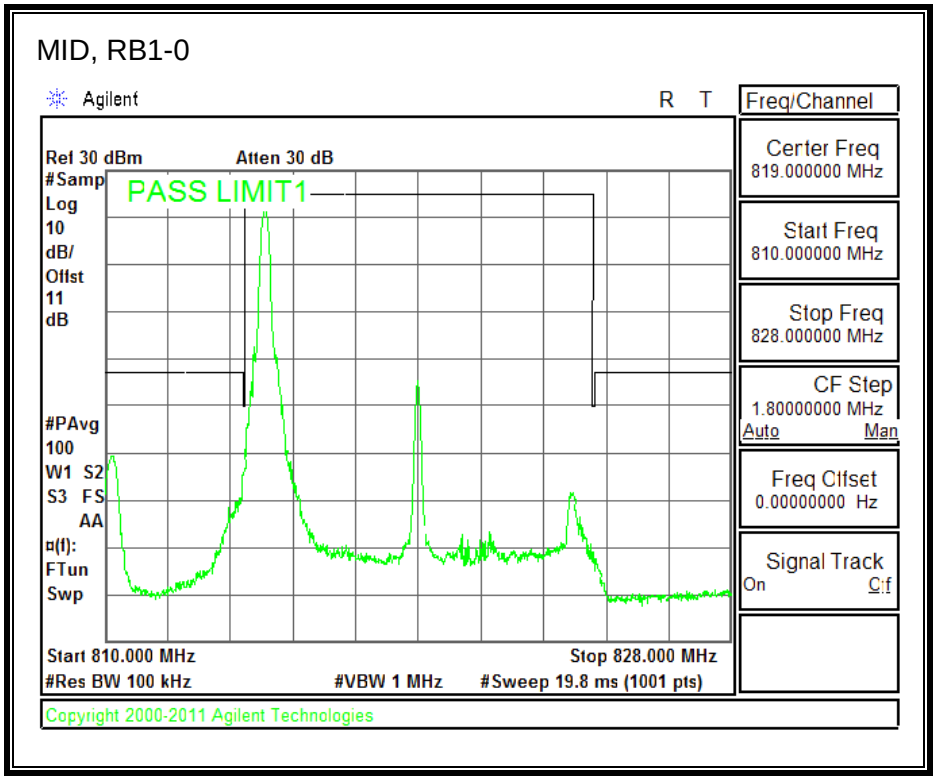
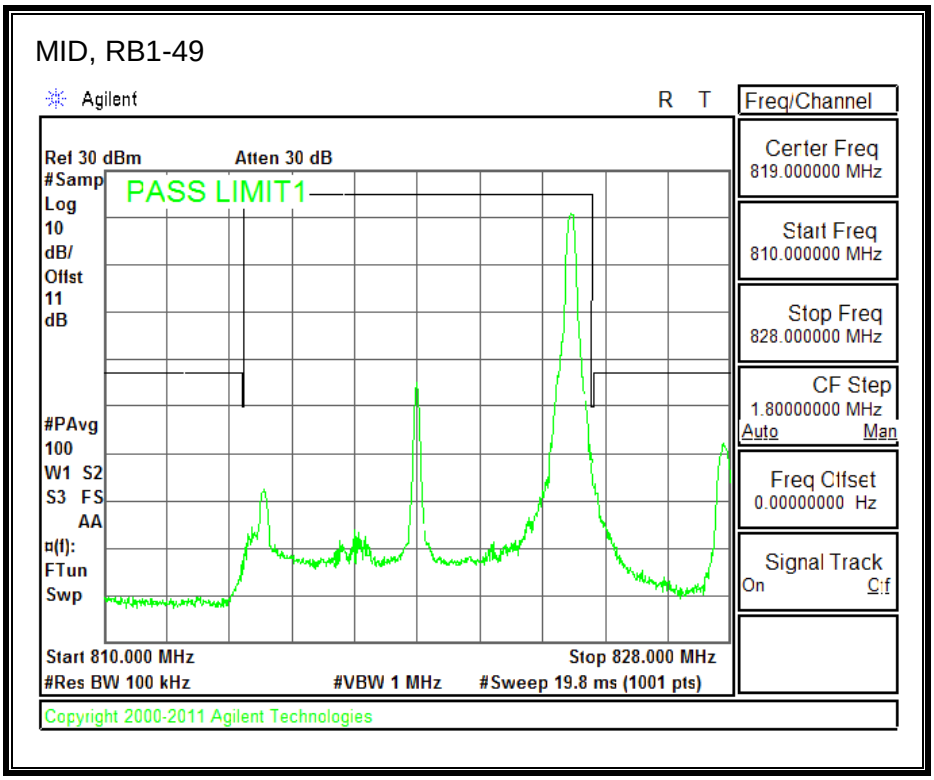
QPSK, (10.0 MHz BAND WIDTH)





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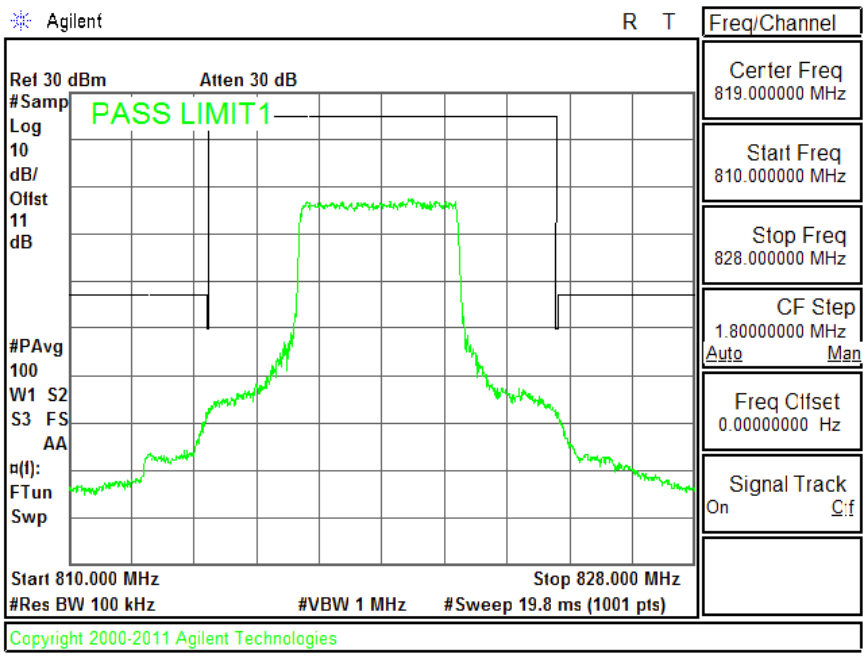
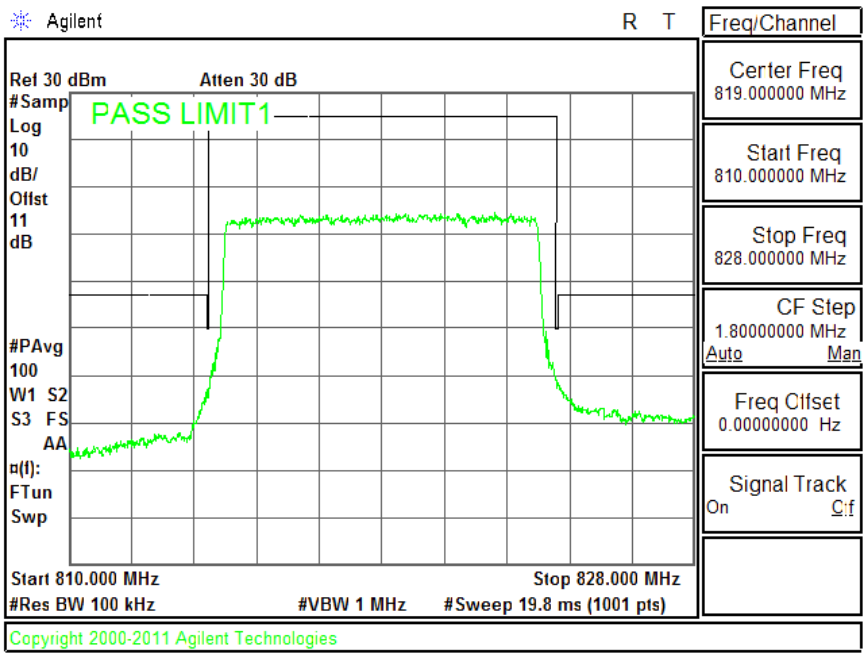
MID, RB25-12



MID, RB50-0



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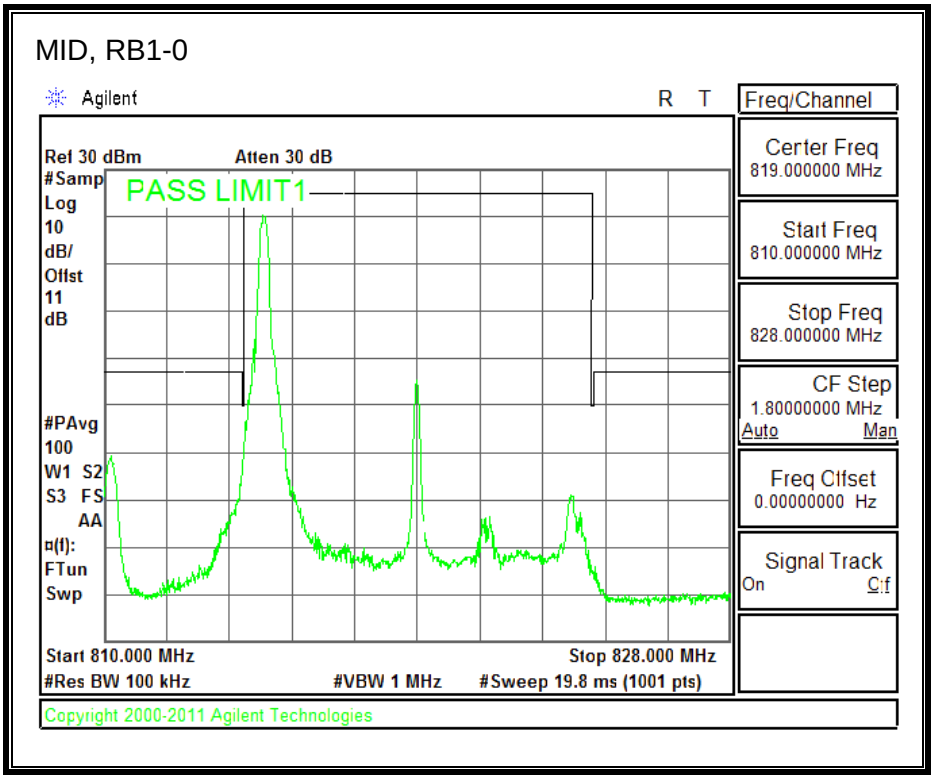
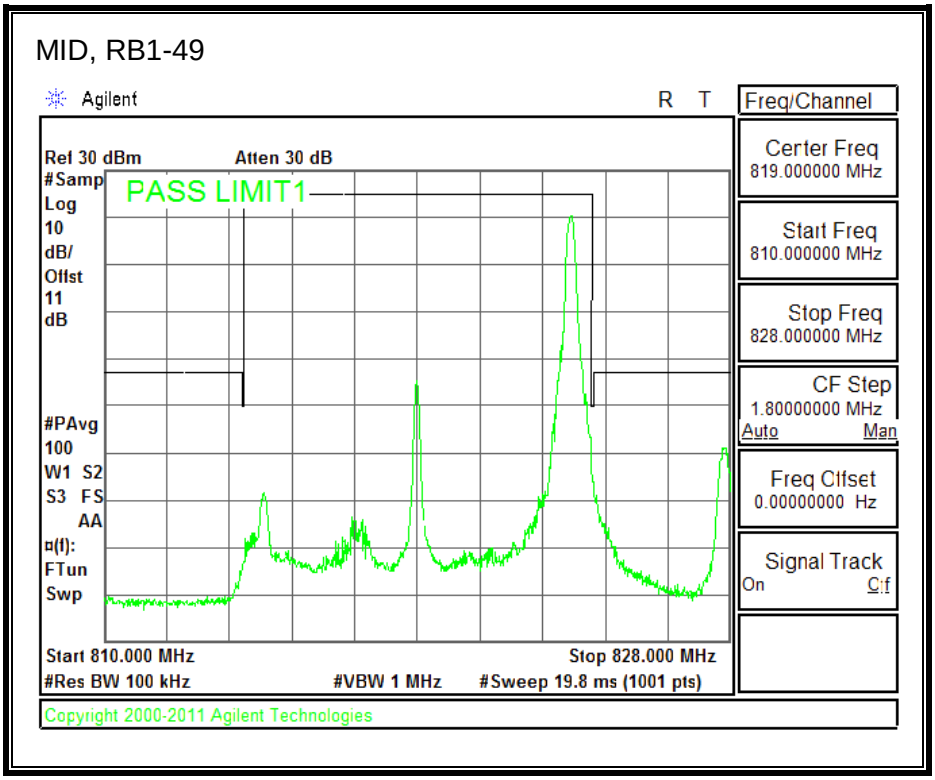
16QAM, (10.0 MHz BAND WIDTH)





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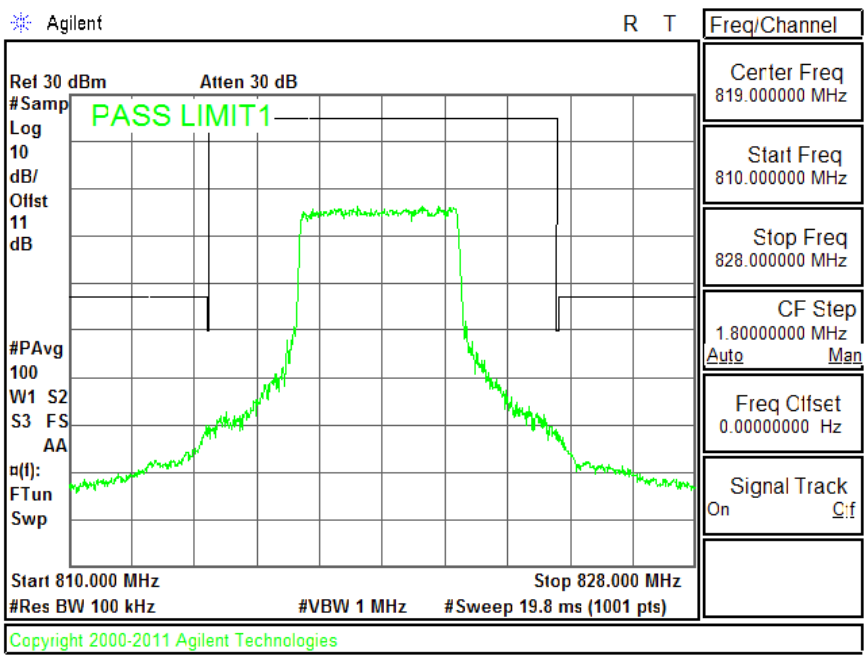
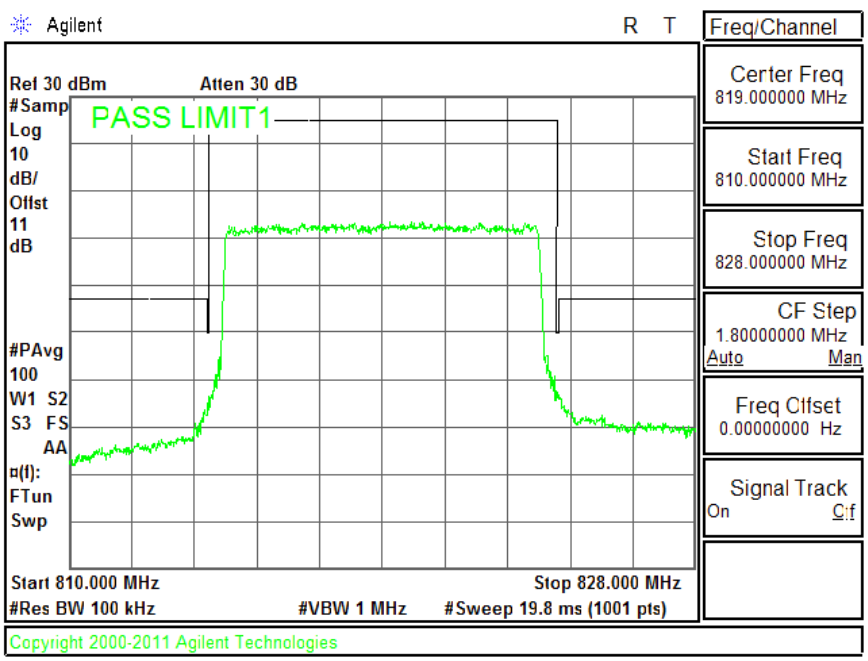
MID, RB25-12



MID, RB50-0



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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.

MODES TESTED

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

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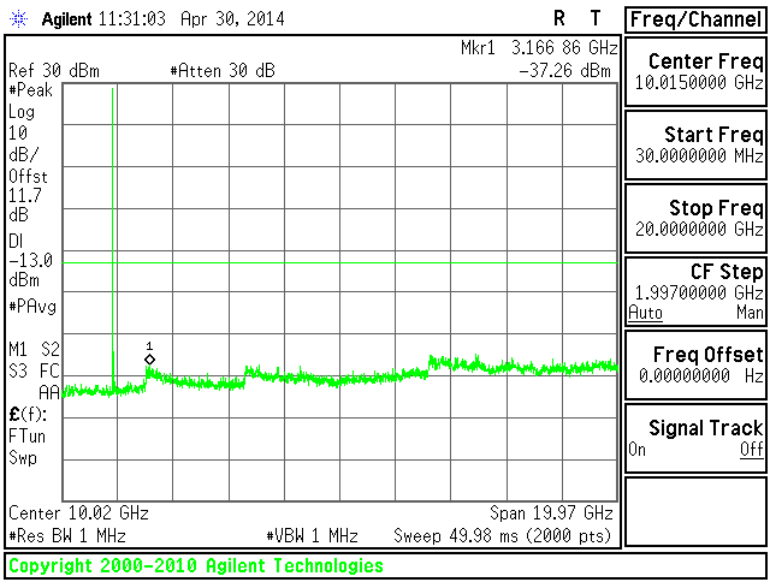
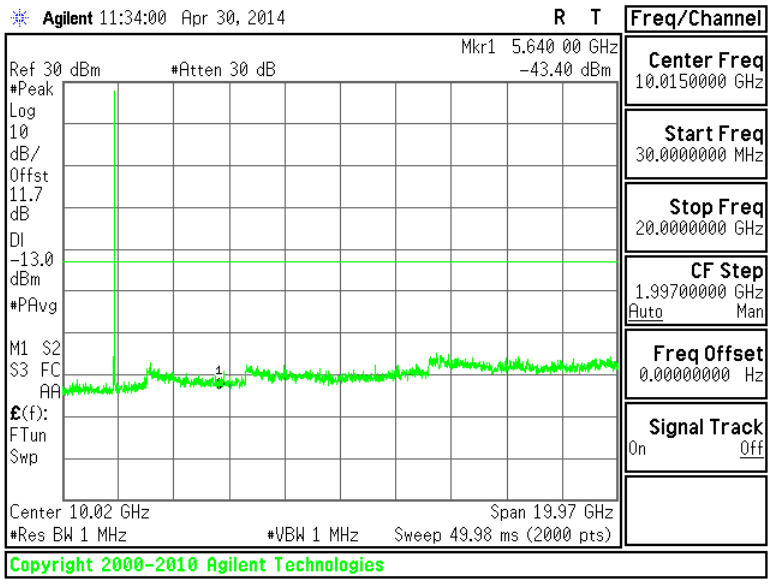
8.3.1. LTE BAND 2

QPSK, (1.4 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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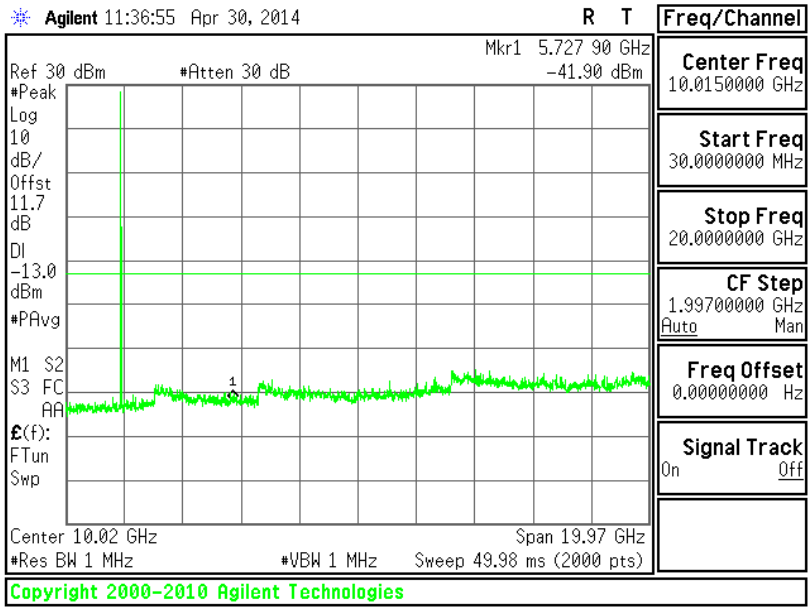
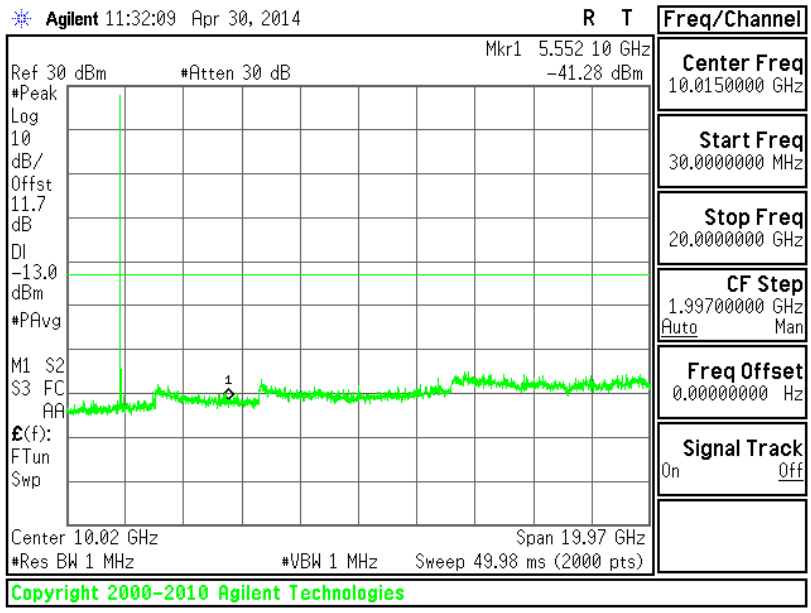
HIGH, RB1-0, 30 TO 20000 MHz



16QAM, (1.4 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 20000 MHz



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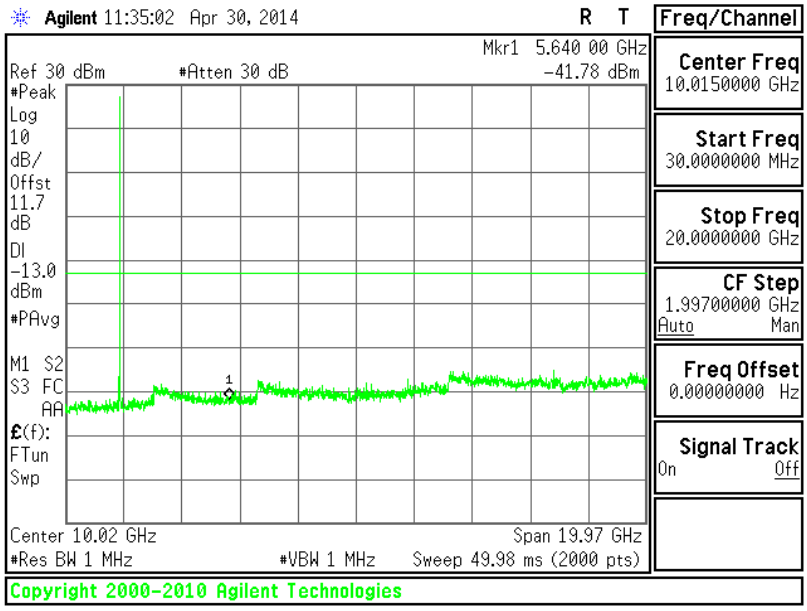
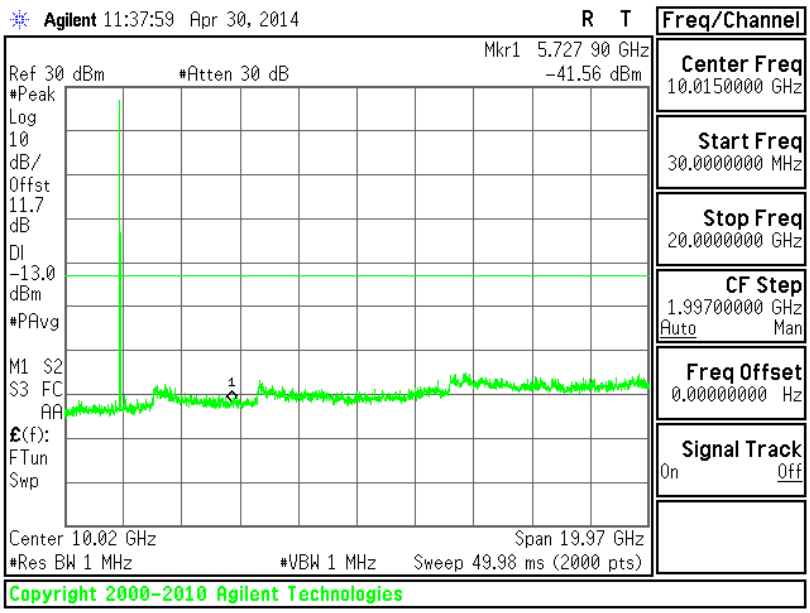
MID, RB1-0, 30 TO 20000 MHz



HIGH, RB1-0, 30 TO 20000 MHz



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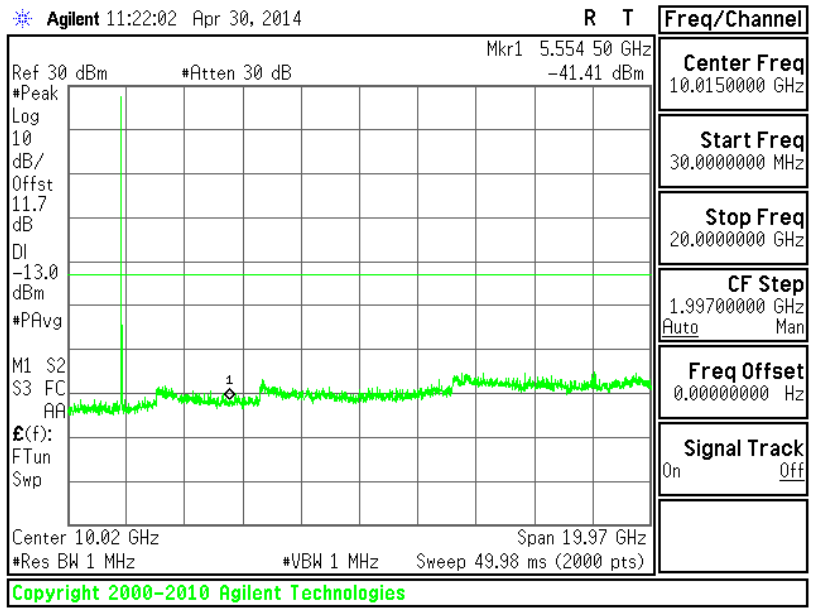
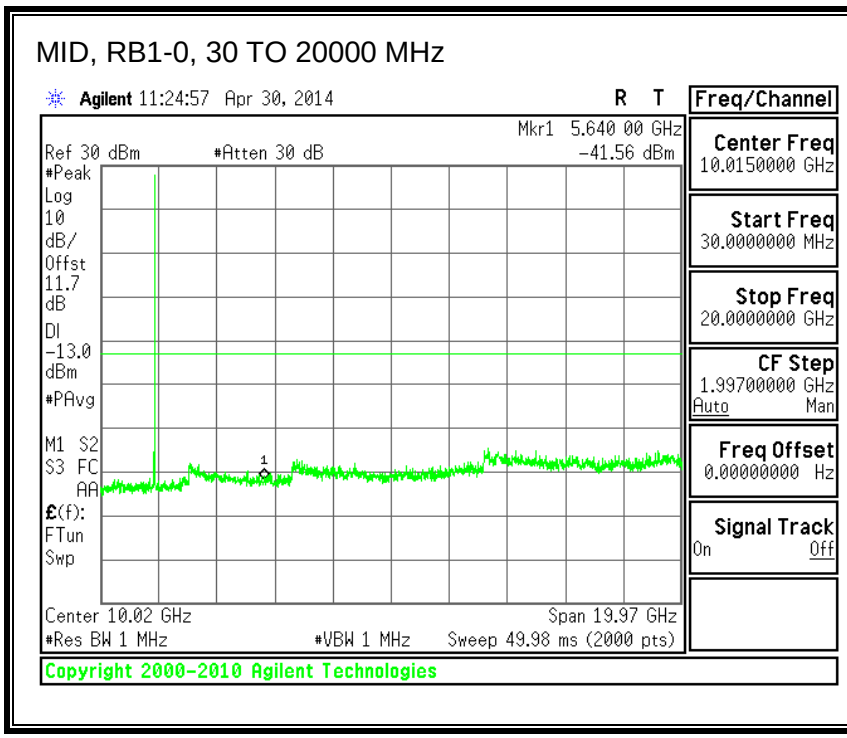
QPSK, (3.0 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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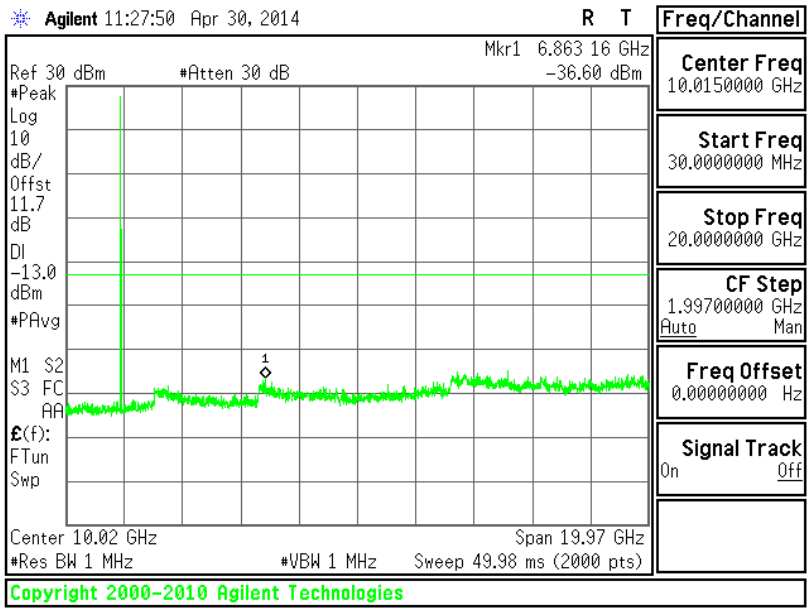
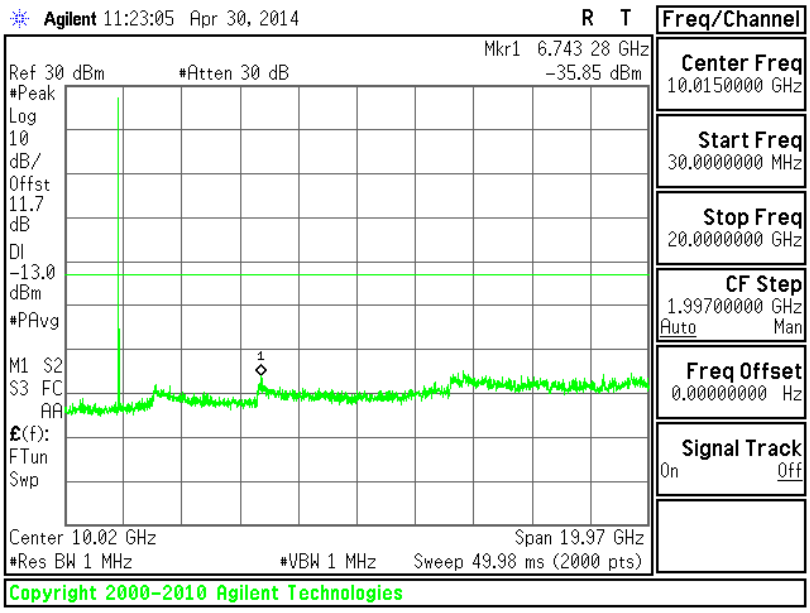
HIGH, RB1-0, 30 TO 20000 MHz



16QAM, (3.0 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 20000 MHz



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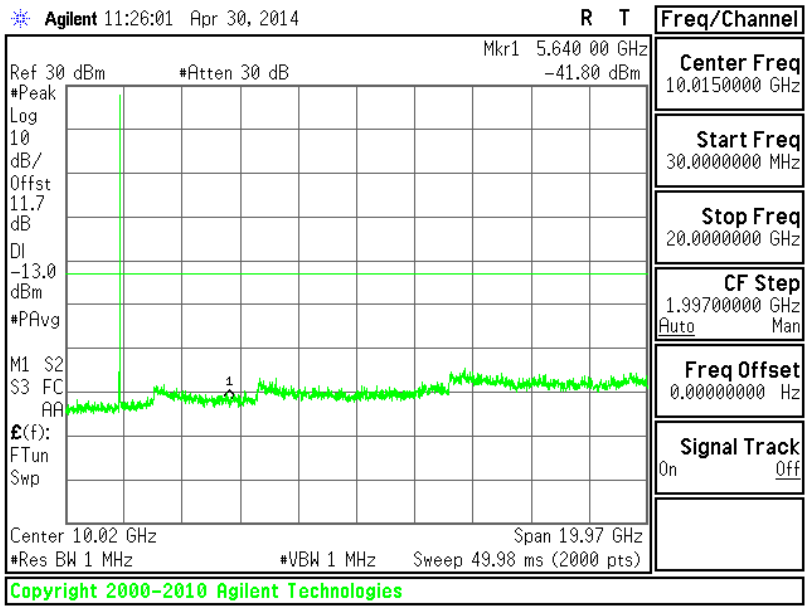
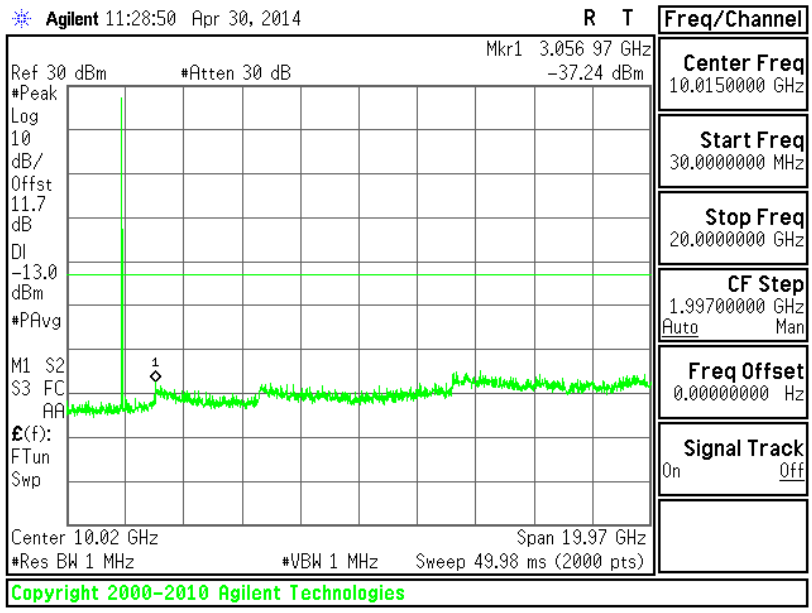
MID, RB1-0, 30 TO 20000 MHz



HIGH, RB1-0, 30 TO 20000 MHz



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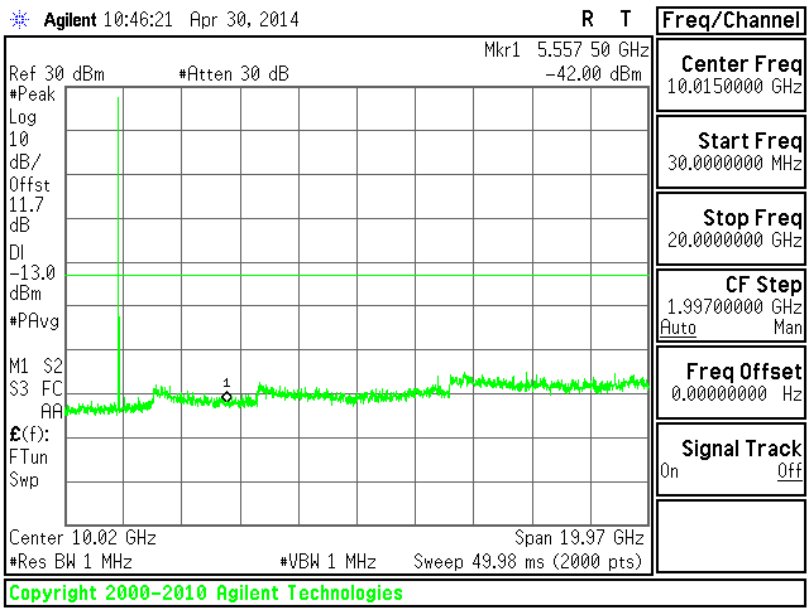
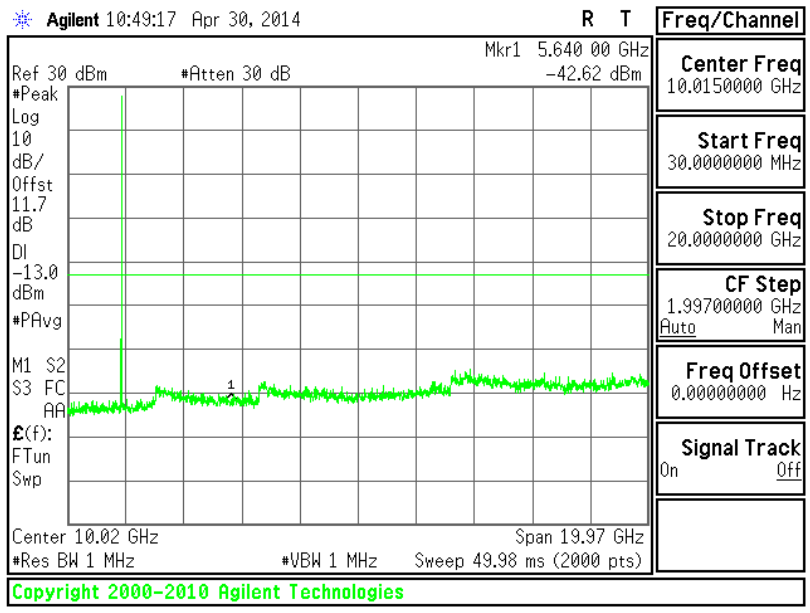
QPSK, (5.0 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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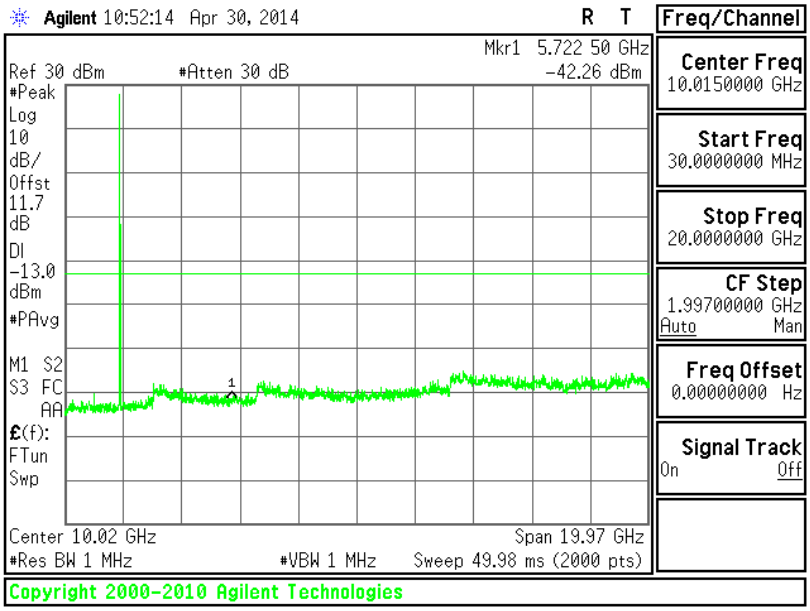
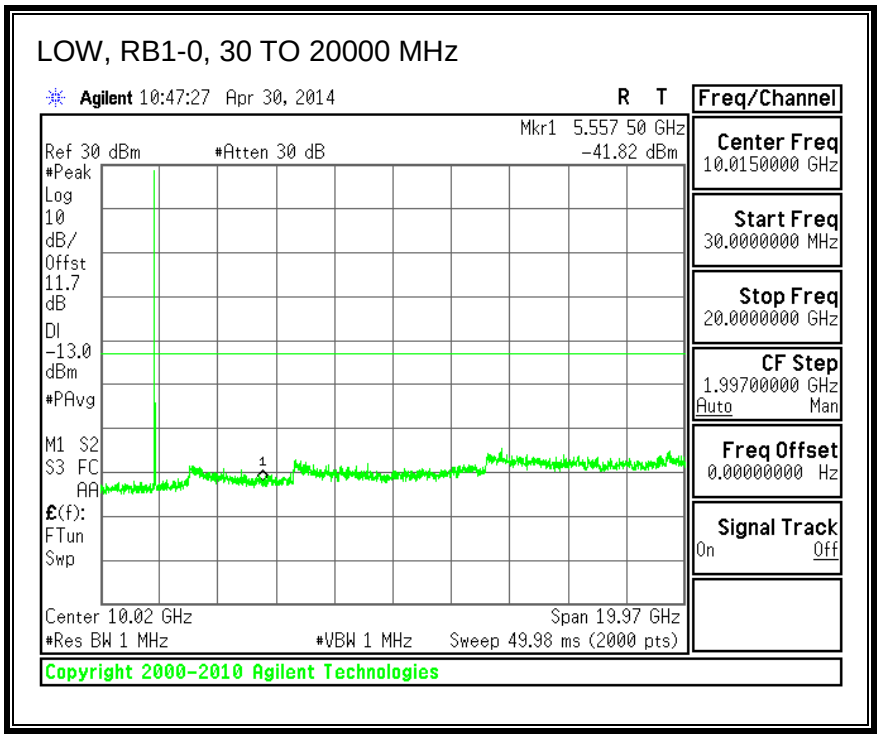
HIGH, RB1-0, 30 TO 20000 MHz



16QAM, (5.0 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 20000 MHz



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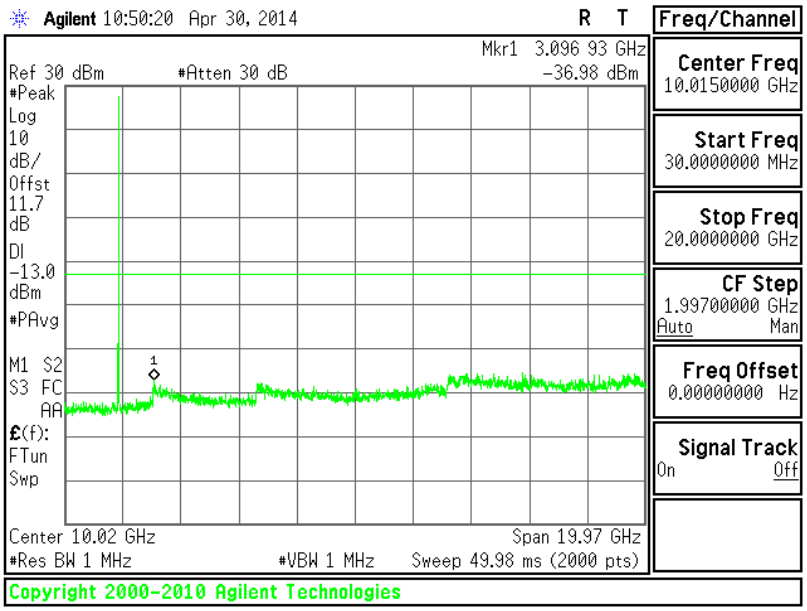
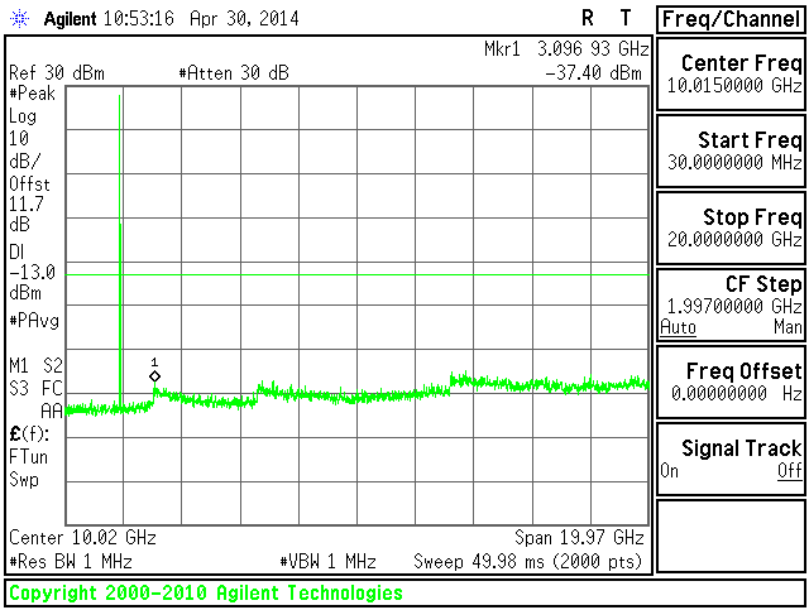
MID, RB1-0, 30 TO 20000 MHz



HIGH, RB1-0, 30 TO 20000 MHz



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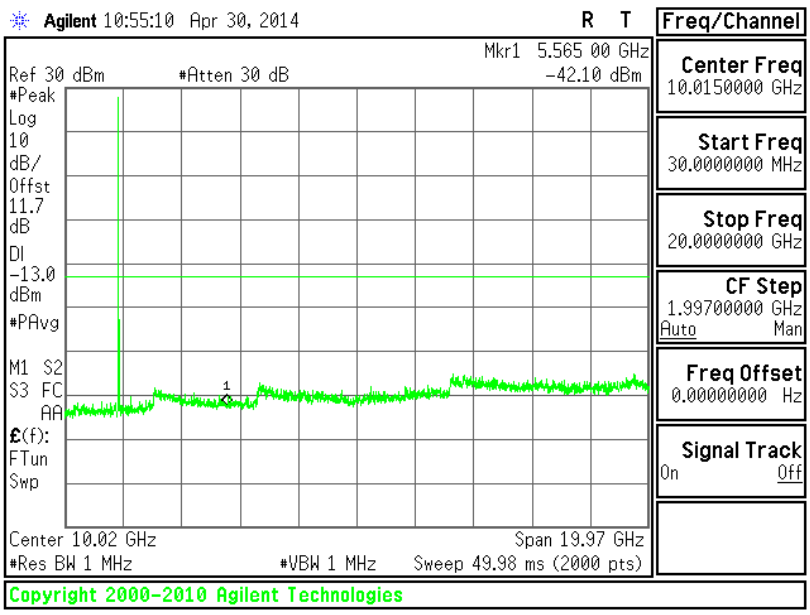
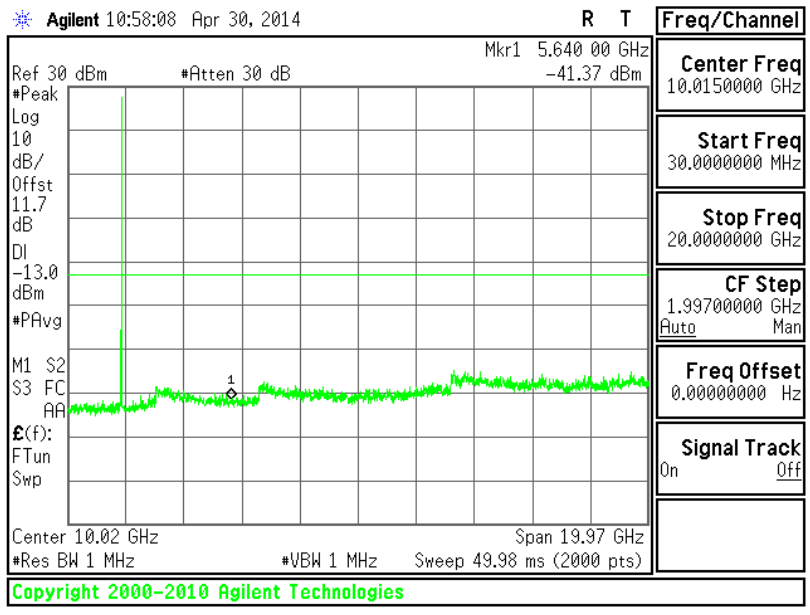
QPSK, (10.0 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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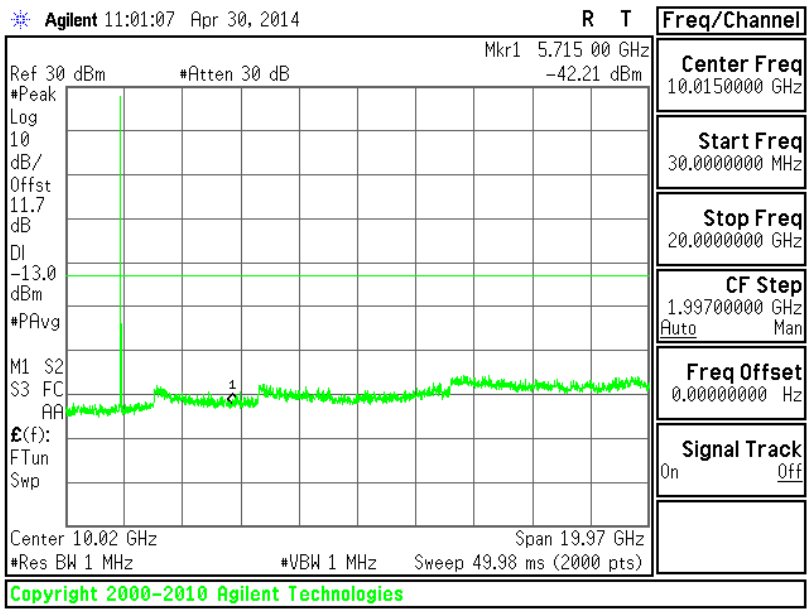
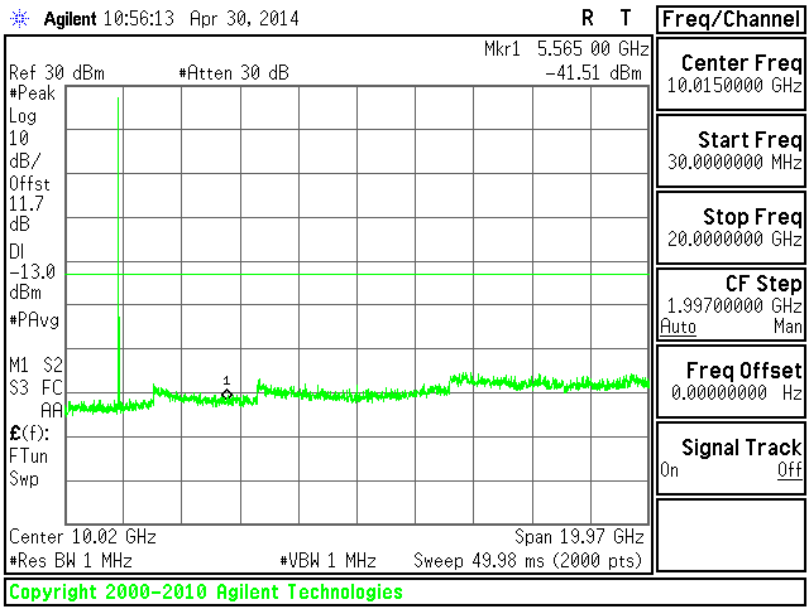
HIGH, RB1-0, 30 TO 20000 MHz



16QAM, (10.0 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 20000 MHz



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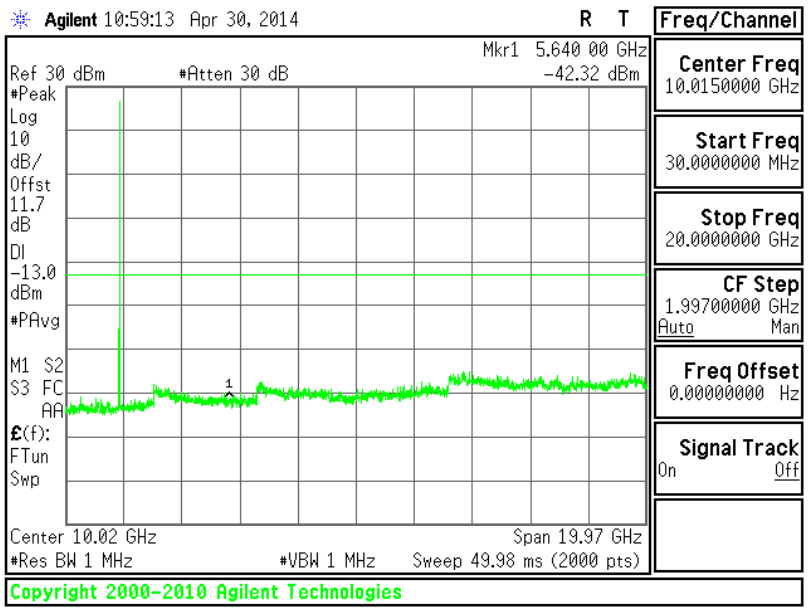
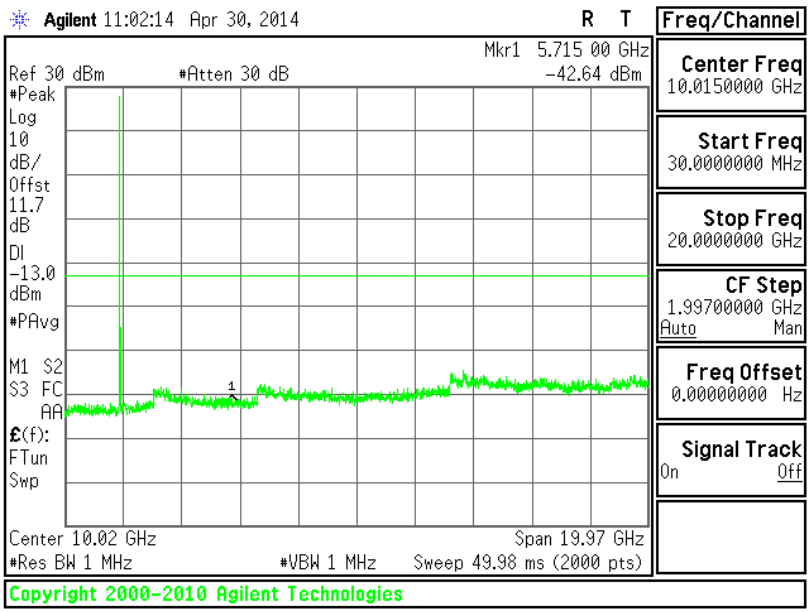
MID, RB1-0, 30 TO 20000 MHz



HIGH, RB1-0, 30 TO 20000 MHz



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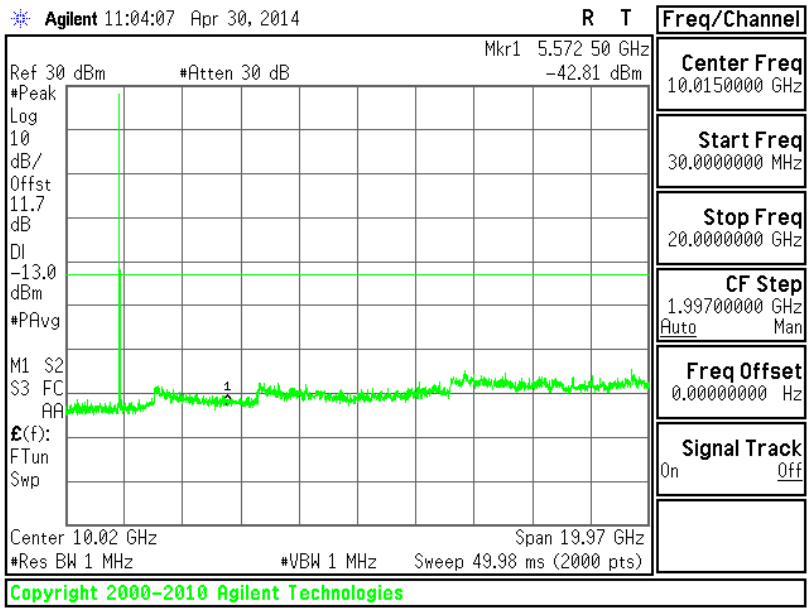
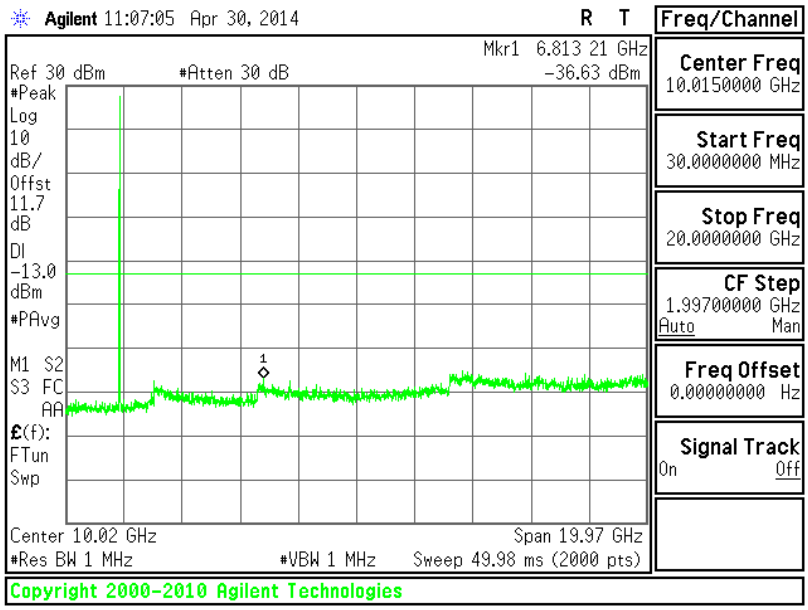
QPSK, (15.0 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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