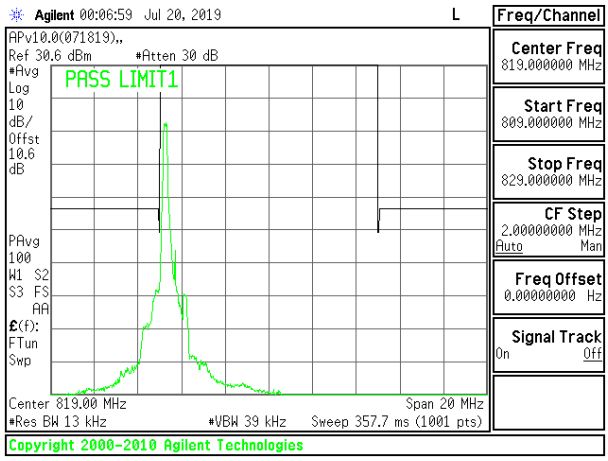
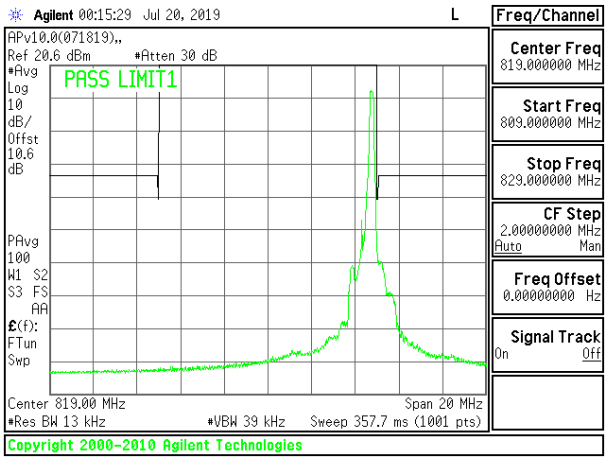
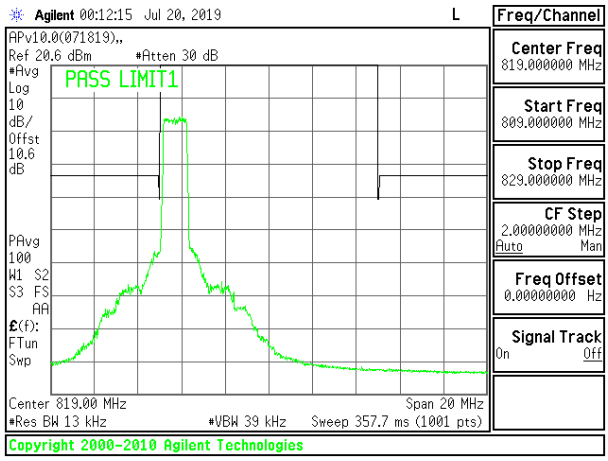
8.2.9. LTE BAND 26 EMISSION MASK (FCC PART 90S)



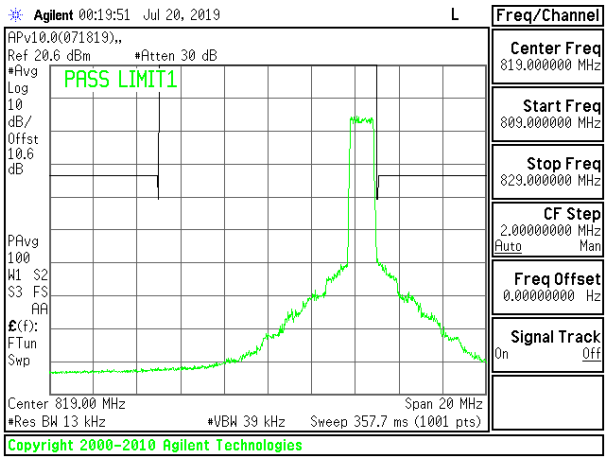
LTE B26 1.4MHz QPSK Low Channel RB1-0



LTE B26 1.4MHz QPSK High Channel RB1-5



LTE B26 1.4MHz QPSK Low Channel RB6-0



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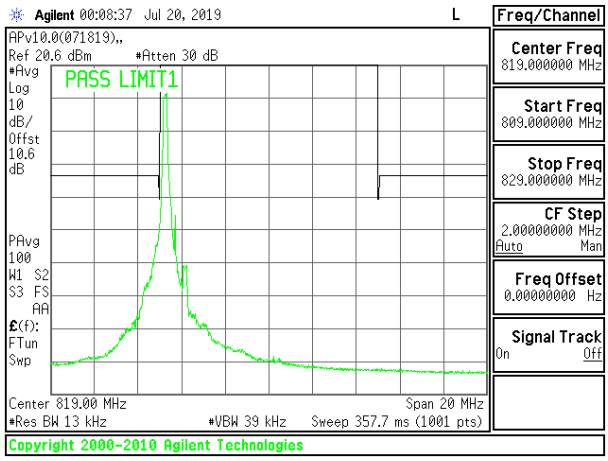
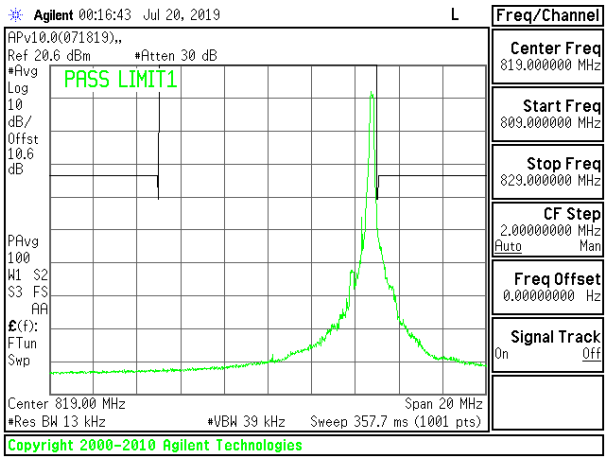


LTE B26 1.4MHz 16QAM Low Channel RB1-0



LTE B26 1.4MHz 16QAM High Channel RB1-5

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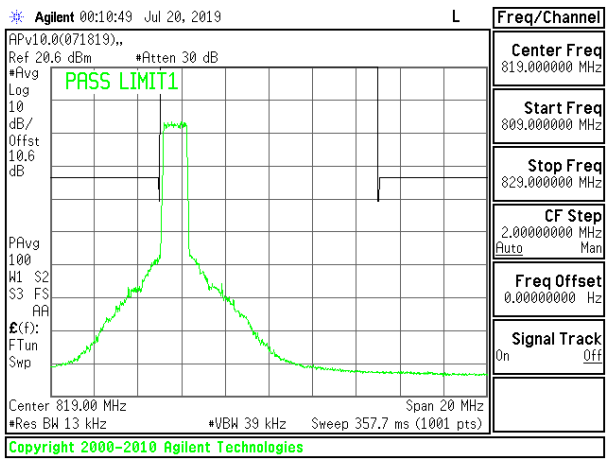
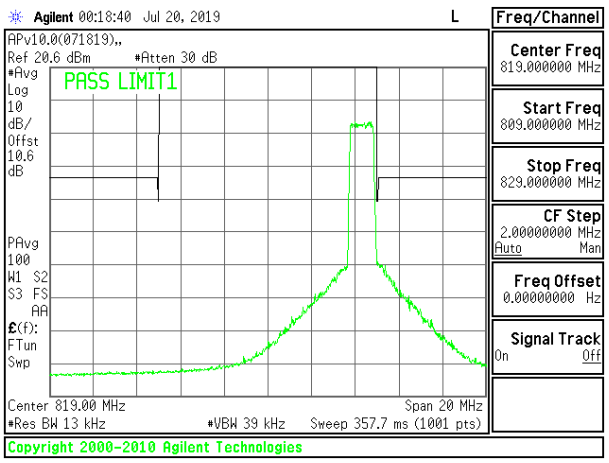
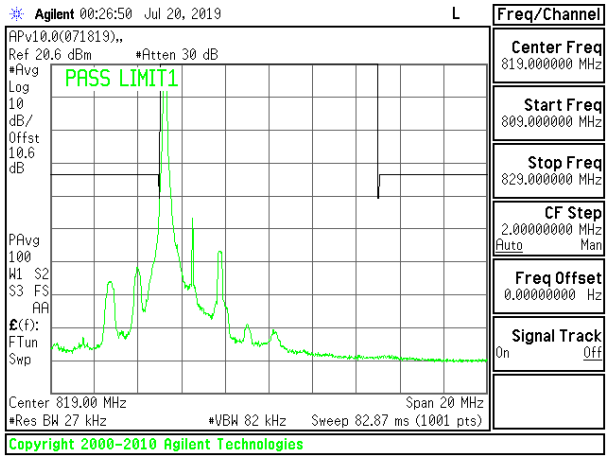


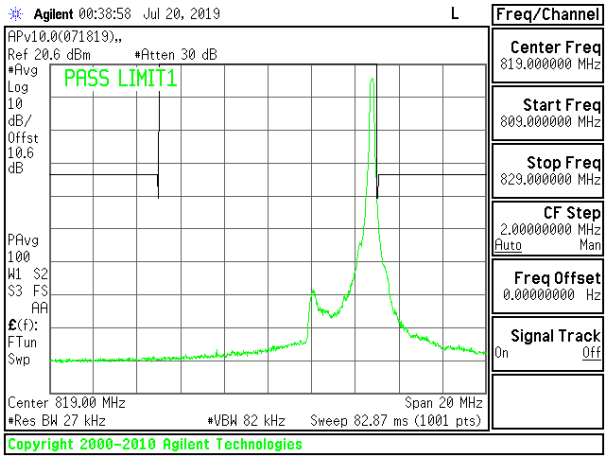
LTE B26 1.4MHz 16QAM Low Channel RB6-0



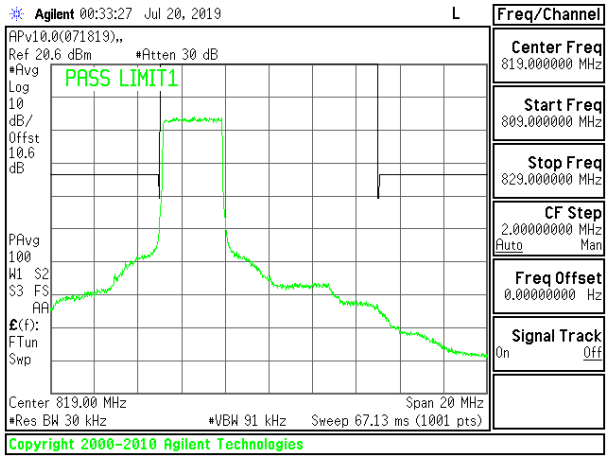
LTE B26 1.4MHz 16QAM High Channel RB6-0



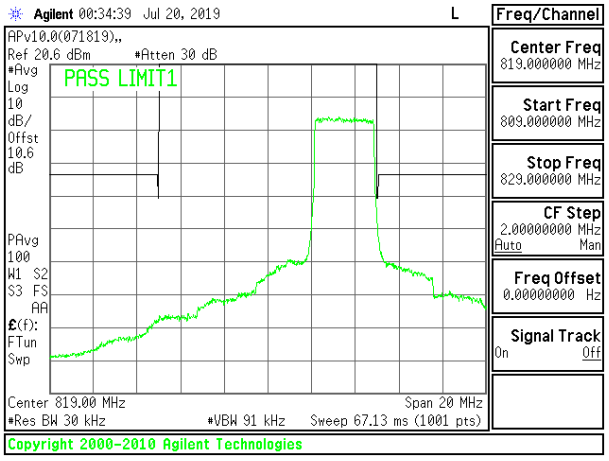
LTE B26 3MHz QPSK Low Channel RB1-0



LTE B26 3MHz QPSK High Channel RB1-14



LTE B26 3MHz QPSK Low Channel RB15-0



LTE B26 3MHz QPSK High Channel RB15-0

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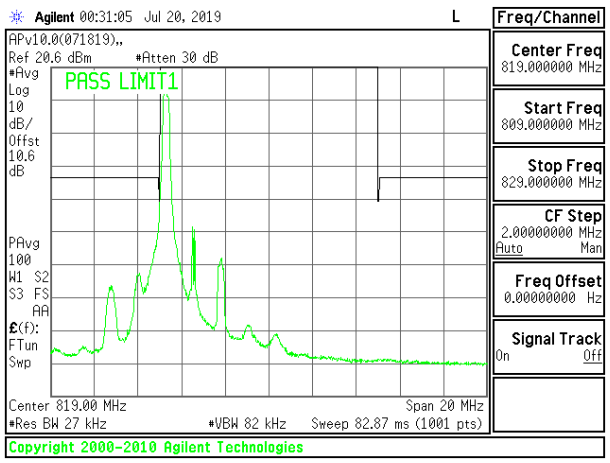
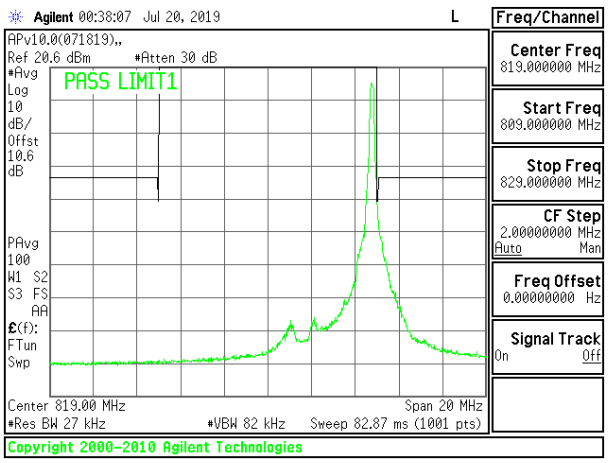
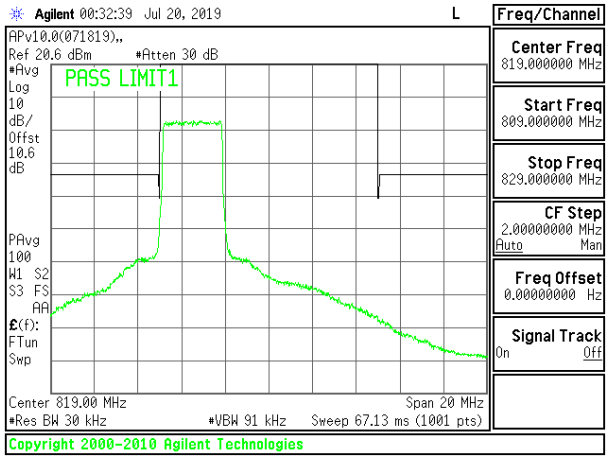


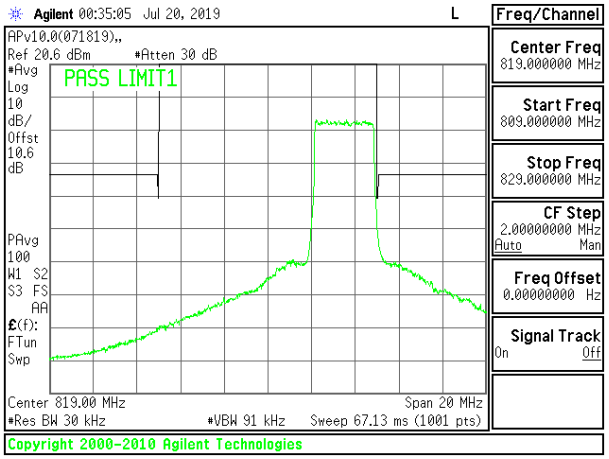
LTE B26 3MHz 16QAM Low Channel RB1-0



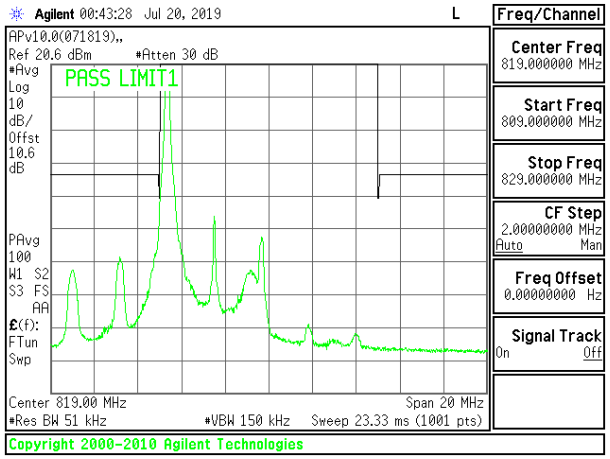
LTE B26 3MHz 16QAM High Channel RB1-14



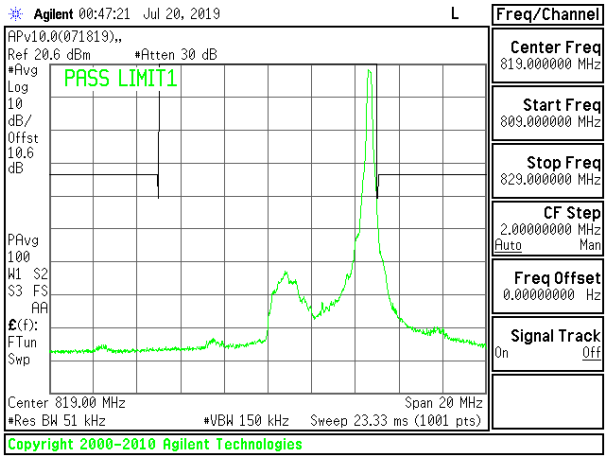
LTE B26 3MHz 16QAM Low Channel RB15-0



LTE B26 3MHz 16QAM High Channel RB15-0



LTE B26 5MHz QPSK Low Channel RB1-0



LTE B26 5MHz QPSK High Channel RB1-24

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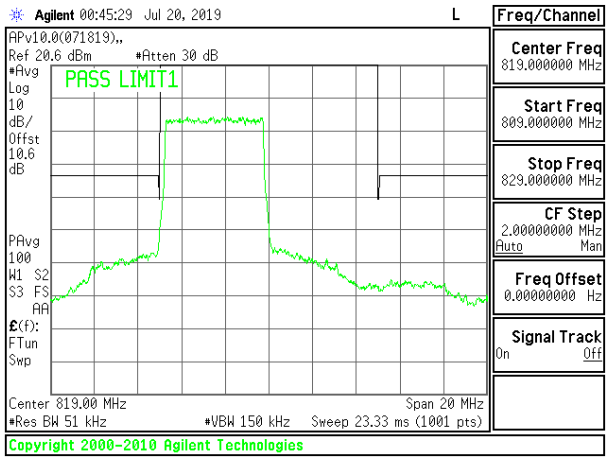
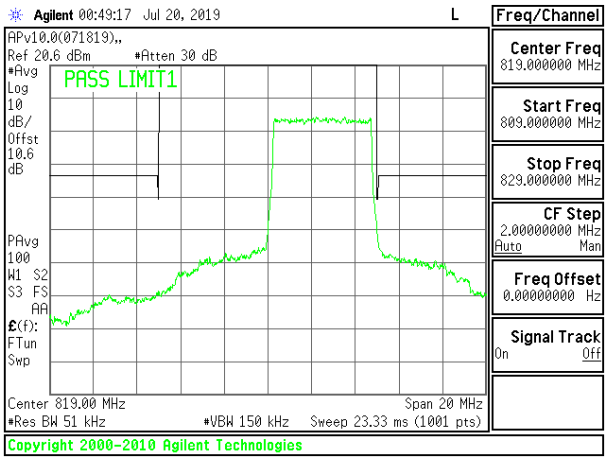
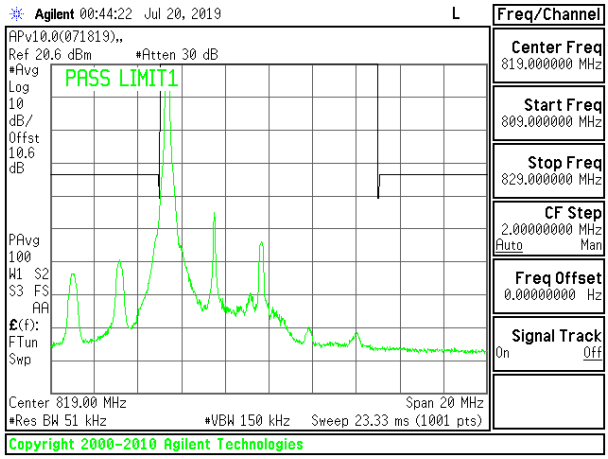


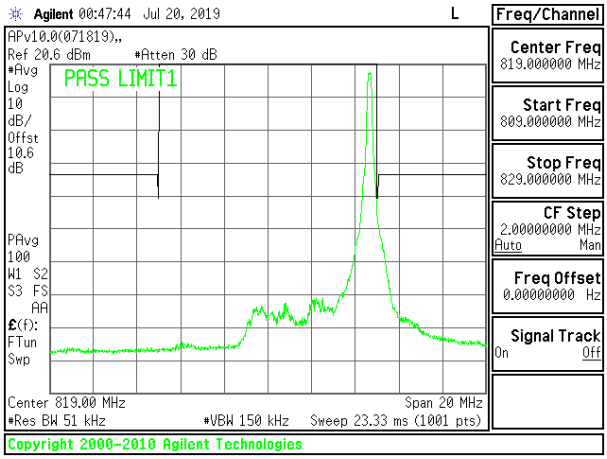
LTE B26 5MHz QPSK Low Channel RB25-0



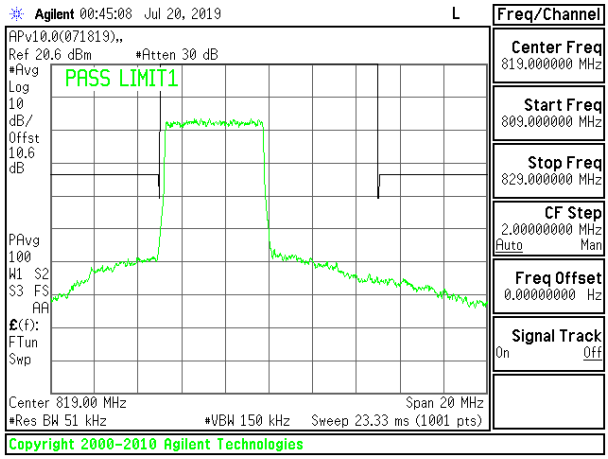
LTE B26 5MHz QPSK High Channel RB25-0



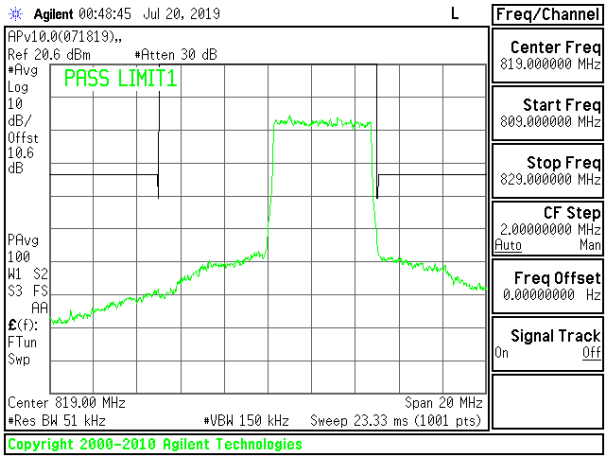
LTE B26 5MHz 16QAM Low Channel RB1-0



LTE B26 5MHz 16QAM High Channel RB1-24



LTE B26 5MHz 16QAM Low Channel RB25-0



LTE B26 5MHz 16QAM High Channel RB25-0

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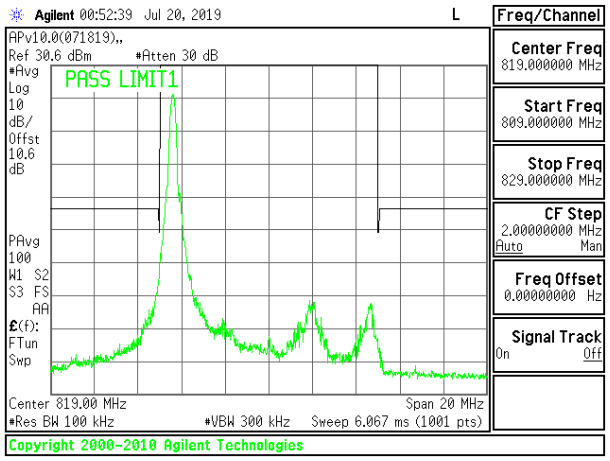
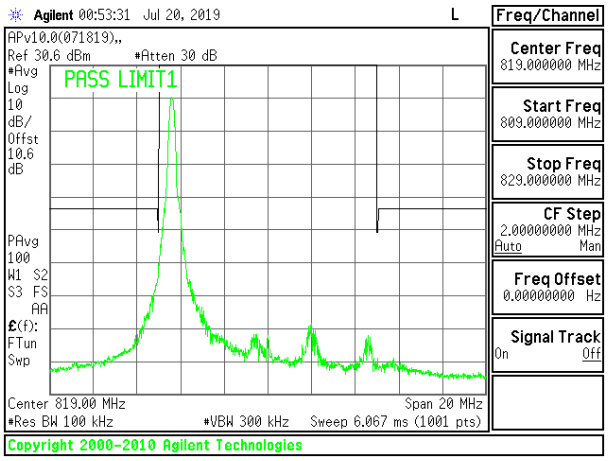
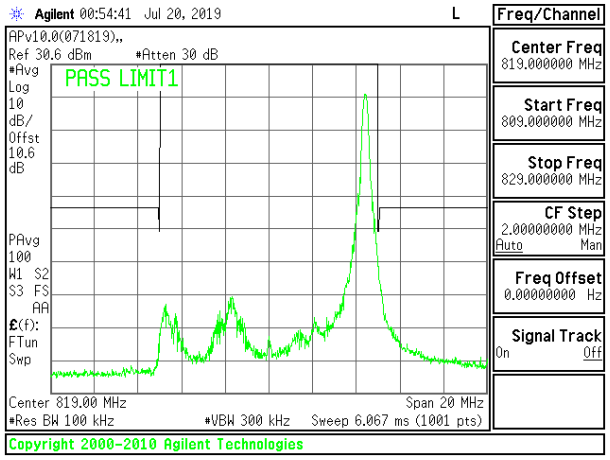


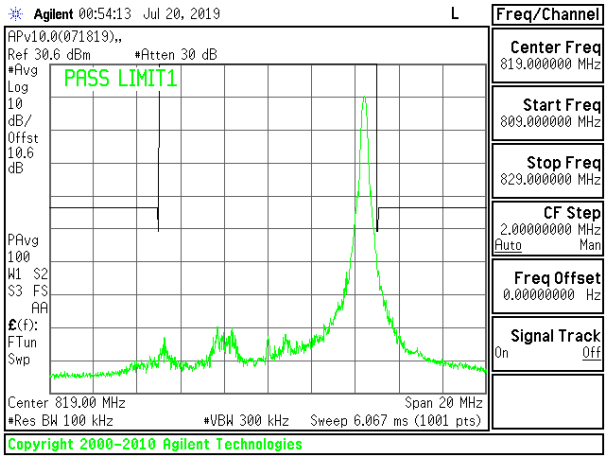
LTE B26 10MHz QPSK Middle Channel RB1-0



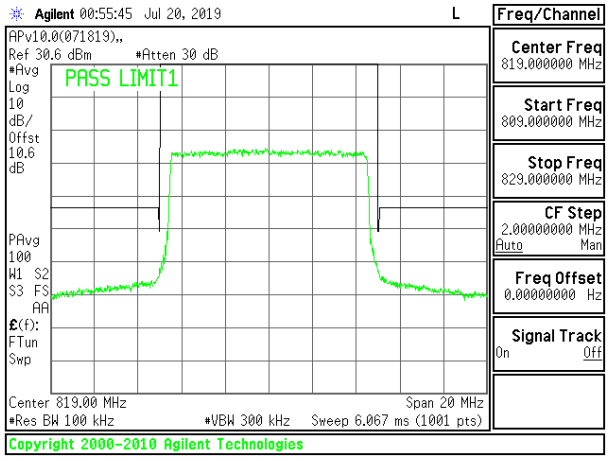
LTE B26 10MHz 16QAM Middle Channel RB1-0



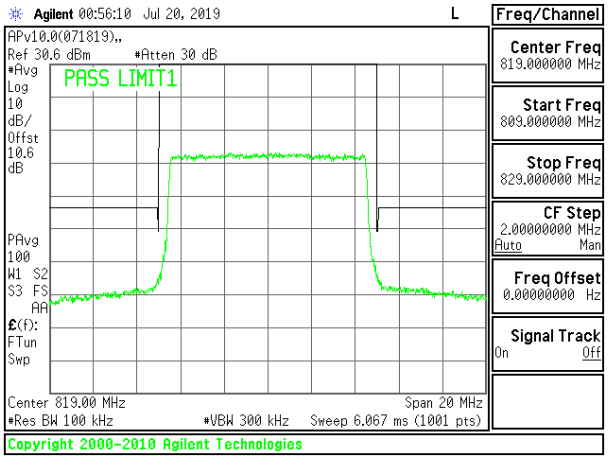
LTE B26 10MHz QPSK Middle Channel RB1-49



LTE B26 10MHz 16QAM Middle Channel RB1-49



LTE B26 10MHz QPSK Middle Channel RB50-0



LTE B26 10MHz 16QAM Middle Channel RB50-0

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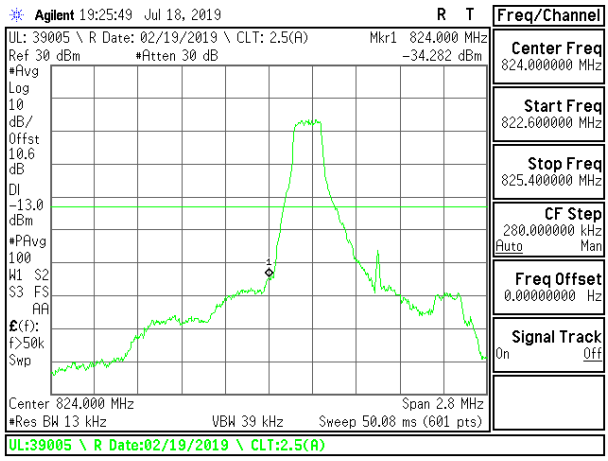
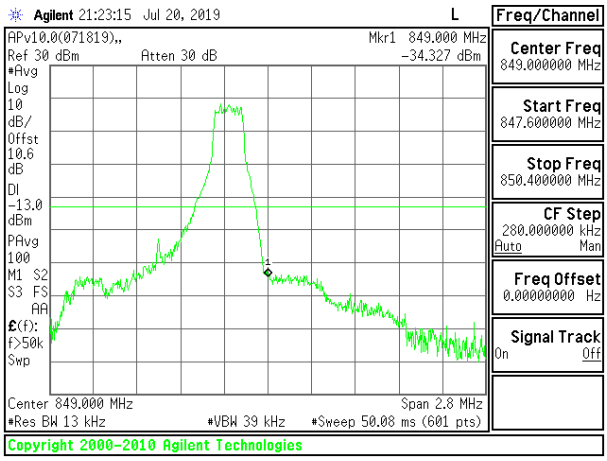
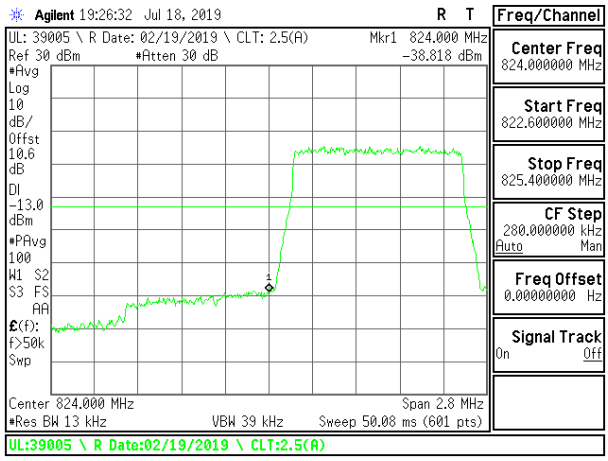
8.2.10. LTE BAND 26 BANDEDGE (FCC PART 22)



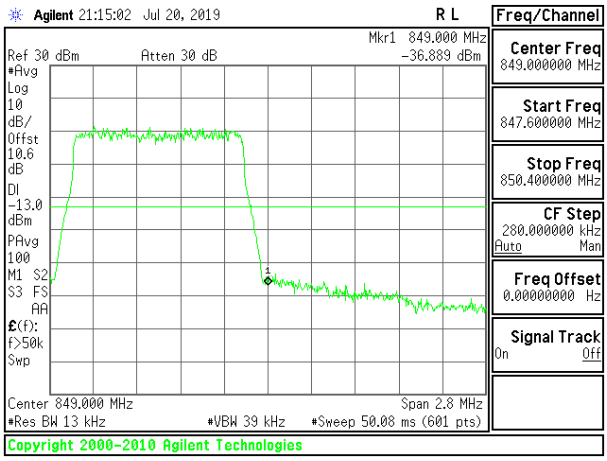
LTE B26 1.4MHz QPSK Low Channel RB1-0



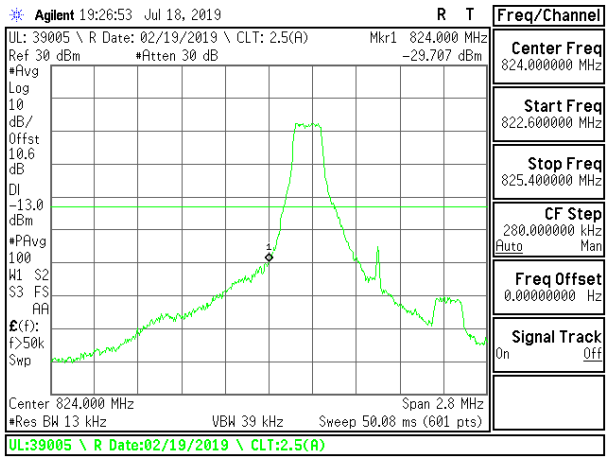
LTE B26 1.4MHz QPSK High Channel RB1-5



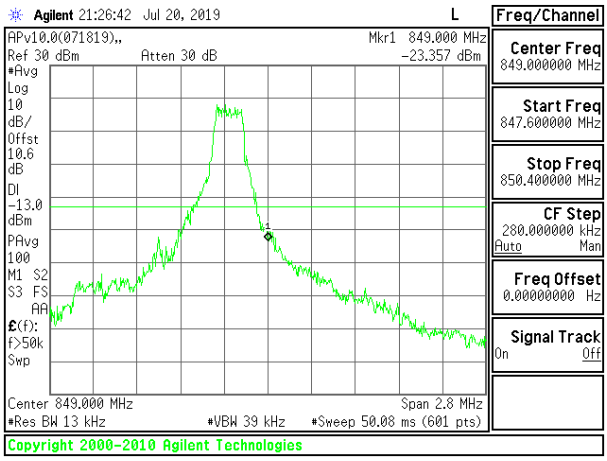
LTE B26 1.4MHz QPSK Low Channel RB6-0



LTE B26 1.4MHz QPSK High Channel RB6-0



LTE B26 1.4MHz 16QAM Low Channel RB1-0



LTE B26 1.4MHz 16QAM High Channel RB1-5

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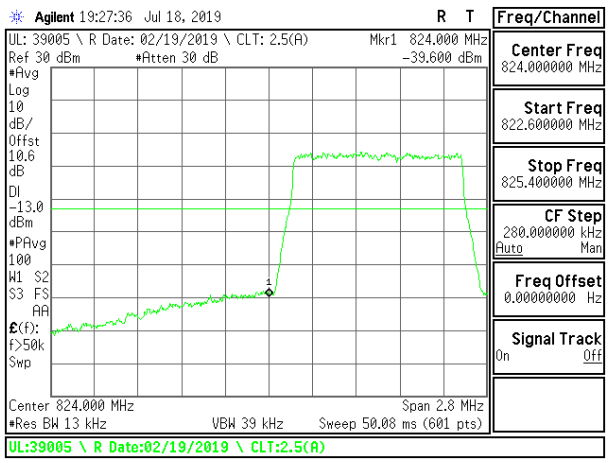
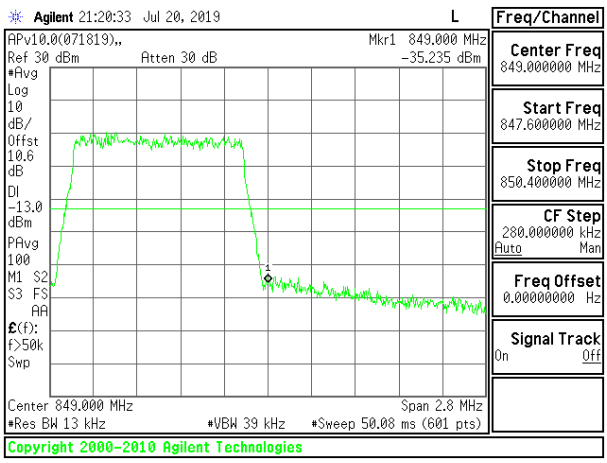
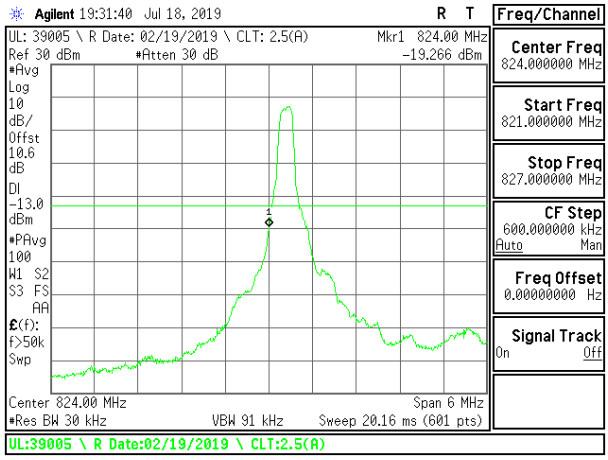


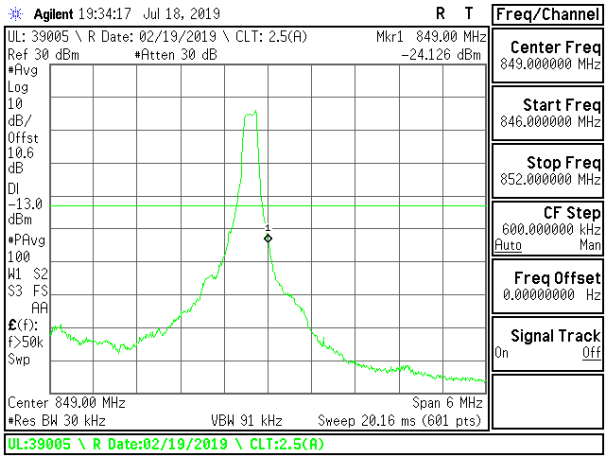
LTE B26 1.4MHz 16QAM Low Channel RB6-0



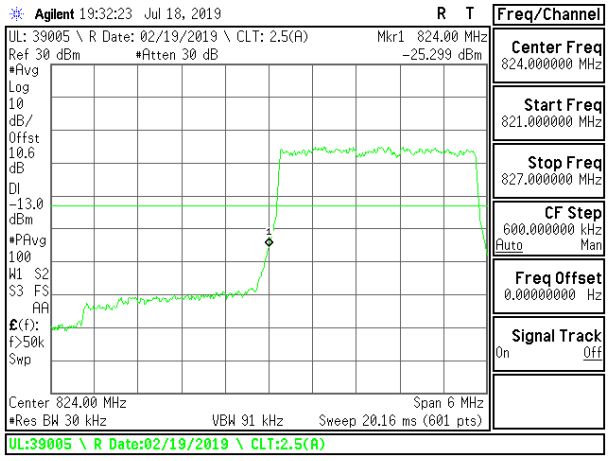
LTE B26 1.4MHz 16QAM High Channel RB6-0



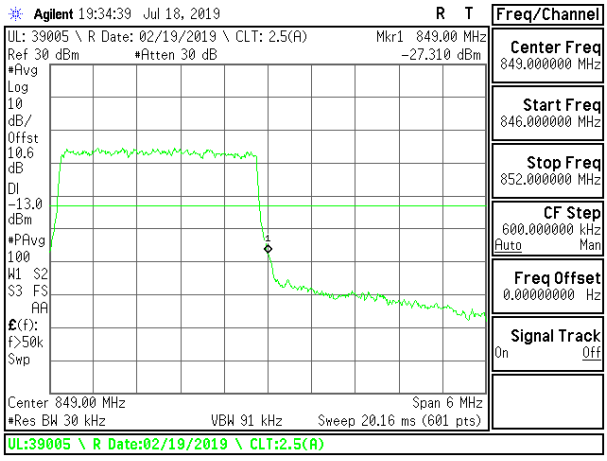
LTE B26 3MHz QPSK Low Channel RB1-0



LTE B26 3MHz QPSK High Channel RB1-14



LTE B26 3MHz QPSK Low Channel RB15-0



LTE B26 3MHz QPSK High Channel RB15-0

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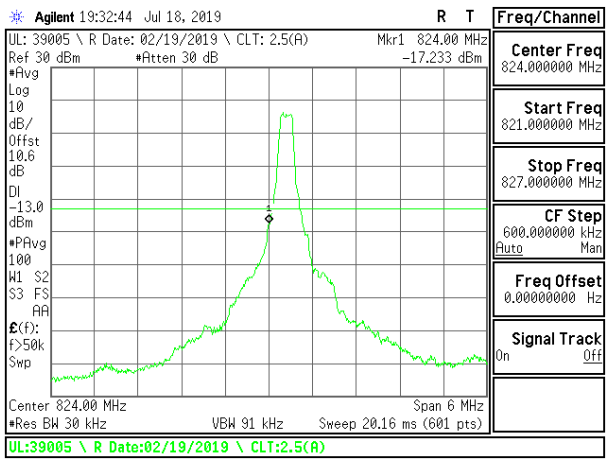
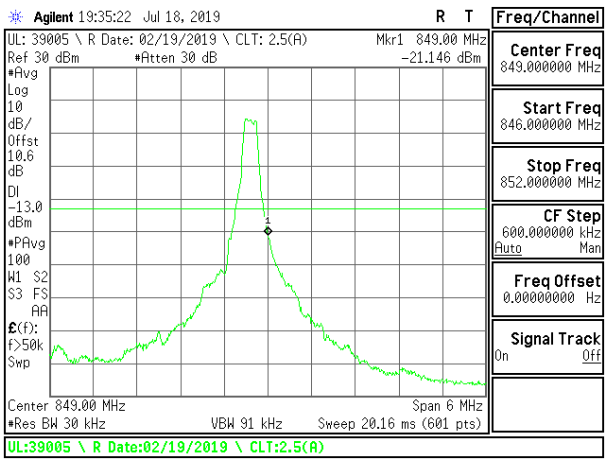
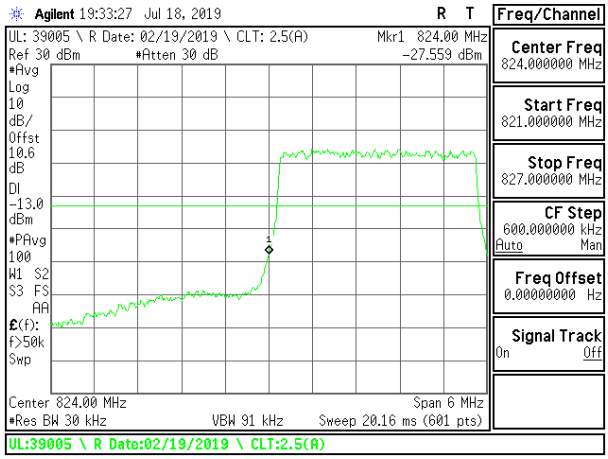


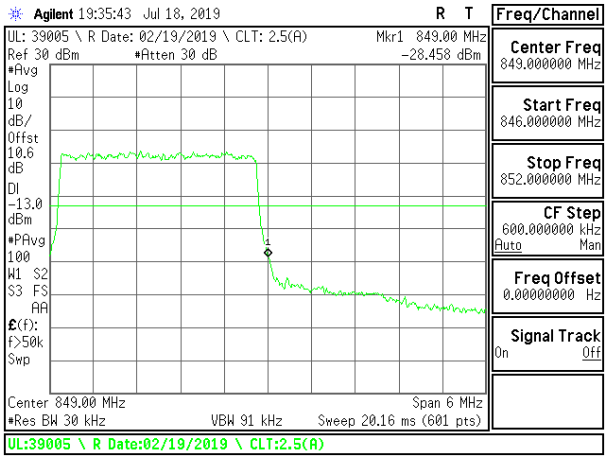
LTE B26 3MHz 16QAM Low Channel RB1-0



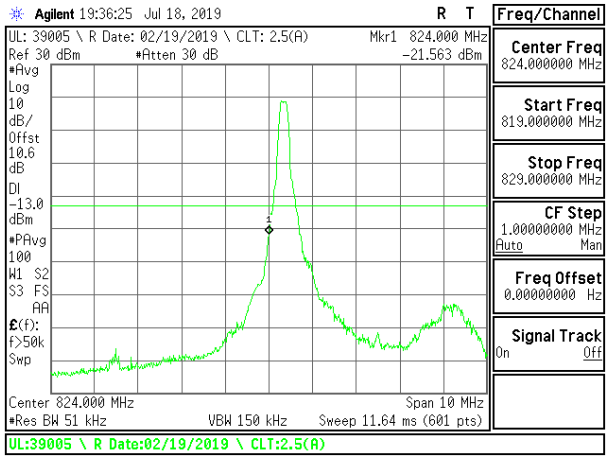
LTE B26 3MHz 16QAM High Channel RB1-14



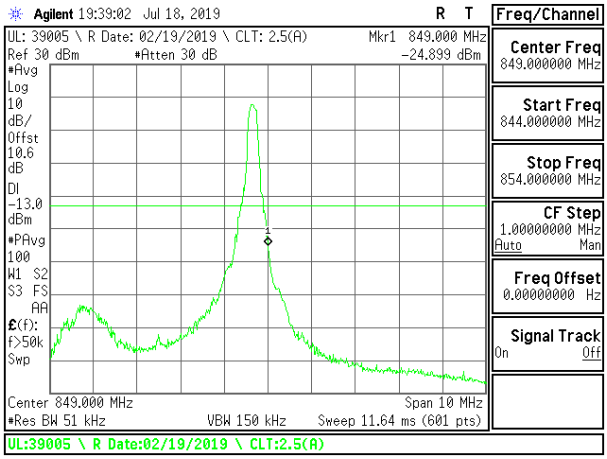
LTE B26 3MHz 16QAM Low Channel RB15-0



LTE B26 3MHz 16QAM High Channel RB15-0



LTE B26 5MHz QPSK Low Channel RB1-0



LTE B26 5MHz QPSK High Channel RB1-24

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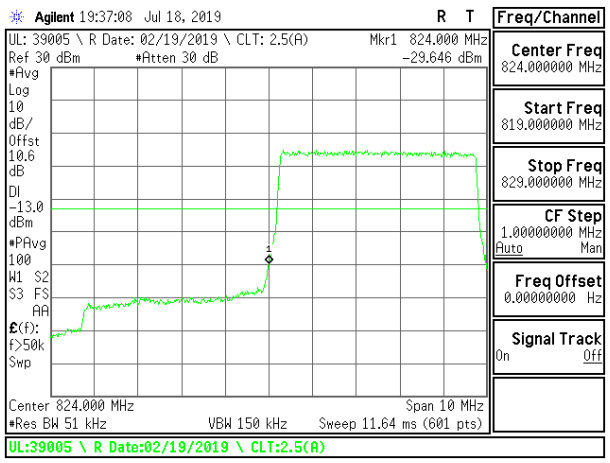
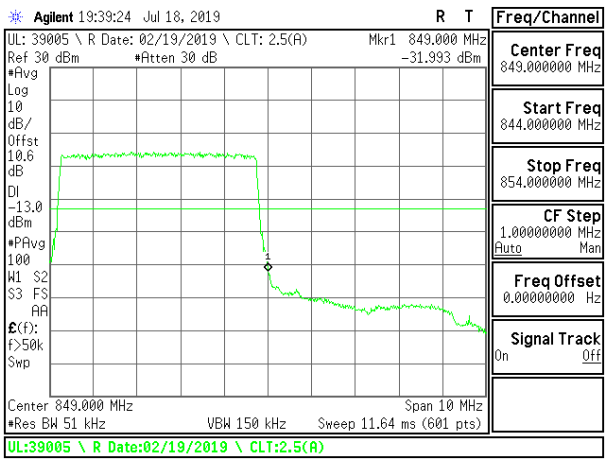
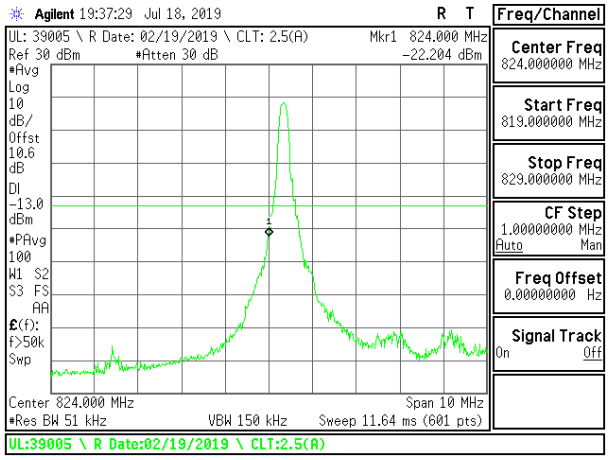


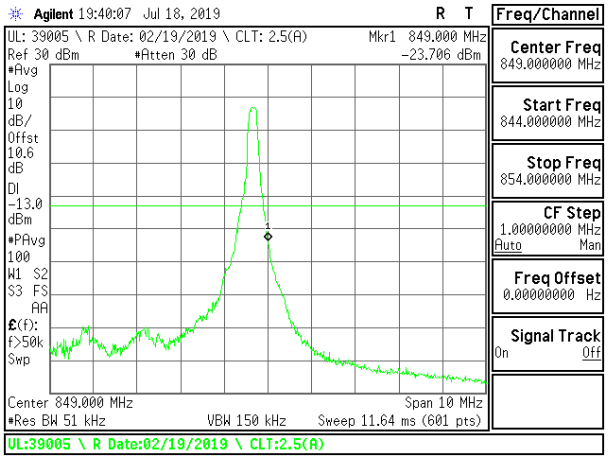
LTE B26 5MHz QPSK Low Channel RB25-0



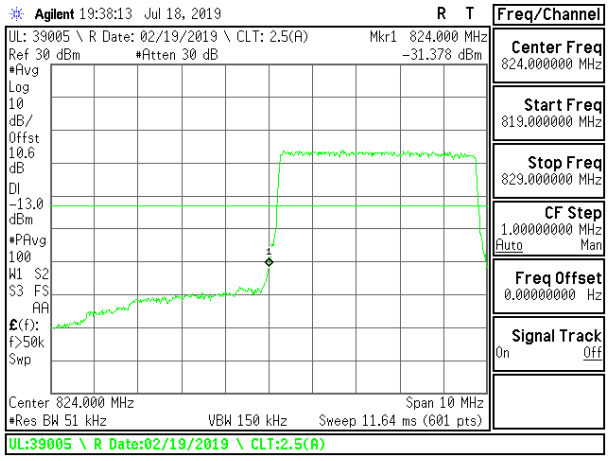
LTE B26 5MHz QPSK High Channel RB25-0



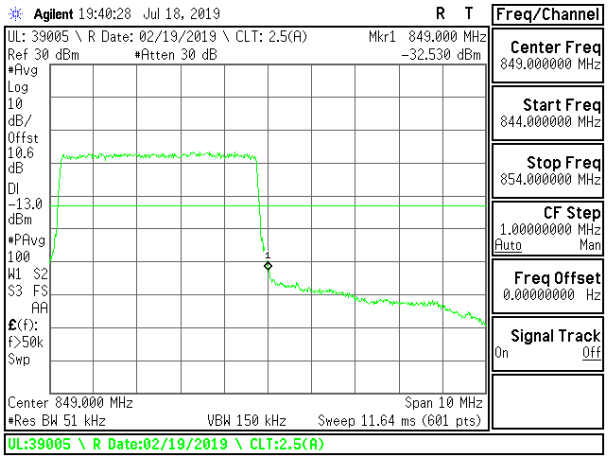
LTE B26 5MHz 16QAM Low Channel RB1-0



LTE B26 5MHz 16QAM High Channel RB1-24



LTE B26 5MHz 16QAM Low Channel RB25-0



LTE B26 5MHz 16QAM High Channel RB25-0

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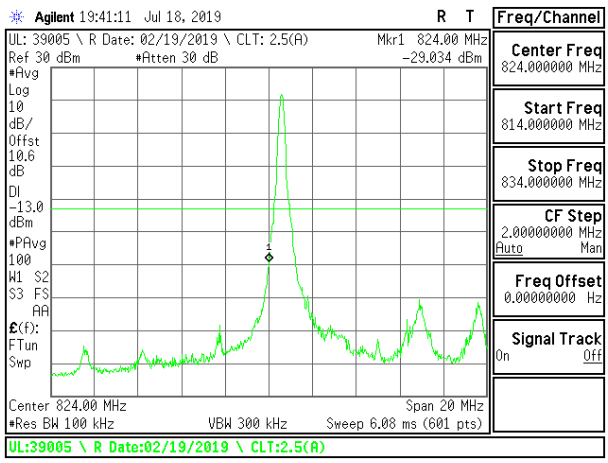
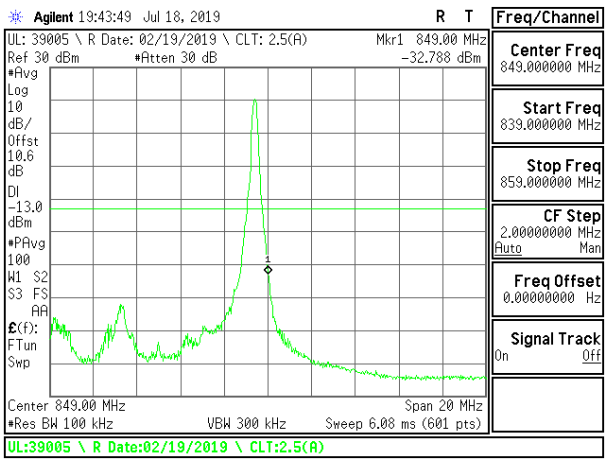
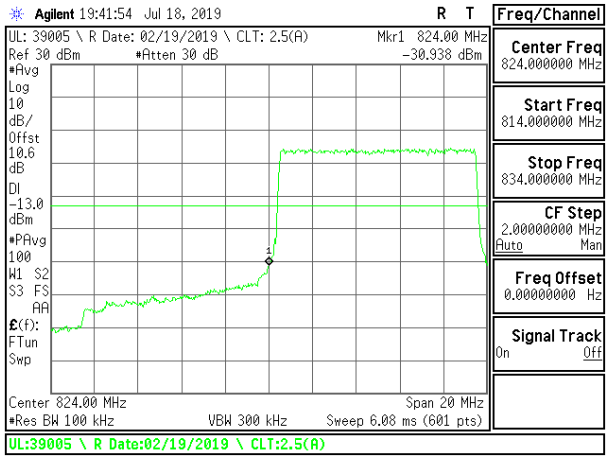


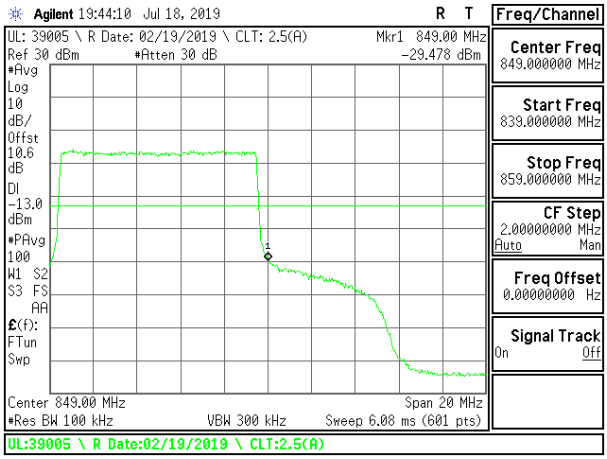
LTE B26 10MHz QPSK Low Channel RB1-0



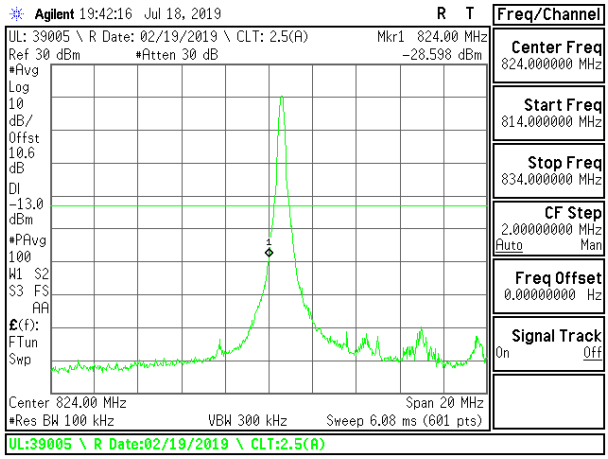
LTE B26 10MHz QPSK High Channel RB1-49



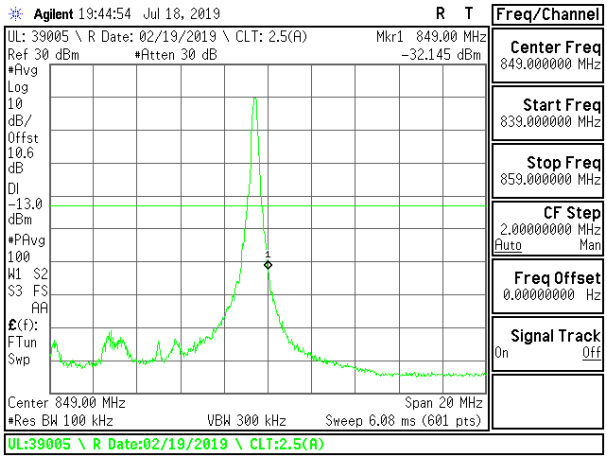
LTE B26 10MHz QPSK Low Channel RB50-0



LTE B26 10MHz QPSK High Channel RB50-0



LTE B26 10MHz 16QAM Low Channel RB1-0



LTE B26 10MHz 16QAM High Channel RB1-49

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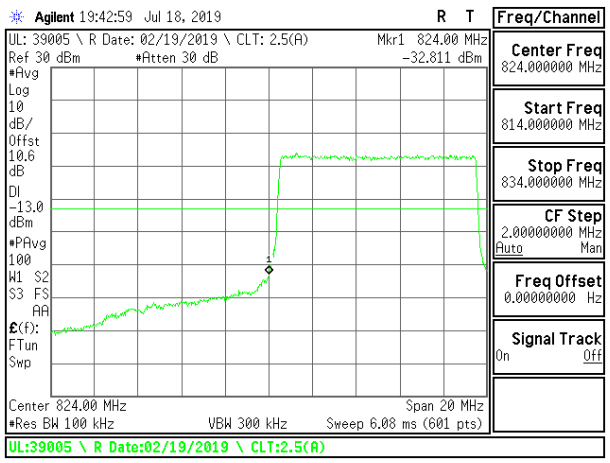
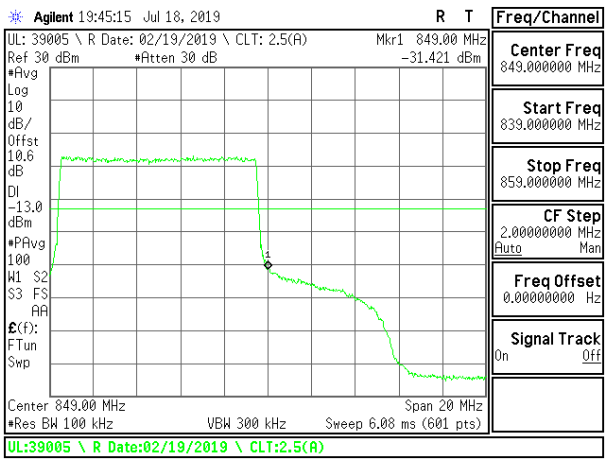
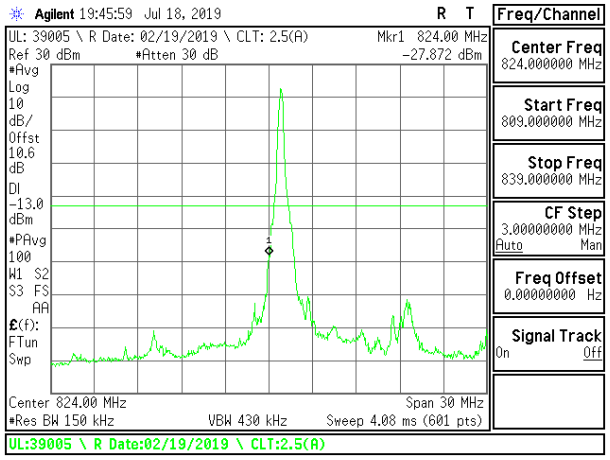


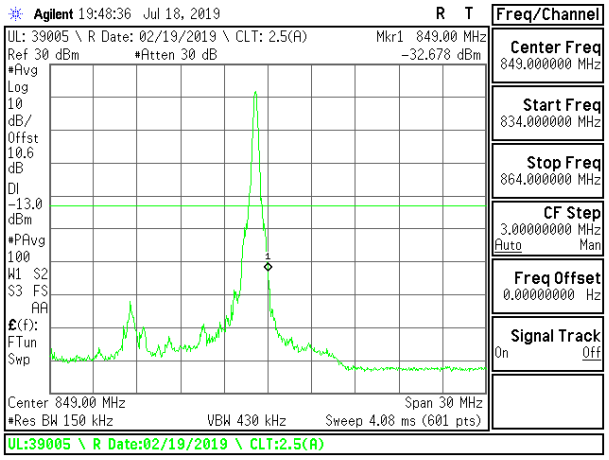
LTE B26 10MHz 16QAM Low Channel RB50-0



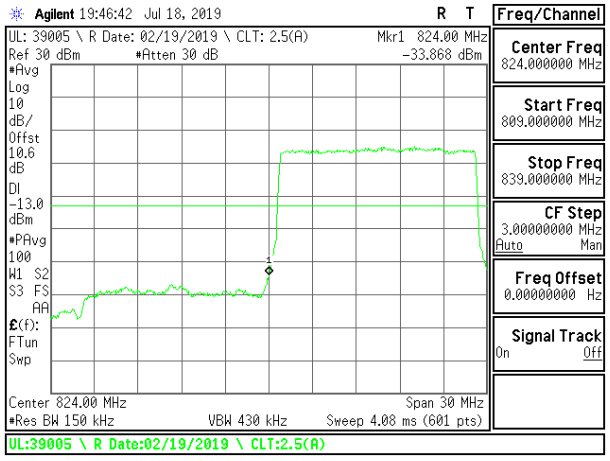
LTE B26 10MHz 16QAM High Channel RB50-0



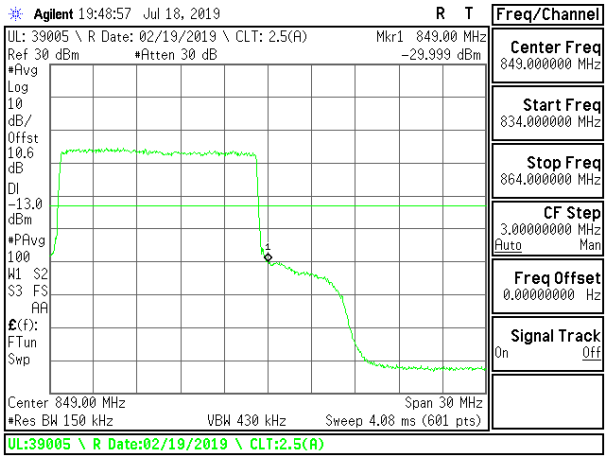
LTE B26 15MHz QPSK Low Channel RB1-0



LTE B26 15MHz QPSK High Channel RB1-74



LTE B26 15MHz QPSK Low Channel RB75-0



LTE B26 15MHz QPSK High Channel RB75-0

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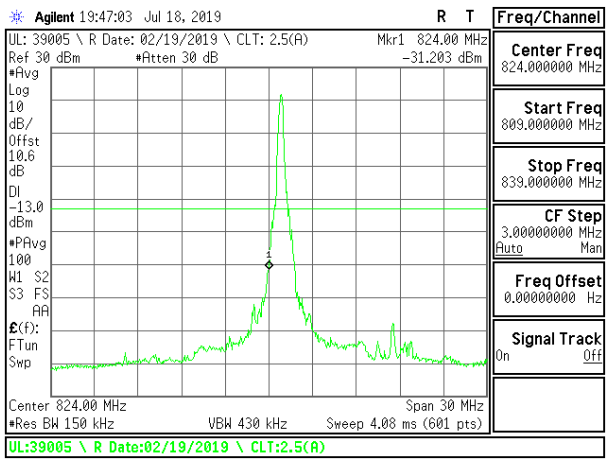
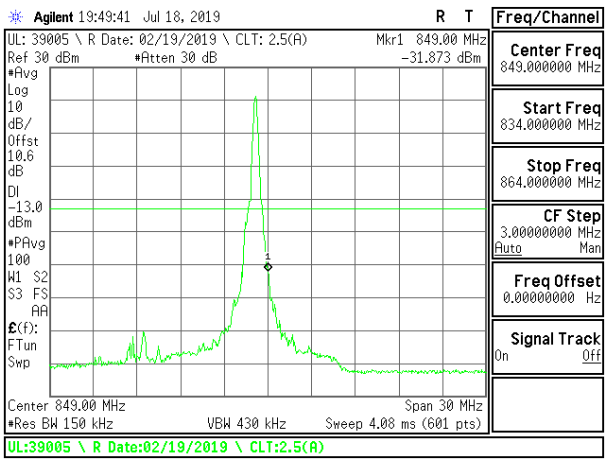
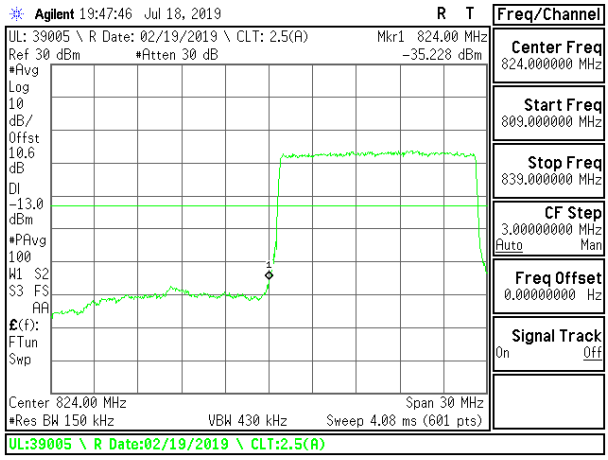


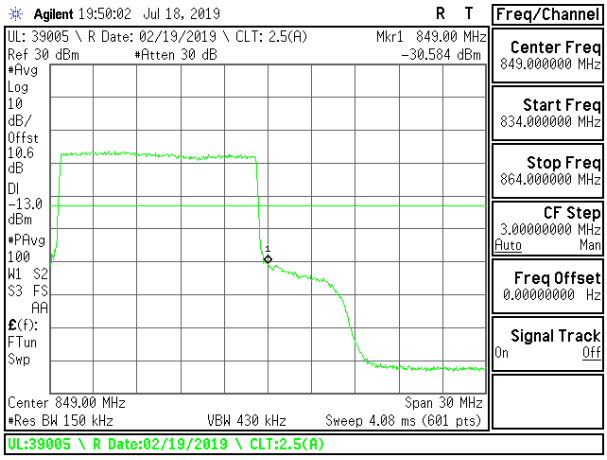
LTE B26 15MHz 16QAM Low Channel RB1-0



LTE B26 15MHz 16QAM High Channel RB1-74



LTE B26 15MHz 16QAM Low Channel RB75-0



LTE B26 15MHz 16QAM High Channel RB75-0

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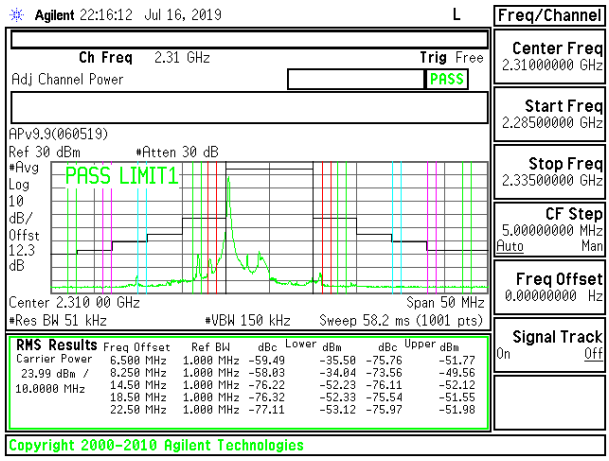
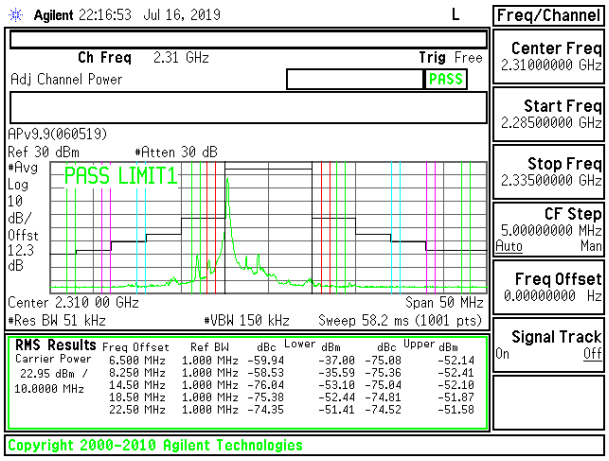
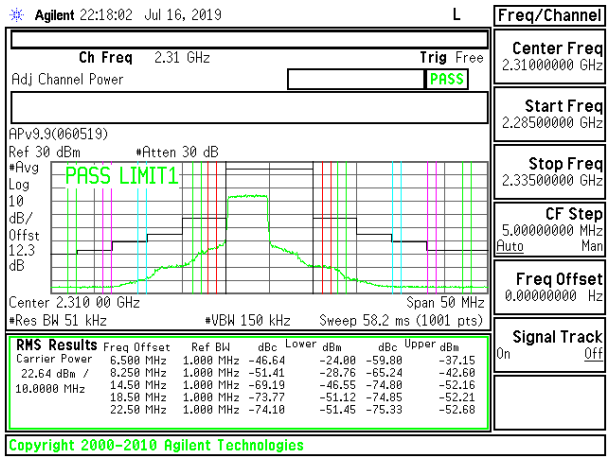
8.2.11. LTE BAND 30 ADJACENT CHANNEL POWER



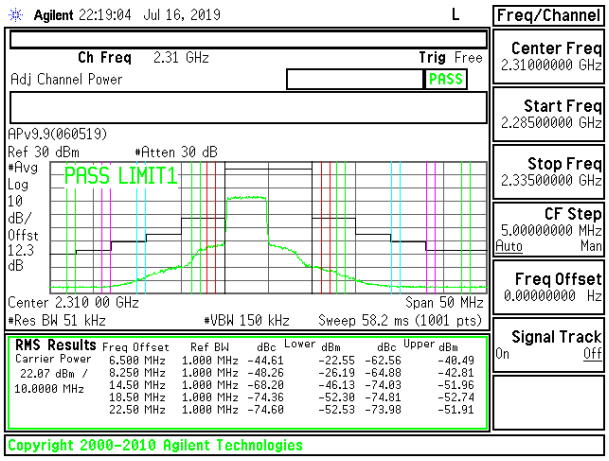
LTE B30 5MHz QPSK Low Channel RB1-0



LTE B30 5MHz 16QAM Low Channel RB1-0



LTE B30 5MHz QPSK Low Channel RB25-0



LTE B30 5MHz 16QAM Low Channel RB25-0

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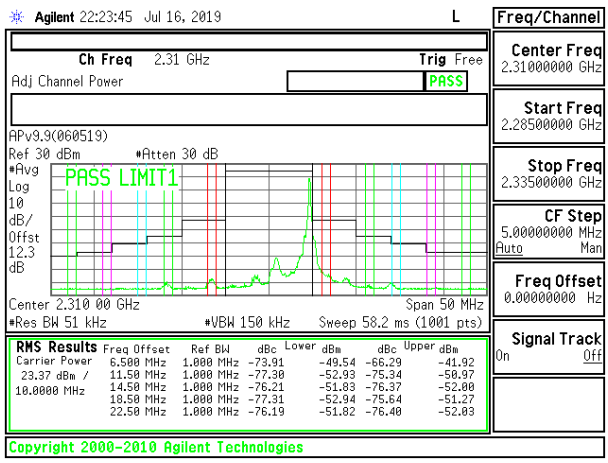
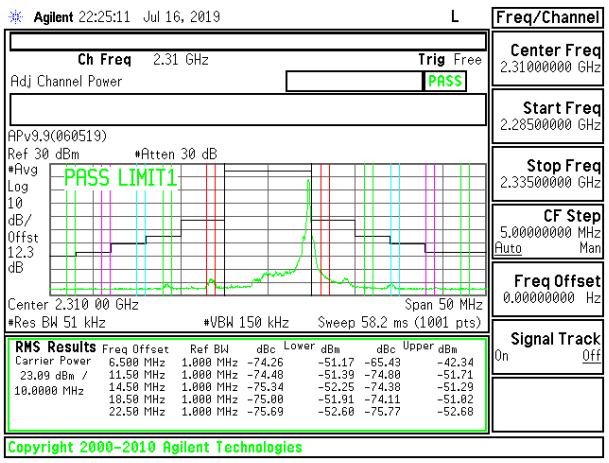
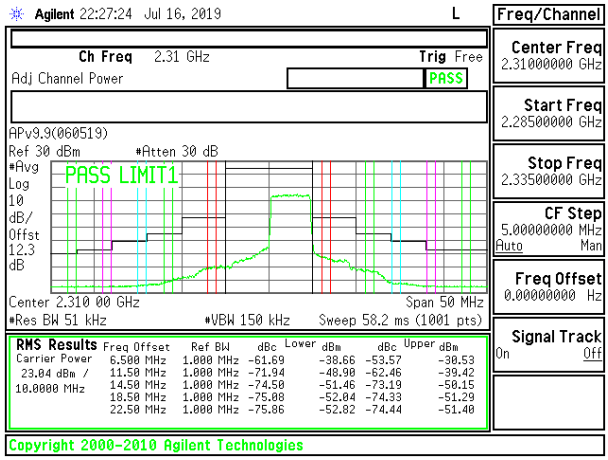


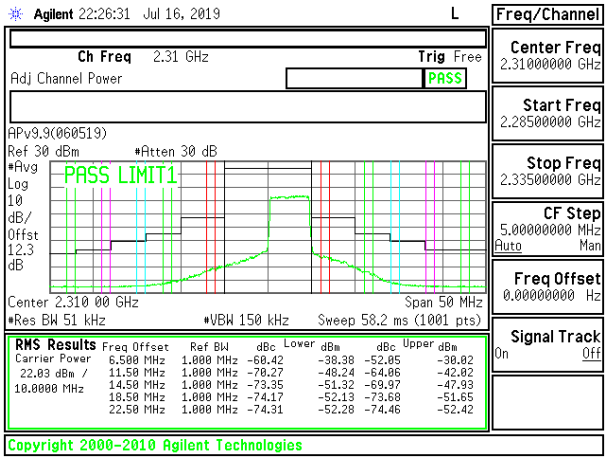
LTE B30 5MHz QPSK High Channel RB1-24



LTE B30 5MHz 16QAM High Channel RB1-24



LTE B30 5MHz QPSK High Channel RB25-0



LTE B30 5MHz 16QAM High Channel RB25-0

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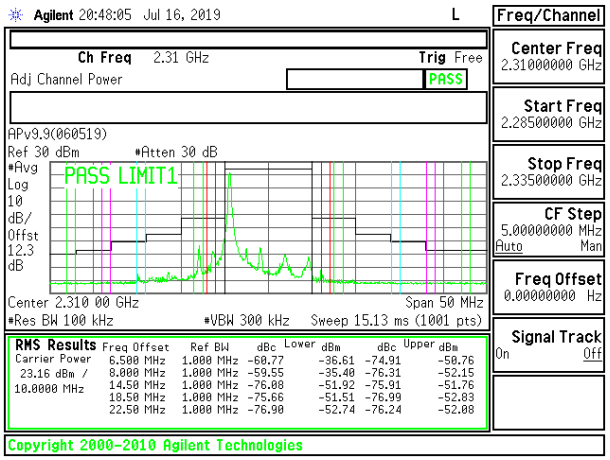
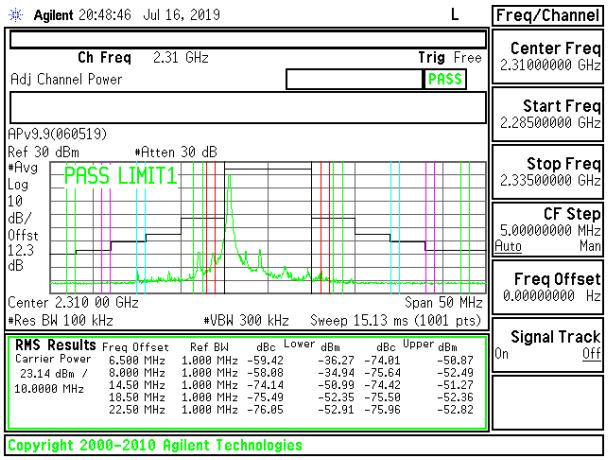
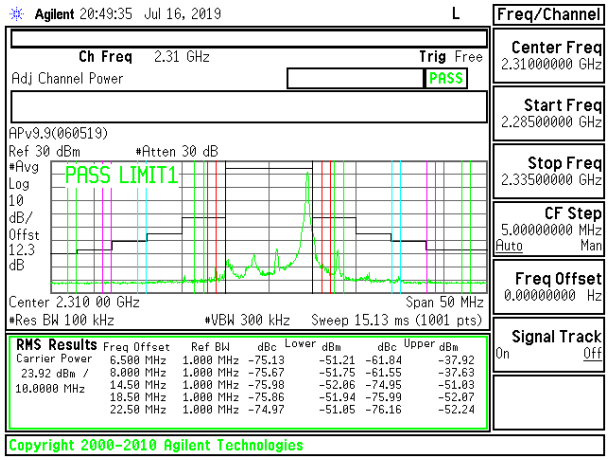


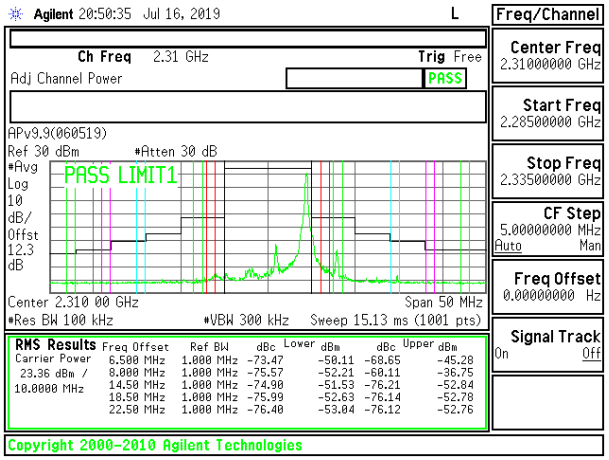
LTE B30 10MHz QPSK Middle Channel RB1-0



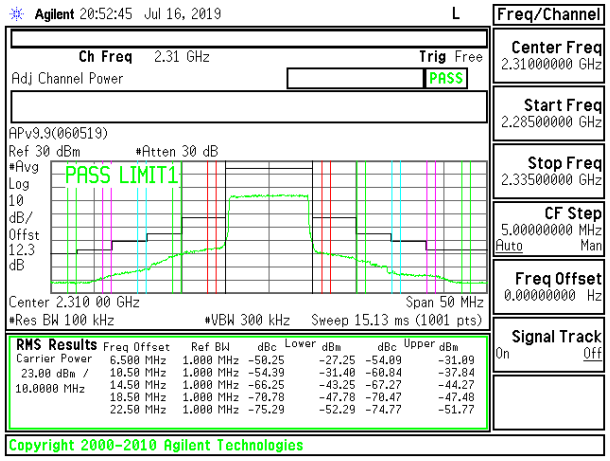
LTE B30 10MHz 16QAM Middle Channel RB1-0



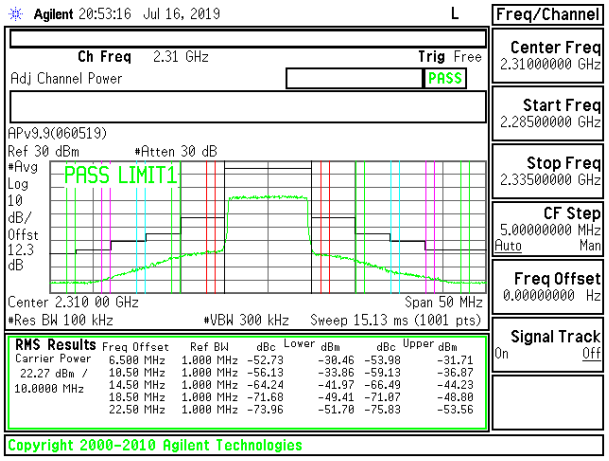
LTE B30 10MHz QPSK Middle Channel RB1-49



LTE B30 10MHz 16QAM Middle Channel RB1-49



LTE B30 10MHz QPSK Middle Channel RB50-0



LTE B30 10MHz 16QAM Middle Channel RB50-0

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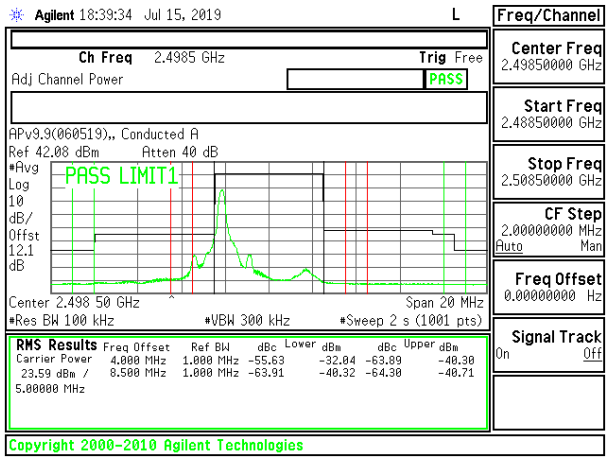
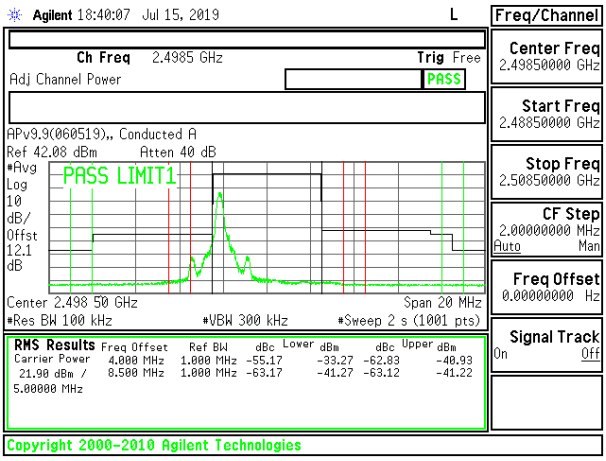
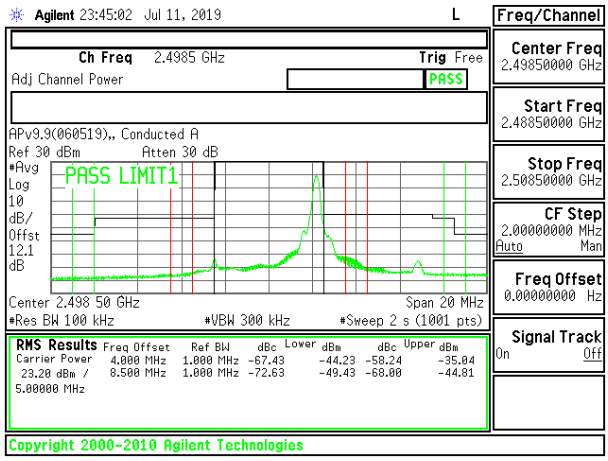
8.2.12. LTE BAND 41 ADJACENT CHANNEL POWER



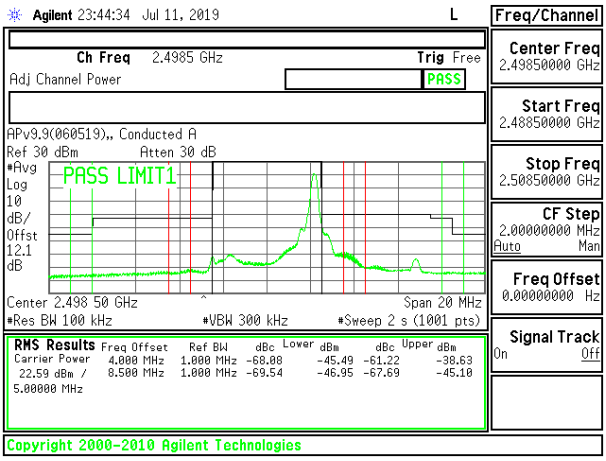
LTE B41 5MHz QPSK Low Channel RB1-0



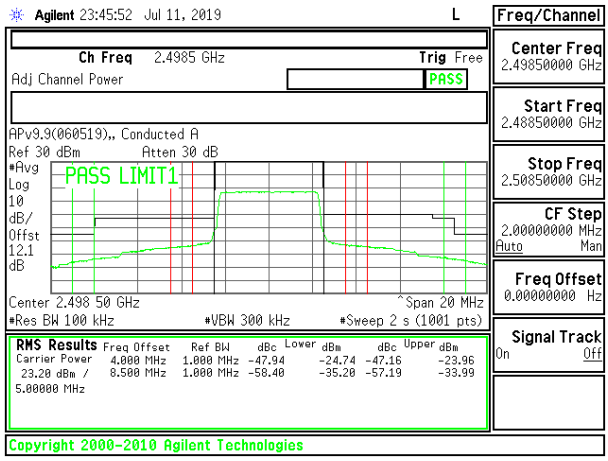
LTE B41 5MHz 16QAM Low Channel RB1-0



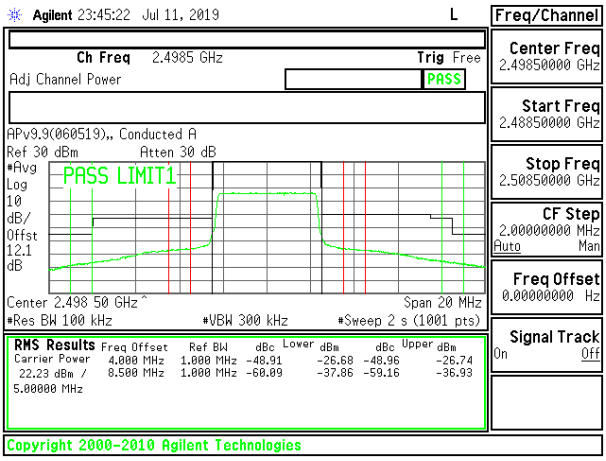
LTE B41 5MHz QPSK Low Channel RB1-24



LTE B41 5MHz 16QAM Low Channel RB1-24



LTE B41 5MHz QPSK Low Channel RB25-0



LTE B41 5MHz 16QAM Low Channel RB25-0

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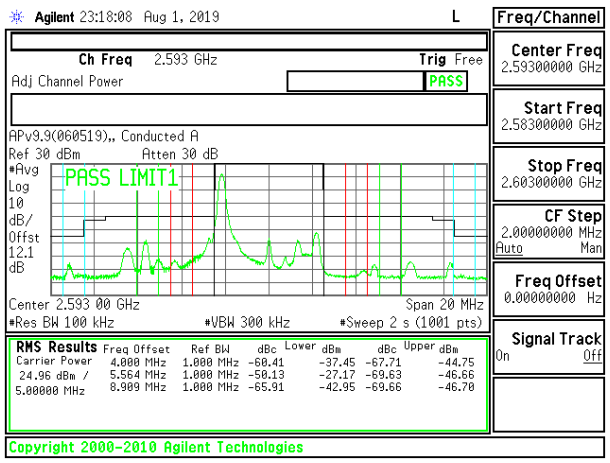
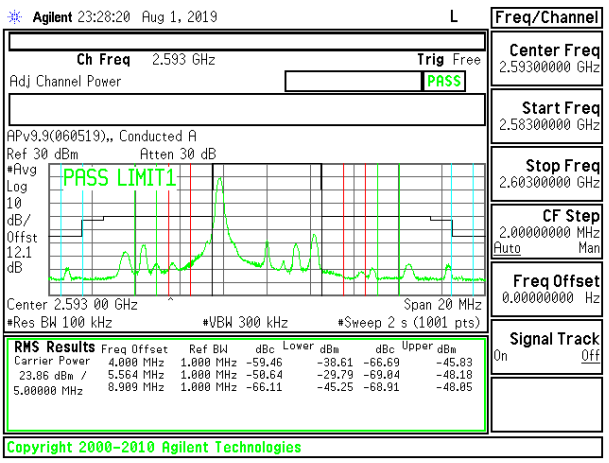
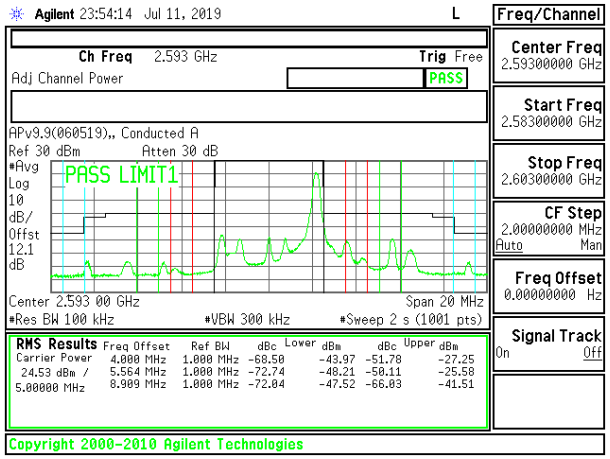


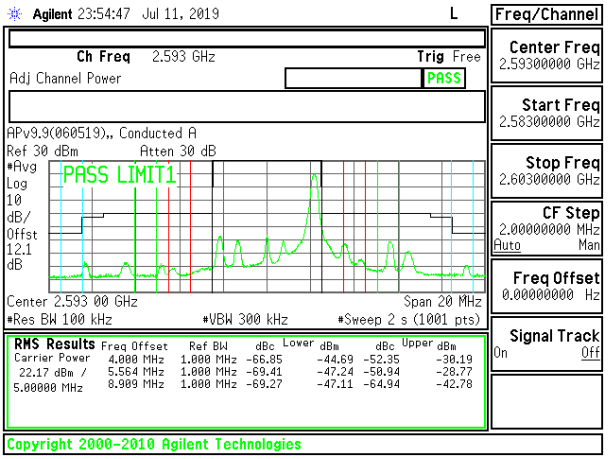
LTE B41 5MHz QPSK Middle Channel RB1-0



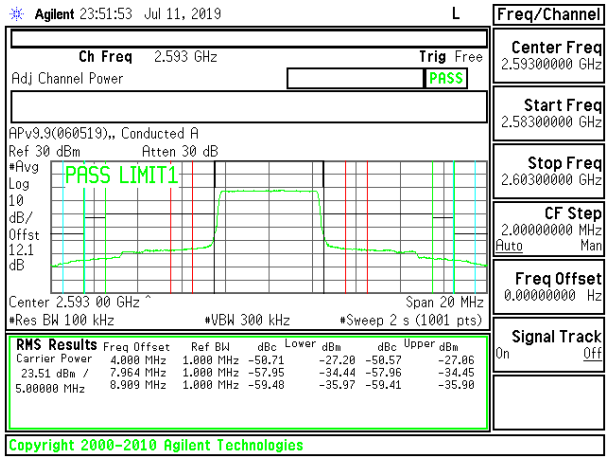
LTE B41 5MHz 16QAM Middle Channel RB1-0



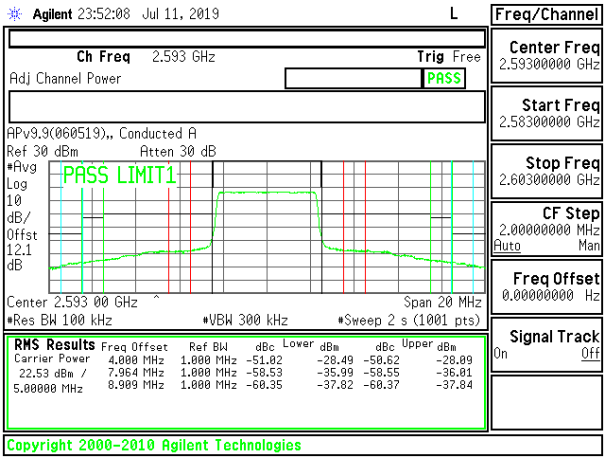
LTE B41 5MHz QPSK Middle Channel RB1-24



LTE B41 5MHz 16QAM Middle Channel RB1-24



LTE B41 5MHz QPSK Middle Channel RB25-0



LTE B41 5MHz 16QAM Middle Channel RB25-0

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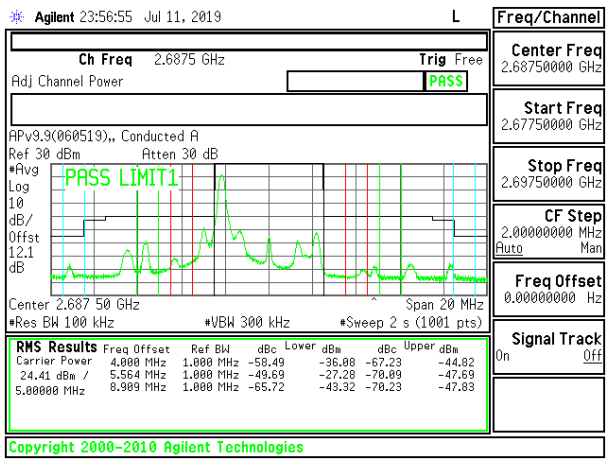
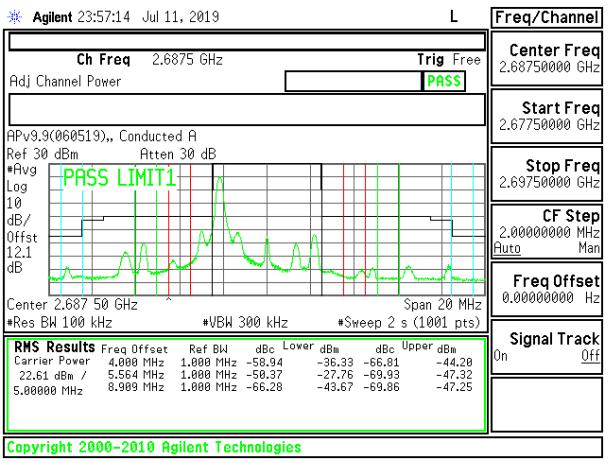


LTE B41 5MHz QPSK High Channel RB1-0



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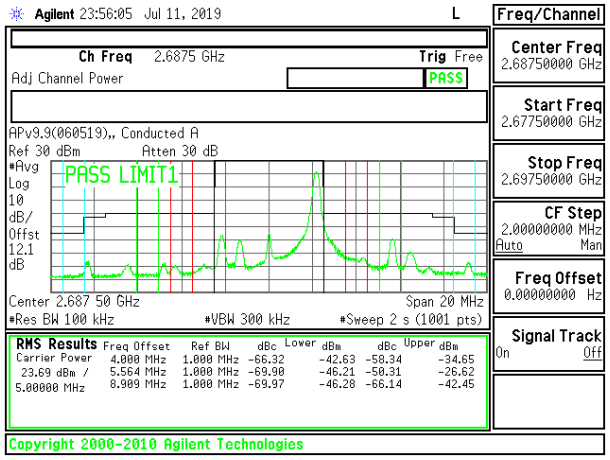

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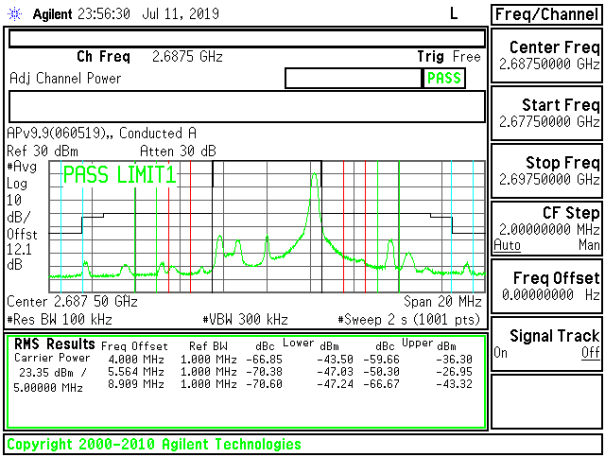
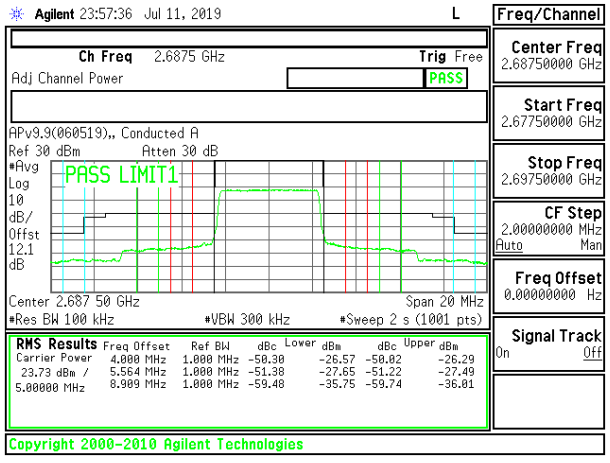
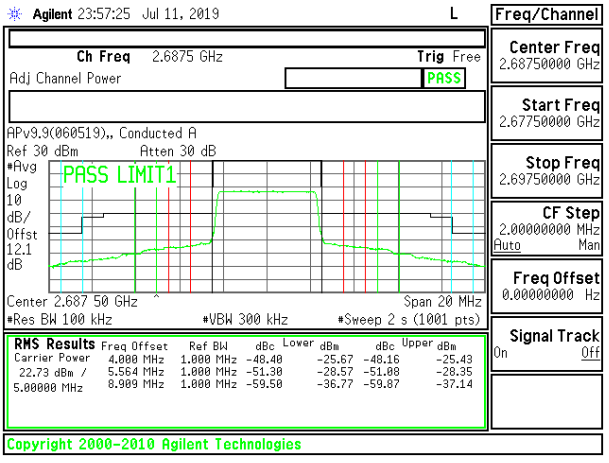


LTE B41 5MHz 16QAM High Channel RB1-24



LTE B41 5MHz QPSK High Channel RB25-0



LTE B41 5MHz 16QAM High Channel RB25-0

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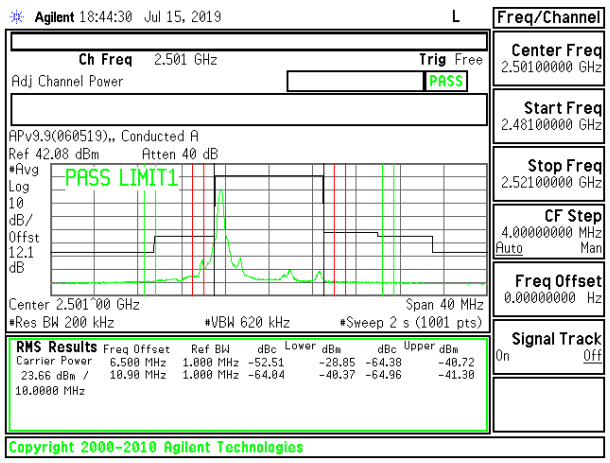
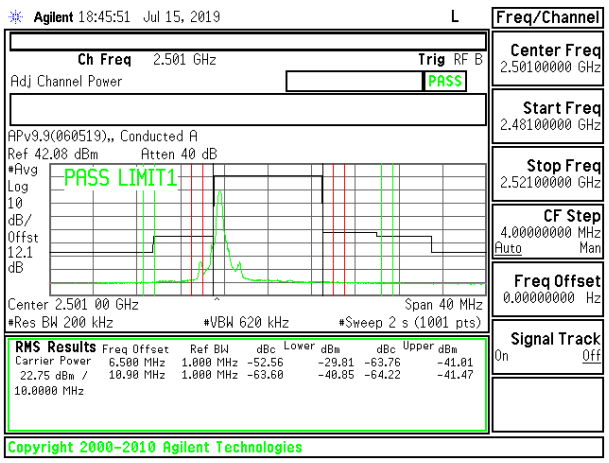
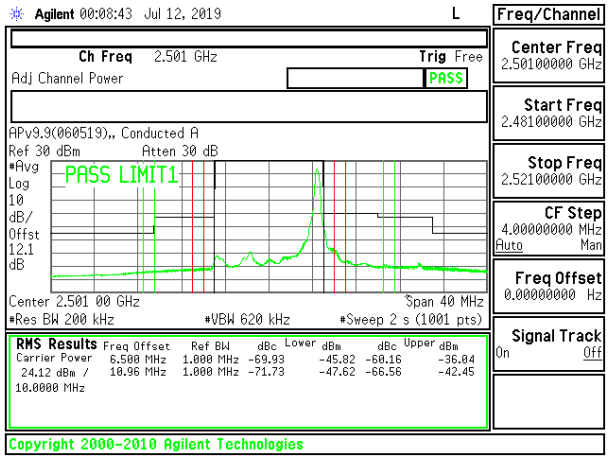


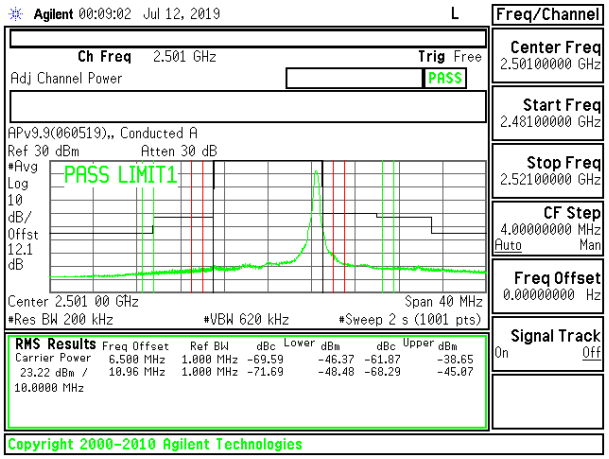
LTE B41 10MHz QPSK Low Channel RB1-0



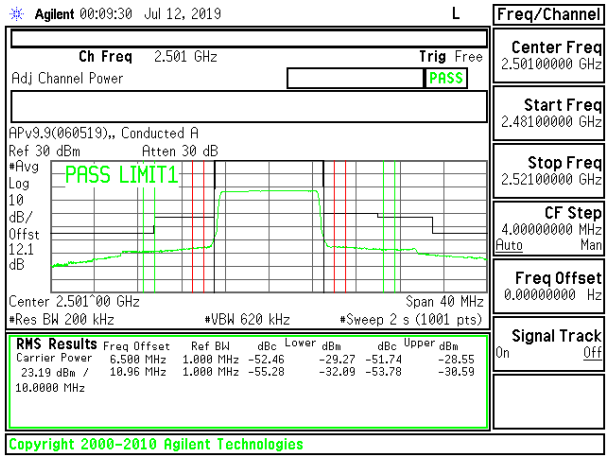
LTE B41 10MHz 16QAM Low Channel RB1-0



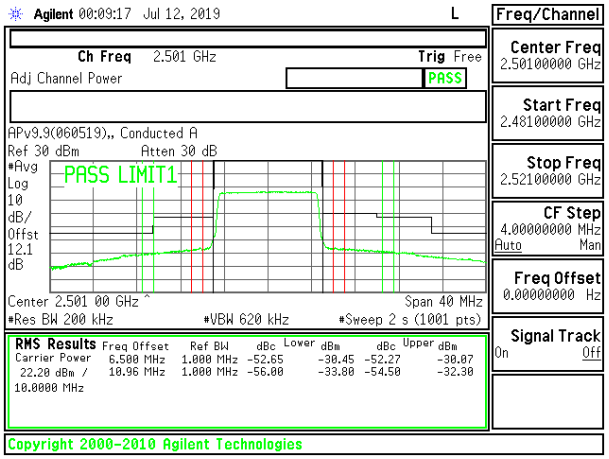
LTE B41 10MHz QPSK Low Channel RB1-49



LTE B41 10MHz 16QAM Low Channel RB1-49



LTE B41 10MHz QPSK Low Channel RB50-0



LTE B41 10MHz 16QAM Low Channel RB50-0

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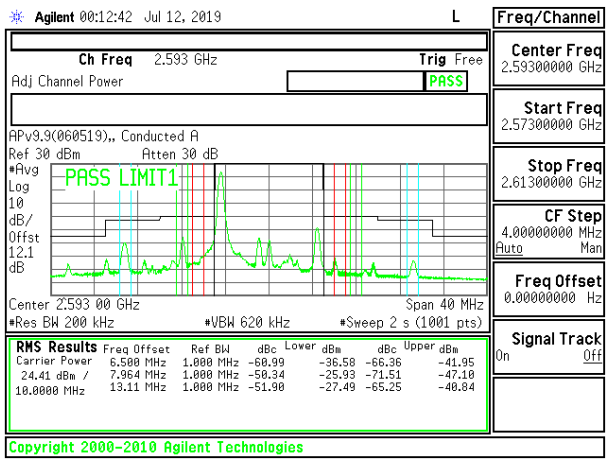
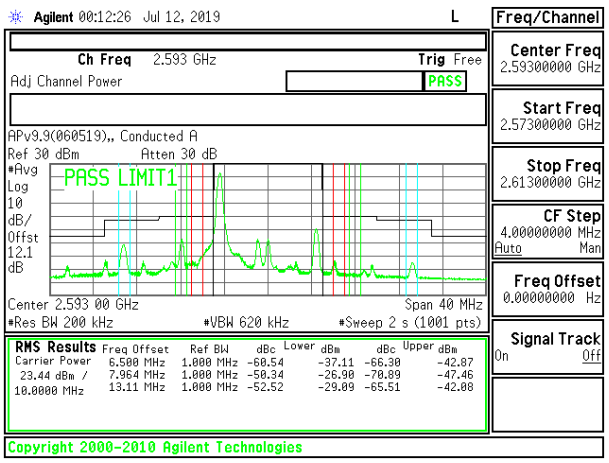
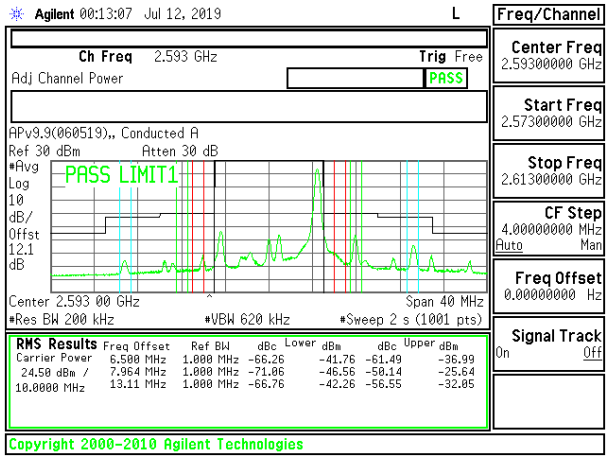


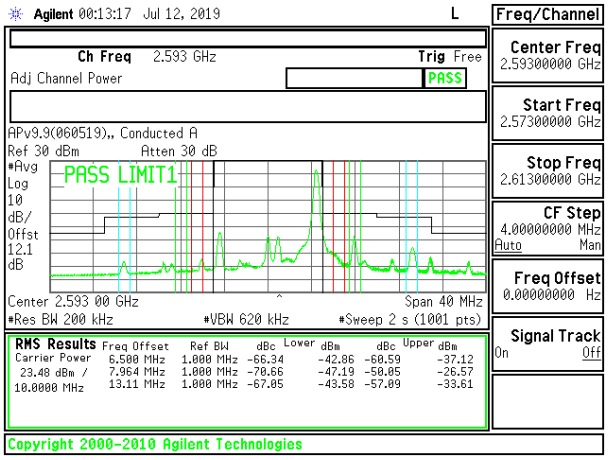
LTE B41 10MHz QPSK Middle Channel RB1-0



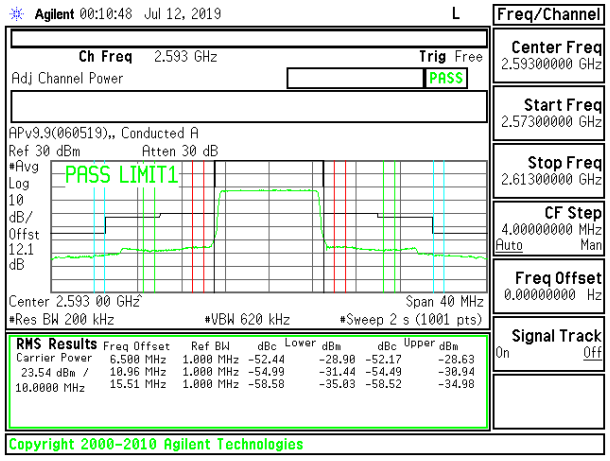
LTE B41 10MHz 16QAM Middle Channel RB1-0



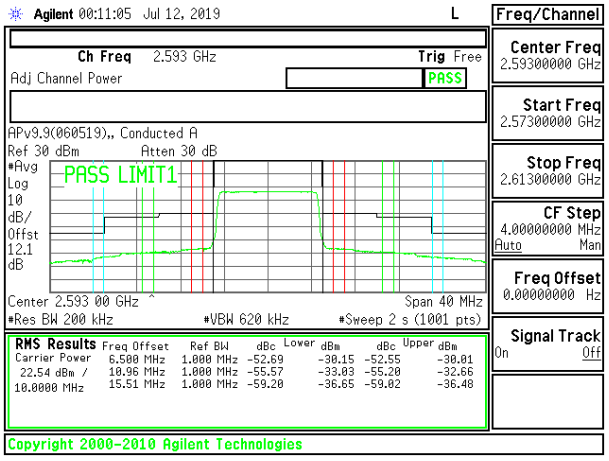
LTE B41 10MHz QPSK Middle Channel RB1-49



LTE B41 10MHz 16QAM Middle Channel RB1-49



LTE B41 10MHz QPSK Middle Channel RB50-0



LTE B41 10MHz 16QAM Middle Channel RB50-0

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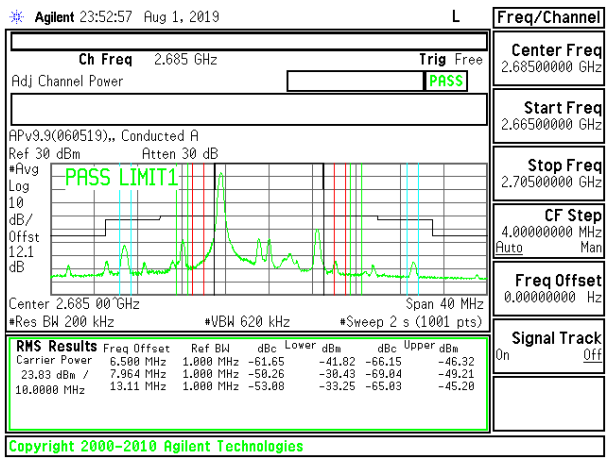
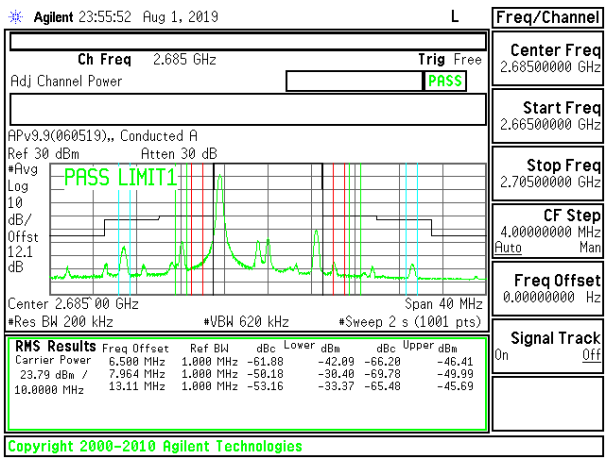
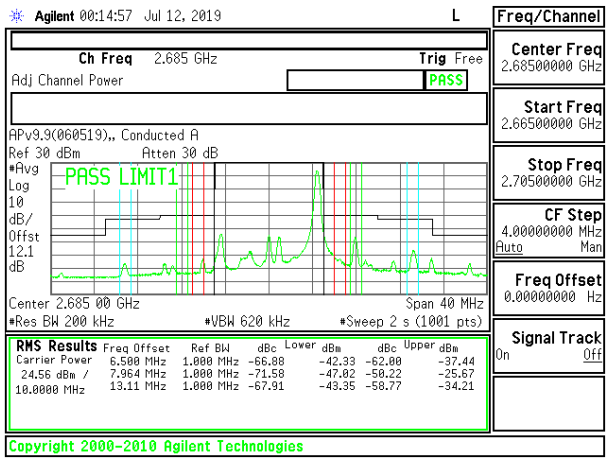


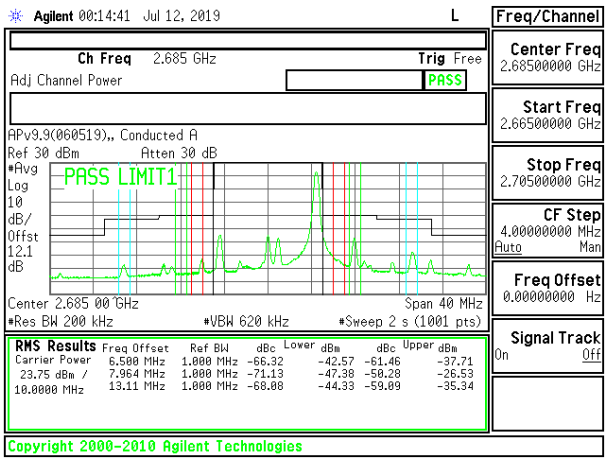
LTE B41 10MHz QPSK High Channel RB1-0



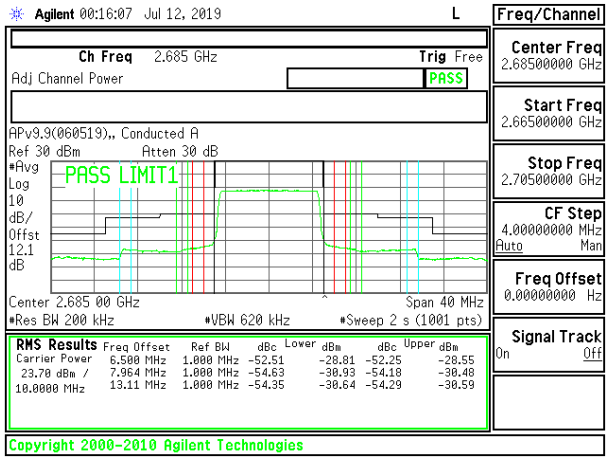
LTE B41 10MHz 16QAM High Channel RB1-0



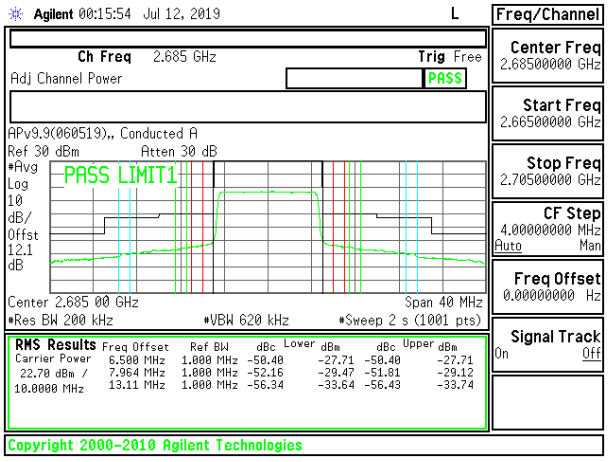
LTE B41 10MHz QPSK High Channel RB1-49



LTE B41 10MHz 16QAM High Channel RB1-49



LTE B41 10MHz QPSK High Channel RB50-0



LTE B41 10MHz 16QAM High Channel RB50-0

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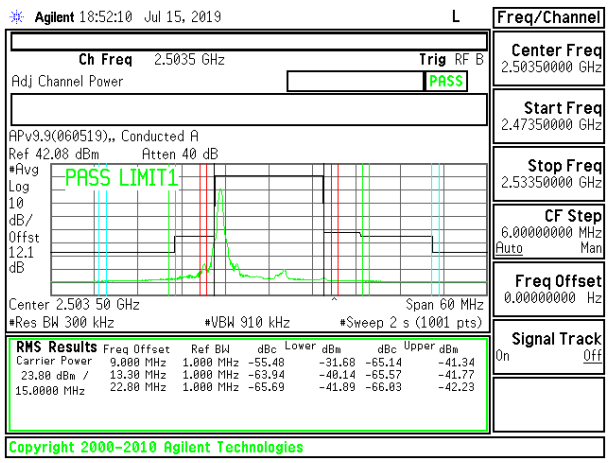
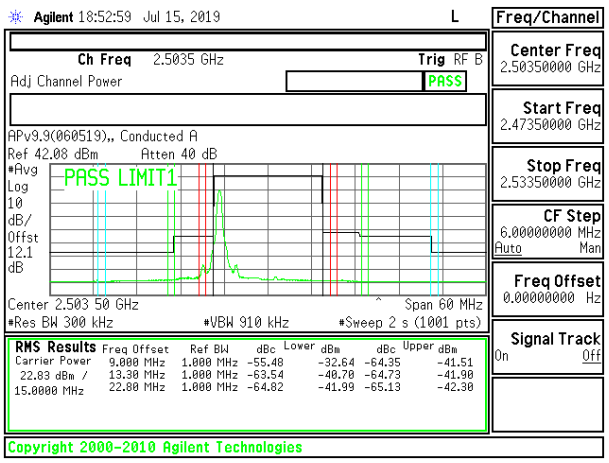
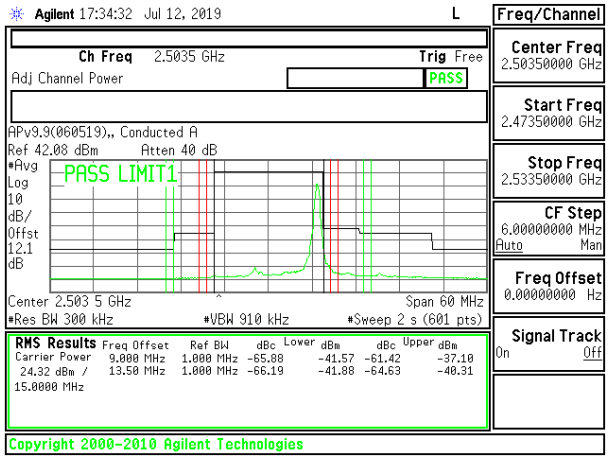


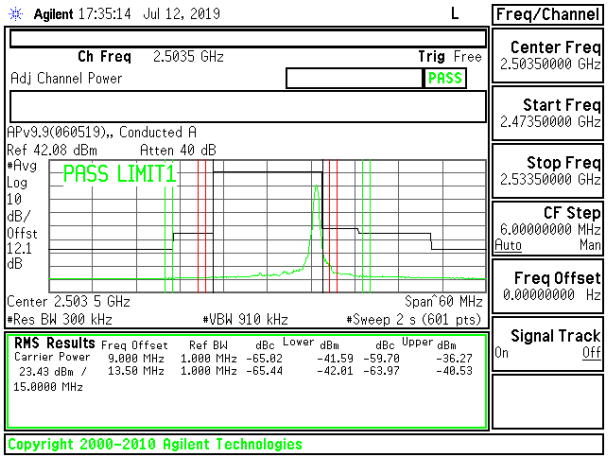
LTE B41 15MHz QPSK Low Channel RB1-0



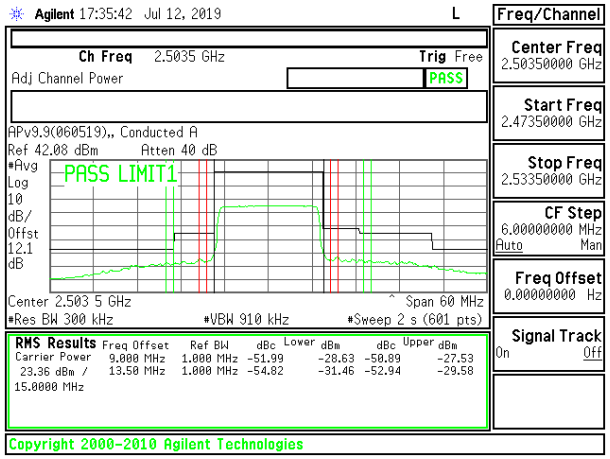
LTE B41 15MHz 16QAM Low Channel RB1-0



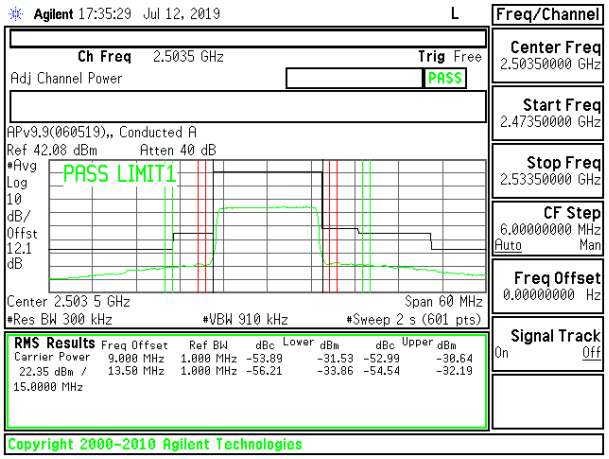
LTE B41 15MHz QPSK Low Channel RB1-74



LTE B41 15MHz 16QAM Low Channel RB1-74



LTE B41 15MHz QPSK Low Channel RB75-0



LTE B41 15MHz 16QAM Low Channel RB75-0

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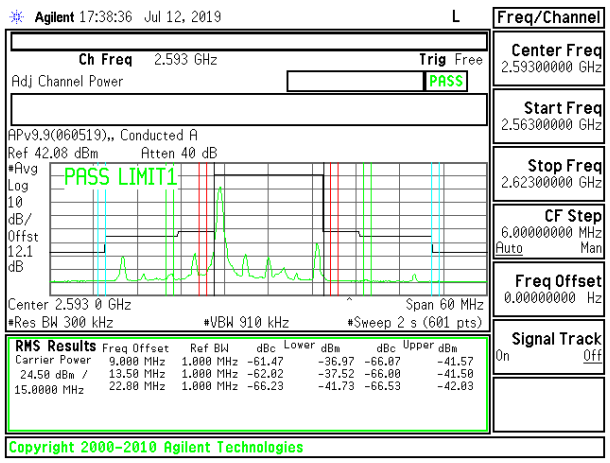
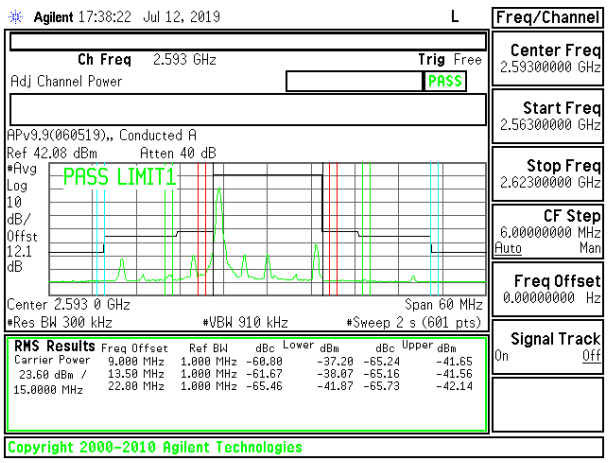
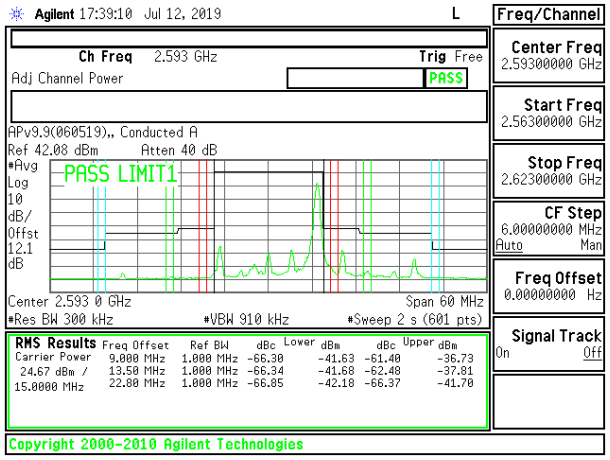


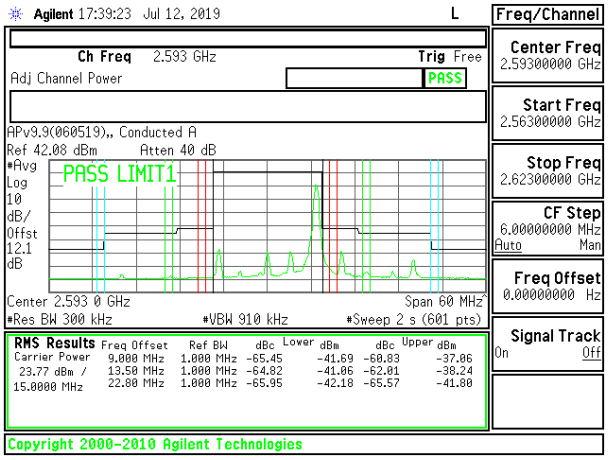
LTE B41 15MHz QPSK Middle Channel RB1-0



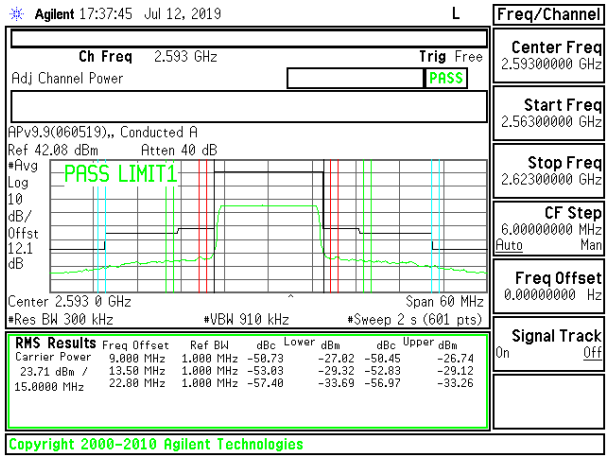
LTE B41 15MHz 16QAM Middle Channel RB1-0



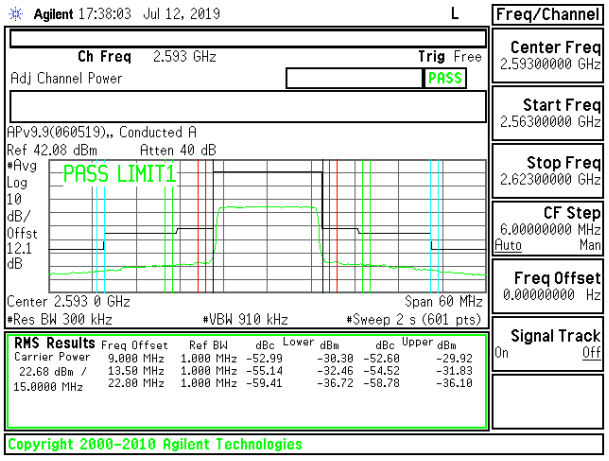
LTE B41 15MHz QPSK Middle Channel RB1-74



LTE B41 15MHz 16QAM Middle Channel RB1-74



LTE B41 15MHz QPSK Middle Channel RB75-0



LTE B41 15MHz 16QAM Middle Channel RB75-0

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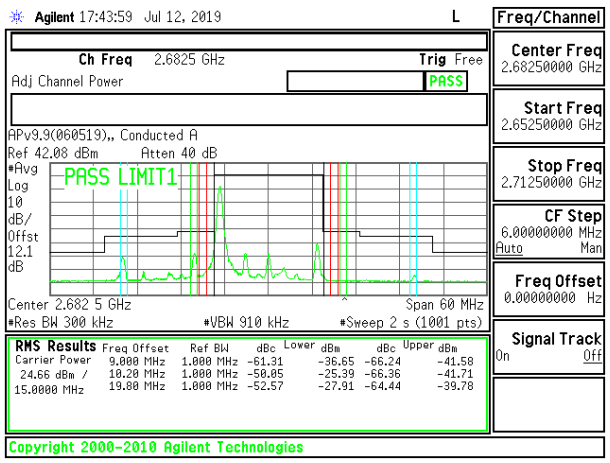
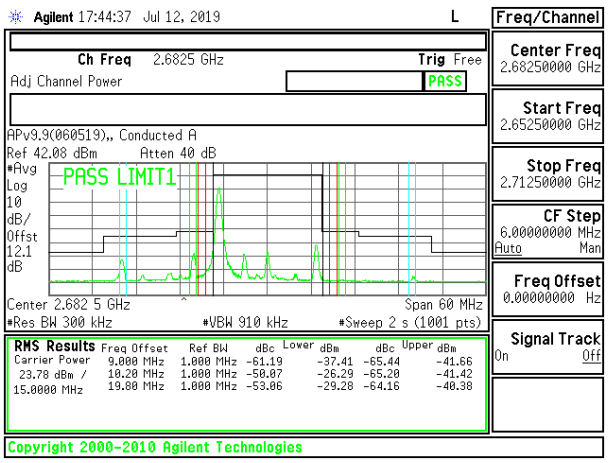
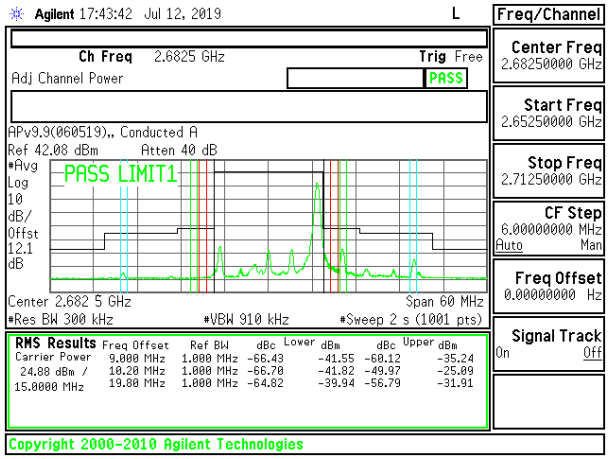


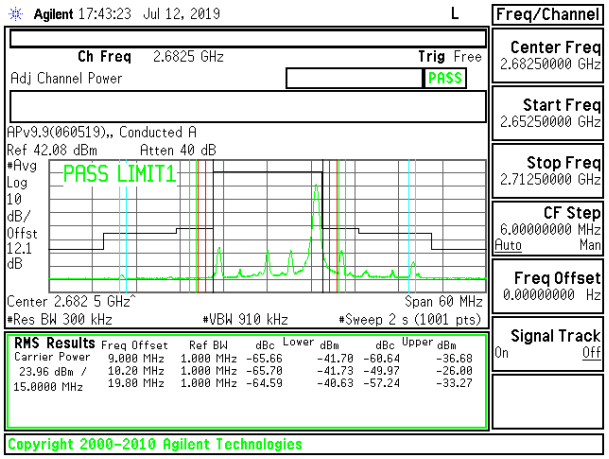
LTE B41 15MHz QPSK High Channel RB1-0



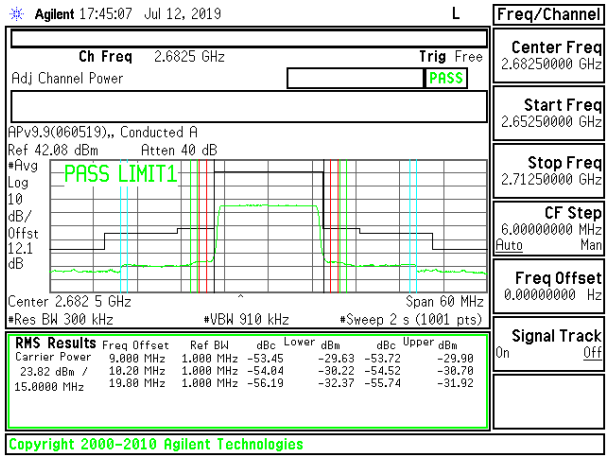
LTE B41 15MHz 16QAM High Channel RB1-0



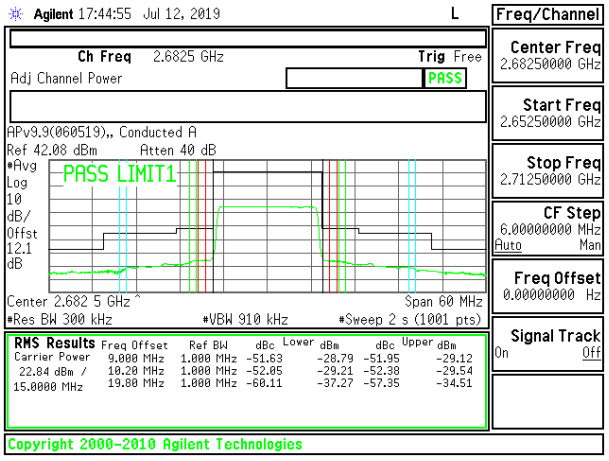
LTE B41 15MHz QPSK High Channel RB1-74



LTE B41 15MHz 16QAM High Channel RB1-74



LTE B41 15MHz QPSK High Channel RB75-0



LTE B41 15MHz 16QAM High Channel RB75-0

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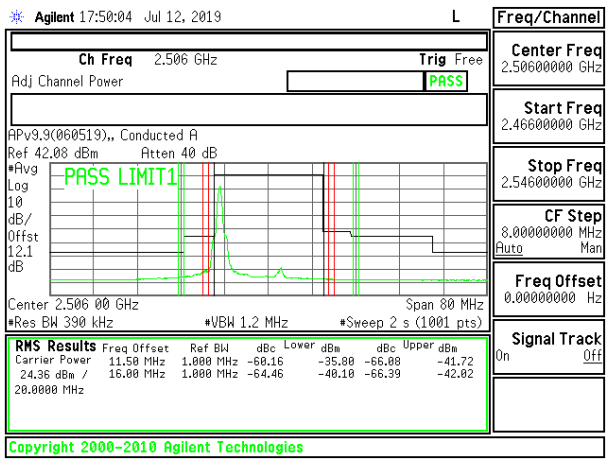
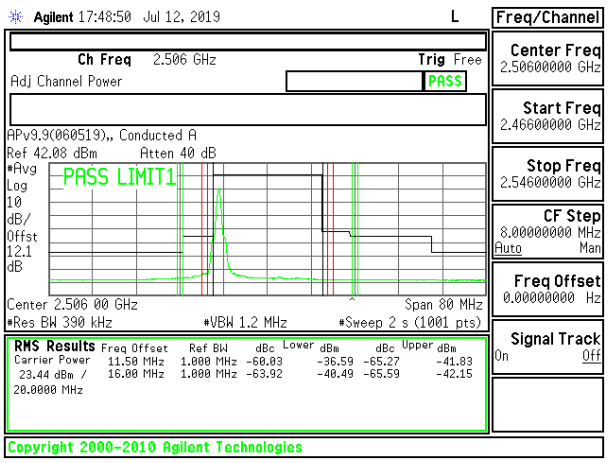
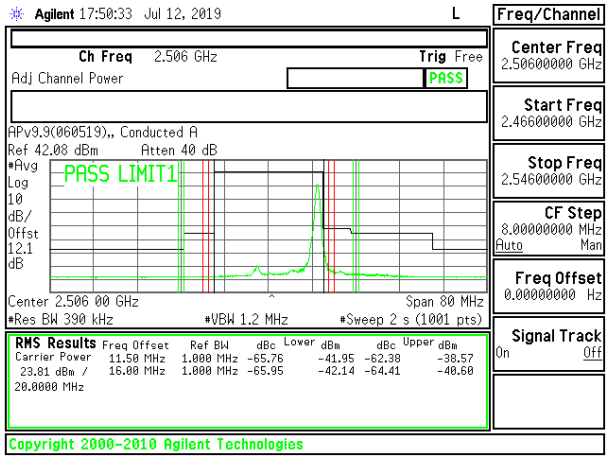


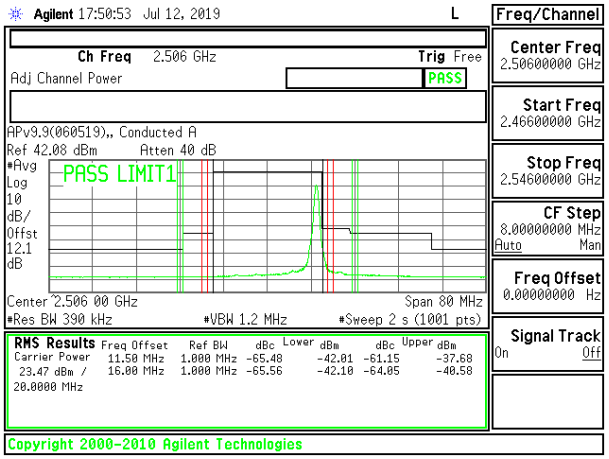
LTE B41 20MHz QPSK Low Channel RB1-0



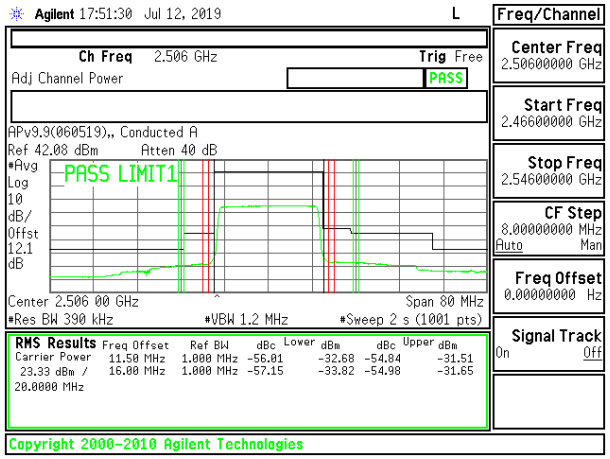
LTE B41 20MHz 16QAM Low Channel RB1-0



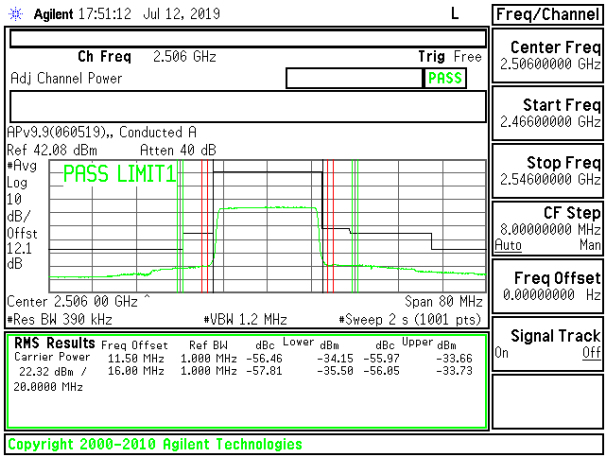
LTE B41 20MHz QPSK Low Channel RB1-99



LTE B41 20MHz 16QAM Low Channel RB1-99



LTE B41 20MHz QPSK Low Channel RB100-0



LTE B41 20MHz 16QAM Low Channel RB100-0

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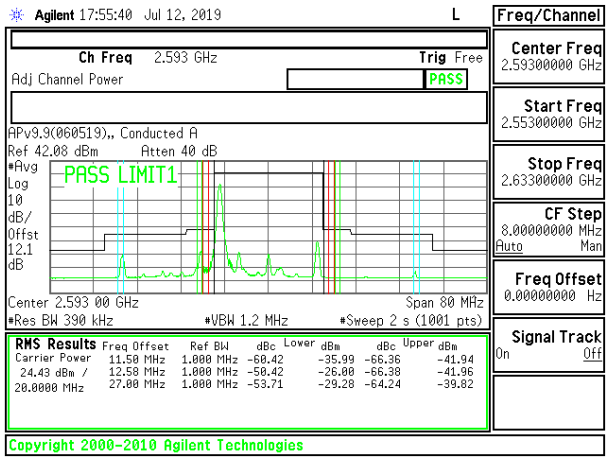

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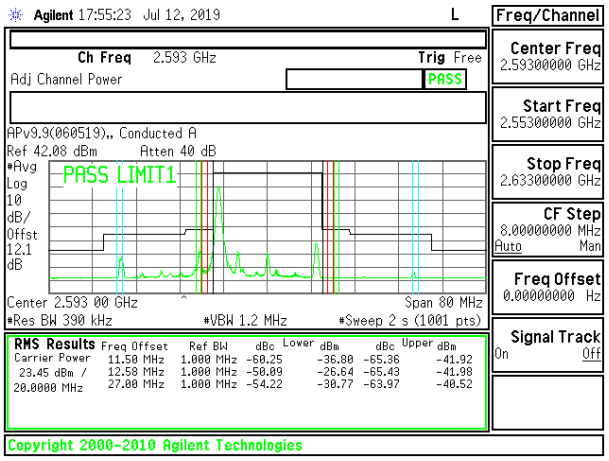

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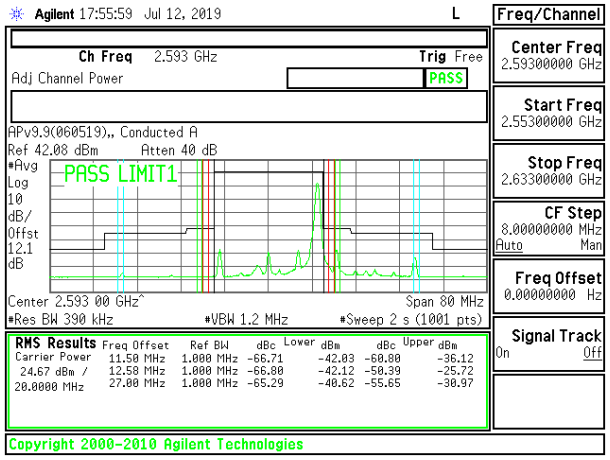

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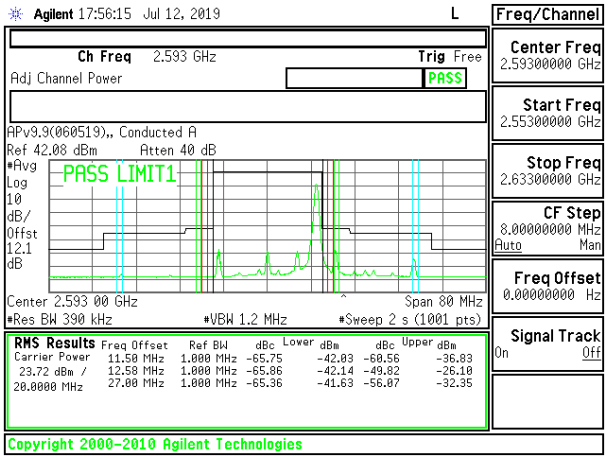

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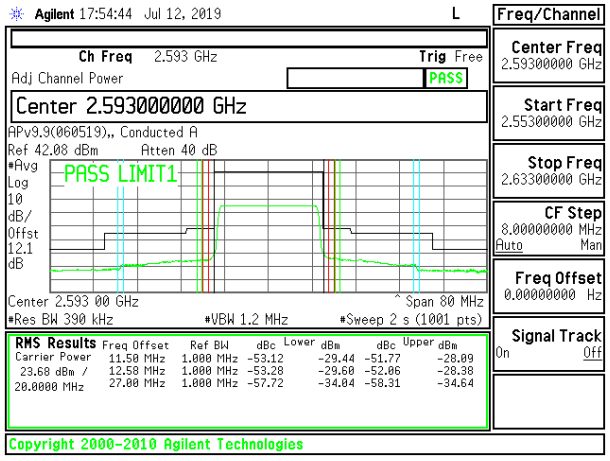
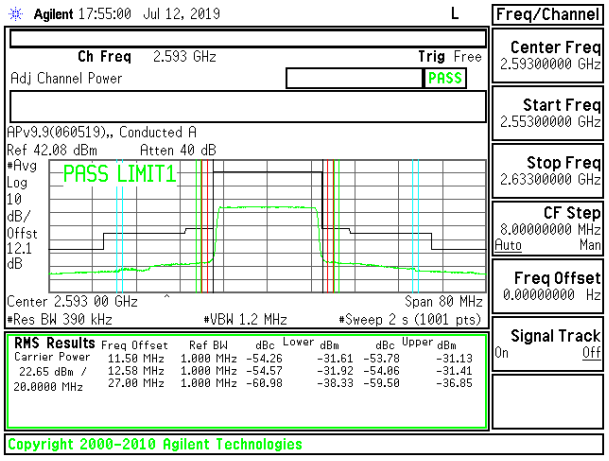


LTE B41 20MHz QPSK Middle Channel RB100-0



LTE B41 20MHz 16QAM Middle Channel RB100-0

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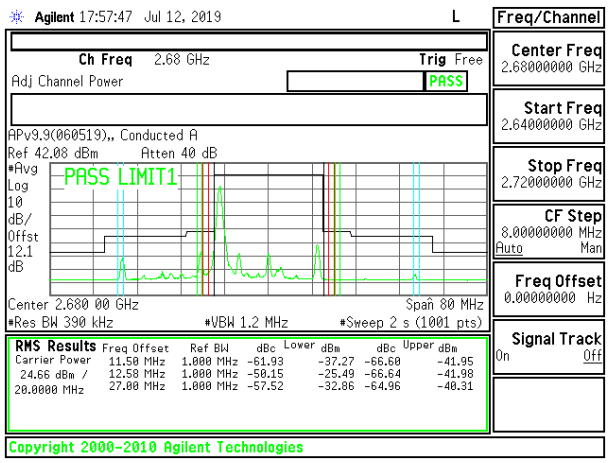
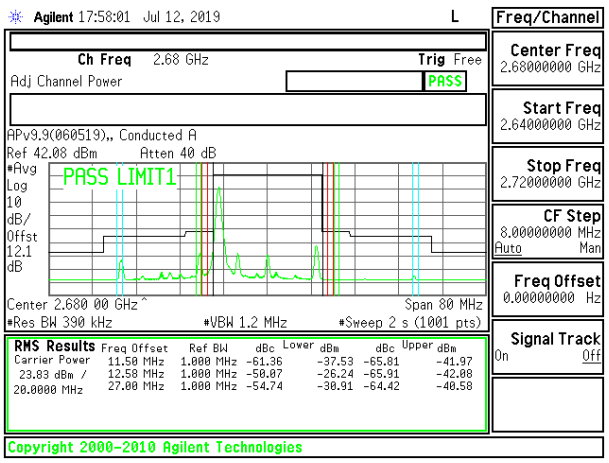
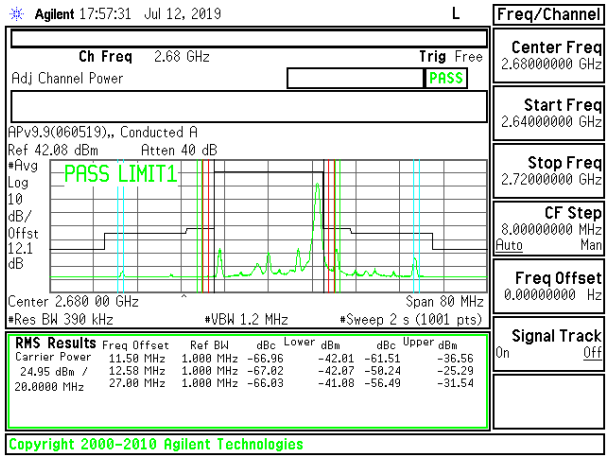


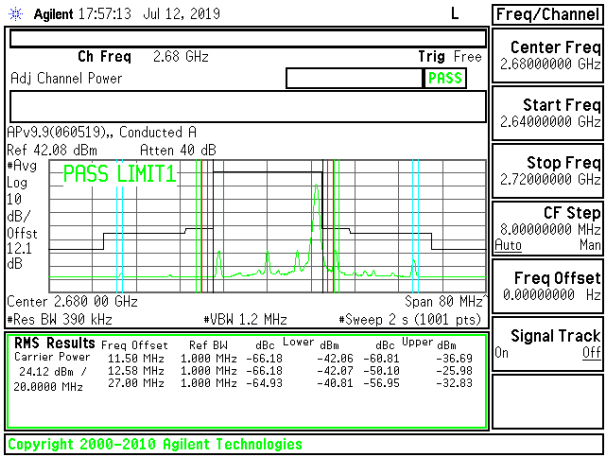
LTE B41 20MHz QPSK High Channel RB1-0



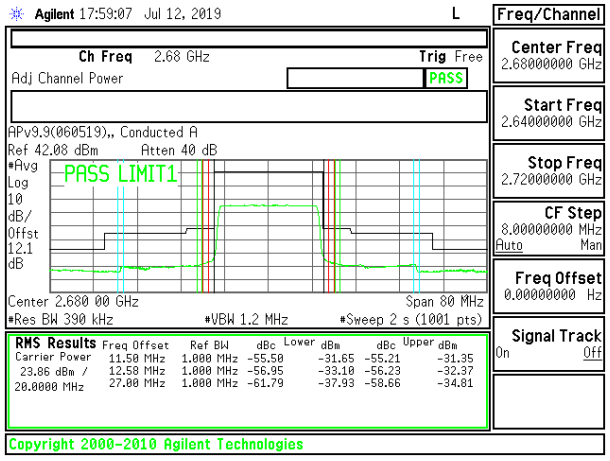
LTE B41 20MHz 16QAM High Channel RB1-0



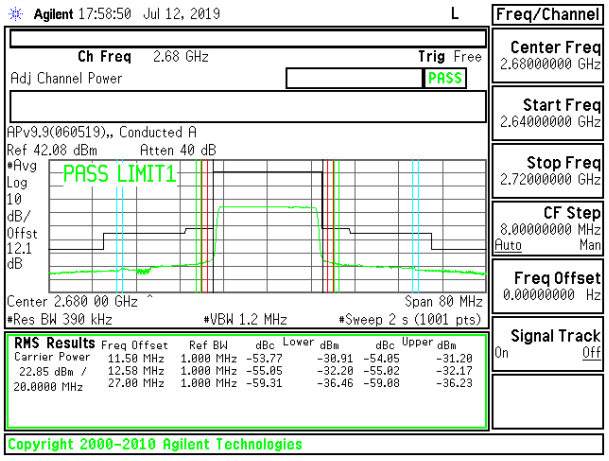
LTE B41 20MHz QPSK High Channel RB1-99



LTE B41 20MHz 16QAM High Channel RB1-99



LTE B41 20MHz QPSK High Channel RB100-0



LTE B41 20MHz 16QAM High Channel RB100-0

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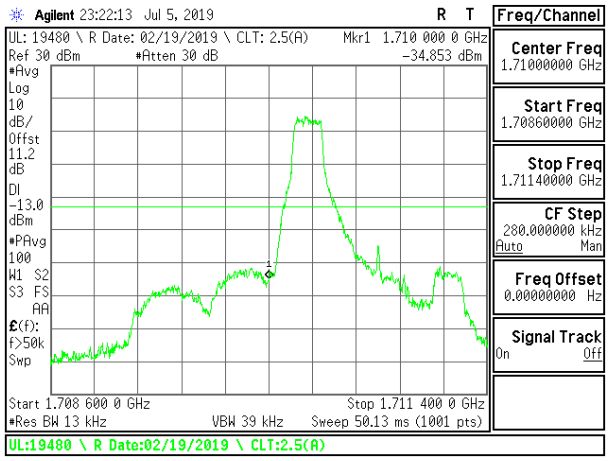
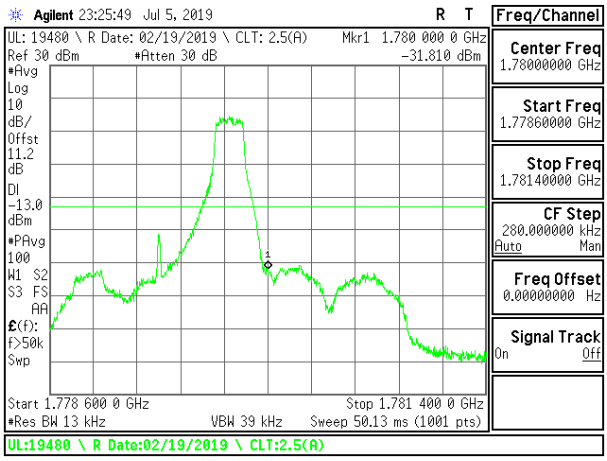
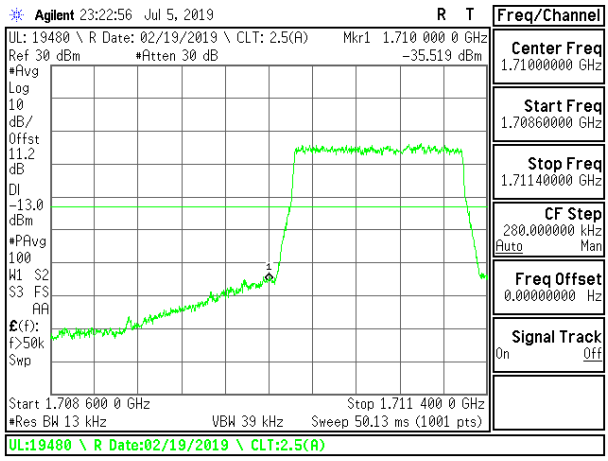
8.2.13. LTE BAND 66 BANDEDGE



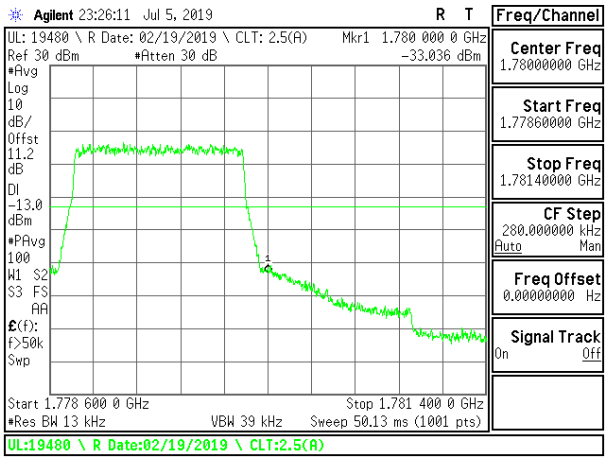
LTE B66 1.4MHz QPSK Low Channel RB1-0



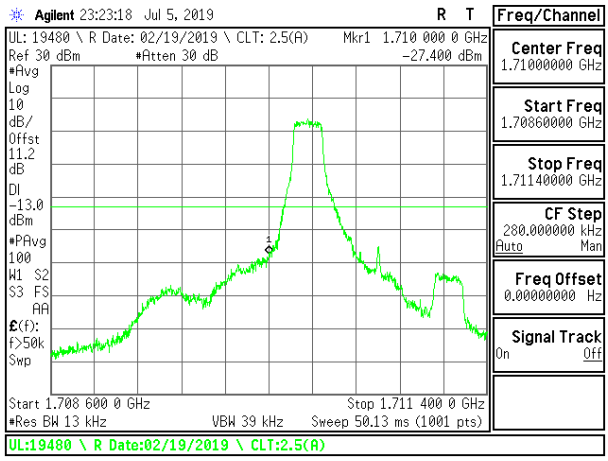
LTE B66 1.4MHz QPSK High Channel RB1-5



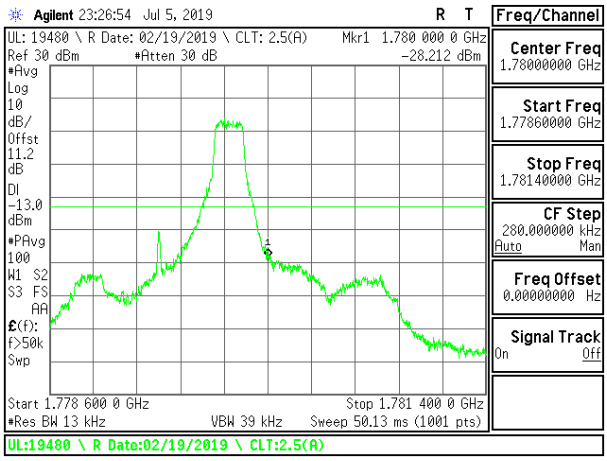
LTE B66 1.4MHz QPSK Low Channel RB6-0



LTE B66 1.4MHz QPSK High Channel RB6-0



LTE B66 1.4MHz 16QAM Low Channel RB1-0



LTE B66 1.4MHz 16QAM High Channel RB1-5

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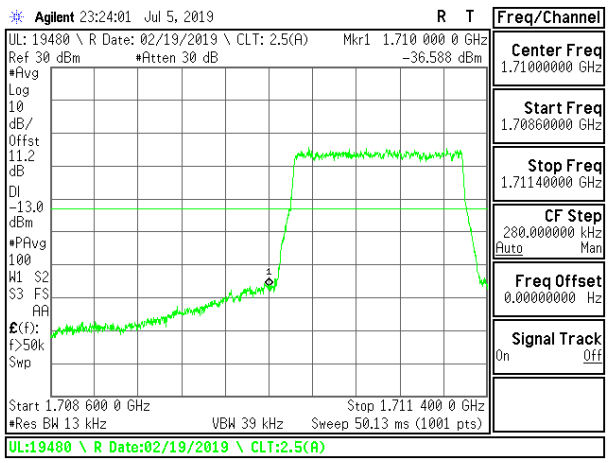
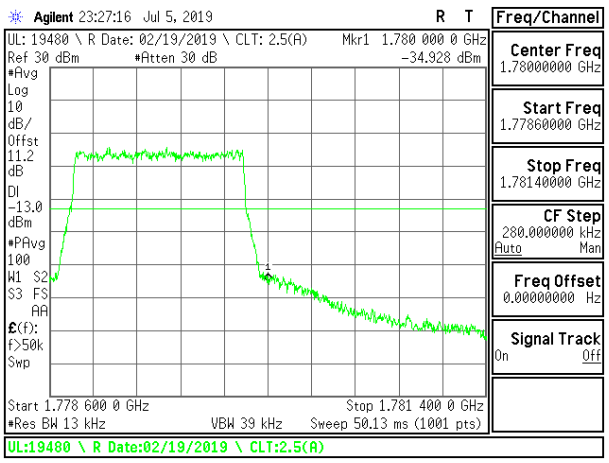
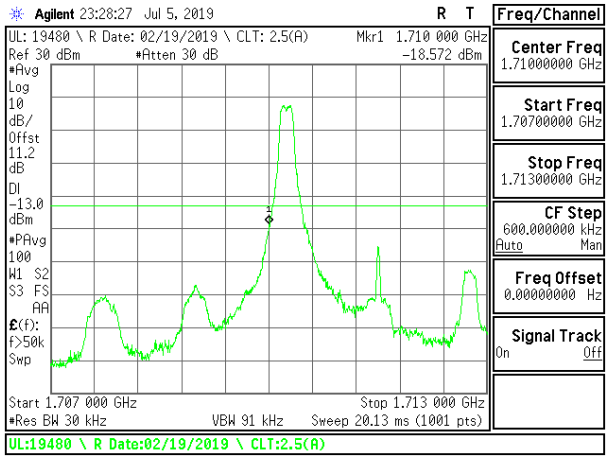


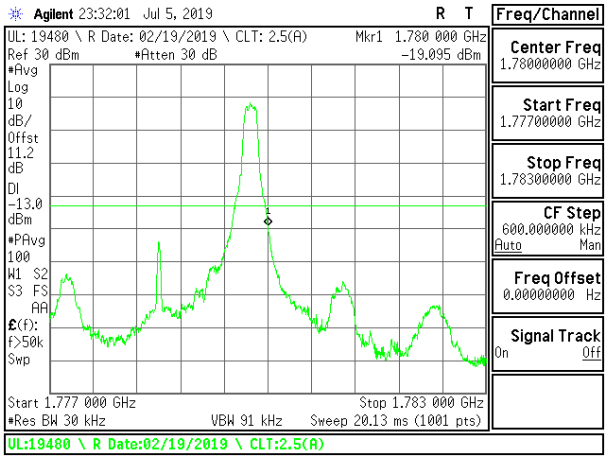
LTE B66 1.4MHz 16QAM Low Channel RB6-0



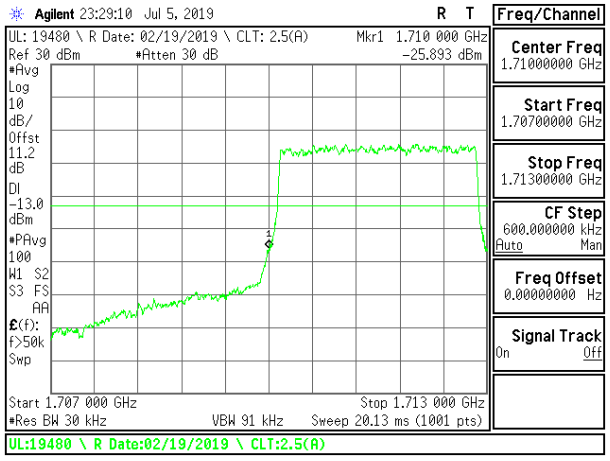
LTE B66 1.4MHz 16QAM High Channel RB6-0



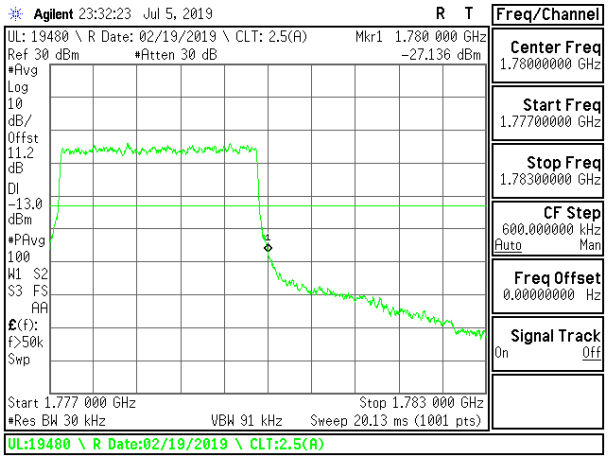
LTE B66 3MHz QPSK Low Channel RB1-0



LTE B66 3MHz QPSK High Channel RB1-14



LTE B66 3MHz QPSK Low Channel RB15-0



LTE B66 3MHz QPSK High Channel RB15-0

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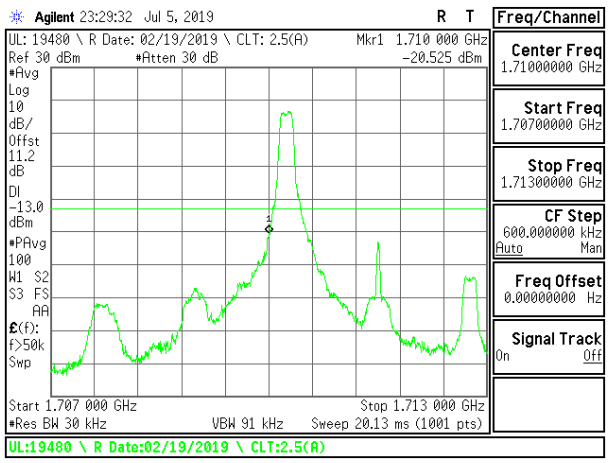
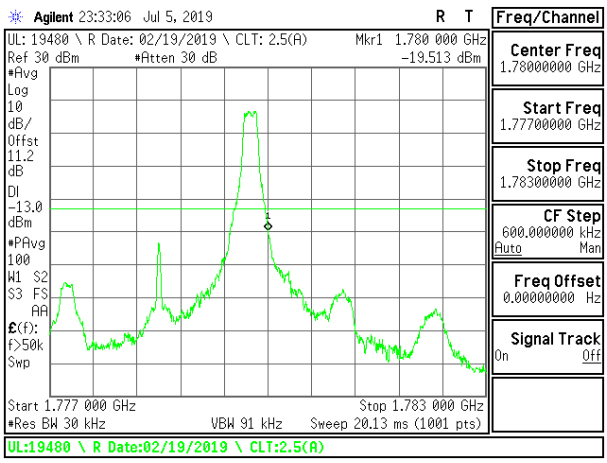
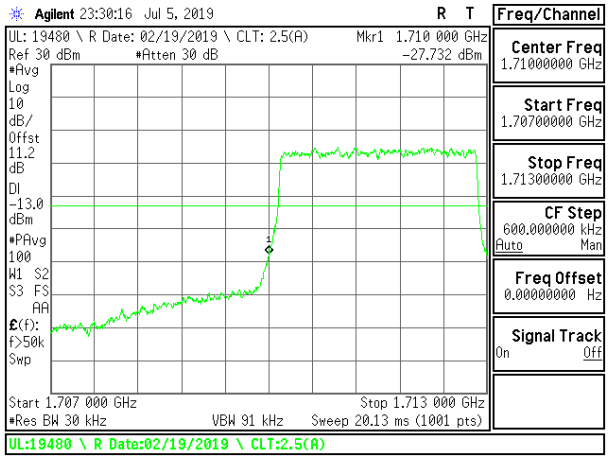


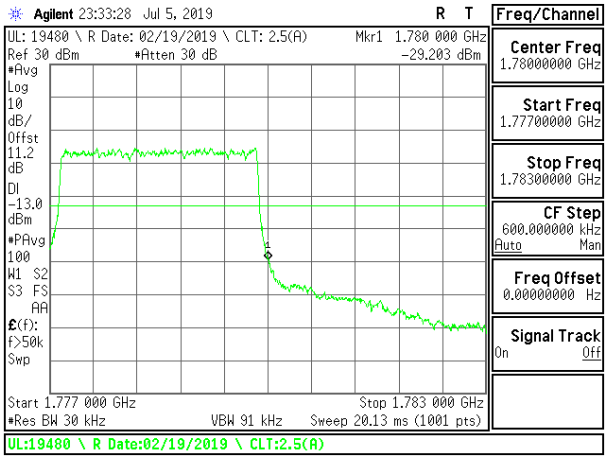
LTE B66 3MHz 16QAM Low Channel RB1-0



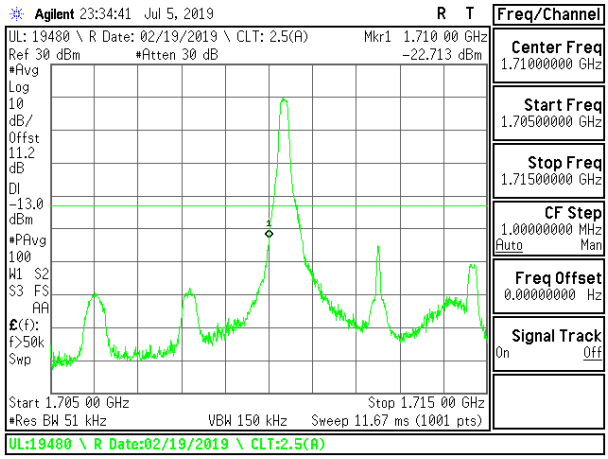
LTE B66 3MHz 16QAM High Channel RB1-14



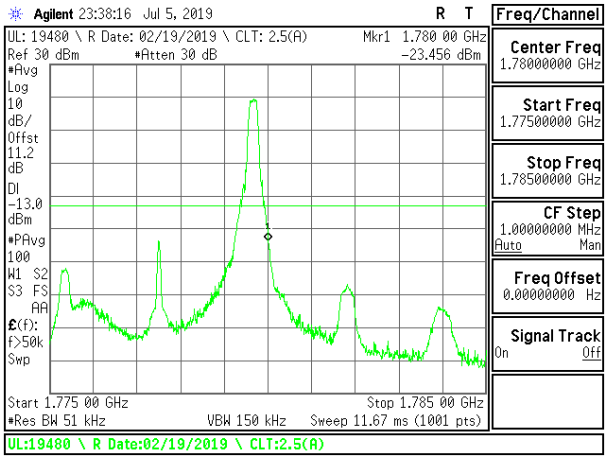
LTE B66 3MHz 16QAM Low Channel RB15-0



LTE B66 3MHz 16QAM High Channel RB15-0



LTE B66 5MHz QPSK Low Channel RB1-0



LTE B66 5MHz QPSK High Channel RB1-24

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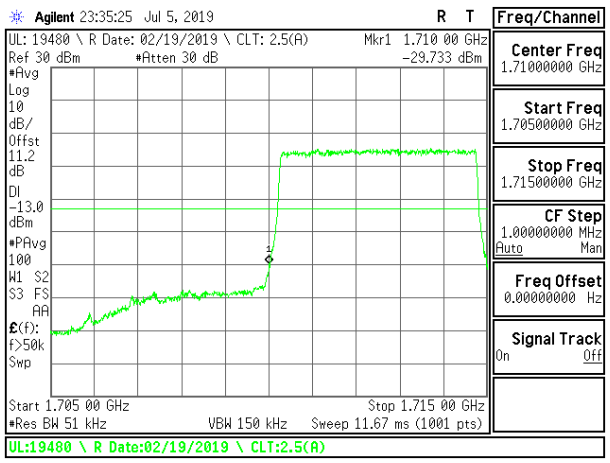
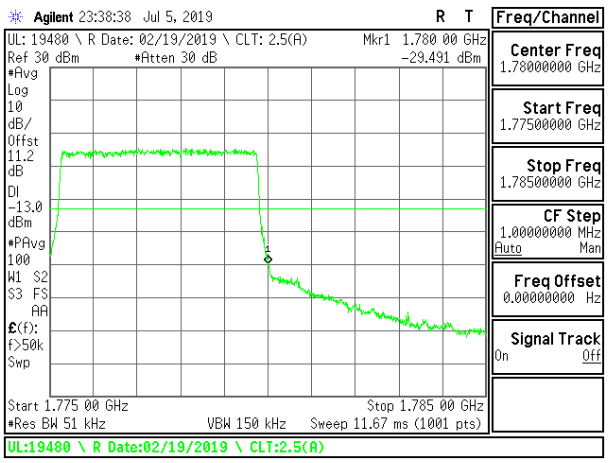
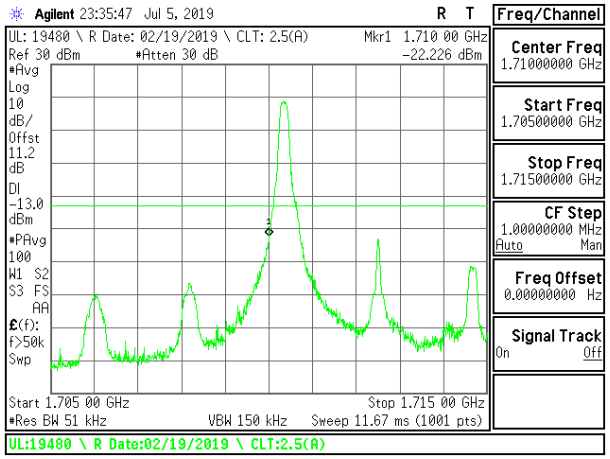


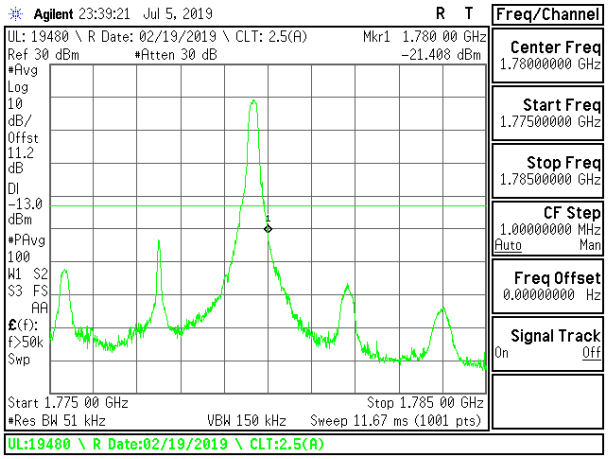
LTE B66 5MHz QPSK Low Channel RB25-0



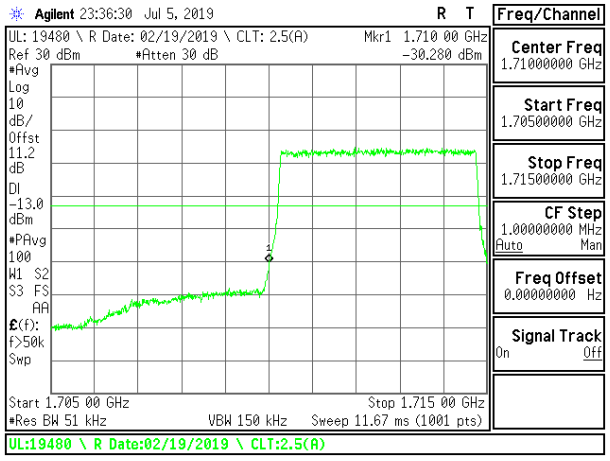
LTE B66 5MHz QPSK High Channel RB25-0



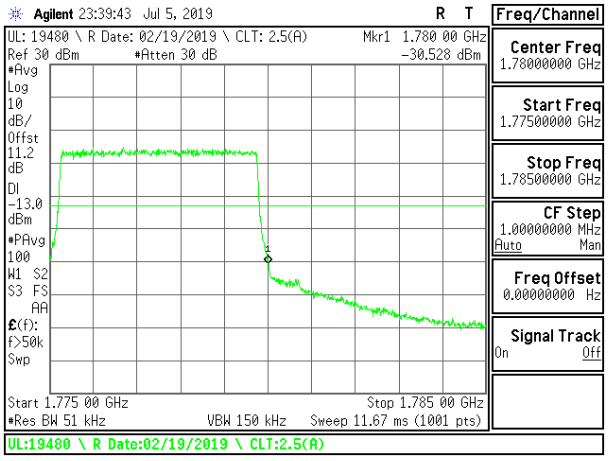
LTE B66 5MHz 16QAM Low Channel RB1-0



LTE B66 5MHz 16QAM High Channel RB1-24



LTE B66 5MHz 16QAM Low Channel RB25-0



LTE B66 5MHz 16QAM High Channel RB25-0

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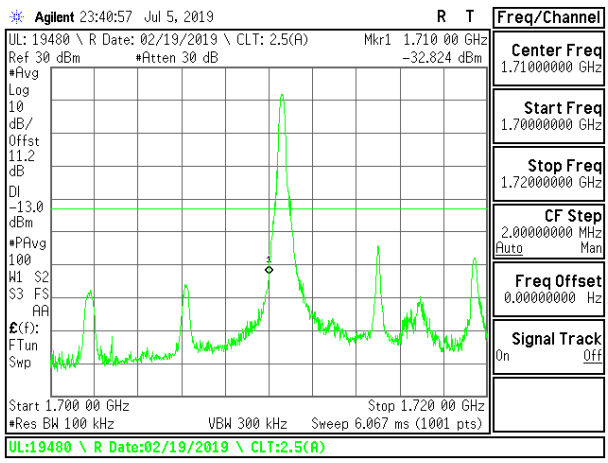
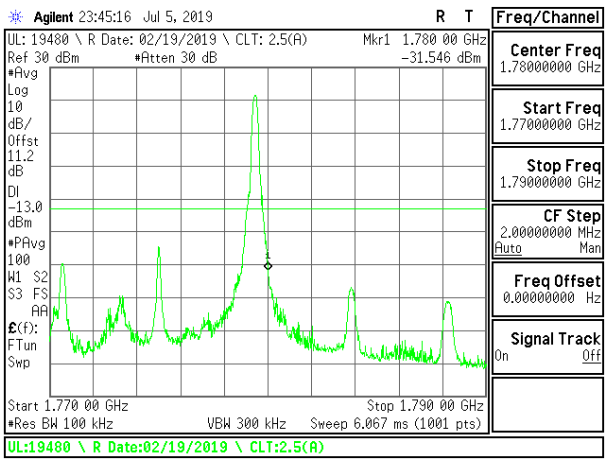
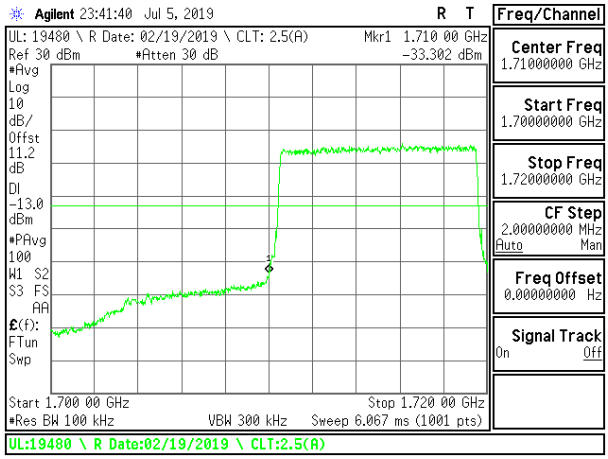


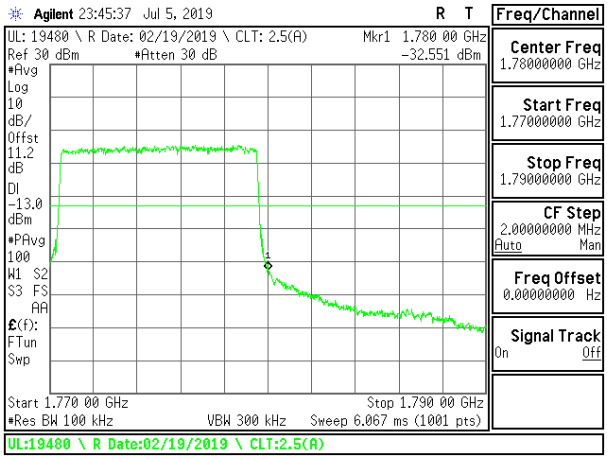
LTE B66 10MHz QPSK Low Channel RB1-0



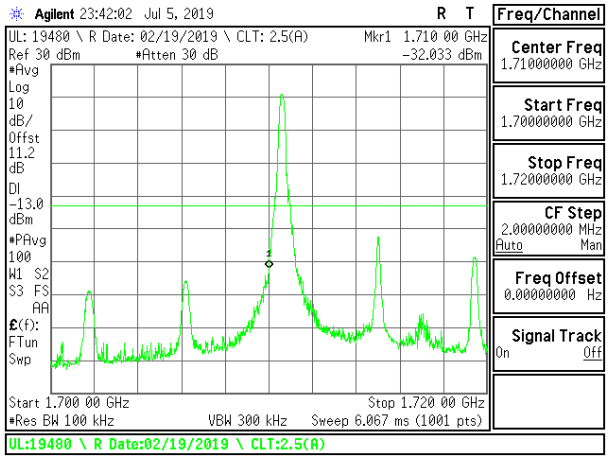
LTE B66 10MHz QPSK High Channel RB1-49



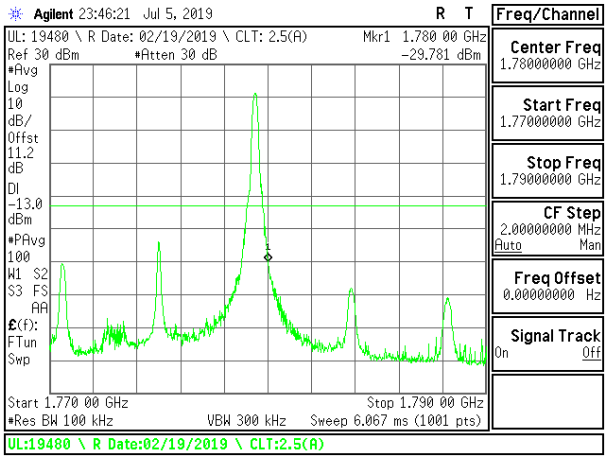
LTE B66 10MHz QPSK Low Channel RB50-0



LTE B66 10MHz QPSK High Channel RB50-0



LTE B66 10MHz 16QAM Low Channel RB1-0



LTE B66 10MHz 16QAM High Channel RB1-49

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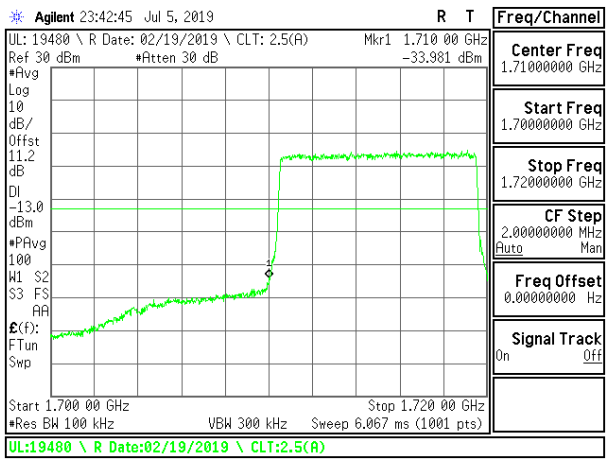
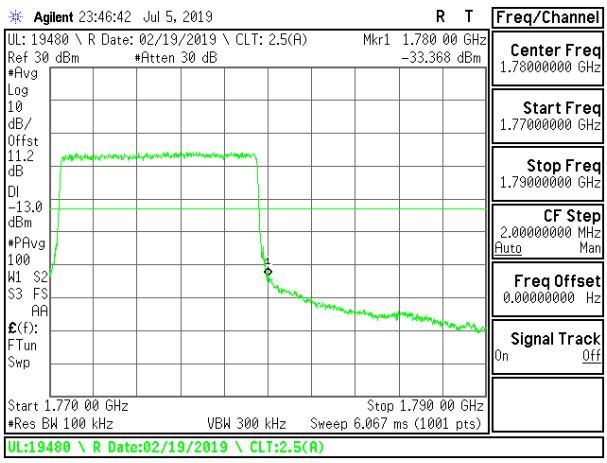
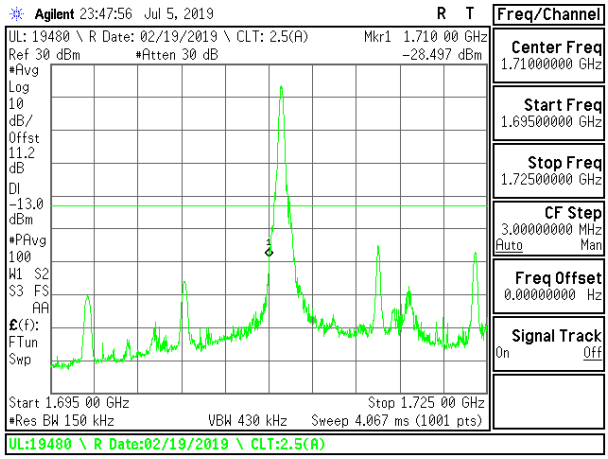


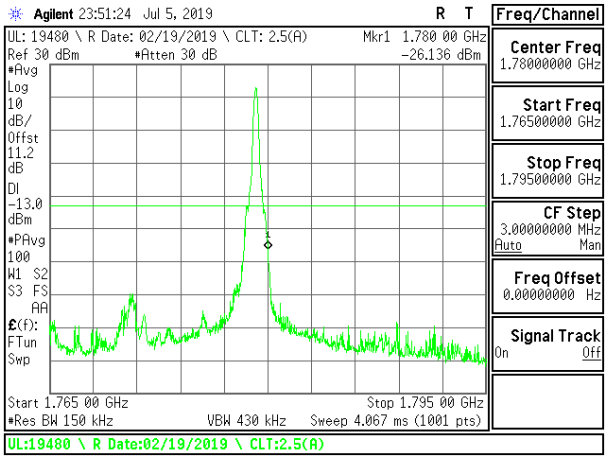
LTE B66 10MHz 16QAM Low Channel RB50-0



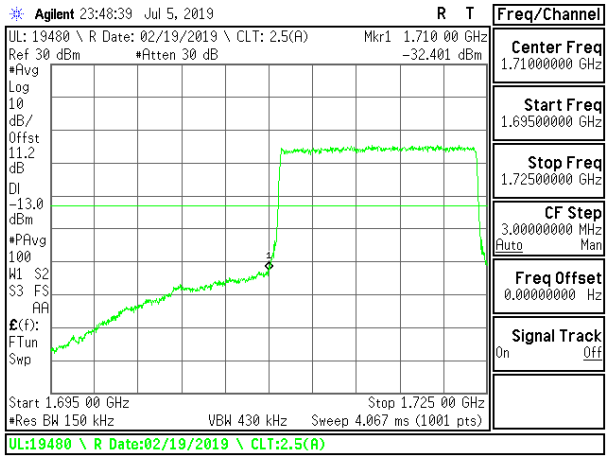
LTE B66 10MHz 16QAM High Channel RB50-0



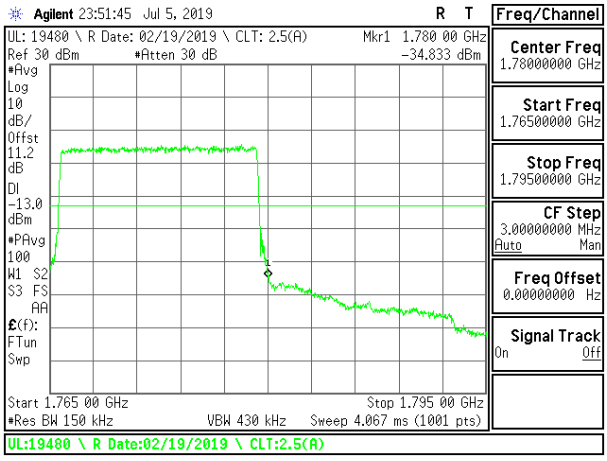
LTE B66 15MHz QPSK Low Channel RB1-0



LTE B66 15MHz QPSK High Channel RB1-74



LTE B66 15MHz QPSK Low Channel RB75-0



LTE B66 15MHz QPSK High Channel RB75-0

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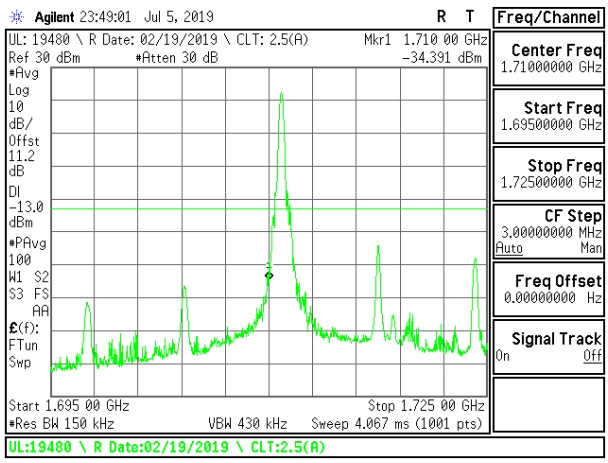
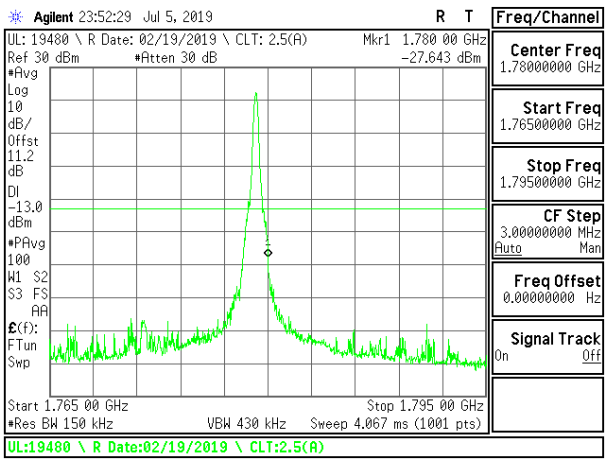
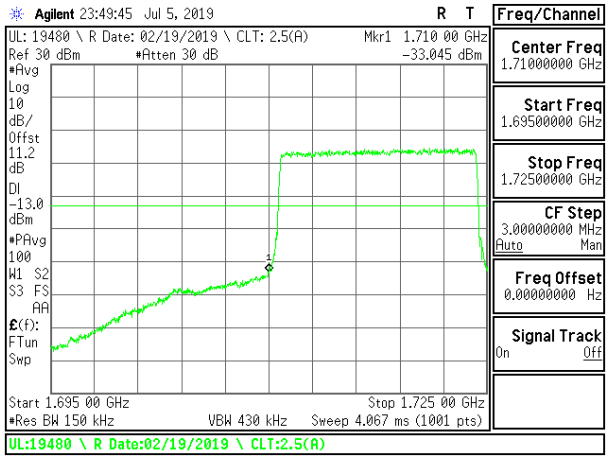


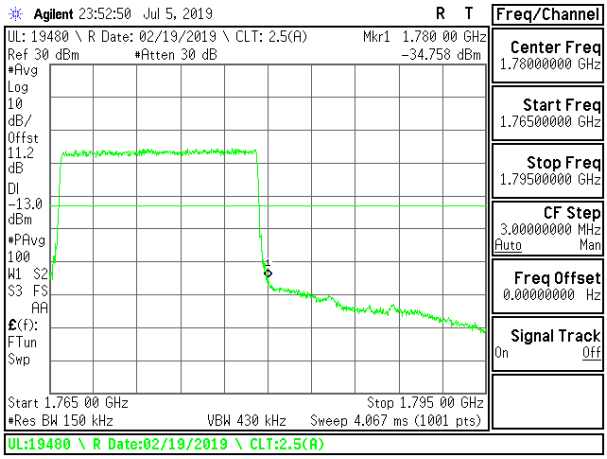
LTE B66 15MHz 16QAM Low Channel RB1-0



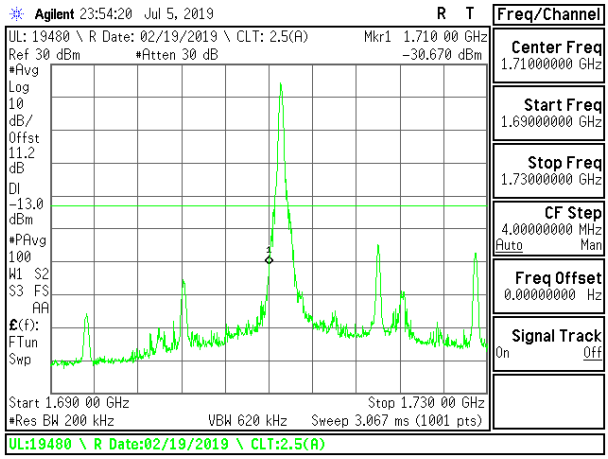
LTE B66 15MHz 16QAM High Channel RB1-74



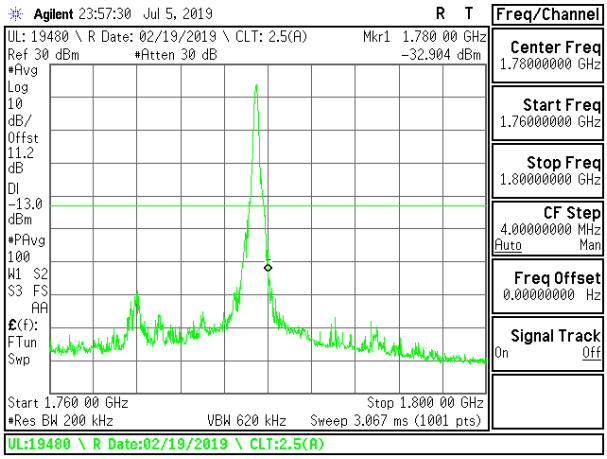
LTE B66 15MHz 16QAM Low Channel RB75-0



LTE B66 15MHz 16QAM High Channel RB75-0



LTE B66 20MHz QPSK Low Channel RB1-0



LTE B66 20MHz QPSK High Channel RB1-99

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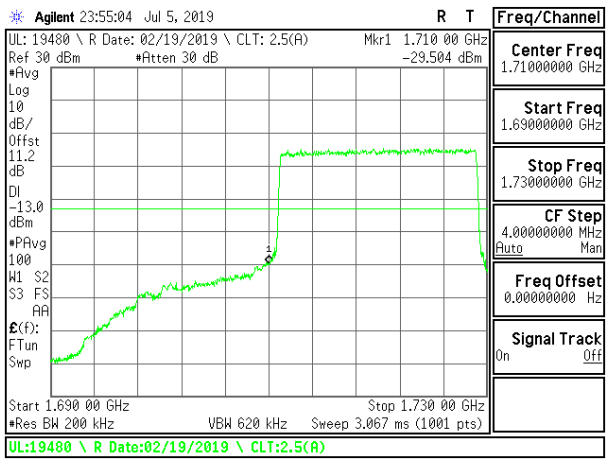
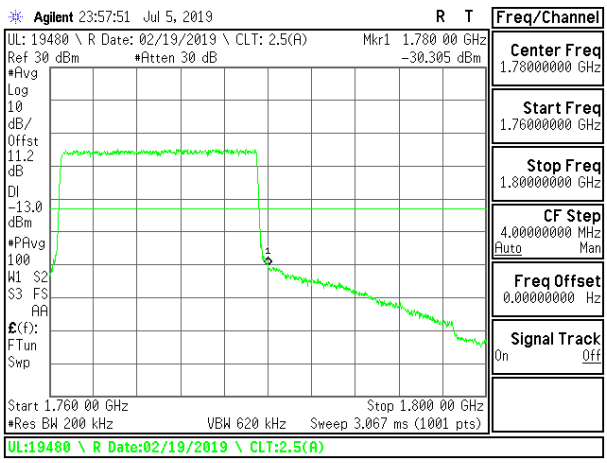
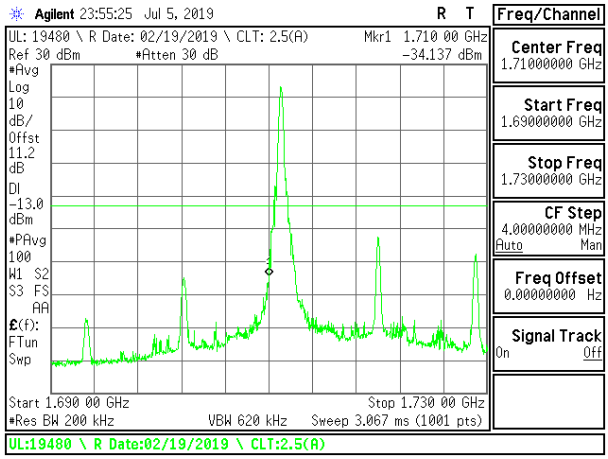


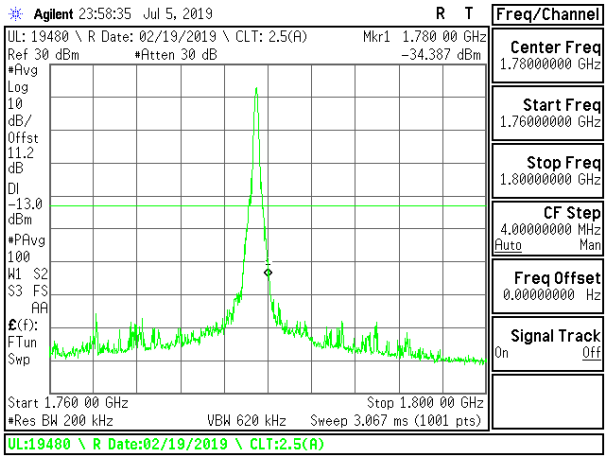
LTE B66 20MHz QPSK Low Channel RB100-0



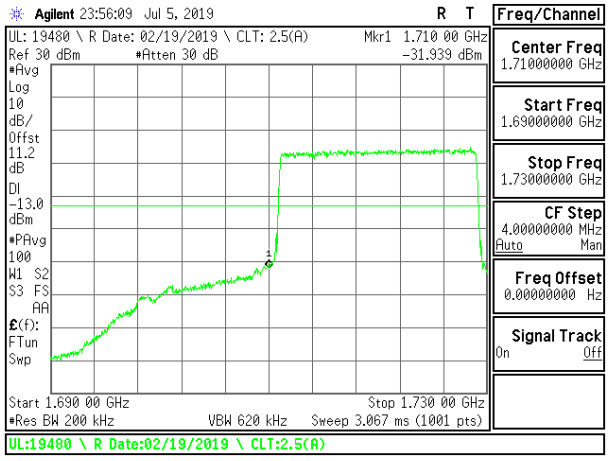
LTE B66 20MHz QPSK High Channel RB100-0



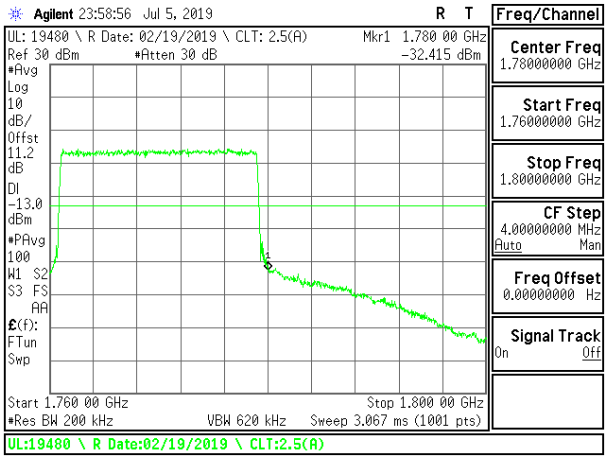
LTE B66 20MHz 16QAM Low Channel RB1-0



LTE B66 20MHz 16QAM High Channel RB1-99



LTE B66 20MHz 16QAM Low Channel RB100-0



LTE B66 20MHz 16QAM High Channel RB100-0

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8.3. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53, §90.691, §90.543

LIMITS

FCC: §22.917, §24.238, §27.53 (g), (h), §90.691, §90.543 (Band 14)
The minimum permissible attenuation level of any spurious emissions is 43 + 10 log (P) dB where transmitting power (P) in Watts.

FCC: §27.53 (c), (f) (Band 13)
The minimum permissible attenuation level of any spurious emissions is 43 + 10 log (P) dB where transmitting power (P) in Watts. The band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.
Note: Radiated data in section 9.1.6 confirms a compliance with narrowband limits for GPS1559-1610 MHz band.

FCC: §27.53 (a) (Band 30)
The minimum permissible attenuation level of any spurious emissions is 70 + 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

- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 14
- LTE Band 25
- LTE Band 26
- LTE Band 30
- LTE Band 41
- LTE Band 66

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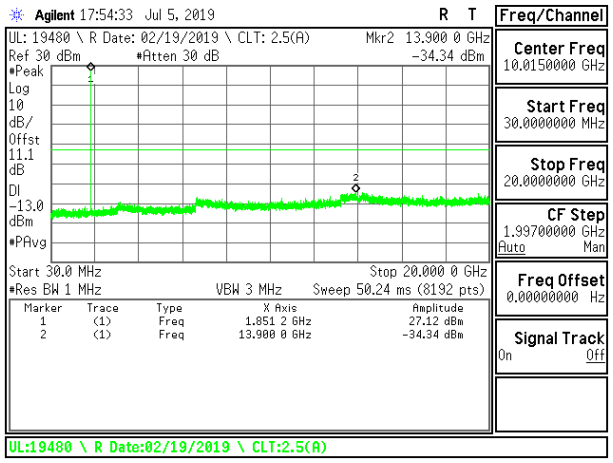
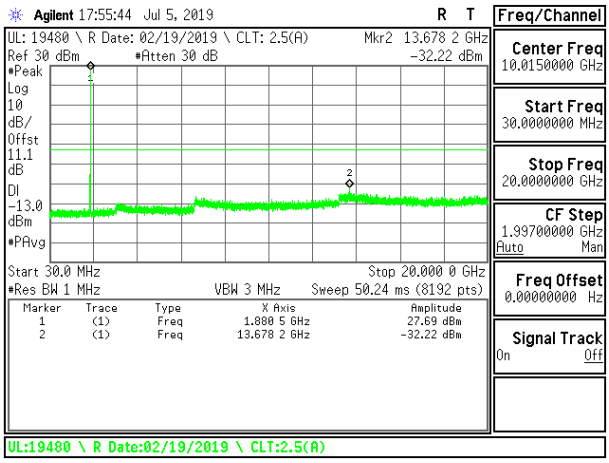
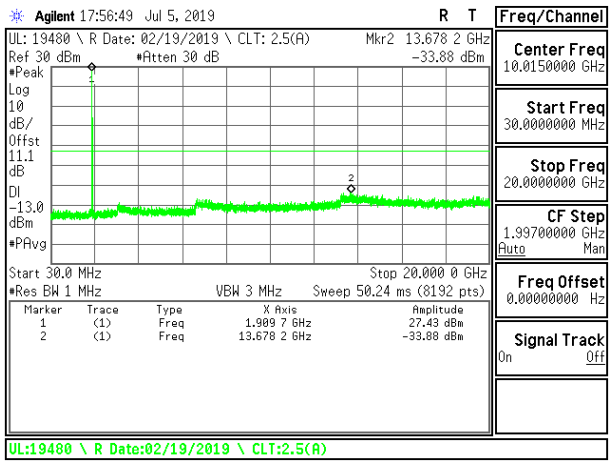
8.3.1. LTE BAND 2



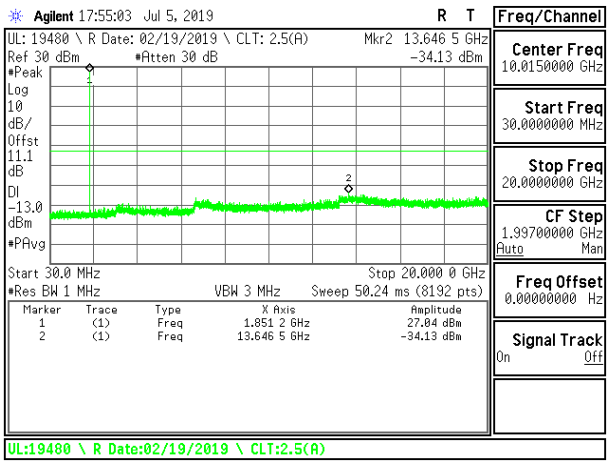
LTE B2 1.4MHz QPSK Low Channel RB1-0



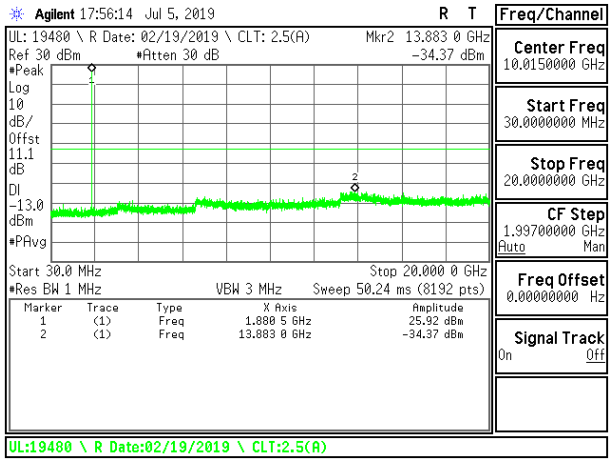
LTE B2 1.4MHz QPSK Middle Channel RB1-0



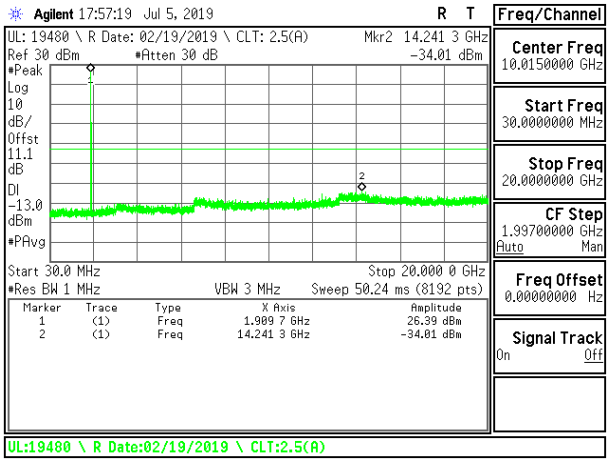
LTE B2 1.4MHz QPSK High Channel RB1-0



LTE B2 1.4MHz 16QAM Low Channel RB1-0



LTE B2 1.4MHz 16QAM Middle Channel RB1-0



LTE B2 1.4MHz 16QAM High Channel RB1-0

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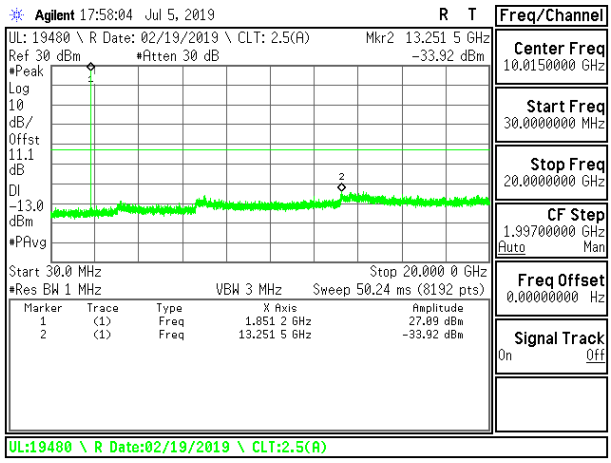
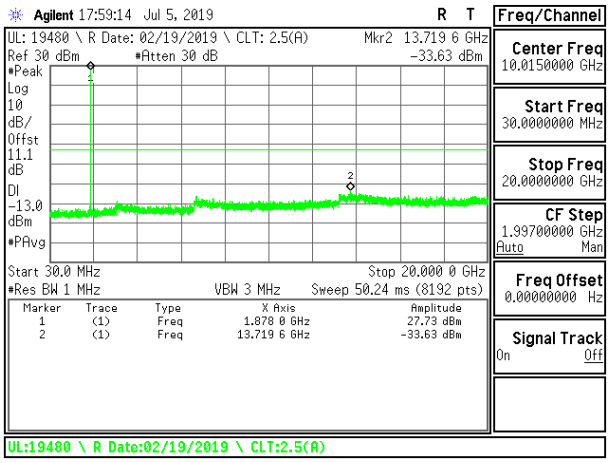
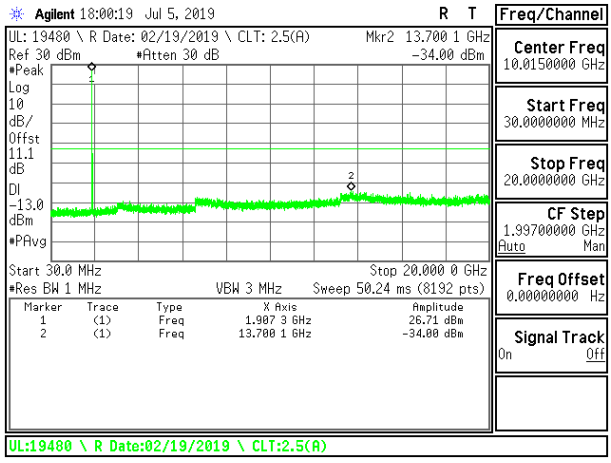


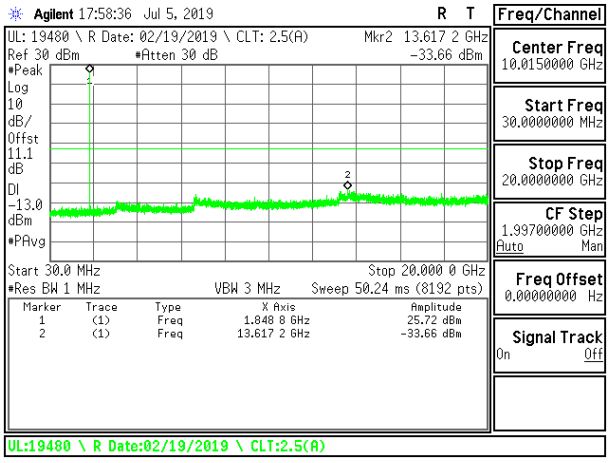
LTE B2 3MHz QPSK Low Channel RB1-0



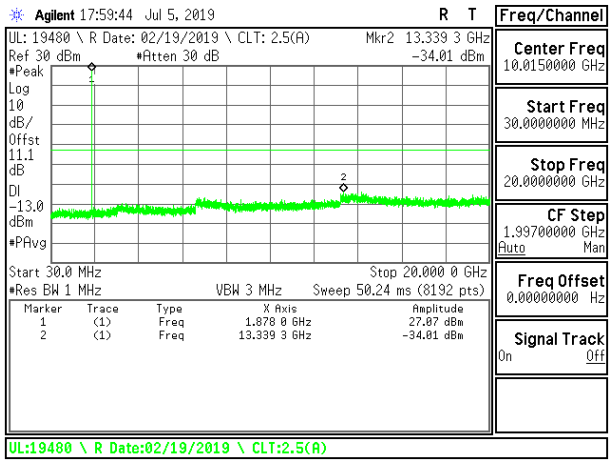
LTE B2 3MHz QPSK Middle Channel RB1-0



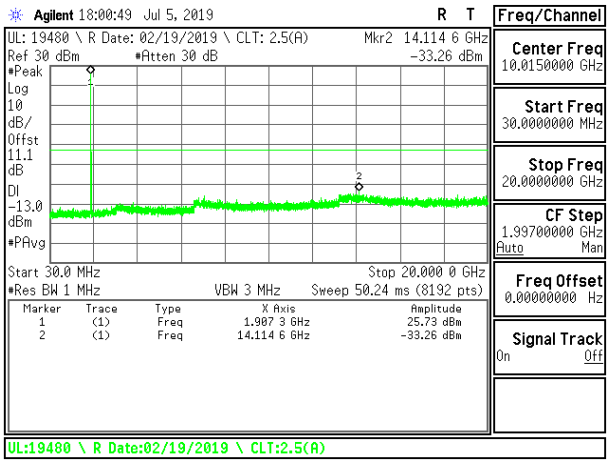
LTE B2 3MHz QPSK High Channel RB1-0



LTE B2 3MHz 16QAM Low Channel RB1-0



LTE B2 3MHz 16QAM Middle Channel RB1-0



LTE B2 3MHz 16QAM High Channel RB1-0

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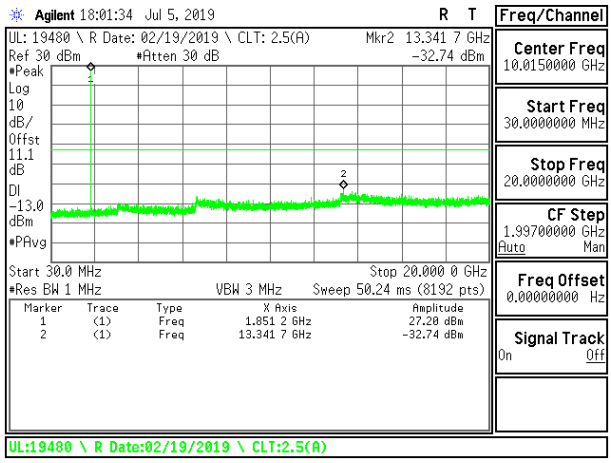
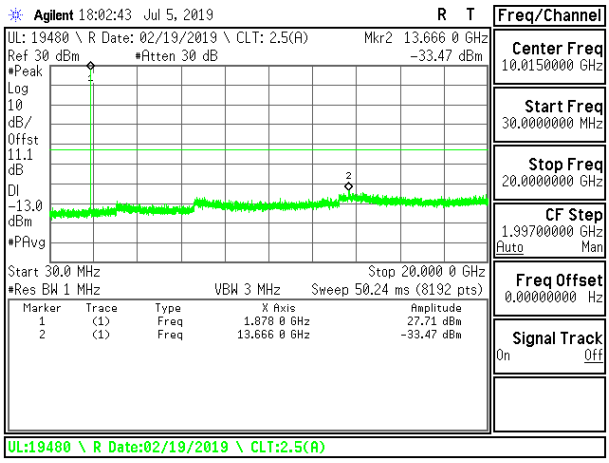
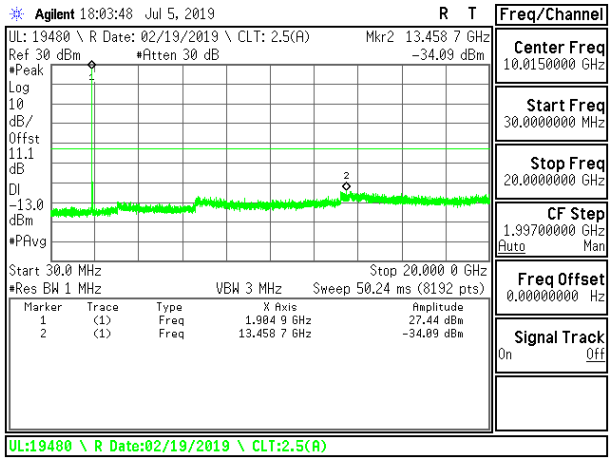


LTE B2 5MHz QPSK Low Channel RB1-0



LTE B2 5MHz QPSK Middle Channel RB1-0



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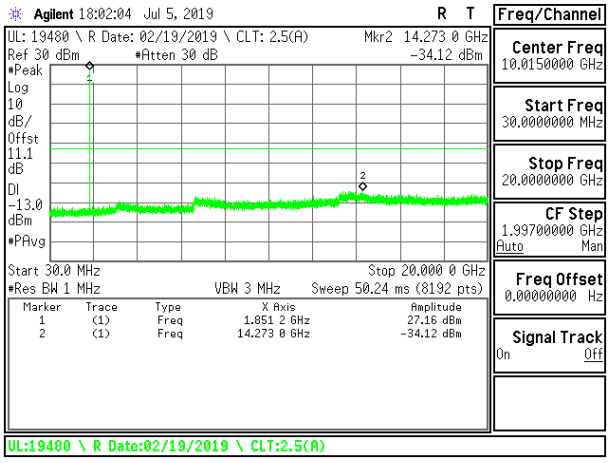
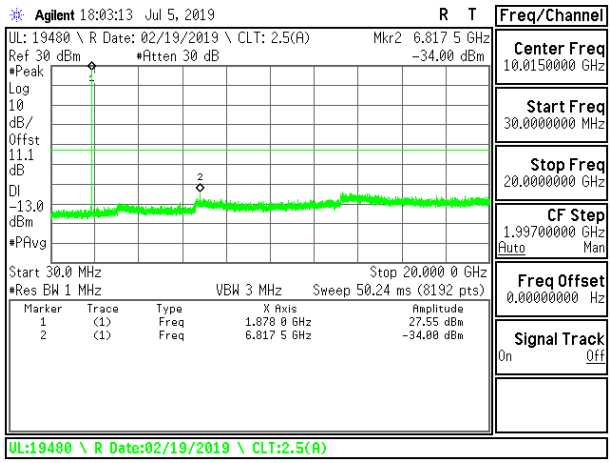
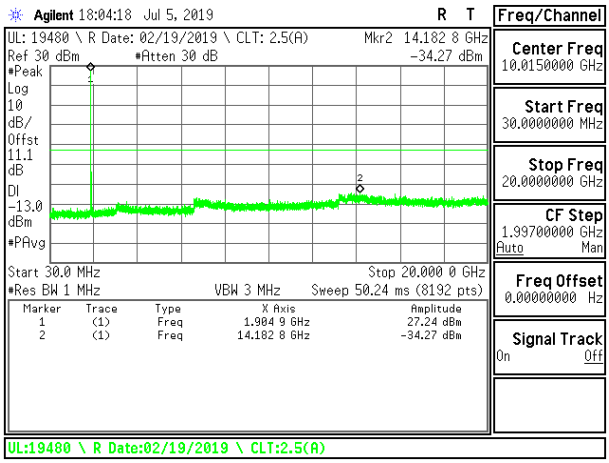


LTE B2 5MHz 16QAM Low Channel RB1-0



LTE B2 5MHz 16QAM Middle Channel RB1-0



LTE B2 5MHz 16QAM High Channel RB1-0

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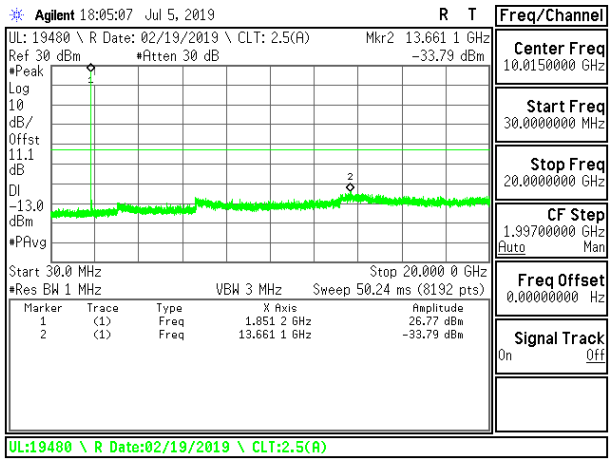
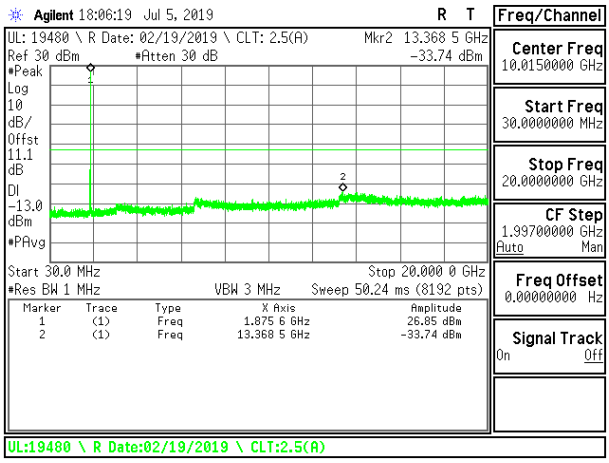
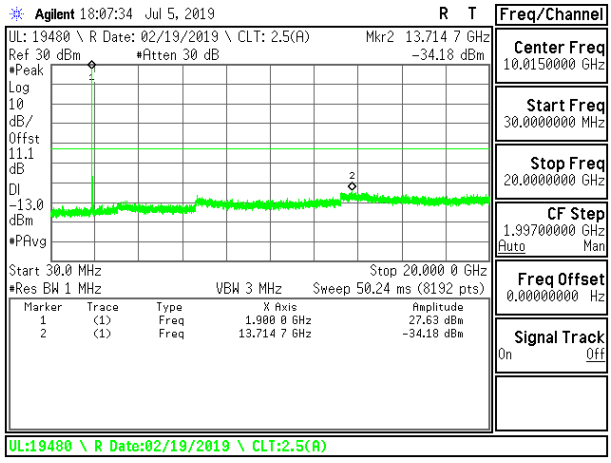


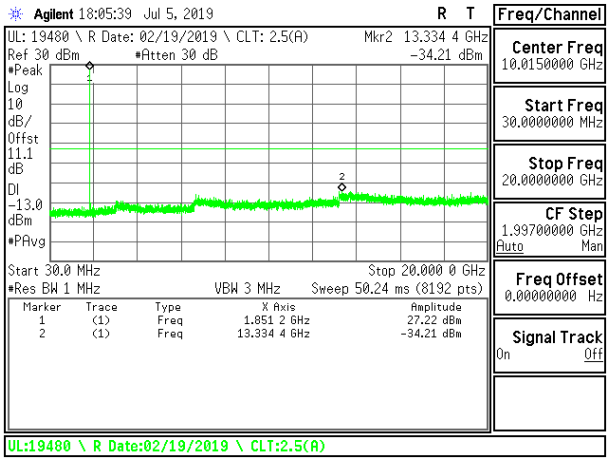
LTE B2 10MHz QPSK Low Channel RB1-0



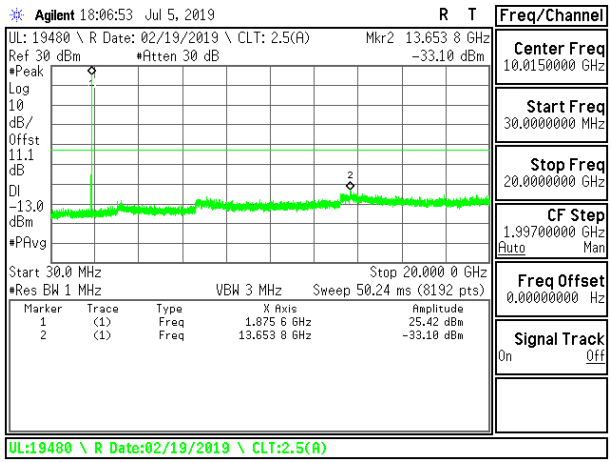
LTE B2 10MHz QPSK Middle Channel RB1-0



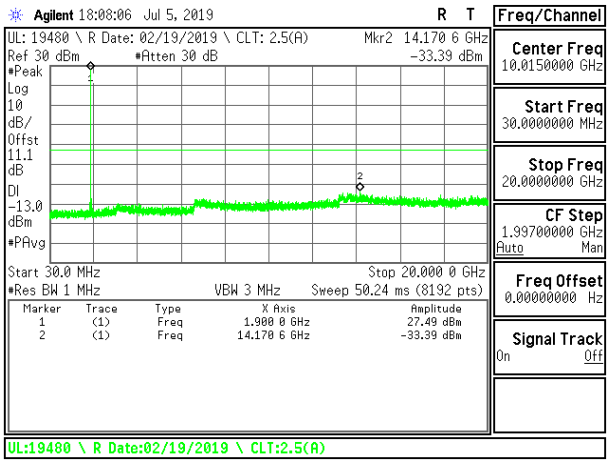
LTE B2 10MHz QPSK High Channel RB1-0



LTE B2 10MHz 16QAM Low Channel RB1-0



LTE B2 10MHz 16QAM Middle Channel RB1-0



LTE B2 10MHz 16QAM High Channel RB1-0

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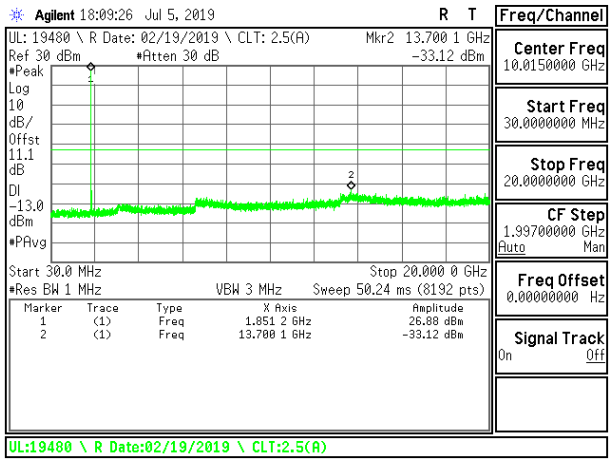
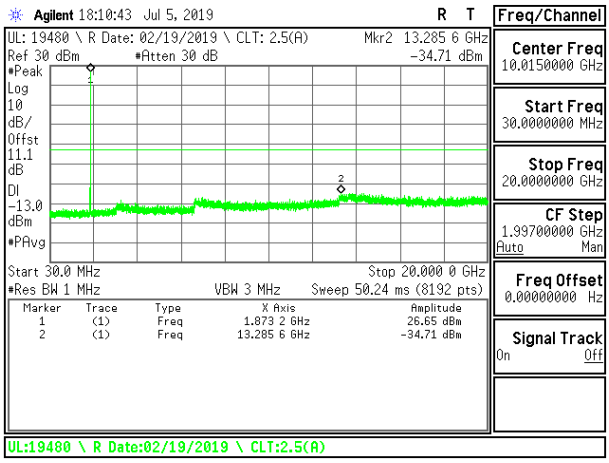
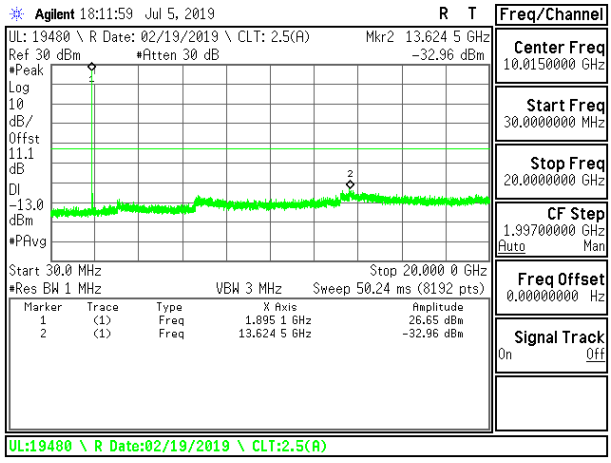


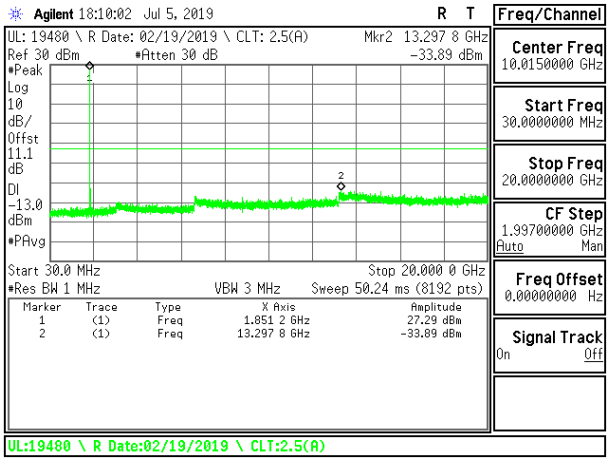
LTE B2 15MHz QPSK Low Channel RB1-0



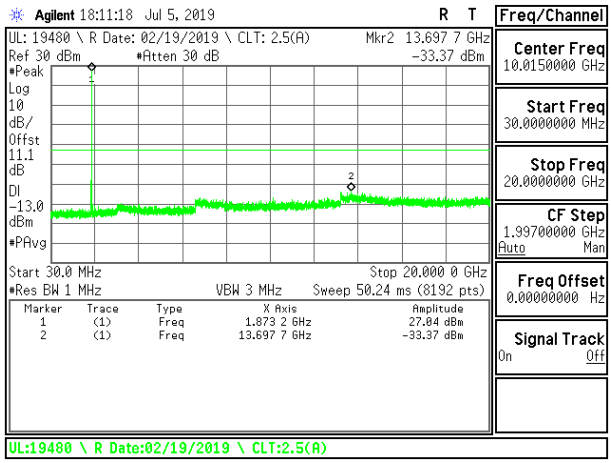
LTE B2 15MHz QPSK Middle Channel RB1-0



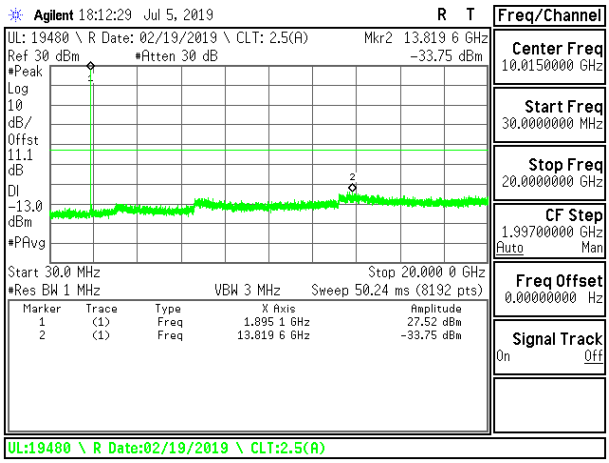
LTE B2 15MHz QPSK High Channel RB1-0



LTE B2 15MHz 16QAM Low Channel RB1-0



LTE B2 15MHz 16QAM Middle Channel RB1-0



LTE B2 15MHz 16QAM High Channel RB1-0

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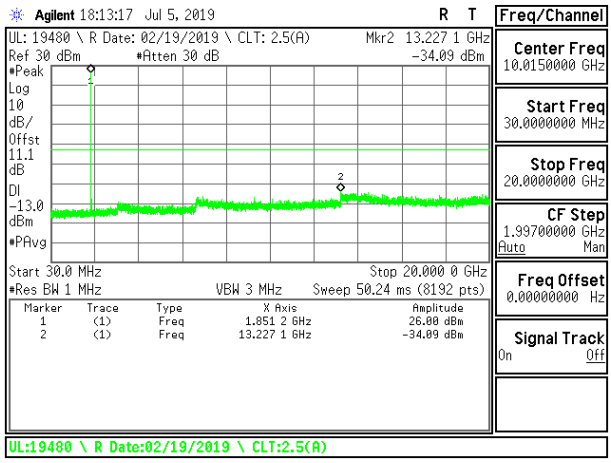

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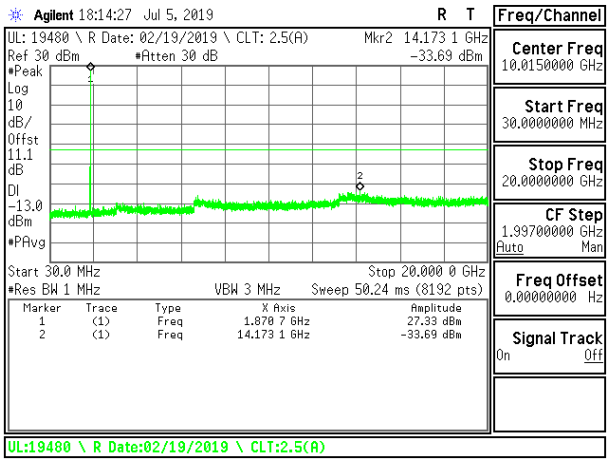
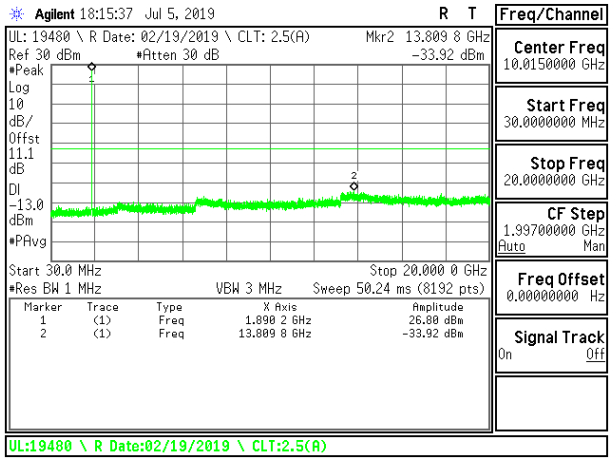


LTE B2 20MHz QPSK Middle Channel RB1-0



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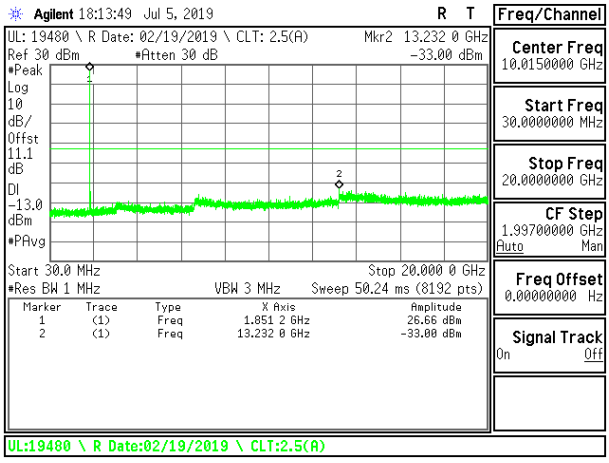

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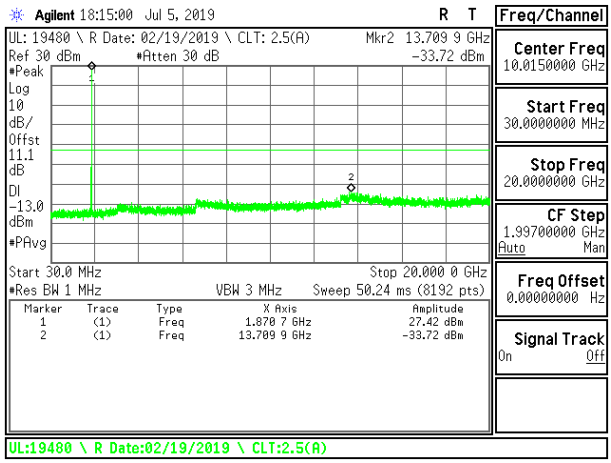
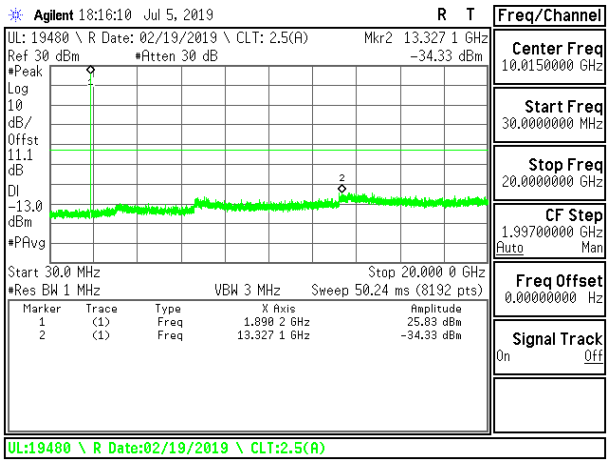


LTE B2 20MHz 16QAM Middle Channel RB1-0



LTE B2 20MHz 16QAM High Channel RB1-0

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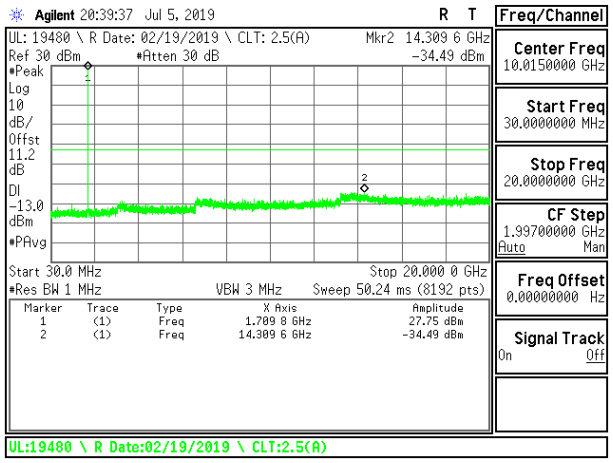
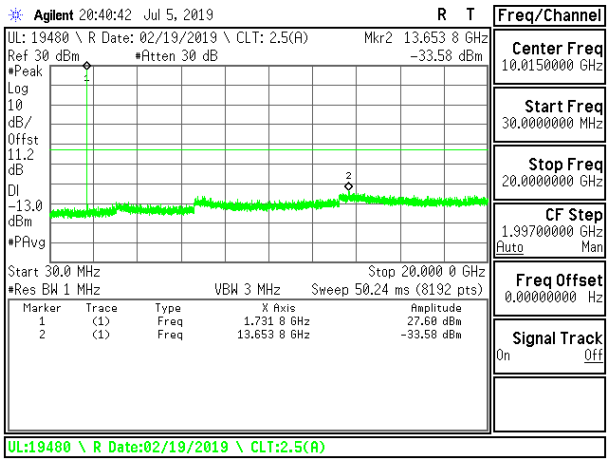
8.3.2. LTE BAND 4



LTE B4 1.4MHz QPSK Low Channel RB1-0



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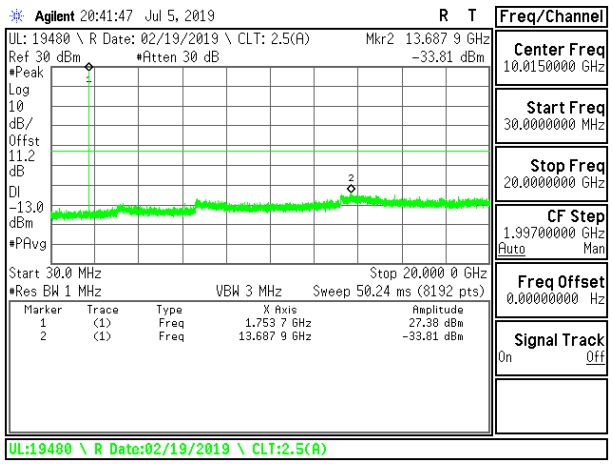

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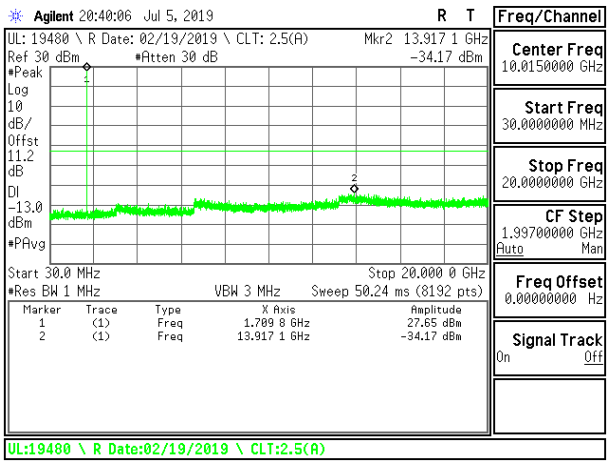

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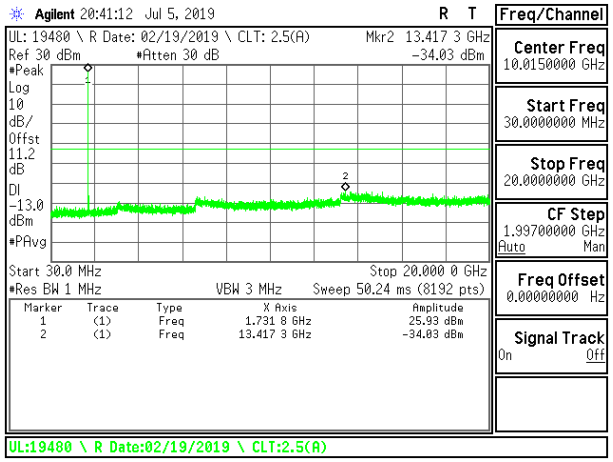
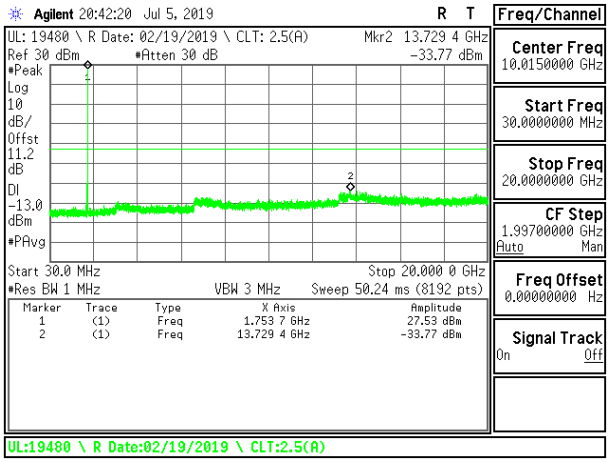


LTE B4 1.4MHz 16QAM Middle Channel RB1-0



LTE B4 1.4MHz 16QAM High Channel RB1-0

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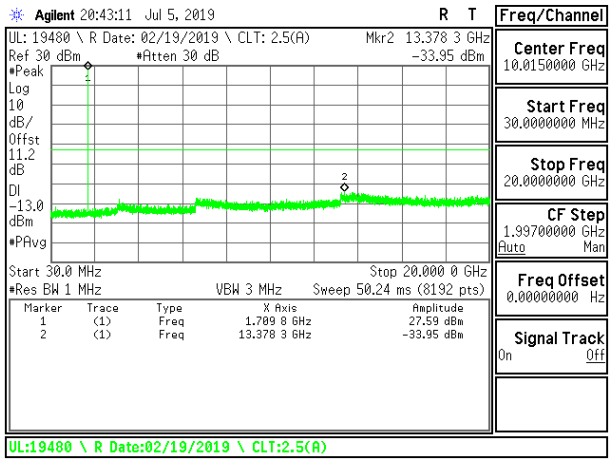
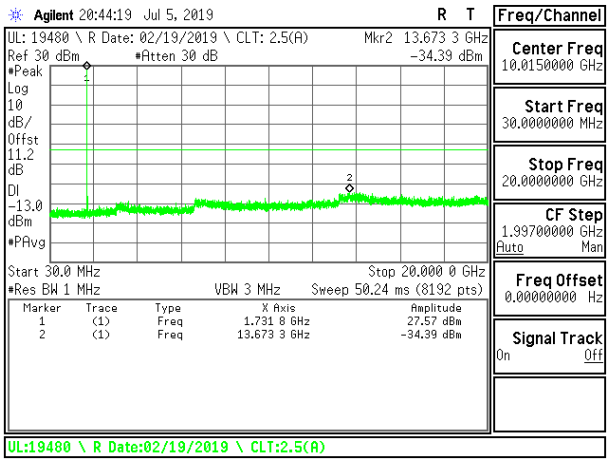


LTE B4 3MHz QPSK Low Channel RB1-0



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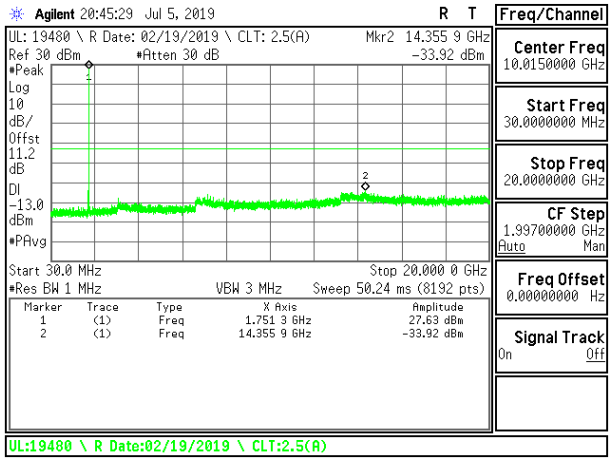

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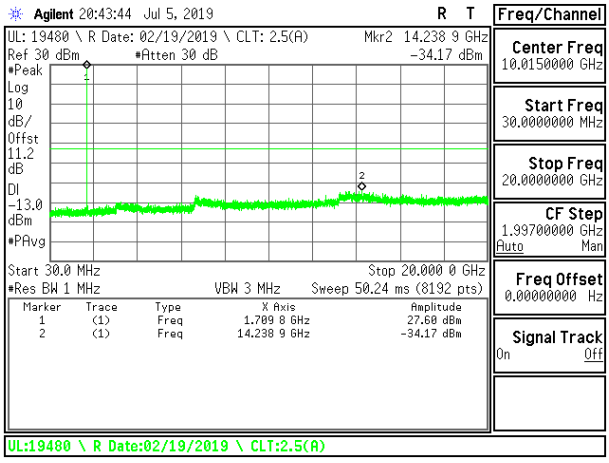
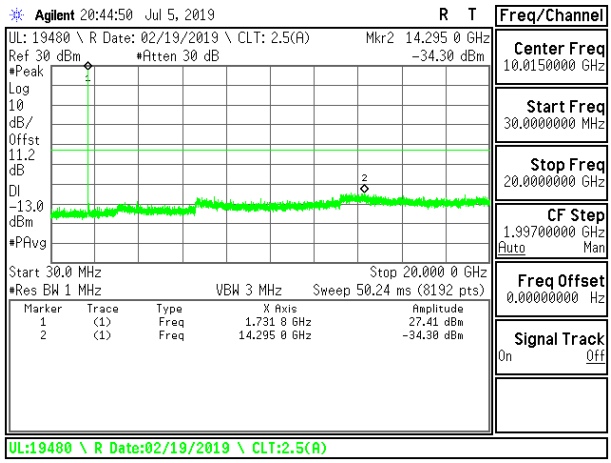
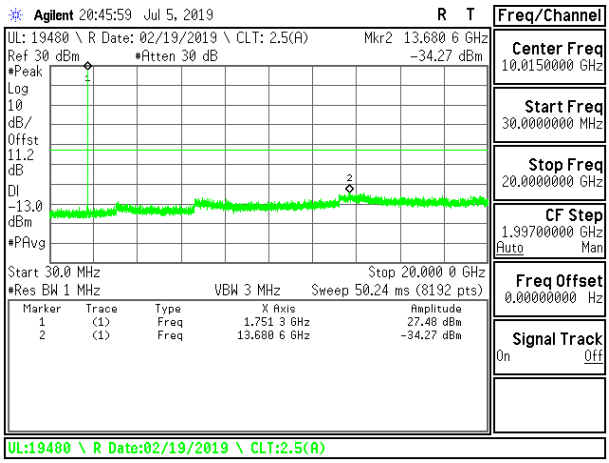


LTE B4 3MHz 16QAM Low Channel RB1-0



LTE B4 3MHz 16QAM Middle Channel RB1-0



LTE B4 3MHz 16QAM High Channel RB1-0

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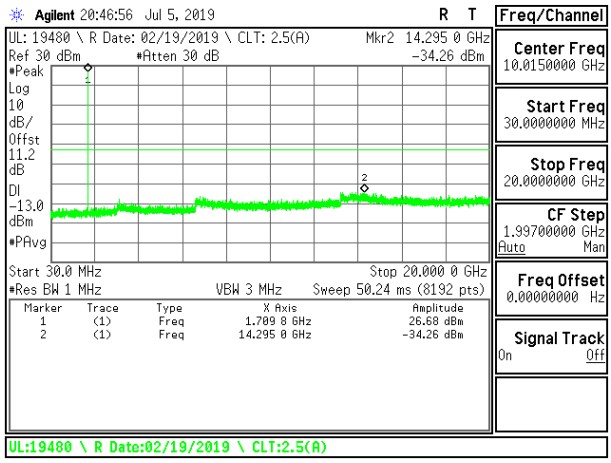
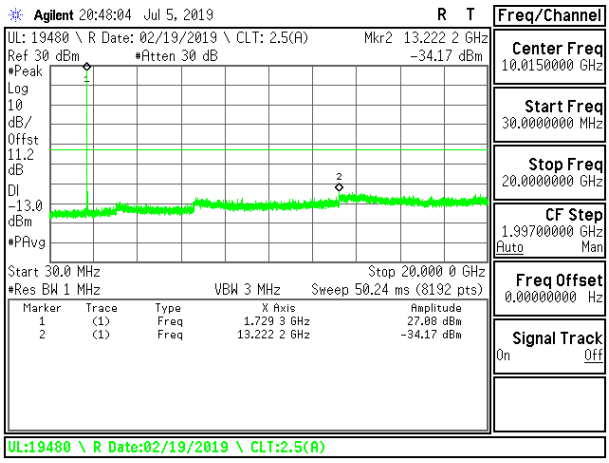


LTE B4 5MHz QPSK Low Channel RB1-0



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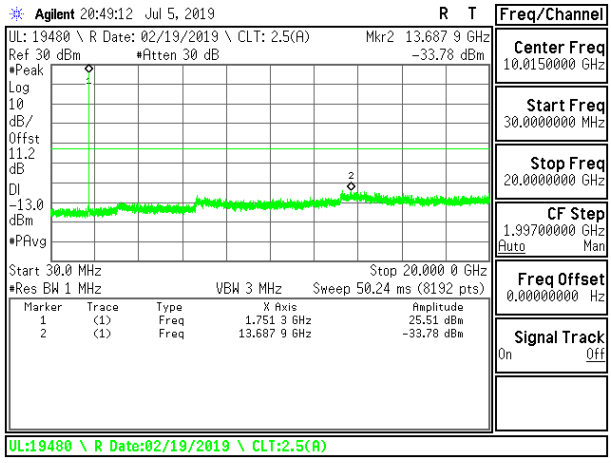
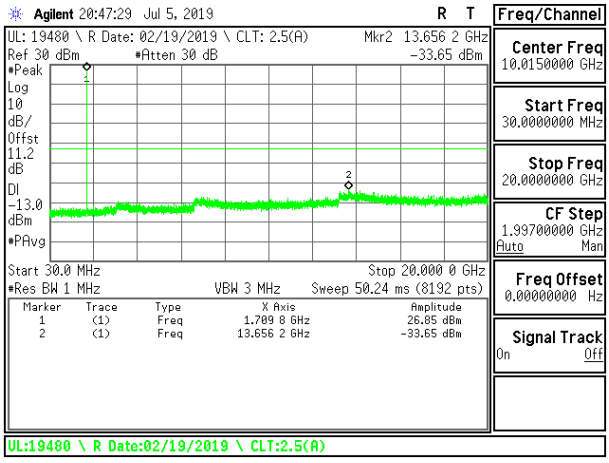


LTE B4 5MHz QPSK High Channel RB1-0



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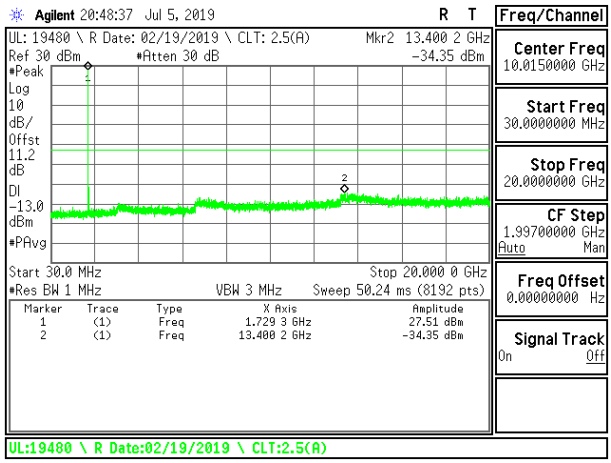
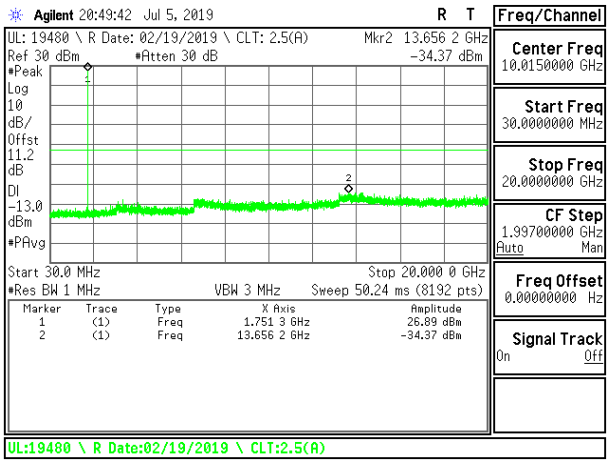


LTE B4 5MHz 16QAM Middle Channel RB1-0



LTE B4 5MHz 16QAM High Channel RB1-0

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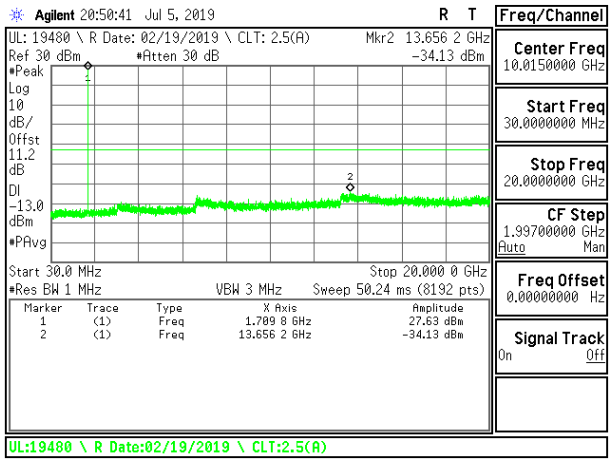
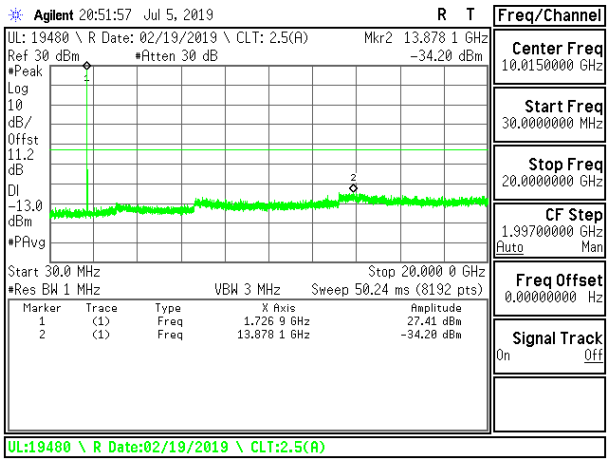
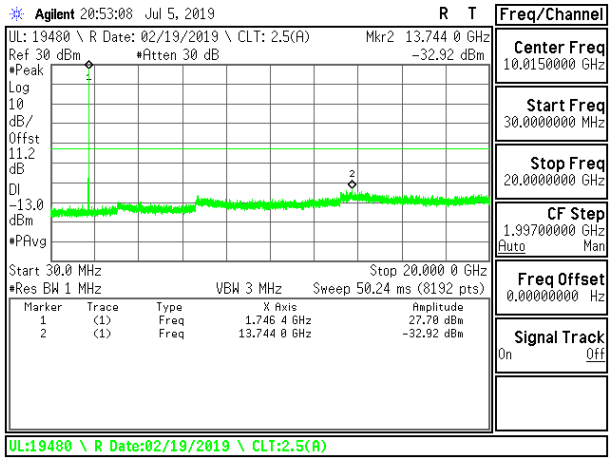


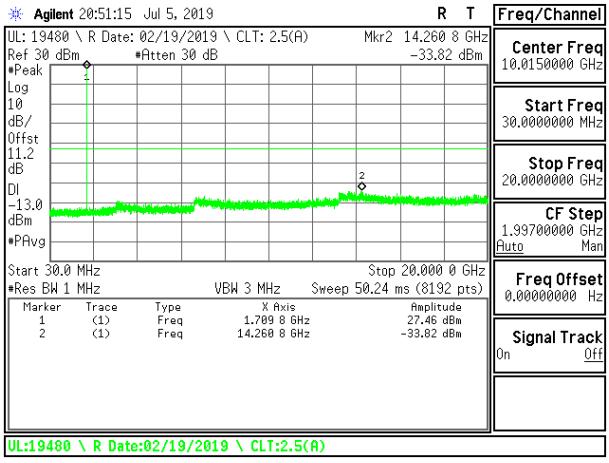
LTE B4 10MHz QPSK Low Channel RB1-0



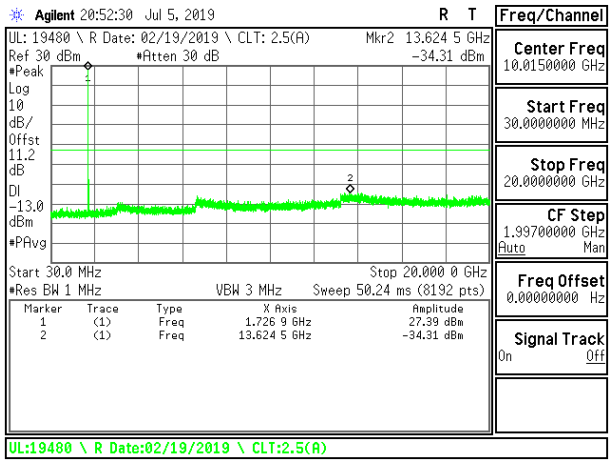
LTE B4 10MHz QPSK Middle Channel RB1-0



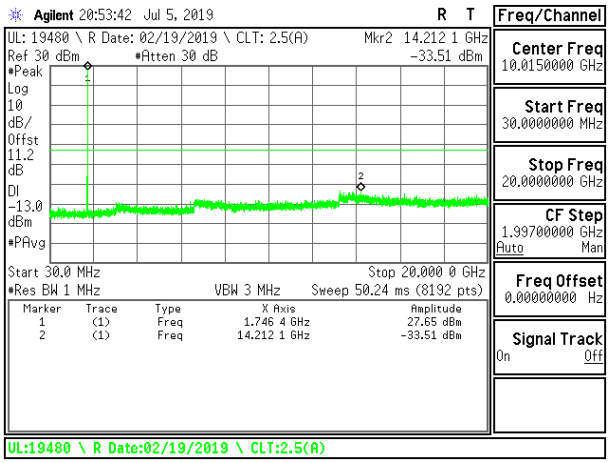
LTE B4 10MHz QPSK High Channel RB1-0



LTE B4 10MHz 16QAM Low Channel RB1-0



LTE B4 10MHz 16QAM Middle Channel RB1-0



LTE B4 10MHz 16QAM High Channel RB1-0

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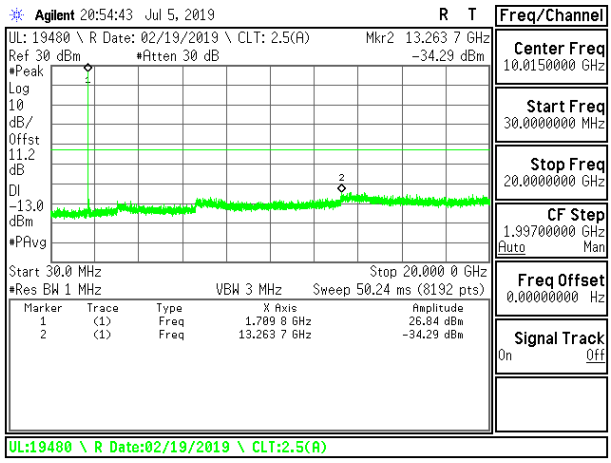
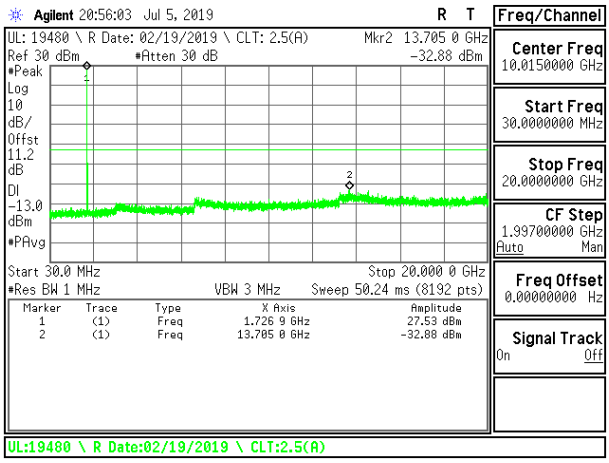
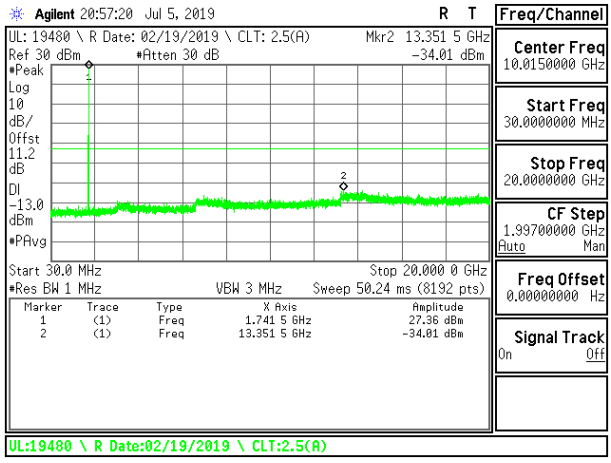


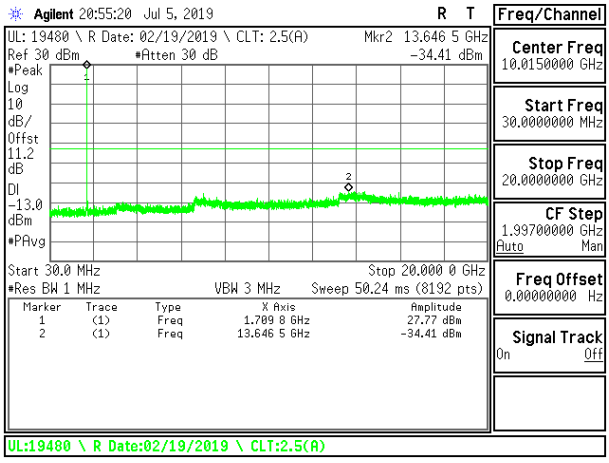
LTE B4 15MHz QPSK Low Channel RB1-0



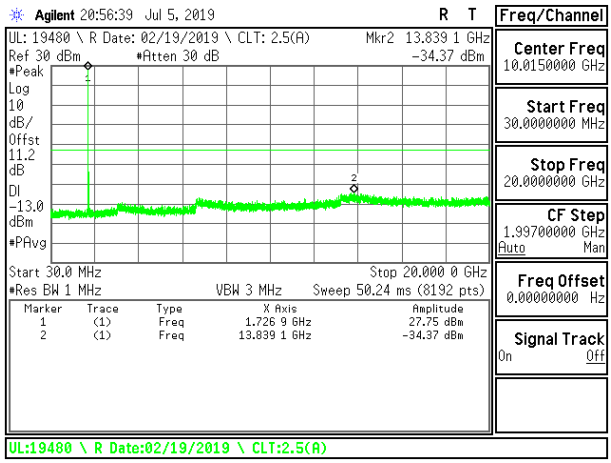
LTE B4 15MHz QPSK Middle Channel RB1-0



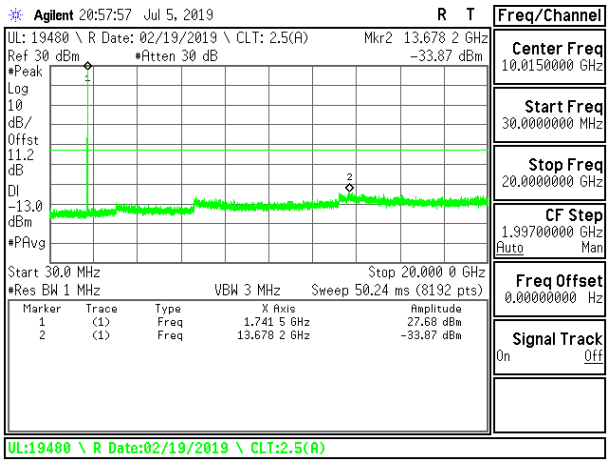
LTE B4 15MHz QPSK High Channel RB1-0



LTE B4 15MHz 16QAM Low Channel RB1-0



LTE B4 15MHz 16QAM Middle Channel RB1-0



LTE B4 15MHz 16QAM High Channel RB1-0

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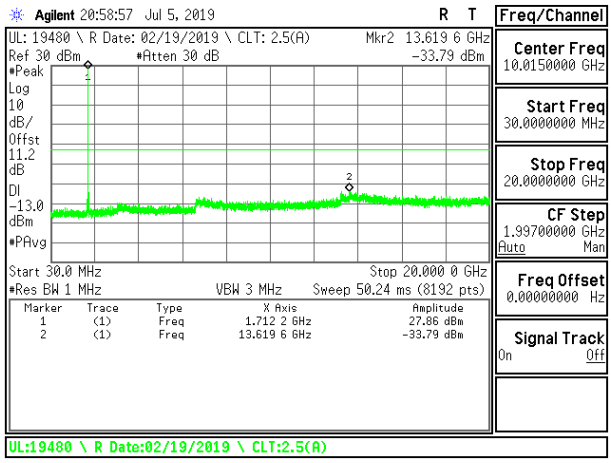
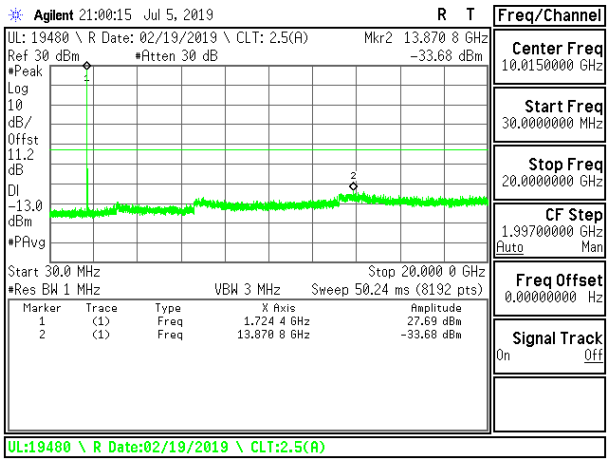
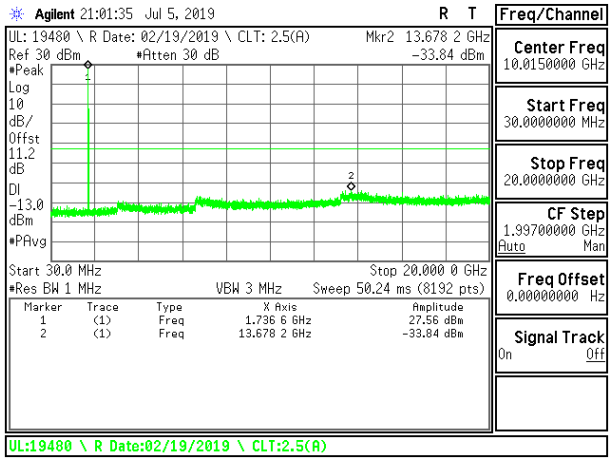


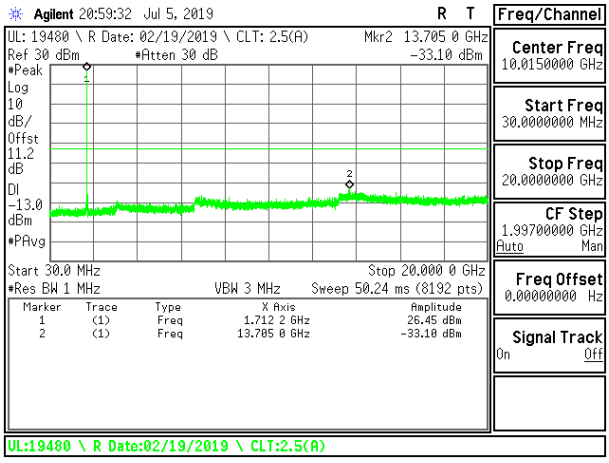
LTE B4 20MHz QPSK Low Channel RB1-0



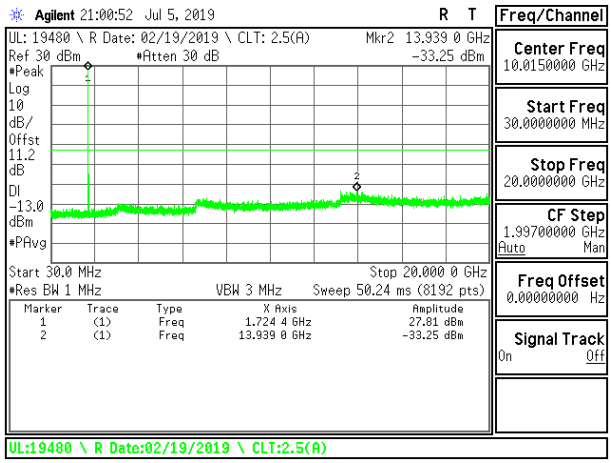
LTE B4 20MHz QPSK Middle Channel RB1-0



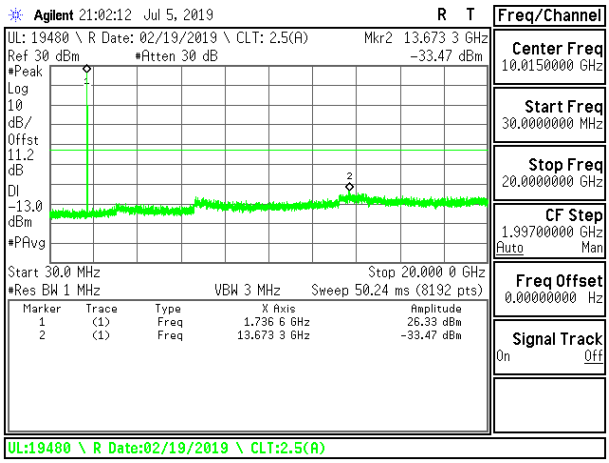
LTE B4 20MHz QPSK High Channel RB1-0



LTE B4 20MHz 16QAM Low Channel RB1-0



LTE B4 20MHz 16QAM Middle Channel RB1-0



LTE B4 20MHz 16QAM High Channel RB1-0

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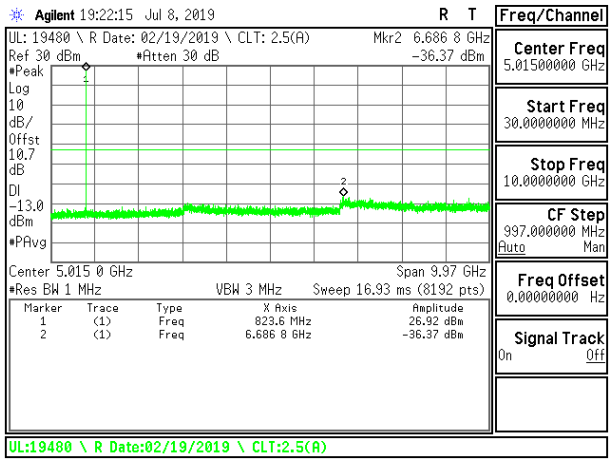
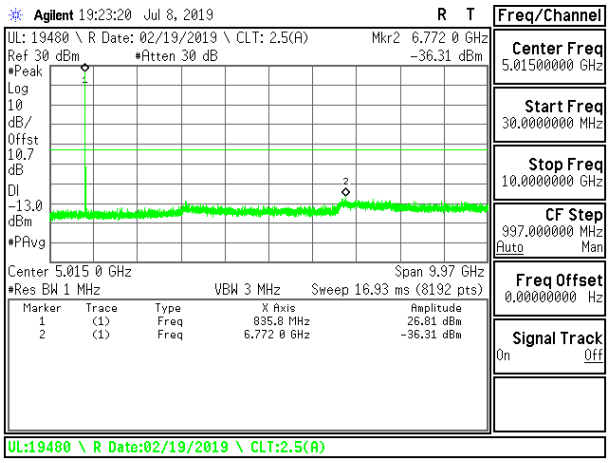
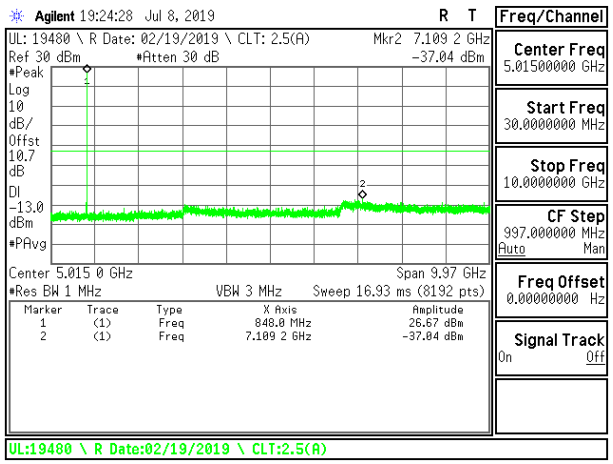
8.3.3. LTE BAND 5



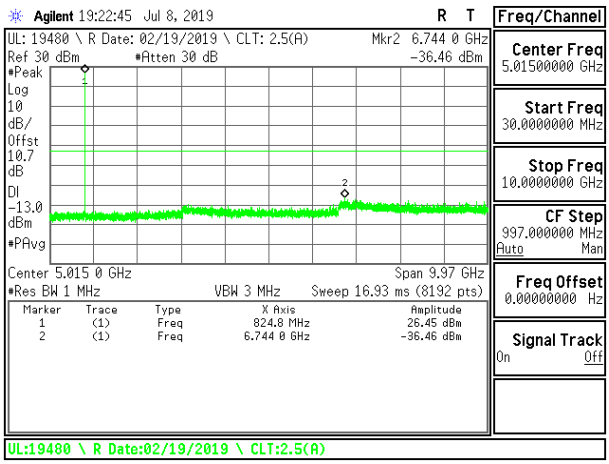
LTE B5 1.4MHz QPSK Low Channel RB1-0



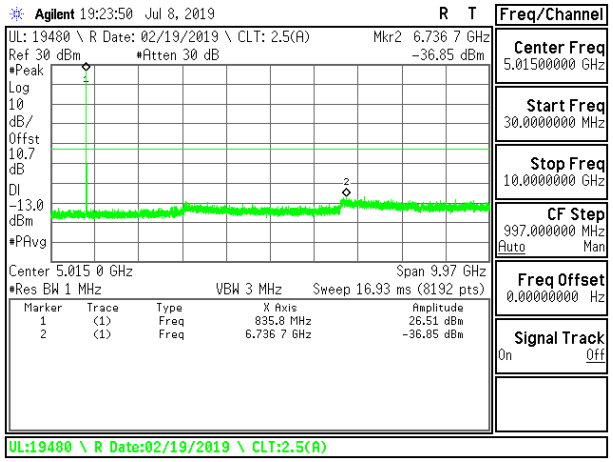
LTE B5 1.4MHz QPSK Middle Channel RB1-0



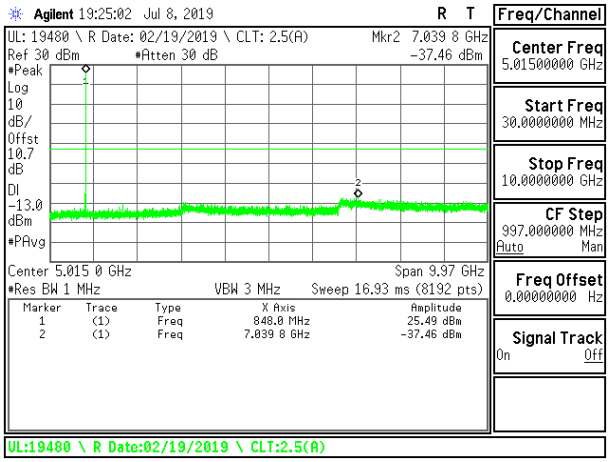
LTE B5 1.4MHz QPSK High Channel RB1-0



LTE B5 1.4MHz 16QAM Low Channel RB1-0



LTE B5 1.4MHz 16QAM Middle Channel RB1-0



LTE B5 1.4MHz 16QAM High Channel RB1-0

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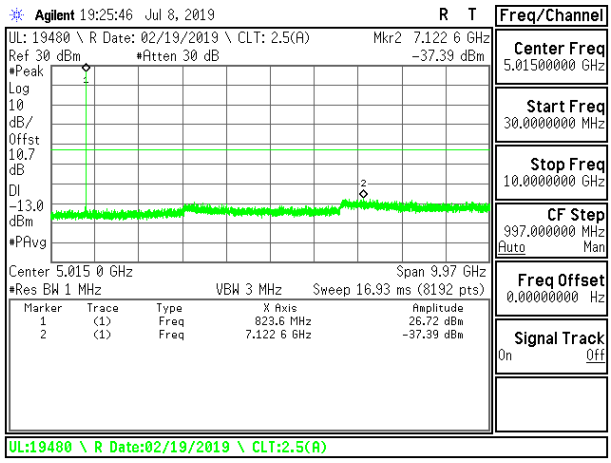
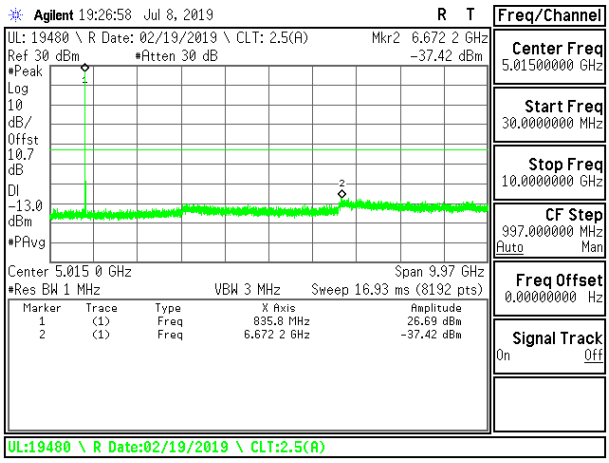
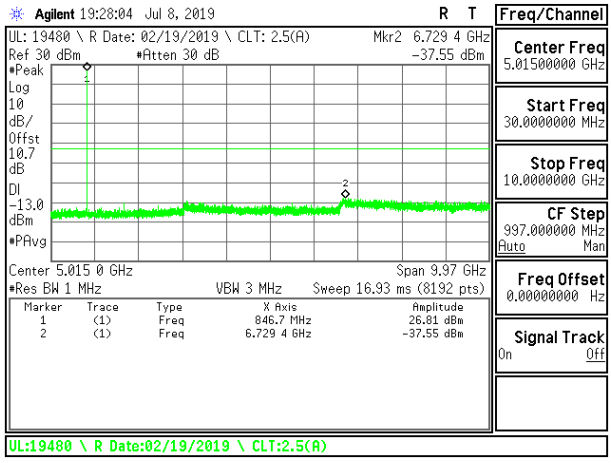


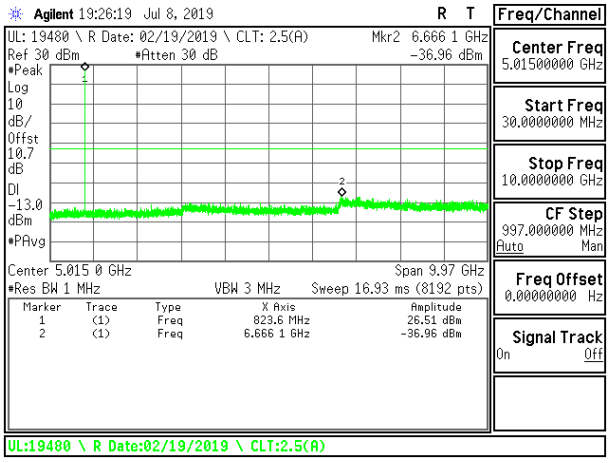
LTE B5 3MHz QPSK Low Channel RB1-0



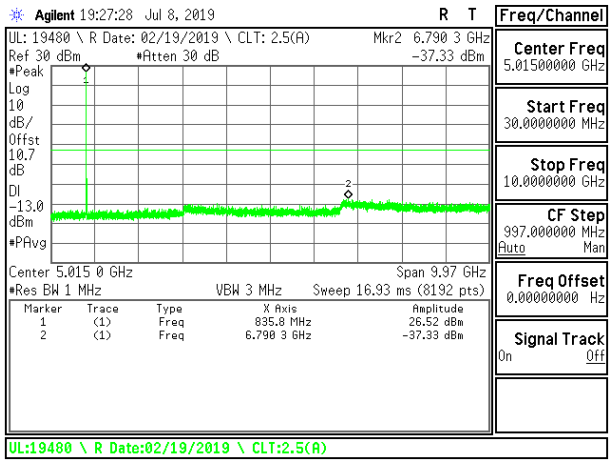
LTE B5 3MHz QPSK Middle Channel RB1-0



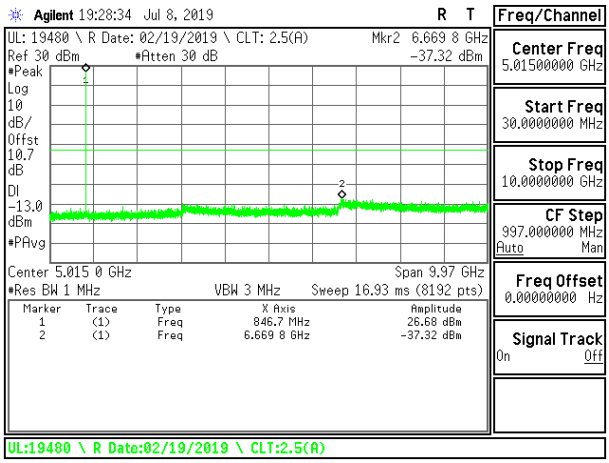
LTE B5 3MHz QPSK High Channel RB1-0



LTE B5 3MHz 16QAM Low Channel RB1-0



LTE B5 3MHz 16QAM Middle Channel RB1-0



LTE B5 3MHz 16QAM High Channel RB1-0

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