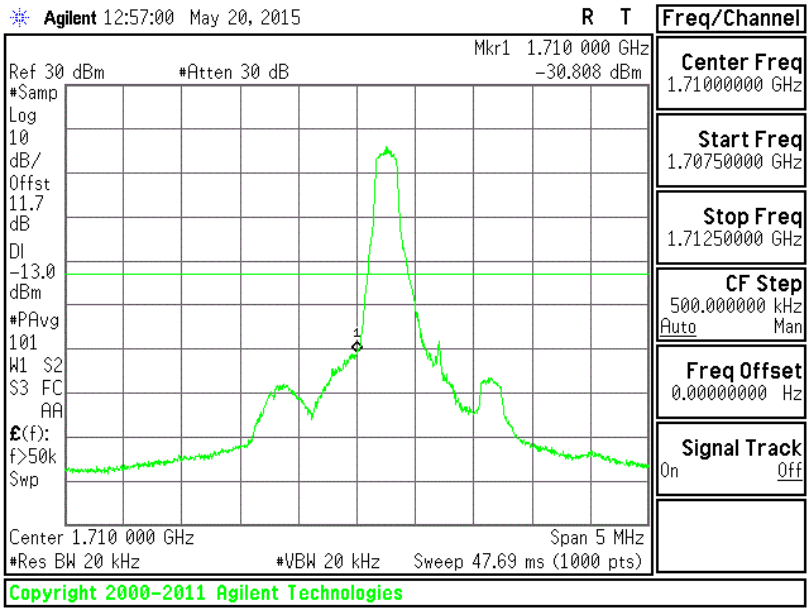
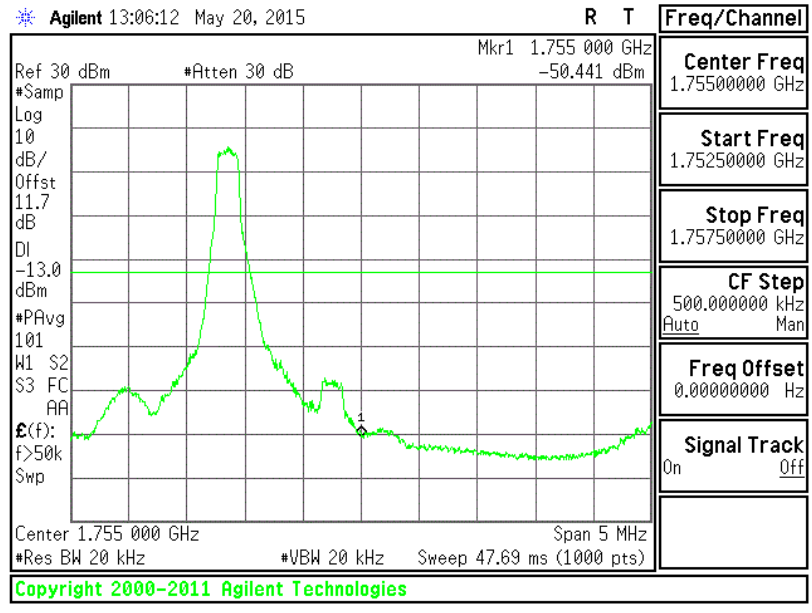
16QAM, (1.4 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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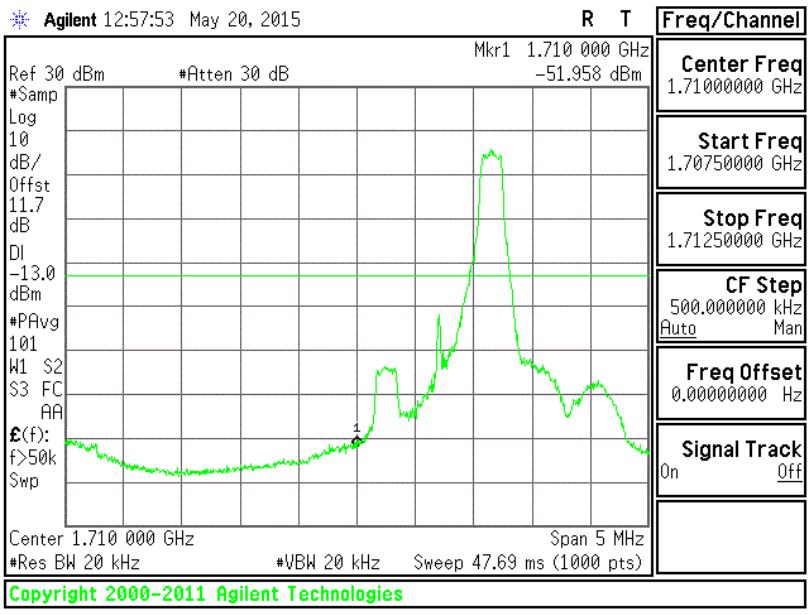
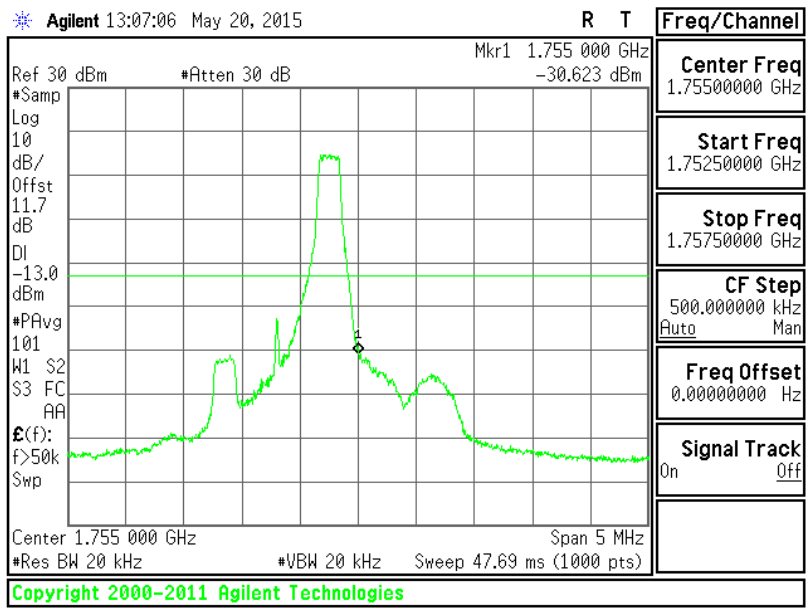
LOW CH, RB1-5



HIGH CH, RB1-5



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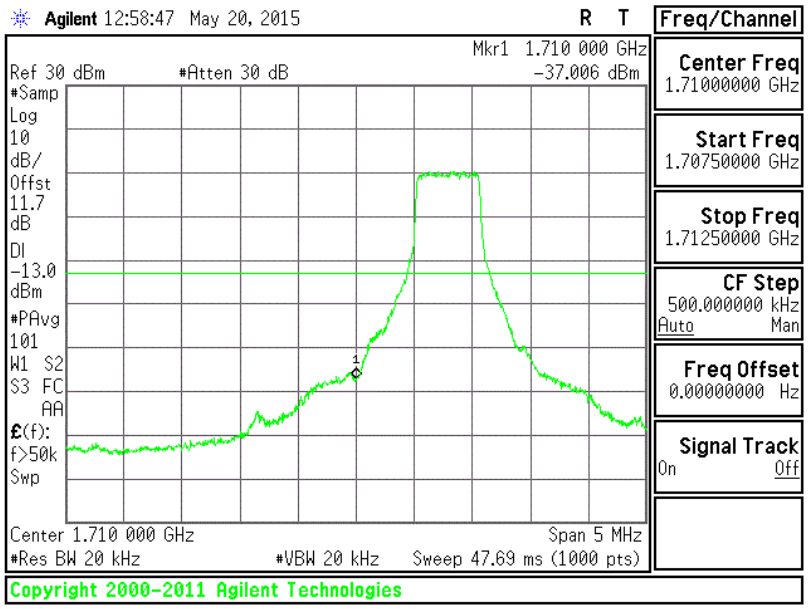
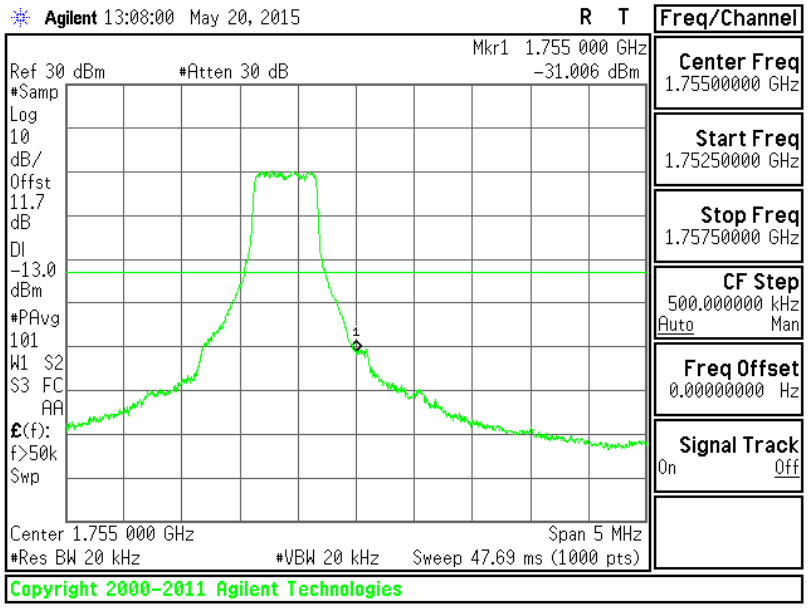
LOW CH, RB3-2



HIGH CH, RB3-2



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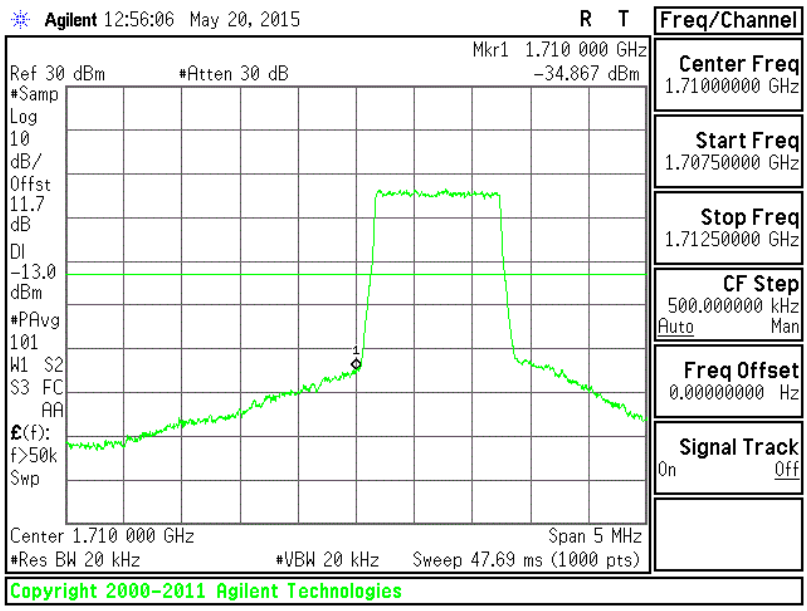
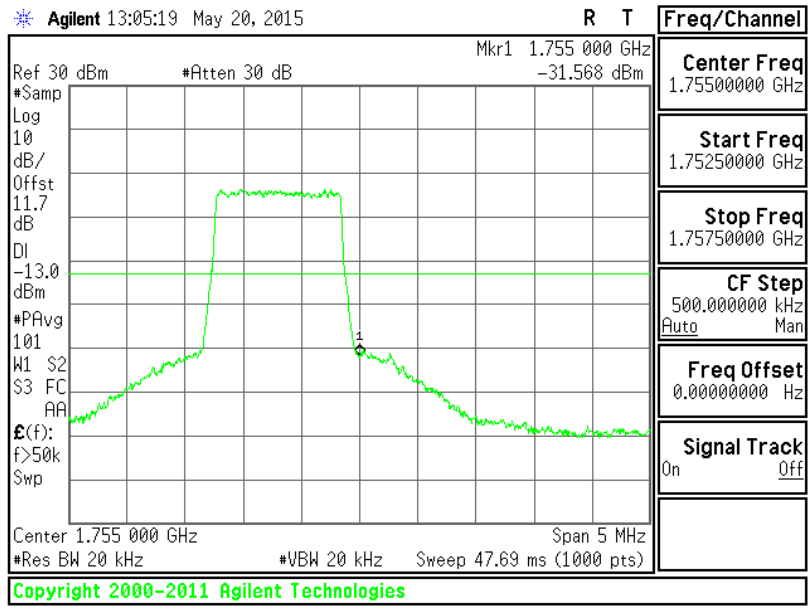
LOW CH, RB6-0



HIGH CH, RB6-0



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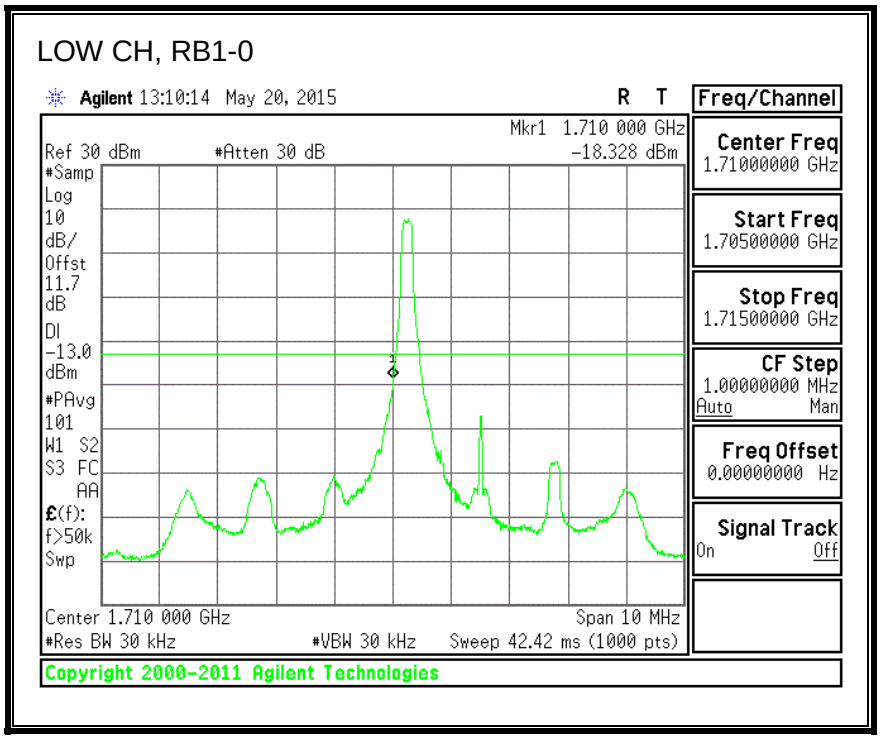
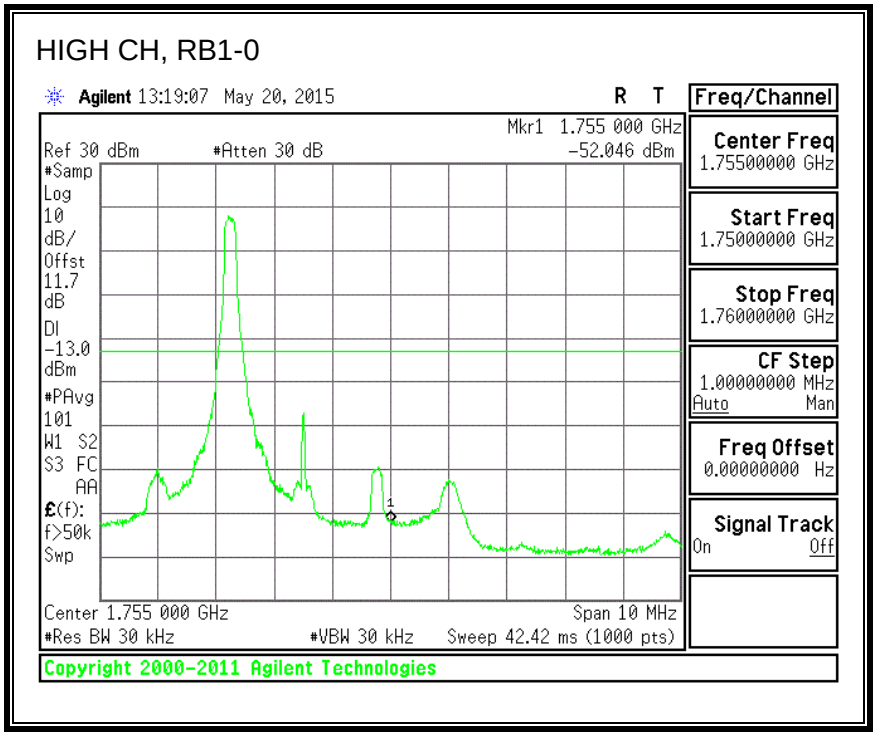
QPSK, (3.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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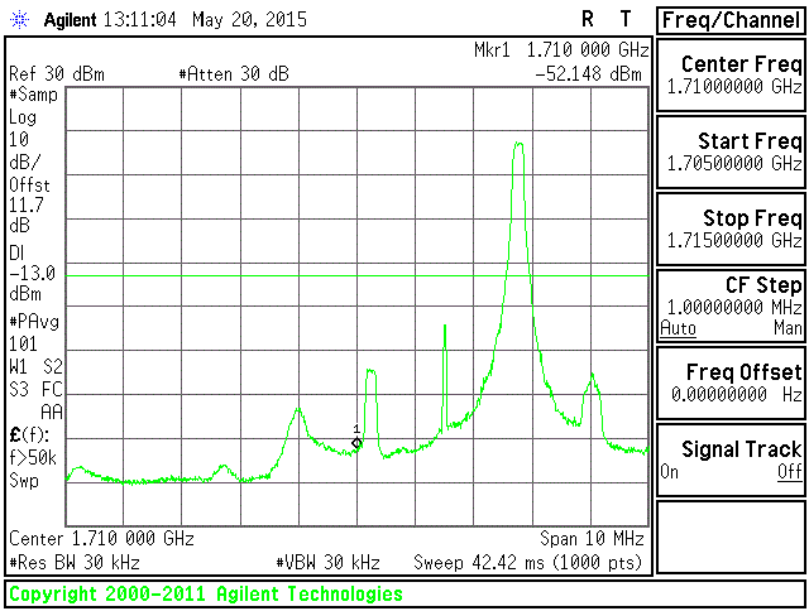
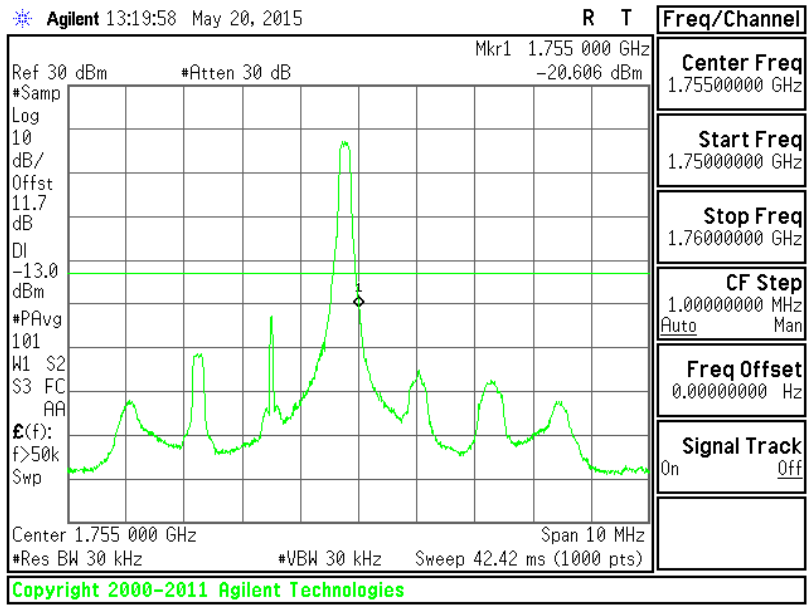
LOW CH, RB1-14



HIGH CH, RB1-14



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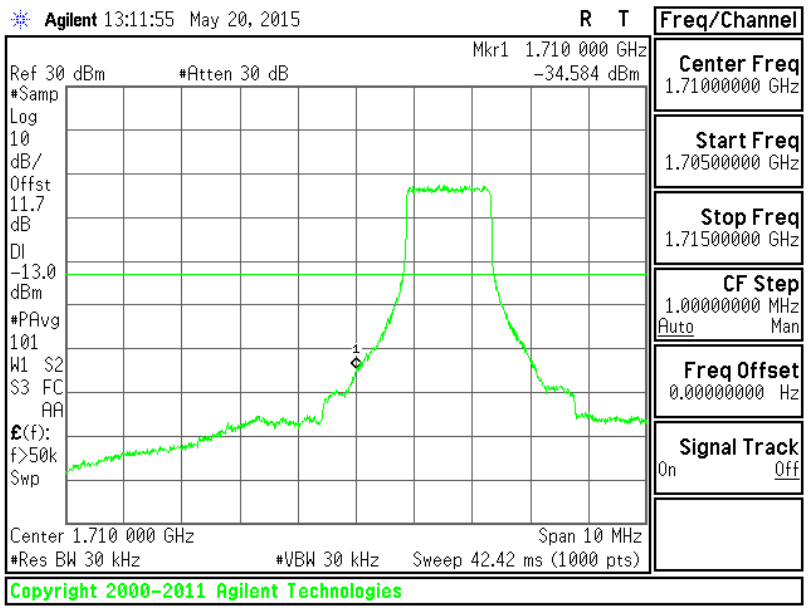
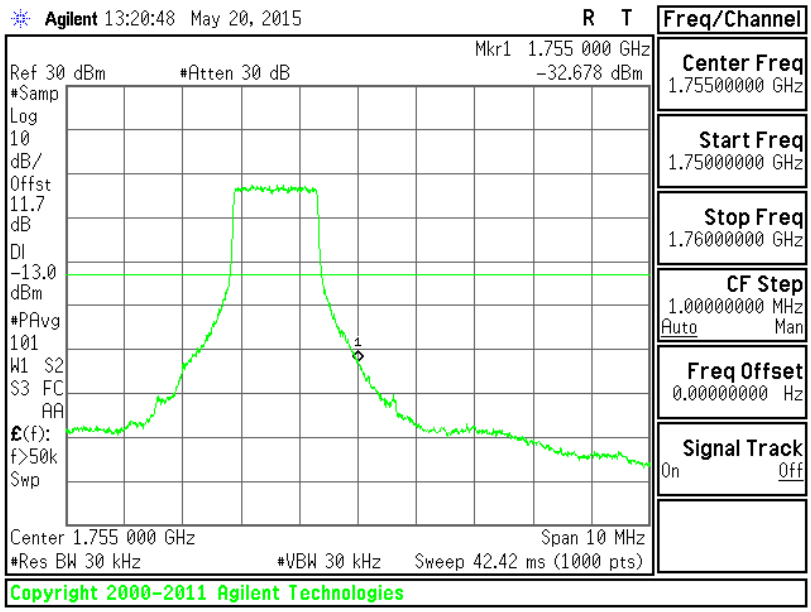
LOW CH, RB8-4



HIGH CH, RB8-4



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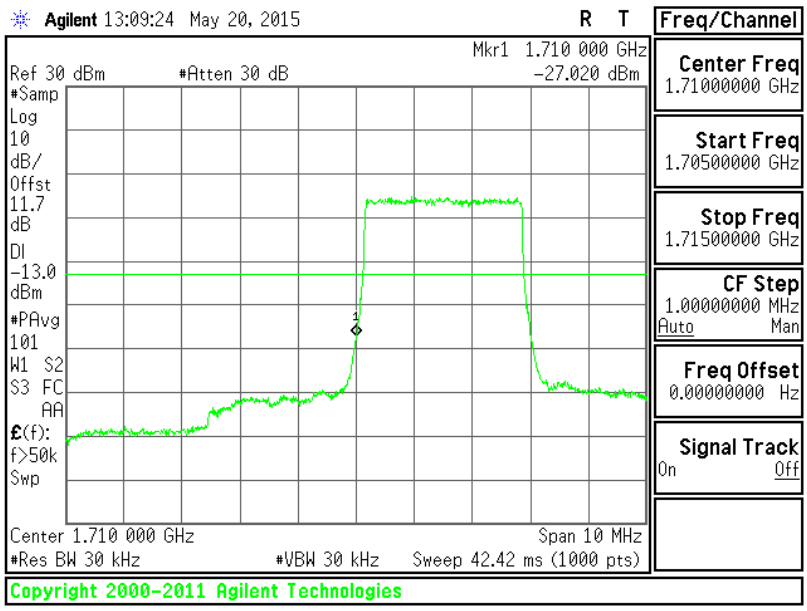
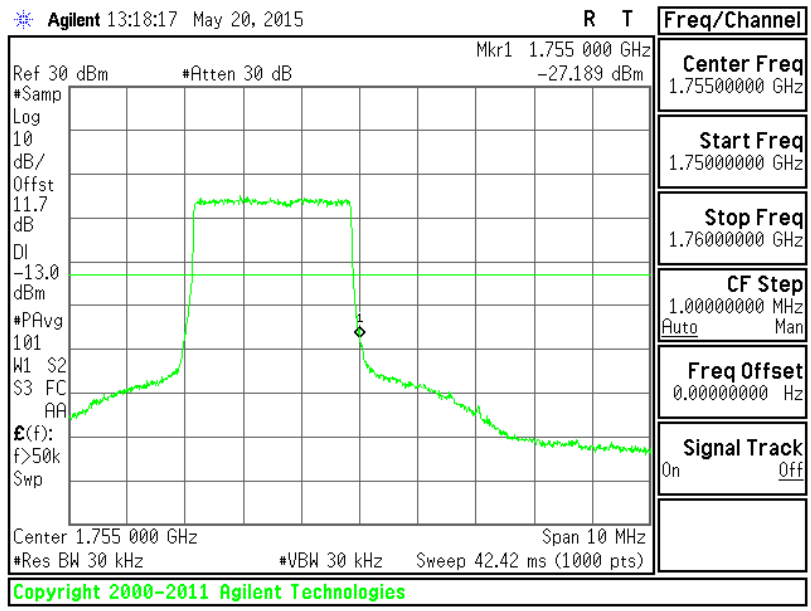
LOW CH, RB15-0



HIGH CH, RB15-0



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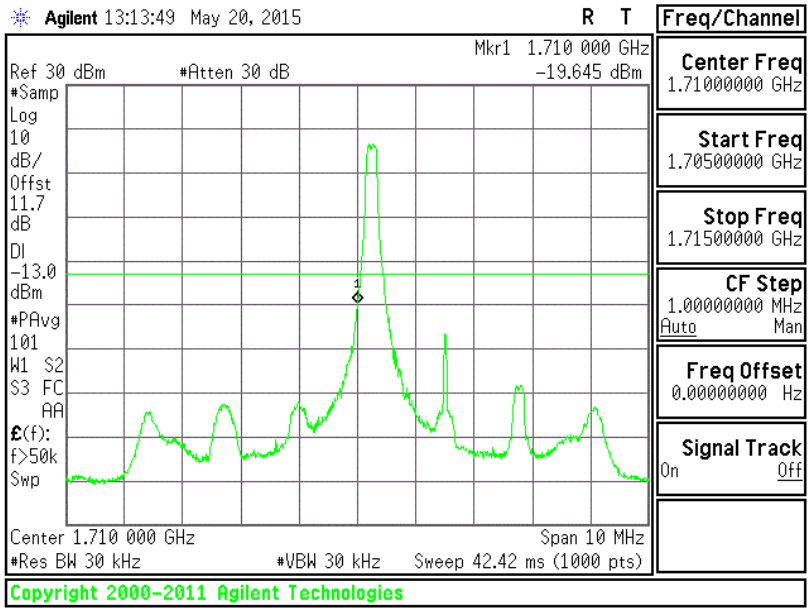
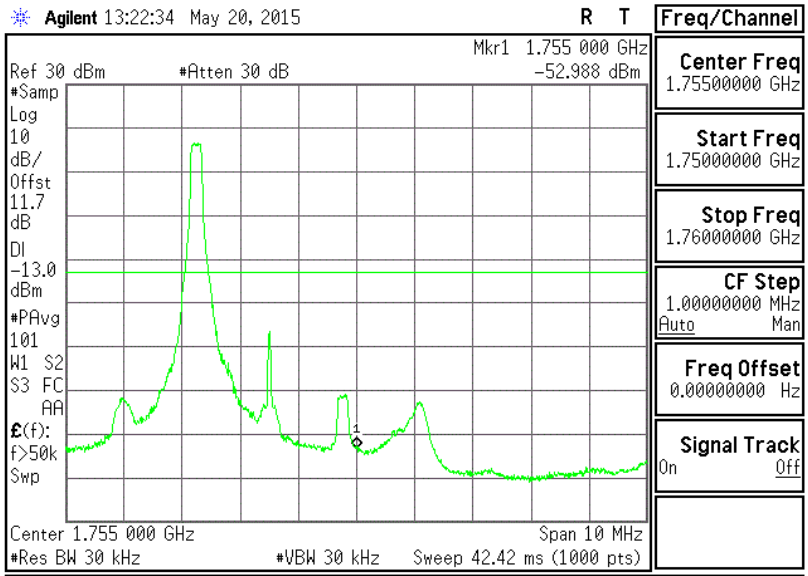
16QAM, (3.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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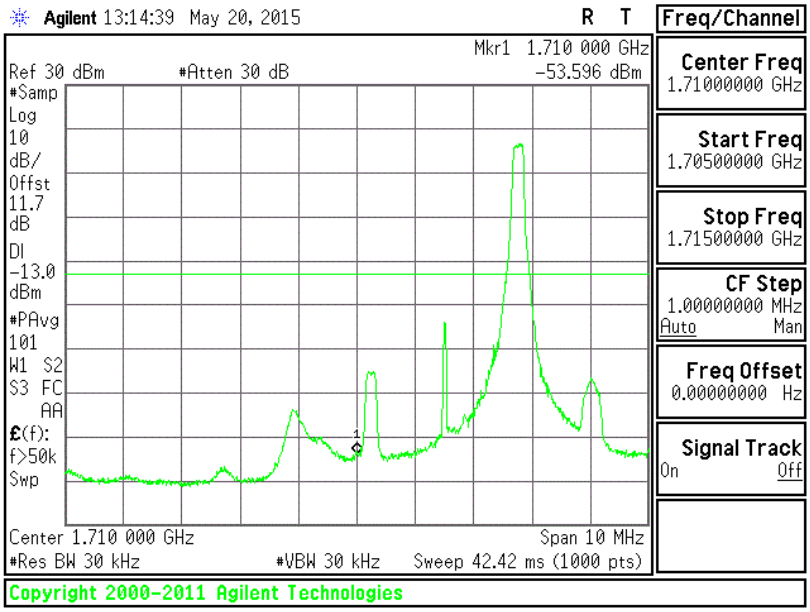
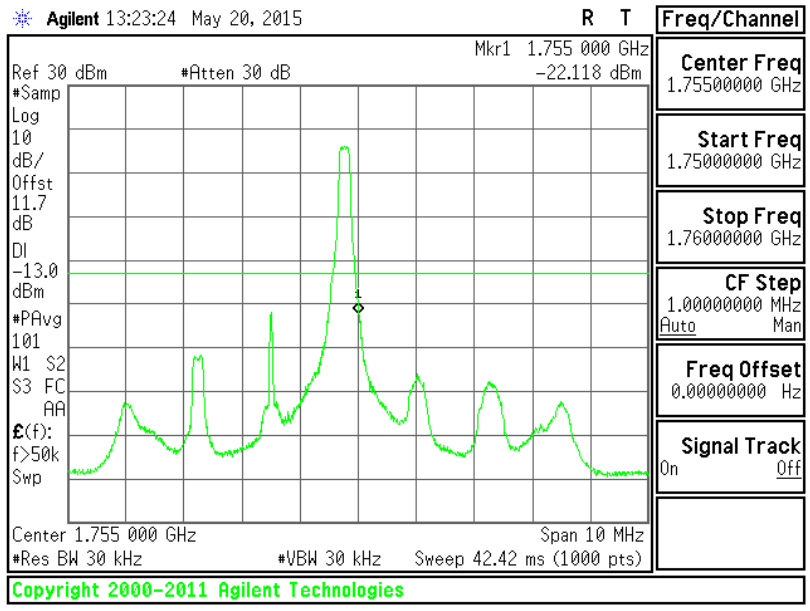
LOW CH, RB1-14



HIGH CH, RB1-14



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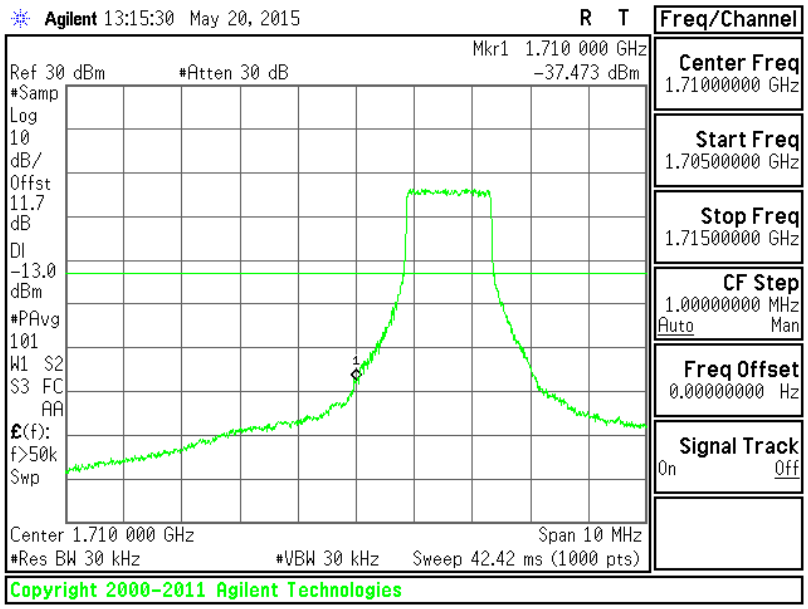
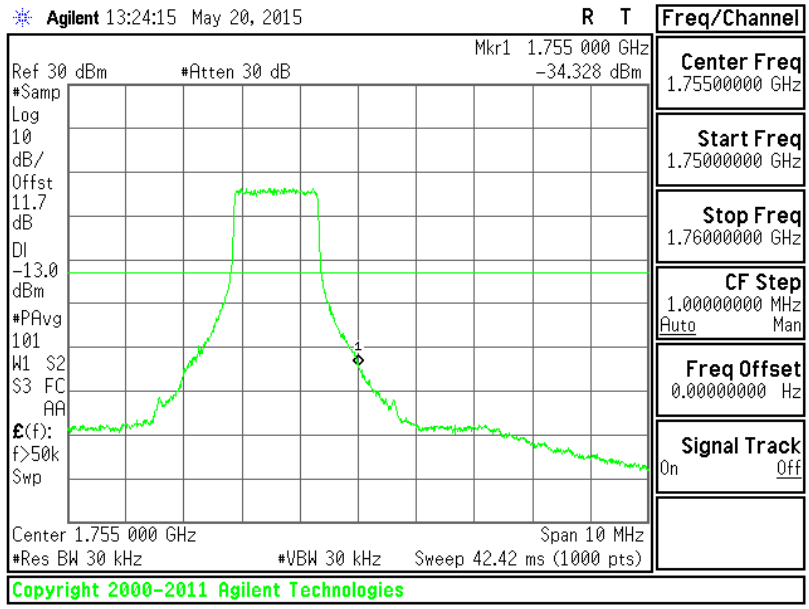
LOW CH, RB8-4



HIGH CH, RB8-4



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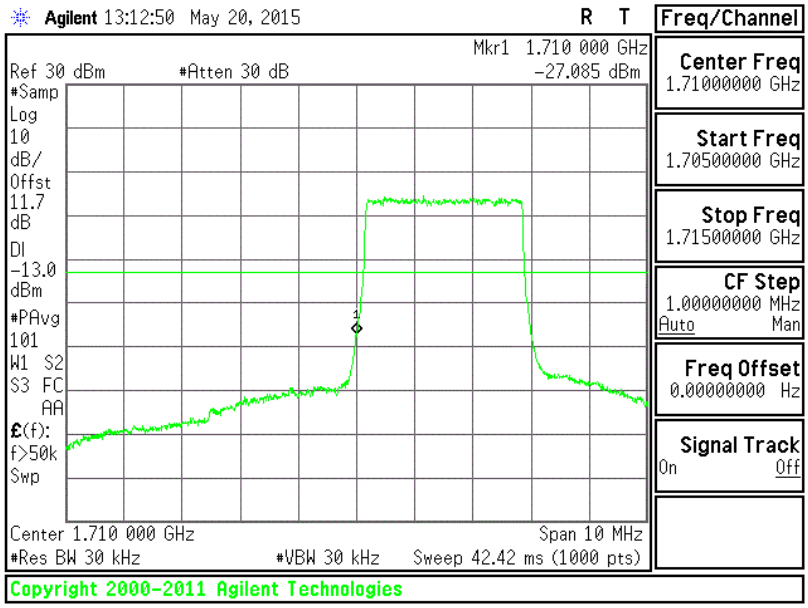
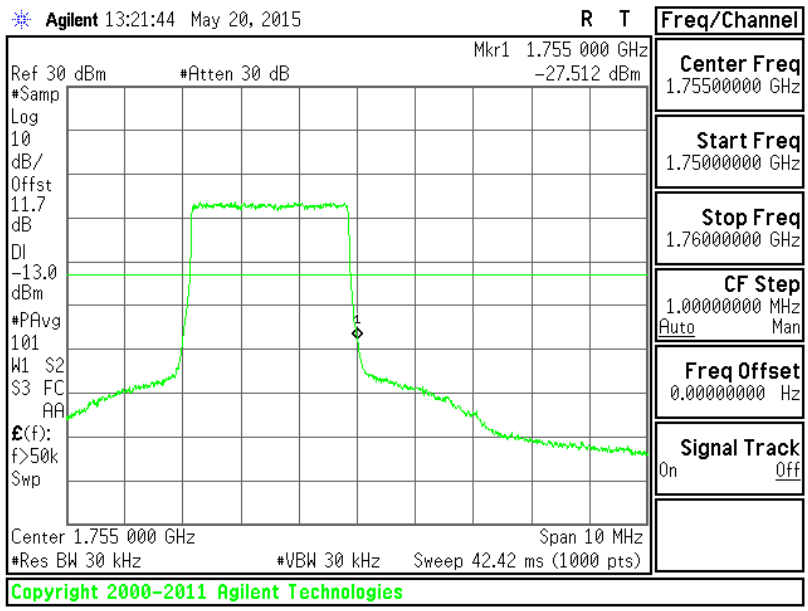
LOW CH, RB15-0



HIGH CH, RB15-0



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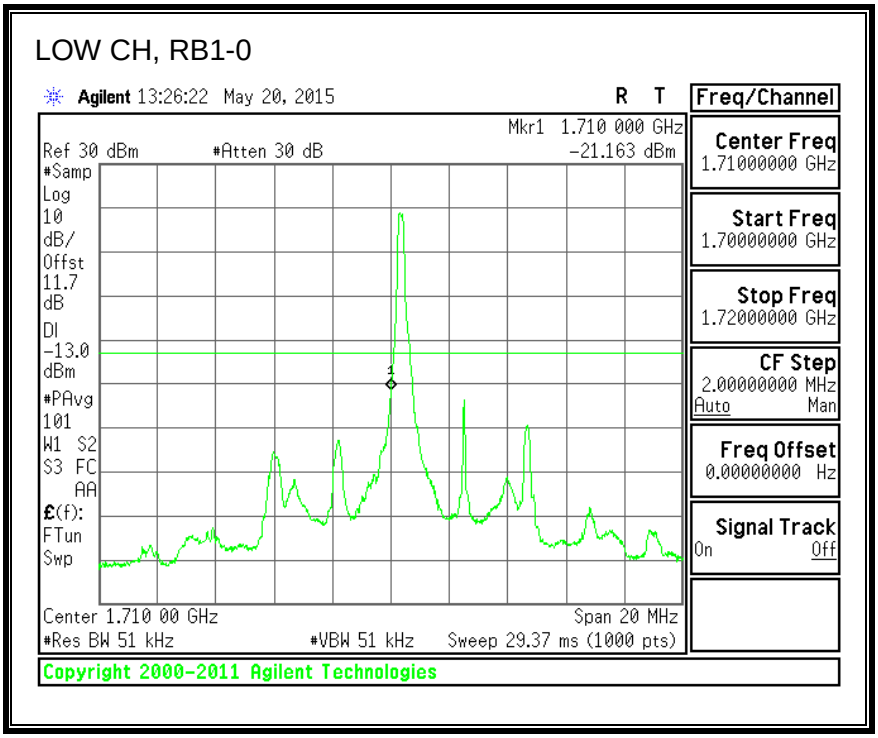
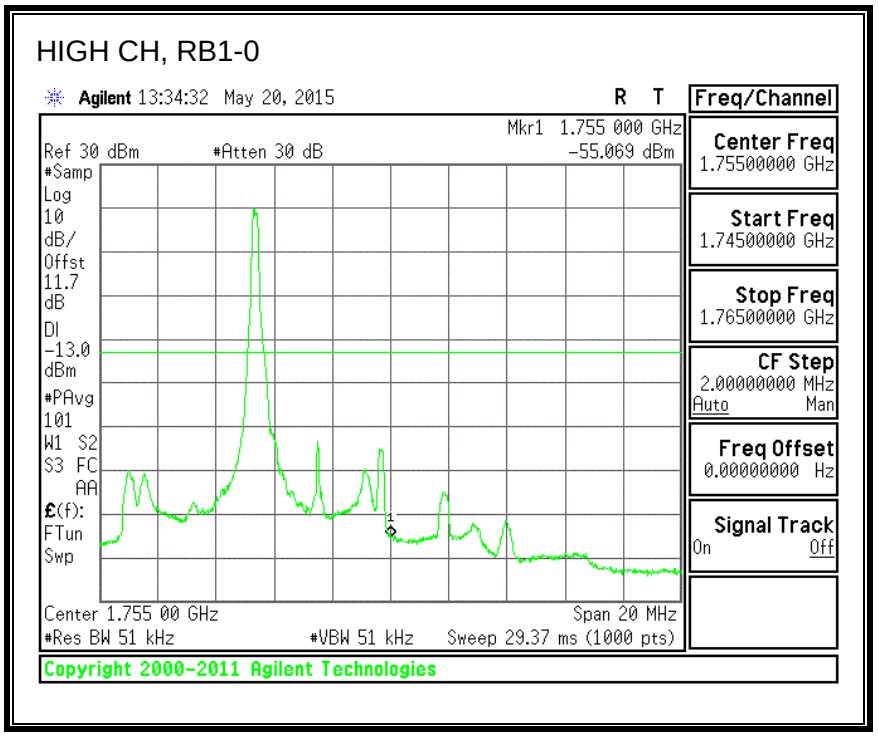
QPSK, (5.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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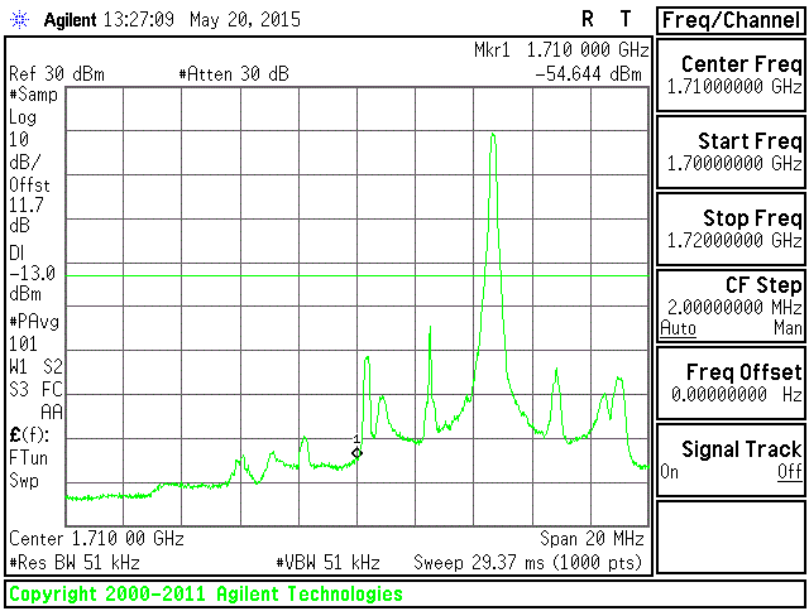
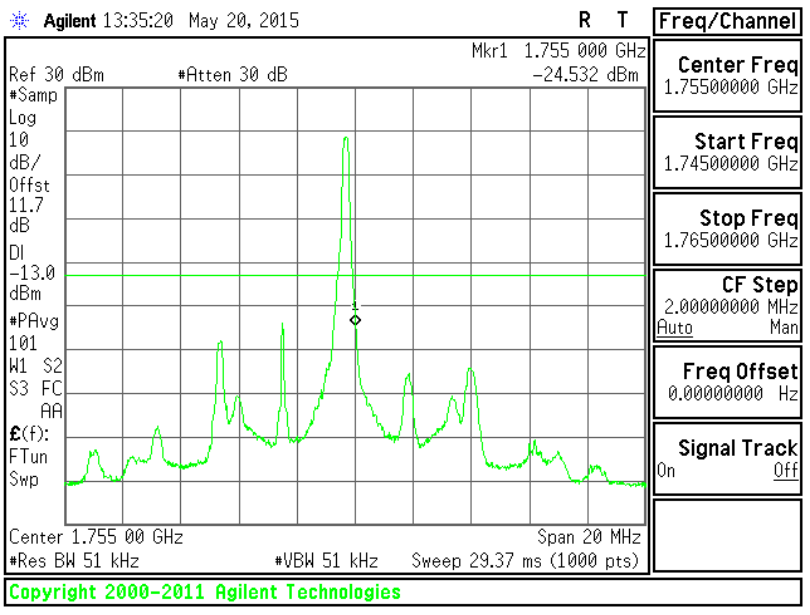
LOW CH, RB1-24



HIGH CH, RB1-24



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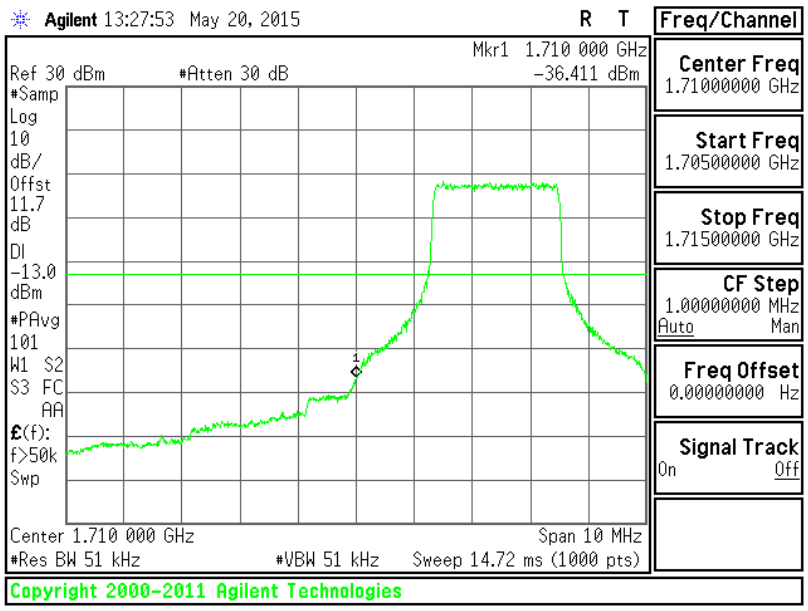
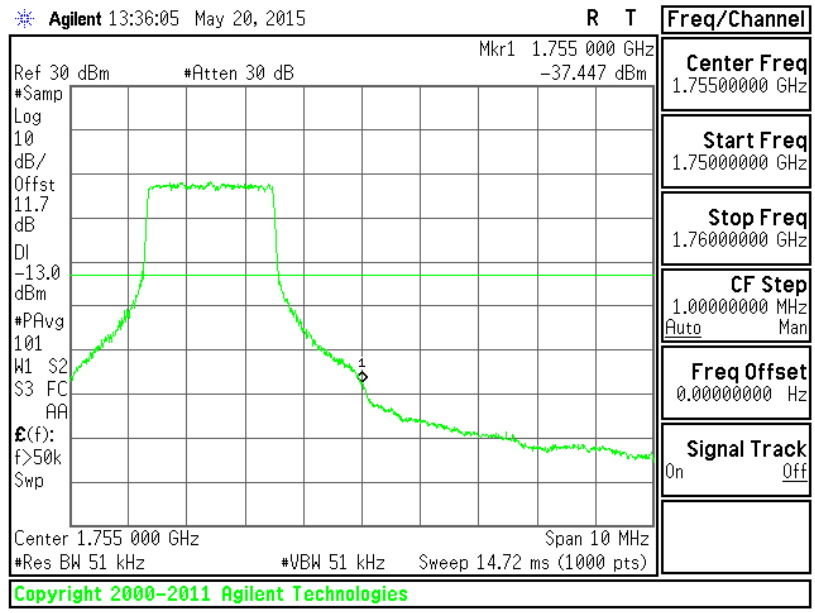
LOW CH, RB12-6



HIGH CH, RB12-6



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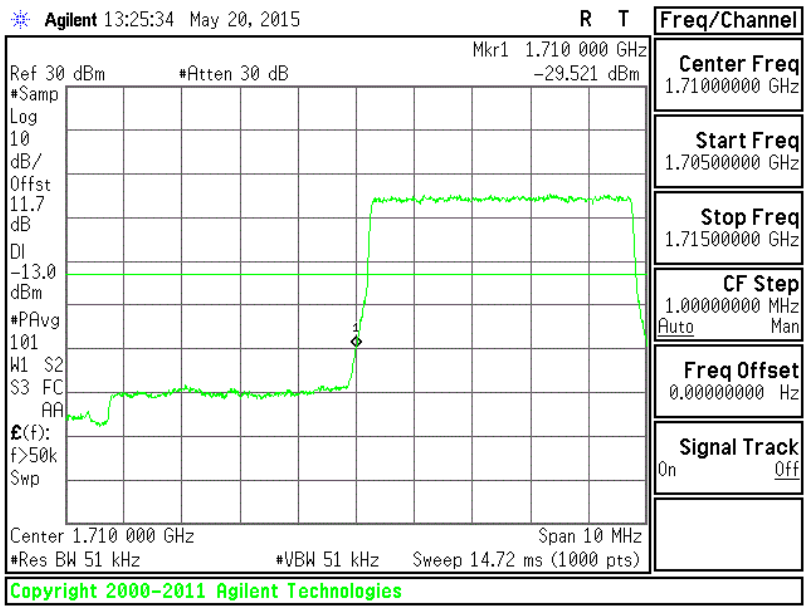
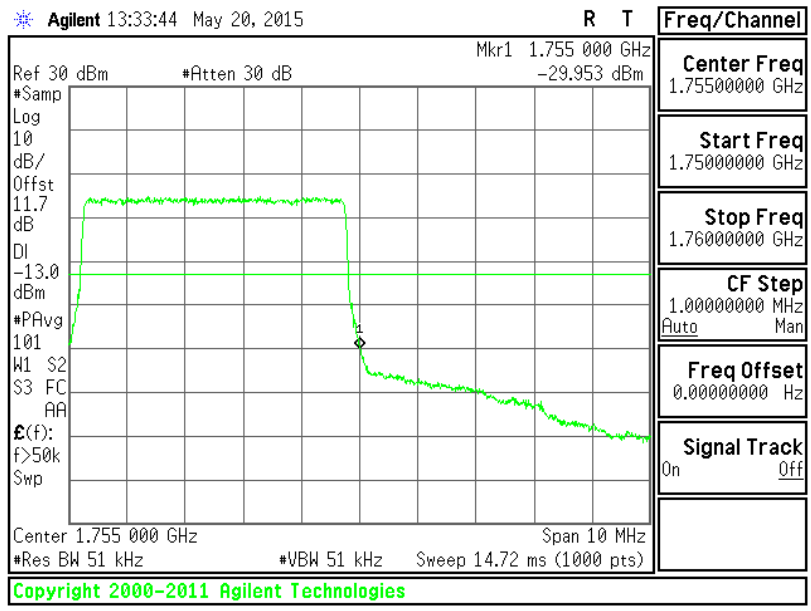
LOW CH, RB25-0



HIGH CH, RB25-0



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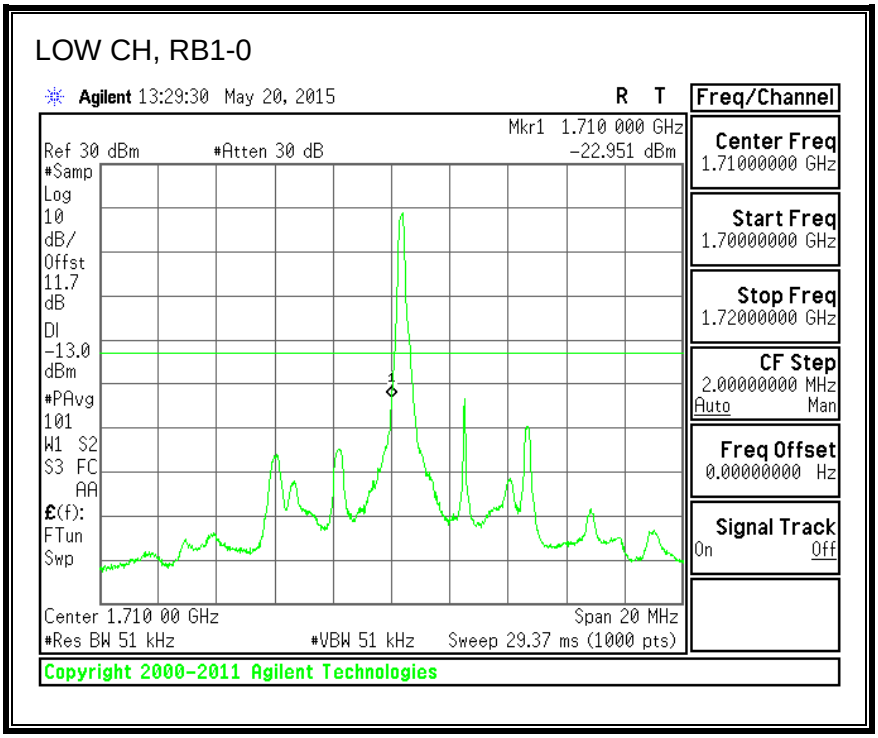
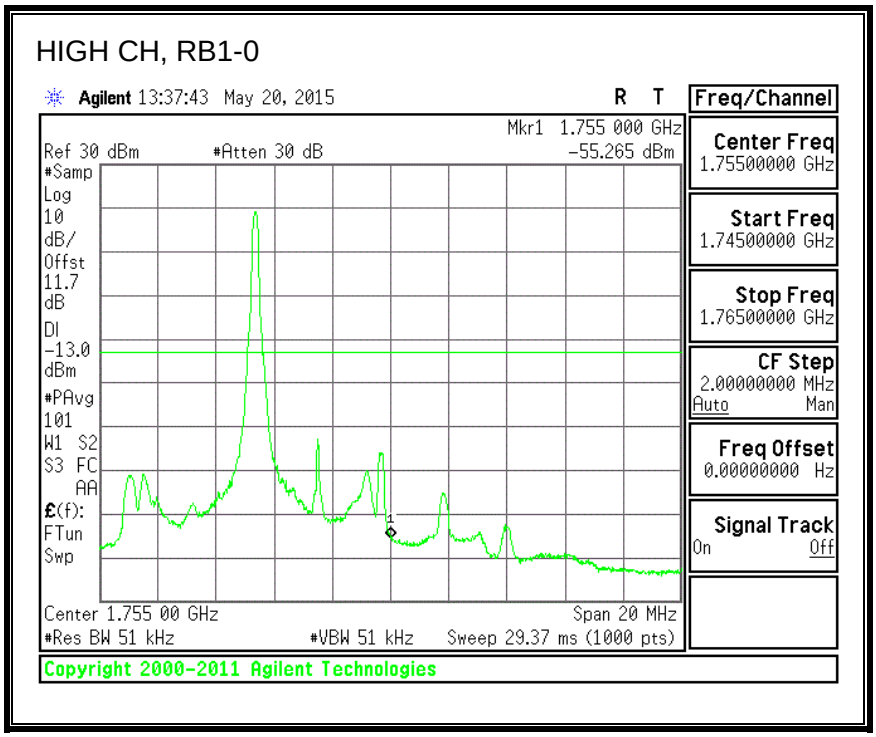
16QAM, (5.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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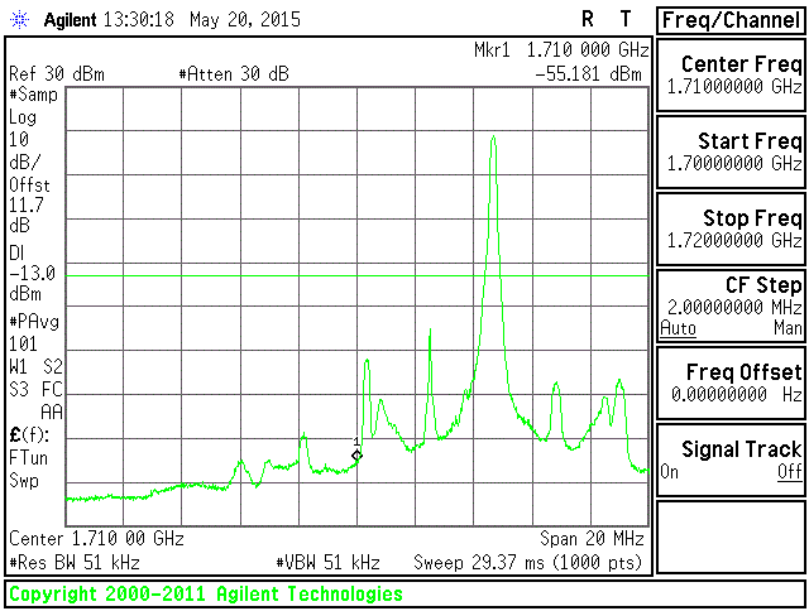
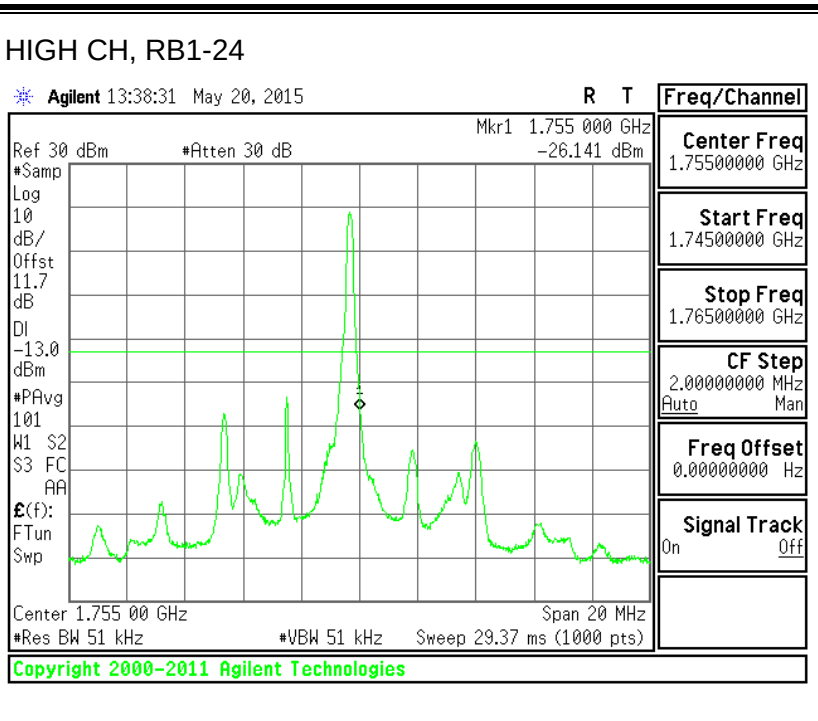
LOW CH, RB1-24



HIGH CH, RB1-24



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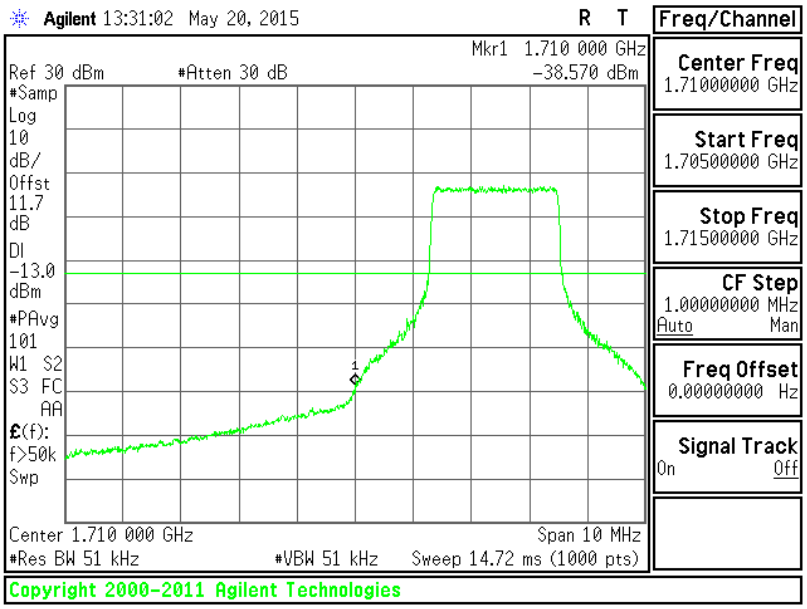
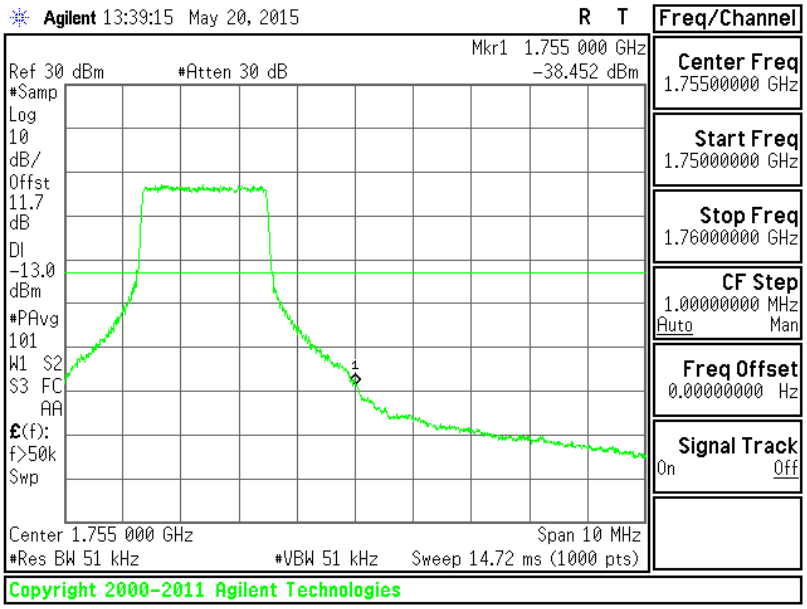
LOW CH, RB12-6



HIGH CH, RB12-6



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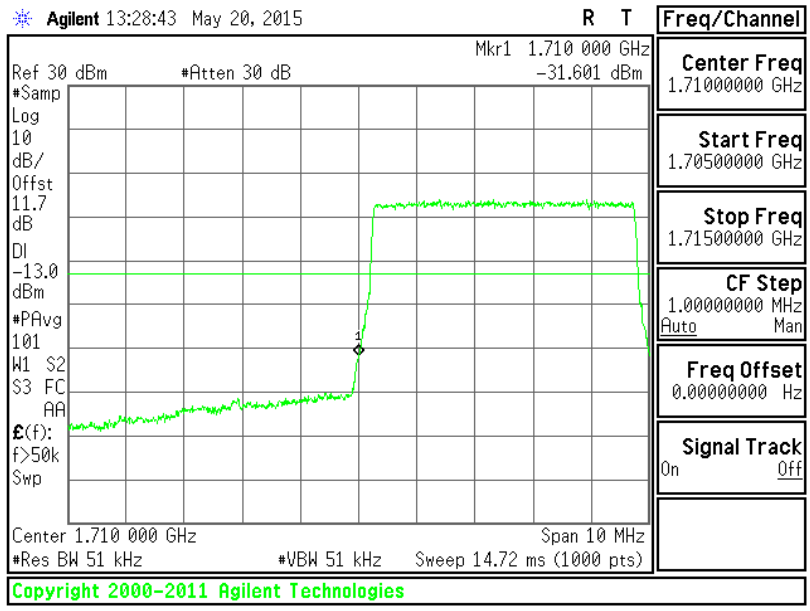
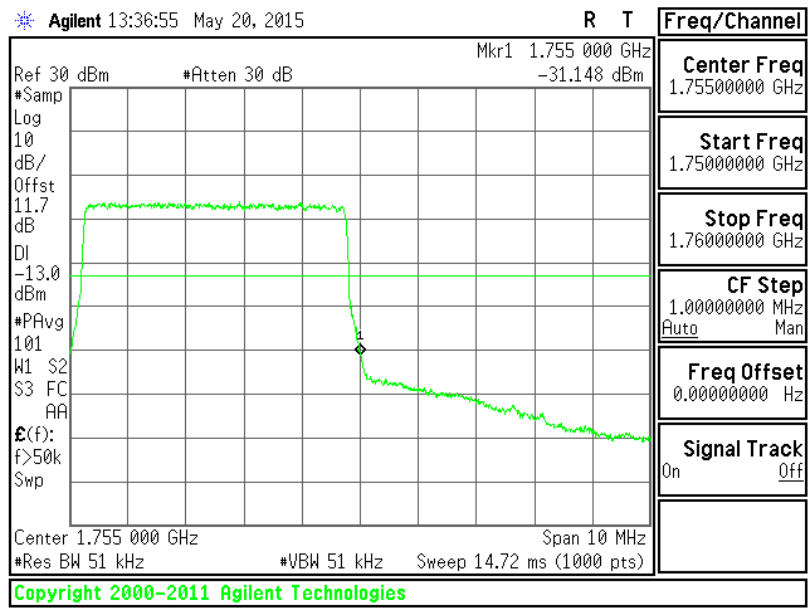
LOW CH, RB25-0



HIGH CH, RB25-0



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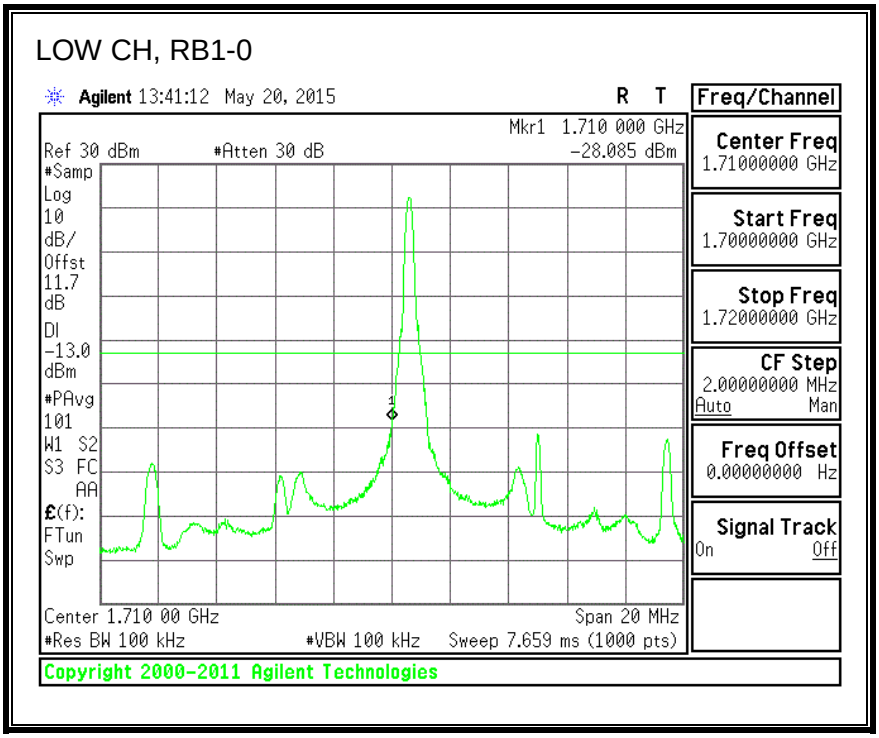
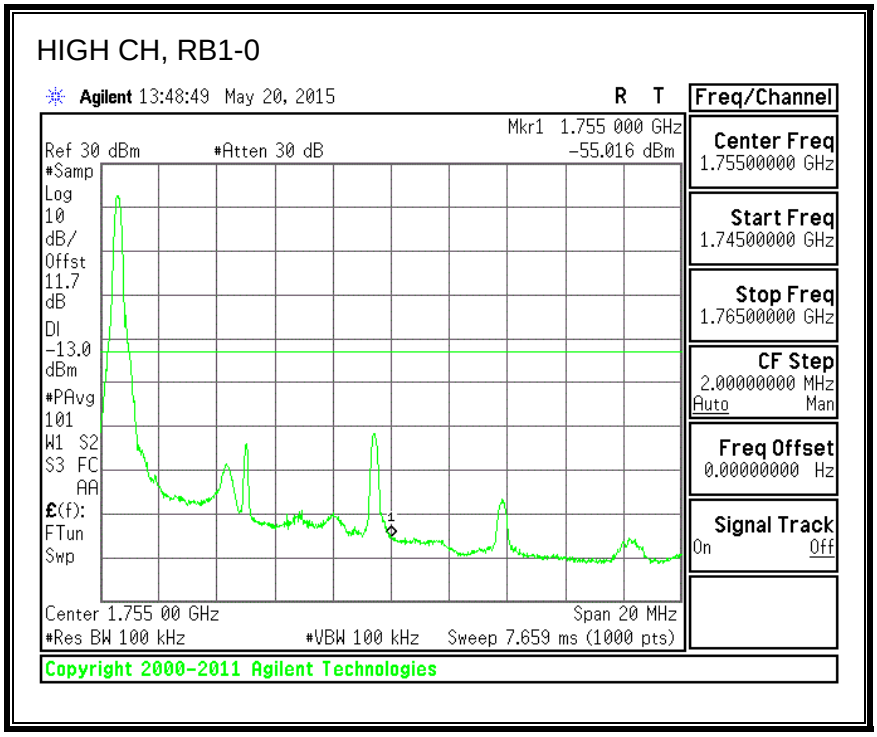
QPSK, (10.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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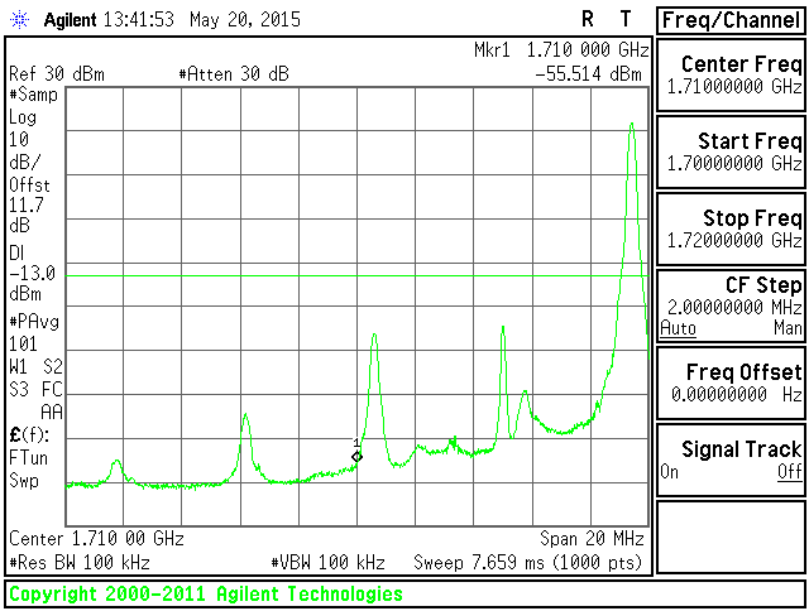
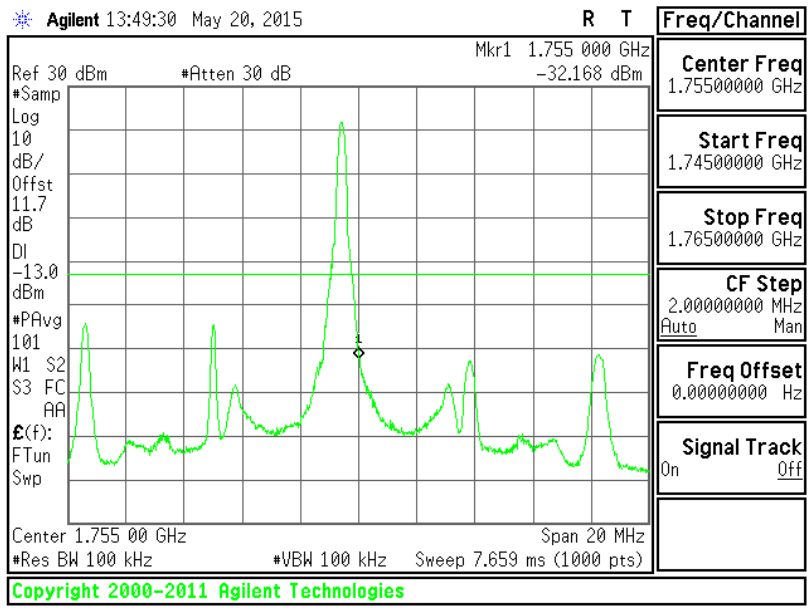
LOW CH, RB1-49



HIGH CH, RB1-49



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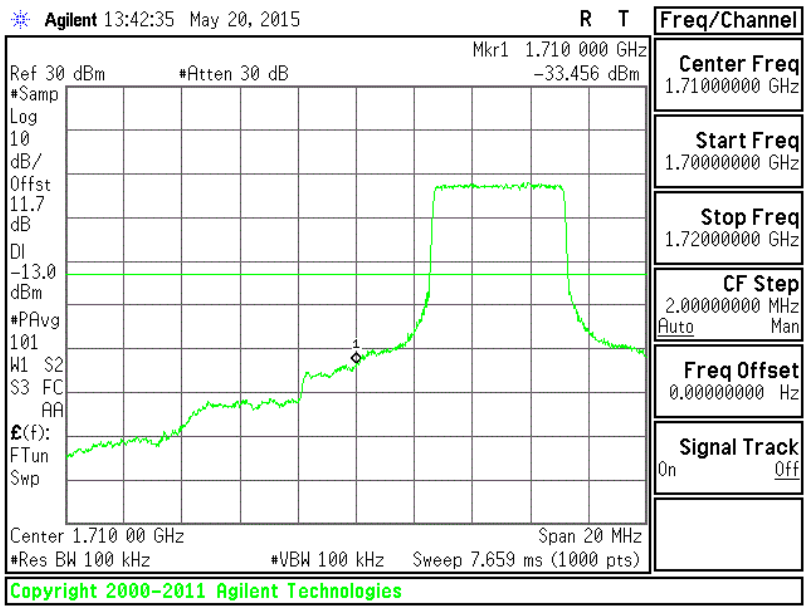
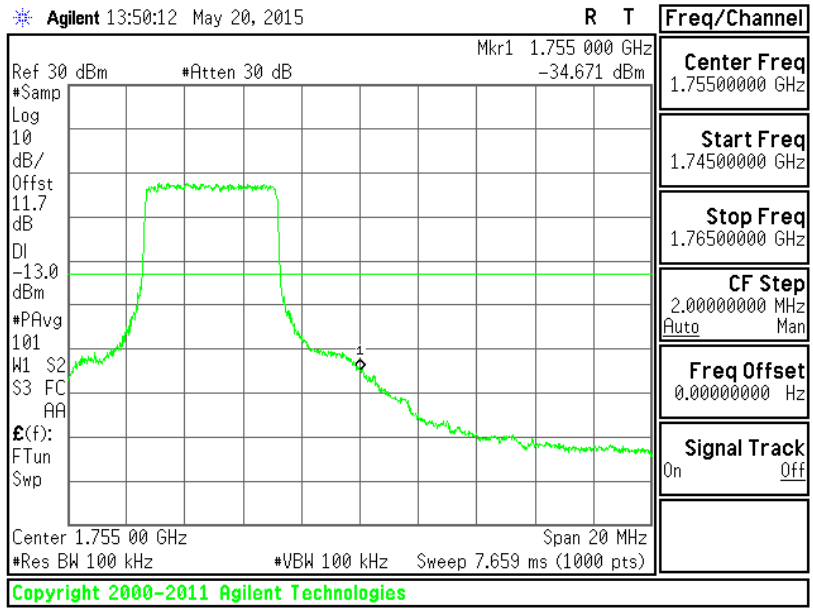
LOW CH, RB25-12



HIGH CH, RB25-12



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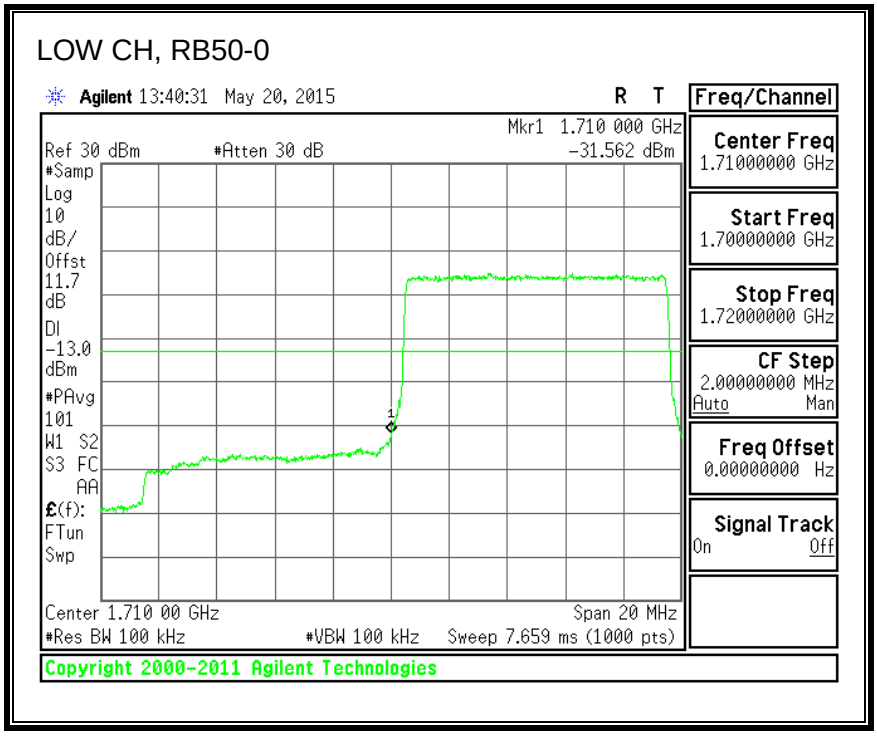
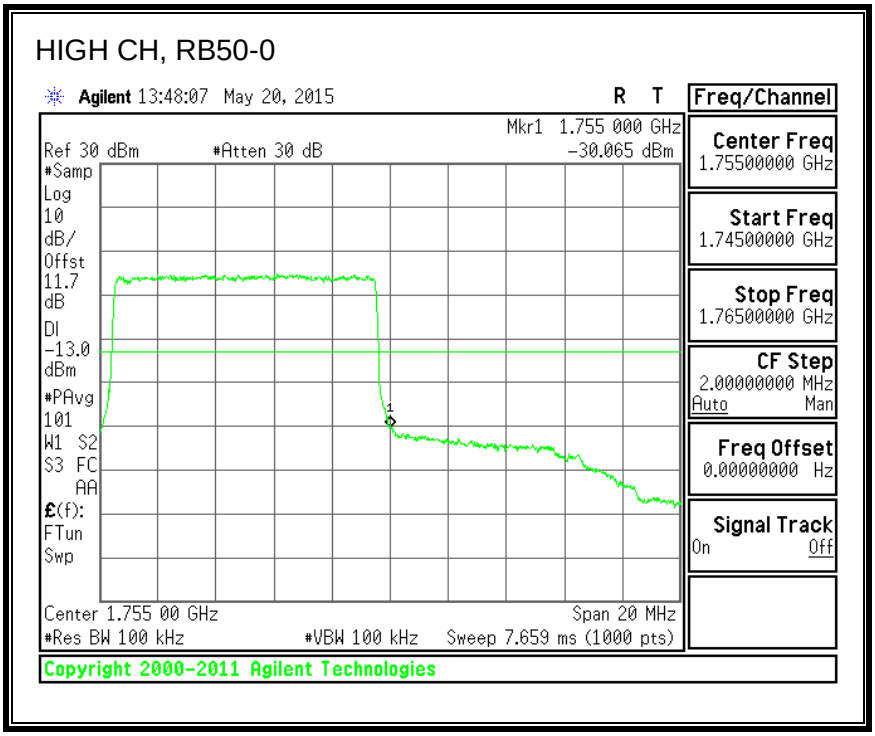
LOW CH, RB50-0



HIGH CH, RB50-0



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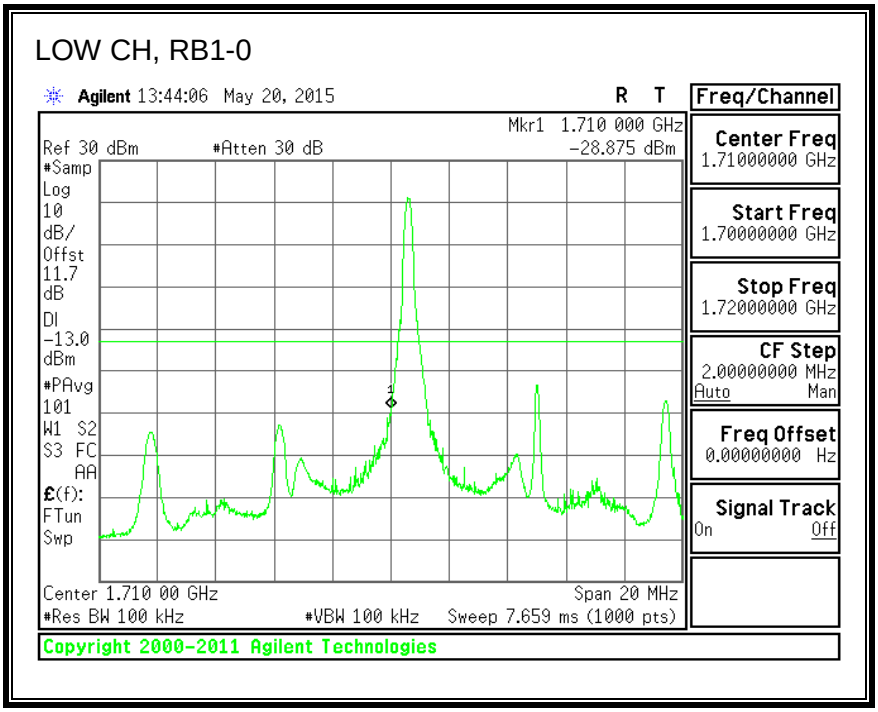
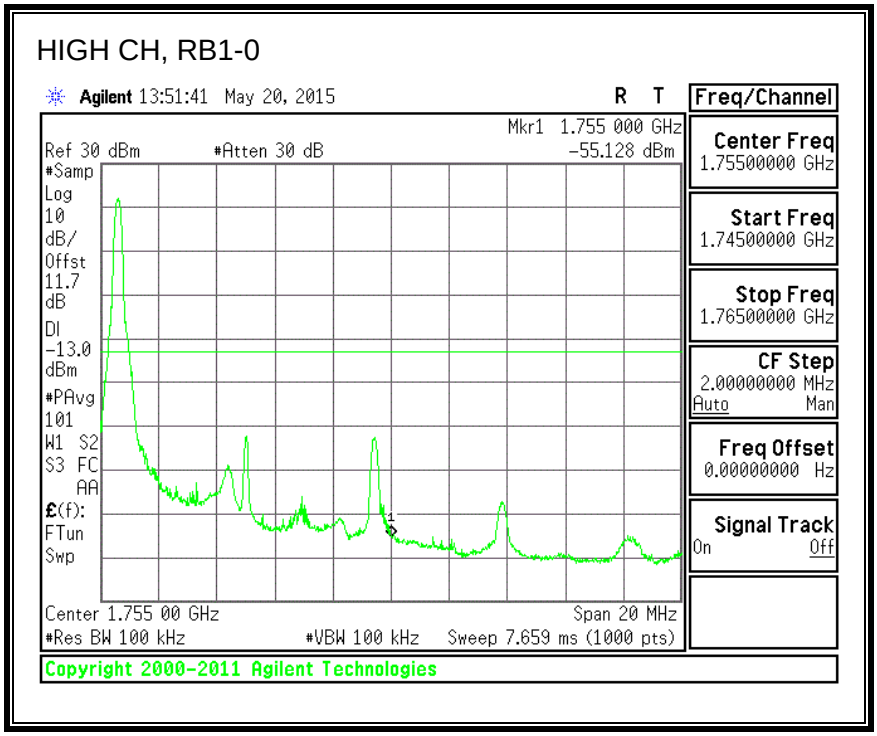
16QAM, (10.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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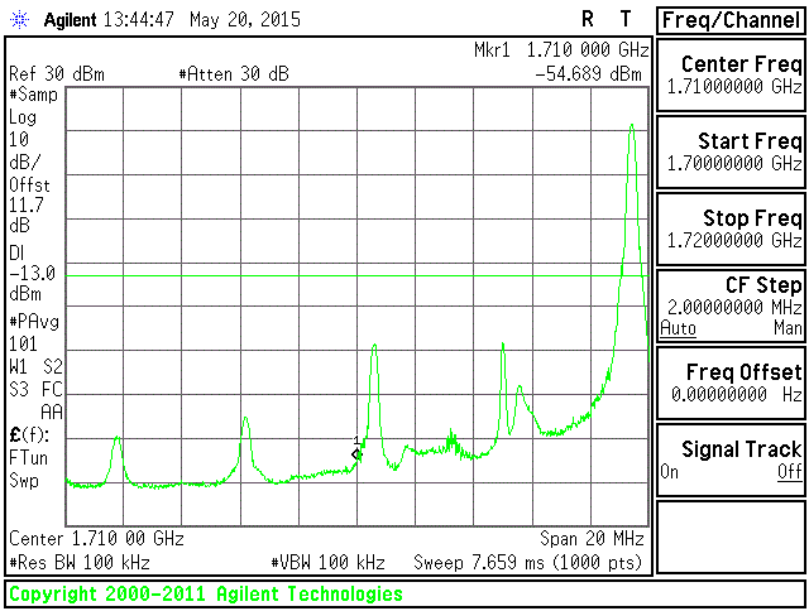
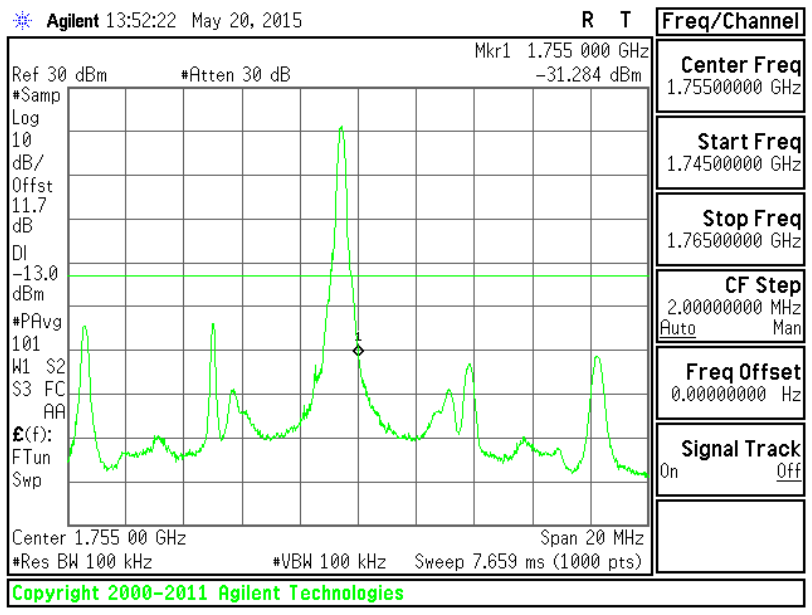
LOW CH, RB1-49



HIGH CH, RB1-49



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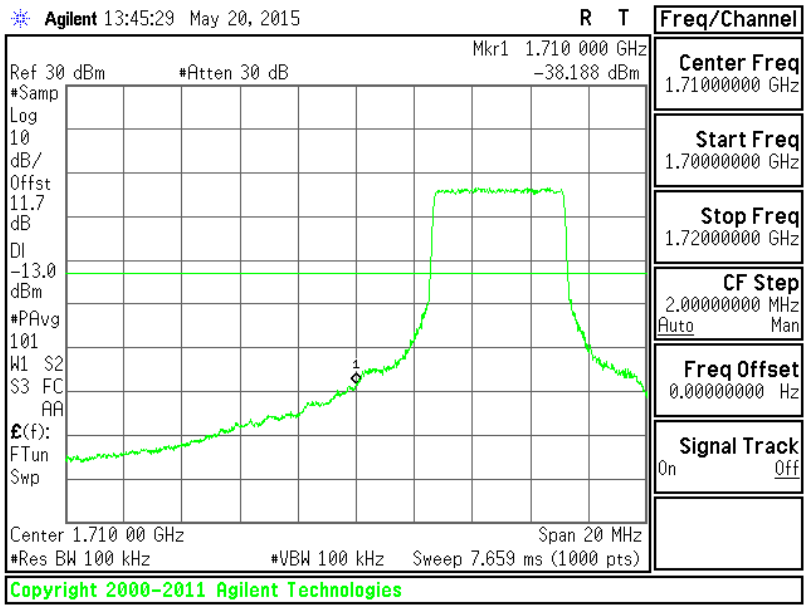
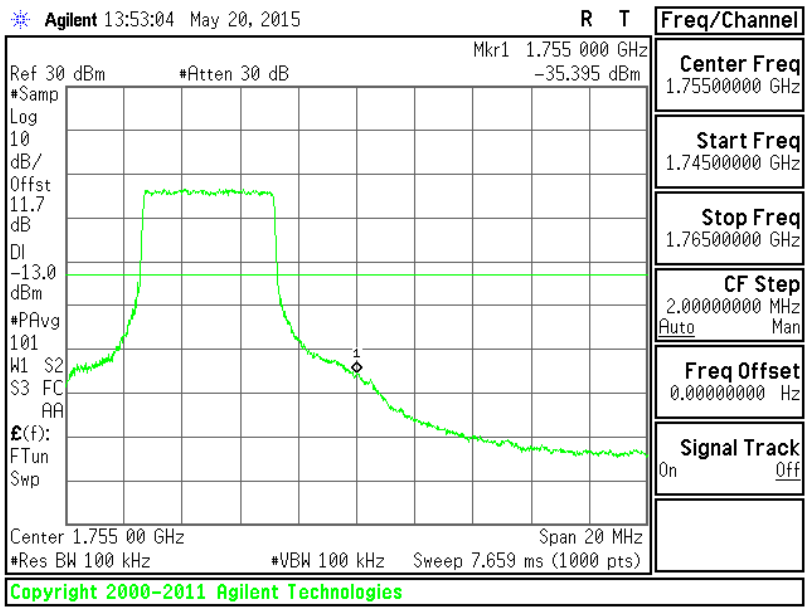
LOW CH, RB25-12



HIGH CH, RB25-12



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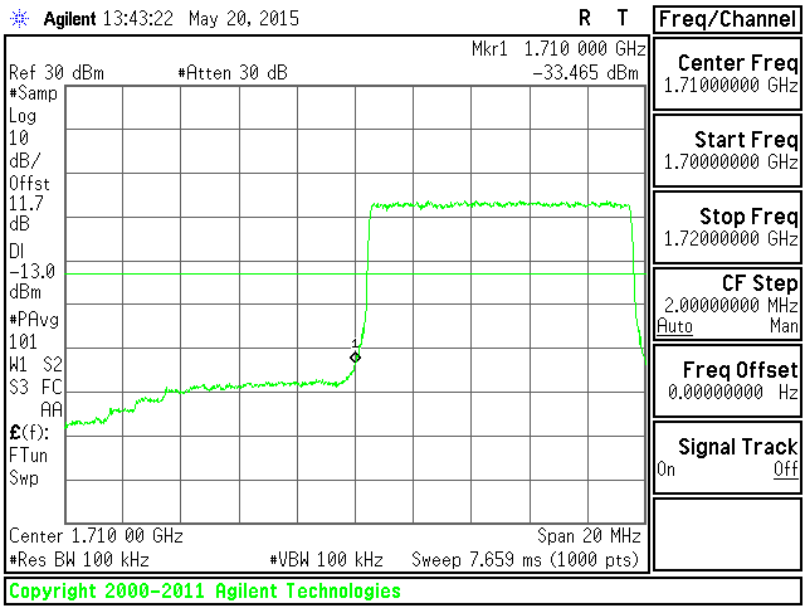
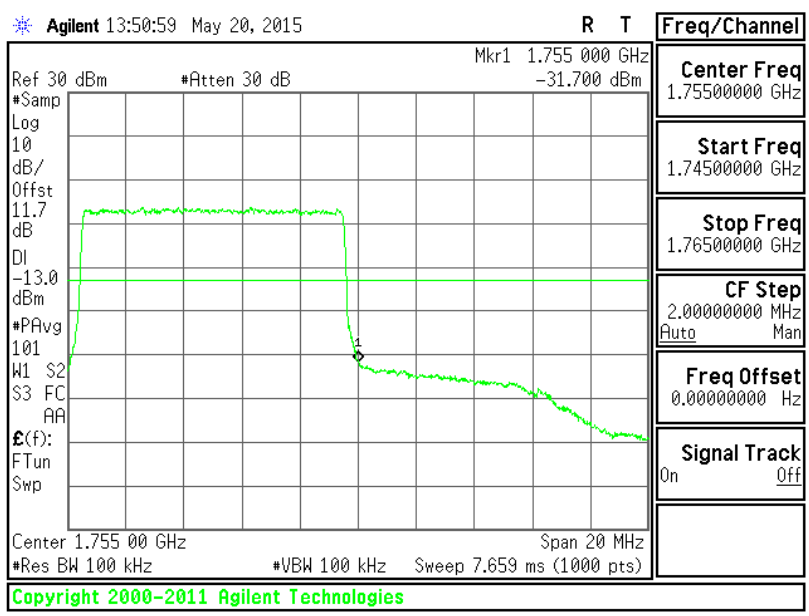
LOW CH, RB50-0



HIGH CH, RB50-0



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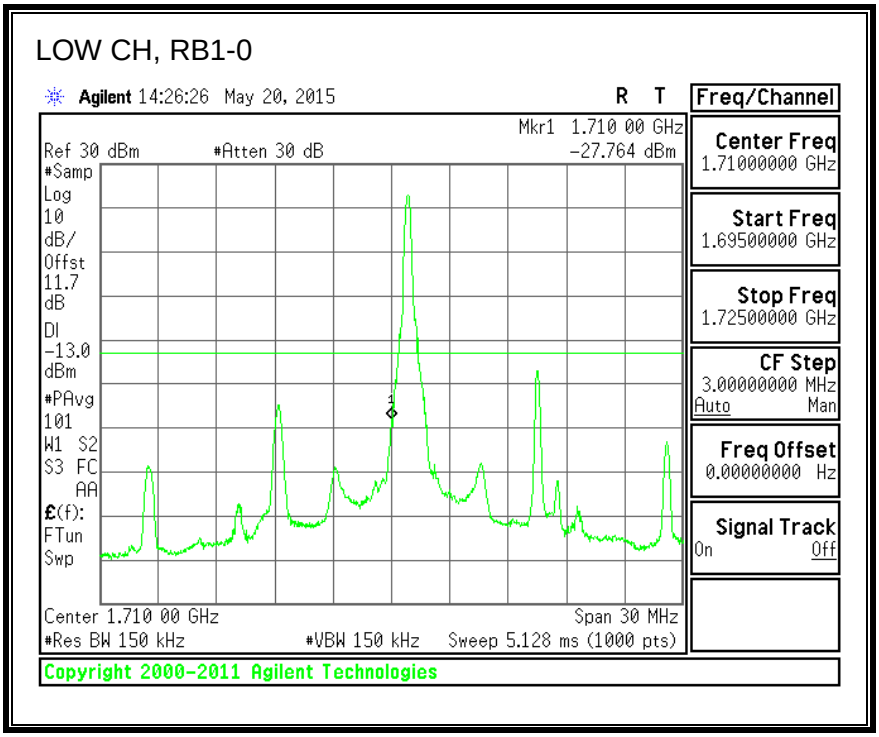
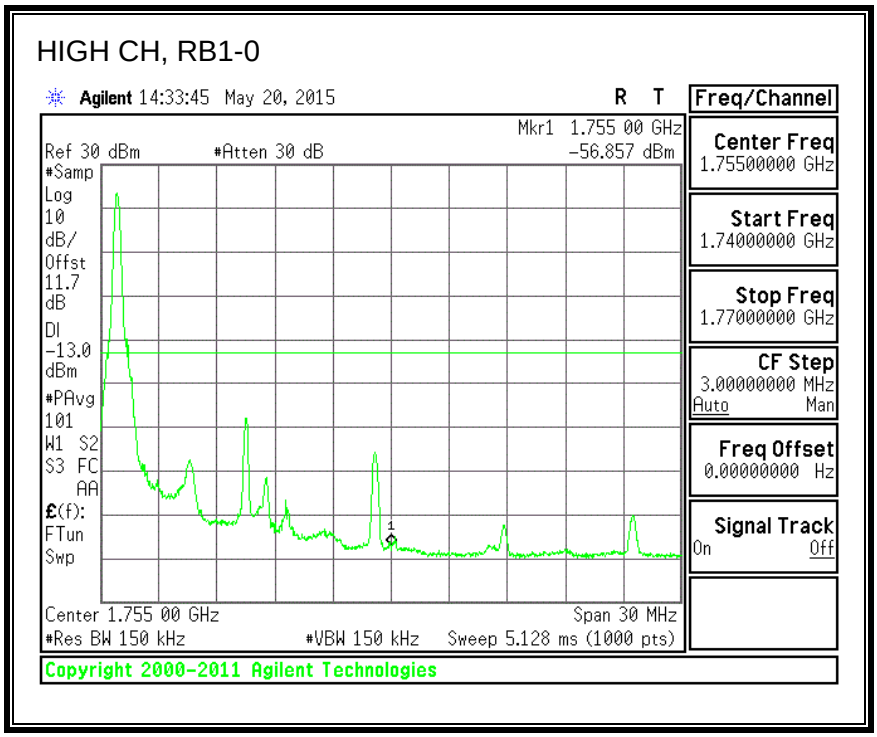
QPSK, (15.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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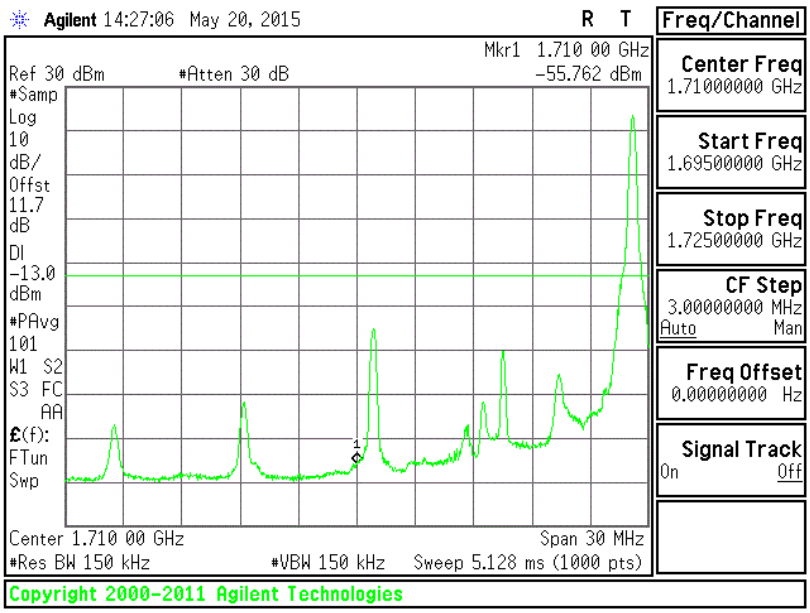
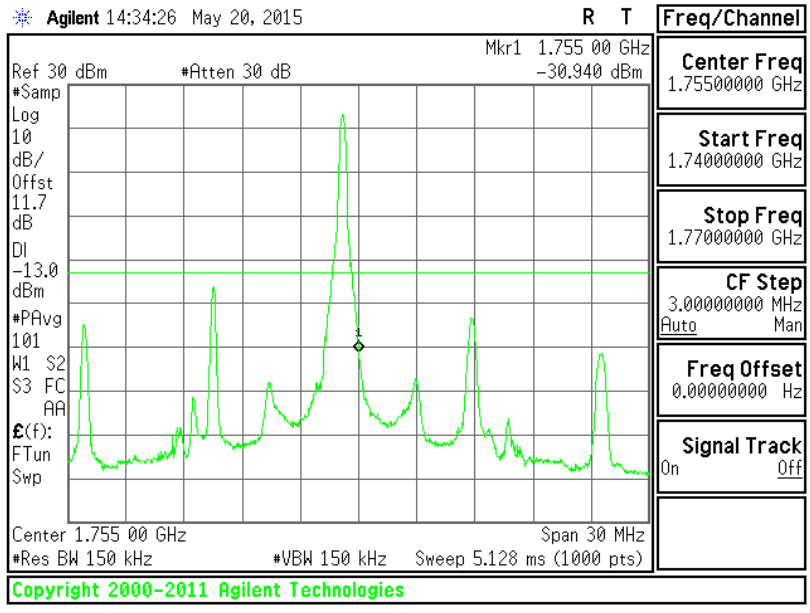
LOW CH, RB1-74



HIGH CH, RB1-74



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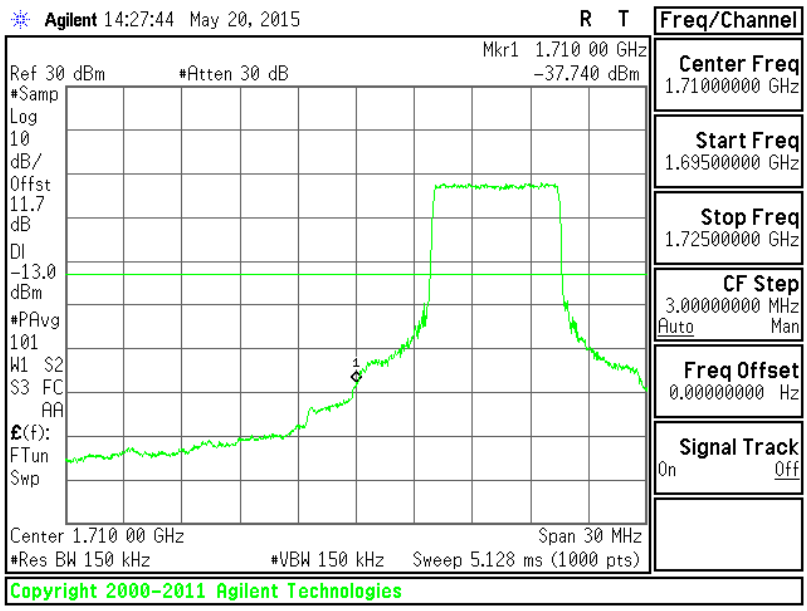
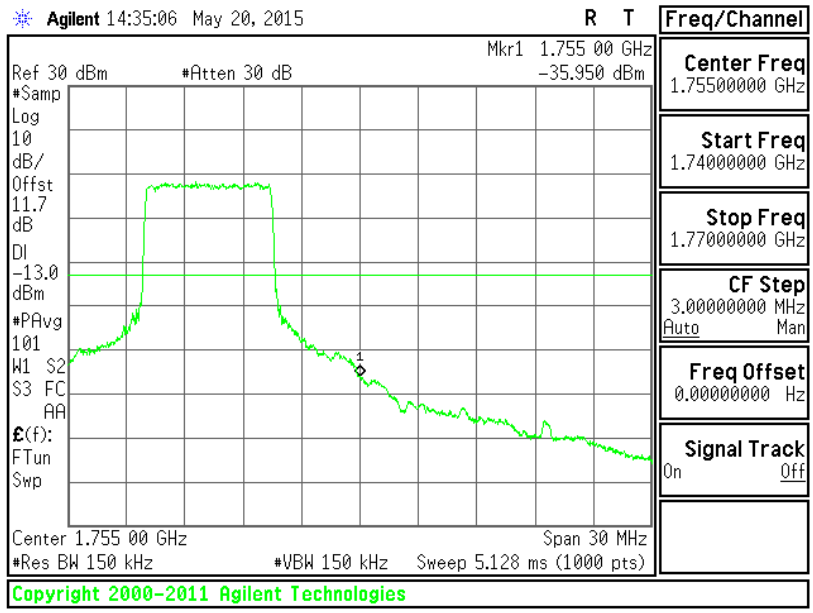
LOW CH, RB36-18



HIGH CH, RB36-18



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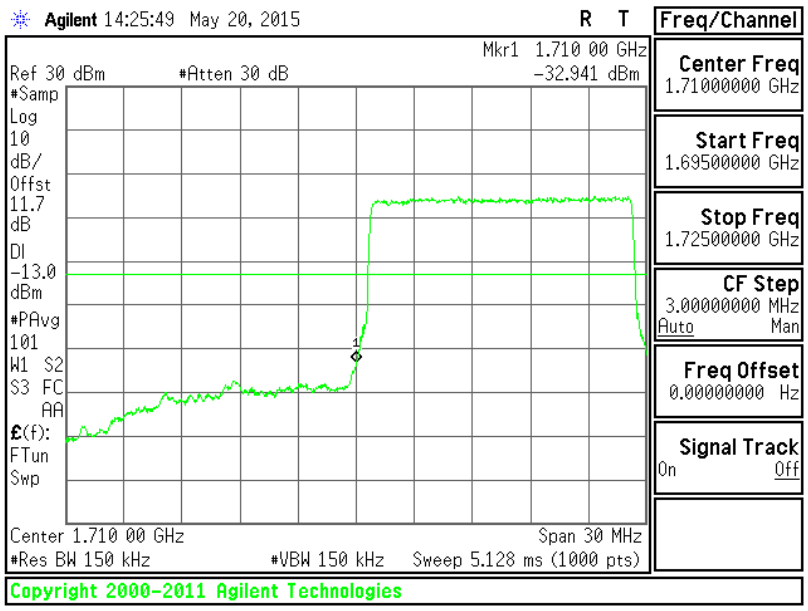
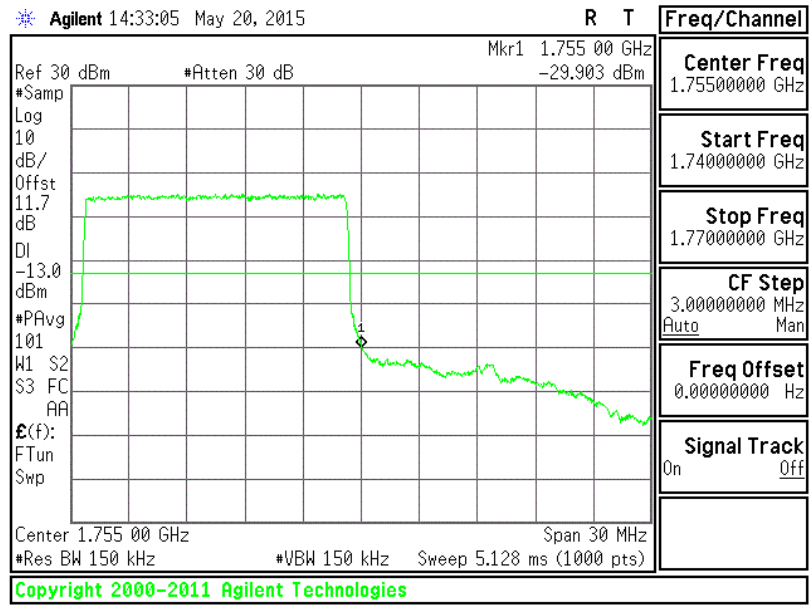
LOW CH, RB75-0



HIGH CH, RB75-0



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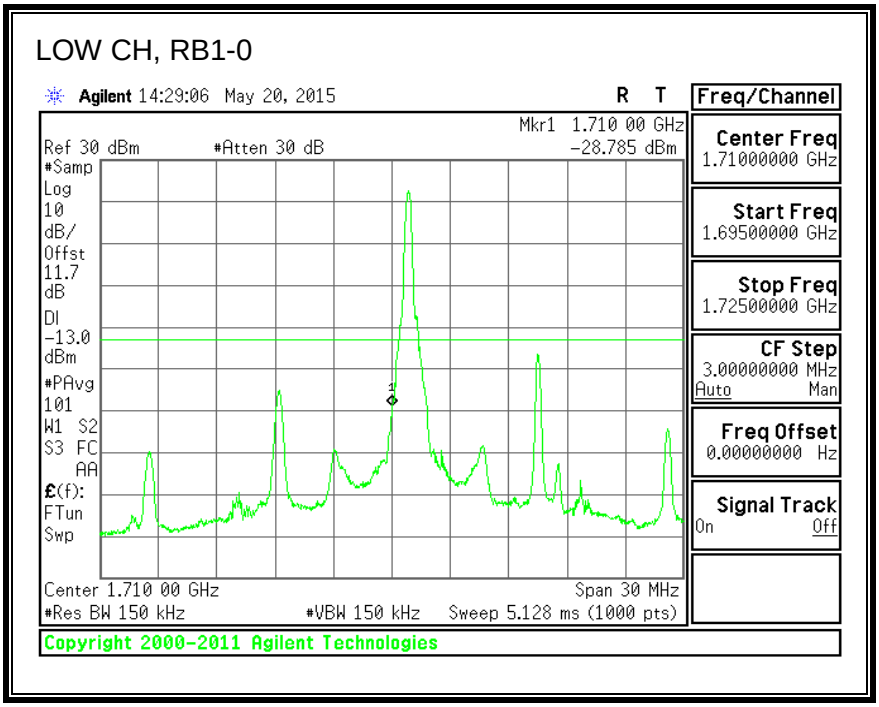
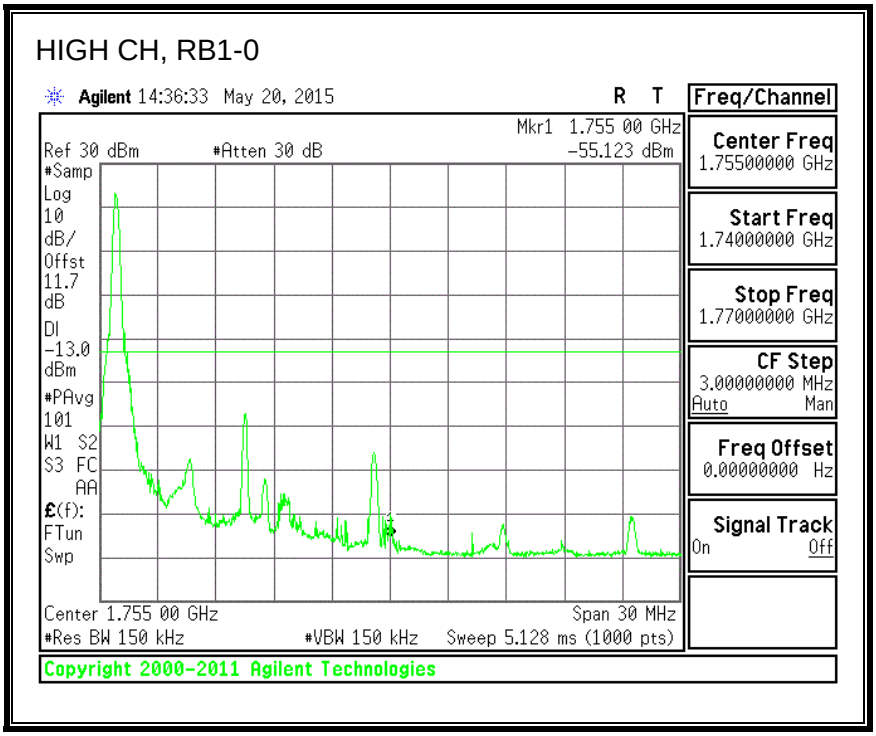
16QAM, (15.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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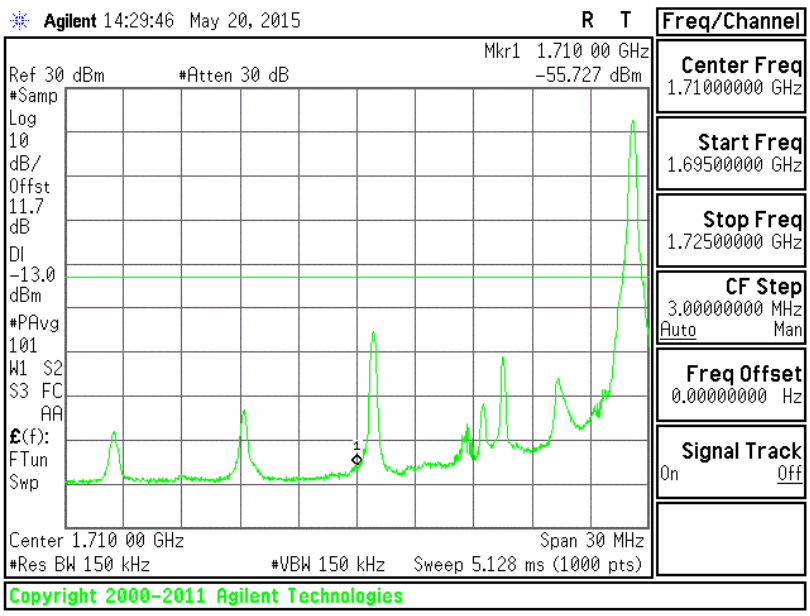
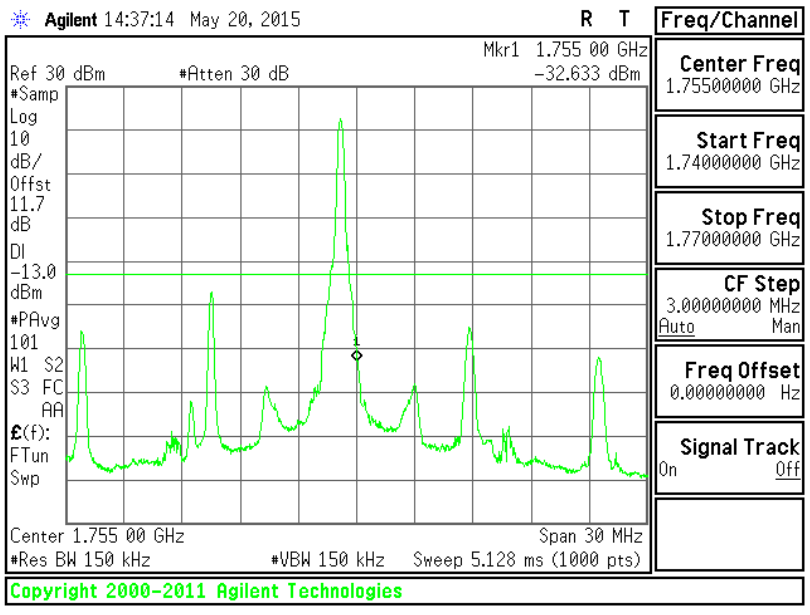
LOW CH, RB1-74



HIGH CH, RB1-74



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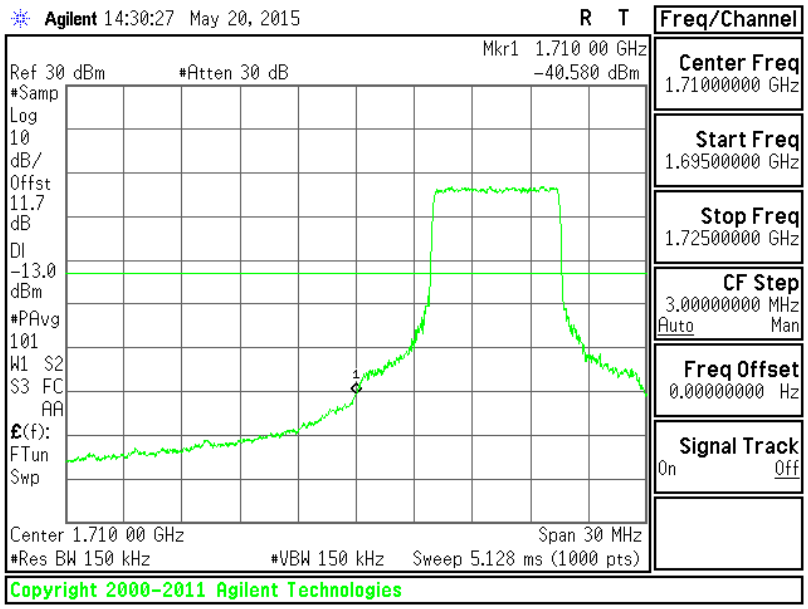
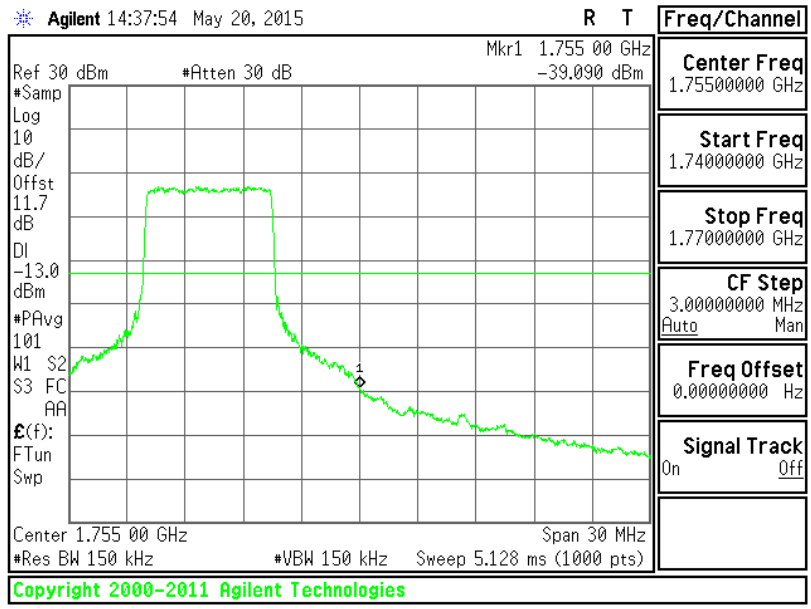
LOW CH, RB36-18



HIGH CH, RB36-18



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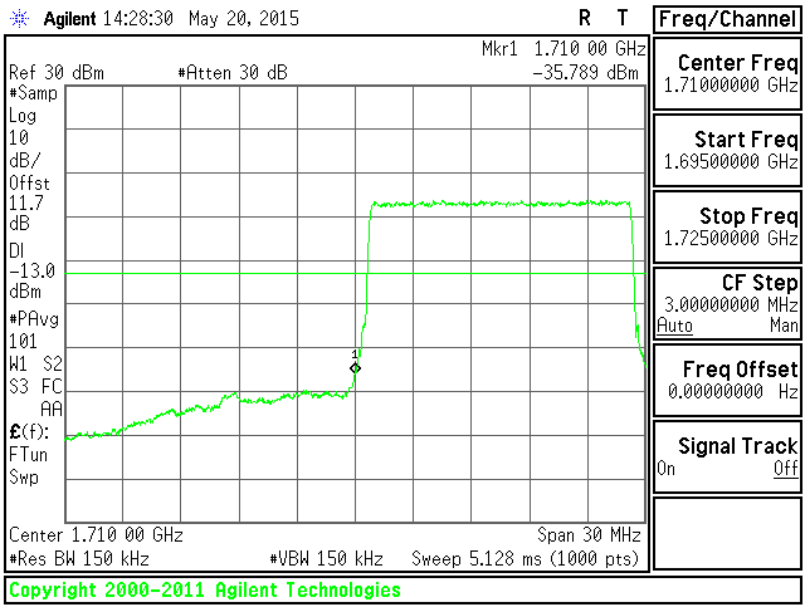
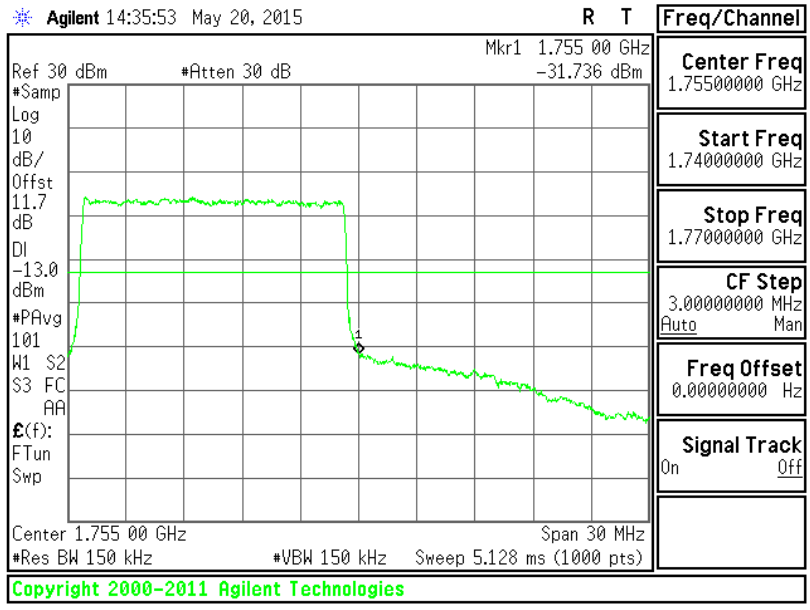
LOW CH, RB75-0



HIGH CH, RB75-0



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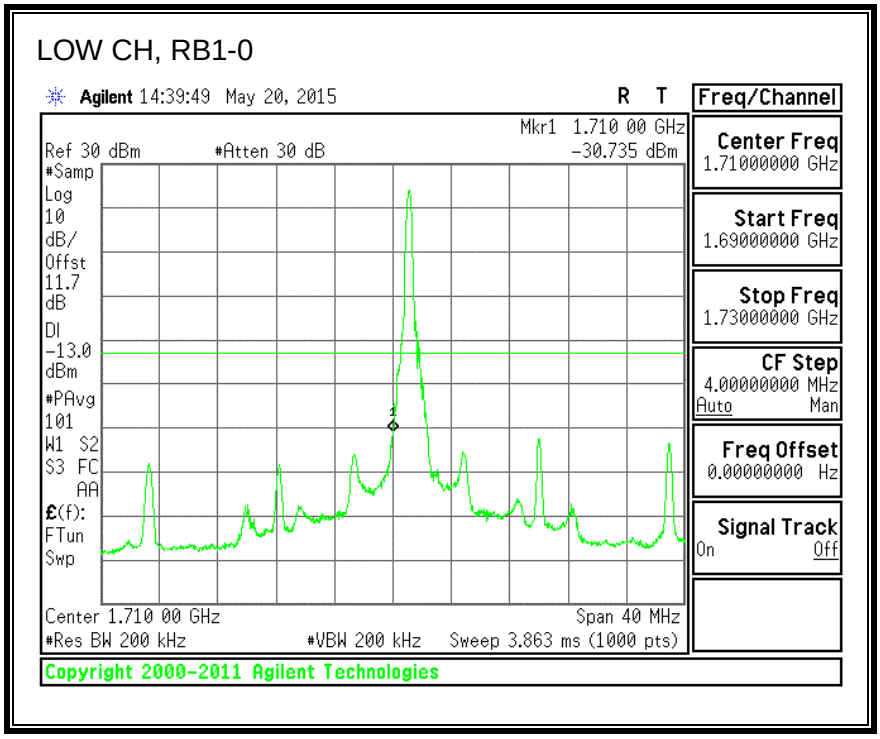
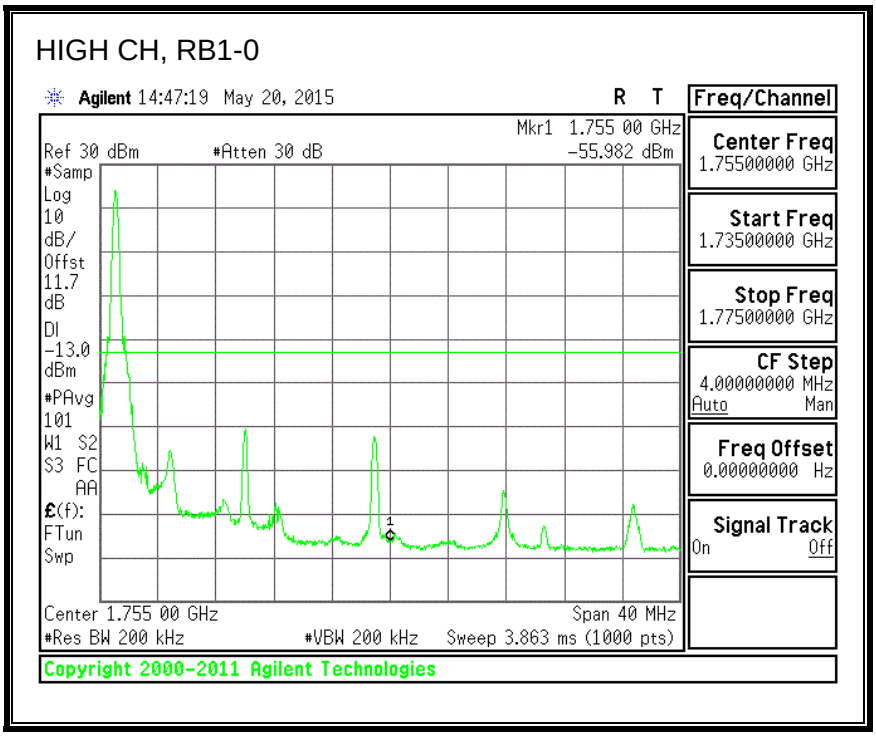
QPSK, (20.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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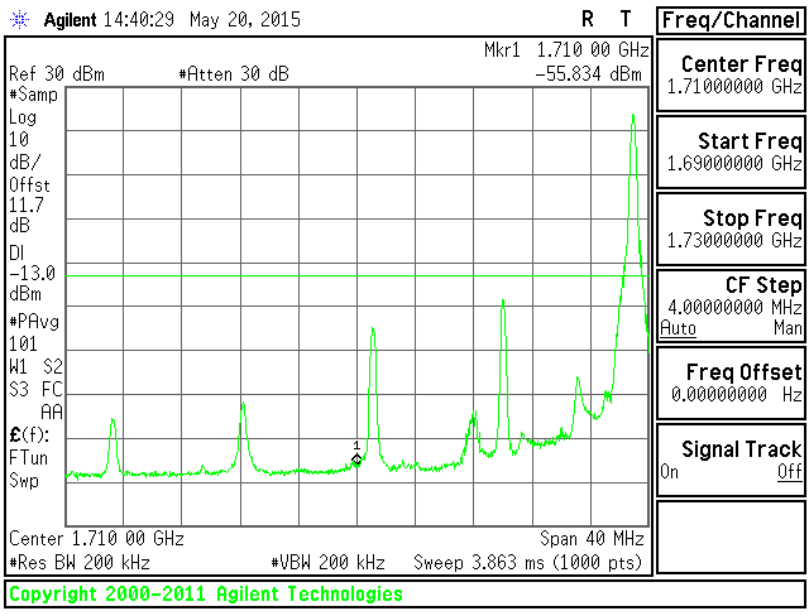
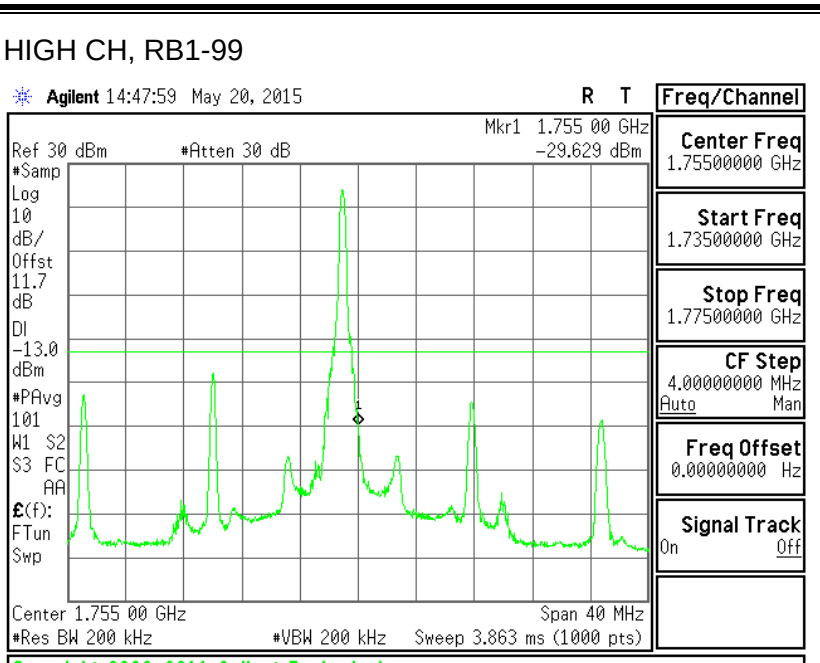
LOW CH, RB1-99



HIGH CH, RB1-99



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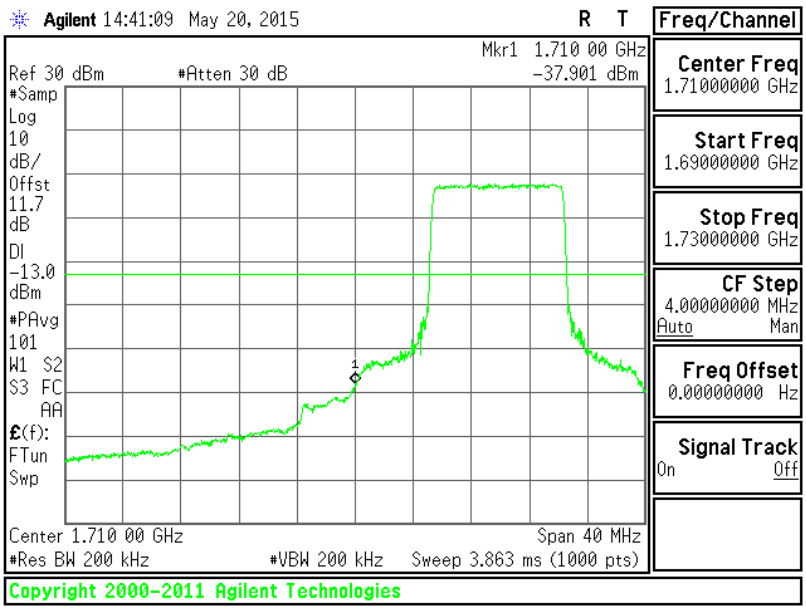
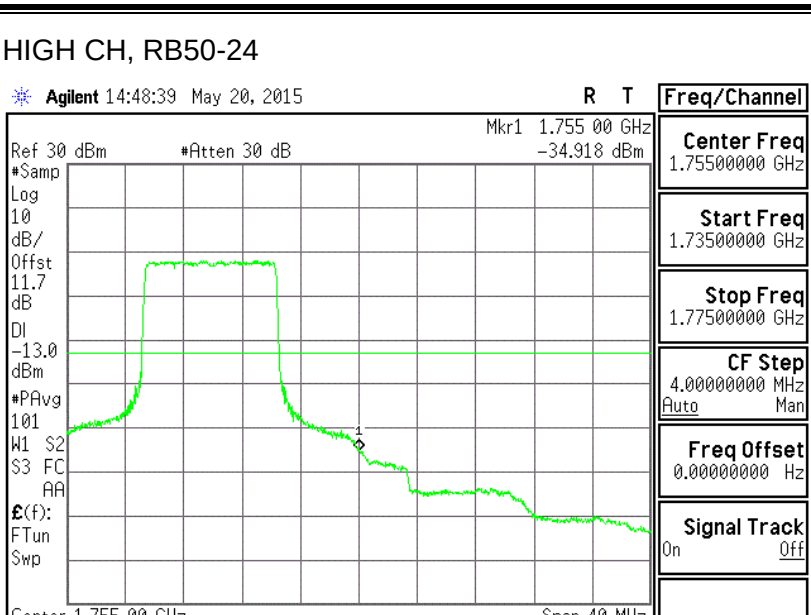
LOW CH, RB50-24



HIGH CH, RB50-24



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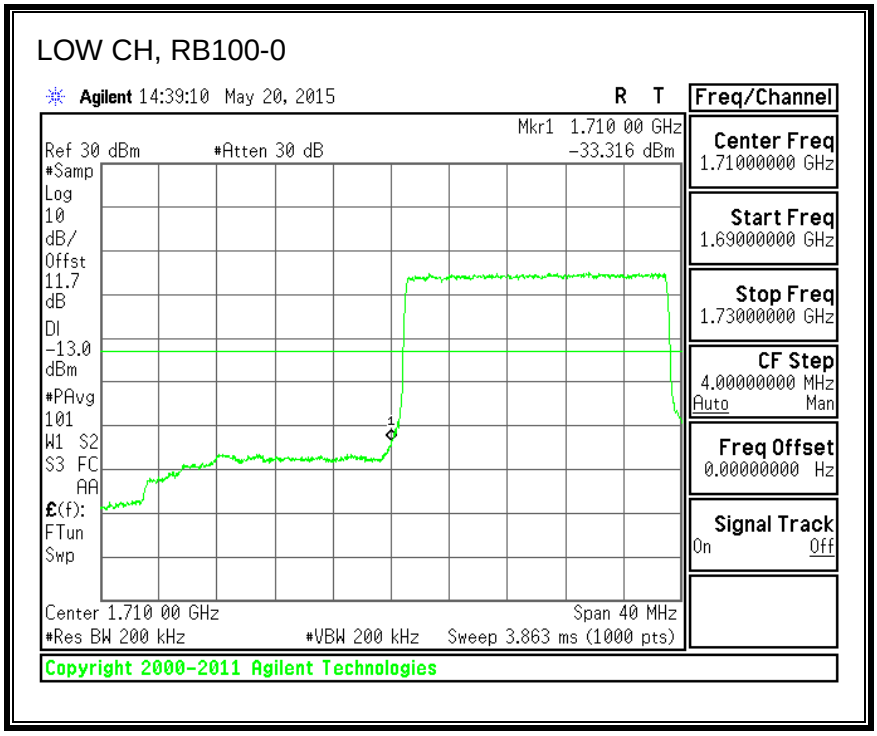
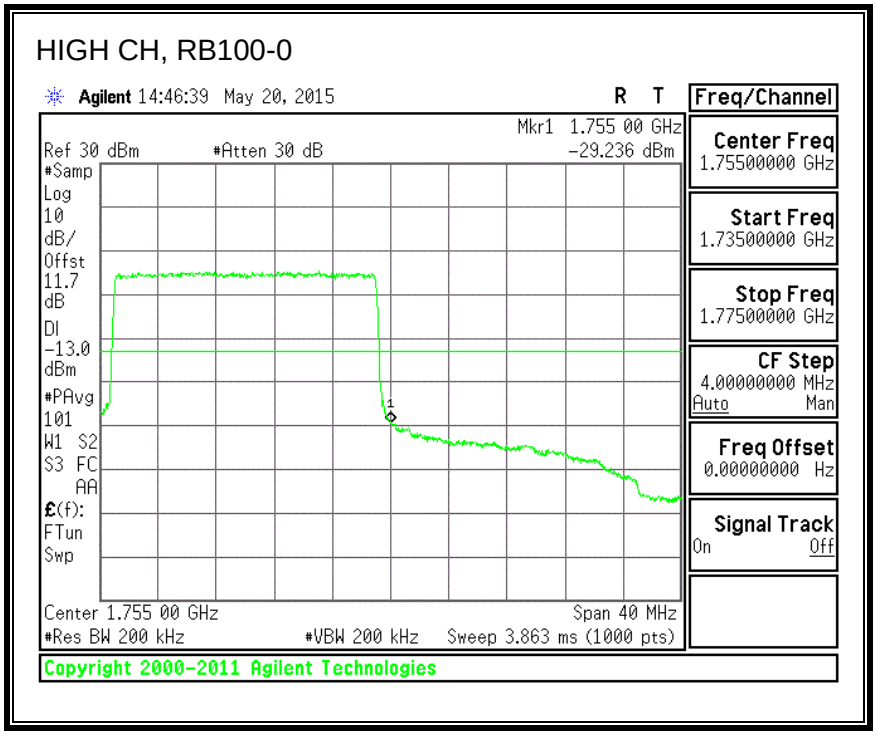
LOW CH, RB100-0



HIGH CH, RB100-0



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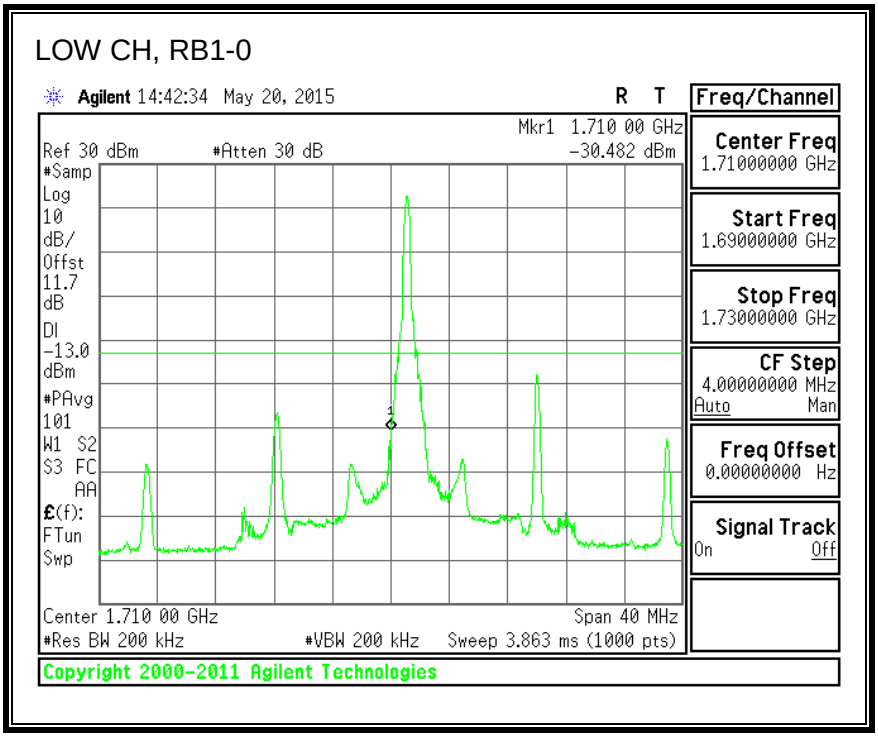
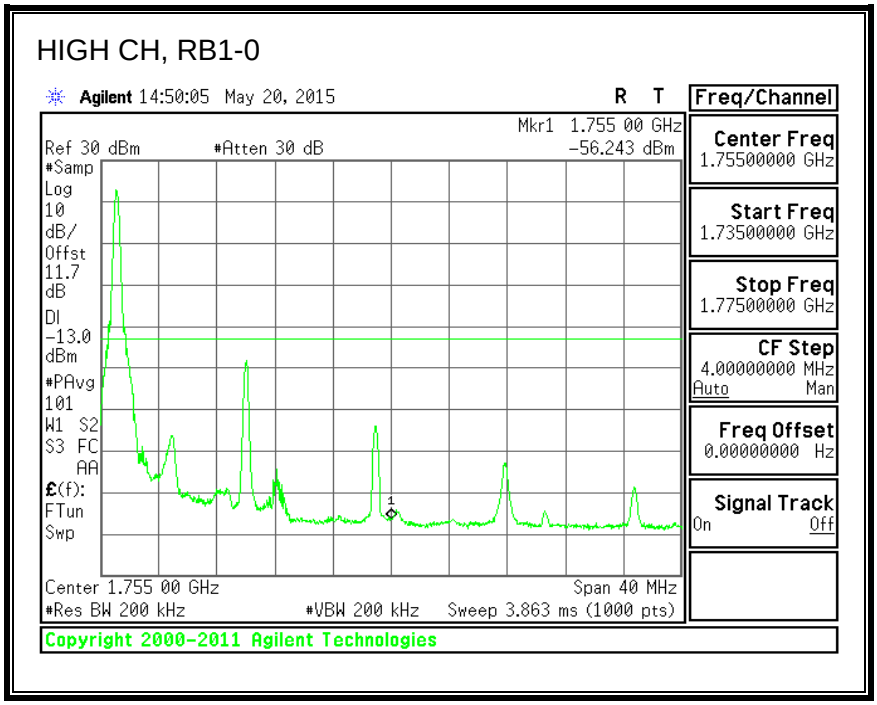
16QAM, (20.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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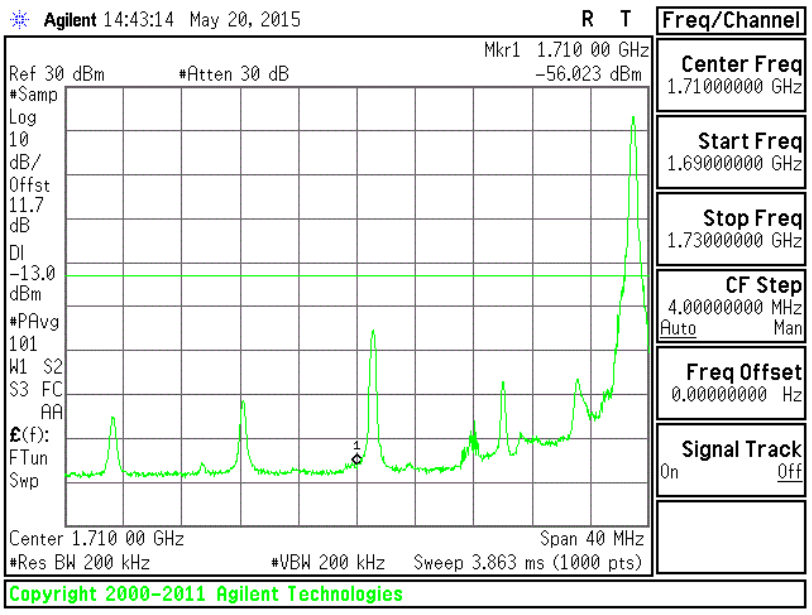
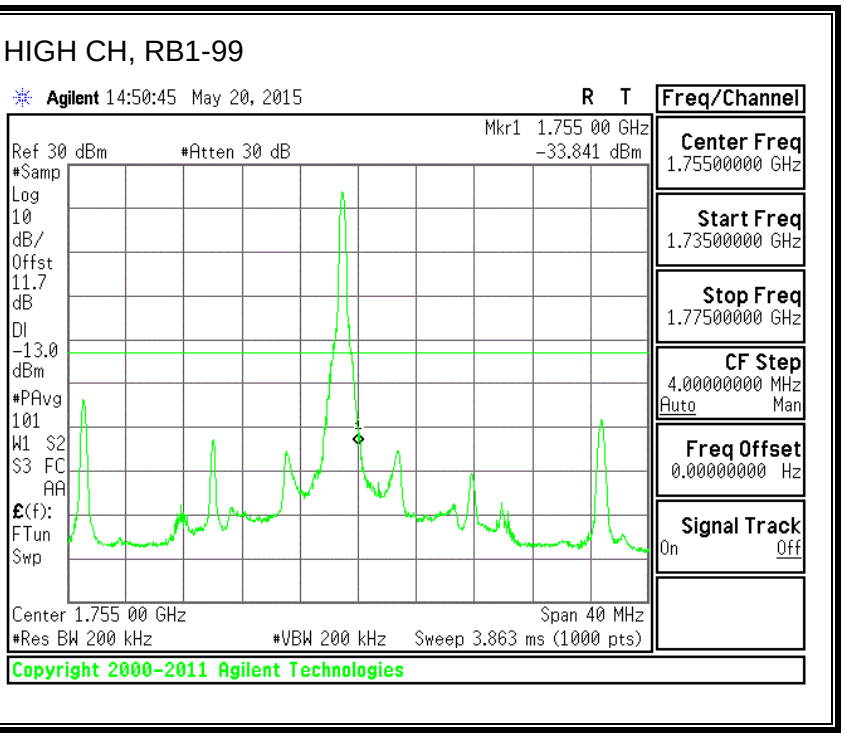
LOW CH, RB1-99



HIGH CH, RB1-99



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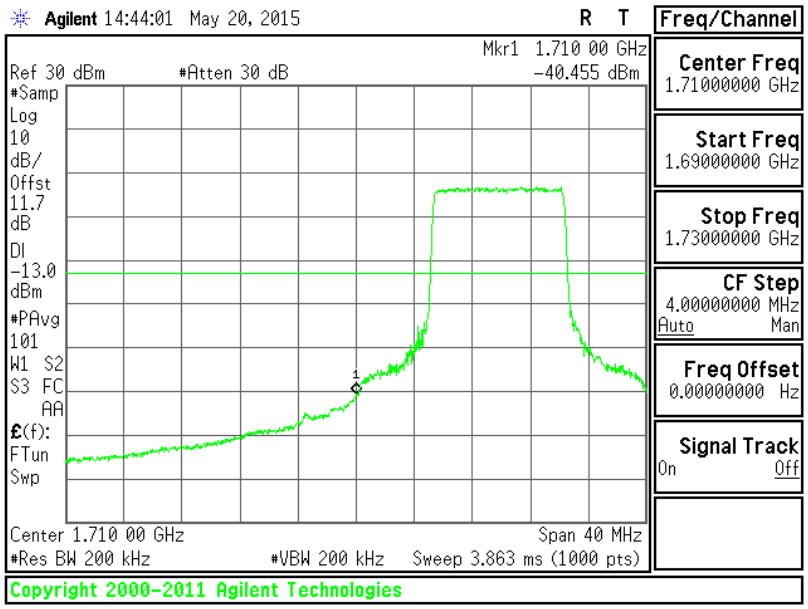
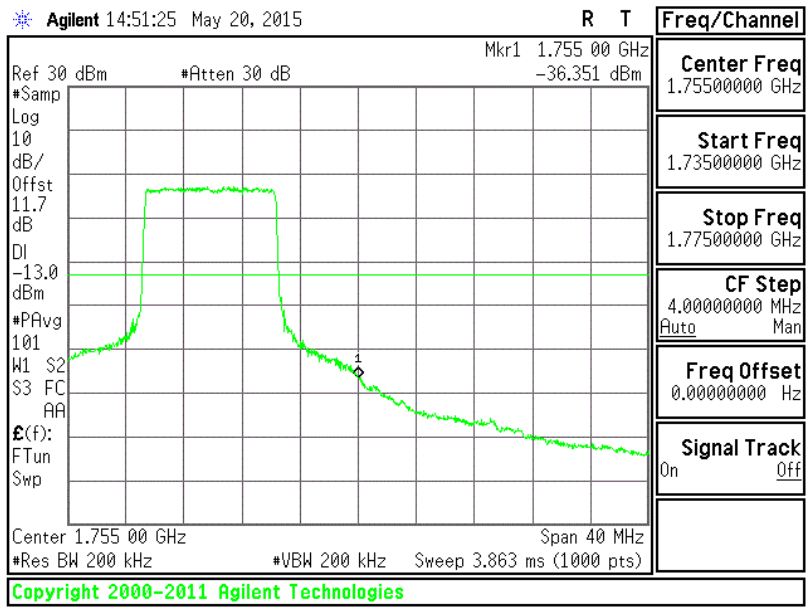
LOW CH, RB50-24

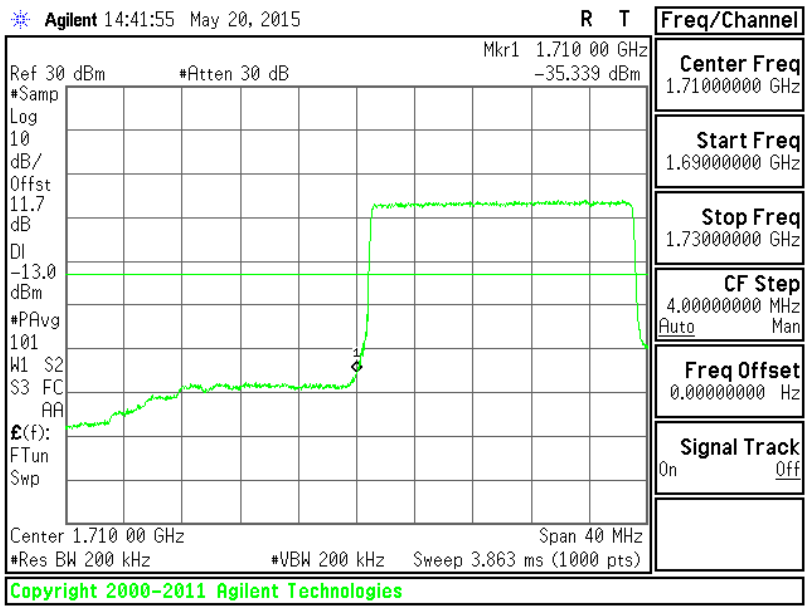


HIGH CH, RB50-24

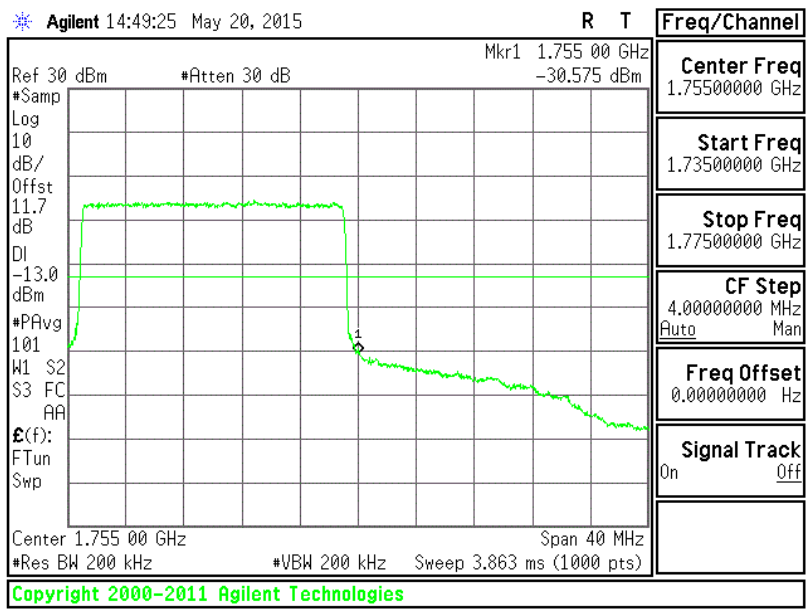


This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

LOW CH, RB100-0



HIGH CH, RB100-0



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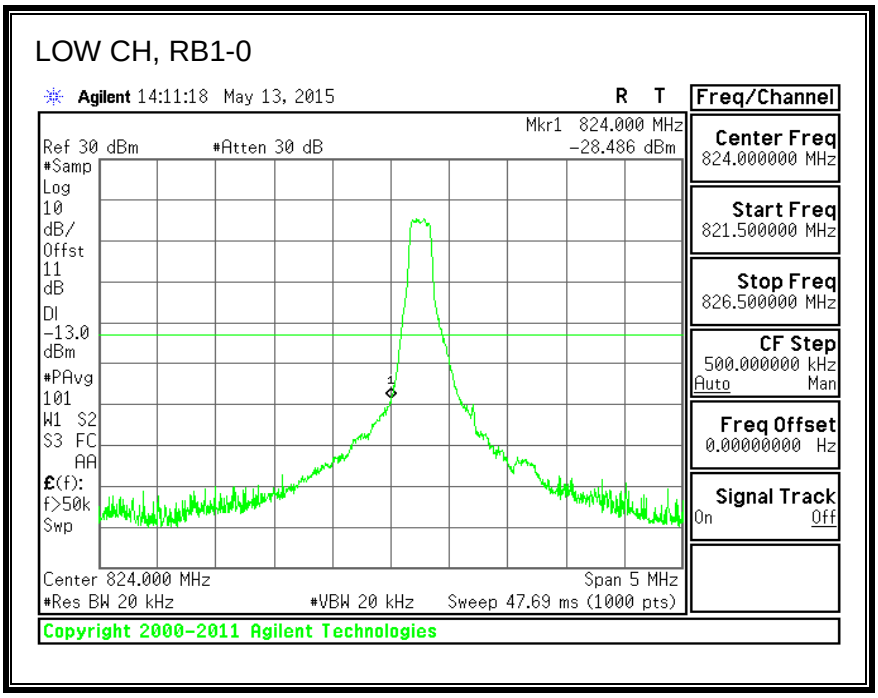
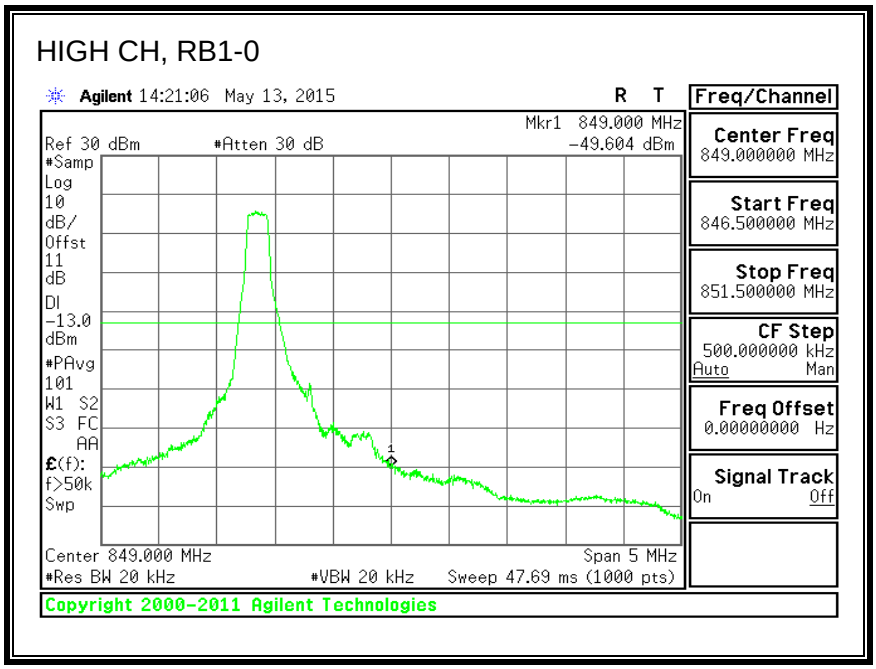
8.4.3. LTE BAND 5 BANDEDGE

QPSK, (1.4 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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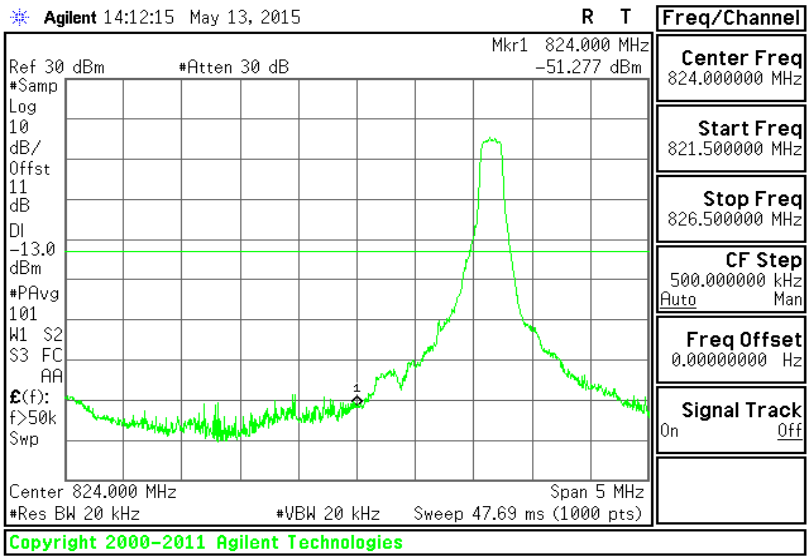
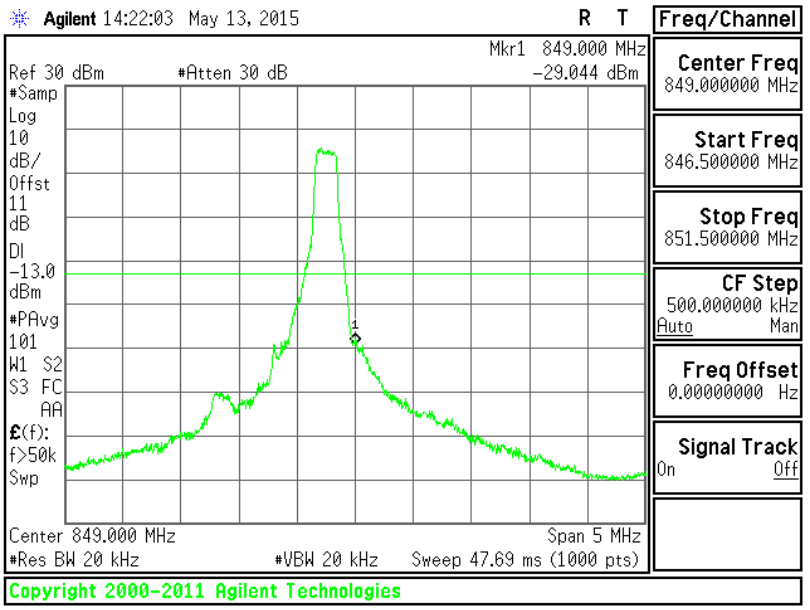
LOW CH, RB1-5



HIGH CH, RB1-5



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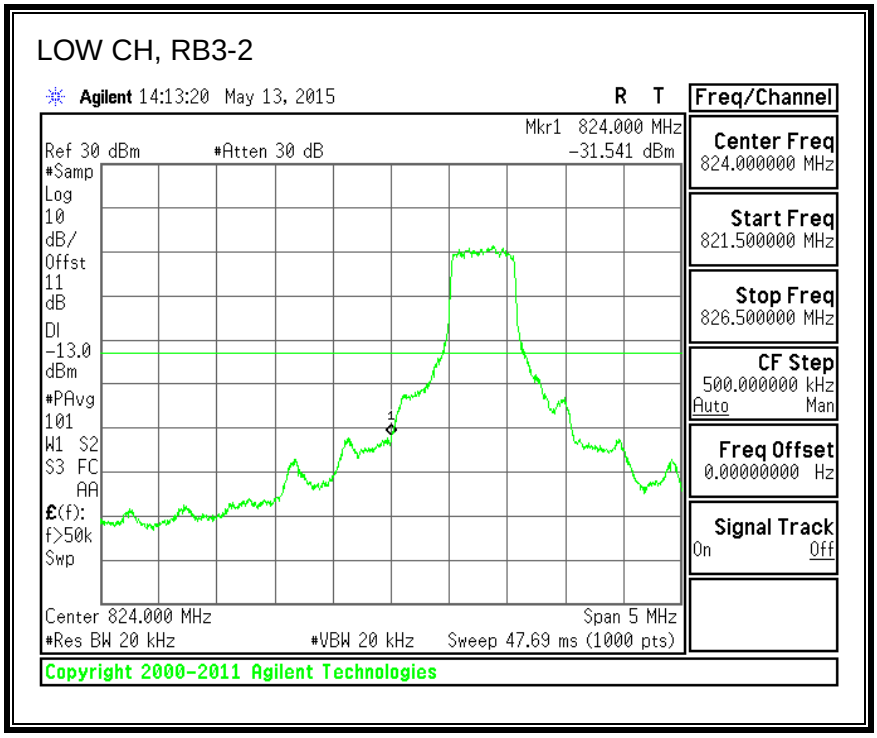
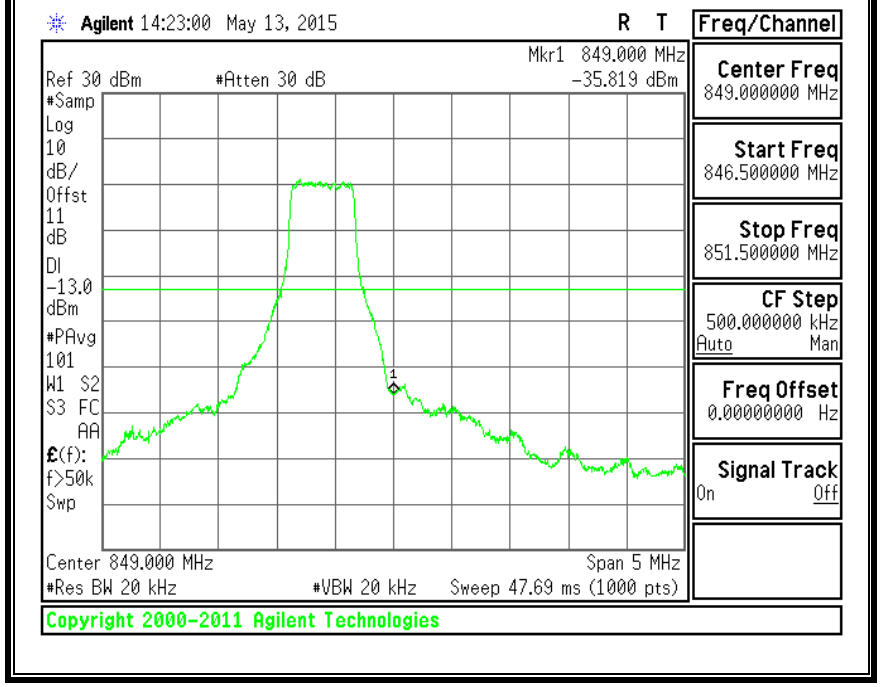
LOW CH, RB3-2



HIGH CH, RB3-2



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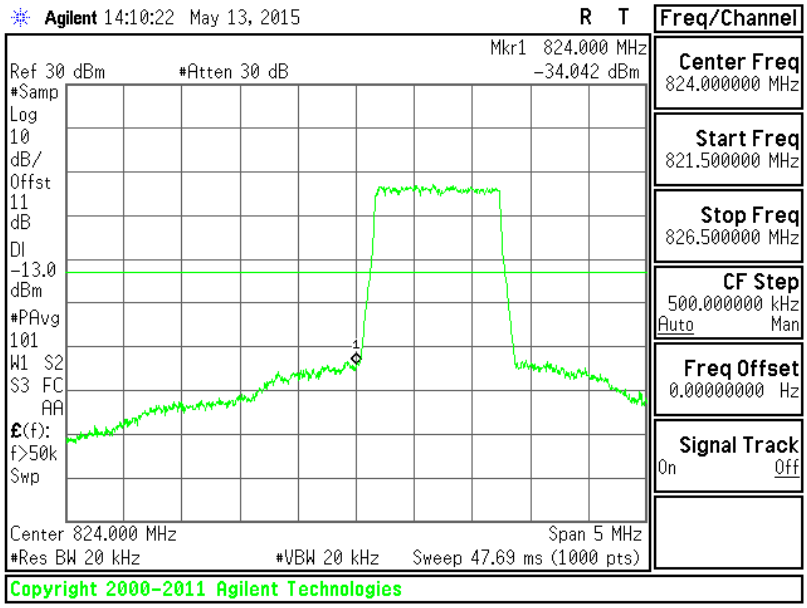
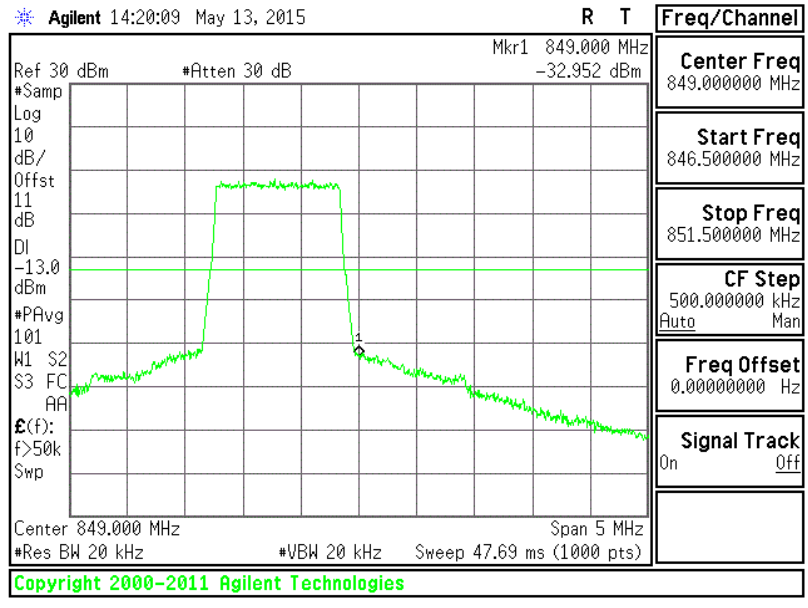
LOW CH, RB6-0



HIGH CH, RB6-0



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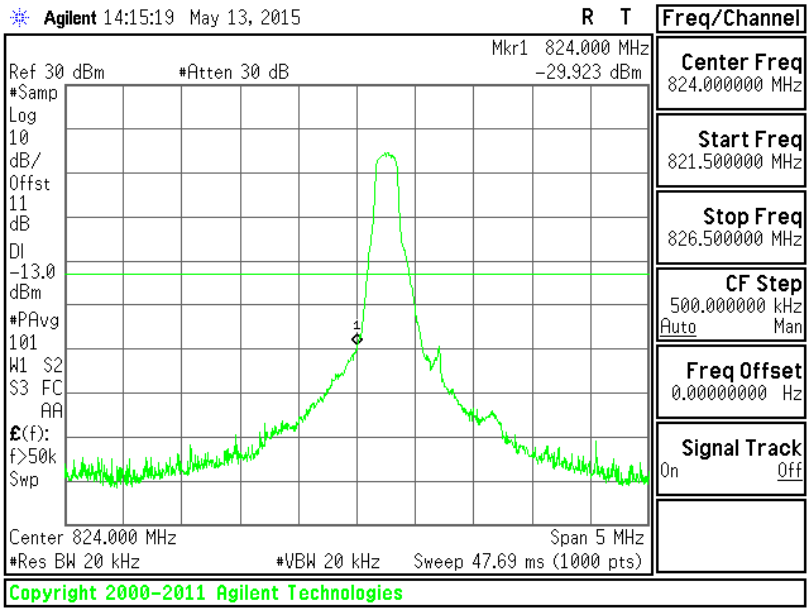
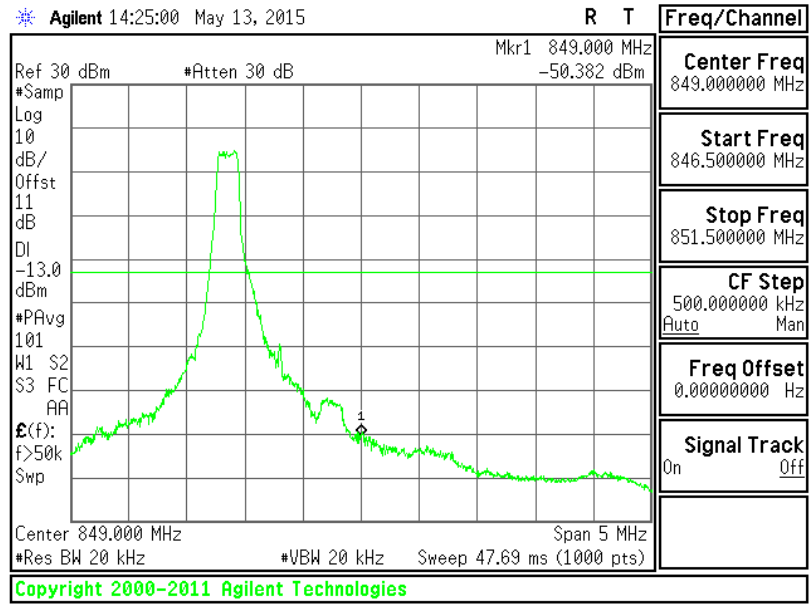
16QAM, (1.4 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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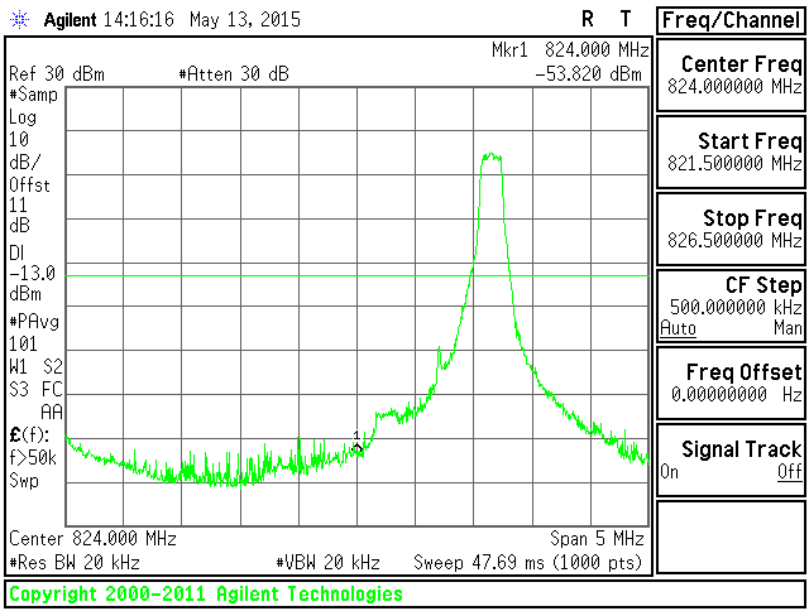
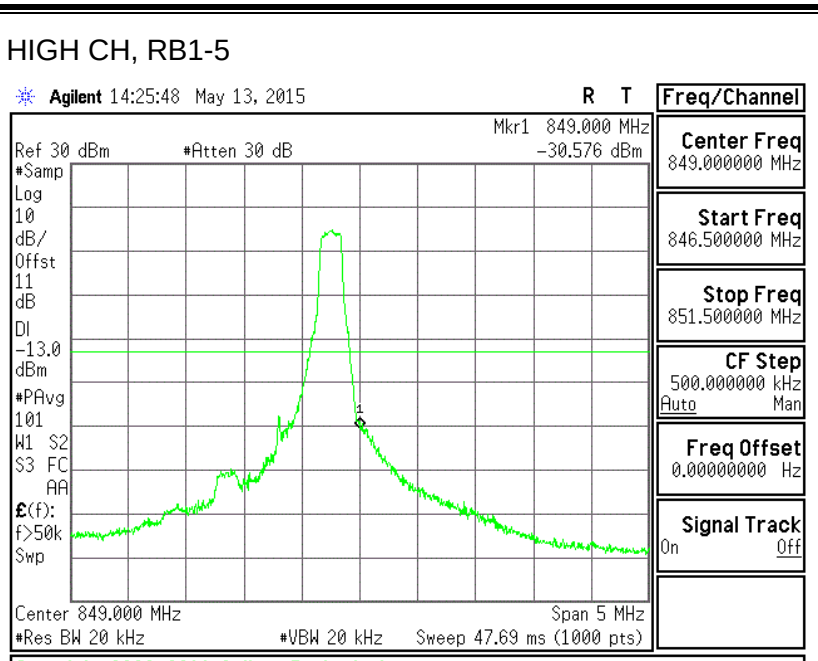
LOW CH, RB1-5



HIGH CH, RB1-5



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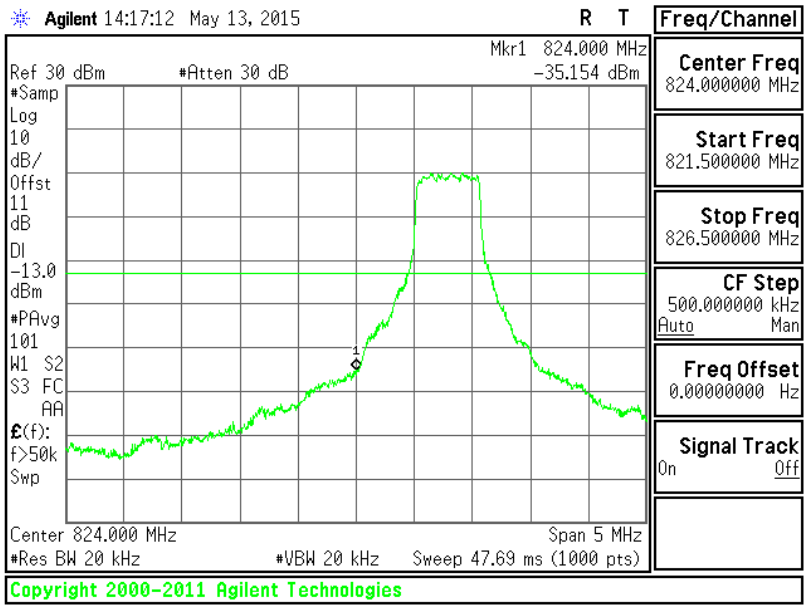
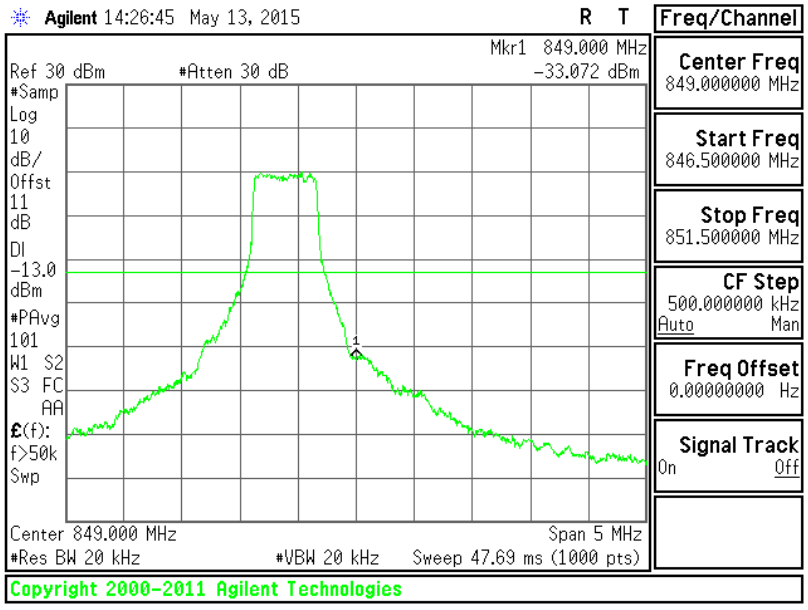
LOW CH, RB3-2



HIGH CH, RB3-2



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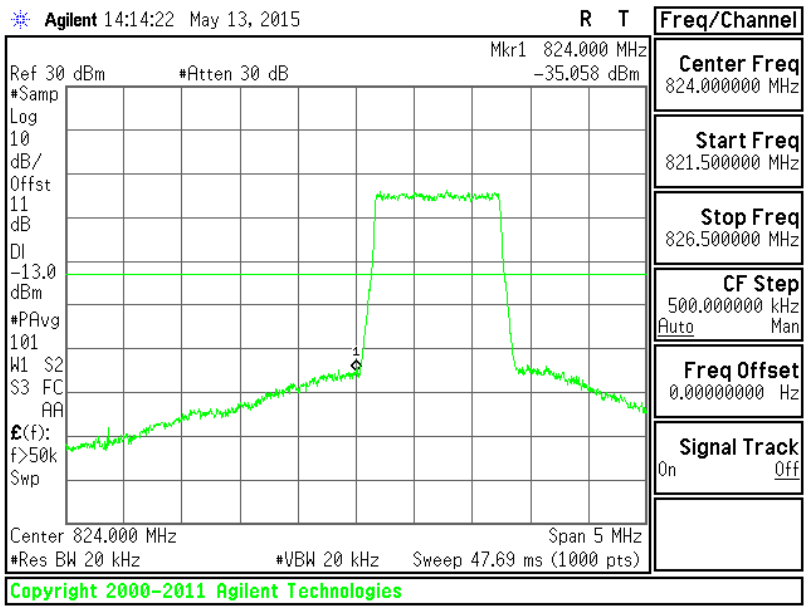
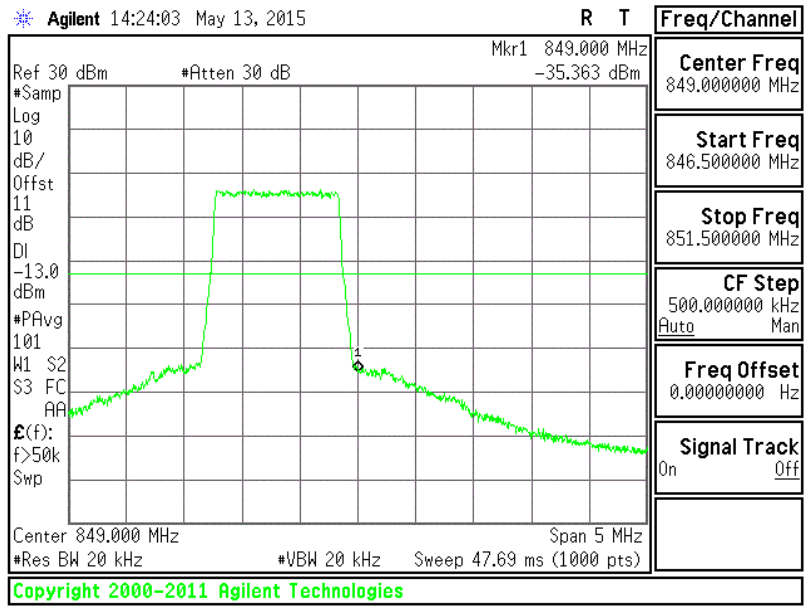
LOW CH, RB6-0



HIGH CH, RB6-0



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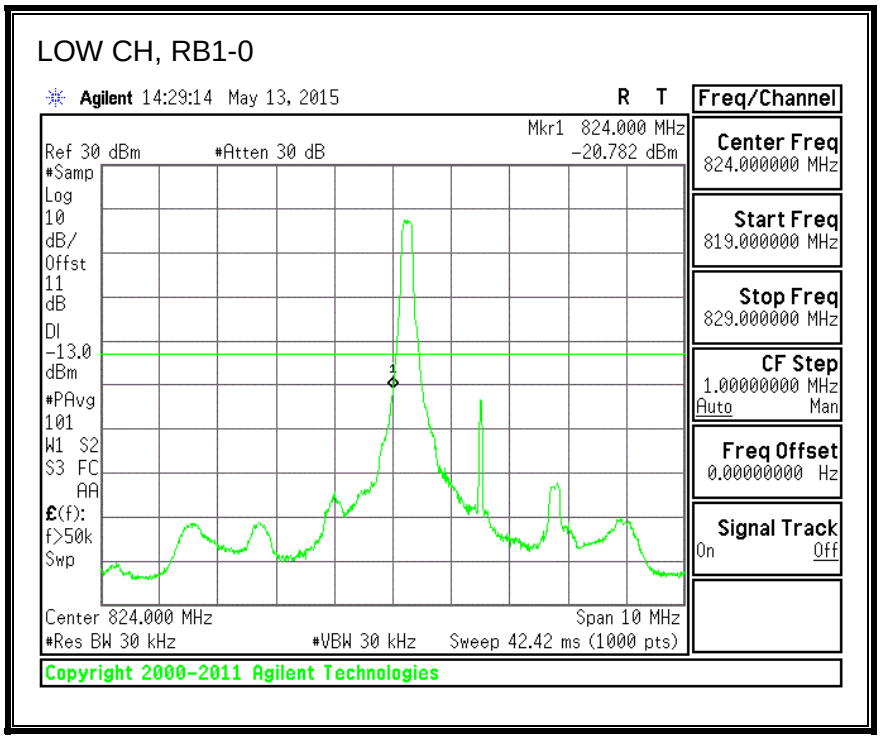
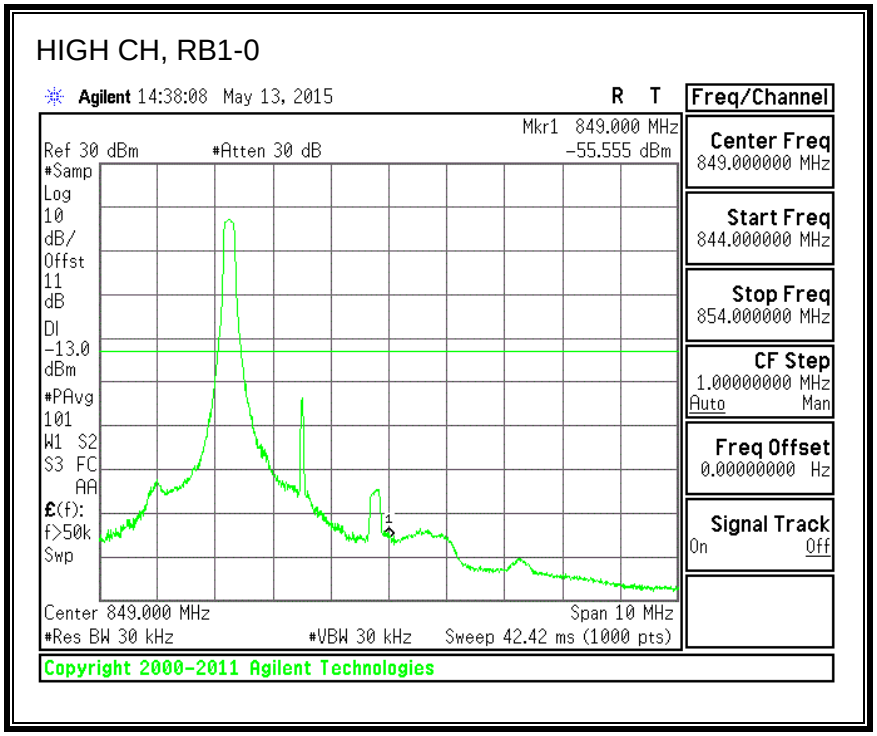
QPSK, (3.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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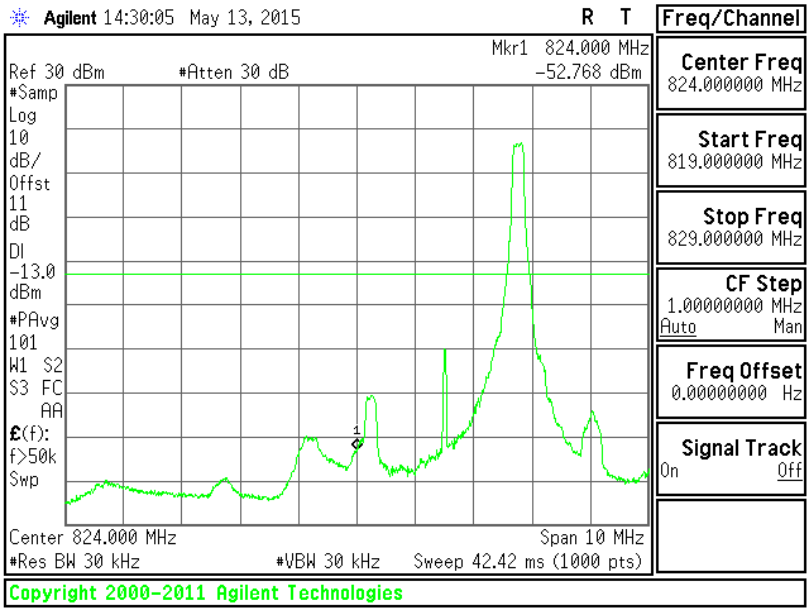
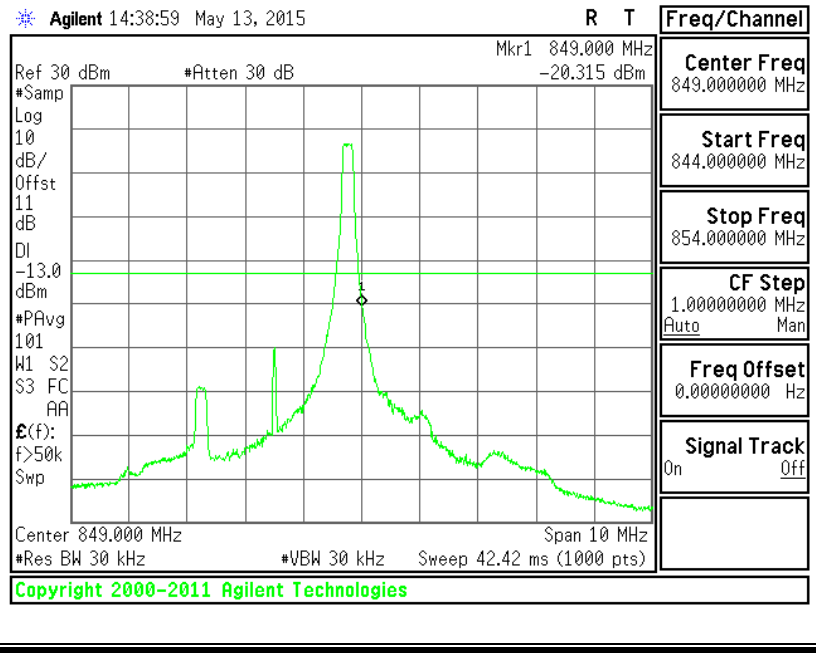
LOW CH, RB1-14



HIGH CH, RB1-14



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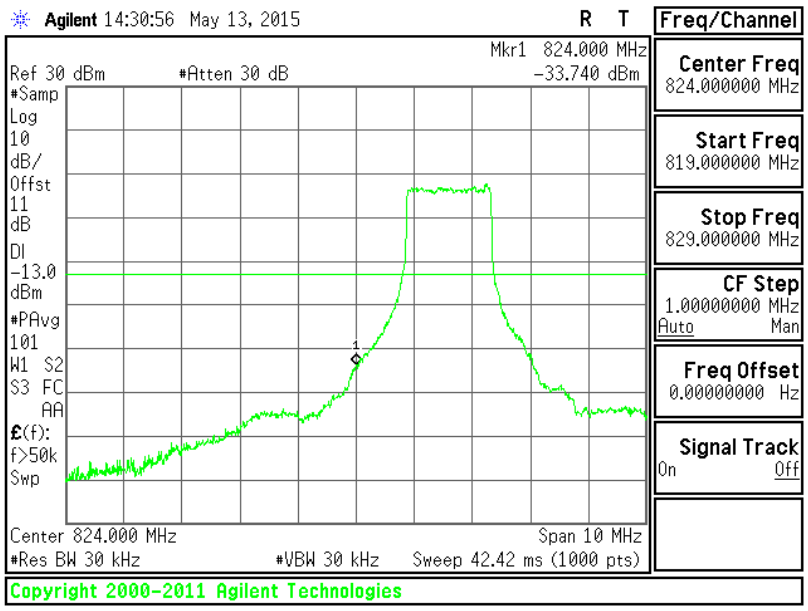
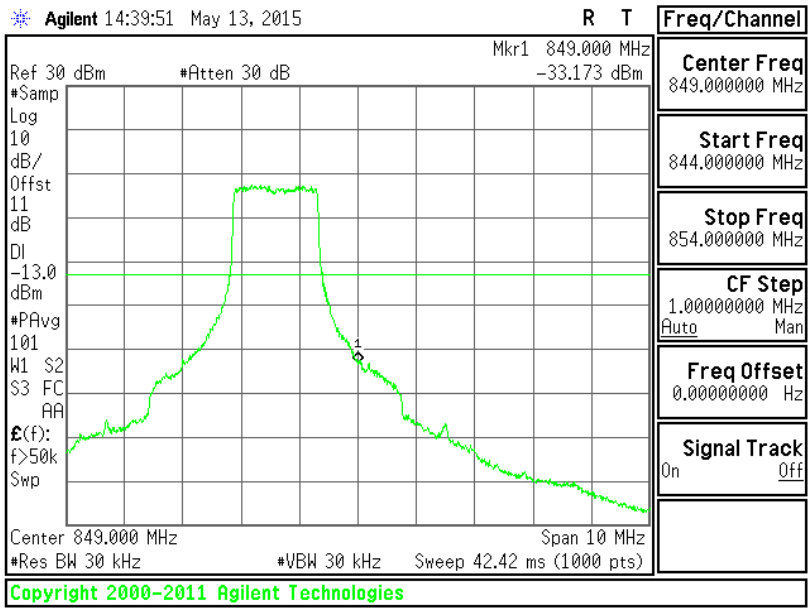
LOW CH, RB8-4



HIGH CH, RB8-4



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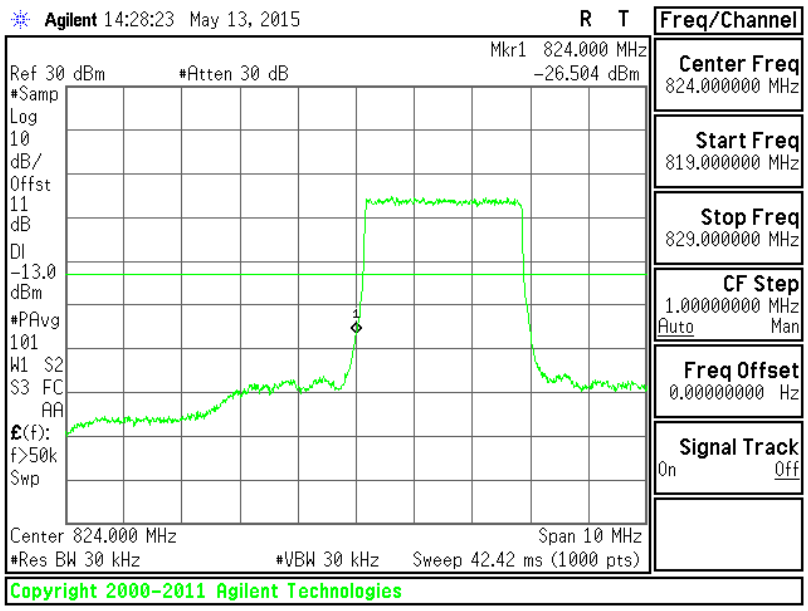
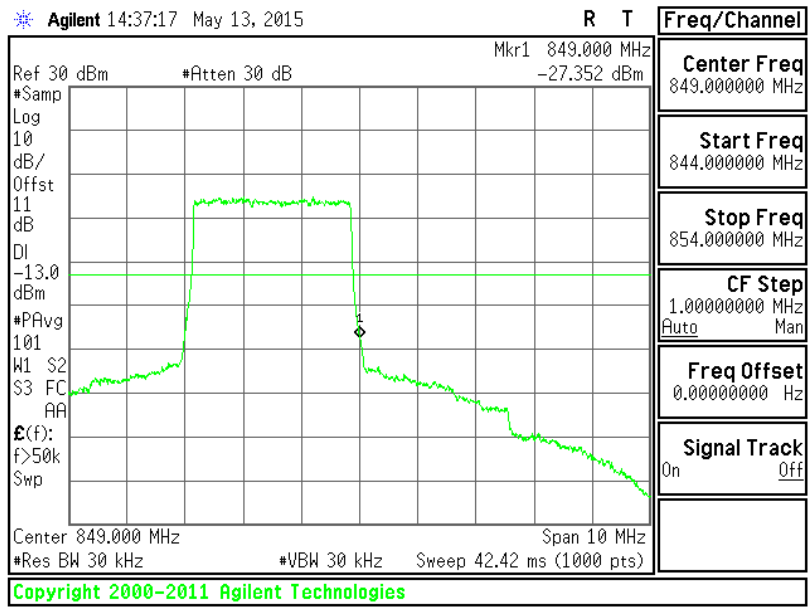
LOW CH, RB15-0



HIGH CH, RB15-0



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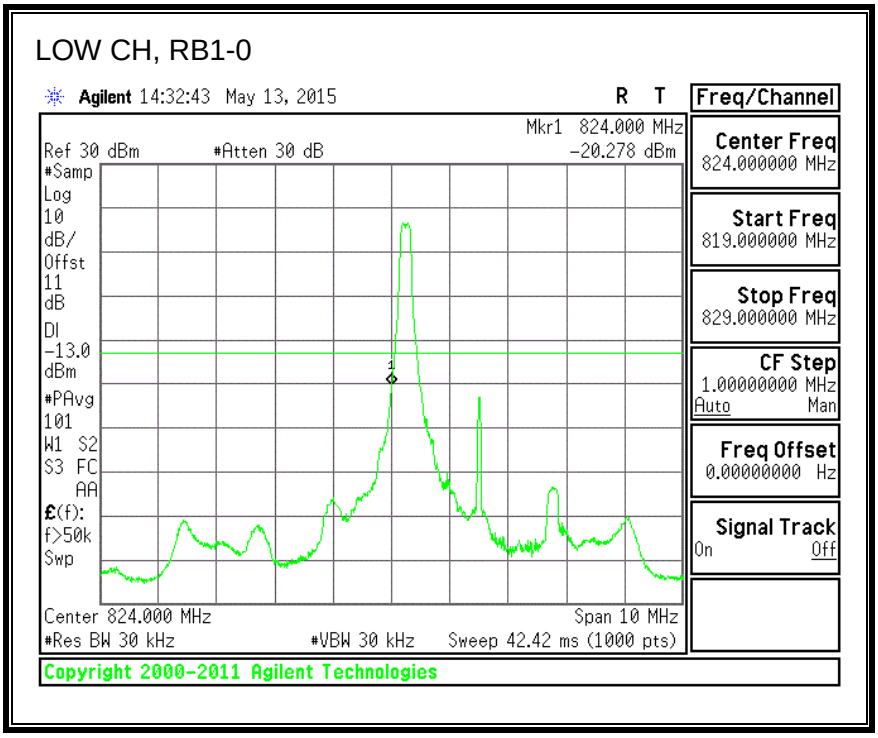
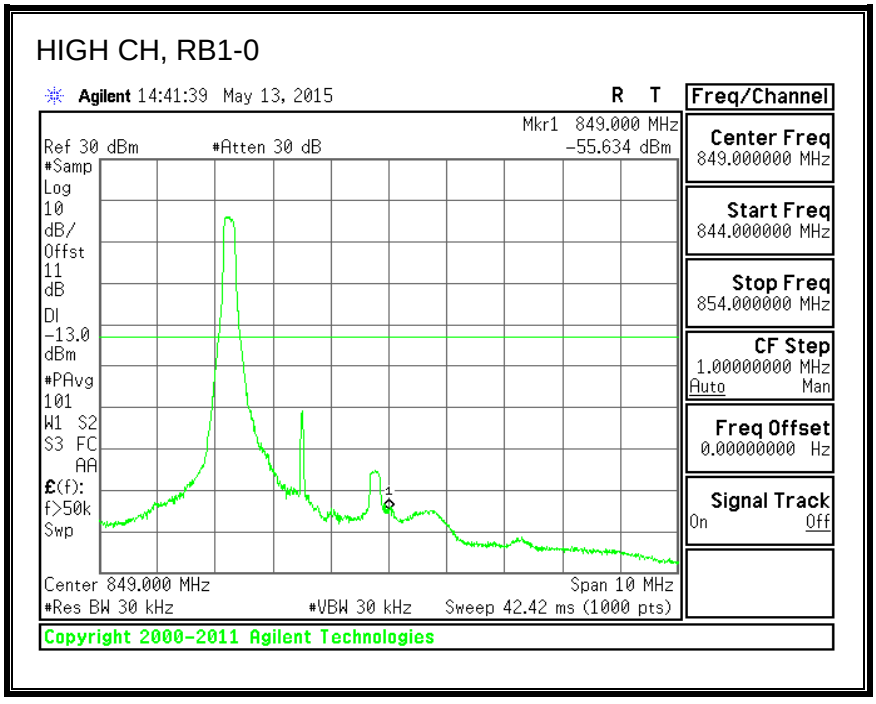
16QAM, (3.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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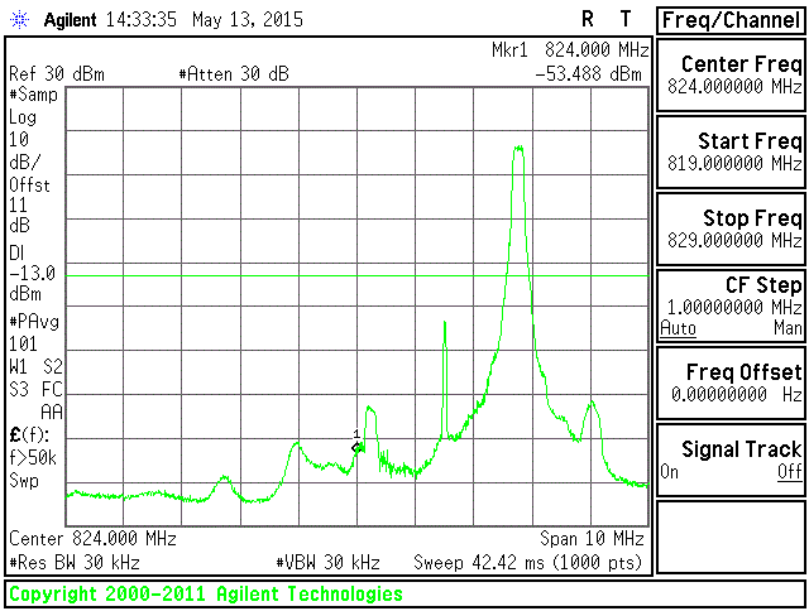
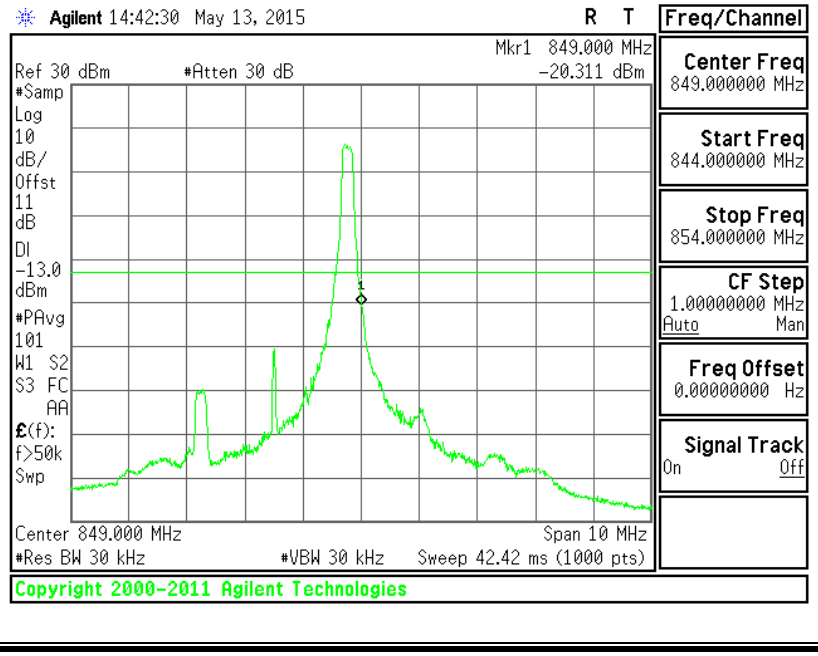
LOW CH, RB1-14



HIGH CH, RB1-14



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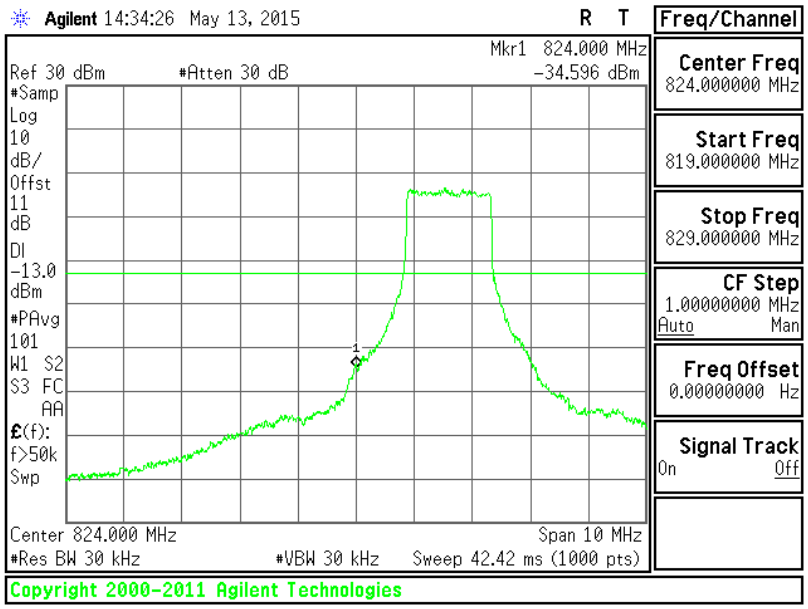
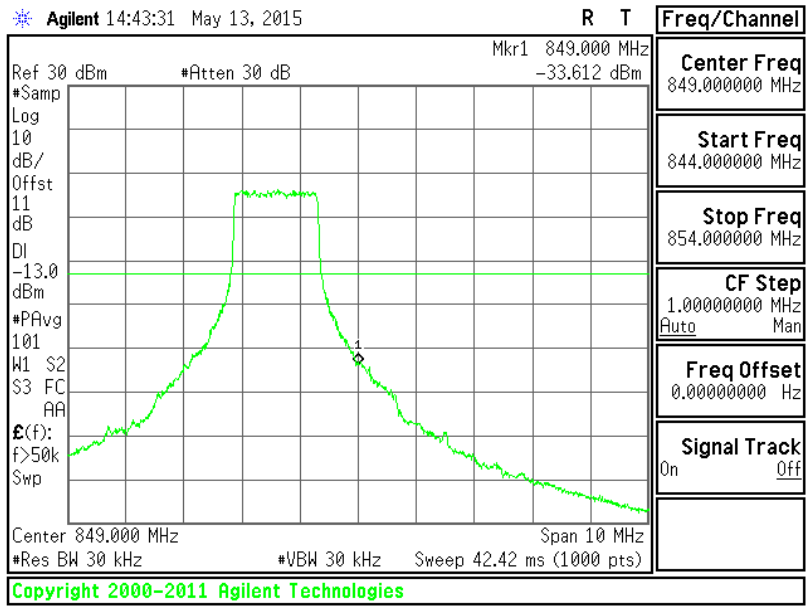
LOW CH, RB8-4



HIGH CH, RB8-4



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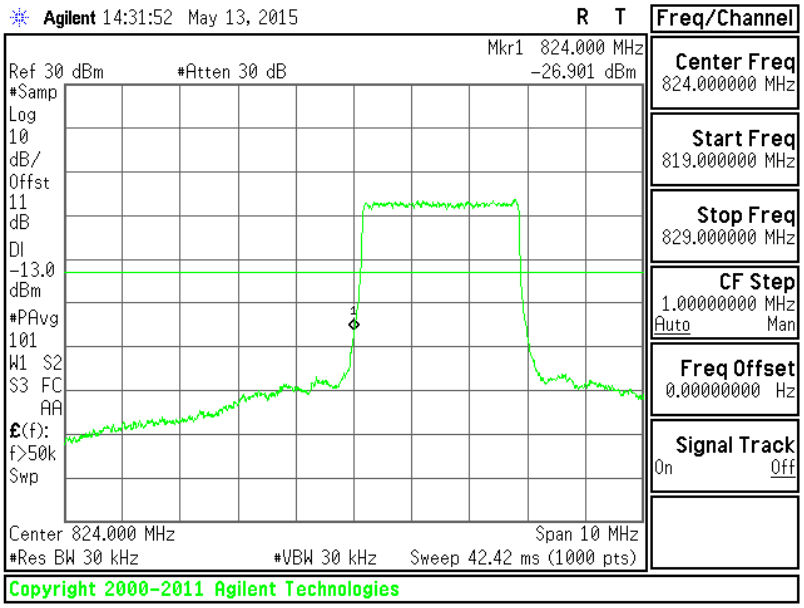
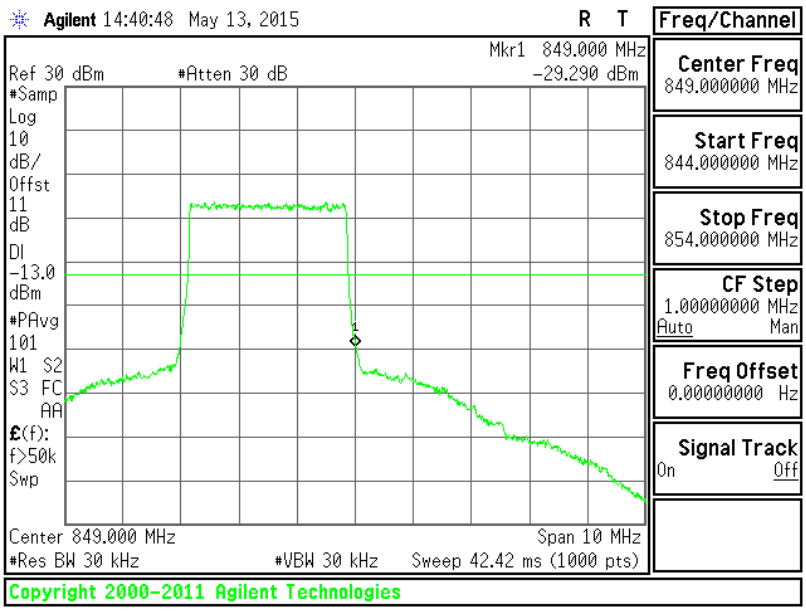
LOW CH, RB15-0



HIGH CH, RB15-0



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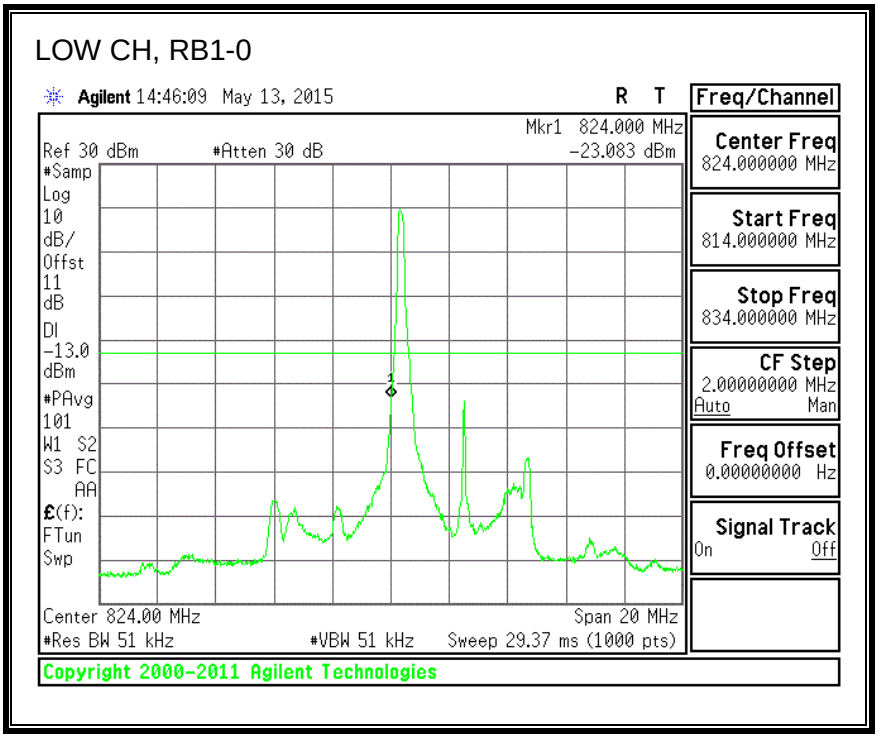
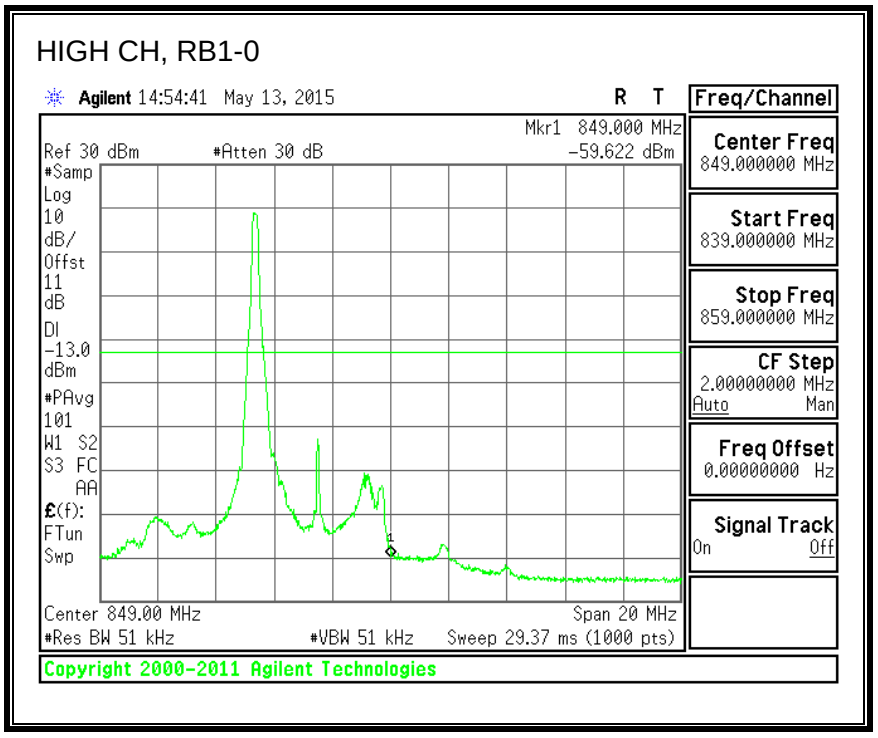
QPSK, (5.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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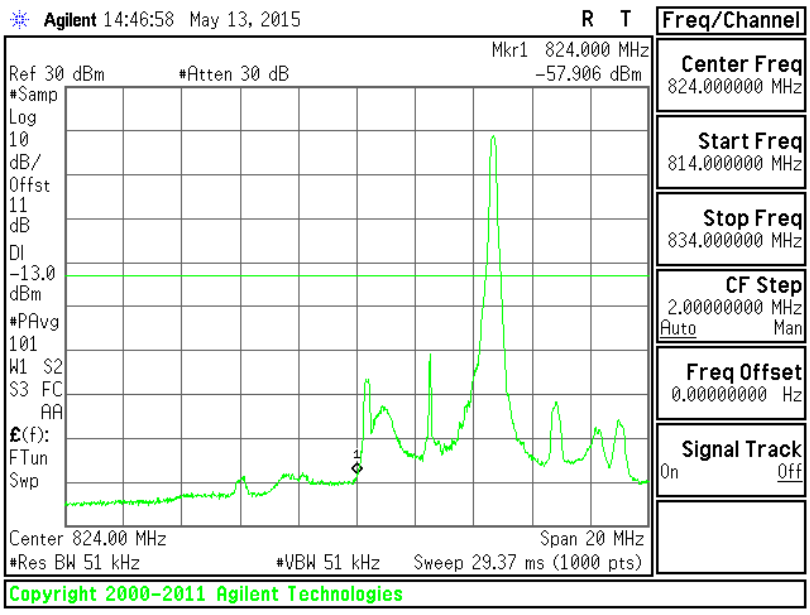
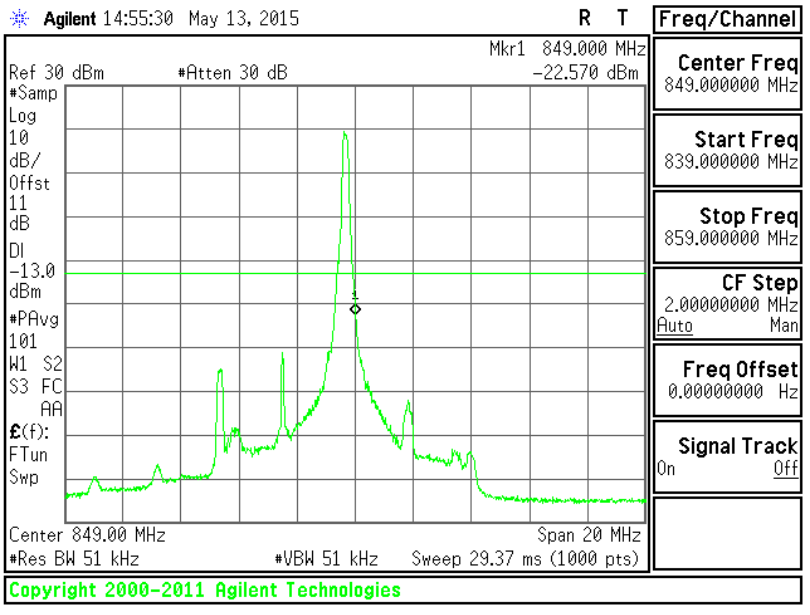
LOW CH, RB1-24



HIGH CH, RB1-24



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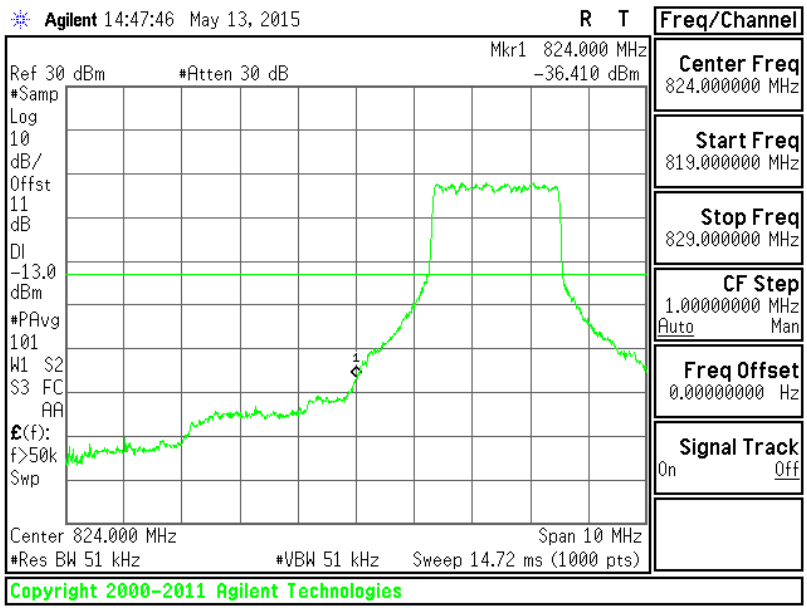
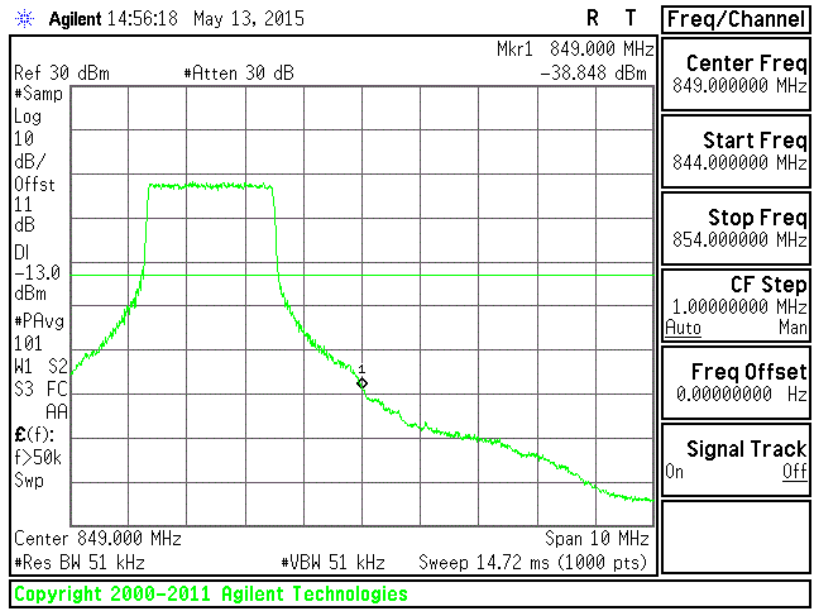
LOW CH, RB12-6



HIGH CH, RB12-6



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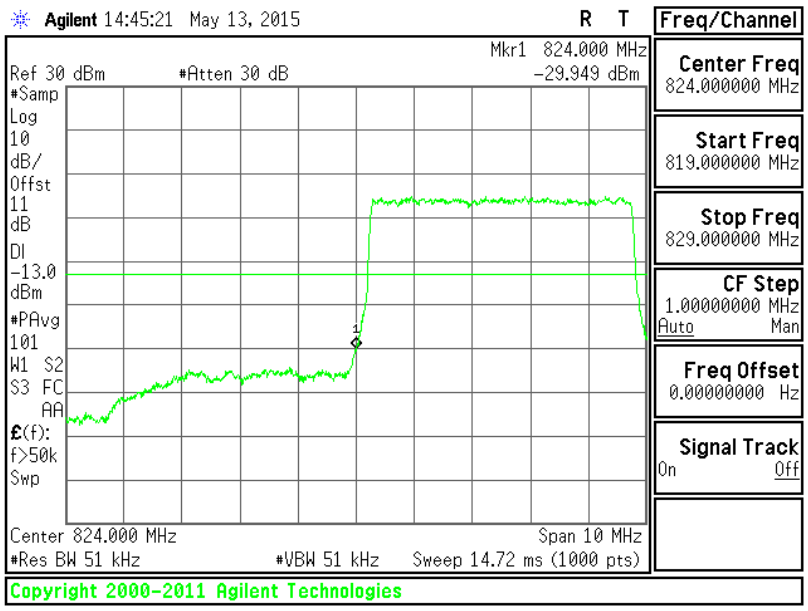
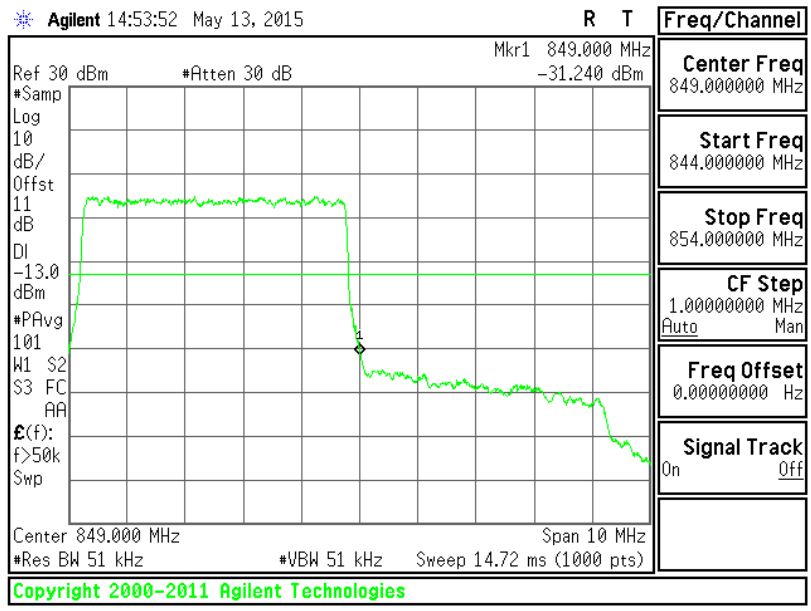
LOW CH, RB25-0



HIGH CH, RB25-0



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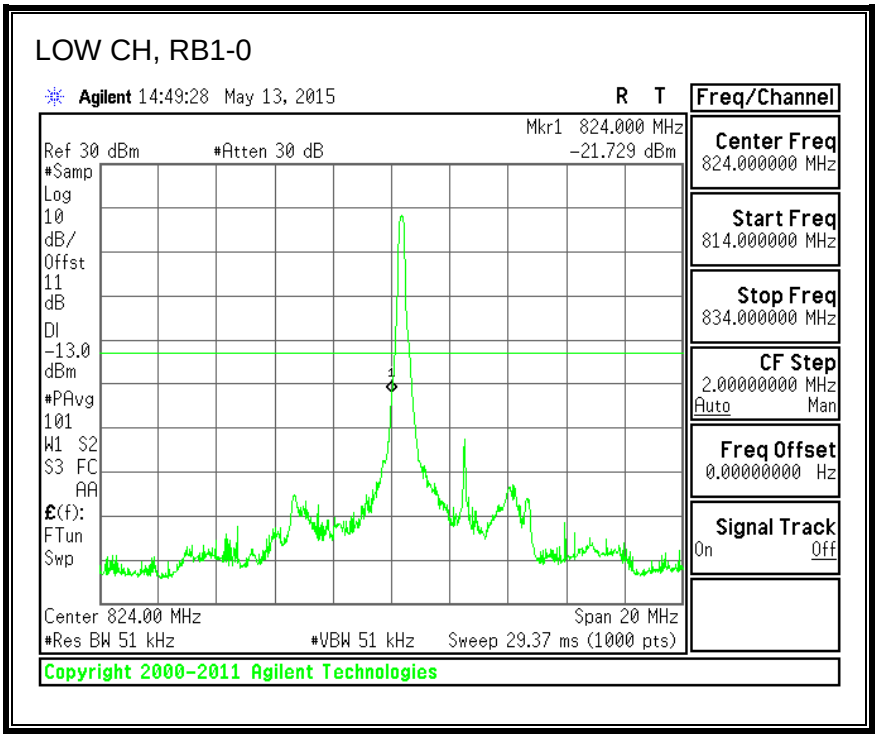
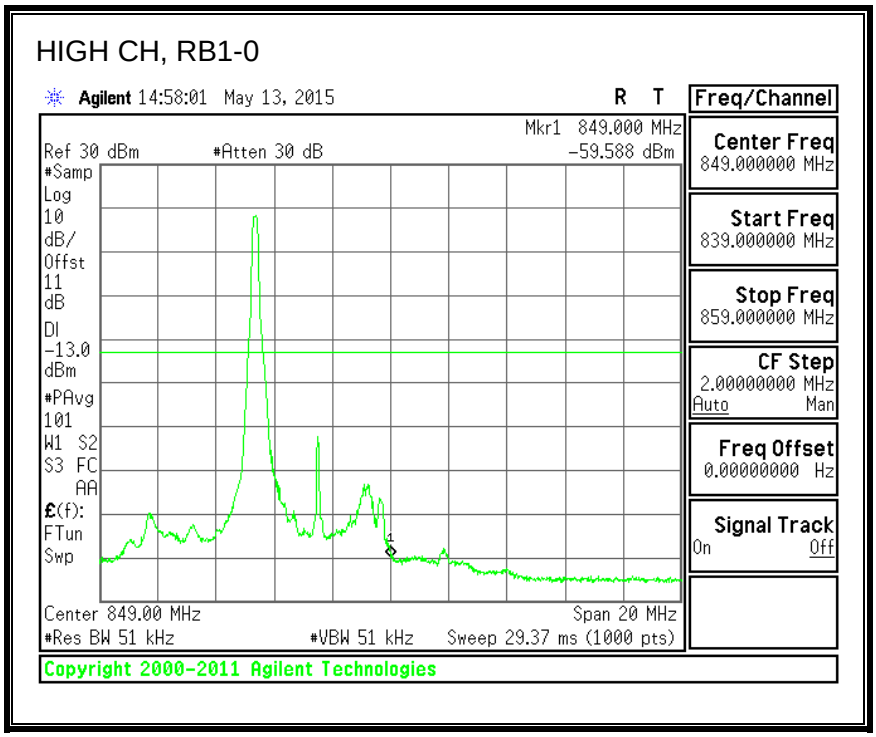
16QAM, (5.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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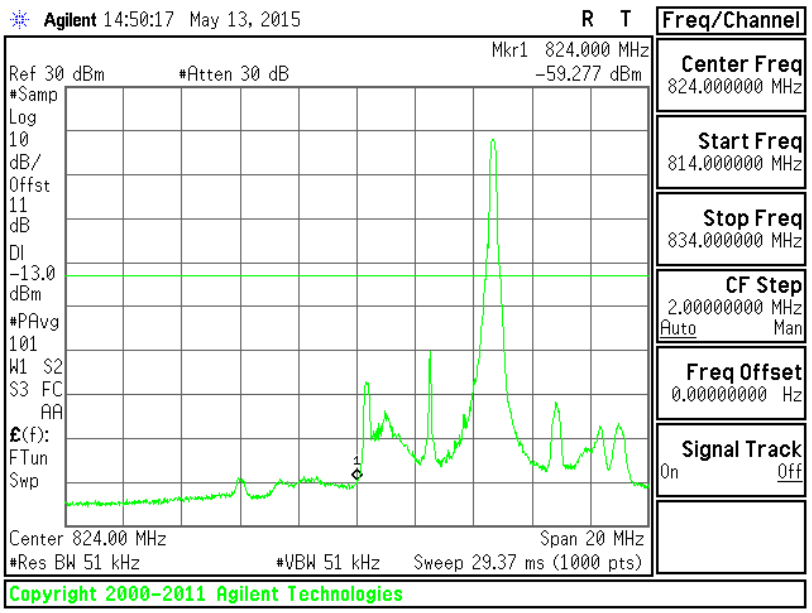
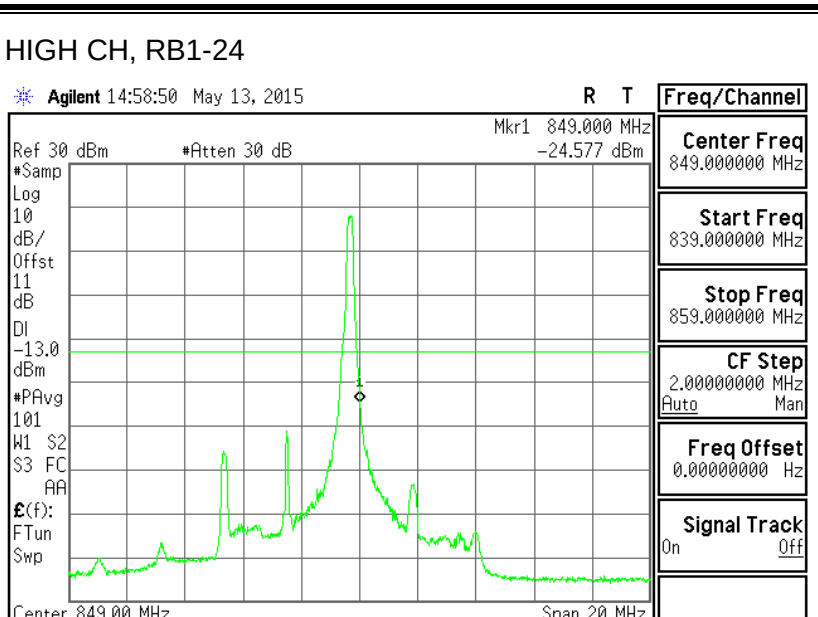
LOW CH, RB1-24



HIGH CH, RB1-24



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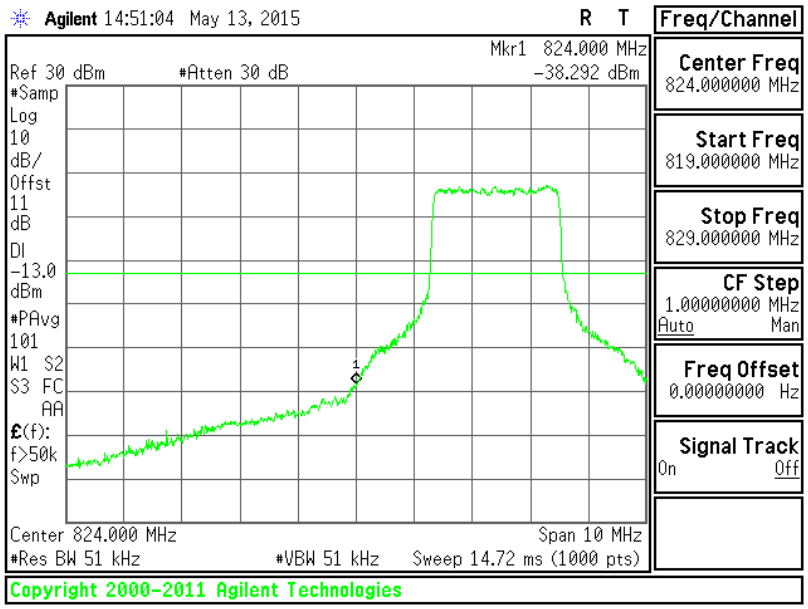
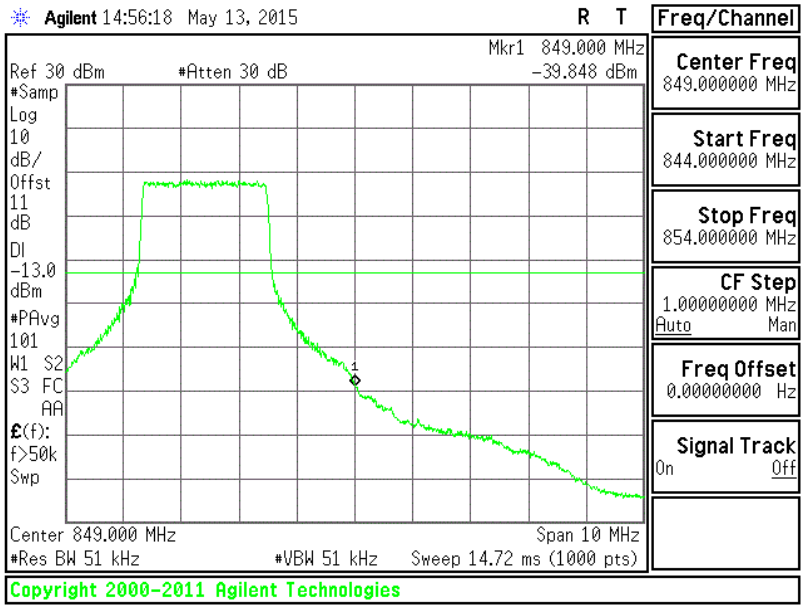
LOW CH, RB12-6



HIGH CH, RB12-6



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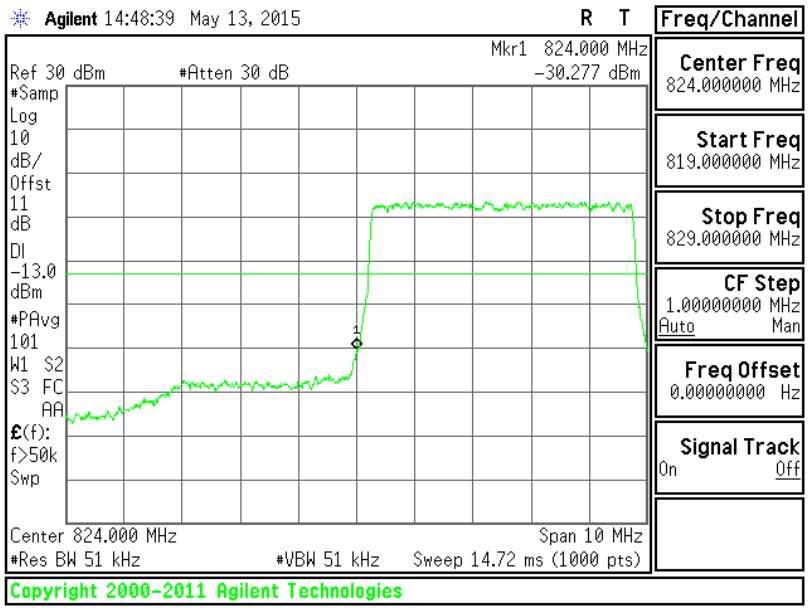
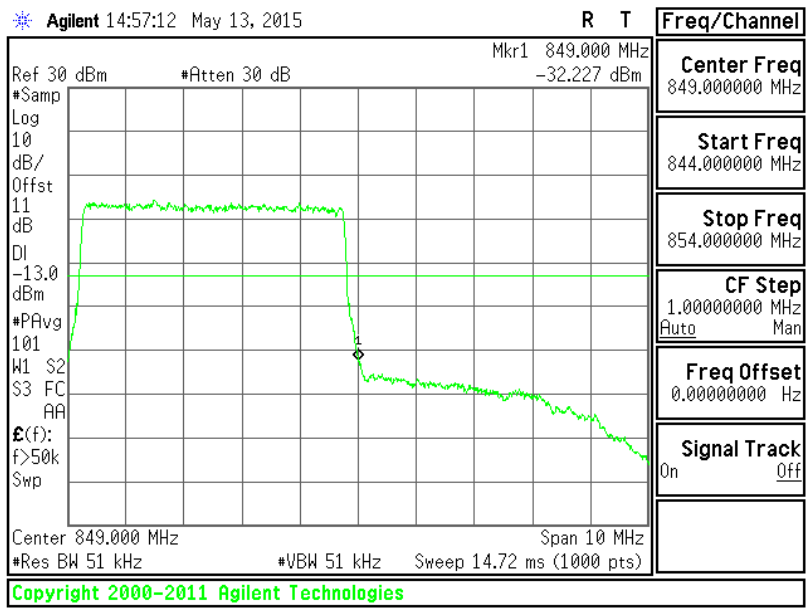
LOW CH, RB25-0



HIGH CH, RB25-0



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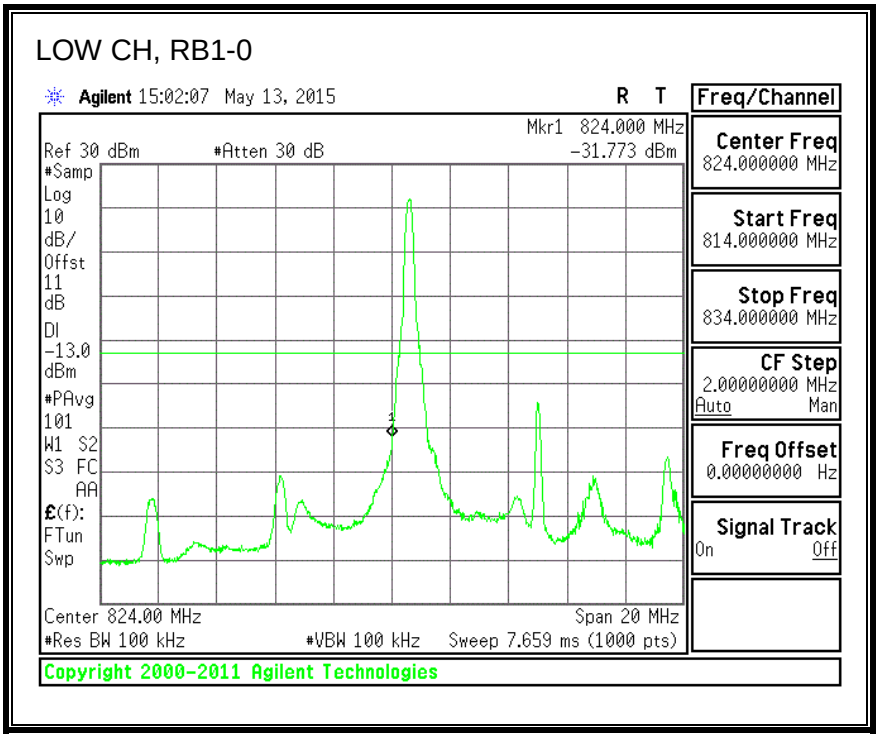
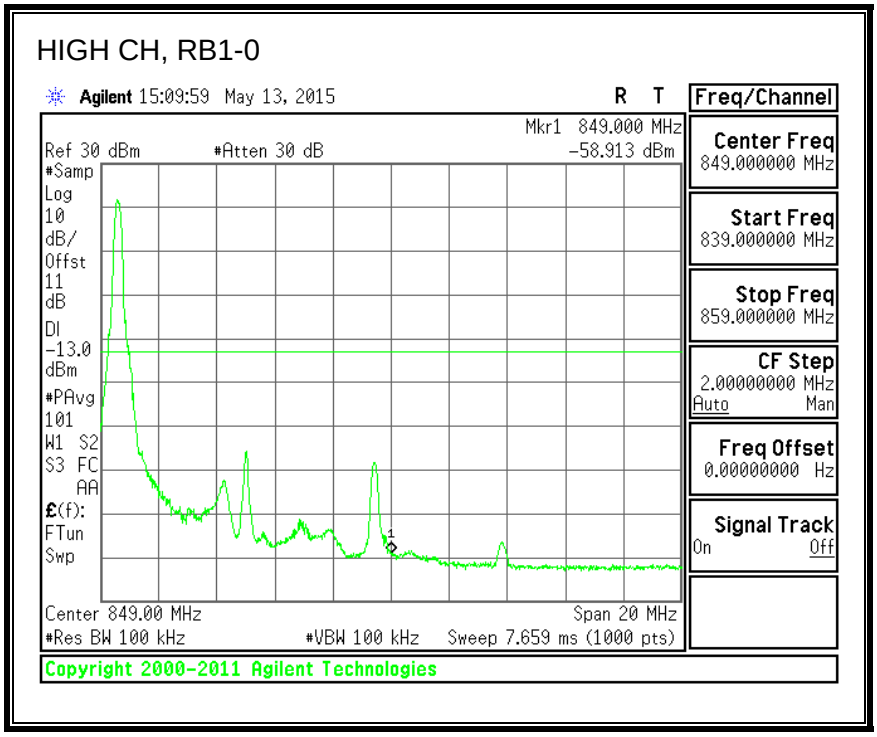
QPSK, (10.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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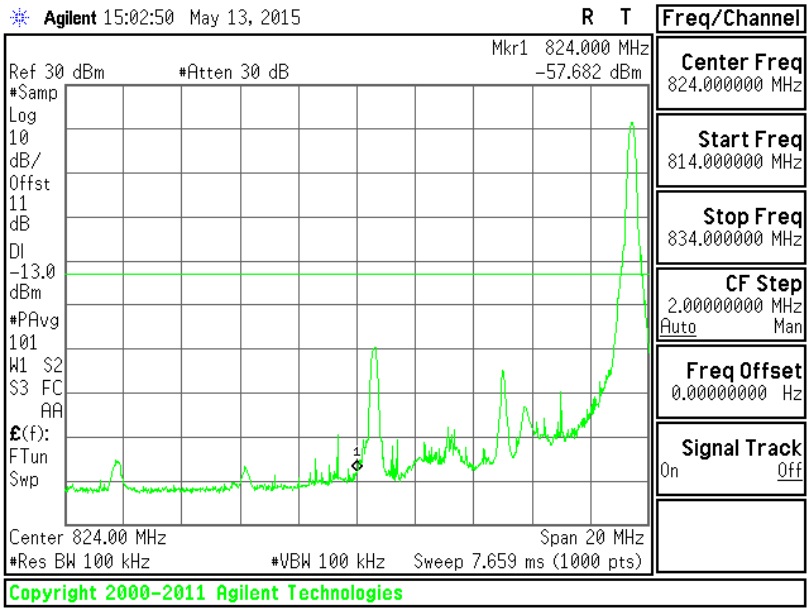
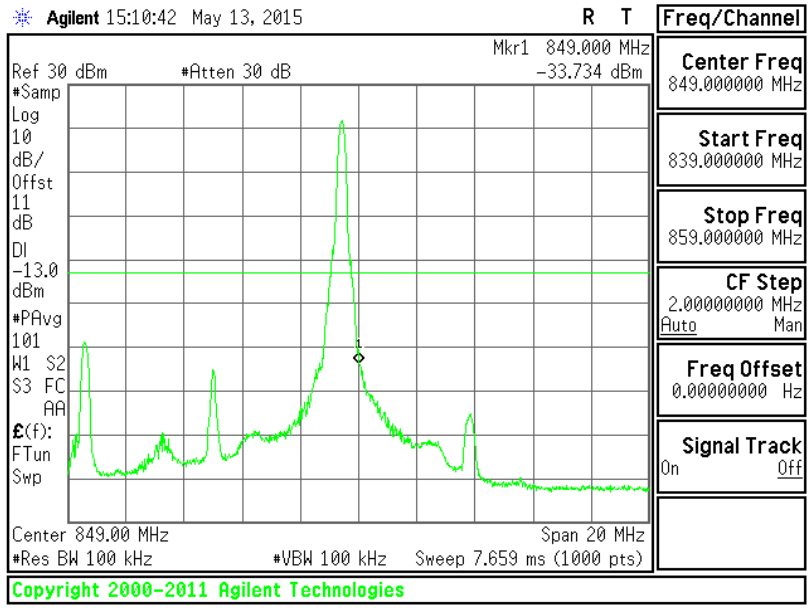
LOW CH, RB1-49



HIGH CH, RB1-49



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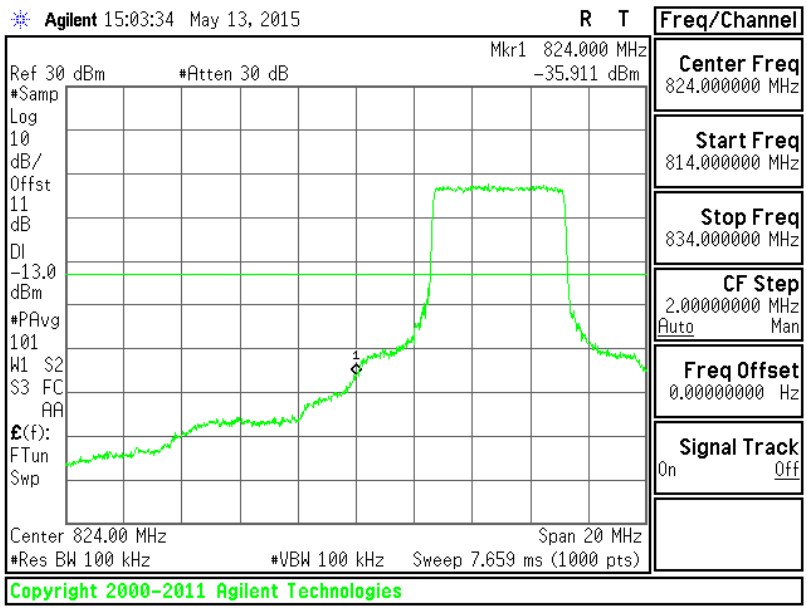
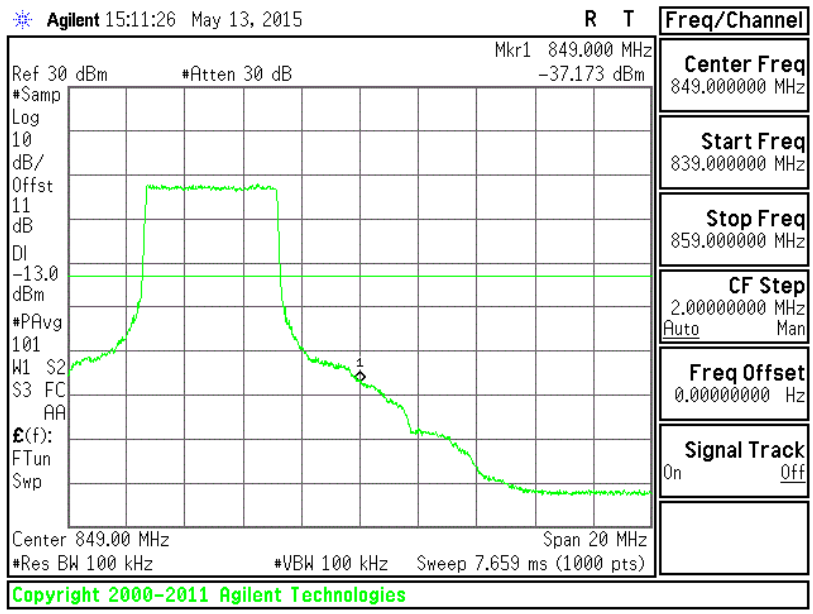
LOW CH, RB25-12



HIGH CH, RB25-12



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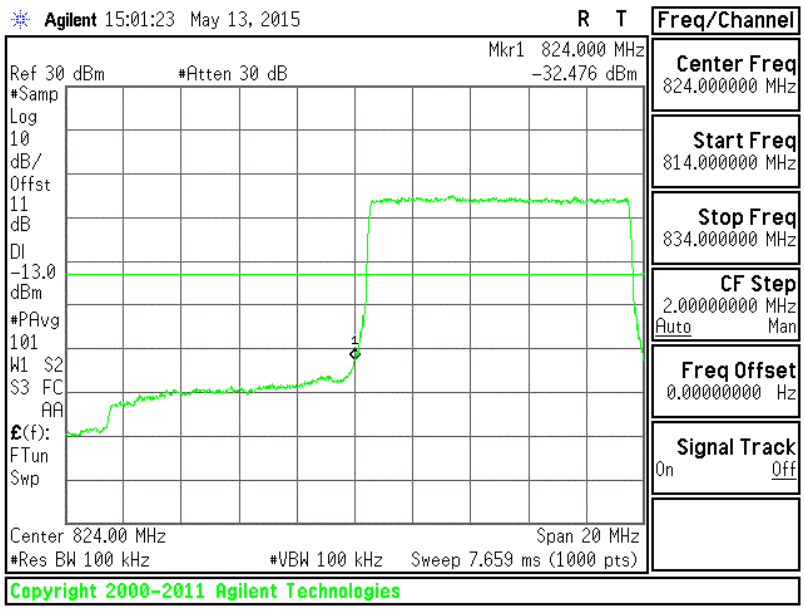
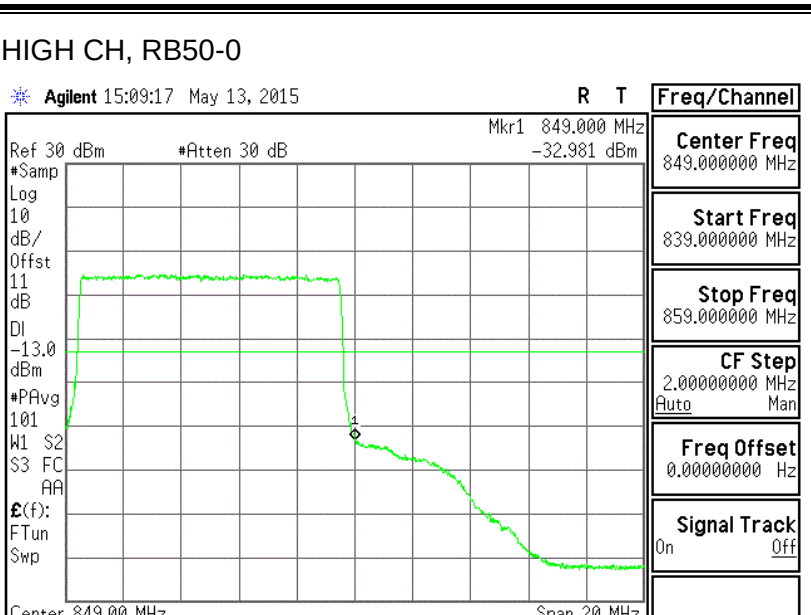
LOW CH, RB50-0



HIGH CH, RB50-0



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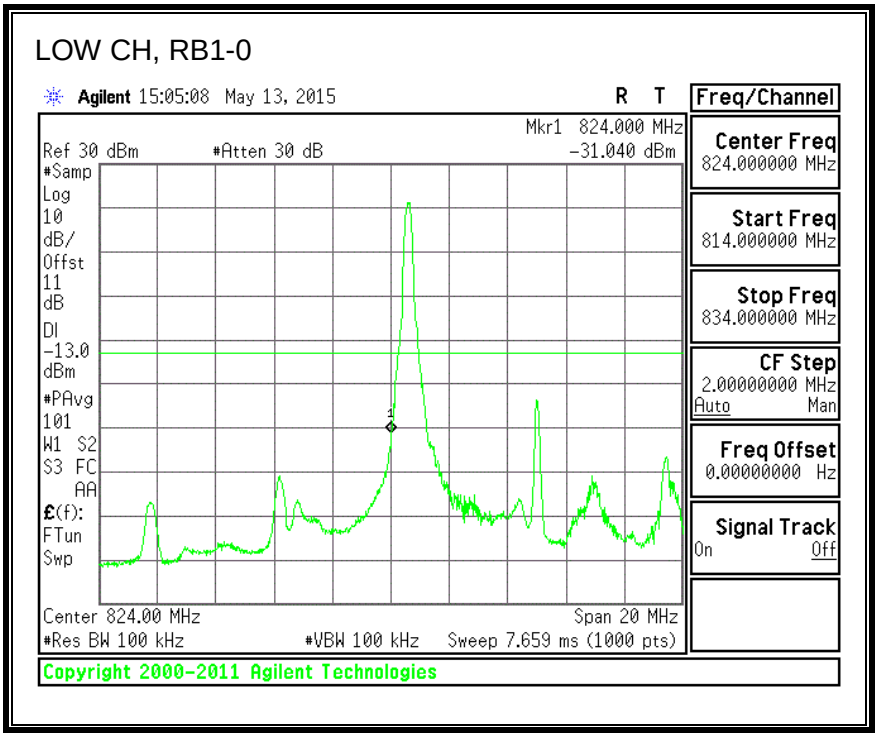
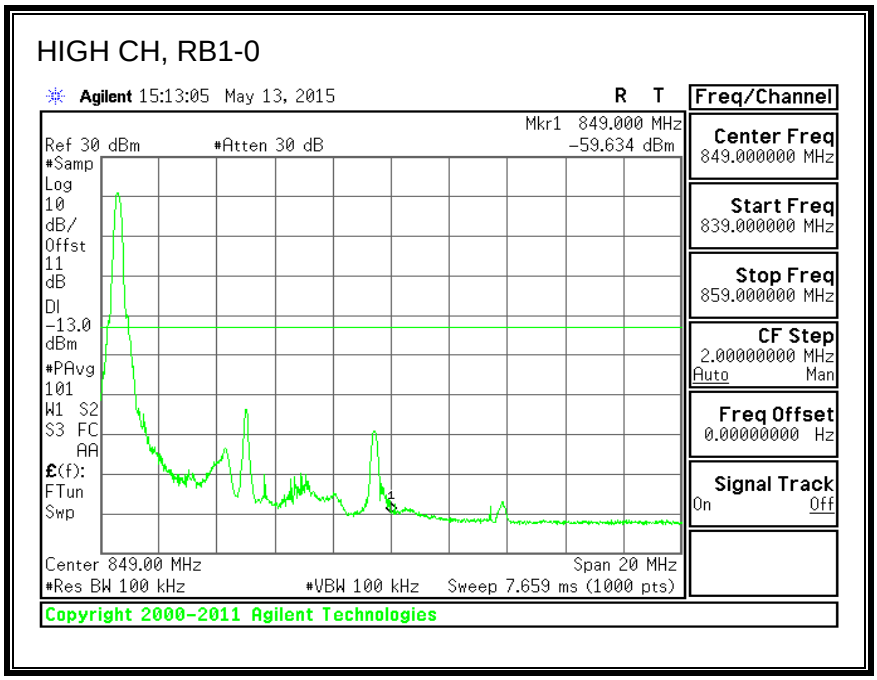
16QAM, (10.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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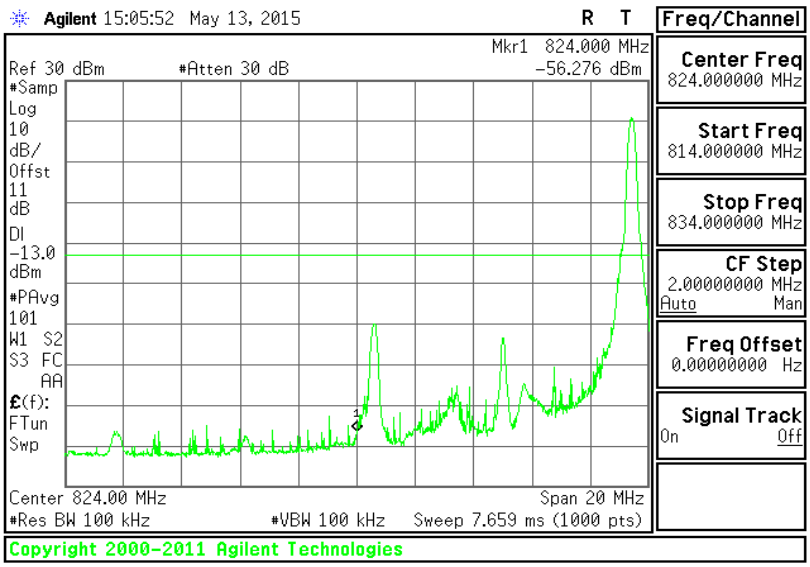
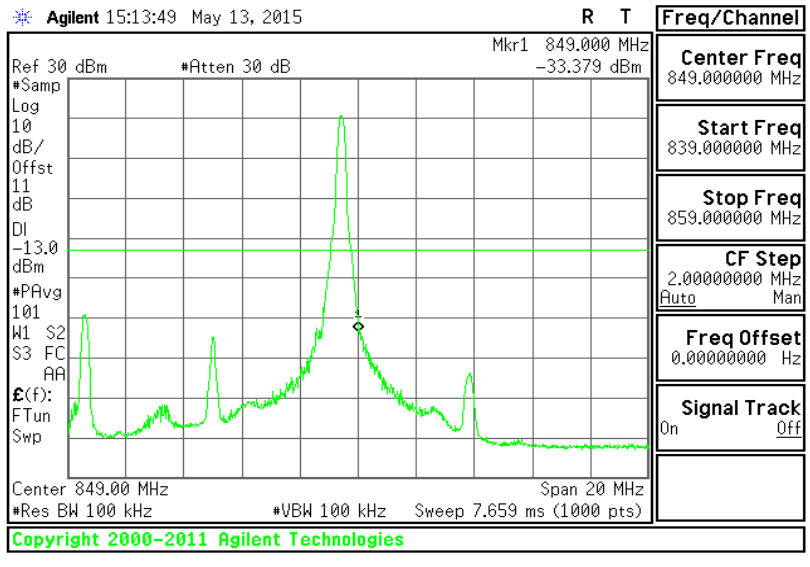
LOW CH, RB1-49



HIGH CH, RB1-49



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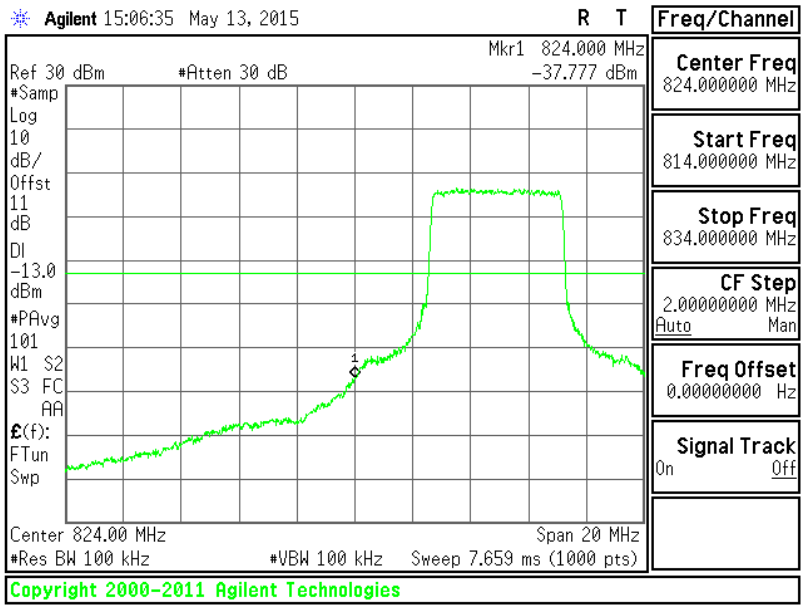
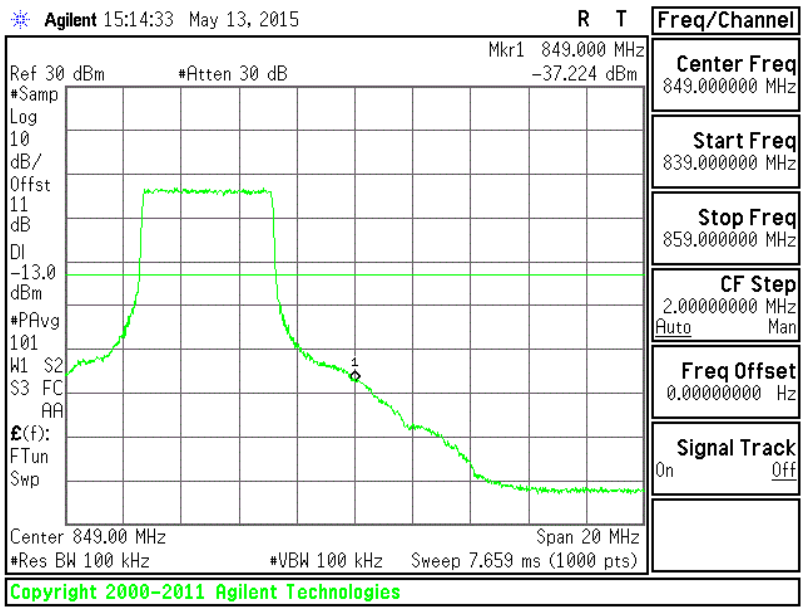
LOW CH, RB25-12



HIGH CH, RB25-12



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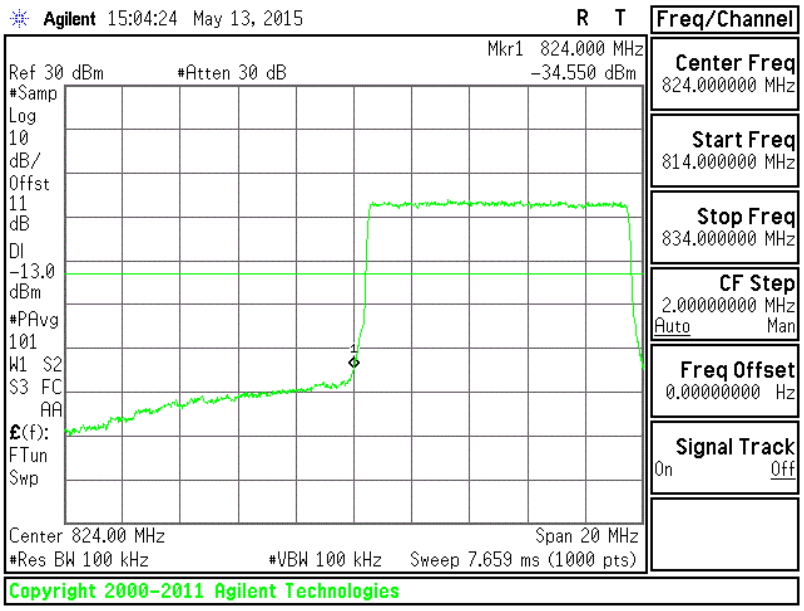
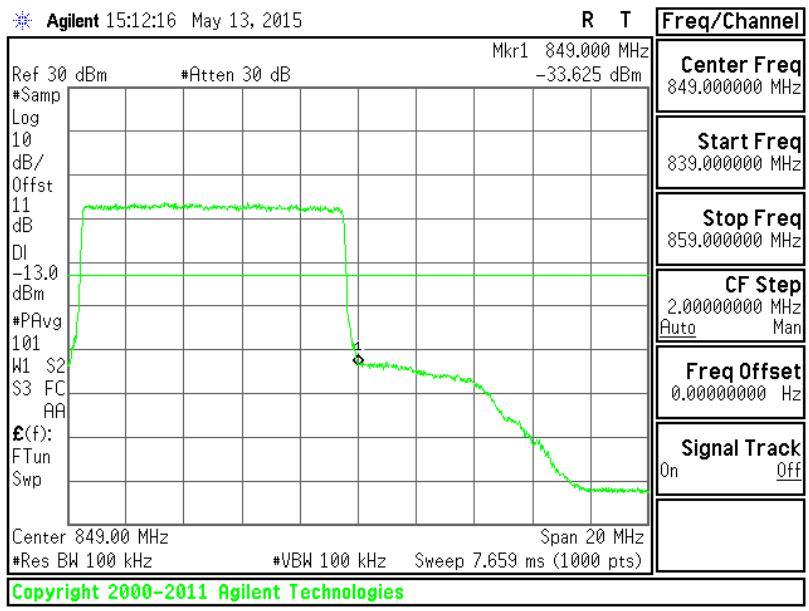
LOW CH, RB50-0



HIGH CH, RB50-0



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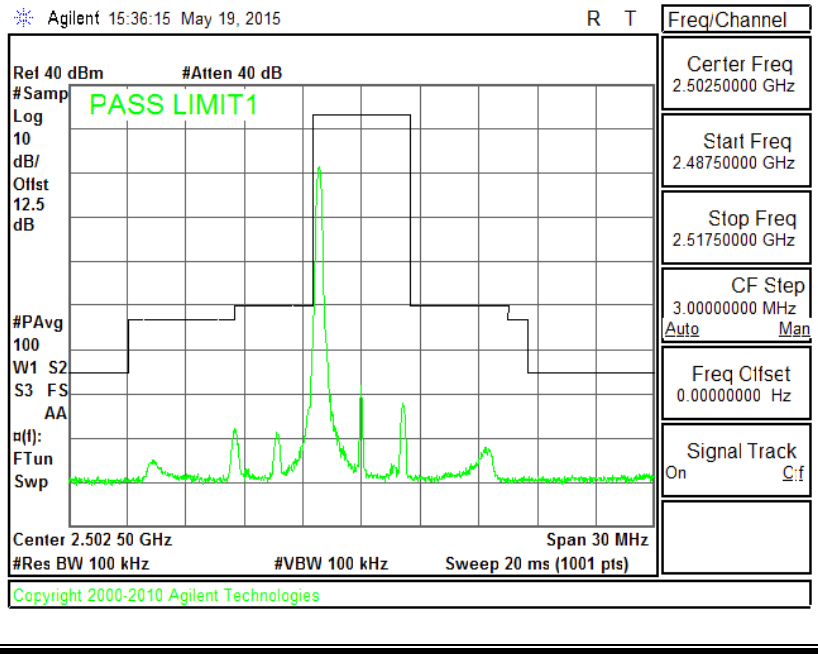
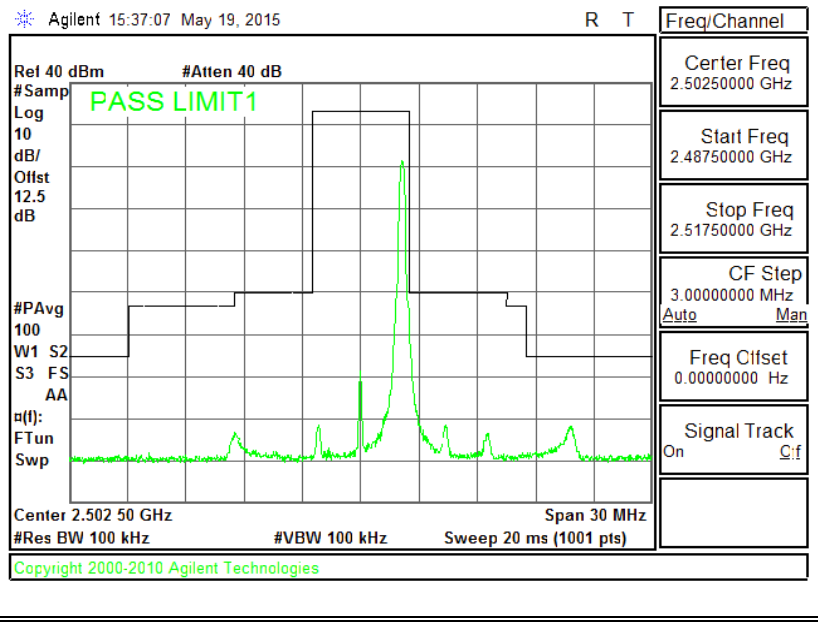
8.4.4. LTE BAND 7 EMISSION MASK

QPSK, (5.0 MHz BAND WIDTH)

LOW CH, RB1-0



LOW CH, RB1-24



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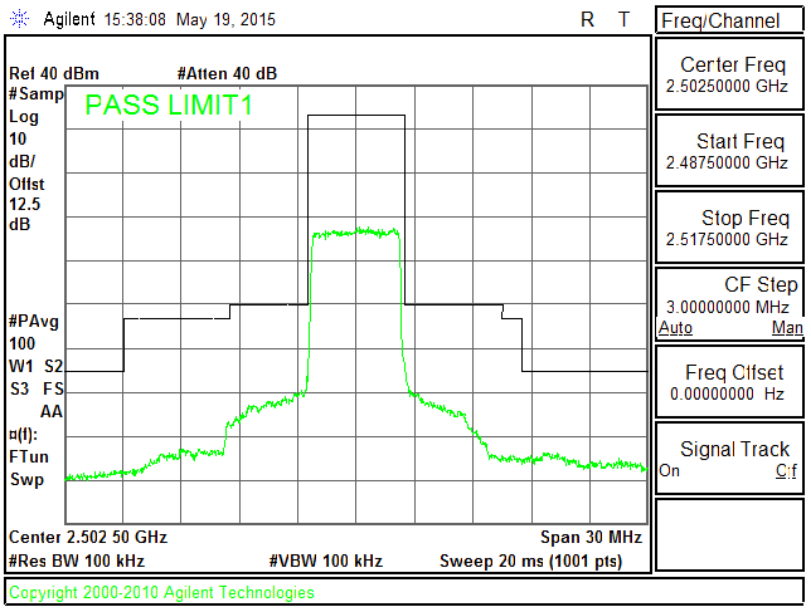
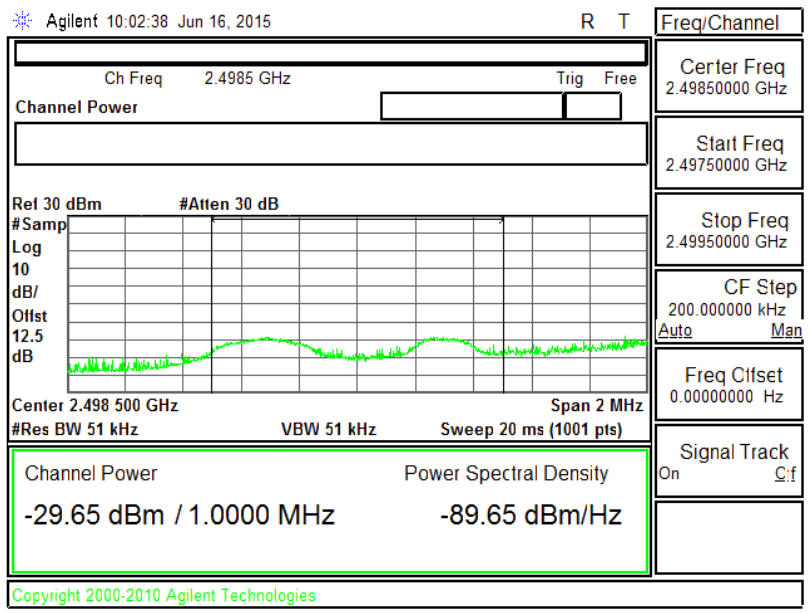
LOW CH, RB25-0



LOW CH, LOW SIDE, (RB=VB= 1%EBW, 2498–2499MHz)



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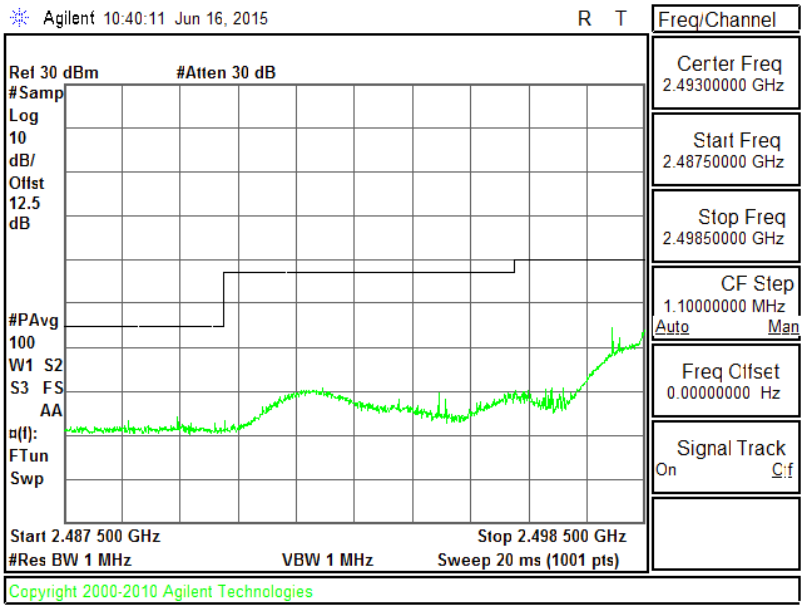
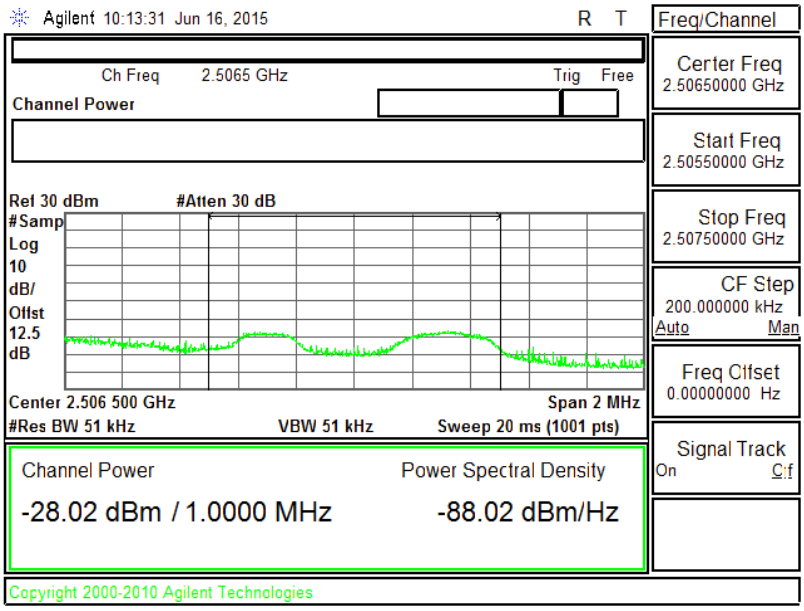
LOW CH, LOW SIDE, (RB=VB= 1MHz, 2487.5-2498.5MHz)



LOW CH, HIGH SIDE, (RB=VB= 1%EBW, 2506–2507MHz)



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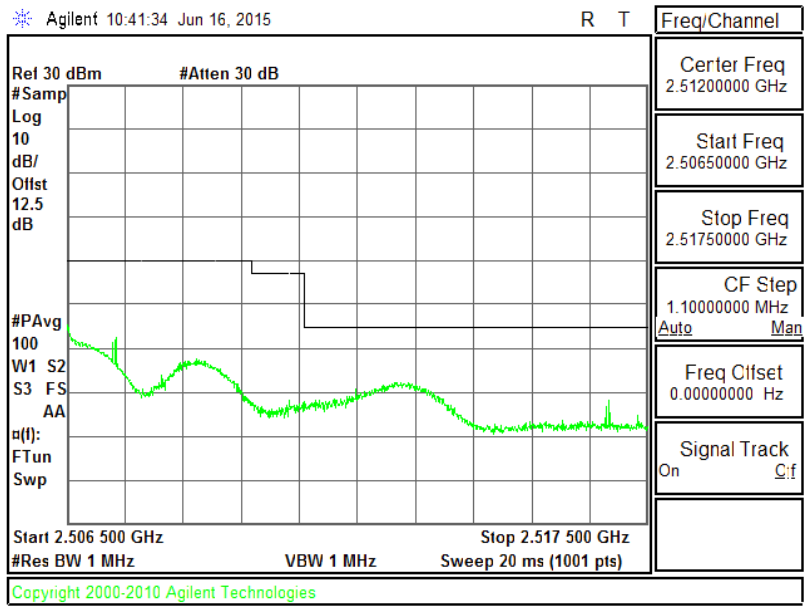
LOW CH, HIGH SIDE, (RB=VB= 1MHz, 2506.5–2517.5MHz)



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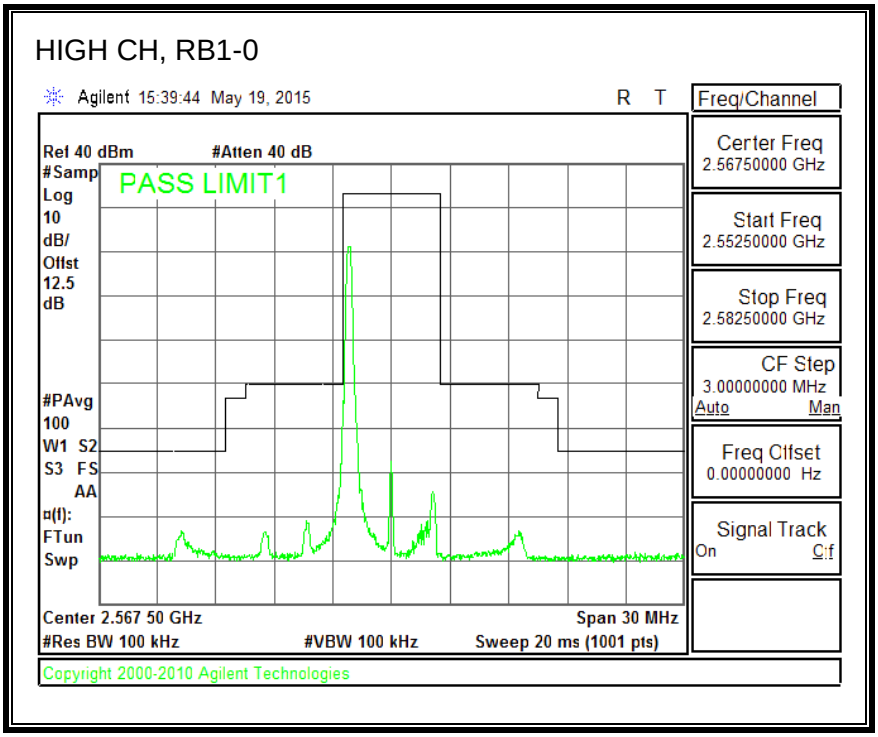
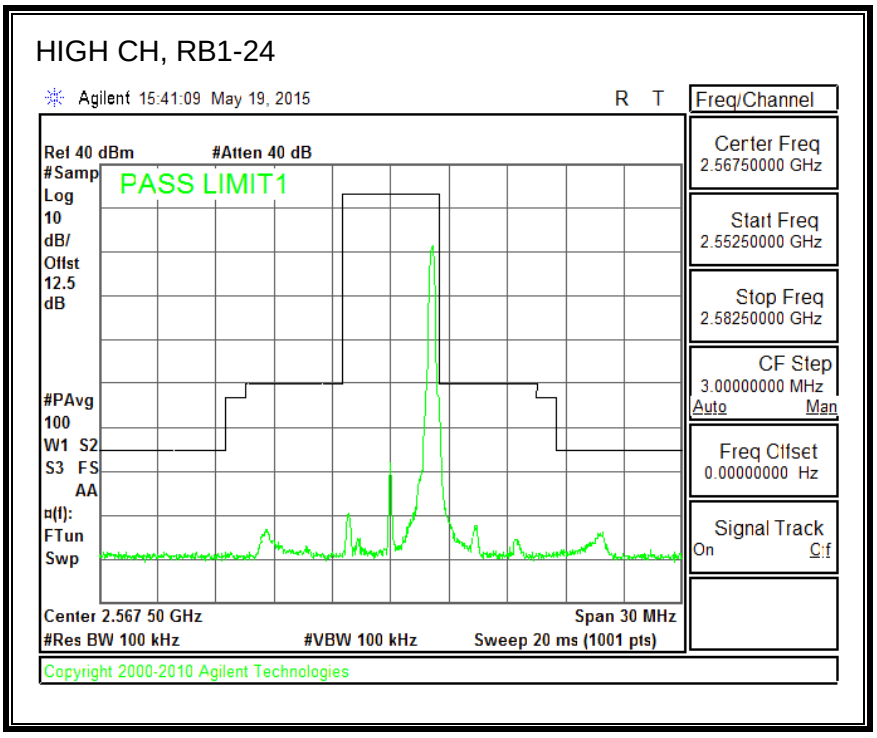
HIGH CH, RB1-0



HIGH CH, RB1-24



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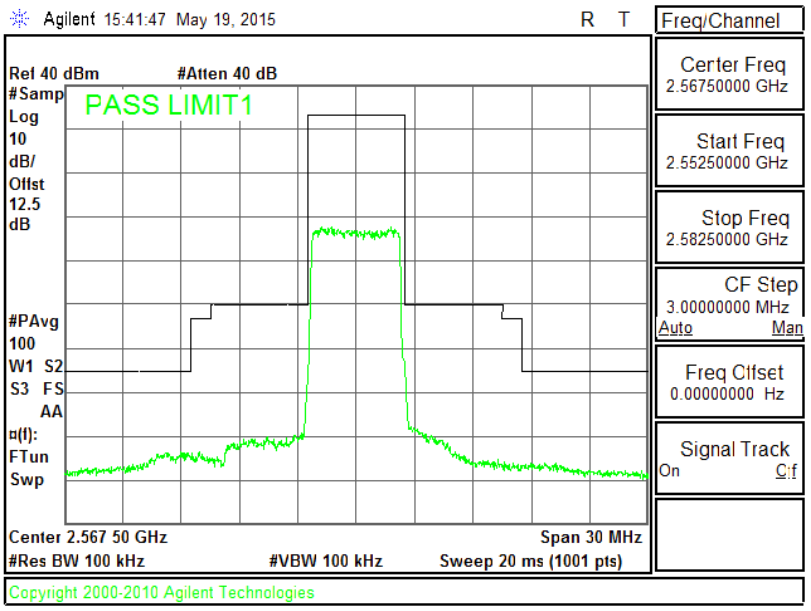
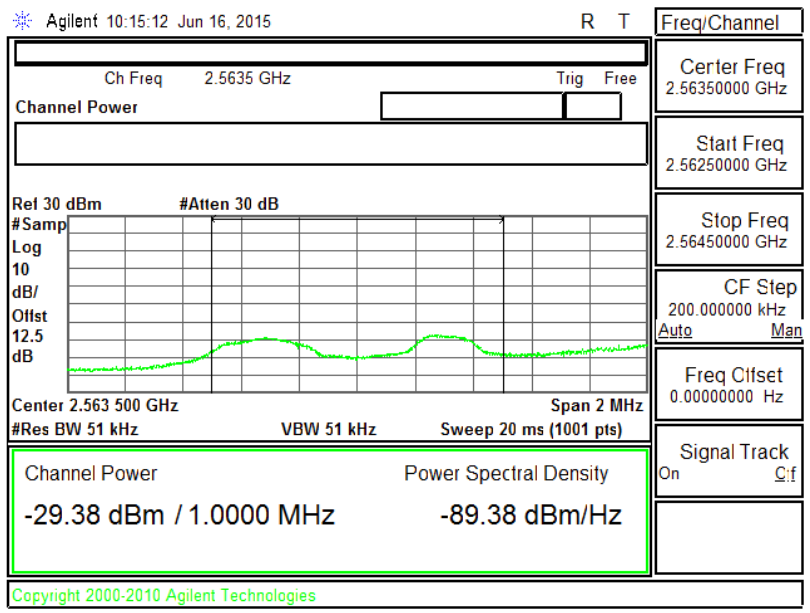
HIGH CH, RB25-0



HIGH CH, LOW SIDE, (RB=VB= 1%EBW, 2563-2564MHz)



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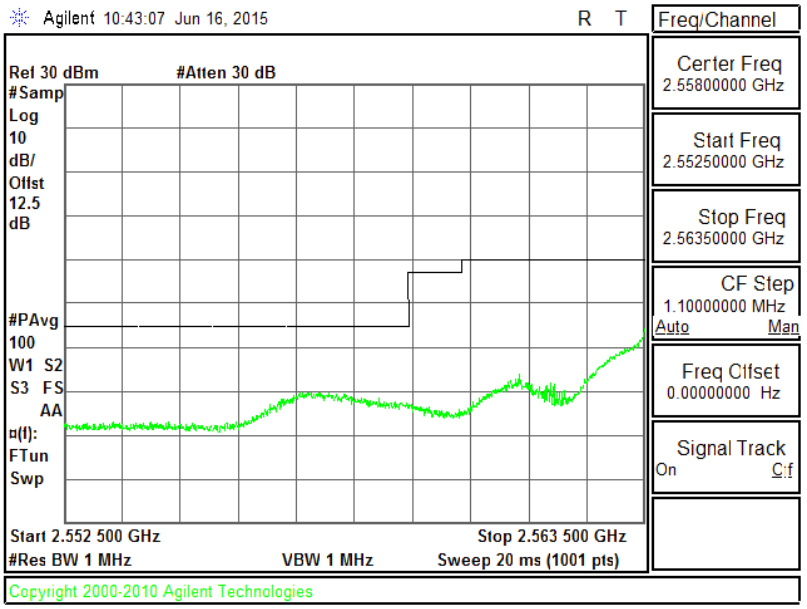
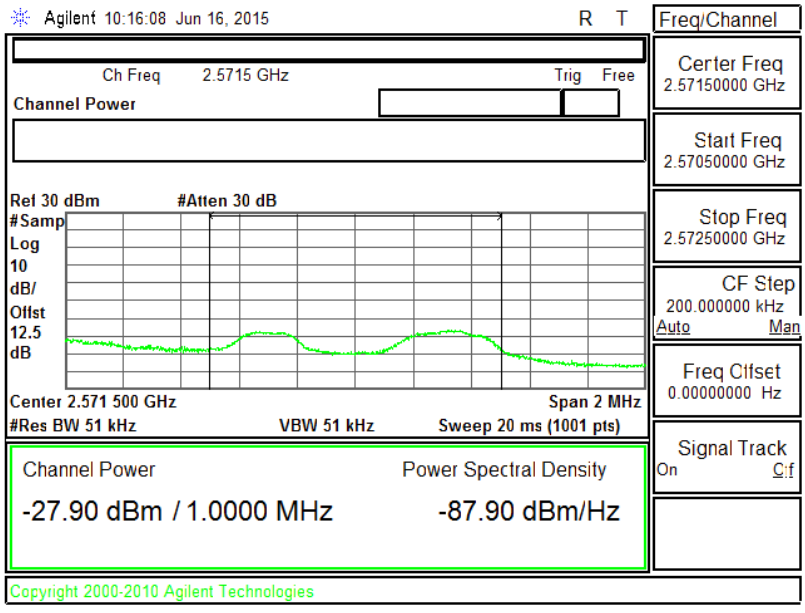
HIGH CH, LOW SIDE, (RB=VB= 1MHz, 2552.5-2563.5MHz)



HIGH CH, HIGH SIDE, (RB=VB= 1%EBW, 2571-2572MHz)



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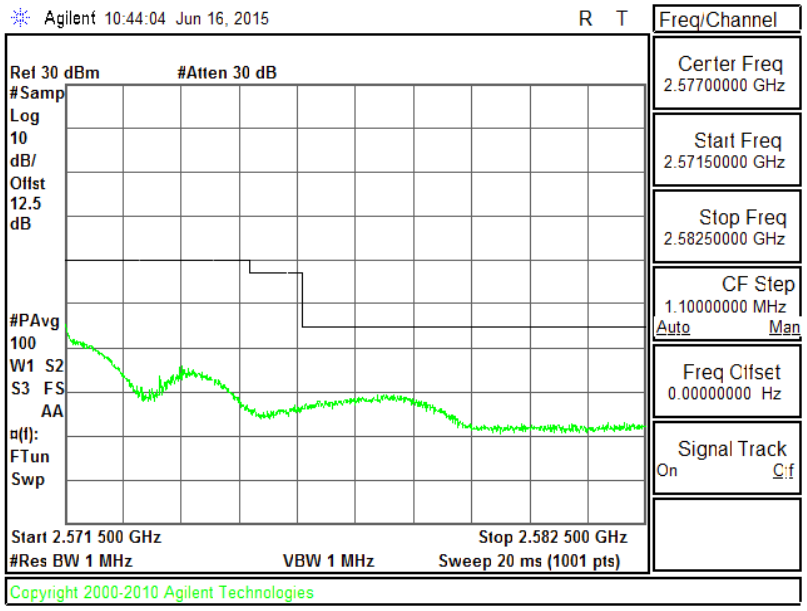
HIGH CH, HIGH SIDE, (RB=VB= 1MHz, 2571.5–2582.5MHz)



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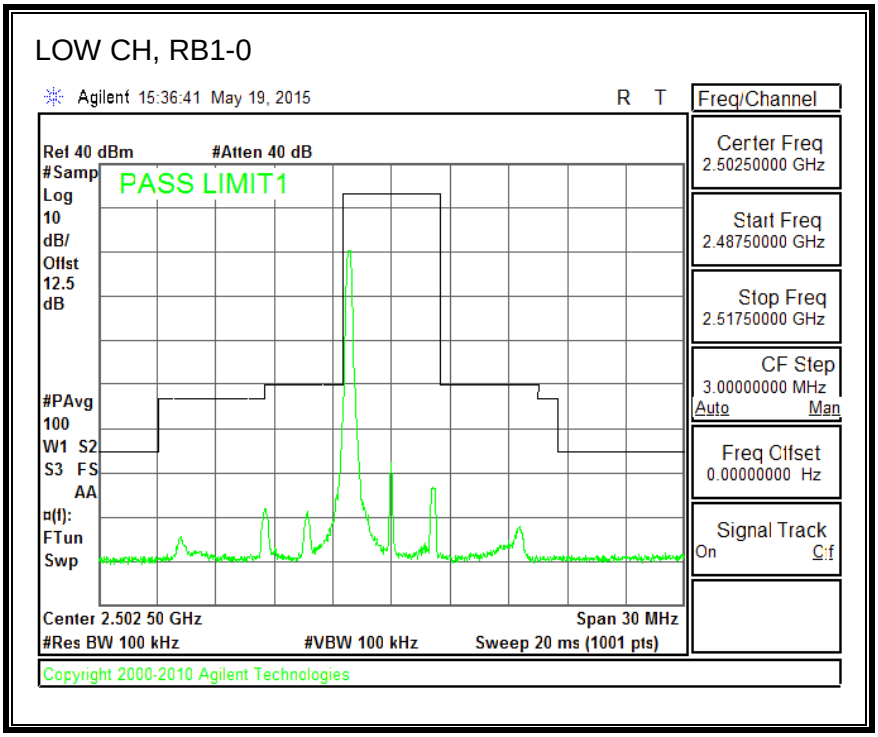
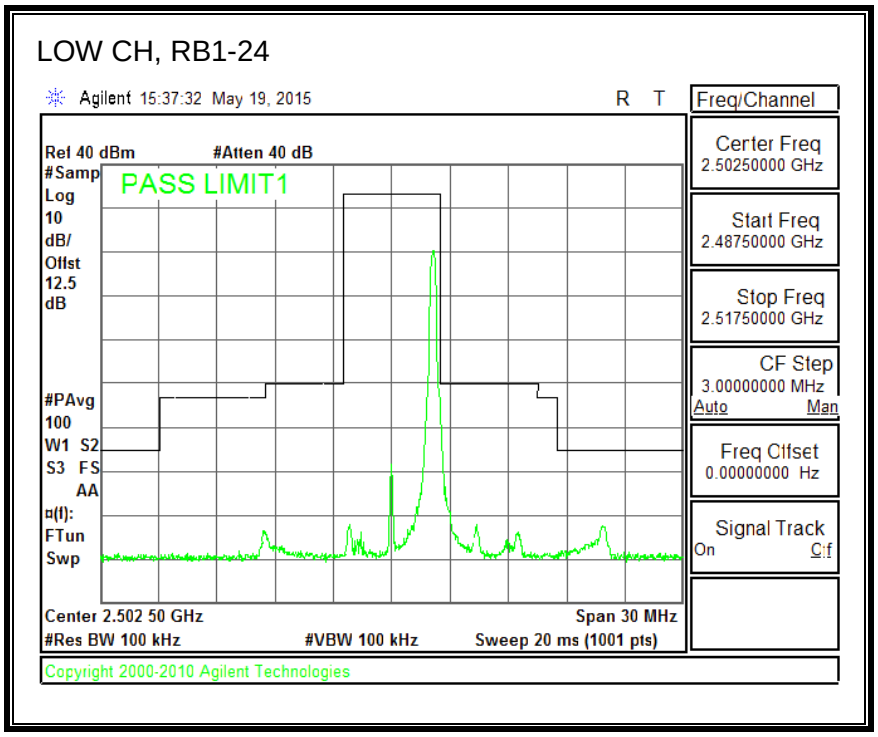
16QAM, (5.0 MHz BAND WIDTH)

LOW CH, RB1-0



LOW CH, RB1-24



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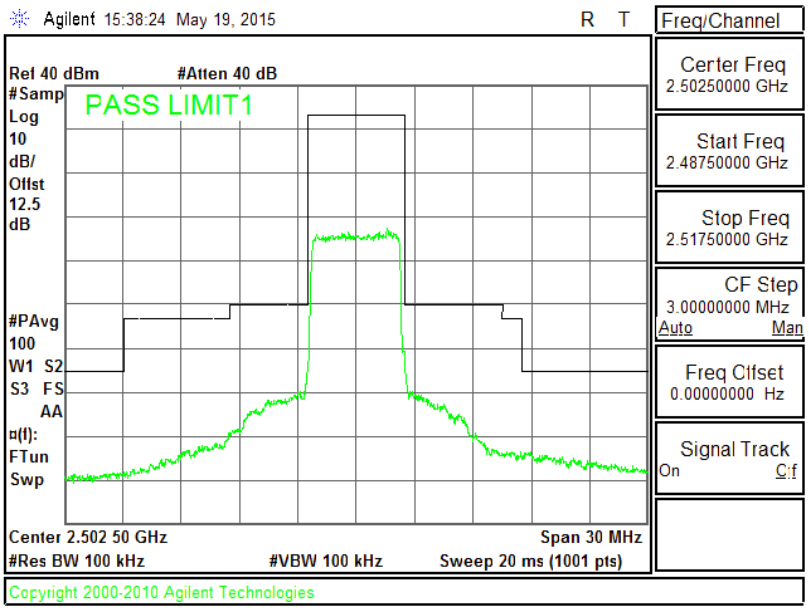
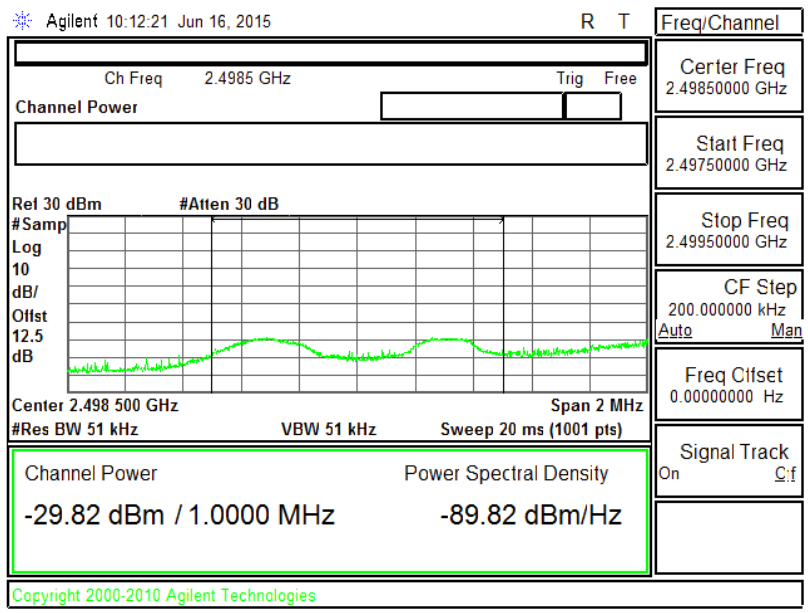
LOW CH, RB25-0



LOW CH, LOW SIDE, (RB=VB= 1%EBW, 2498–2499MHz)



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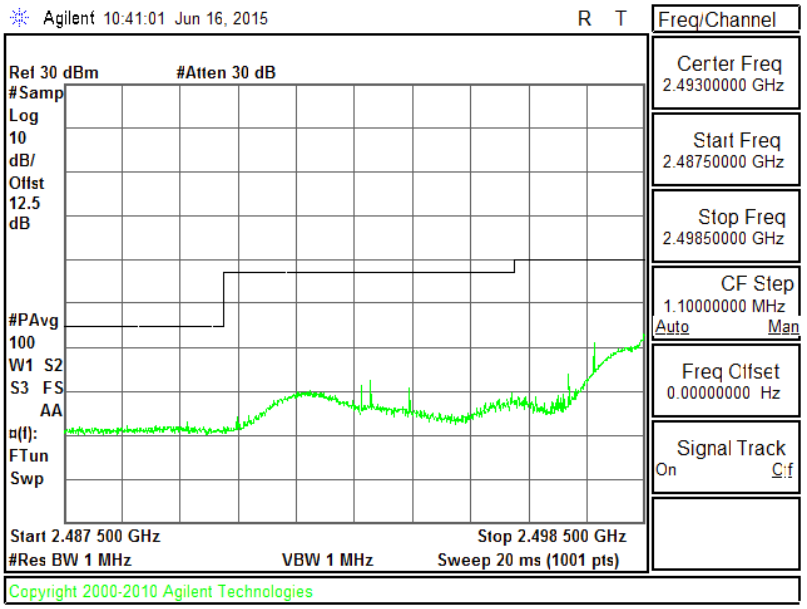
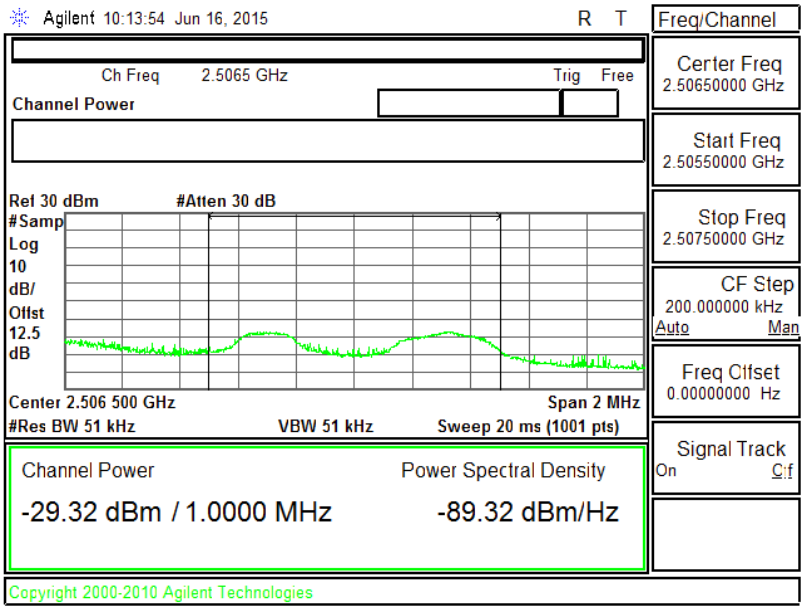
LOW CH, LOW SIDE, (RB=VB= 1MHz, 2487.5-2498.5MHz)



LOW CH, HIGH SIDE, (RB=VB= 1%EBW, 2506–2507MHz)



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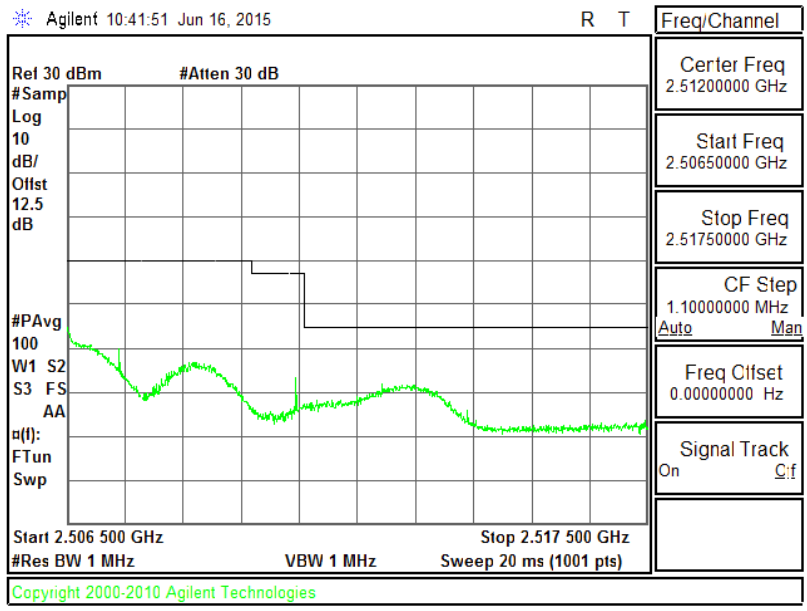
LOW CH, HIGH SIDE, (RB=VB= 1MHz, 2506.5–2517.5MHz)



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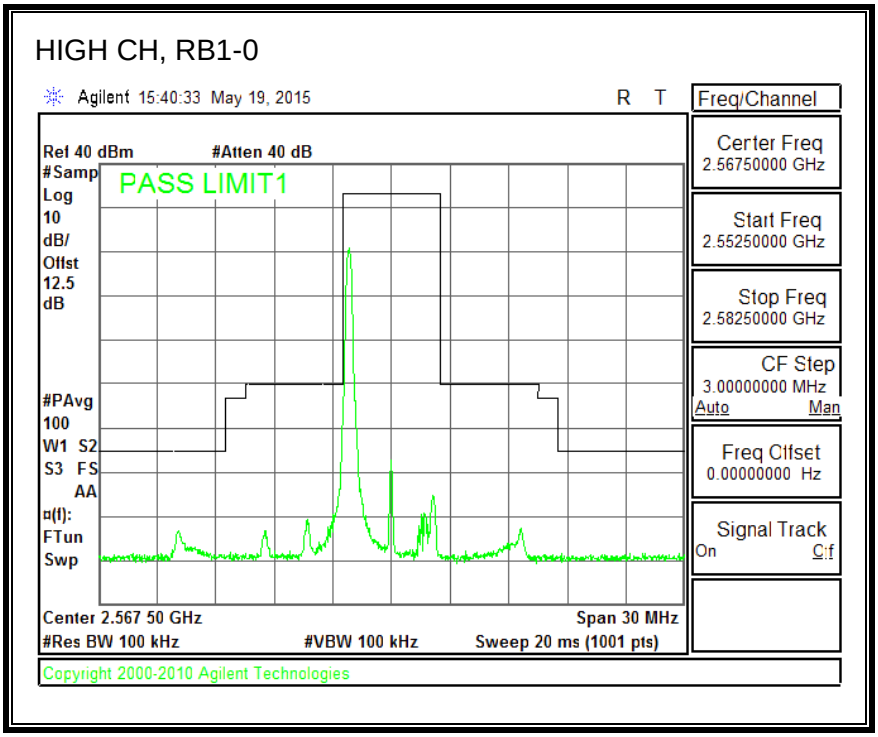
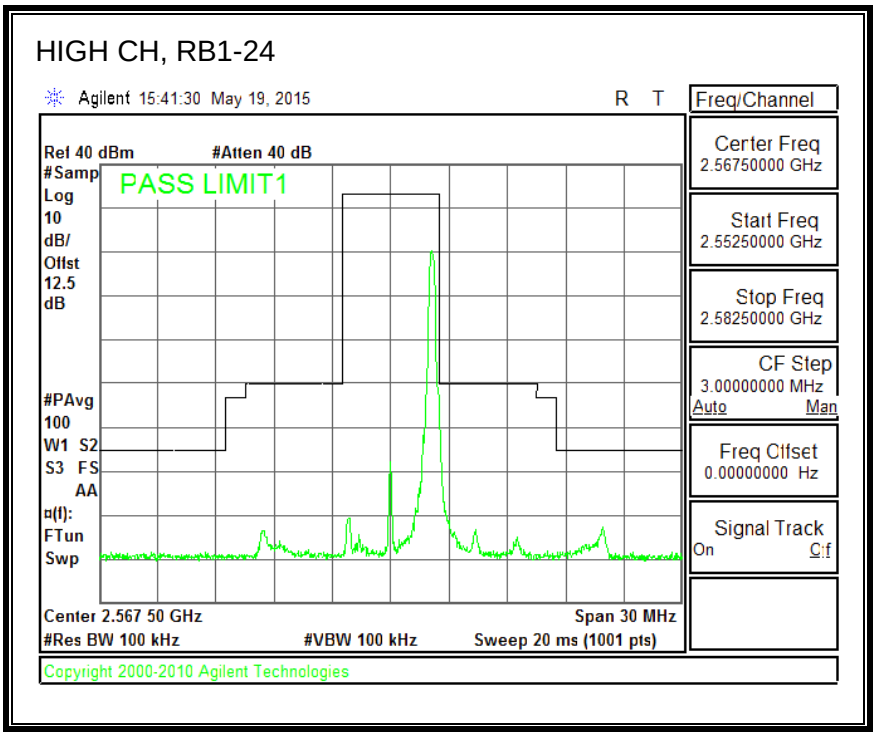
HIGH CH, RB1-0



HIGH CH, RB1-24



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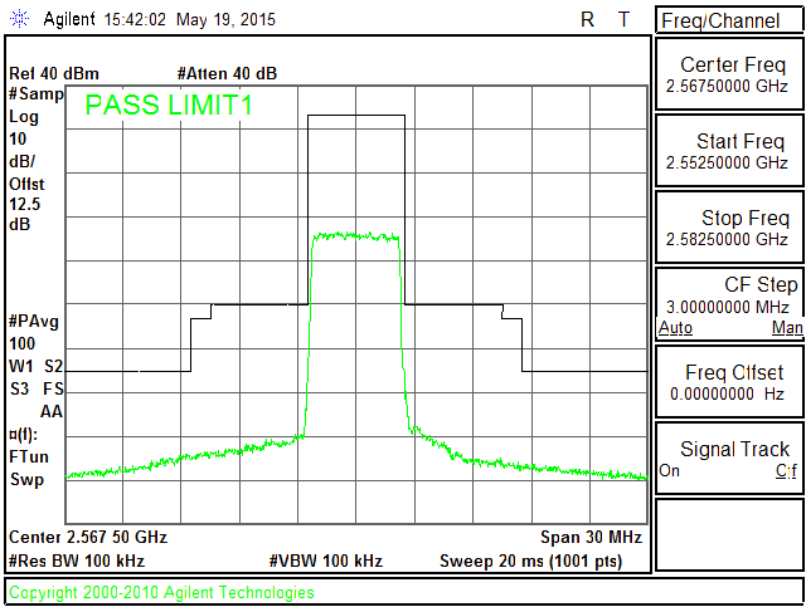
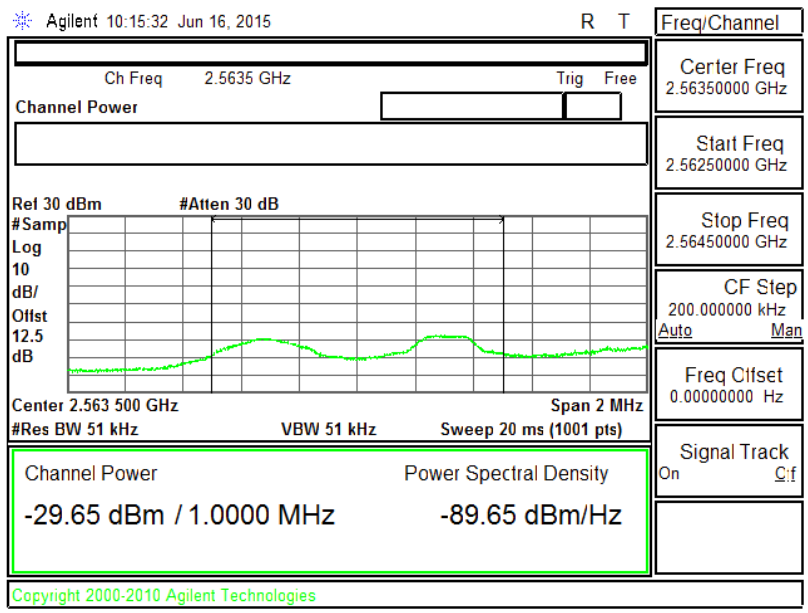
HIGH CH, RB25-0



HIGH CH, LOW SIDE, (RB=VB= 1%EBW, 2563-2564MHz)



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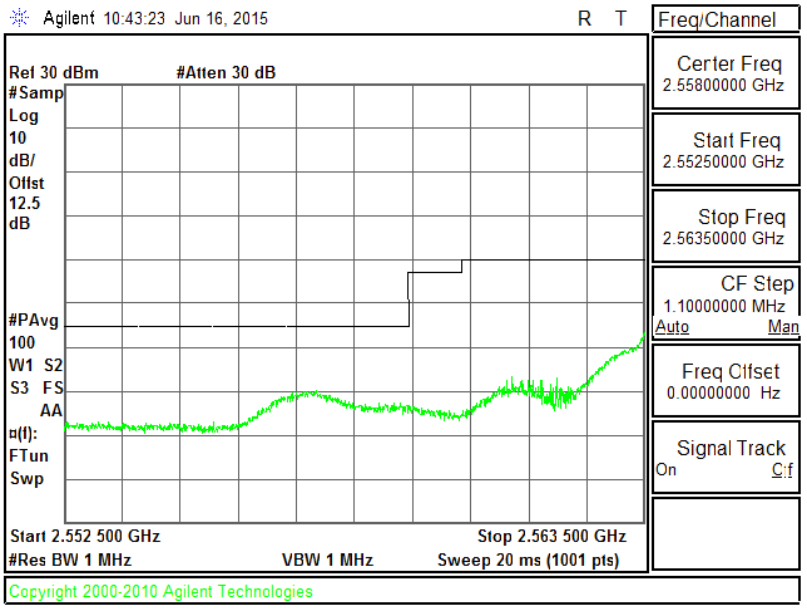
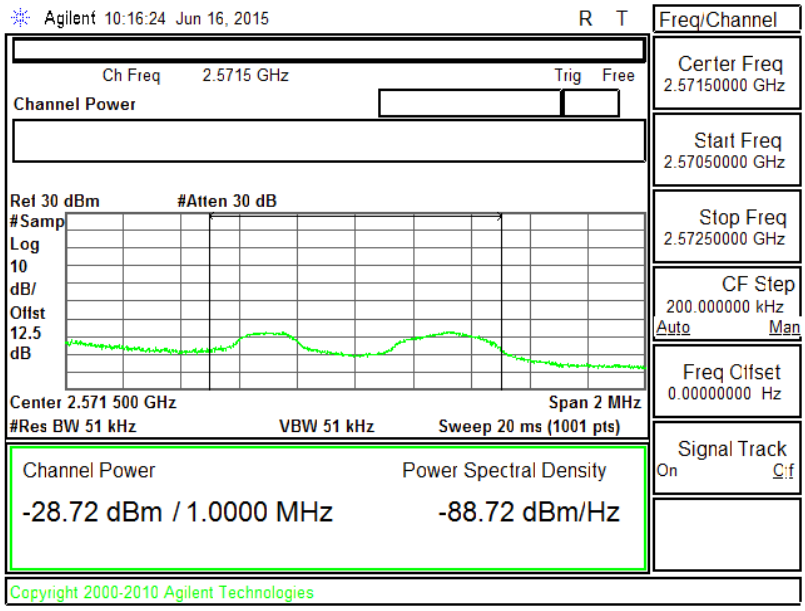
HIGH CH, LOW SIDE, (RB=VB= 1MHz, 2552.5-2563.5MHz)



HIGH CH, HIGH SIDE, (RB=VB= 1%EBW, 2571-2572MHz)



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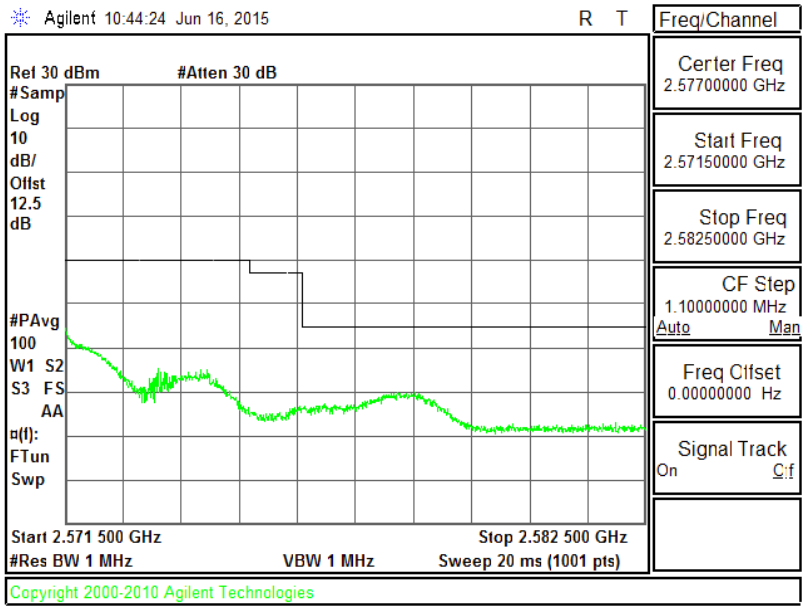
HIGH CH, HIGH SIDE, (RB=VB= 1MHz, 2571.5–2582.5MHz)



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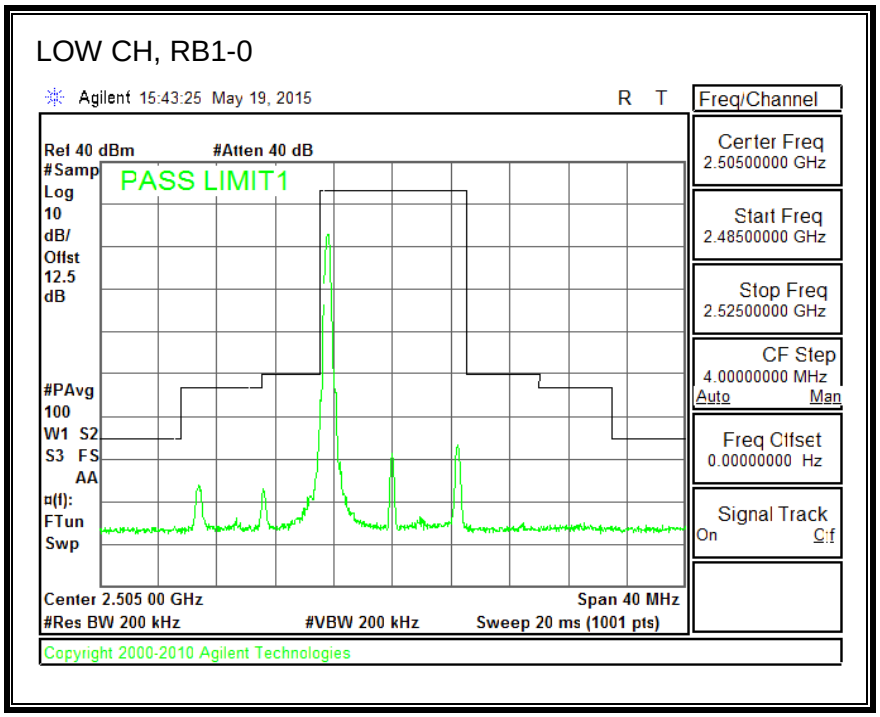
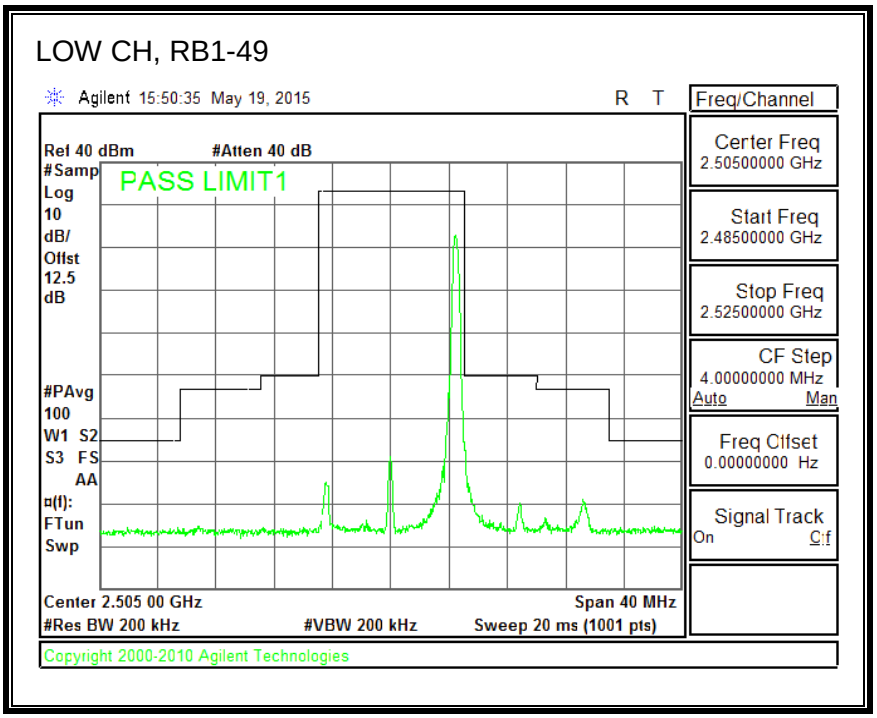
QPSK, (10.0 MHz BAND WIDTH)

LOW CH, RB1-0



LOW CH, RB1-49



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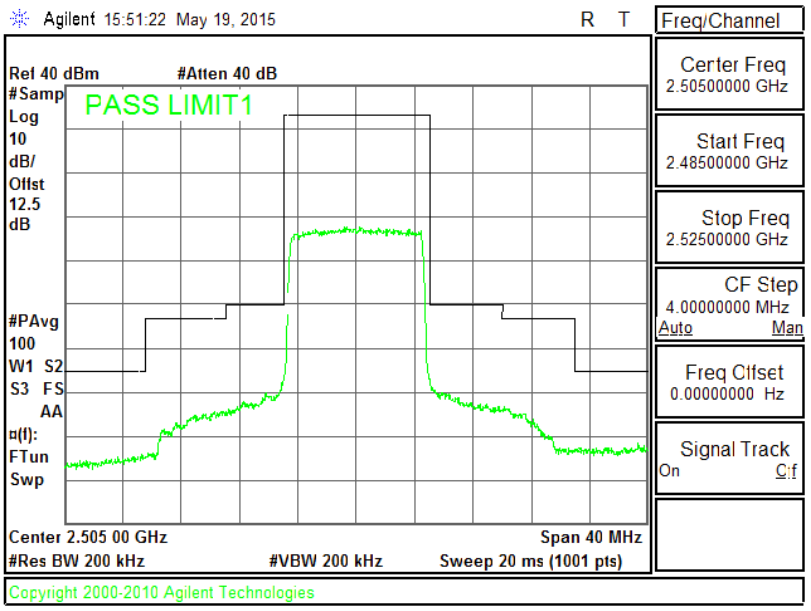
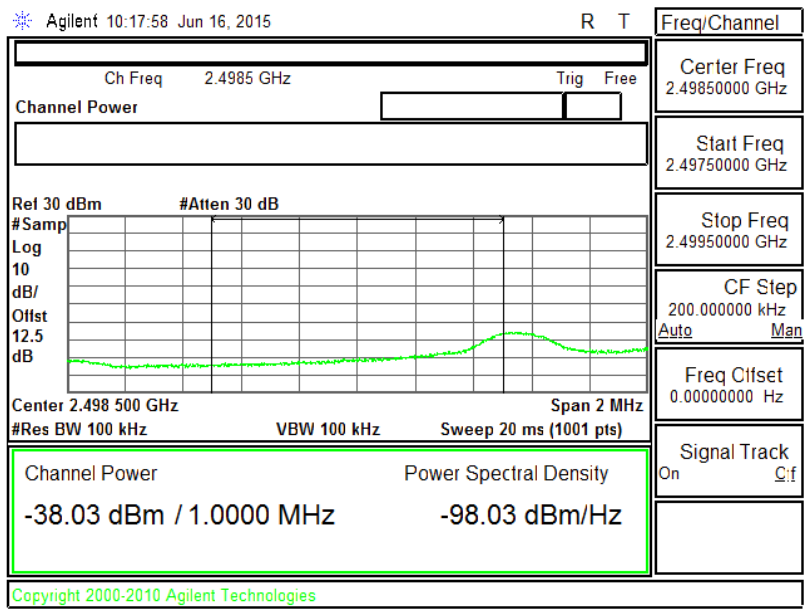
LOW CH, RB50-0



LOW CH, LOW SIDE, (RB=VB= 1%EBW, 2498-2499MHz)



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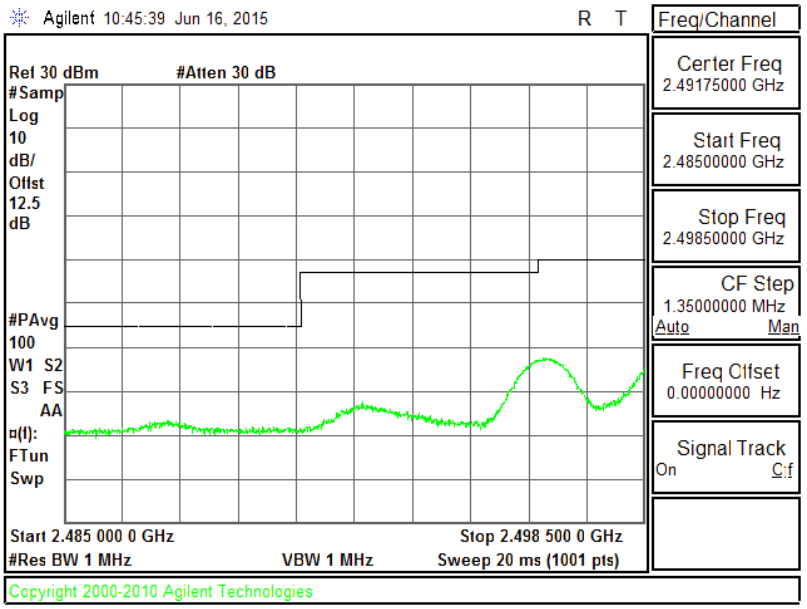
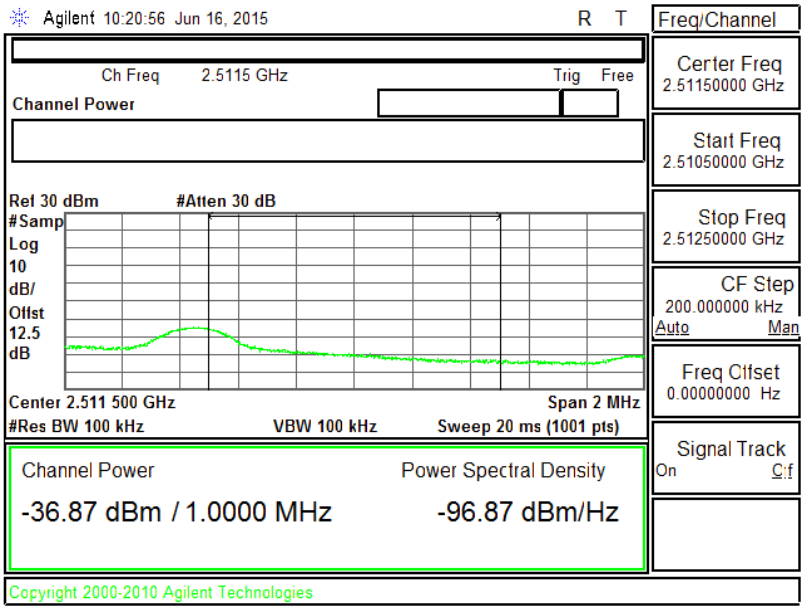
LOW CH, LOW SIDE, (RB=VB= 1MHz, 2485-2498.5MHz)



LOW CH, HIGH SIDE, (RB=VB= 1%EBW, 2511-2512MHz)



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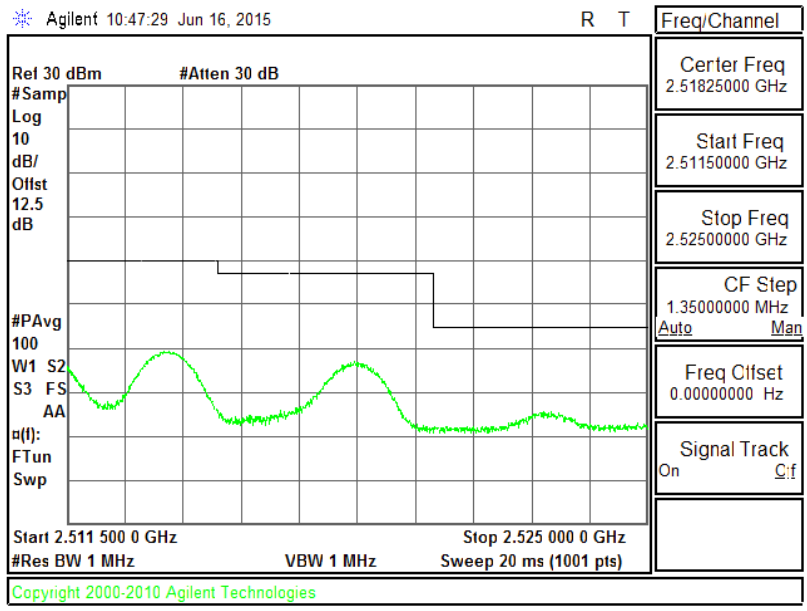
LOW CH, HIGH SIDE, (RB=VB= 1MHz, 2511.5-2525MHz)



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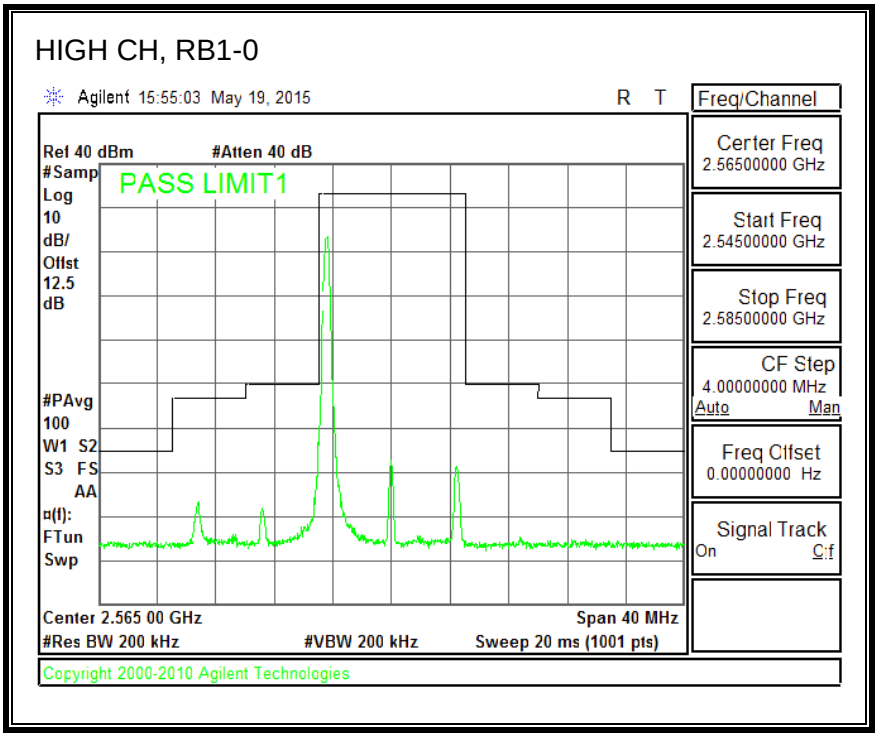
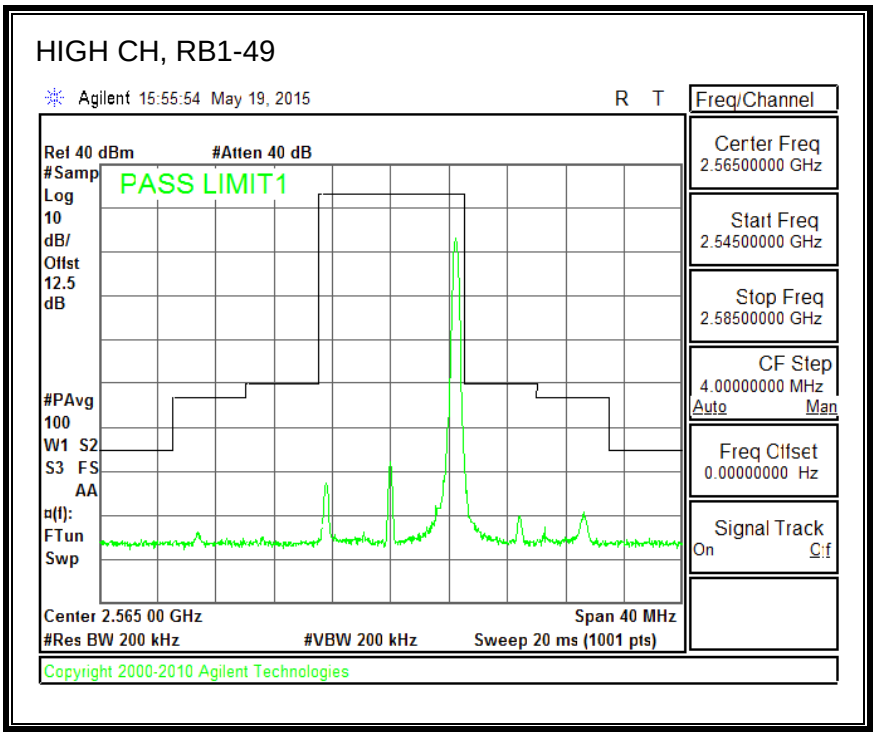
HIGH CH, RB1-0



HIGH CH, RB1-49



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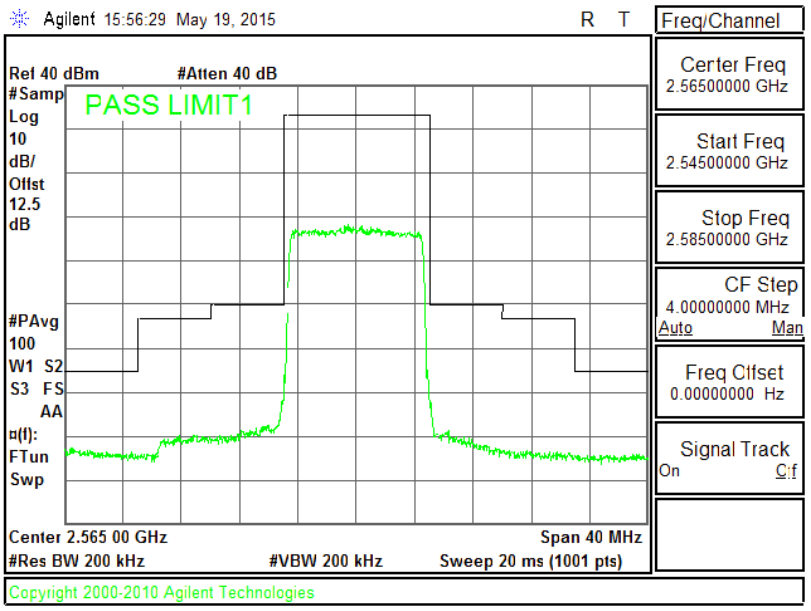
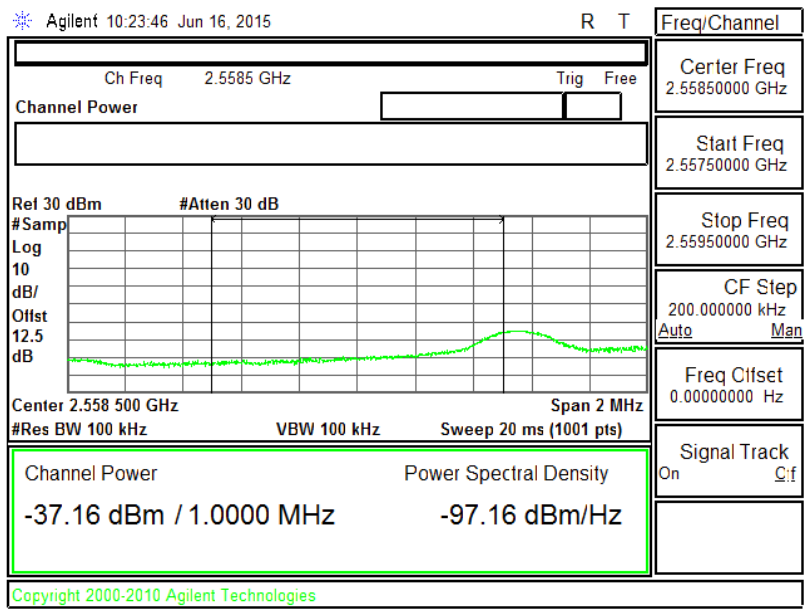
HIGH CH, RB50-0



HIGH CH, LOW SIDE, (RB=VB= 1%EBW, 2558-2559MHz)



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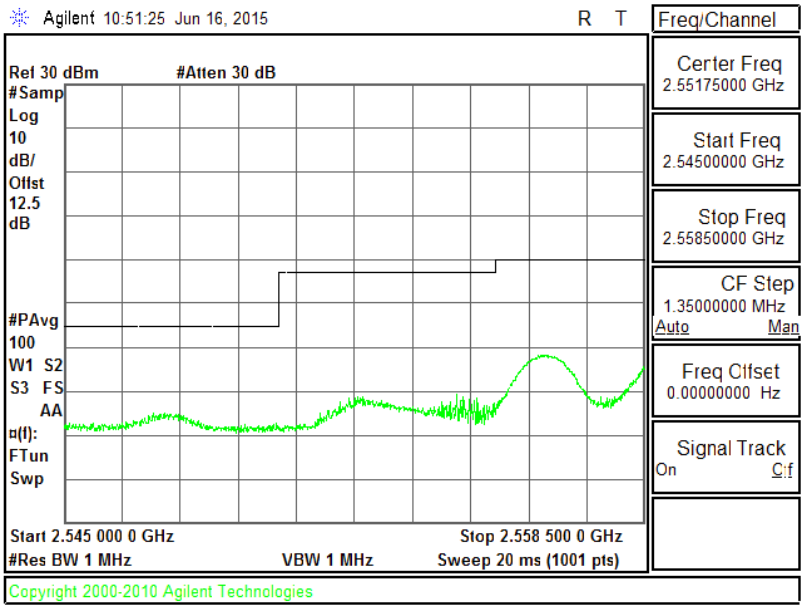
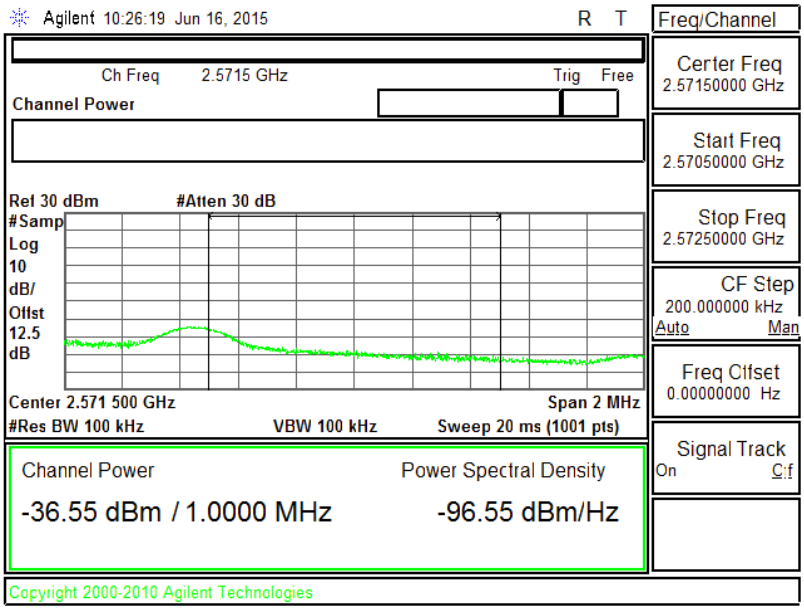
HIGH CH, LOW SIDE, (RB=VB= 1MHz, 2545-2558.5MHz)



HIGH CH, HIGH SIDE, (RB=VB= 1%EBW, 2571-2572MHz)



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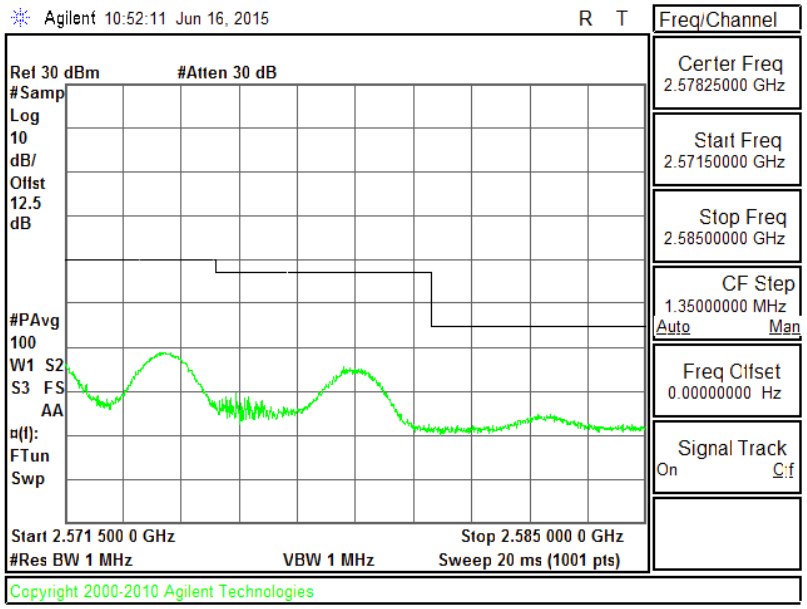
HIGH CH, HIGH SIDE, (RB=VB= 1MHz, 2571.5–2585MHz)



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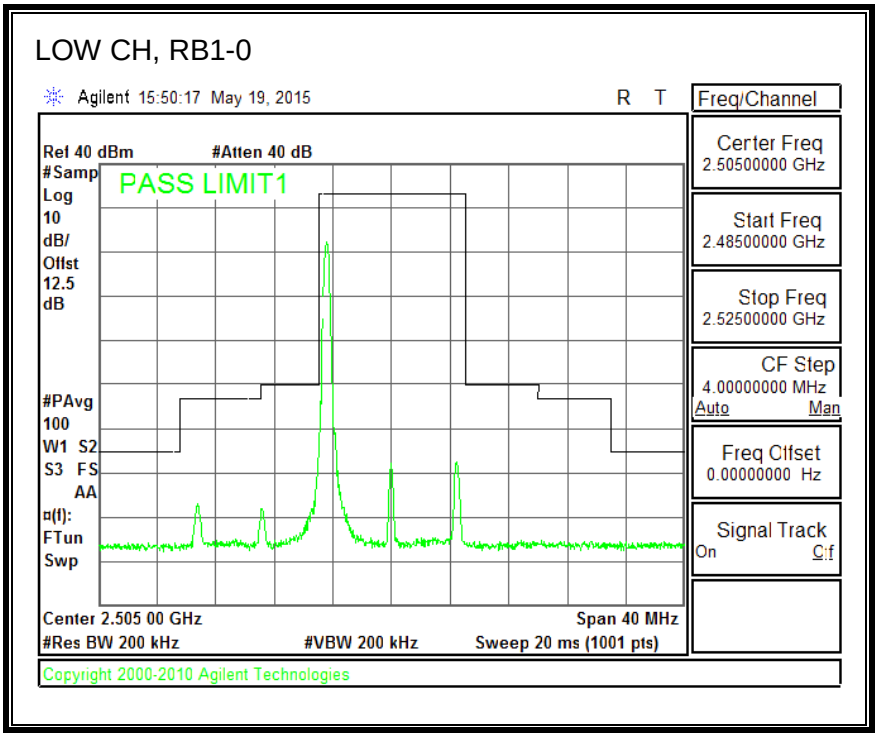
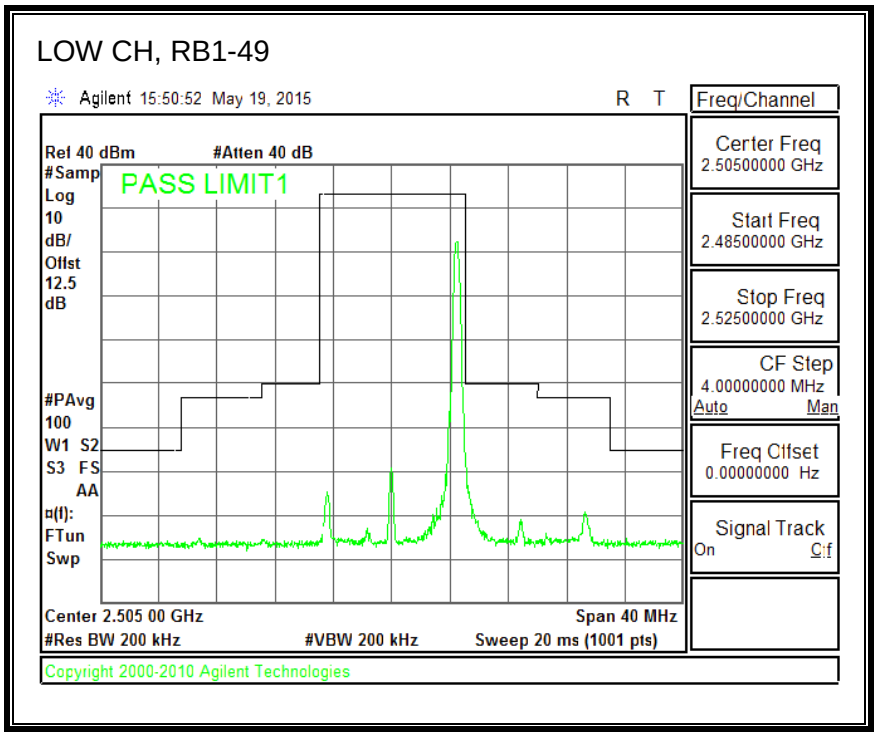
16QAM, (10.0 MHz BAND WIDTH)

LOW CH, RB1-0



LOW CH, RB1-49



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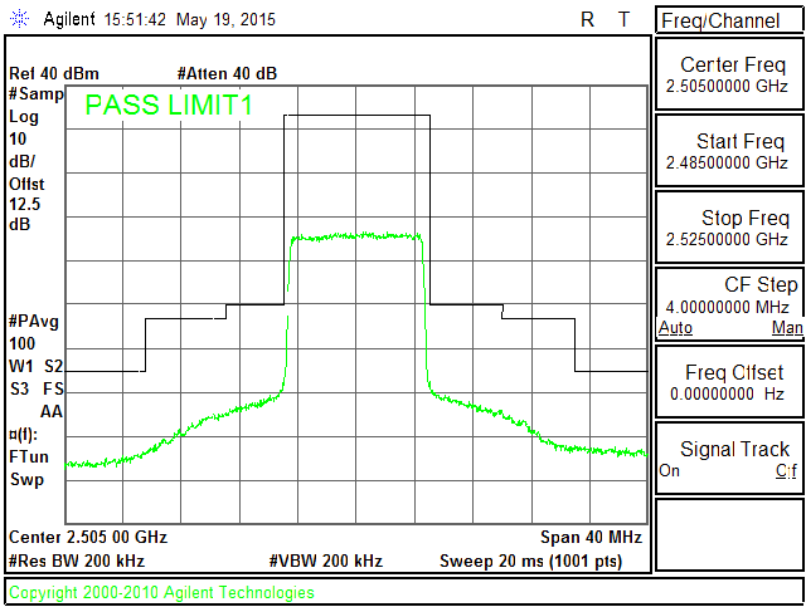
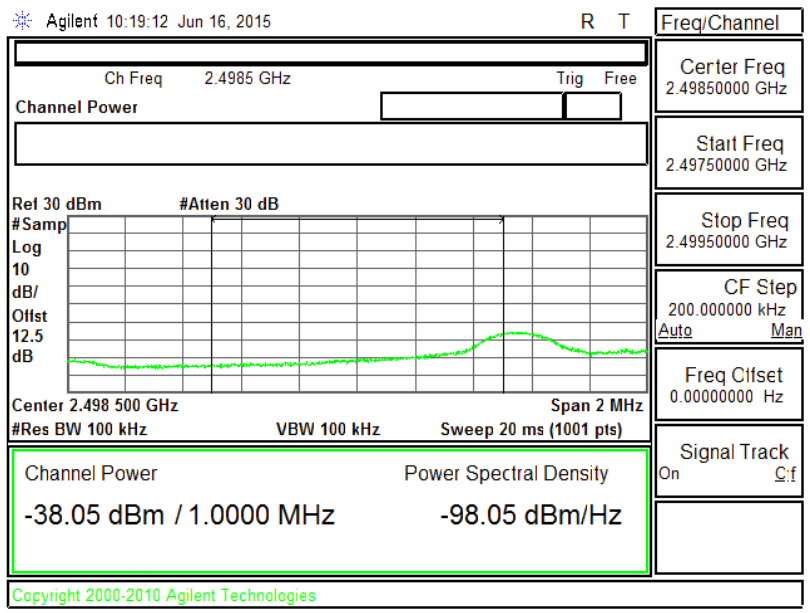
LOW CH, RB50-0



LOW CH, LOW SIDE, (RB=VB= 1%EBW, 2498–2499MHz)



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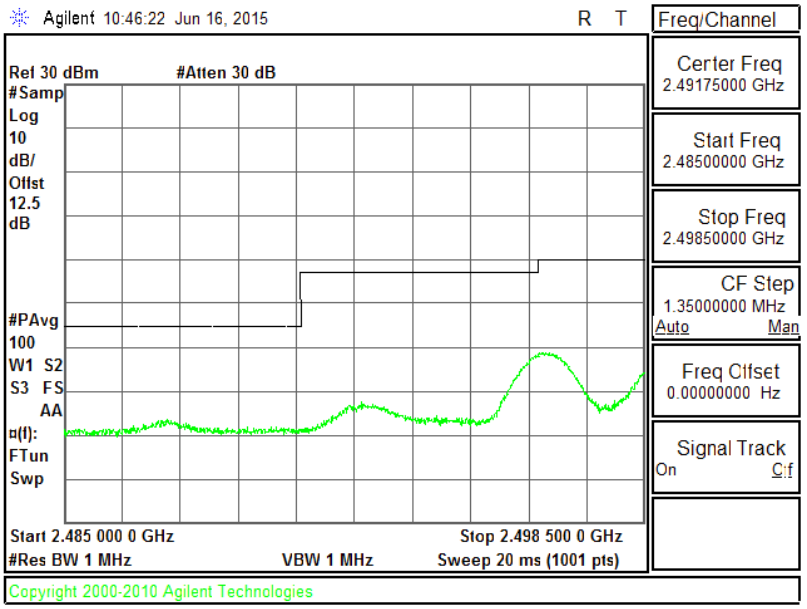
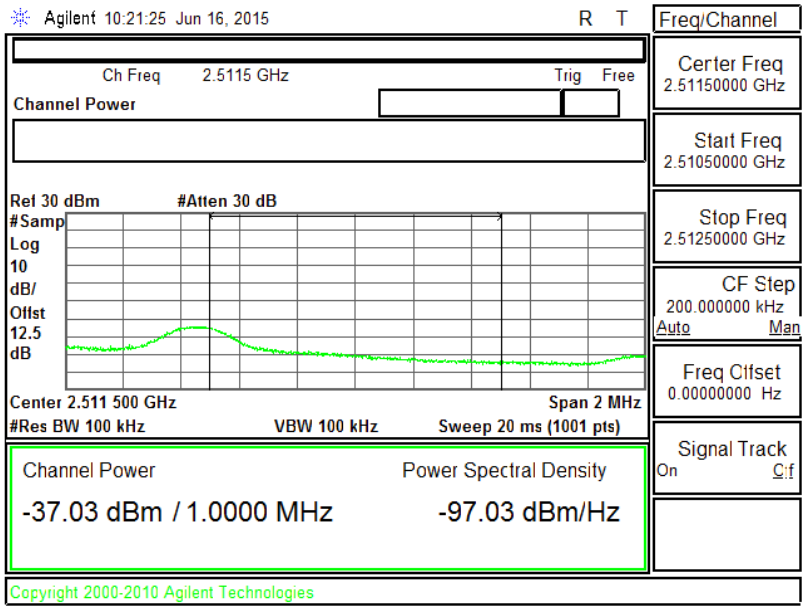
LOW CH, LOW SIDE, (RB=VB= 1MHz, 2485-2498.5MHz)



LOW CH, HIGH SIDE, (RB=VB= 1%EBW, 2511-2512MHz)



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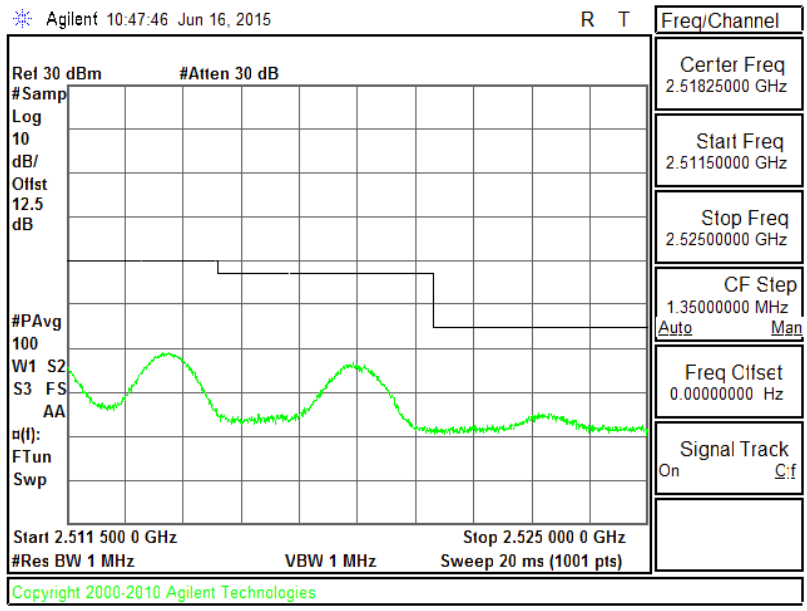
LOW CH, HIGH SIDE, (RB=VB= 1MHz, 2511.5-2525MHz)



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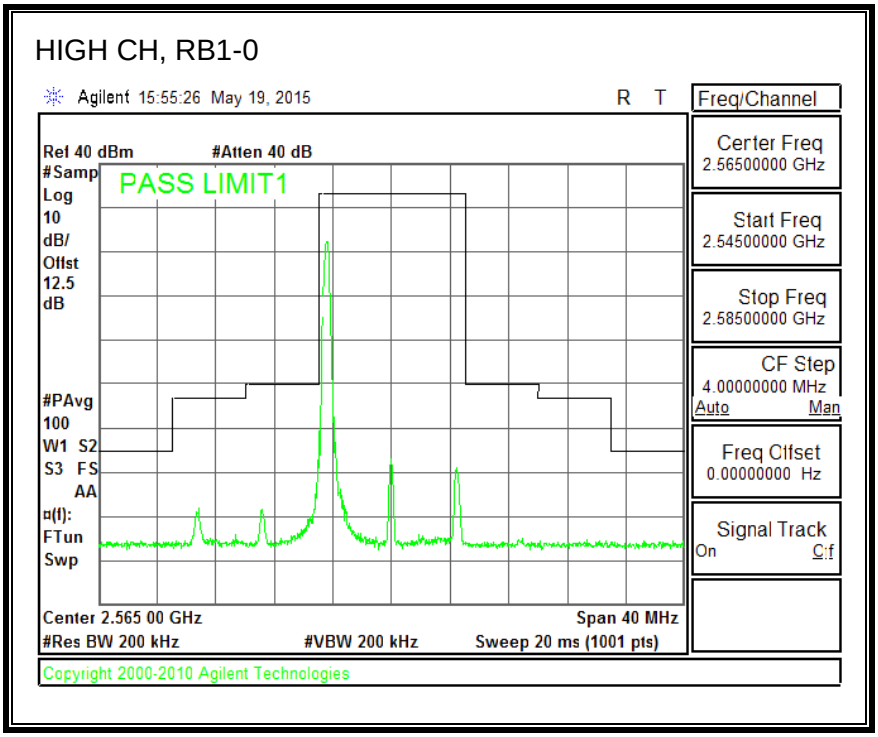
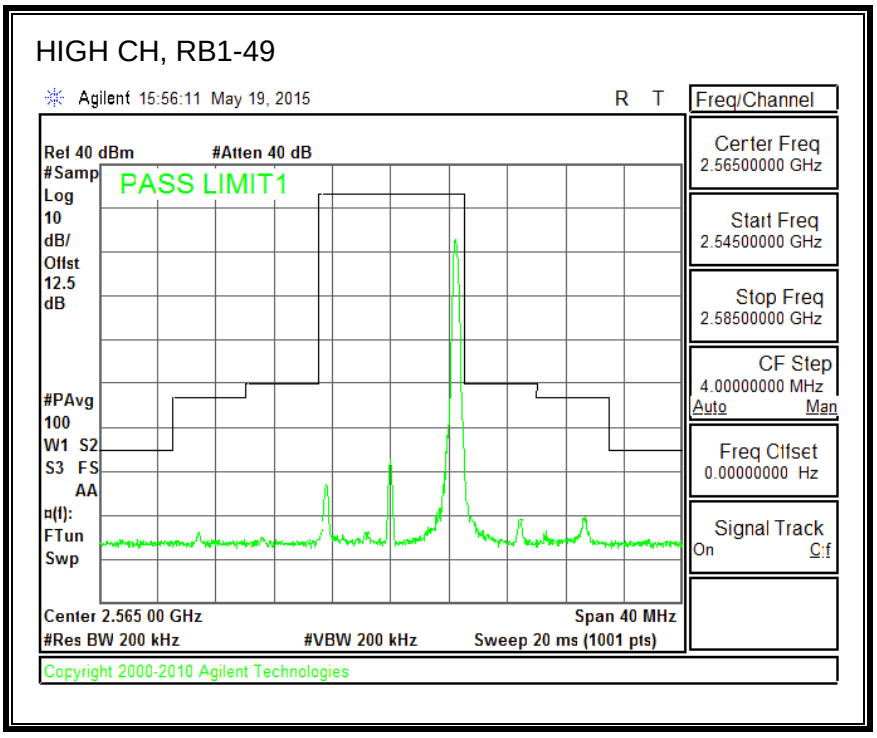
HIGH CH, RB1-0



HIGH CH, RB1-49



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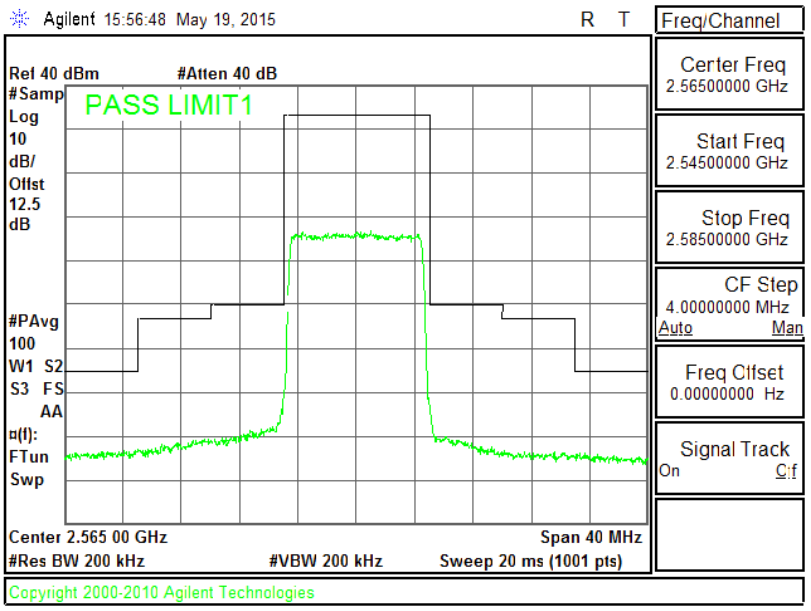
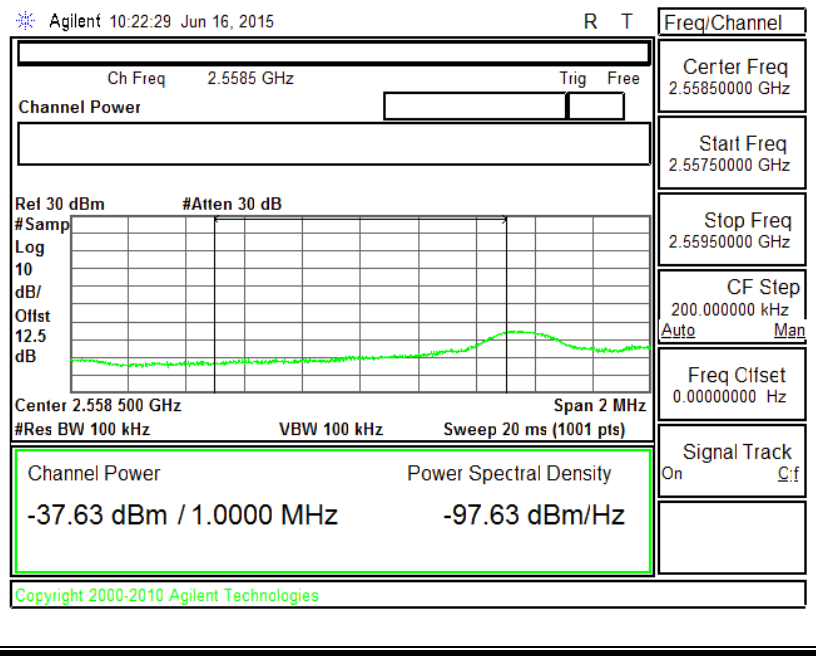
HIGH CH, RB50-0



HIGH CH, LOW SIDE, (RB=VB= 1%EBW, 2558-2559MHz)



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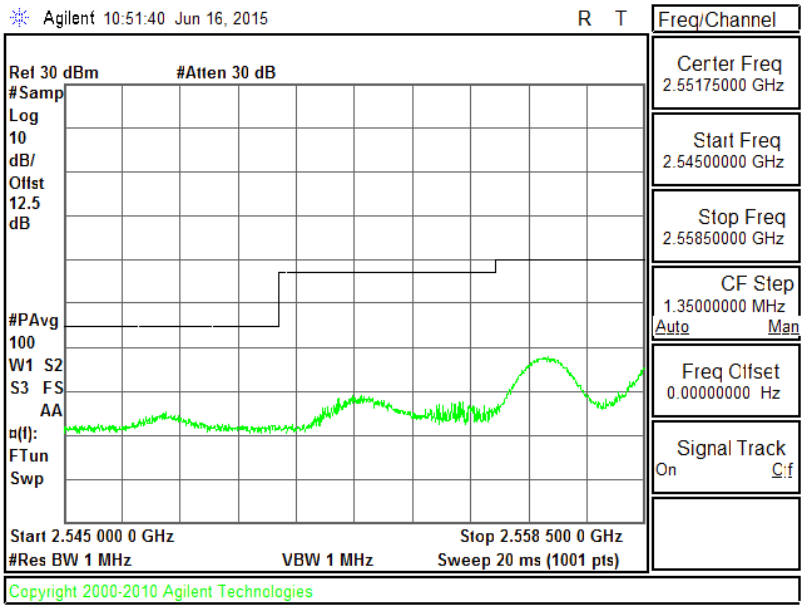
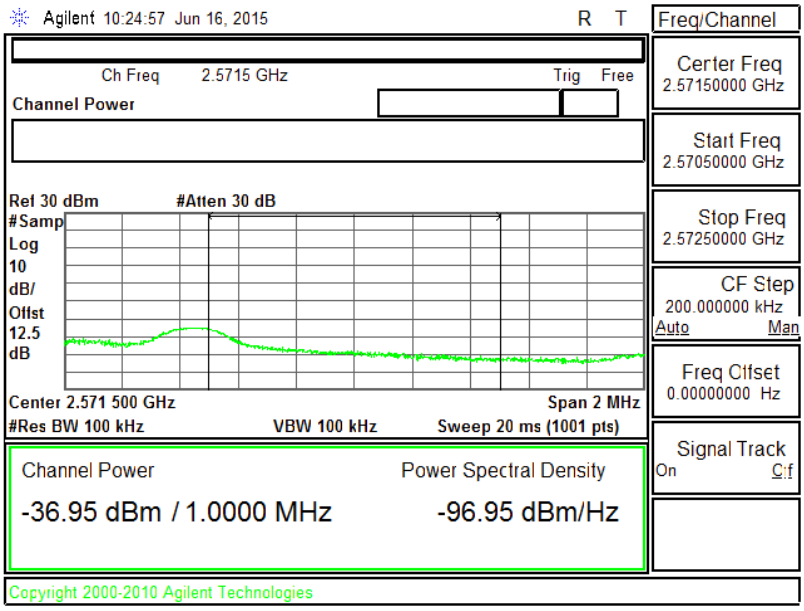
HIGH CH, LOW SIDE, (RB=VB= 1MHz, 2545-2558.5MHz)



HIGH CH, HIGH SIDE, (RB=VB= 1%EBW, 2571-2572MHz)



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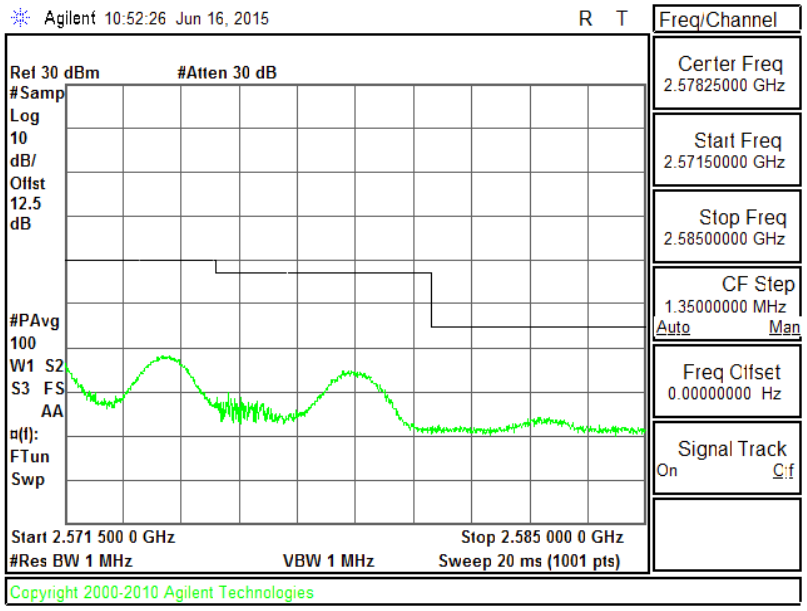
HIGH CH, HIGH SIDE, (RB=VB= 1MHz, 2571.5–2585MHz)



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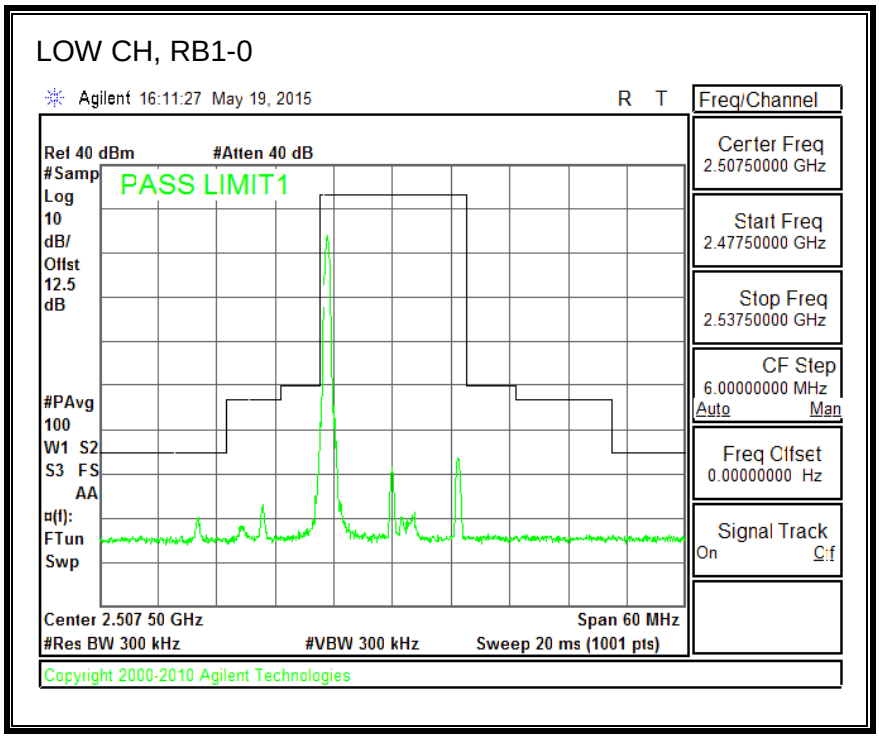
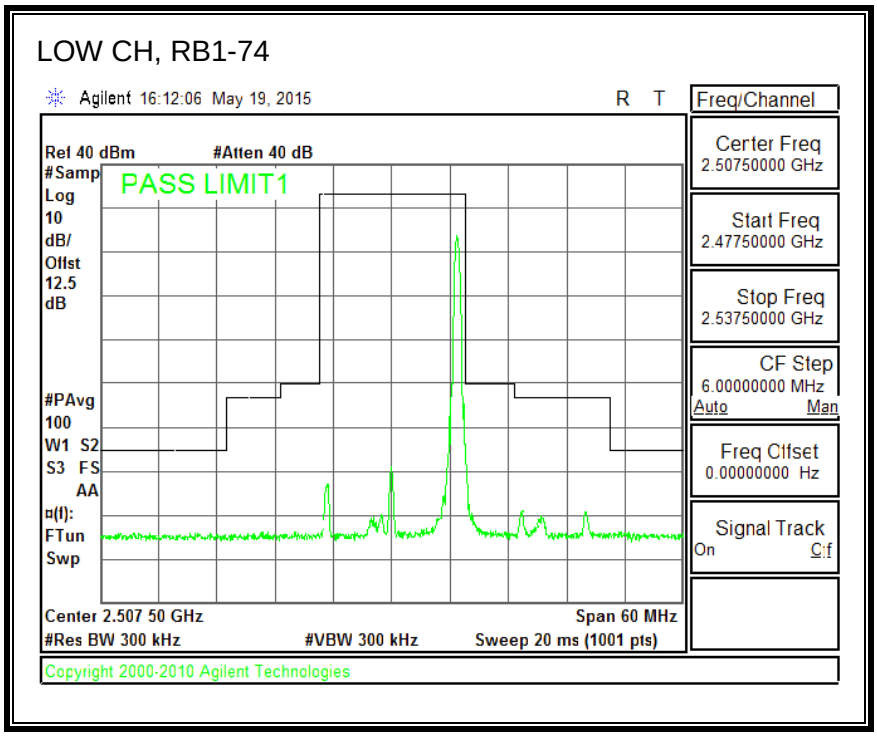
QPSK, (15.0 MHz BAND WIDTH)

LOW CH, RB1-0



LOW CH, RB1-74



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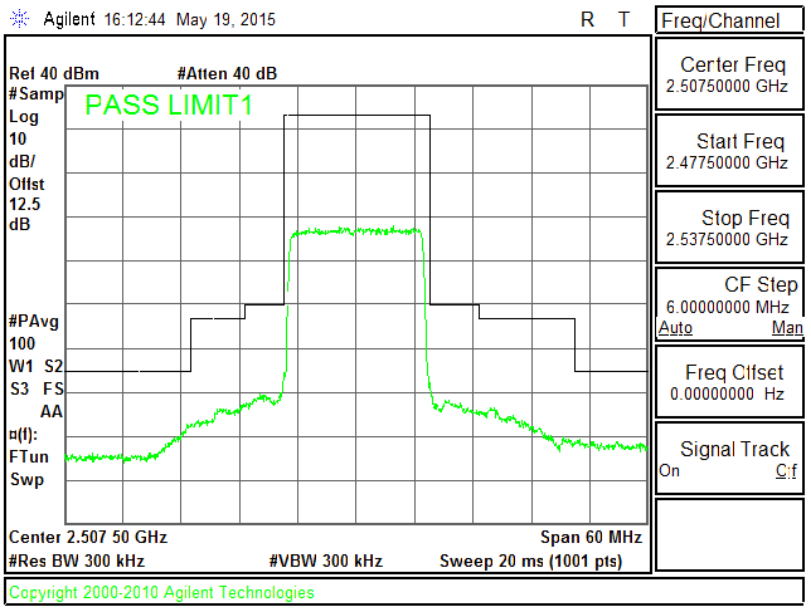
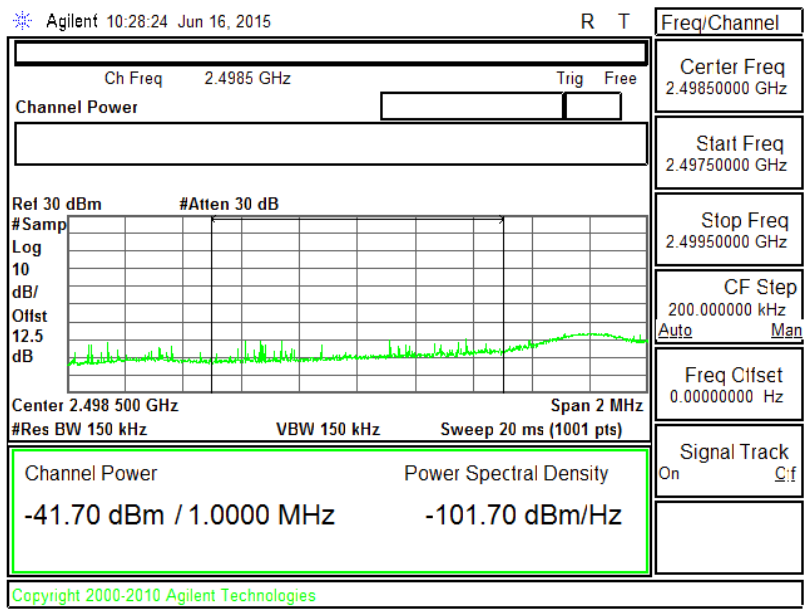
LOW CH, RB75-0



LOW CH, LOW SIDE, (RB=VB= 1%EBW, 2498–2499MHz)



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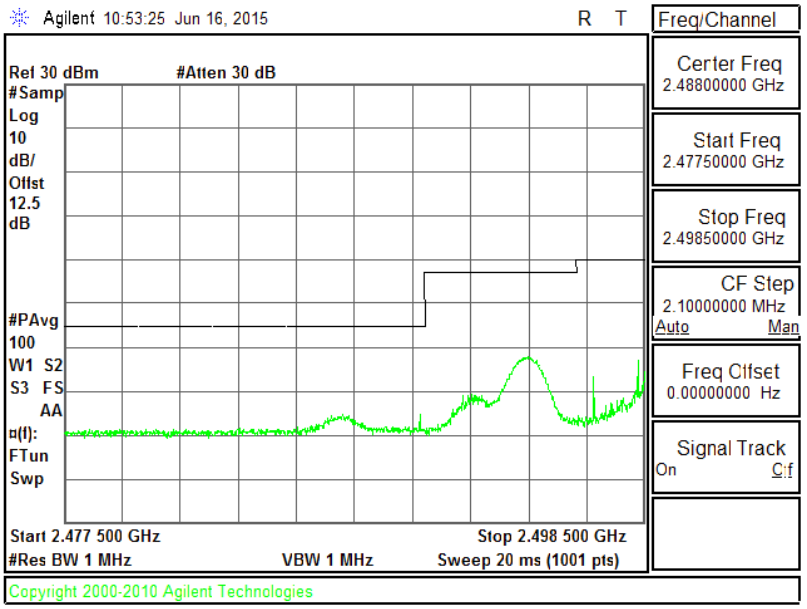
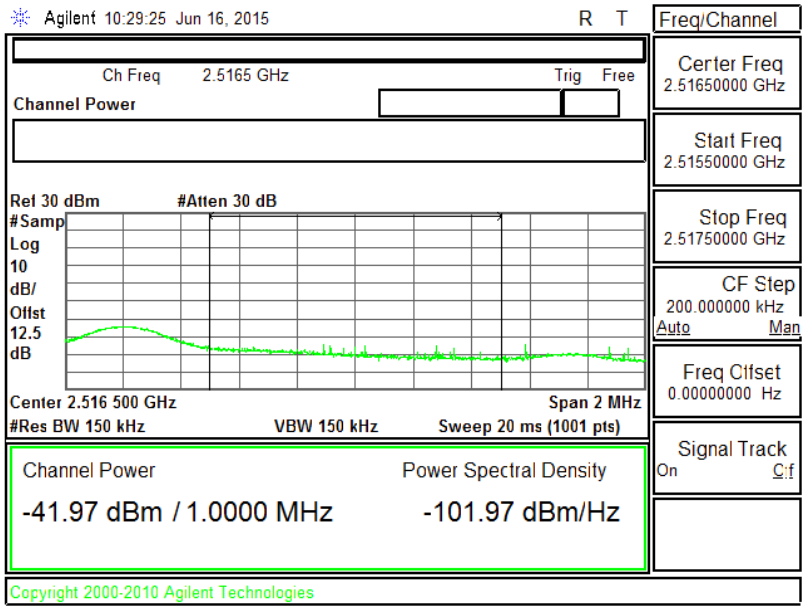
LOW CH, LOW SIDE, (RB=VB= 1MHz, 2477.5-2498.5MHz)



LOW CH, HIGH SIDE, (RB=VB= 1%EBW, 2516-2517MHz)



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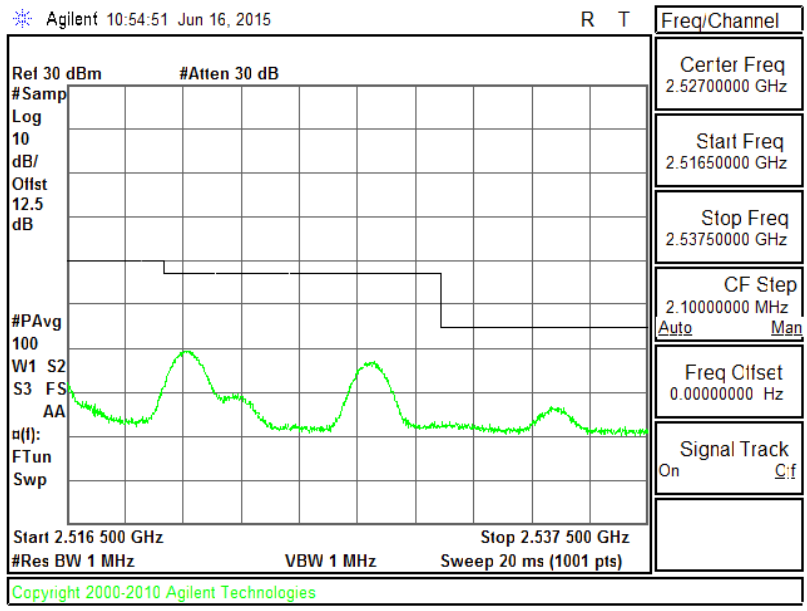
LOW CH, HIGH SIDE, (RB=VB= 1MHz, 2516.5-2537.5MHz)



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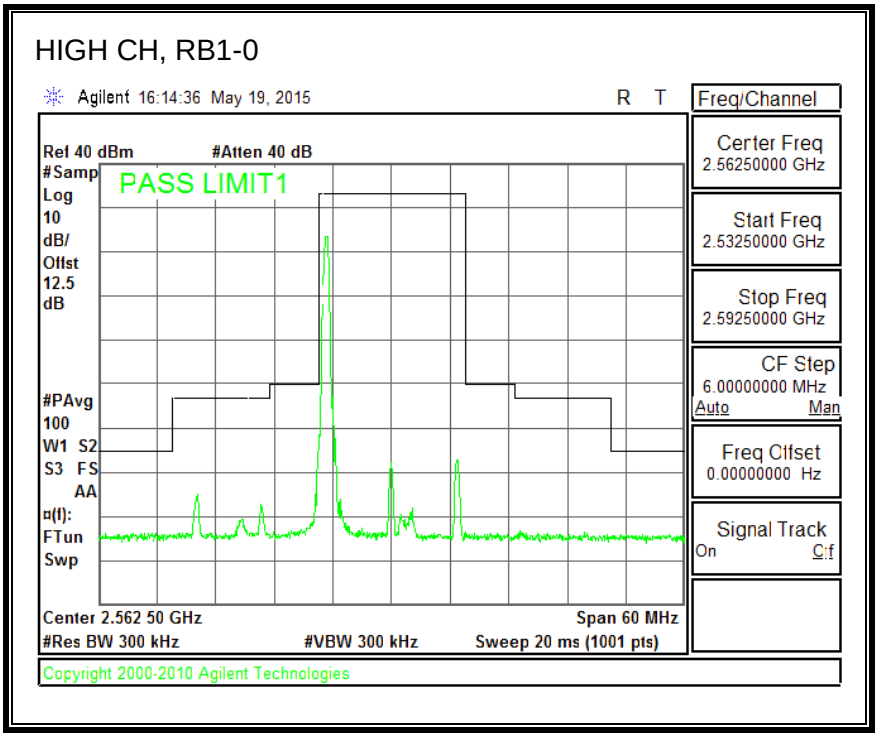
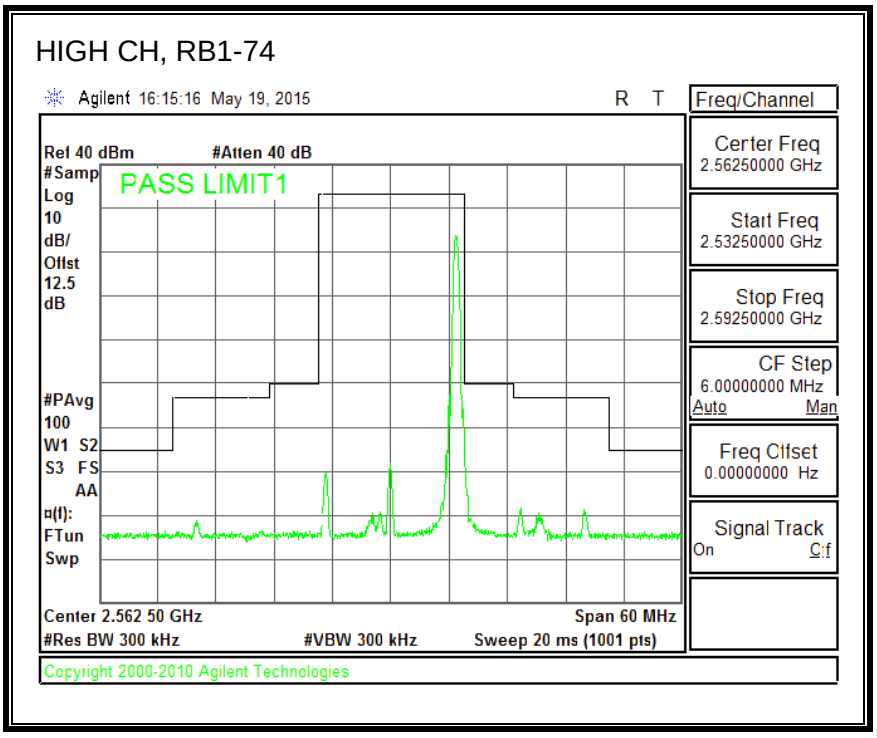
HIGH CH, RB1-0



HIGH CH, RB1-74



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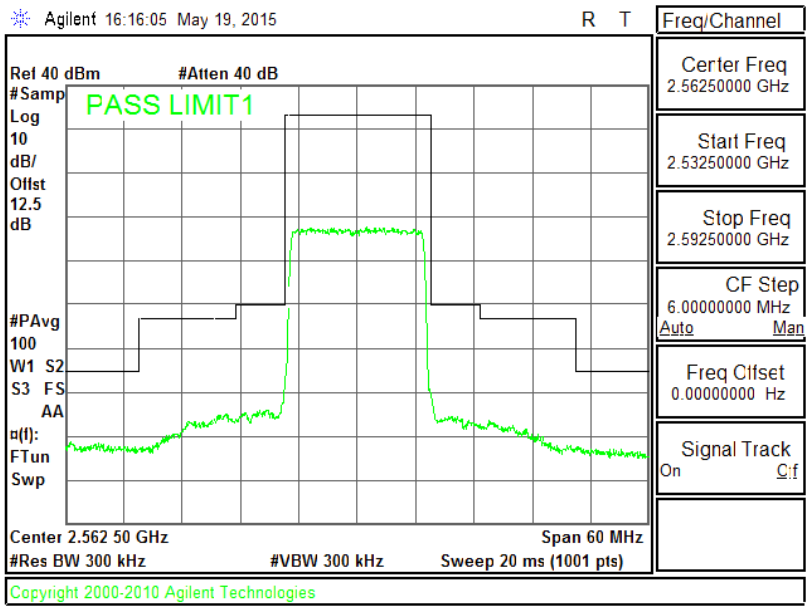
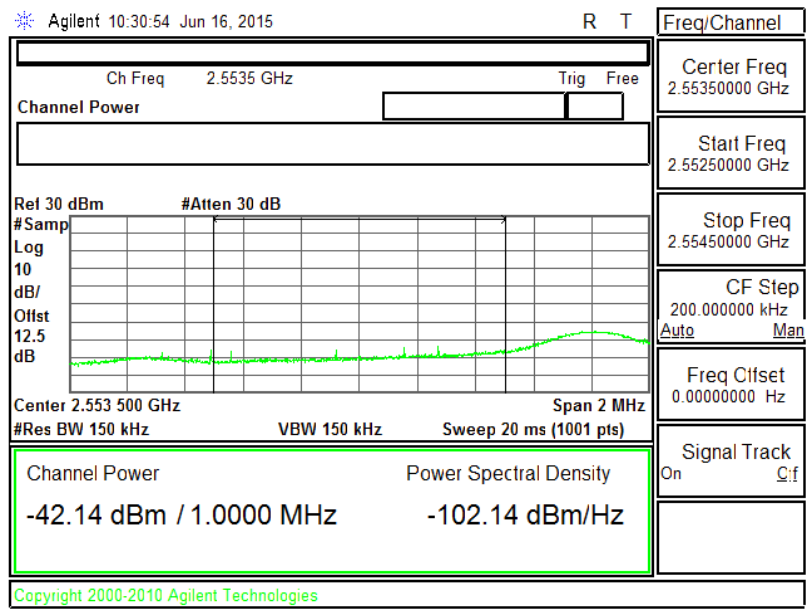
HIGH CH, RB75-0



HIGH CH, LOW SIDE, (RB=VB= 1%EBW, 2553-2554MHz)



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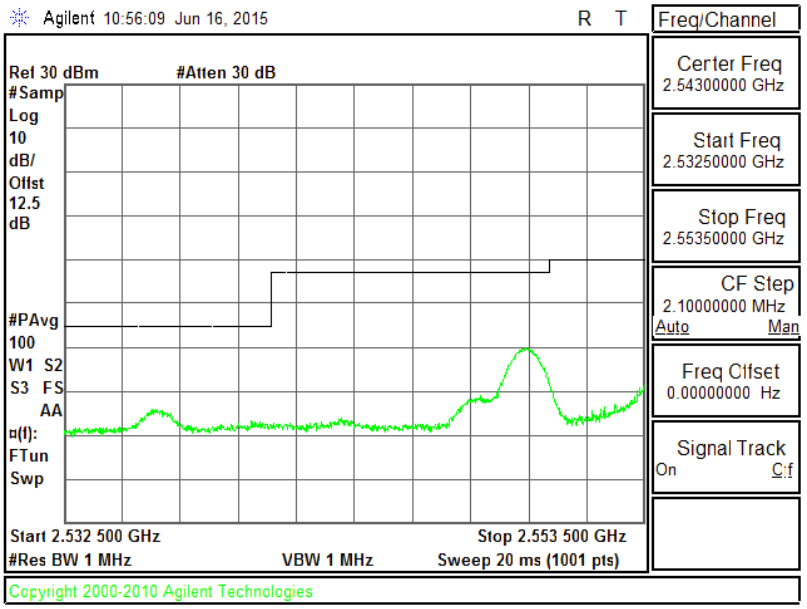
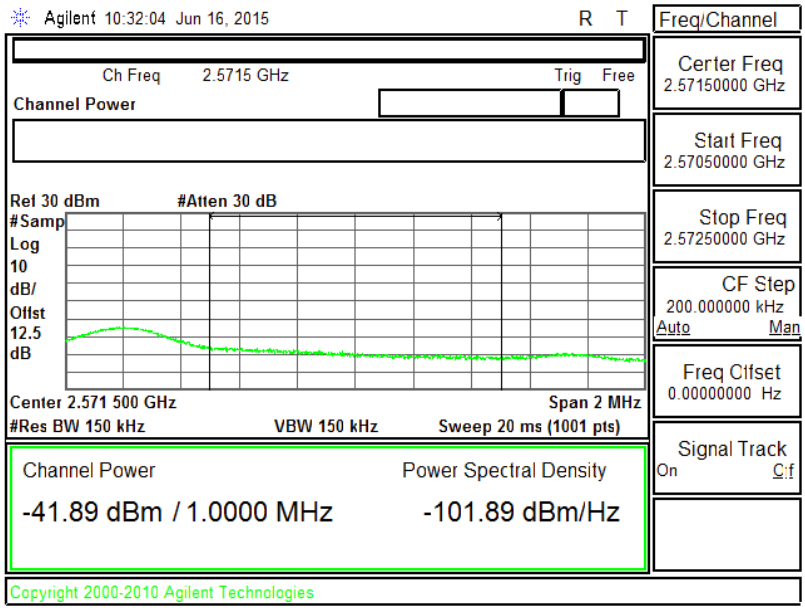
HIGH CH, LOW SIDE, (RB=VB= 1MHz, 2532.5-2553.5MHz)



HIGH CH, HIGH SIDE, (RB=VB= 1%EBW, 2571-2572MHz)



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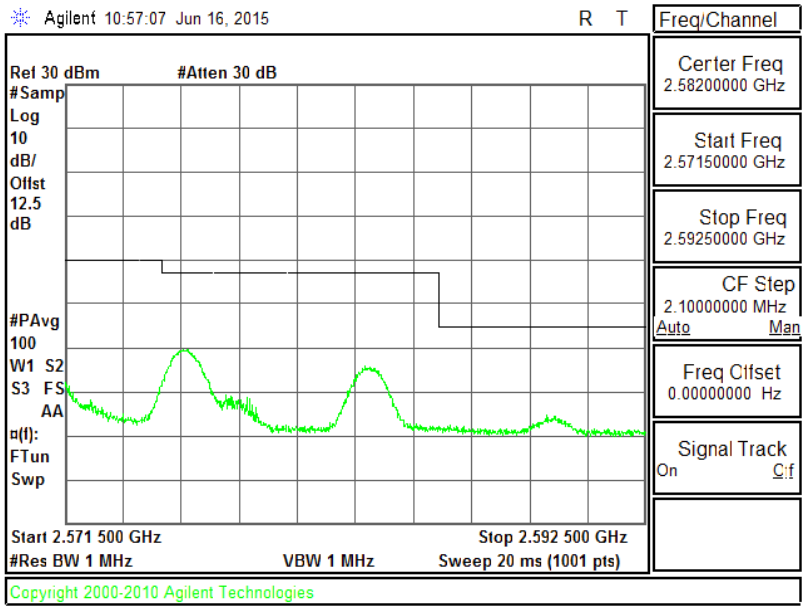
HIGH CH, HIGH SIDE, (RB=VB= 1MHz, 2571.5–2592.5MHz)



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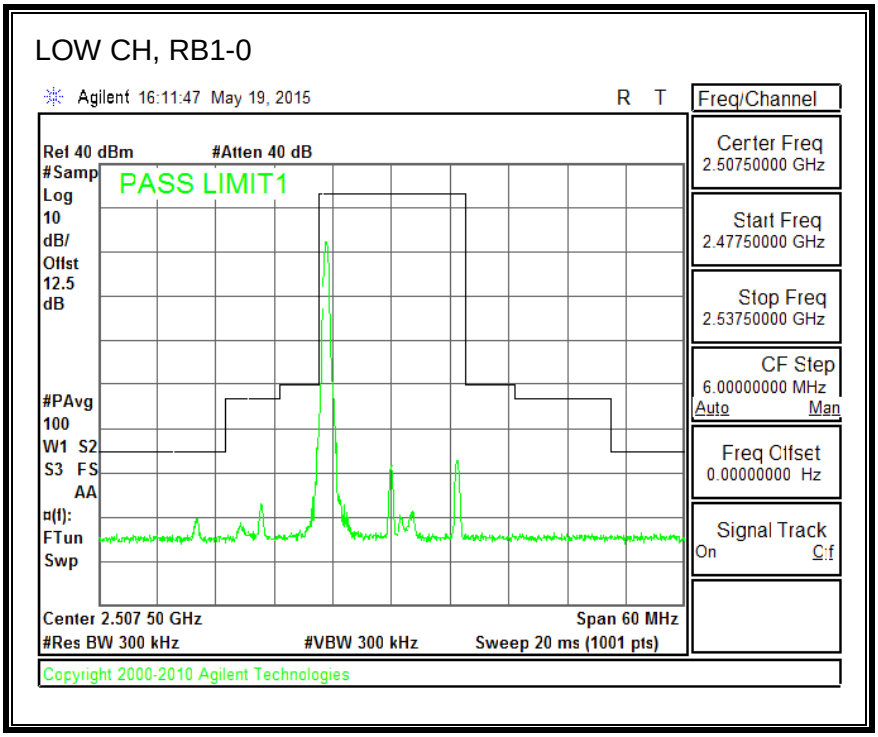
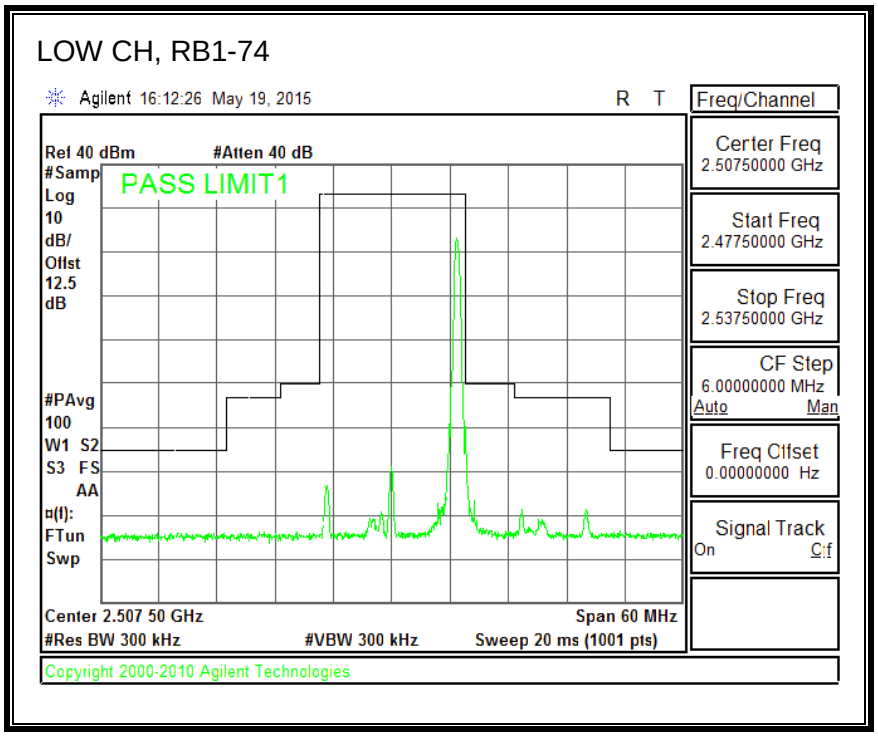
16QAM, (15.0 MHz BAND WIDTH)

LOW CH, RB1-0



LOW CH, RB1-74



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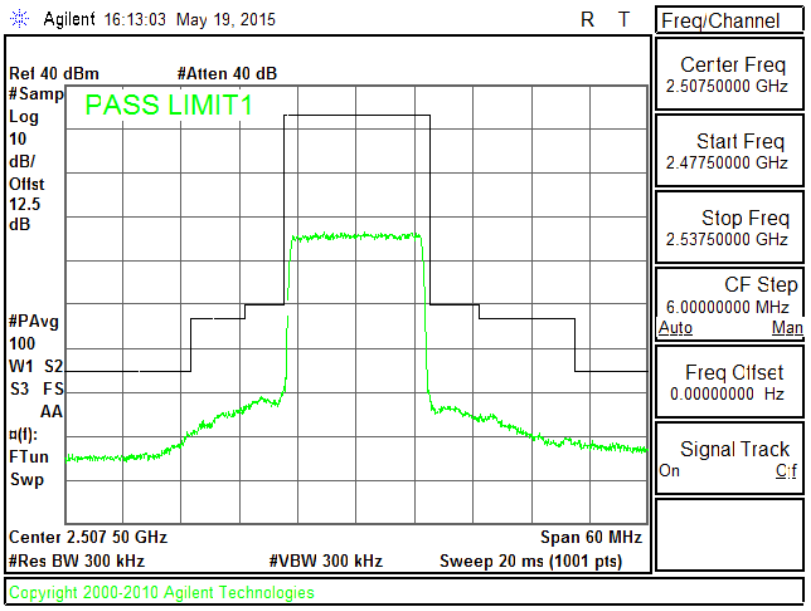
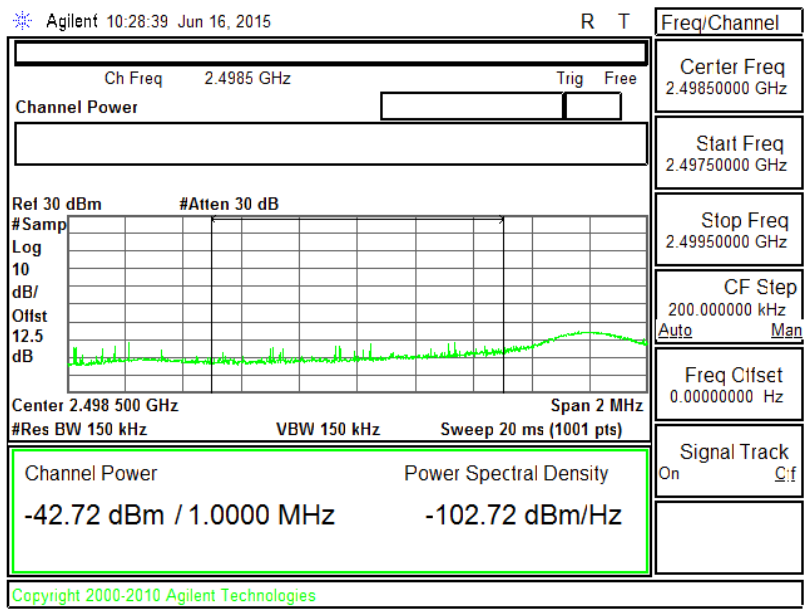
LOW CH, RB75-0



LOW CH, LOW SIDE, (RB=VB= 1%EBW, 2498–2499MHz)



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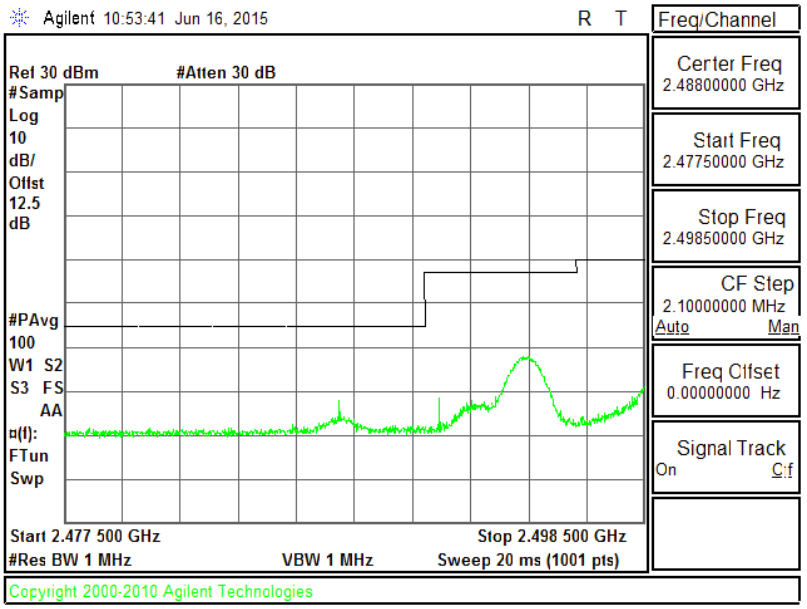
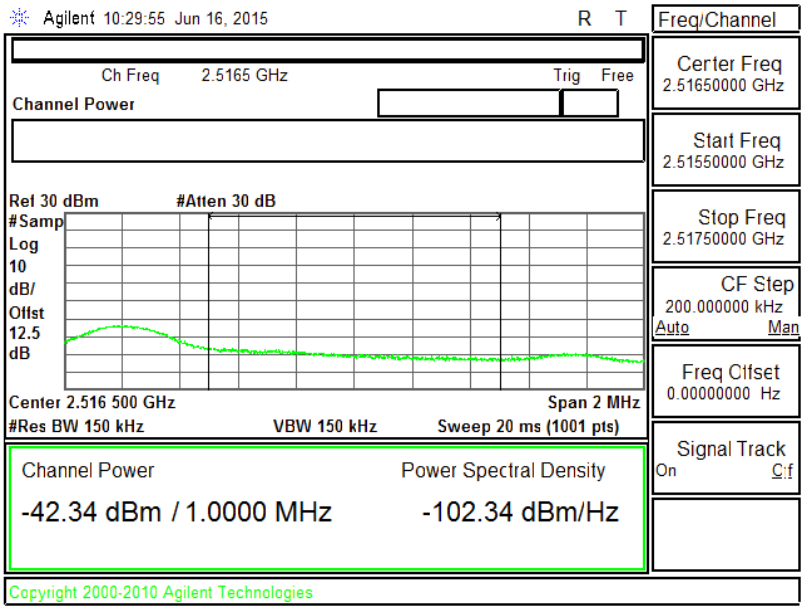
LOW CH, LOW SIDE, (RB=VB= 1MHz, 2477.5-2498.5MHz)



LOW CH, HIGH SIDE, (RB=VB= 1%EBW, 2516-2517MHz)



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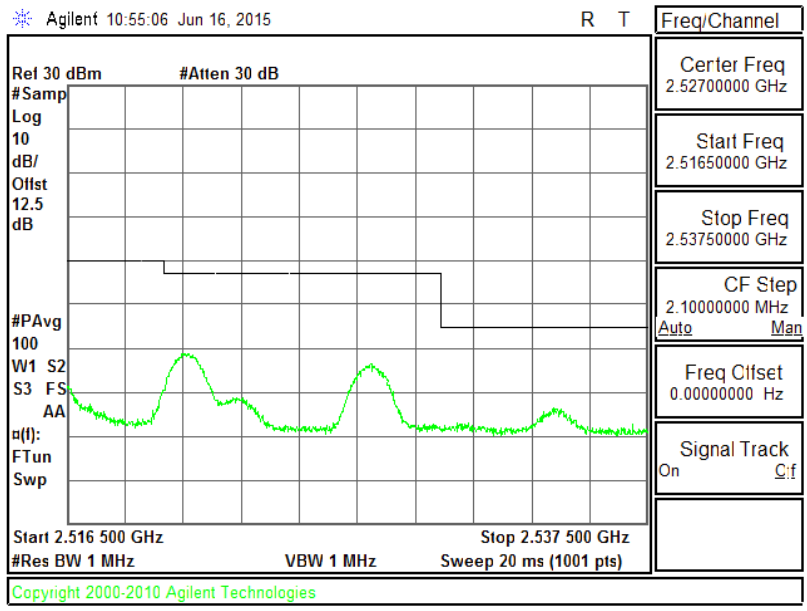
LOW CH, HIGH SIDE, (RB=VB= 1MHz, 2516.5-2537.5MHz)



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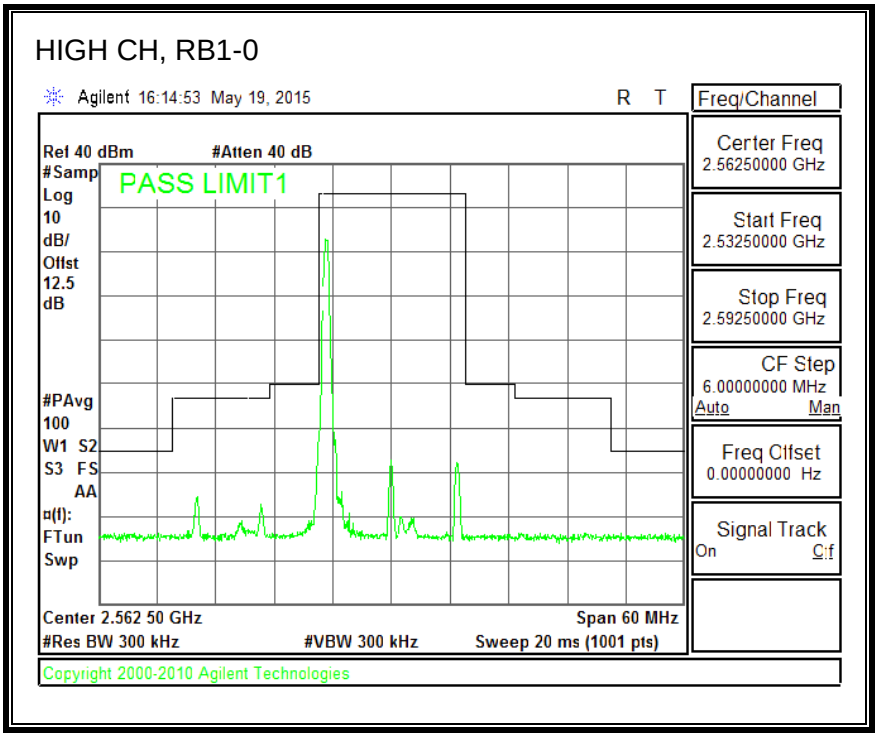
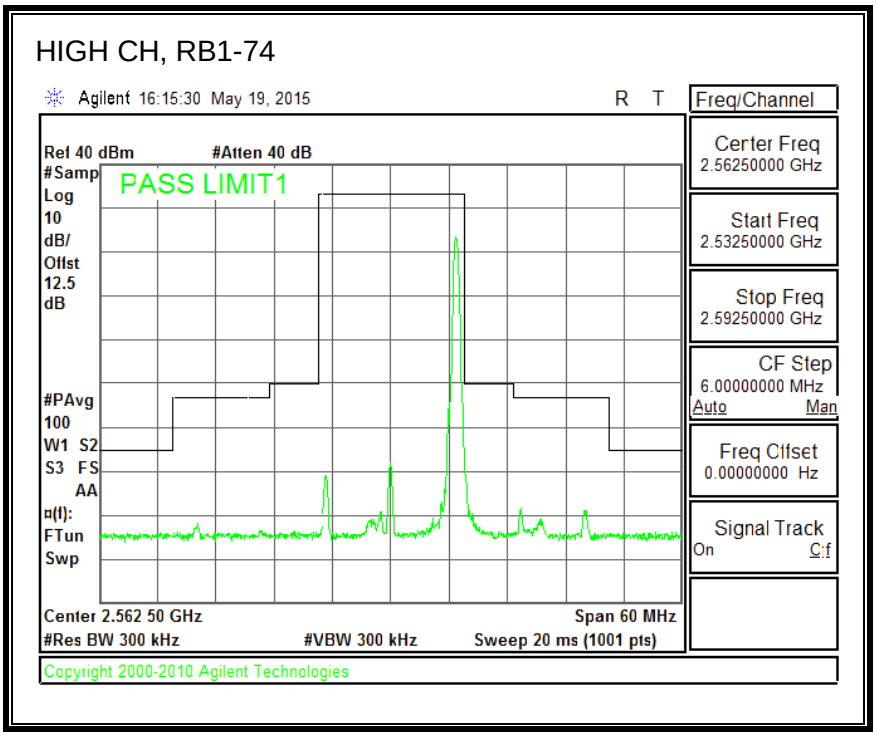
HIGH CH, RB1-0



HIGH CH, RB1-74



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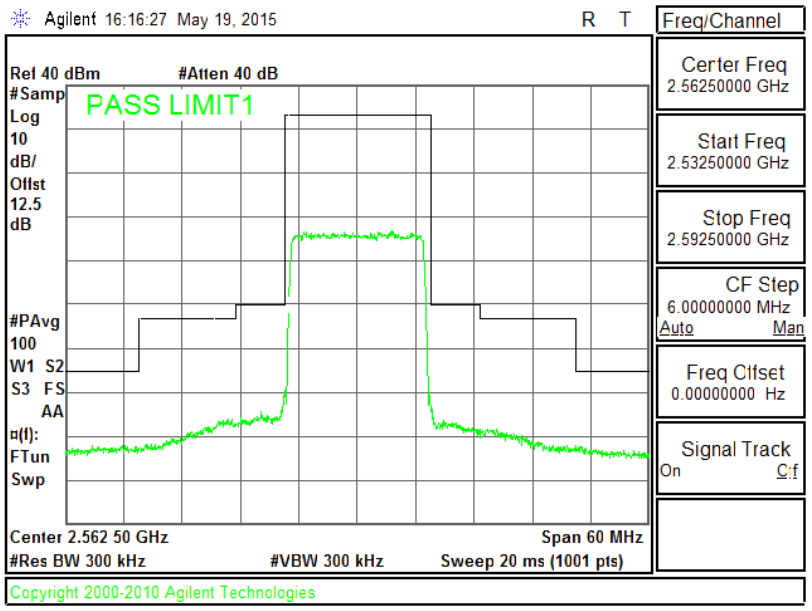
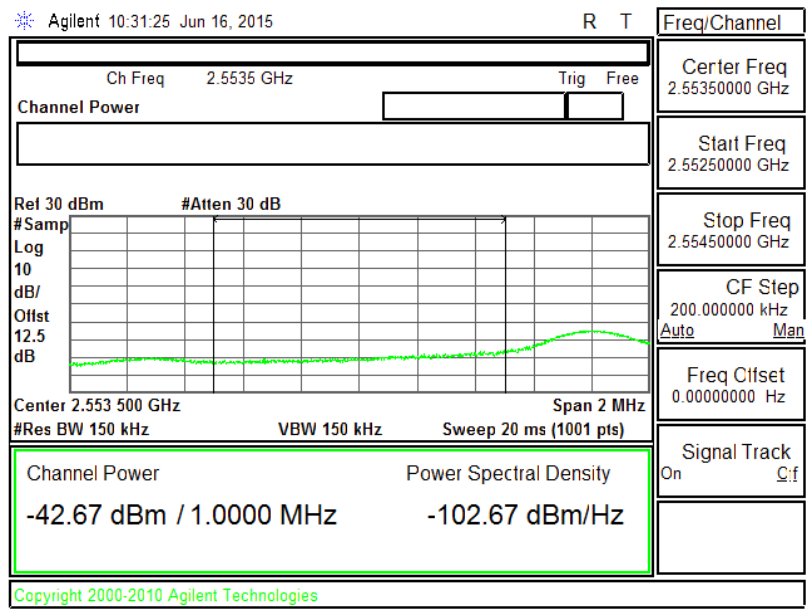
HIGH CH, RB75-0



HIGH CH, LOW SIDE, (RB=VB= 1%EBW, 2553-2554MHz)



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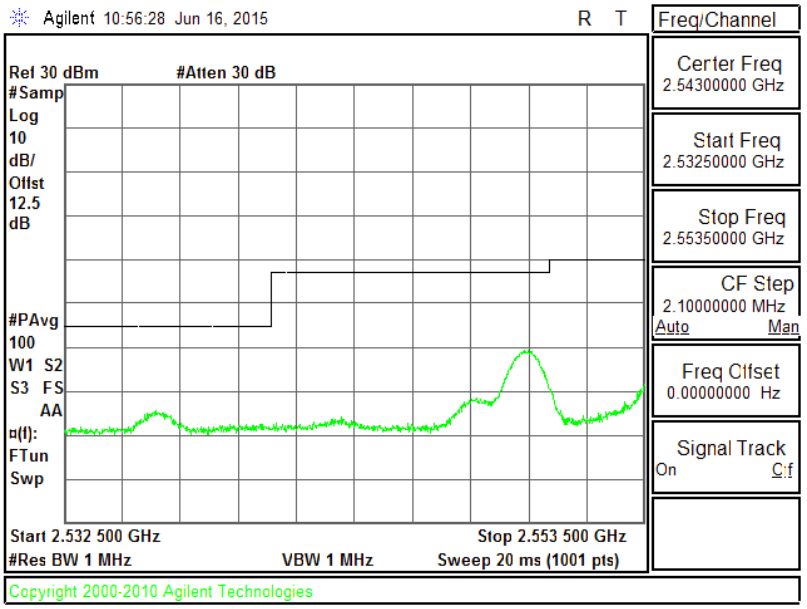
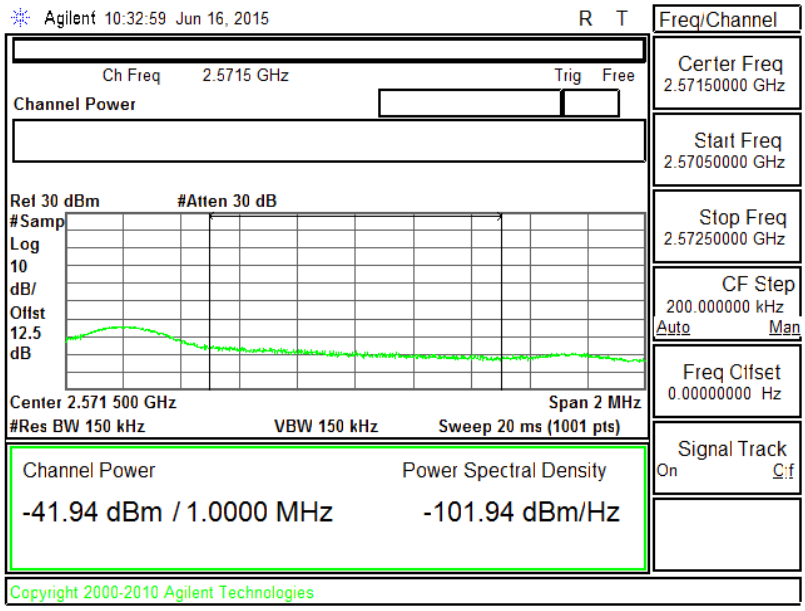
HIGH CH, LOW SIDE, (RB=VB= 1MHz, 2532.5-2553.5MHz)



HIGH CH, HIGH SIDE, (RB=VB= 1%EBW, 2571-2572MHz)



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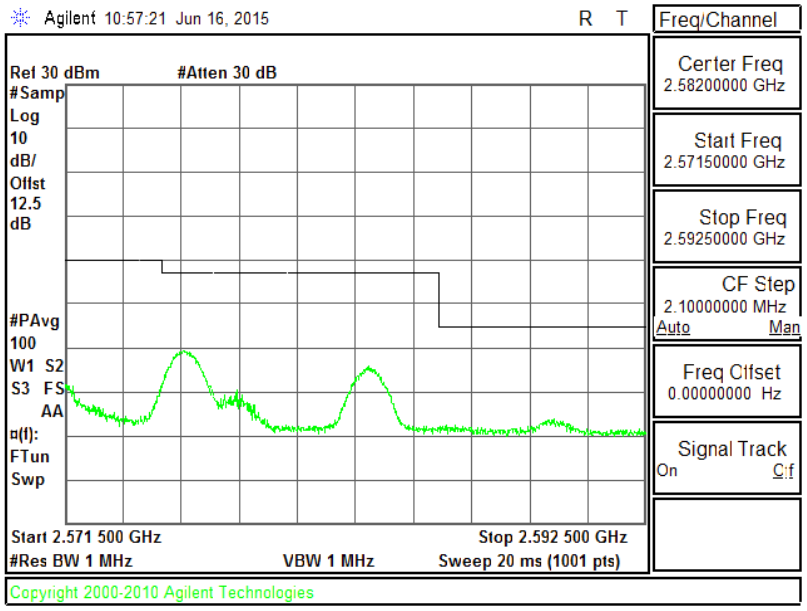
HIGH CH, HIGH SIDE, (RB=VB= 1MHz, 2571.5–2592.5MHz)



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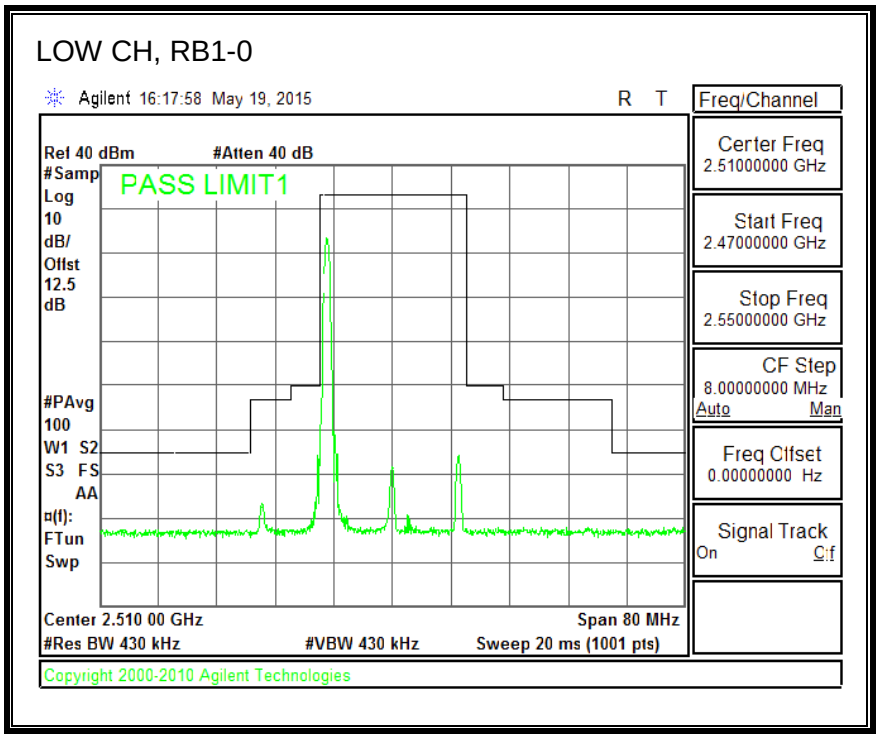
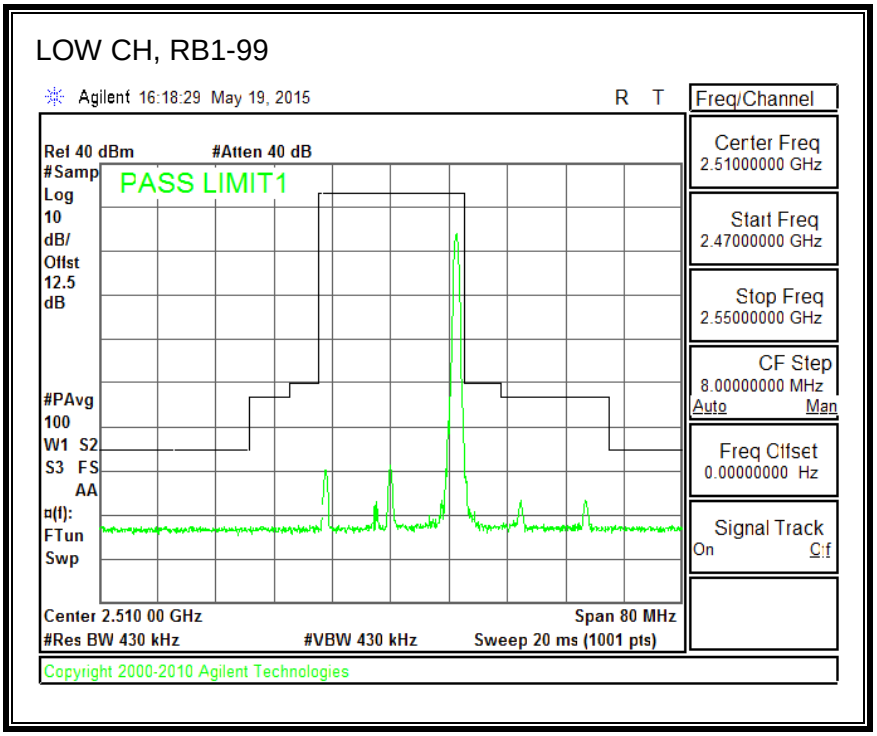
QPSK, (20.0 MHz BAND WIDTH)

LOW CH, RB1-0



LOW CH, RB1-99



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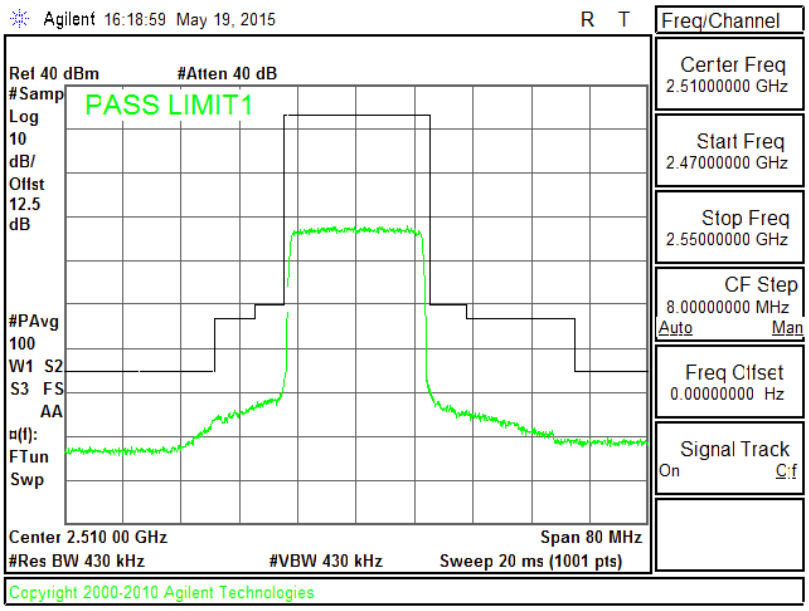
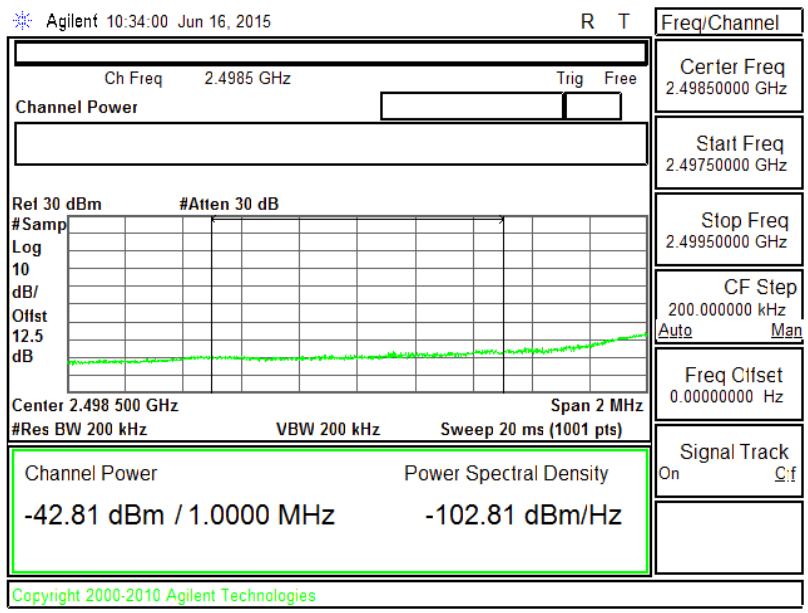
LOW CH, RB100-0



LOW CH, LOW SIDE, (RB=VB= 1%EBW, 2498–2499MHz)



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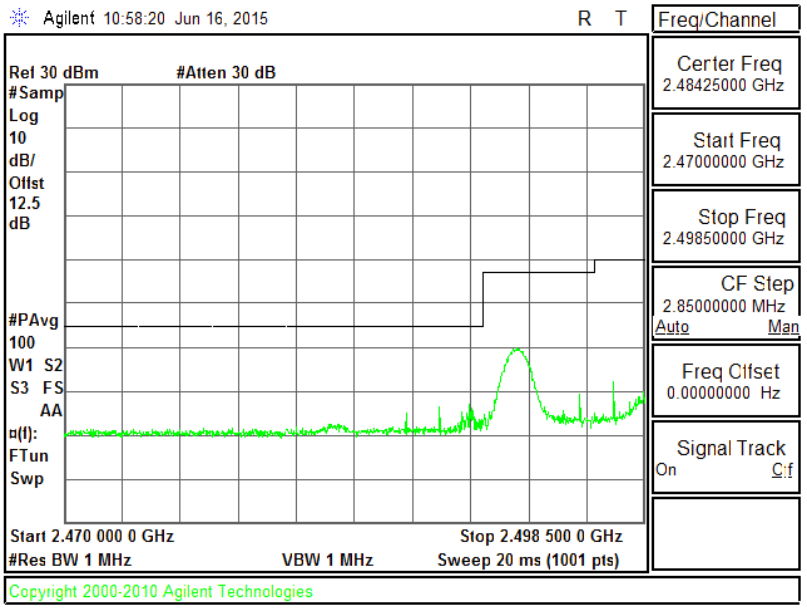
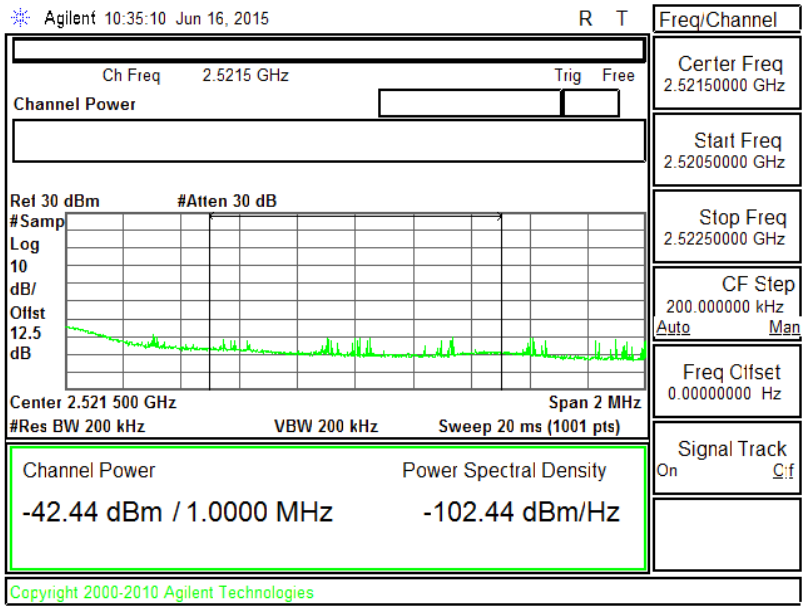
LOW CH, LOW SIDE, (RB=VB= 1MHz, 2470-2498.5MHz)



LOW CH, HIGH SIDE, (RB=VB= 1%EBW, 2521-2522MHz)



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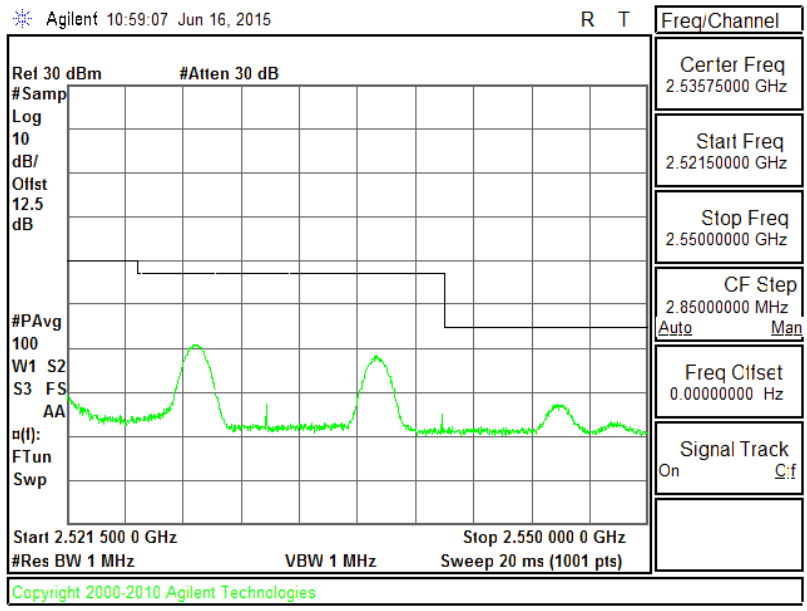
LOW CH, HIGH SIDE, (RB=VB= 1MHz, 2521.5-2550MHz)



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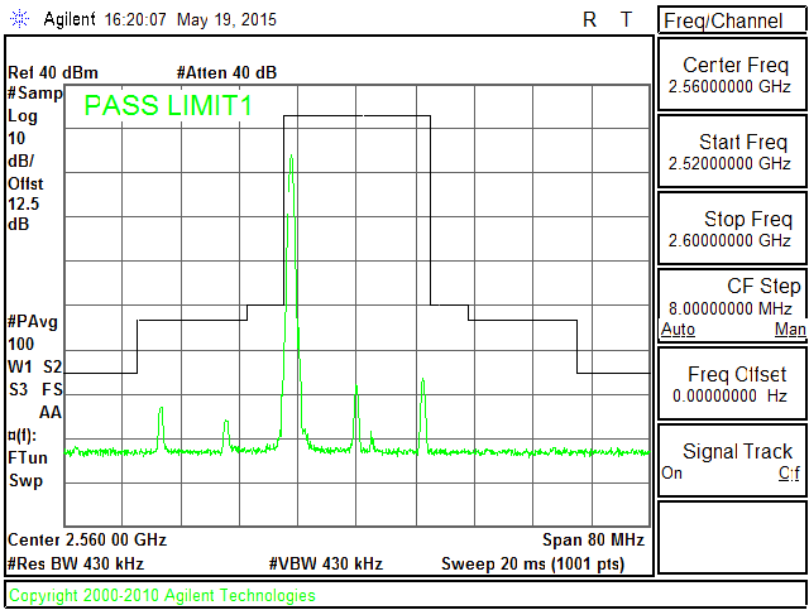
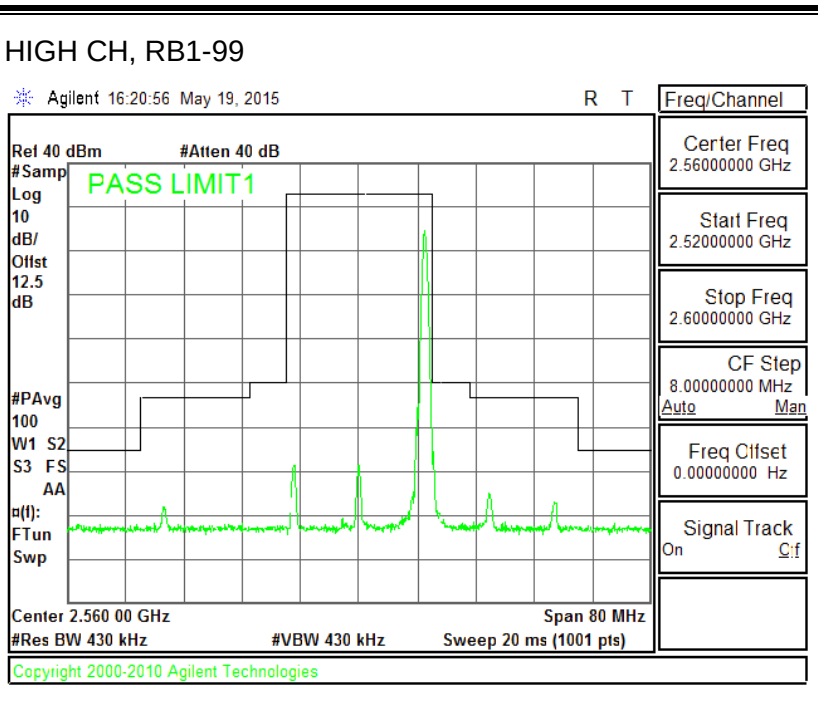
HIGH CH, RB1-0



HIGH CH, RB1-99



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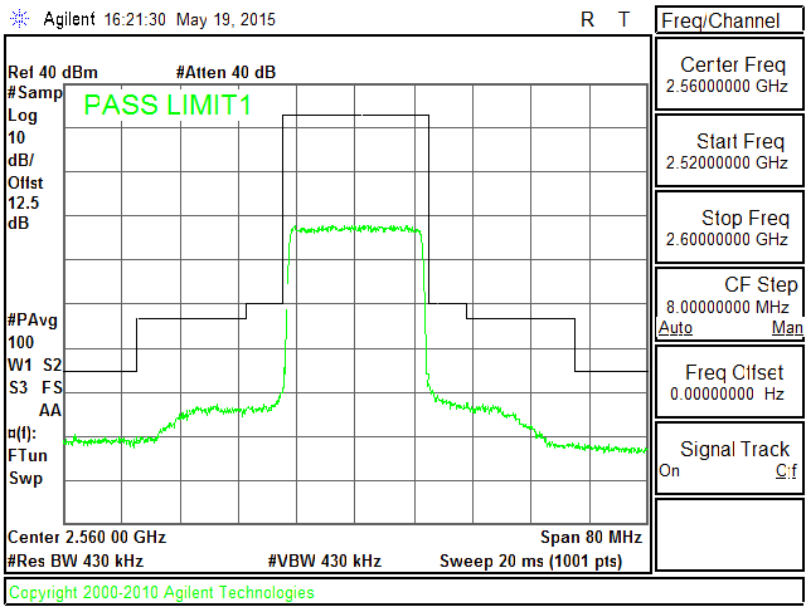
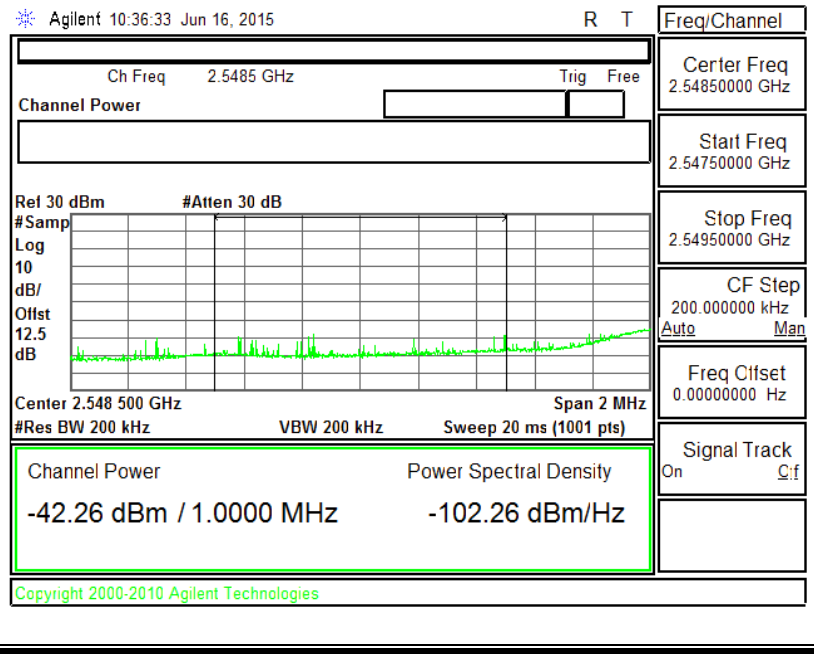
HIGH CH, RB100-0



HIGH CH, LOW SIDE, (RB=VB= 1%EBW, 2548-2549MHz)



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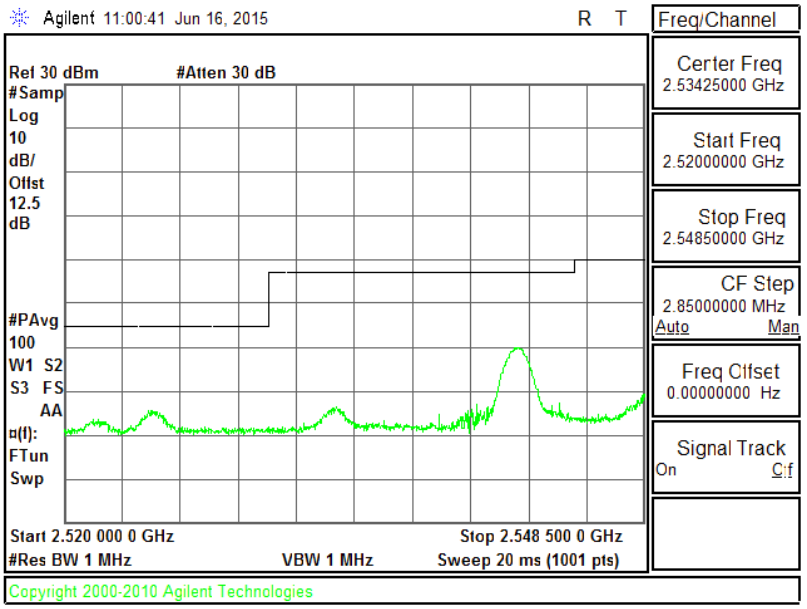
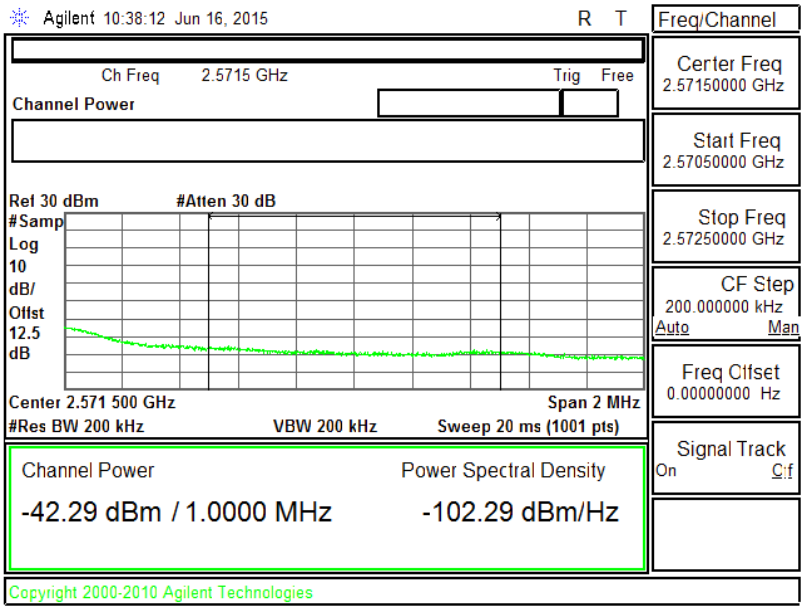
HIGH CH, LOW SIDE, (RB=VB= 1MHz, 2520-2548.5MHz)



HIGH CH, HIGH SIDE, (RB=VB= 1%EBW, 2571-2572MHz)



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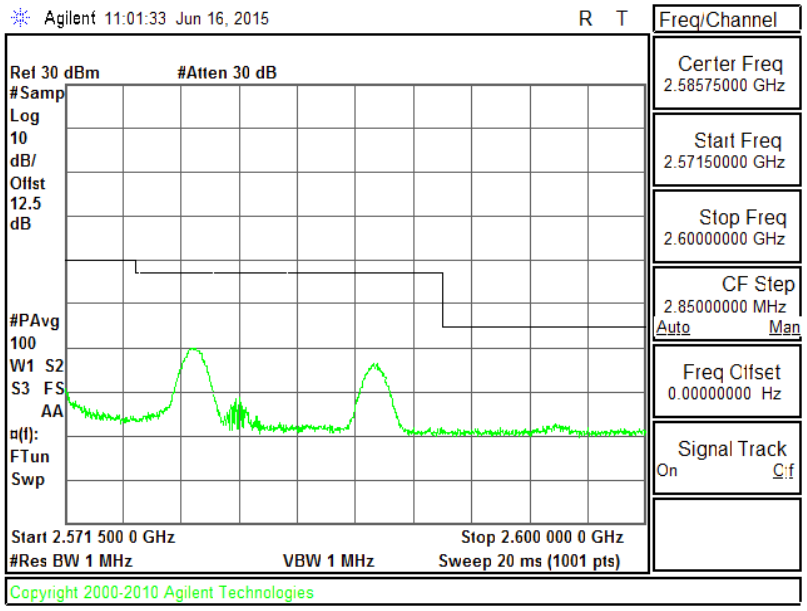
HIGH CH, HIGH SIDE, (RB=VB= 1MHz, 2571.5–2600MHz)



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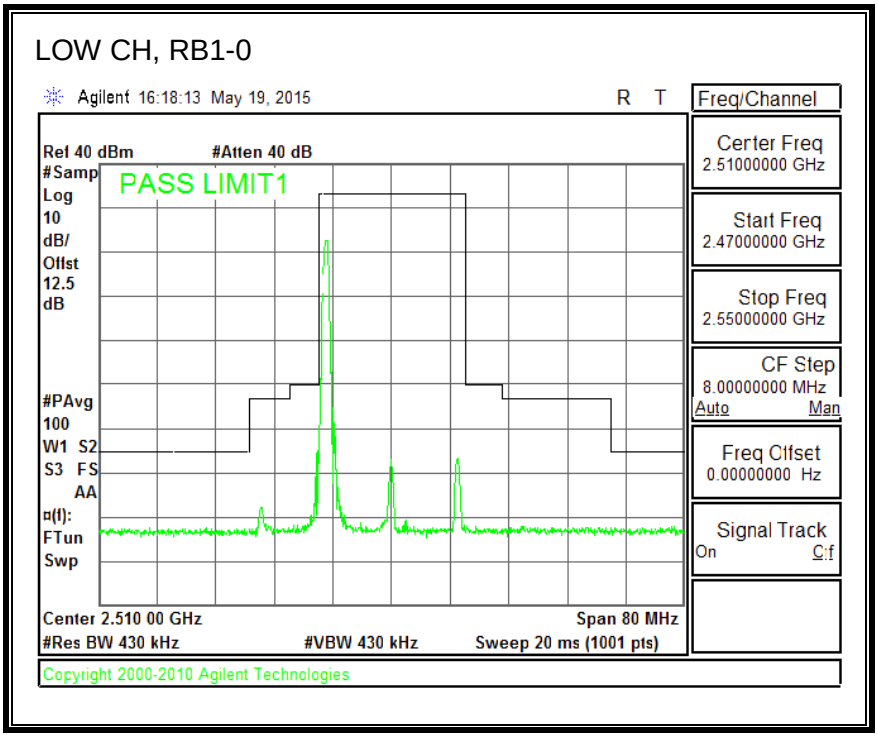
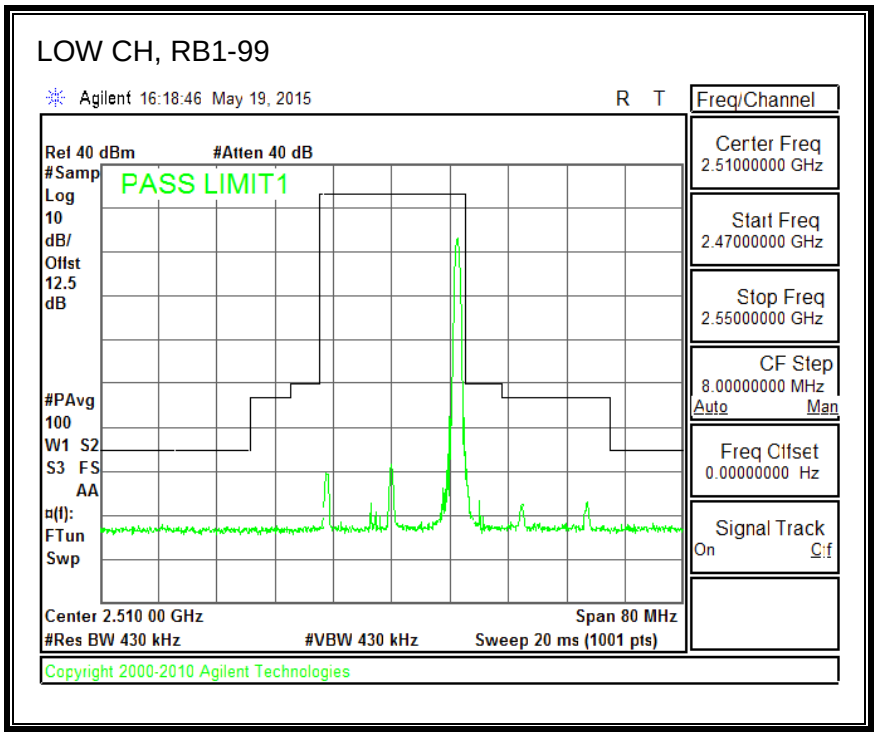
16QAM, (20.0 MHz BAND WIDTH)

LOW CH, RB1-0



LOW CH, RB1-99



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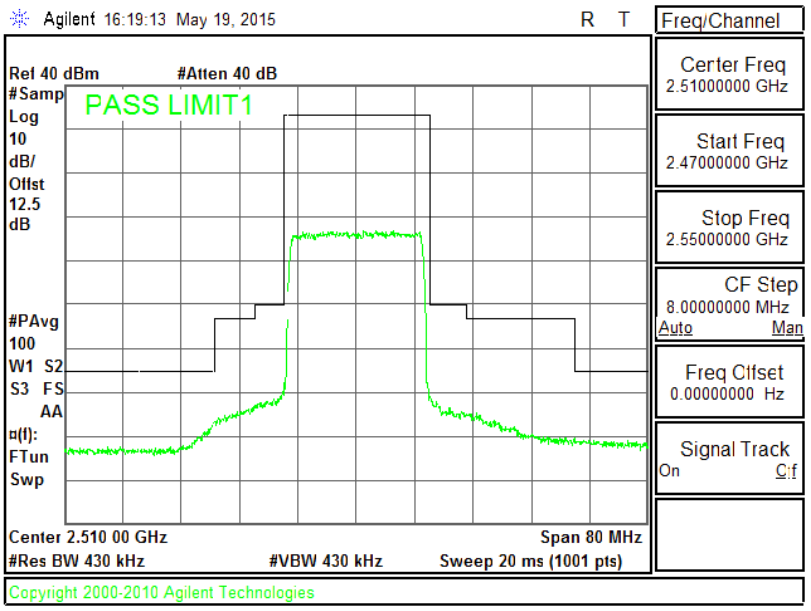
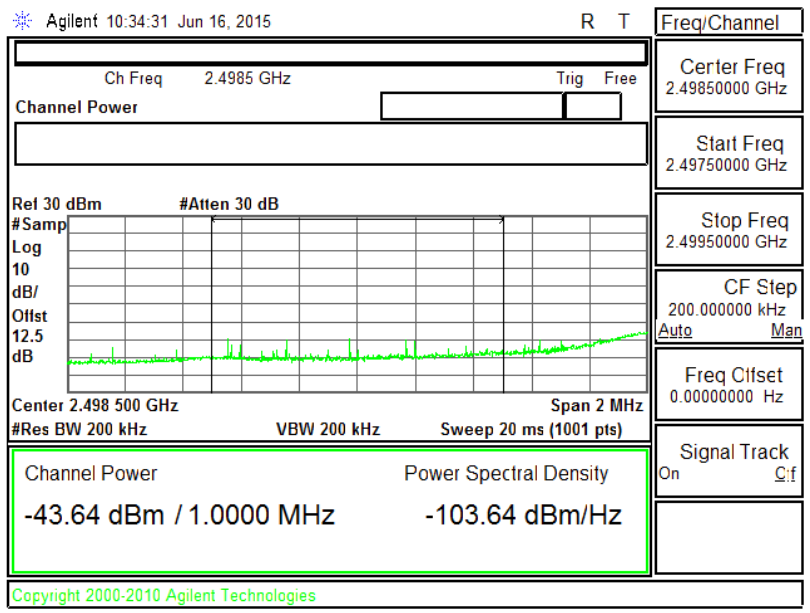
LOW CH, RB100-0



LOW CH, LOW SIDE, (RB=VB= 1%EBW, 2498–2499MHz)



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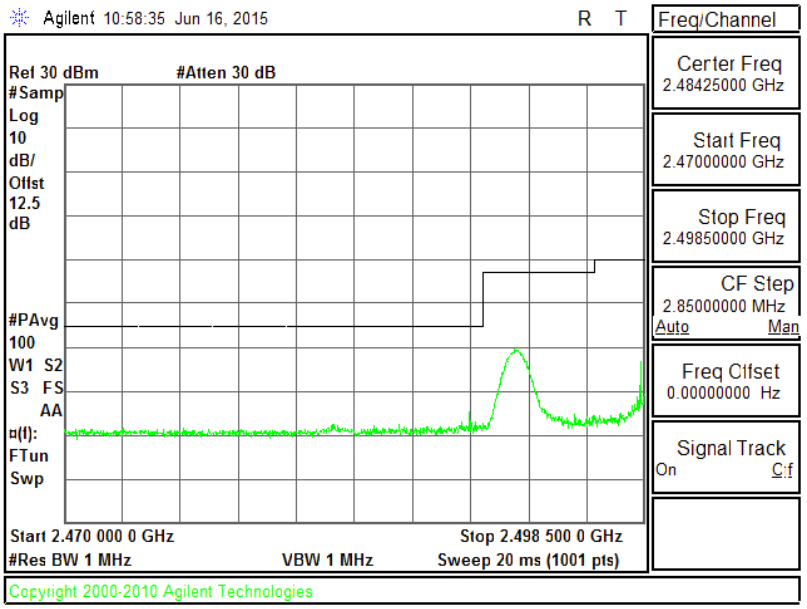
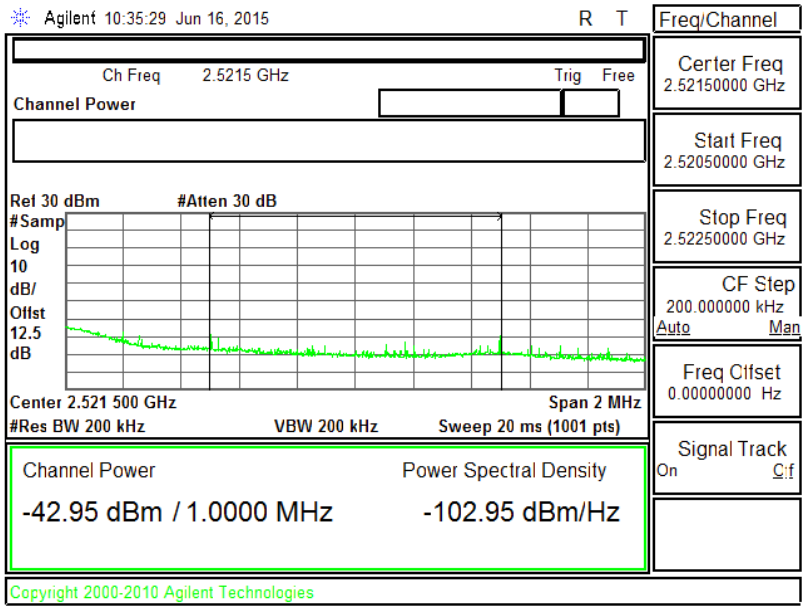
LOW CH, LOW SIDE, (RB=VB= 1MHz, 2470-2498.5MHz)



LOW CH, HIGH SIDE, (RB=VB= 1%EBW, 2521-2522MHz)



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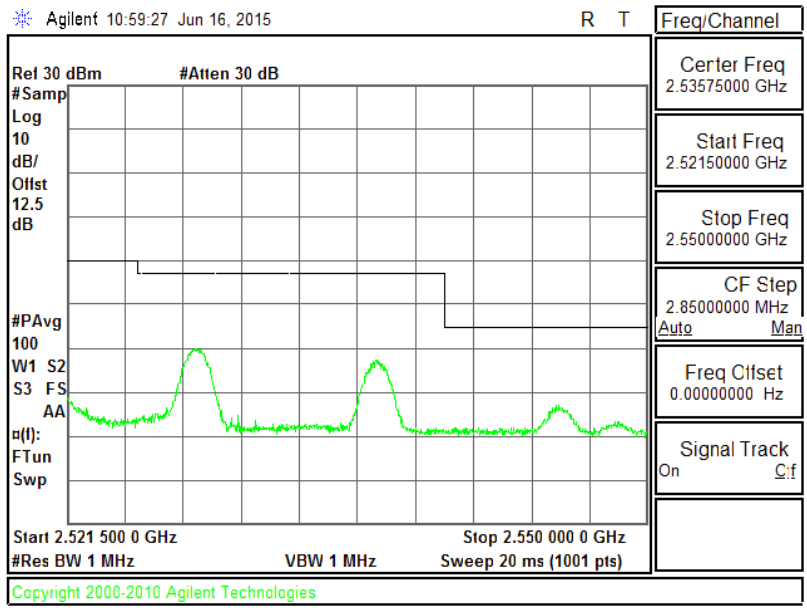
LOW CH, HIGH SIDE, (RB=VB= 1MHz, 2521.5-2550MHz)



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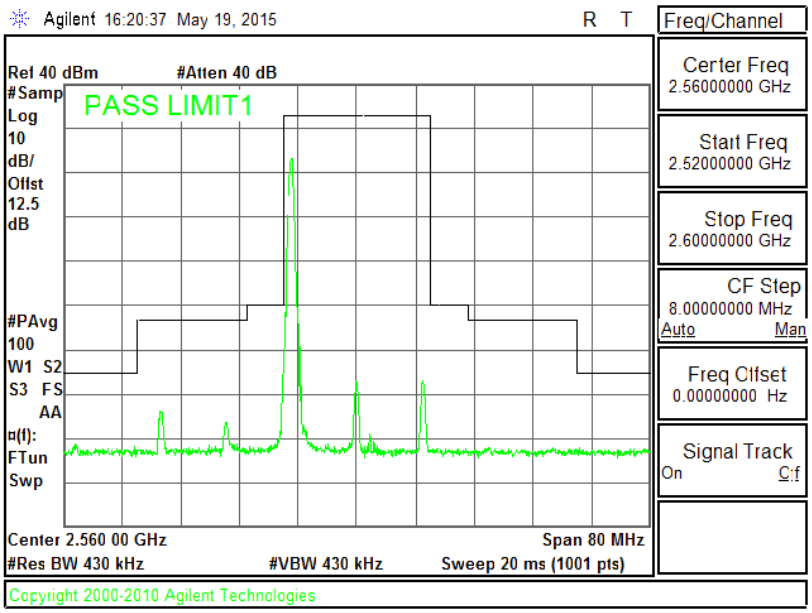
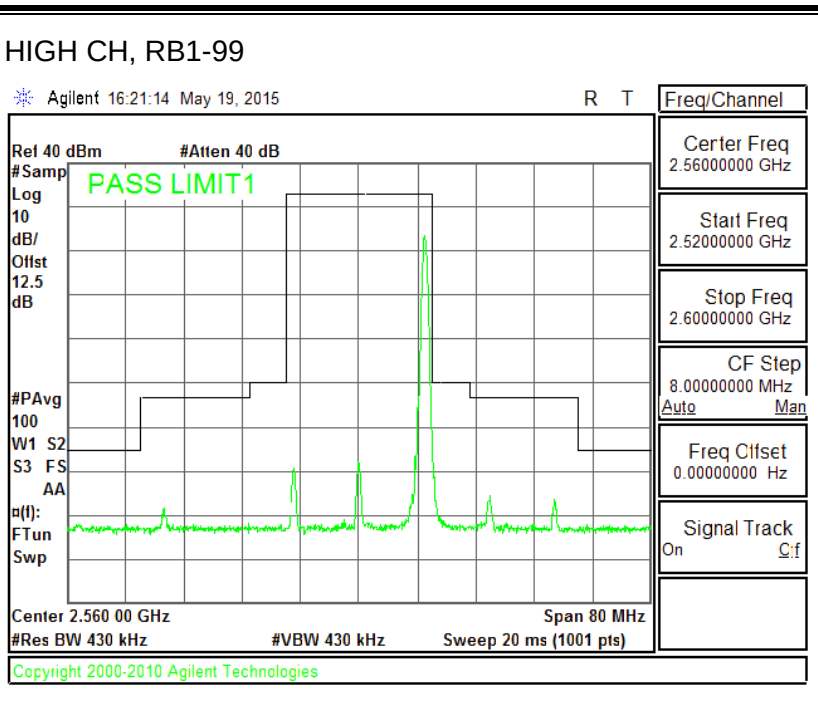
HIGH CH, RB1-0



HIGH CH, RB1-99



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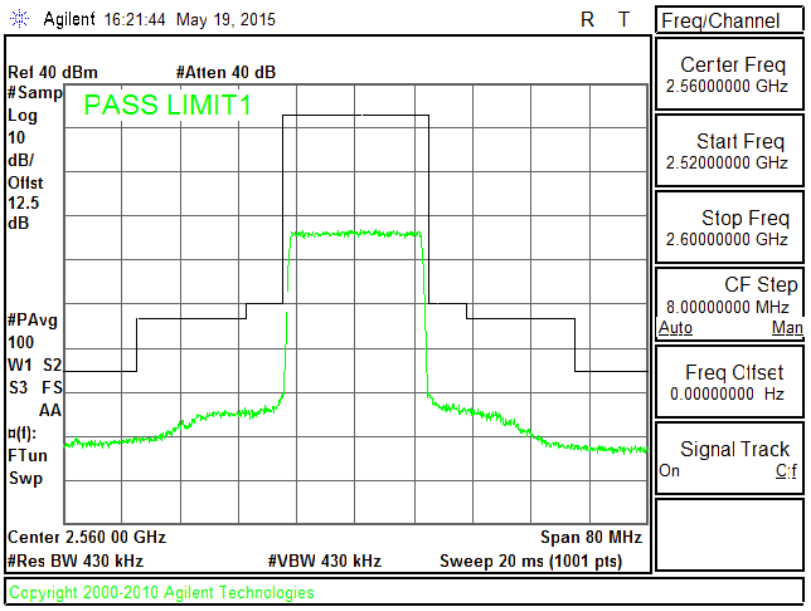
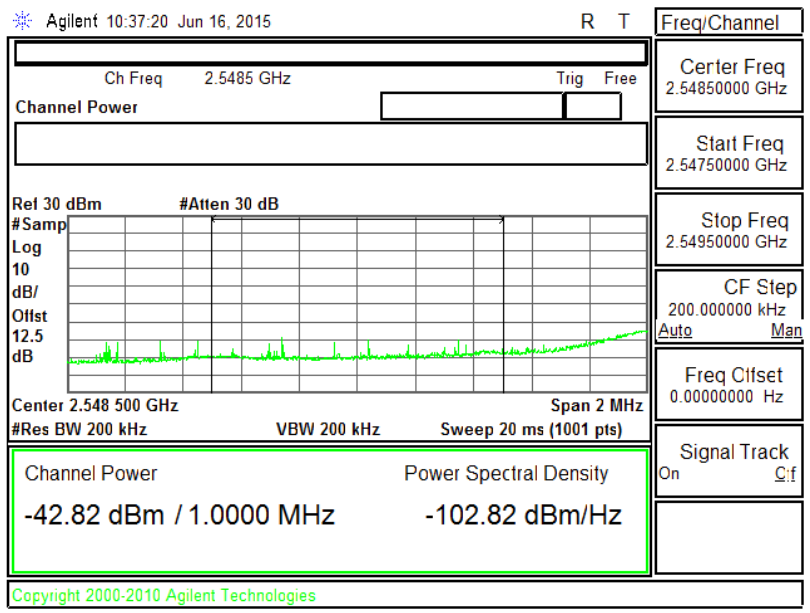
HIGH CH, RB100-0



HIGH CH, LOW SIDE, (RB=VB= 1%EBW, 2548-2549MHz)



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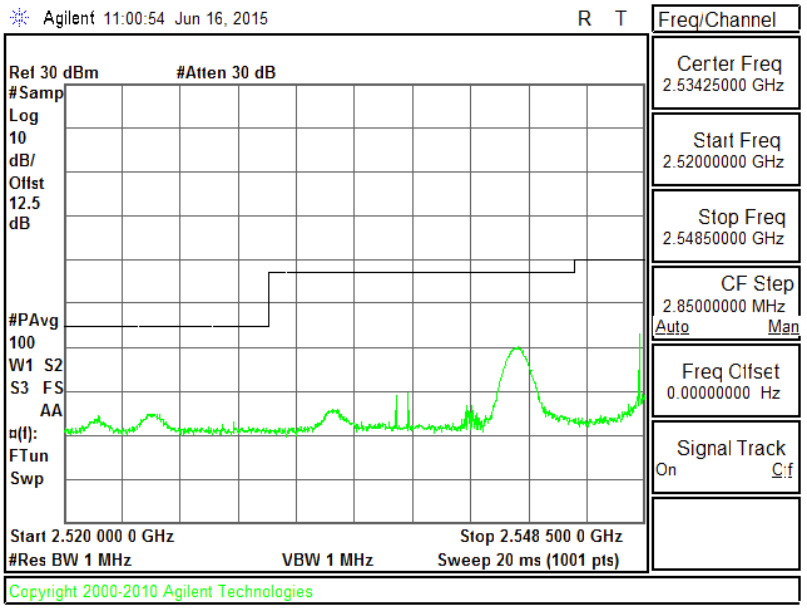
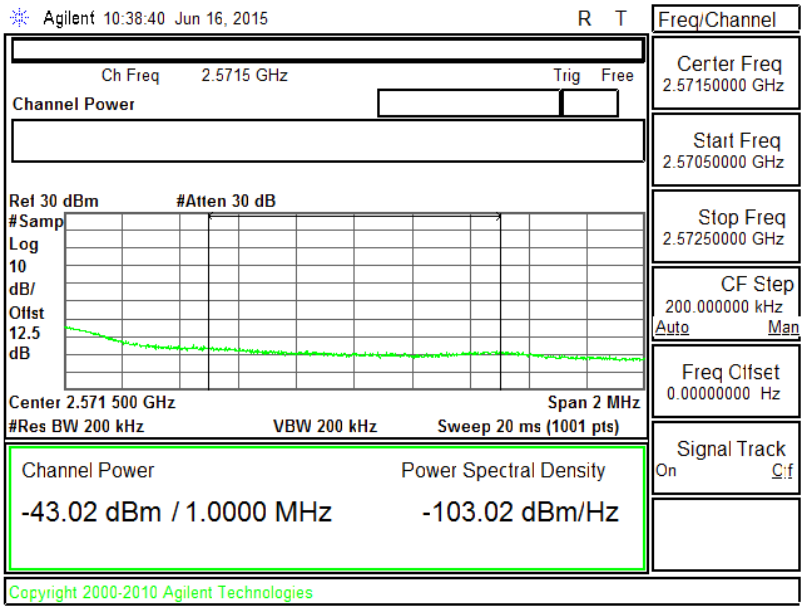
HIGH CH, LOW SIDE, (RB=VB= 1MHz, 2520-2548.5MHz)



HIGH CH, HIGH SIDE, (RB=VB= 1%EBW, 2571-2572MHz)



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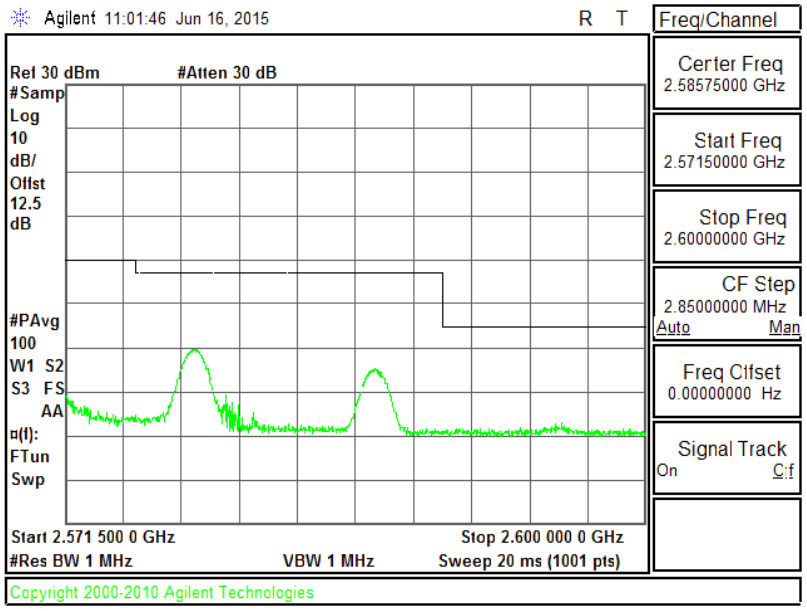
HIGH CH, HIGH SIDE, (RB=VB= 1MHz, 2571.5–2600MHz)



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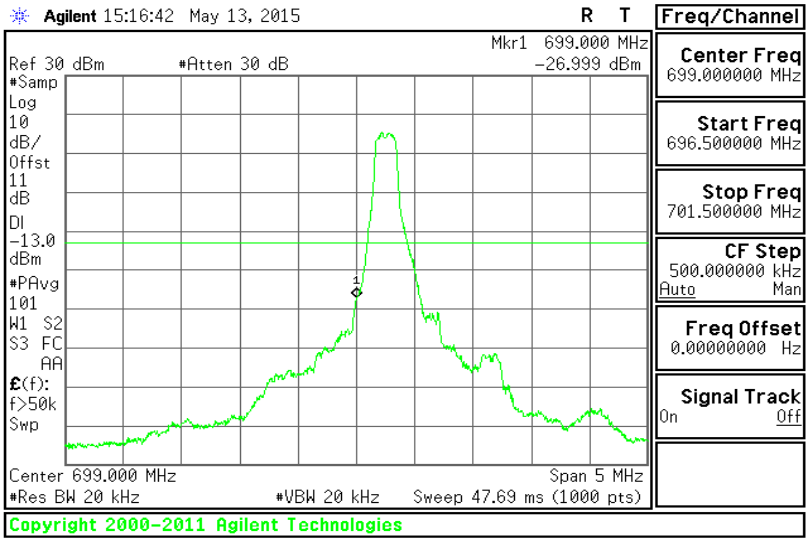
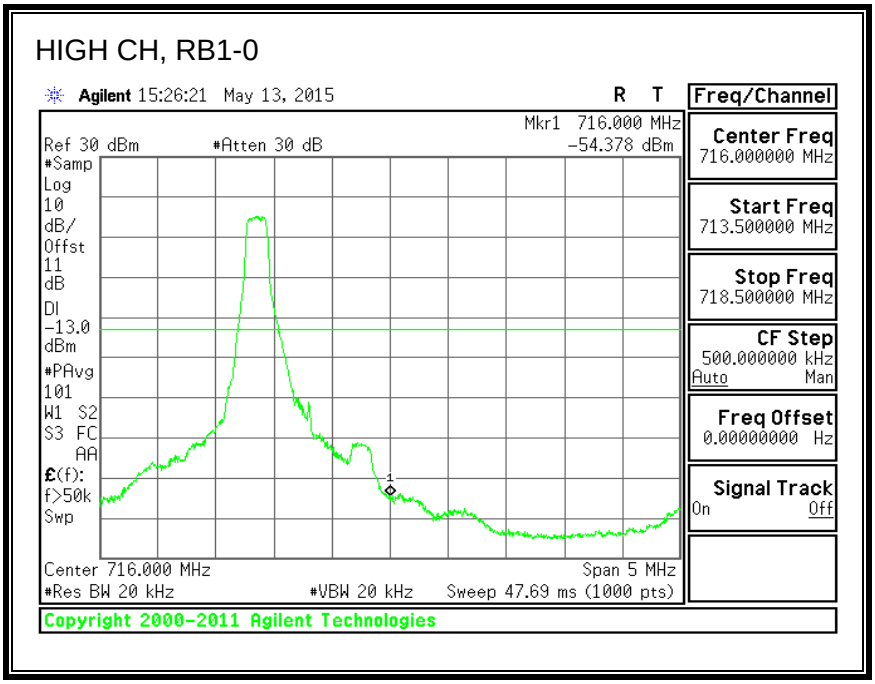
8.4.5. LTE BAND 12 BANDEDGE

QPSK, (1.4 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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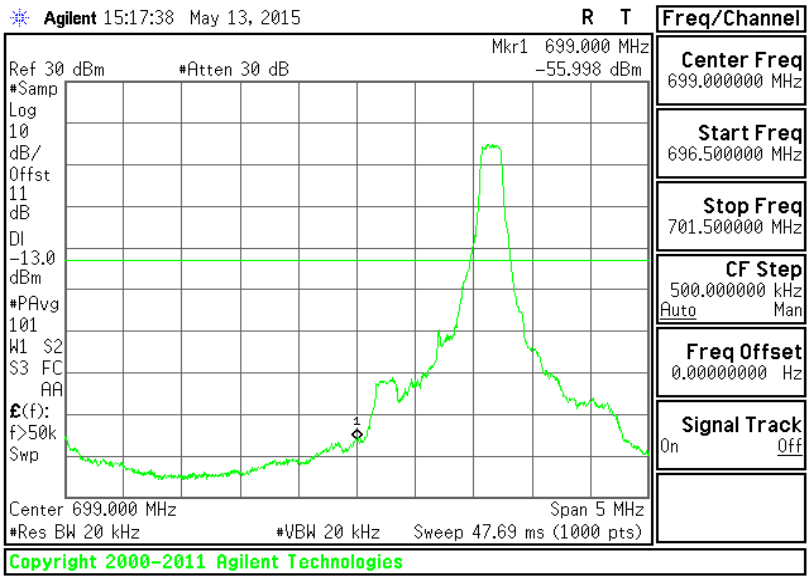
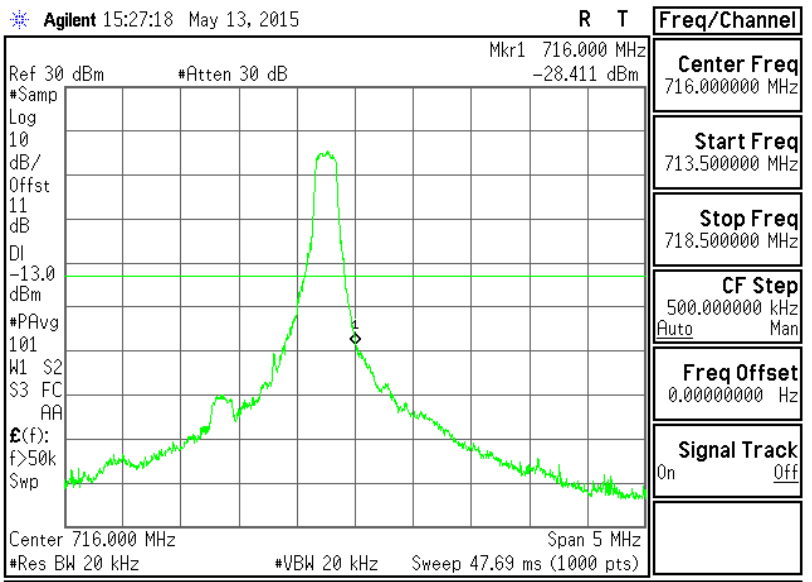
LOW CH, RB1-5



HIGH CH, RB1-5



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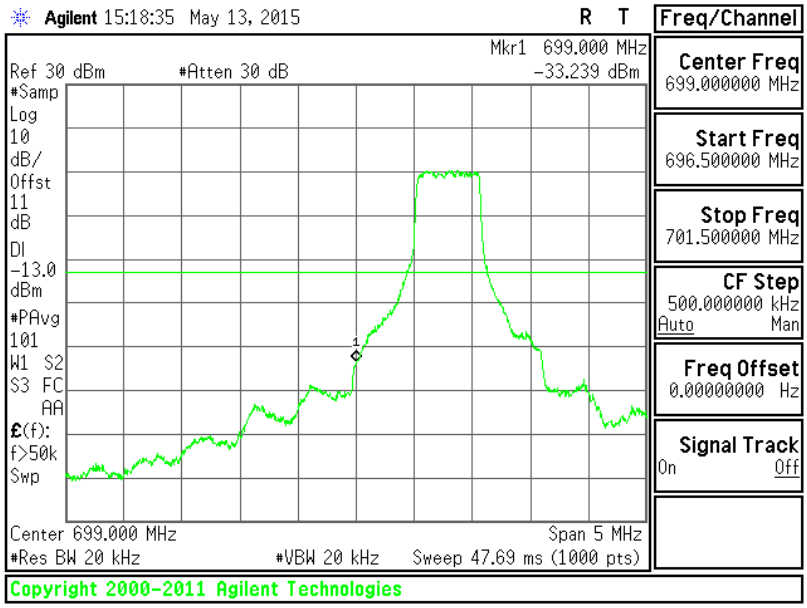
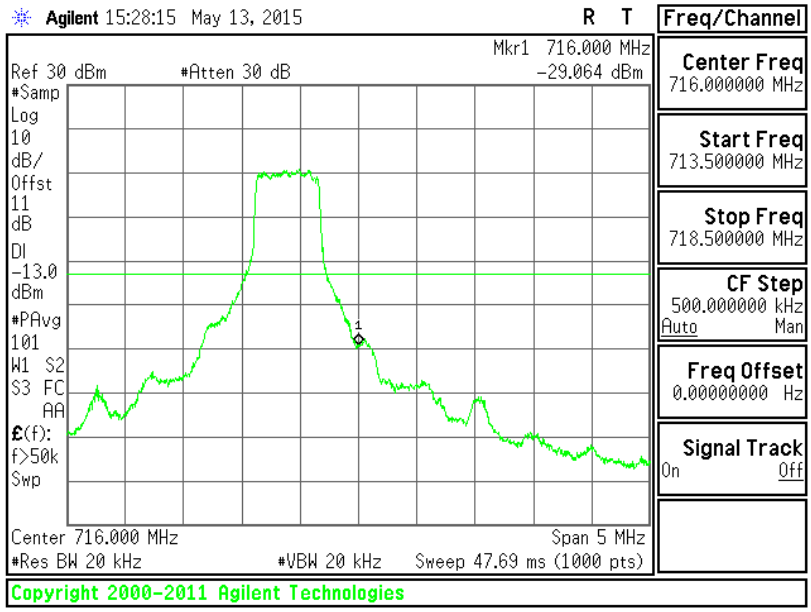
LOW CH, RB3-2



HIGH CH, RB3-2



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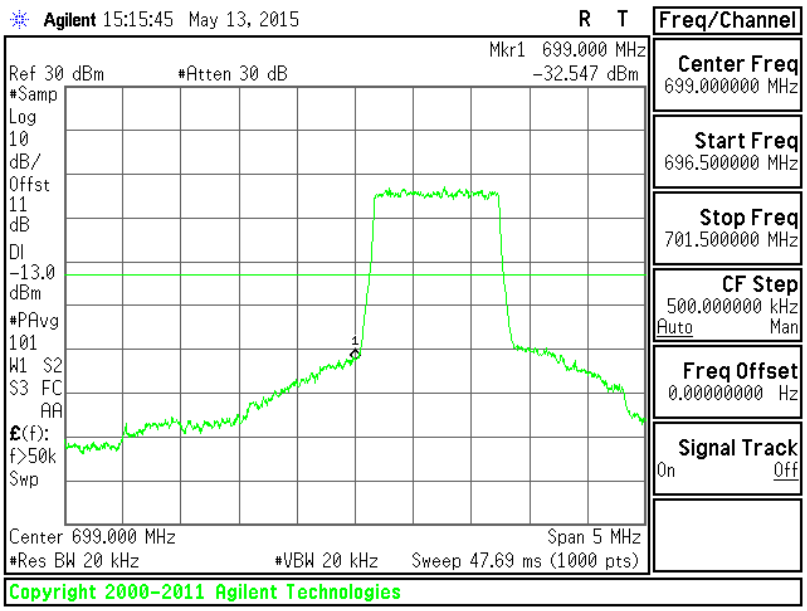
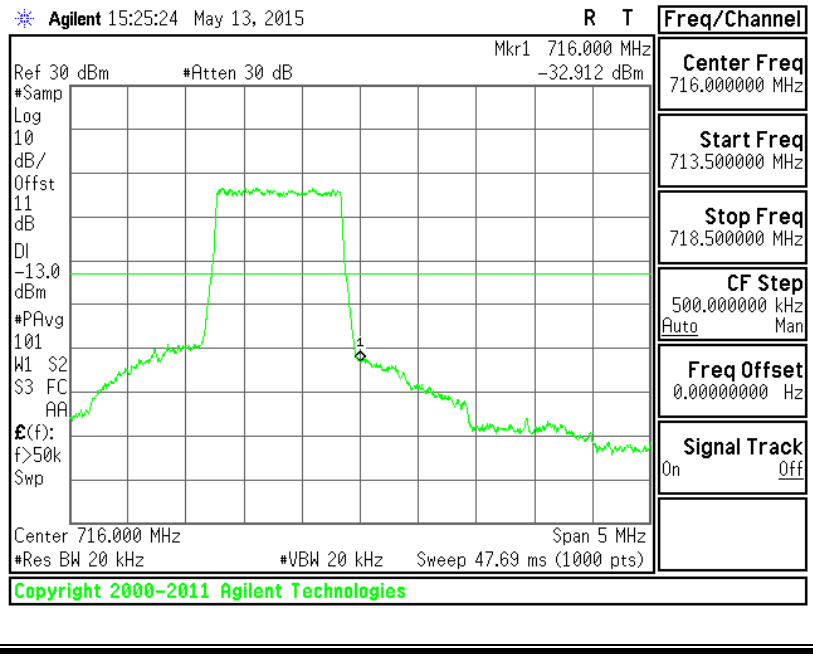
LOW CH, RB6-0



HIGH CH, RB6-0



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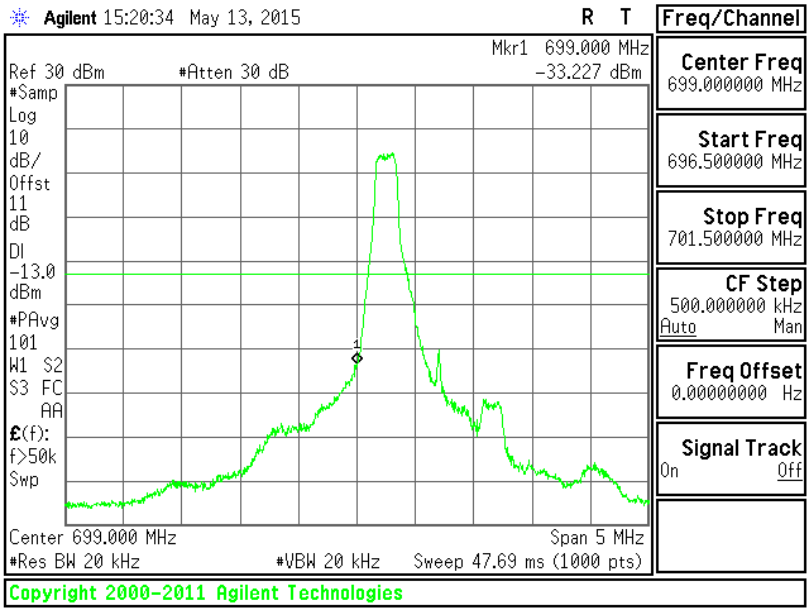
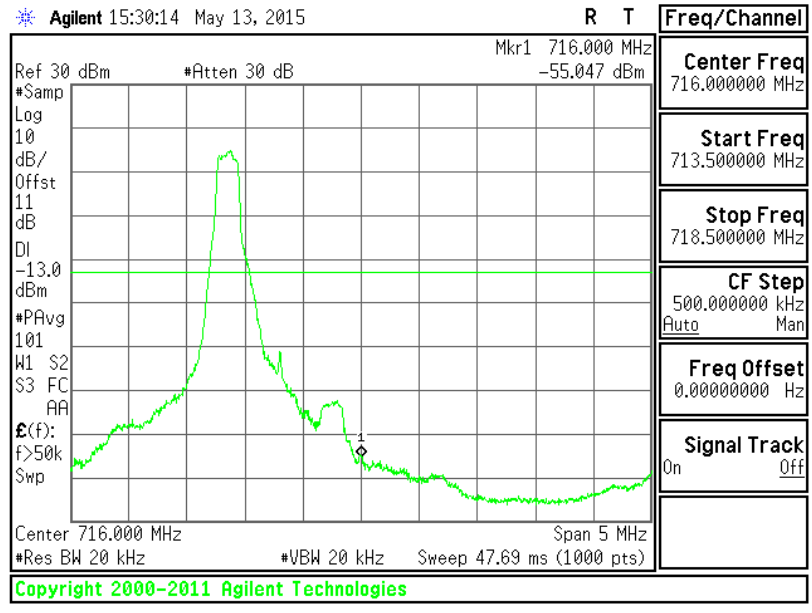
16QAM, (1.4 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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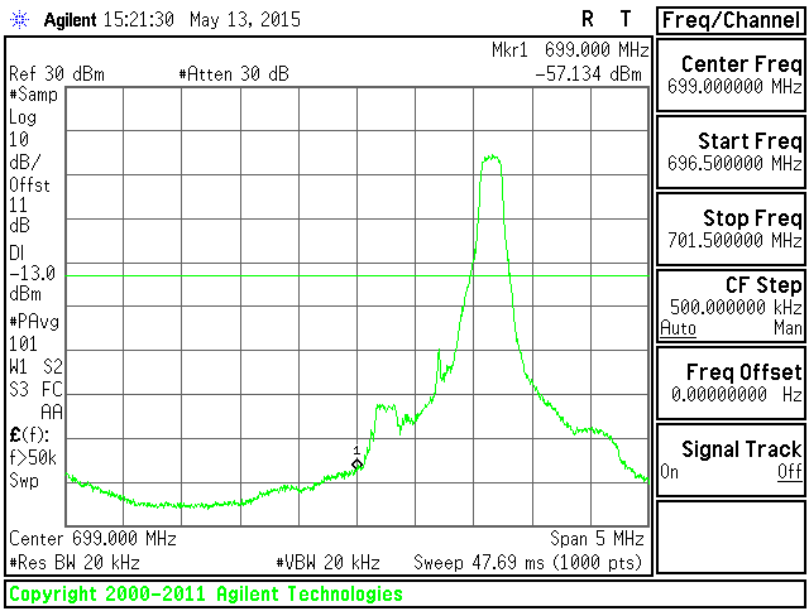
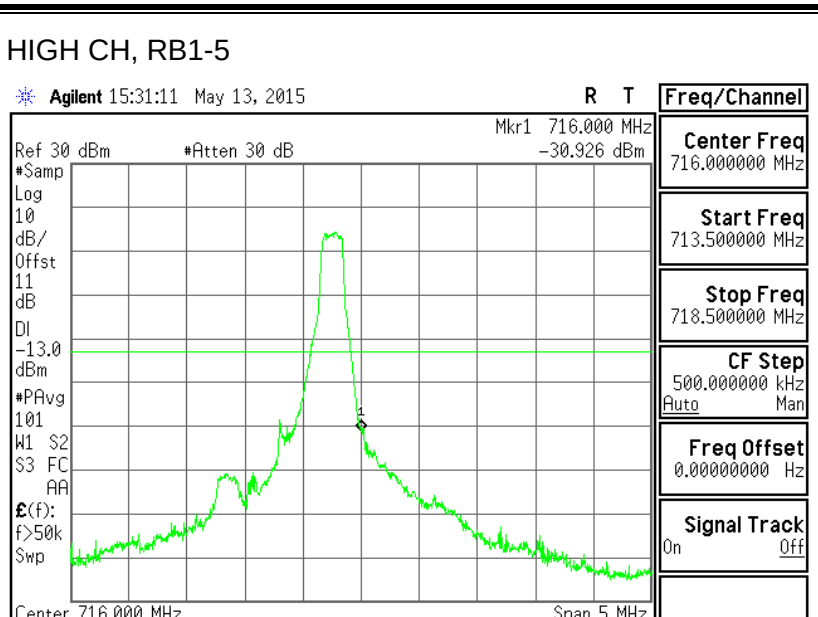
LOW CH, RB1-5



HIGH CH, RB1-5



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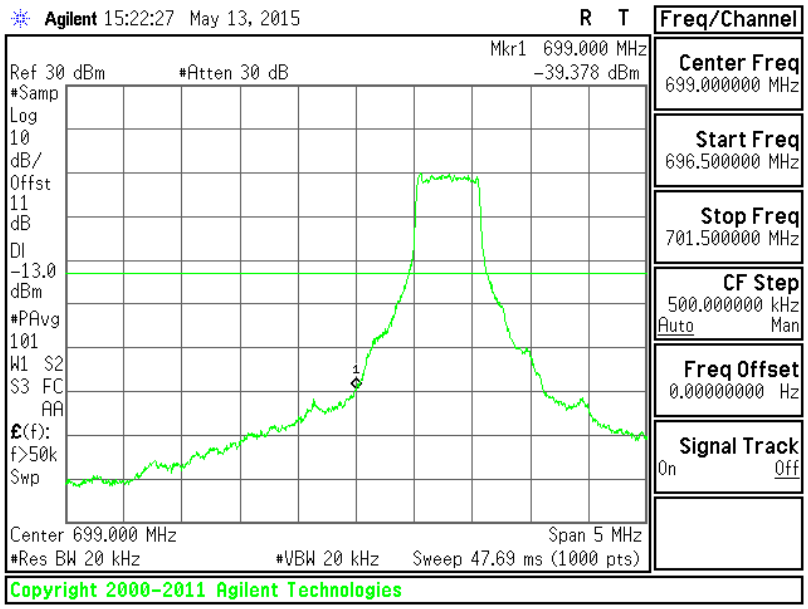
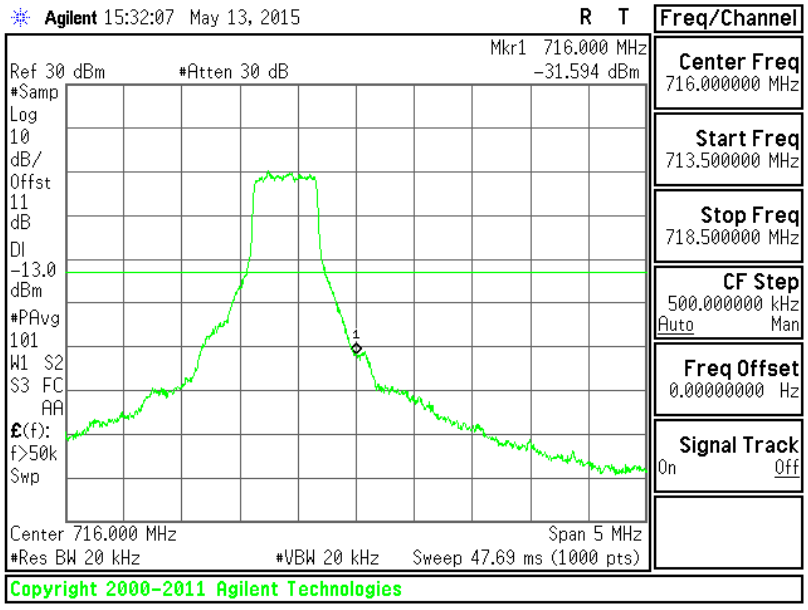
LOW CH, RB3-2



HIGH CH, RB3-2



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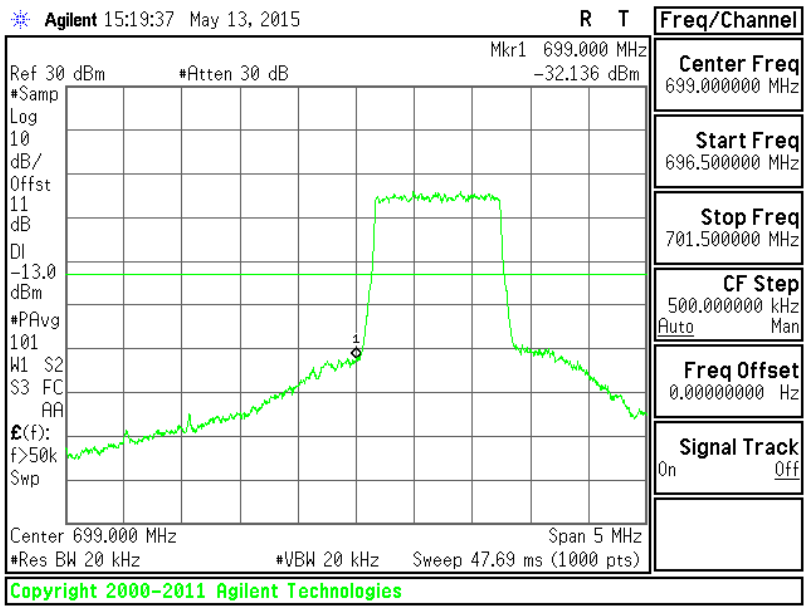
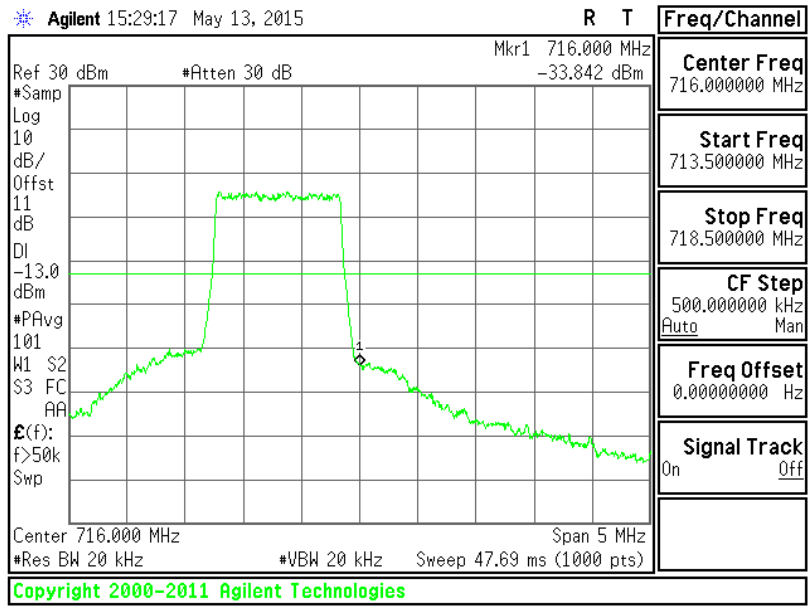
LOW CH, RB6-0



HIGH CH, RB6-0



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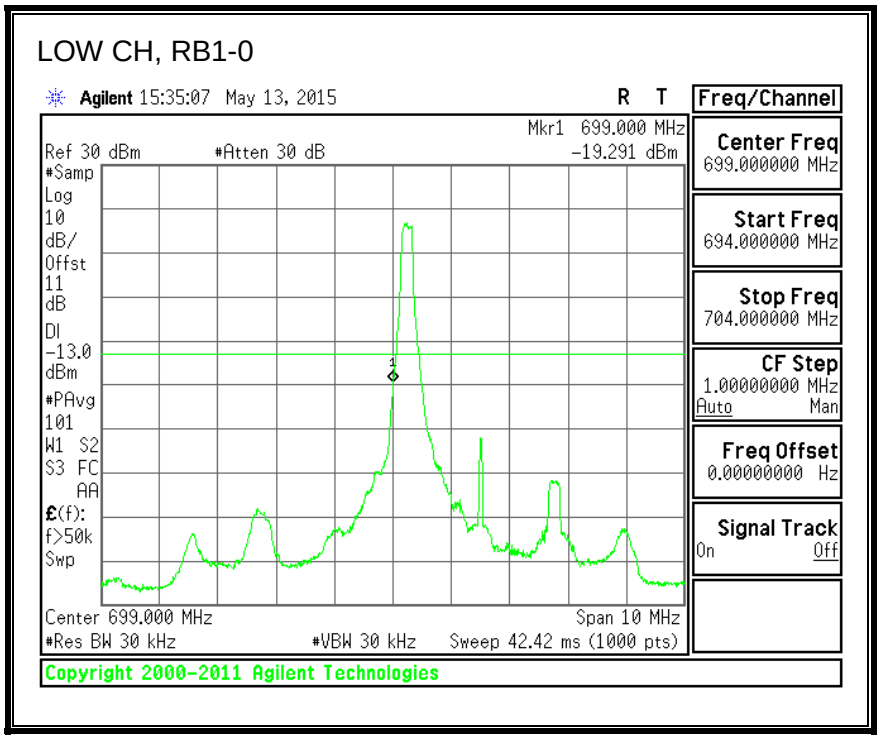
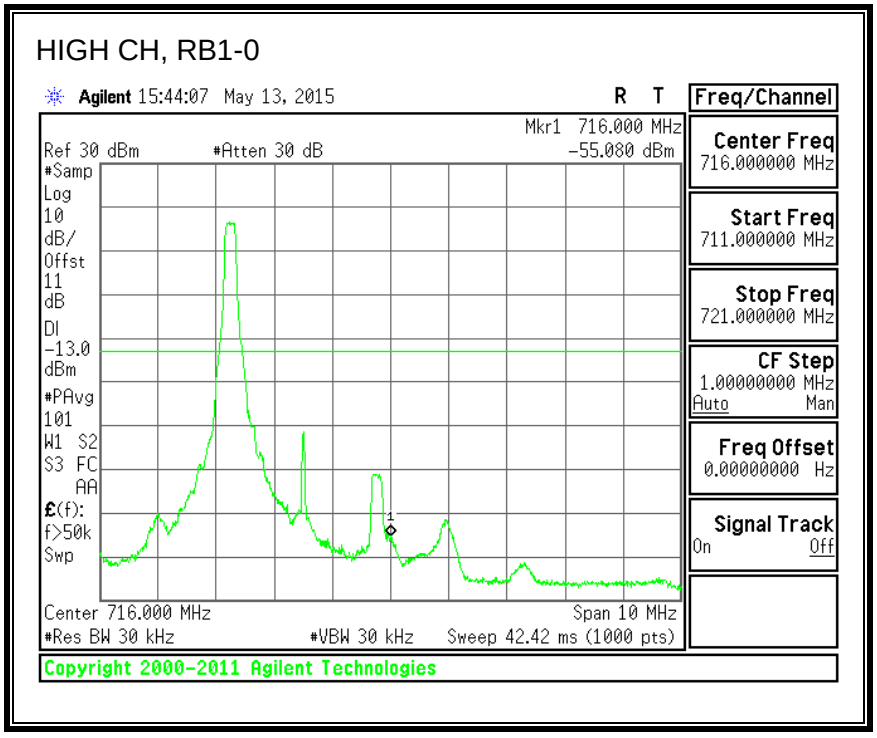
QPSK, (3.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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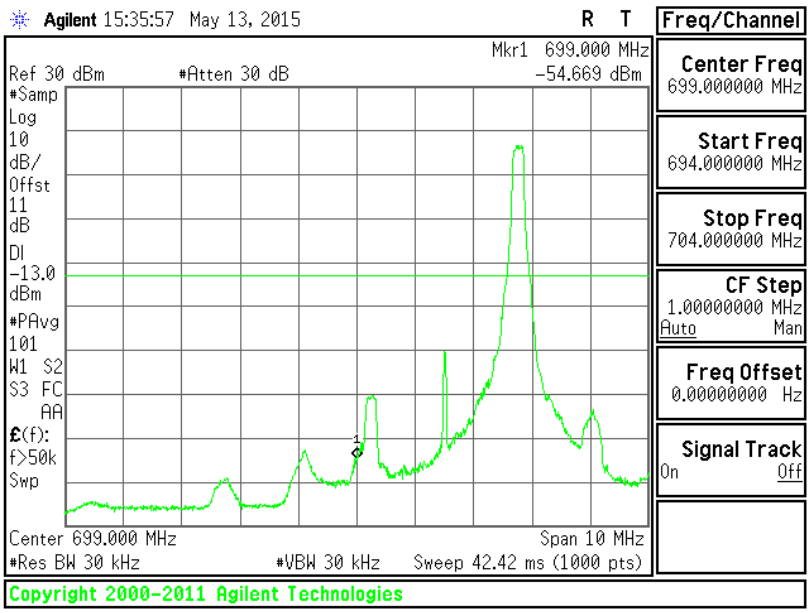
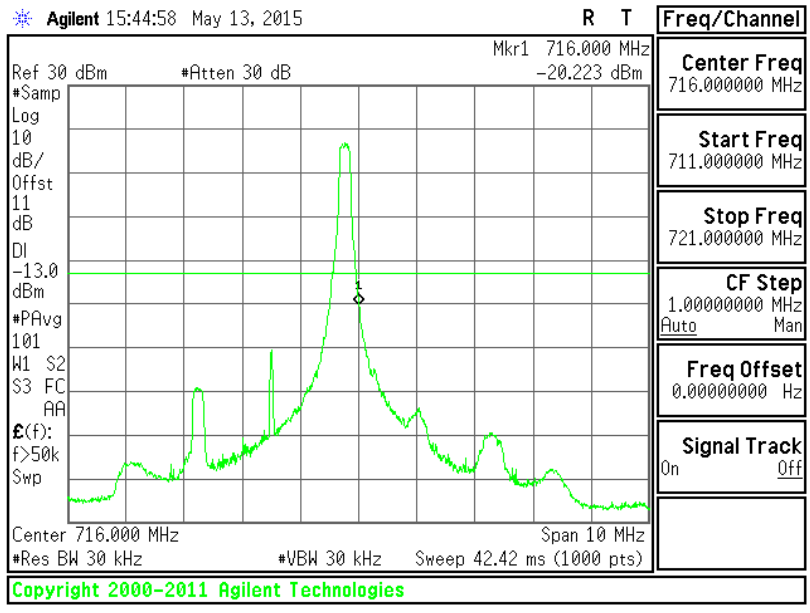
LOW CH, RB1-14



HIGH CH, RB1-14



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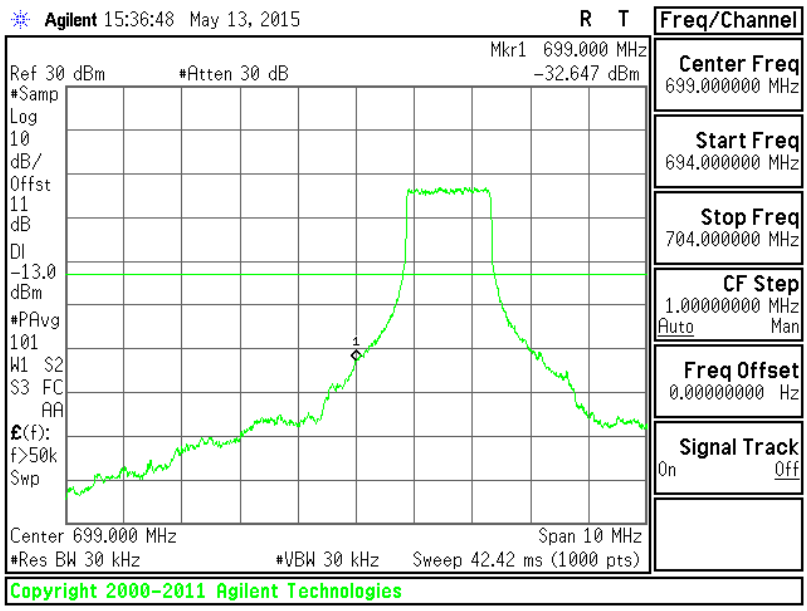
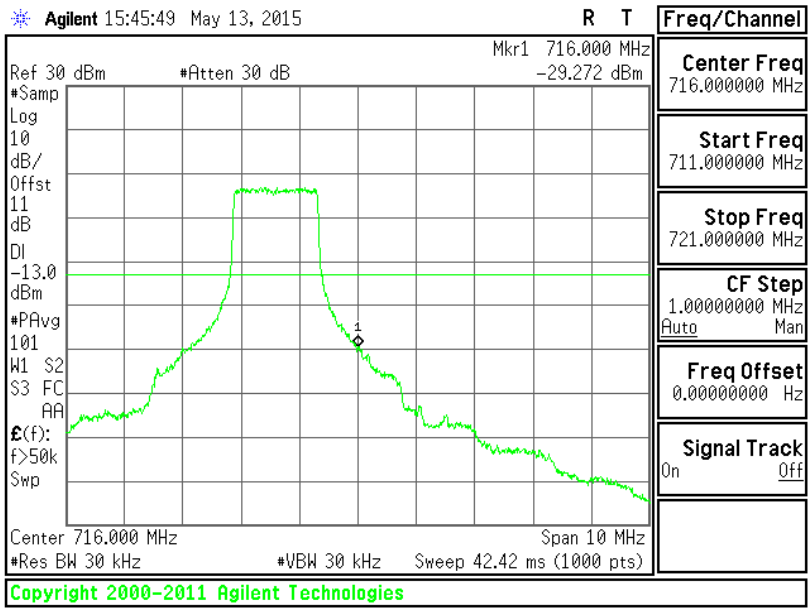
LOW CH, RB8-4



HIGH CH, RB8-4



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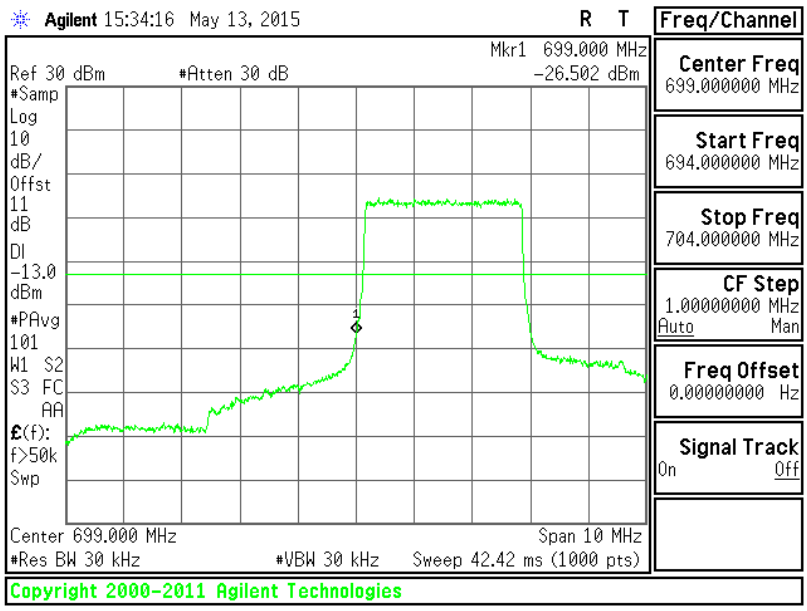
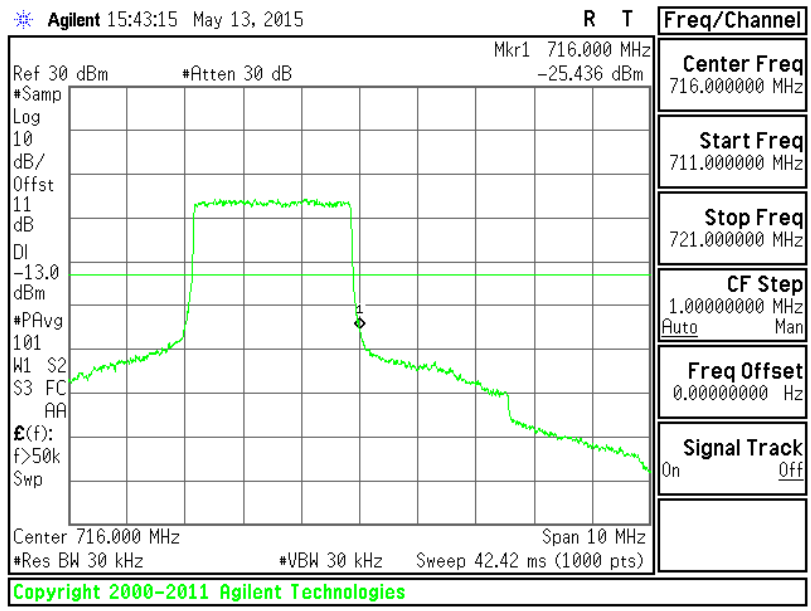
LOW CH, RB15-0



HIGH CH, RB15-0



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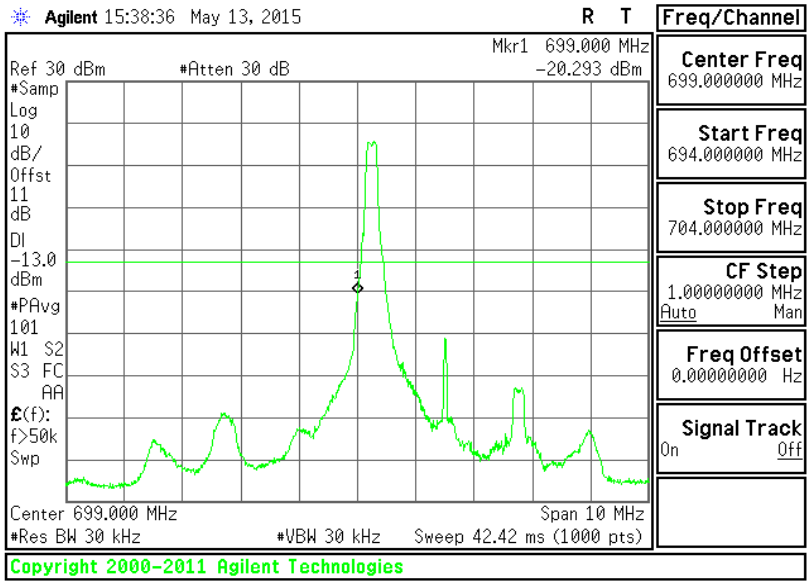
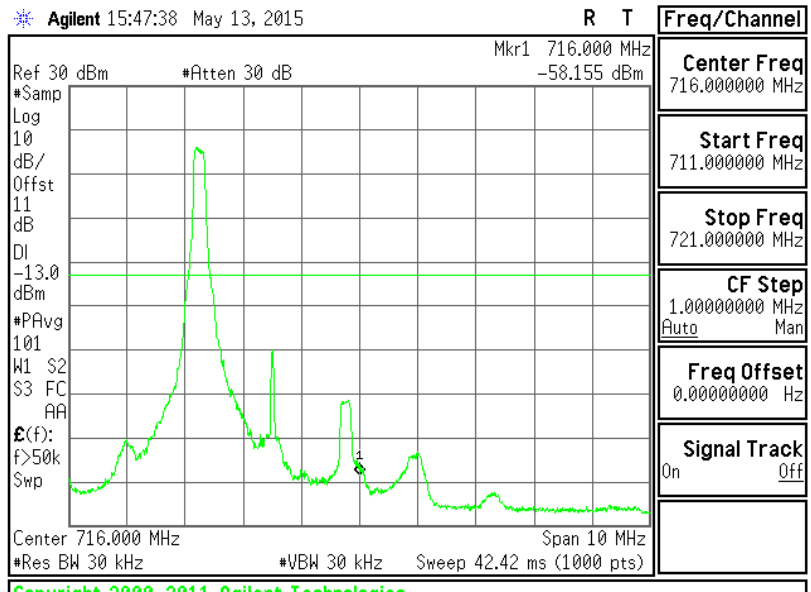
16QAM, (3.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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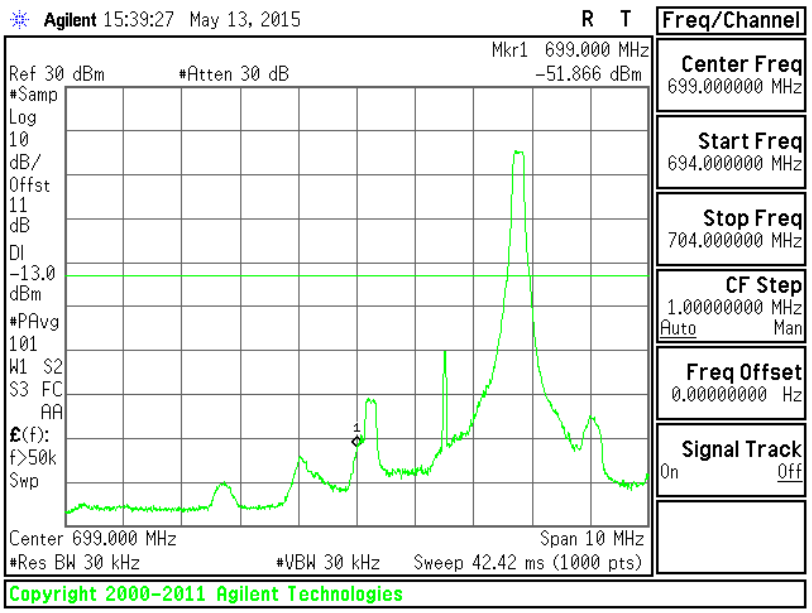
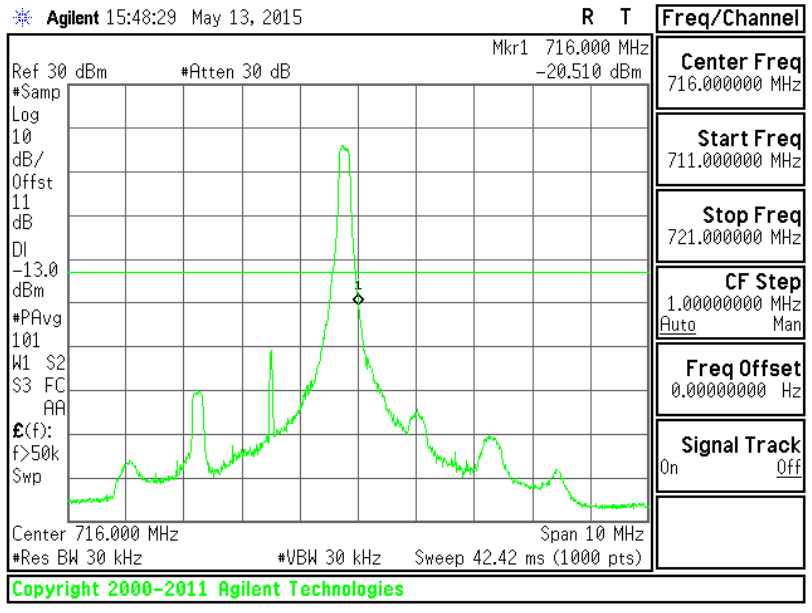
LOW CH, RB1-14



HIGH CH, RB1-14



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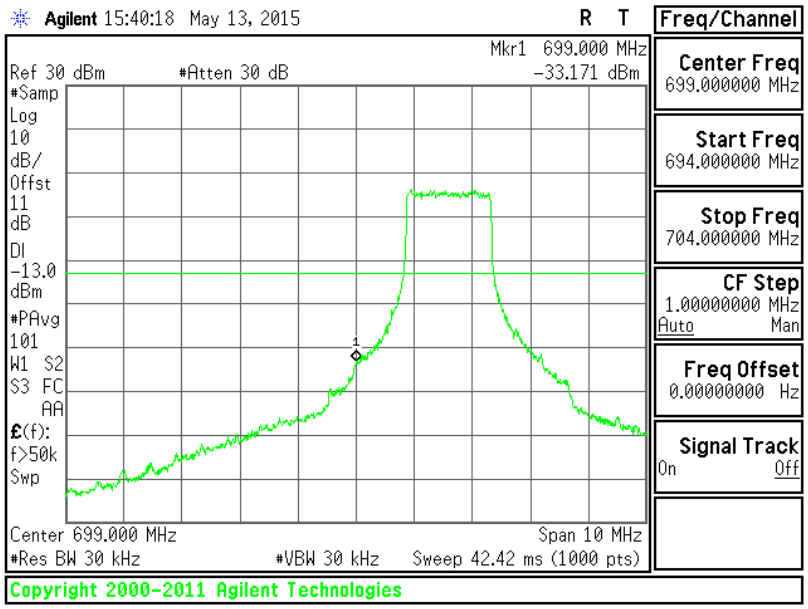
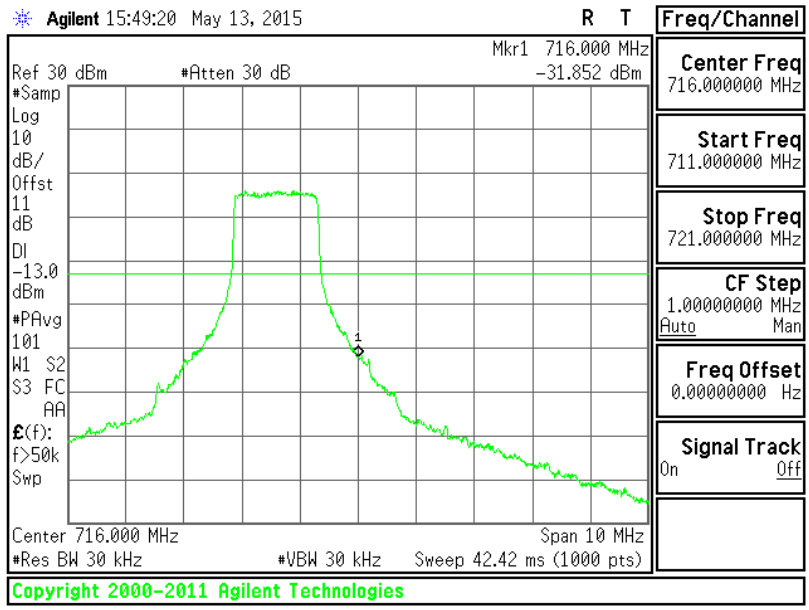
LOW CH, RB8-4



HIGH CH, RB8-4



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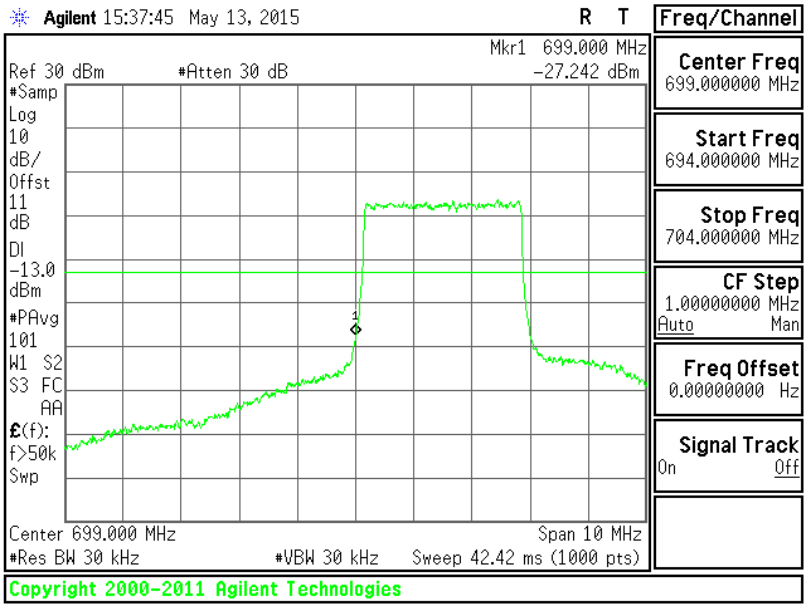
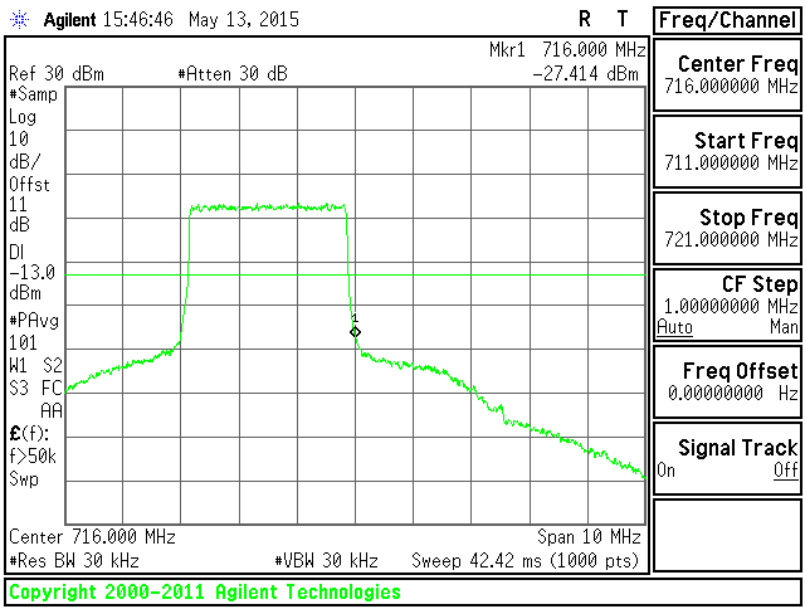
LOW CH, RB15-0



HIGH CH, RB15-0



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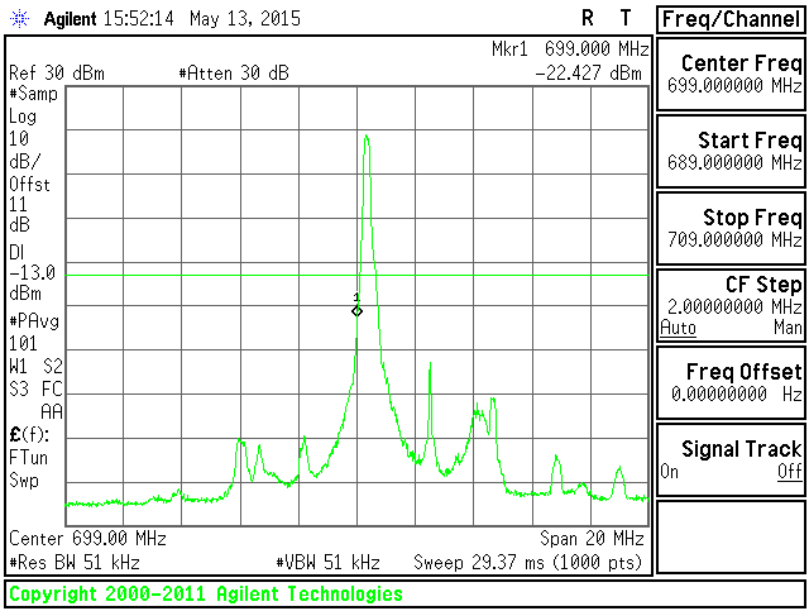
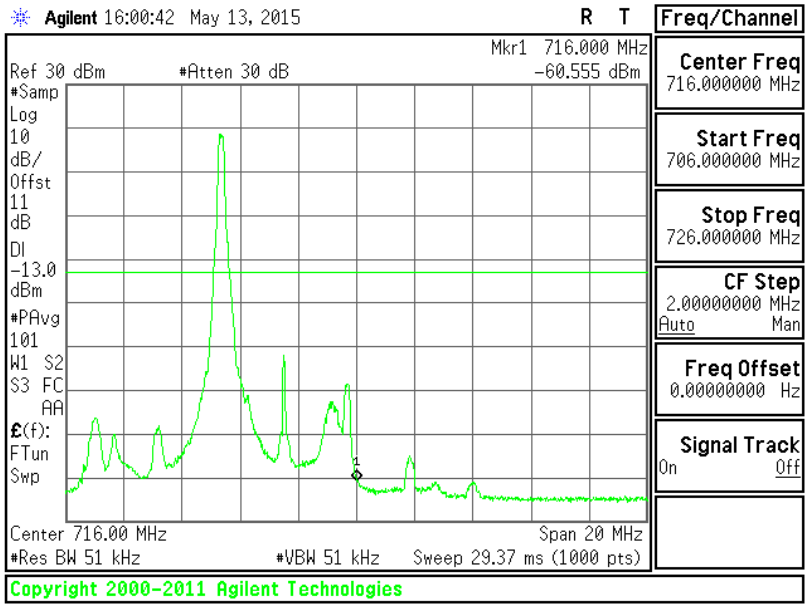
QPSK, (5.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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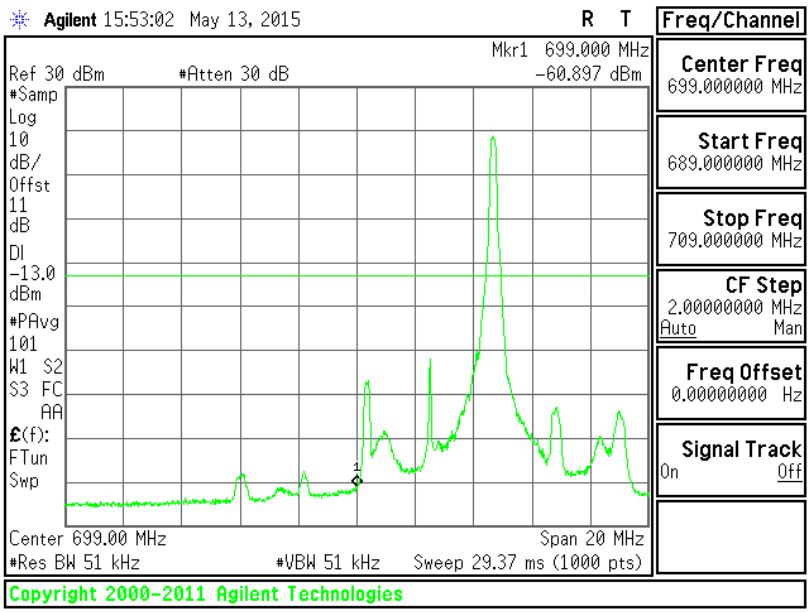
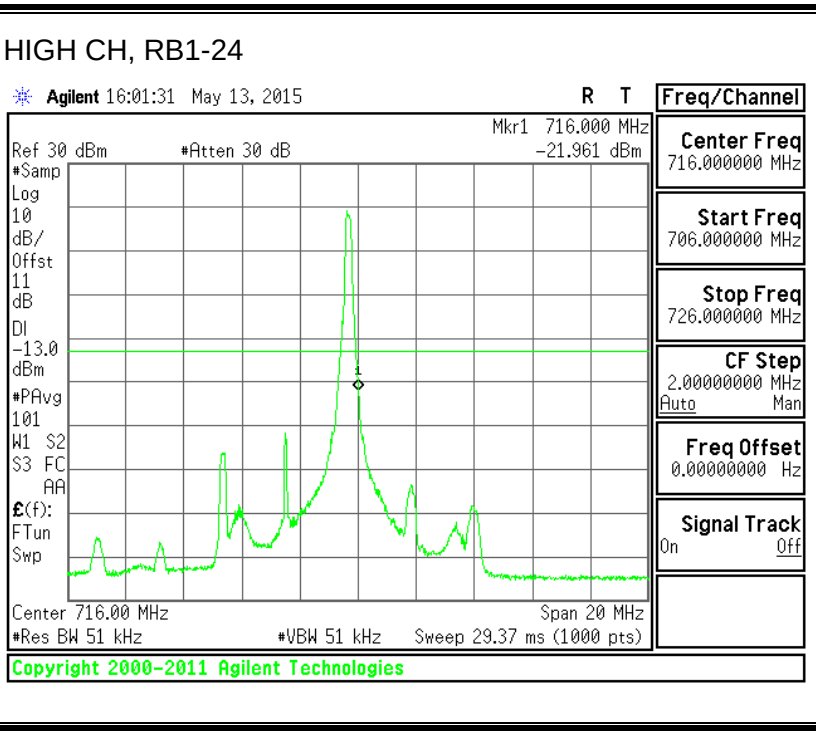
LOW CH, RB1-24



HIGH CH, RB1-24



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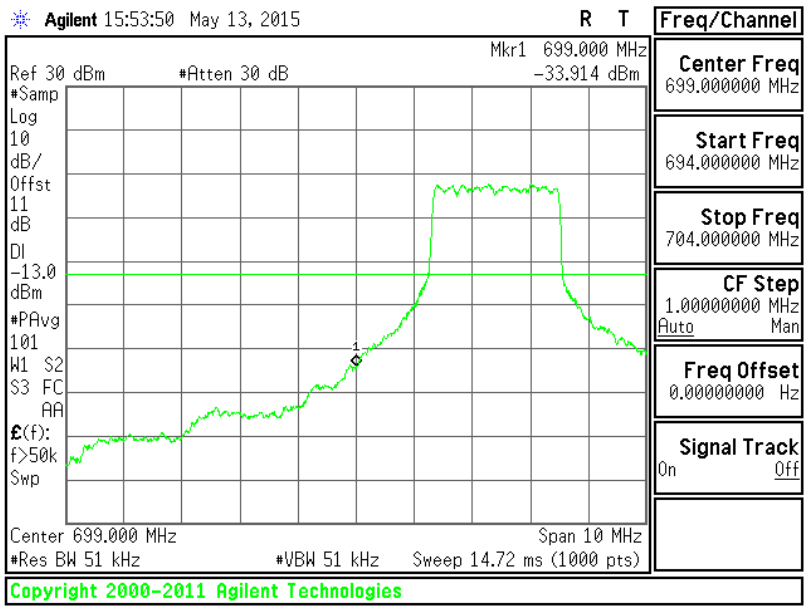
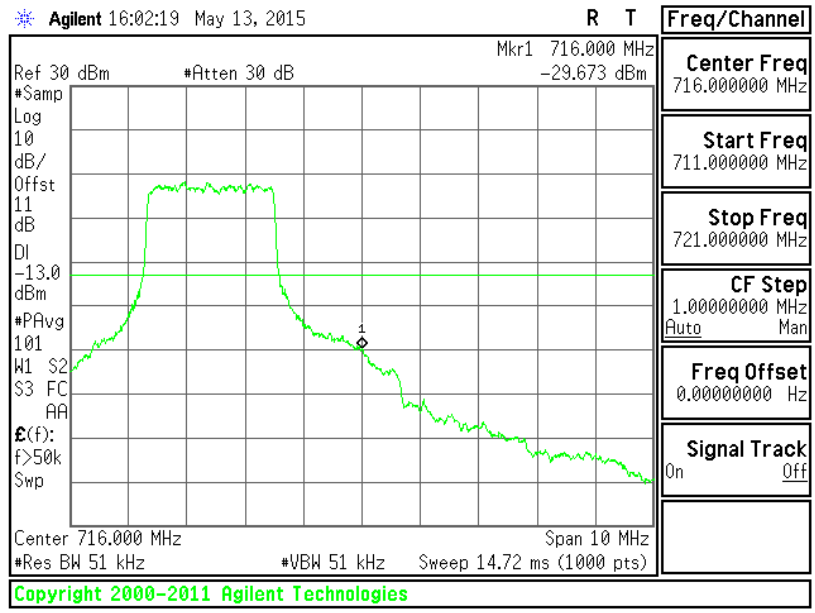
LOW CH, RB12-6



HIGH CH, RB12-6



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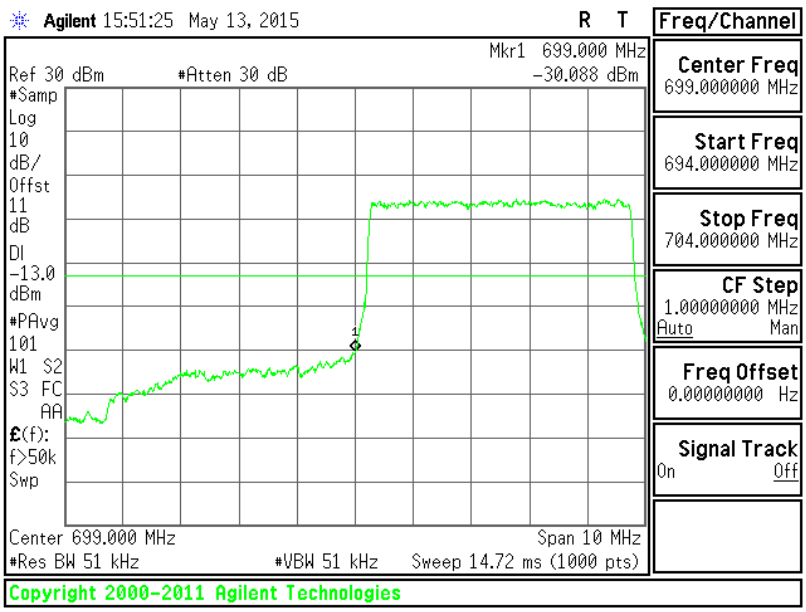
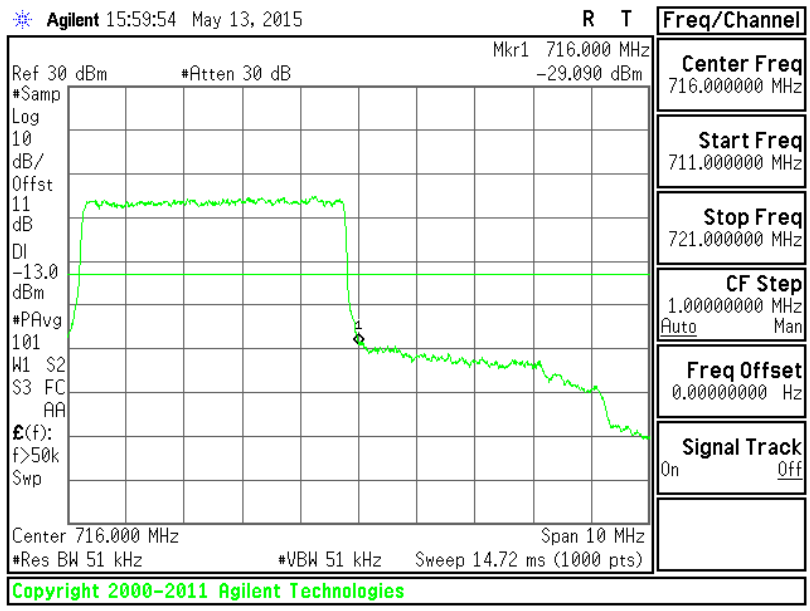
LOW CH, RB25-0



HIGH CH, RB25-0



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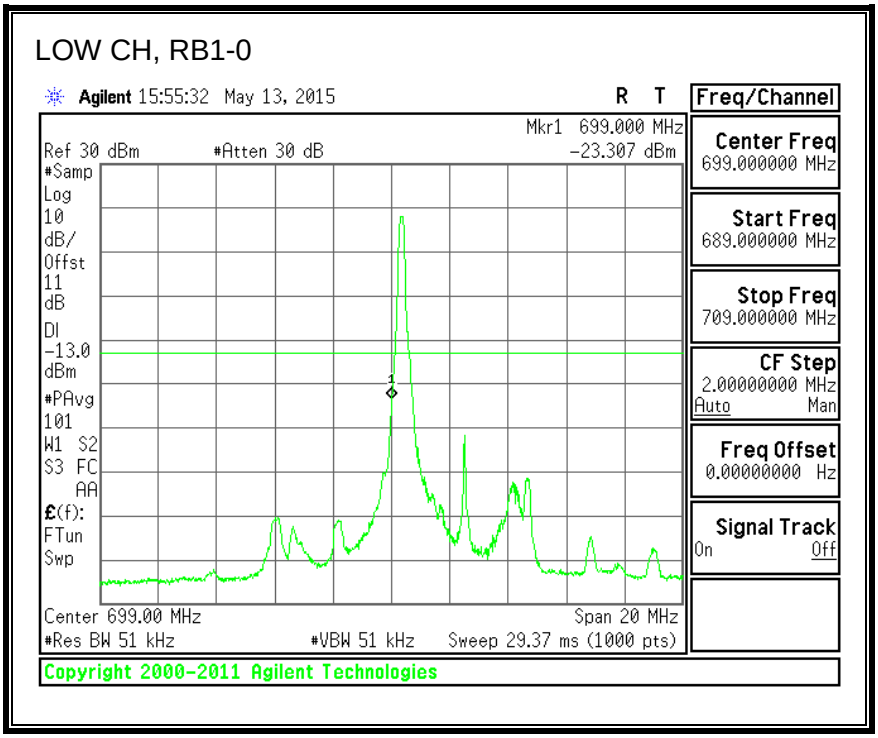
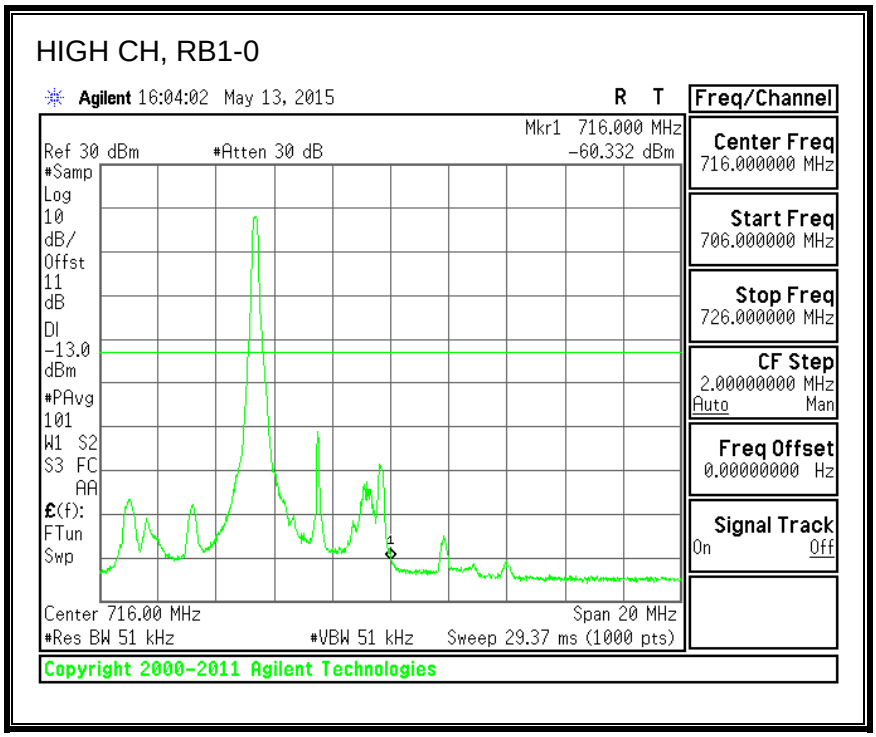
16QAM, (5.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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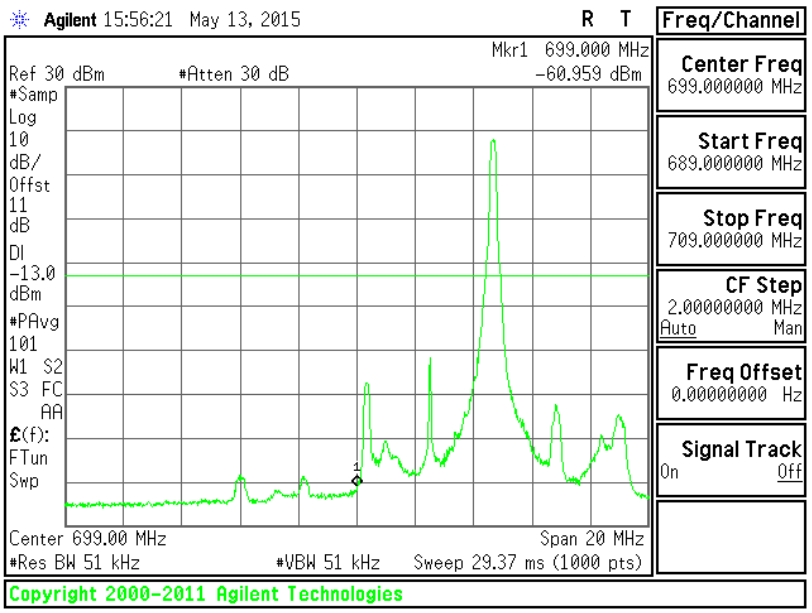
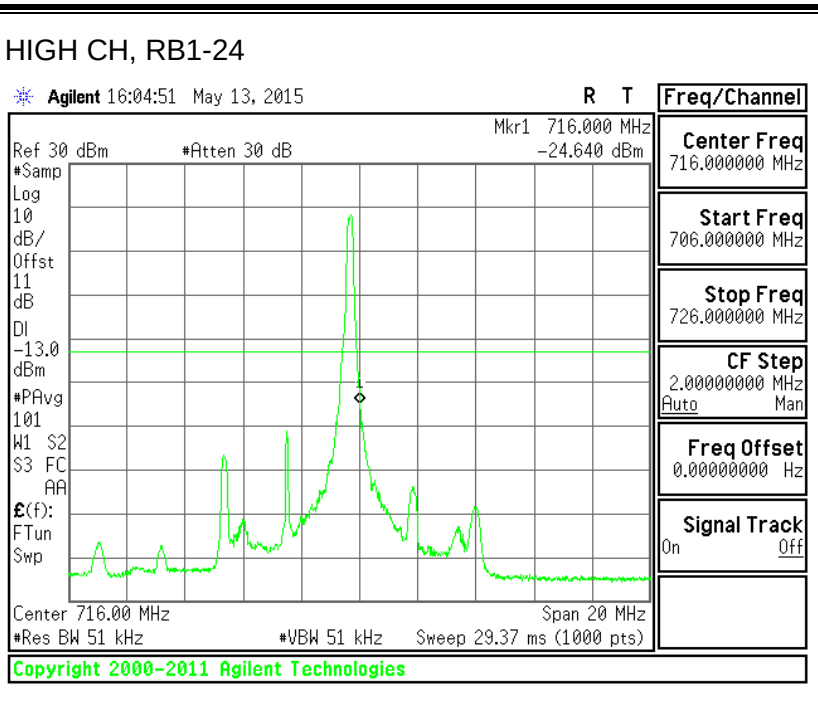
LOW CH, RB1-24



HIGH CH, RB1-24



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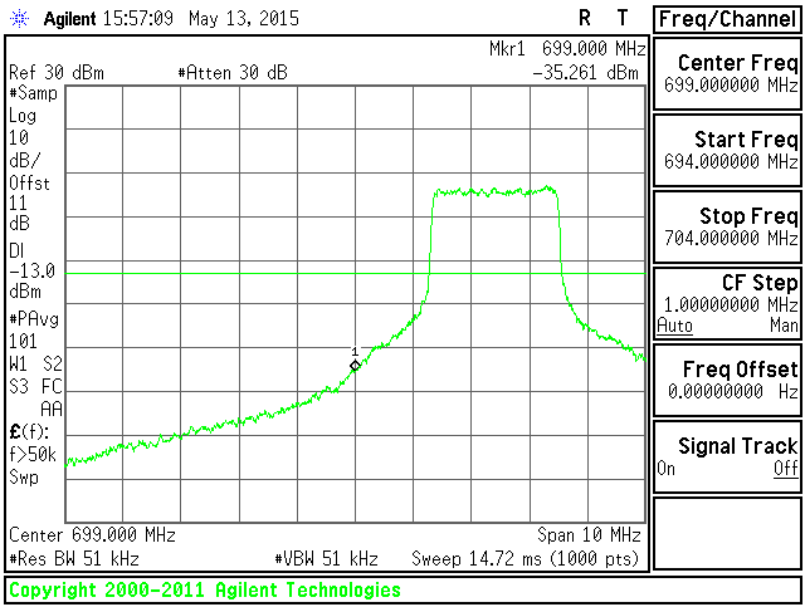
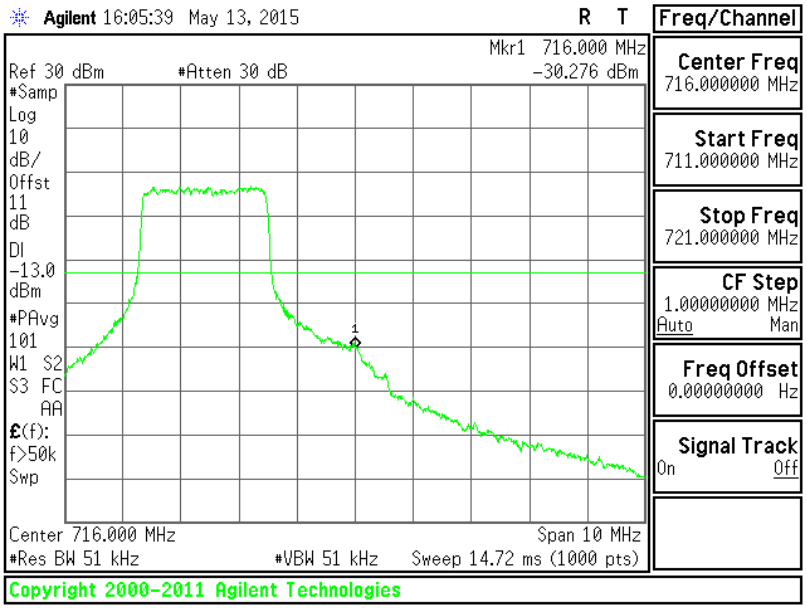
LOW CH, RB12-6



HIGH CH, RB12-6



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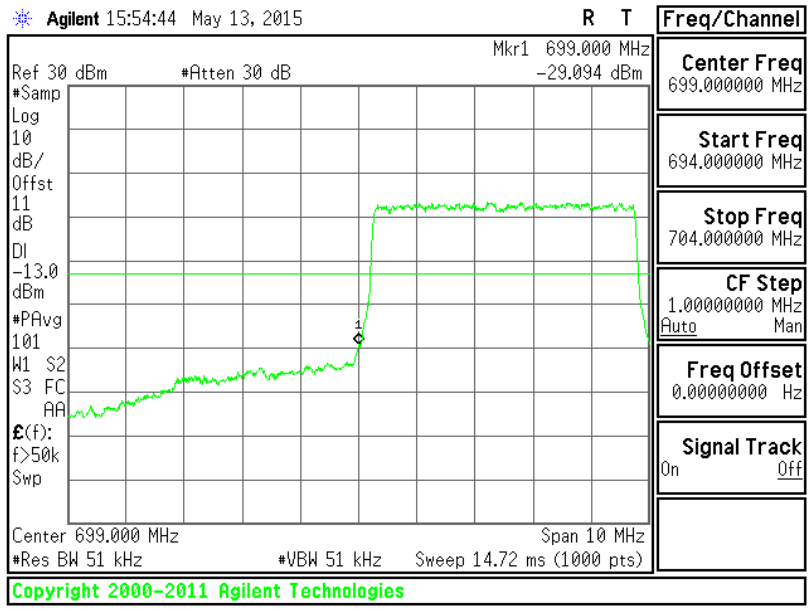
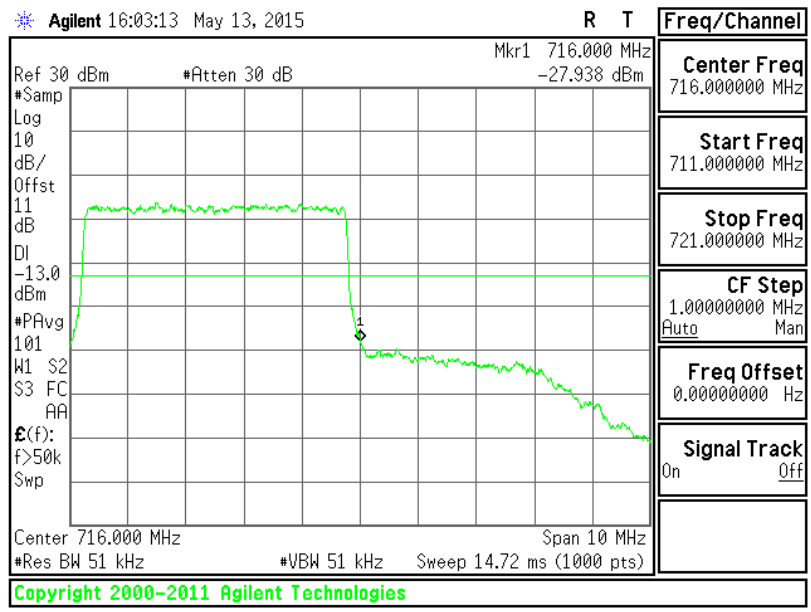
LOW CH, RB25-0



HIGH CH, RB25-0



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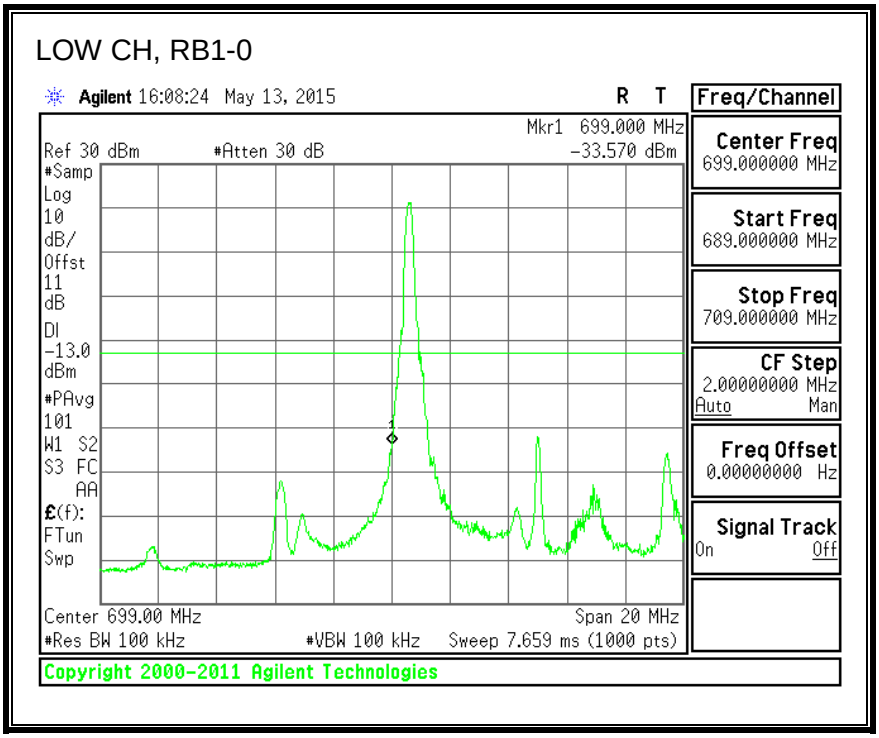
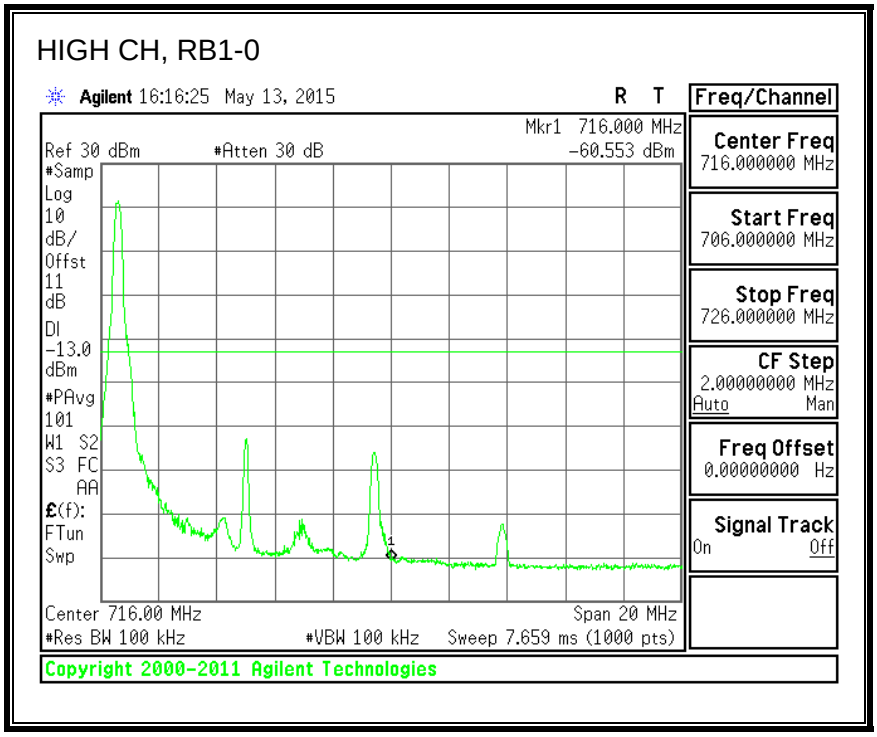
QPSK, (10.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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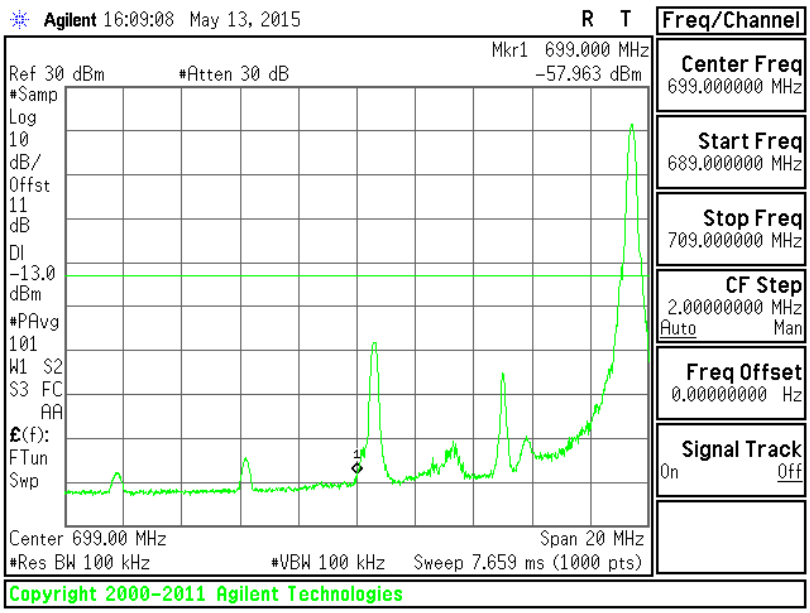
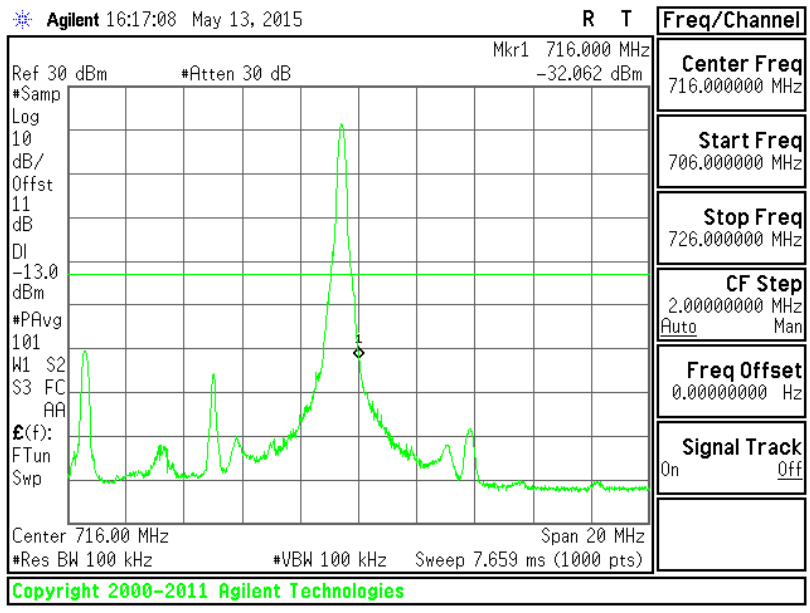
LOW CH, RB1-49



HIGH CH, RB1-49



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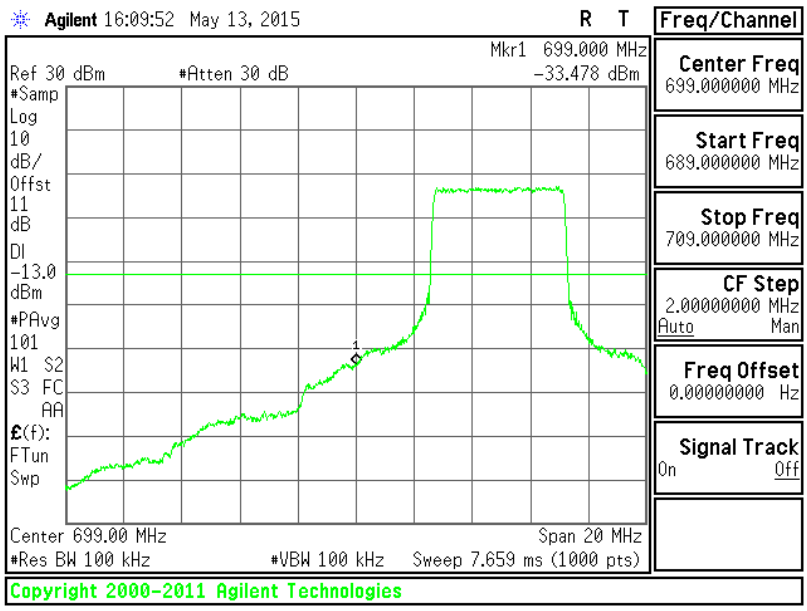
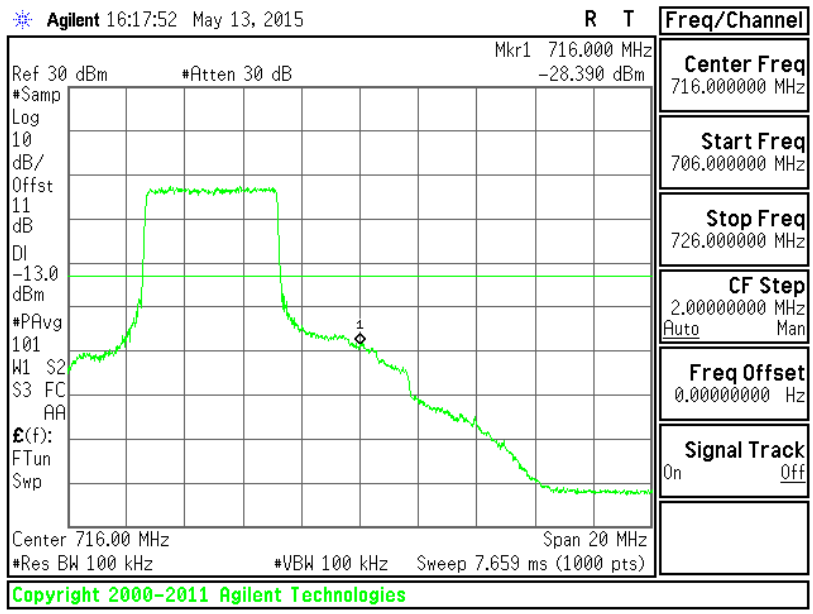
LOW CH, RB25-12



HIGH CH, RB25-12



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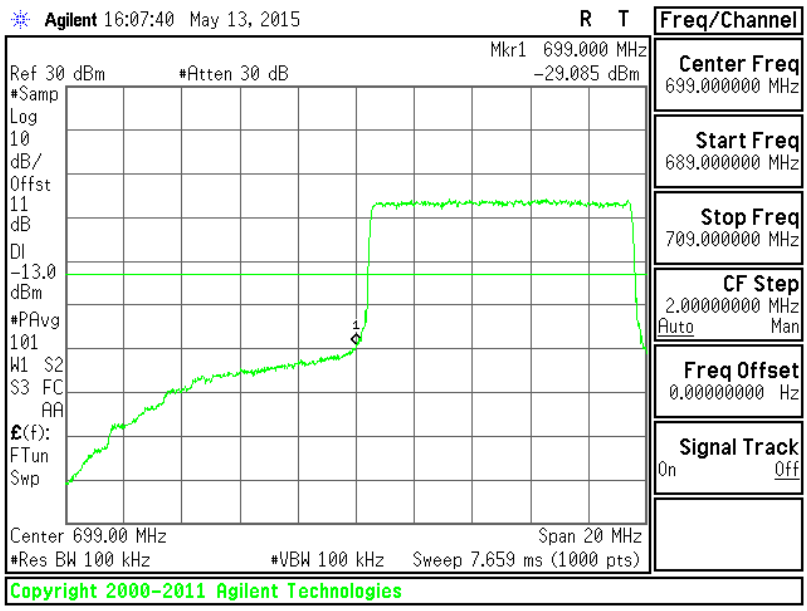
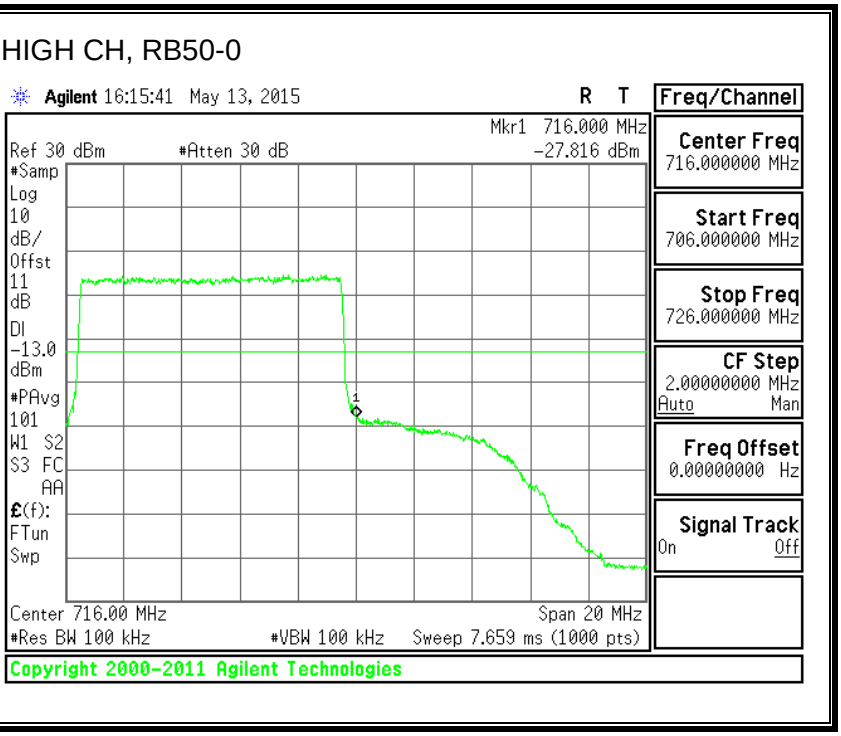
LOW CH, RB50-0



HIGH CH, RB50-0



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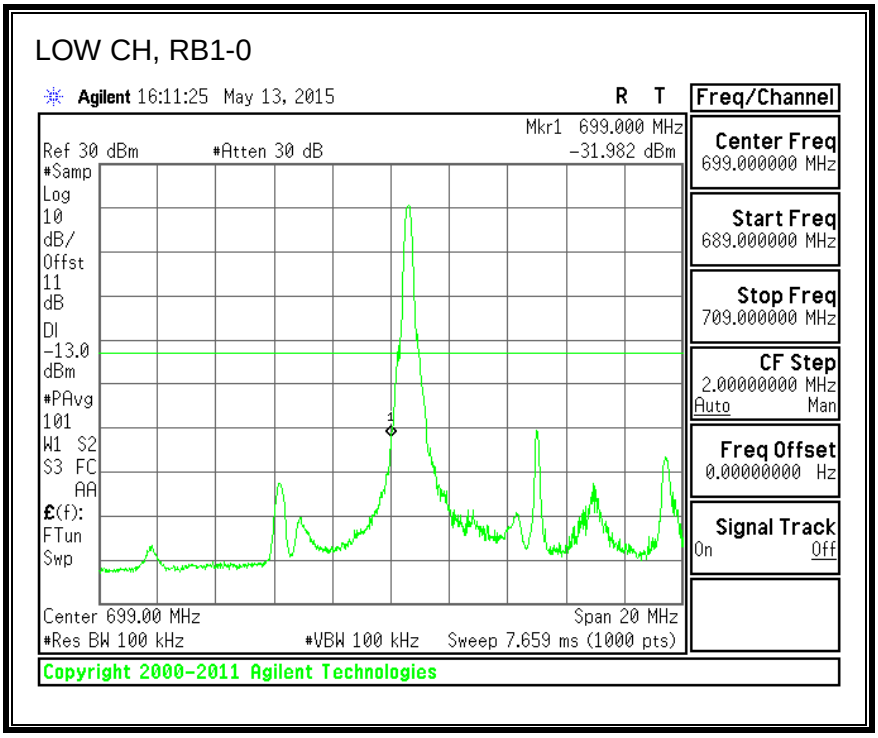
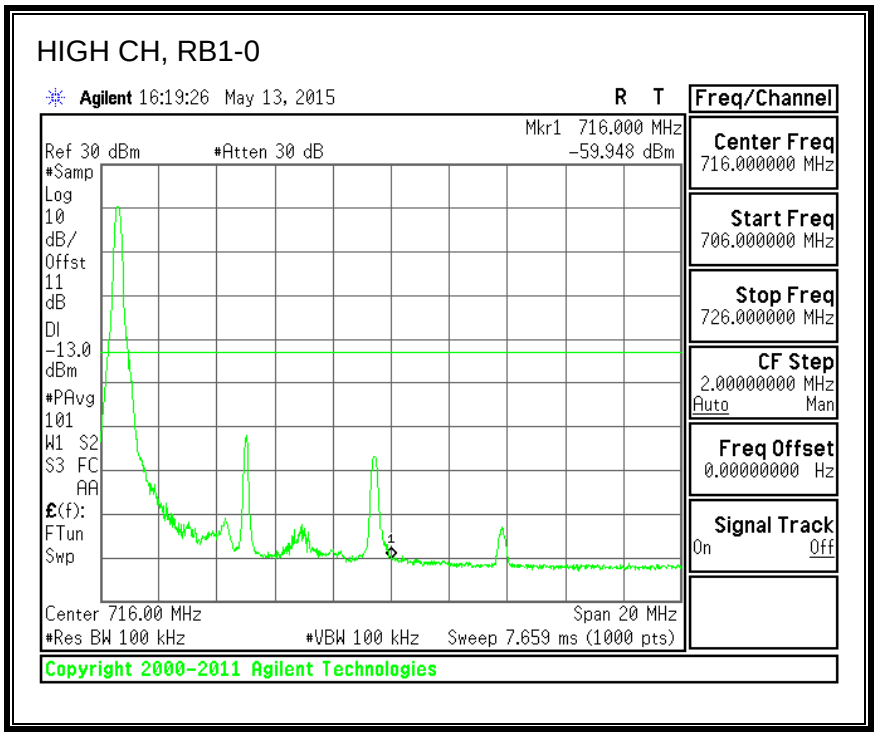
16QAM, (10.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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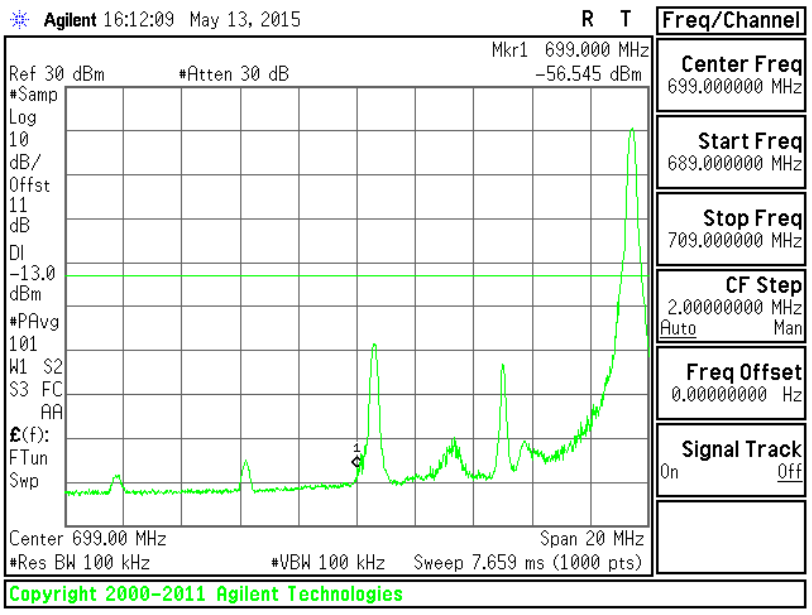
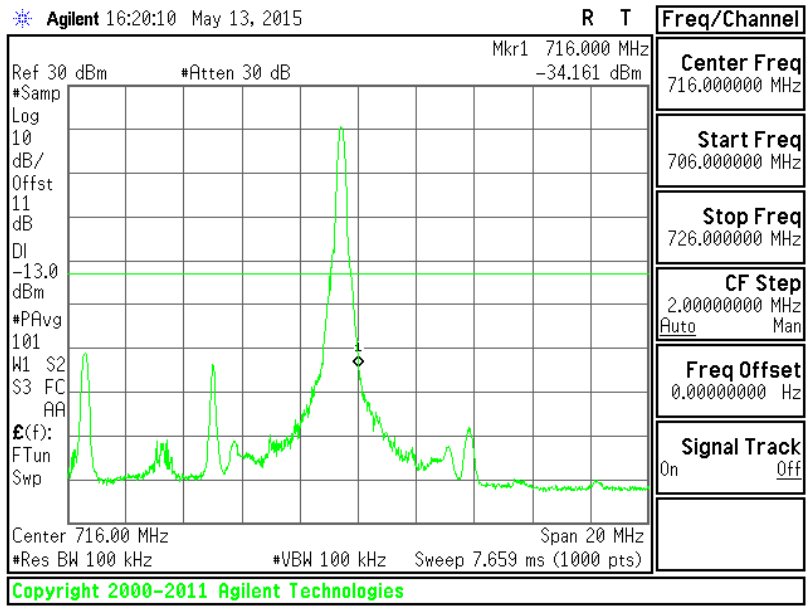
LOW CH, RB1-49



HIGH CH, RB1-49



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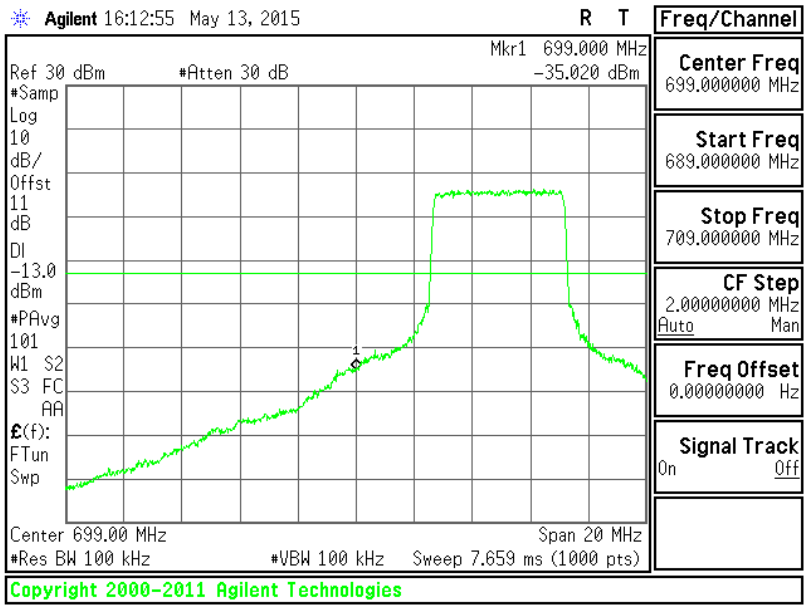
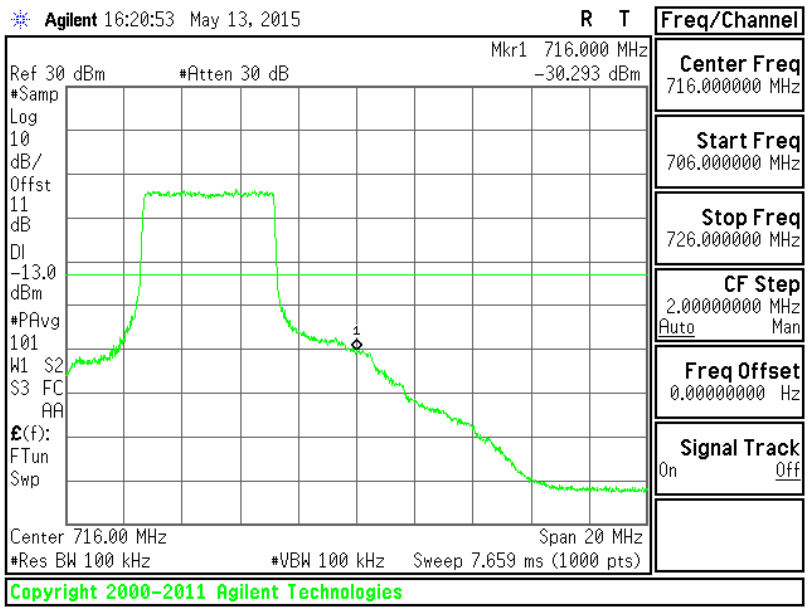
LOW CH, RB25-12



HIGH CH, RB25-12



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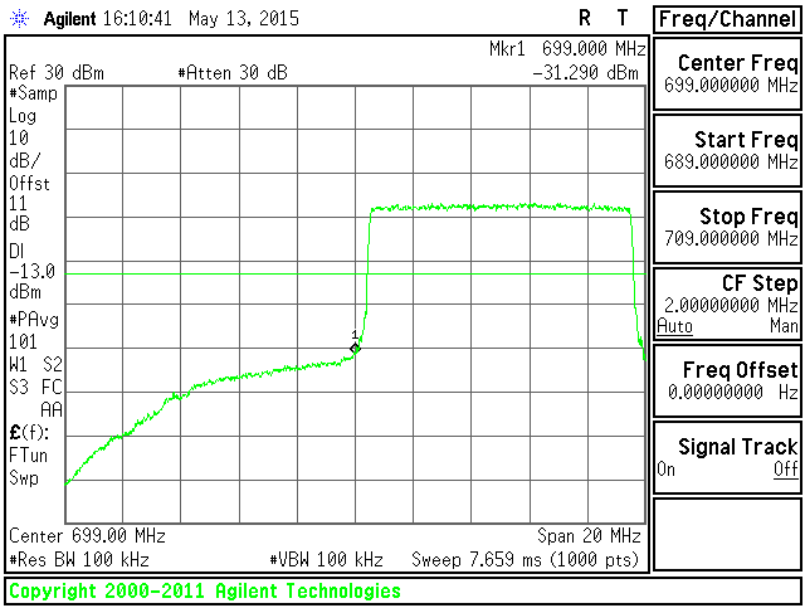
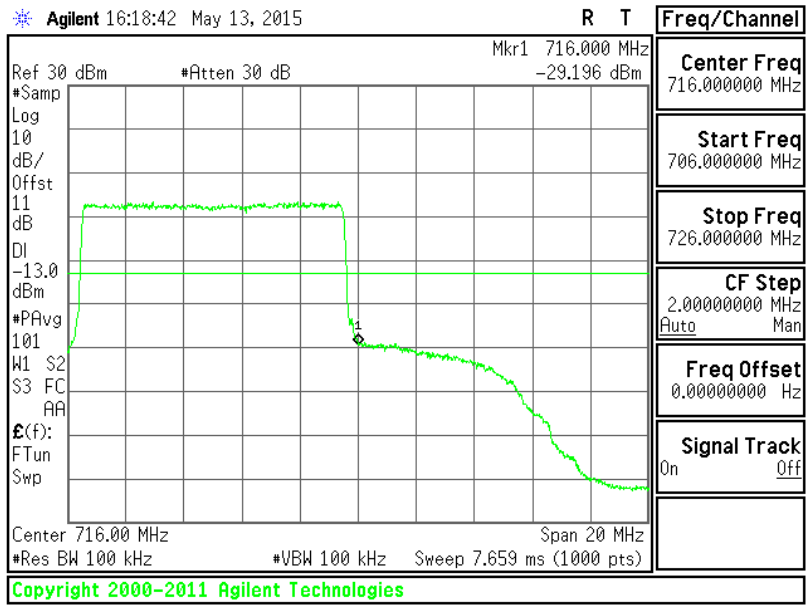
LOW CH, RB50-0



HIGH CH, RB50-0



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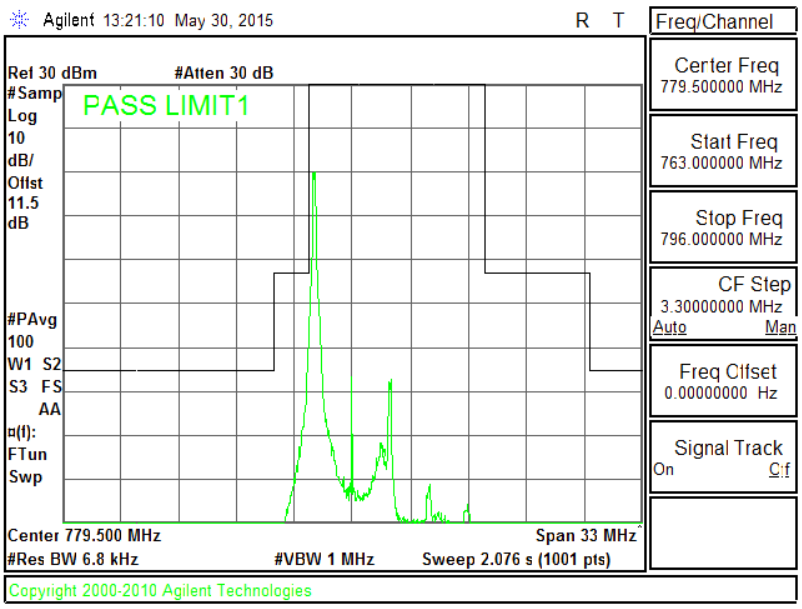
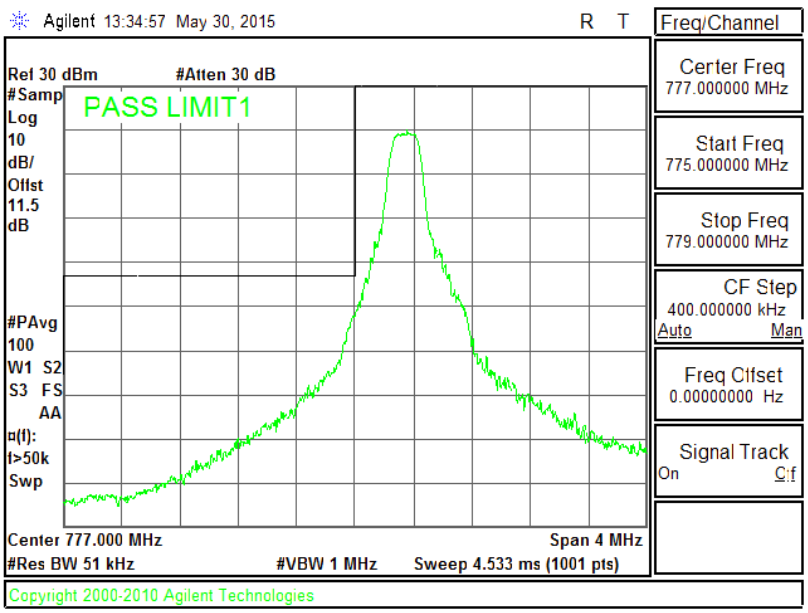
8.4.6. LTE BAND 13 EMISSION MASK

QPSK, (5.0 MHz BAND WIDTH)

RB1-0



LOW CH, RB1-0 Zoom in



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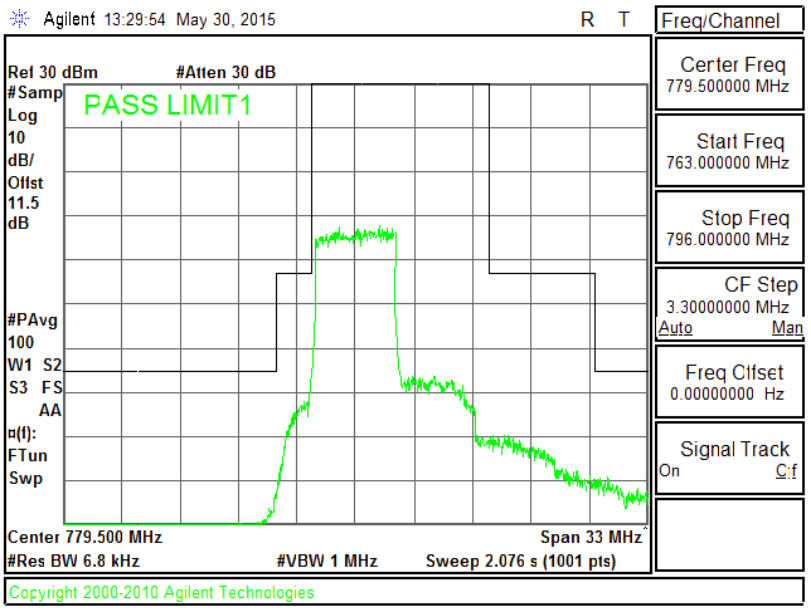
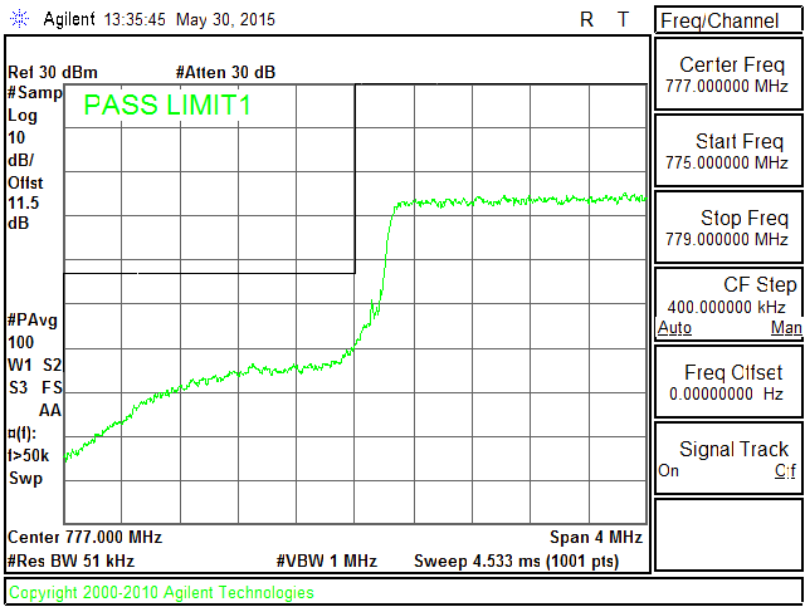
LOW CH, RB25-0



LOW CH, RB25-0 Zoom in



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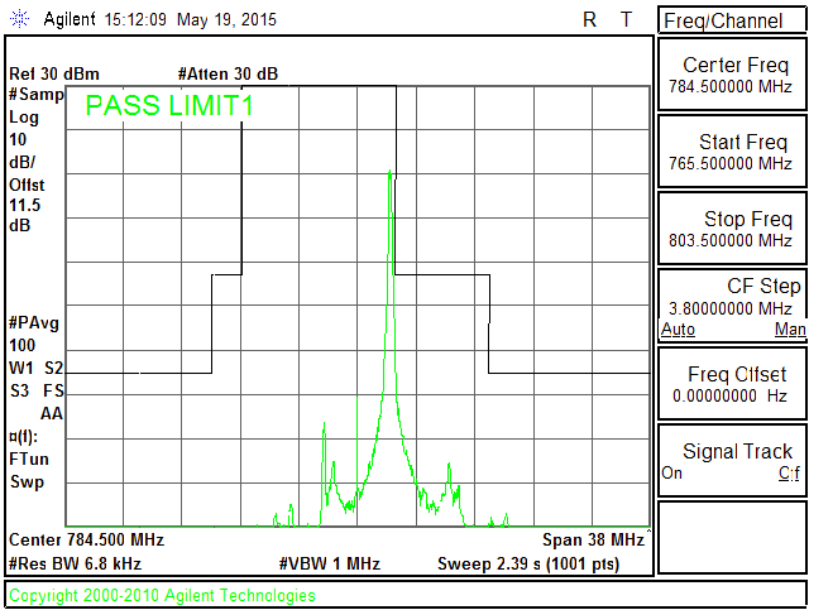
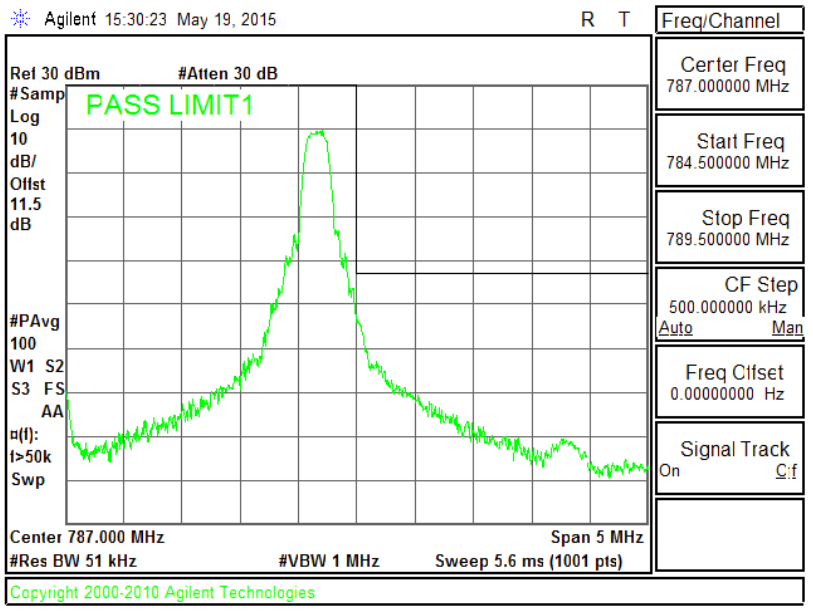
HIGH CH, RB1-24



HIGH CH, RB1-24 Zoom in



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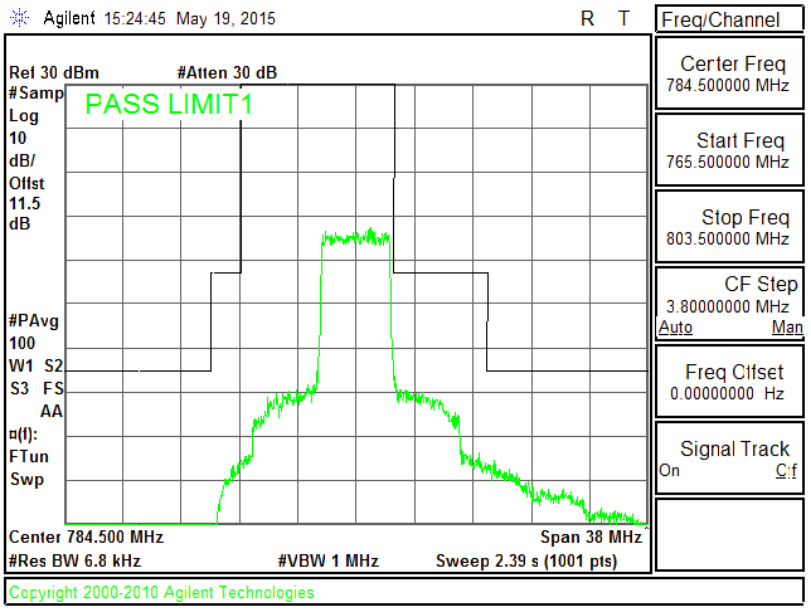
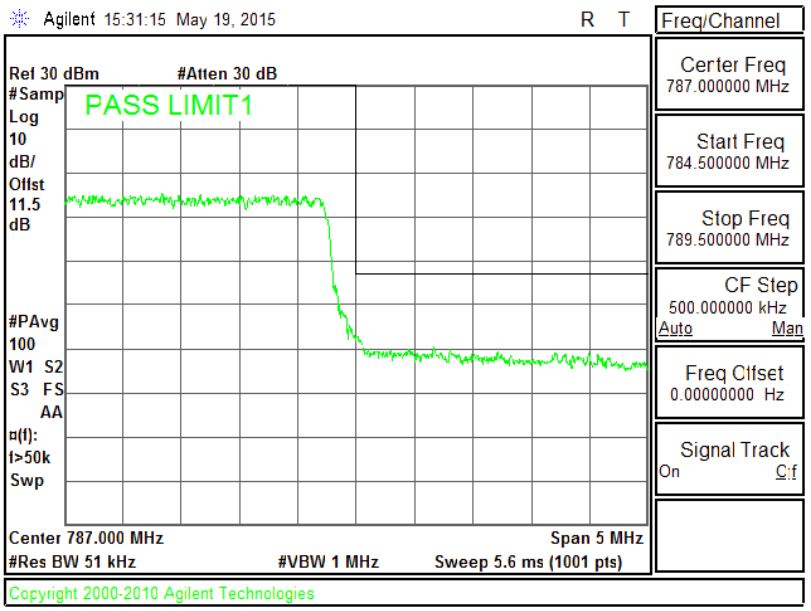
HIGH CH, RB25-0



HIGH CH, RB25-0 Zoom in



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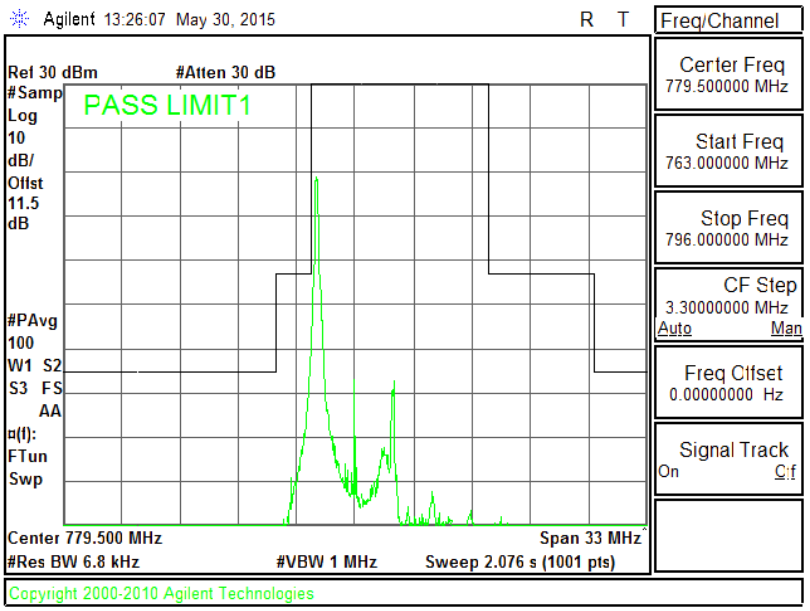
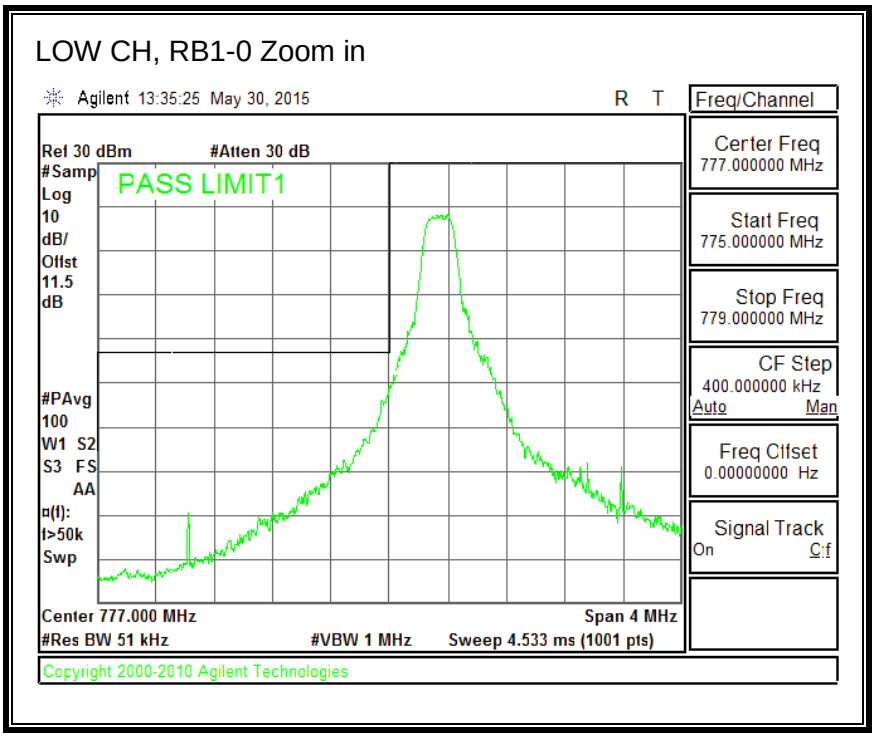
16QAM, (5.0 MHz BAND WIDTH)

LOW CH, RB1-0



LOW CH, RB1-0 Zoom in



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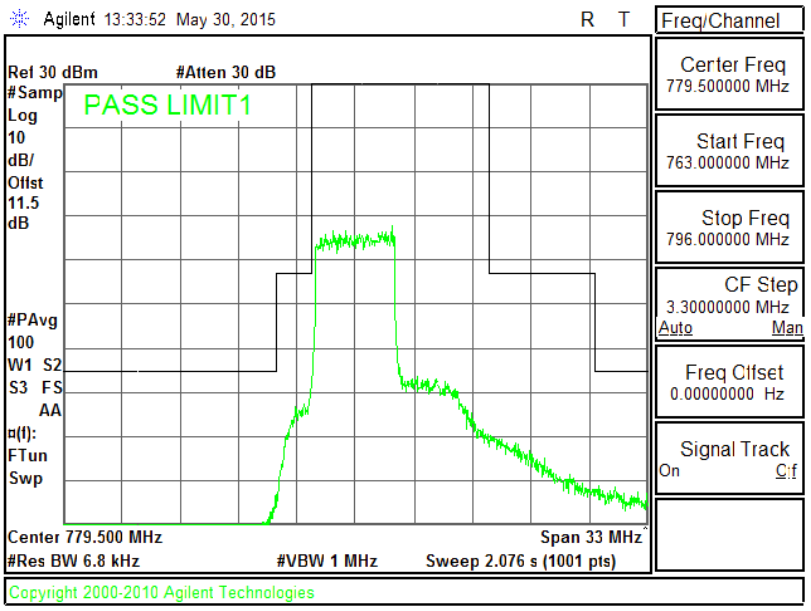
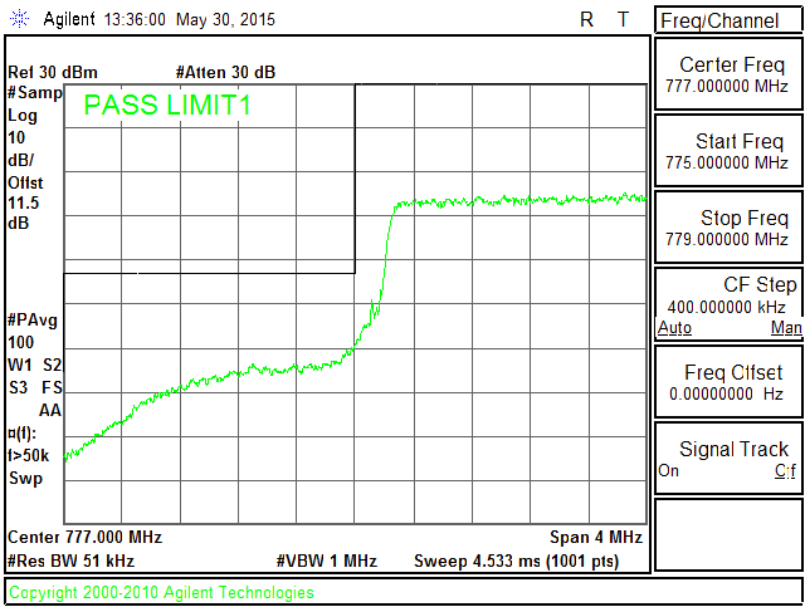
LOW CH, RB25-0



LOW CH, RB25-0 Zoom in



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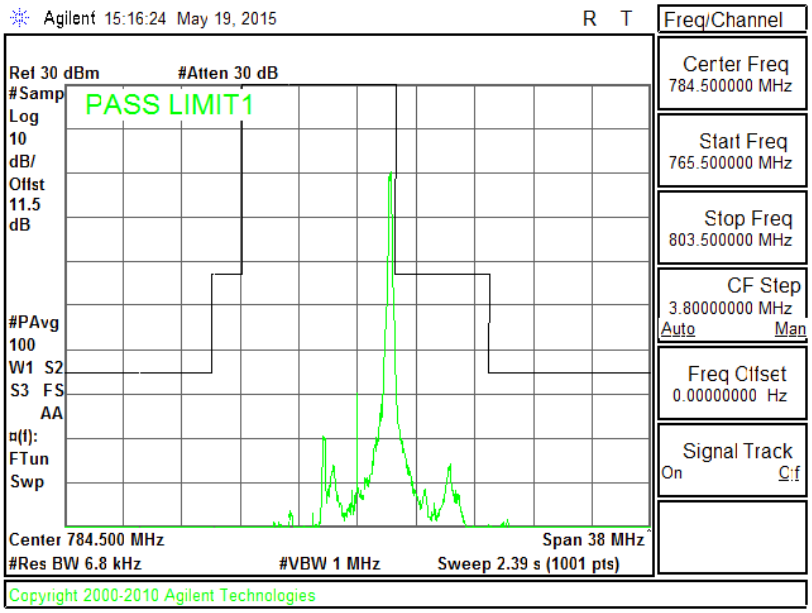
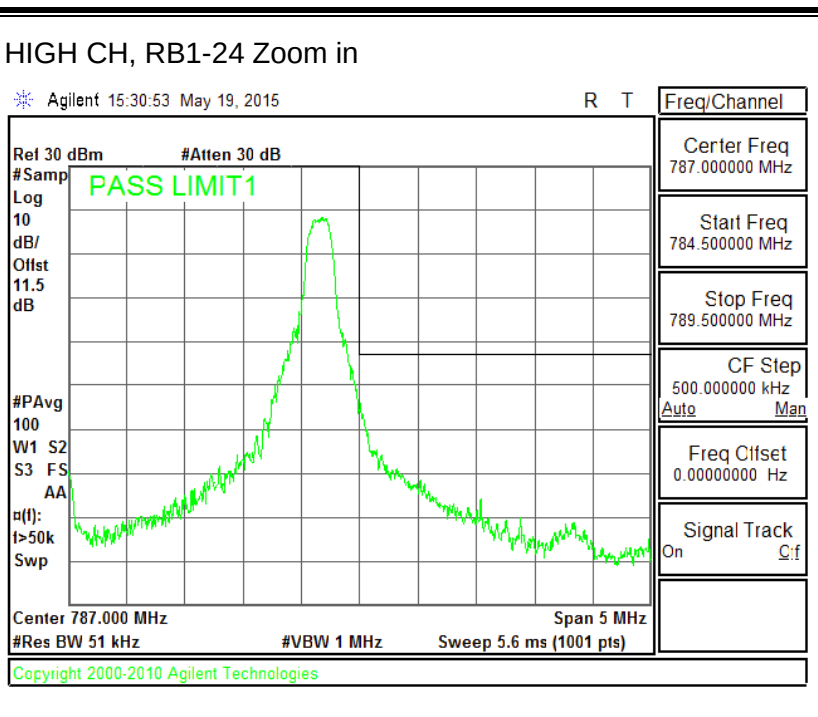
HIGH CH, RB1-24



HIGH CH, RB1-24 Zoom in



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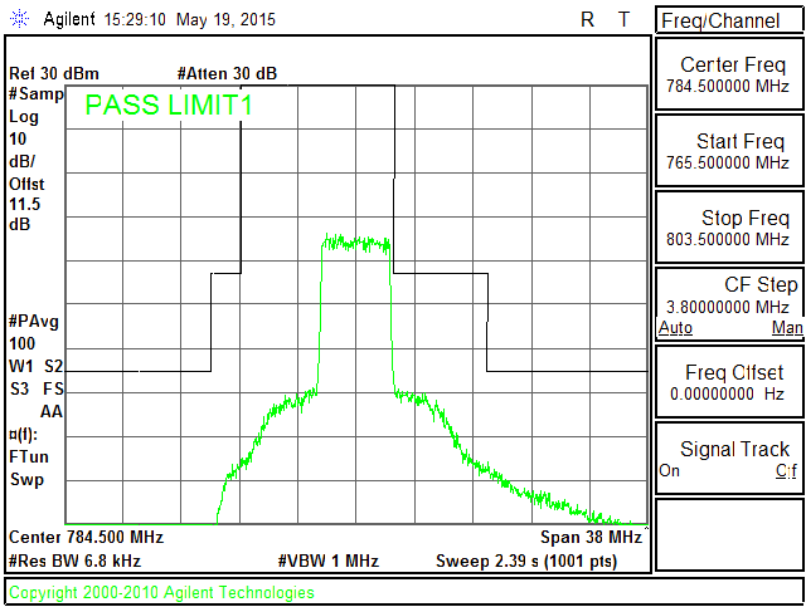
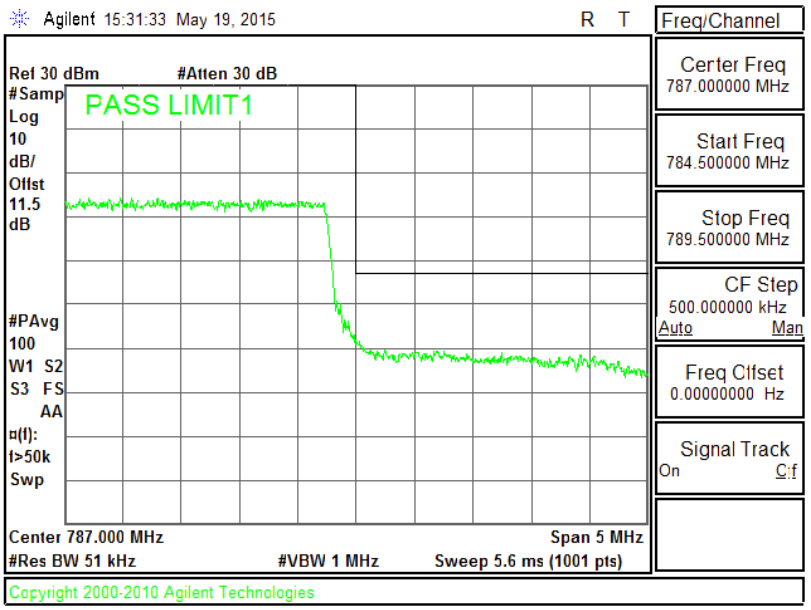
HIGH CH, RB25-0



HIGH CH, RB25-0 Zoom in



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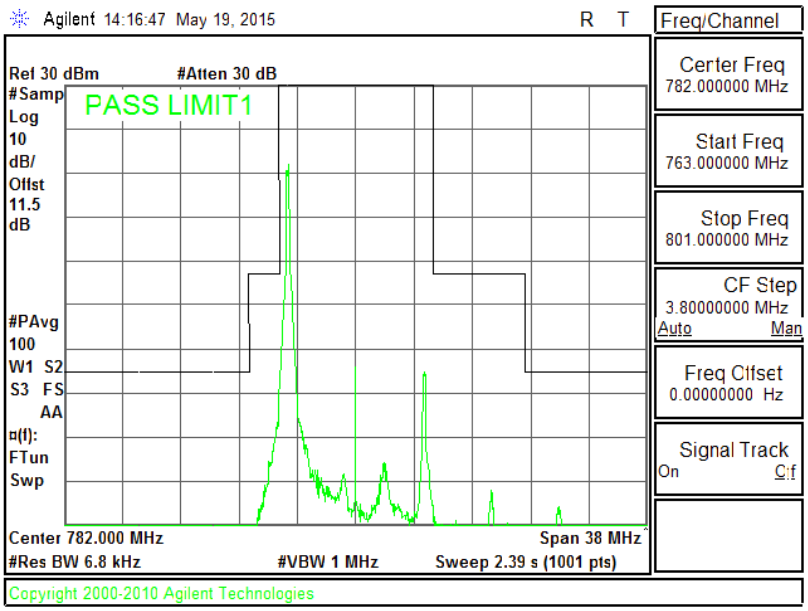
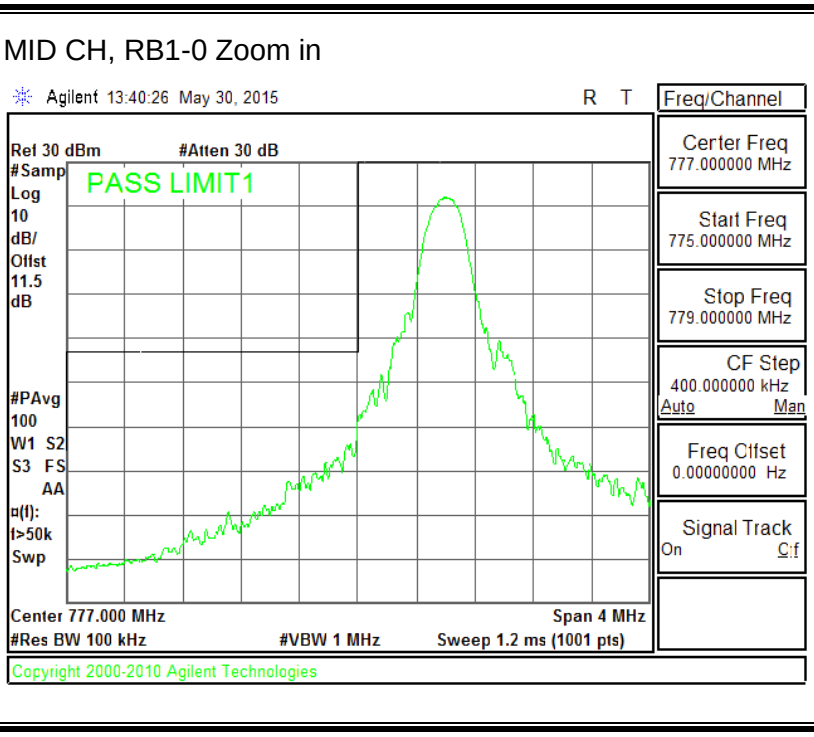
QPSK, (10.0 MHz BAND WIDTH)

MID CH, RB1-0



MID CH, RB1-0 Zoom in



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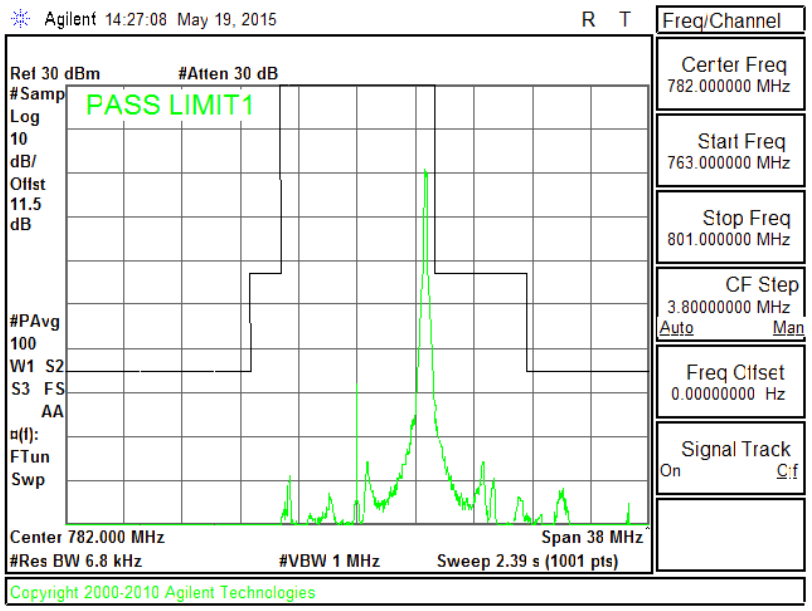
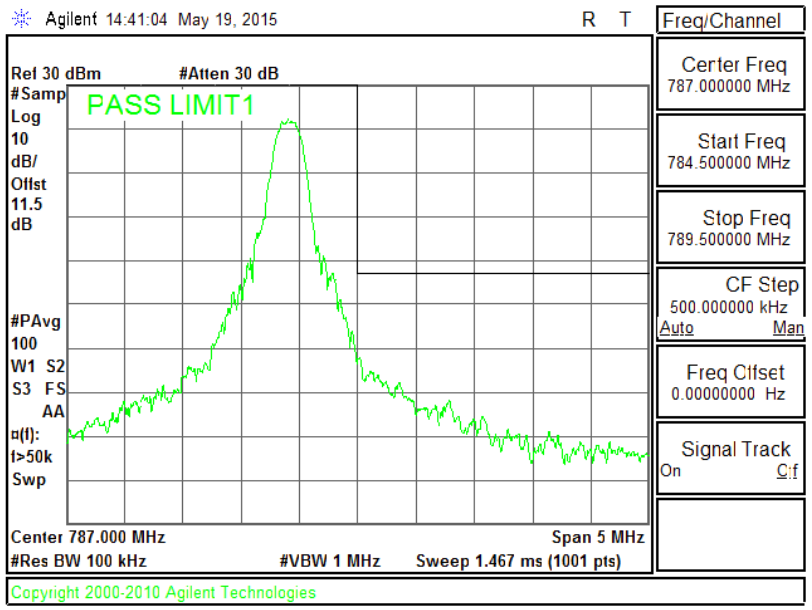
MID CH, RB1-49



MID CH, RB1-49 Zoom in



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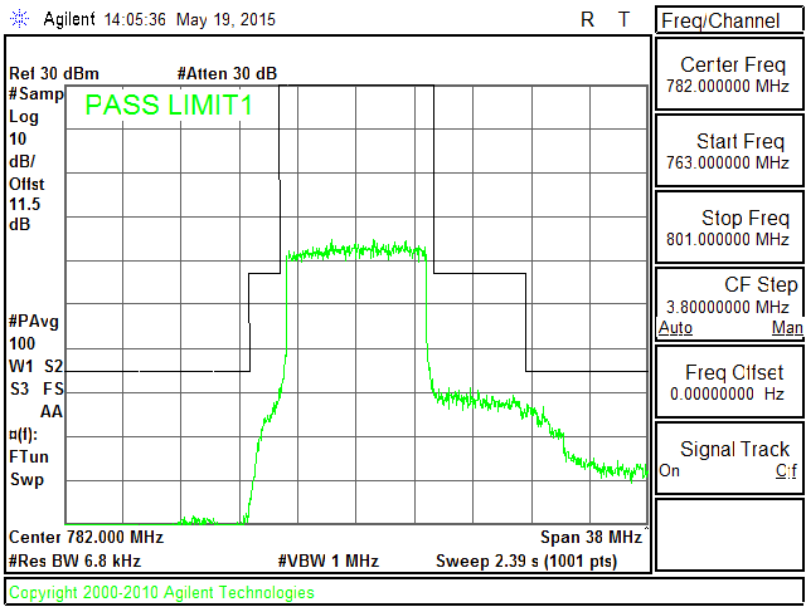
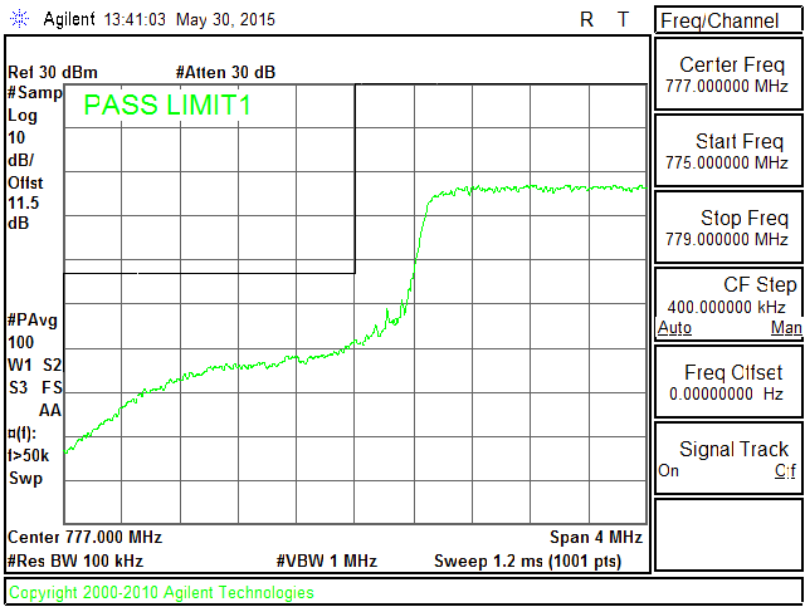
MID CH, RB50-1



MID CH, RB50-1 Low side Zoom in



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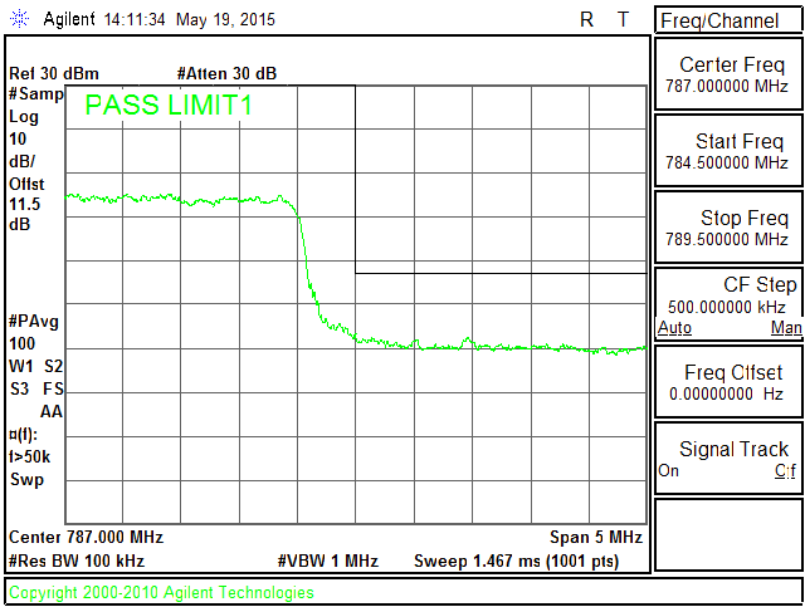
MID CH, RB50-1 High side Zoom in



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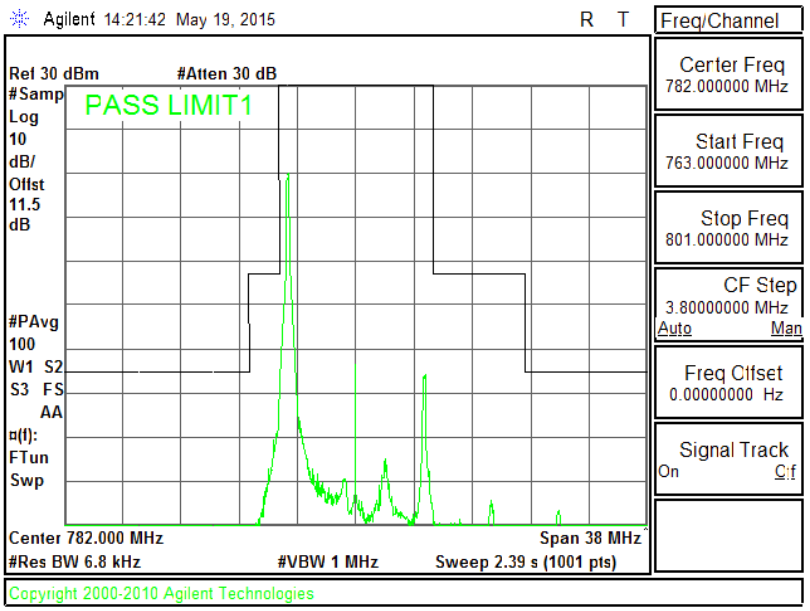
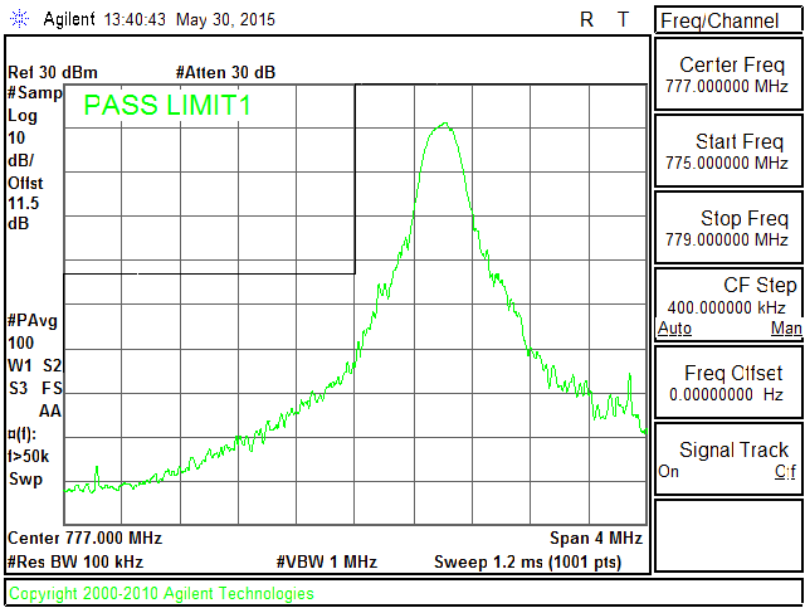
16QAM, (10.0 MHz BAND WIDTH)

MID CH, RB1-0



MID CH, RB1-0 Zoom in



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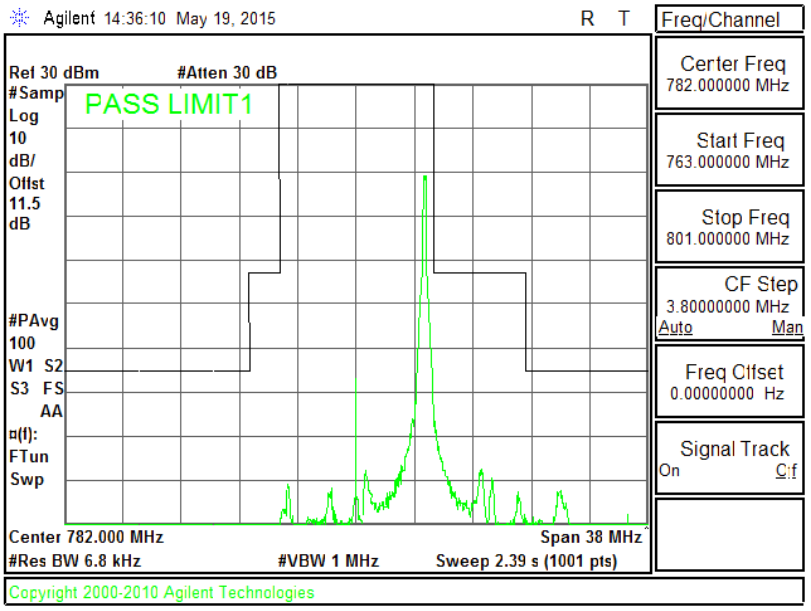
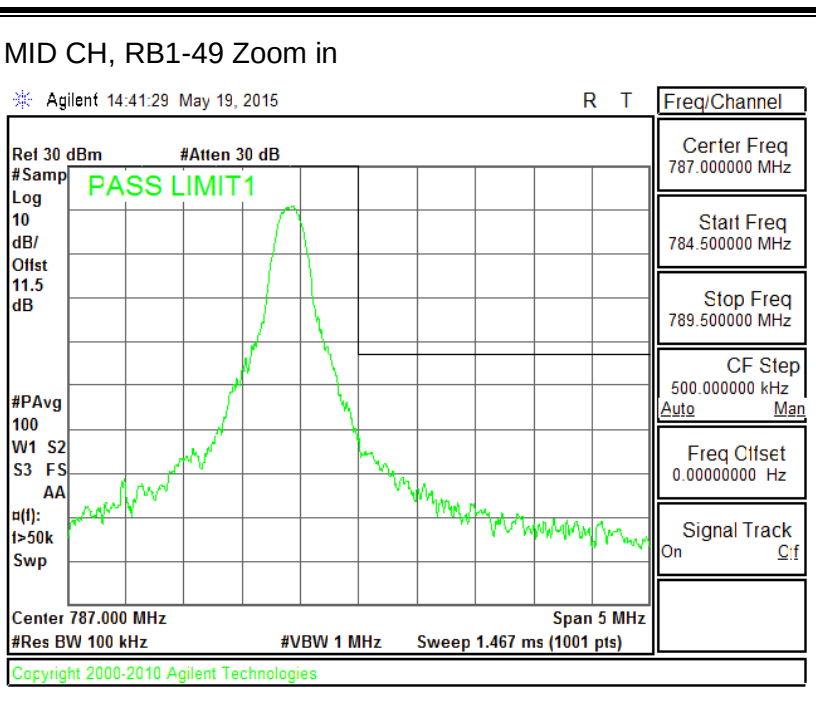
MID CH, RB1-49



MID CH, RB1-49 Zoom in



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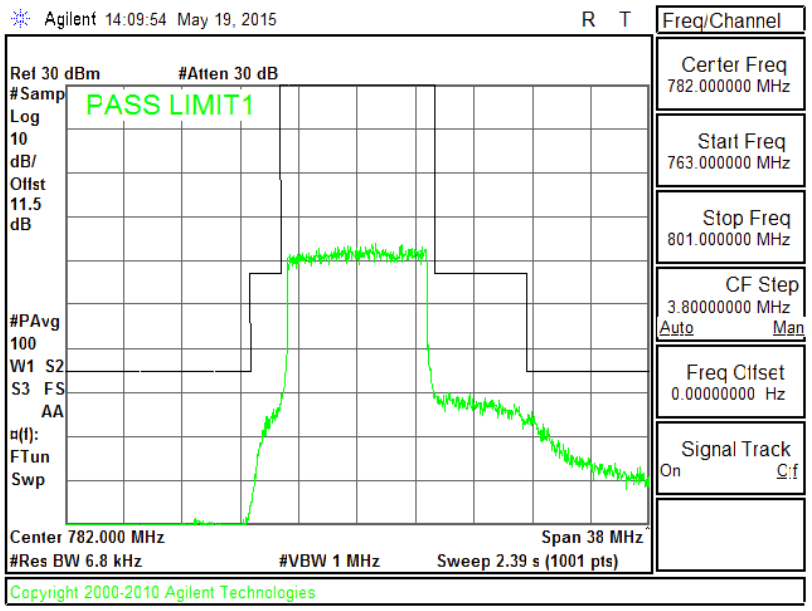
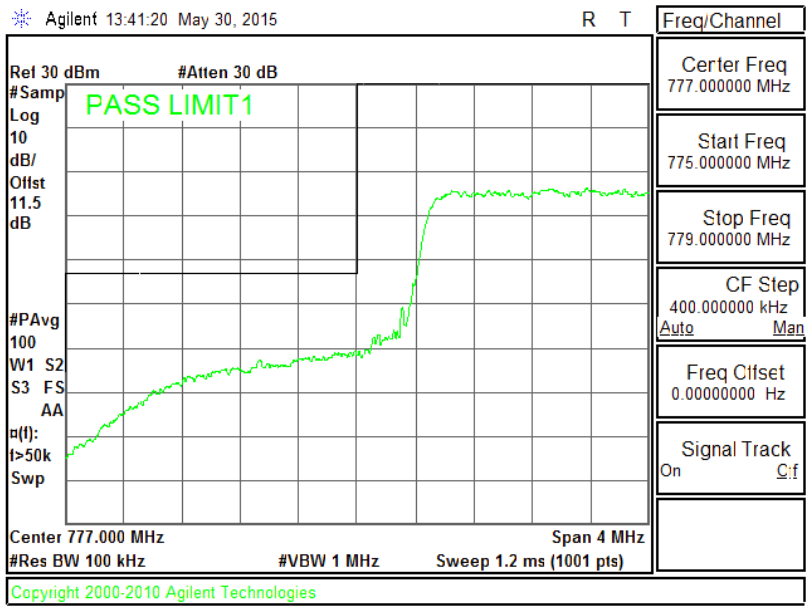
MID CH, RB50-1



MID CH, RB50-1 Low side Zoom in



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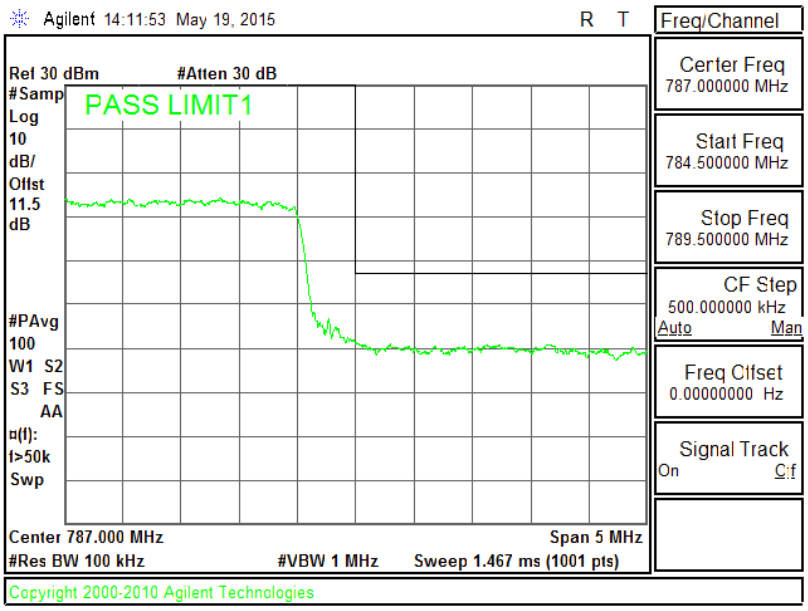
MID CH, RB50-1 High side Zoom in



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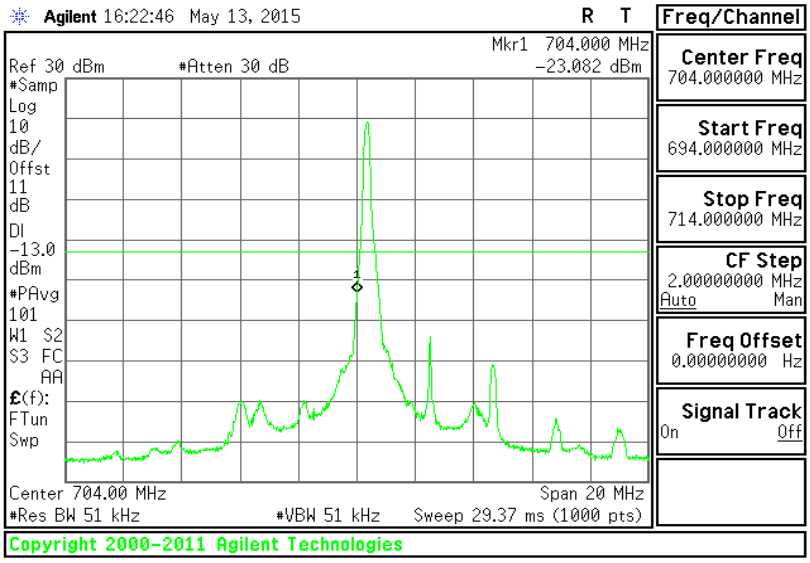
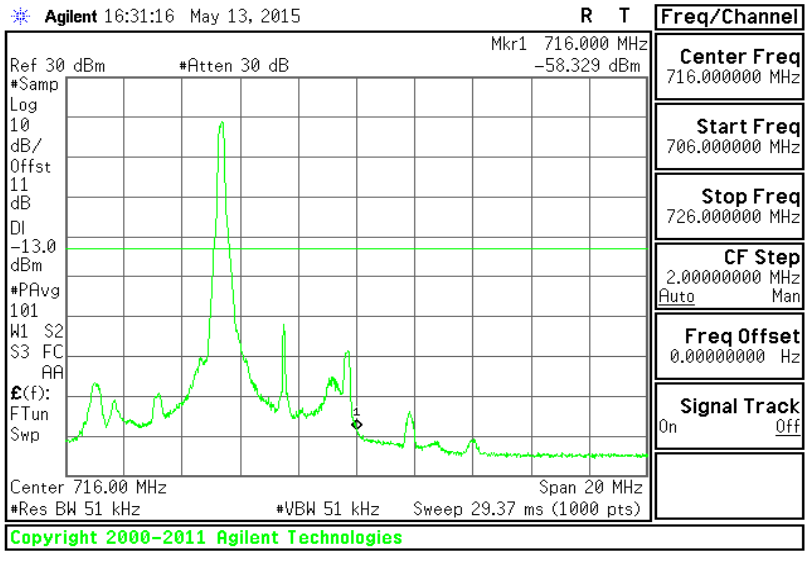
8.4.7. LTE BAND 17 BANDEDGE

QPSK, (5.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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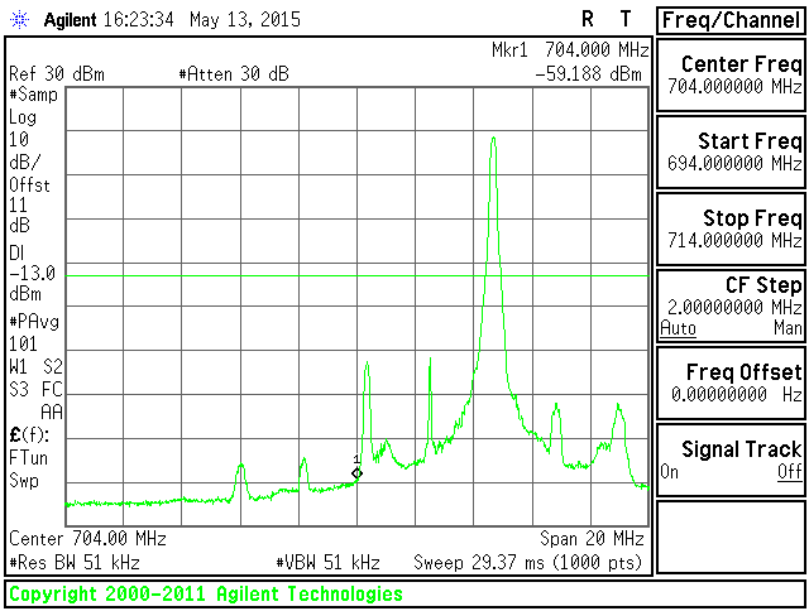
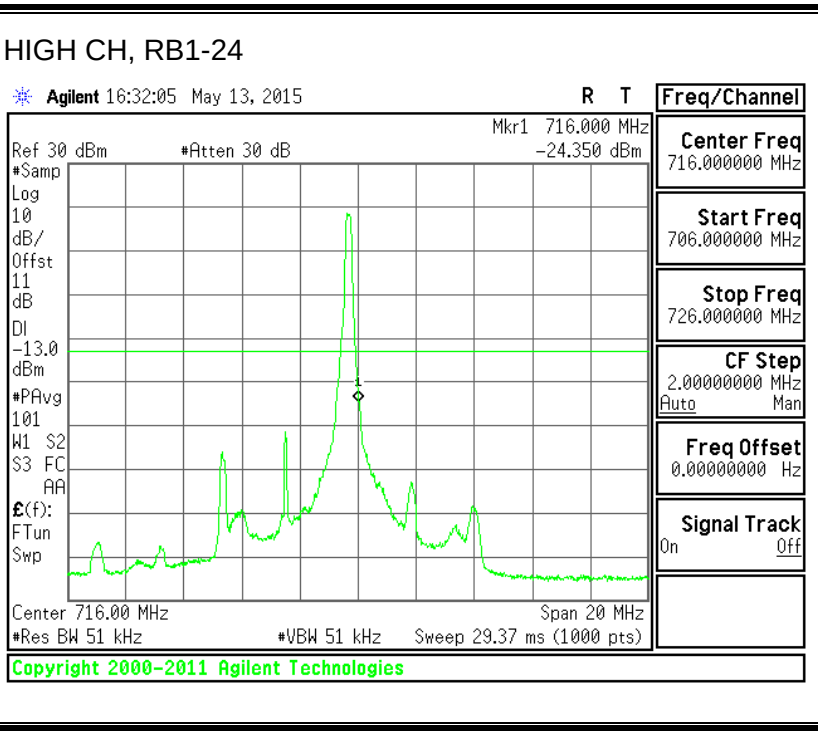
LOW CH, RB1-24



HIGH CH, RB1-24



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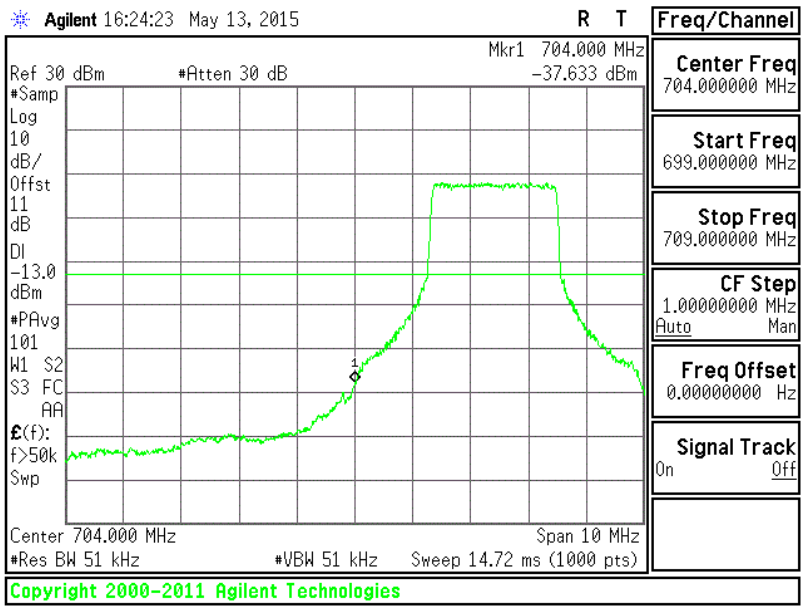
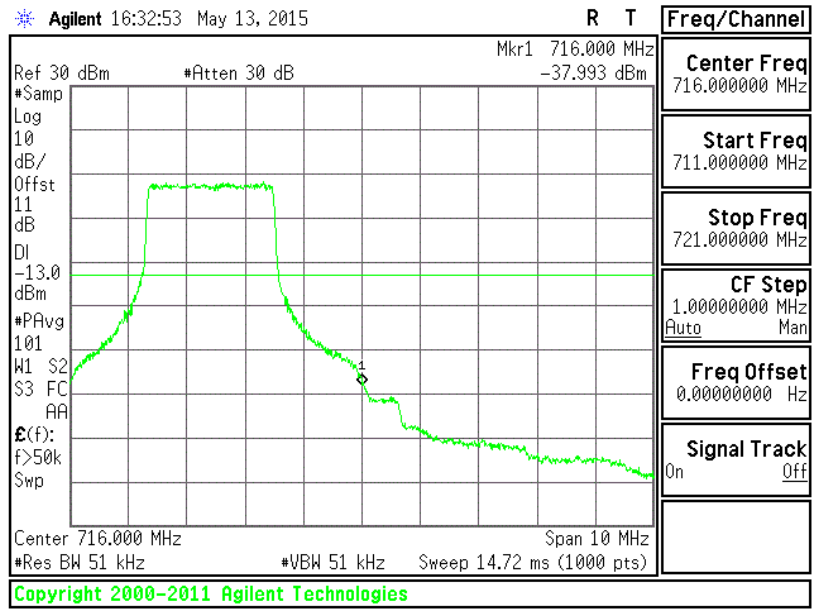
LOW CH, RB12-6



HIGH CH, RB12-6



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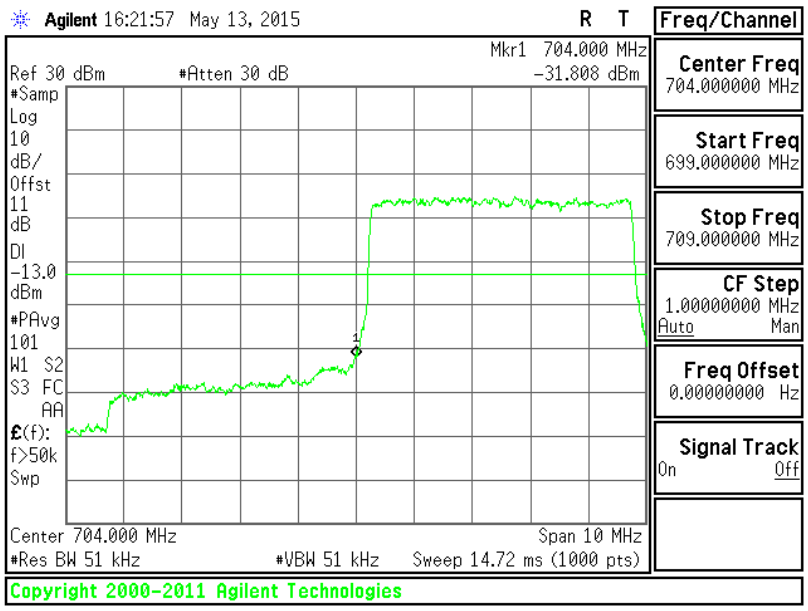
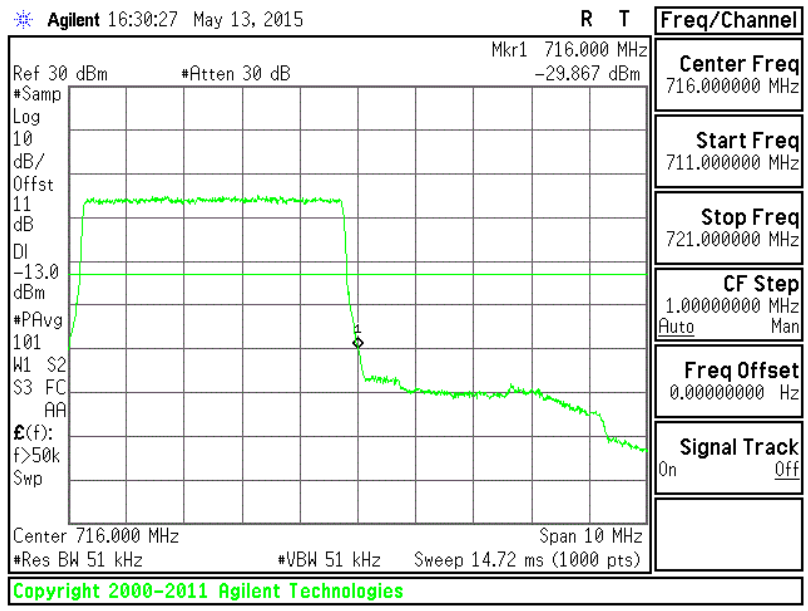
LOW CH, RB25-0



HIGH CH, RB25-0



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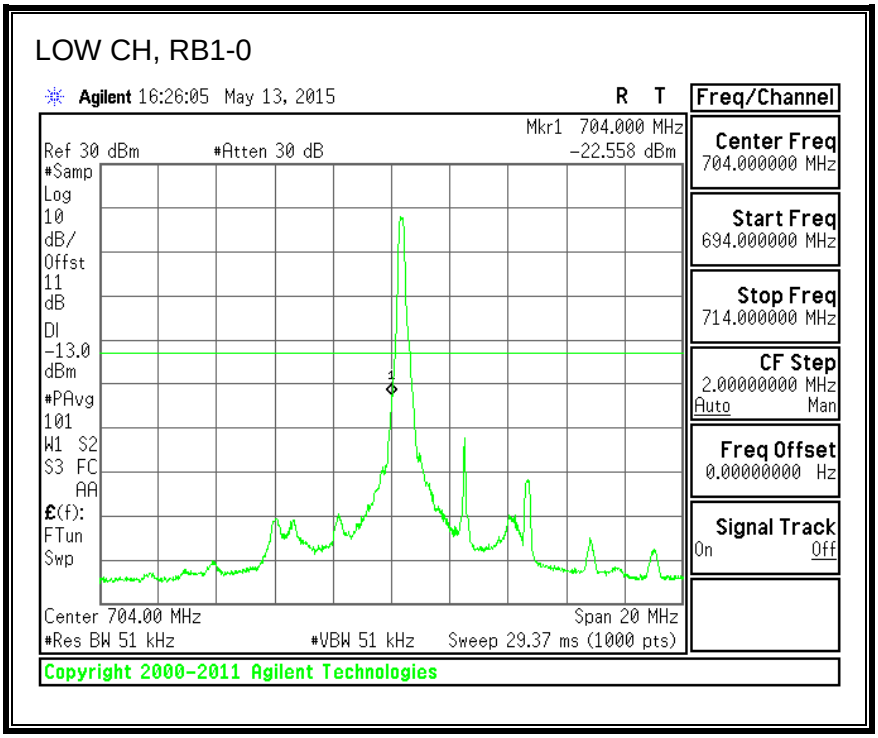
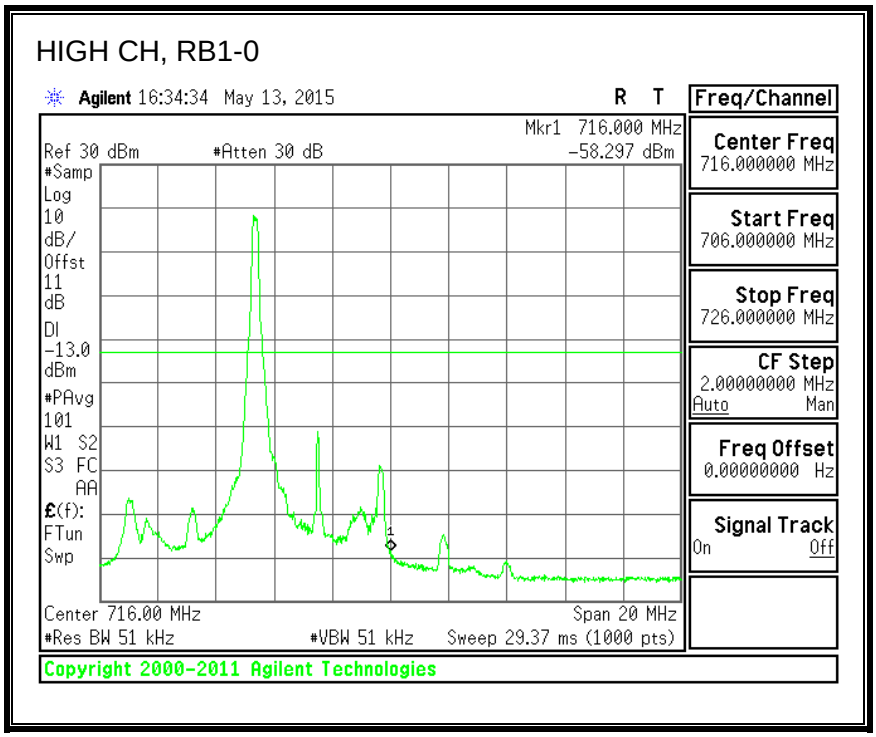
16QAM, (5.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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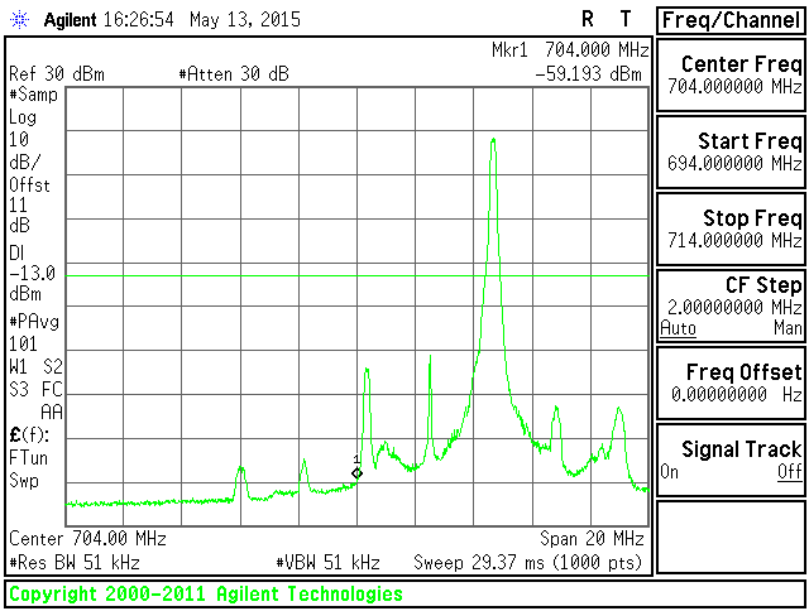
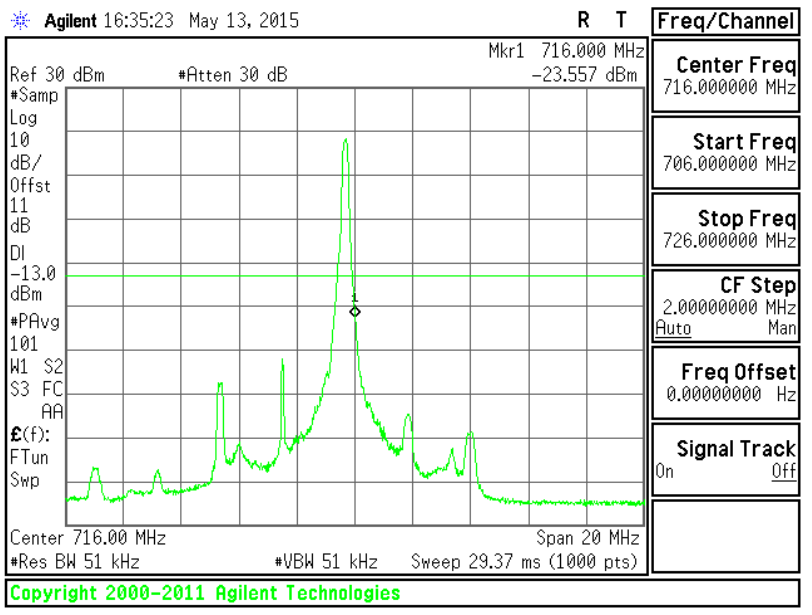
LOW CH, RB1-24



HIGH CH, RB1-24



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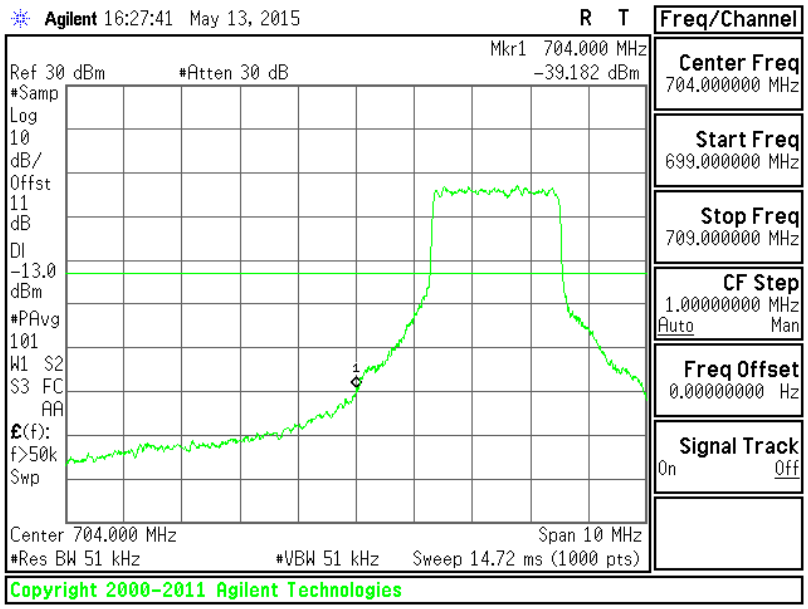
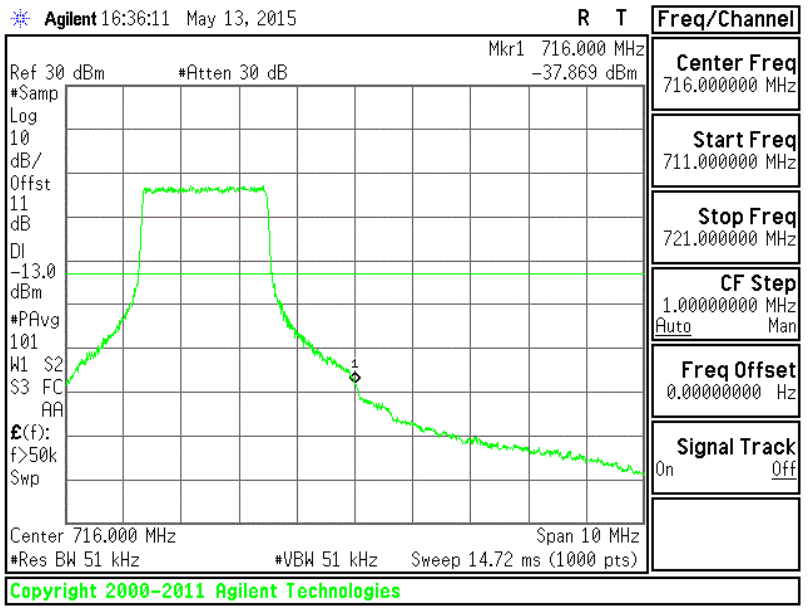
LOW CH, RB12-6



HIGH CH, RB12-6



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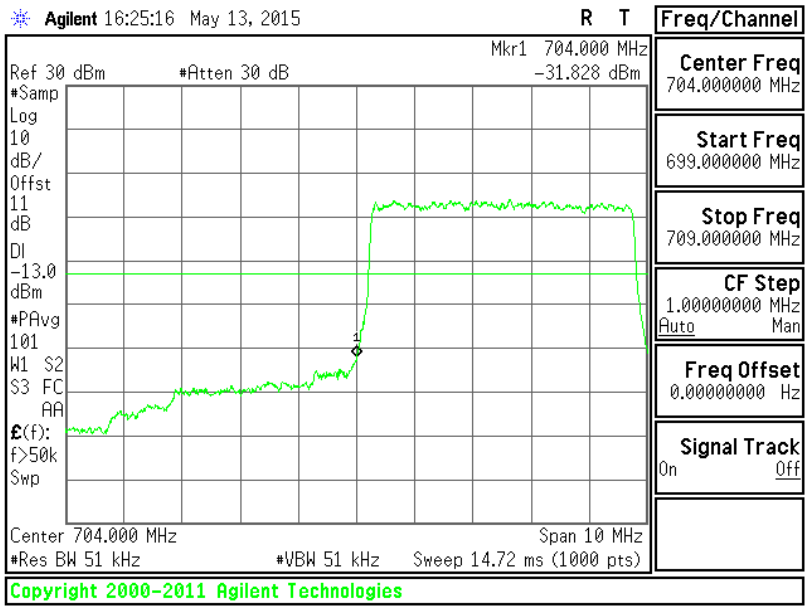
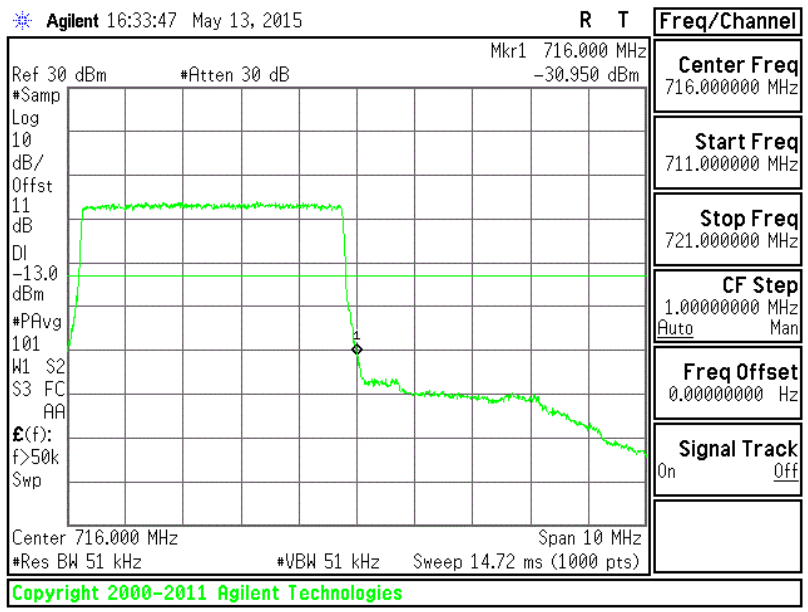
LOW CH, RB25-0



HIGH CH, RB25-0



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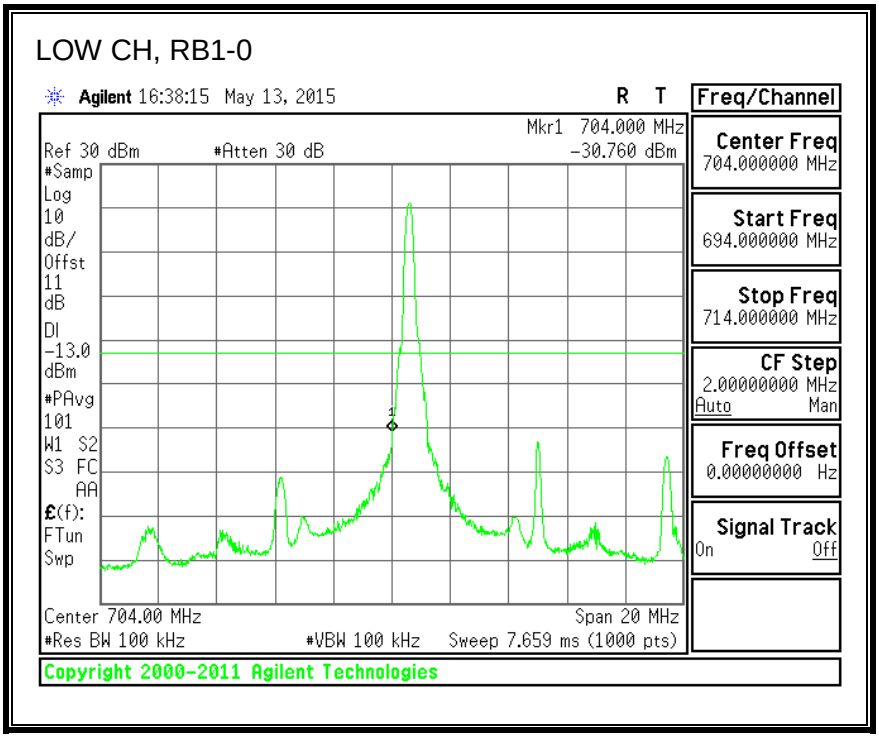
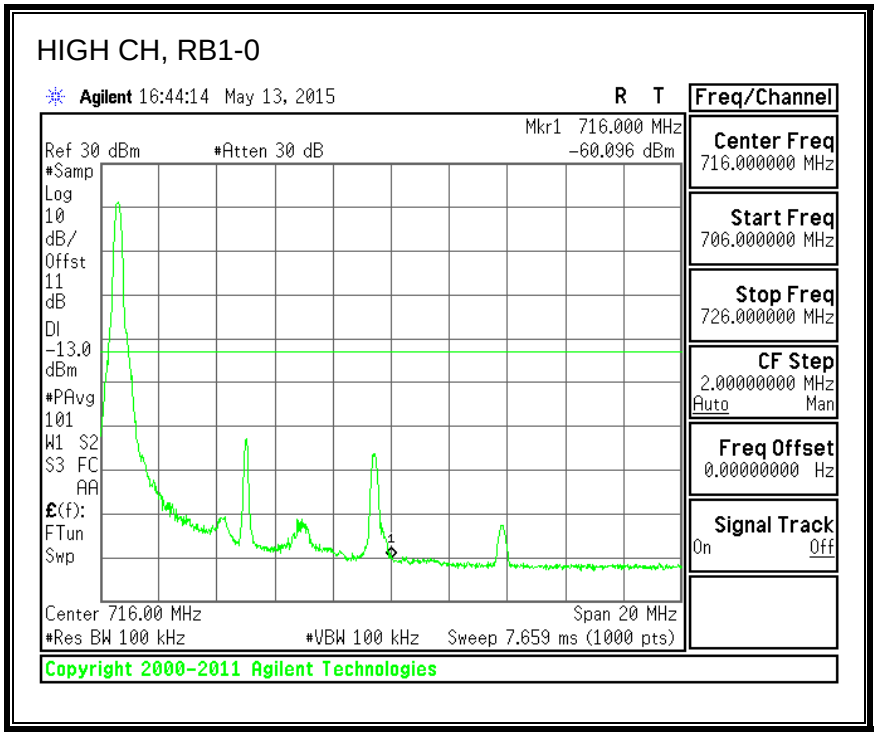
QPSK, (10.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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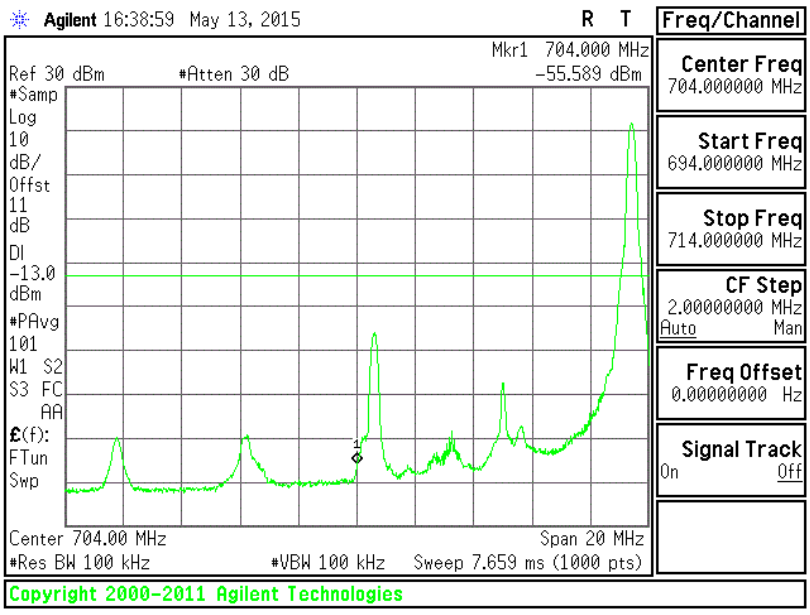
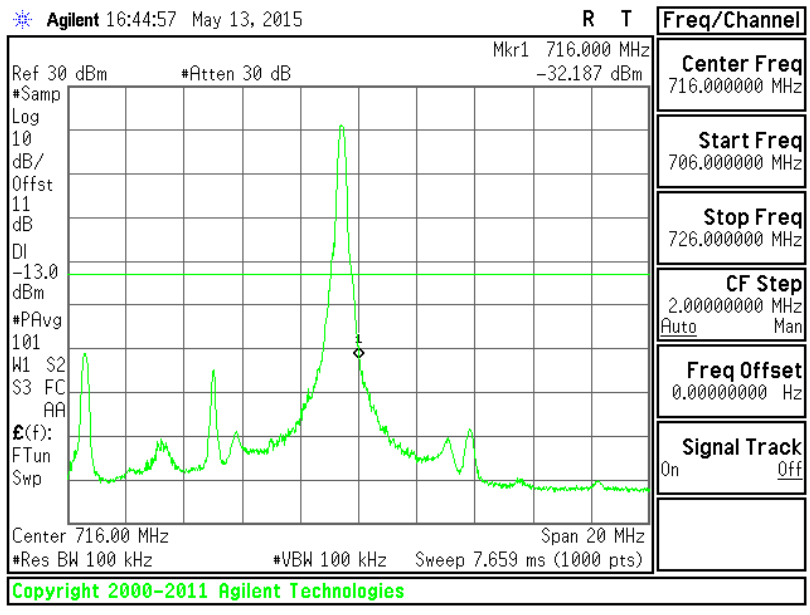
LOW CH, RB1-49



HIGH CH, RB1-49



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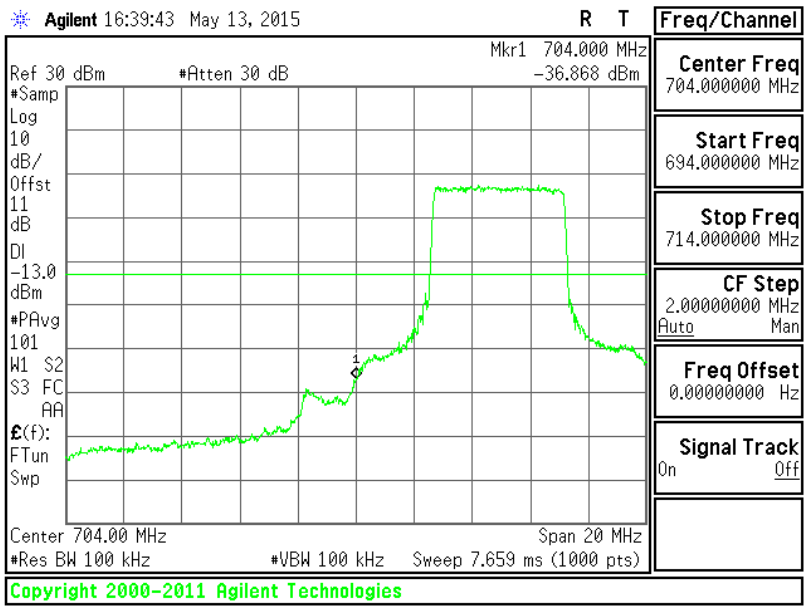
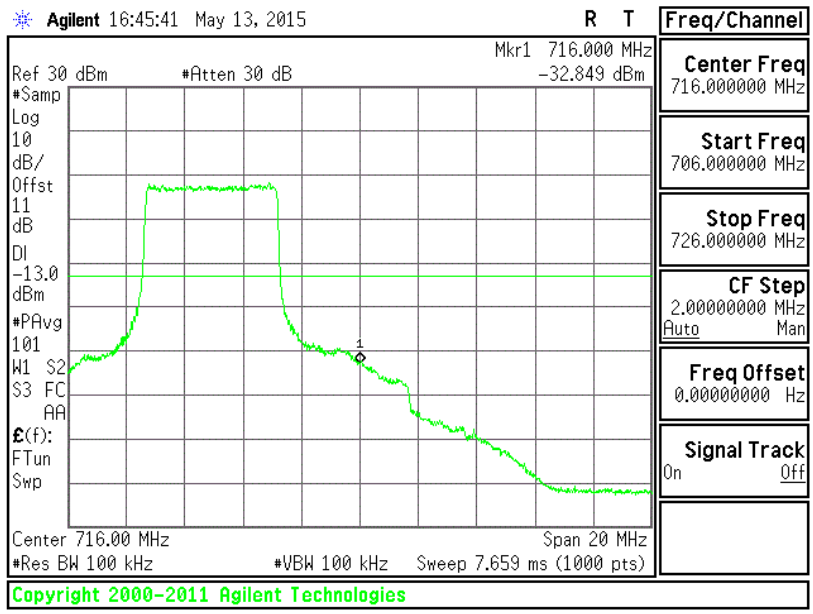
LOW CH, RB25-12



HIGH CH, RB25-12



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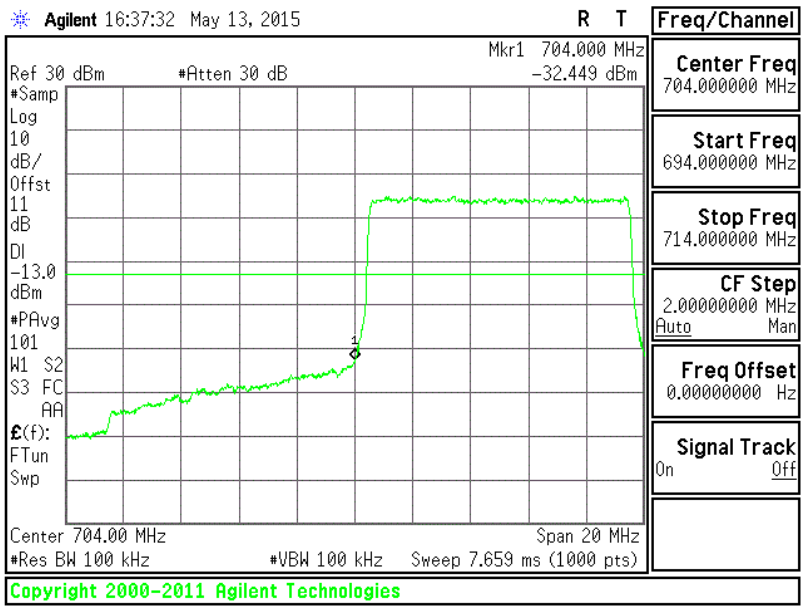
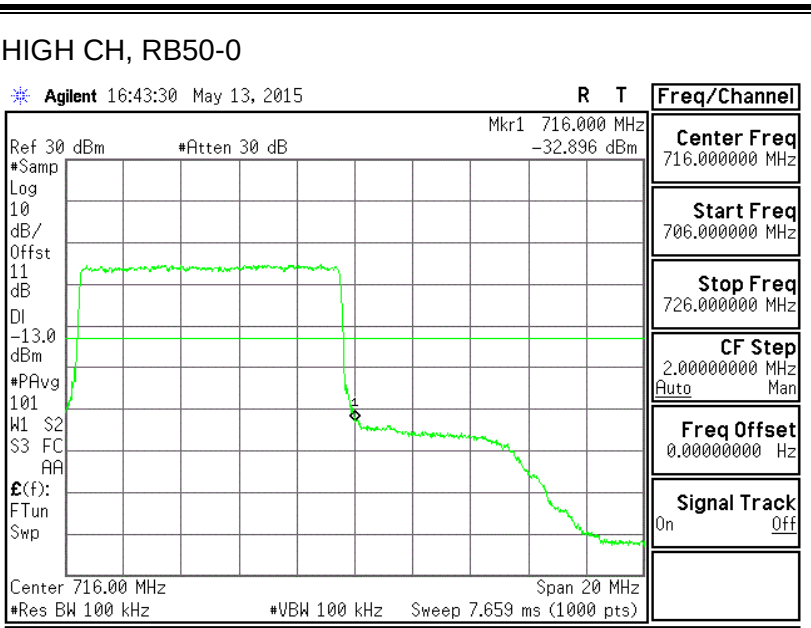
LOW CH, RB50-0



HIGH CH, RB50-0



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