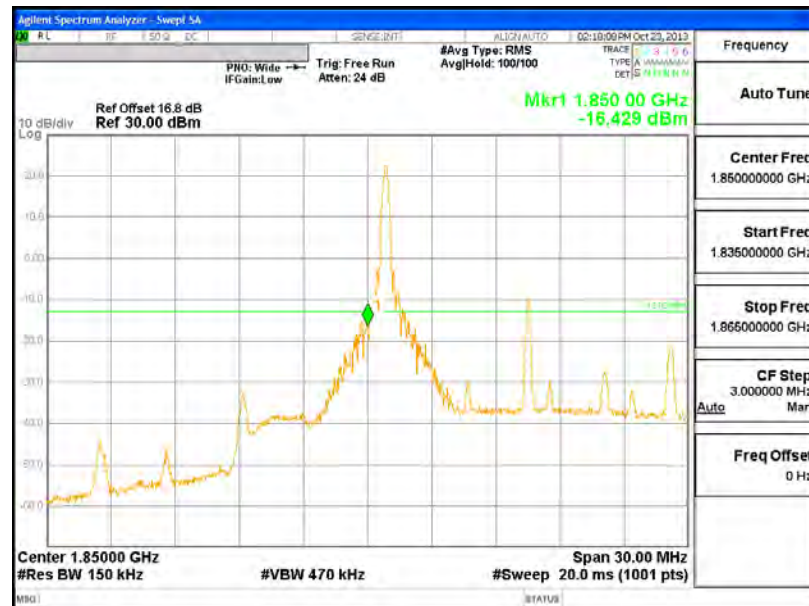
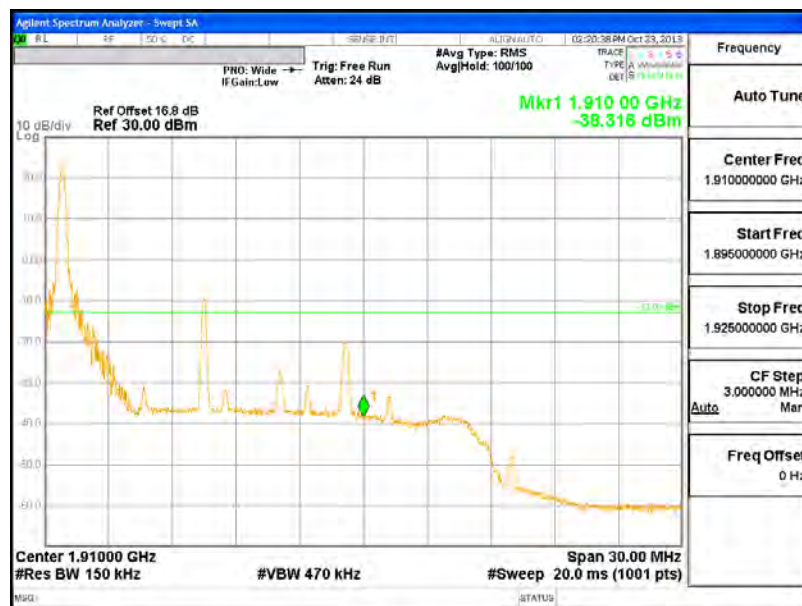
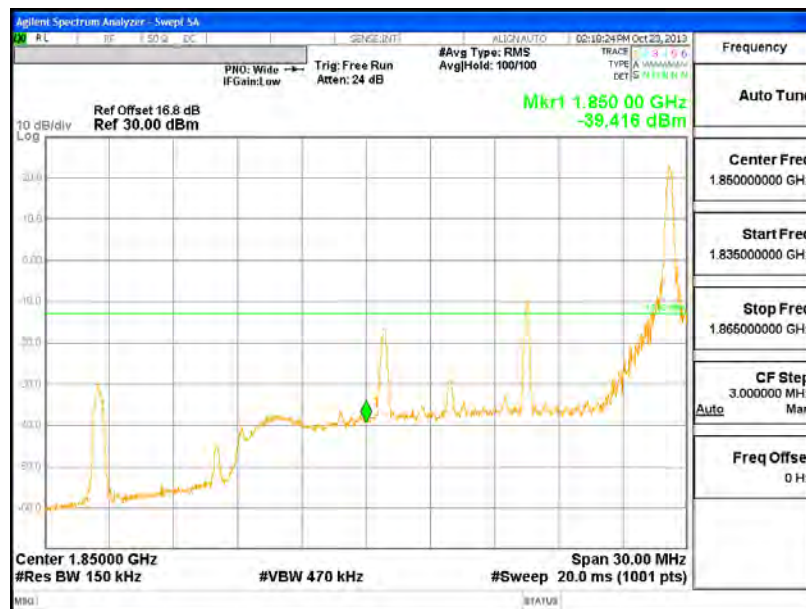
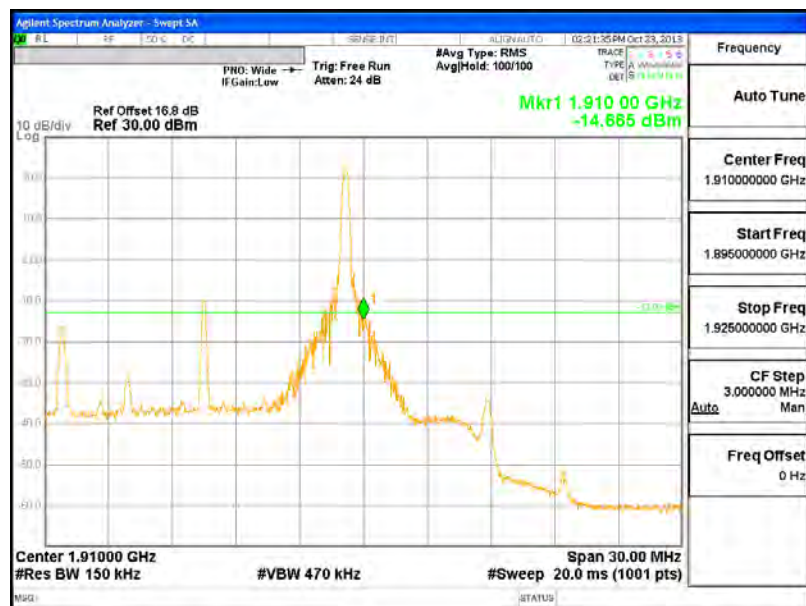


Band 2 (15MHz BANDWIDTH)**LTE QPSK****LOW CH, RB1_0****HIGH CH, RB1-0**

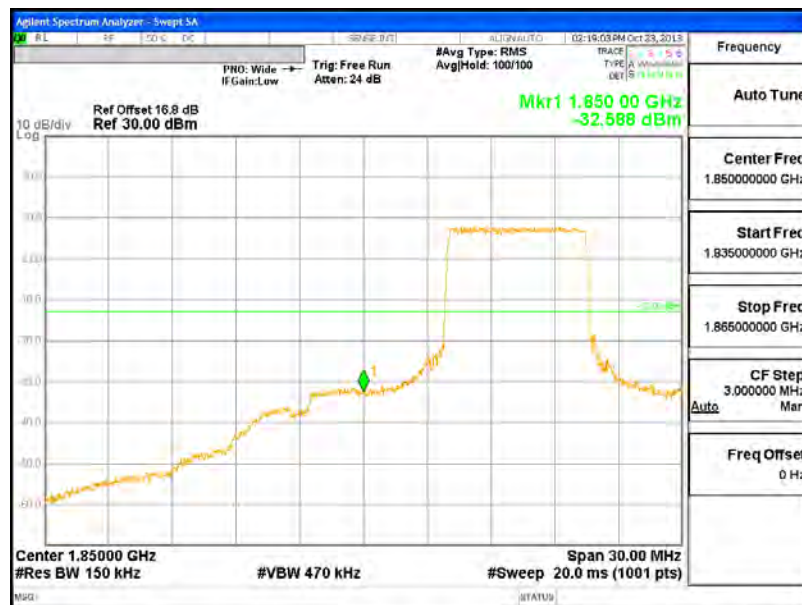
LOW CH, RB1-74



HIGH CH, RB1-74



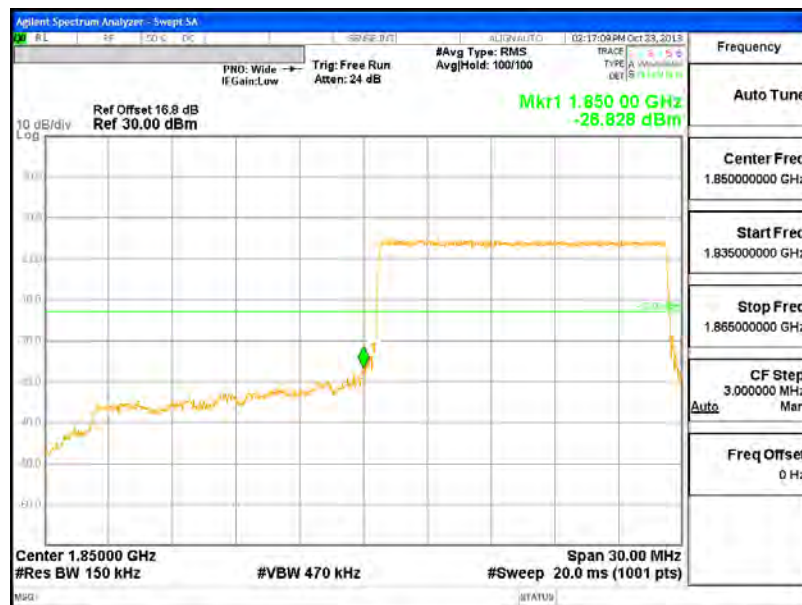
LOW CH, RB36-18



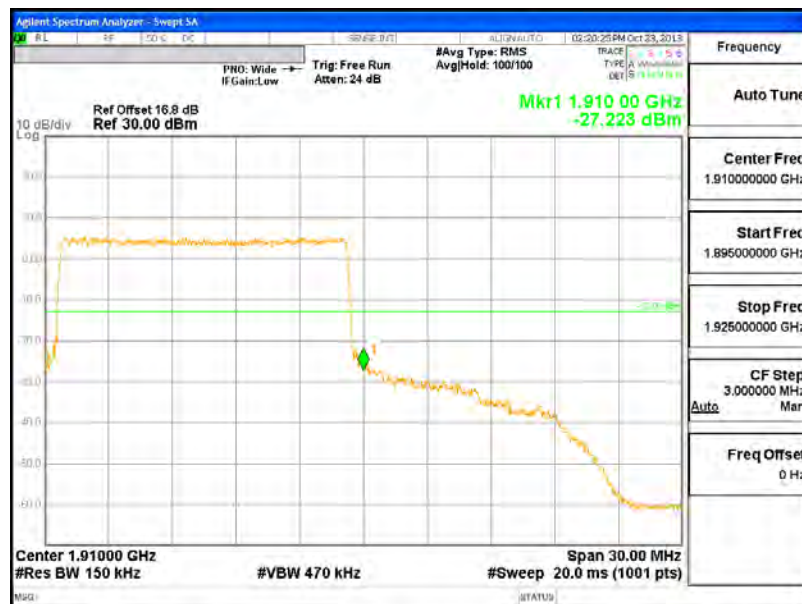
HIGH CH, RB36-18



LOW CH, RB75-0

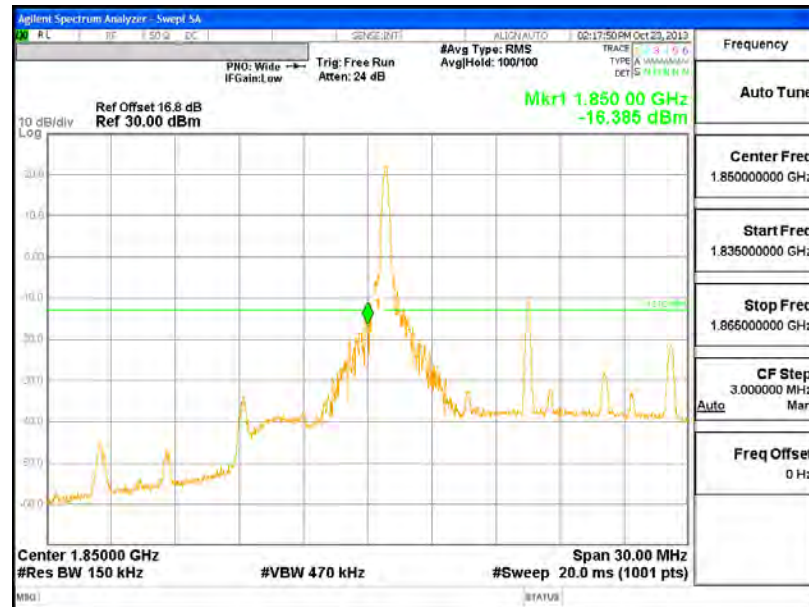


HIGH CH, RB75-0

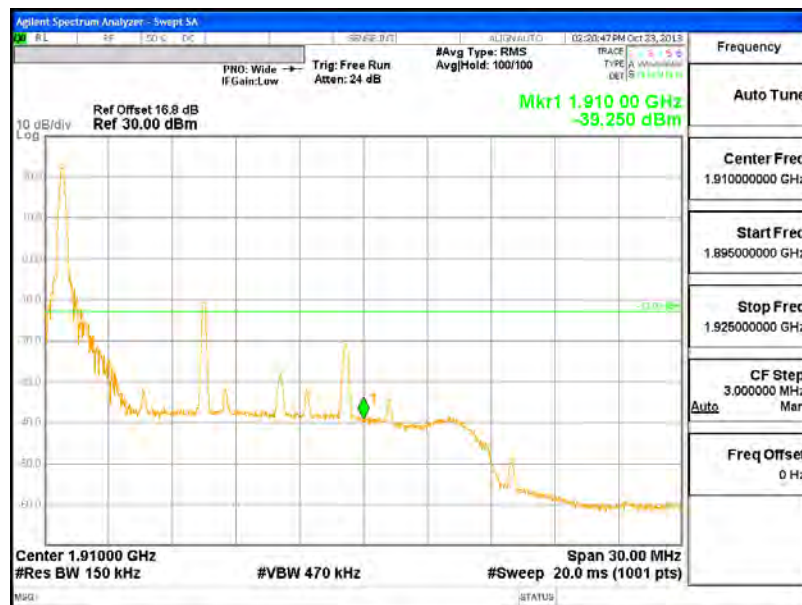


Band 2 (15MHz BANDWIDTH)**LTE 16QAM**

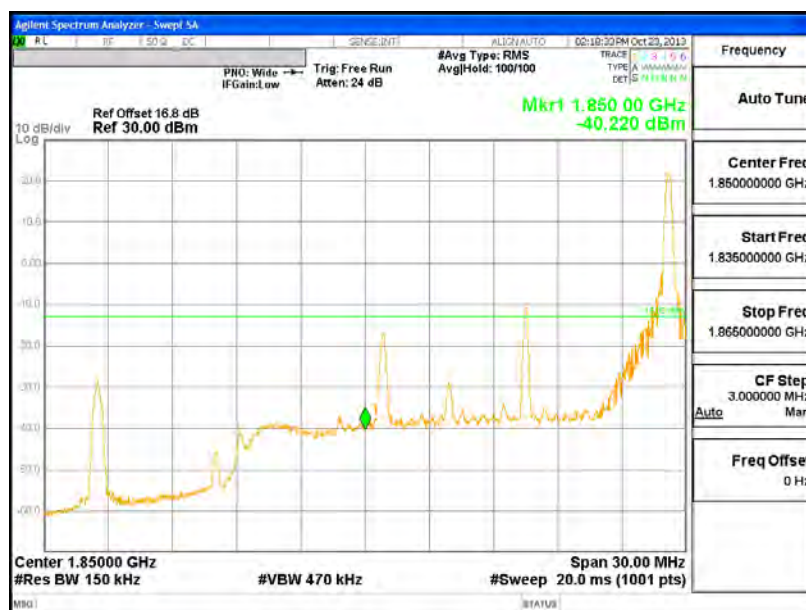
LOW CH, RB1_0



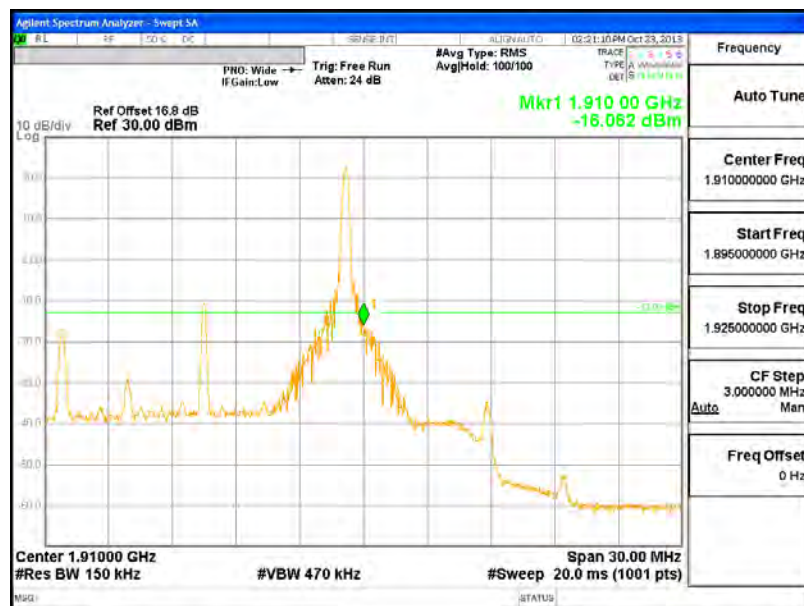
HIGH CH, RB1-0



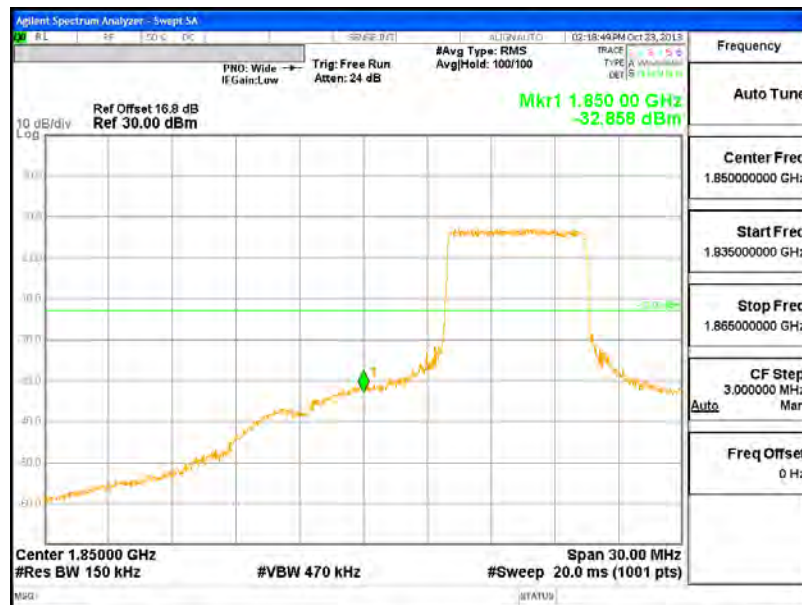
LOW CH, RB1-74



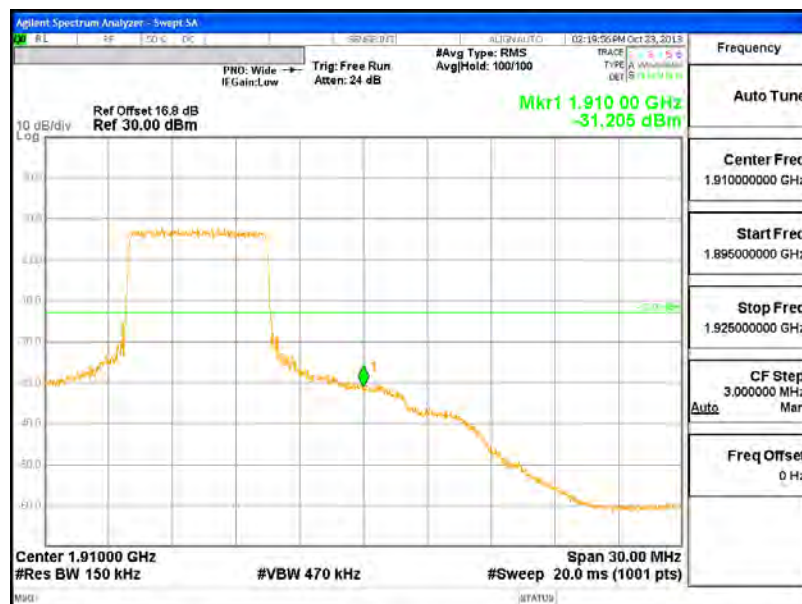
HIGH CH, RB1-74



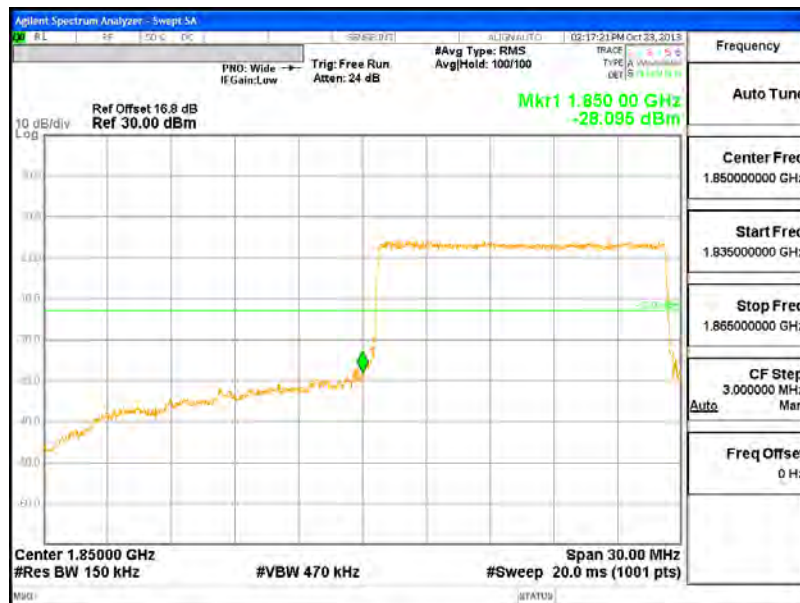
LOW CH, RB36-18



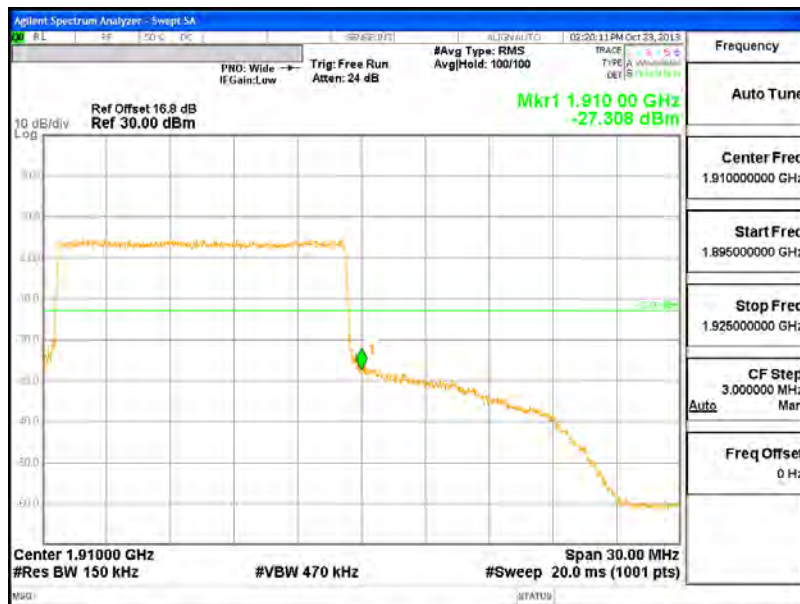
HIGH CH, RB36-18

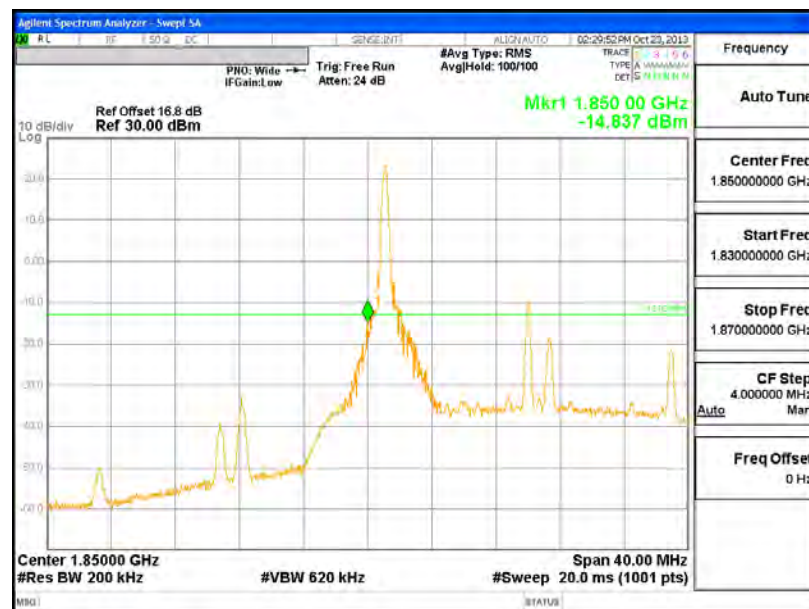


LOW CH, RB75-0



HIGH CH, RB75-0

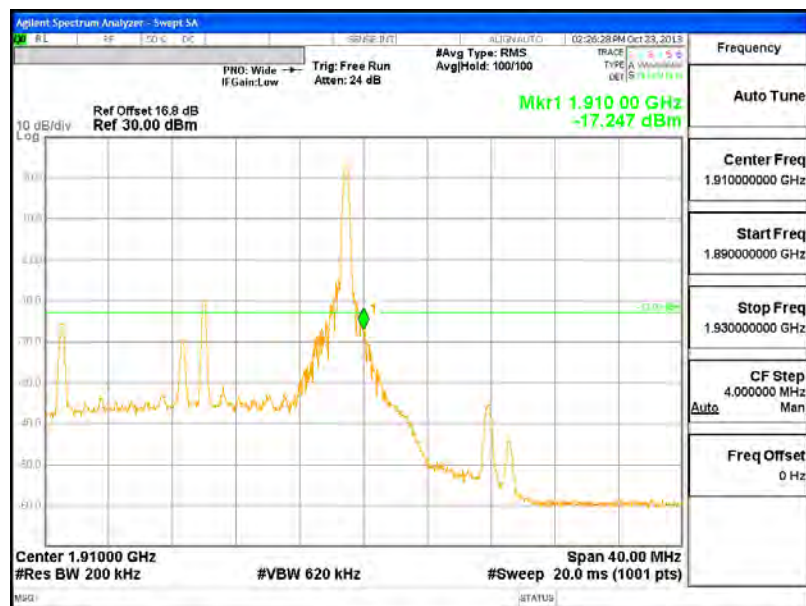


Band 2 (20MHz BANDWIDTH)**LTE QPSK****LOW CH, RB1_0****HIGH CH, RB1-0**

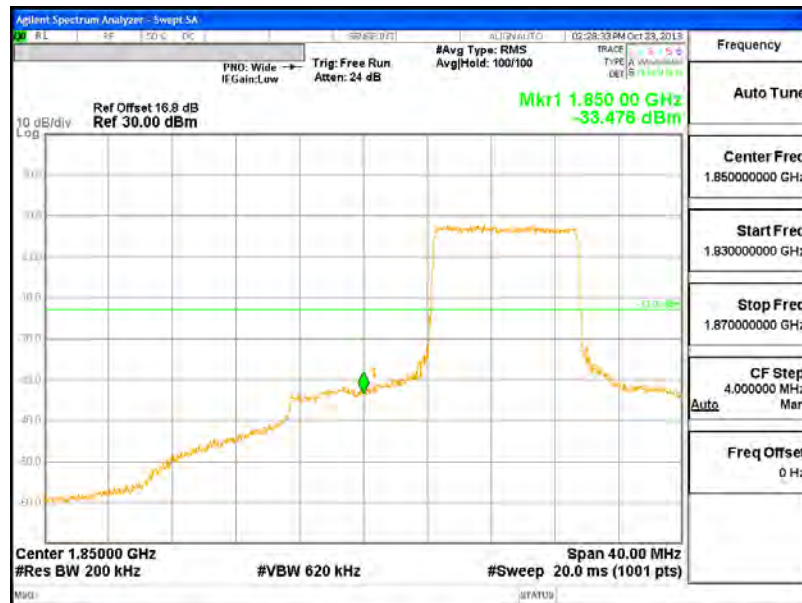
LOW CH, RB1-99



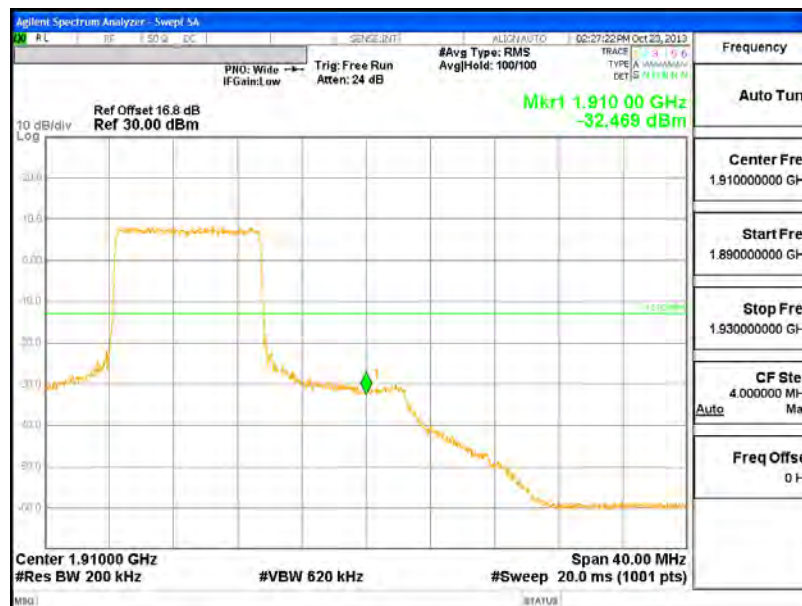
HIGH CH, RB1-99



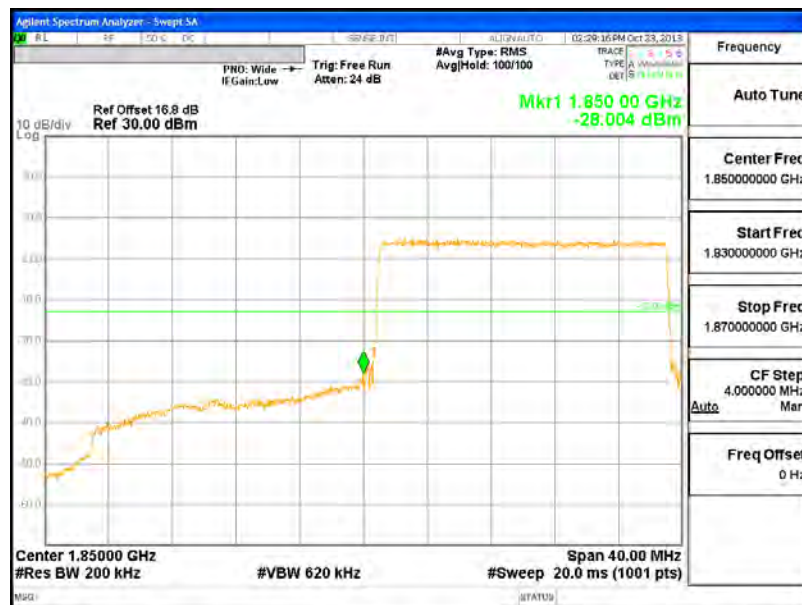
LOW CH, RB50-19



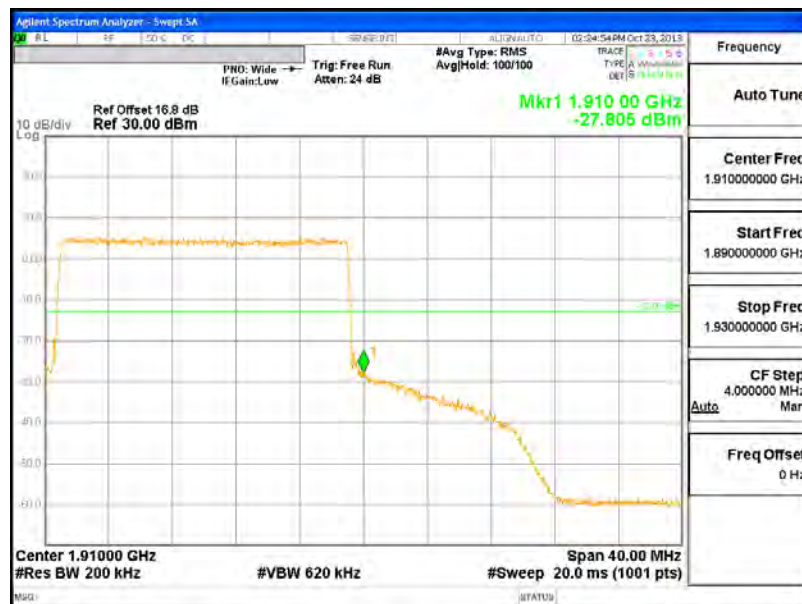
HIGH CH, RB50-19

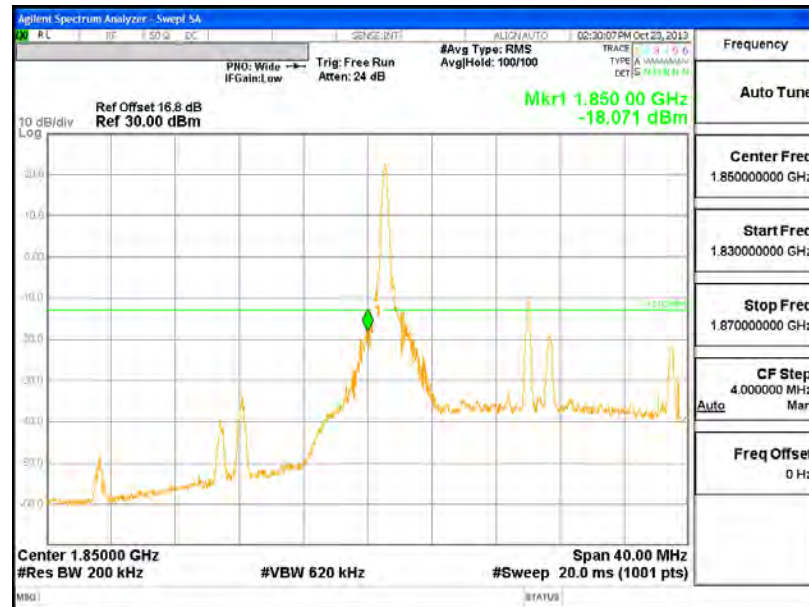


LOW CH, RB100-0



HIGH CH, RB100-0

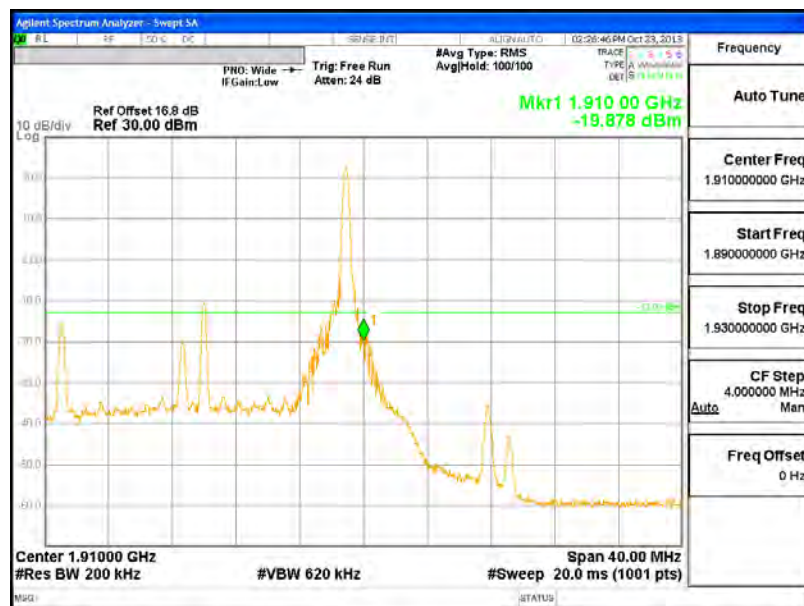


Band 2 (20MHz BANDWIDTH)**LTE 16QAM****LOW CH, RB1_0****HIGH CH, RB1-0**

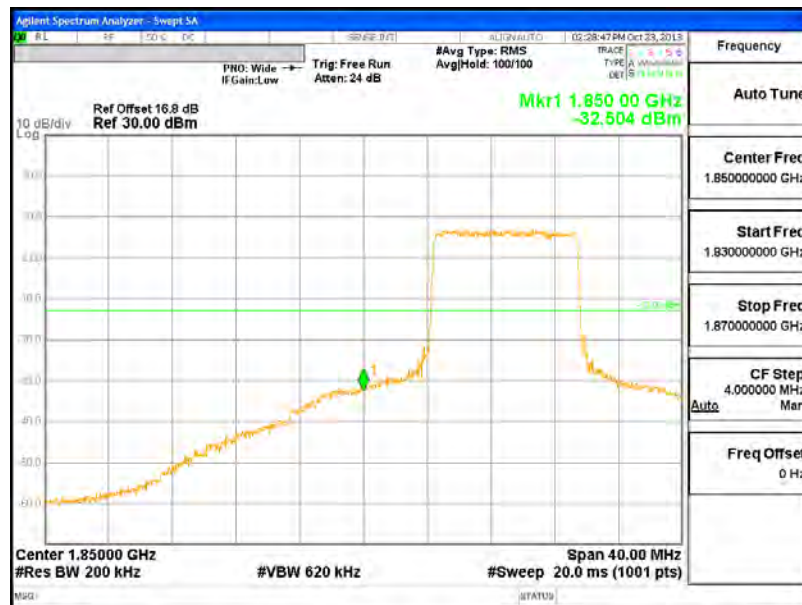
LOW CH, RB1-99



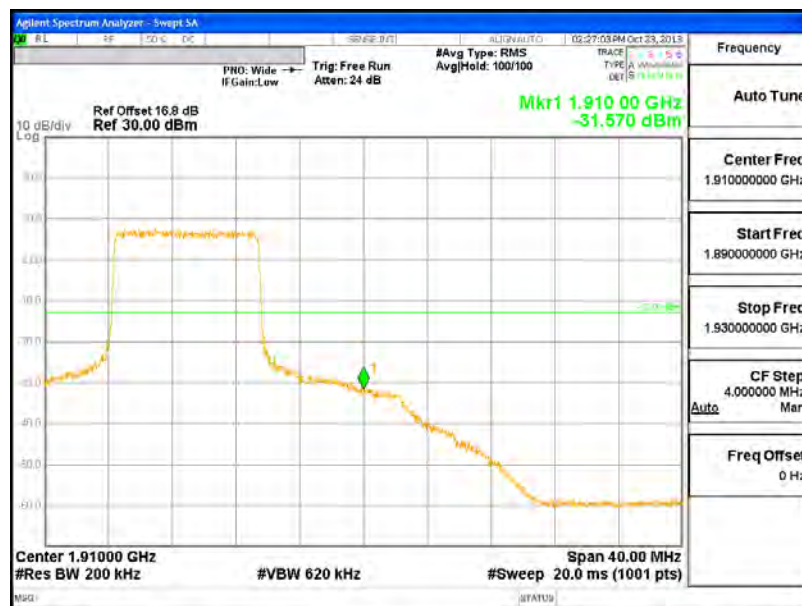
HIGH CH, RB1-99



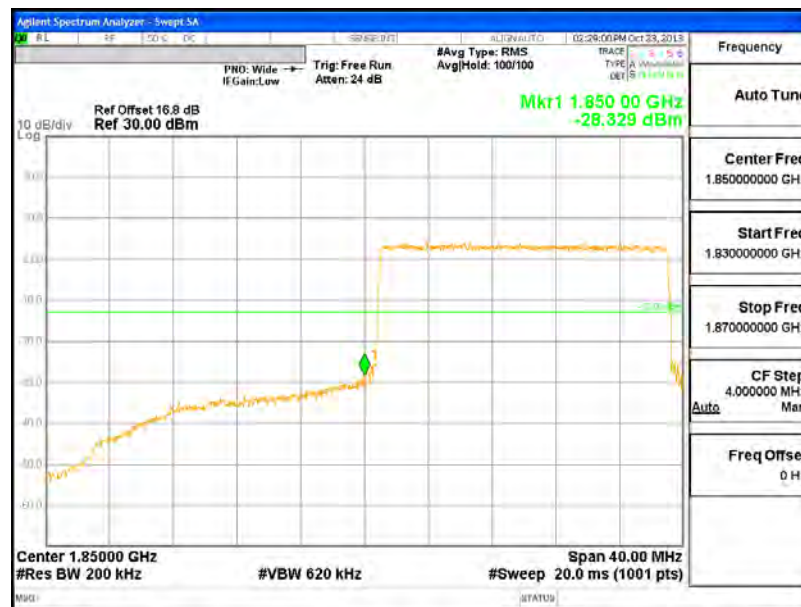
LOW CH, RB50-19



HIGH CH, RB50-19



LOW CH, RB100-0



HIGH CH, RB100-0

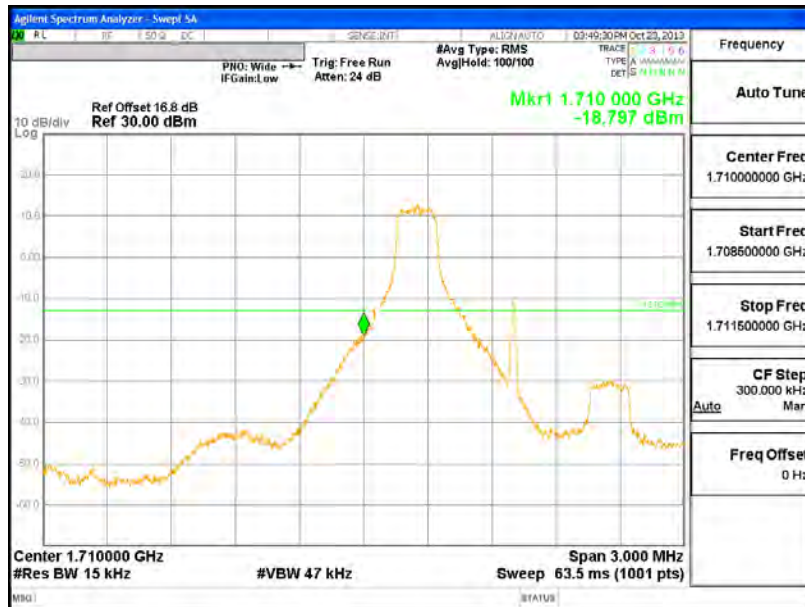


8.2.2. LTE BAND 4

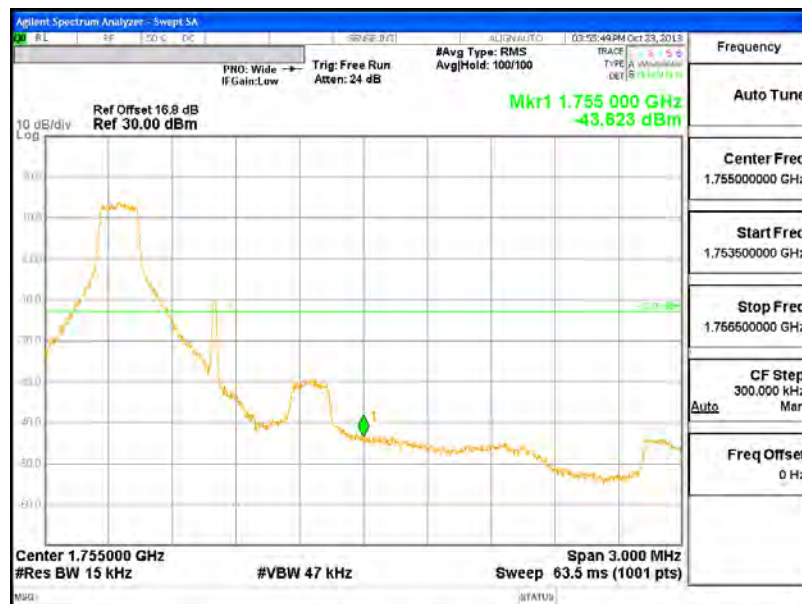
Band 4 (1.4 MHz BANDWIDTH)

LTE QPSK

LOW CH, RB1_0



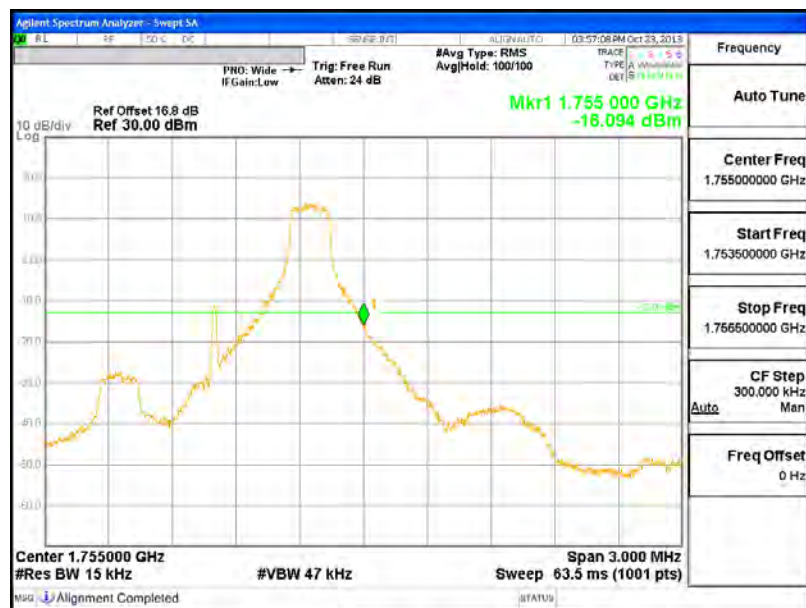
HIGH CH, RB1-0



LOW CH, RB1-5



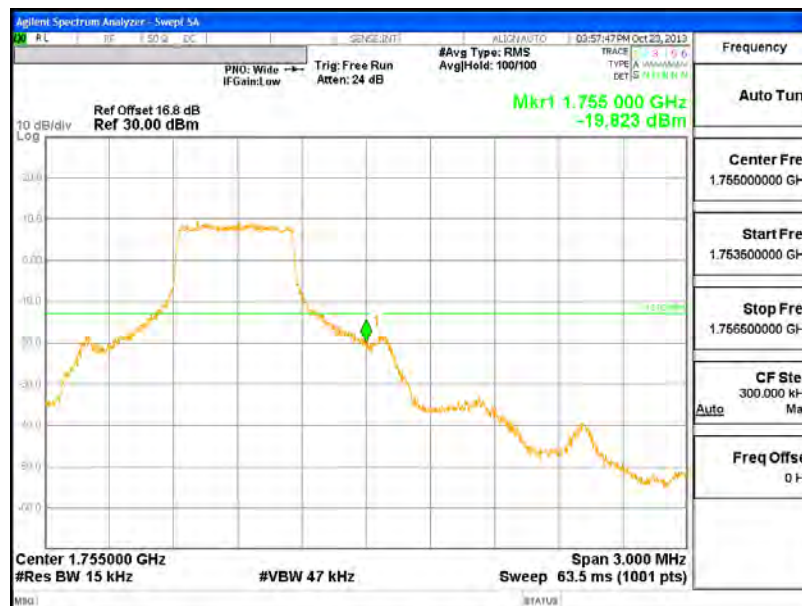
HIGH CH, RB1-5



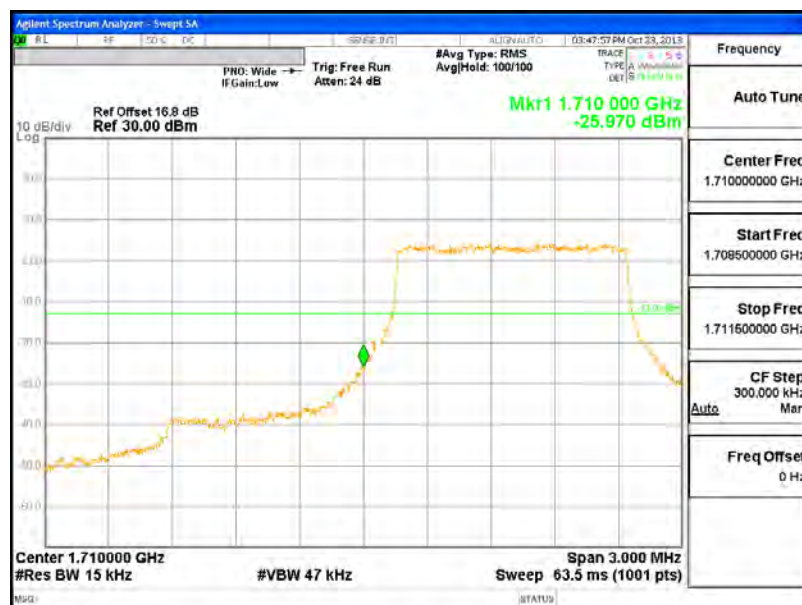
LOW CH, RB3-2



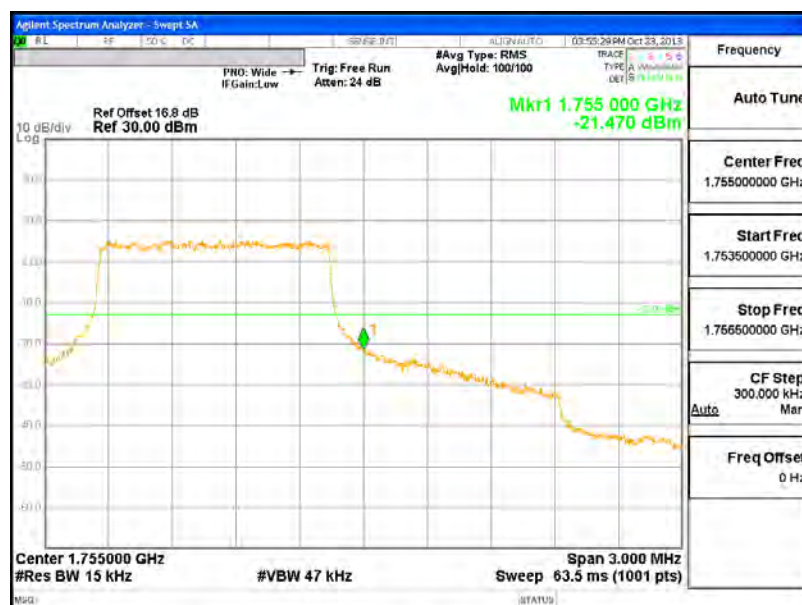
HIGH CH, RB3-2



LOW CH, RB6-0

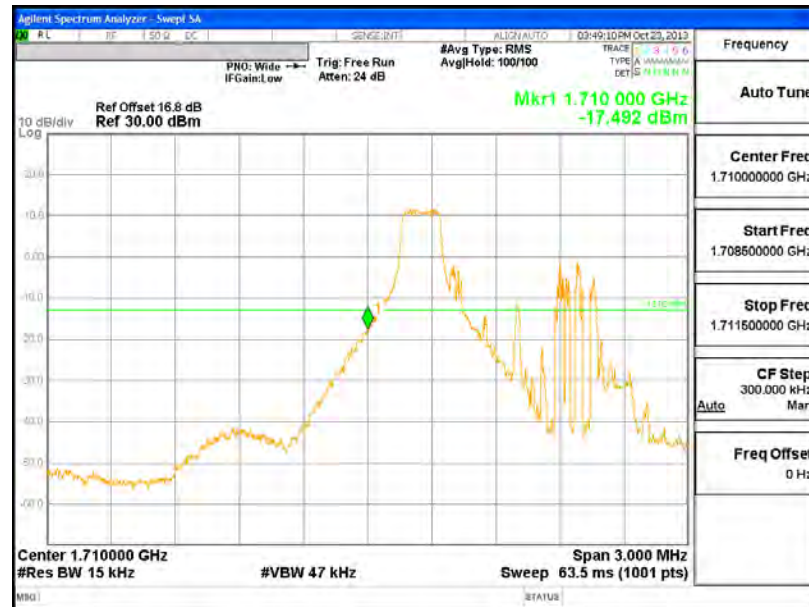


HIGH CH, RB6-0



Band 4 (1.4 MHz BANDWIDTH)**LTE 16QAM**

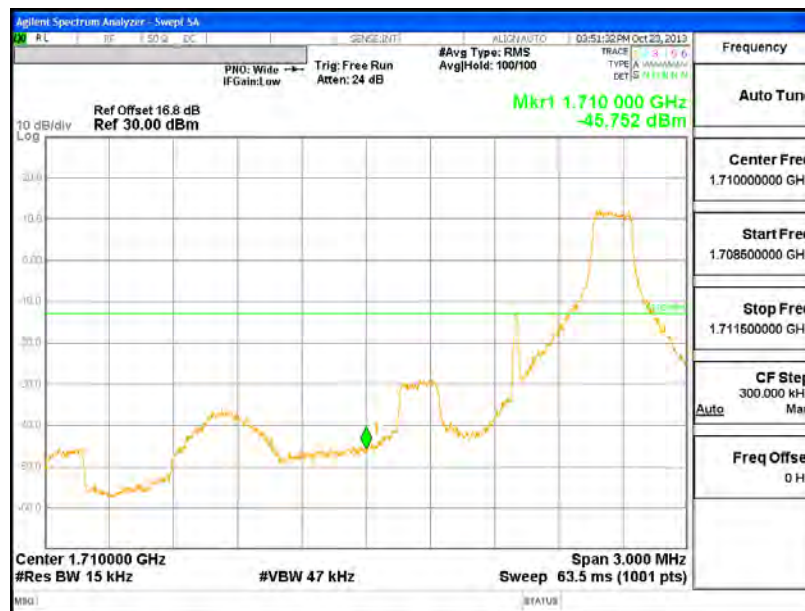
LOW CH, RB1_0



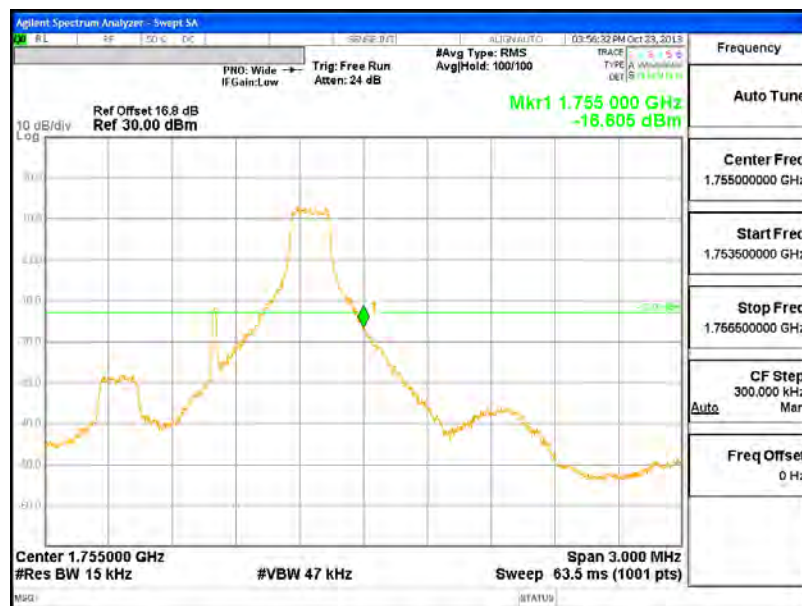
HIGH CH, RB1-0



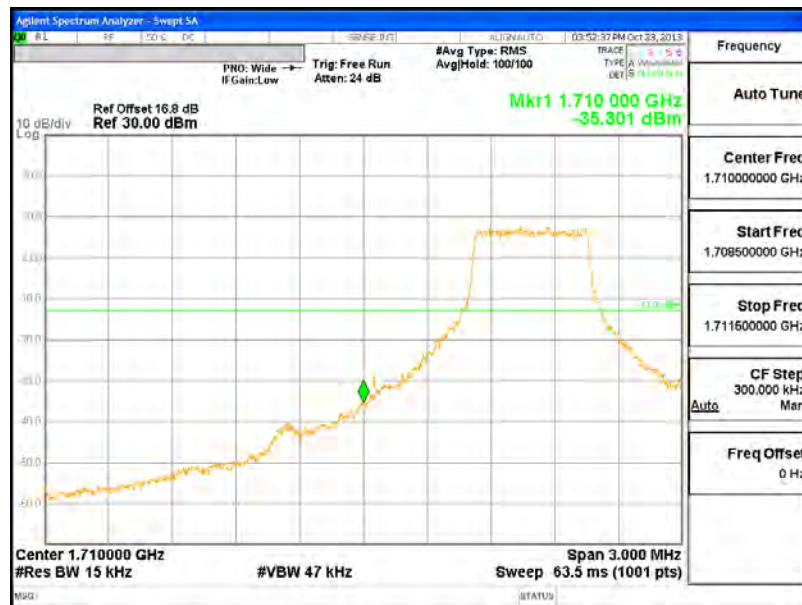
LOW CH, RB1-5



HIGH CH, RB1-5



LOW CH, RB3-2



HIGH CH, RB3-2

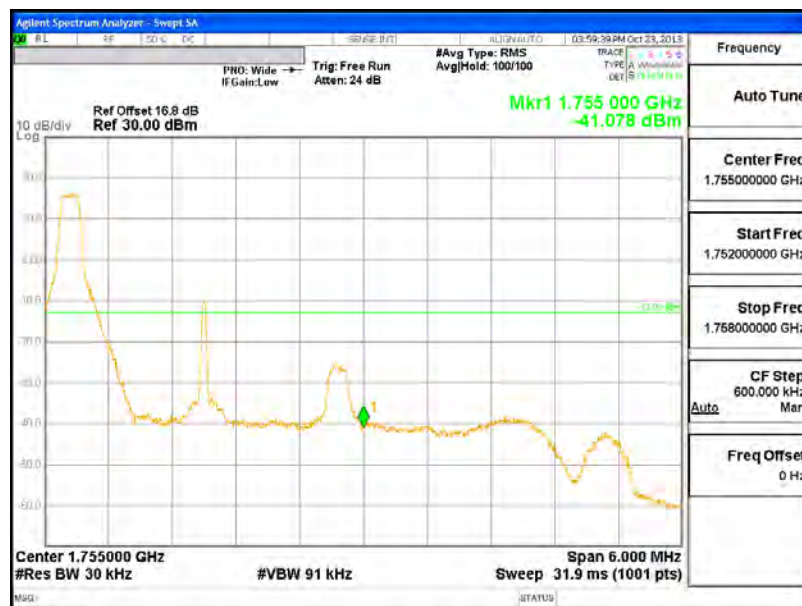


LOW CH, RB6-0

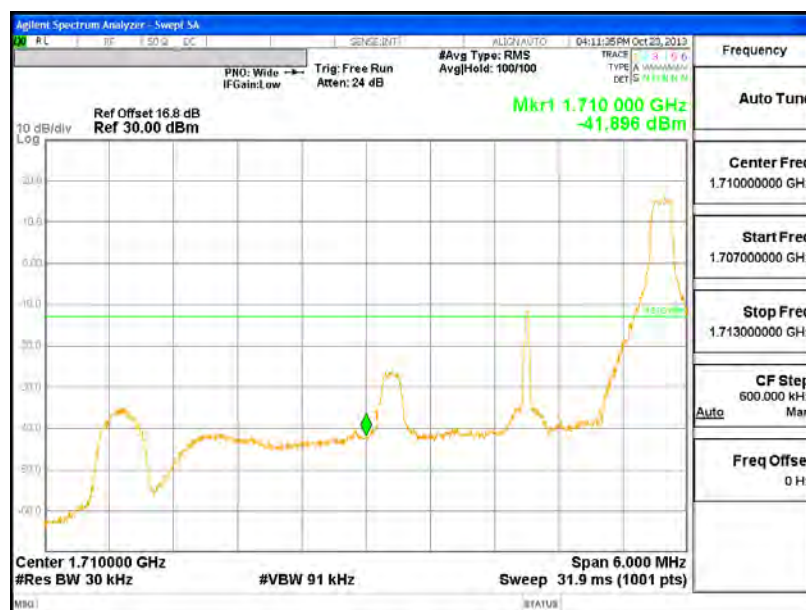


HIGH CH, RB6-0

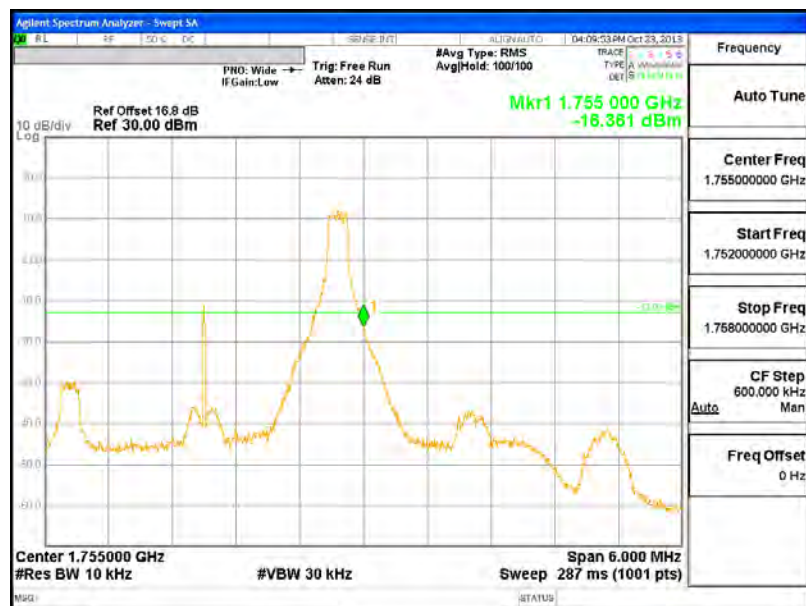


Band 4 (3 MHz BANDWIDTH)**LTE QPSK****LOW CH, RB1_0****HIGH CH, RB1-0**

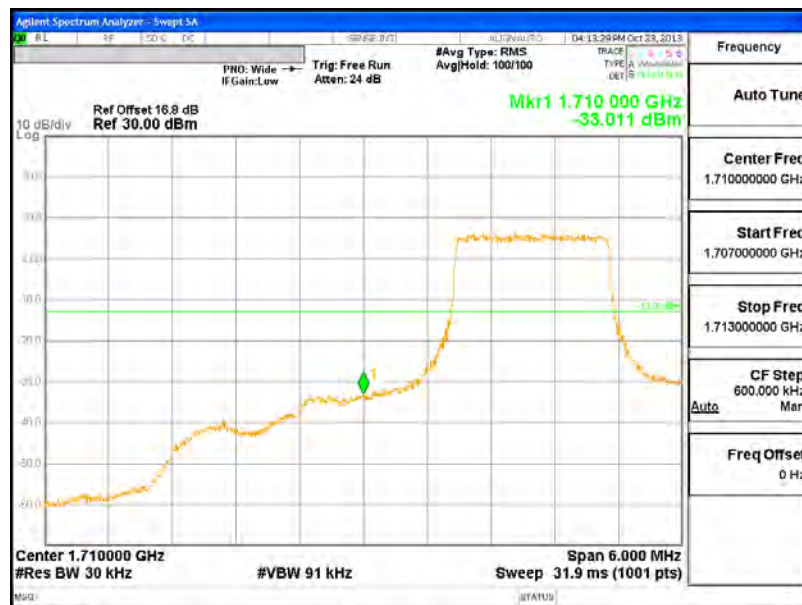
LOW CH, RB1-14



HIGH CH, RB1-14



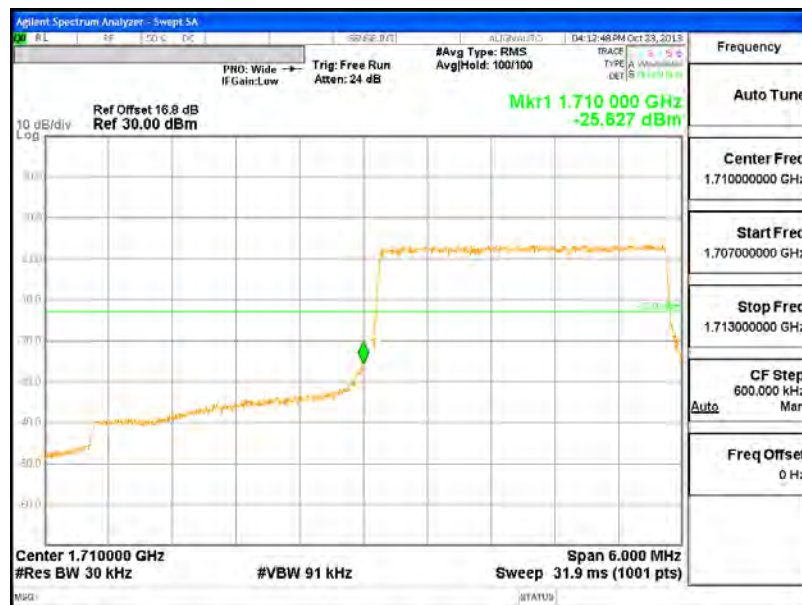
LOW CH, RB8-4



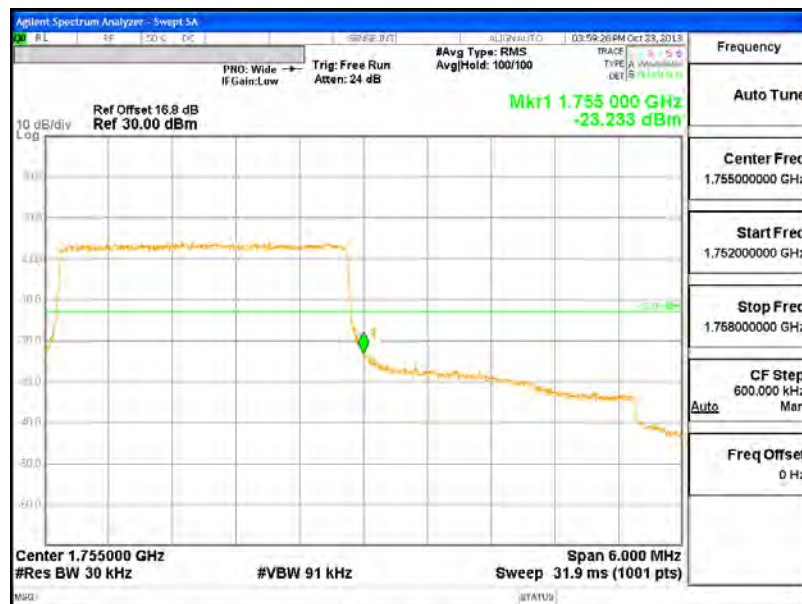
HIGH CH, RB8-4



LOW CH, RB15-0

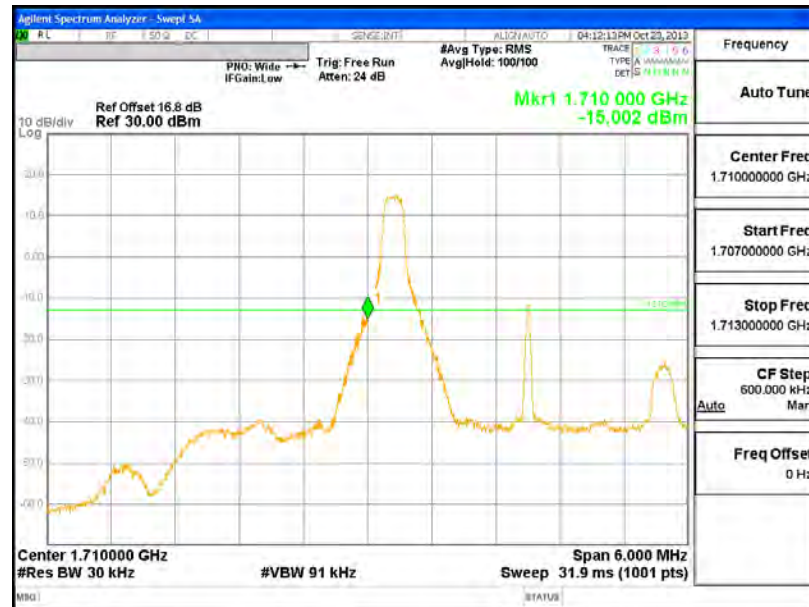


HIGH CH, RB15-0

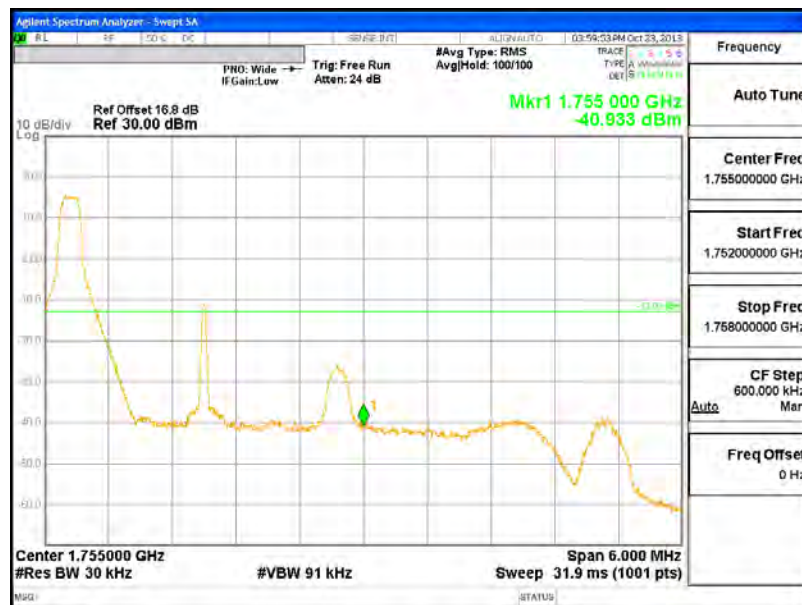


Band 4 (3MHz BANDWIDTH)**LTE 16QAM**

LOW CH, RB1_0



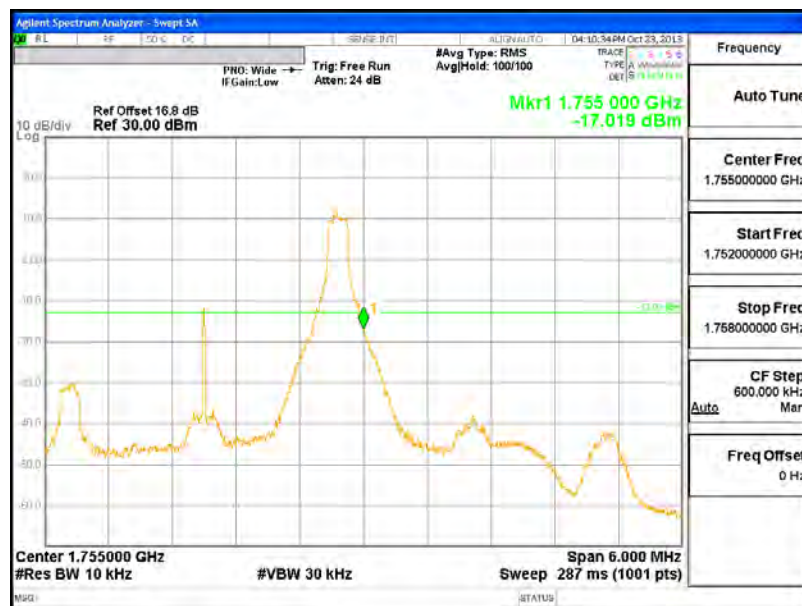
HIGH CH, RB1-0



LOW CH, RB1-14



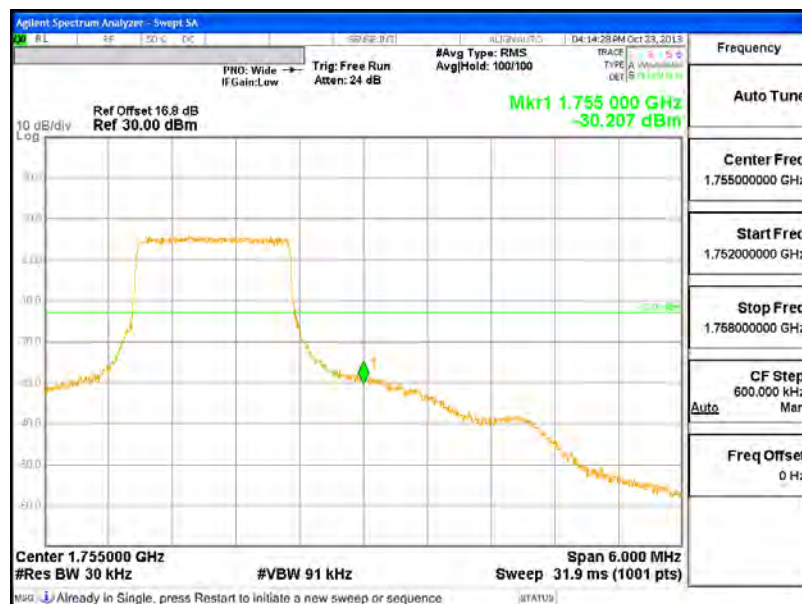
HIGH CH, RB1-14



LOW CH, RB8-4



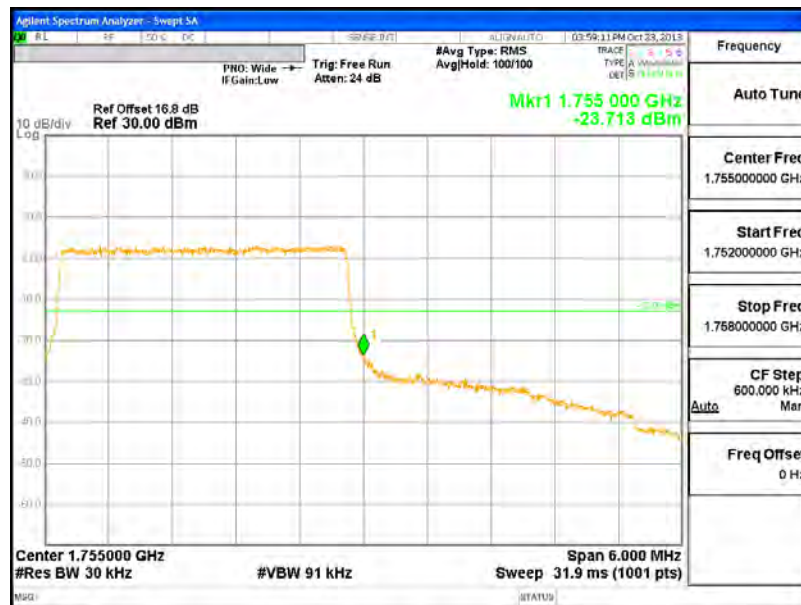
HIGH CH, RB8-4

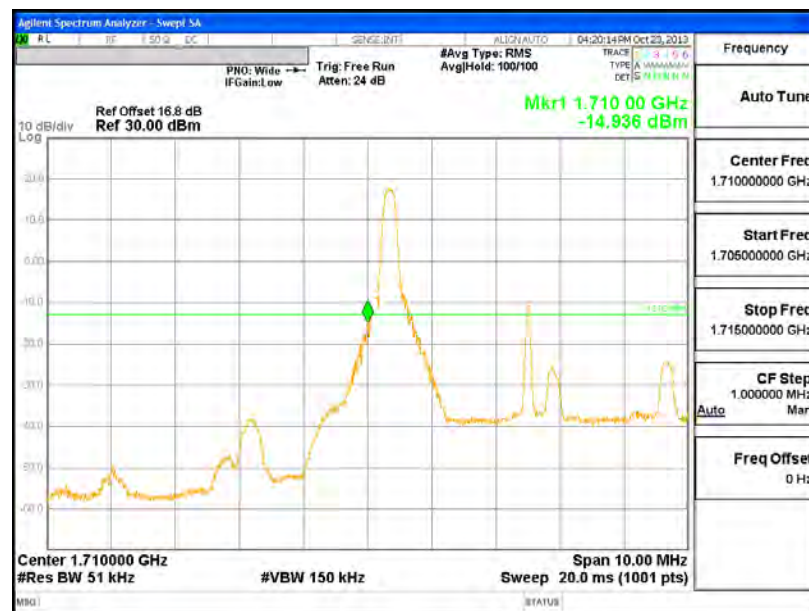
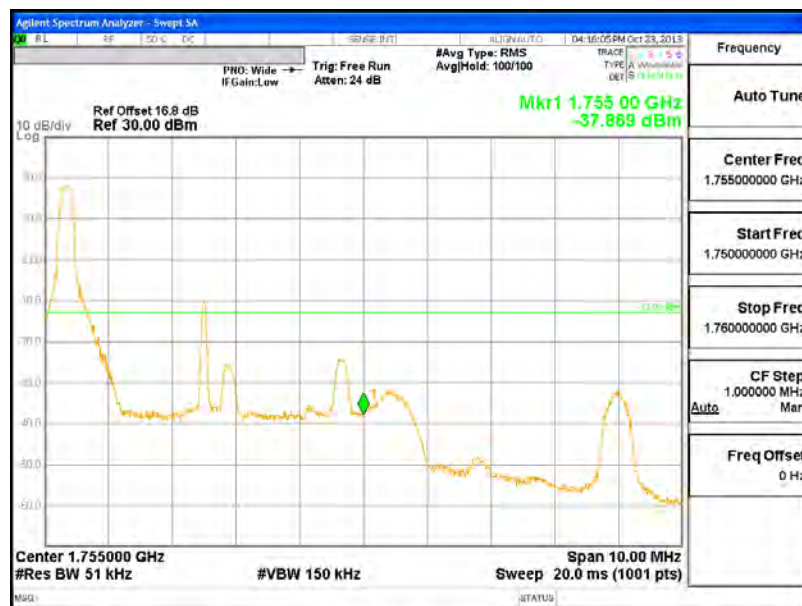


LOW CH, RB15-0

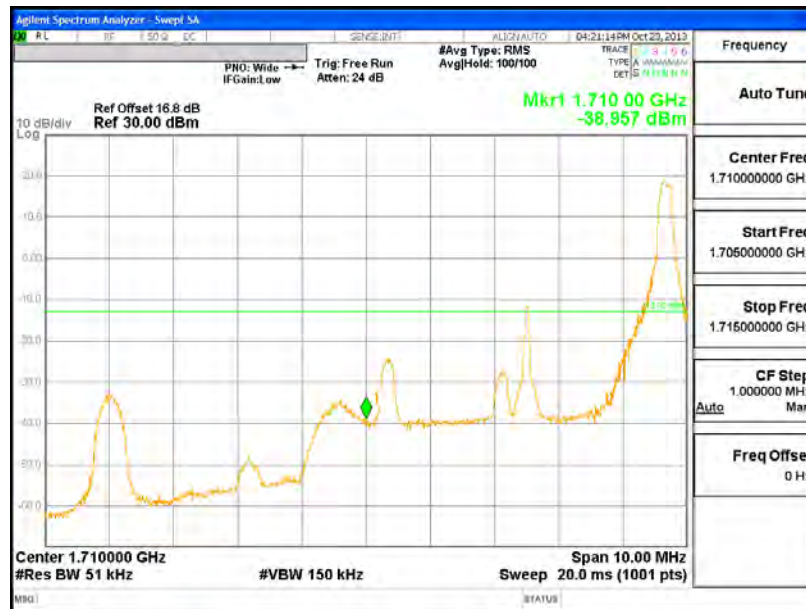


HIGH CH, RB15-0

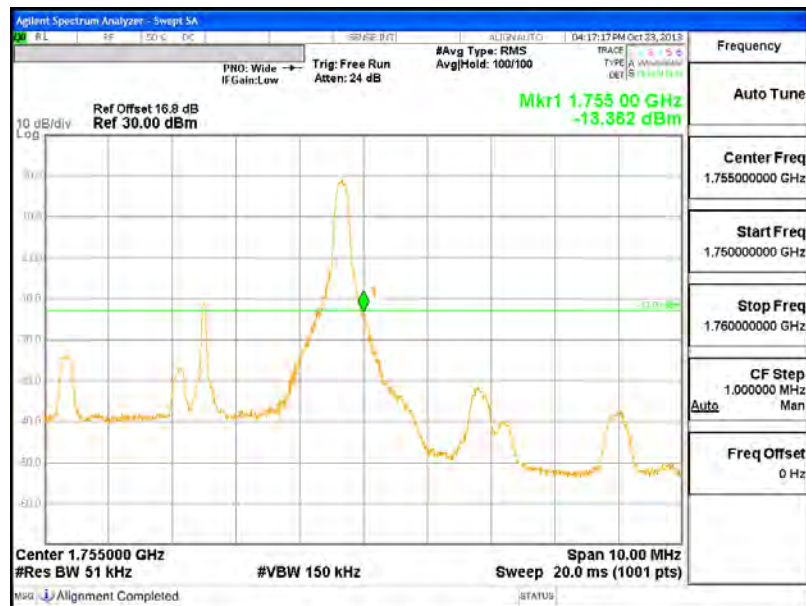


Band 4 (5MHz BANDWIDTH)**LTE QPSK****LOW CH, RB1_0****HIGH CH, RB1-0**

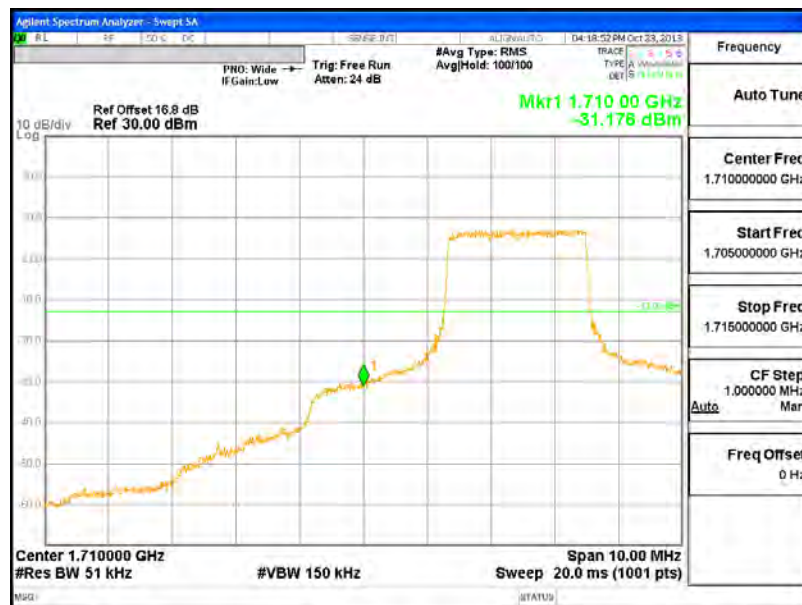
LOW CH, RB1-24



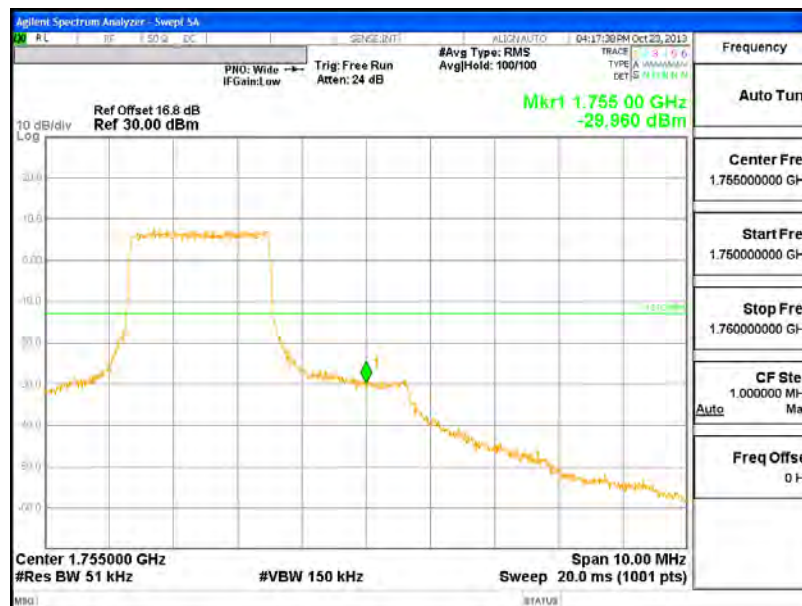
HIGH CH, RB1-24



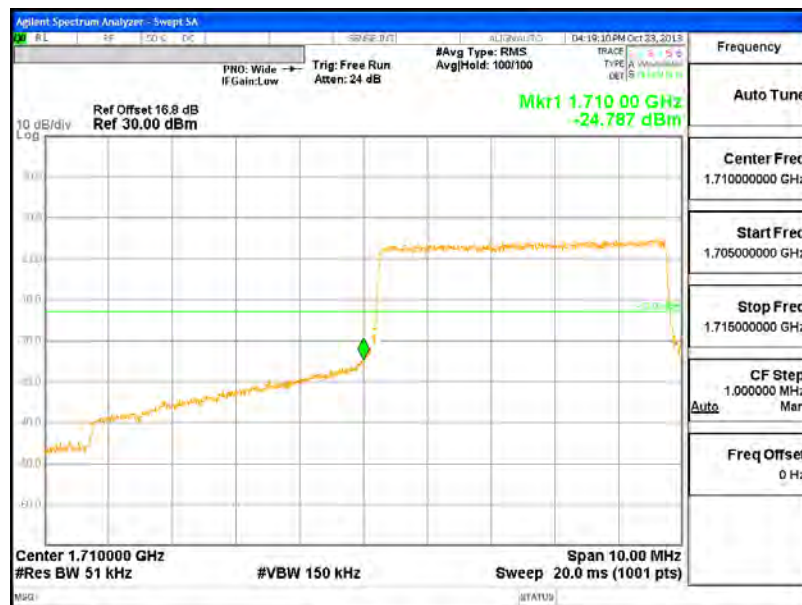
LOW CH, RB12-6



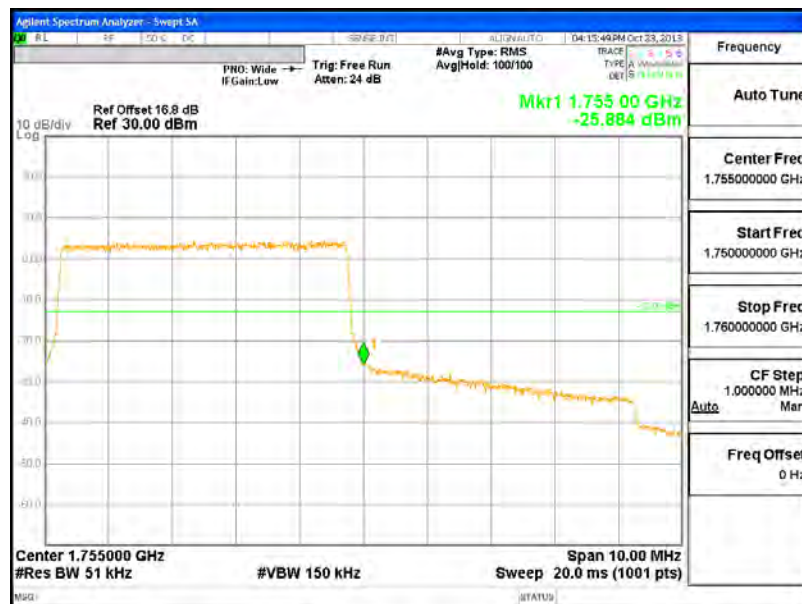
HIGH CH, RB12-6

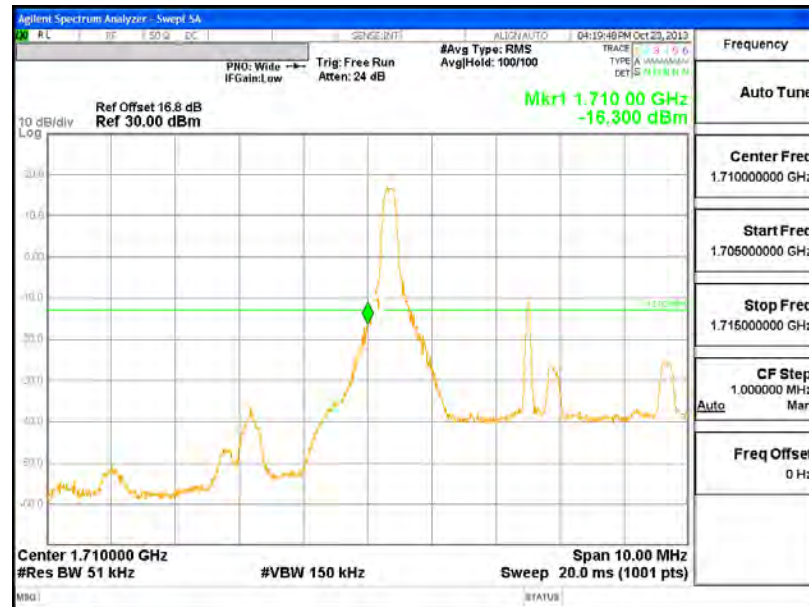
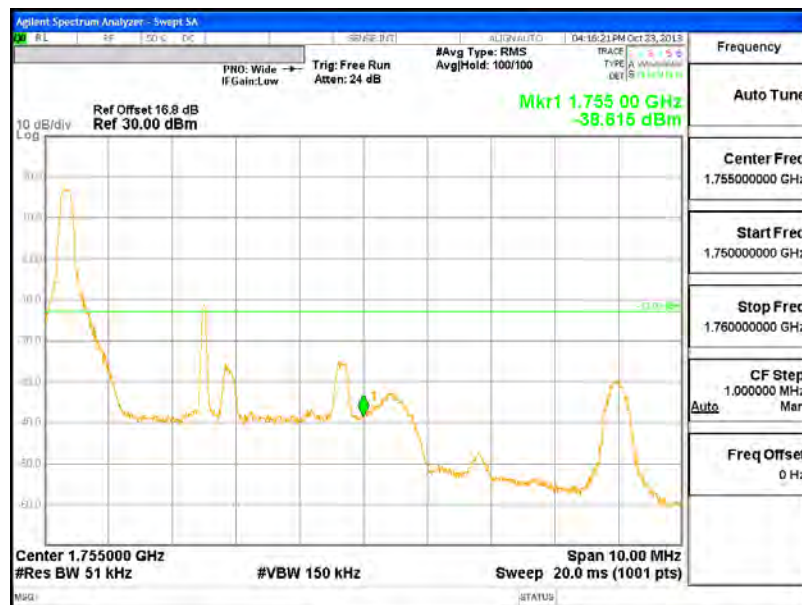


LOW CH, RB25-0



HIGH CH, RB25-0

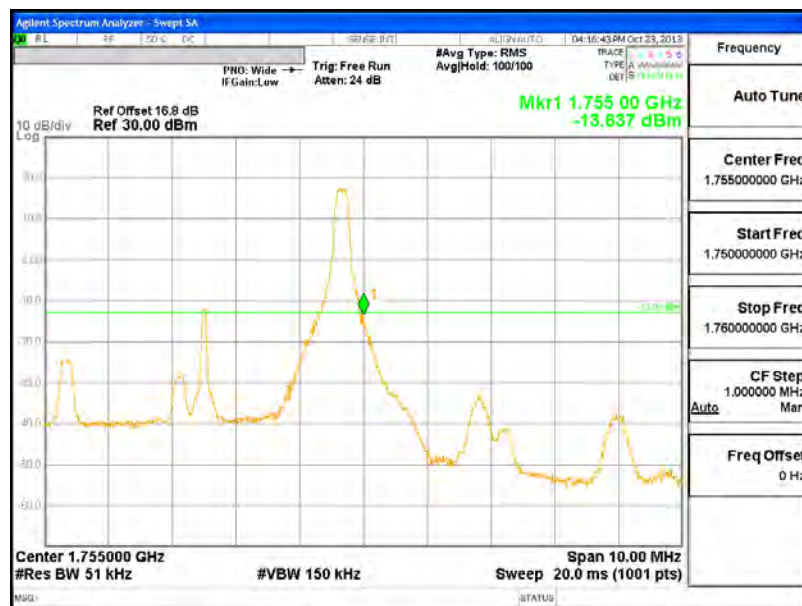


Band 4 (5MHz BANDWIDTH)**LTE 16QAM****LOW CH, RB1_0****HIGH CH, RB1-0**

LOW CH, RB1-24



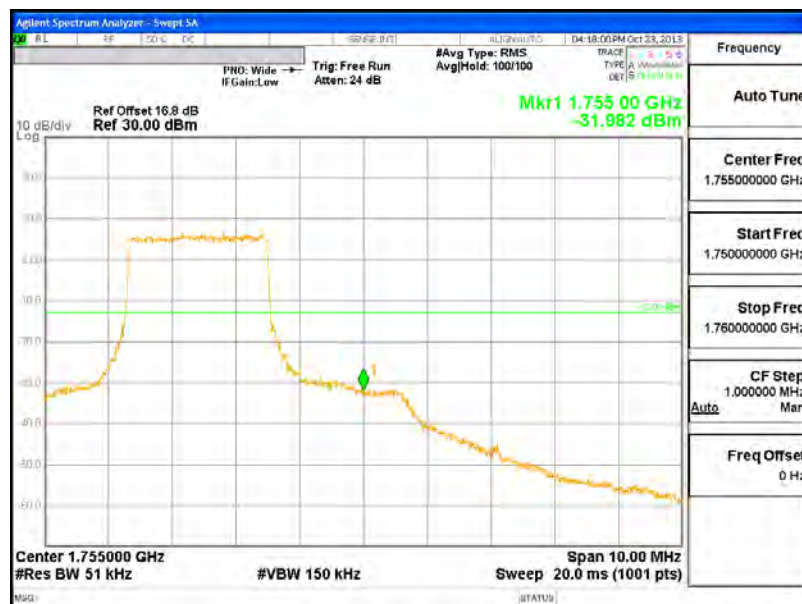
HIGH CH, RB1-24



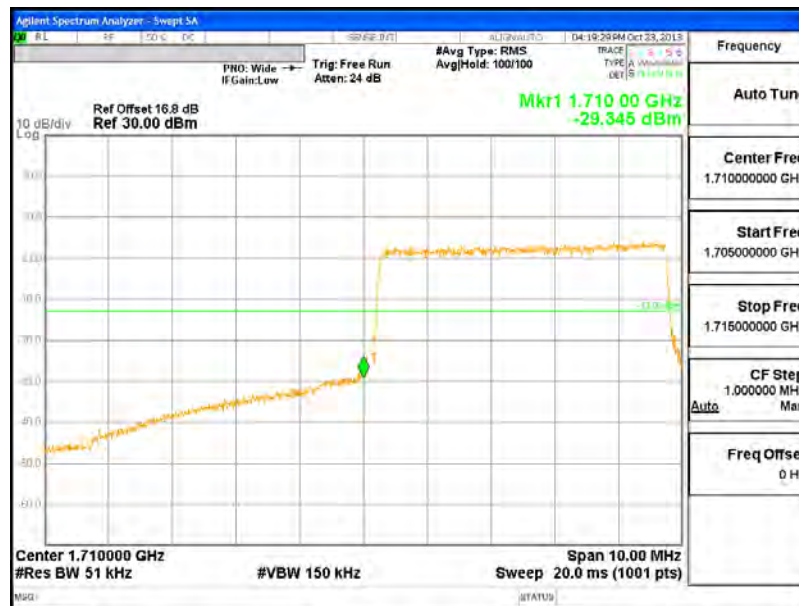
LOW CH, RB12-6



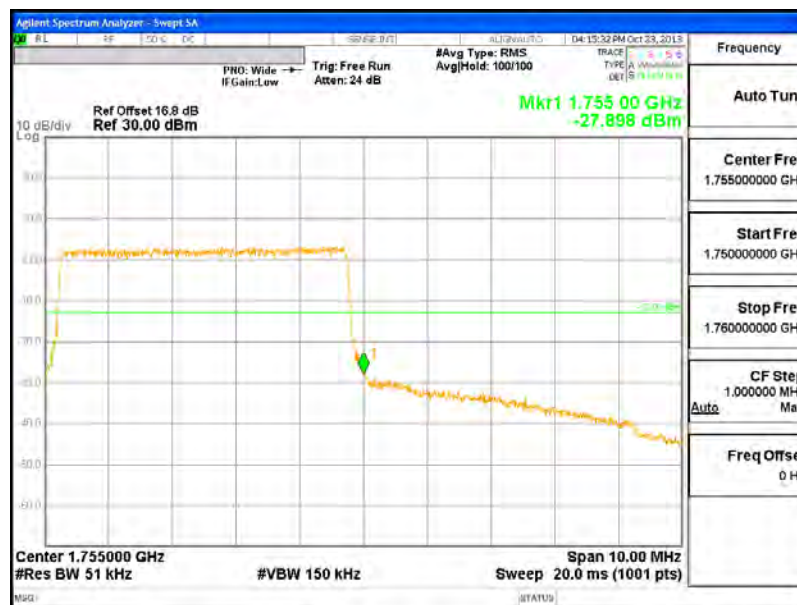
HIGH CH, RB12-6

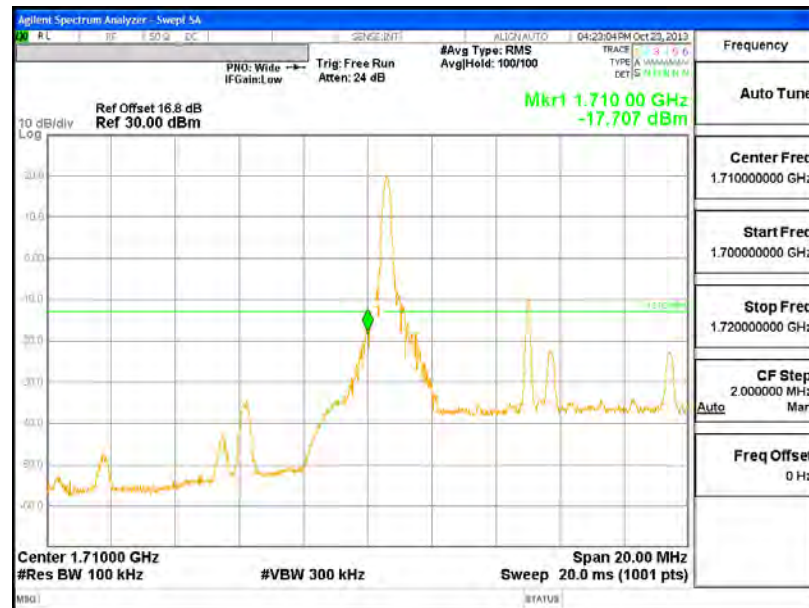
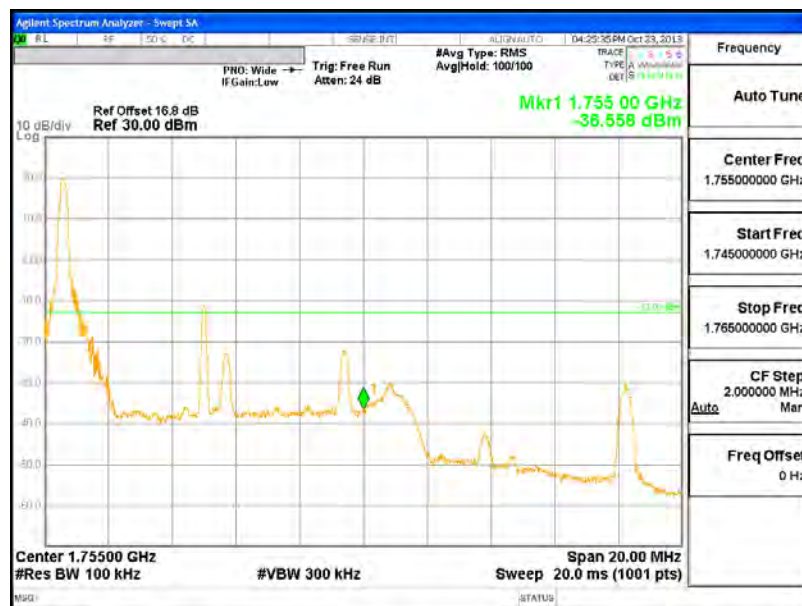


LOW CH, RB25-0

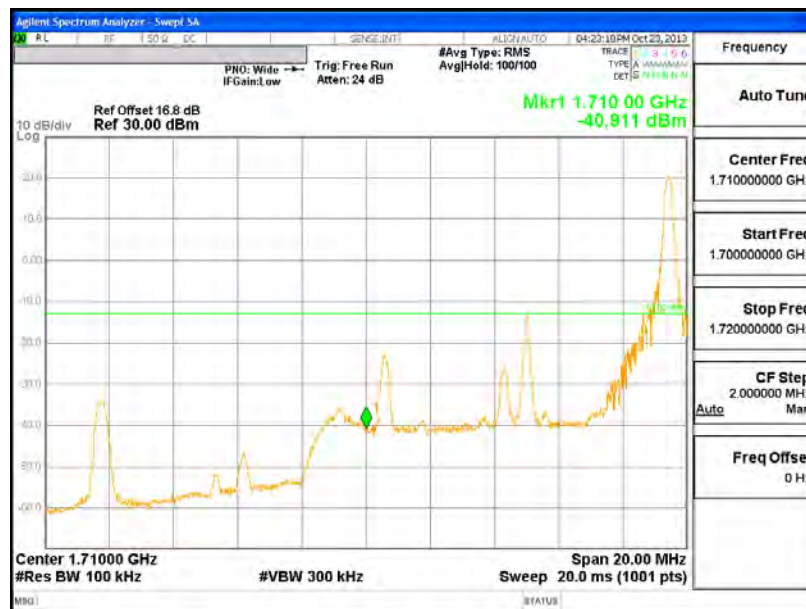


HIGH CH, RB25-0

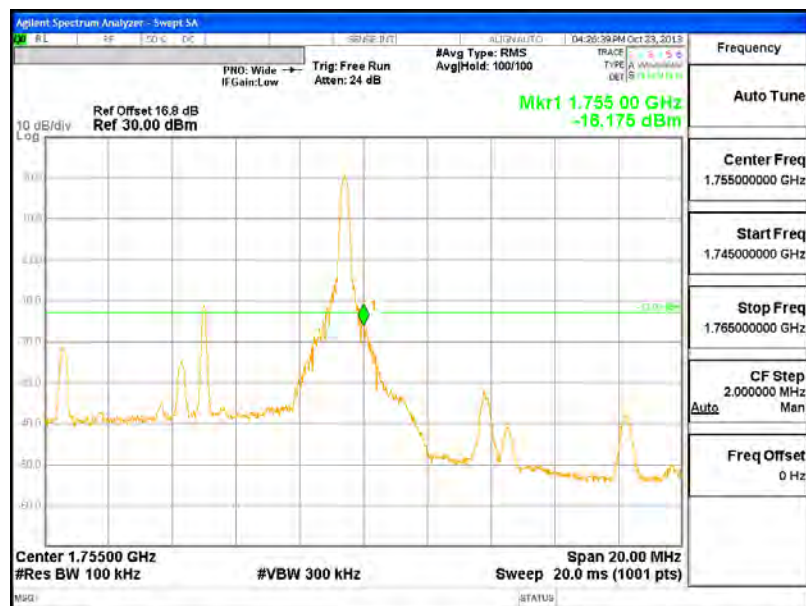


Band 4 (10MHz BANDWIDTH)**LTE QPSK****LOW CH, RB1_0****HIGH CH, RB1-0**

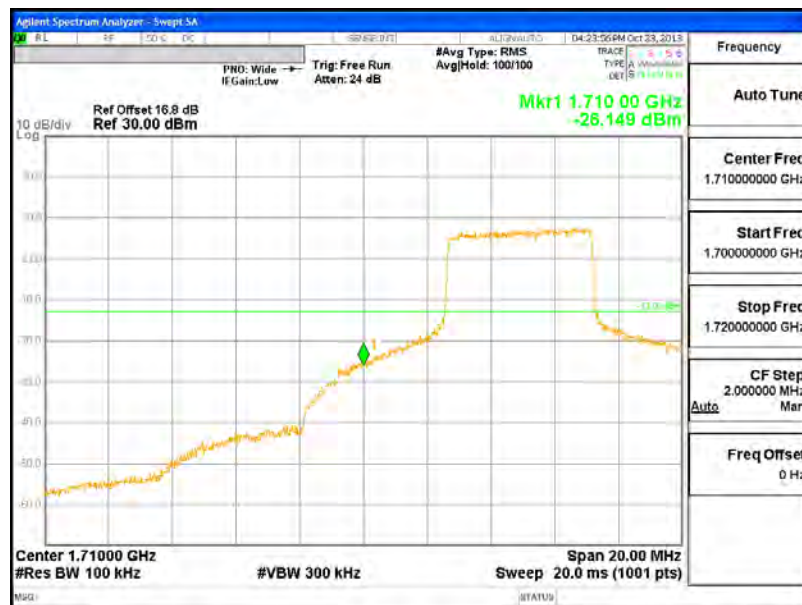
LOW CH, RB1-49



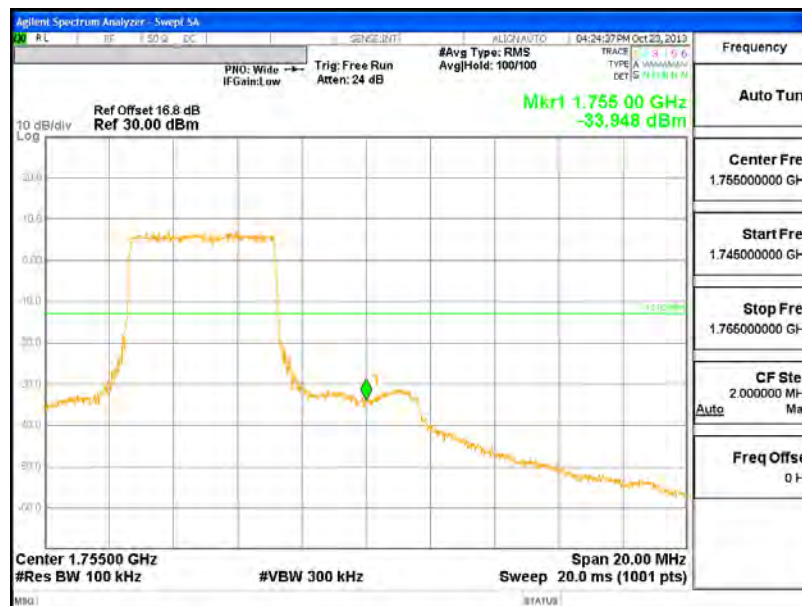
HIGH CH, RB1-49



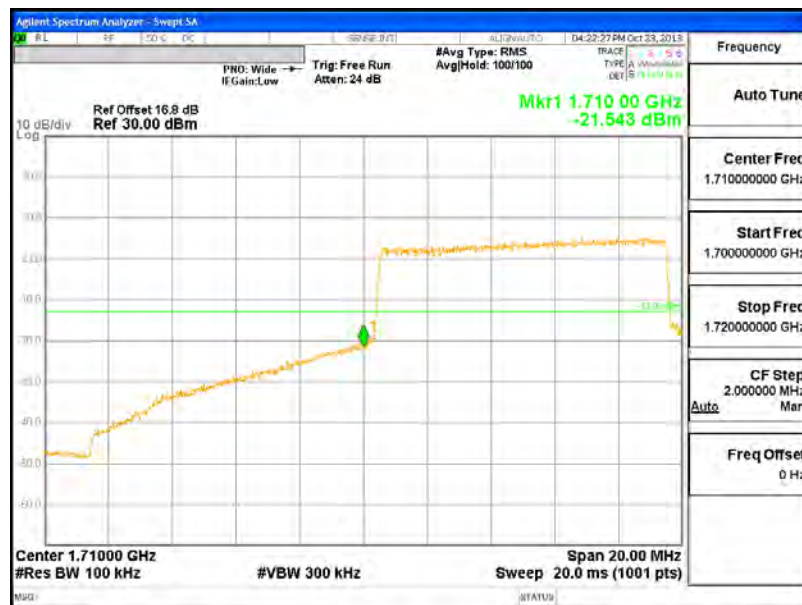
LOW CH, RB25-12



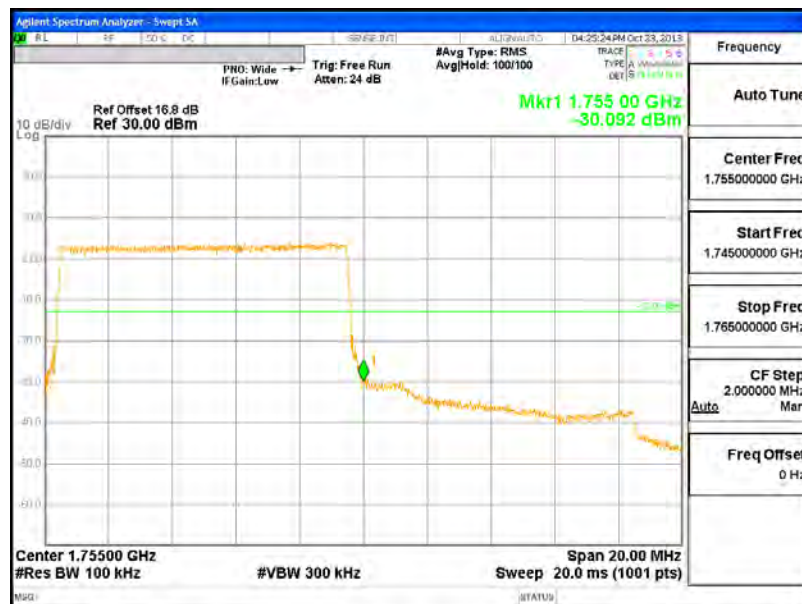
HIGH CH, RB25-12



LOW CH, RB50-0

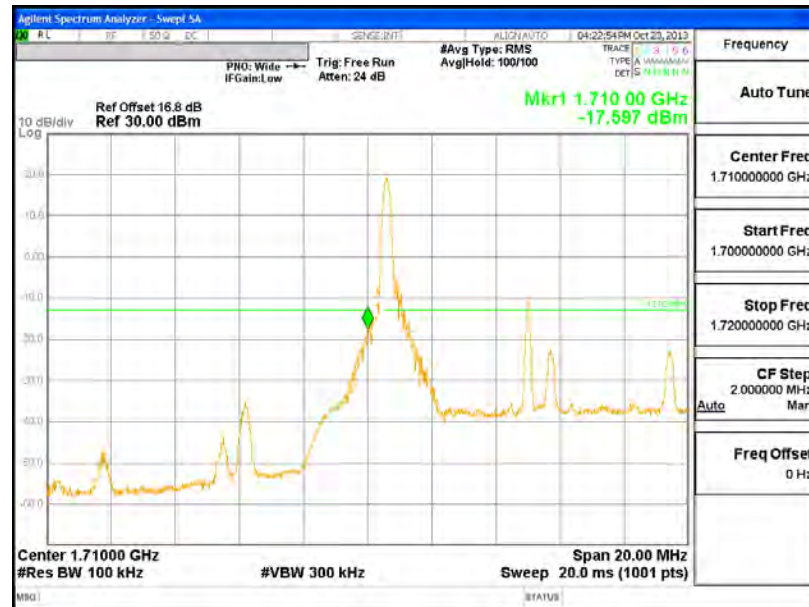


HIGH CH, RB50-0

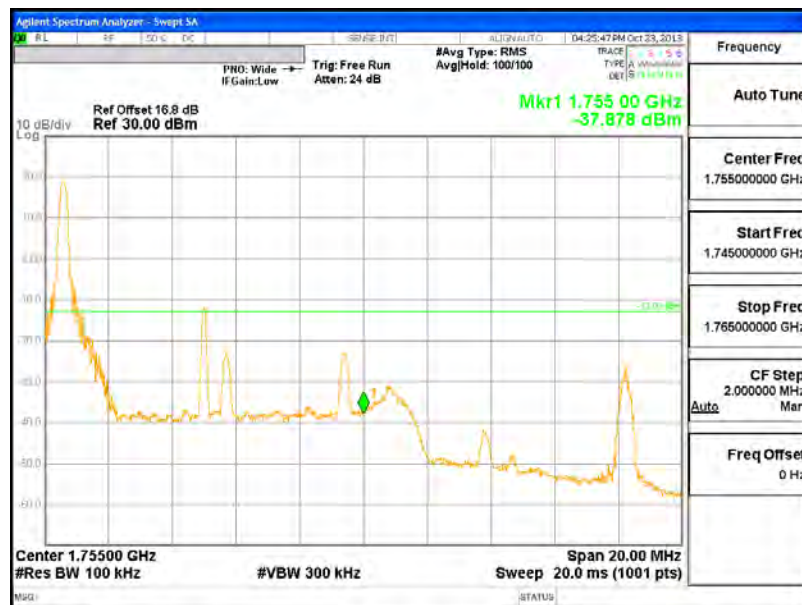


Band 4 (10MHz BANDWIDTH)**LTE 16QAM**

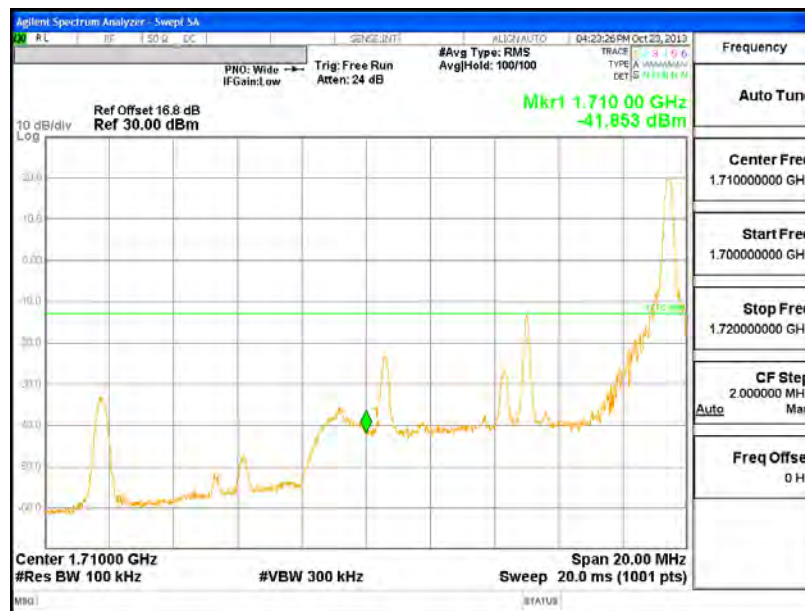
LOW CH, RB1_0



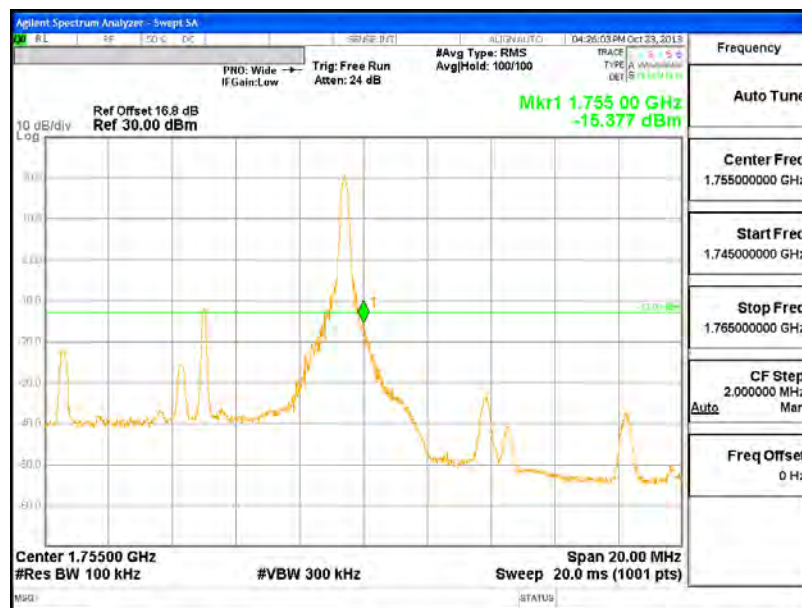
HIGH CH, RB1-0



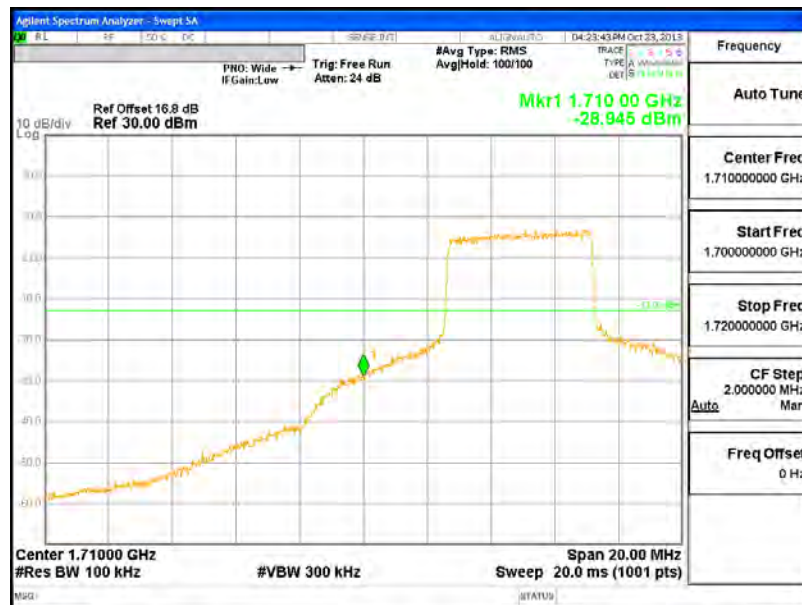
LOW CH, RB1-49



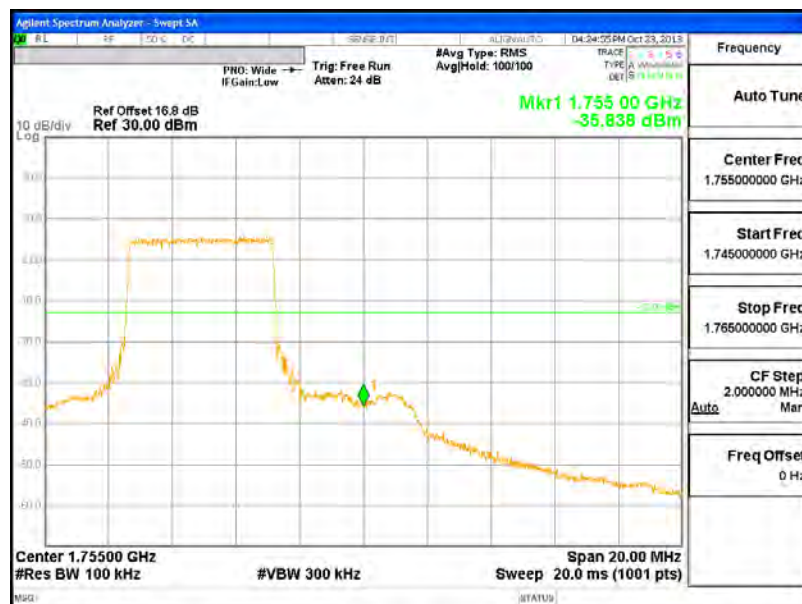
HIGH CH, RB1-49



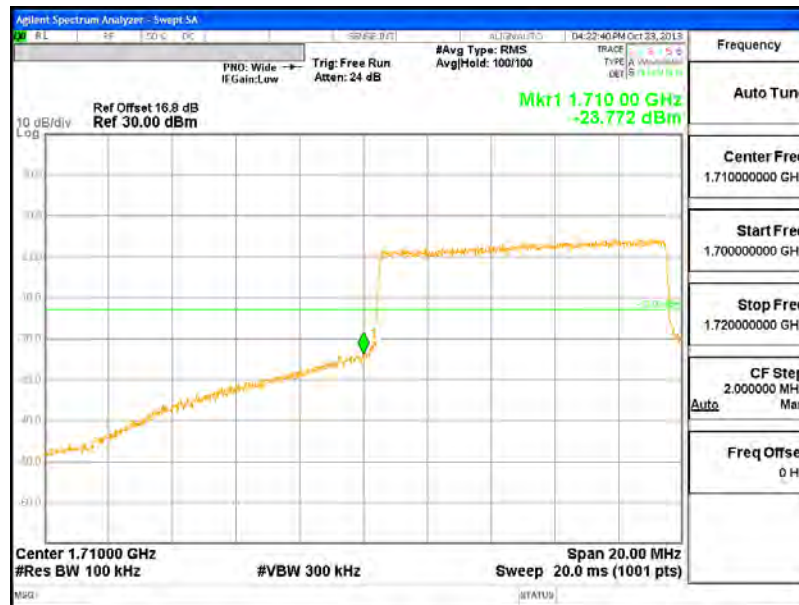
LOW CH, RB25-12



HIGH CH, RB25-12

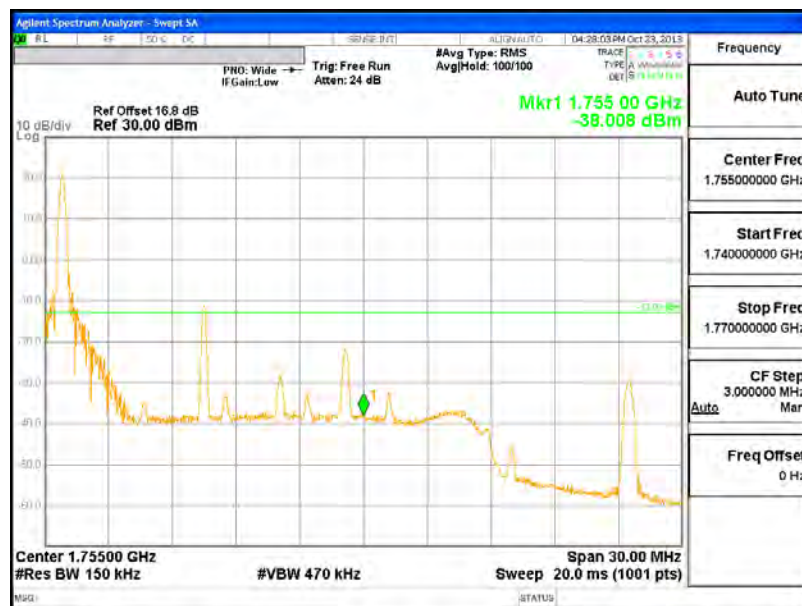


LOW CH, RB50-0



HIGH CH, RB50-0

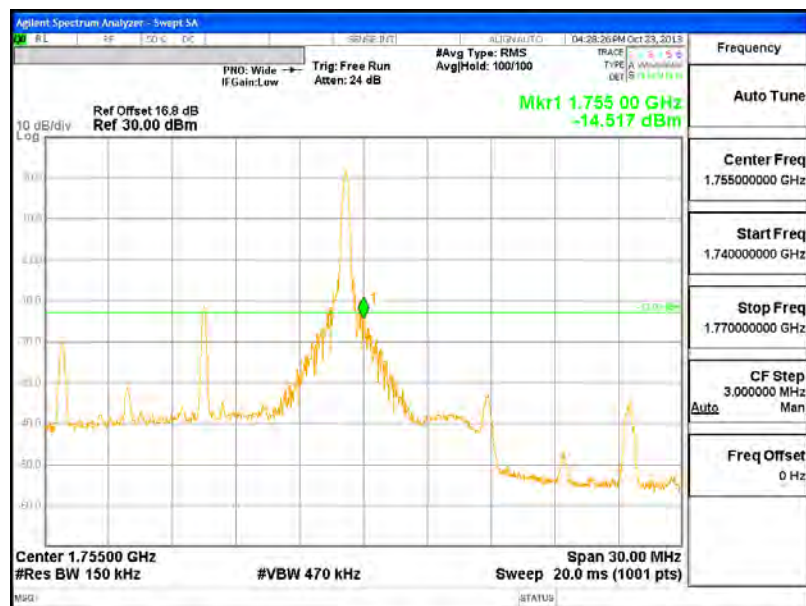


Band 4 (15MHz BANDWIDTH)**LTE QPSK****LOW CH, RB1_0****HIGH CH, RB1-0**

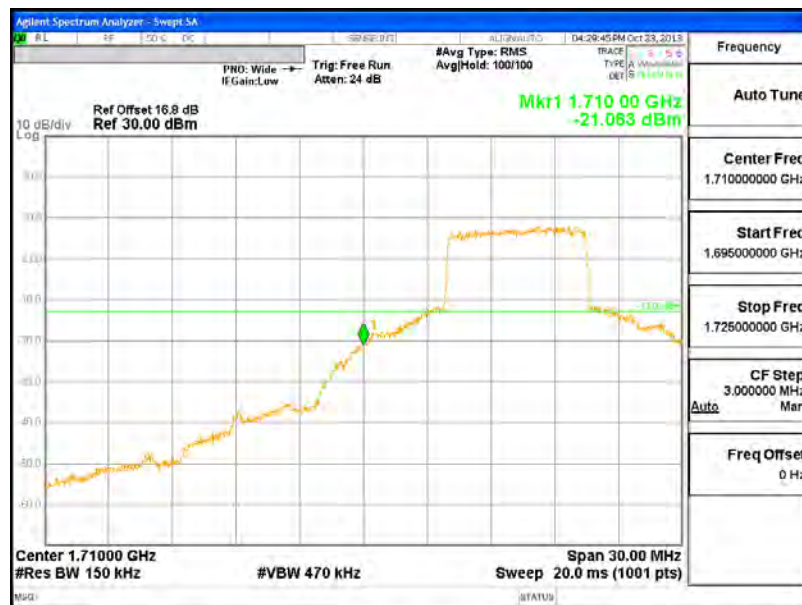
LOW CH, RB1-74



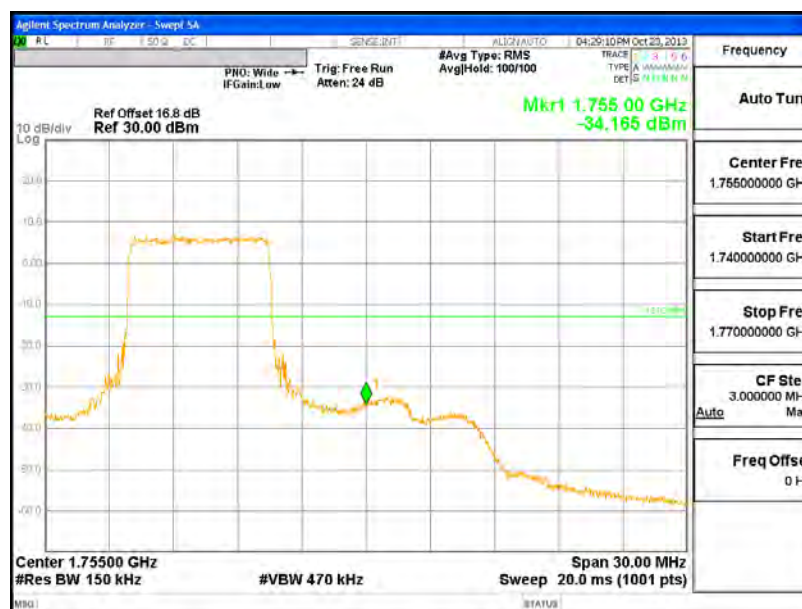
HIGH CH, RB1-74



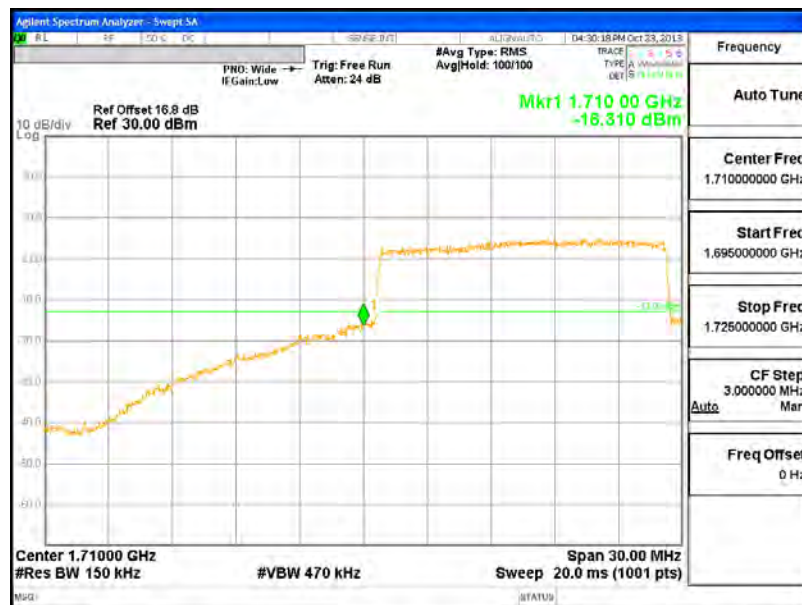
LOW CH, RB36-18



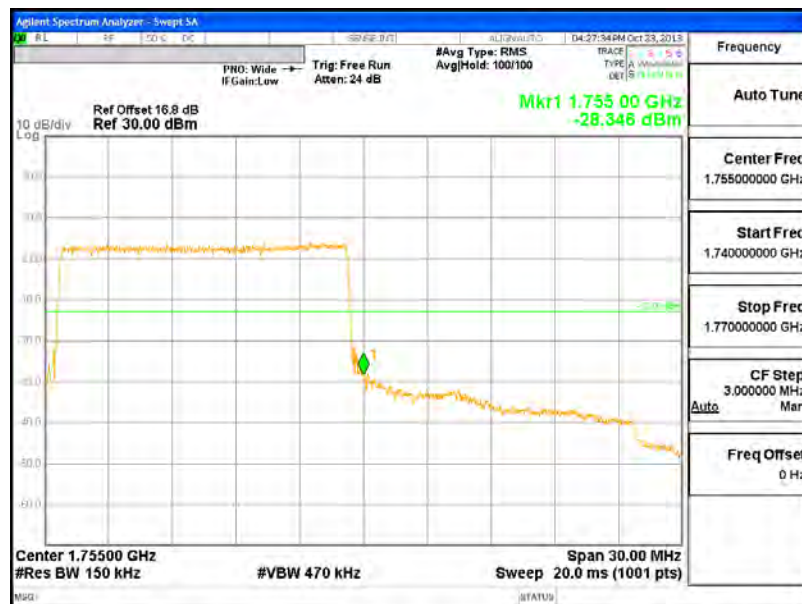
HIGH CH, RB36-18



LOW CH, RB75-0

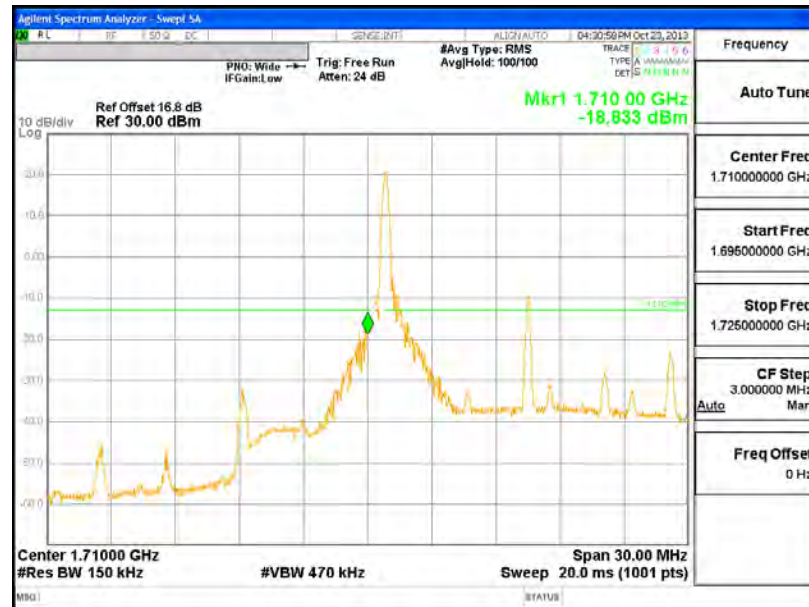


HIGH CH, RB75-0



Band 4 (15MHz BANDWIDTH)**LTE 16QAM**

LOW CH, RB1_0



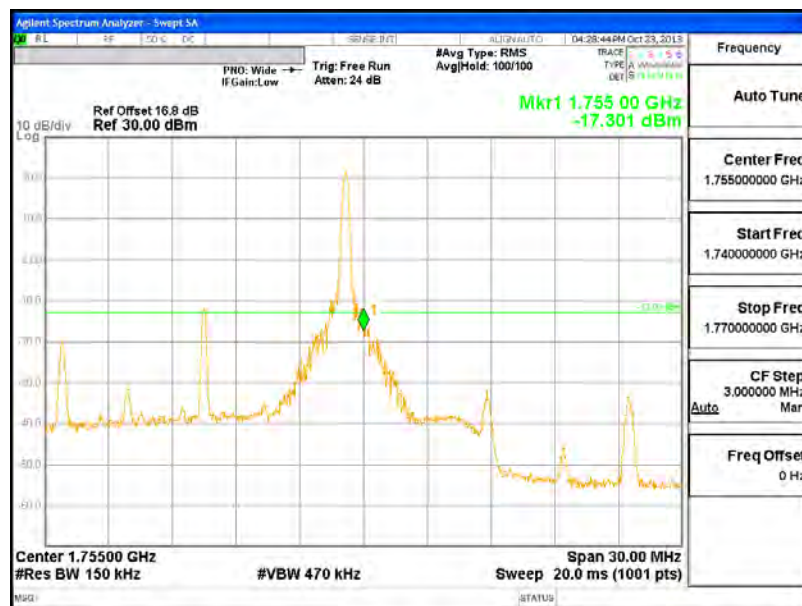
HIGH CH, RB1-0



LOW CH, RB1-74



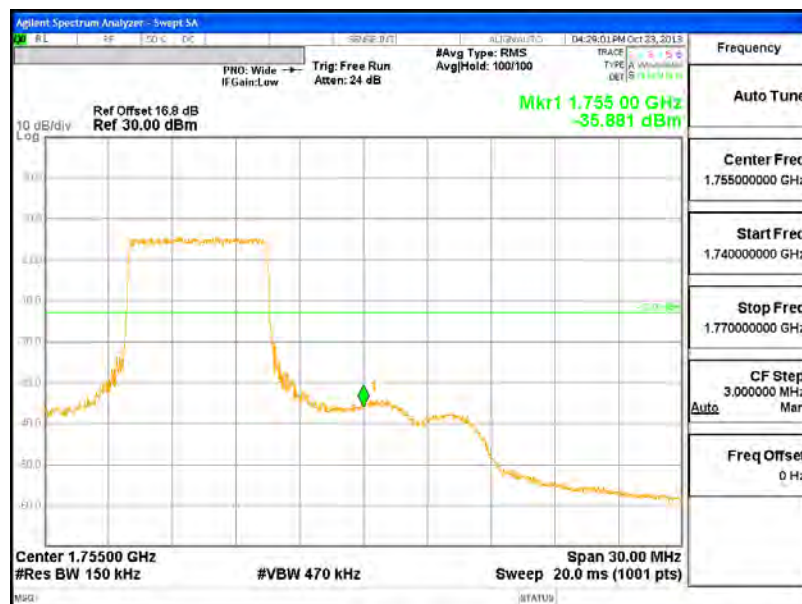
HIGH CH, RB1-74



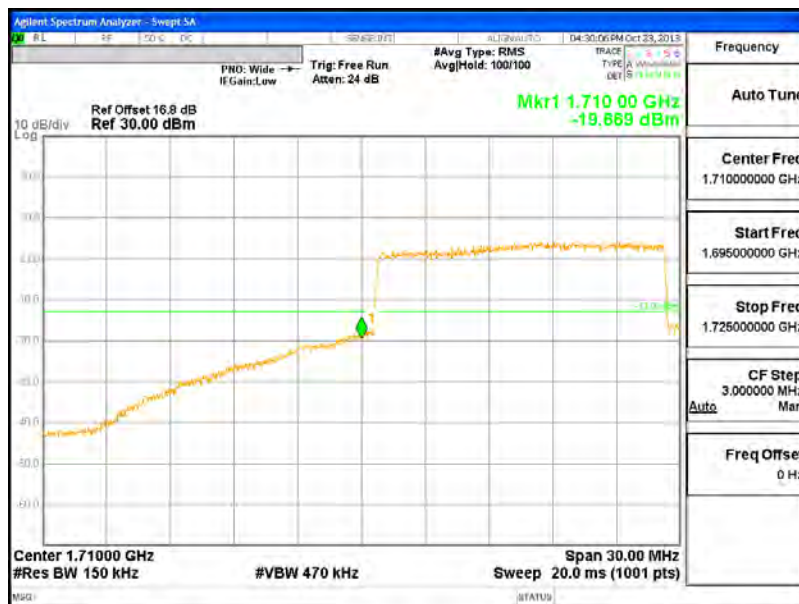
LOW CH, RB36-18



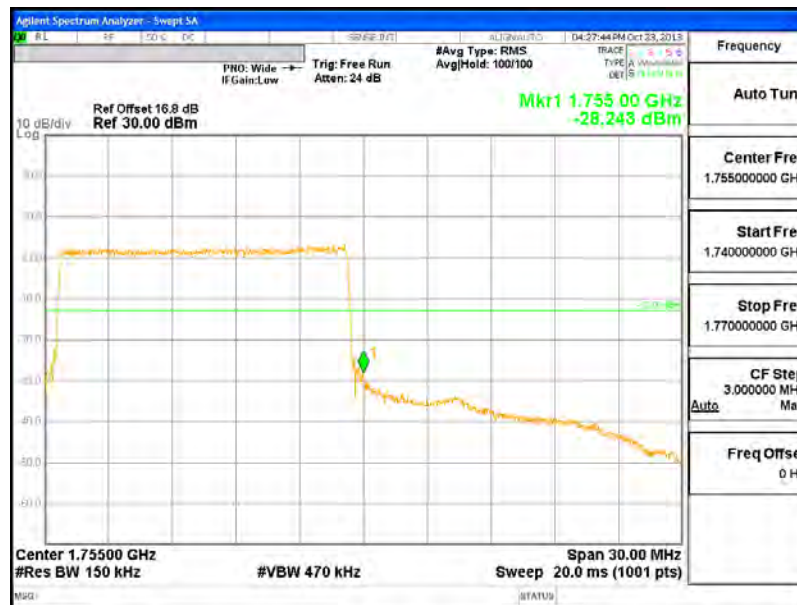
HIGH CH, RB36-18

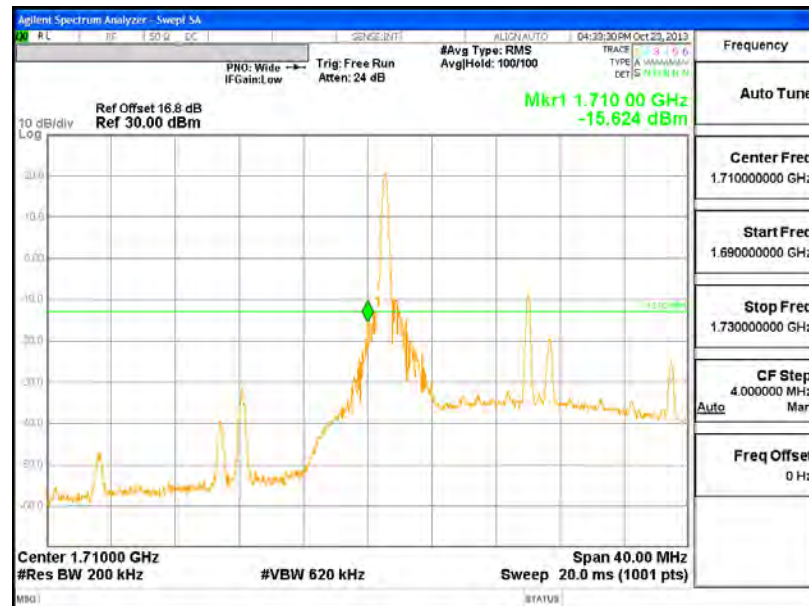
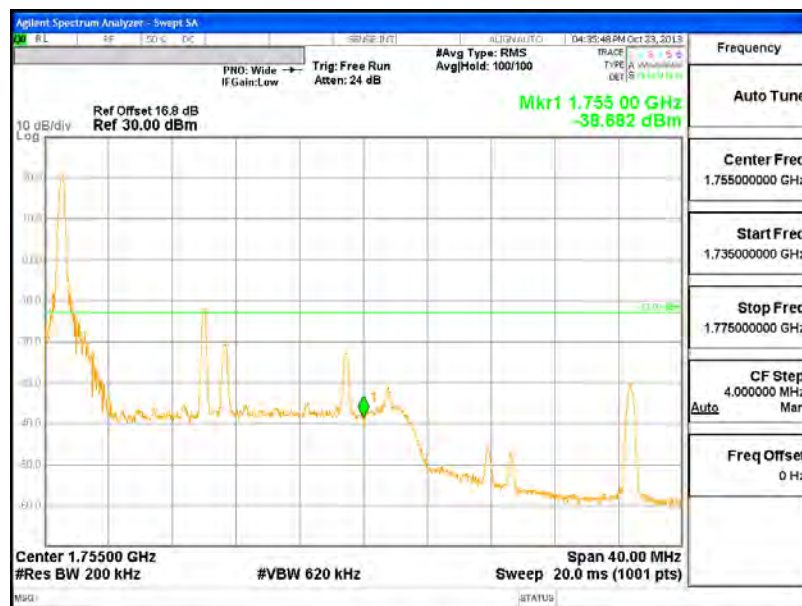


LOW CH, RB75-0

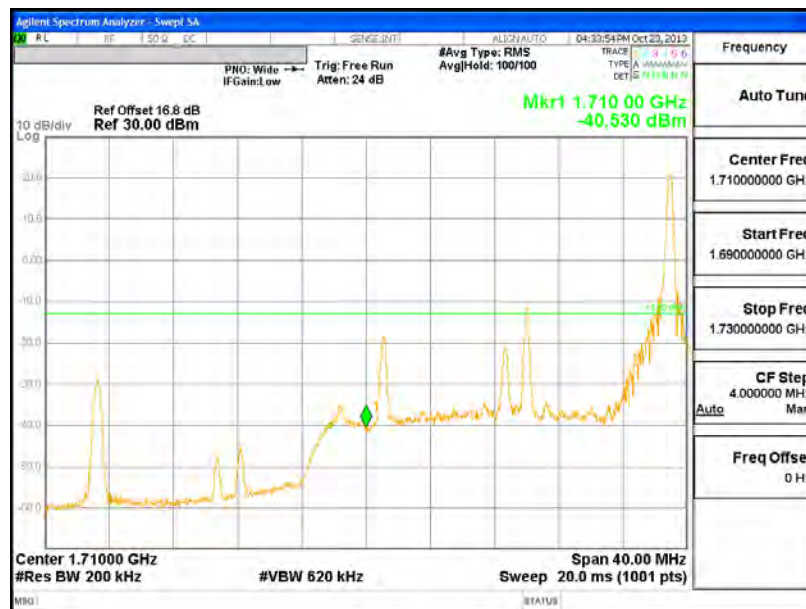


HIGH CH, RB75-0

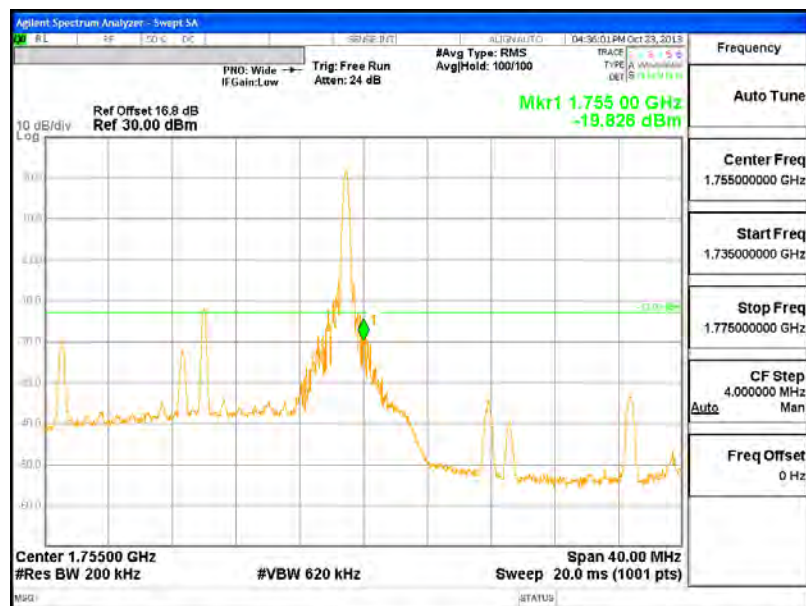


Band 4 (20MHz BANDWIDTH)**LTE QPSK****LOW CH, RB1_0****HIGH CH, RB1-0**

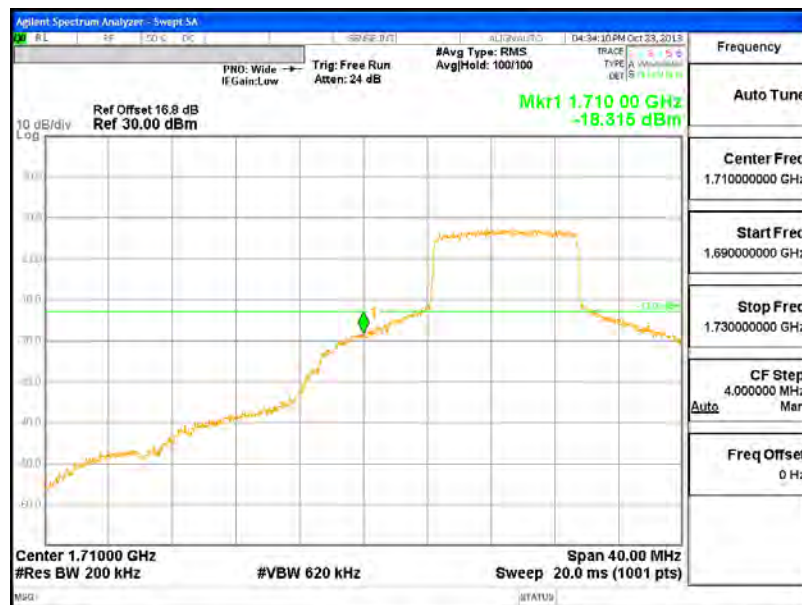
LOW CH, RB1-99



HIGH CH, RB1-99



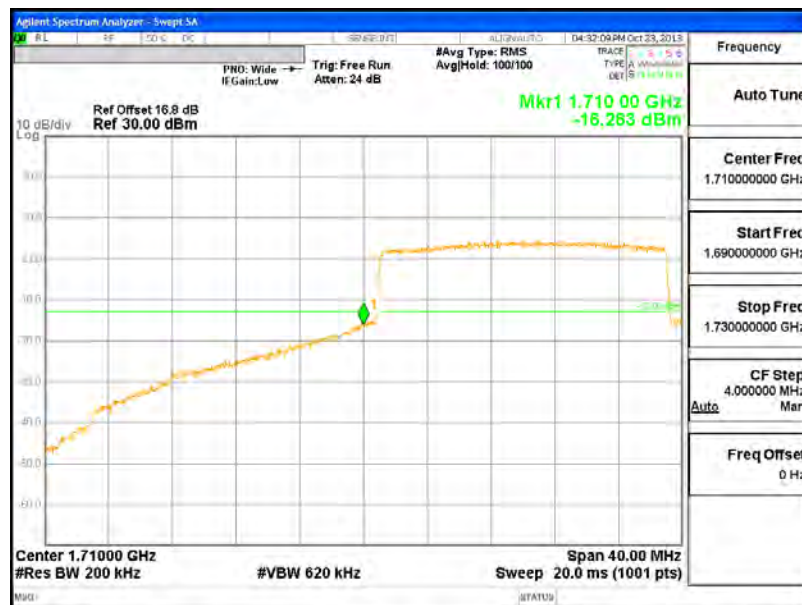
LOW CH, RB50-19



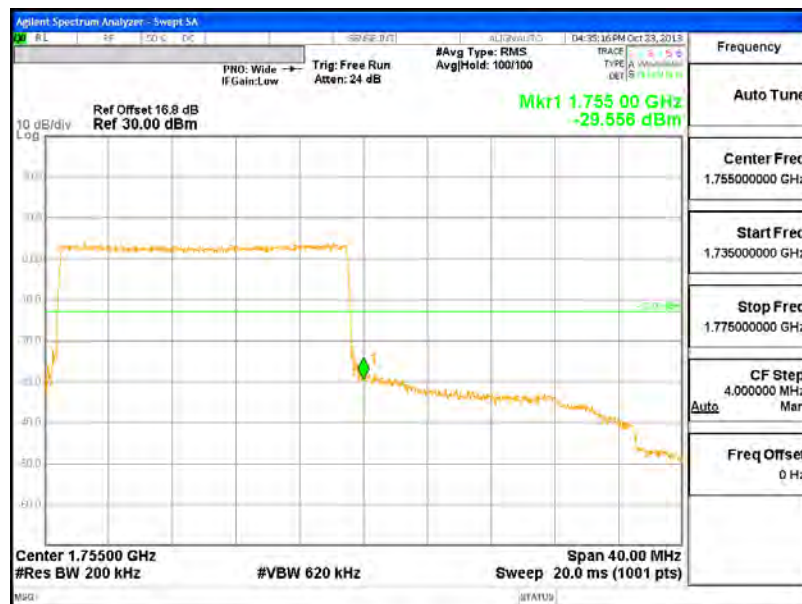
HIGH CH, RB50-19



LOW CH, RB100-0

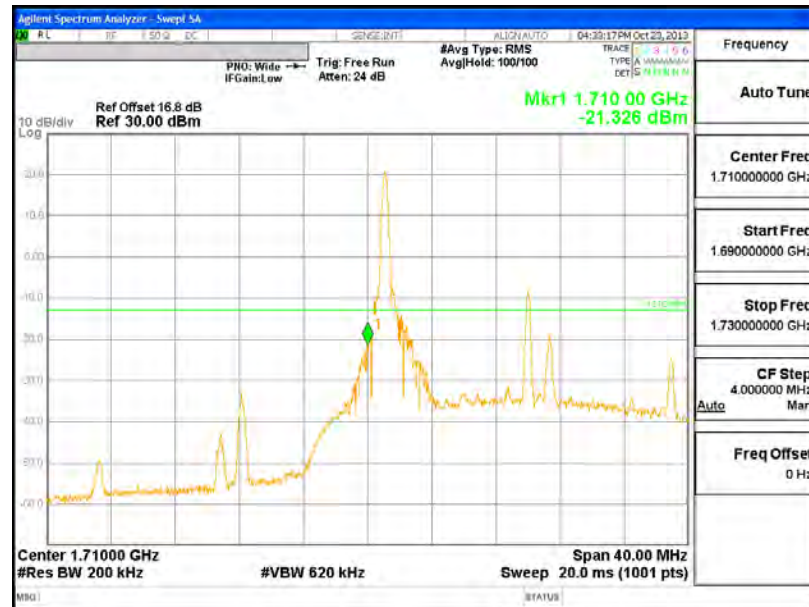


HIGH CH, RB100-0



Band 4 (20MHz BANDWIDTH)**LTE 16QAM**

LOW CH, RB1_0



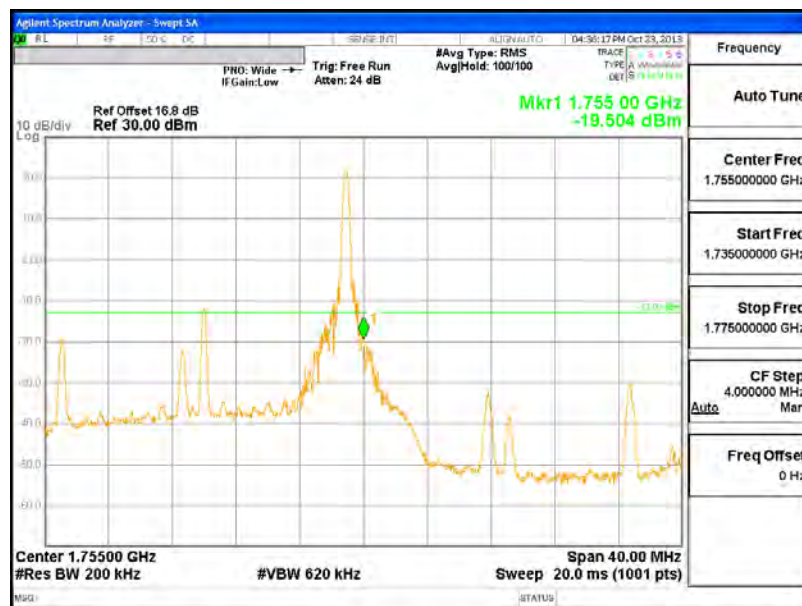
HIGH CH, RB1-0



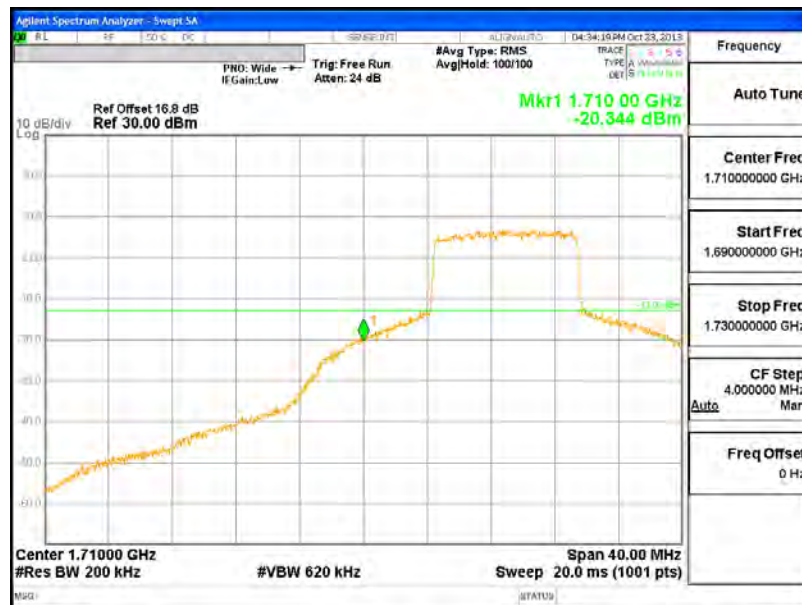
LOW CH, RB1-99



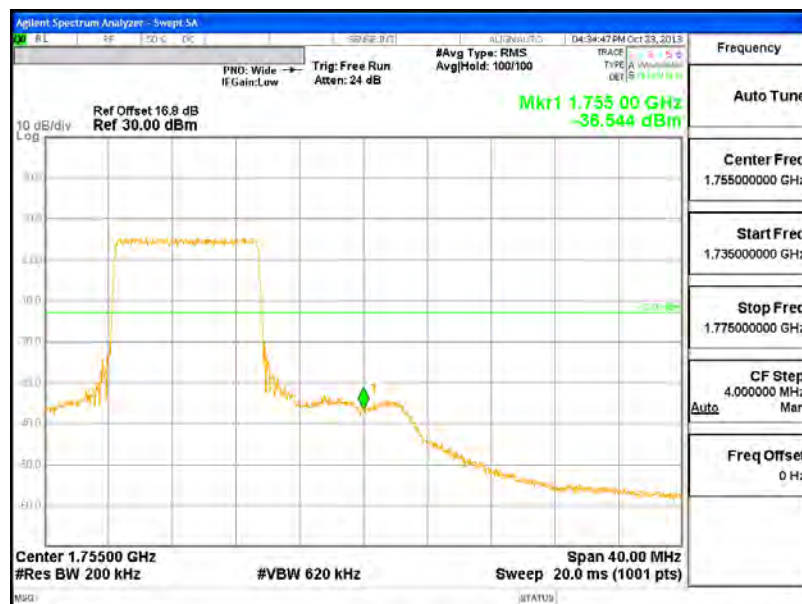
HIGH CH, RB1-99



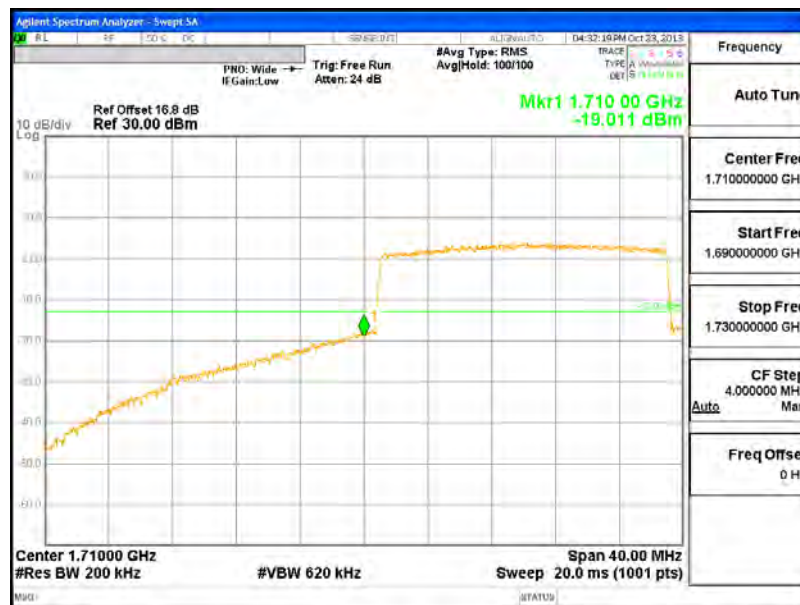
LOW CH, RB50-19



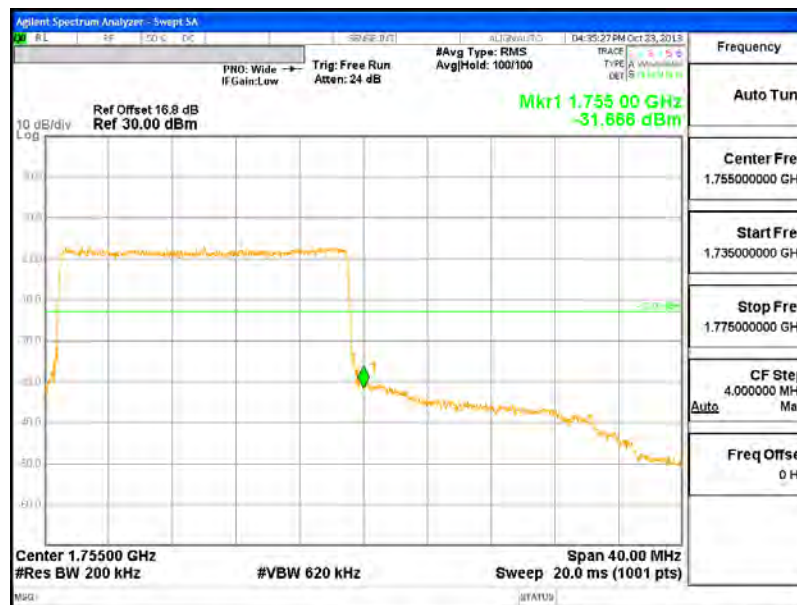
HIGH CH, RB50-19



LOW CH, RB100-0



HIGH CH, RB100-0

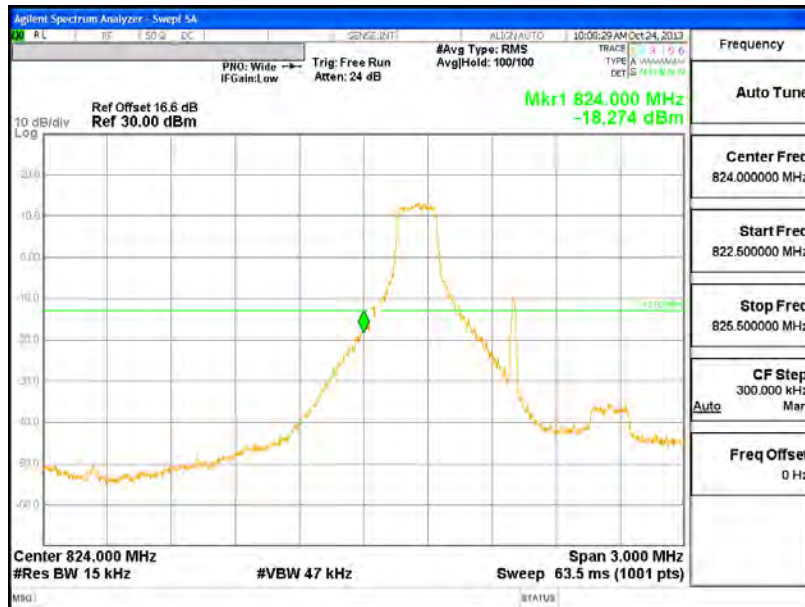


8.2.3. LTE BAND 5

Band 5 (1.4 MHz BANDWIDTH)

LTE QPSK

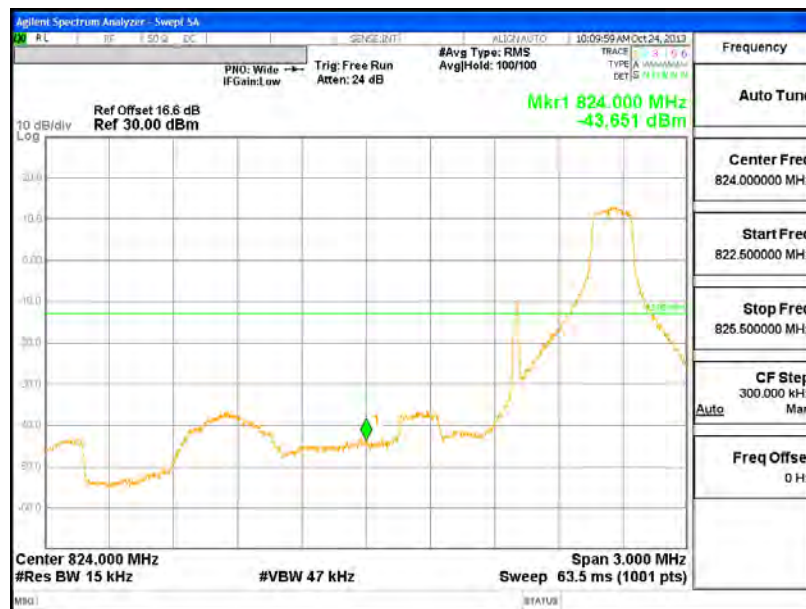
LOW CH, RB1_0



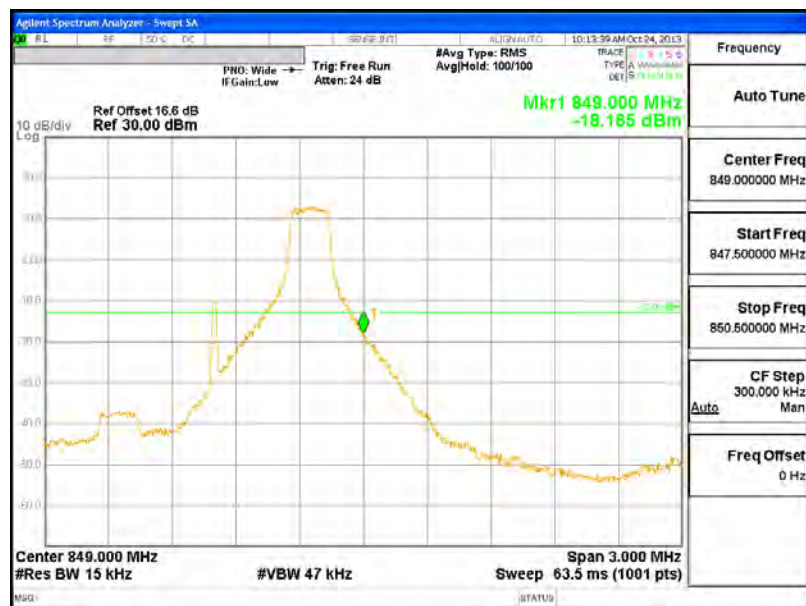
HIGH CH, RB1-0



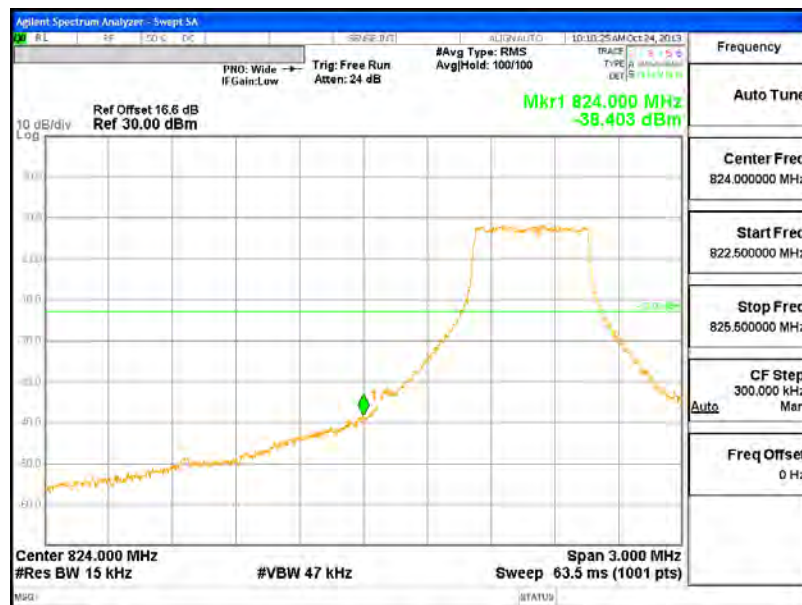
LOW CH, RB1-5



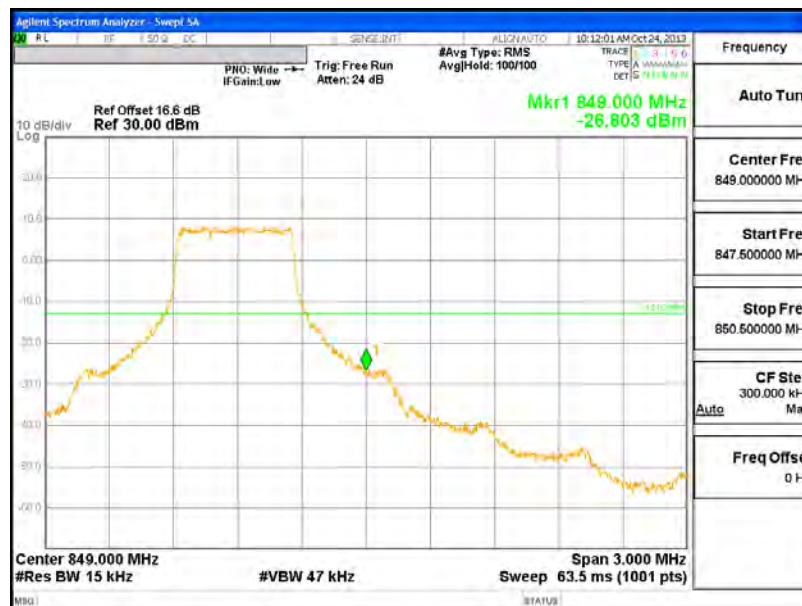
HIGH CH, RB1-5



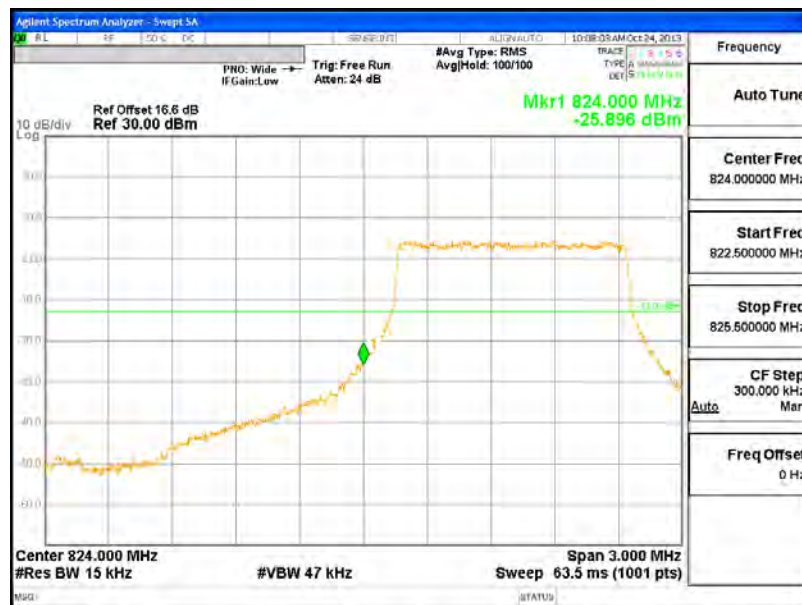
LOW CH, RB3-2



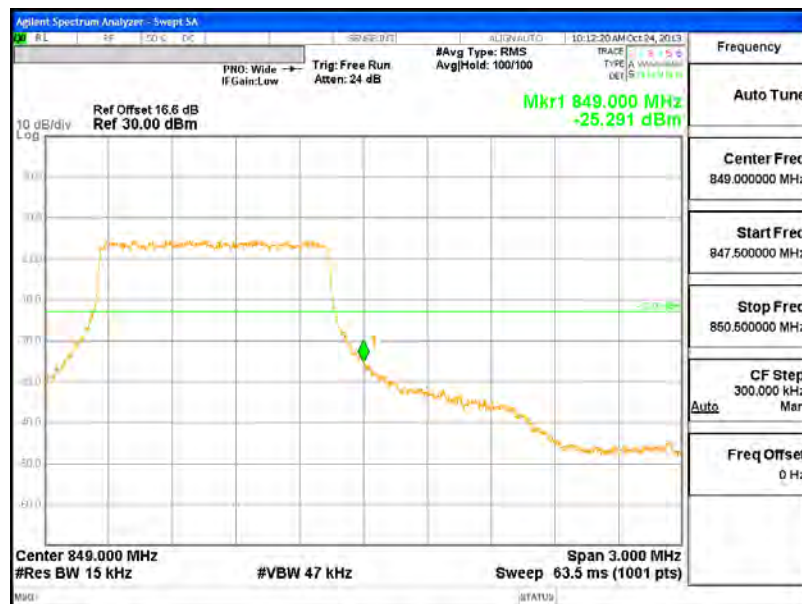
HIGH CH, RB3-2

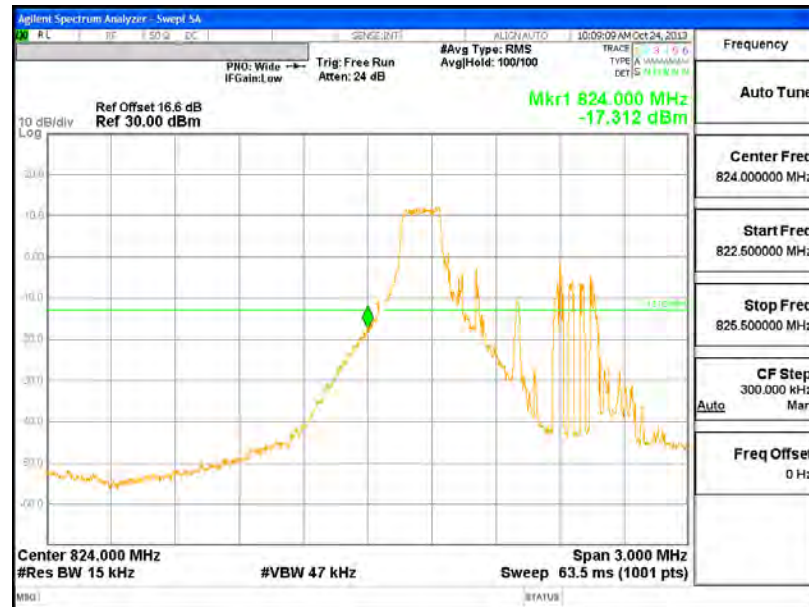


LOW CH, RB6-0

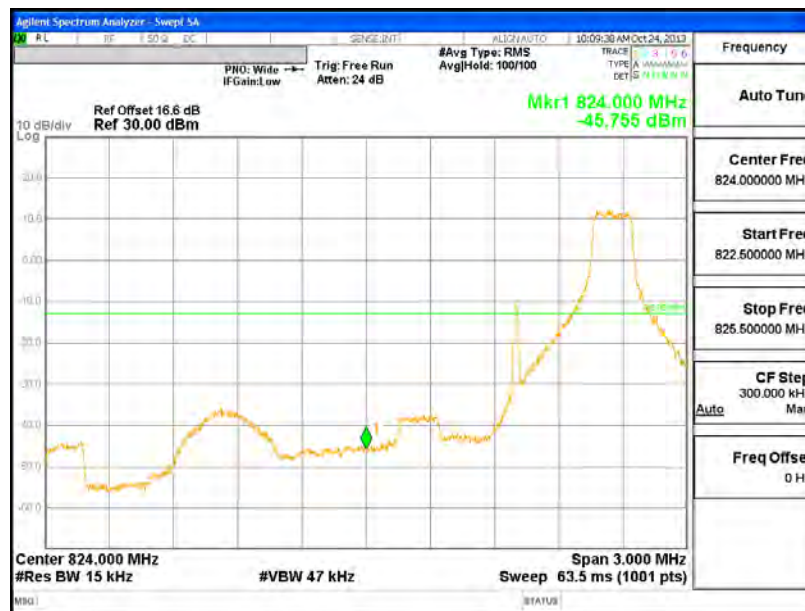


HIGH CH, RB6-0

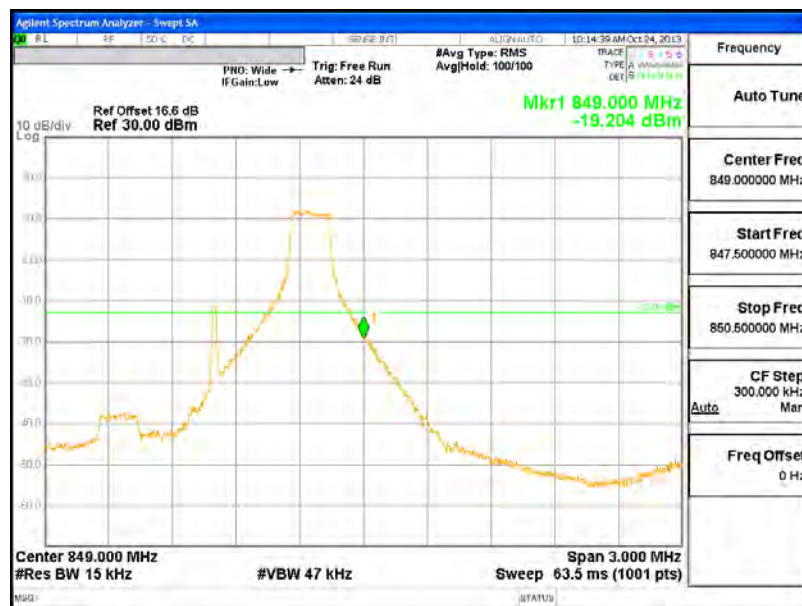


Band 5 (1.4 MHz BANDWIDTH)**LTE 16QAM****LOW CH, RB1_0****HIGH CH, RB1-0**

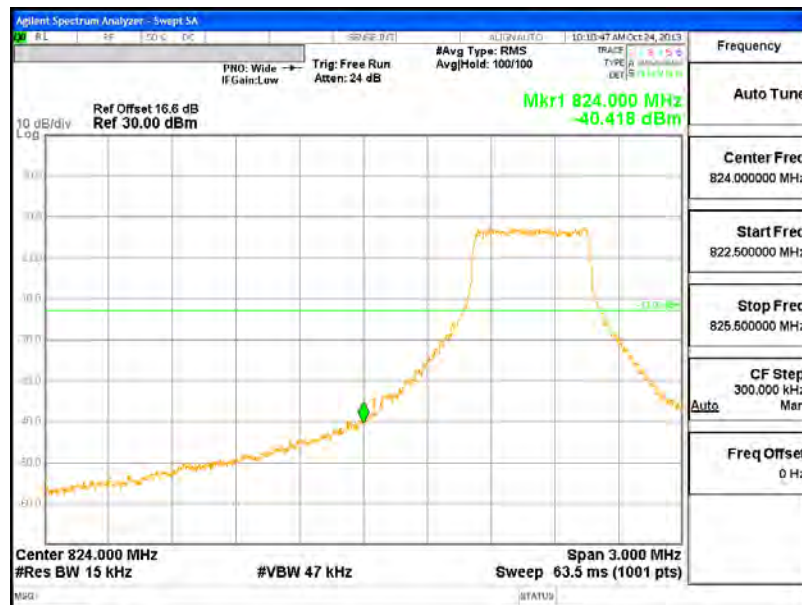
LOW CH, RB1-5



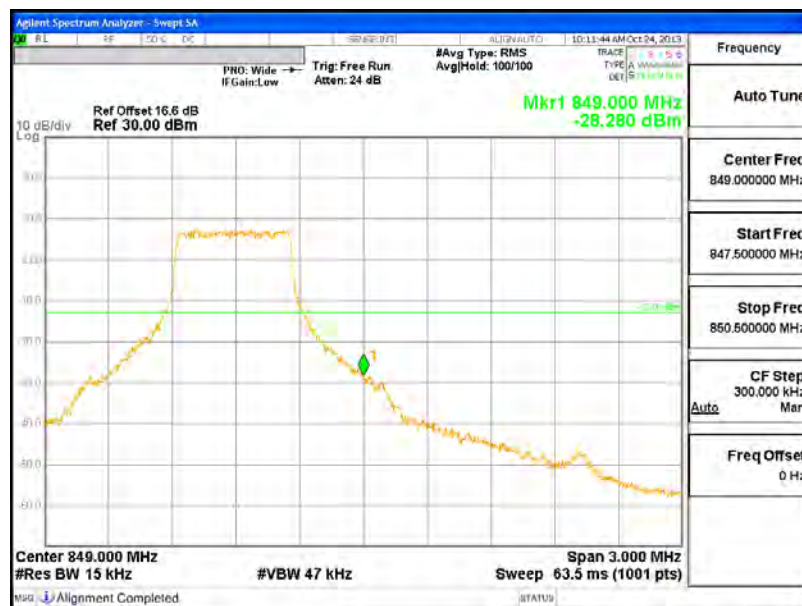
HIGH CH, RB1-5



LOW CH, RB3-2



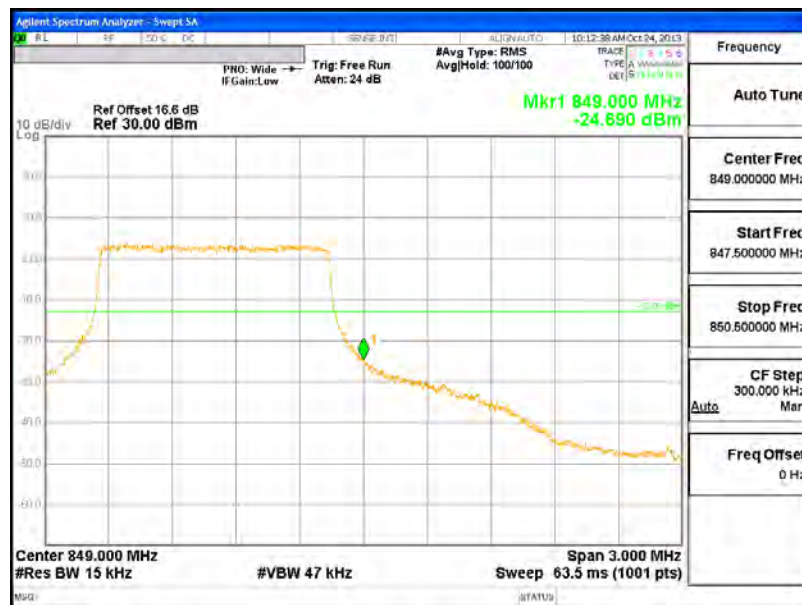
HIGH CH, RB3-2

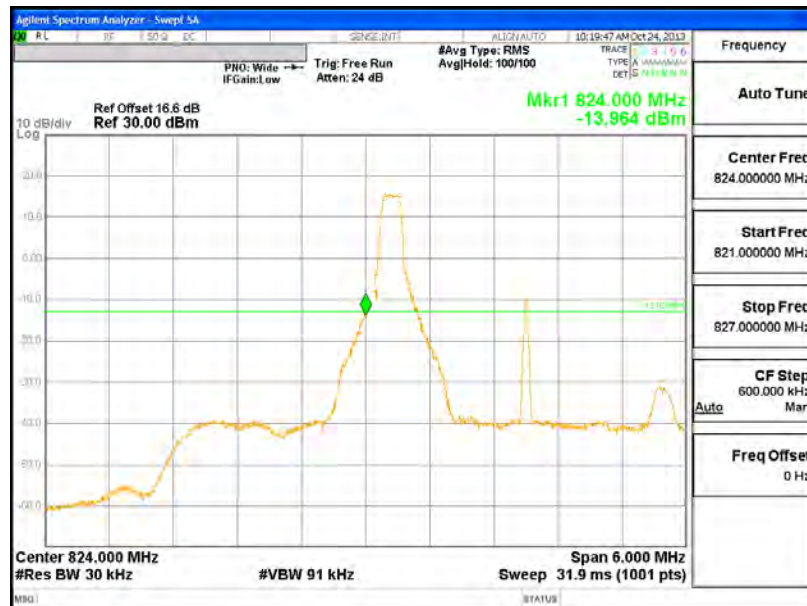
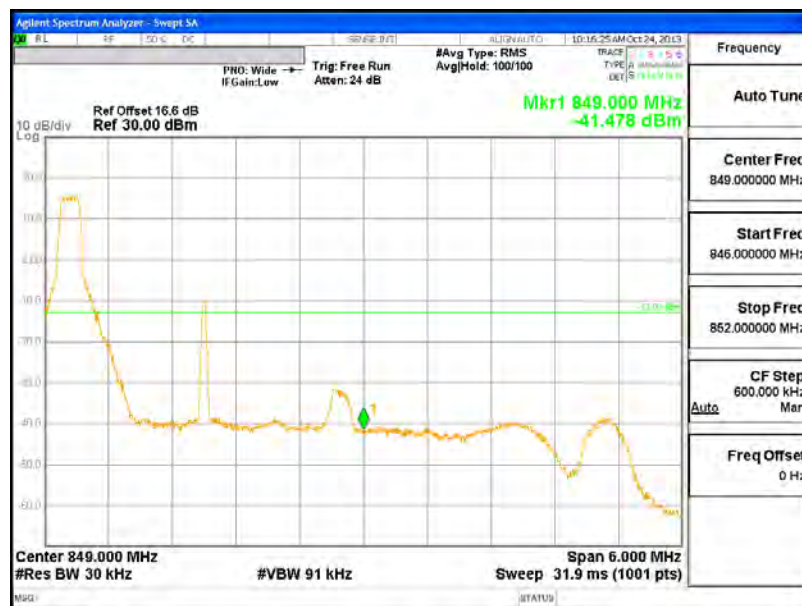


LOW CH, RB6-0

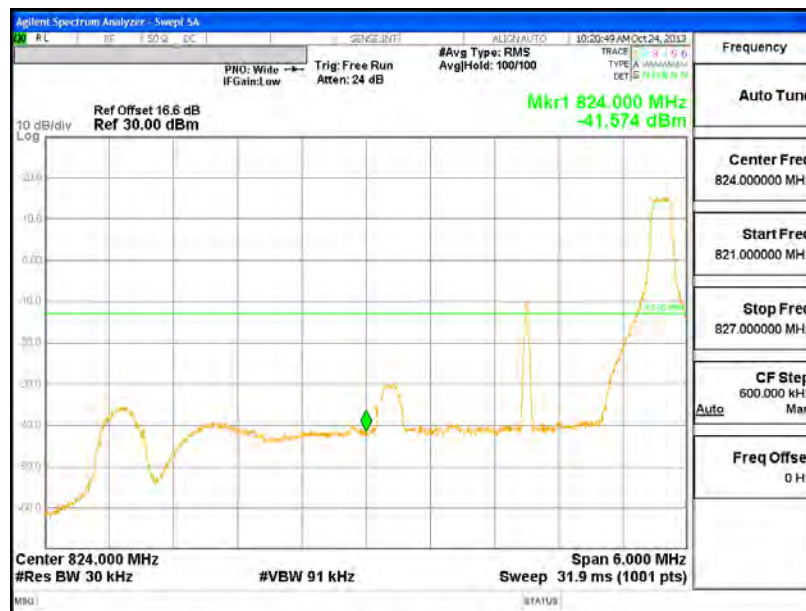


HIGH CH, RB6-0

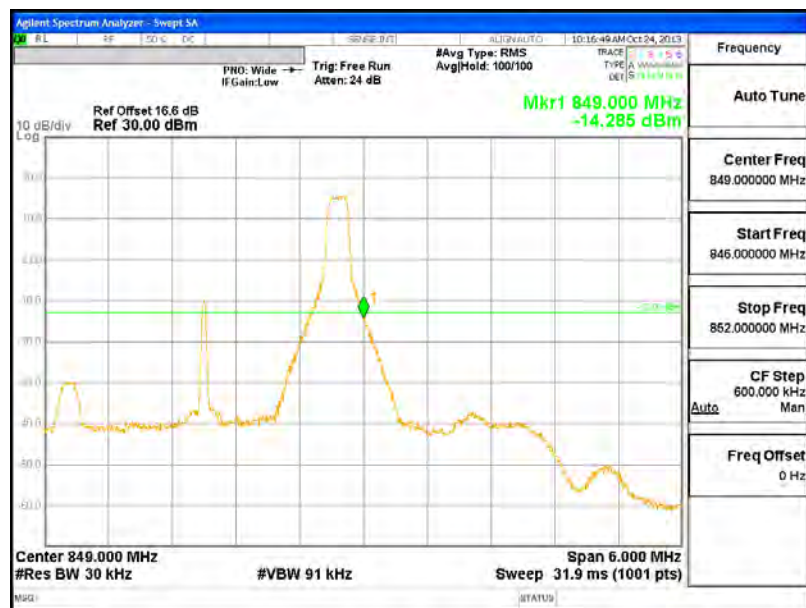


Band 5 (3MHz BANDWIDTH)**LTE QPSK****LOW CH, RB1_0****HIGH CH, RB1-0**

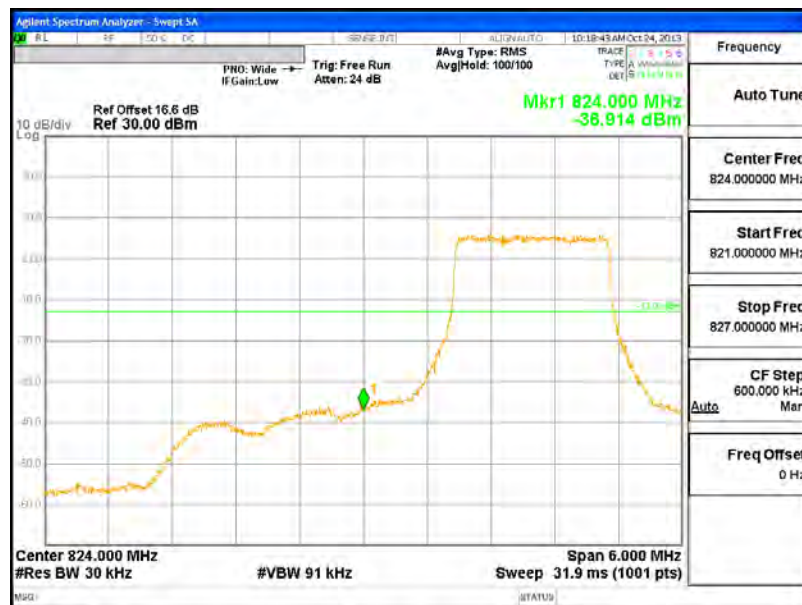
LOW CH, RB1-14



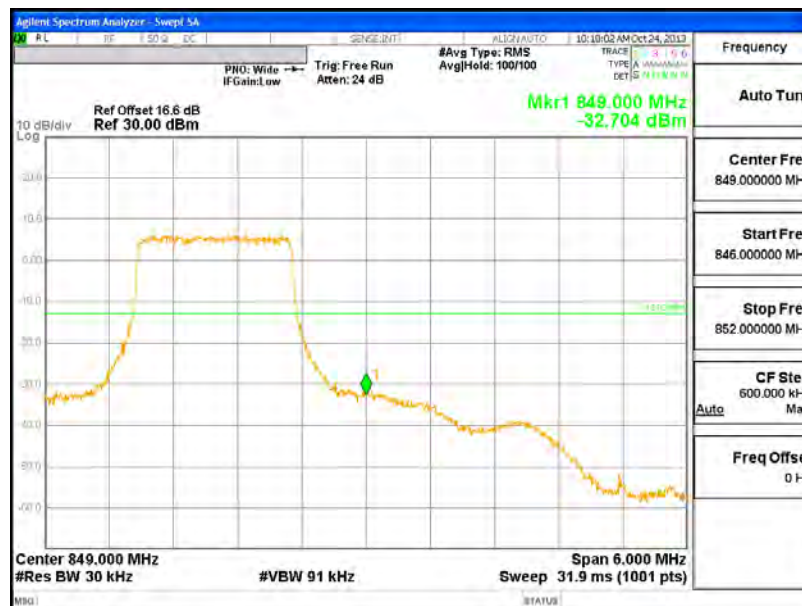
HIGH CH, RB1-14



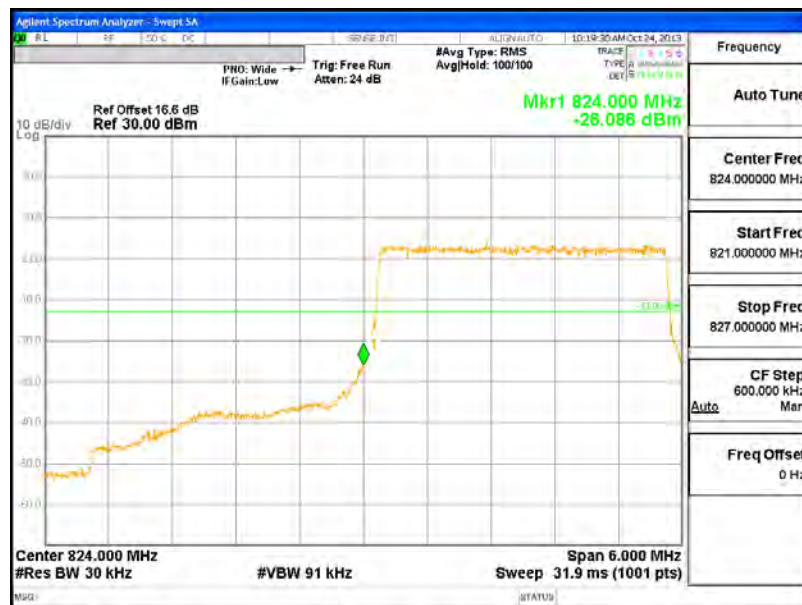
LOW CH, RB8-4



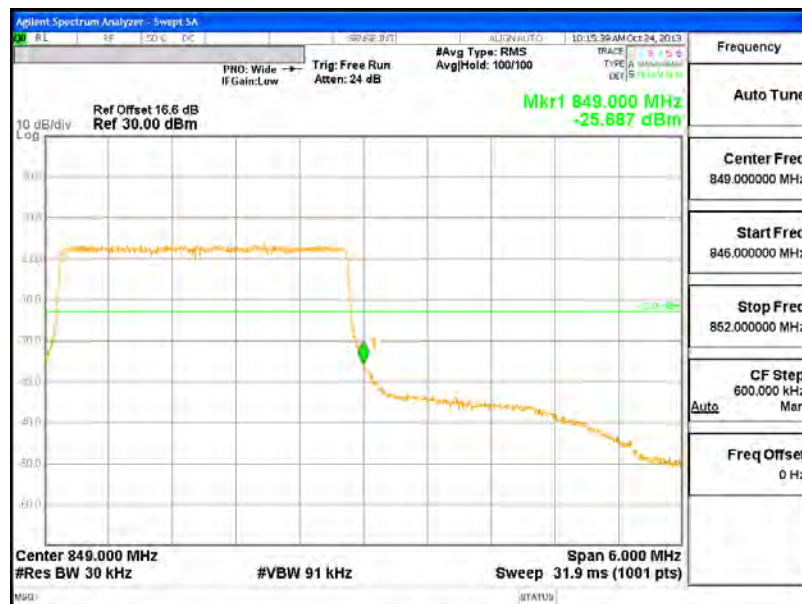
HIGH CH, RB8-4



LOW CH, RB15-0

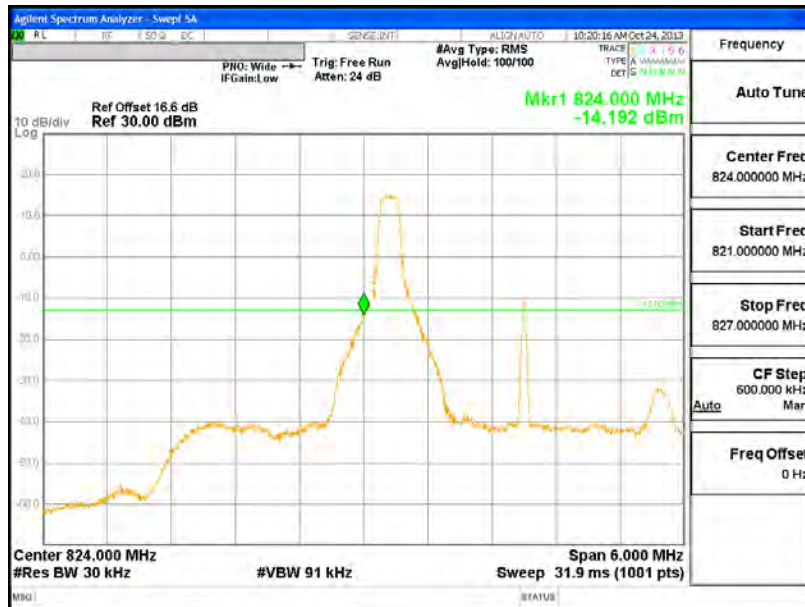


HIGH CH, RB15-0

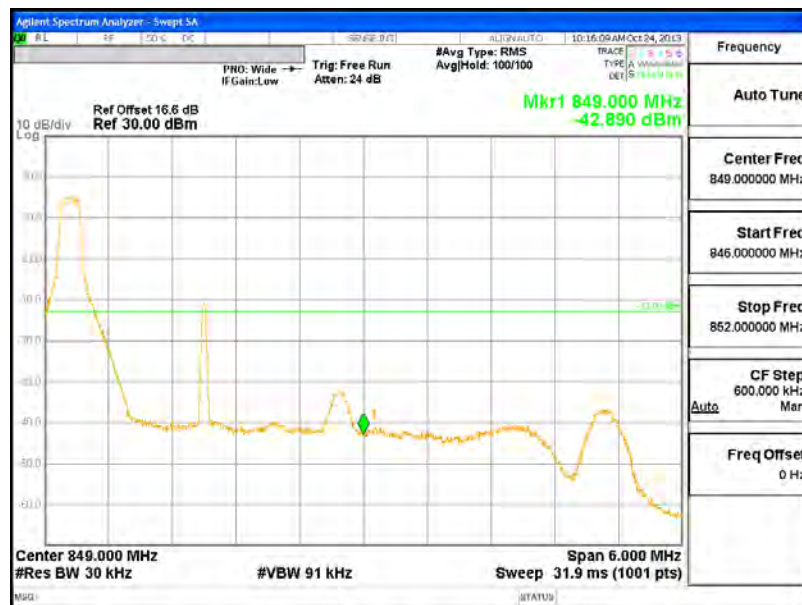


Band 5 (3MHz BANDWIDTH)**LTE 16QAM**

LOW CH, RB1_0



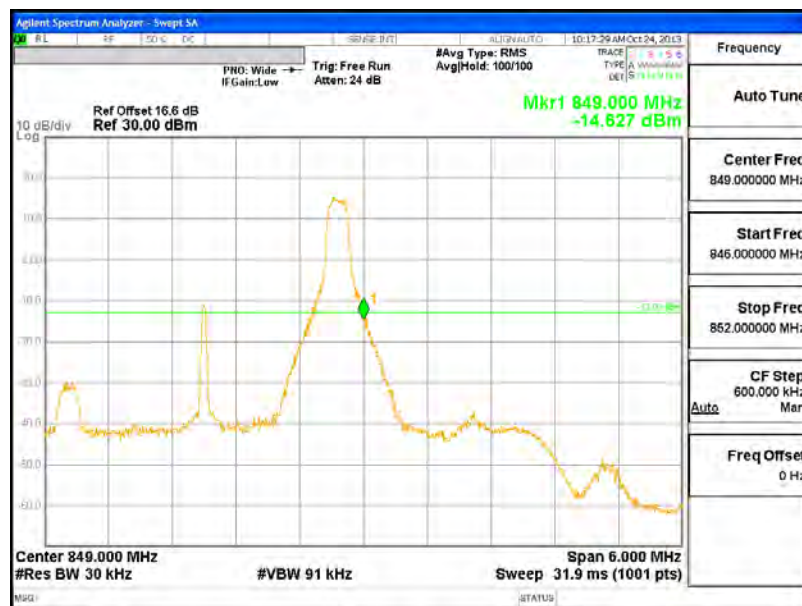
HIGH CH, RB1-0



LOW CH, RB1-14



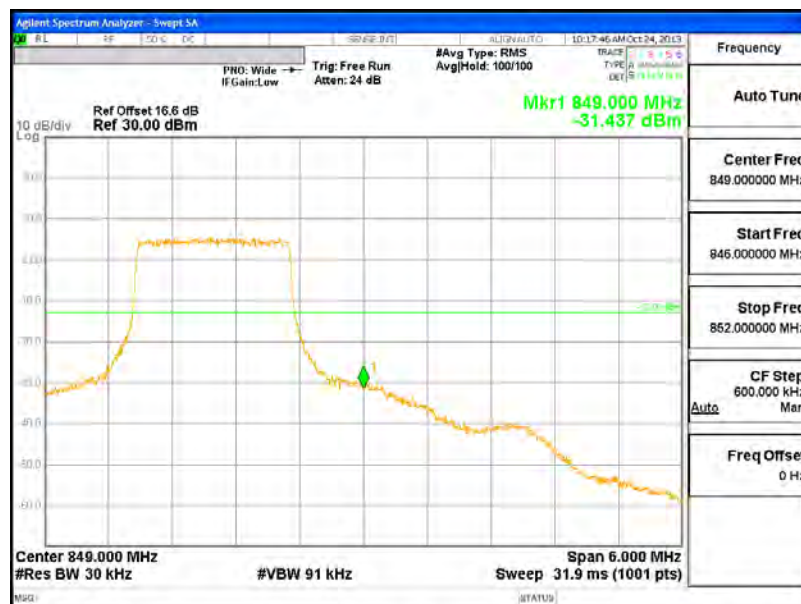
HIGH CH, RB1-14



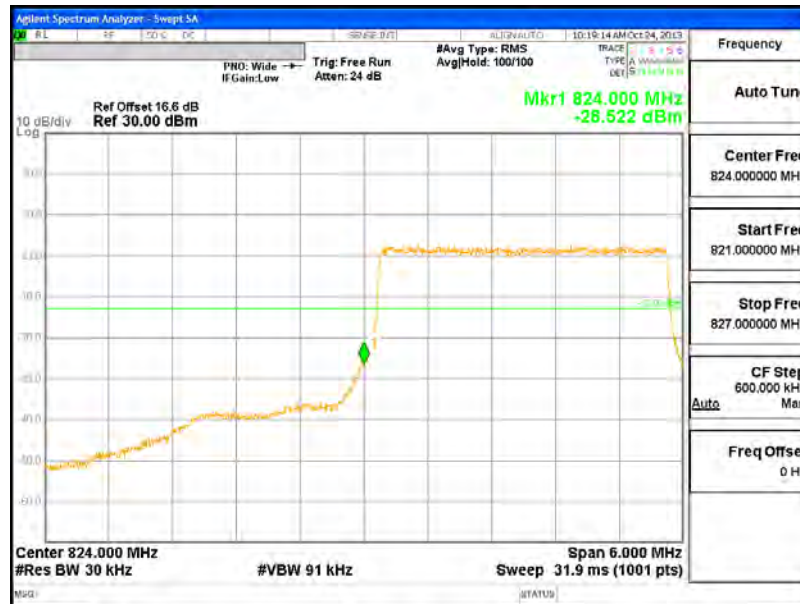
LOW CH, RB8-4



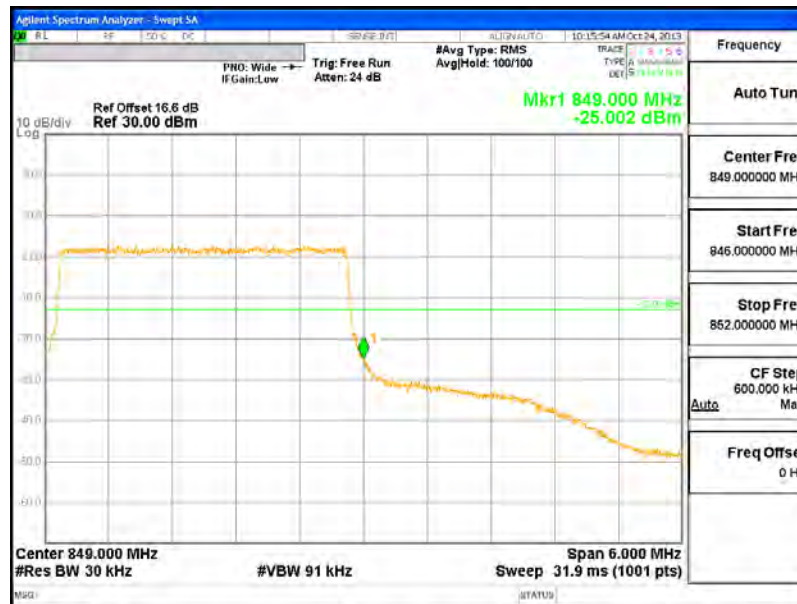
HIGH CH, RB8-4

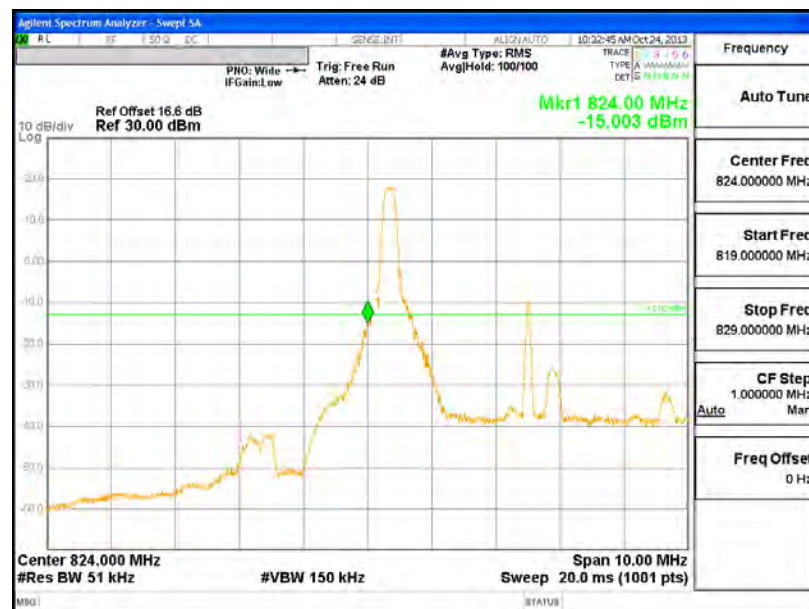
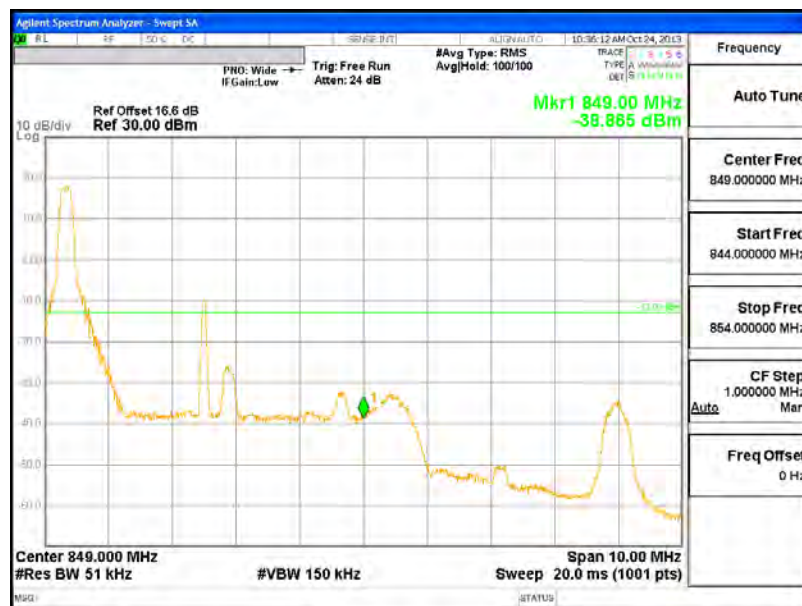


LOW CH, RB15-0

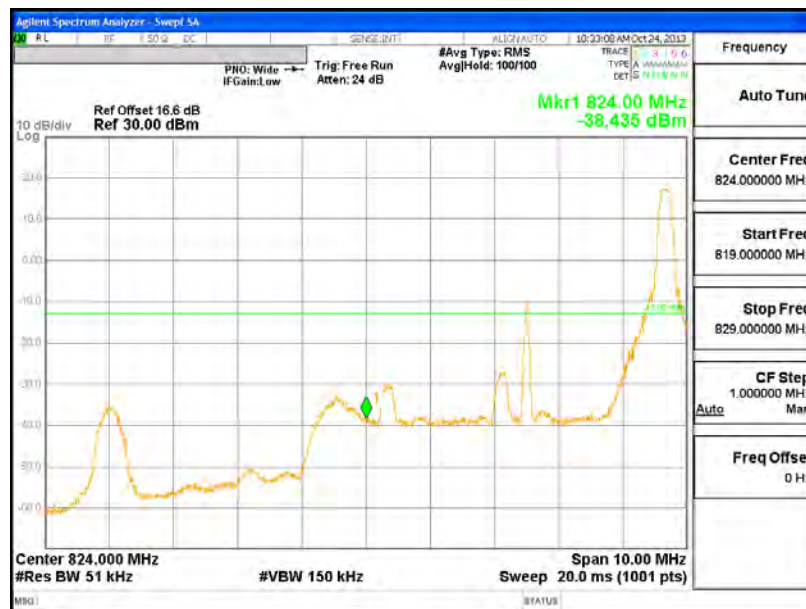


HIGH CH, RB15-0

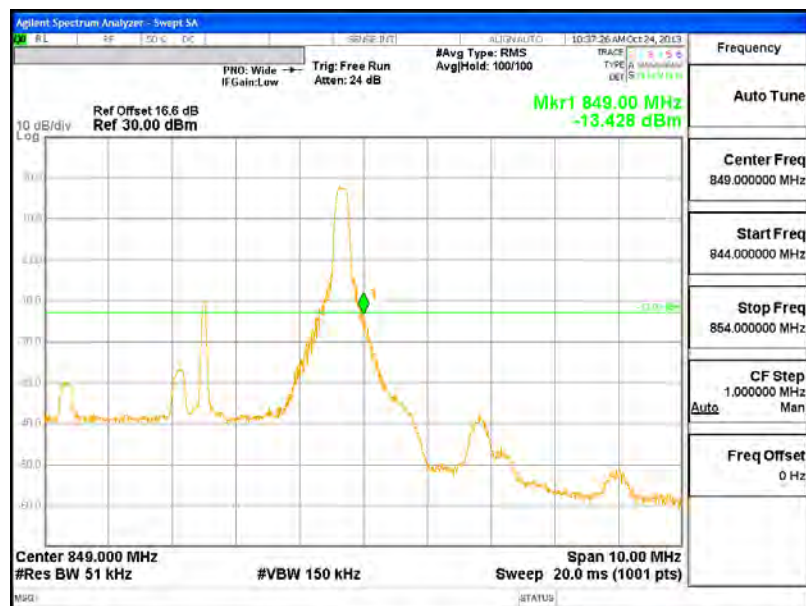


Band 5 (5MHz BANDWIDTH)**LTE QPSK****LOW CH, RB1_0****HIGH CH, RB1-0**

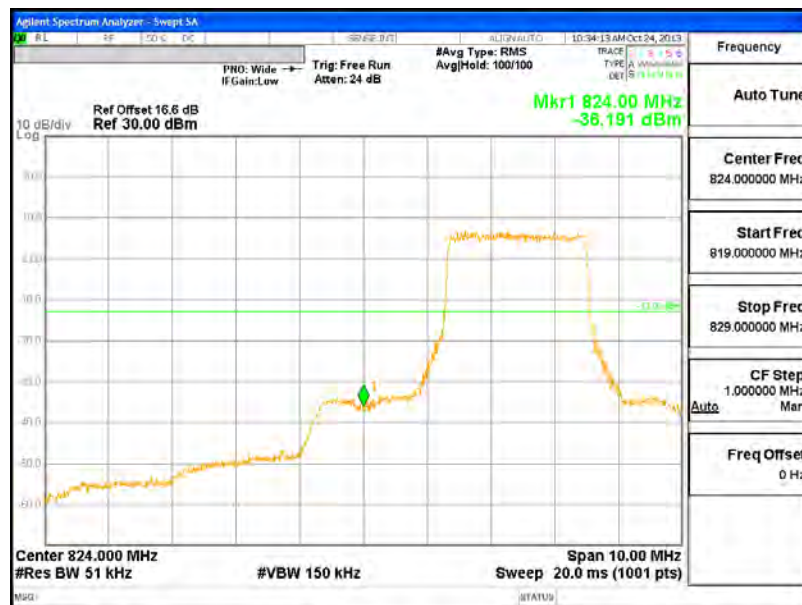
LOW CH, RB1-24



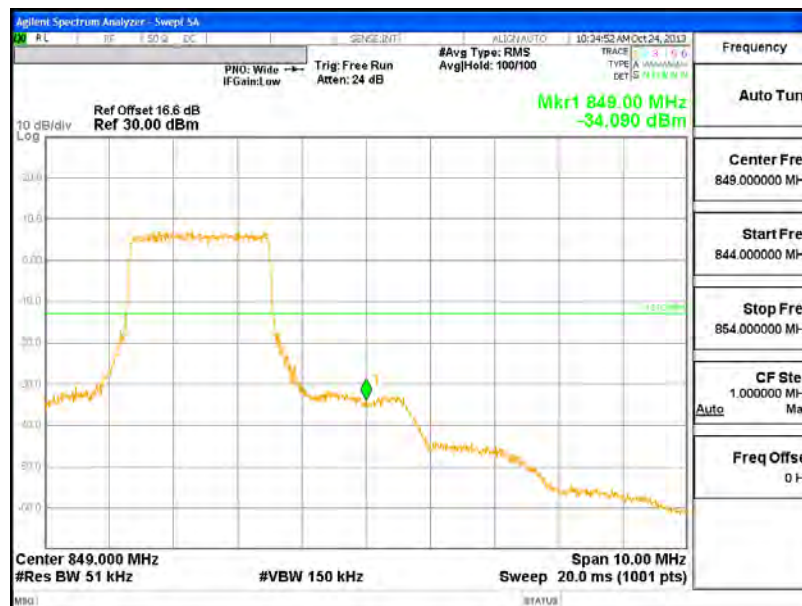
HIGH CH, RB1-24



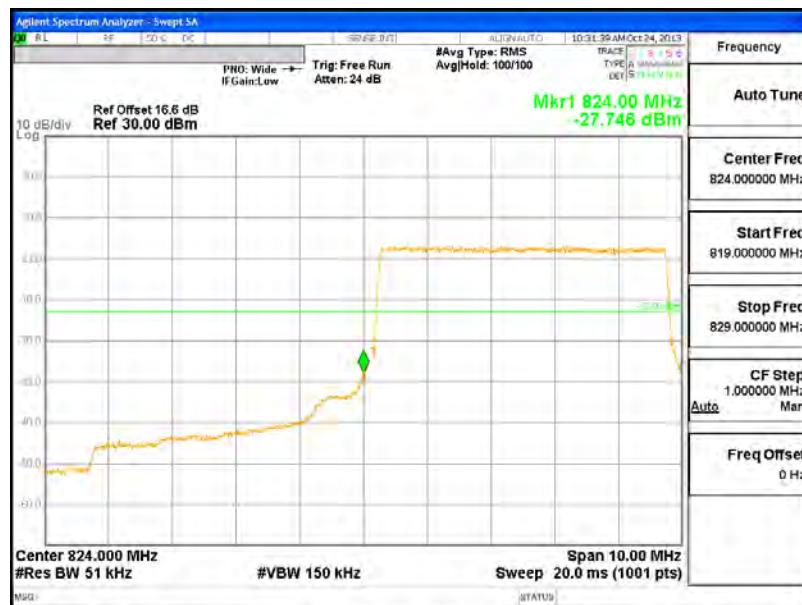
LOW CH, RB12-6



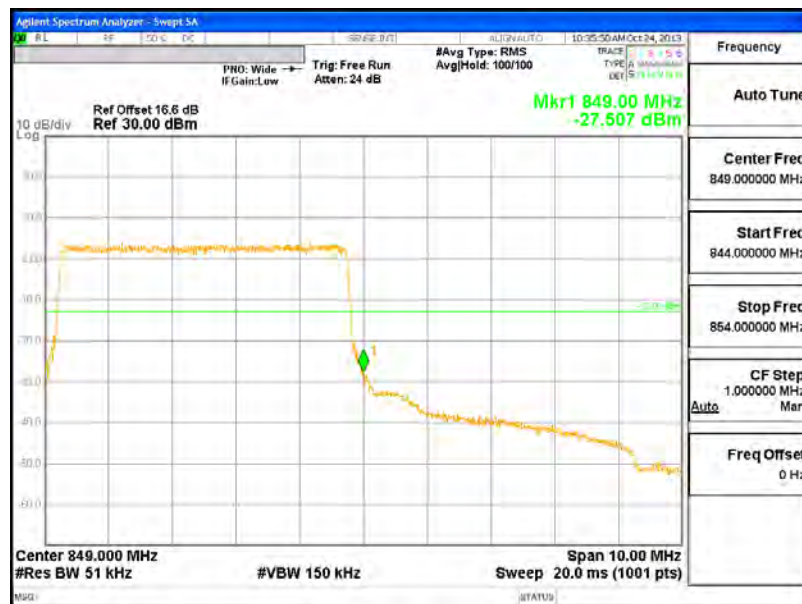
HIGH CH, RB12-6



LOW CH, RB25-0

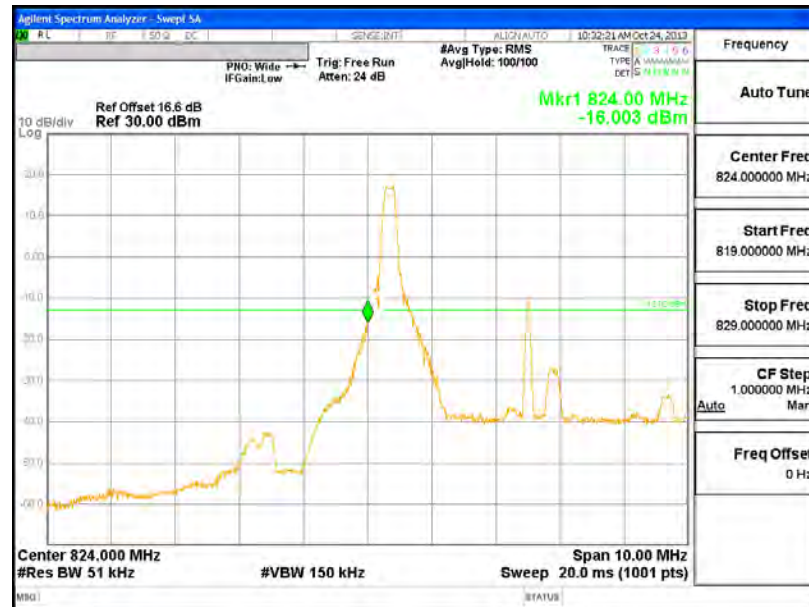


HIGH CH, RB25-0

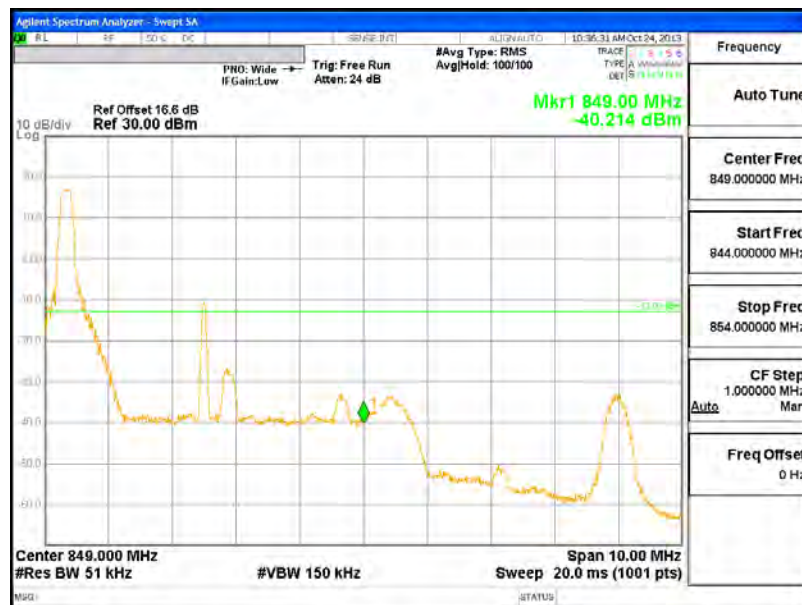


Band 5 (5MHz BANDWIDTH)**LTE 16QAM**

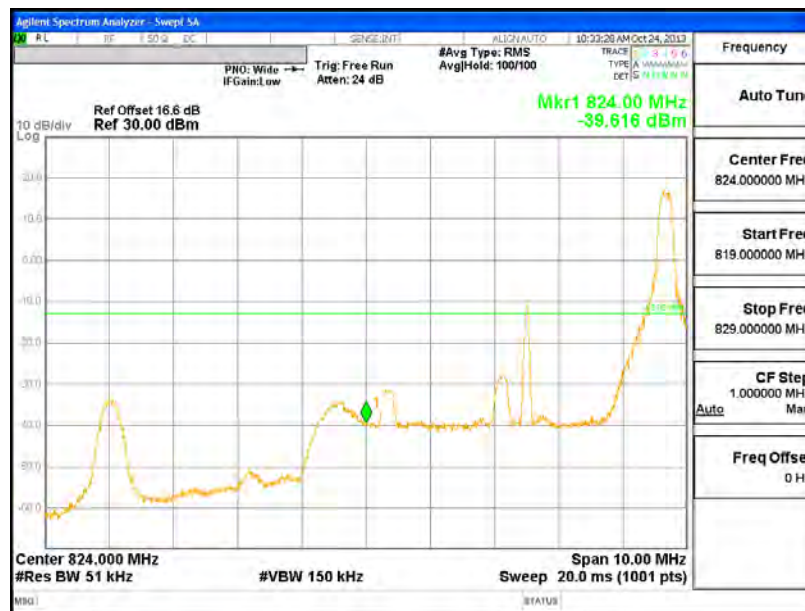
LOW CH, RB1_0



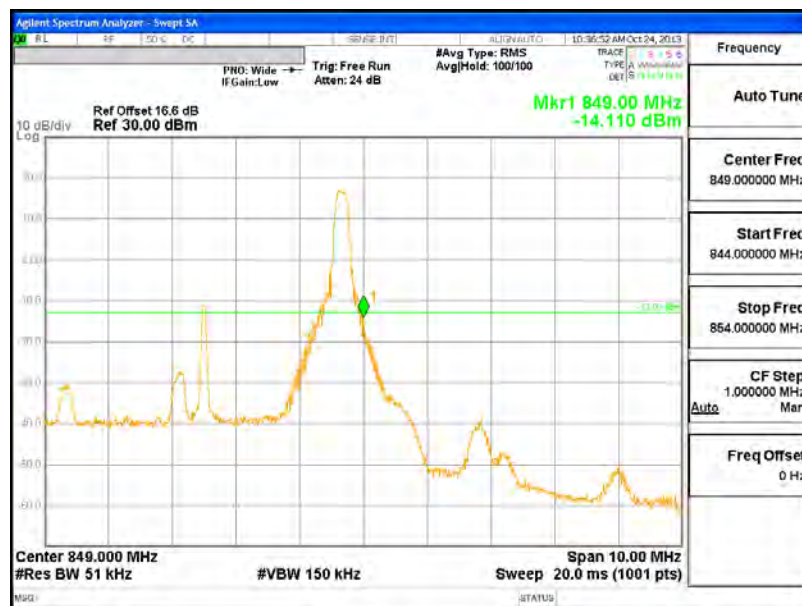
HIGH CH, RB1-0



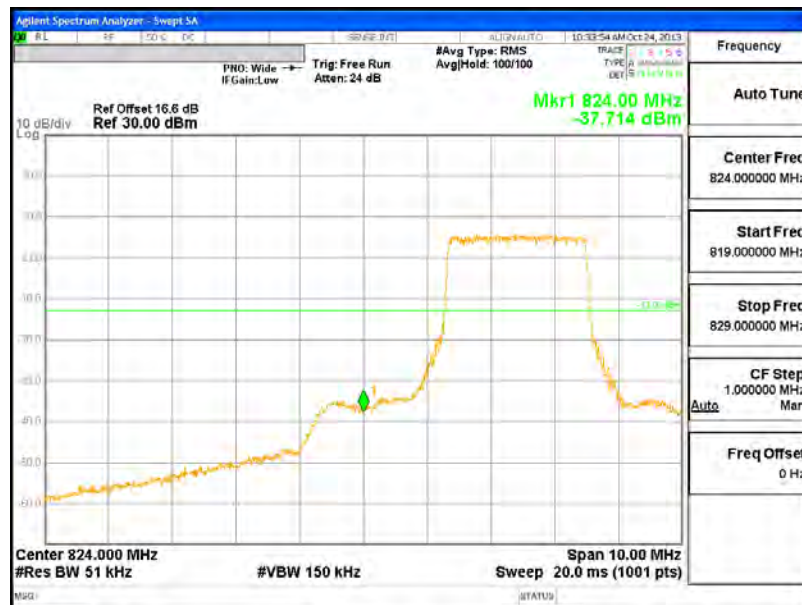
LOW CH, RB1-24



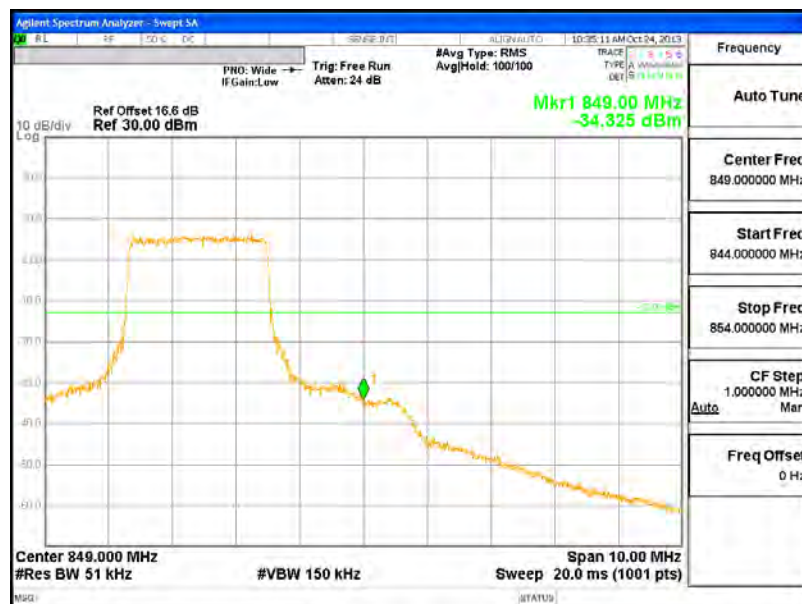
HIGH CH, RB1-24



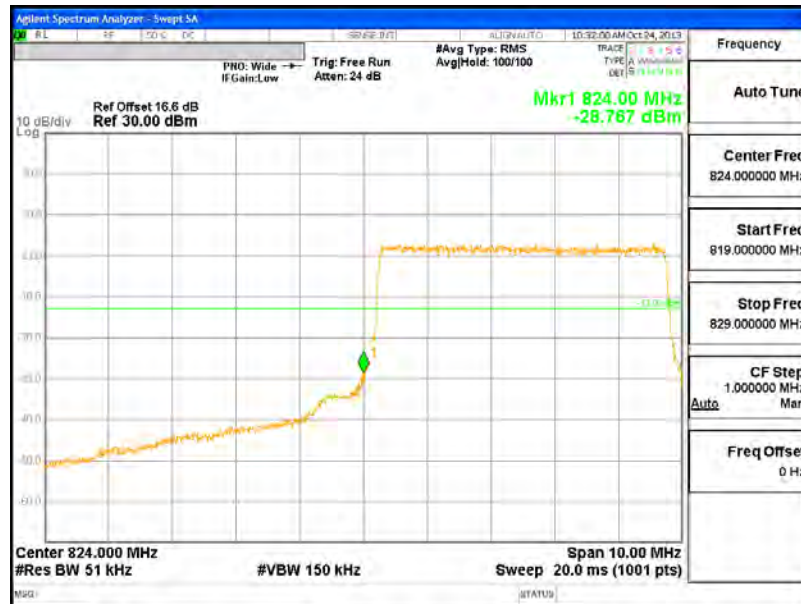
LOW CH, RB12-6



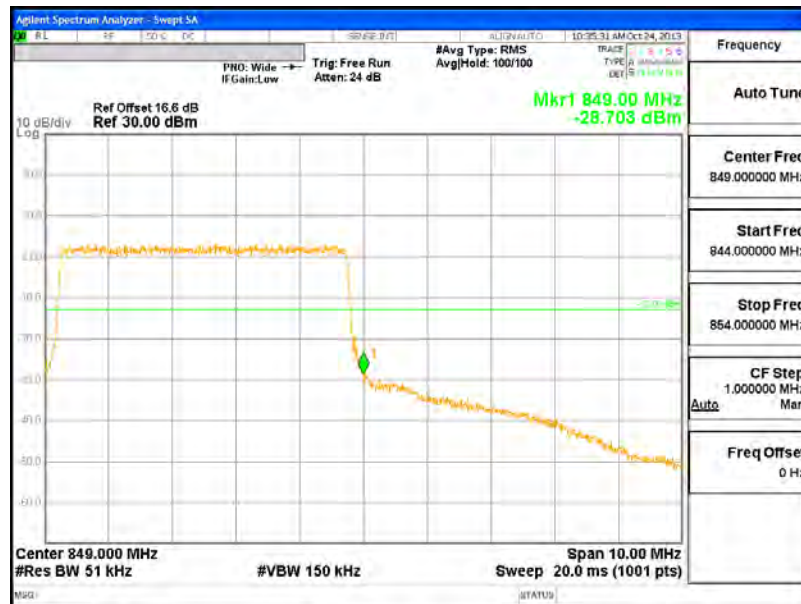
HIGH CH, RB12-6

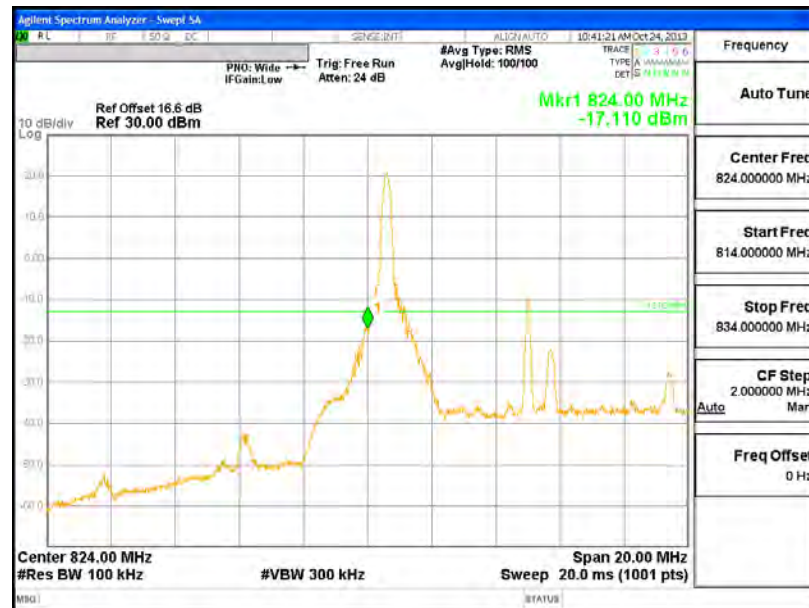
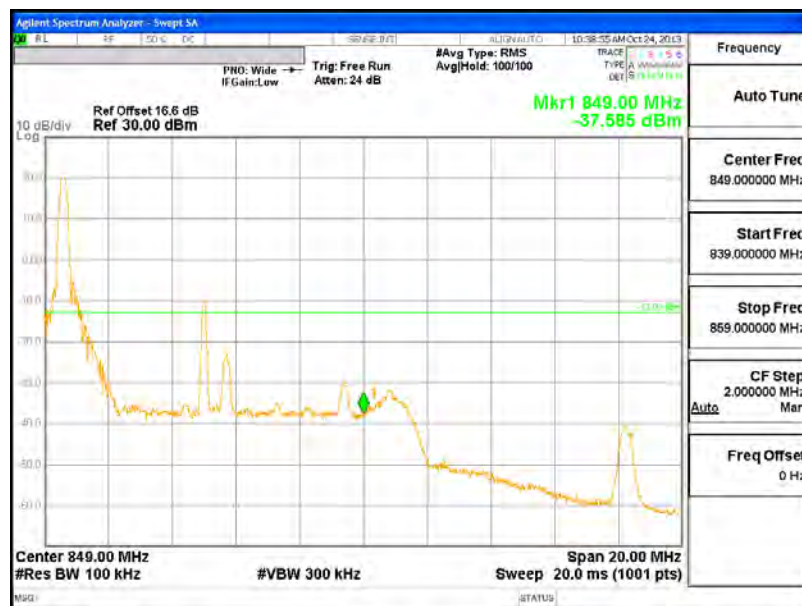


LOW CH, RB25-0

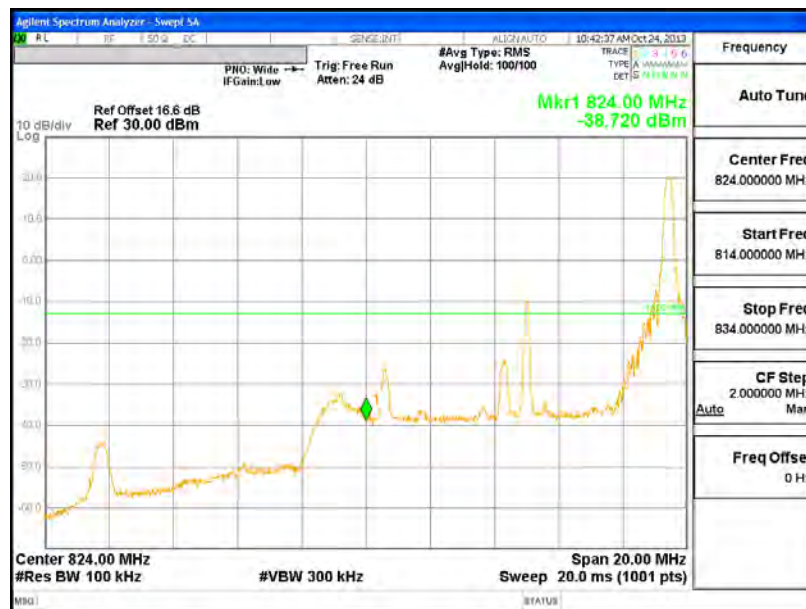


HIGH CH, RB25-0

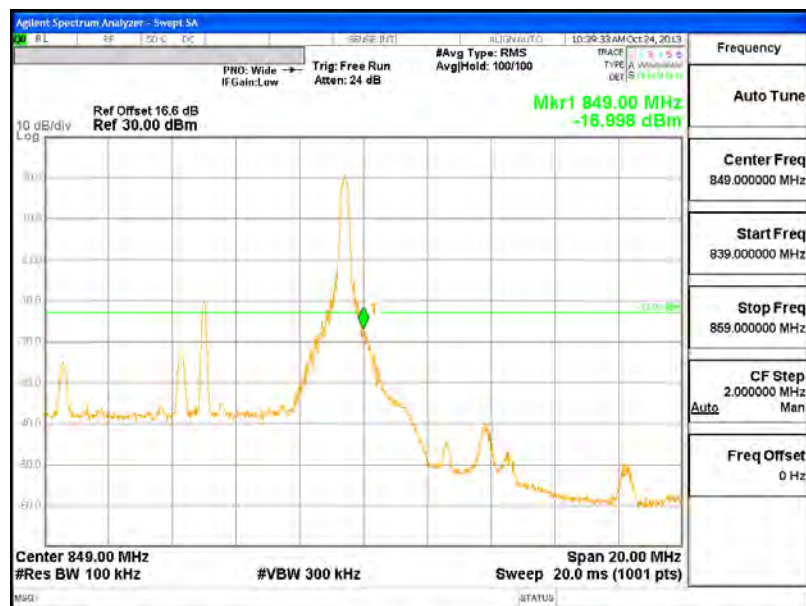


Band 5 (10MHz BANDWIDTH)**LTE QPSK****LOW CH, RB1_0****HIGH CH, RB1-0**

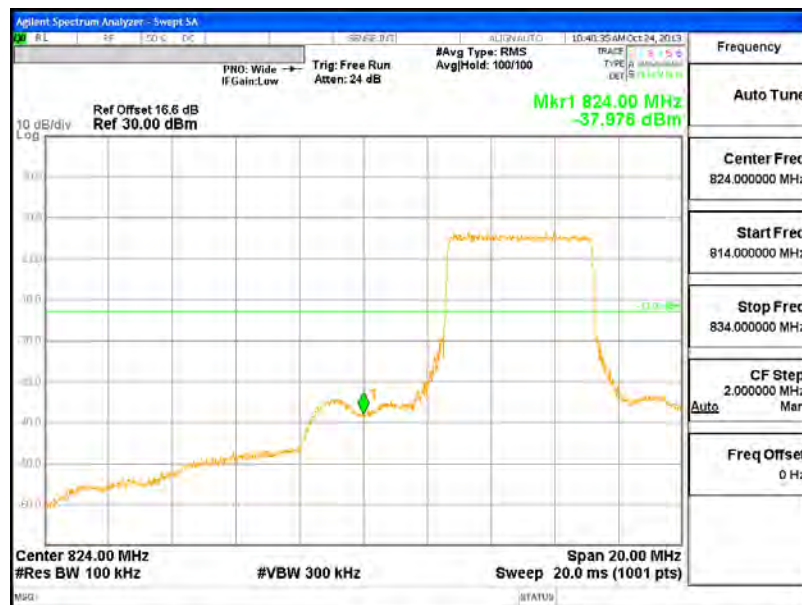
LOW CH, RB1-49



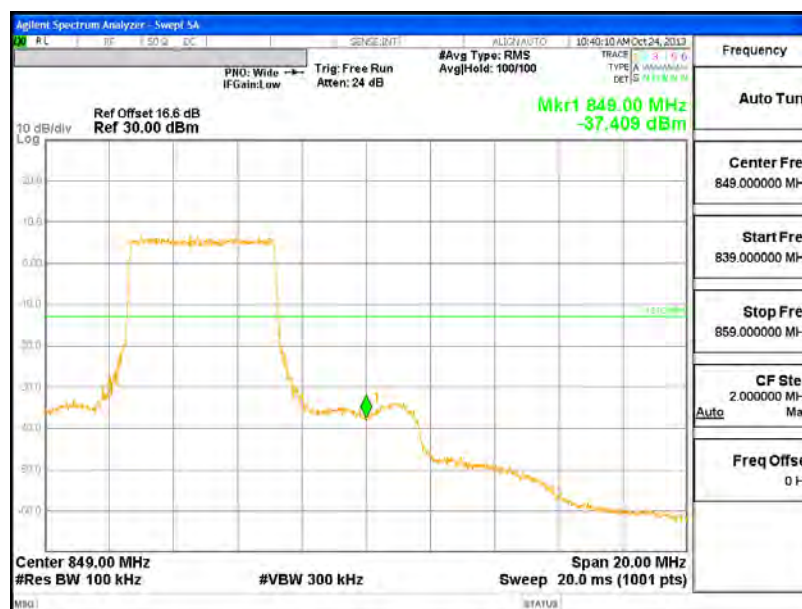
HIGH CH, RB1-49



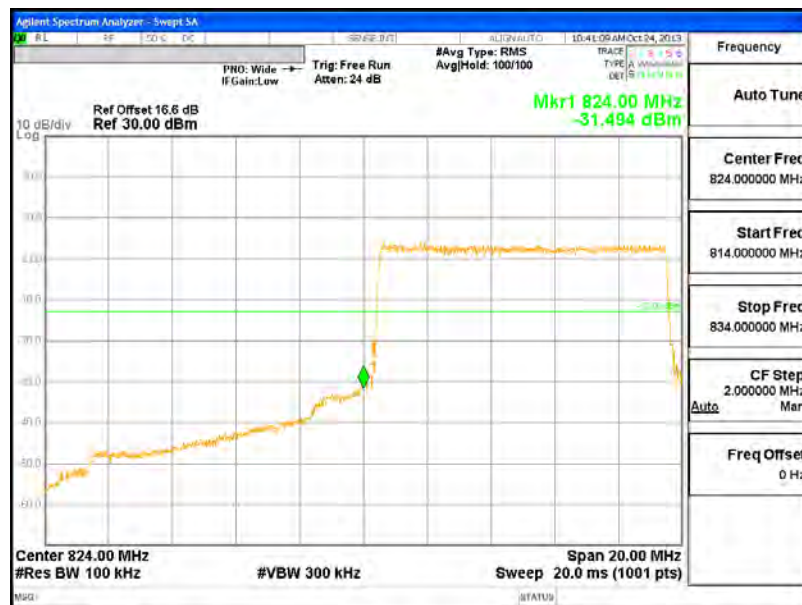
LOW CH, RB25-12



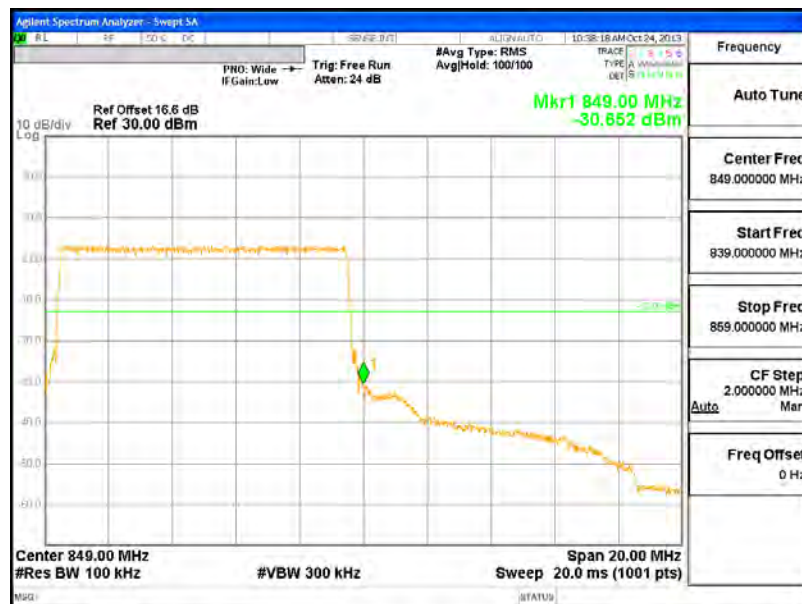
HIGH CH, RB25-12

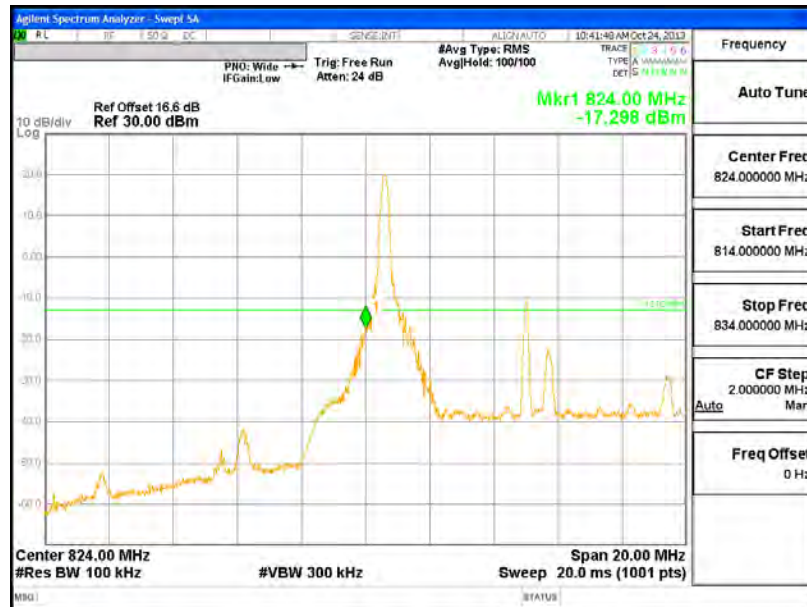
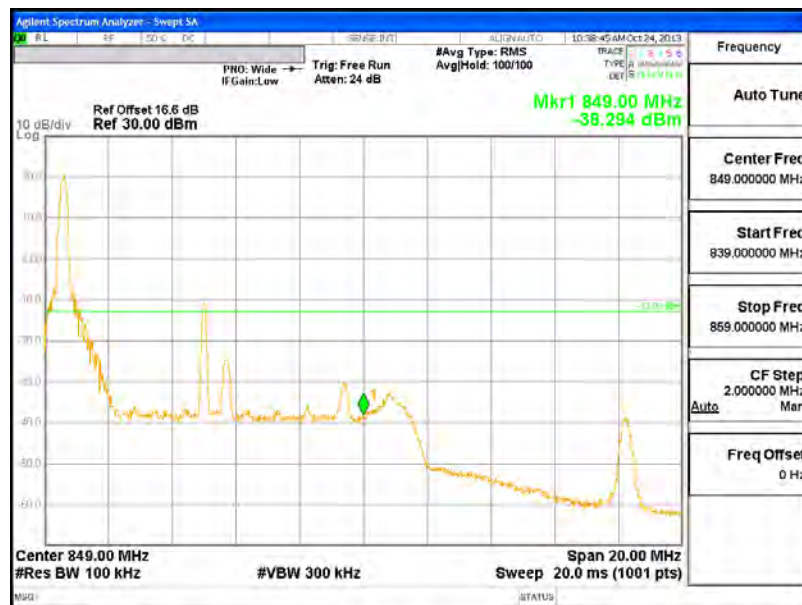


LOW CH, RB50-0

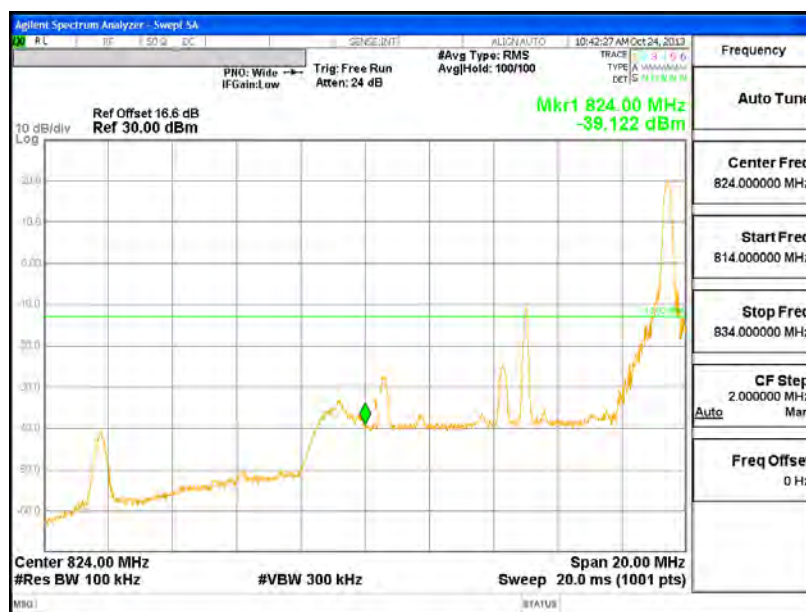


HIGH CH, RB50-0

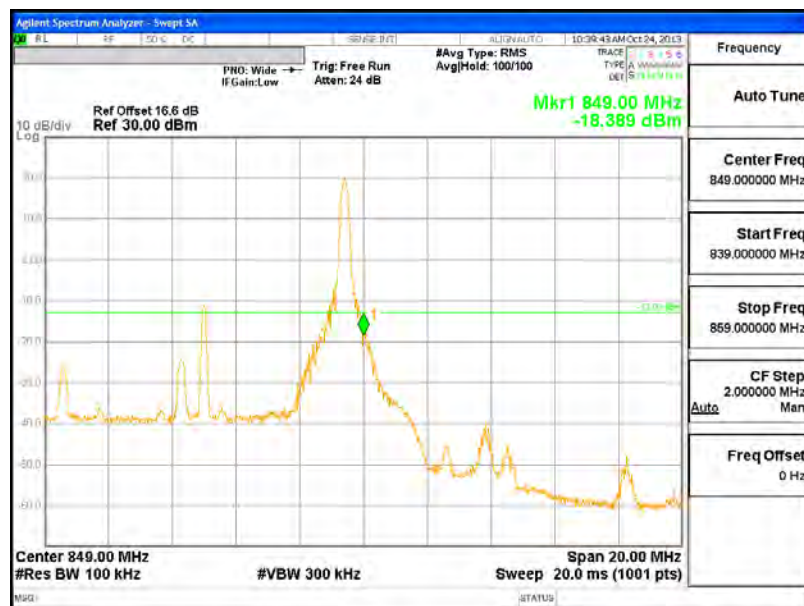


Band 5 (10MHz BANDWIDTH)**LTE 16QAM****LOW CH, RB1_0****HIGH CH, RB1-0**

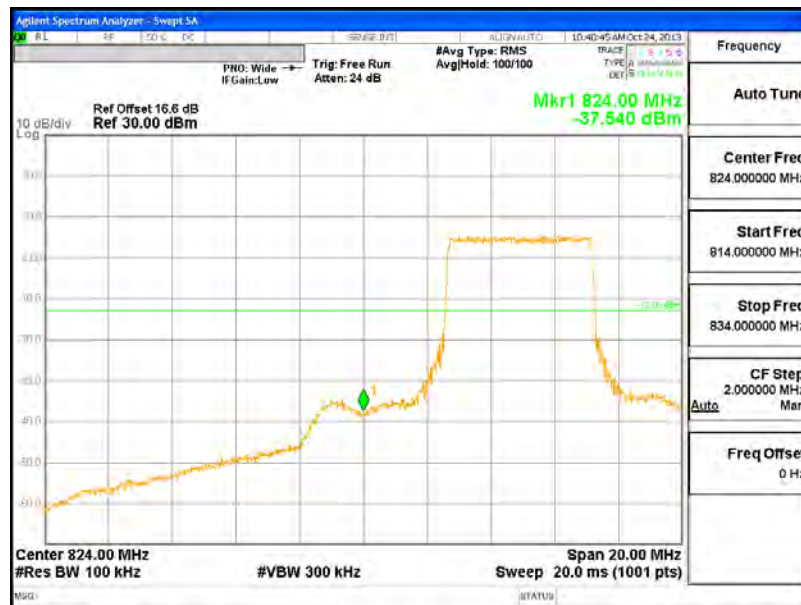
LOW CH, RB1-49



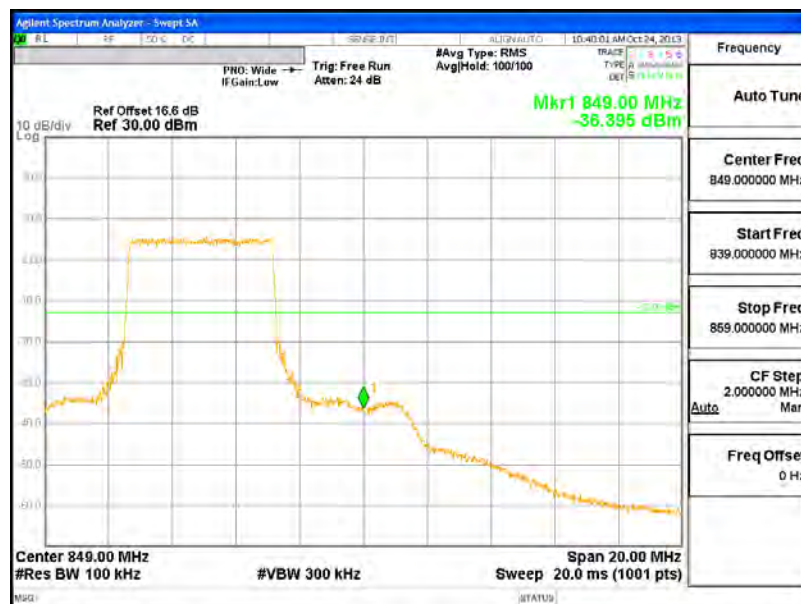
HIGH CH, RB1-49



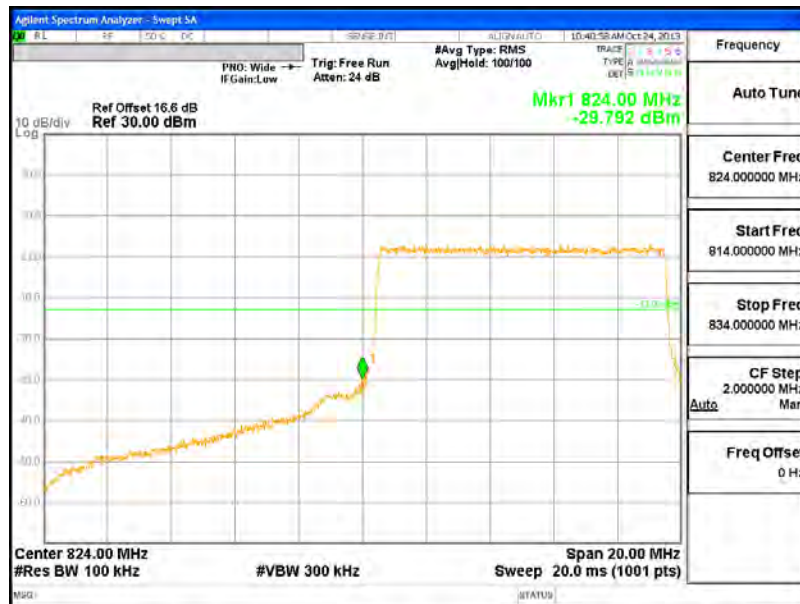
LOW CH, RB25-12



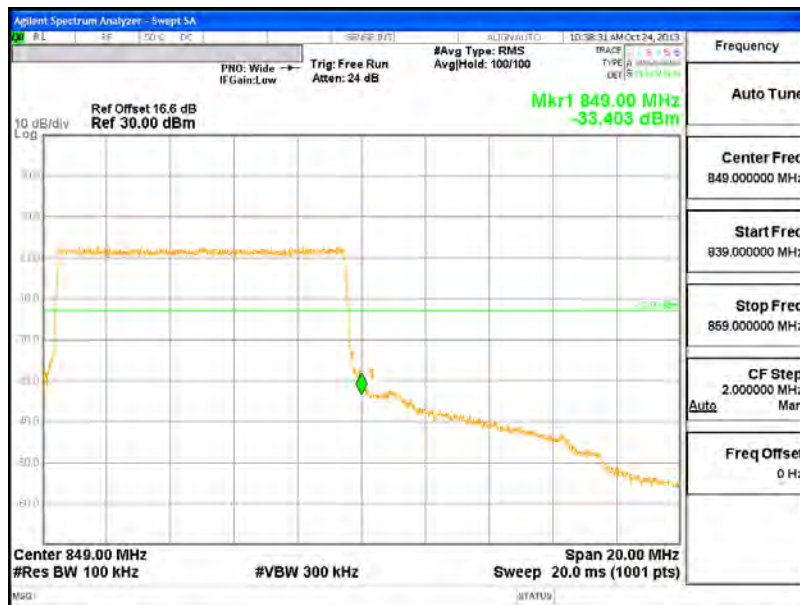
HIGH CH, RB25-12



LOW CH, RB50-0



HIGH CH, RB50-0

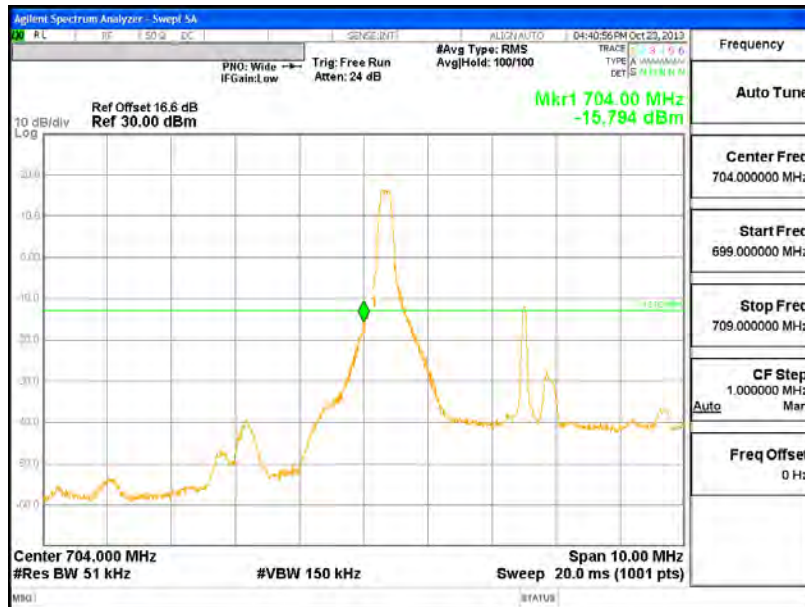


8.2.4. LTE BAND 17

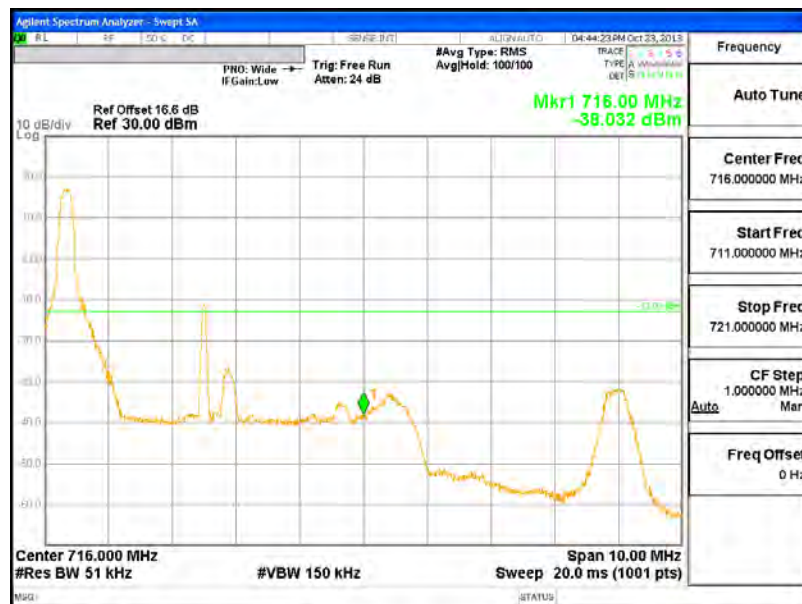
Band 17 (5MHz BANDWIDTH)

LTE QPSK

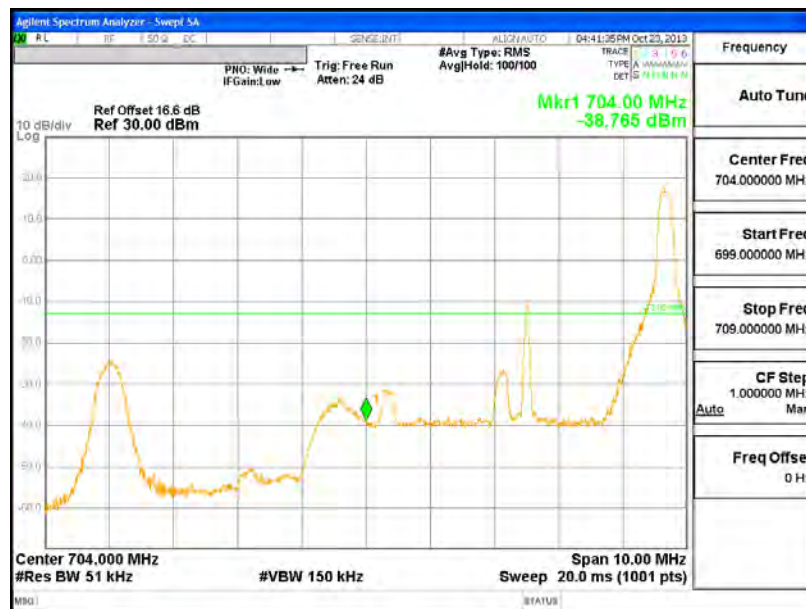
LOW CH, RB1_0



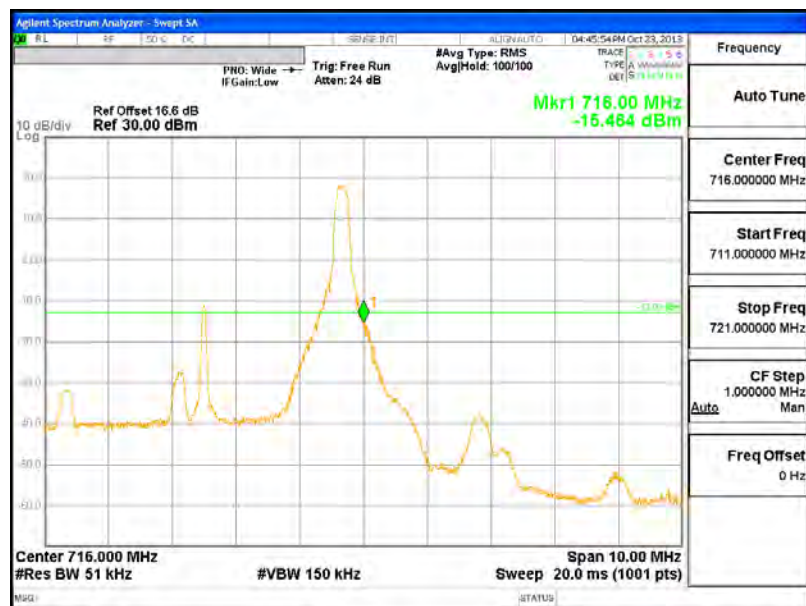
HIGH CH, RB1-0



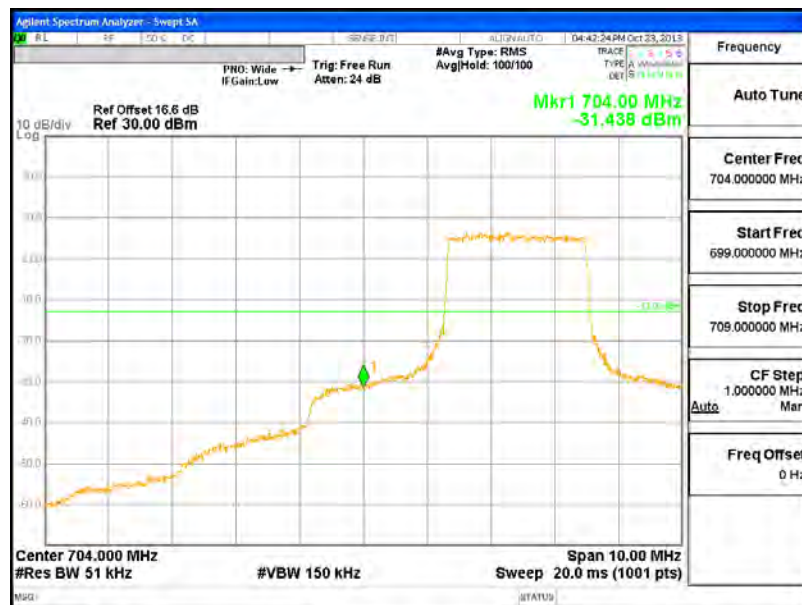
LOW CH, RB1-24



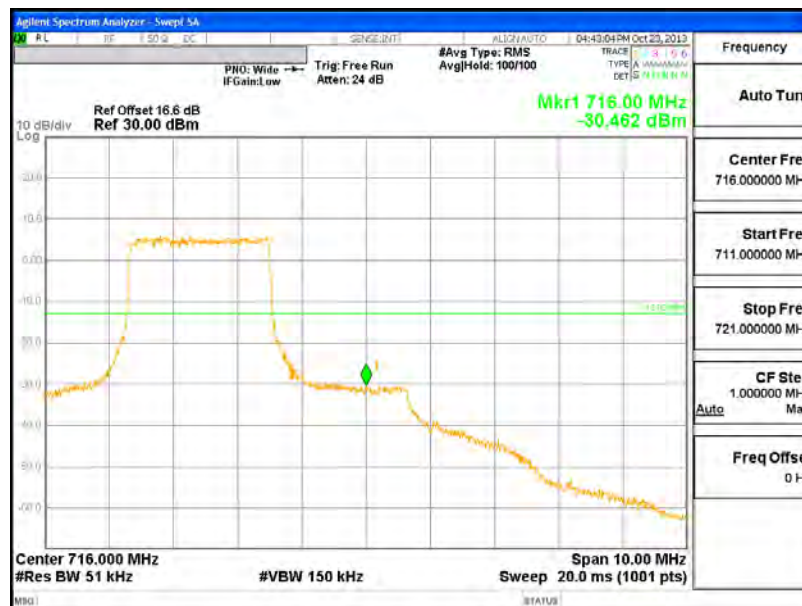
HIGH CH, RB1-24



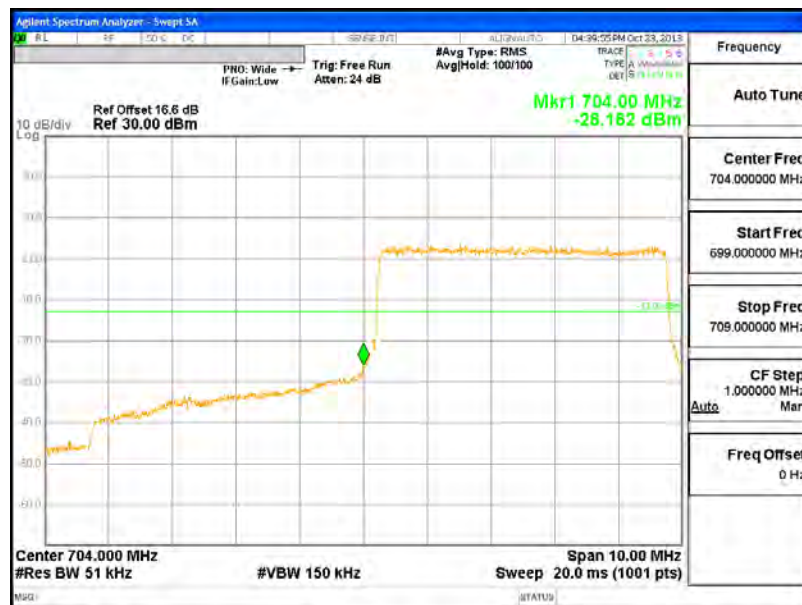
LOW CH, RB12-6



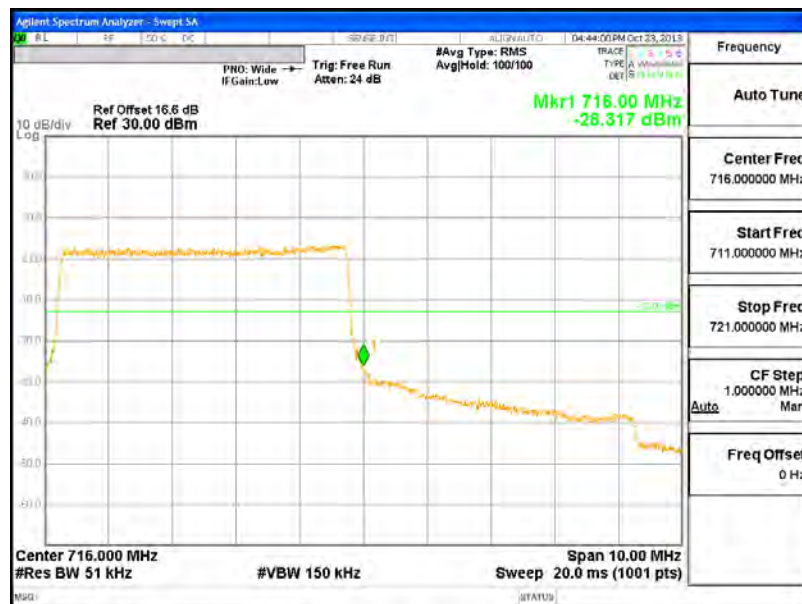
HIGH CH, RB12-6



LOW CH, RB25-0

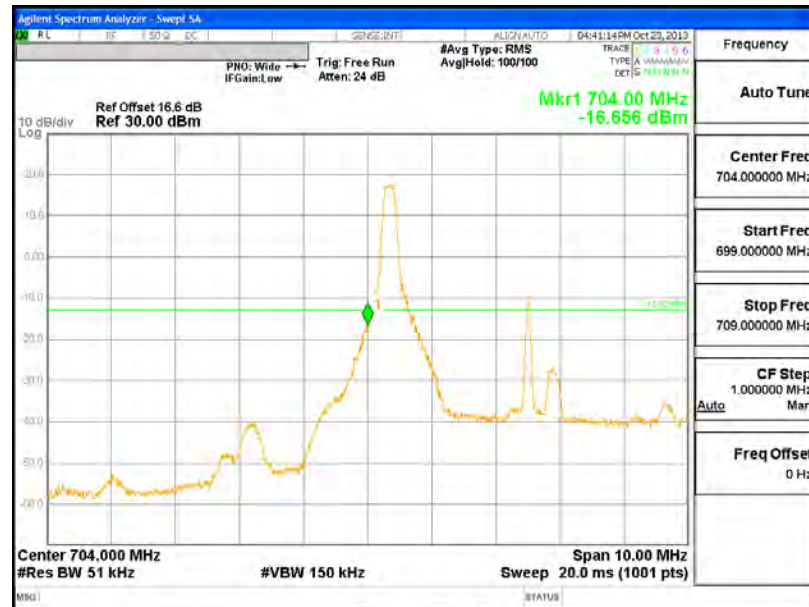


HIGH CH, RB25-0

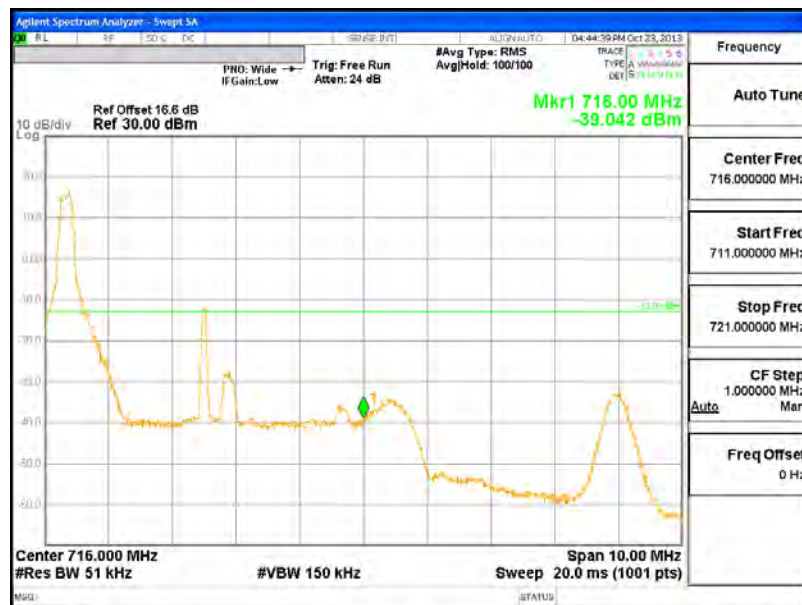


Band 17 (5MHz BANDWIDTH)**LTE 16QAM**

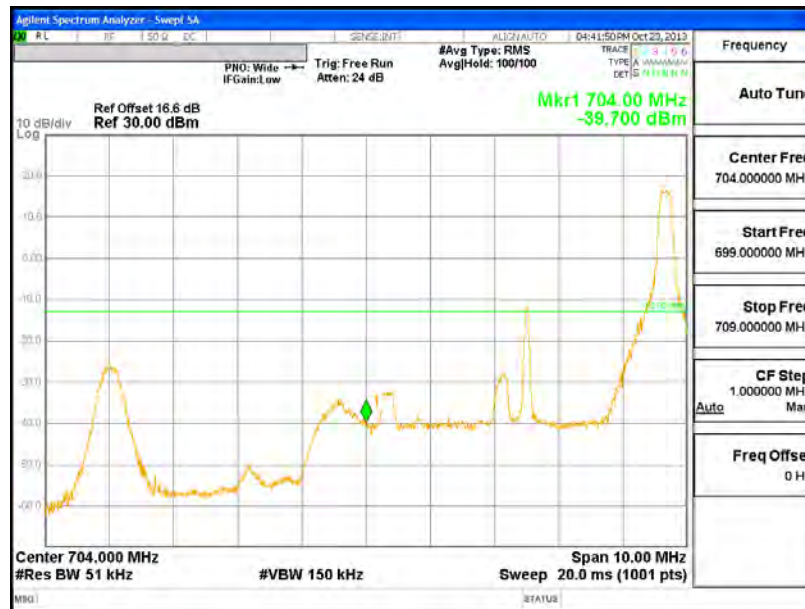
LOW CH, RB1_0



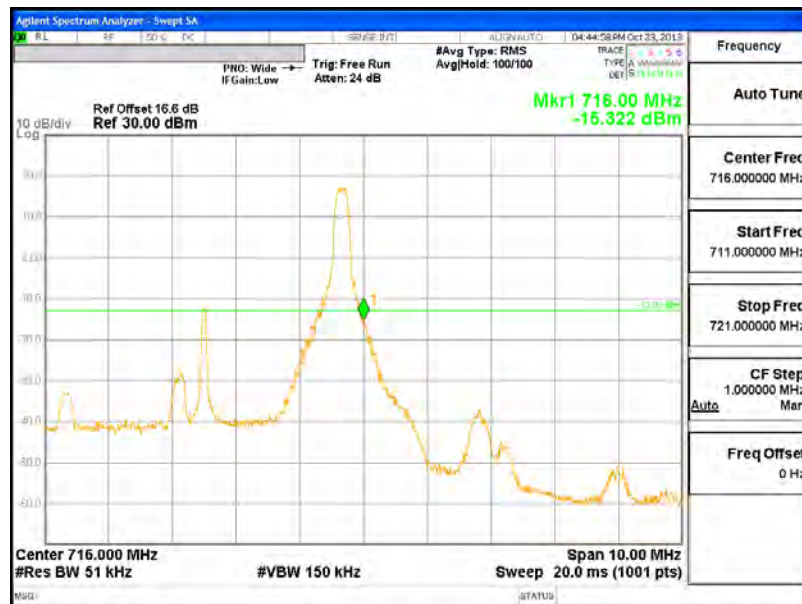
HIGH CH, RB1-0



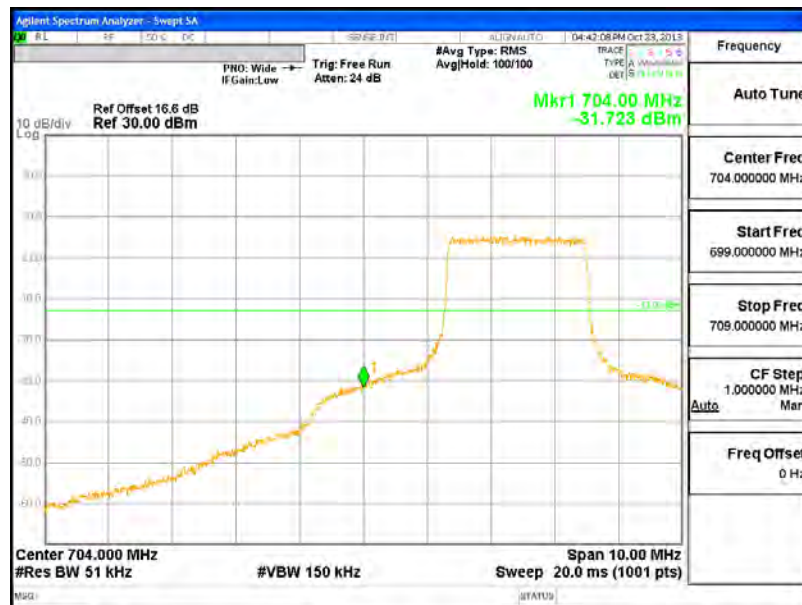
LOW CH, RB1-24



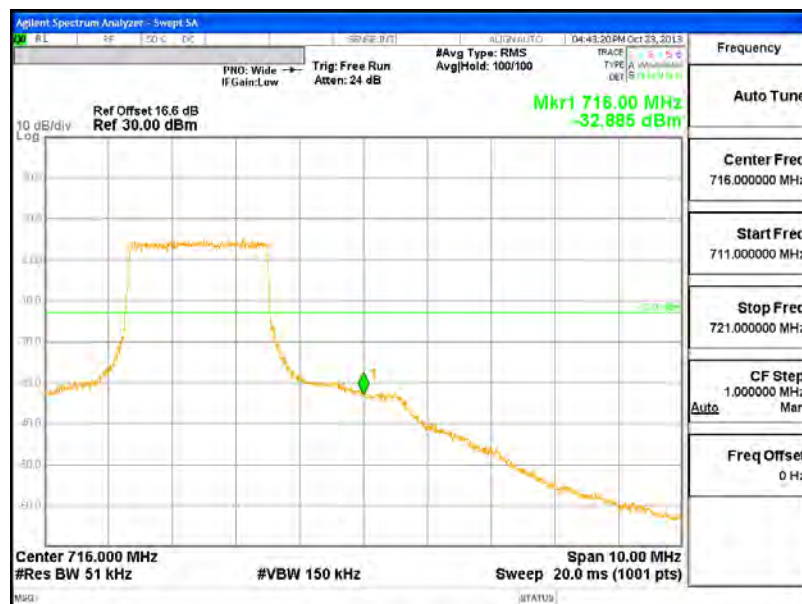
HIGH CH, RB1-24



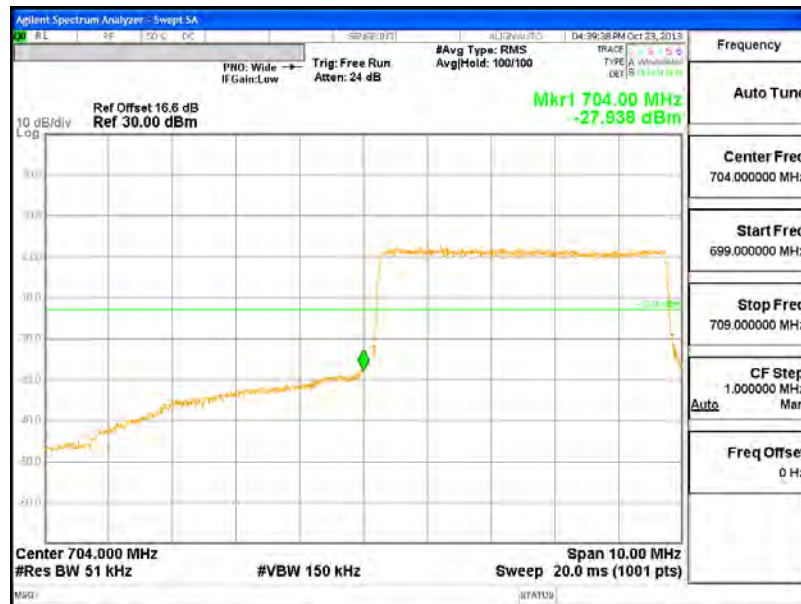
LOW CH, RB12-6



HIGH CH, RB12-6

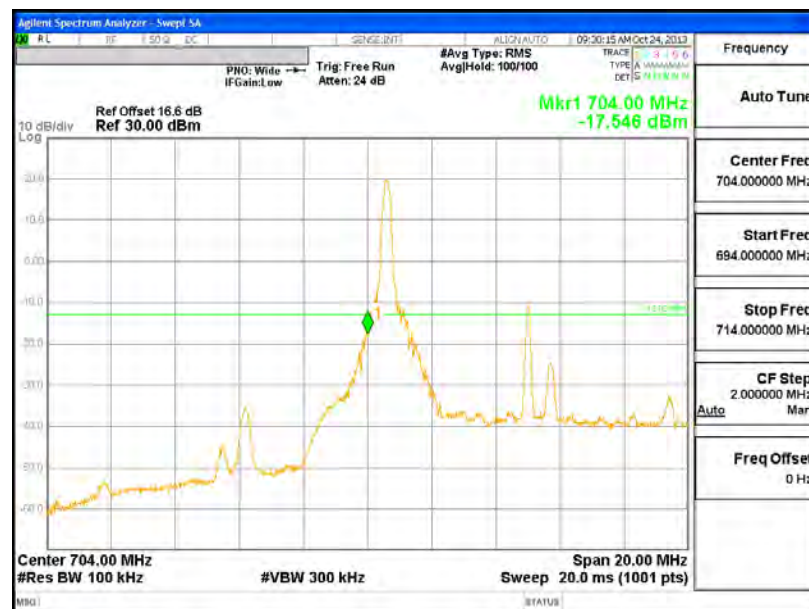
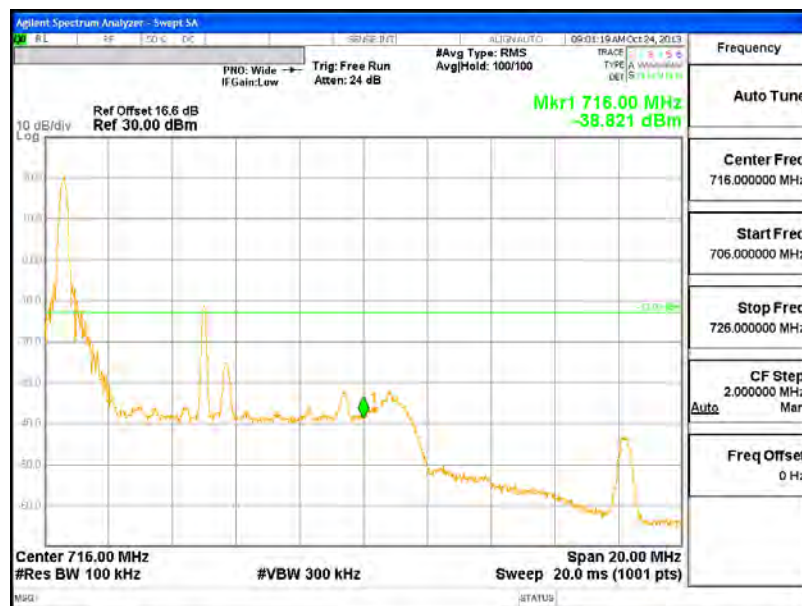


LOW CH, RB25-0

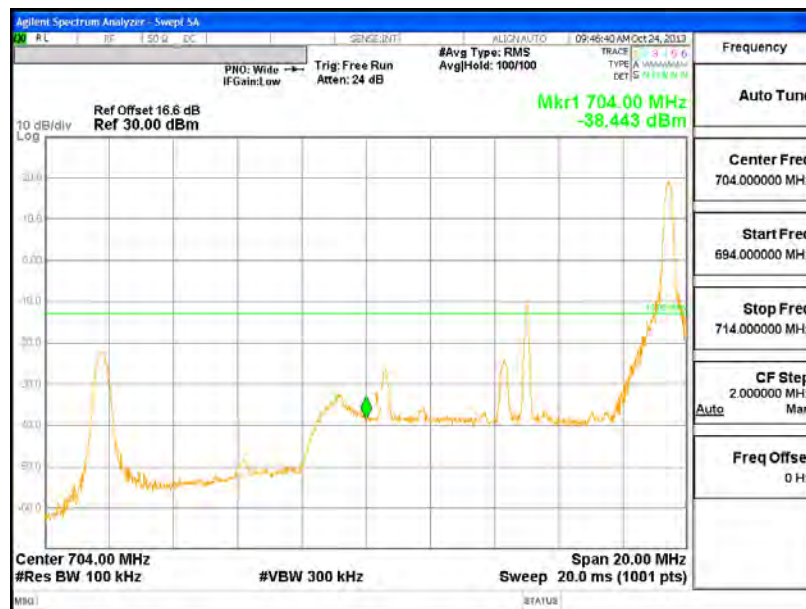


HIGH CH, RB25-0

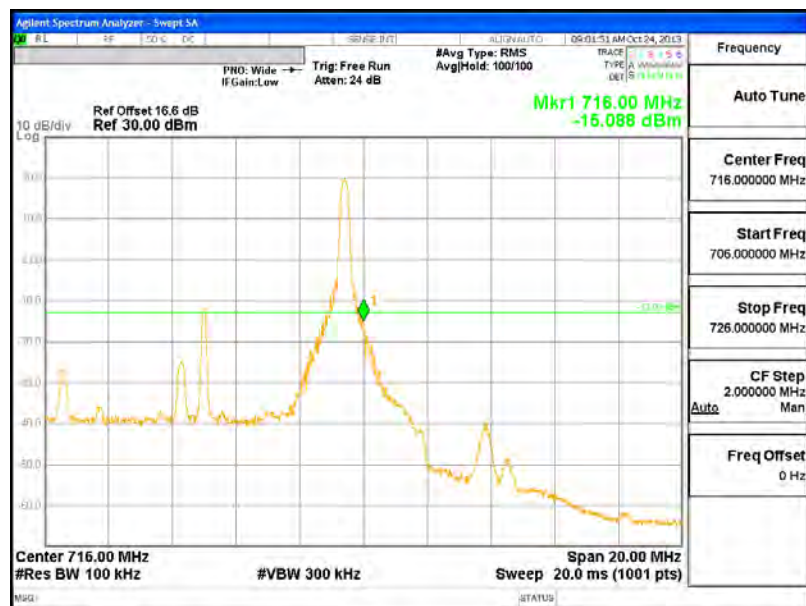


Band 17 (10MHz BANDWIDTH)**LTE QPSK****LOW CH, RB1_0****HIGH CH, RB1-0**

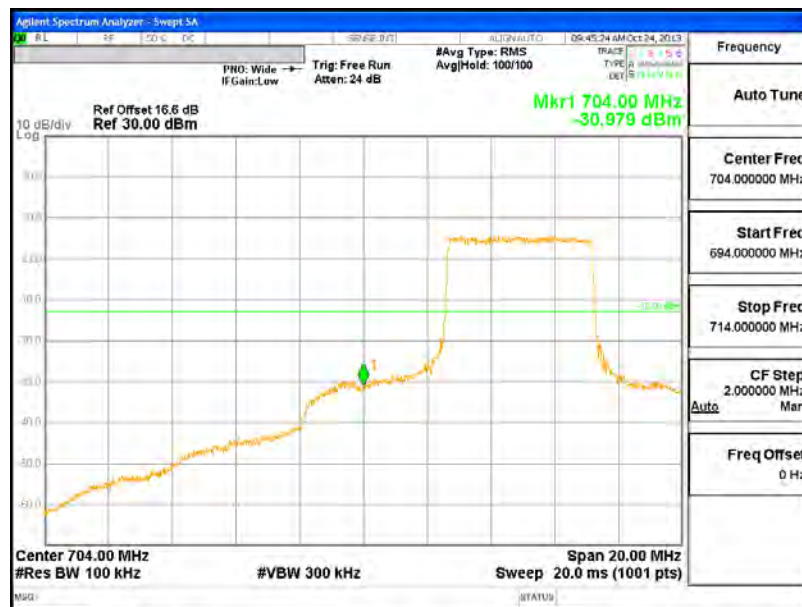
LOW CH, RB1-49



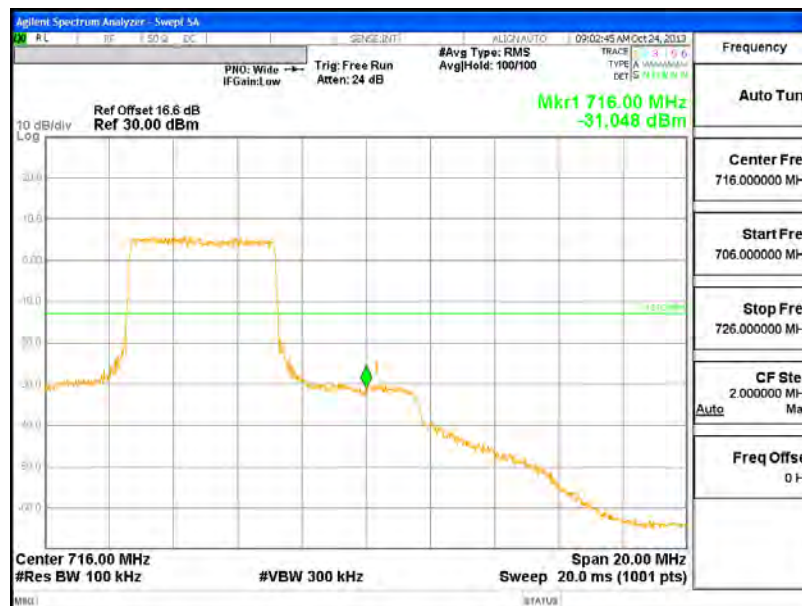
HIGH CH, RB1-49



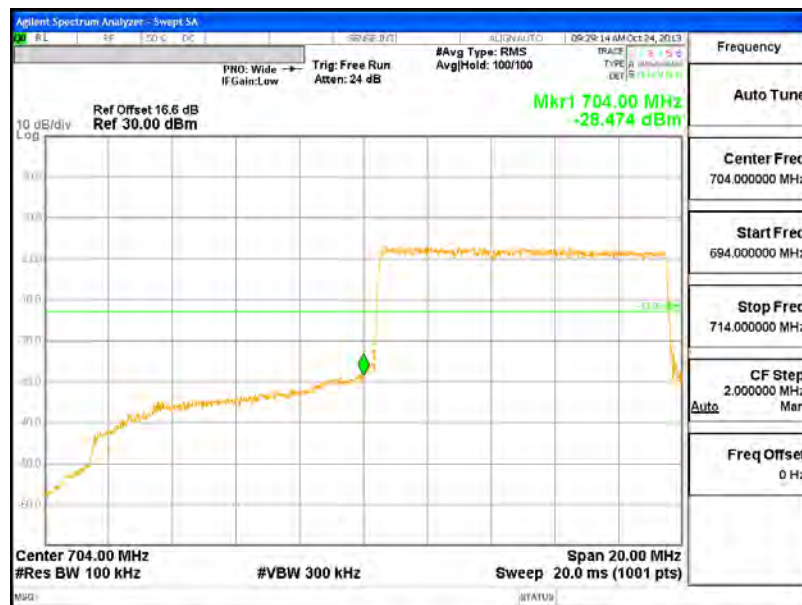
LOW CH, RB25-12



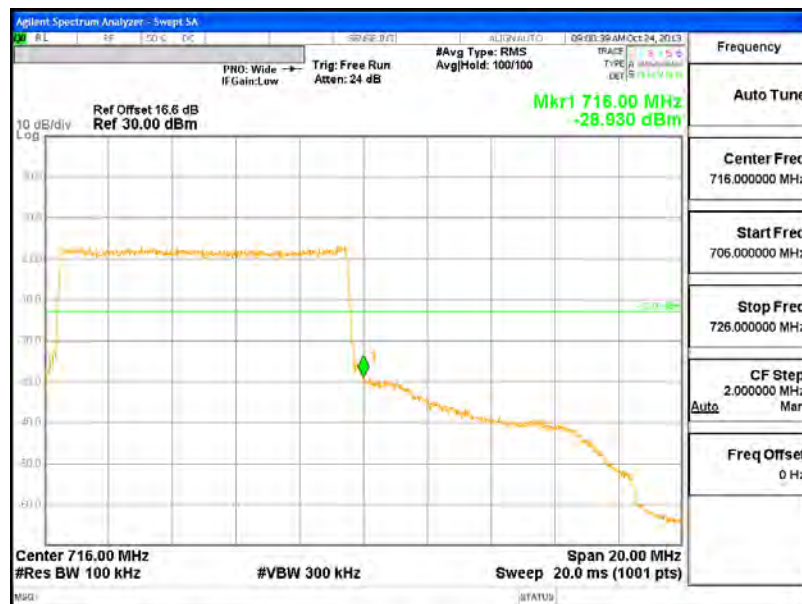
HIGH CH, RB25-12



LOW CH, RB50-0

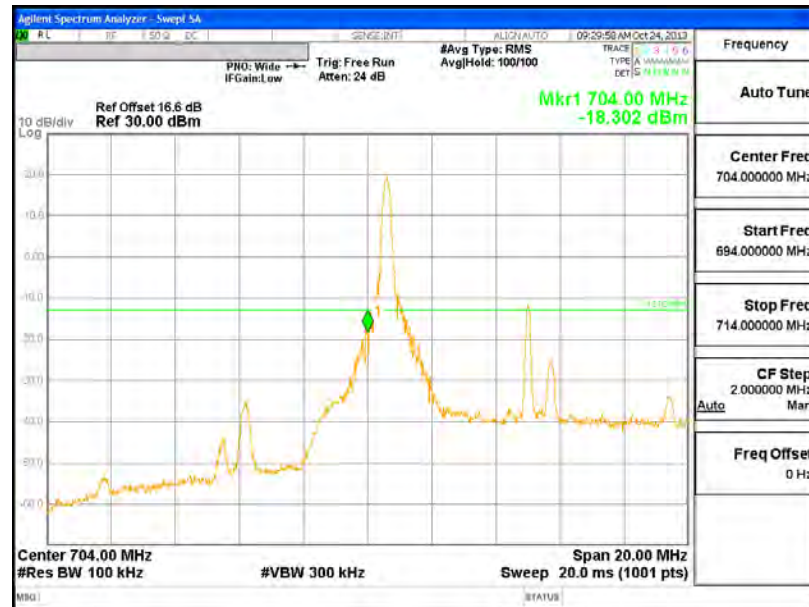


HIGH CH, RB50-0

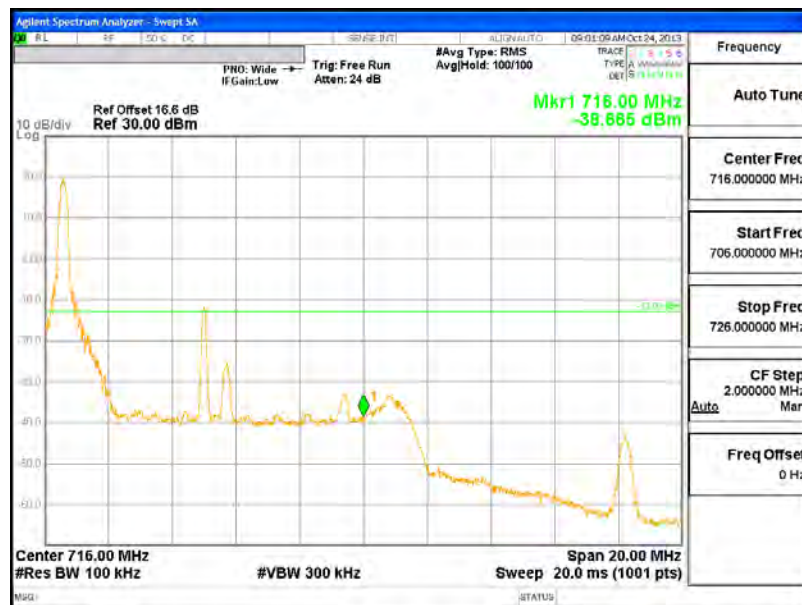


Band 17 (10MHz BANDWIDTH)**LTE 16QAM**

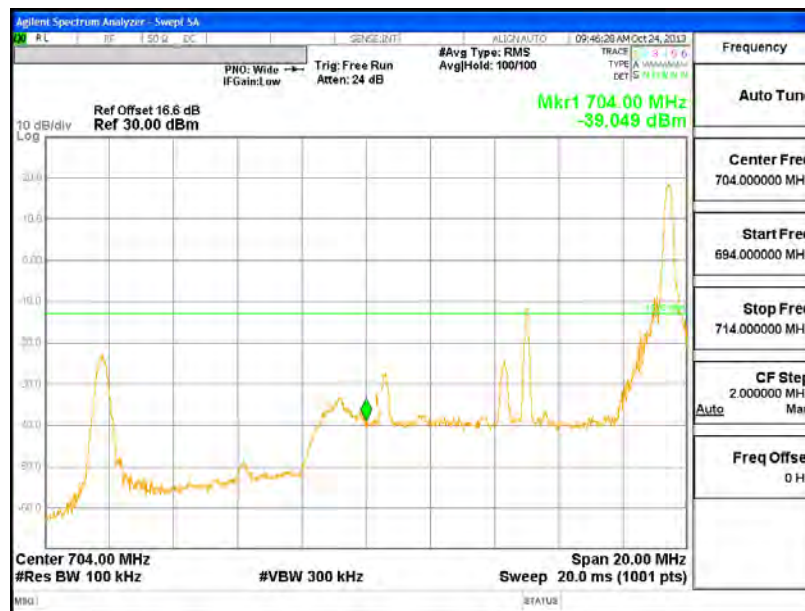
LOW CH, RB1_0



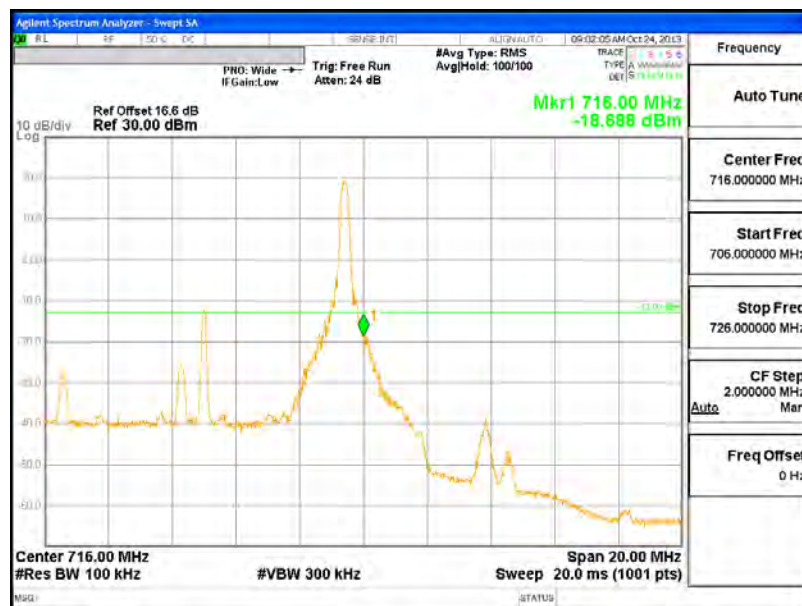
HIGH CH, RB1-0



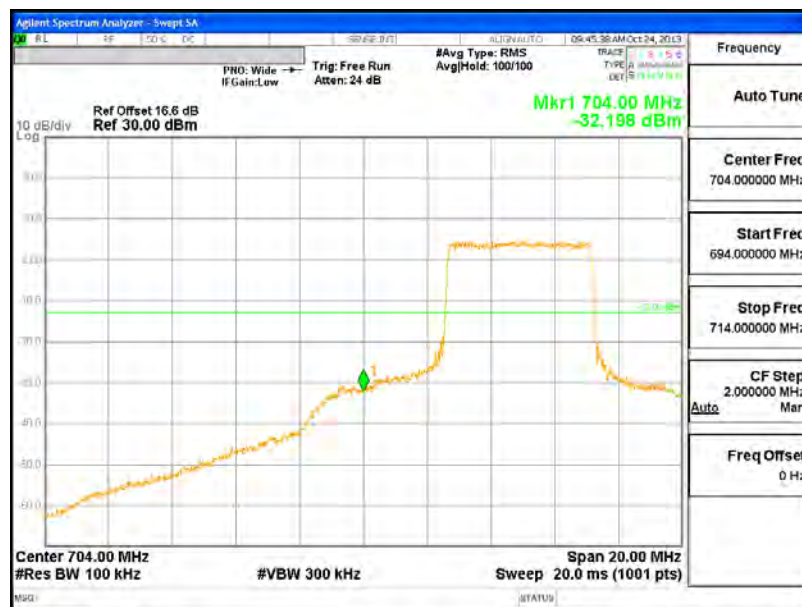
LOW CH, RB1-49



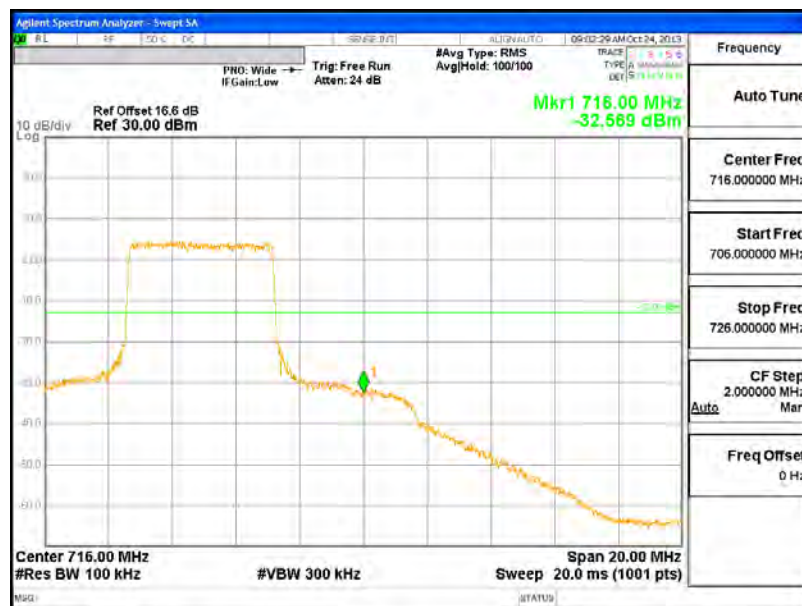
HIGH CH, RB1-49



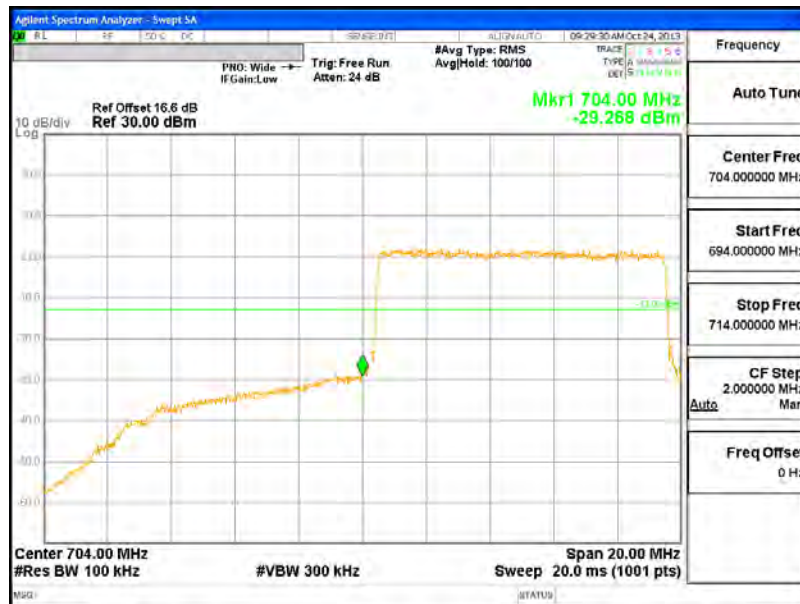
LOW CH, RB25-12



HIGH CH, RB25-12



LOW CH, RB50-0



HIGH CH, RB50-0



8.3. OUT OF BAND EMISSIONS

RULE PART(S)

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

LIMITS

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

TEST PROCEDURE

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

For each out of band emissions measurement:

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

MODES TESTED

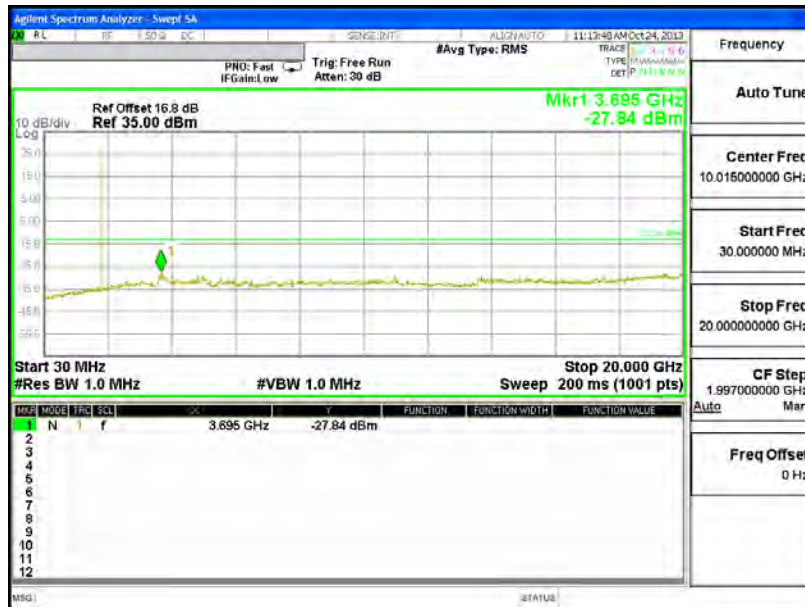
- Band 2
- Band 4
- Band 5
- Band 17

8.3.1. LTE BAND 2

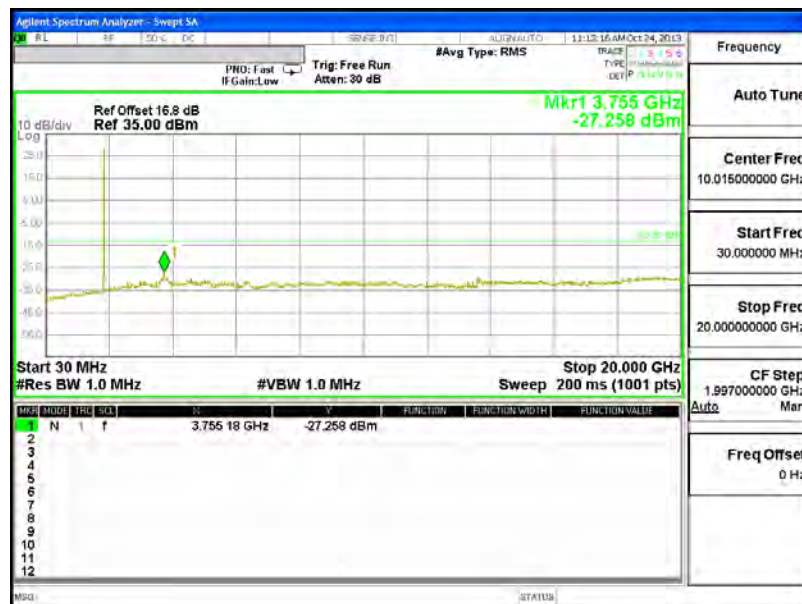
Band 2 (1.4 MHz BANDWIDTH)

LTE QPSK

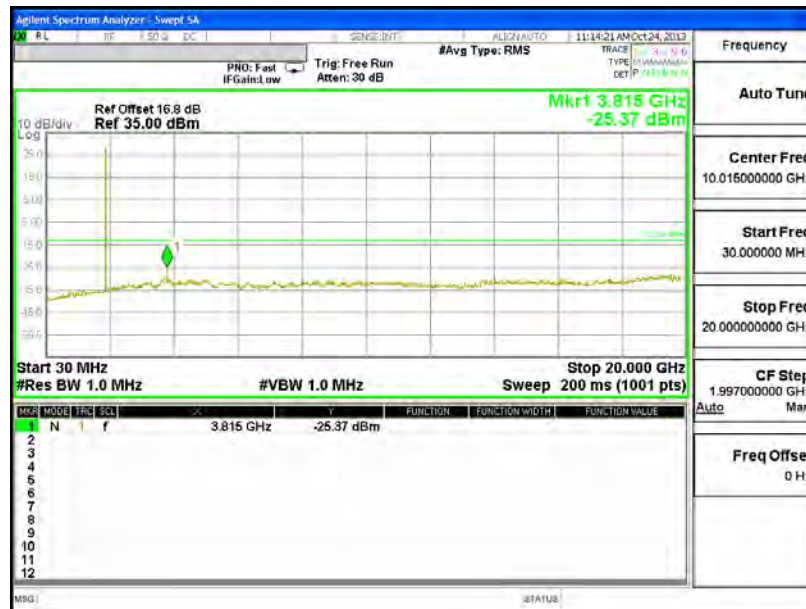
LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

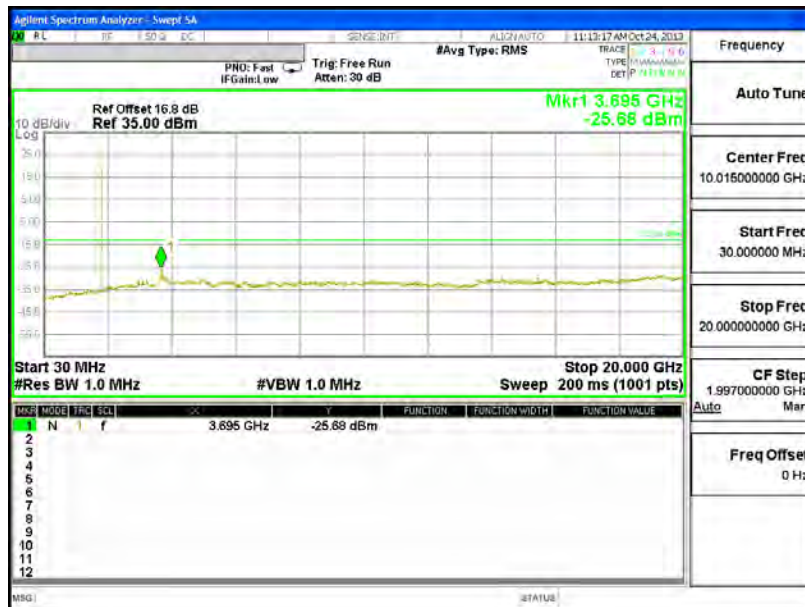


HIGH, RB1-0, 30 TO 20000 MHz

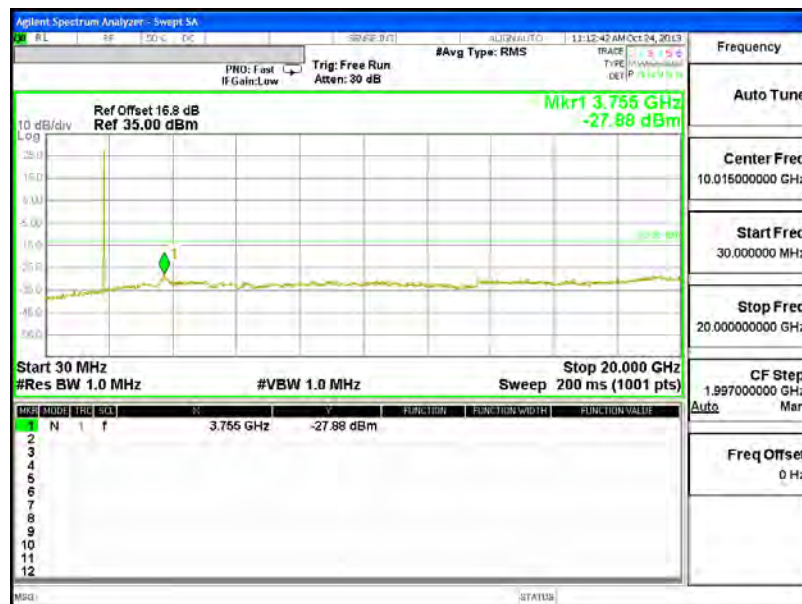


Band 2 (1.4 MHz BANDWIDTH)**LTE 16QAM**

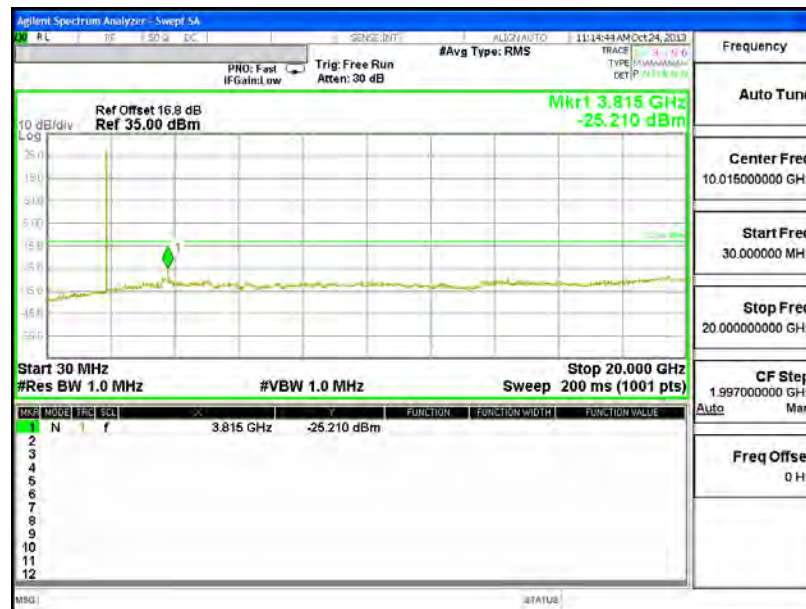
LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

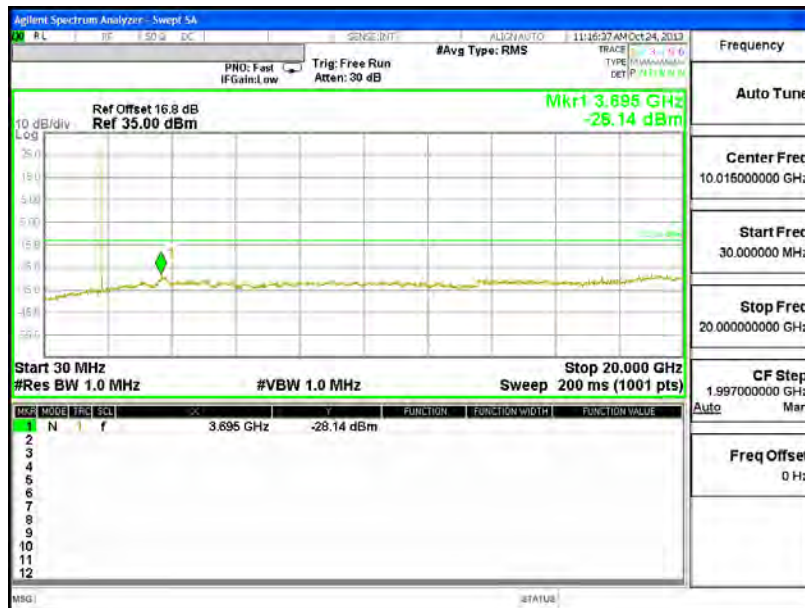


HIGH, RB1-0, 30 TO 20000 MHz

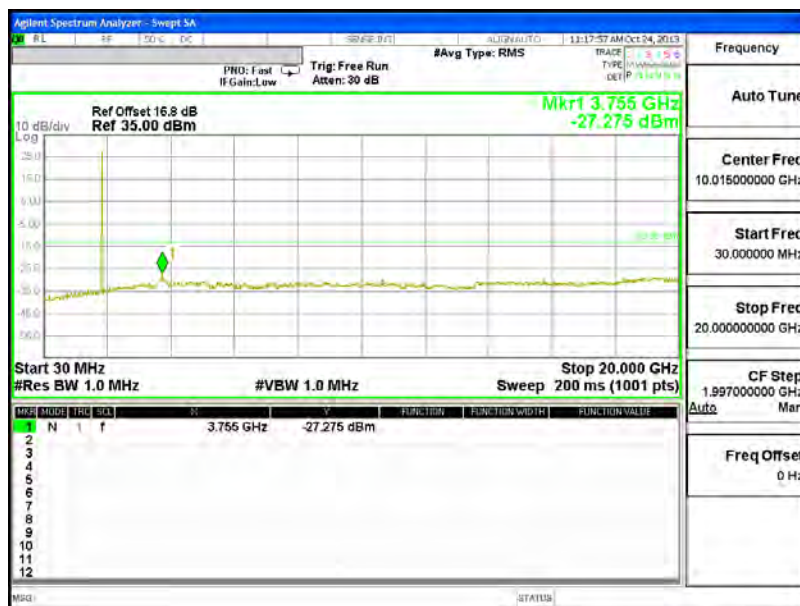


Band 2 (3MHz BANDWIDTH)**LTE QPSK**

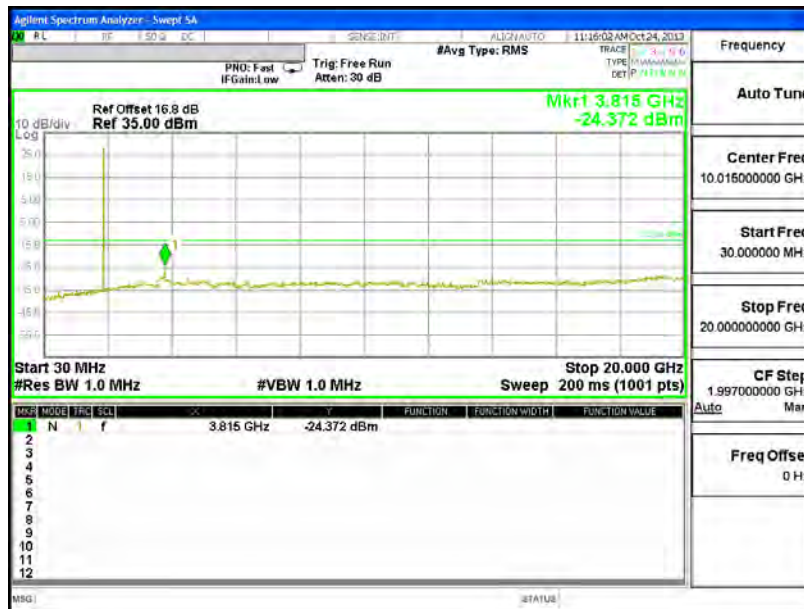
LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

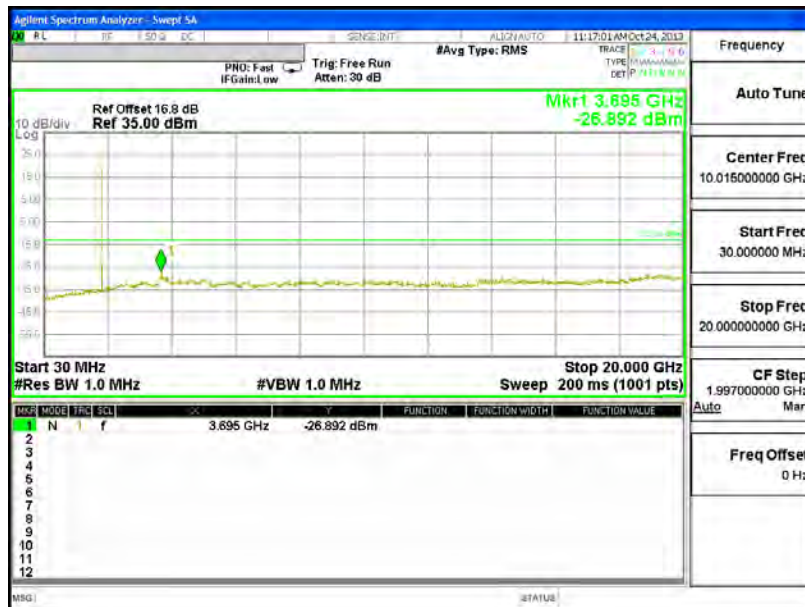


HIGH, RB1-0, 30 TO 20000 MHz

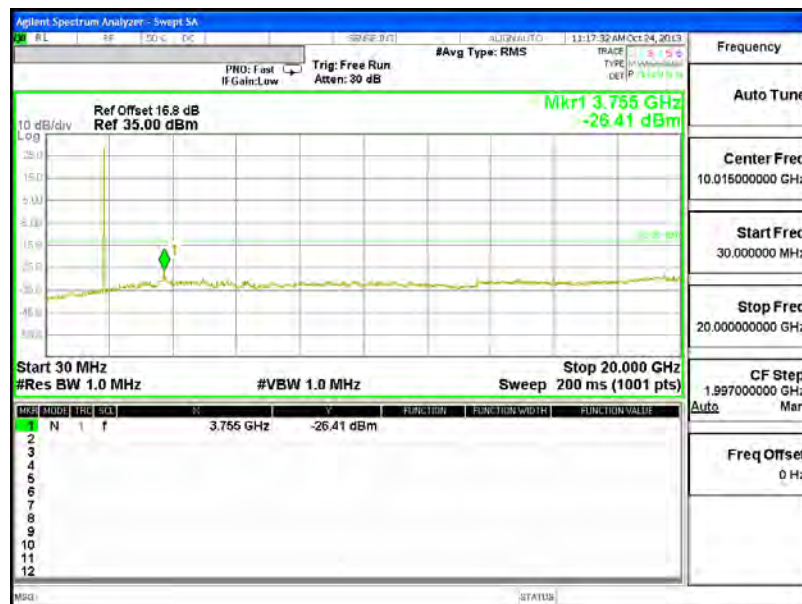


Band 2 (3MHz BANDWIDTH)**LTE 16QAM**

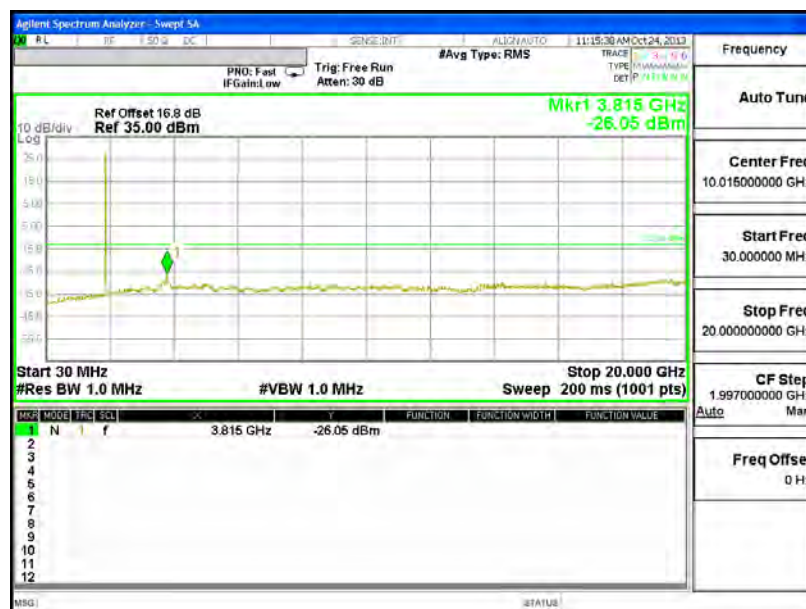
LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

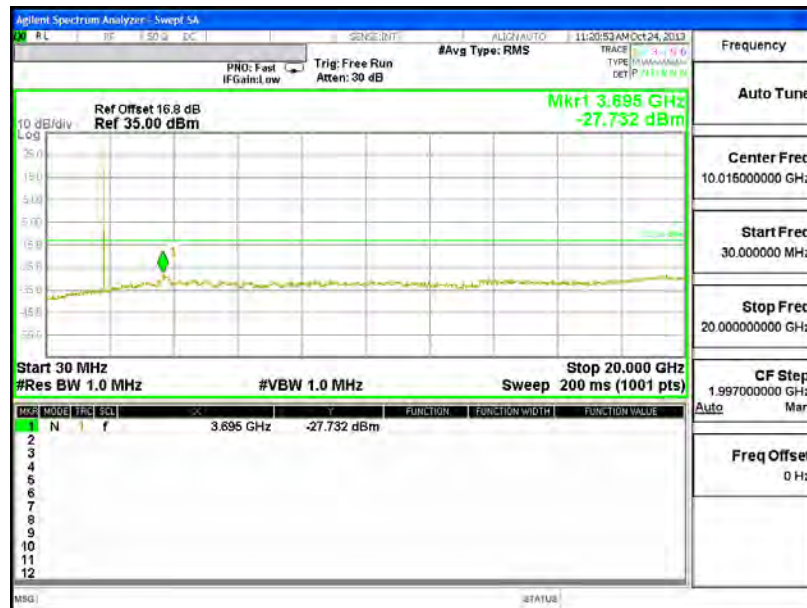


HIGH, RB1-0, 30 TO 20000 MHz

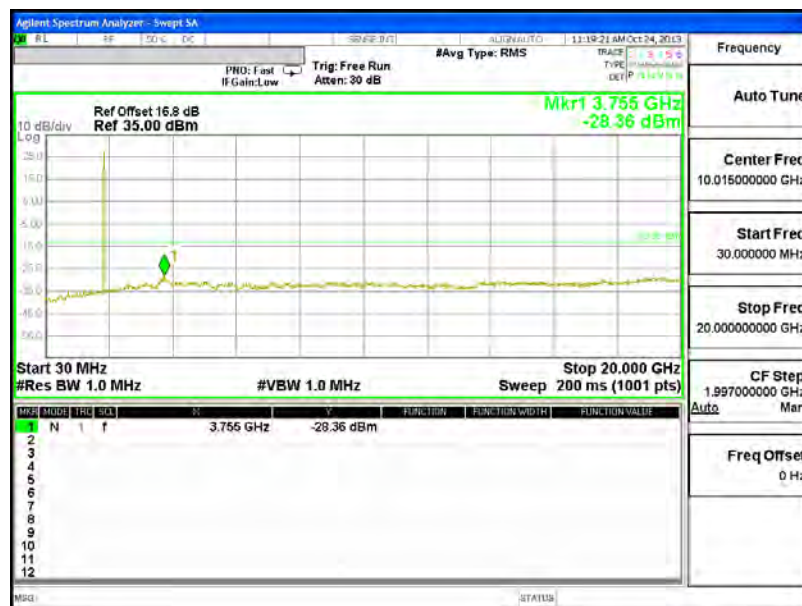


Band 2 (5MHz BANDWIDTH)**LTE QPSK**

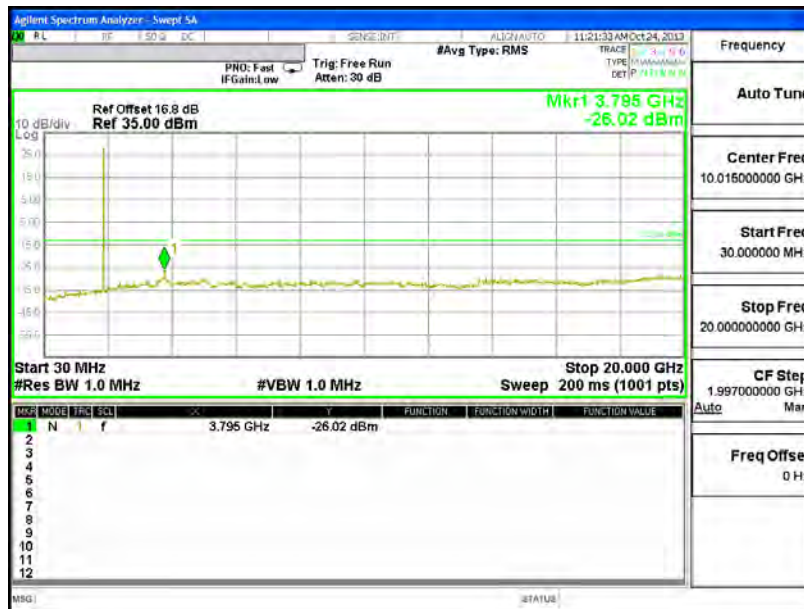
LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

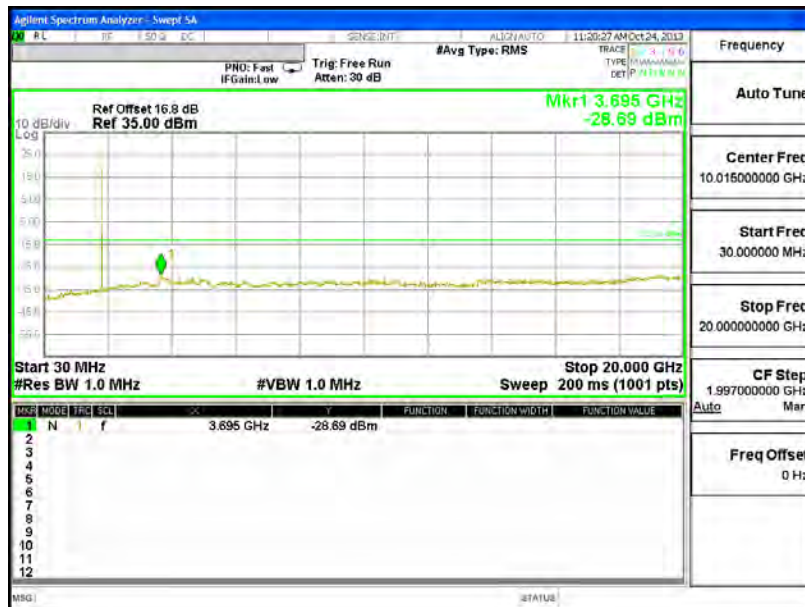


HIGH, RB1-0, 30 TO 20000 MHz

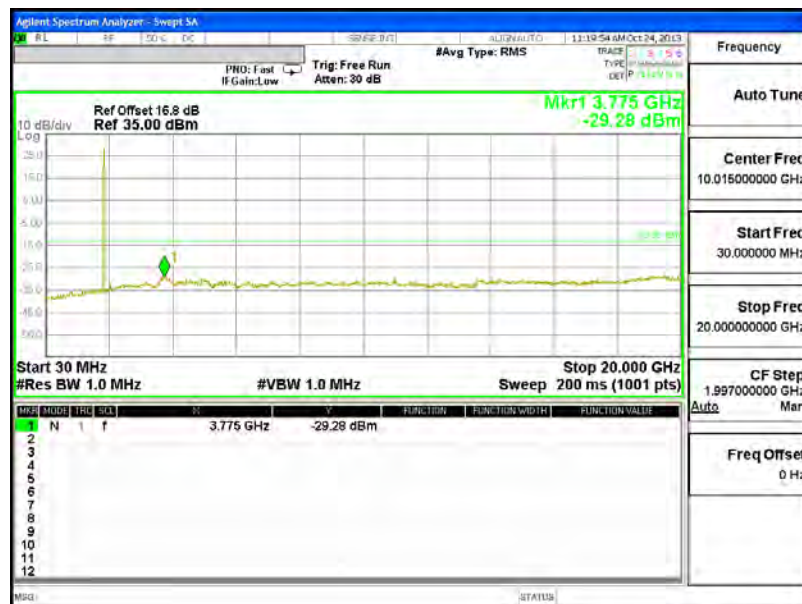


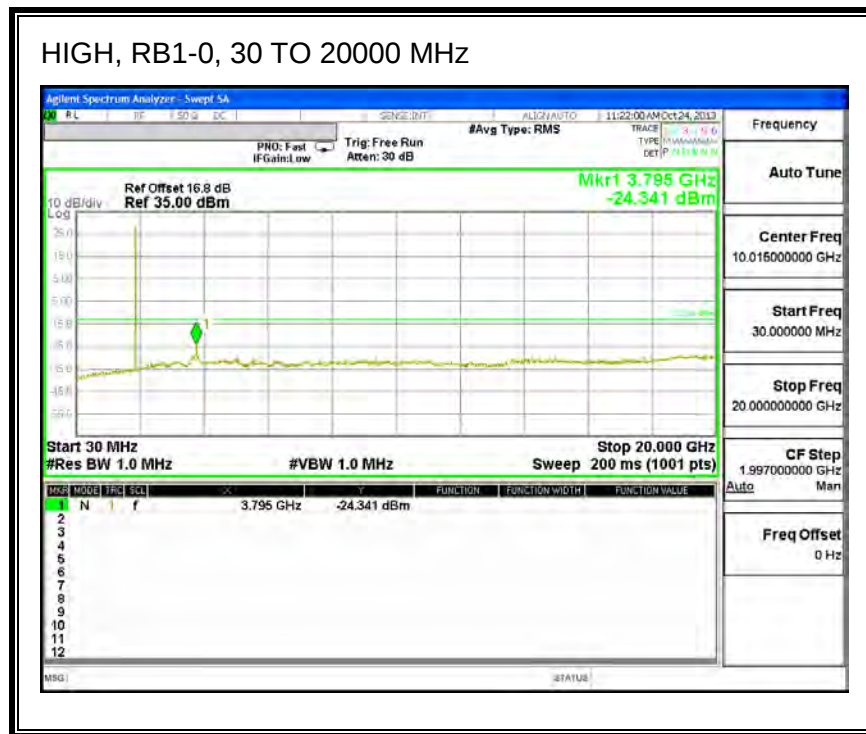
Band 2 (5MHz BANDWIDTH)**LTE 16QAM**

LOW, RB1-0, 30 TO 20000 MHz



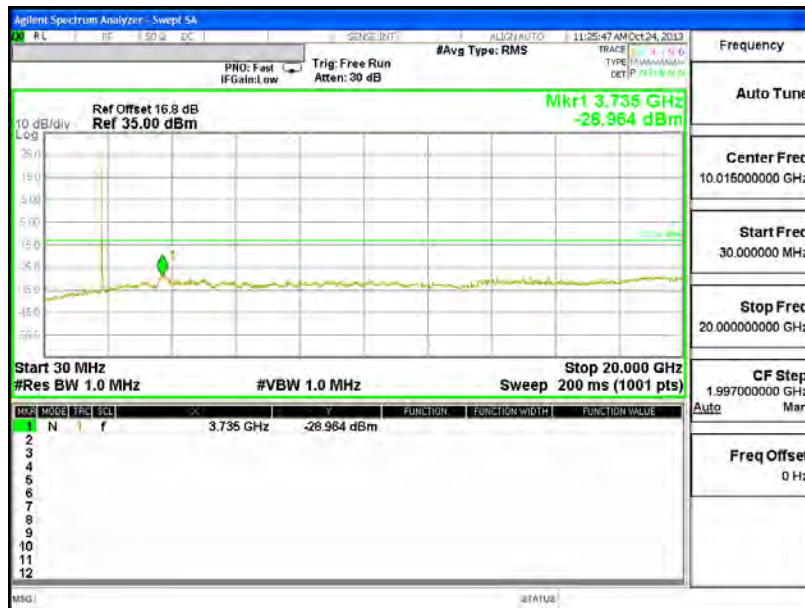
MID, RB1-0, 30 TO 20000 MHz



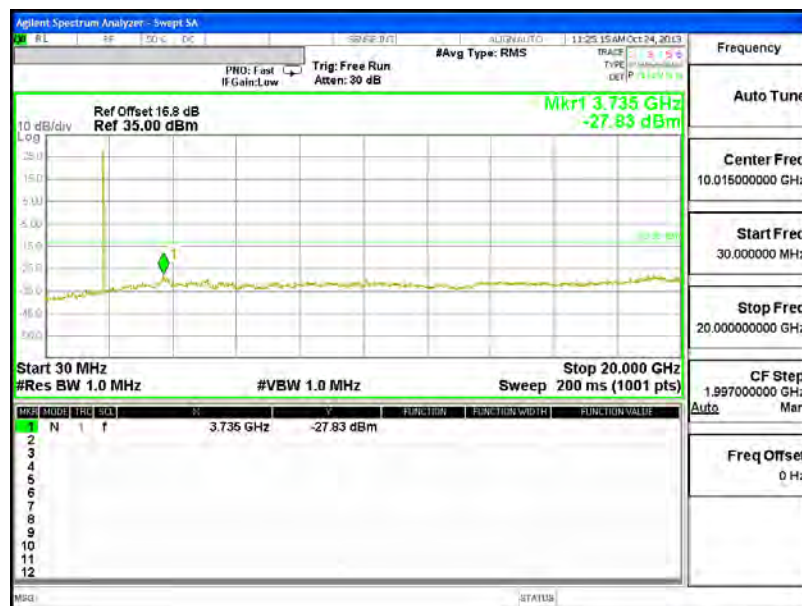


Band 2 (10MHz BANDWIDTH)**LTE QPSK**

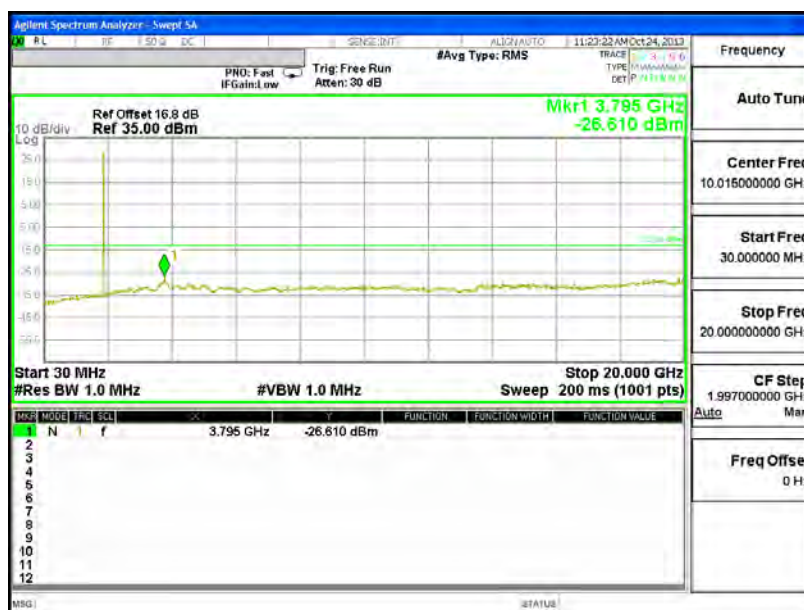
LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

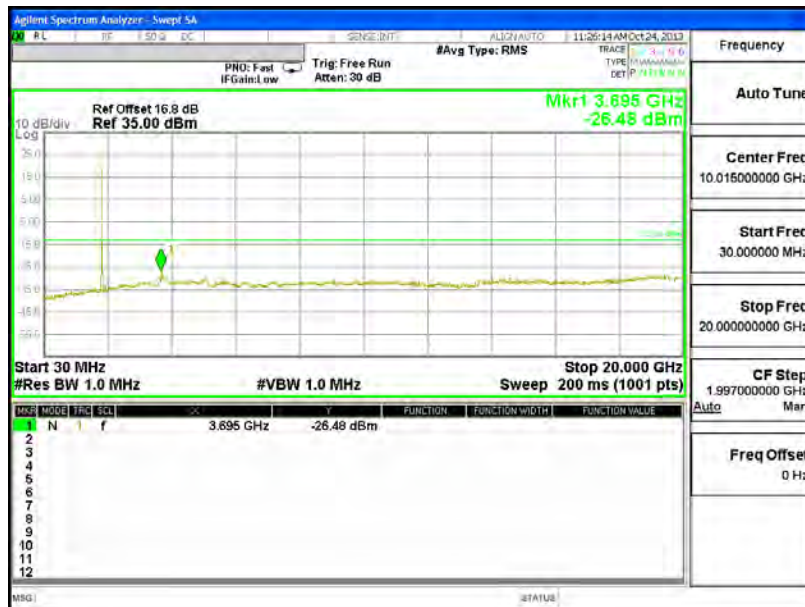


HIGH, RB1-0, 30 TO 20000 MHz

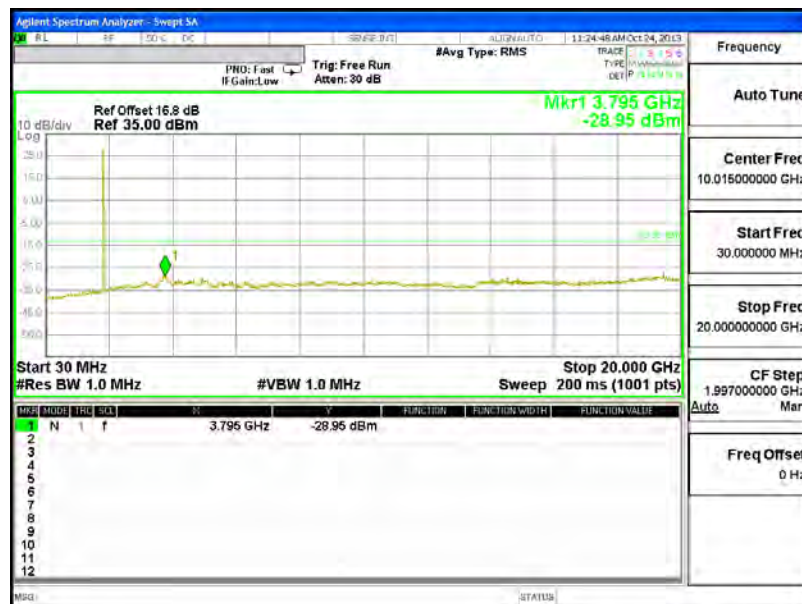


Band 2 (10MHz BANDWIDTH)**LTE 16QAM**

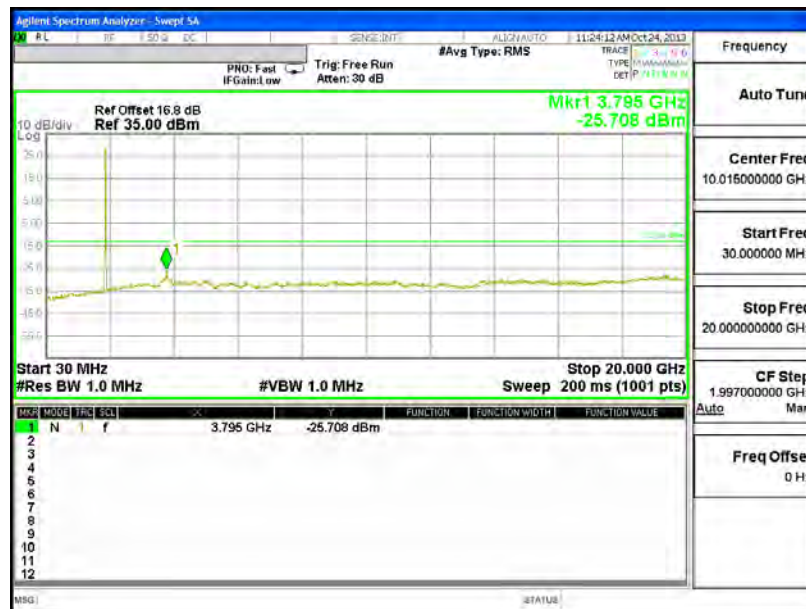
LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

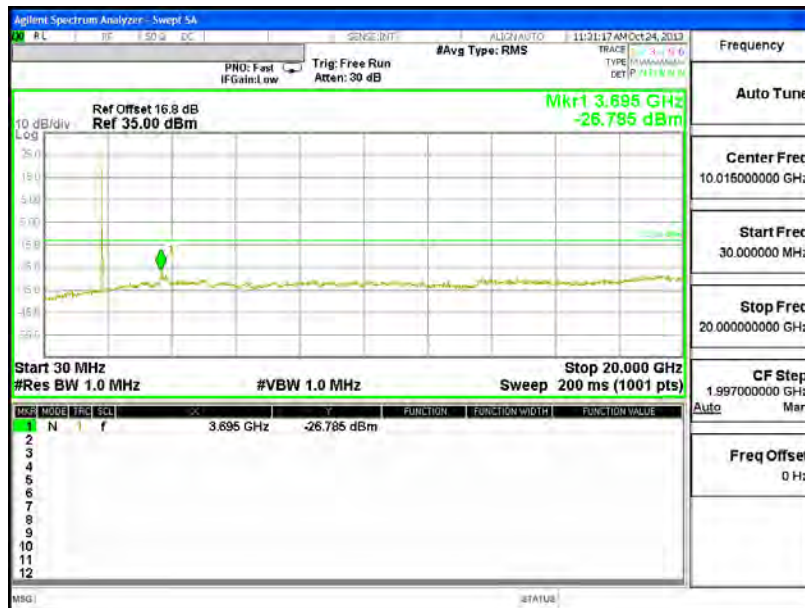


HIGH, RB1-0, 30 TO 20000 MHz

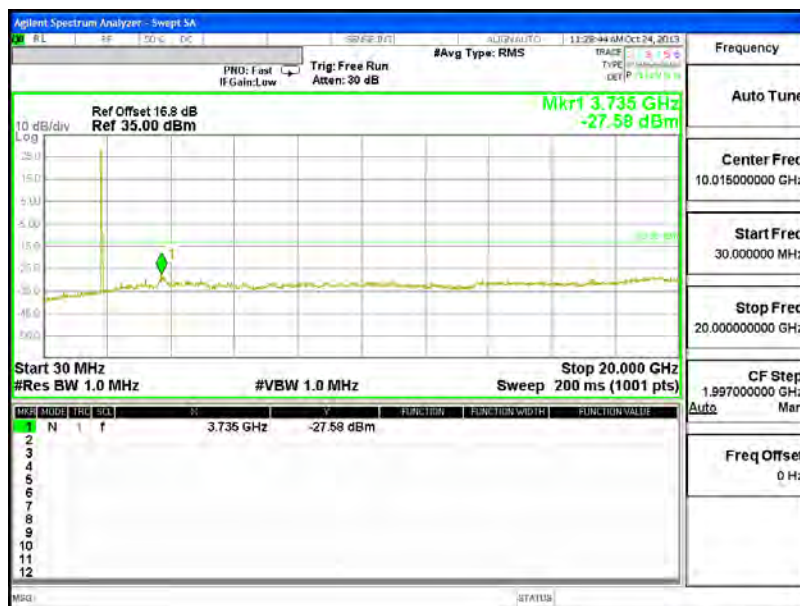


Band 2 (15MHz BANDWIDTH)**LTE QPSK**

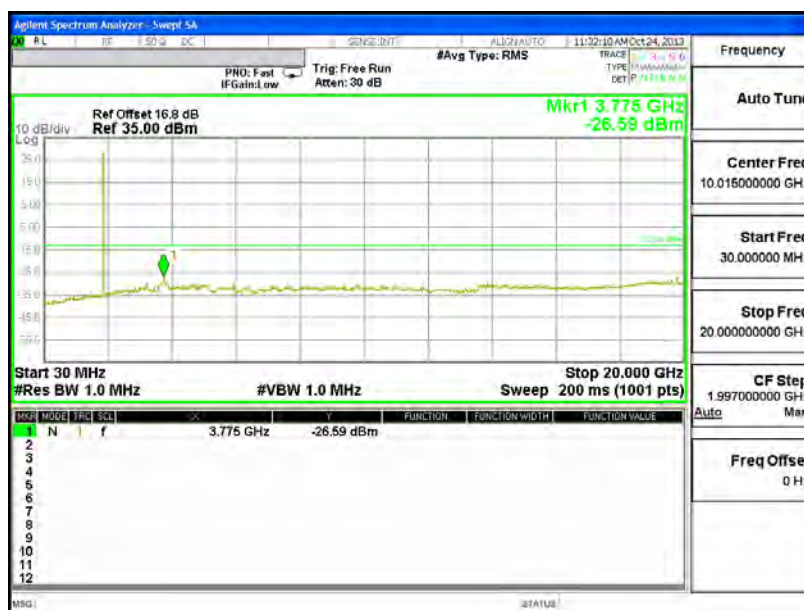
LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

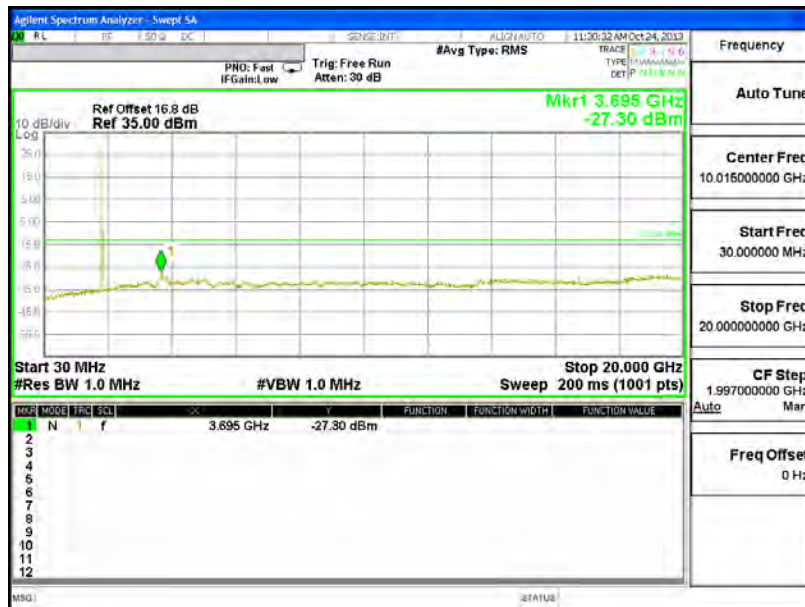


HIGH, RB1-0, 30 TO 20000 MHz

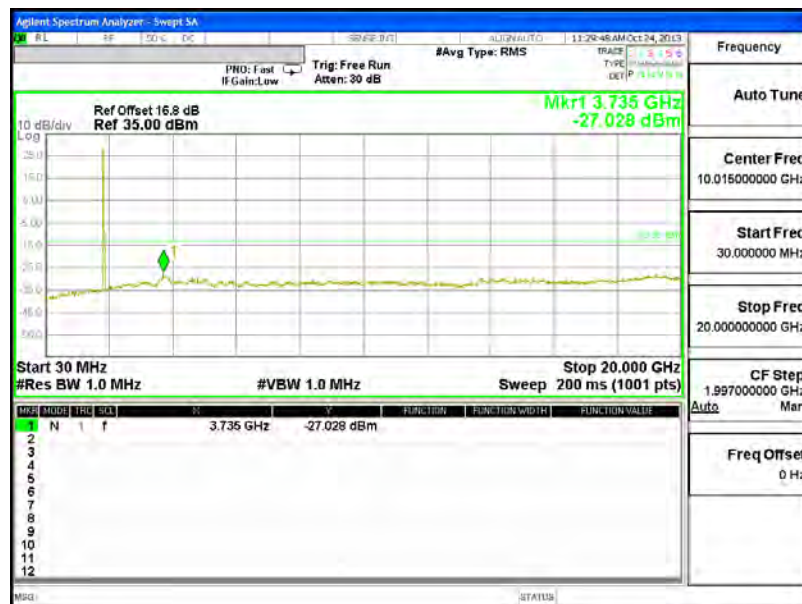


Band 2 (15MHz BANDWIDTH)**LTE 16QAM**

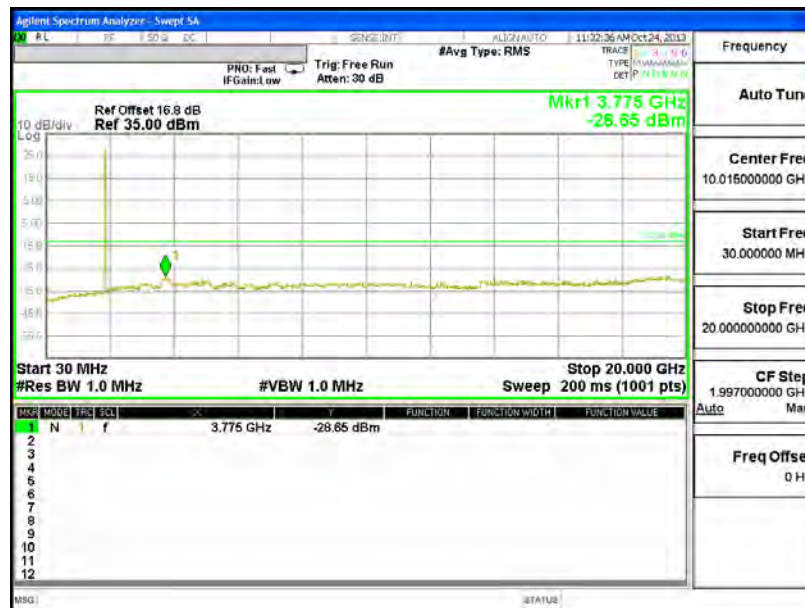
LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

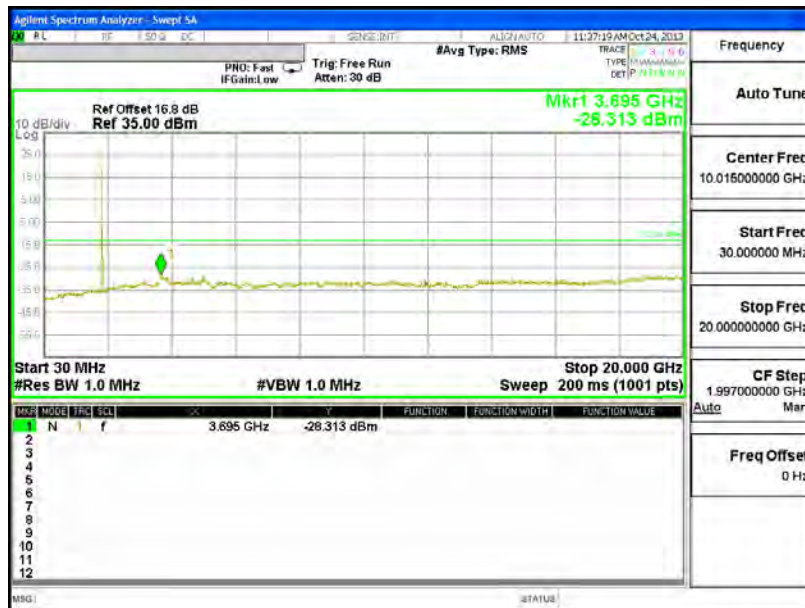


HIGH, RB1-0, 30 TO 20000 MHz

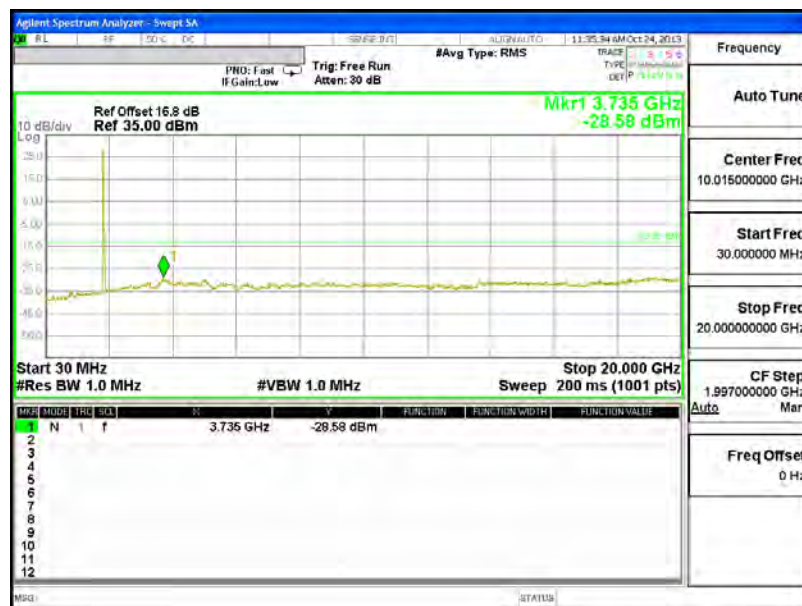


Band 2 (20MHz BANDWIDTH)**LTE QPSK**

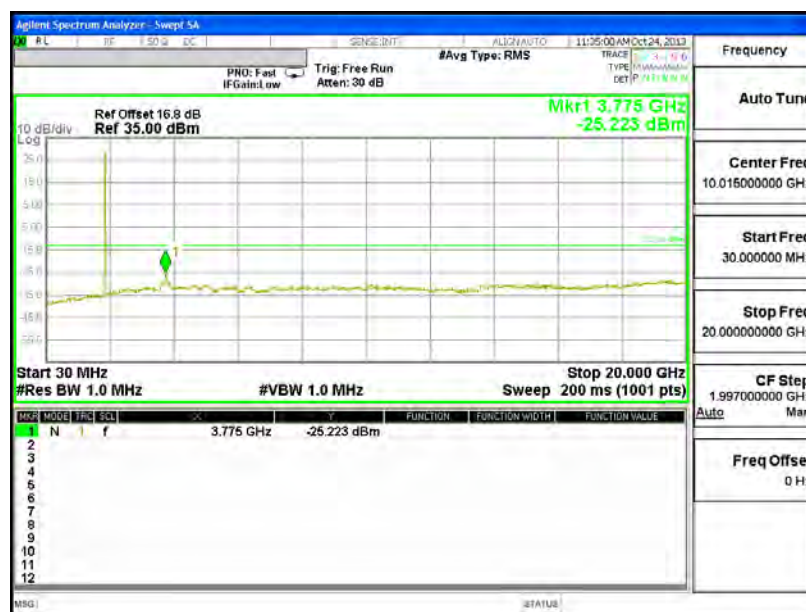
LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

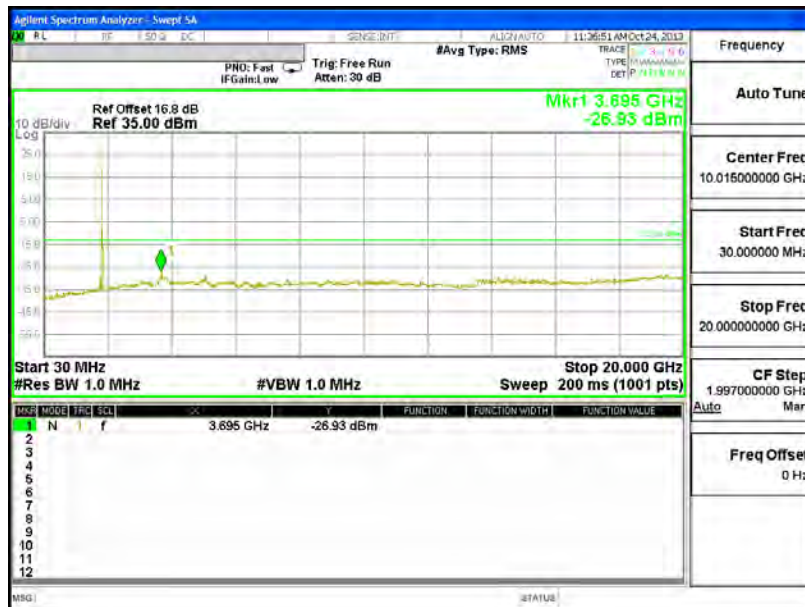


HIGH, RB1-0, 30 TO 20000 MHz

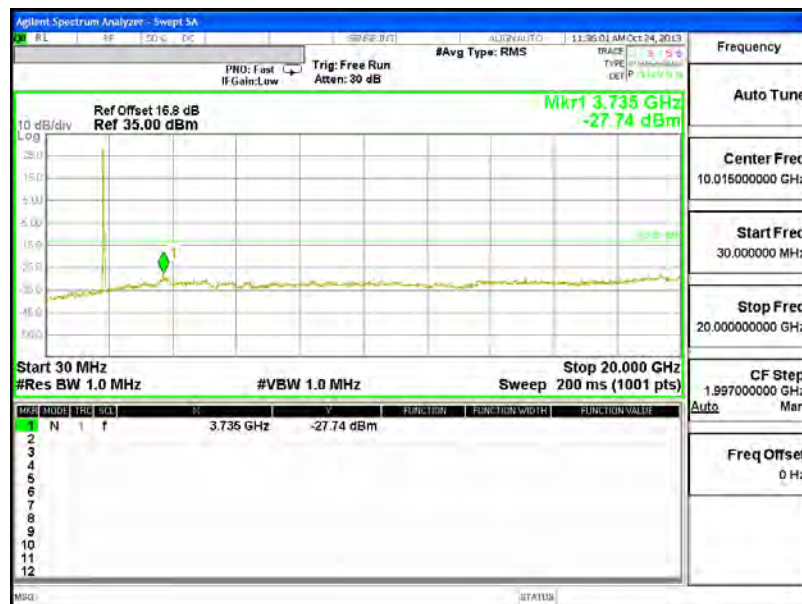


Band 2 (20MHz BANDWIDTH)**LTE 16QAM**

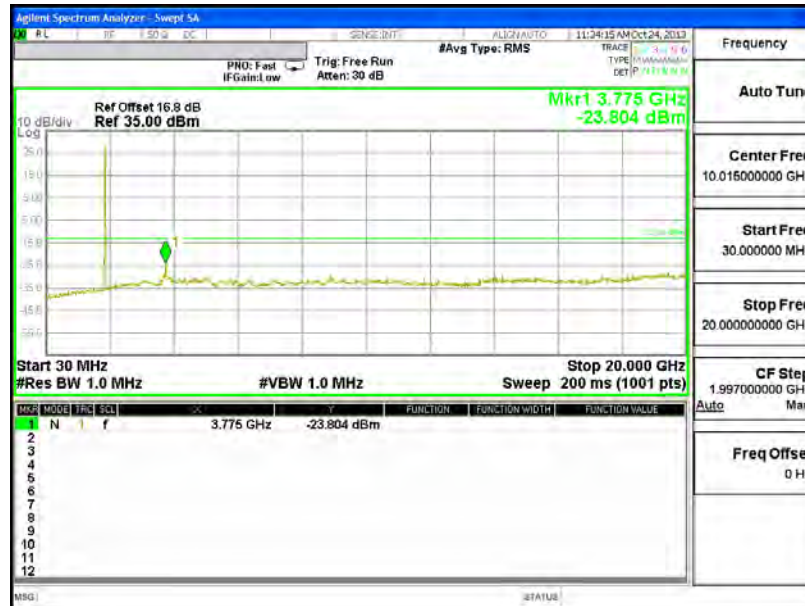
LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



HIGH, RB1-0, 30 TO 20000 MHz

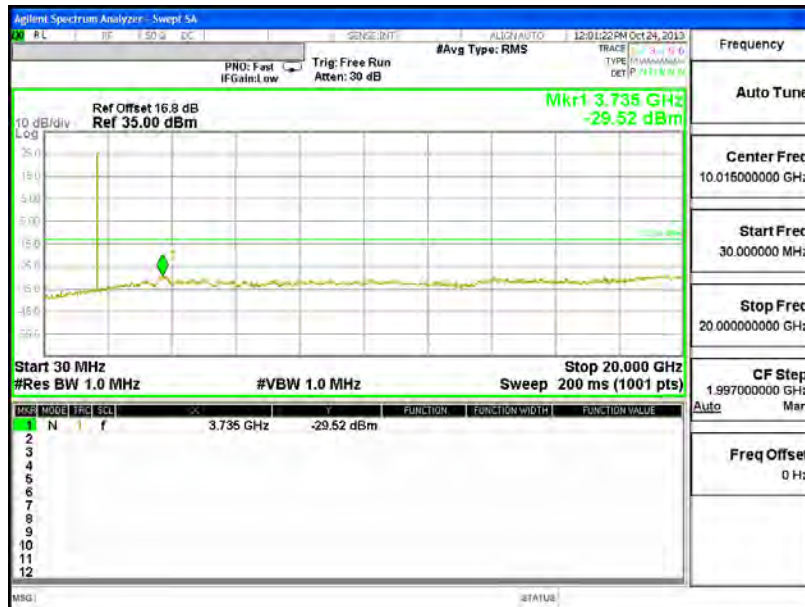


8.3.2. LTE BAND 4

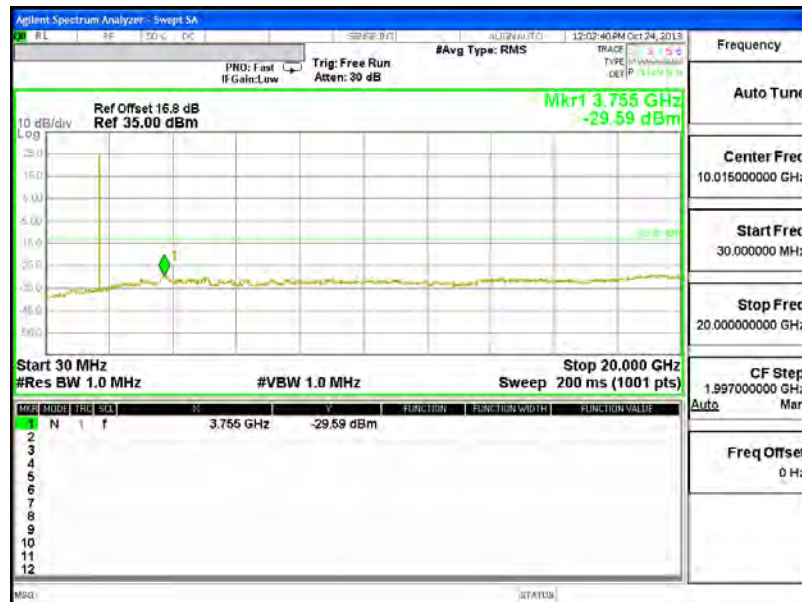
Band 4 (1.4 MHz BANDWIDTH)

LTE QPSK

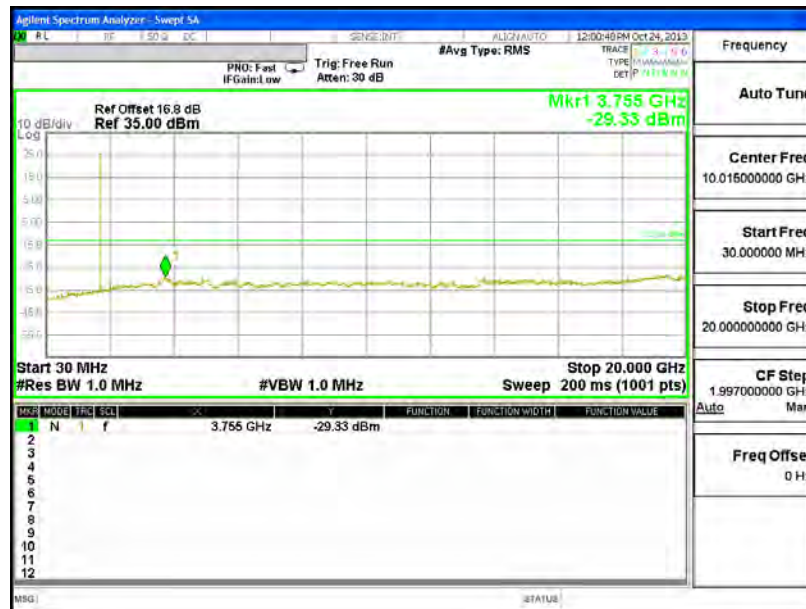
LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

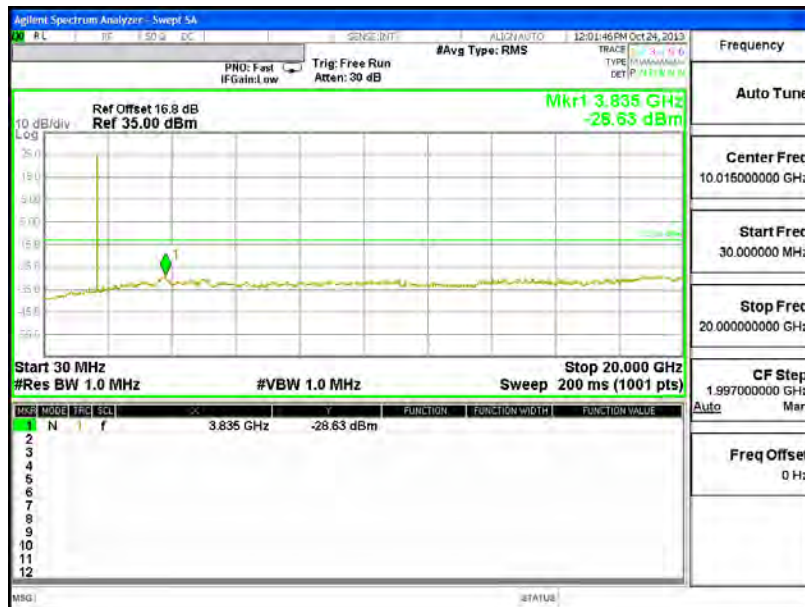


HIGH, RB1-0, 30 TO 20000 MHz

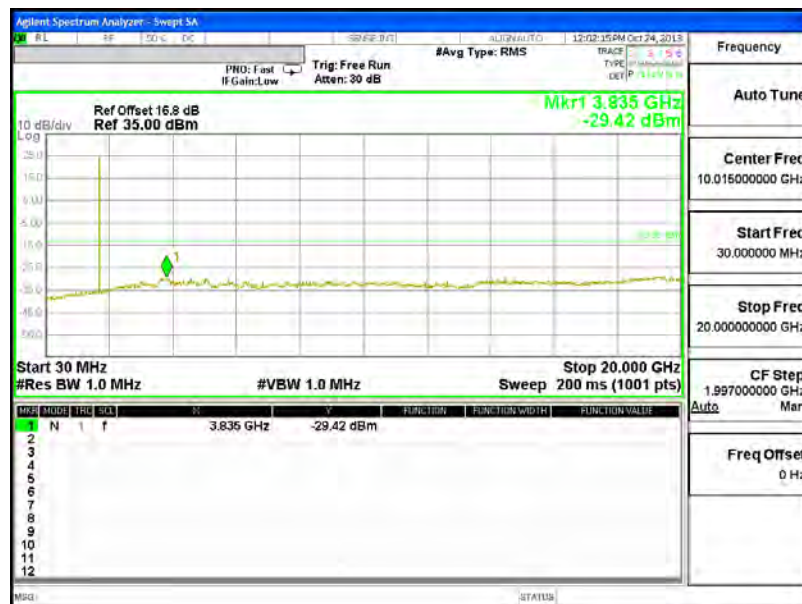


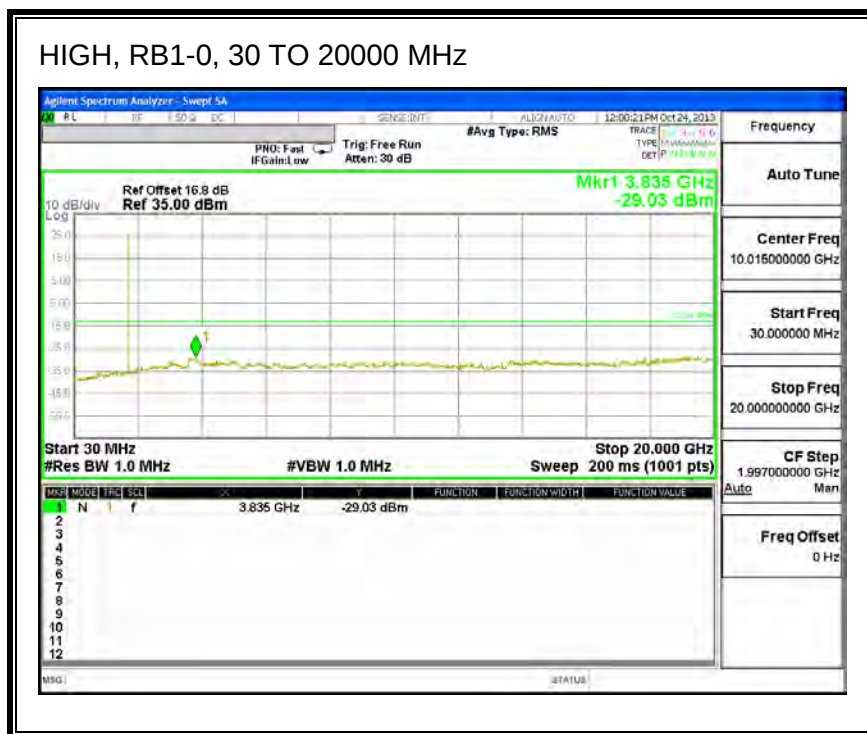
Band 4 (1.4 MHz BANDWIDTH)**LTE 16QAM**

LOW, RB1-0, 30 TO 20000 MHz



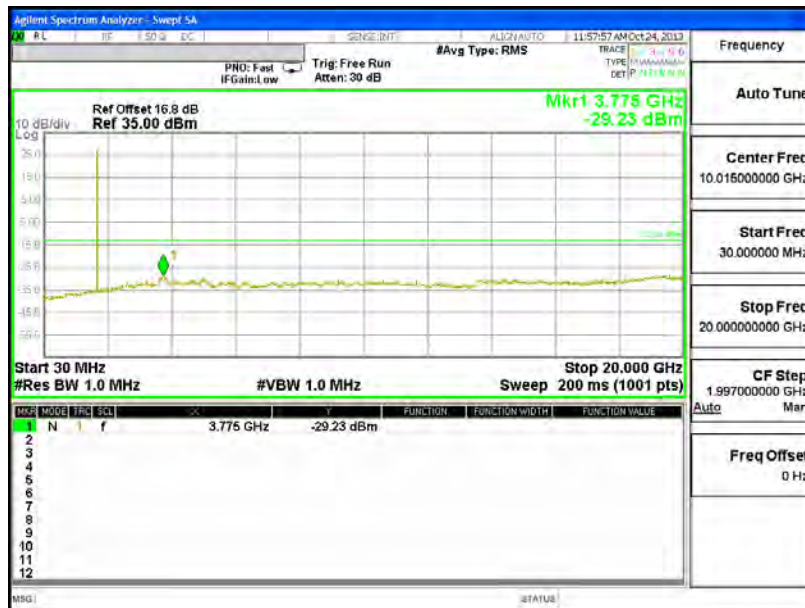
MID, RB1-0, 30 TO 20000 MHz





Band 4 (3MHz BANDWIDTH)**LTE QPSK**

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

