



n77(3700-3980) SCS=30kHz DFT\_QAM64 BW=80MHz Channel=656000 RB=216@0



n77(3700-3980) SCS=30kHz DFT\_QAM64 BW=90MHz Channel=656000 RB=240@0



n77(3700-3980) SCS=30kHz DFT\_QPSK BW=100MHz Channel=656000 RB=270@0



n77(3700-3980) SCS=30kHz DFT\_QPSK BW=10MHz Channel=656000 RB=24@0



n77(3700-3980) SCS=30kHz DFT\_QPSK BW=15MHz Channel=656000 RB=36@0



n77(3700-3980) SCS=30kHz DFT\_QPSK BW=20MHz Channel=656000 RB=50@0



n77(3700-3980) SCS=30kHz DFT\_QPSK BW=30MHz Channel=656000 RB=75@0



n77(3700-3980) SCS=30kHz DFT\_QPSK BW=40MHz Channel=656000 RB=100@0



n77(3700-3980) SCS=30kHz DFT\_QPSK BW=50MHz Channel=656000 RB=128@0



n77(3700-3980) SCS=30kHz DFT\_QPSK BW=60MHz Channel=656000 RB=162@0



n77(3700-3980) SCS=30kHz DFT\_QPSK BW=80MHz Channel=656000 RB=216@0



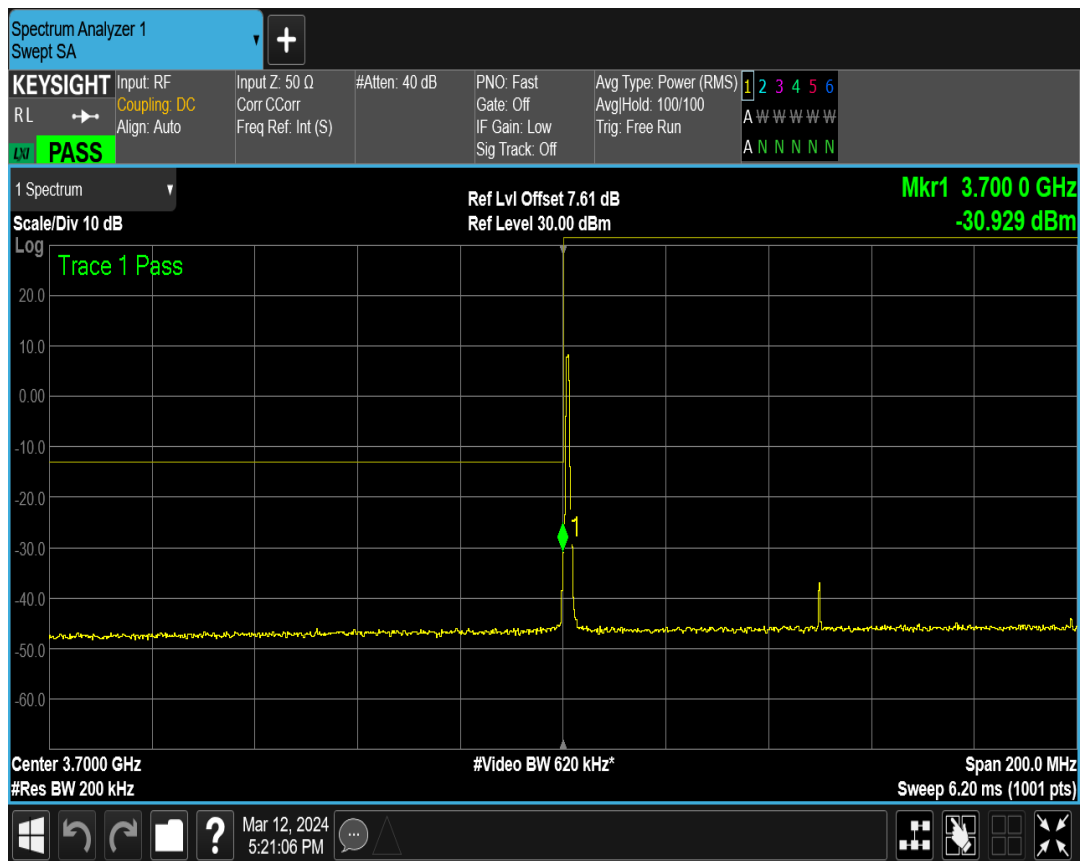
n77(3700-3980) SCS=30kHz DFT\_QPSK BW=90MHz Channel=656000 RB=240@0



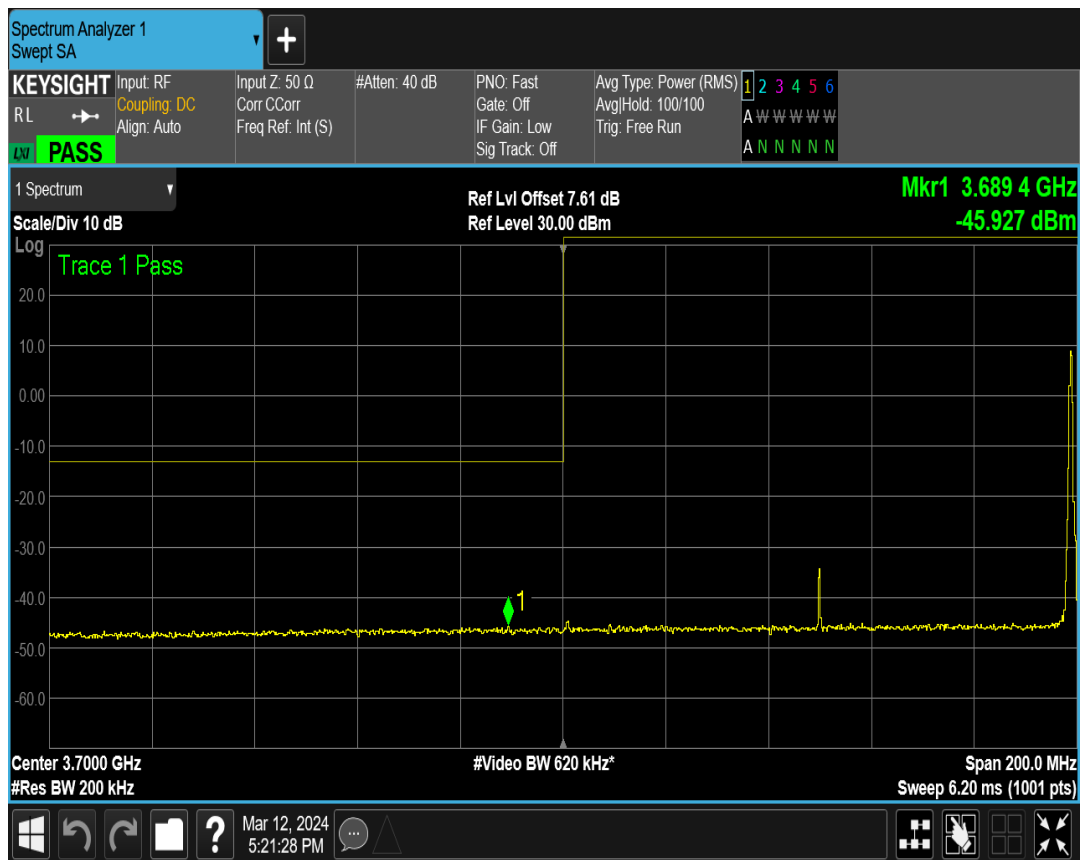
## 5 Band edge for NR FR1

| Band           | SCS (kHz) | Bandwidth (MHz) | UL Channel | RB Allocation | Modulation | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|----------------|-----------|-----------------|------------|---------------|------------|-----------------|------------------|-------------|---------|
| n77(3700-3980) | 30        | 10              | 647000     | 24@0          | CP_QPSK    | 3699.58         | -42.01           | -13         | PASS    |
| n77(3700-3980) | 30        | 10              | 647000     | 1@0           | CP_QPSK    | 3699.96         | -40.84           | -13         | PASS    |
| n77(3700-3980) | 30        | 10              | 647000     | 1@23          | CP_QPSK    | 3693.70         | -45.35           | -13         | PASS    |
| n77(3700-3980) | 30        | 10              | 665000     | 24@0          | CP_QPSK    | 3980.32         | -40.42           | -13         | PASS    |
| n77(3700-3980) | 30        | 10              | 665000     | 1@0           | CP_QPSK    | 3986.30         | -45.66           | -13         | PASS    |
| n77(3700-3980) | 30        | 10              | 665000     | 1@23          | CP_QPSK    | 3980.02         | -43.58           | -13         | PASS    |
| n77(3700-3980) | 30        | 50              | 648334     | 133@0         | CP_QPSK    | 3700.00         | -39.28           | -13         | PASS    |
| n77(3700-3980) | 30        | 50              | 648334     | 1@0           | CP_QPSK    | 3699.70         | -44.32           | -13         | PASS    |
| n77(3700-3980) | 30        | 50              | 648334     | 1@132         | CP_QPSK    | 3694.00         | -45.79           | -13         | PASS    |
| n77(3700-3980) | 30        | 50              | 663666     | 133@0         | CP_QPSK    | 3981.10         | -39.17           | -13         | PASS    |
| n77(3700-3980) | 30        | 50              | 663666     | 1@0           | CP_QPSK    | 3985.90         | -46.71           | -13         | PASS    |
| n77(3700-3980) | 30        | 50              | 663666     | 1@132         | CP_QPSK    | 3980.00         | -38.94           | -13         | PASS    |
| n77(3700-3980) | 30        | 100             | 650000     | 273@0         | CP_QPSK    | 3700.00         | -25.46           | -13         | PASS    |
| n77(3700-3980) | 30        | 100             | 650000     | 1@0           | CP_QPSK    | 3700.00         | -30.92           | -13         | PASS    |
| n77(3700-3980) | 30        | 100             | 650000     | 1@272         | CP_QPSK    | 3689.40         | -45.92           | -13         | PASS    |
| n77(3700-3980) | 30        | 100             | 662000     | 273@0         | CP_QPSK    | 3980.00         | -24.21           | -13         | PASS    |
| n77(3700-3980) | 30        | 100             | 662000     | 1@0           | CP_QPSK    | 3990.40         | -46.41           | -13         | PASS    |
| n77(3700-3980) | 30        | 100             | 662000     | 1@272         | CP_QPSK    | 3980.00         | -38.79           | -13         | PASS    |

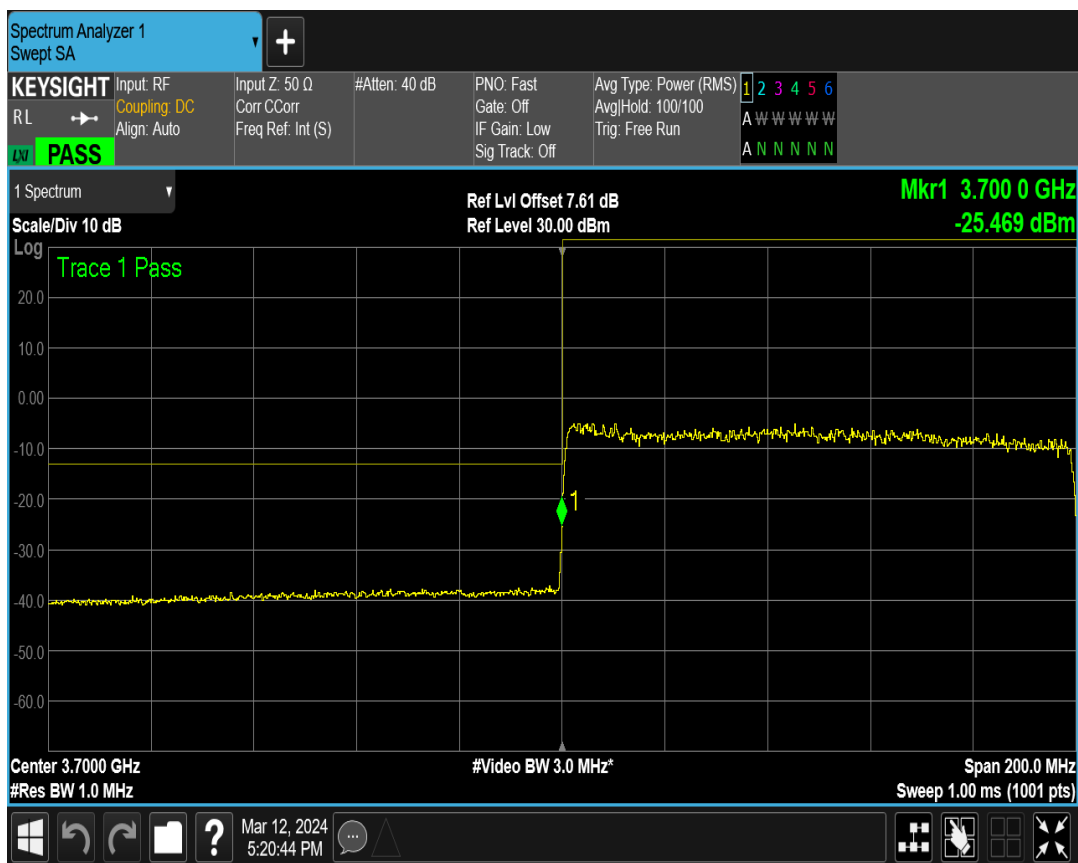
n77(3700-3980) SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=1@0



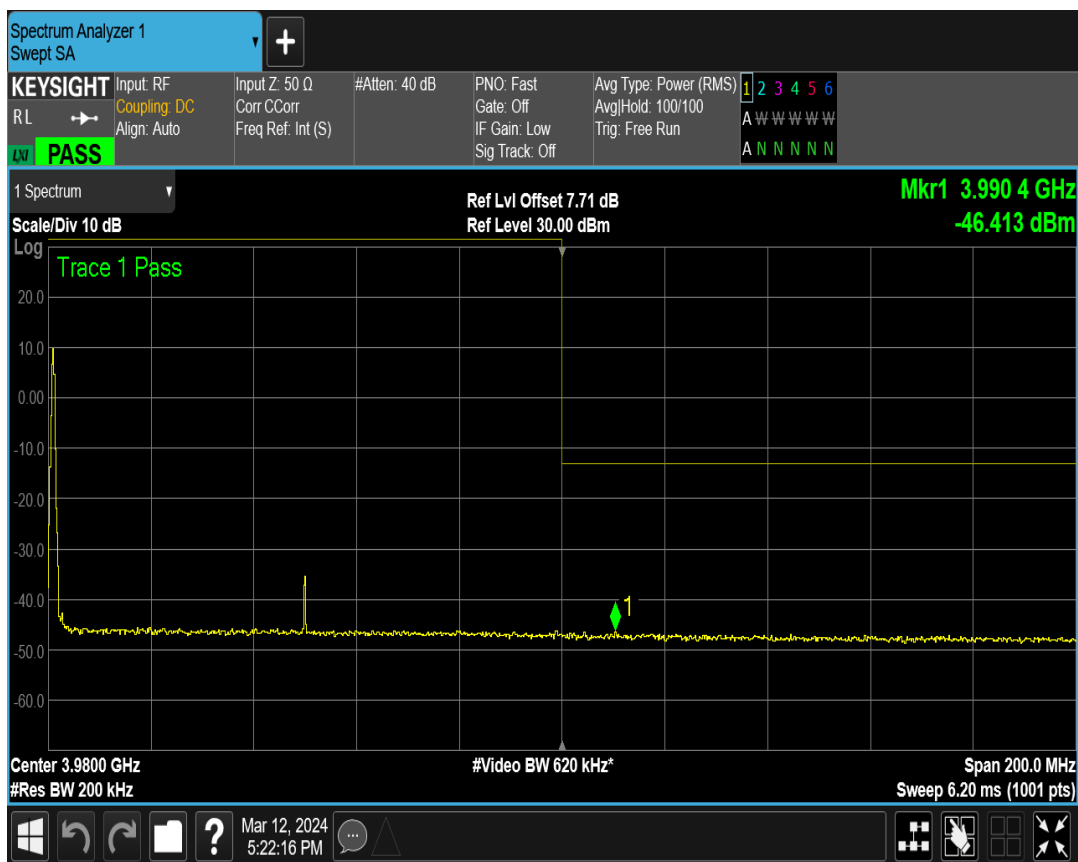
n77(3700-3980) SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=1@272



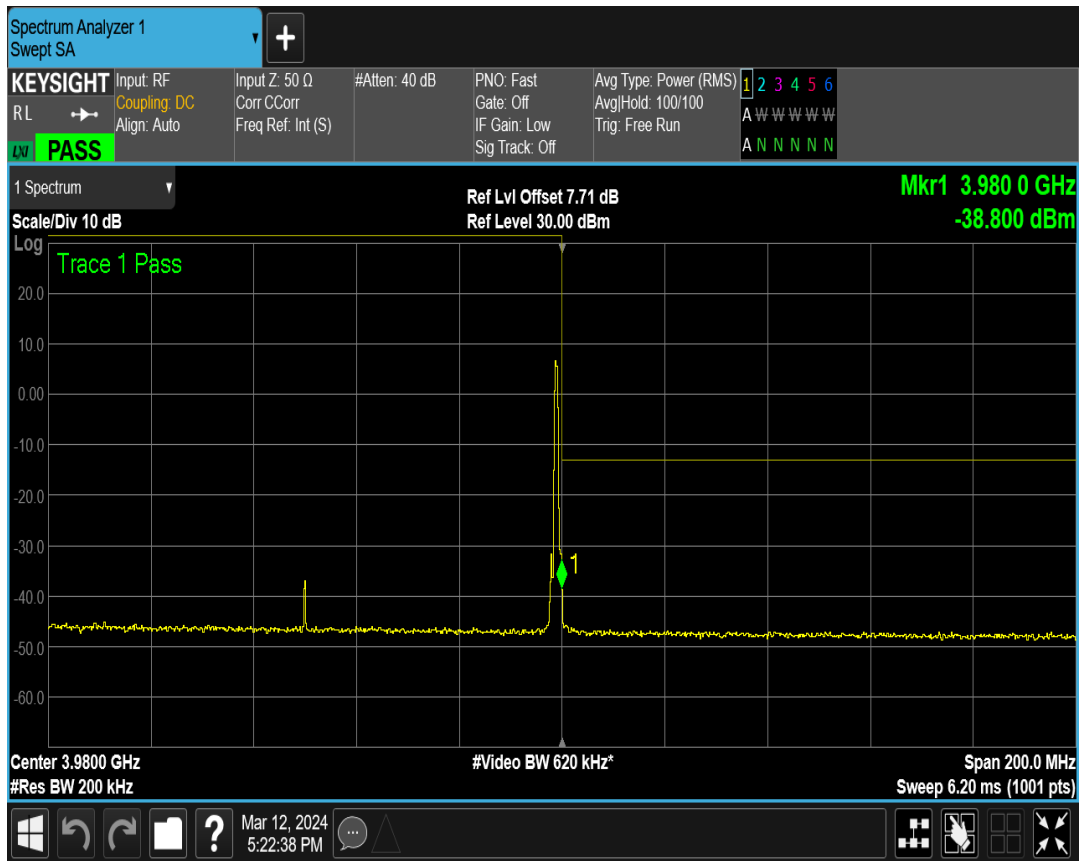
n77(3700-3980) SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=273@0



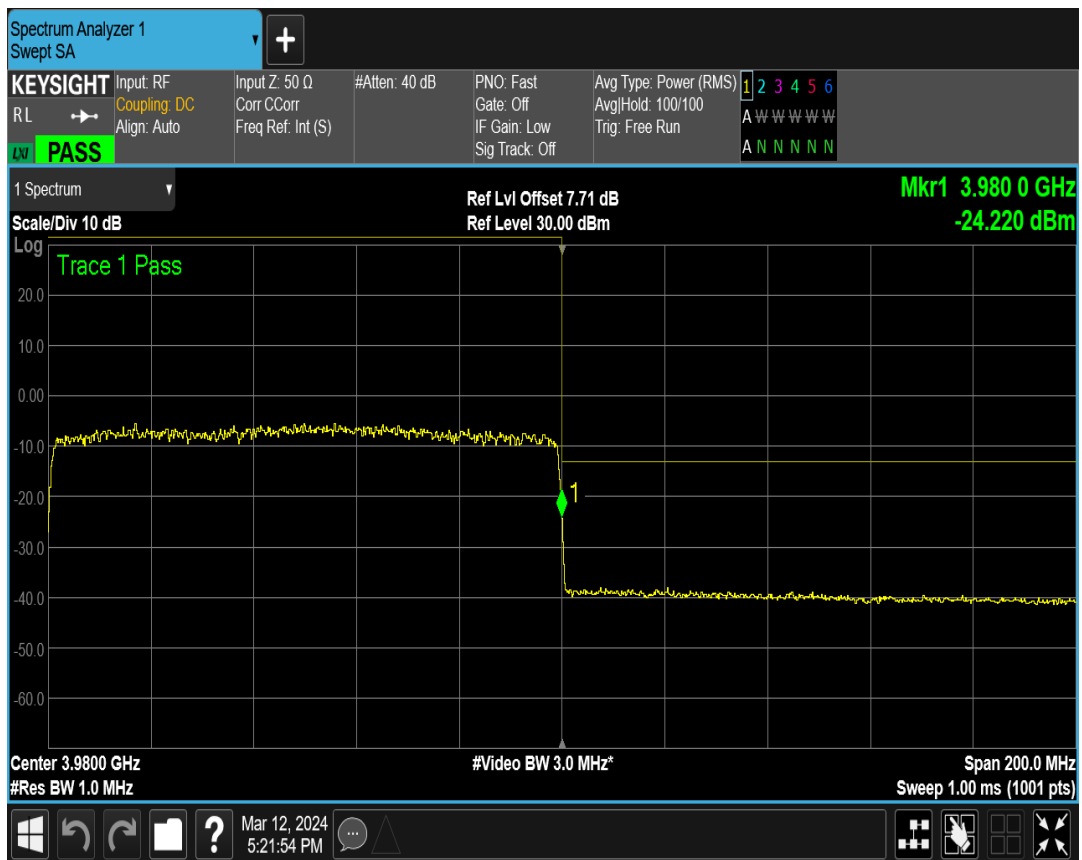
n77(3700-3980) SCS=30kHz CP\_QPSK BW=100MHz Channel=662000 RB=1@0



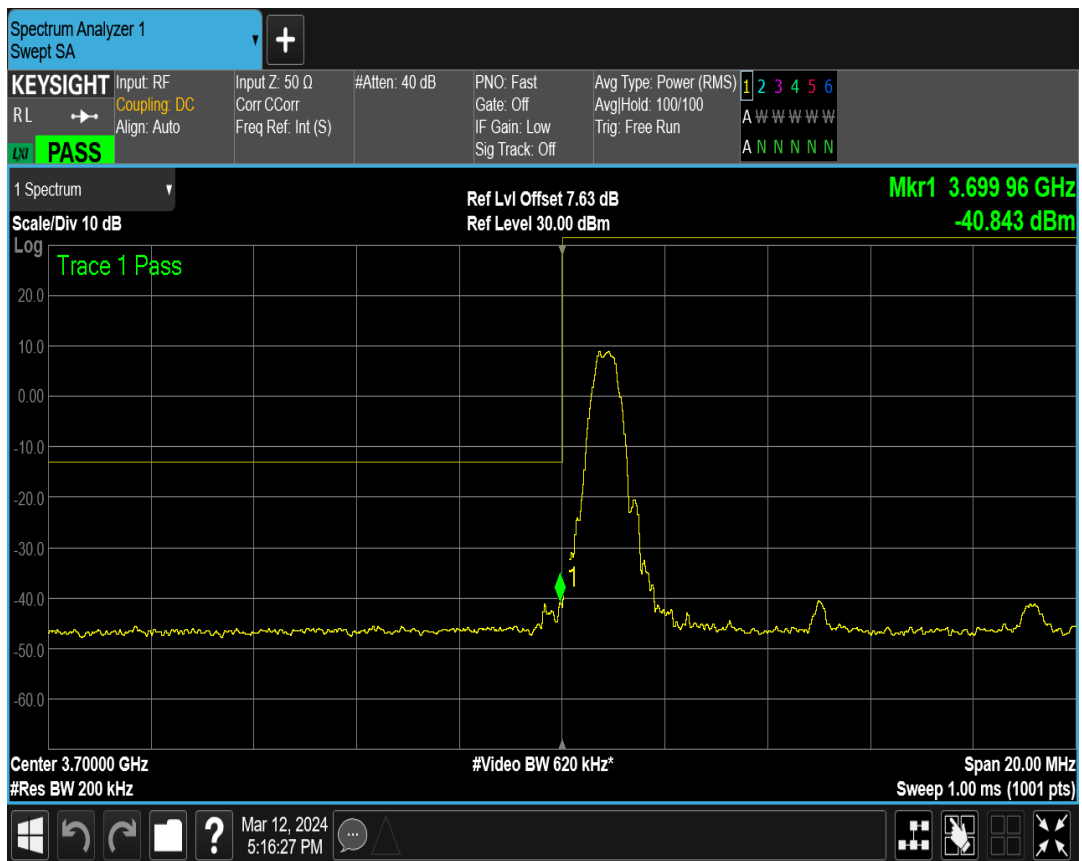
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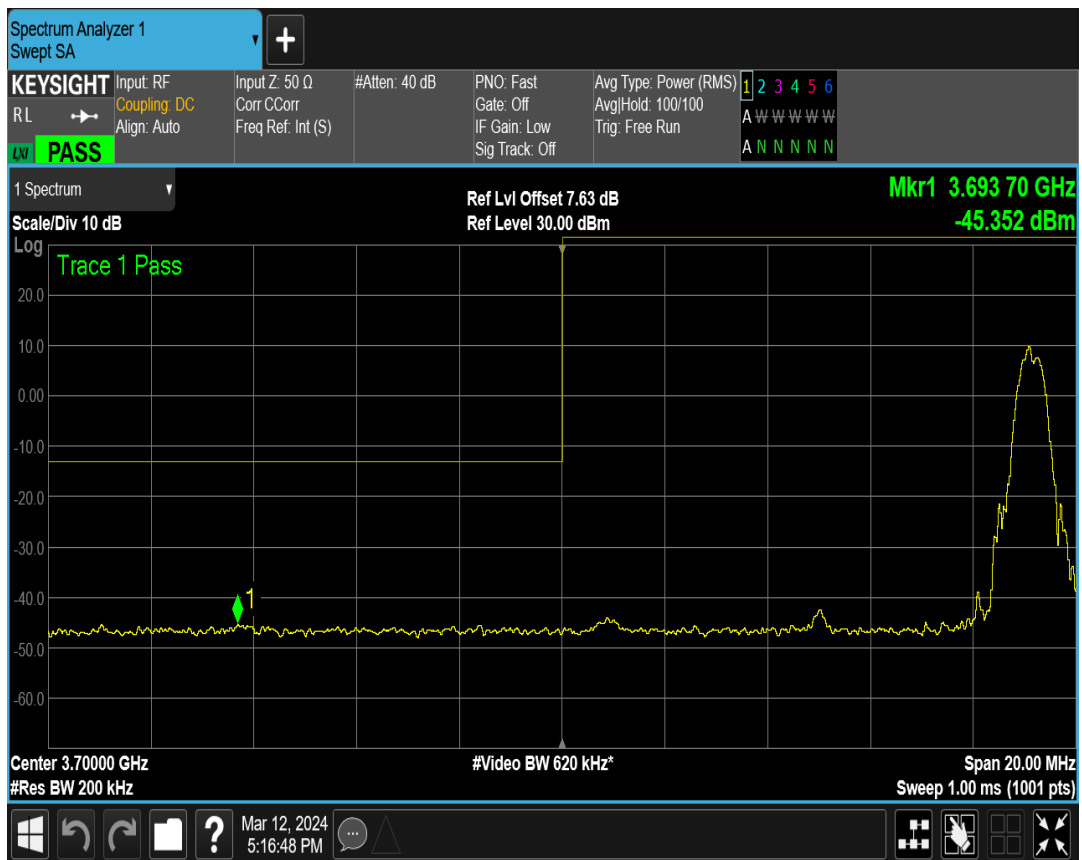
n77(3700-3980) SCS=30kHz CP\_QPSK BW=100MHz Channel=662000 RB=273@0



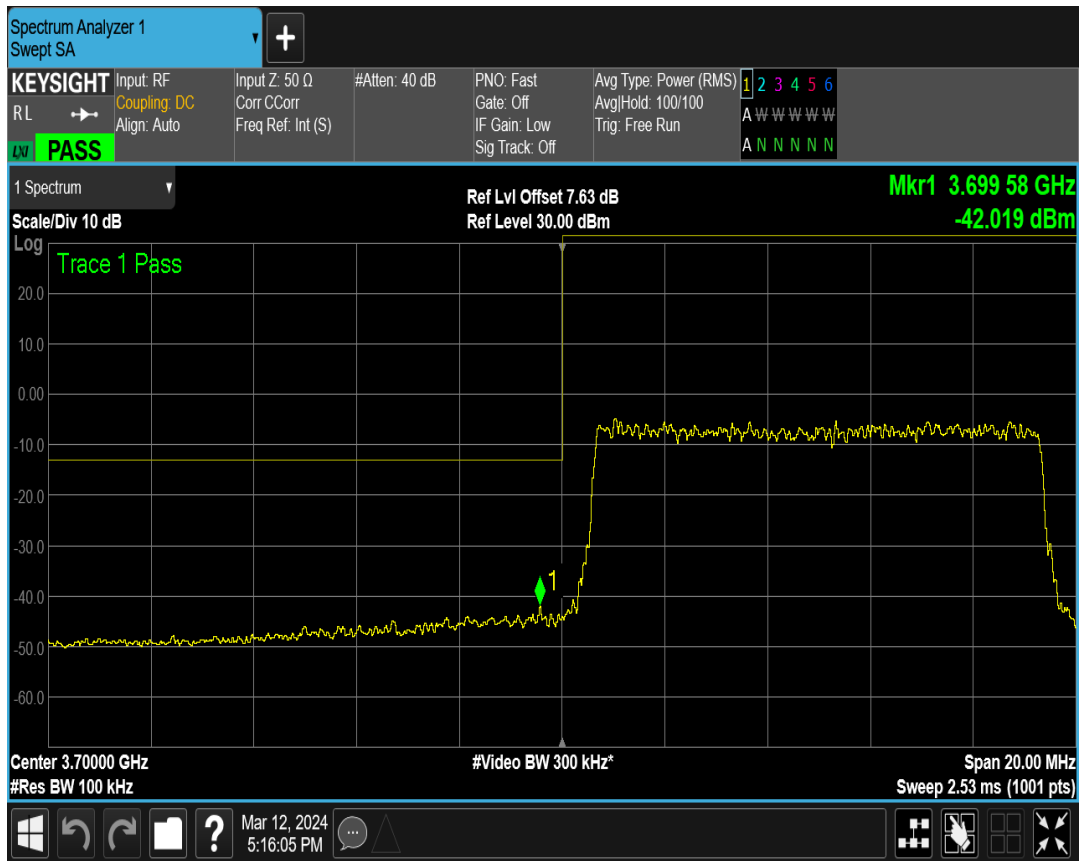
n77(3700-3980) SCS=30kHz CP\_QPSK BW=10MHz Channel=647000 RB=1@0



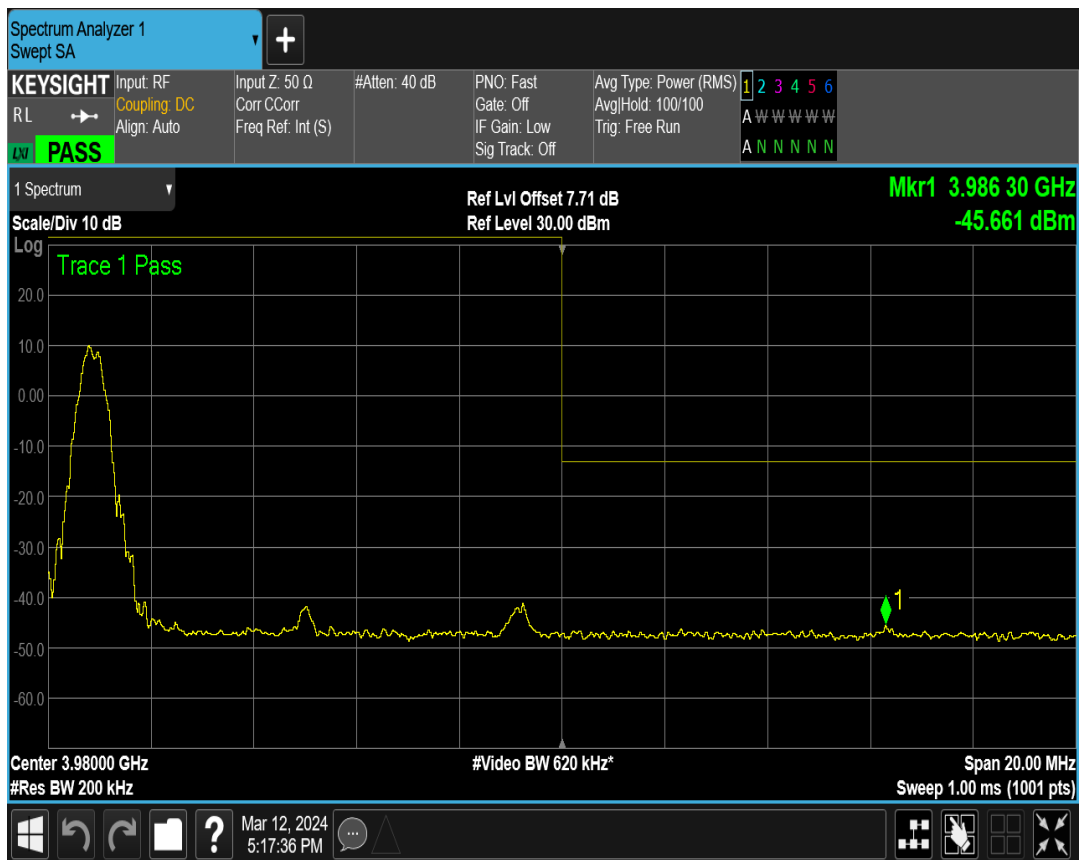
n77(3700-3980) SCS=30kHz CP\_QPSK BW=10MHz Channel=647000 RB=1@23



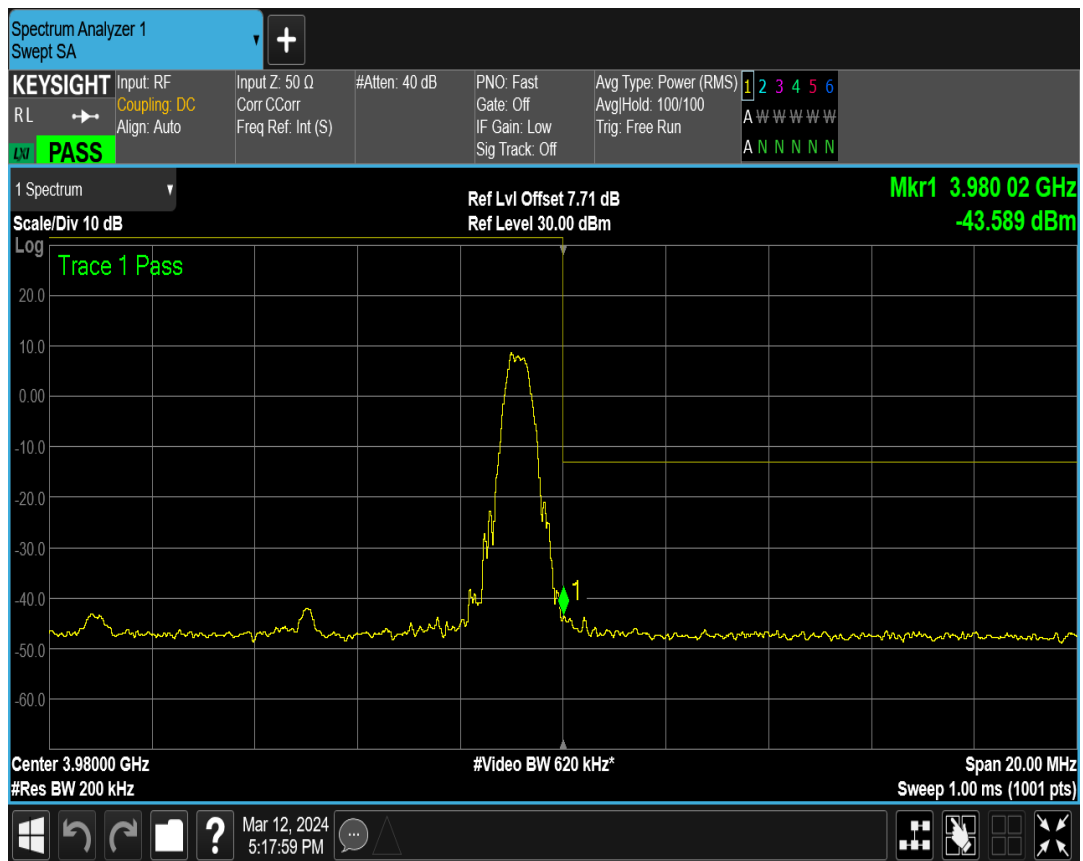
n77(3700-3980) SCS=30kHz CP\_QPSK BW=10MHz Channel=647000 RB=24@0



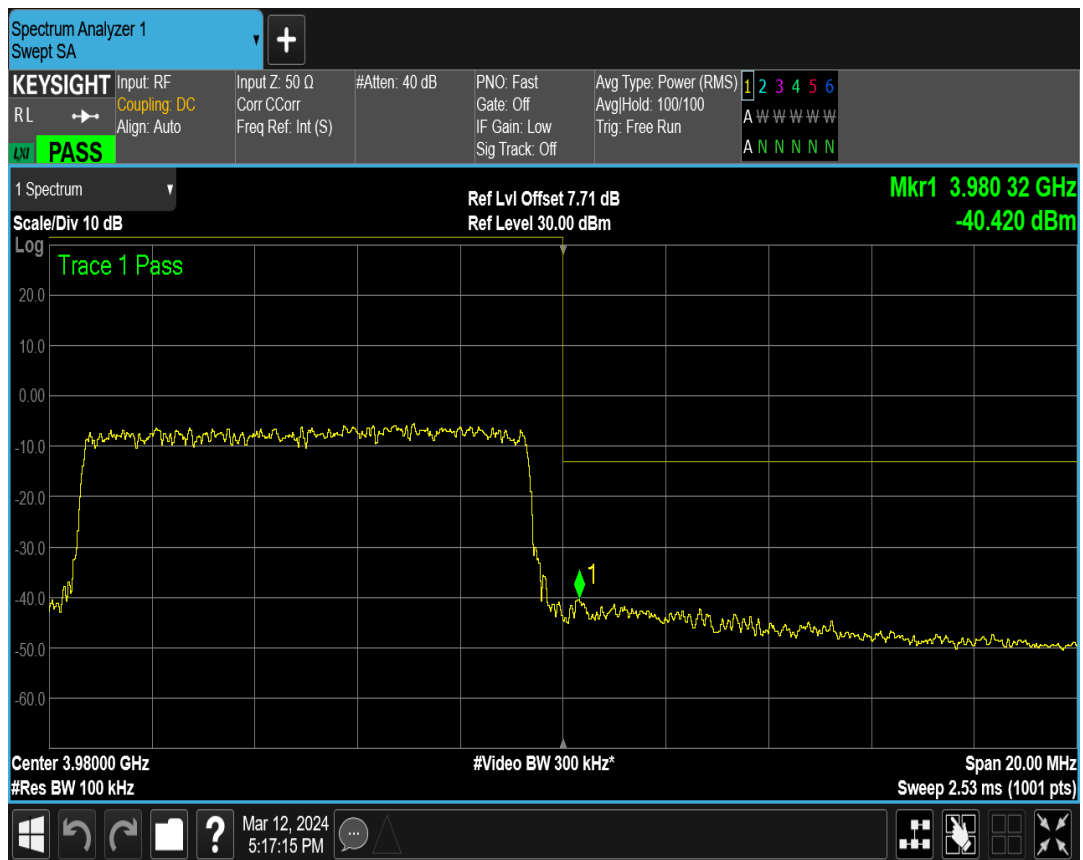
n77(3700-3980) SCS=30kHz CP\_QPSK BW=10MHz Channel=665000 RB=1@0



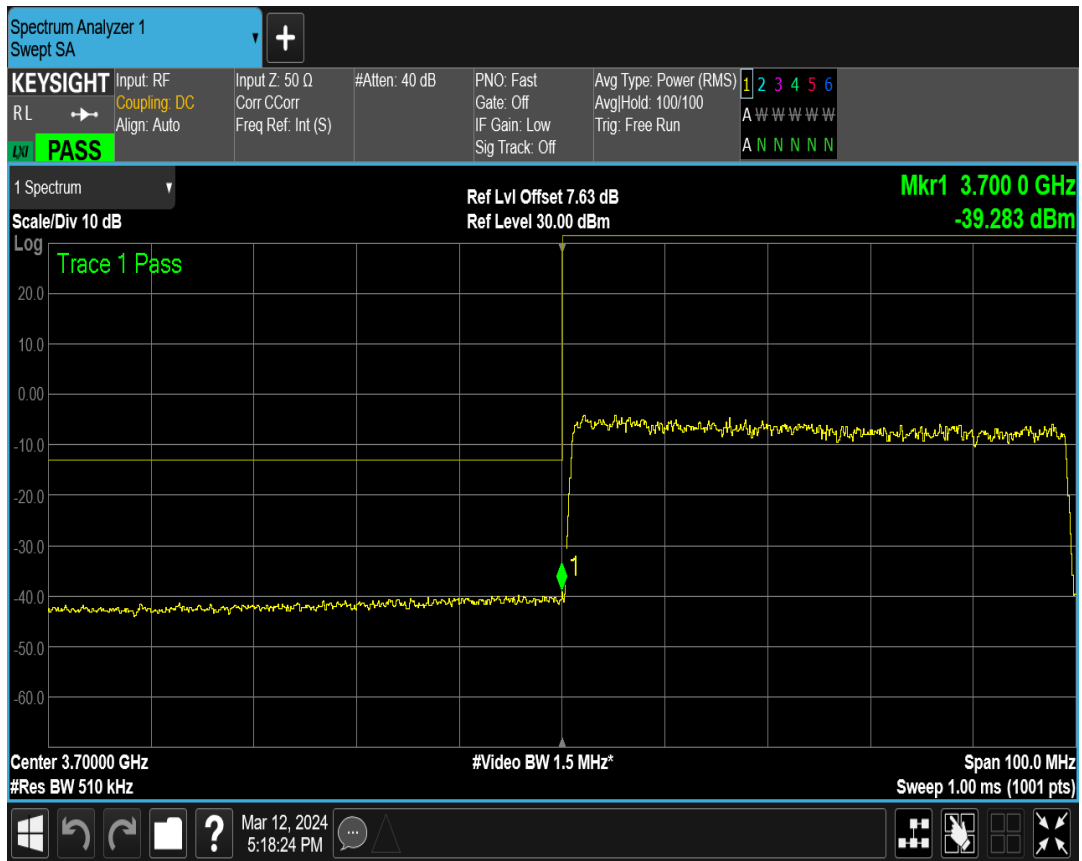
n77(3700-3980) SCS=30kHz CP\_QPSK BW=10MHz Channel=665000 RB=1@23



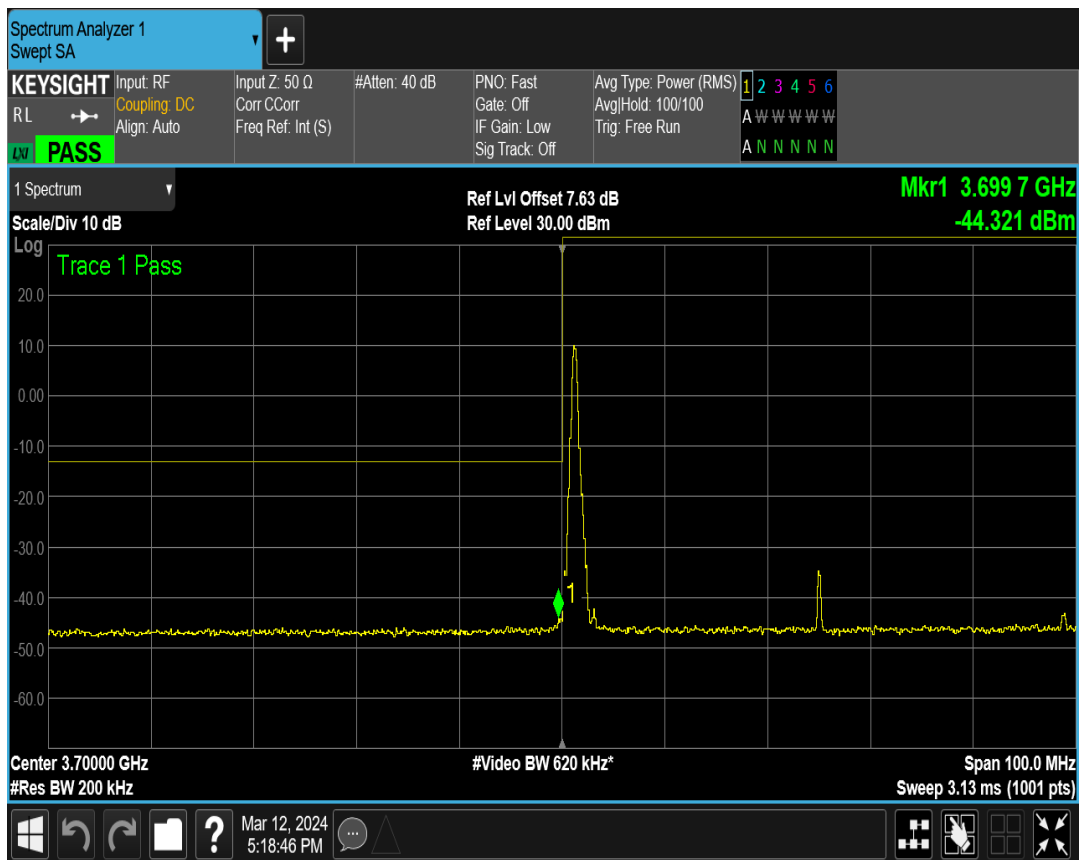
n77(3700-3980) SCS=30kHz CP\_QPSK BW=10MHz Channel=665000 RB=24@0



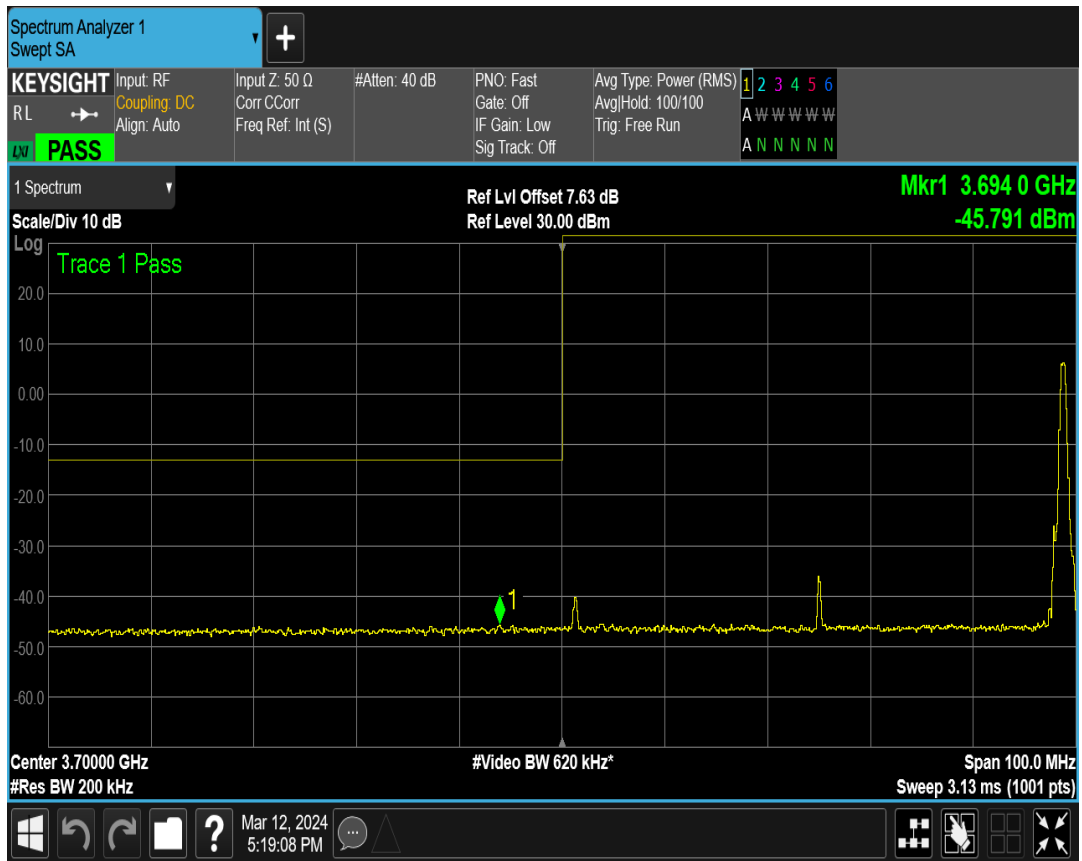
n77(3700-3980) SCS=30kHz CP\_QPSK BW=50MHz Channel=648334 RB=133@0



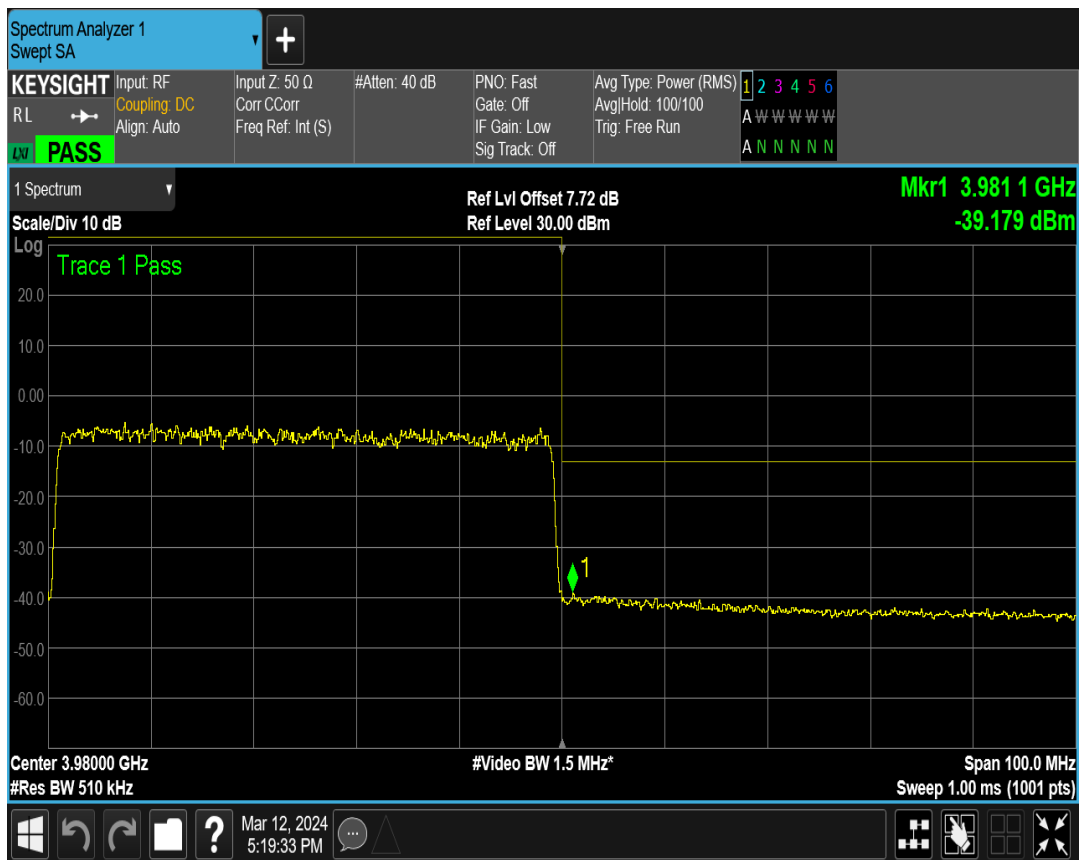
n77(3700-3980) SCS=30kHz CP\_QPSK BW=50MHz Channel=648334 RB=1@0



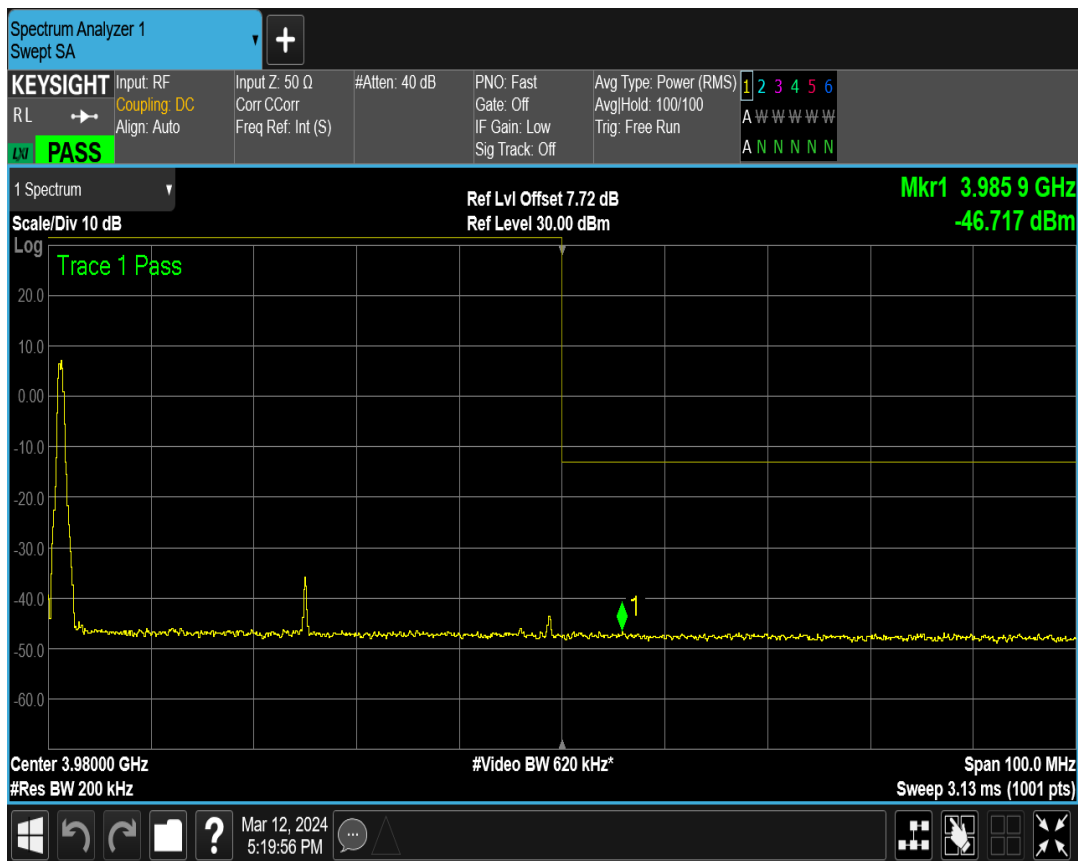
n77(3700-3980) SCS=30kHz CP\_QPSK BW=50MHz Channel=648334 RB=1@132



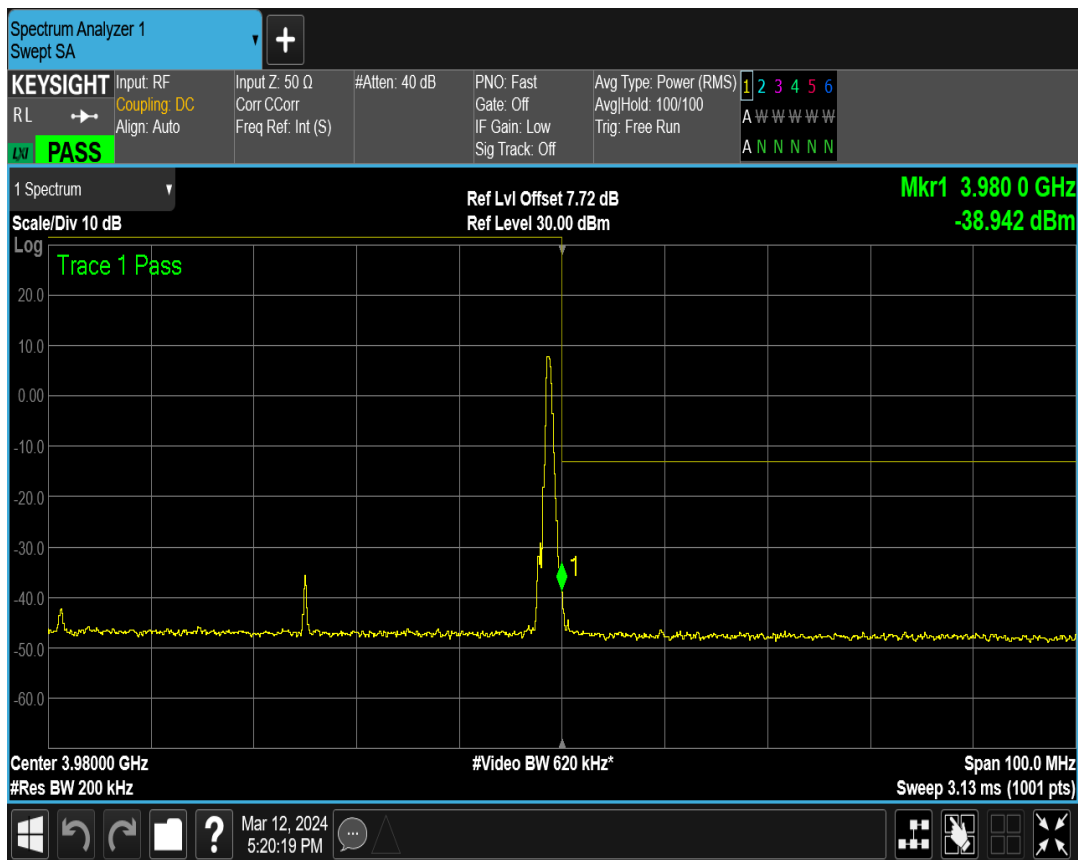
n77(3700-3980) SCS=30kHz CP\_QPSK BW=50MHz Channel=663666 RB=133@0



n77(3700-3980) SCS=30kHz CP\_QPSK BW=50MHz Channel=663666 RB=1@0



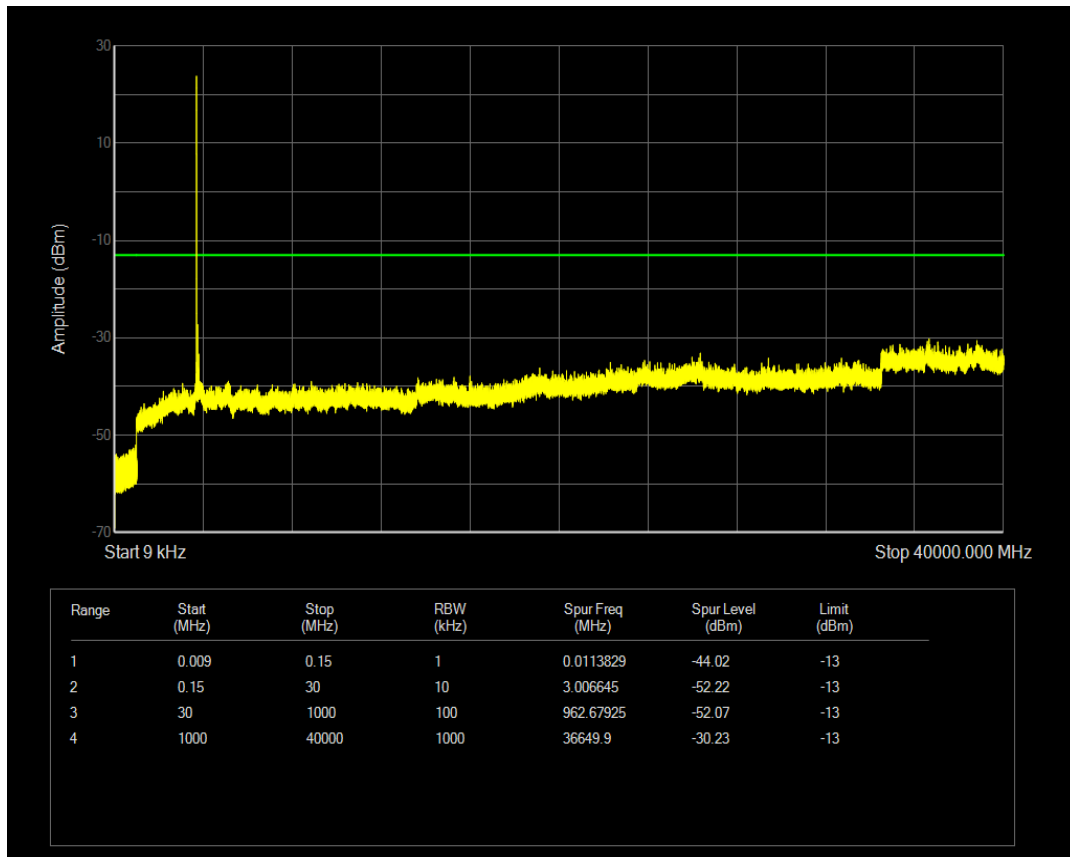
n77(3700-3980) SCS=30kHz CP\_QPSK BW=50MHz Channel=663666 RB=1@132



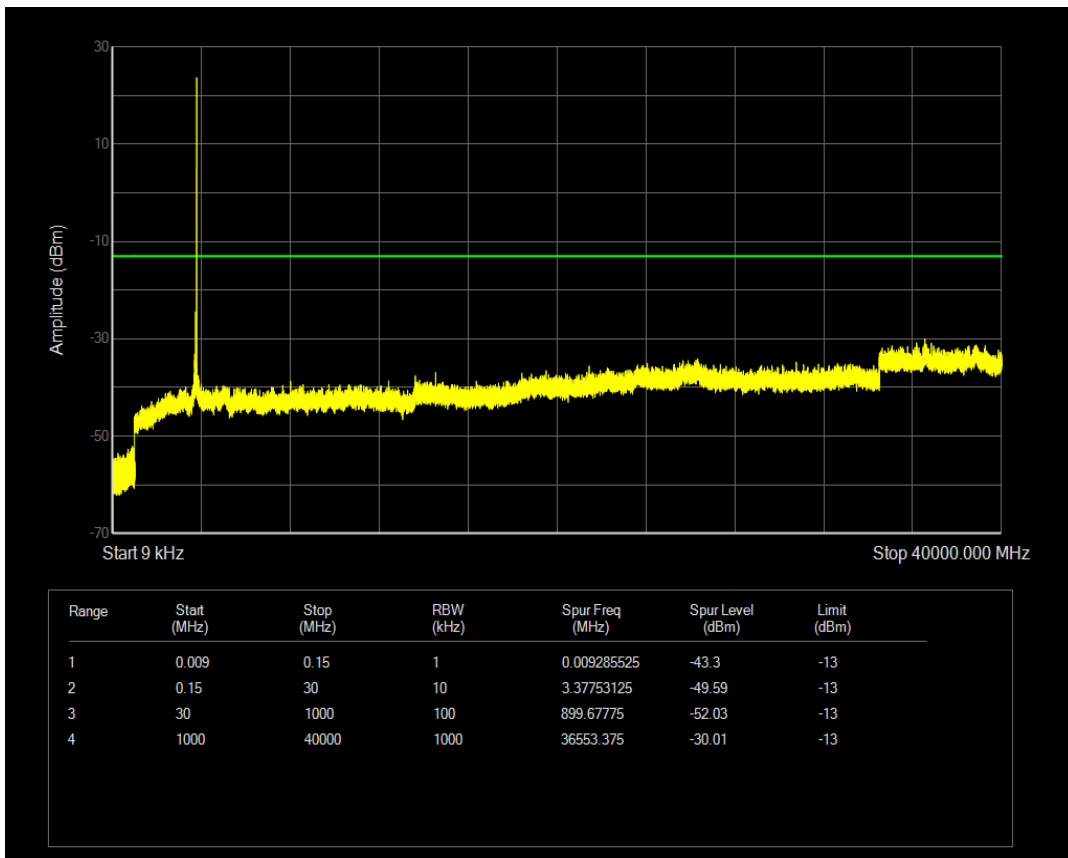
## 6 Out-of-band emissions for NR FR1

| Band           | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Spur Freq<br>(MHz) | Spur Level<br>(dBm) | Limit<br>(dBm) | Verdict |
|----------------|--------------|--------------------|---------------|------------------|------------|--------------------|---------------------|----------------|---------|
| n77(3700-3980) | 30           | 10                 | 647000        | 24@0             | CP_QPSK    | 36598.23           | -30.34              | -13            | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@0              | CP_QPSK    | 35656.38           | -30.32              | -13            | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@23             | CP_QPSK    | 38531.65           | -30.69              | -13            | PASS    |
| n77(3700-3980) | 30           | 10                 | 665000        | 24@0             | CP_QPSK    | 38497.53           | -30.76              | -13            | PASS    |
| n77(3700-3980) | 30           | 10                 | 665000        | 1@0              | CP_QPSK    | 36589.45           | -30.20              | -13            | PASS    |
| n77(3700-3980) | 30           | 10                 | 665000        | 1@23             | CP_QPSK    | 38868.03           | -30.71              | -13            | PASS    |
| n77(3700-3980) | 30           | 50                 | 648334        | 133@0            | CP_QPSK    | 38936.28           | -30.54              | -13            | PASS    |
| n77(3700-3980) | 30           | 50                 | 648334        | 1@0              | CP_QPSK    | 34540.00           | -30.93              | -13            | PASS    |
| n77(3700-3980) | 30           | 50                 | 648334        | 1@132            | CP_QPSK    | 38872.90           | -30.65              | -13            | PASS    |
| n77(3700-3980) | 30           | 50                 | 663666        | 133@0            | CP_QPSK    | 36649.90           | -30.26              | -13            | PASS    |
| n77(3700-3980) | 30           | 50                 | 663666        | 1@0              | CP_QPSK    | 38434.15           | -29.98              | -13            | PASS    |
| n77(3700-3980) | 30           | 50                 | 663666        | 1@132            | CP_QPSK    | 38826.10           | -30.19              | -13            | PASS    |
| n77(3700-3980) | 30           | 100                | 650000        | 273@0            | CP_QPSK    | 38863.15           | -30.30              | -13            | PASS    |
| n77(3700-3980) | 30           | 100                | 650000        | 1@0              | CP_QPSK    | 36649.90           | -30.23              | -13            | PASS    |
| n77(3700-3980) | 30           | 100                | 650000        | 1@272            | CP_QPSK    | 36553.38           | -30.01              | -13            | PASS    |
| n77(3700-3980) | 30           | 100                | 662000        | 273@0            | CP_QPSK    | 38872.90           | -30.12              | -13            | PASS    |
| n77(3700-3980) | 30           | 100                | 662000        | 1@0              | CP_QPSK    | 38855.35           | -30.46              | -13            | PASS    |
| n77(3700-3980) | 30           | 100                | 662000        | 1@272            | CP_QPSK    | 36712.30           | -30.93              | -13            | PASS    |

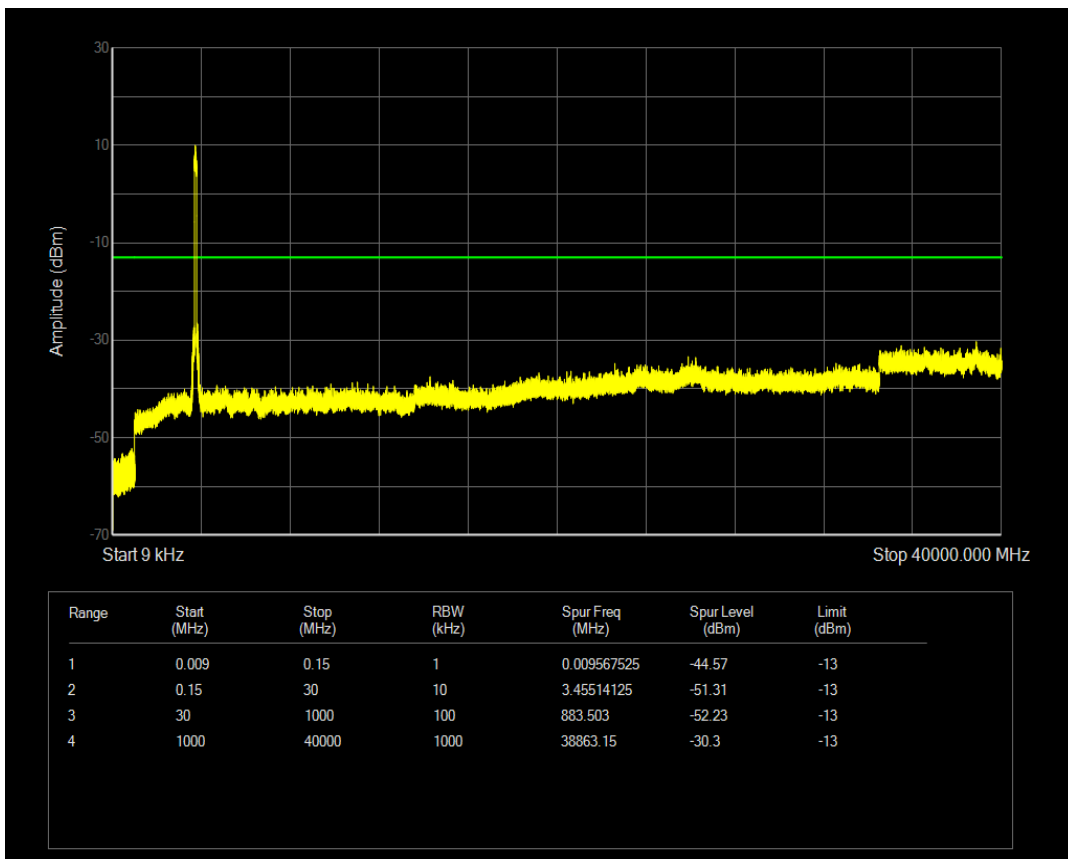
n77(3700-3980) SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=1@0



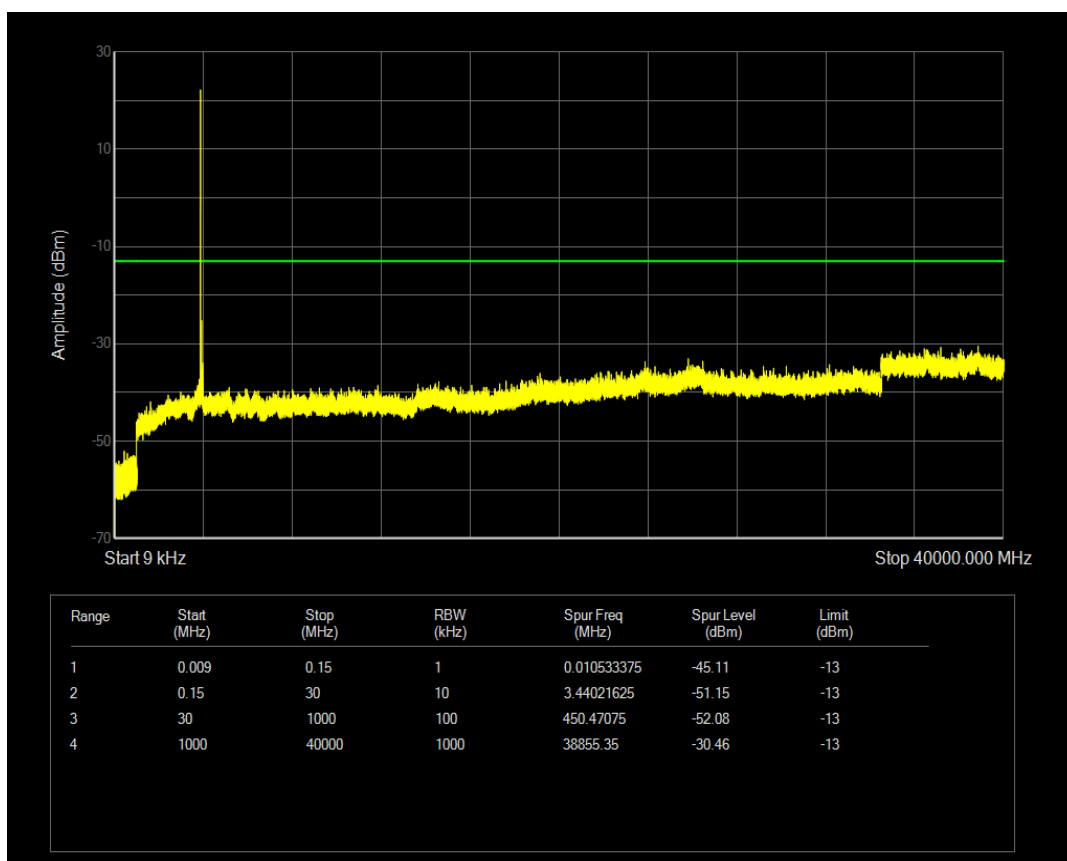
n77(3700-3980) SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=1@272



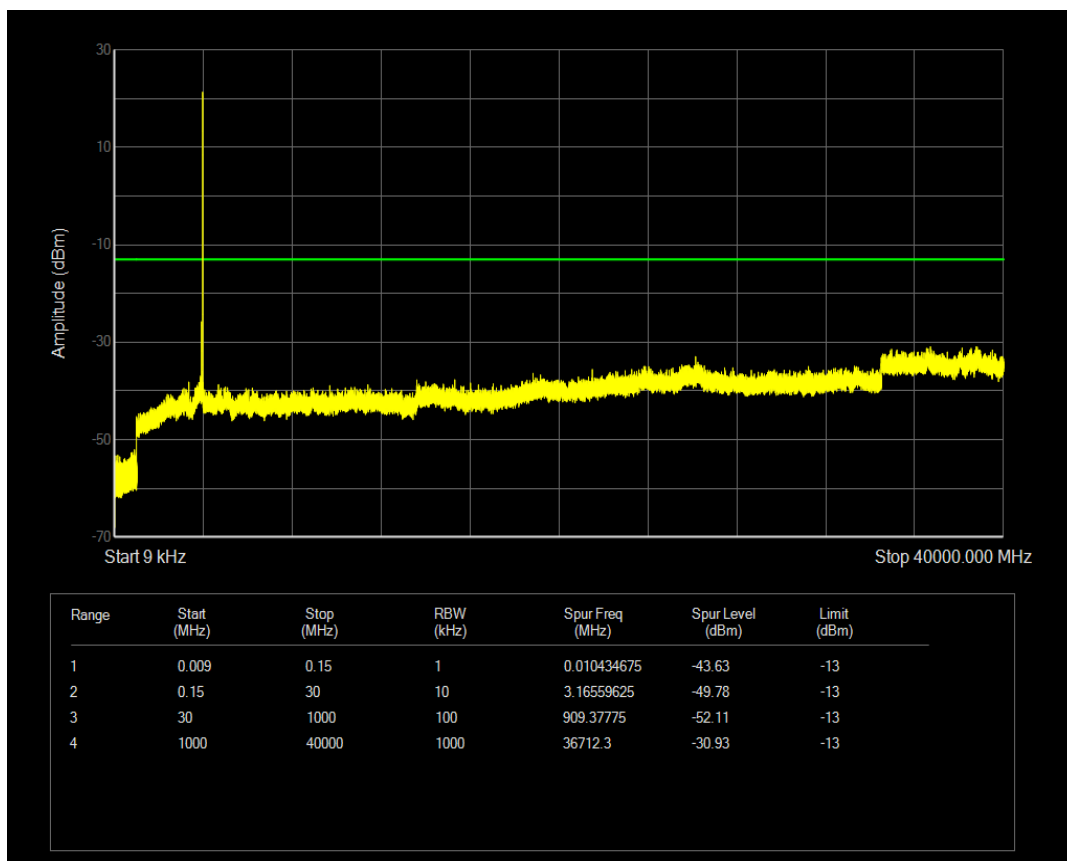
n77(3700-3980) SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=273@0



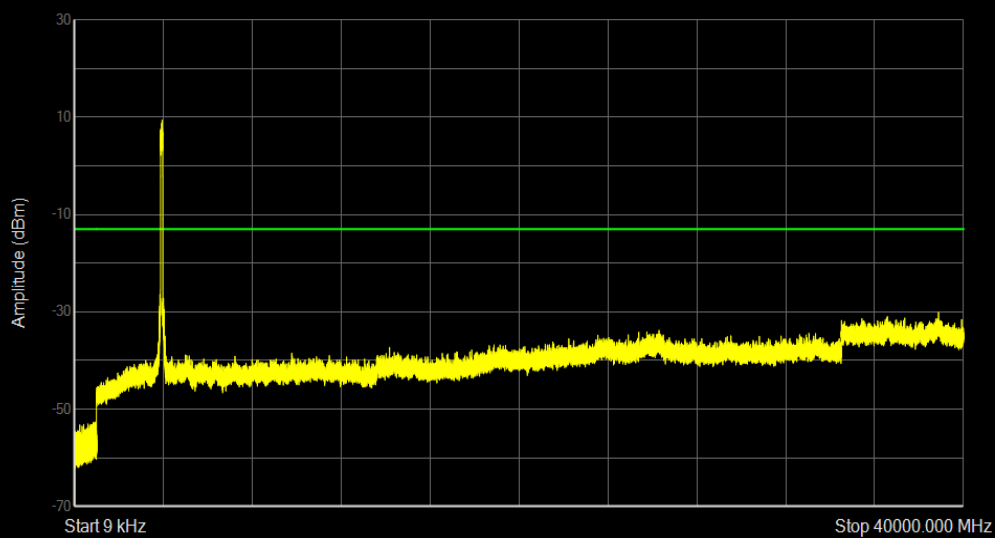
n77(3700-3980) SCS=30kHz CP\_QPSK BW=100MHz Channel=662000 RB=1@0



n77(3700-3980) SCS=30kHz CP\_QPSK BW=100MHz Channel=662000 RB=1@272

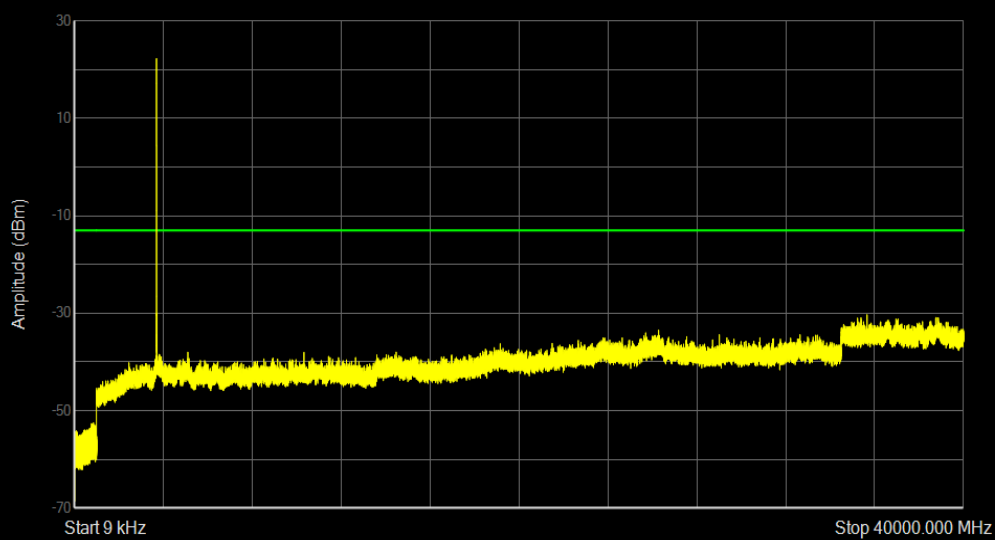


n77(3700-3980) SCS=30kHz CP\_QPSK BW=100MHz Channel=662000 RB=273@0



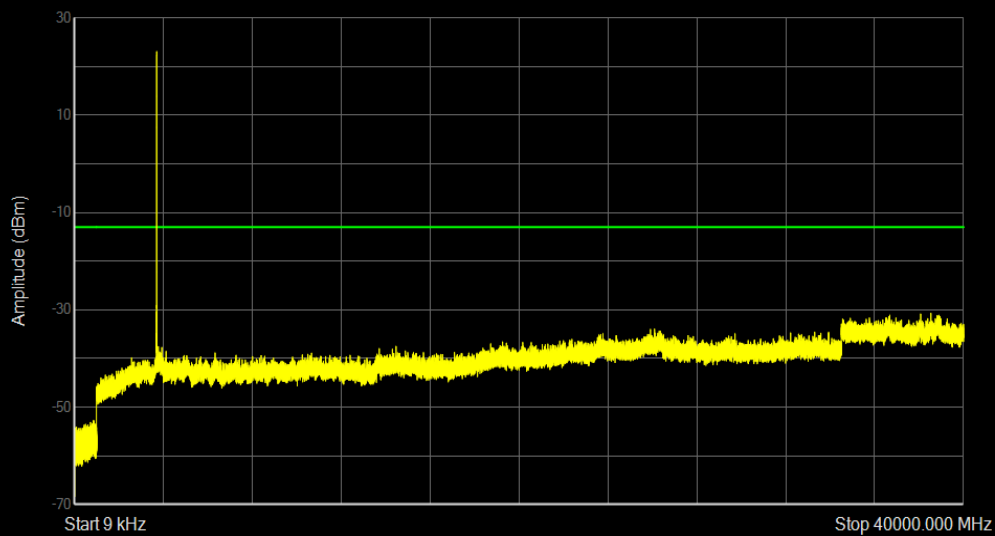
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.01428045      | -45.31           | -13         |
| 2     | 0.15        | 30         | 10        | 3.36559125      | -50.11           | -13         |
| 3     | 30          | 1000       | 100       | 971.45775       | -52.61           | -13         |
| 4     | 1000        | 40000      | 1000      | 38872.9         | -30.12           | -13         |

n77(3700-3980) SCS=30kHz CP\_QPSK BW=10MHz Channel=647000 RB=1@0



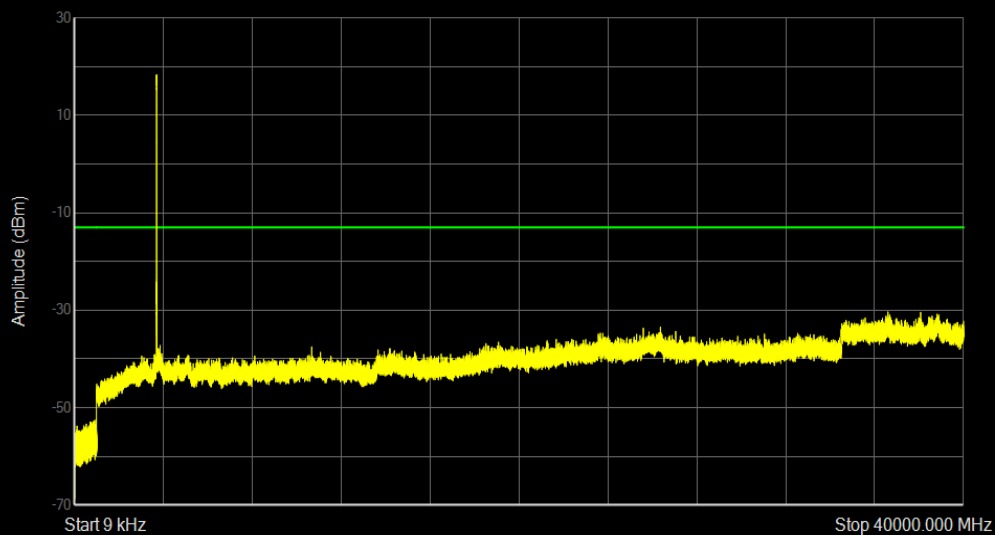
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.012754125     | -44.4            | -13         |
| 2     | 0.15        | 30         | 10        | 3.2544          | -51.17           | -13         |
| 3     | 30          | 1000       | 100       | 865.09725       | -52.49           | -13         |
| 4     | 1000        | 40000      | 1000      | 35656.375       | -30.32           | -13         |

n77(3700-3980) SCS=30kHz CP\_QPSK BW=10MHz Channel=647000 RB=1@23



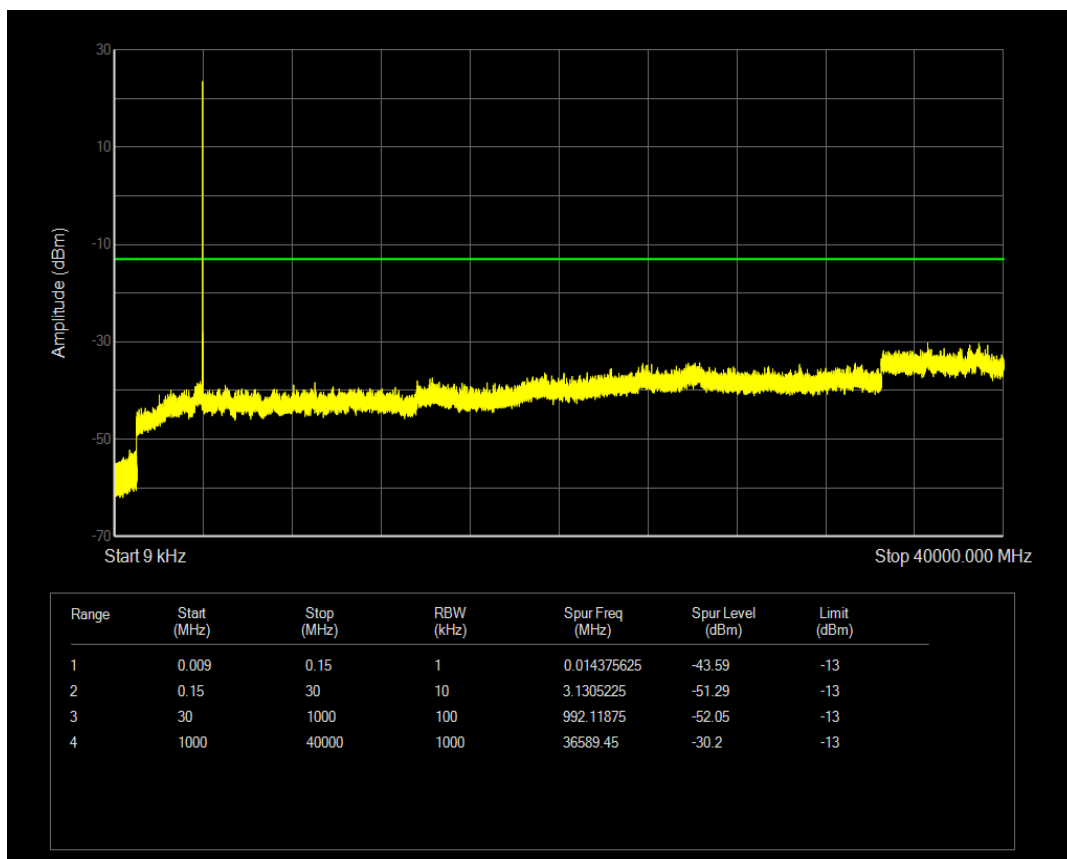
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.016716225     | -45.13           | -13         |
| 2     | 0.15        | 30         | 10        | 3.19693875      | -52.34           | -13         |
| 3     | 30          | 1000       | 100       | 870.86875       | -52.72           | -13         |
| 4     | 1000        | 40000      | 1000      | 38531.65        | -30.69           | -13         |

n77(3700-3980) SCS=30kHz CP\_QPSK BW=10MHz Channel=647000 RB=24@0

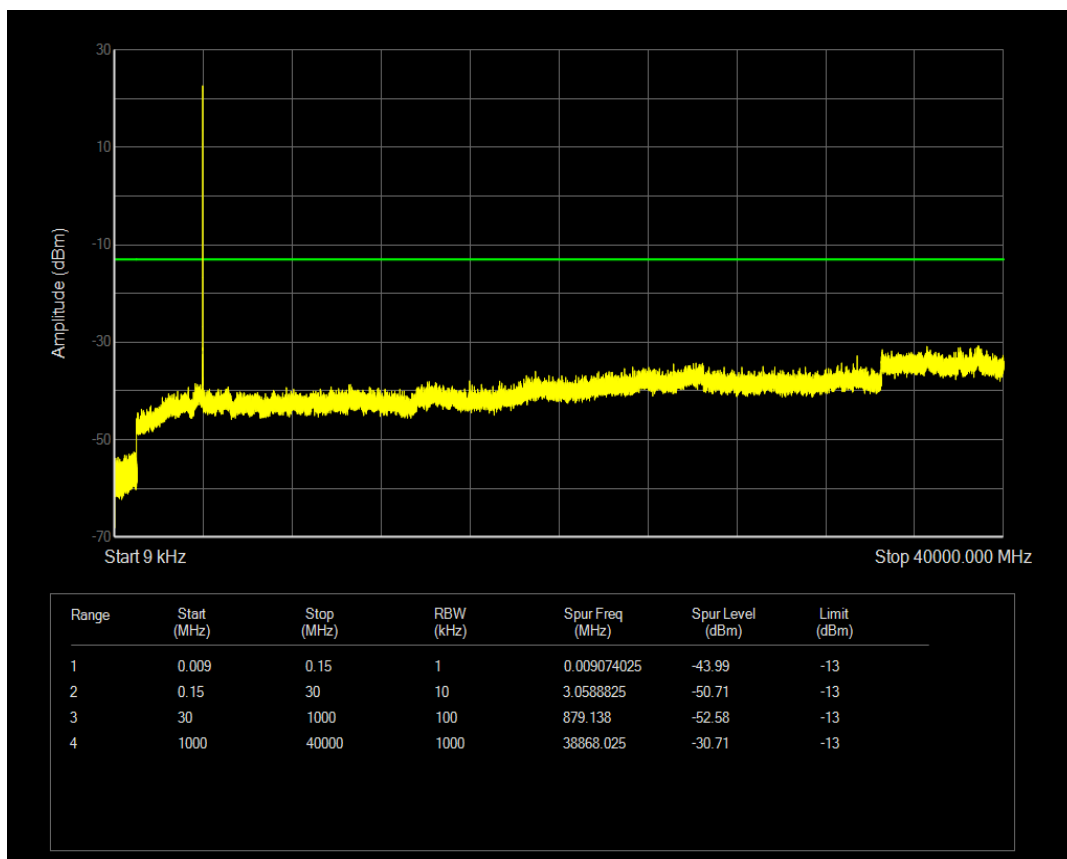


| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.00966975      | -44.31           | -13         |
| 2     | 0.15        | 30         | 10        | 3.12903         | -50.87           | -13         |
| 3     | 30          | 1000       | 100       | 981.182         | -52.42           | -13         |
| 4     | 1000        | 40000      | 1000      | 36598.225       | -30.34           | -13         |

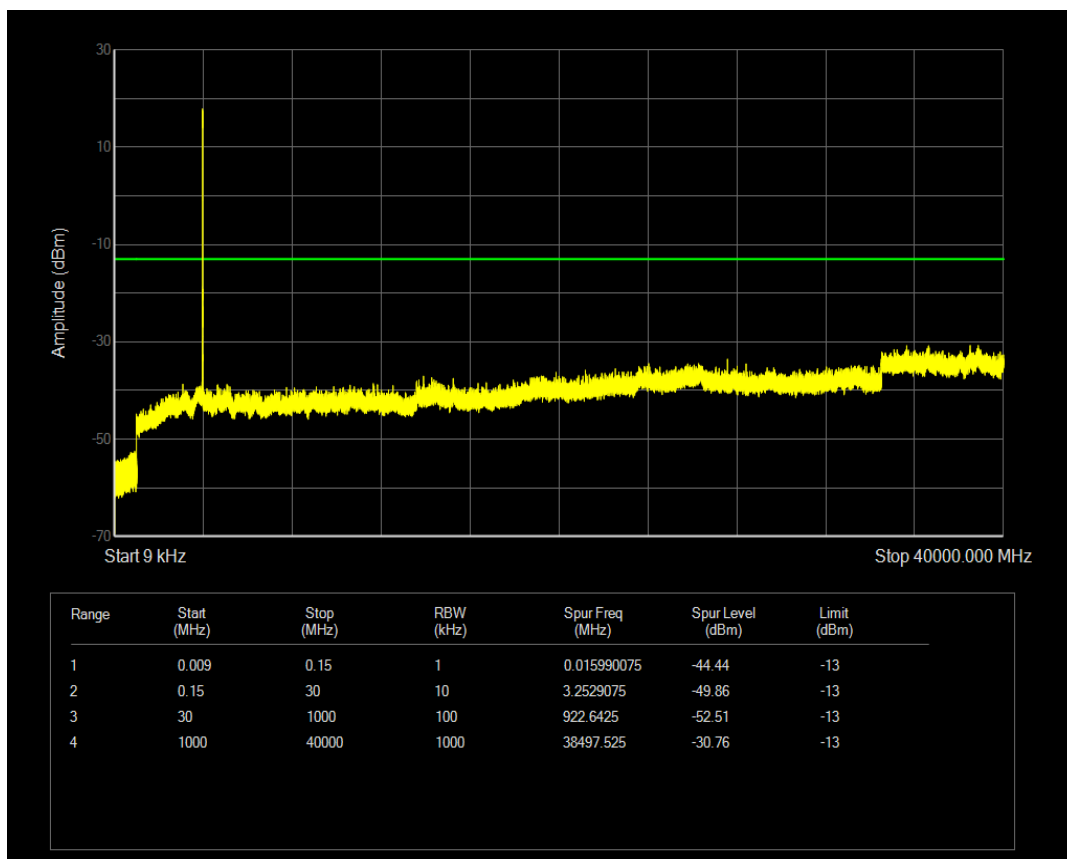
n77(3700-3980) SCS=30kHz CP\_QPSK BW=10MHz Channel=665000 RB=1@0



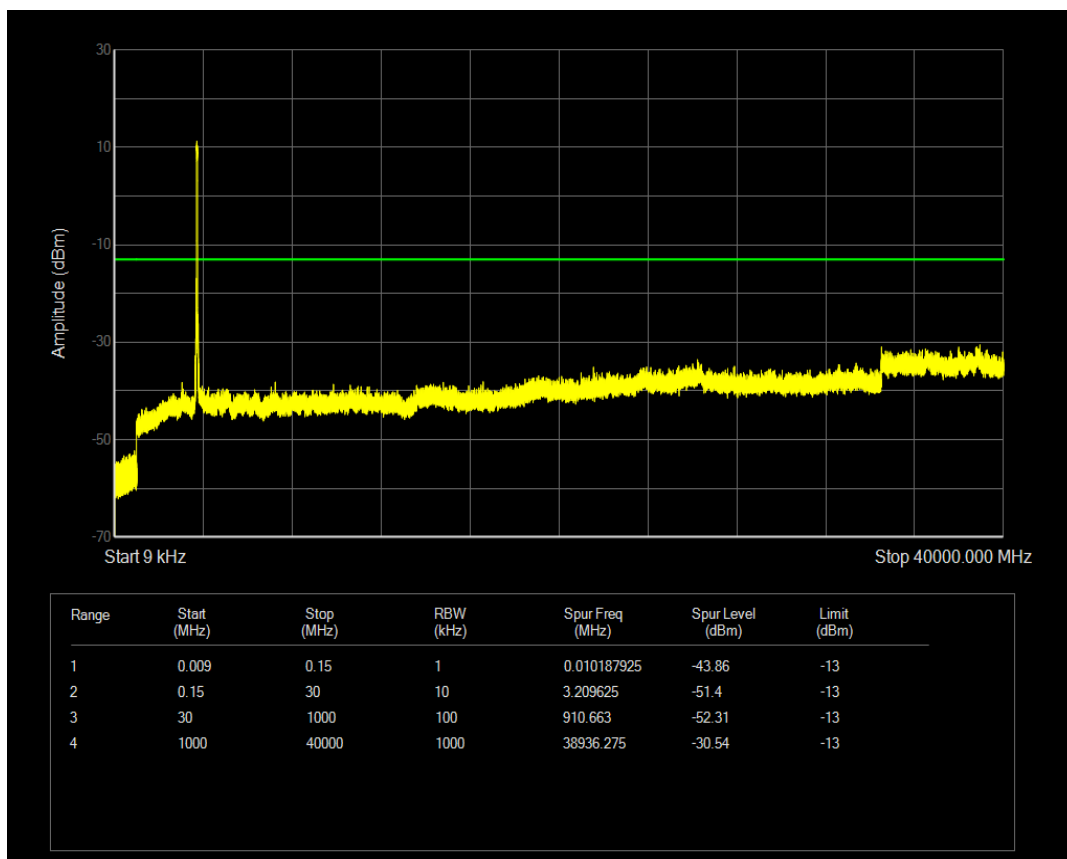
n77(3700-3980) SCS=30kHz CP\_QPSK BW=10MHz Channel=665000 RB=1@23



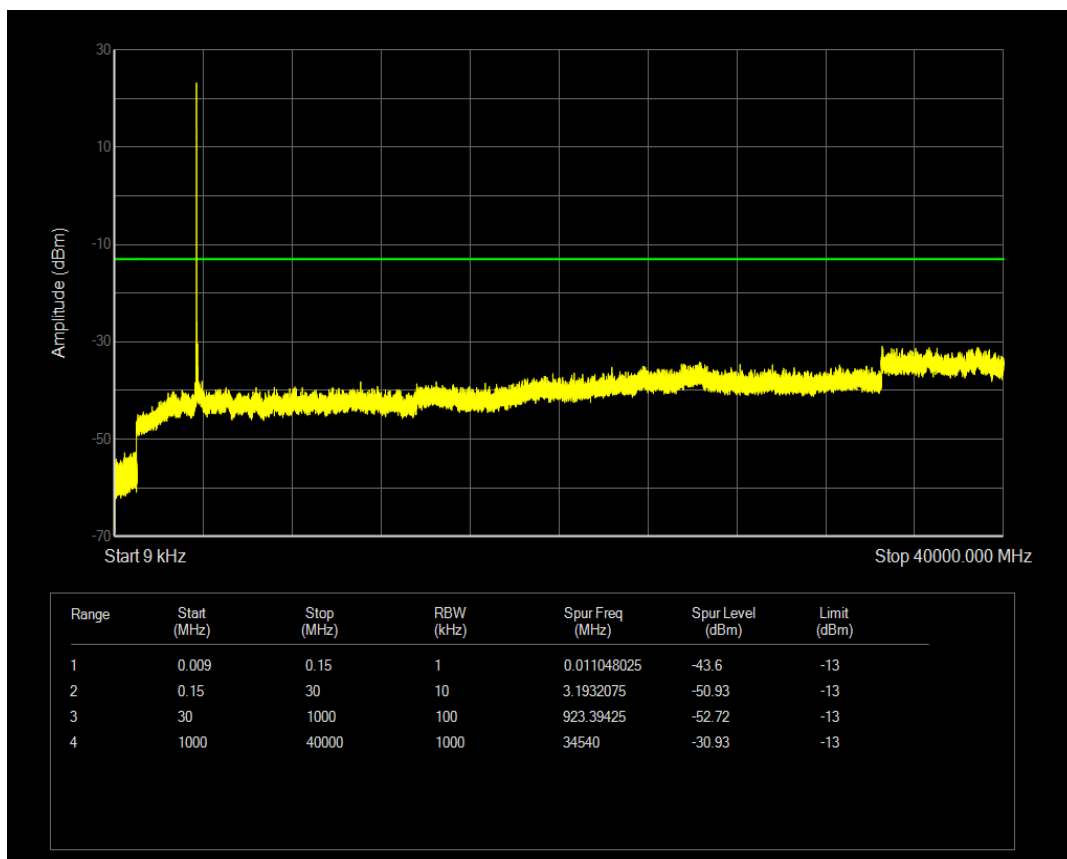
n77(3700-3980) SCS=30kHz CP\_QPSK BW=10MHz Channel=665000 RB=24@0



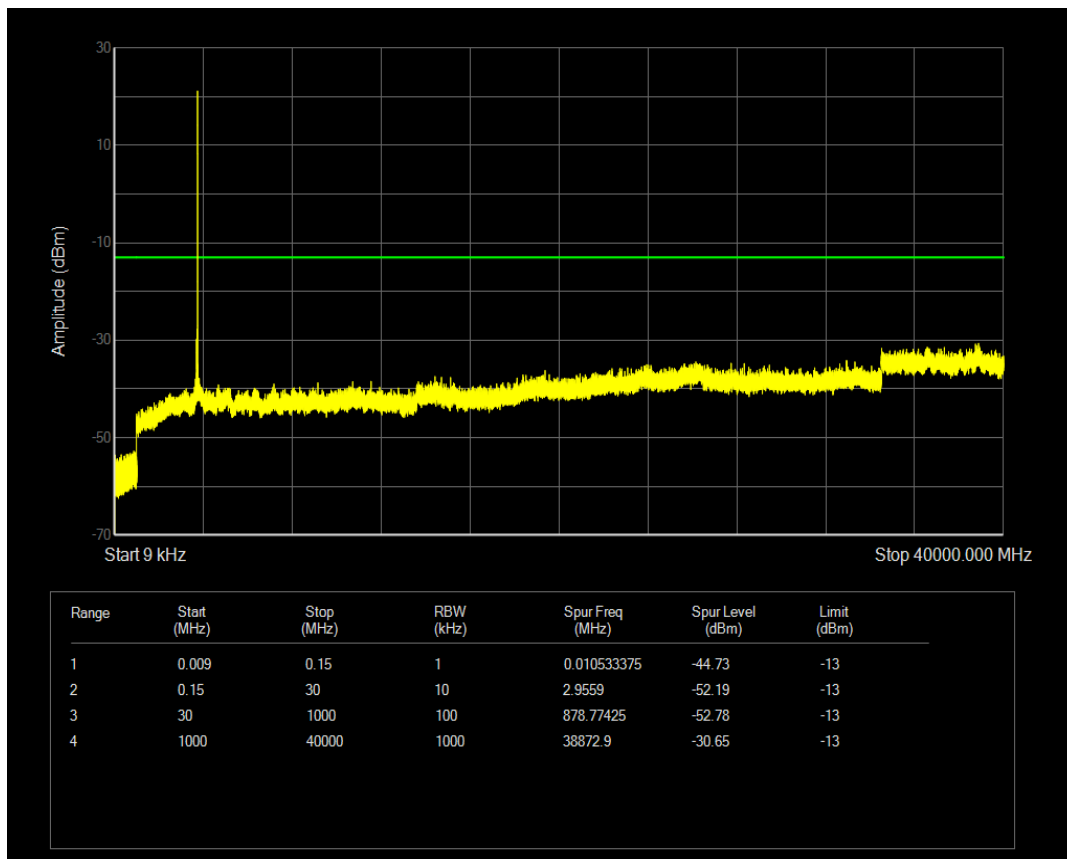
n77(3700-3980) SCS=30kHz CP\_QPSK BW=50MHz Channel=648334 RB=133@0



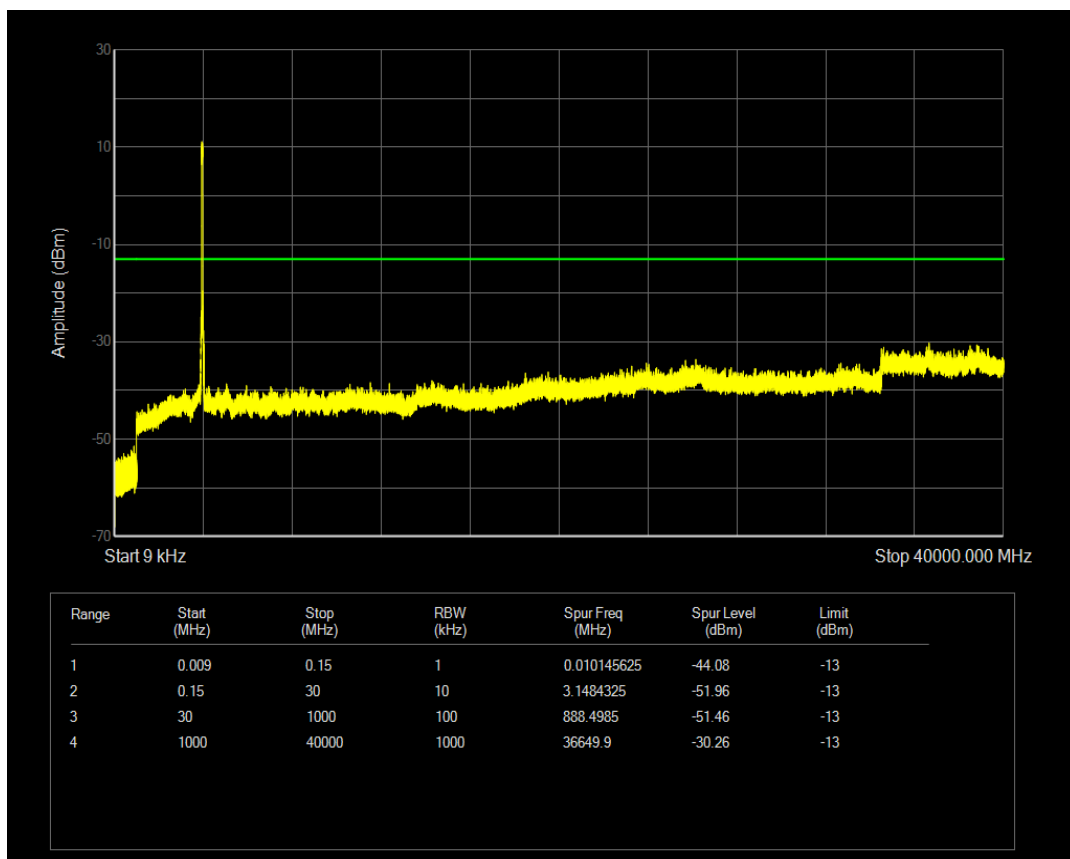
n77(3700-3980) SCS=30kHz CP\_QPSK BW=50MHz Channel=648334 RB=1@0



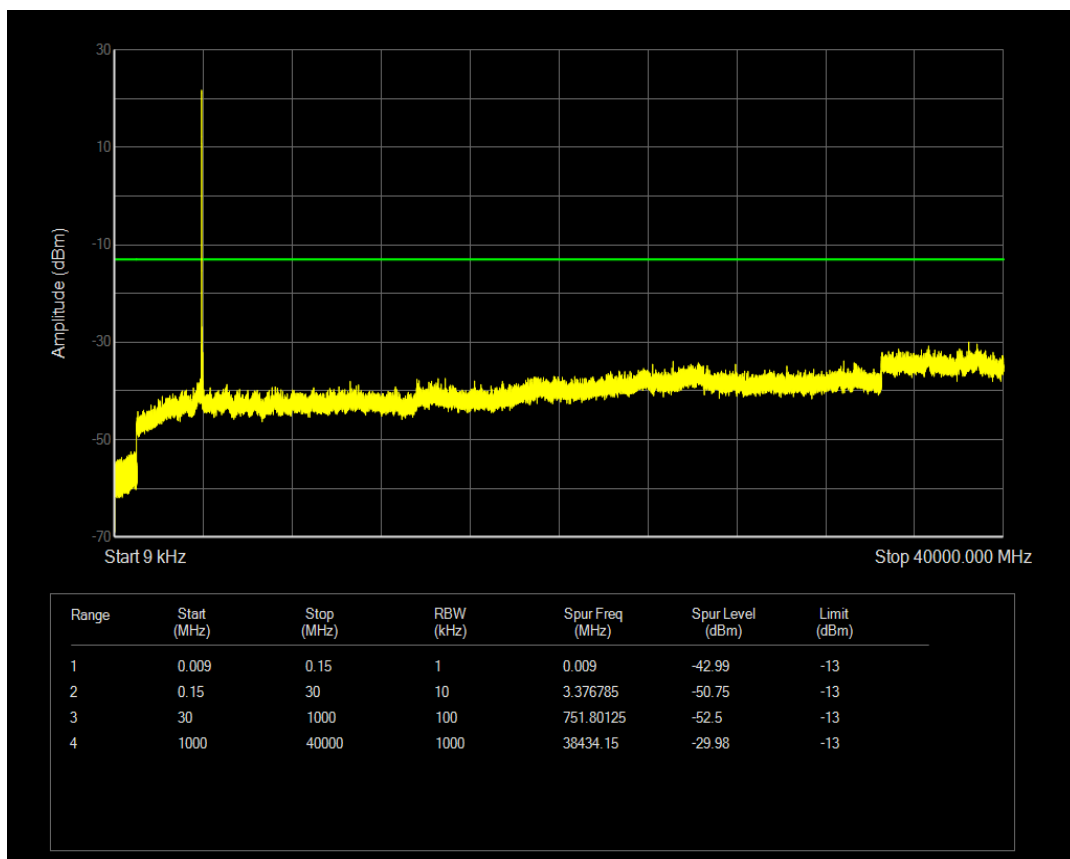
n77(3700-3980) SCS=30kHz CP\_QPSK BW=50MHz Channel=648334 RB=1@132



n77(3700-3980) SCS=30kHz CP\_QPSK BW=50MHz Channel=663666 RB=133@0



n77(3700-3980) SCS=30kHz CP\_QPSK BW=50MHz Channel=663666 RB=1@0



n77(3700-3980) SCS=30kHz CP\_QPSK BW=50MHz Channel=663666 RB=1@132

