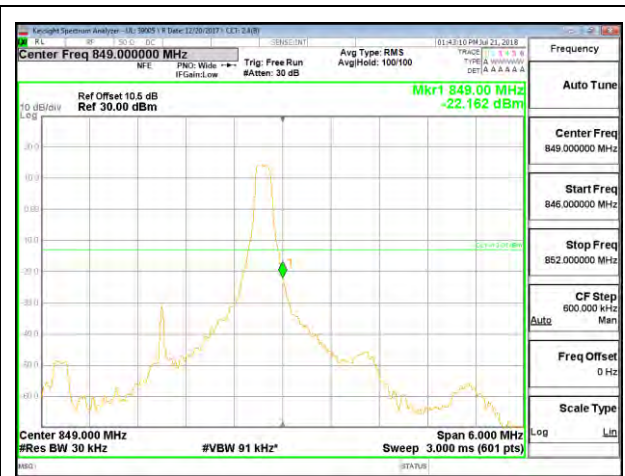
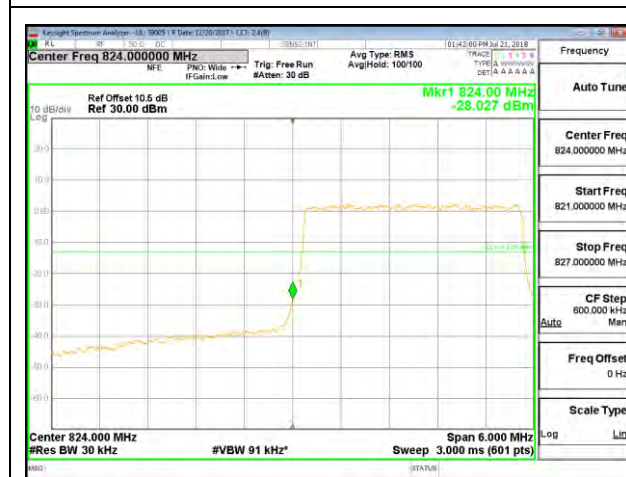


LTE B5 3MHz 16QAM Low Channel RB1-0



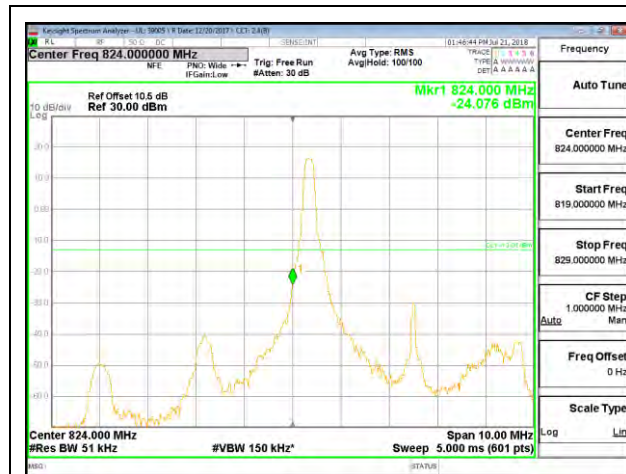
LTE B5 3MHz 16QAM High Channel RB1-0



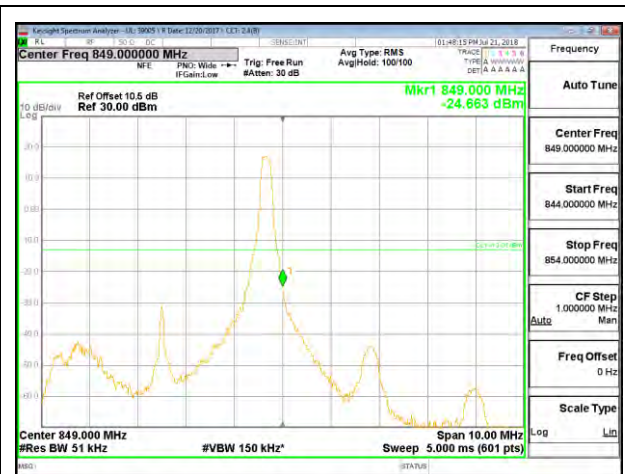
LTE B5 3MHz 16QAM Low Channel RB15-0



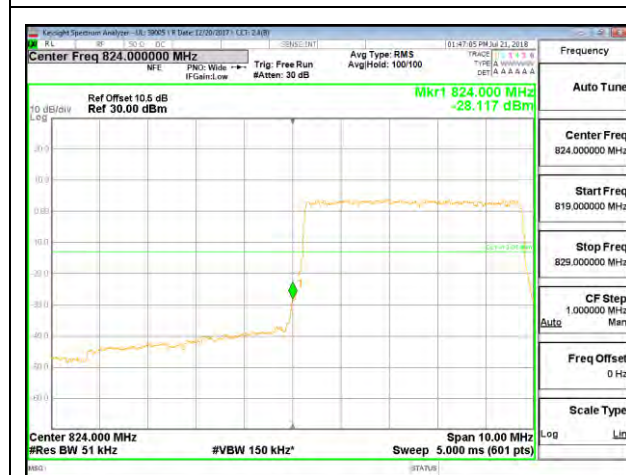
LTE B5 3MHz 16QAM High Channel RB15-0



LTE B5 5MHz QPSK Low Channel RB1-0



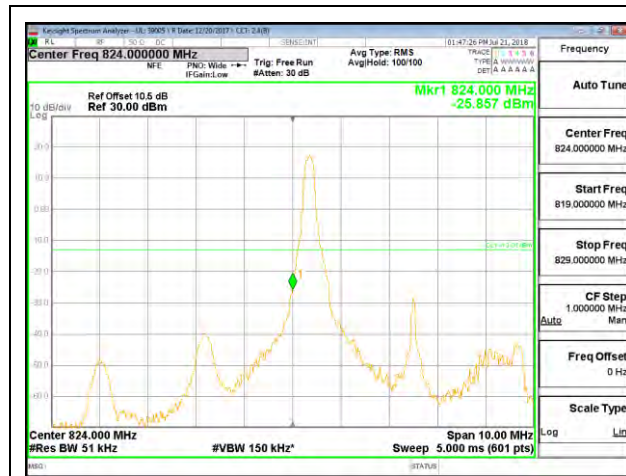
LTE B5 5MHz QPSK High Channel RB1-0



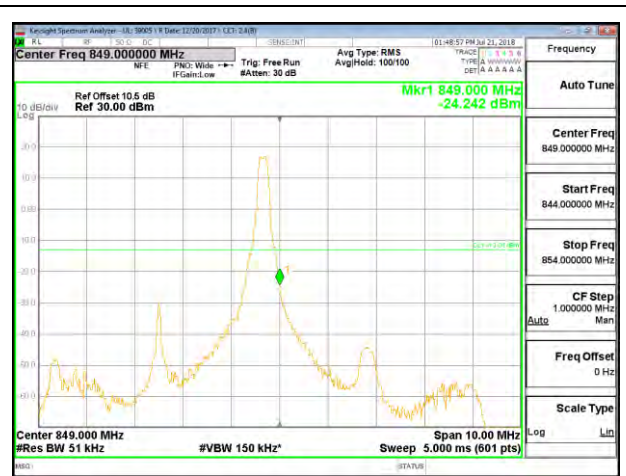
LTE B5 5MHz QPSK Low Channel RB25-0



LTE B5 5MHz QPSK High Channel RB25-0



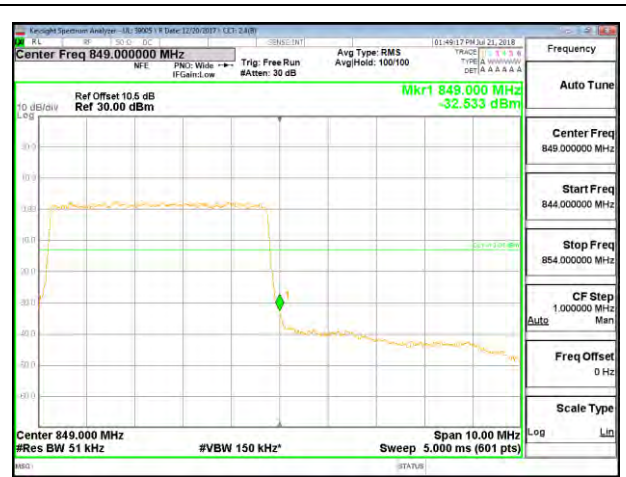
LTE B5 5MHz 16QAM Low Channel RB1-0



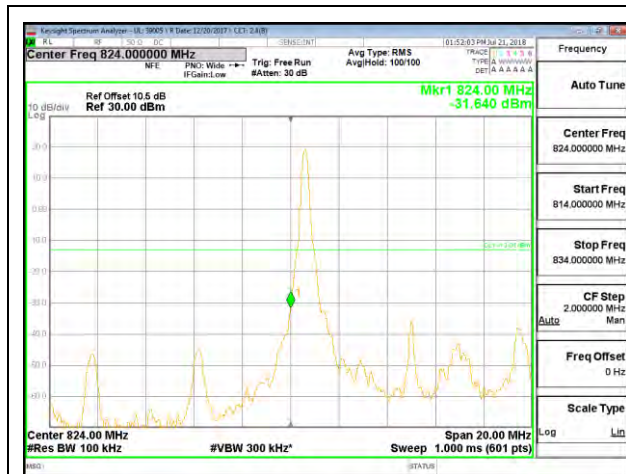
LTE B5 5MHz 16QAM High Channel RB1-0



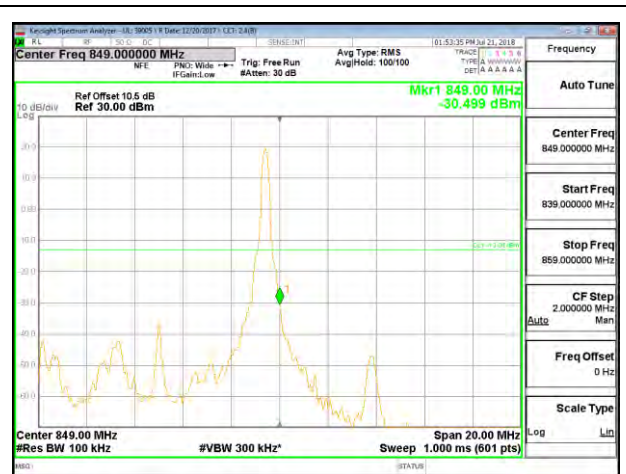
LTE B5 5MHz 16QAM Low Channel RB25-0



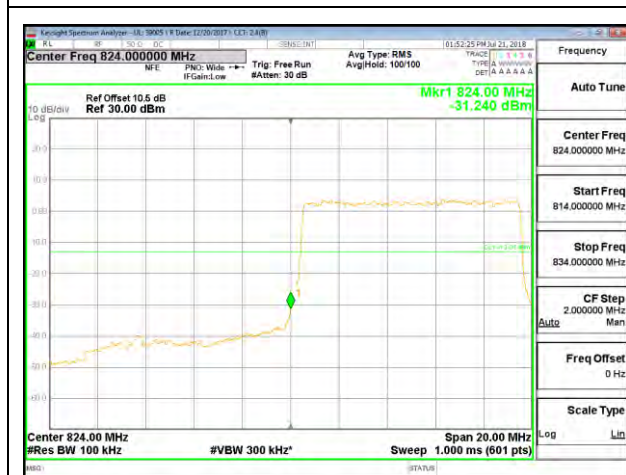
LTE B5 5MHz 16QAM High Channel RB25-0



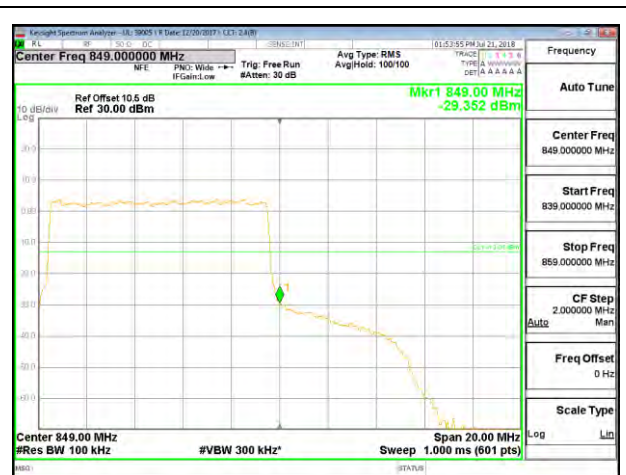
LTE B5 10MHz QPSK Low Channel RB1-0



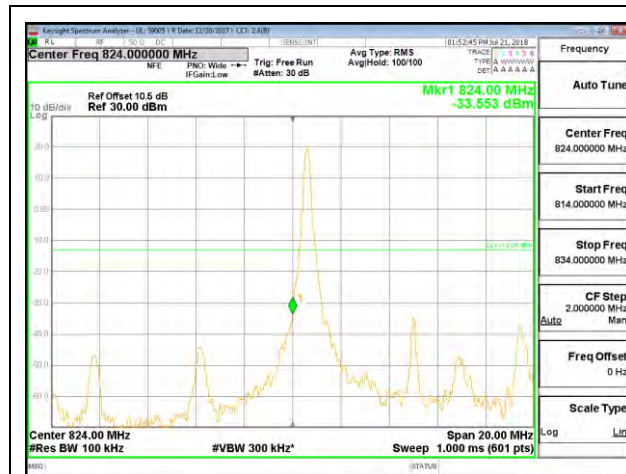
LTE B5 10MHz QPSK High Channel RB1-0



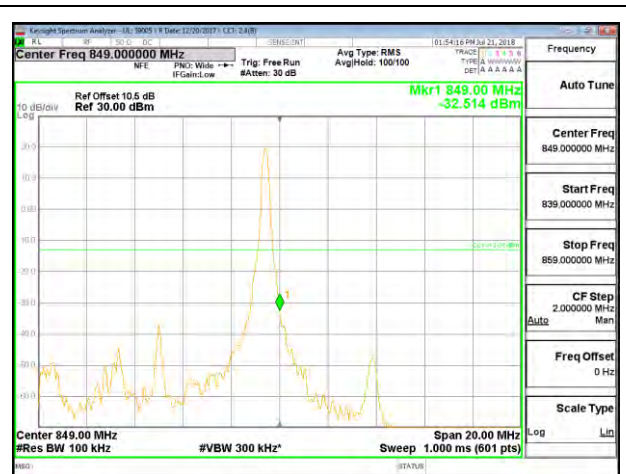
LTE B5 10MHz QPSK Low Channel RB50-0



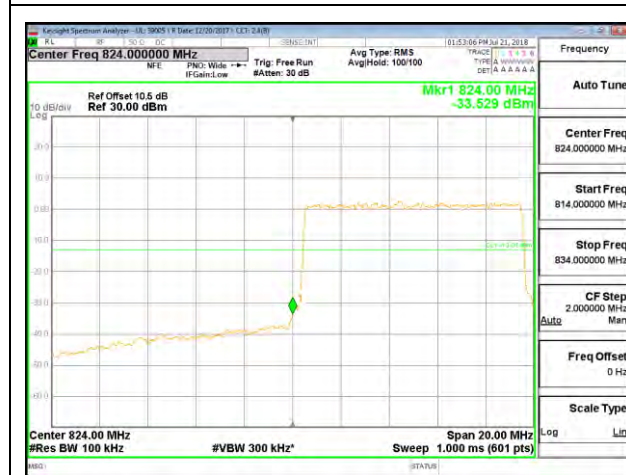
LTE B5 10MHz QPSK High Channel RB50-0



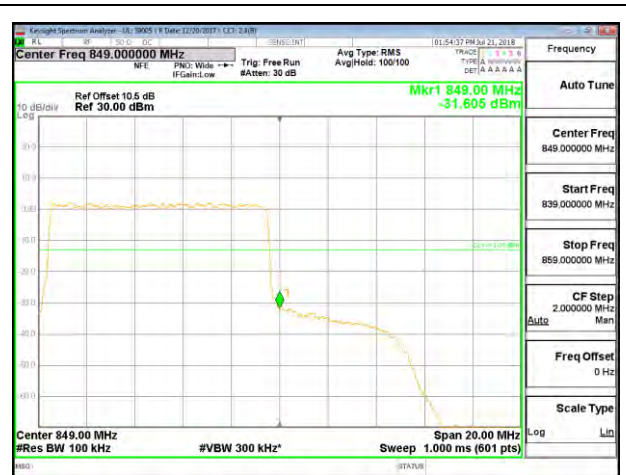
LTE B5 10MHz 16QAM Low Channel RB1-0



LTE B5 10MHz 16QAM High Channel RB1-0

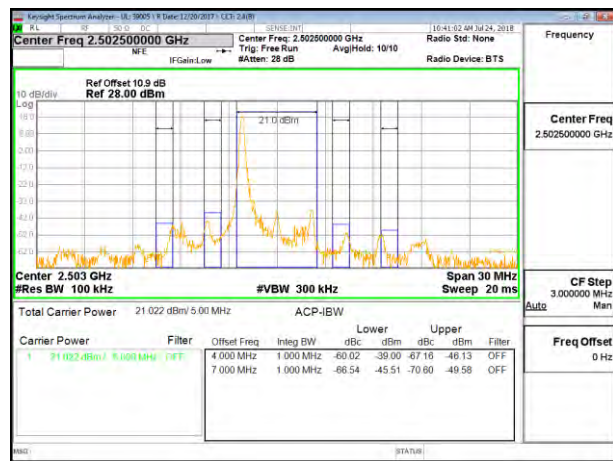


LTE B5 10MHz 16QAM Low Channel RB50-0

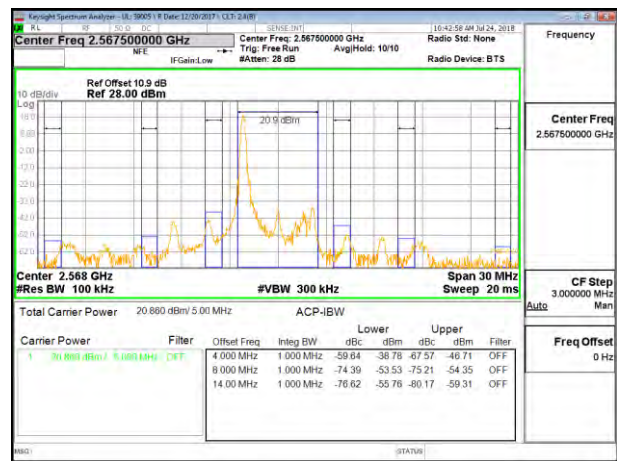


LTE B5 10MHz 16QAM High Channel RB50-0

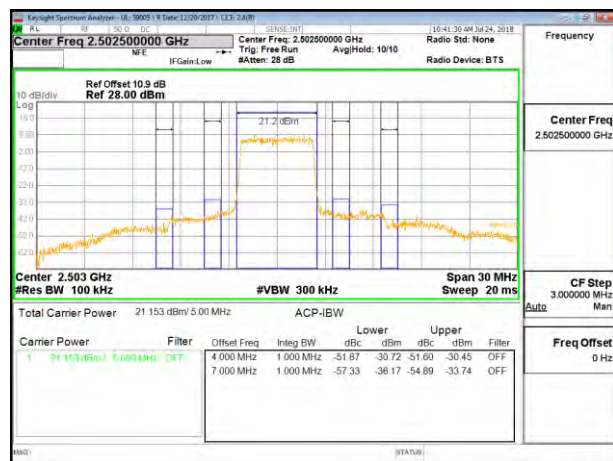
8.2.8. LTE BAND 7 ADJACENT CHANNEL POWER



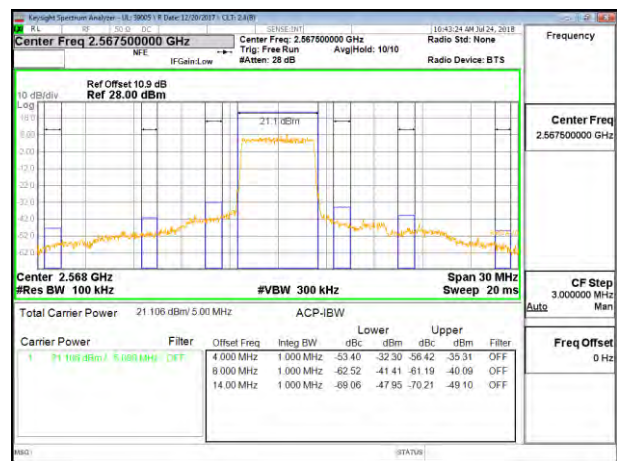
LTE B7 5MHz QPSK Low Channel RB1-0



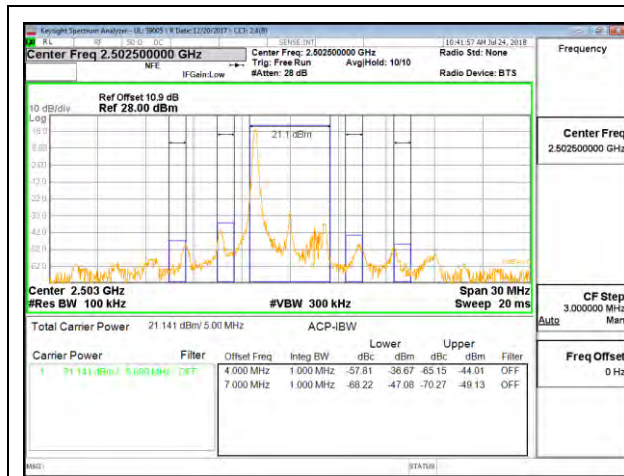
LTE B7 5MHz QPSK High Channel RB1-0



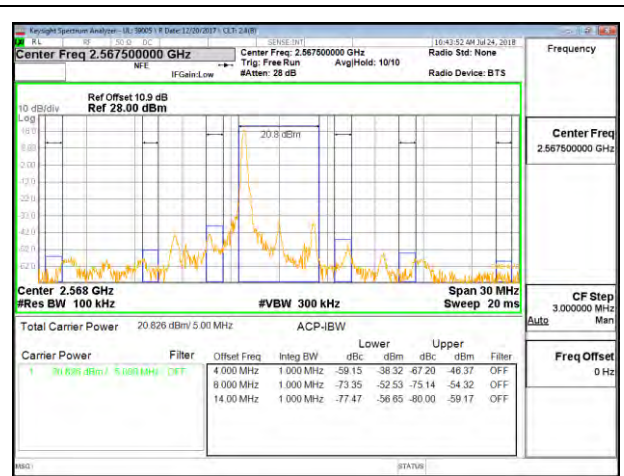
LTE B7 5MHz QPSK Low Channel RB25-0



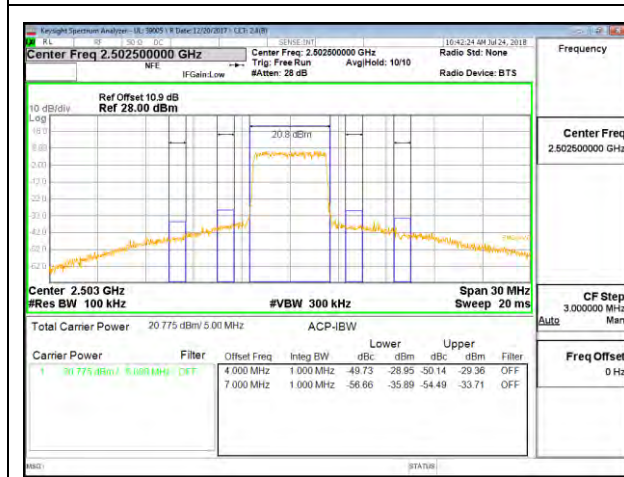
LTE B7 5MHz QPSK High Channel RB25-0



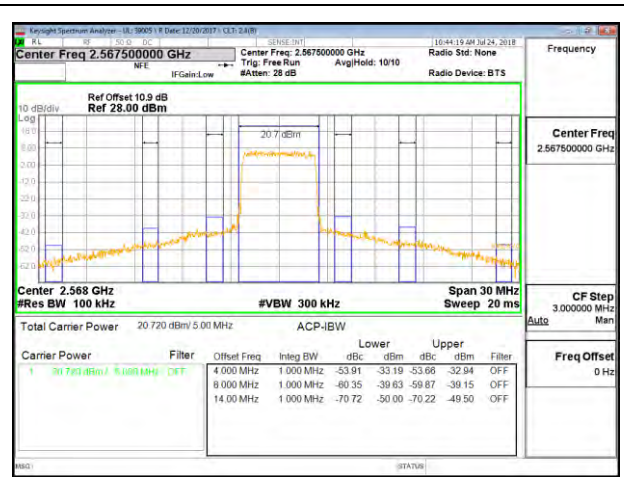
LTE B7 5MHz 16QAM Low Channel RB1-0



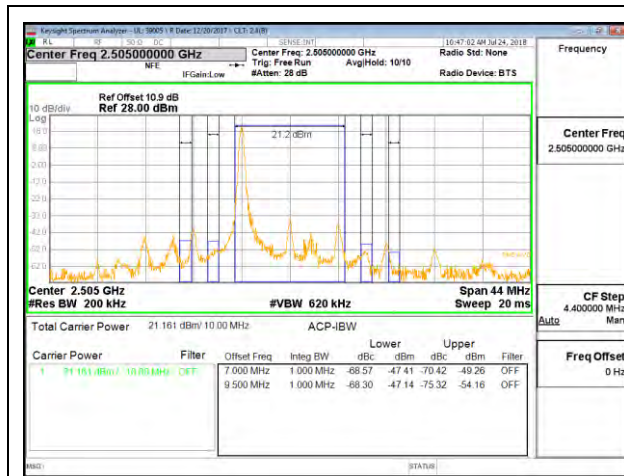
LTE B7 5MHz 16QAM High Channel RB1-0



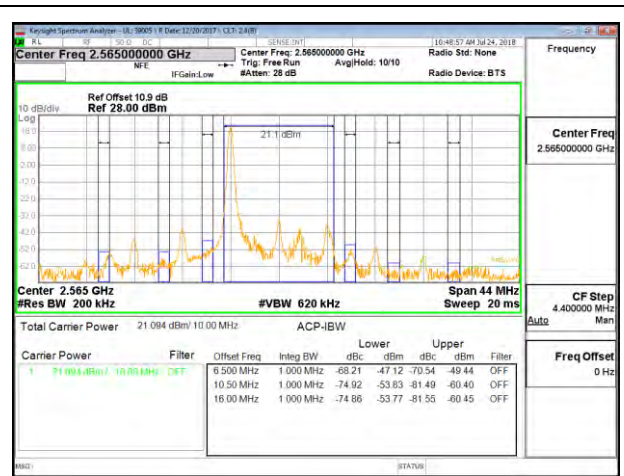
LTE B7 5MHz 16QAM Low Channel RB25-0



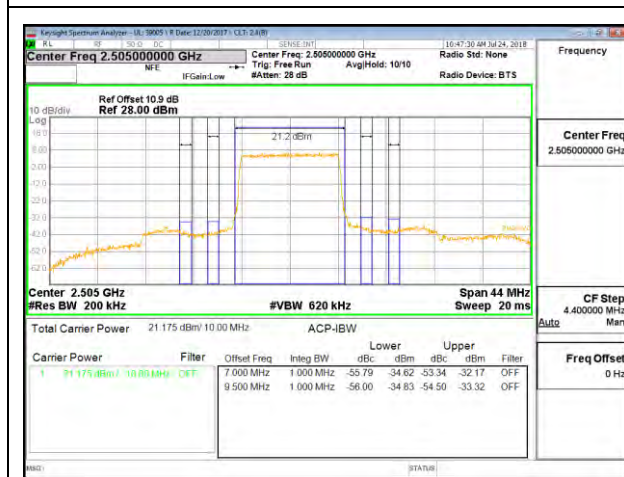
LTE B7 5MHz 16QAM High Channel RB25-0



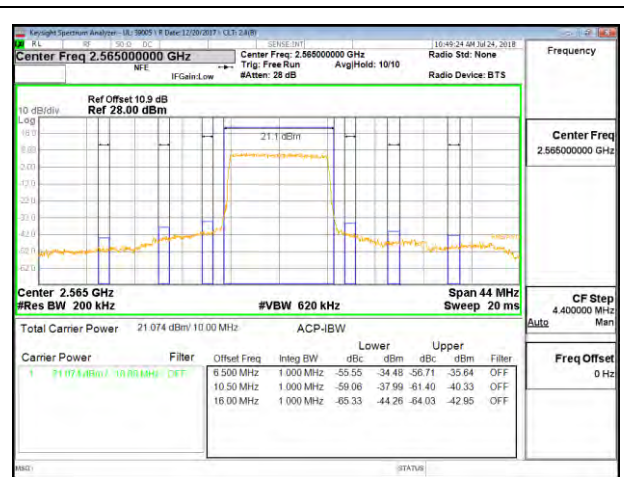
LTE B7 10MHz QPSK Low Channel RB1-0



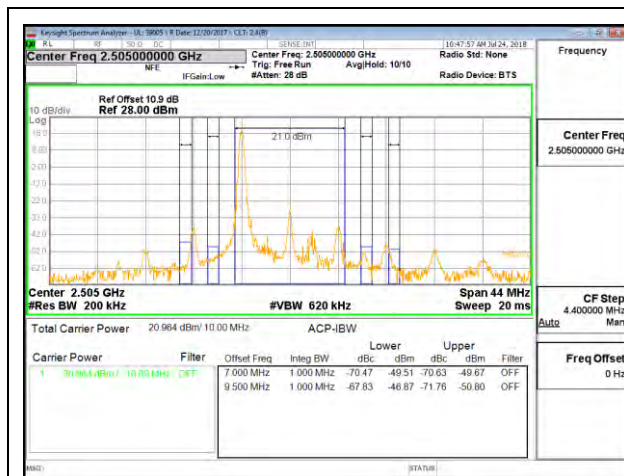
LTE B7 10MHz QPSK High Channel RB1-0



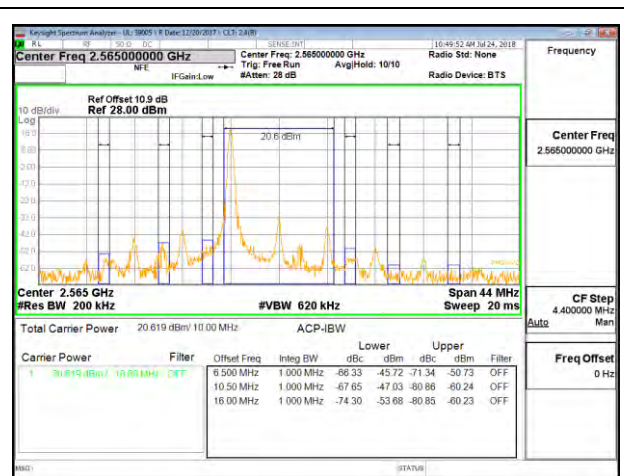
LTE B7 10MHz QPSK Low Channel RB50-0



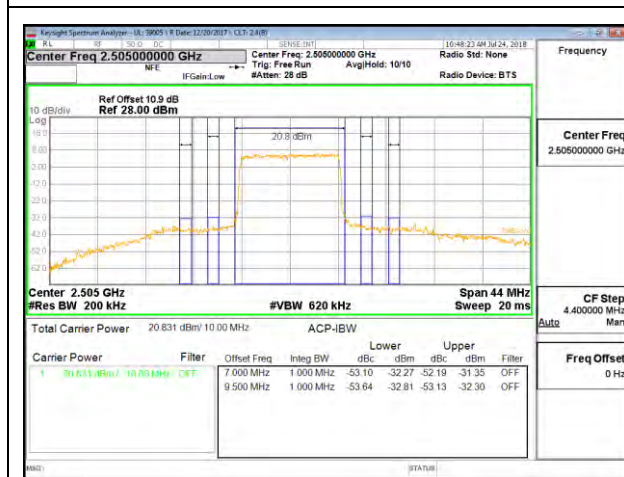
LTE B7 10MHz QPSK High Channel RB50-0



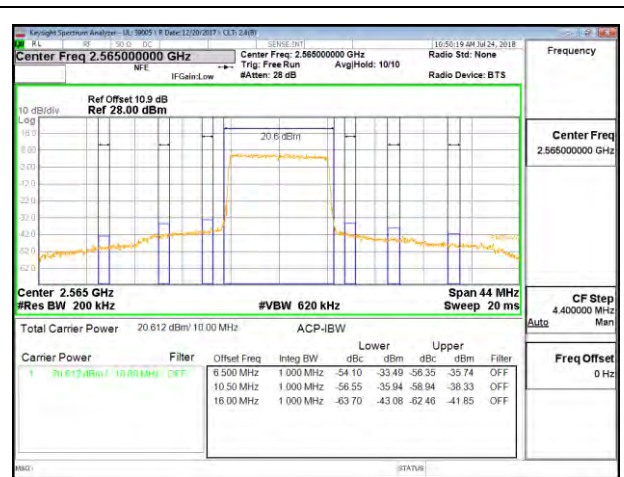
LTE B7 10MHz 16QAM Low Channel RB1-0



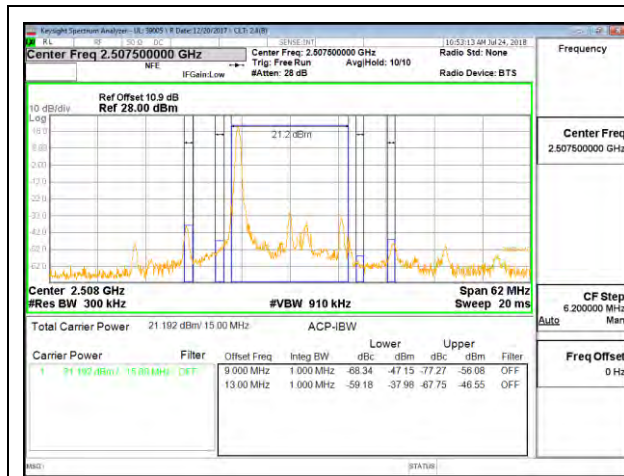
LTE B7 10MHz 16QAM High Channel RB1-0



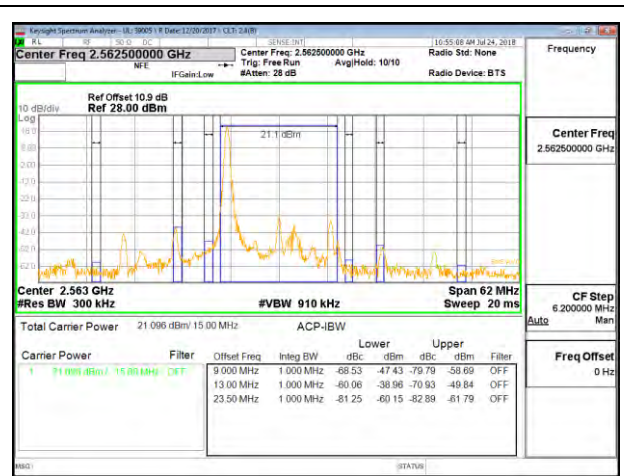
LTE B7 10MHz 16QAM Low Channel RB50-0



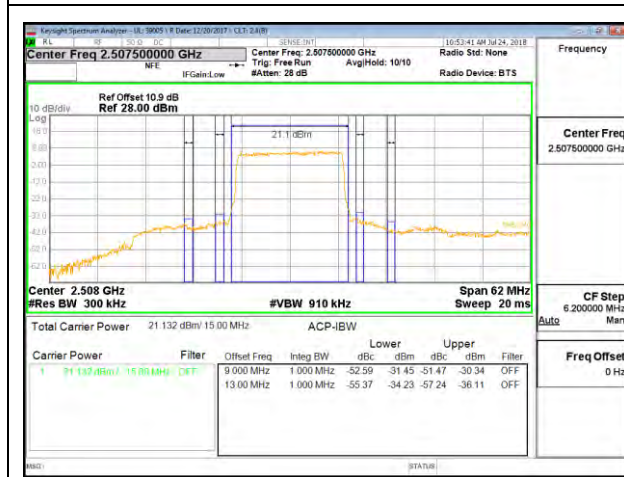
LTE B7 10MHz 16QAM High Channel RB50-0



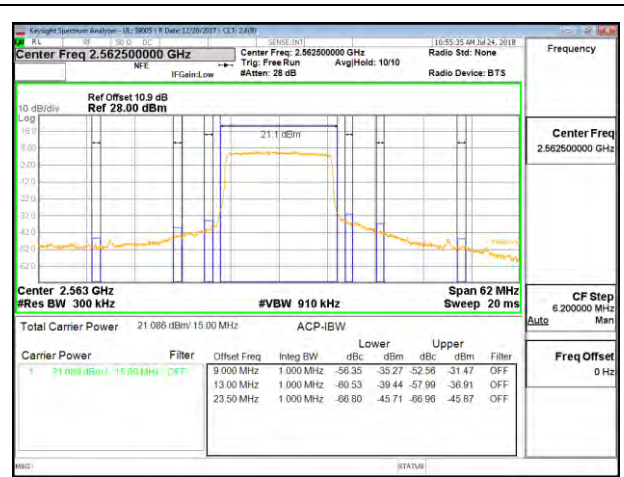
LTE B7 15MHz QPSK Low Channel RB1-0



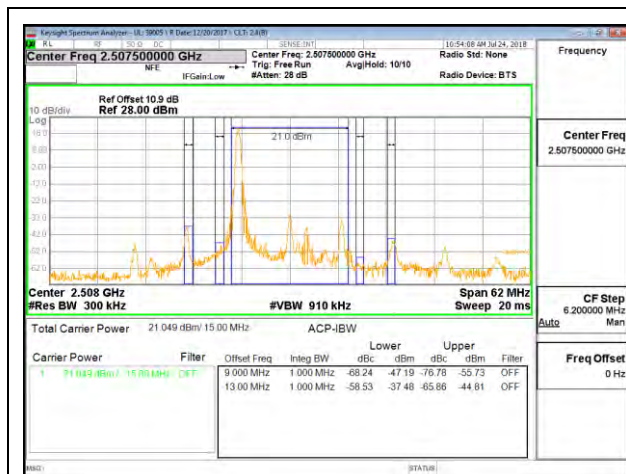
LTE B7 15MHz QPSK High Channel RB1-0



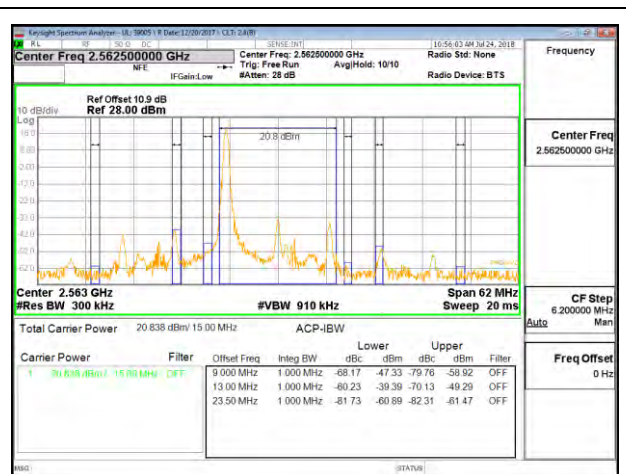
LTE B7 15MHz QPSK Low Channel RB75-0



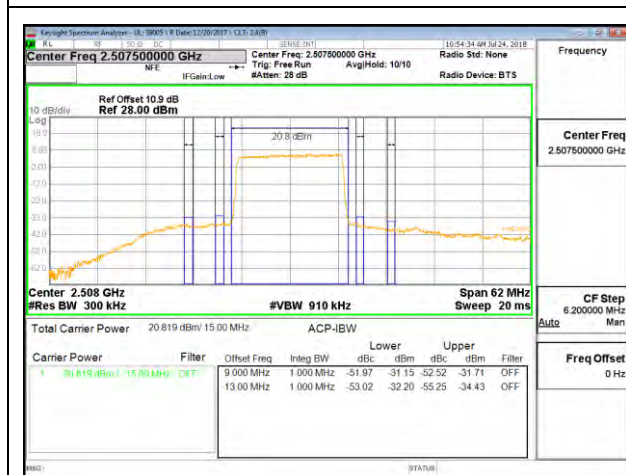
LTE B7 15MHz QPSK High Channel RB75-0



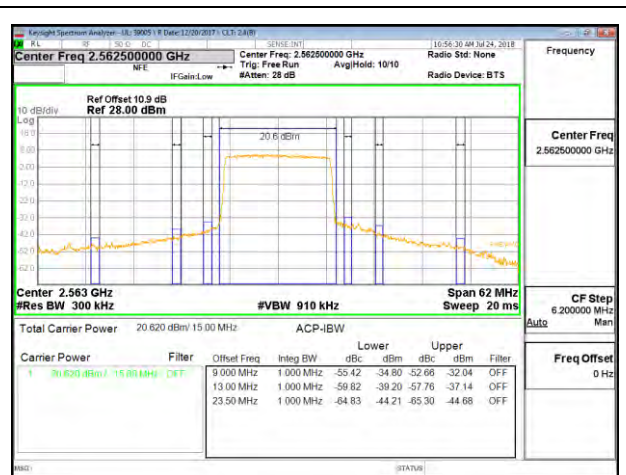
LTE B7 15MHz 16QAM Low Channel RB1-0



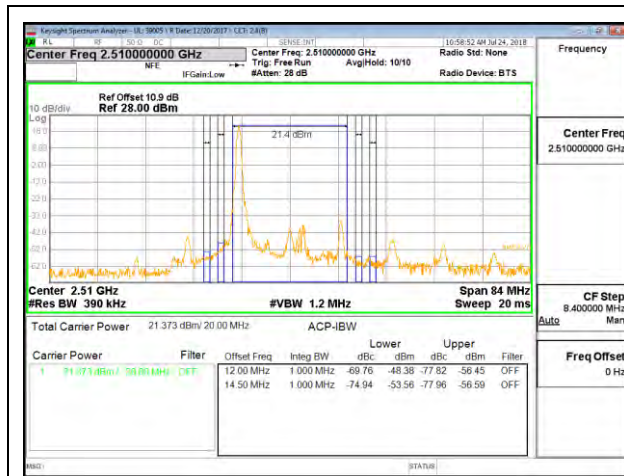
LTE B7 15MHz 16QAM High Channel RB1-0



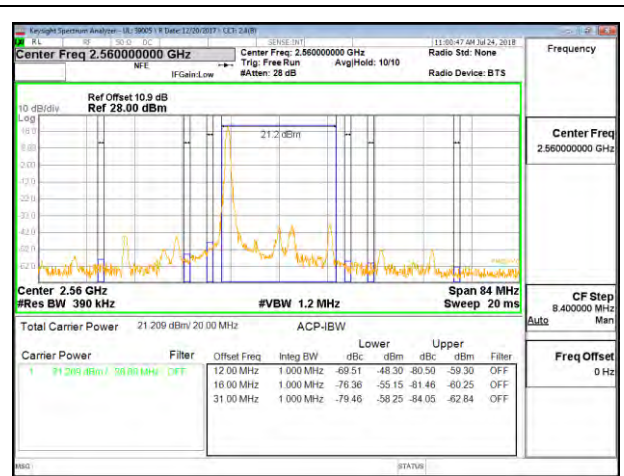
LTE B7 15MHz 16QAM Low Channel RB75-0



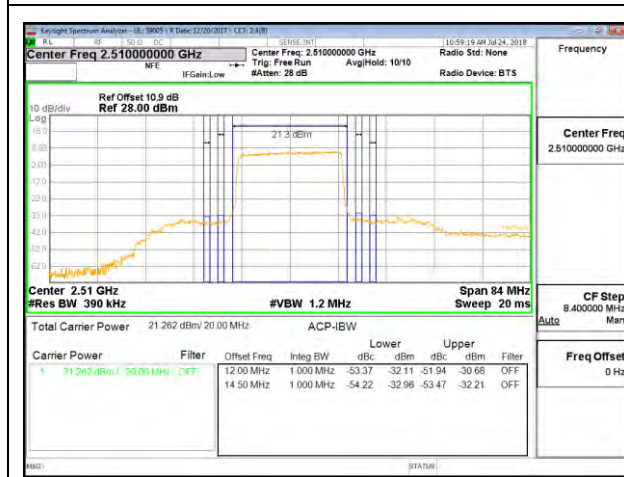
LTE B7 15MHz 16QAM High Channel RB75-0



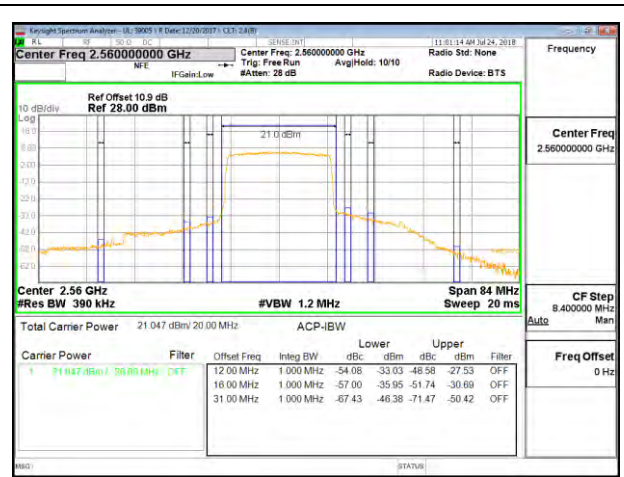
LTE B7 20MHz QPSK Low Channel RB1-0



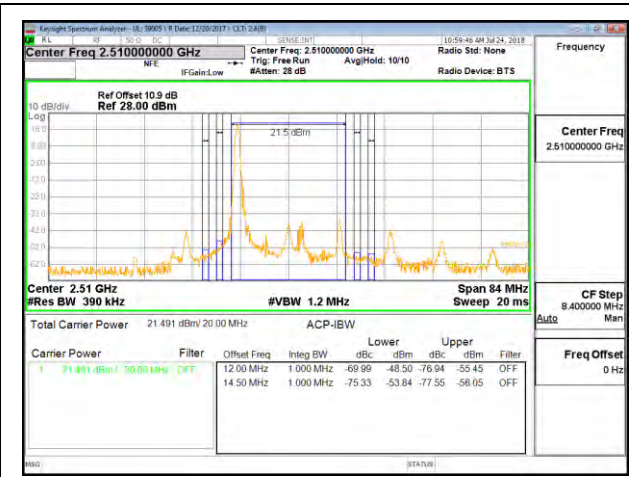
LTE B7 20MHz QPSK High Channel RB1-0



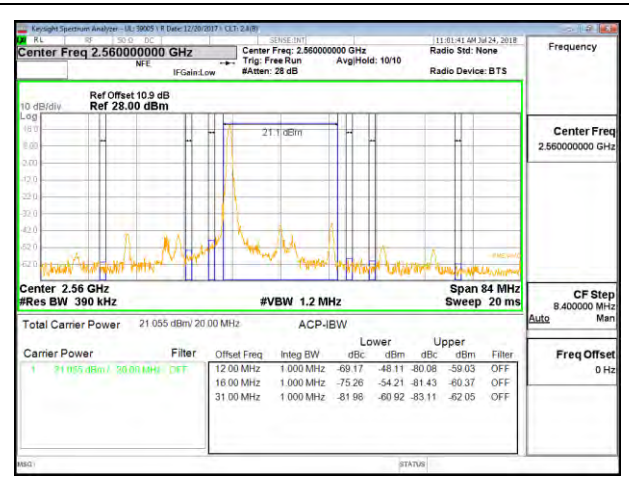
LTE B7 20MHz QPSK Low Channel RB100-0



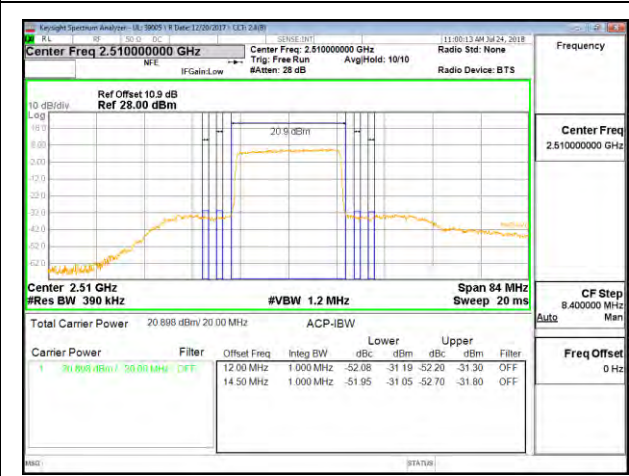
LTE B7 20MHz QPSK High Channel RB100-0



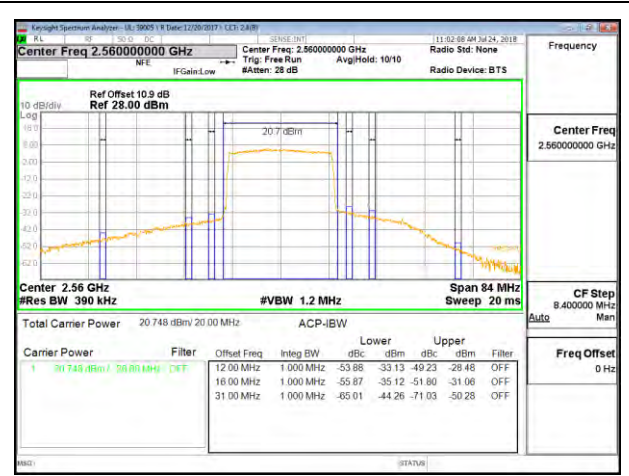
LTE B7 20MHz 16QAM Low Channel RB1-0



LTE B7 20MHz 16QAM High Channel RB1-0



LTE B7 20MHz 16QAM Low Channel RB100-0

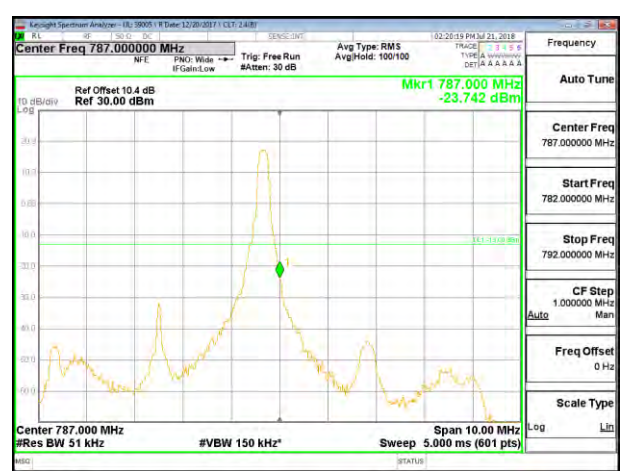


LTE B7 20MHz 16QAM High Channel RB100-0

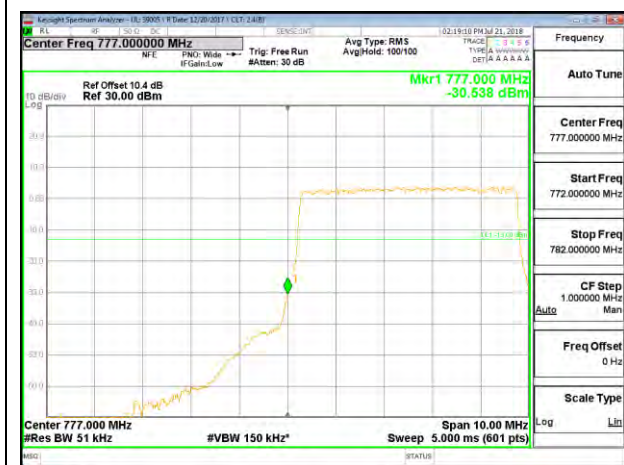
8.2.9. LTE BAND 13 BANDEDGE



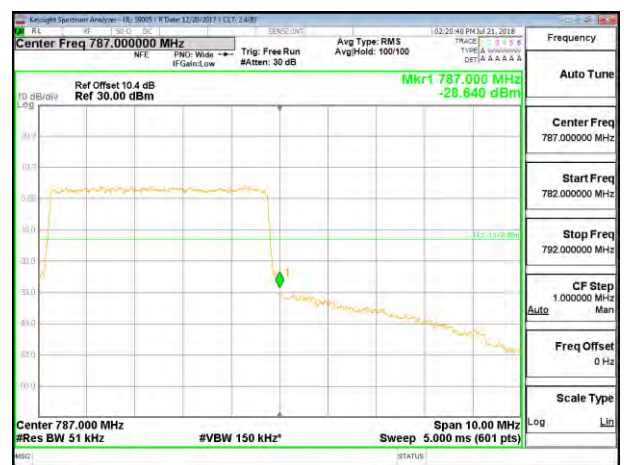
LTE B13 5MHz QPSK Low Channel RB1-0



LTE B13 5MHz QPSK High Channel RB1-0



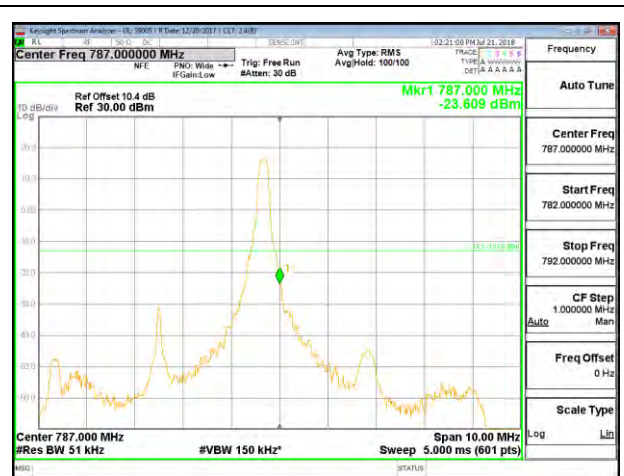
LTE B13 5MHz QPSK Low Channel RB25-0



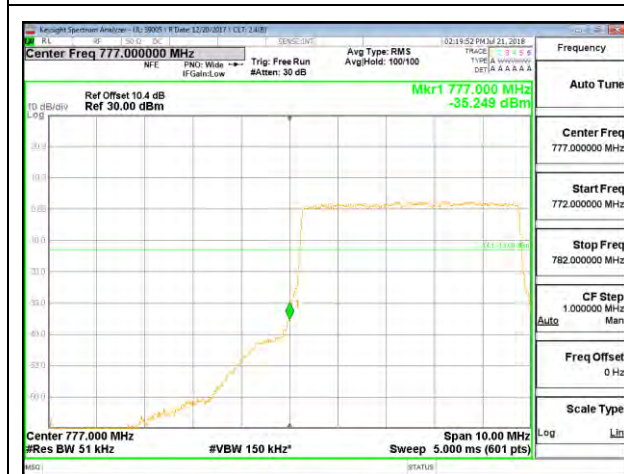
LTE B13 5MHz QPSK High Channel RB25-0



LTE B13 5MHz 16QAM Low Channel RB1-0



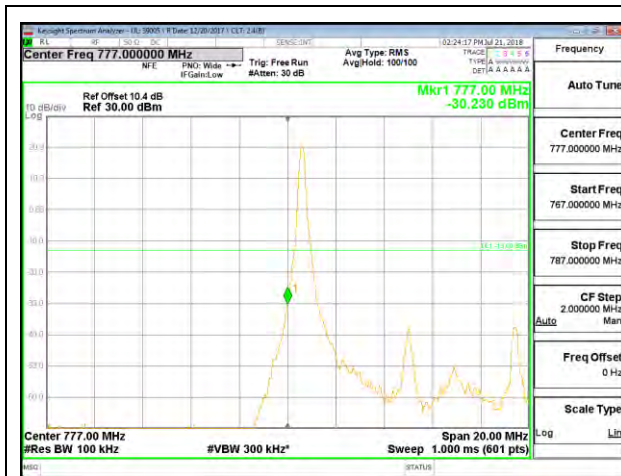
LTE B13 5MHz 16QAM High Channel RB1-0



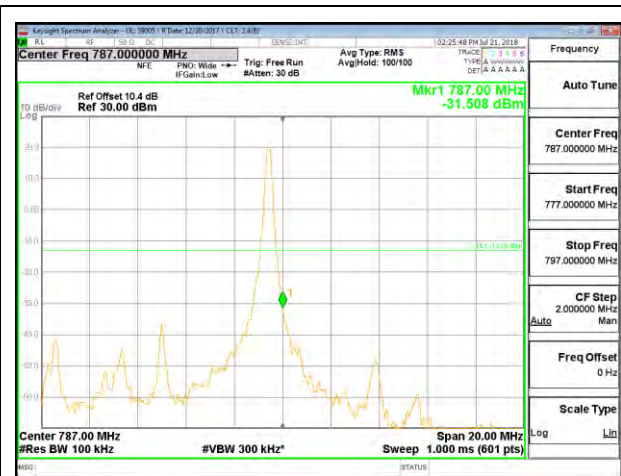
LTE B13 5MHz 16QAM Low Channel RB25-0



LTE B13 5MHz 16QAM High Channel RB25-0



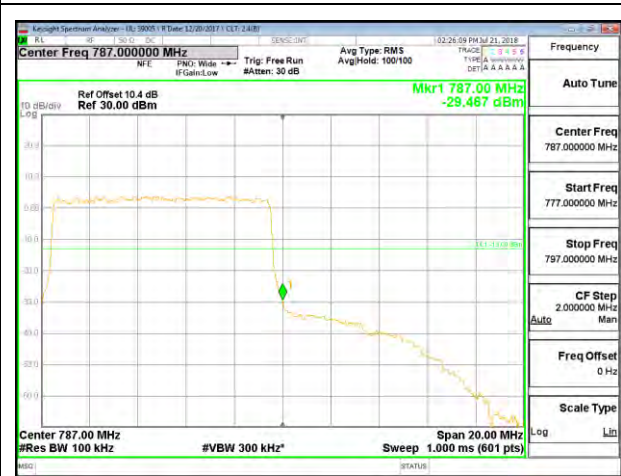
LTE B13 10MHz QPSK Mid Channel RB1-0



LTE B13 10MHz QPSK Mid Channel RB1-0



LTE B13 10MHz QPSK Mid Channel RB50-0

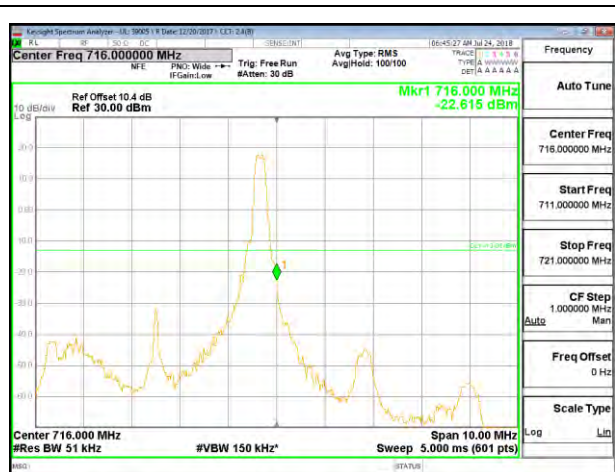


LTE B13 10MHz QPSK Mid Channel RB50-0

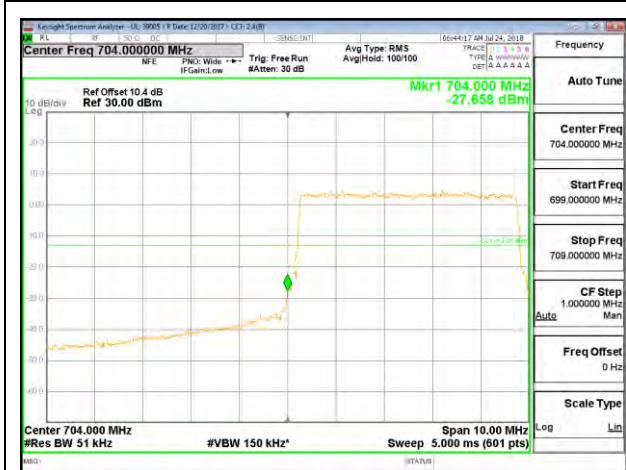
8.2.10. LTE BAND 17 BANDEDGE



LTE B17 5MHz QPSK Low Channel RB1-0



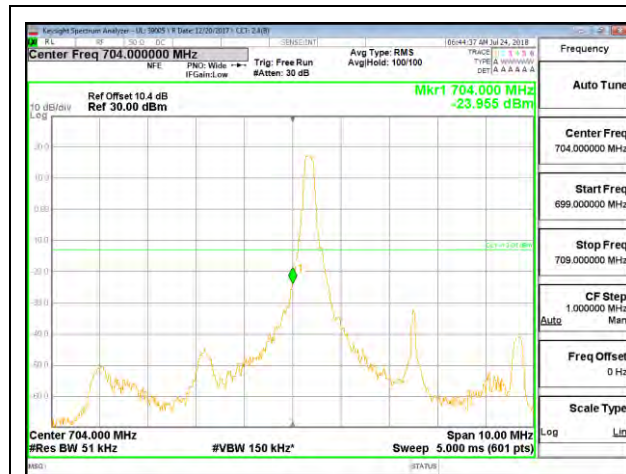
LTE B17 5MHz QPSK High Channel RB1-0



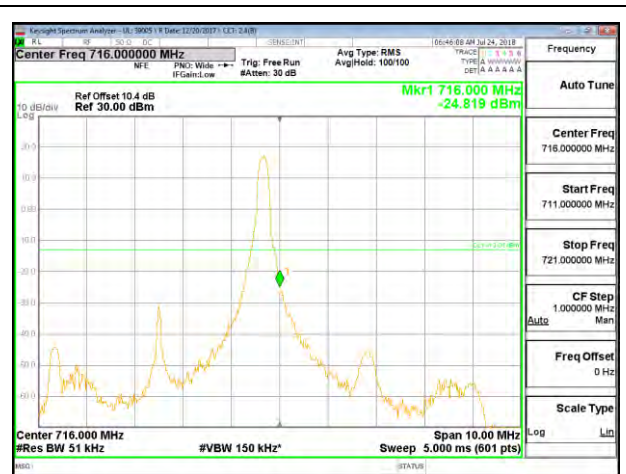
LTE B17 5MHz QPSK Low Channel RB25-0



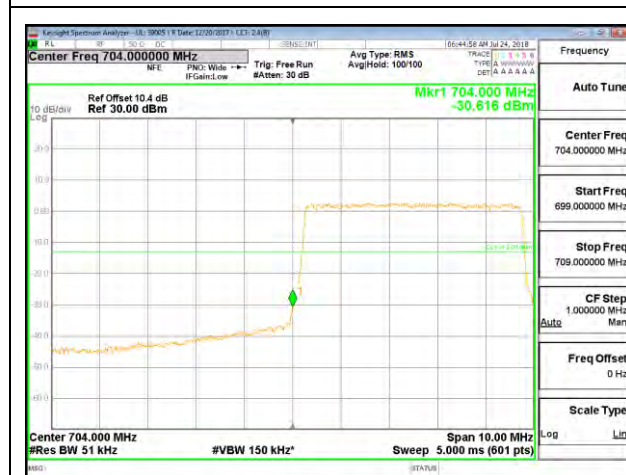
LTE B17 5MHz QPSK High Channel RB25-0



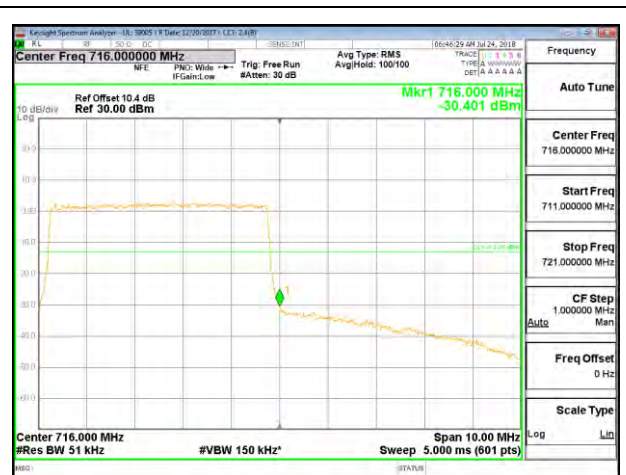
LTE B17 5MHz 16QAM Low Channel RB1-0



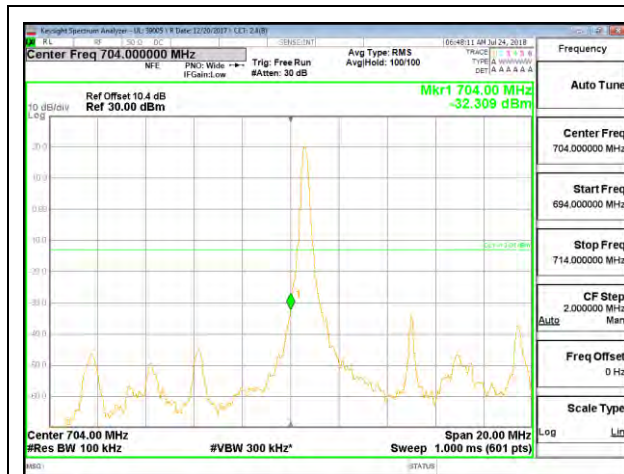
LTE B17 5MHz 16QAM High Channel RB1-0



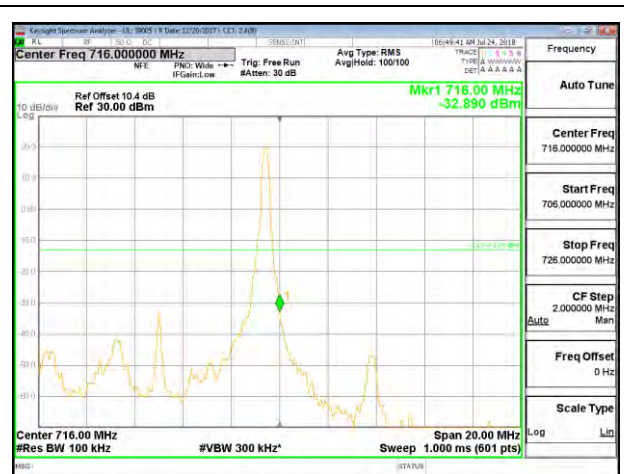
LTE B17 5MHz 16QAM Low Channel RB25-0



LTE B17 5MHz 16QAM High Channel RB25-0



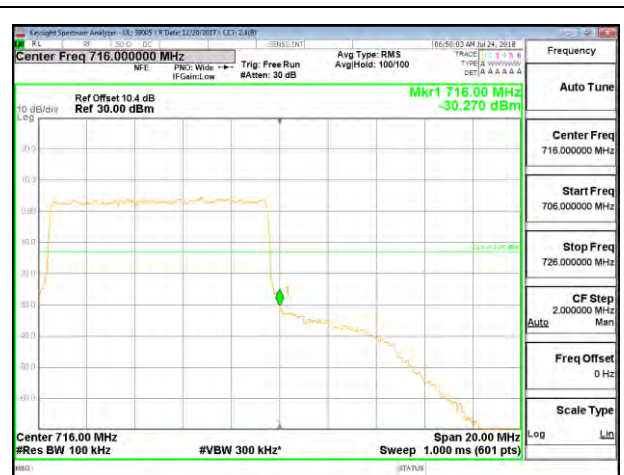
LTE B17 10MHz QPSK Low Channel RB1-0



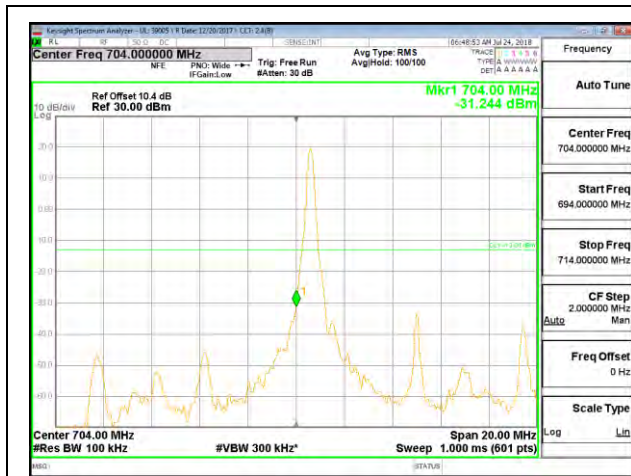
LTE B17 10MHz QPSK High Channel RB1-0



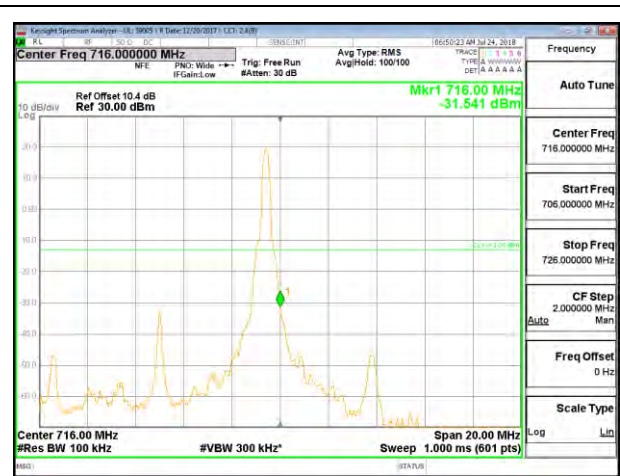
LTE B17 10MHz QPSK Low Channel RB50-0



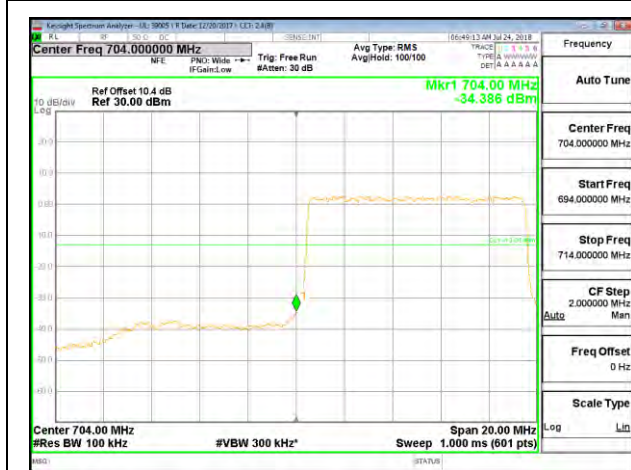
LTE B17 10MHz QPSK High Channel RB50-0



LTE B17 10MHz 16QAM Low Channel RB1-0



LTE B17 10MHz 16QAM High Channel RB1-0

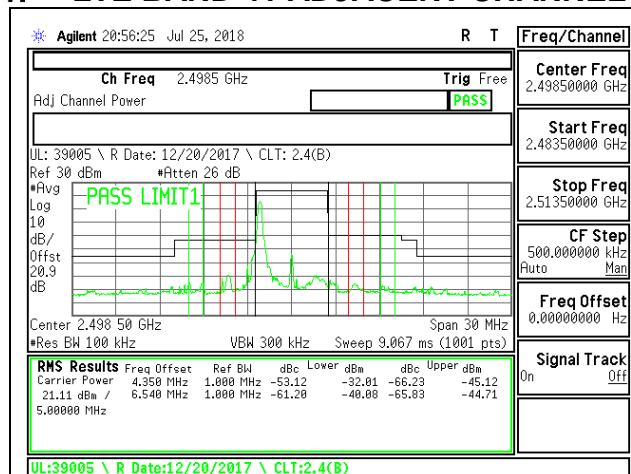


LTE B17 10MHz 16QAM Low Channel RB50-0

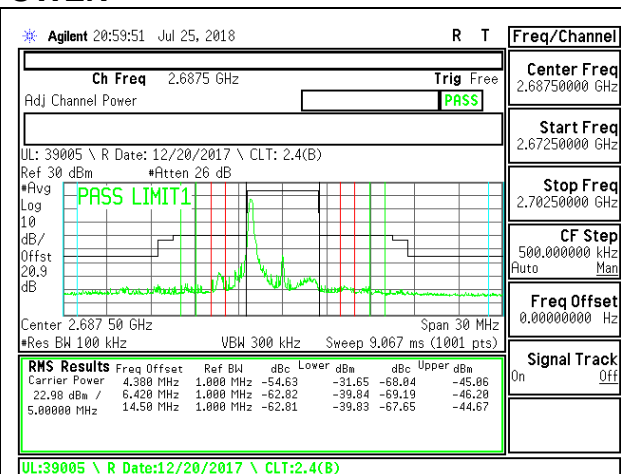


LTE B17 10MHz 16QAM High Channel RB50-0

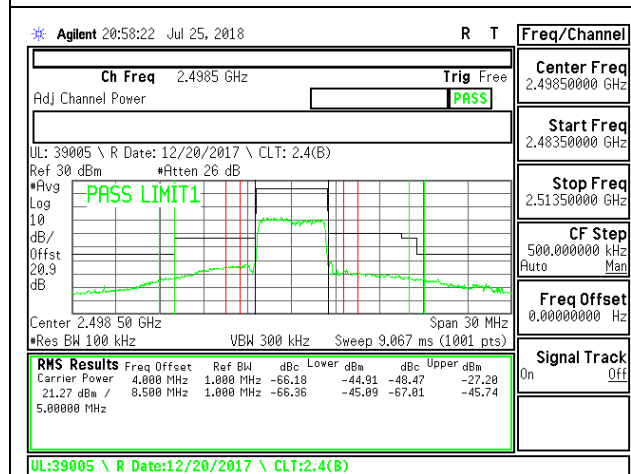
8.2.11. LTE BAND 41 ADJACENT CHANNEL POWER



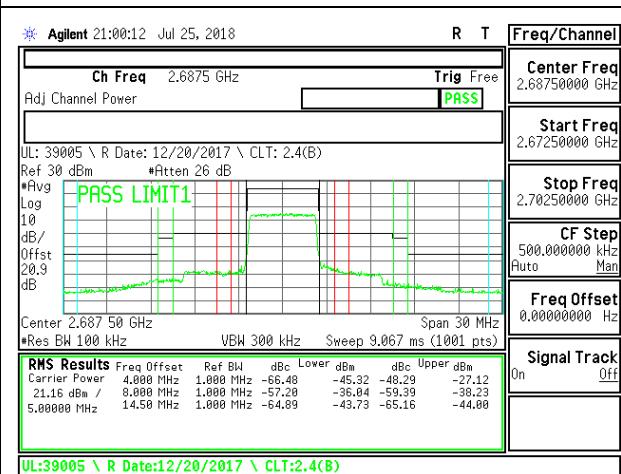
LTE B41 5MHz QPSK Low Channel RB1-0



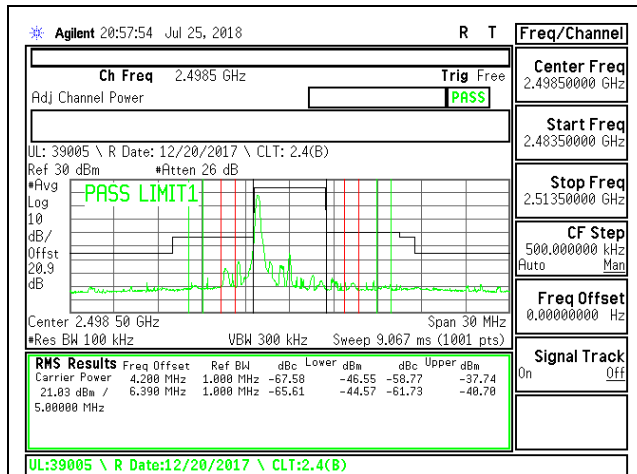
LTE B41 5MHz QPSK High Channel RB1-0



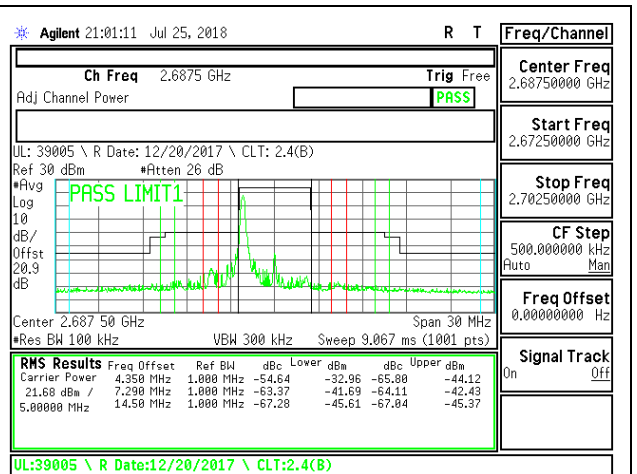
LTE B41 5MHz QPSK Low Channel RB25-0



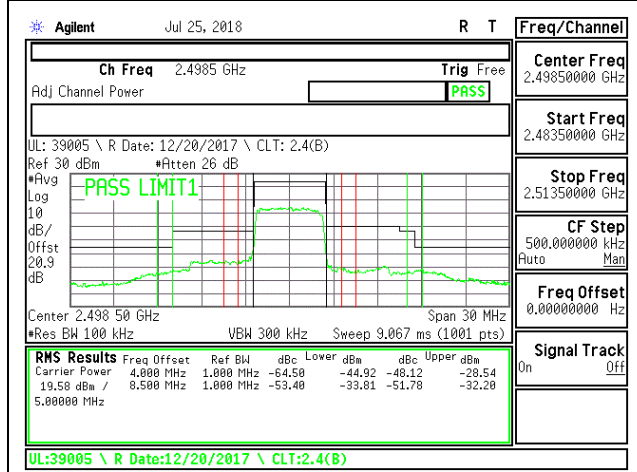
LTE B41 5MHz QPSK High Channel RB25-0



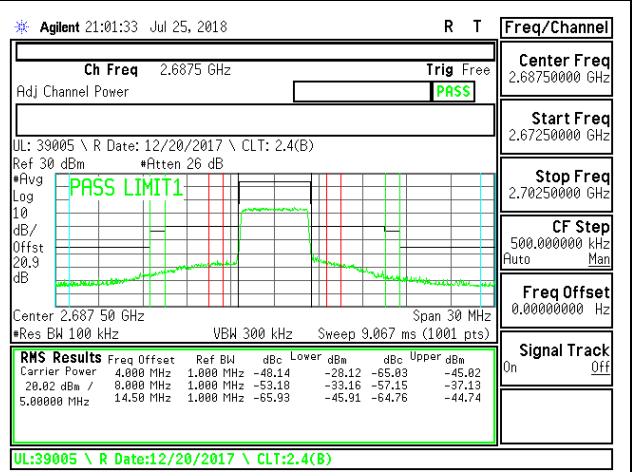
LTE B41 5MHz 16QAM Low Channel RB1-0



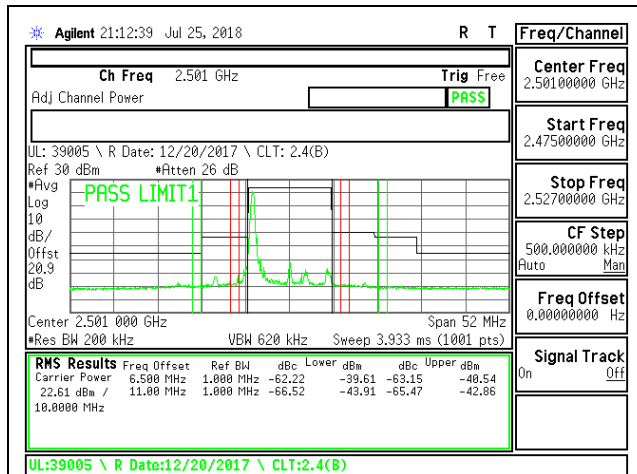
LTE B41 5MHz 16QAM High Channel RB1-0



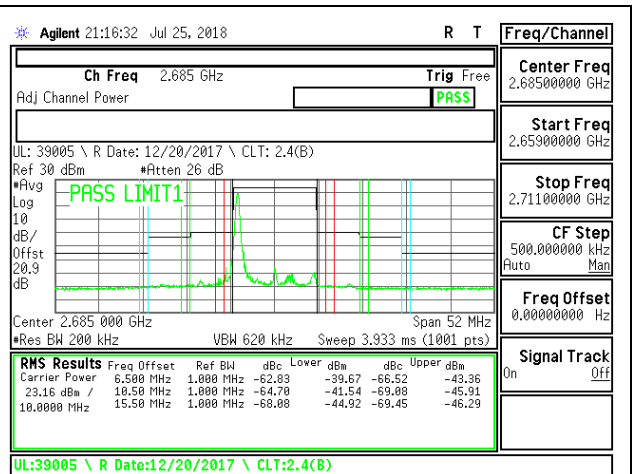
LTE B41 5MHz 16QAM Low Channel RB25-0



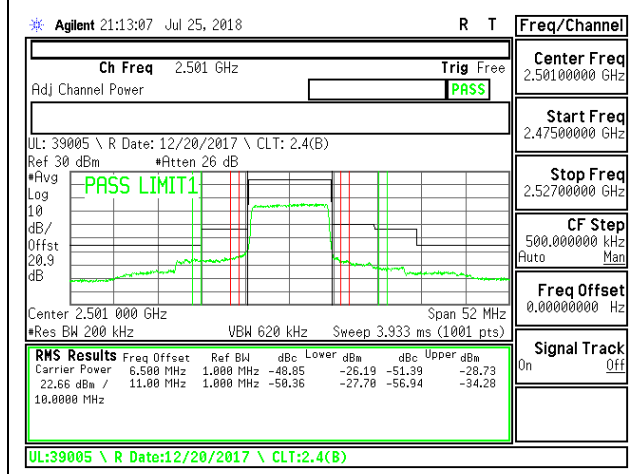
LTE B41 5MHz 16QAM High Channel RB25-0



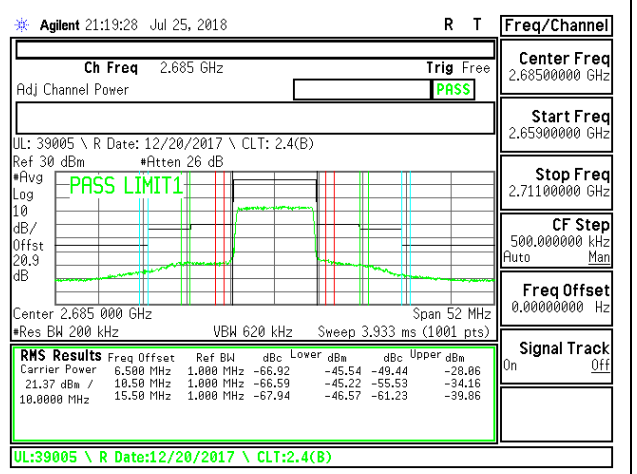
LTE B41 10MHz QPSK Low Channel RB1-0



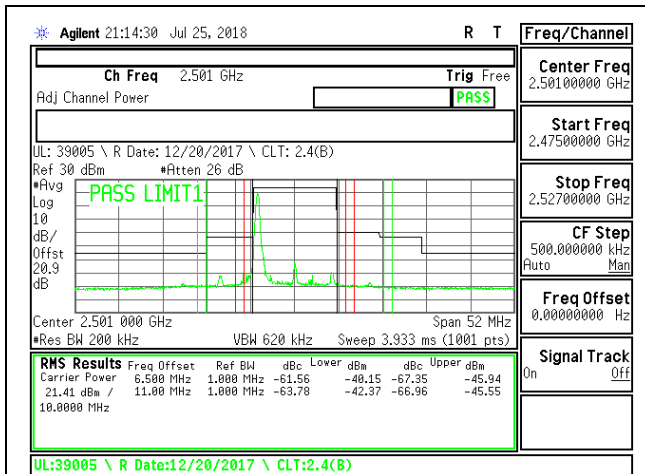
LTE B41 10MHz QPSK High Channel RB1-0



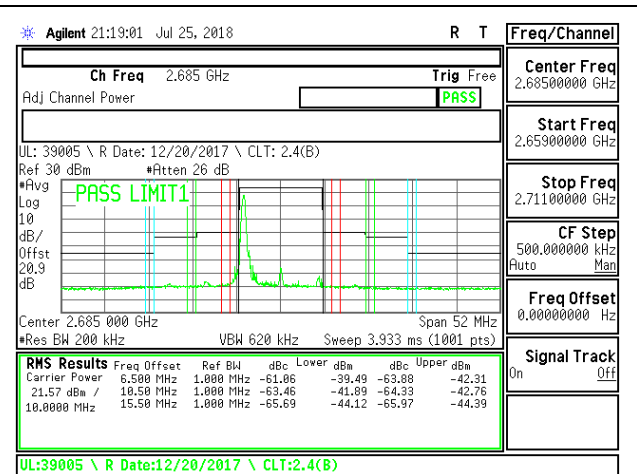
LTE B41 10MHz QPSK Low Channel RB50-0



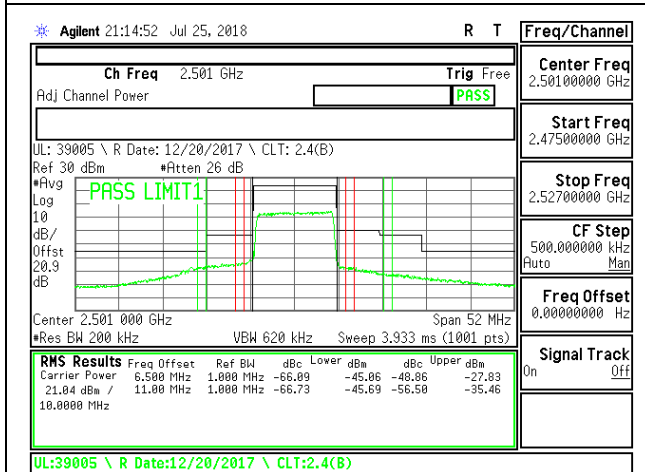
LTE B41 10MHz QPSK High Channel RB50-0



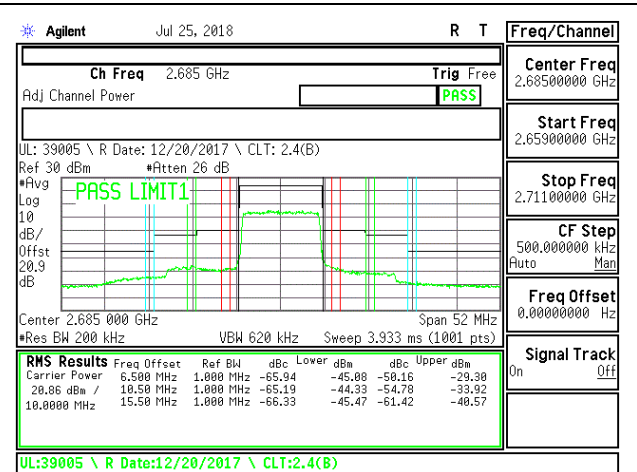
LTE B41 10MHz 16QAM Low Channel RB1-0



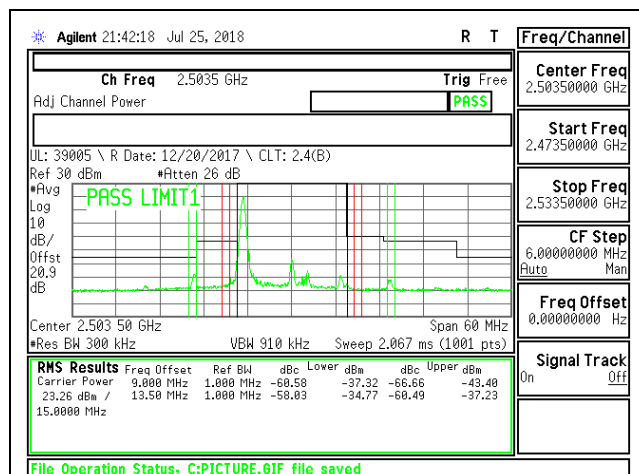
LTE B41 10MHz 16QAM High Channel RB1-0



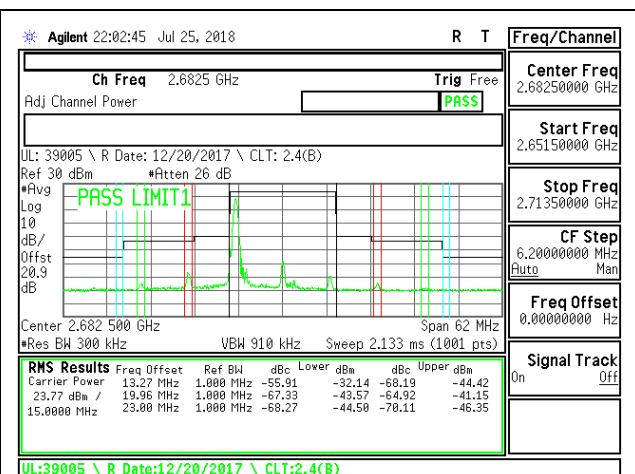
LTE B41 10MHz 16QAM Low Channel RB50-0



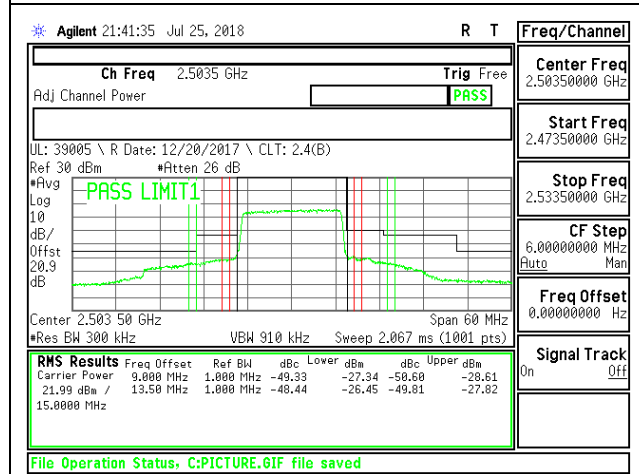
LTE B41 10MHz 16QAM High Channel RB50-0



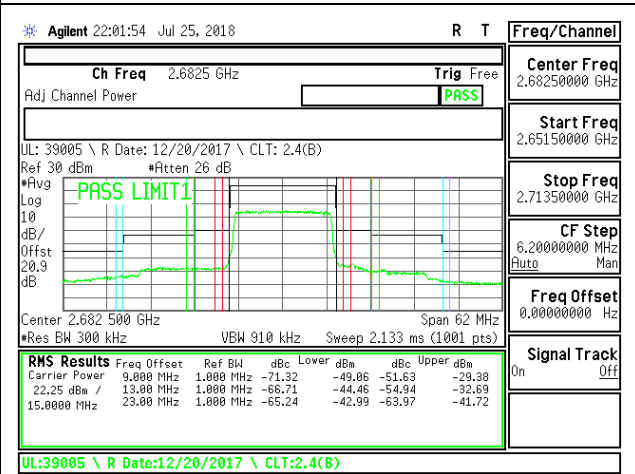
LTE B41 15MHz QPSK Low Channel RB1-0



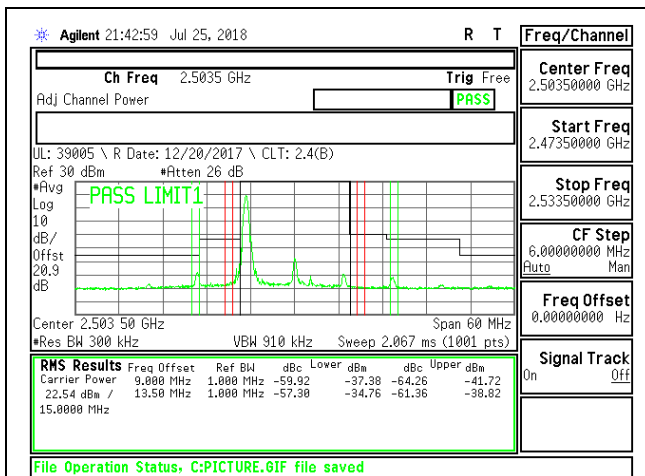
LTE B41 15MHz QPSK High Channel RB1-0



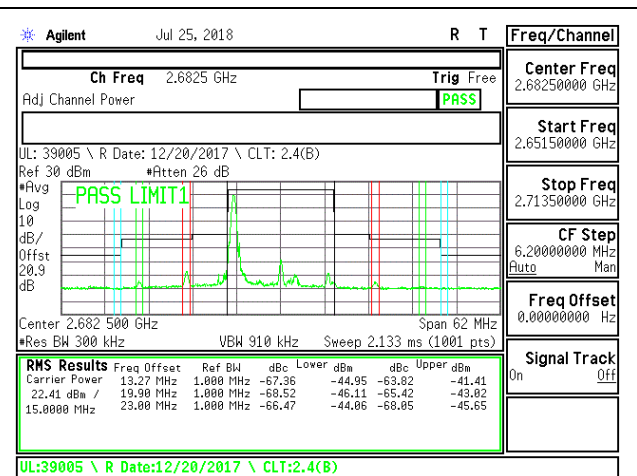
LTE B41 15MHz QPSK Low Channel RB75-0



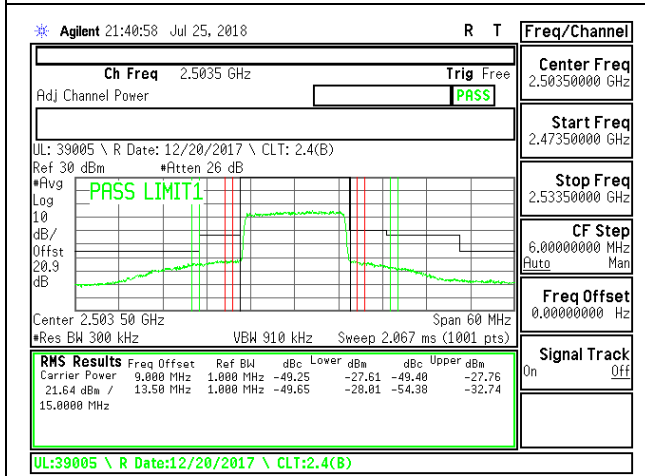
LTE B41 15MHz QPSK High Channel RB75-0



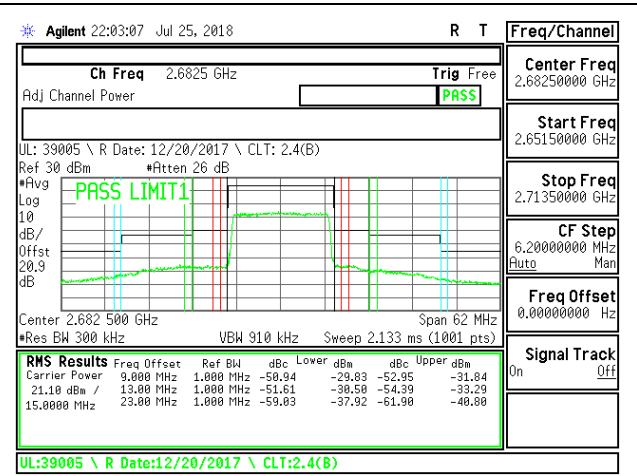
LTE B41 15MHz 16QAM Low Channel RB1-0



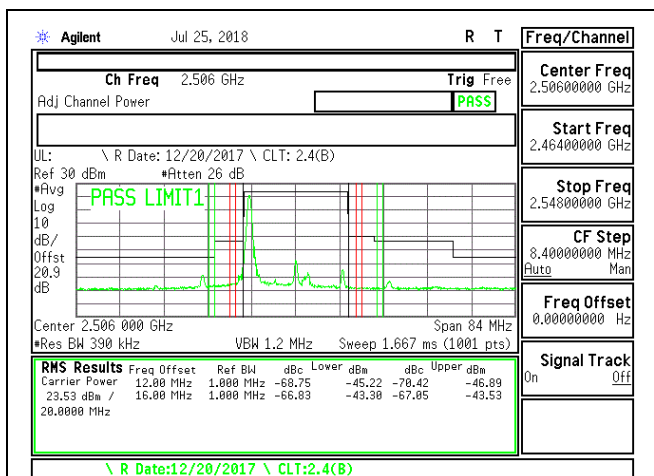
LTE B41 15MHz 16QAM High Channel RB1-0



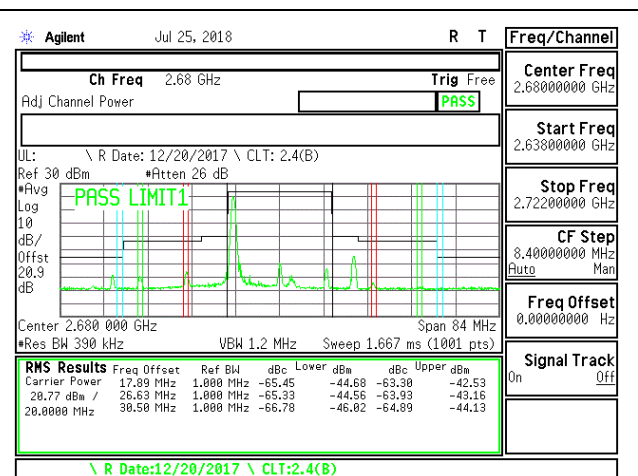
LTE B41 15MHz 16QAM Low Channel RB75-0



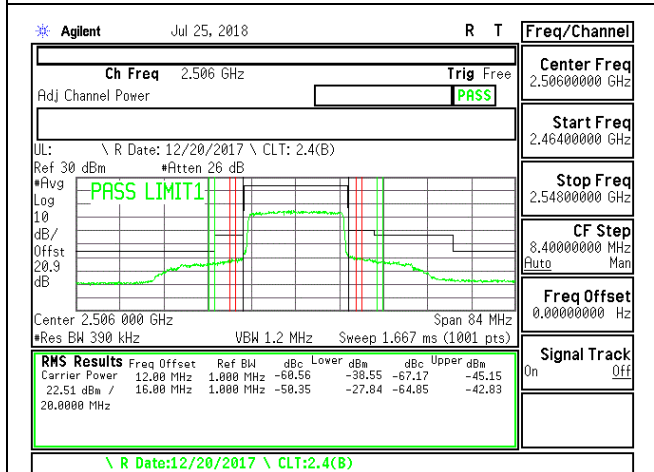
LTE B41 15MHz 16QAM High Channel RB75-0



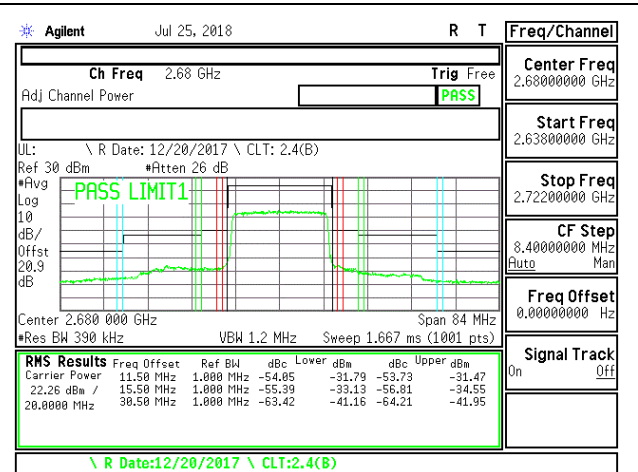
LTE B41 20MHz QPSK Low Channel RB1-0



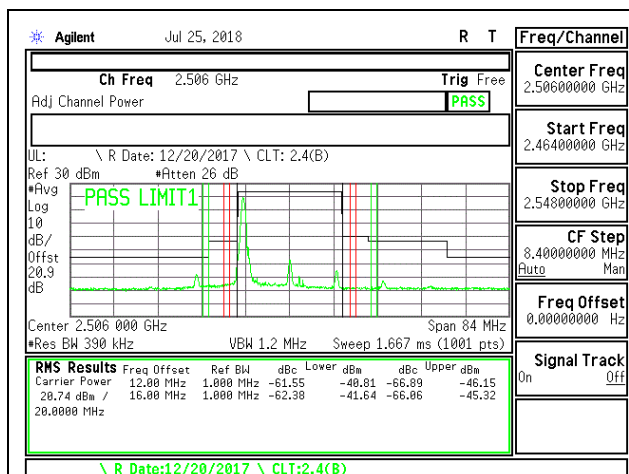
LTE B41 20MHz QPSK High Channel RB1-0



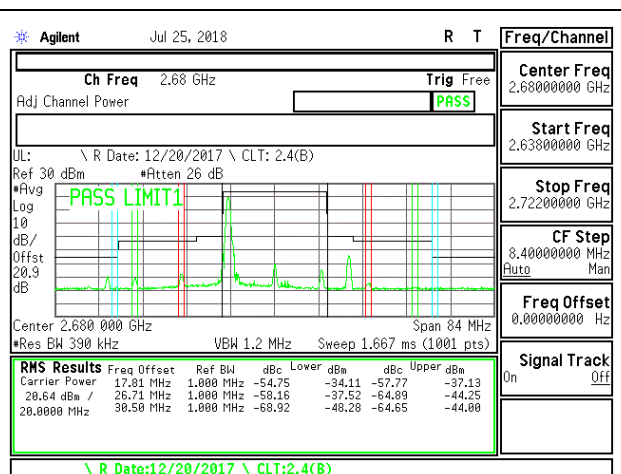
LTE B41 20MHz QPSK Low Channel RB100-0



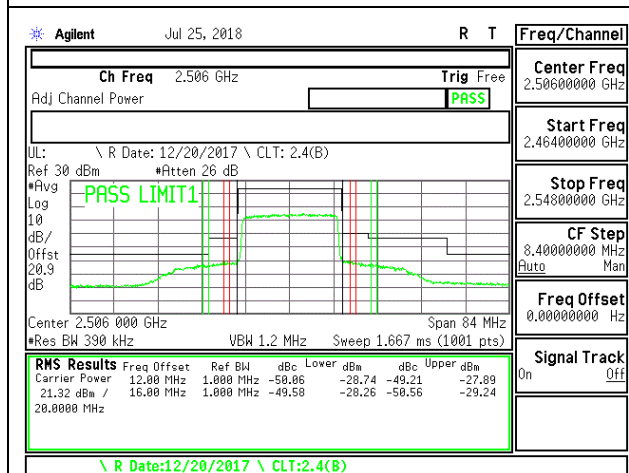
LTE B41 20MHz QPSK High Channel RB100-0



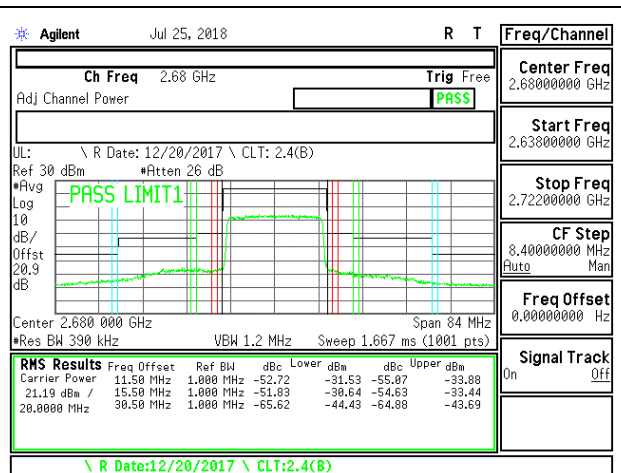
LTE B41 20MHz 16QAM Low Channel RB1-0



LTE B41 20MHz 16QAM High Channel RB1-0



LTE B41 20MHz 16QAM Low Channel RB100-0



LTE B41 20MHz 16QAM High Channel RB100-0

8.3. OUT OF BAND EMISSIONS

RULE PART(S)

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

LIMITS

FCC: §22.917, §24.238, §27.53 (c), (g), (h)

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

FCC: §27.53 (m) (Band 7, 41)

The minimum permissible attenuation level of any spurious emissions is $55 + 10 \log (P)$ dB where transmitting power (P) in Watts.

TEST PROCEDURE

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

For each out of band emissions measurement:

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

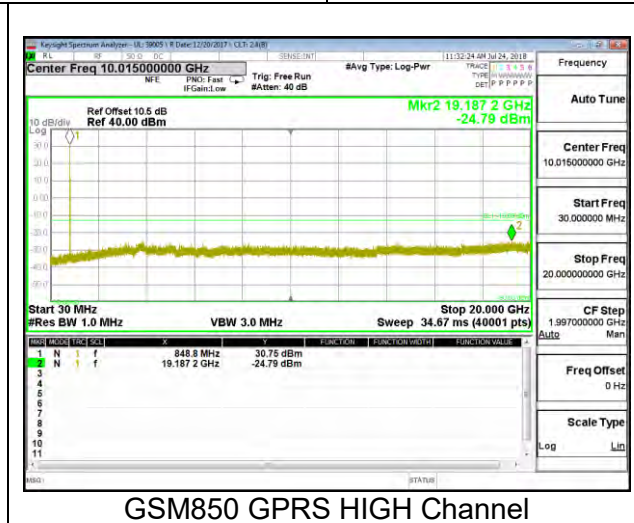
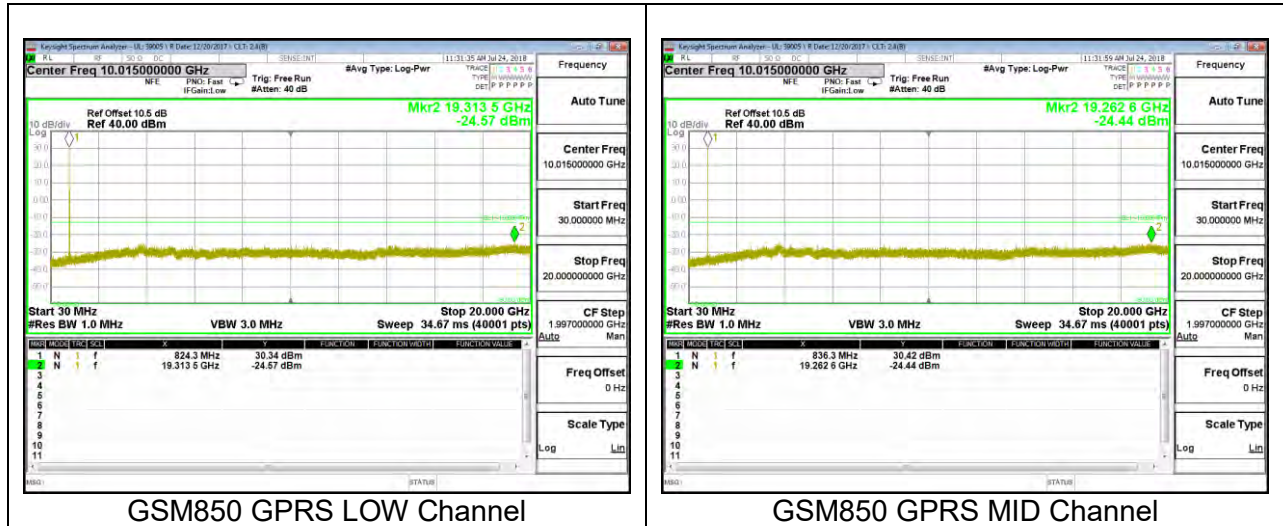
MODES TESTED

- GSM 850
- GSM 1900
- WCDMA Band 5
- WCDMA Band 2
- WCDMA Band 4
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 13
- LTE Band 17
- LTE Band 41

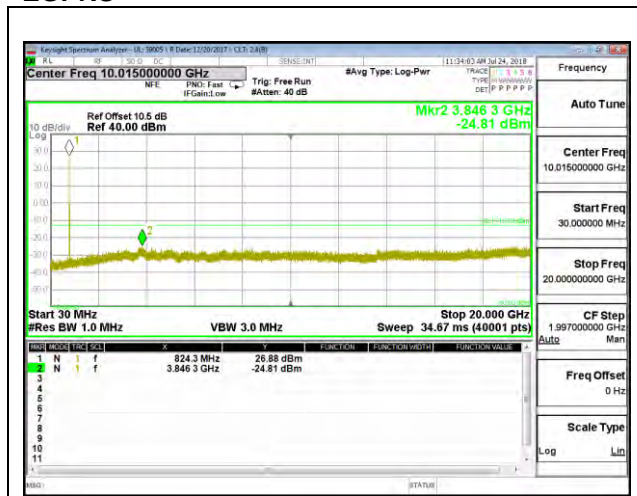
RESULTS

8.3.1. GSM GSM850

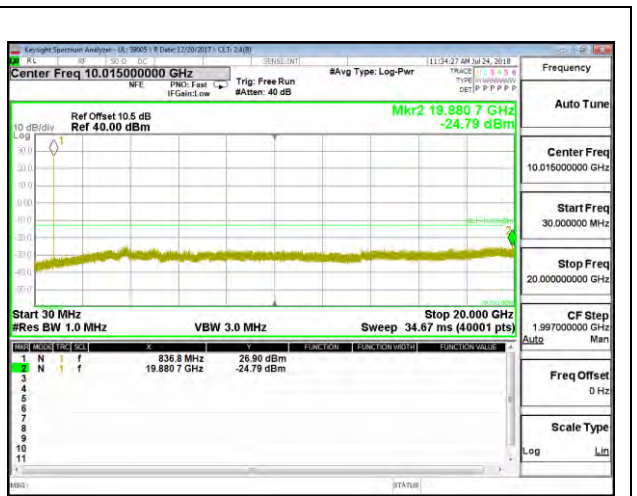
GPRS



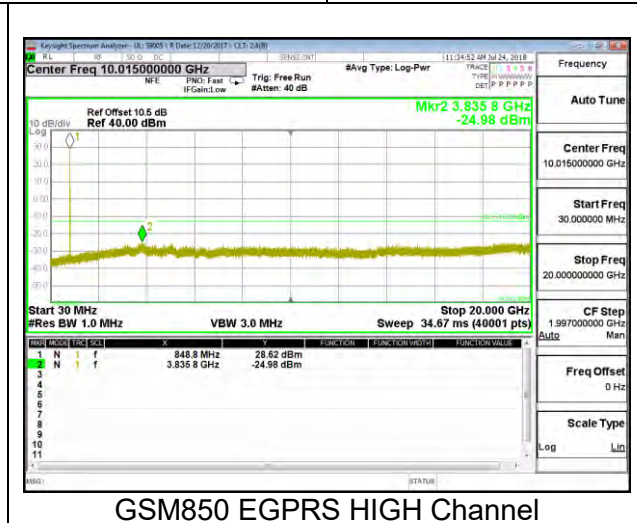
EGPRS



GSM850 EGPRS LOW Channel



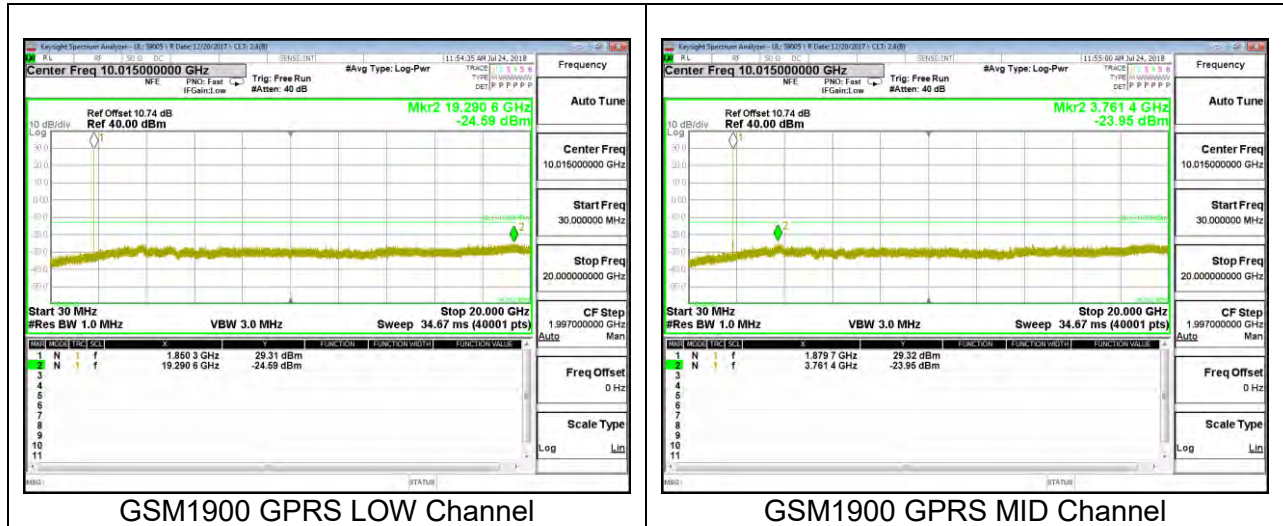
GSM850 EGPRS MID Channel



GSM850 EGPRS HIGH Channel

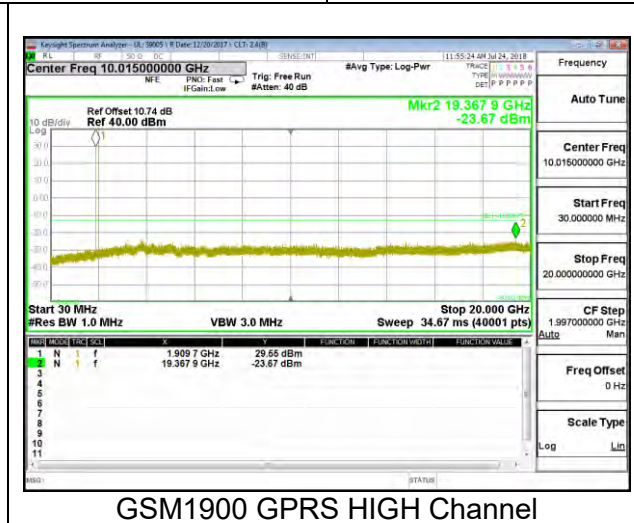
8.3.2. GSM GSM1900

GPRS



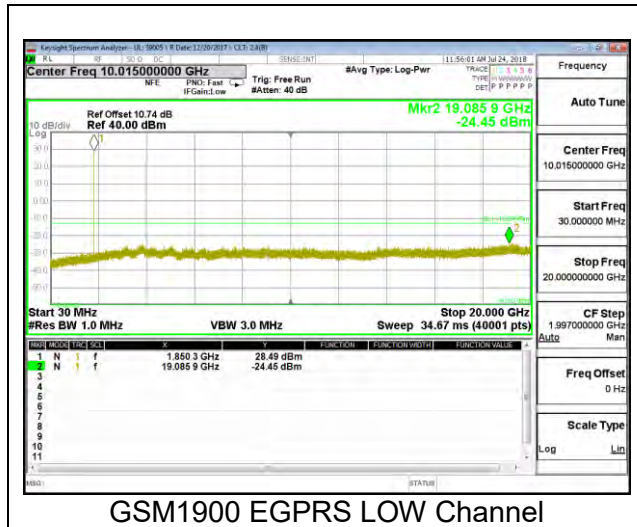
GSM1900 GPRS LOW Channel

GSM1900 GPRS MID Channel

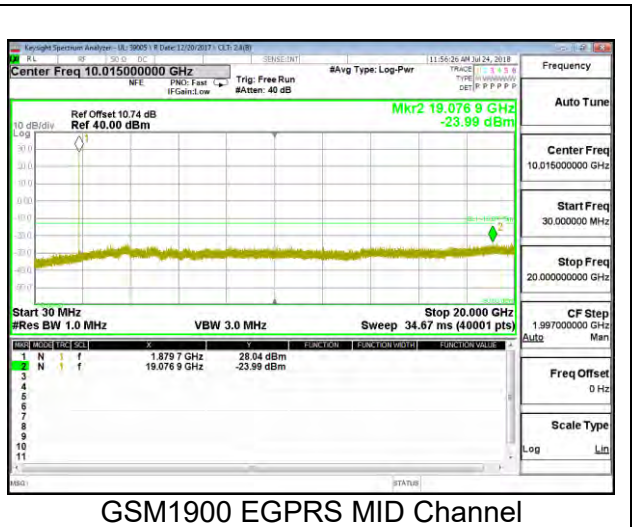


GSM1900 GPRS HIGH Channel

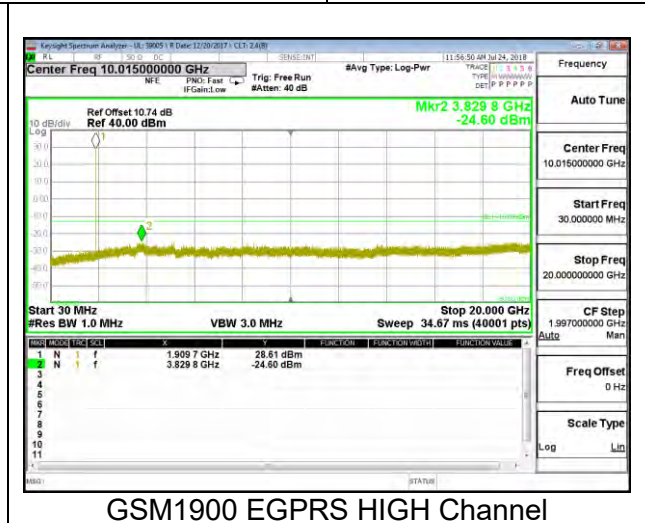
EGPRS



GSM1900 EGPRS LOW Channel



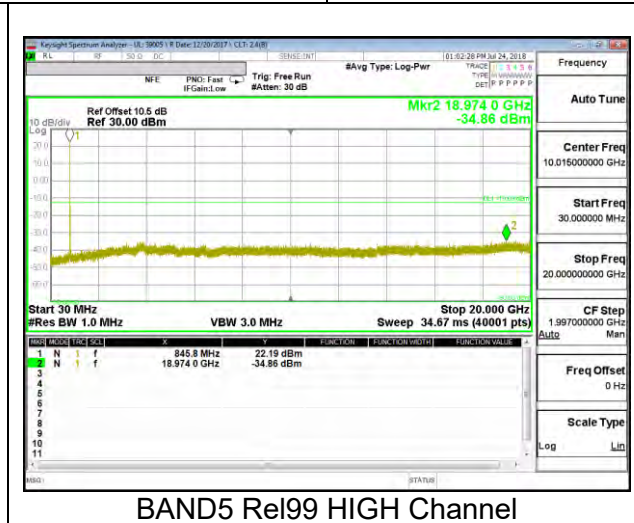
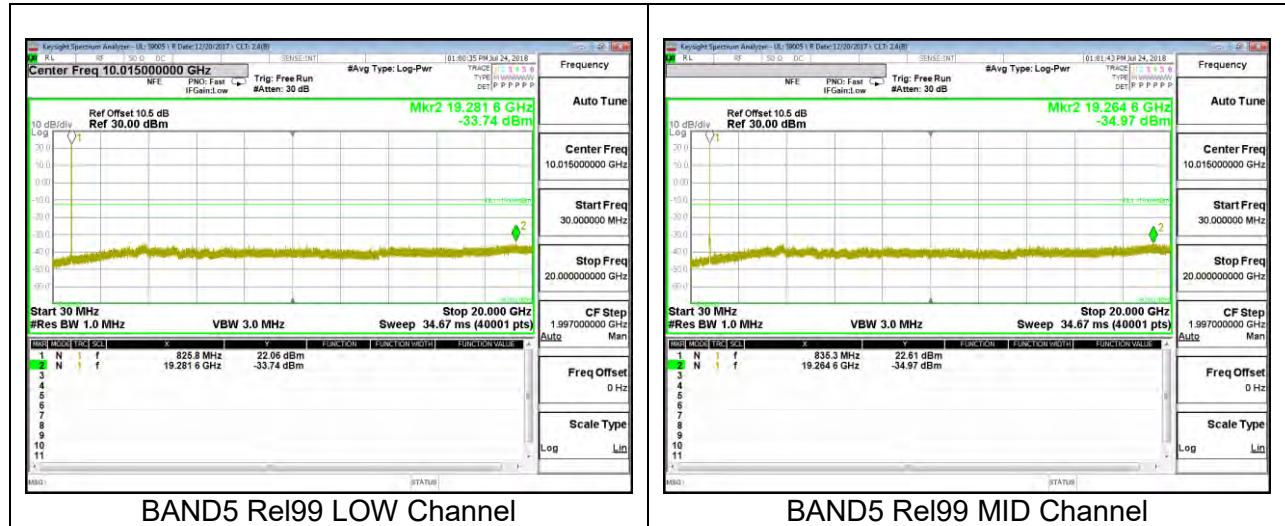
GSM1900 EGPRS MID Channel



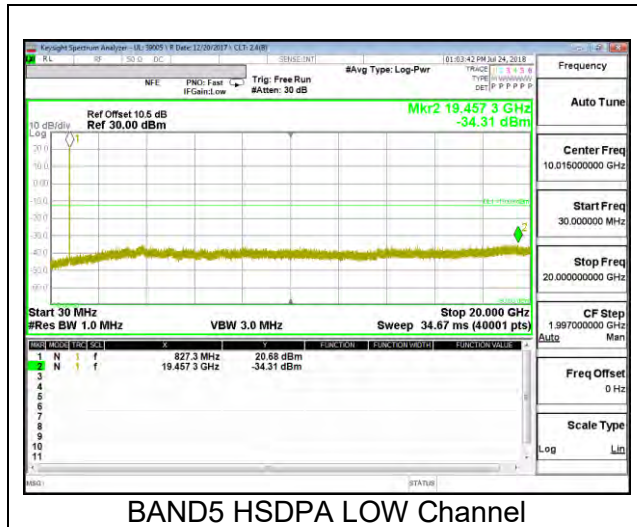
GSM1900 EGPRS HIGH Channel

8.3.3. WCDMA BAND5

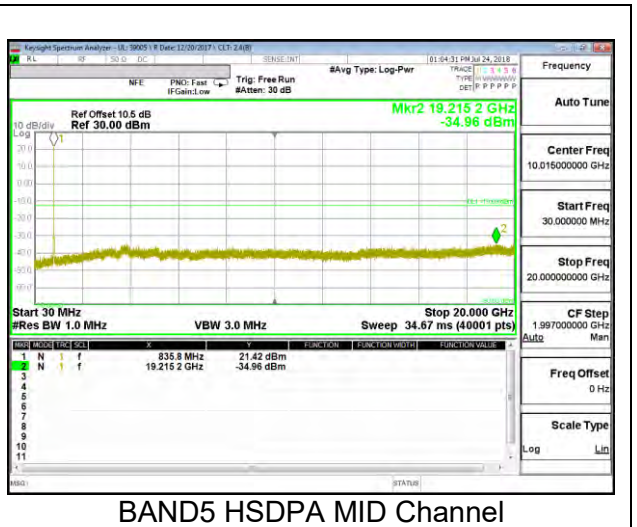
Rel99



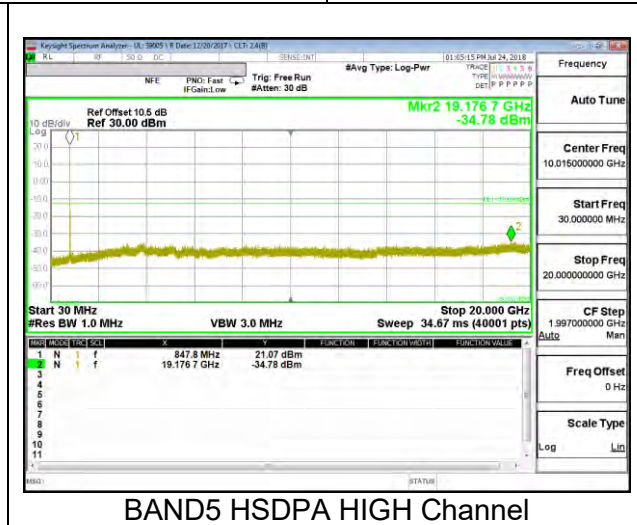
HSDPA



BAND5 HSDPA LOW Channel



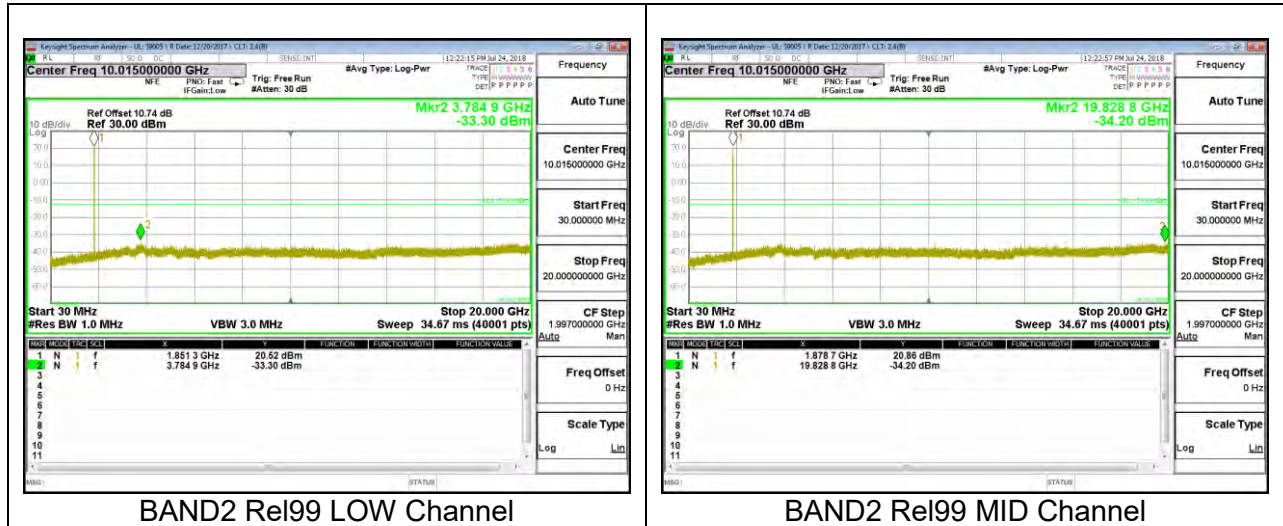
BAND5 HSDPA MID Channel



BAND5 HSDPA HIGH Channel

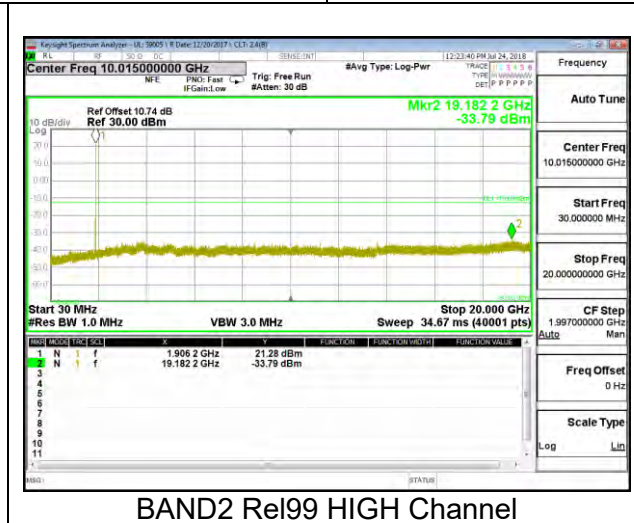
8.3.4. WCDMA BAND2

Rel99



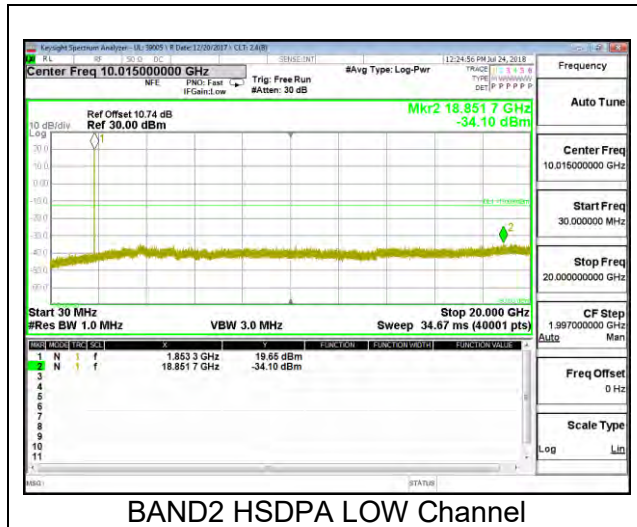
BAND2 Rel99 LOW Channel

BAND2 Rel99 MID Channel

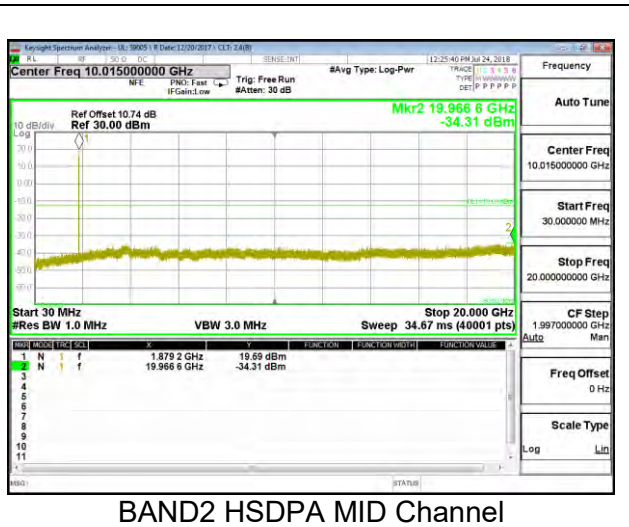


BAND2 Rel99 HIGH Channel

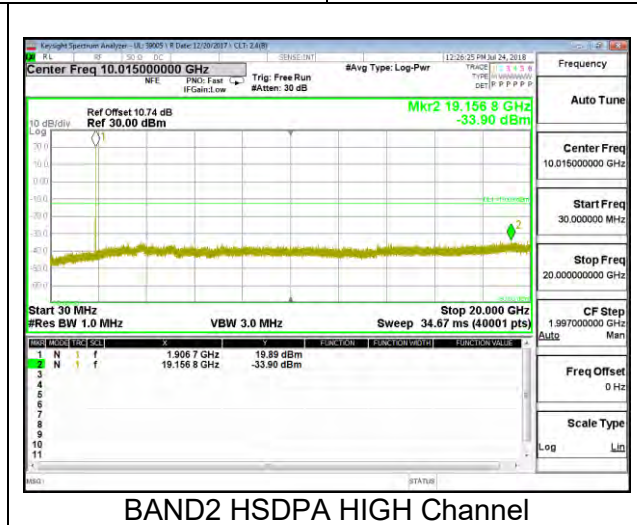
HSDPA



BAND2 HSDPA LOW Channel



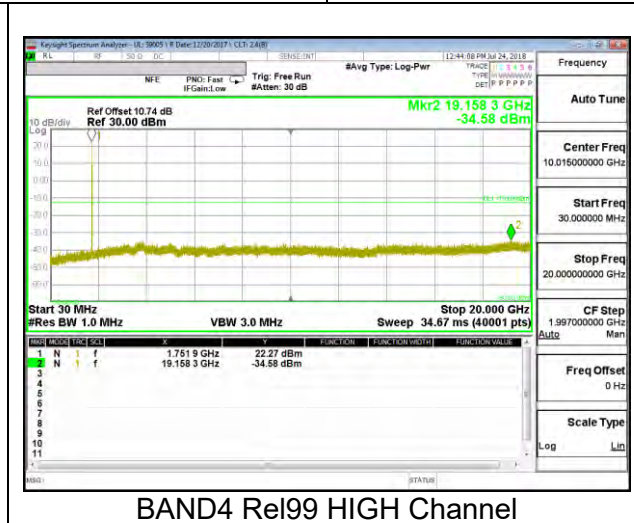
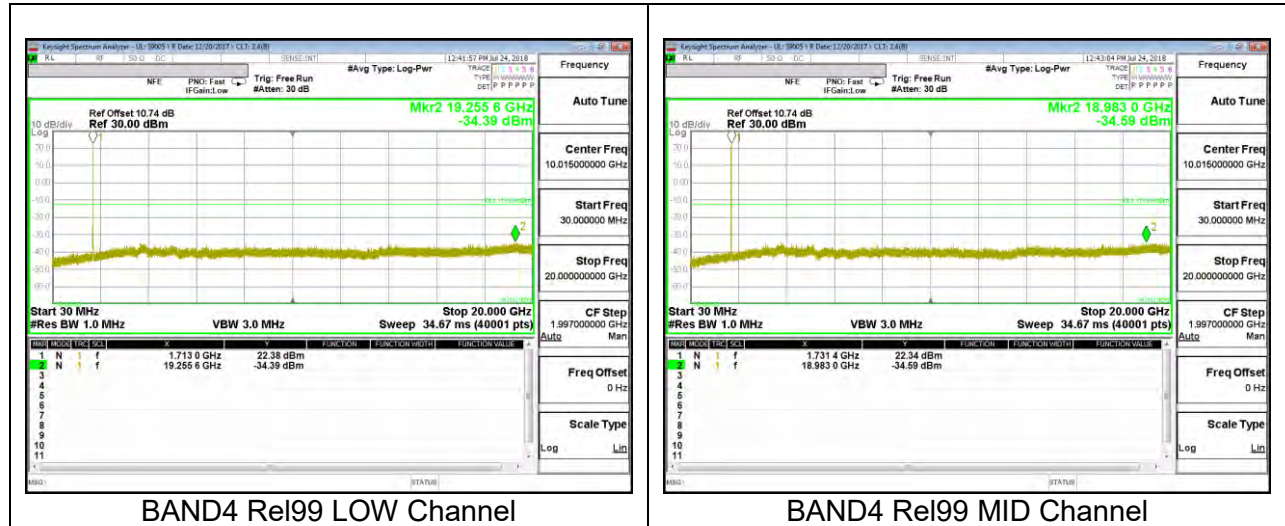
BAND2 HSDPA MID Channel



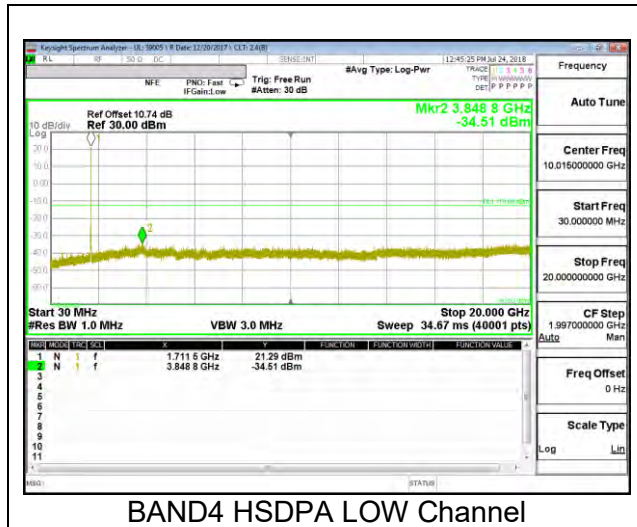
BAND2 HSDPA HIGH Channel

8.3.5. WCDMA BAND4

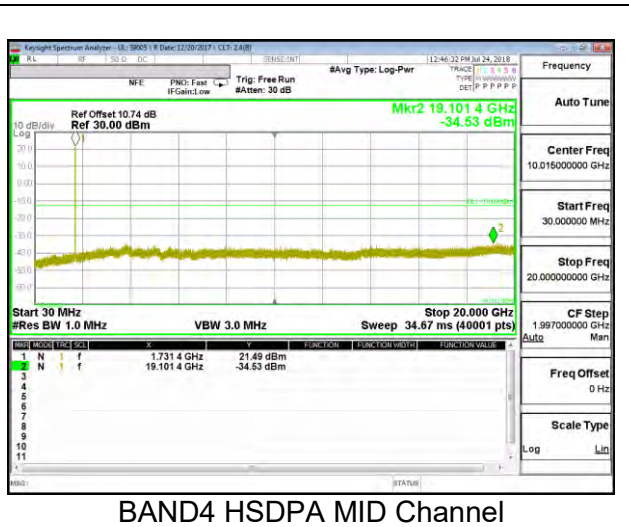
Rel99



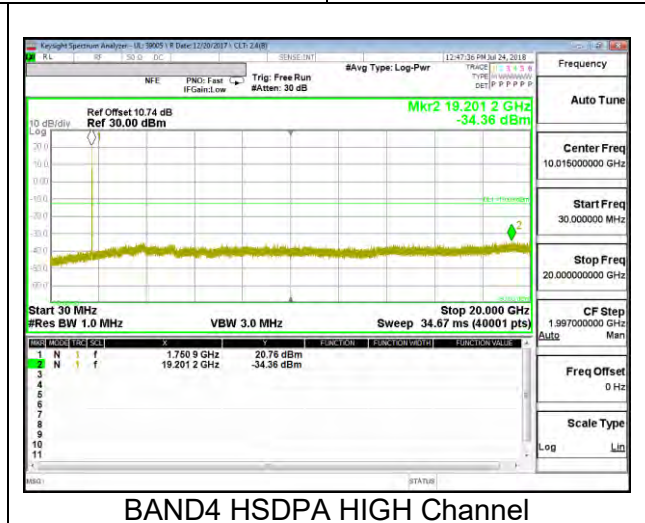
HSDPA



BAND4 HSDPA LOW Channel

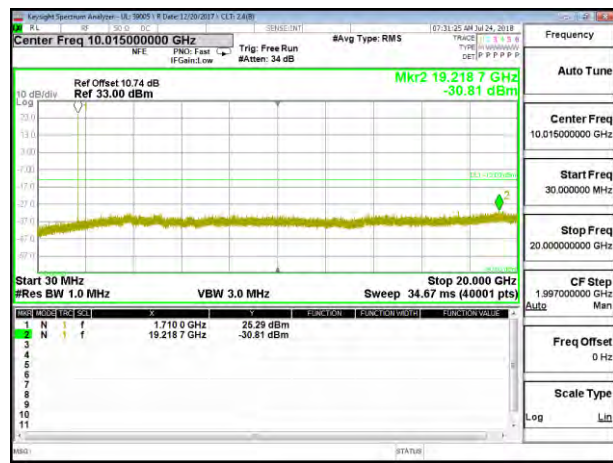


BAND4 HSDPA MID Channel

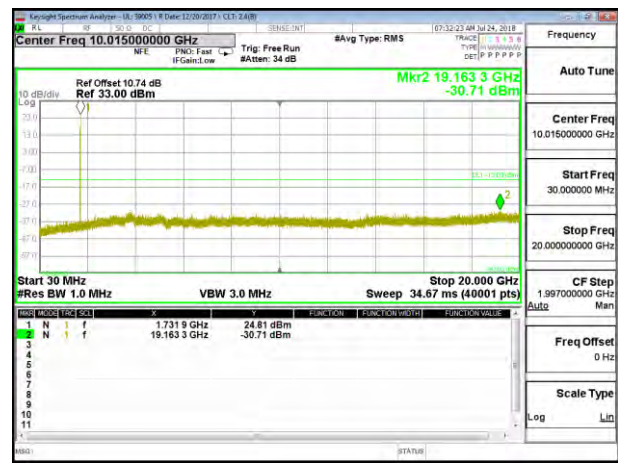


BAND4 HSDPA HIGH Channel

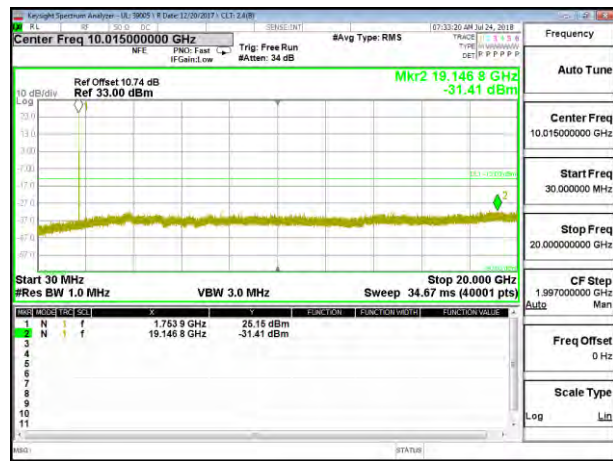
8.3.6. LTE BAND 4



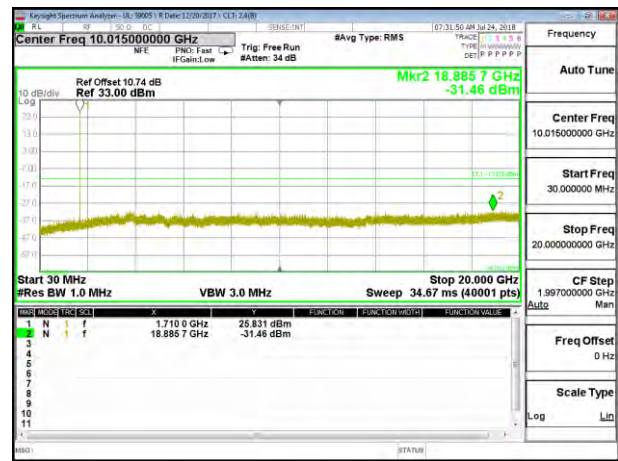
LTE B4 1.4MHz QPSK Low Channel RB1-0



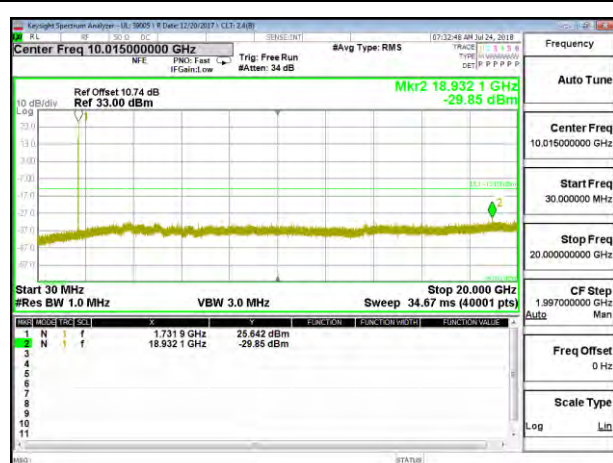
LTE B4 1.4MHz QPSK Mid Channel RB1-0



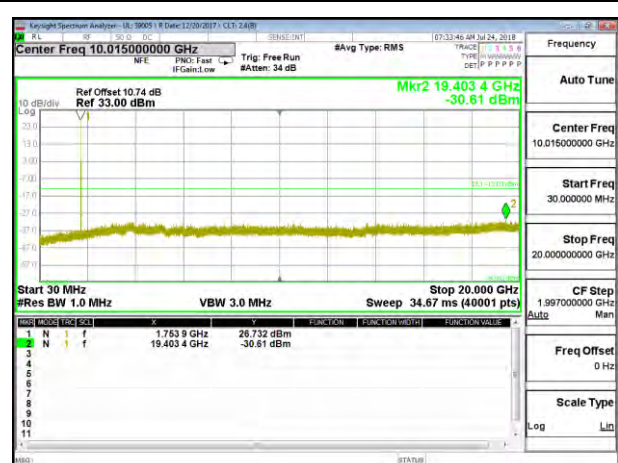
LTE B4 1.4MHz QPSK High Channel RB1-0



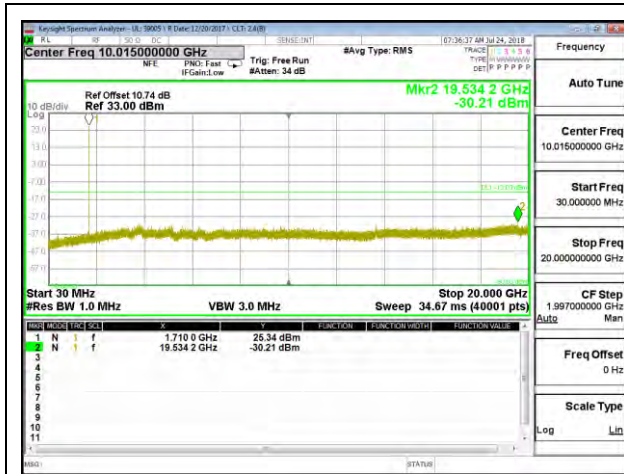
LTE B4 1.4MHz 16QAM Low Channel RB1-0



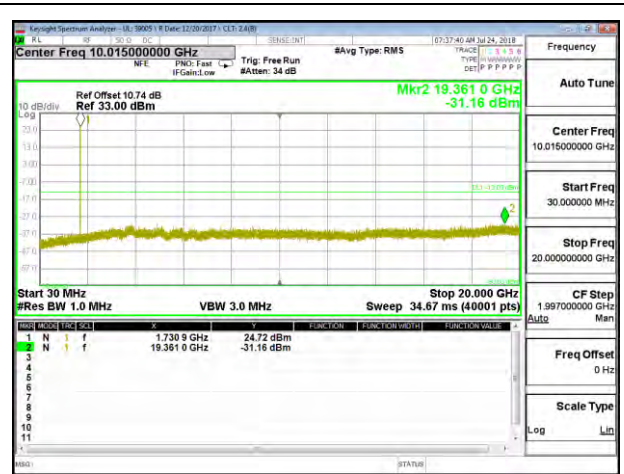
LTE B4 1.4MHz 16QAM Mid Channel RB1-0



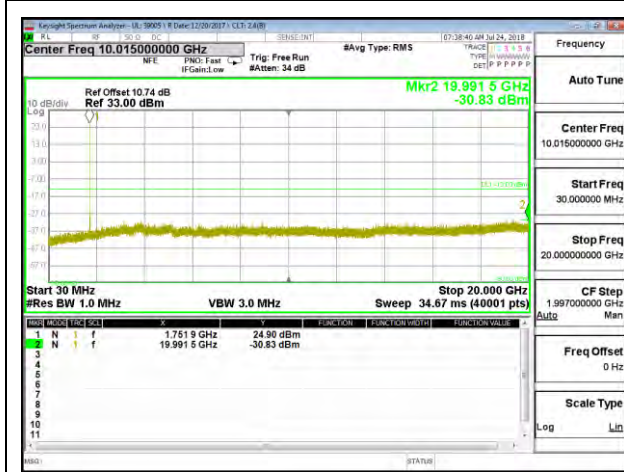
LTE B4 1.4MHz 16QAM High Channel RB1-0



LTE B4 3MHz QPSK Low Channel RB1-0



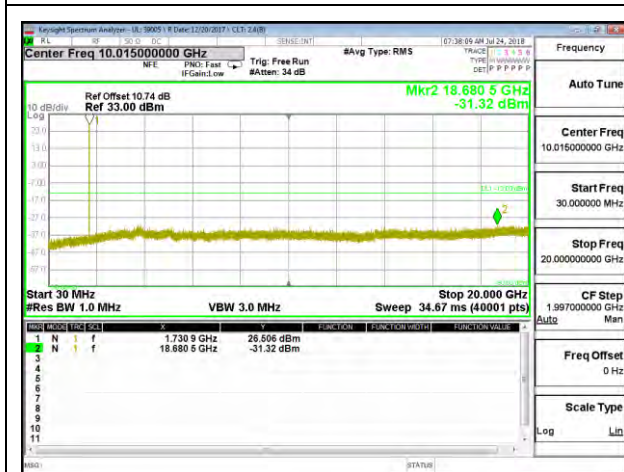
LTE B4 3MHz QPSK Mid Channel RB1-0



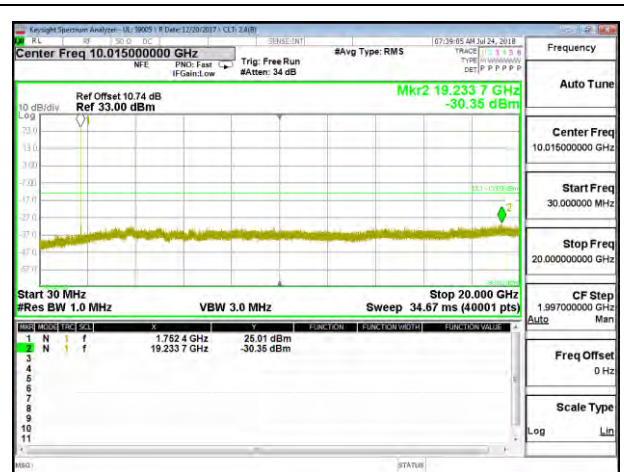
LTE B4 3MHz QPSK High Channel RB1-0



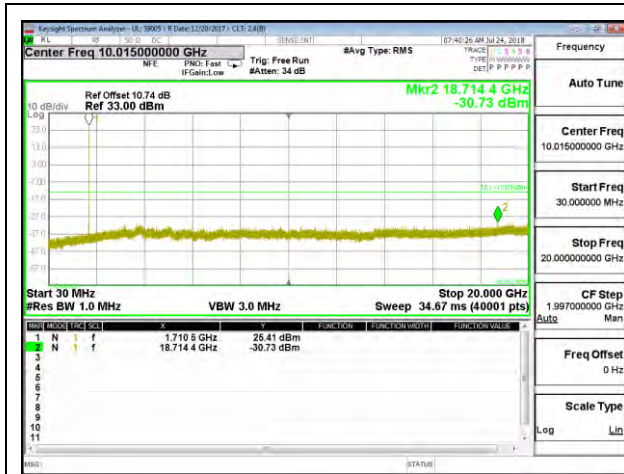
LTE B4 3MHz 16QAM Low Channel RB1-0



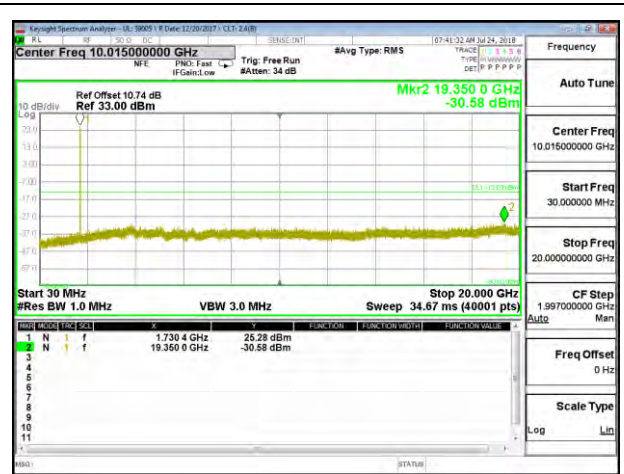
LTE B4 3MHz 16QAM Mid Channel RB1-0



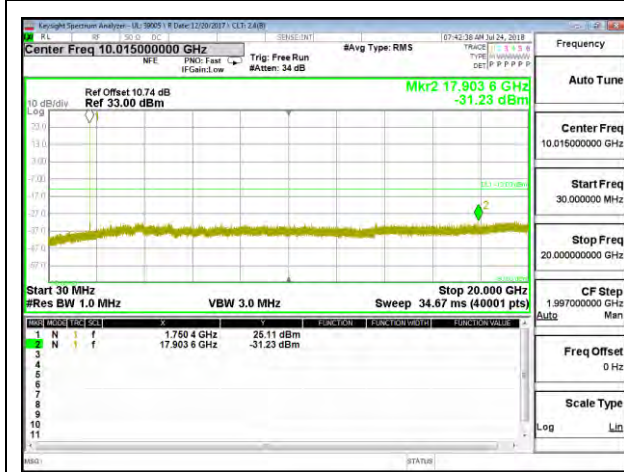
LTE B4 3MHz 16QAM High Channel RB1-0



LTE B4 5MHz QPSK Low Channel RB1-0



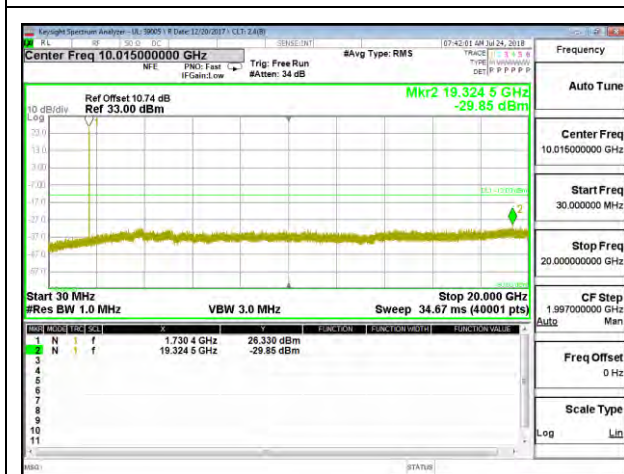
LTE B4 5MHz QPSK Mid Channel RB1-0



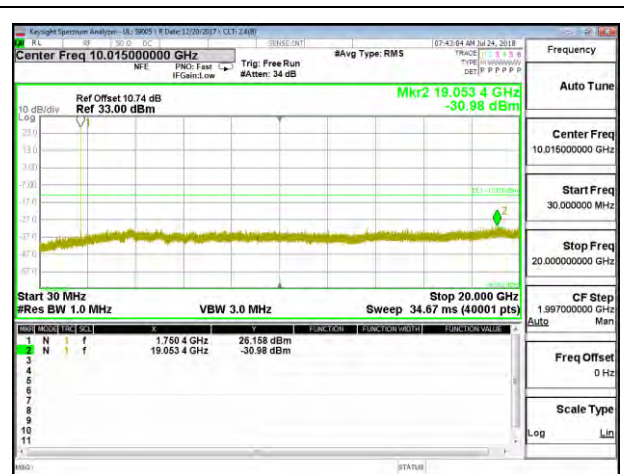
LTE B4 5MHz QPSK High Channel RB1-0



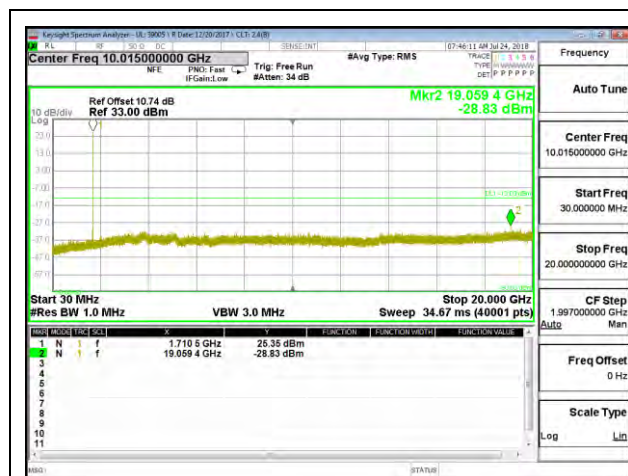
LTE B4 5MHz 16QAM Low Channel RB1-0



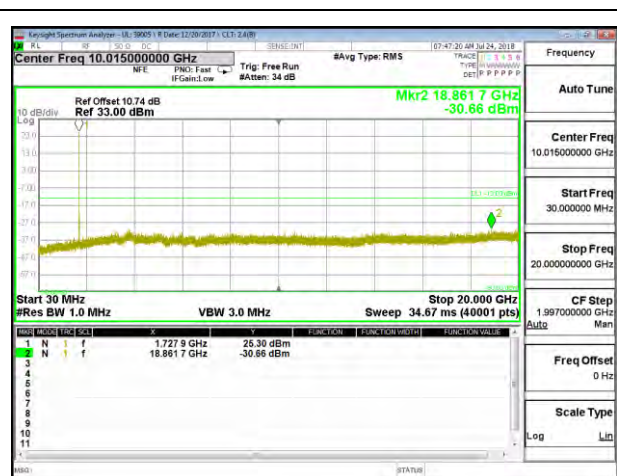
LTE B4 5MHz 16QAM Mid Channel RB1-0



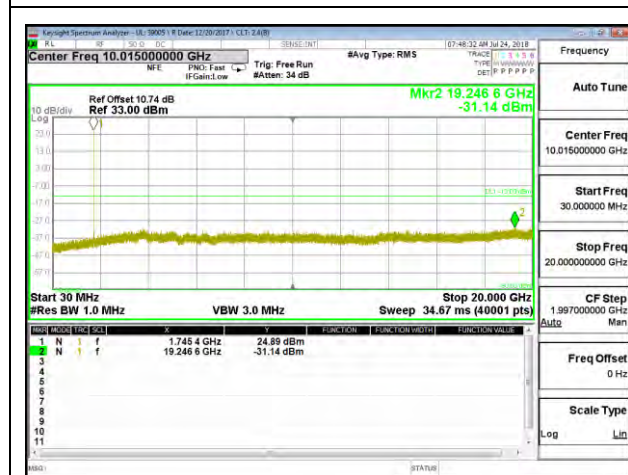
LTE B4 5MHz 16QAM High Channel RB1-0



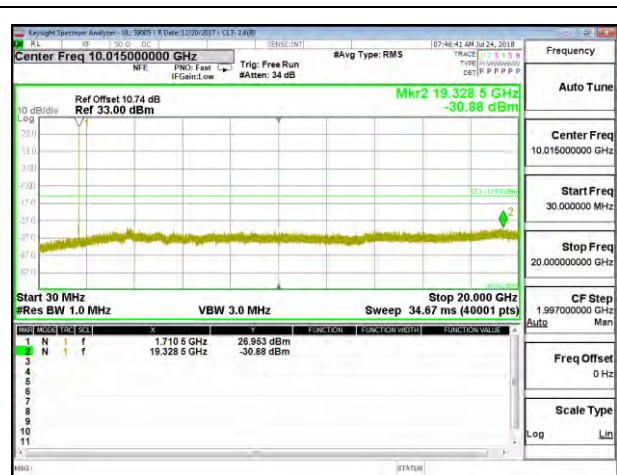
LTE B4 10MHz QPSK Low Channel RB1-0



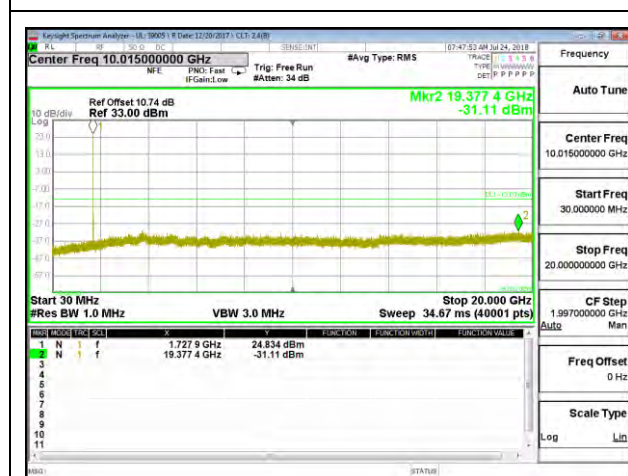
LTE B4 10MHz QPSK Mid Channel RB1-0



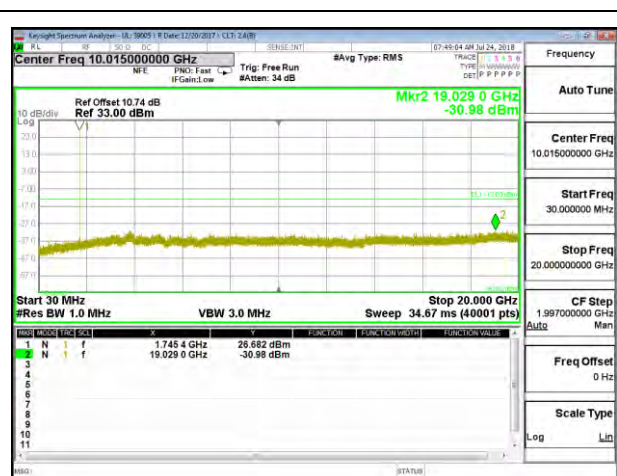
LTE B4 10MHz QPSK High Channel RB1-0



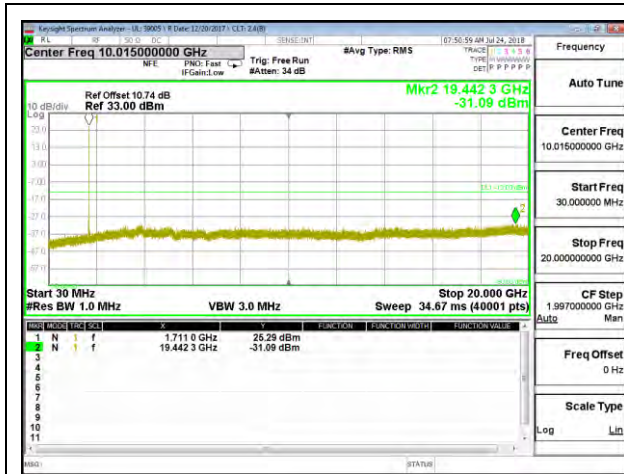
LTE B4 10MHz 16QAM Low Channel RB1-0



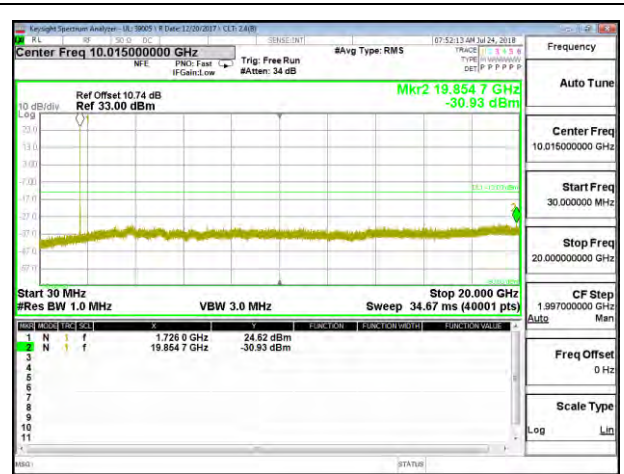
LTE B4 10MHz 16QAM Mid Channel RB1-0



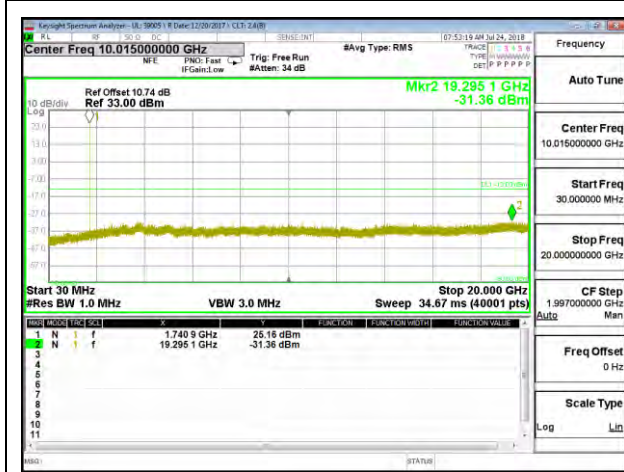
LTE B4 10MHz 16QAM High Channel RB1-0



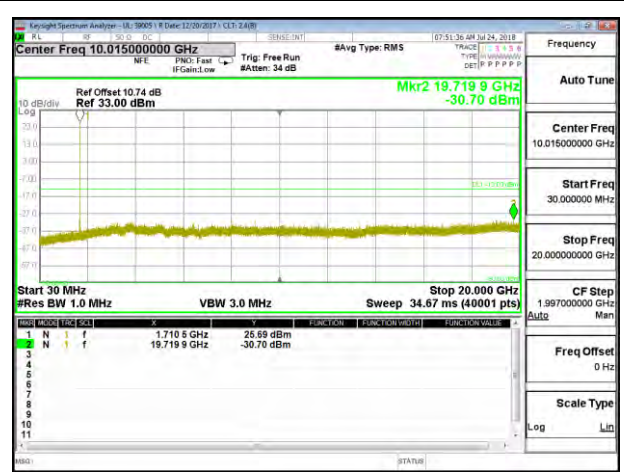
LTE B4 15MHz QPSK Low Channel RB1-0



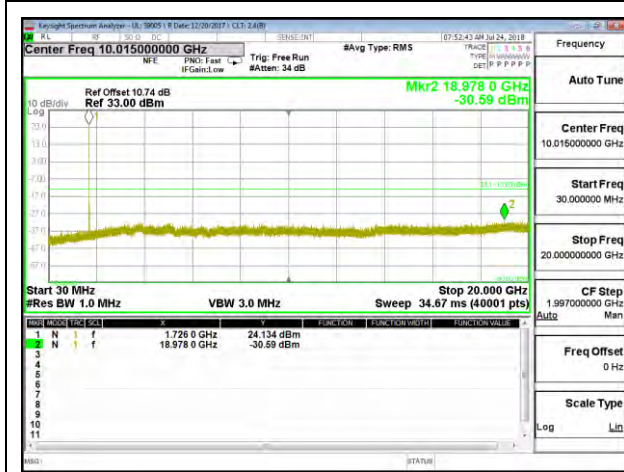
LTE B4 15MHz QPSK Mid Channel RB1-0



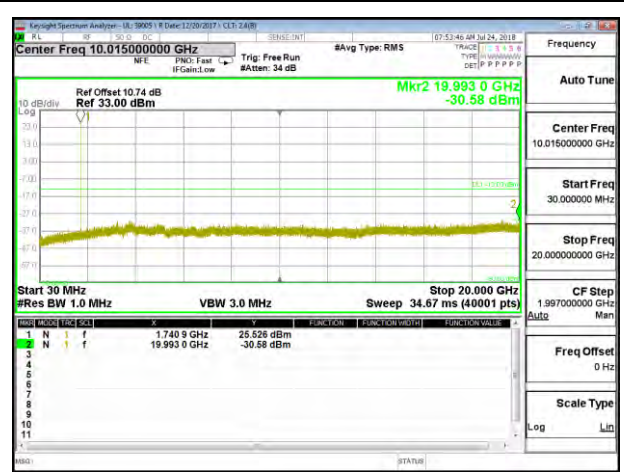
LTE B4 15MHz QPSK High Channel RB1-0



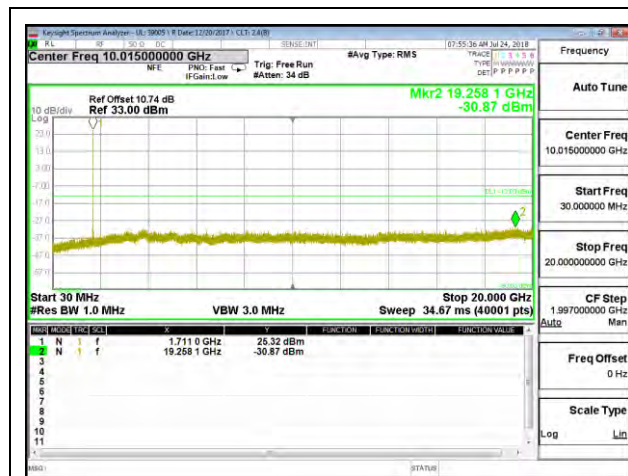
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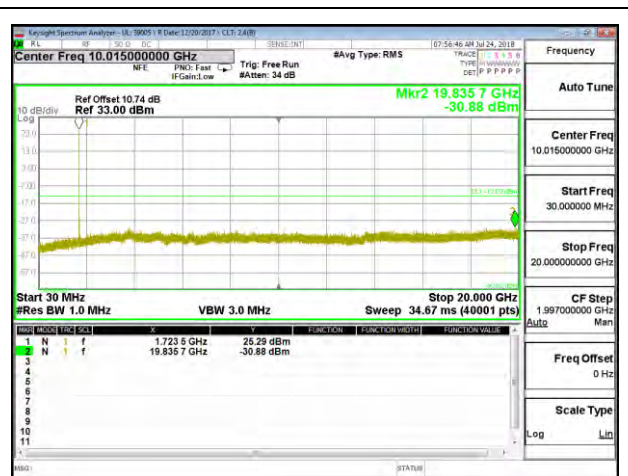
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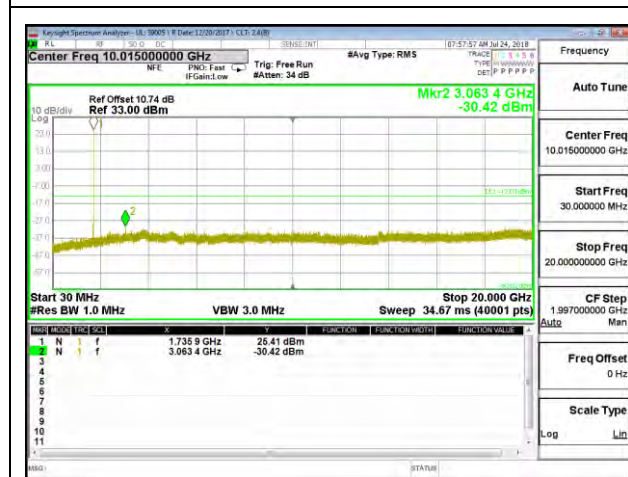
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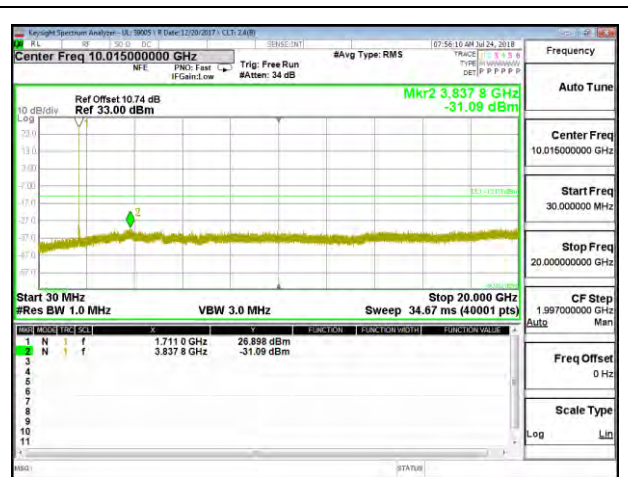
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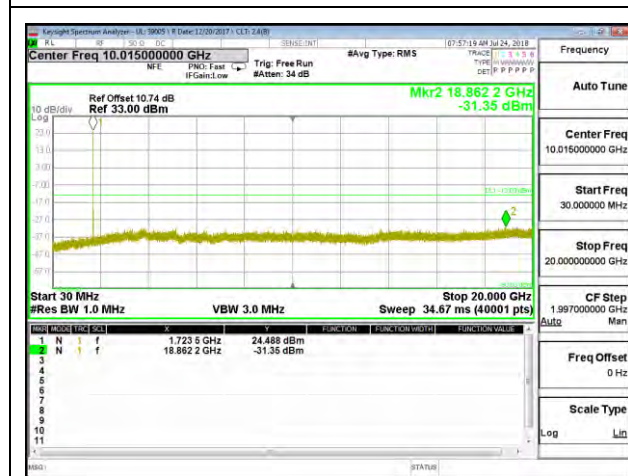
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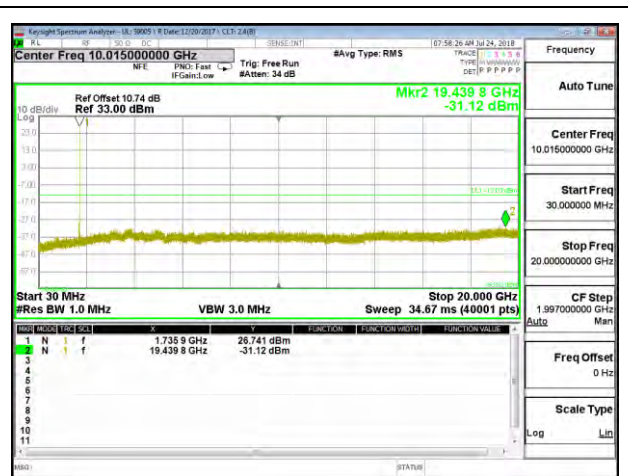
LTE B4 20MHz QPSK High Channel RB1-0



LTE B4 20MHz 16QAM Low Channel RB1-0



LTE B4 20MHz 16QAM Mid Channel RB1-0



LTE B4 20MHz 16QAM High Channel RB1-0