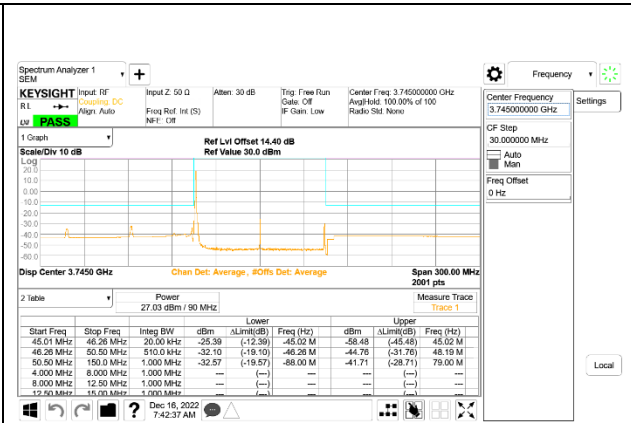
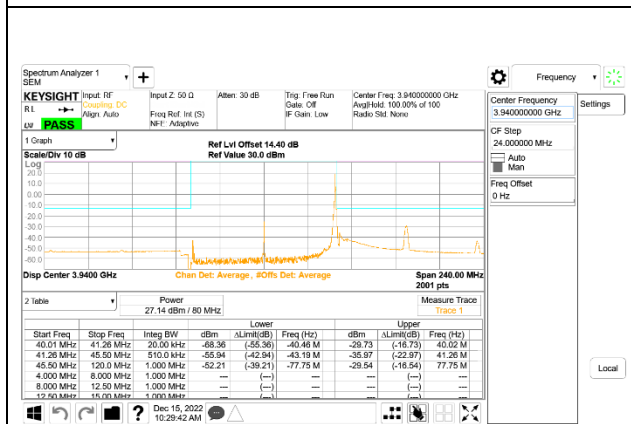


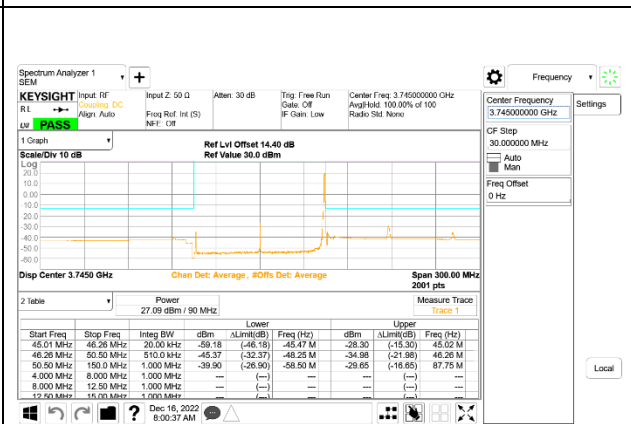
5G NR n77 80MHz BPSK High Channel RB1-0, ID:50822



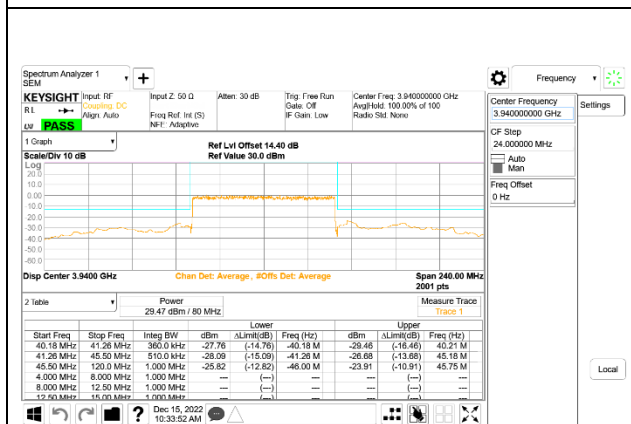
5G NR n77 90MHz BPSK Low Channel RB1-0, ID:50822



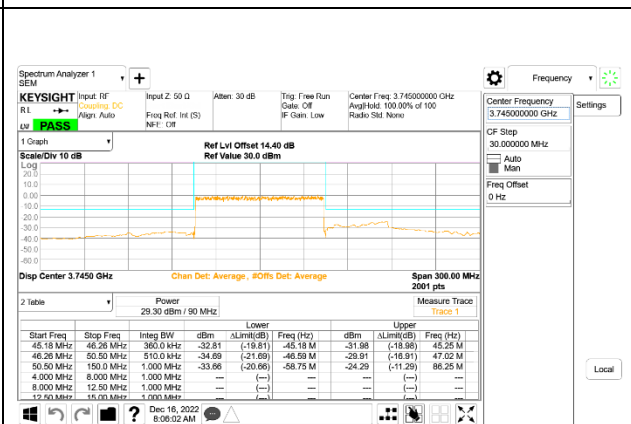
5G NR n77 80MHz BPSK High Channel RB1-216, ID:50822



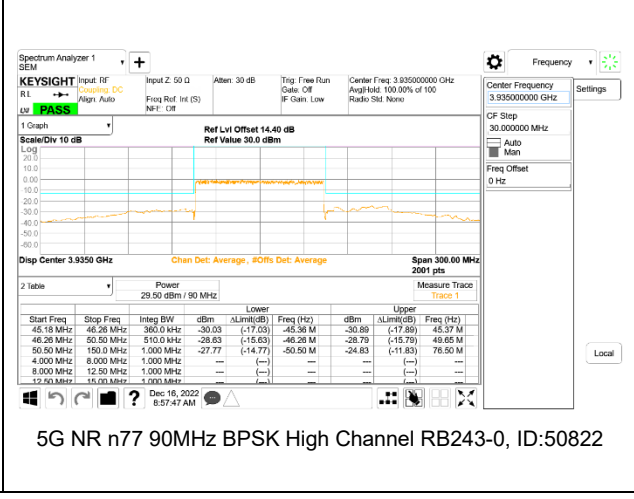
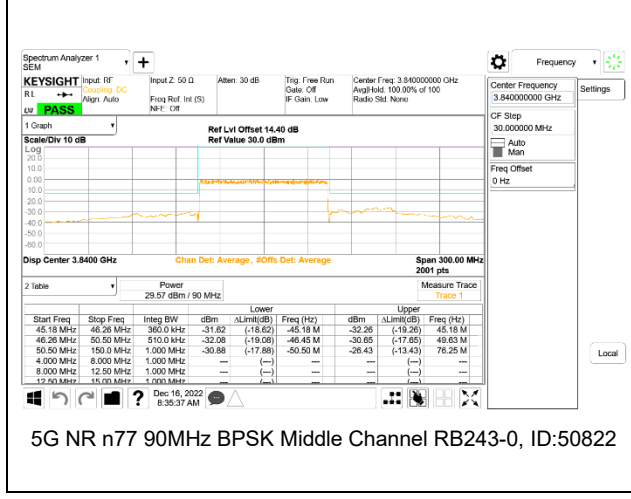
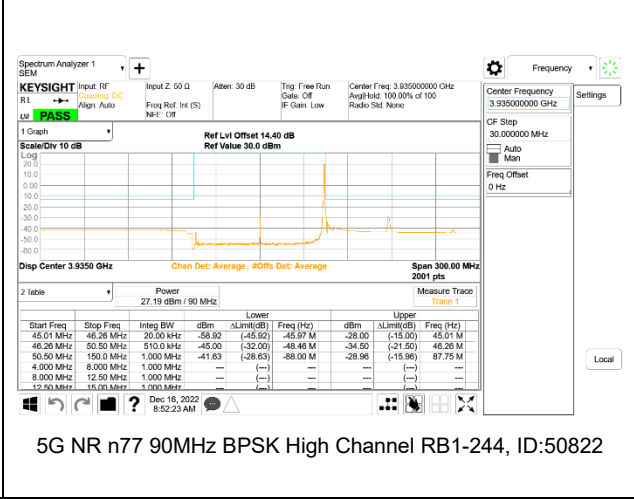
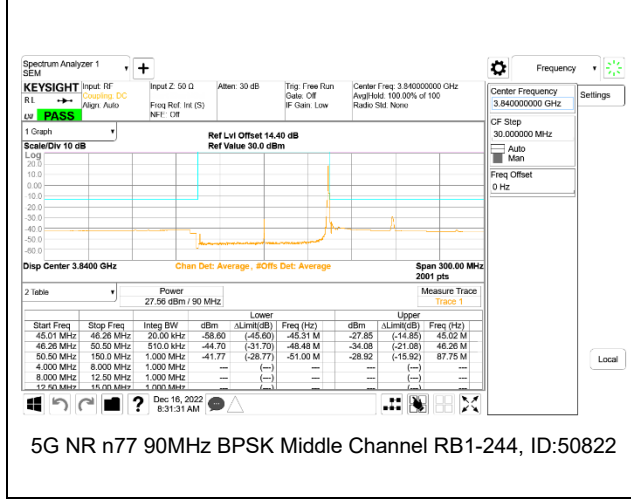
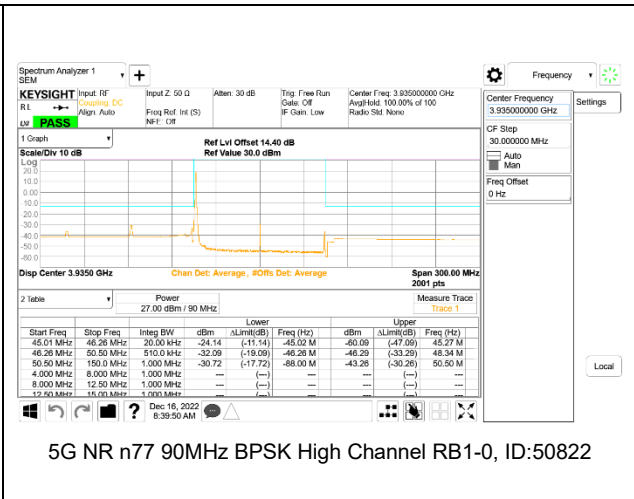
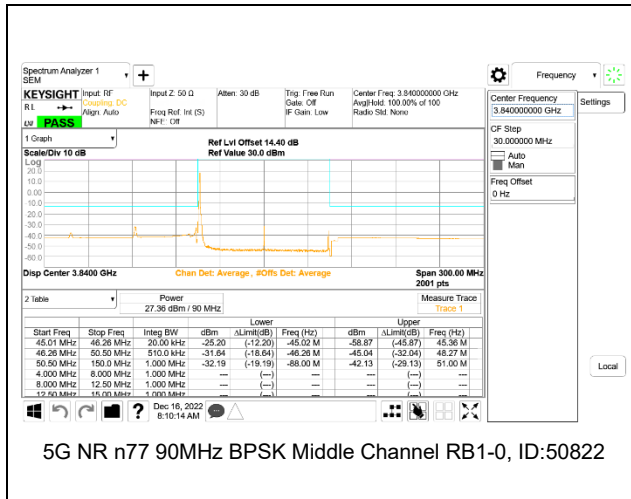
5G NR n77 90MHz BPSK Low Channel RB1-244, ID:50822

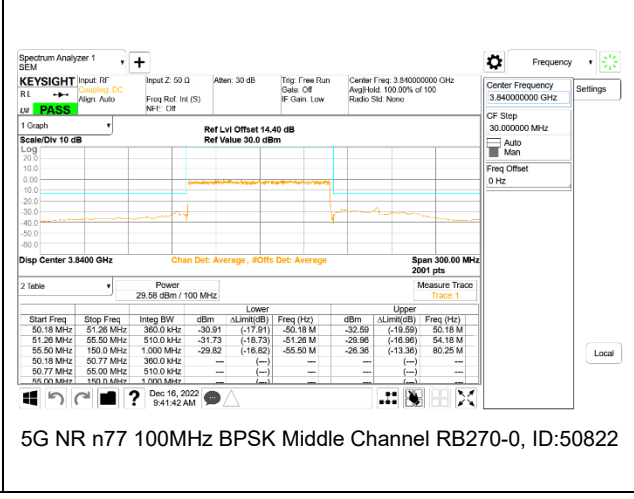
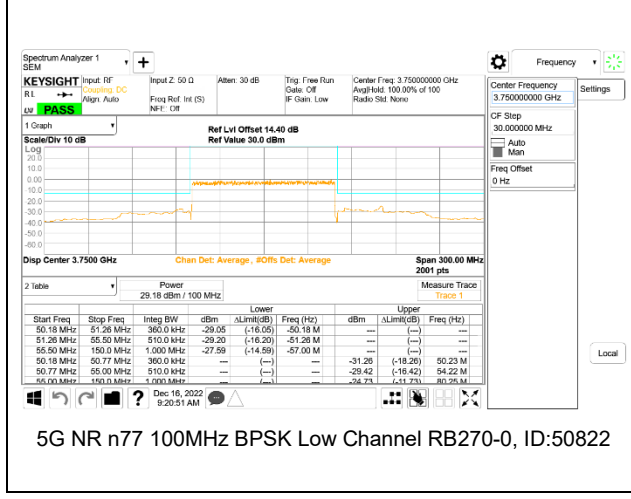
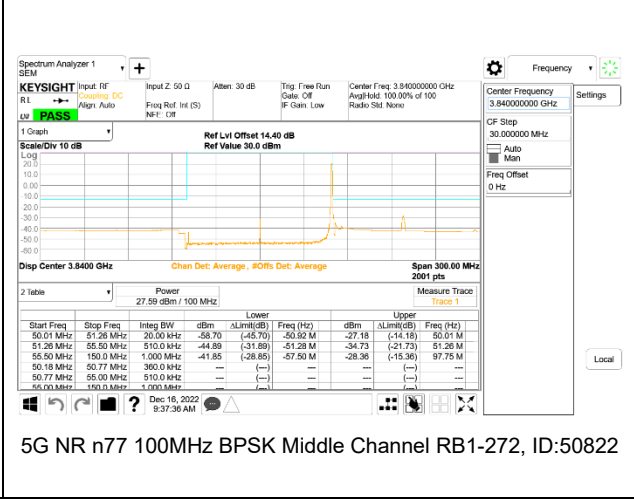
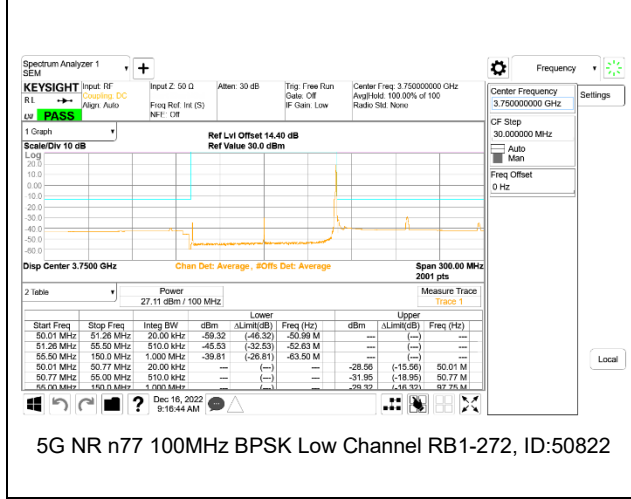
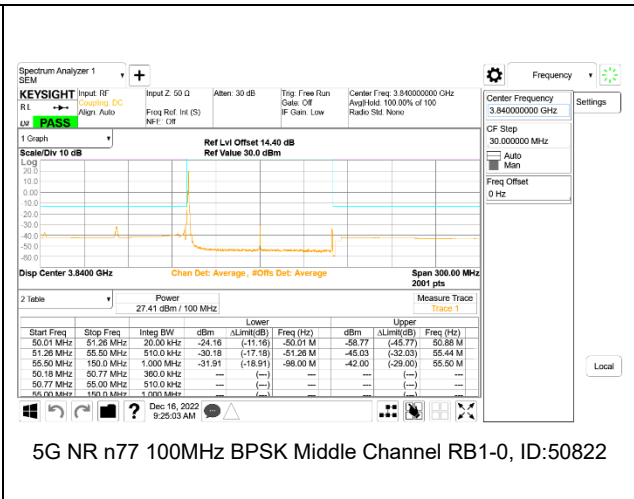
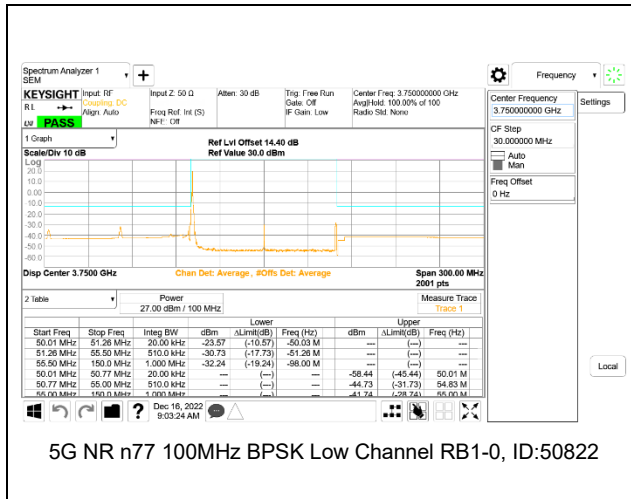


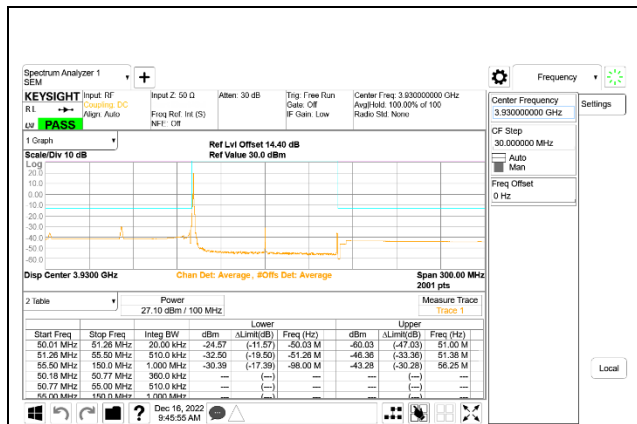
5G NR n77 80MHz BPSK High Channel RB216-0, ID:50822



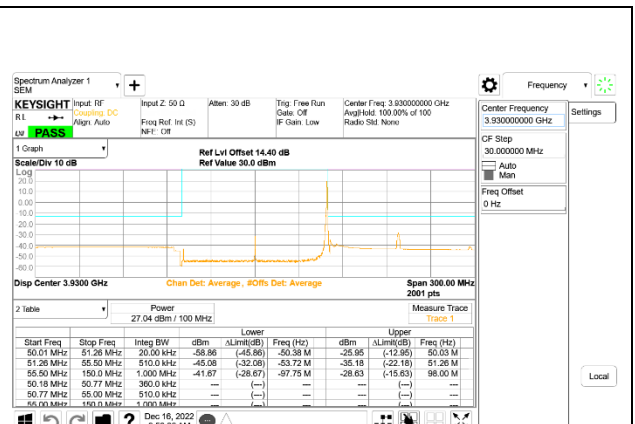
5G NR n77 90MHz BPSK Low Channel RB243-0, ID:50822



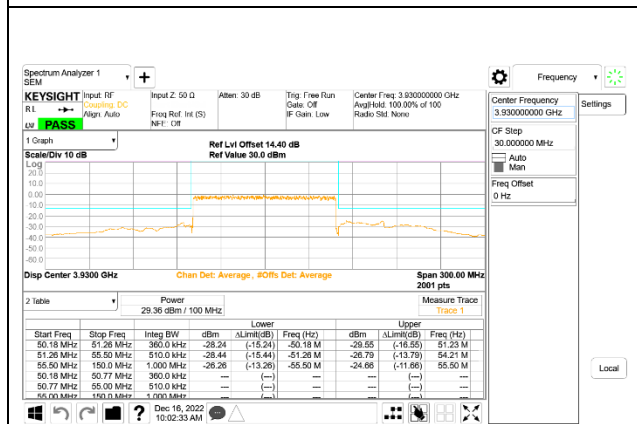




5G NR n77 100MHz BPSK High Channel RB1-0, ID:50822



5G NR n77 100MHz BPSK High Channel RB1-272, ID:50822



5G NR n77 100MHz BPSK High Channel RB270-0, ID:50822

Intentionally Blank

9.3. OUT OF BAND EMISSIONS

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)

RESULTS

Both QPSK and 16QAM modes are tested, QPSK bandwidths results are reported as worst case for LTE bands.

Both BPSK and 16QAM modes are tested, BPSK bandwidths results are reported as worst case for 5G NRs.

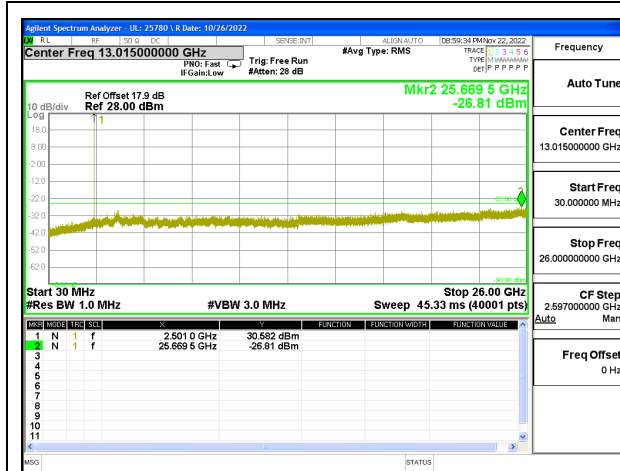
9.3.1. LTE BAND 7 AND 5G NR n7

LIMITS

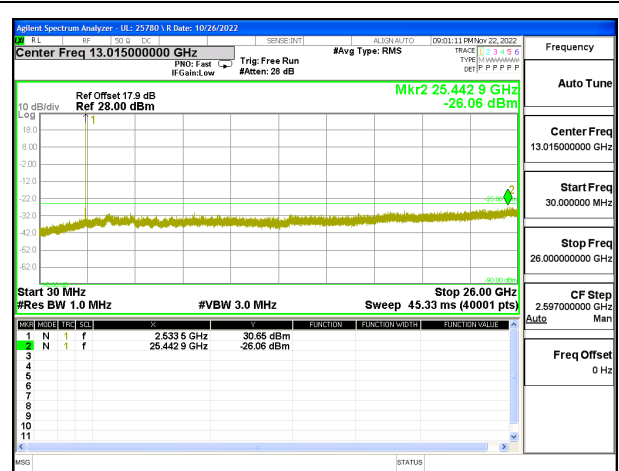
FCC: §27.53 (m)

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

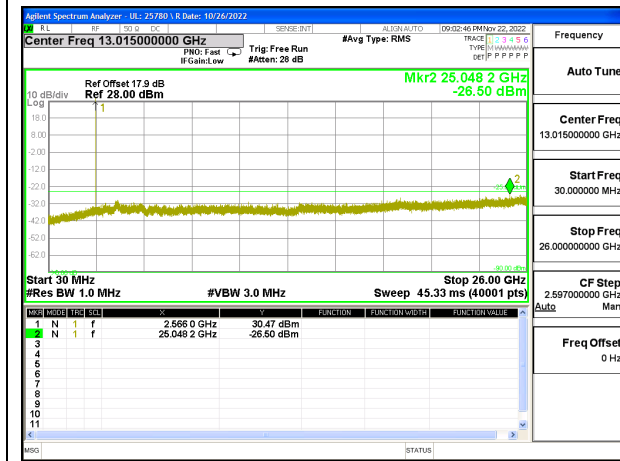
LTE BAND 7



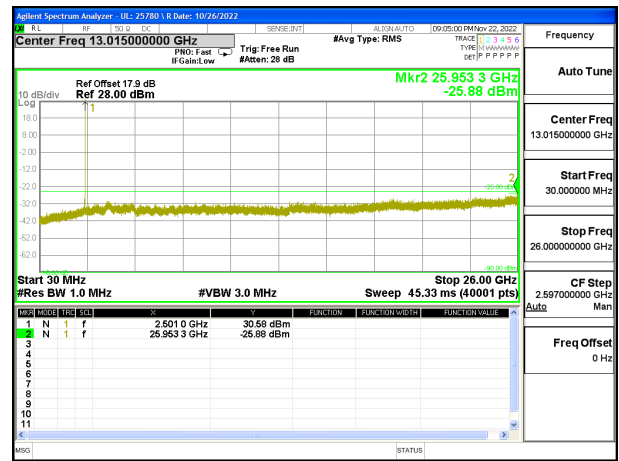
LTE B7 5MHz QPSK Low Channel RB1-0



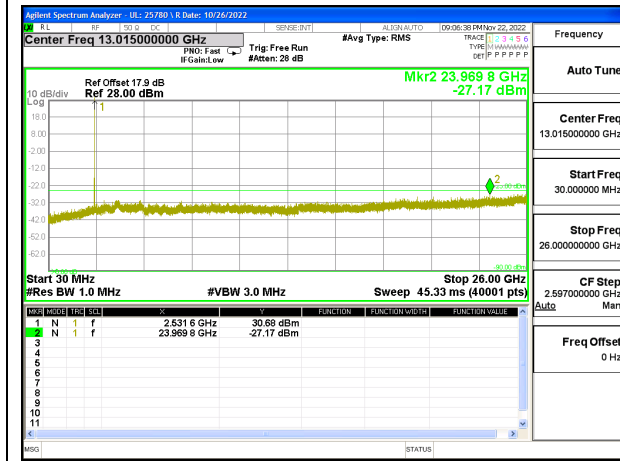
LTE B7 5MHz QPSK Middle Channel RB1-0



LTE B7 5MHz QPSK High Channel RB1-0



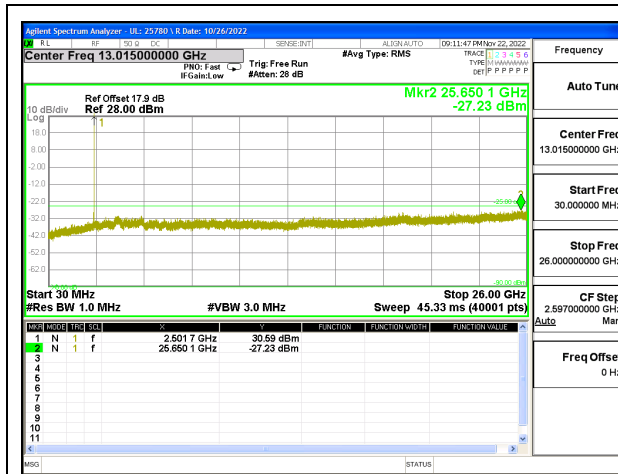
LTE B7 10MHz QPSK Low Channel RB1-0



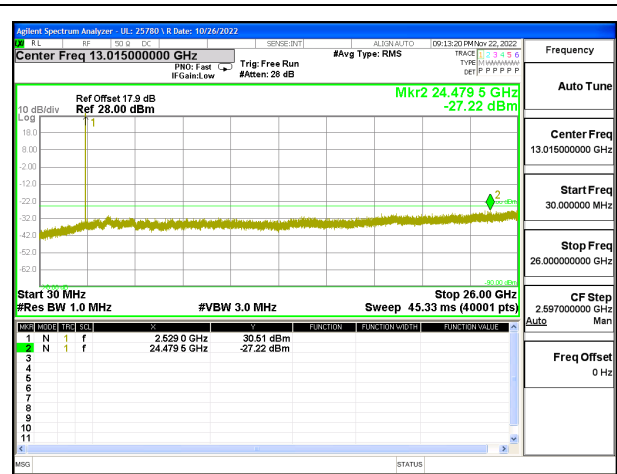
LTE B7 10MHz QPSK Middle Channel RB1-0



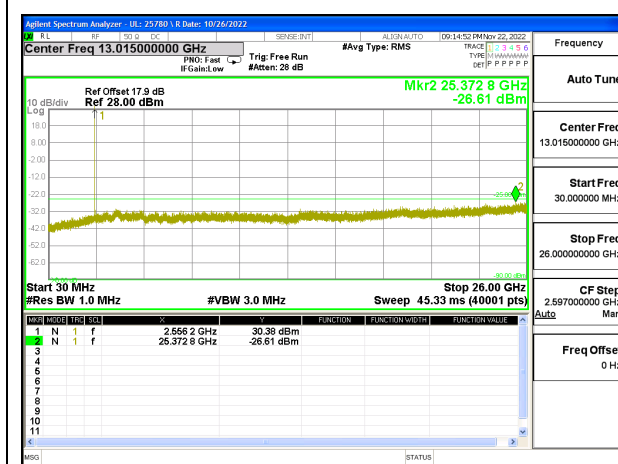
LTE B7 10MHz QPSK High Channel RB1-0



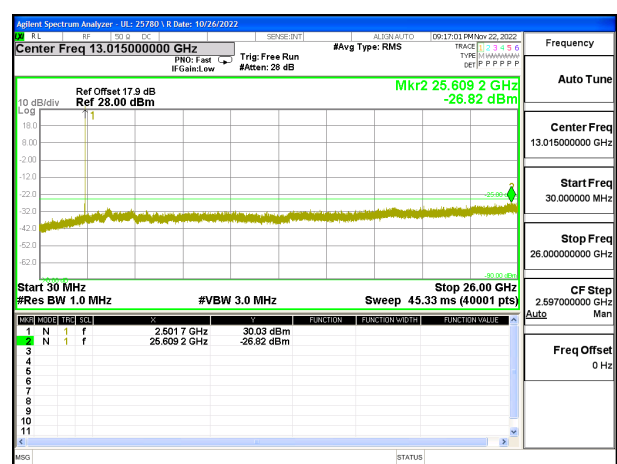
LTE B7 15MHz QPSK Low Channel RB1-0



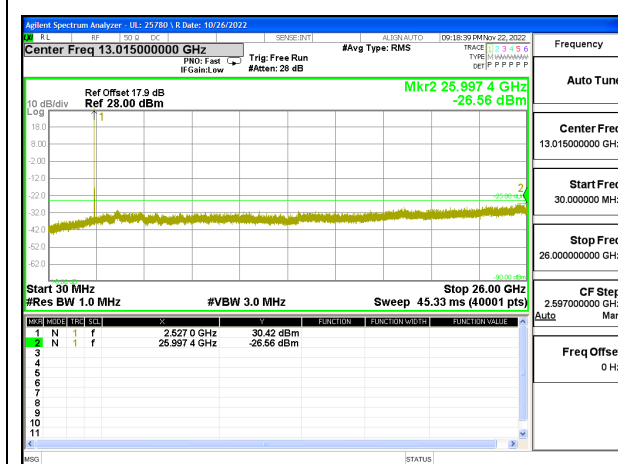
LTE B7 15MHz QPSK Middle Channel RB1-0



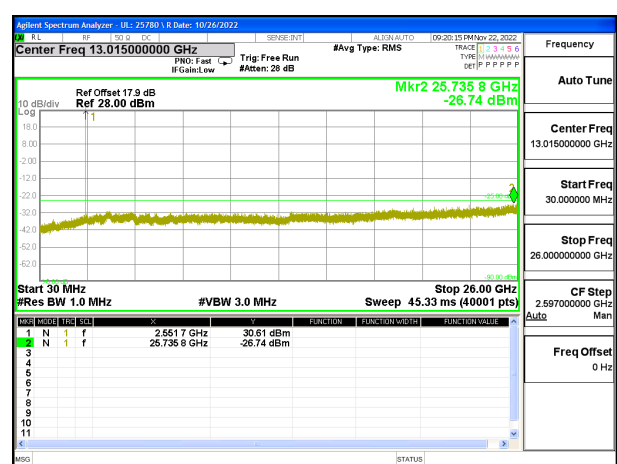
LTE B7 15MHz QPSK High Channel RB1-0



LTE B7 20MHz QPSK Low Channel RB1-0

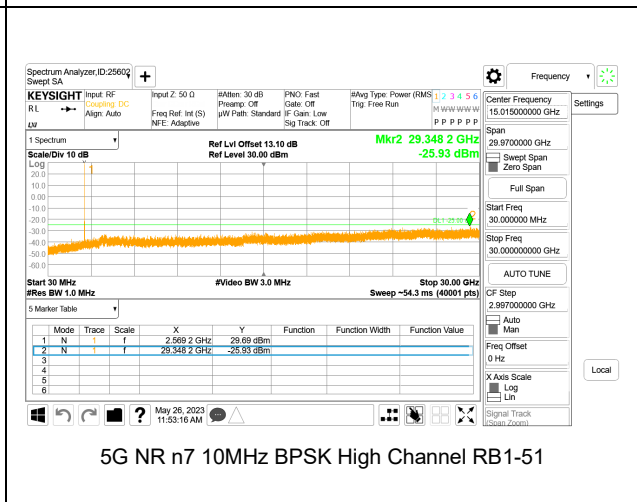
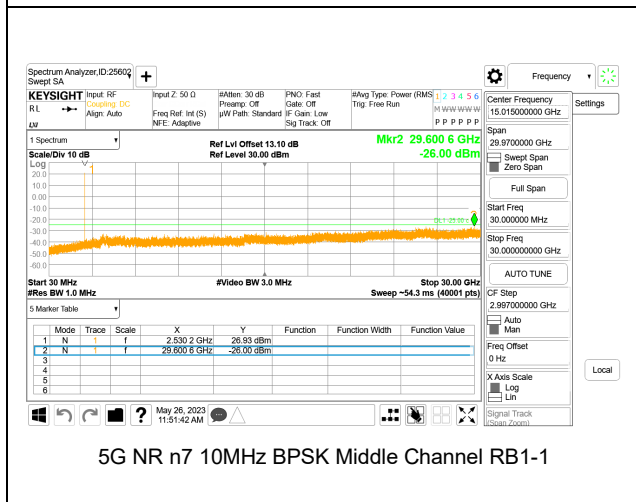
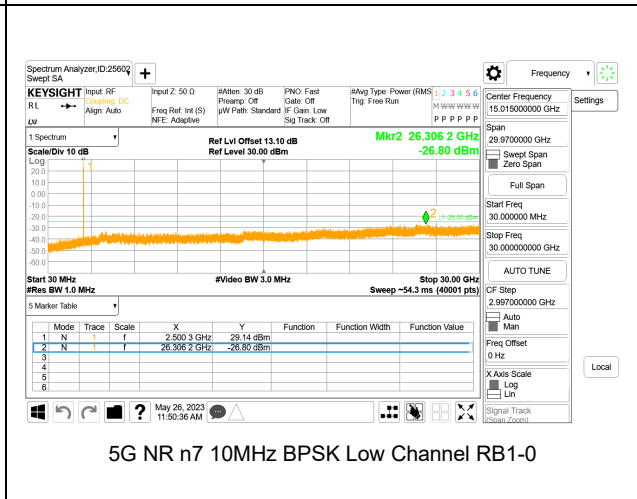
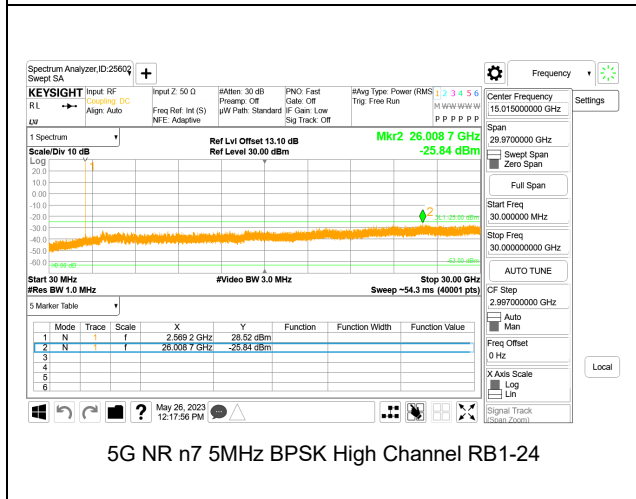
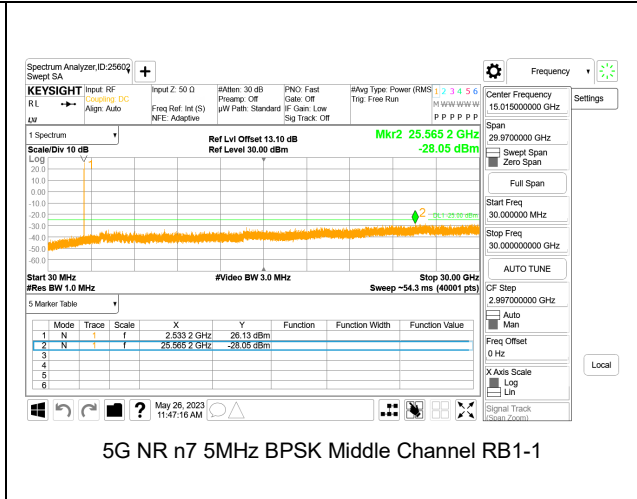
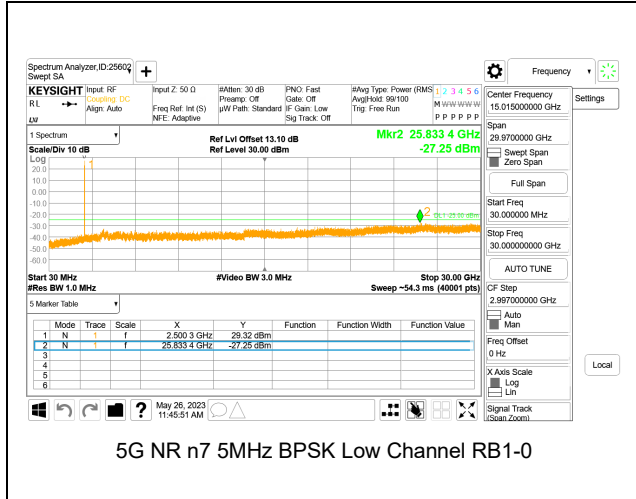


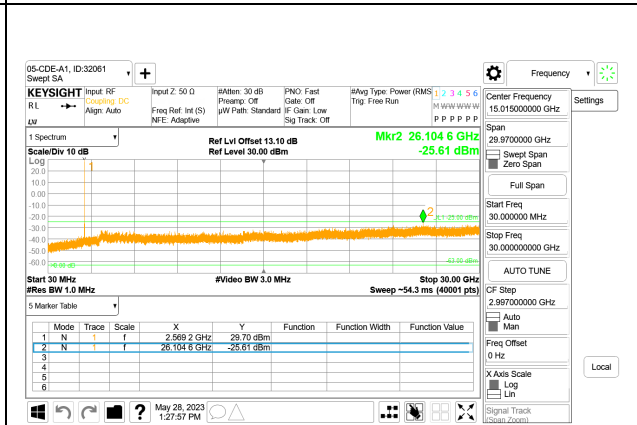
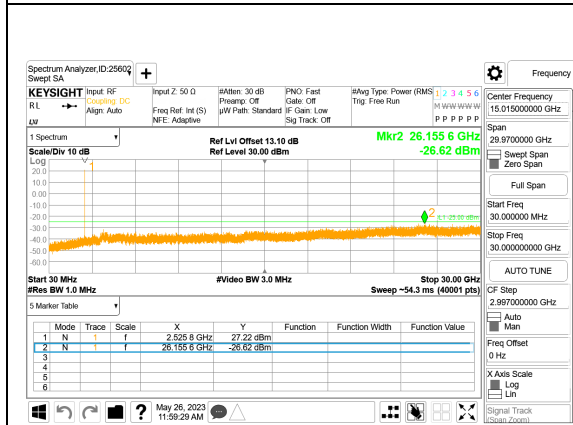
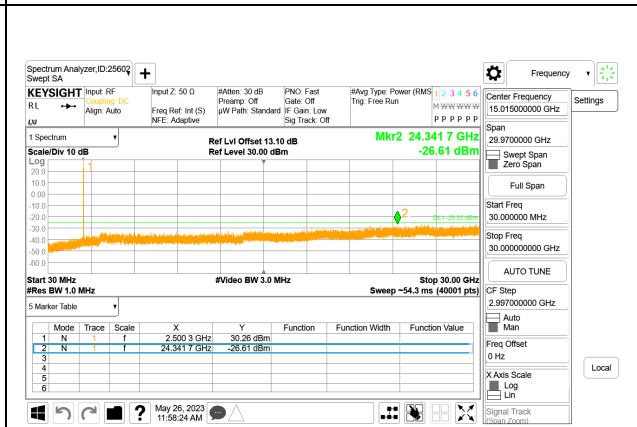
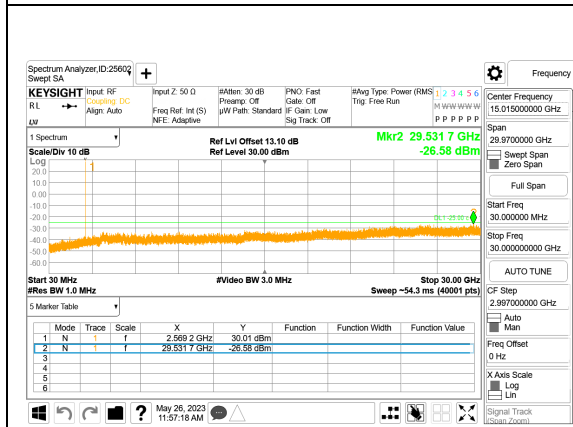
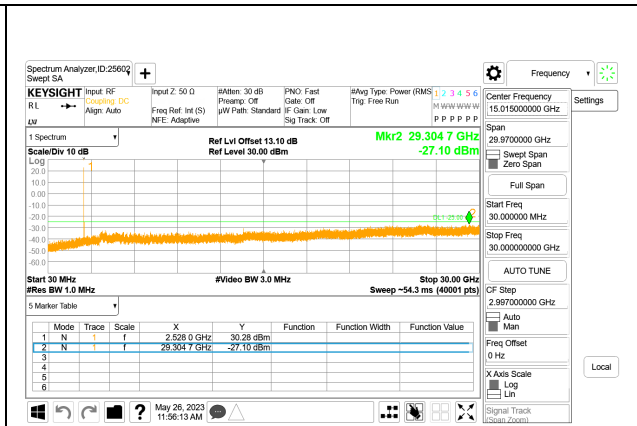
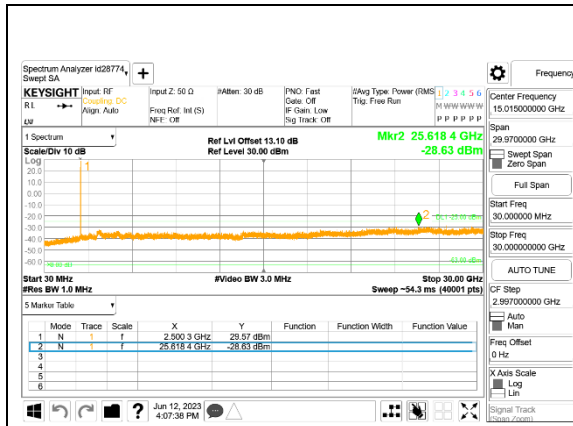
LTE B7 20MHz QPSK Middle Channel RB1-0

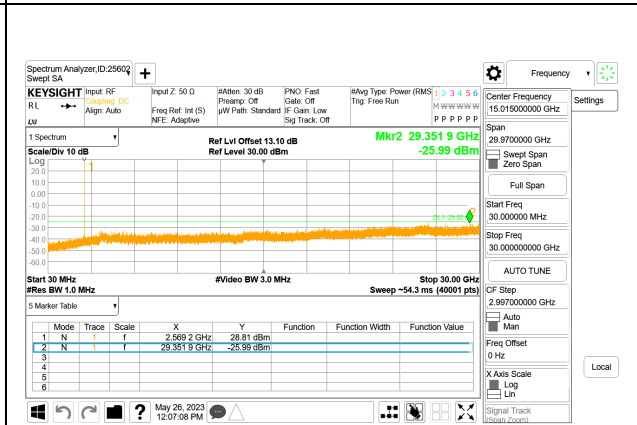
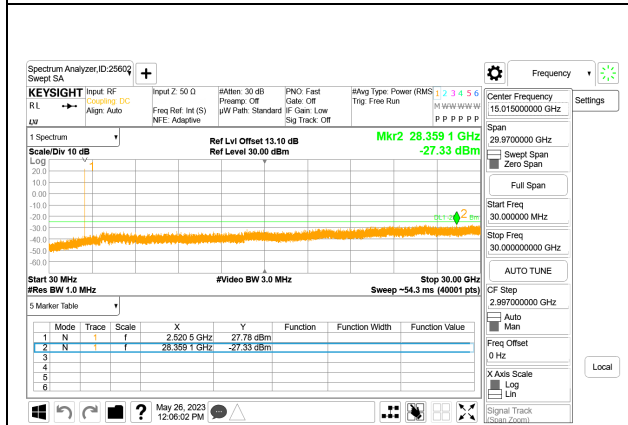
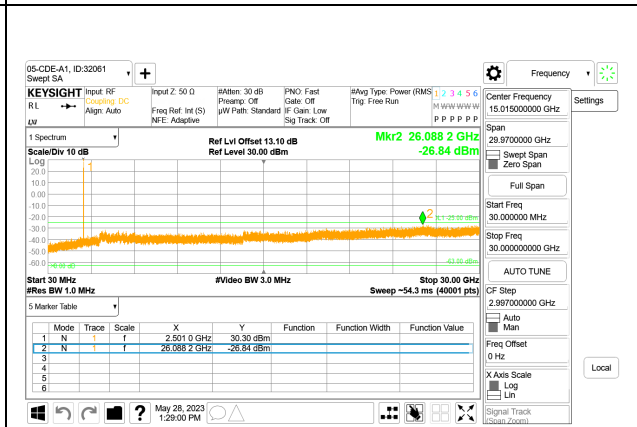
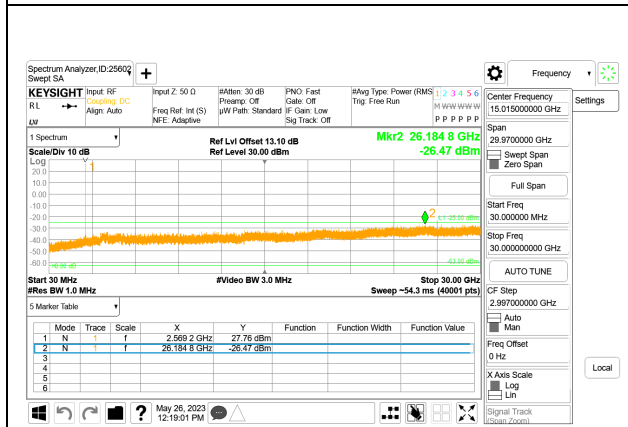
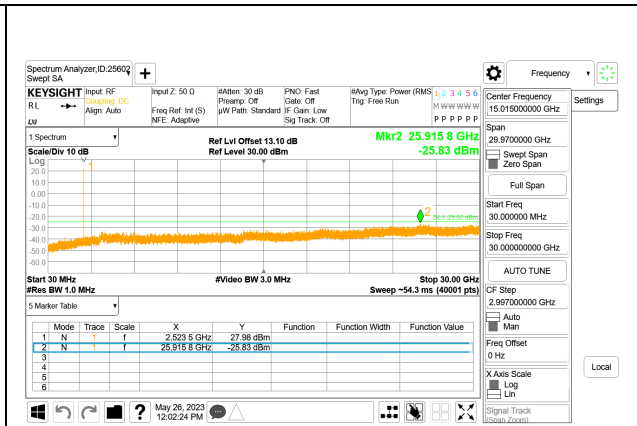
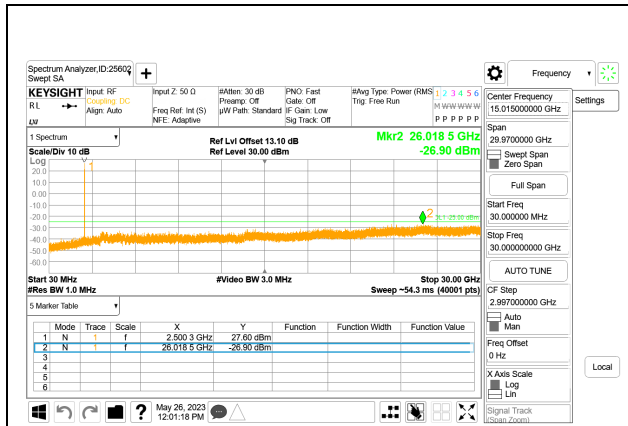


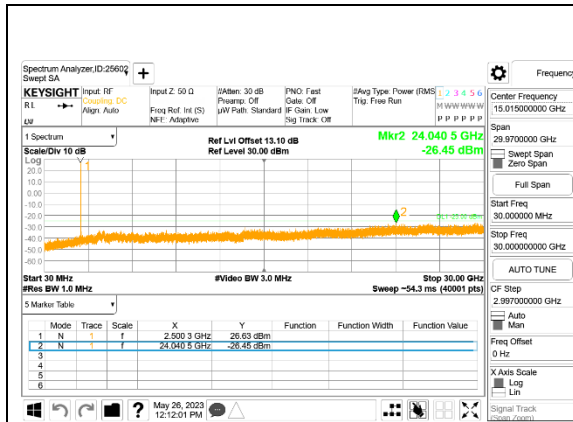
LTE B7 20MHz QPSK High Channel RB1-0

5G NR n7

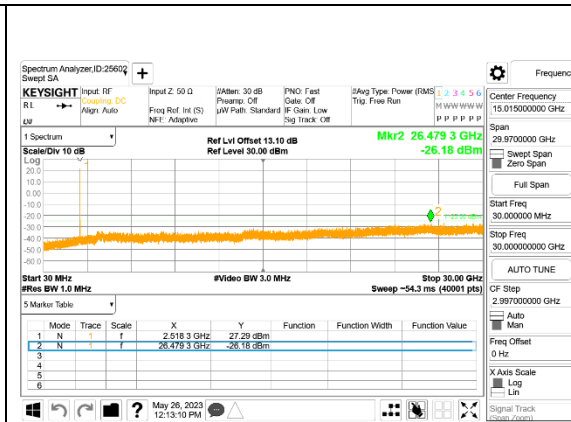




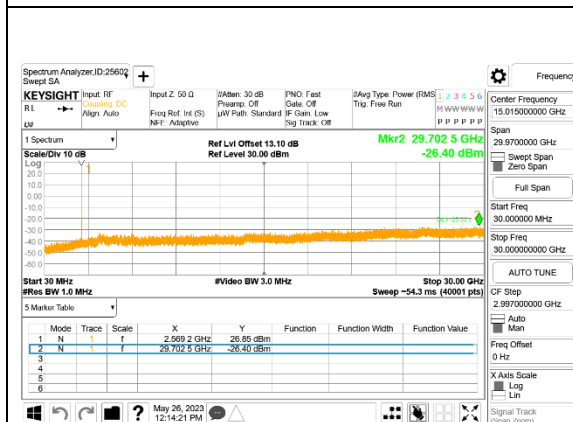




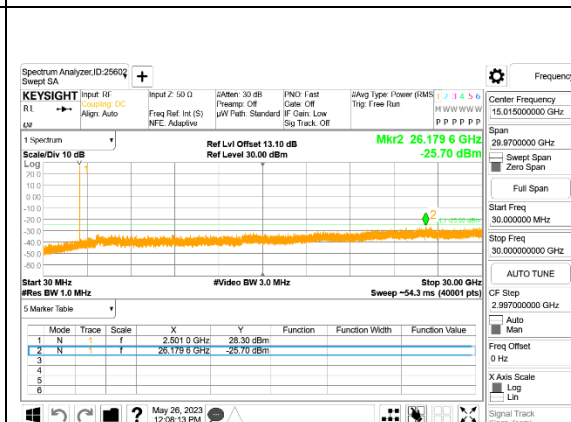
5G NR n7 35MHz BPSK Low Channel RB1-0



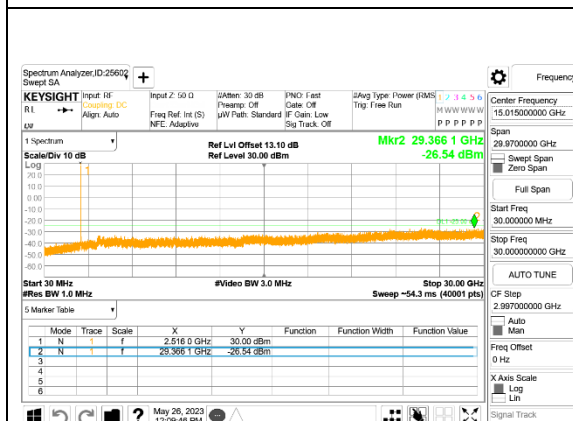
5G NR n7 35MHz BPSK Middle Channel RB1-1



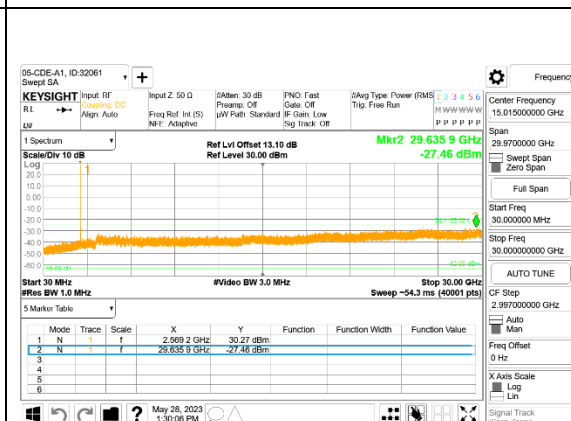
5G NR n7 35MHz BPSK High Channel RB1-187



5G NR n7 40MHz BPSK Low Channel RB1-0



5G NR n7 40MHz BPSK Middle Channel RB1-1



5G NR n7 40MHz BPSK High Channel RB1-215

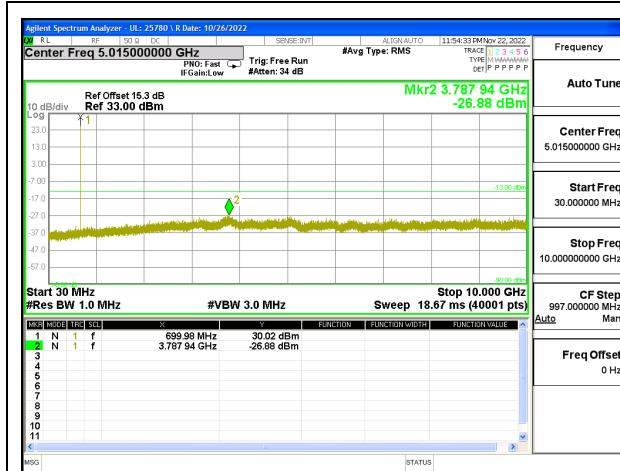
9.3.2. LTE BAND 12 AND 5G NR n12

LIMITS

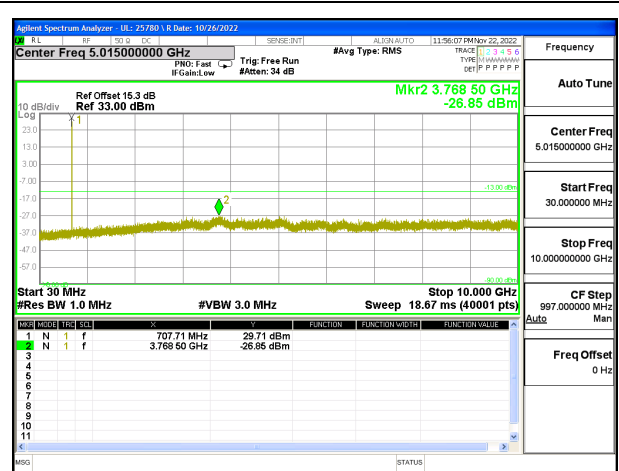
FCC: §27.53 (g)

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

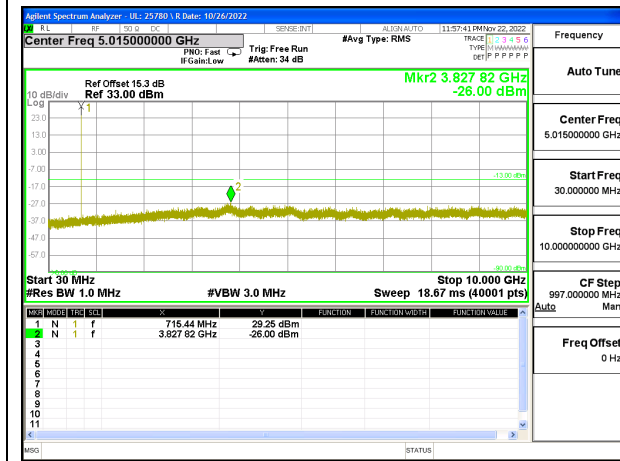
LTE BAND 12



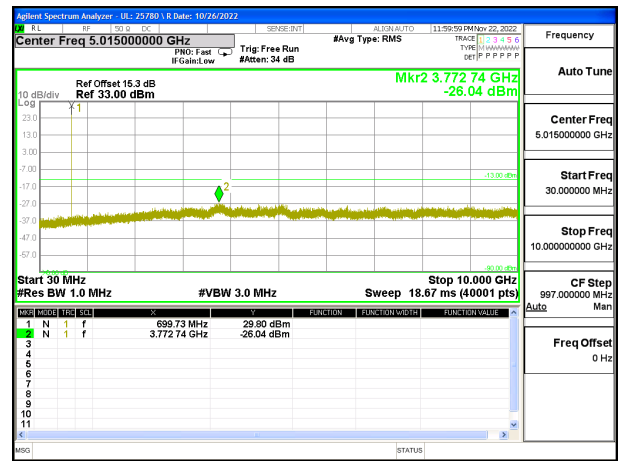
LTE B12 1.4MHz QPSK Low Channel RB1-0



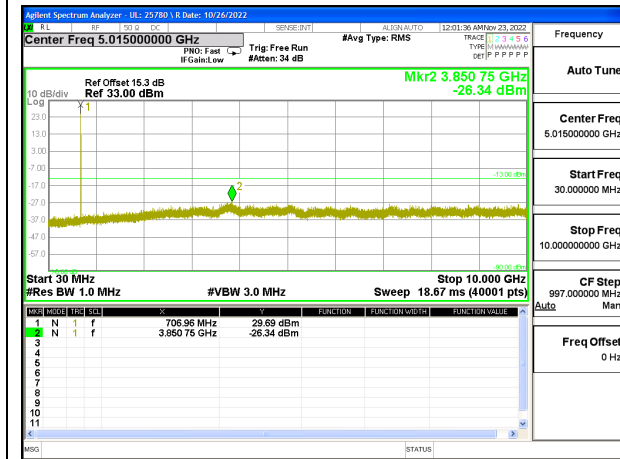
LTE B12 1.4MHz QPSK Middle Channel RB1-0



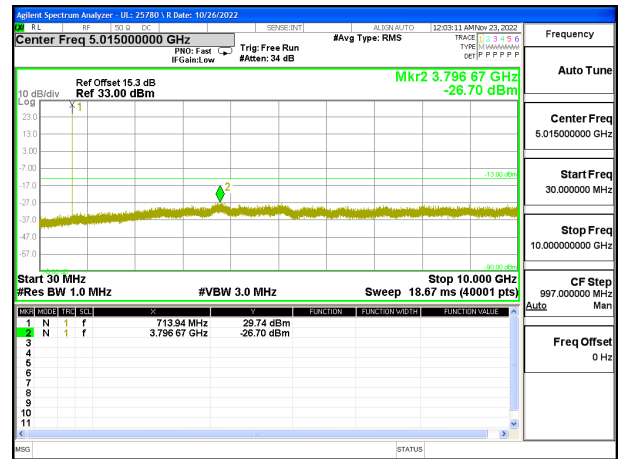
LTE B12 1.4MHz QPSK High Channel RB1-0



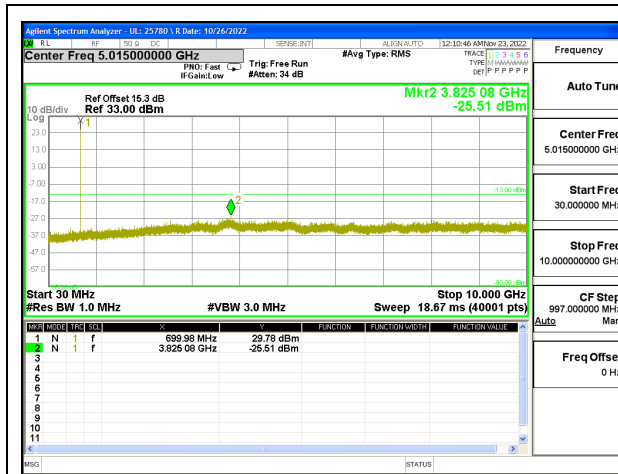
LTE B12 3MHz QPSK Low Channel RB1-0



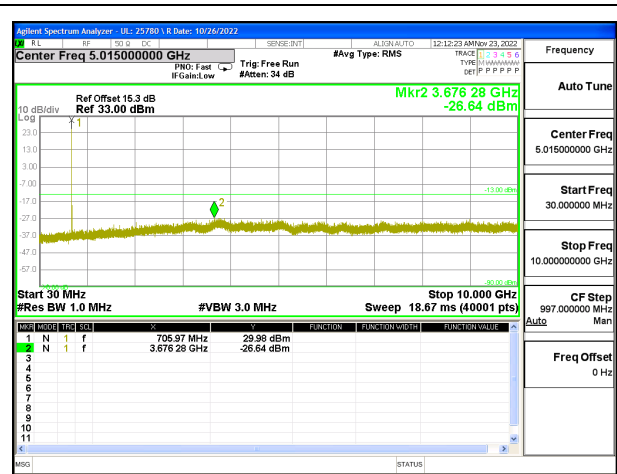
LTE B12 3MHz QPSK Middle Channel RB1-0



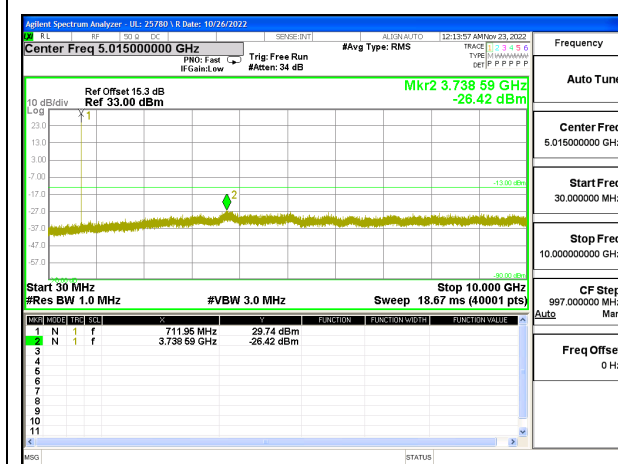
LTE B12 3MHz QPSK High Channel RB1-0



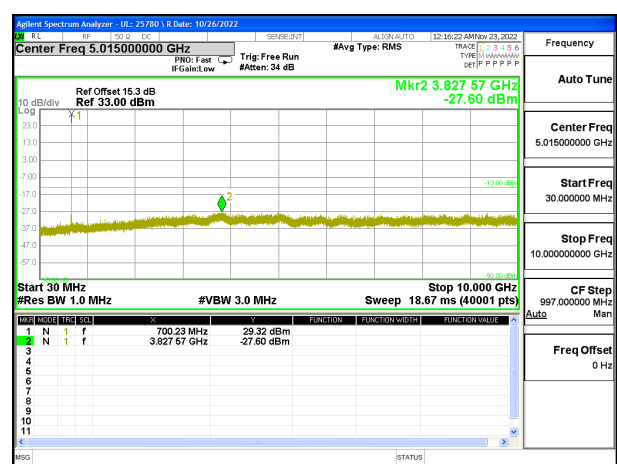
LTE B12 5MHz QPSK Low Channel RB1-0



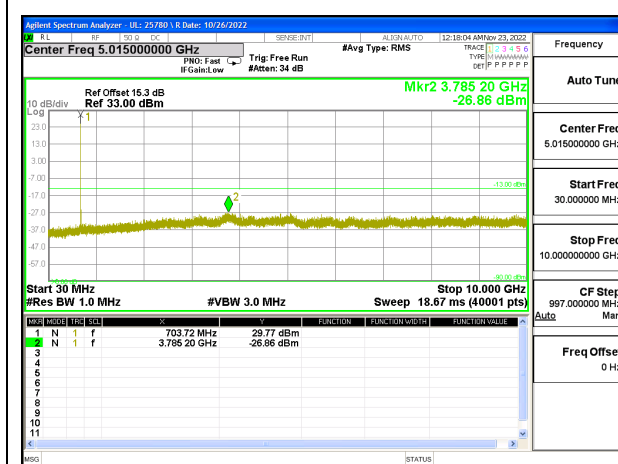
LTE B12 5MHz QPSK Middle Channel RB1-0



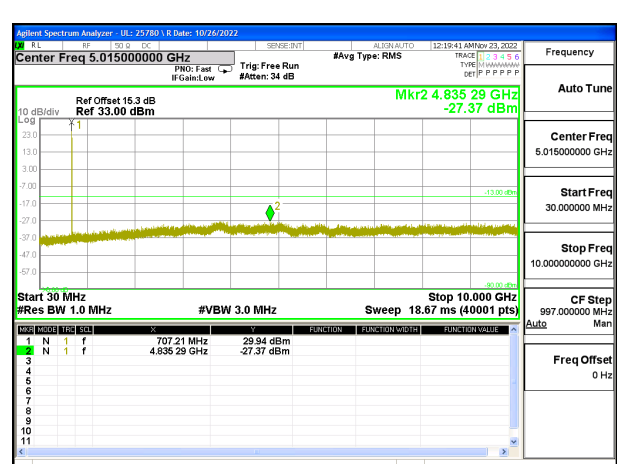
LTE B12 5MHz QPSK High Channel RB1-0



LTE B12 10MHz QPSK Low Channel RB1-0



LTE B12 10MHz QPSK Middle Channel RB1-0

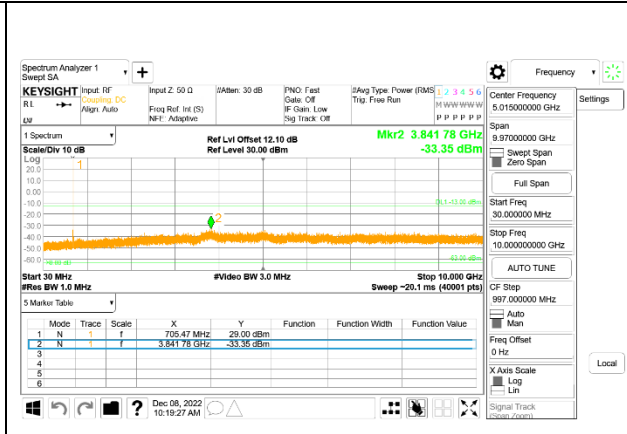


LTE B12 10MHz QPSK High Channel RB1-0

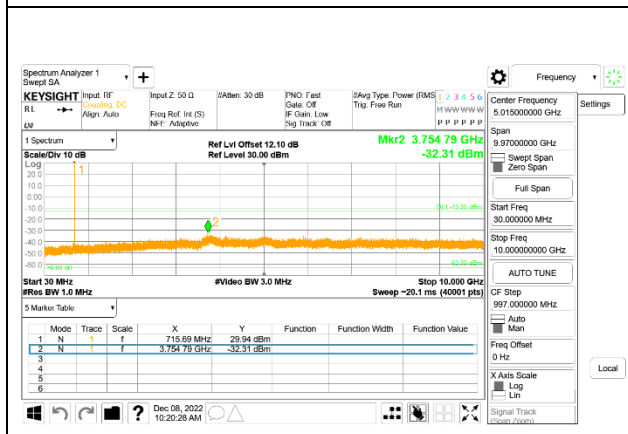
5G NR n12



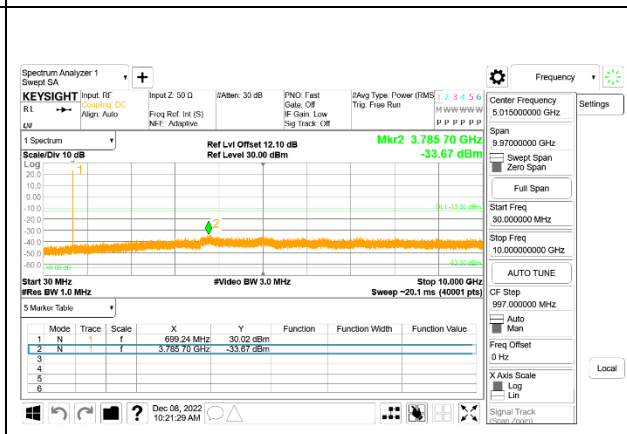
5G NR n12 5MHz BPSK Low Channel RB1-0, ID:25602



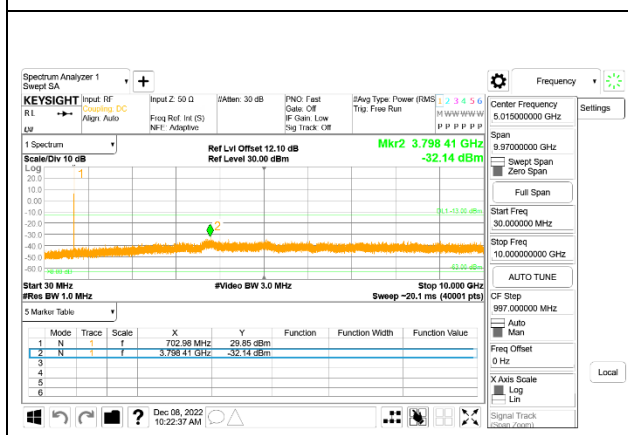
5G NR n12 5MHz BPSK Middle Channel RB1-1, ID:25602



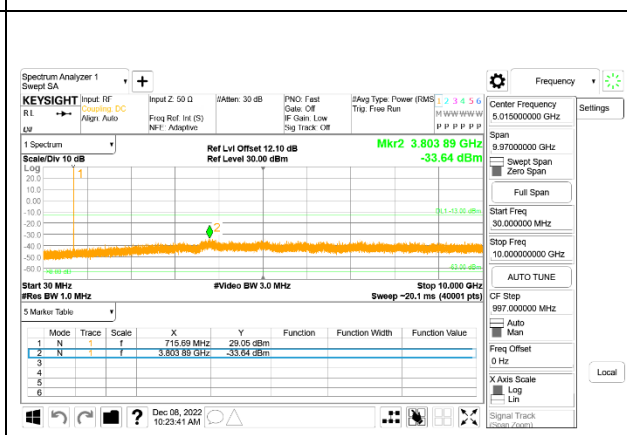
5G NR n12 5MHz BPSK High Channel RB1-24, ID:25602



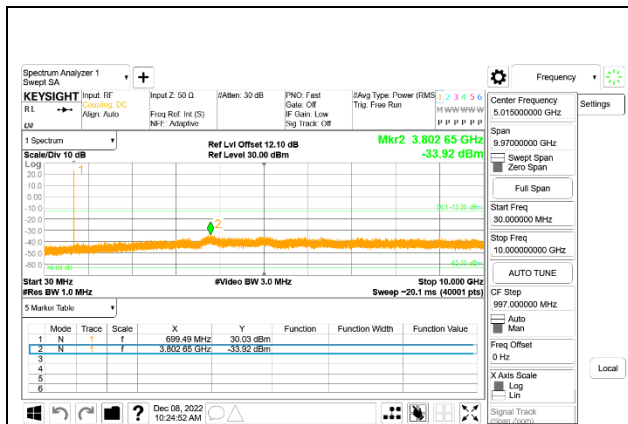
5G NR n12 10MHz BPSK Low Channel RB1-0, ID:25602



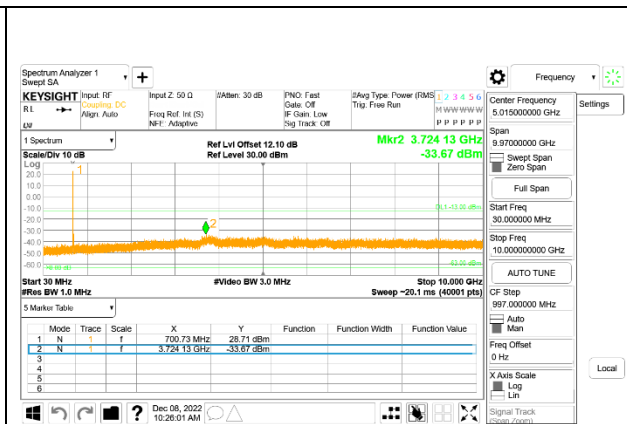
5G NR n12 10MHz BPSK Middle Channel RB1-1, ID:25602



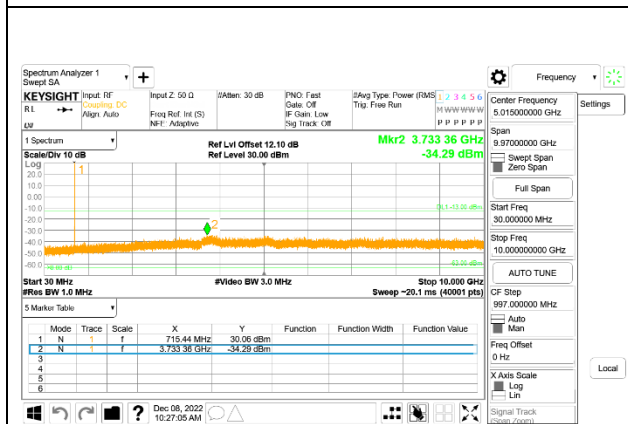
5G NR n12 10MHz BPSK High Channel RB1-51, ID:25602



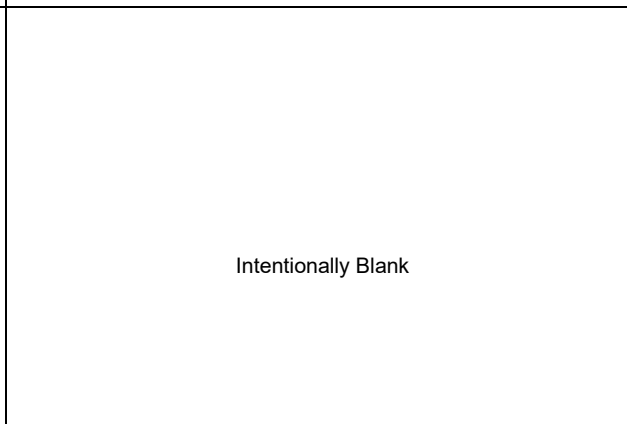
5G NR n12 15MHz BPSK Low Channel RB1-0, ID:25602



5G NR n12 15MHz BPSK Middle Channel RB1-1, 25602



5G NR n12 15MHz BPSK High Channel RB1-78, ID:25602



Intentionally Blank