



n78(3700-3800) SCS=30kHz DFT\_QAM256 BW=40MHz Channel=650000 RB=100@0



n78(3700-3800) SCS=30kHz DFT\_BPSK BW=50MHz Channel=650000 RB=128@0



n78(3700-3800) SCS=30kHz DFT\_QPSK BW=50MHz Channel=650000 RB=128@0



n78(3700-3800) SCS=30kHz DFT\_QAM16 BW=50MHz Channel=650000 RB=128@0



n78(3700-3800) SCS=30kHz DFT\_QAM64 BW=50MHz Channel=650000 RB=128@0



n78(3700-3800) SCS=30kHz DFT\_QAM256 BW=50MHz Channel=650000 RB=128@0



n78(3700-3800) SCS=30kHz DFT\_BPSK BW=60MHz Channel=650000 RB=162@0



n78(3700-3800) SCS=30kHz DFT\_QPSK BW=60MHz Channel=650000 RB=162@0



n78(3700-3800) SCS=30kHz DFT\_QAM16 BW=60MHz Channel=650000 RB=162@0



n78(3700-3800) SCS=30kHz DFT\_QAM64 BW=60MHz Channel=650000 RB=162@0



n78(3700-3800) SCS=30kHz DFT\_QAM256 BW=60MHz Channel=650000 RB=162@0



n78(3700-3800) SCS=30kHz DFT\_BPSK BW=70MHz Channel=650000 RB=



n78(3700-3800) SCS=30kHz DFT\_QPSK BW=70MHz Channel=650000 RB=



n78(3700-3800) SCS=30kHz DFT\_QAM16 BW=70MHz Channel=650000 RB=



n78(3700-3800) SCS=30kHz DFT\_QAM64 BW=70MHz Channel=650000 RB=



n78(3700-3800) SCS=30kHz DFT\_QAM256 BW=70MHz Channel=650000 RB=



n78(3700-3800) SCS=30kHz DFT\_BPSK BW=80MHz Channel=650000 RB=216@0



n78(3700-3800) SCS=30kHz DFT\_QPSK BW=80MHz Channel=650000 RB=216@0



*n78(3700-3800) SCS=30kHz DFT\_QAM16 BW=80MHz Channel=650000 RB=216@0*



*n78(3700-3800) SCS=30kHz DFT\_QAM64 BW=80MHz Channel=650000 RB=216@0*



n78(3700-3800) SCS=30kHz DFT\_QAM256 BW=80MHz Channel=650000 RB=216@0



n78(3700-3800) SCS=30kHz DFT\_BPSK BW=90MHz Channel=650000 RB=240@0



*n78(3700-3800) SCS=30kHz DFT\_QPSK BW=90MHz Channel=650000 RB=240@0*



*n78(3700-3800) SCS=30kHz DFT\_QAM16 BW=90MHz Channel=650000 RB=240@0*



n78(3700-3800) SCS=30kHz DFT\_QAM64 BW=90MHz Channel=650000 RB=240@0



n78(3700-3800) SCS=30kHz DFT\_QAM256 BW=90MHz Channel=650000 RB=240@0



n78(3700-3800) SCS=30kHz DFT\_BPSK BW=100MHz Channel=650000 RB=270@0



n78(3700-3800) SCS=30kHz DFT\_QPSK BW=100MHz Channel=650000 RB=270@0



n78(3700-3800) SCS=30kHz DFT\_QAM16 BW=100MHz Channel=650000 RB=270@0



n78(3700-3800) SCS=30kHz DFT\_QAM64 BW=100MHz Channel=650000 RB=270@0



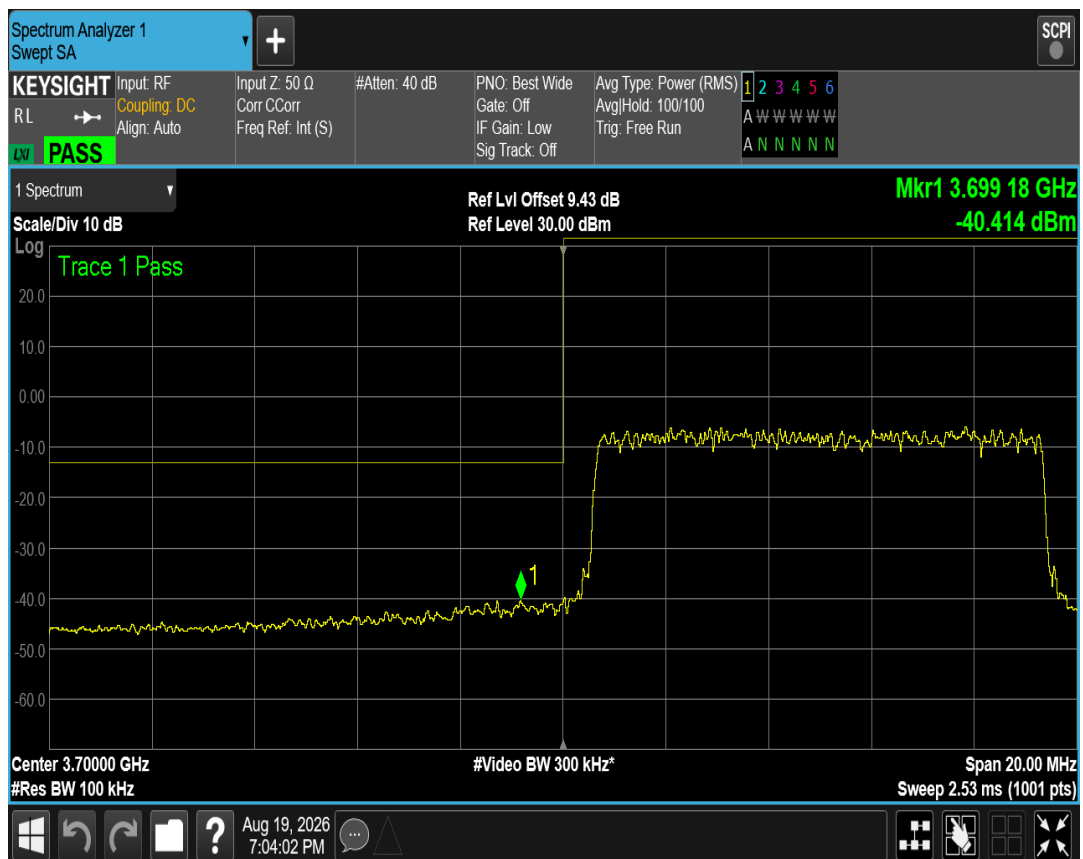
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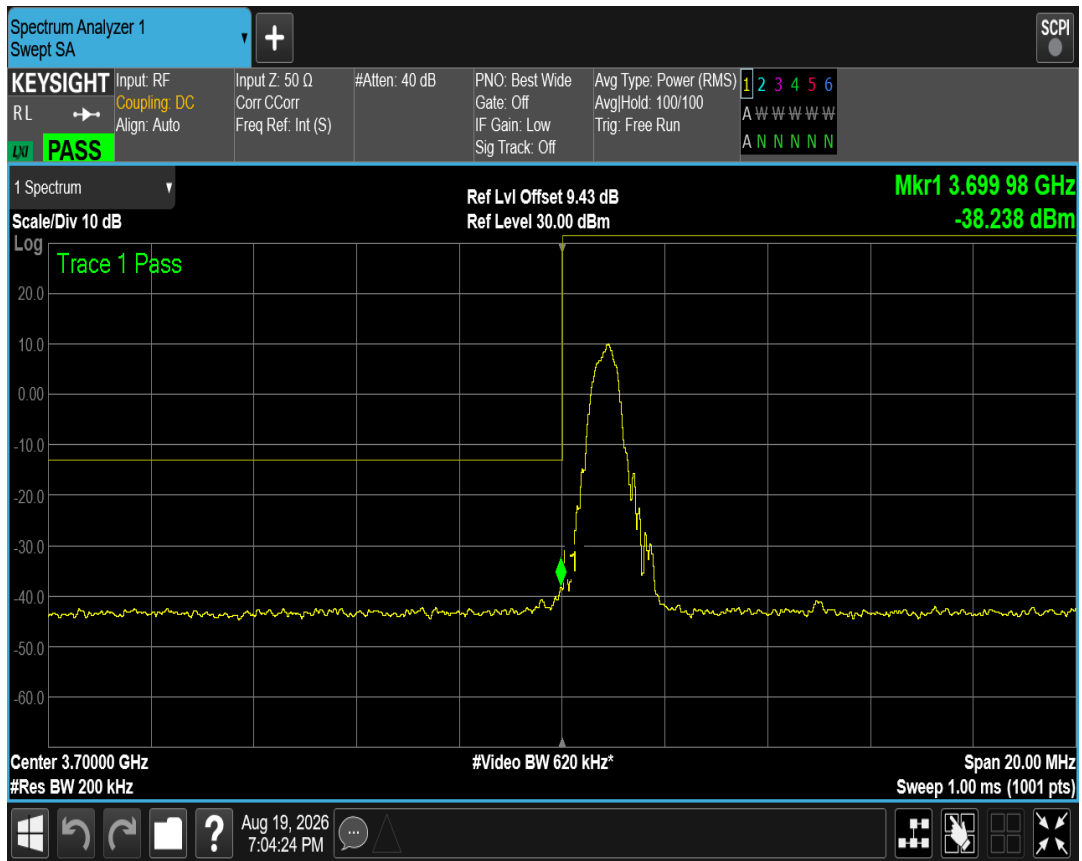
## 5 Band edge for NR FR1

| Band           | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Spur Freq<br>(MHz) | Spur<br>Level<br>(dBm) | Limit<br>(dBm) | Verdict |
|----------------|--------------|--------------------|---------------|------------------|------------|--------------------|------------------------|----------------|---------|
| n78(3700-3800) | 30           | 10                 | 647000        | 24@0             | CP_QPSK    | 3699.18            | -40.41                 | -13            | PASS    |
| n78(3700-3800) | 30           | 10                 | 647000        | 1@0              | CP_QPSK    | 3699.98            | -38.23                 | -13            | PASS    |
| n78(3700-3800) | 30           | 10                 | 647000        | 1@23             | CP_QPSK    | 3695.40            | -42.41                 | -13            | PASS    |
| n78(3700-3800) | 30           | 10                 | 653000        | 24@0             | CP_QPSK    | 3800.04            | -42.36                 | -13            | PASS    |
| n78(3700-3800) | 30           | 10                 | 653000        | 1@0              | CP_QPSK    | 3802.38            | -41.62                 | -13            | PASS    |
| n78(3700-3800) | 30           | 10                 | 653000        | 1@23             | CP_QPSK    | 3800.00            | -33.90                 | -13            | PASS    |
| n78(3700-3800) | 30           | 50                 | 648334        | 133@0            | CP_QPSK    | 3692.80            | -37.05                 | -13            | PASS    |
| n78(3700-3800) | 30           | 50                 | 648334        | 1@0              | CP_QPSK    | 3700.00            | -37.75                 | -13            | PASS    |
| n78(3700-3800) | 30           | 50                 | 648334        | 1@132            | CP_QPSK    | 3665.00            | -42.57                 | -13            | PASS    |
| n78(3700-3800) | 30           | 50                 | 651666        | 133@0            | CP_QPSK    | 3804.90            | -37.04                 | -13            | PASS    |
| n78(3700-3800) | 30           | 50                 | 651666        | 1@0              | CP_QPSK    | 3823.00            | -41.82                 | -13            | PASS    |
| n78(3700-3800) | 30           | 50                 | 651666        | 1@132            | CP_QPSK    | 3800.00            | -36.88                 | -13            | PASS    |
| n78(3700-3800) | 30           | 100                | 650000        | 273@0            | CP_QPSK    | 3700.00            | -23.09                 | -13            | PASS    |
| n78(3700-3800) | 30           | 100                | 650000        | 1@0              | CP_QPSK    | 3700.00            | -33.80                 | -13            | PASS    |
| n78(3700-3800) | 30           | 100                | 650000        | 1@272            | CP_QPSK    | 3685.80            | -42.79                 | -13            | PASS    |

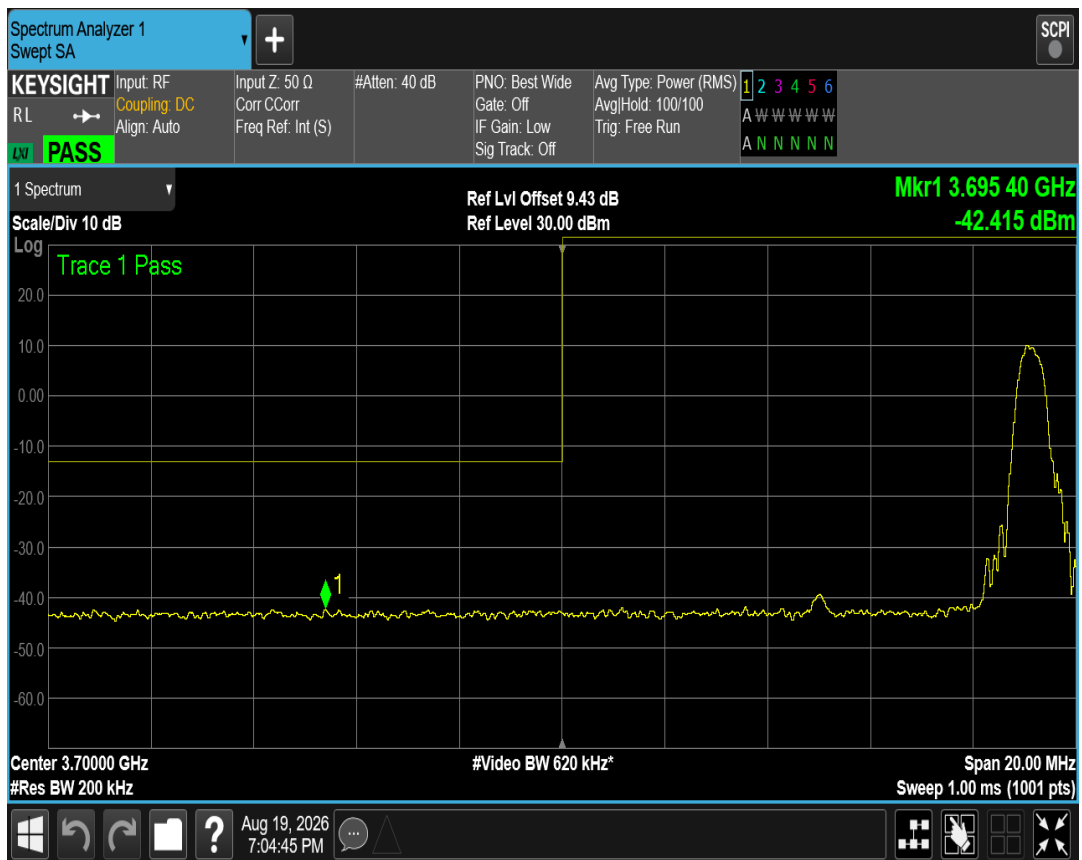
n78(3700-3800) SCS=30kHz CP\_QPSK BW=10MHz Channel=647000 RB=24@0



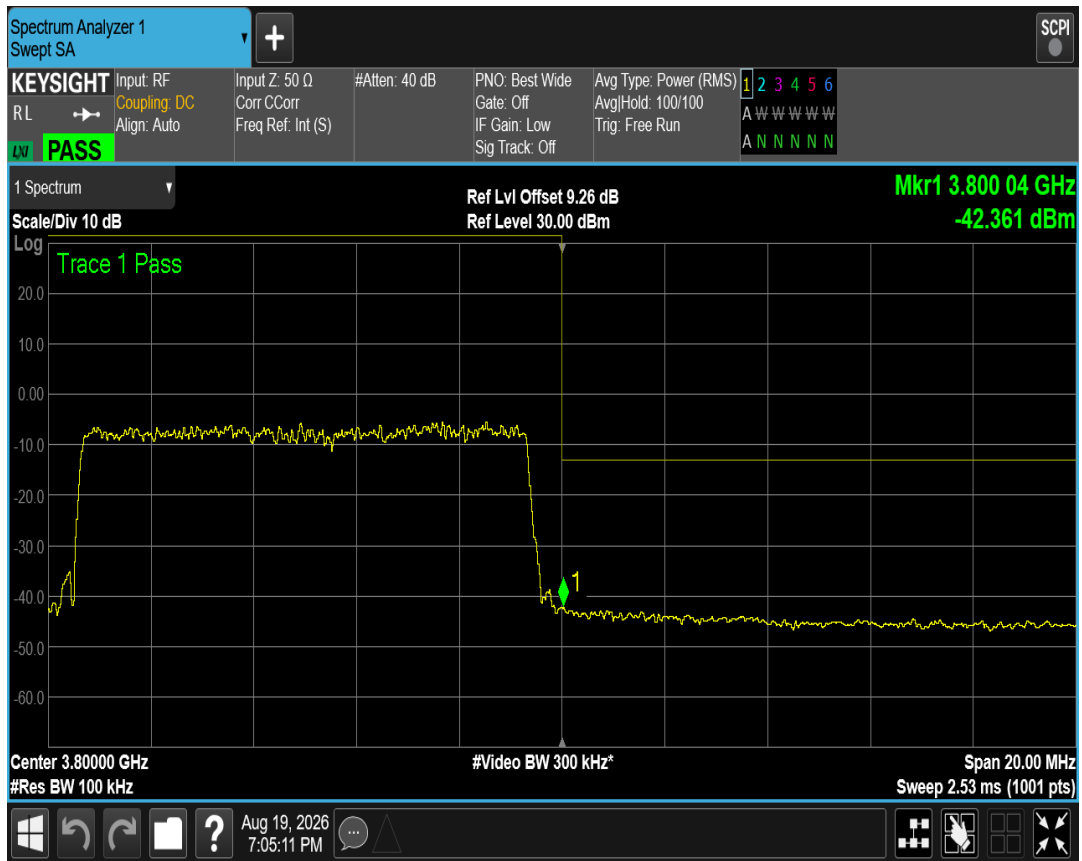
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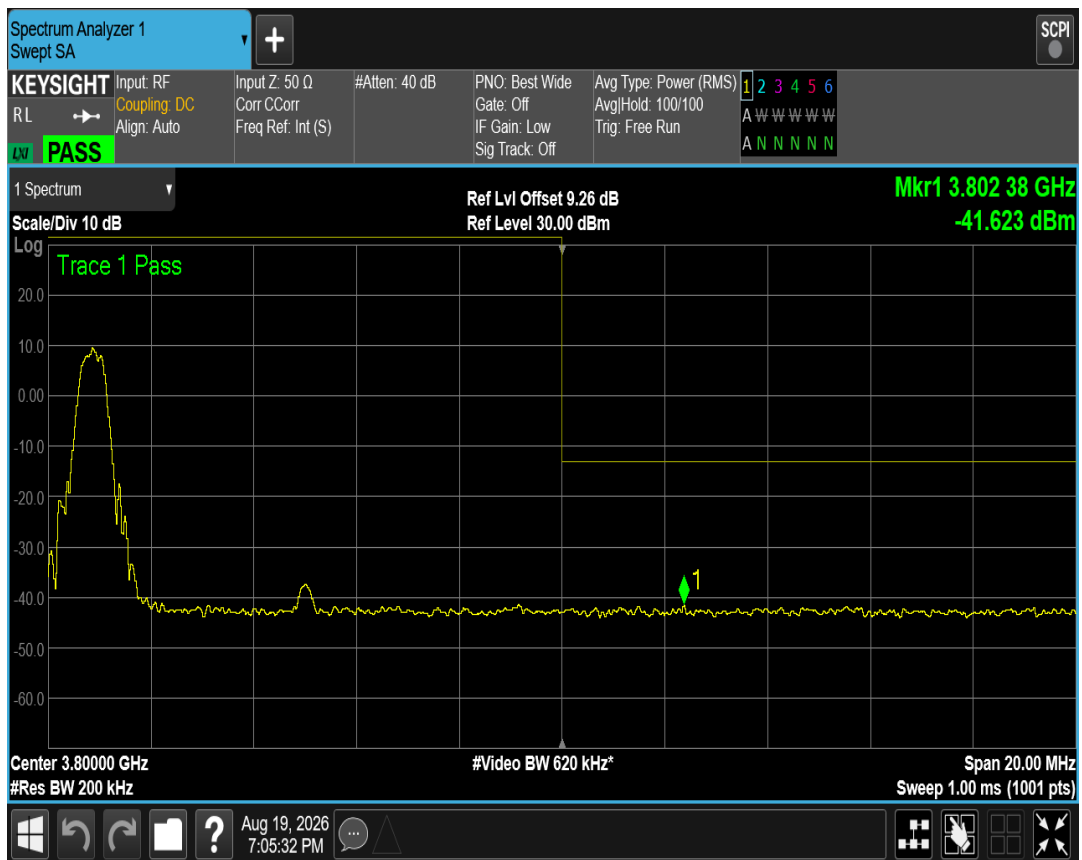
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*n78(3700-3800) SCS=30kHz CP\_QPSK BW=10MHz Channel=653000 RB=24@0*



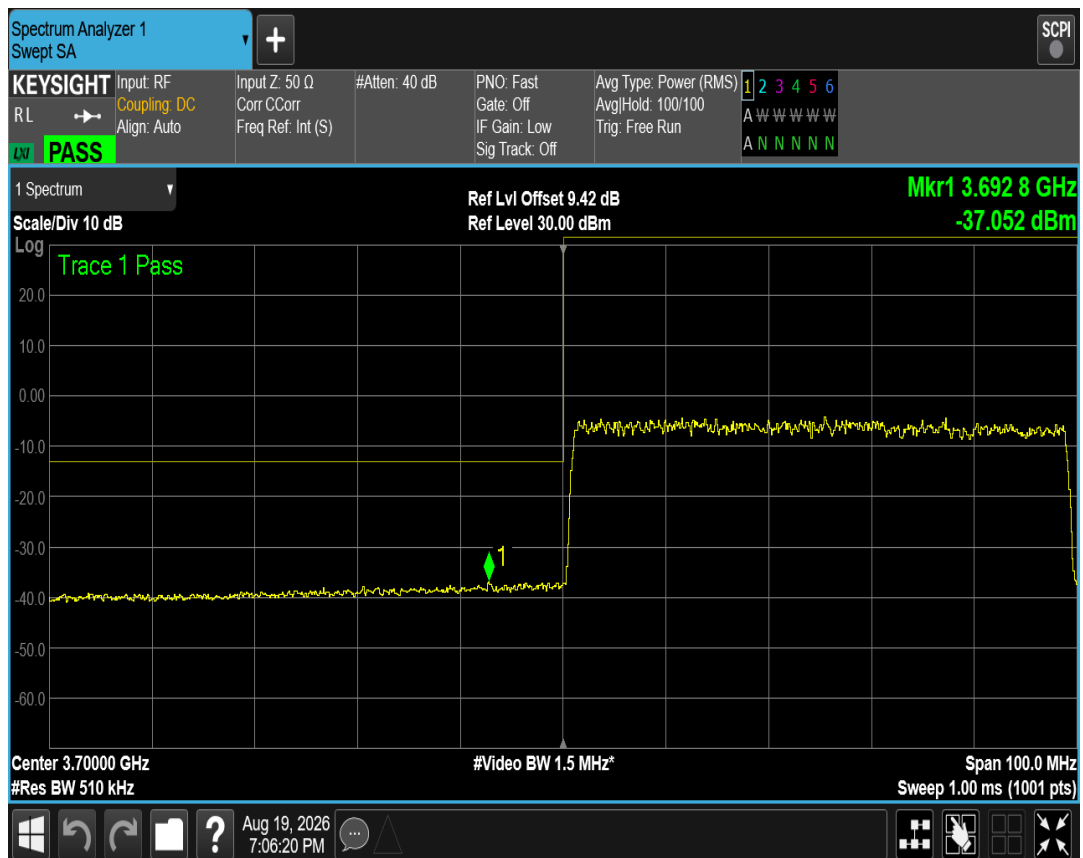
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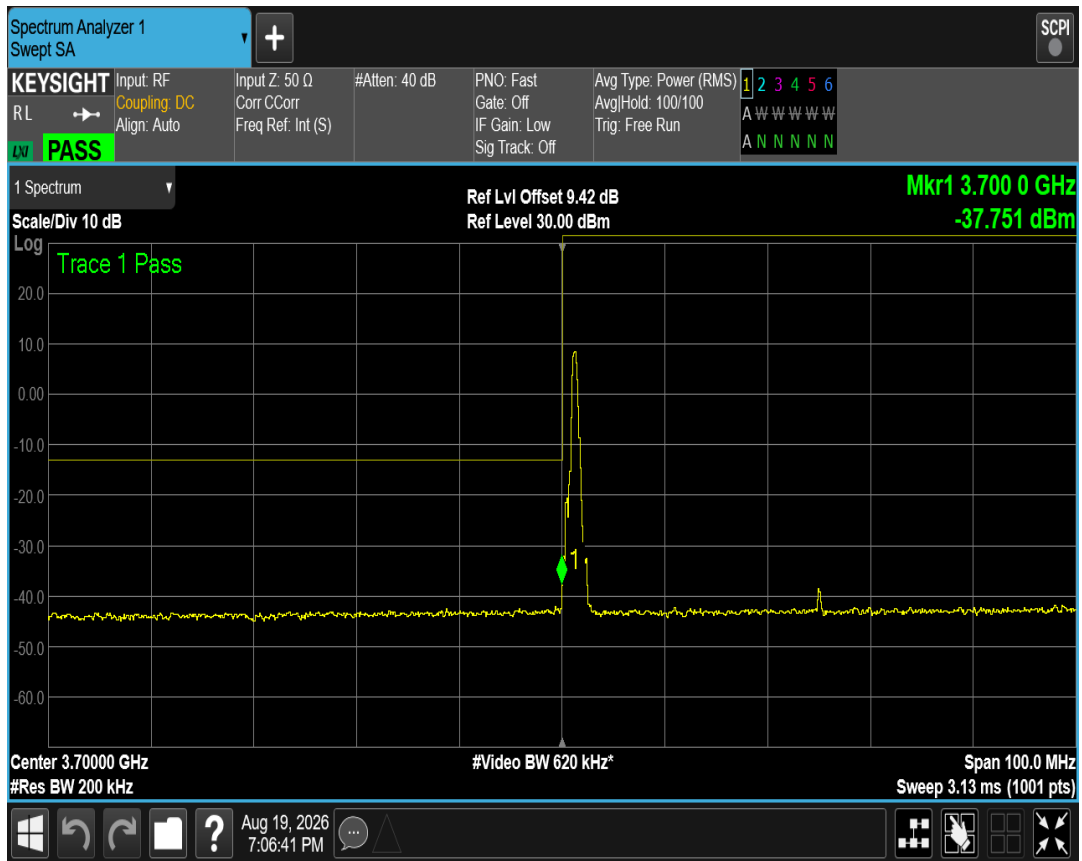
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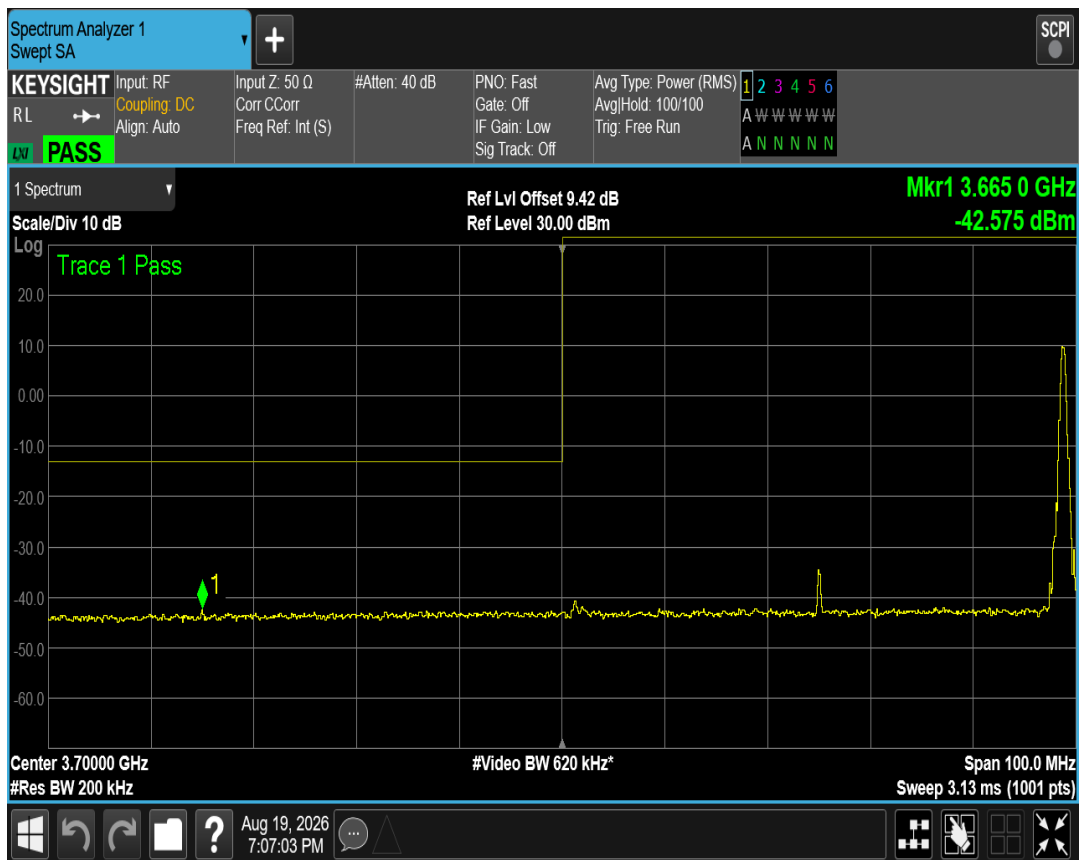
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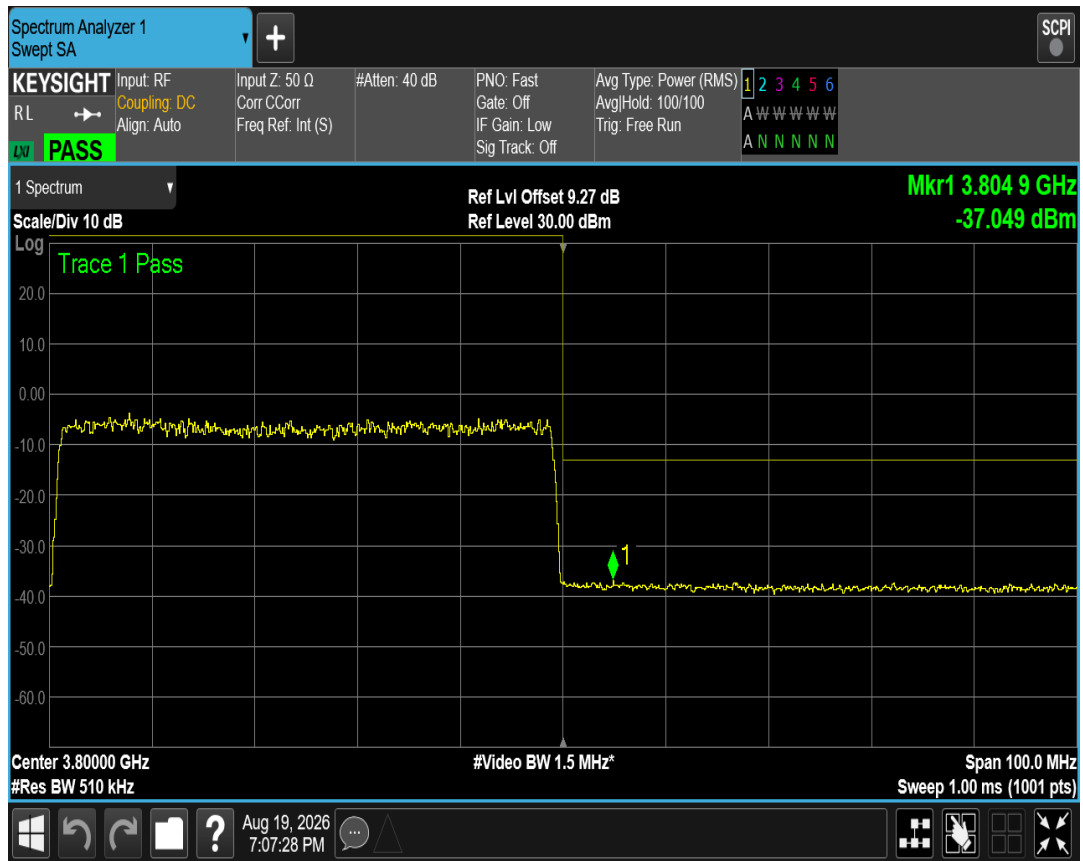
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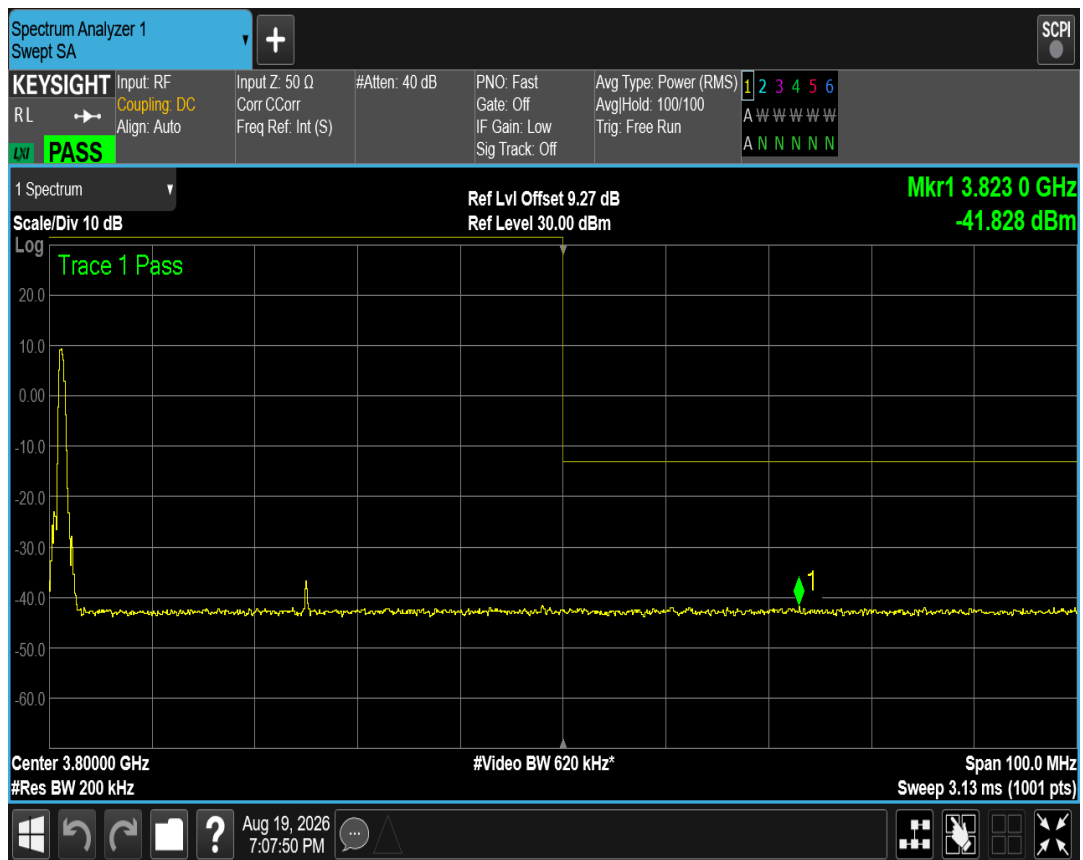
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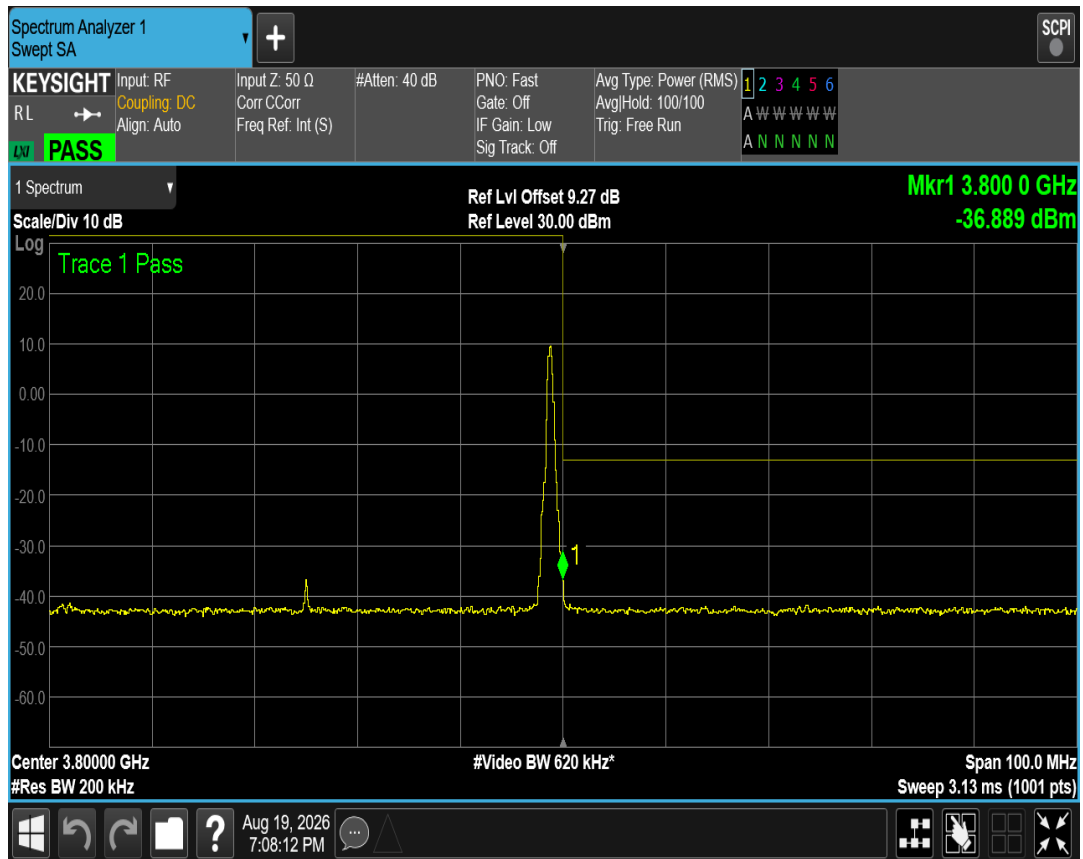
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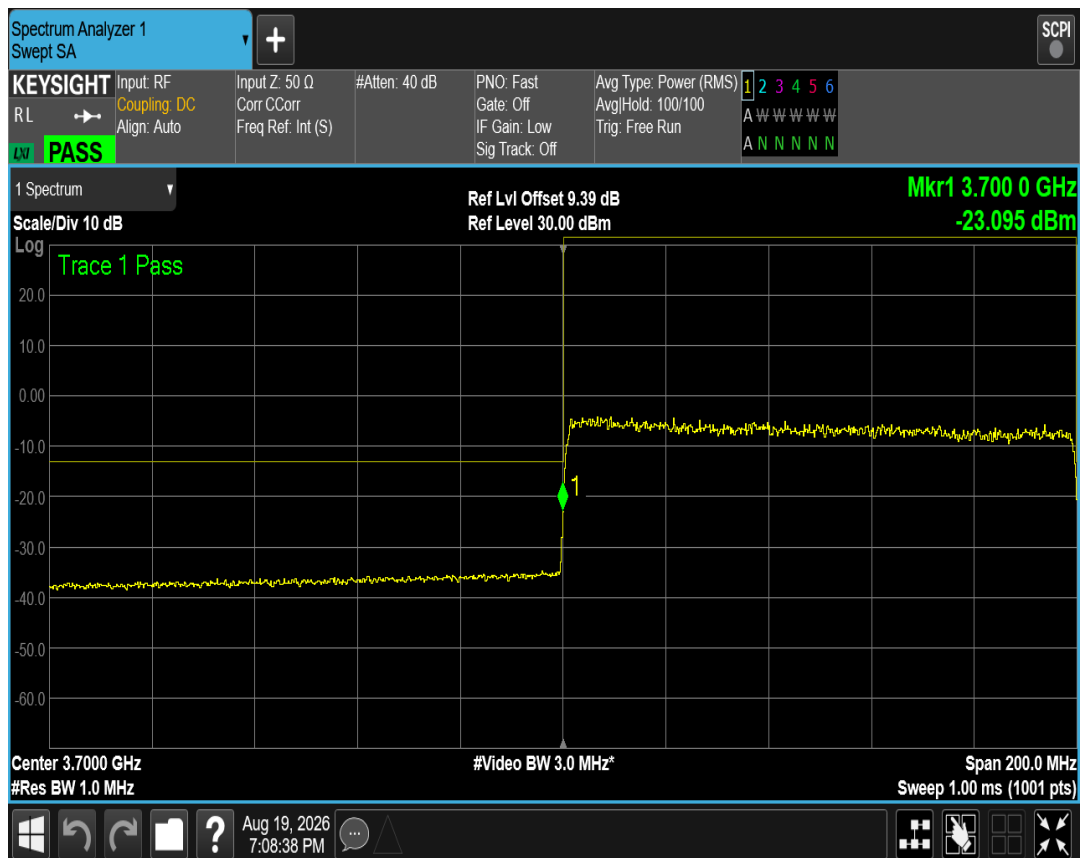
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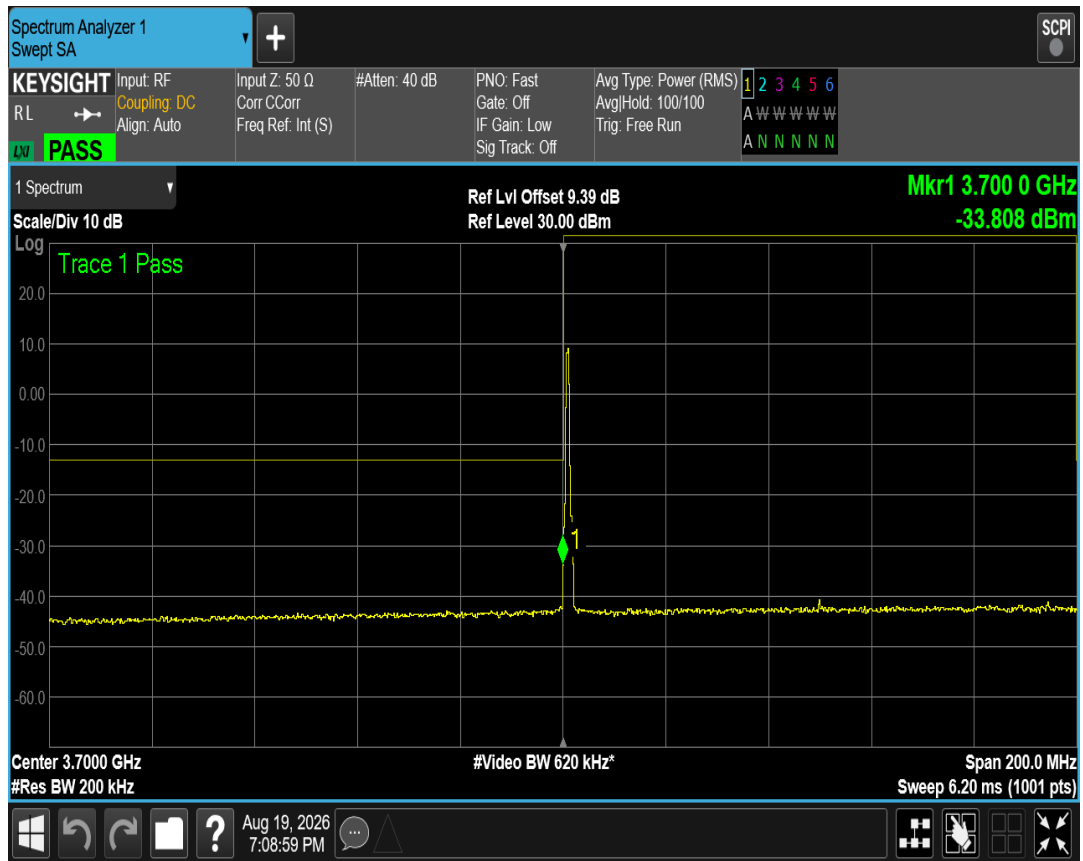
*n78(3700-3800) SCS=30kHz CP\_QPSK BW=50MHz Channel=651666 RB=1@132*



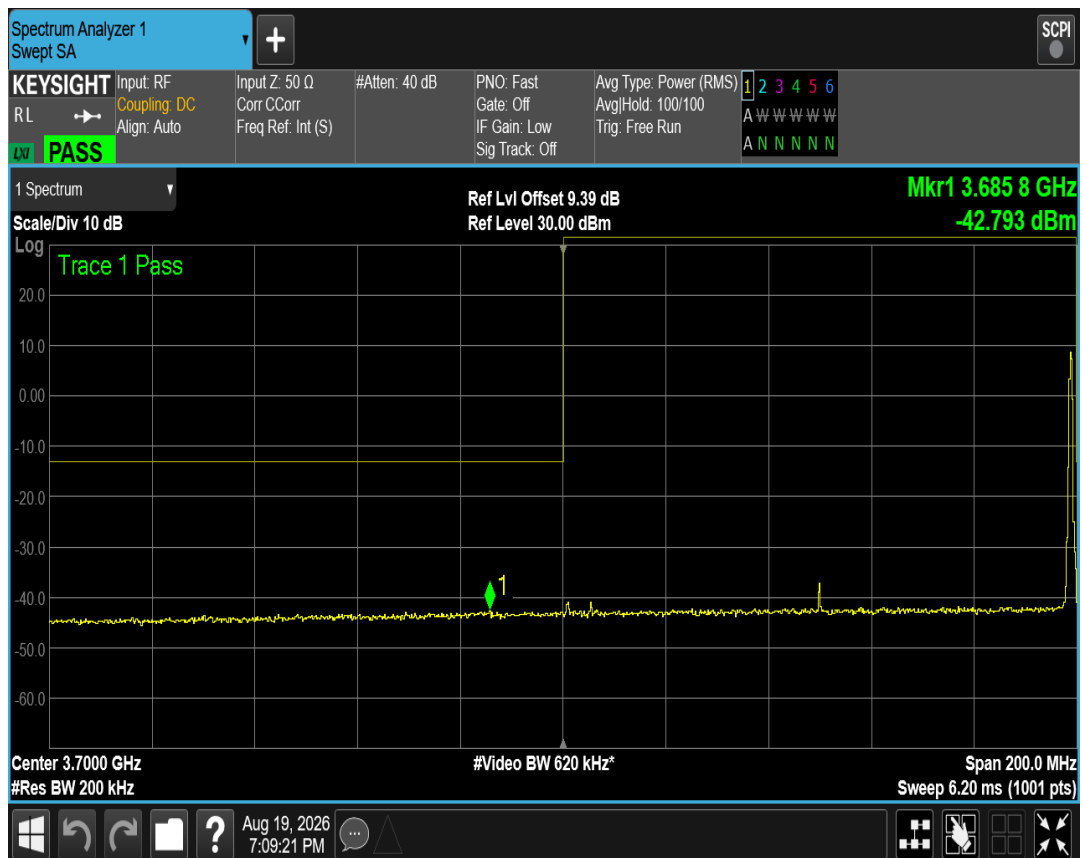
*n78(3700-3800) SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=273@0*



*n78(3700-3800) SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=1@0*



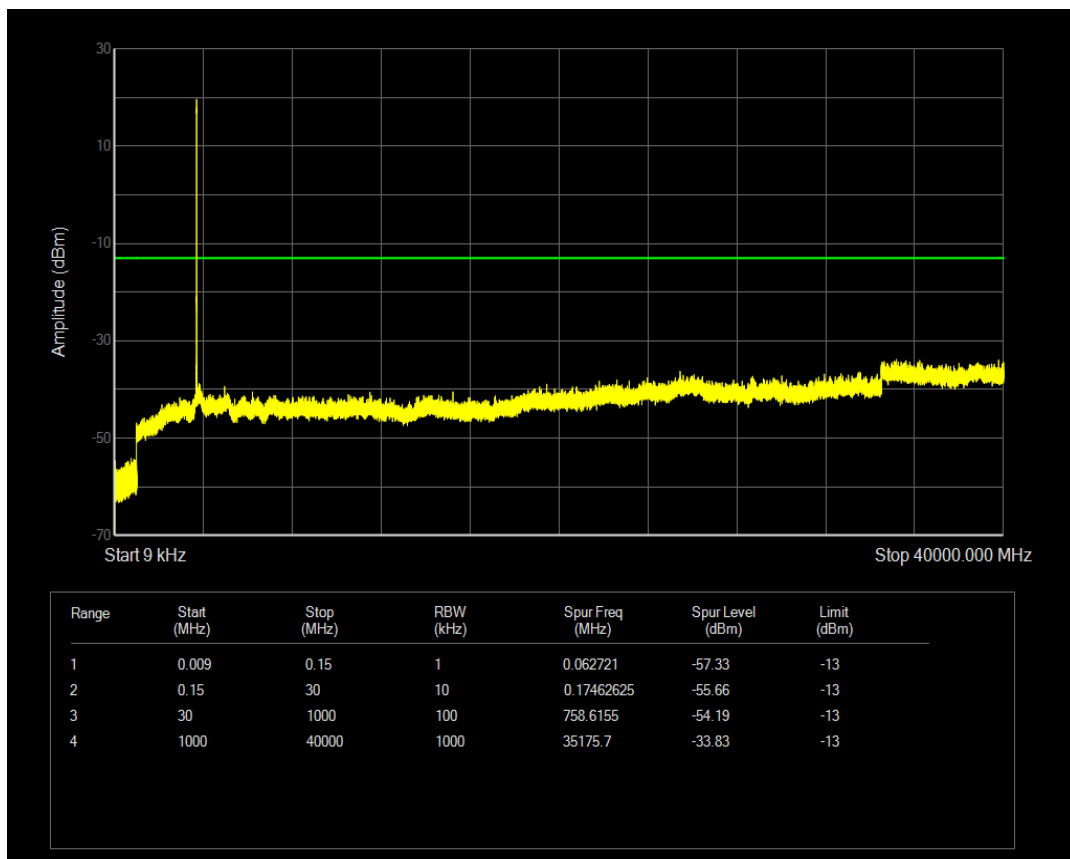
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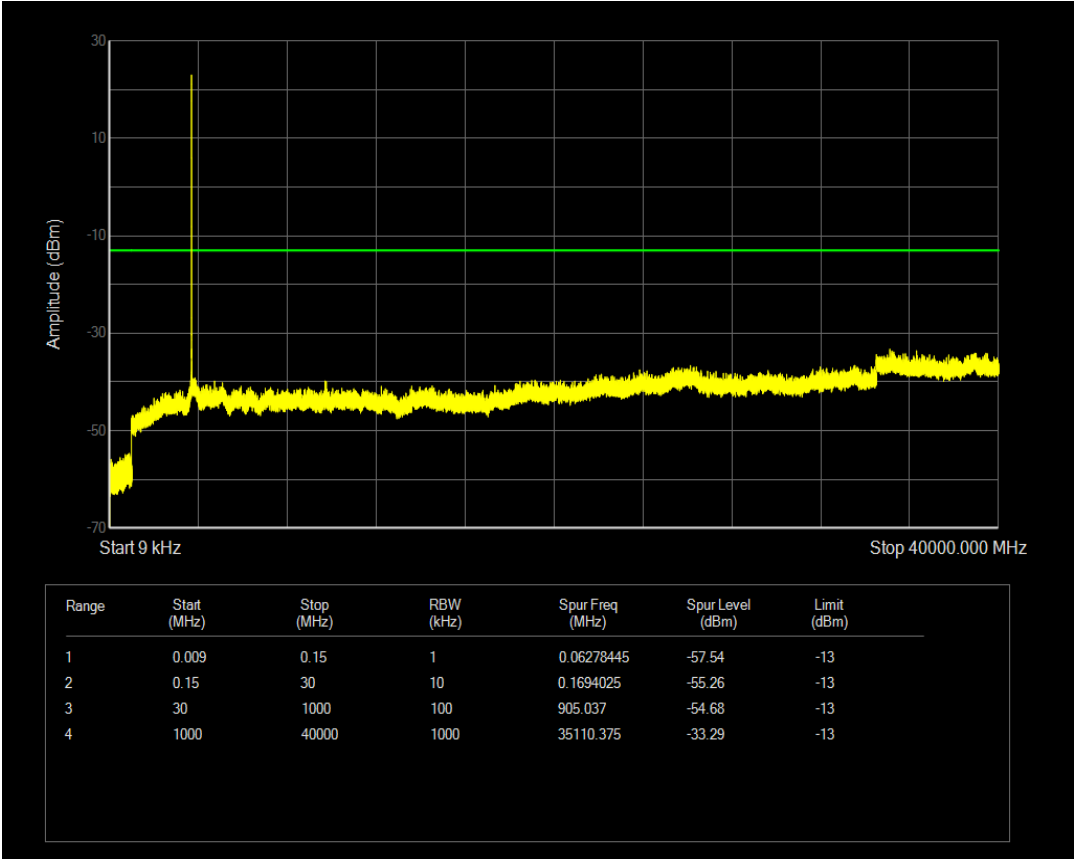
## 6 Out-of-band emissions for NR FR1

| Band           | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Spur Freq<br>(MHz) | Spur<br>Level<br>(dBm) | Limit<br>(dBm) | Verdict |
|----------------|--------------|--------------------|---------------|------------------|------------|--------------------|------------------------|----------------|---------|
| n78(3700-3800) | 30           | 10                 | 647000        | 24@0             | CP_QPSK    | 35175.70           | -33.83                 | -13            | PASS    |
| n78(3700-3800) | 30           | 10                 | 647000        | 1@0              | CP_QPSK    | 35110.38           | -33.29                 | -13            | PASS    |
| n78(3700-3800) | 30           | 10                 | 647000        | 1@23             | CP_QPSK    | 35372.65           | -33.07                 | -13            | PASS    |
| n78(3700-3800) | 30           | 10                 | 653000        | 24@0             | CP_QPSK    | 34520.50           | -33.76                 | -13            | PASS    |
| n78(3700-3800) | 30           | 10                 | 653000        | 1@0              | CP_QPSK    | 35563.75           | -33.29                 | -13            | PASS    |
| n78(3700-3800) | 30           | 10                 | 653000        | 1@23             | CP_QPSK    | 34878.33           | -32.95                 | -13            | PASS    |
| n78(3700-3800) | 30           | 50                 | 648334        | 133@0            | CP_QPSK    | 34586.80           | -32.74                 | -13            | PASS    |
| n78(3700-3800) | 30           | 50                 | 648334        | 1@0              | CP_QPSK    | 34576.08           | -33.45                 | -13            | PASS    |
| n78(3700-3800) | 30           | 50                 | 648334        | 1@132            | CP_QPSK    | 38905.08           | -33.21                 | -13            | PASS    |
| n78(3700-3800) | 30           | 50                 | 651666        | 133@0            | CP_QPSK    | 38892.40           | -33.57                 | -13            | PASS    |
| n78(3700-3800) | 30           | 50                 | 651666        | 1@0              | CP_QPSK    | 36614.80           | -33.38                 | -13            | PASS    |
| n78(3700-3800) | 30           | 50                 | 651666        | 1@132            | CP_QPSK    | 38927.50           | -33.85                 | -13            | PASS    |
| n78(3700-3800) | 30           | 100                | 650000        | 273@0            | CP_QPSK    | 38936.28           | -33.53                 | -13            | PASS    |
| n78(3700-3800) | 30           | 100                | 650000        | 1@0              | CP_QPSK    | 35137.68           | -32.75                 | -13            | PASS    |
| n78(3700-3800) | 30           | 100                | 650000        | 1@272            | CP_QPSK    | 35764.60           | -33.65                 | -13            | PASS    |

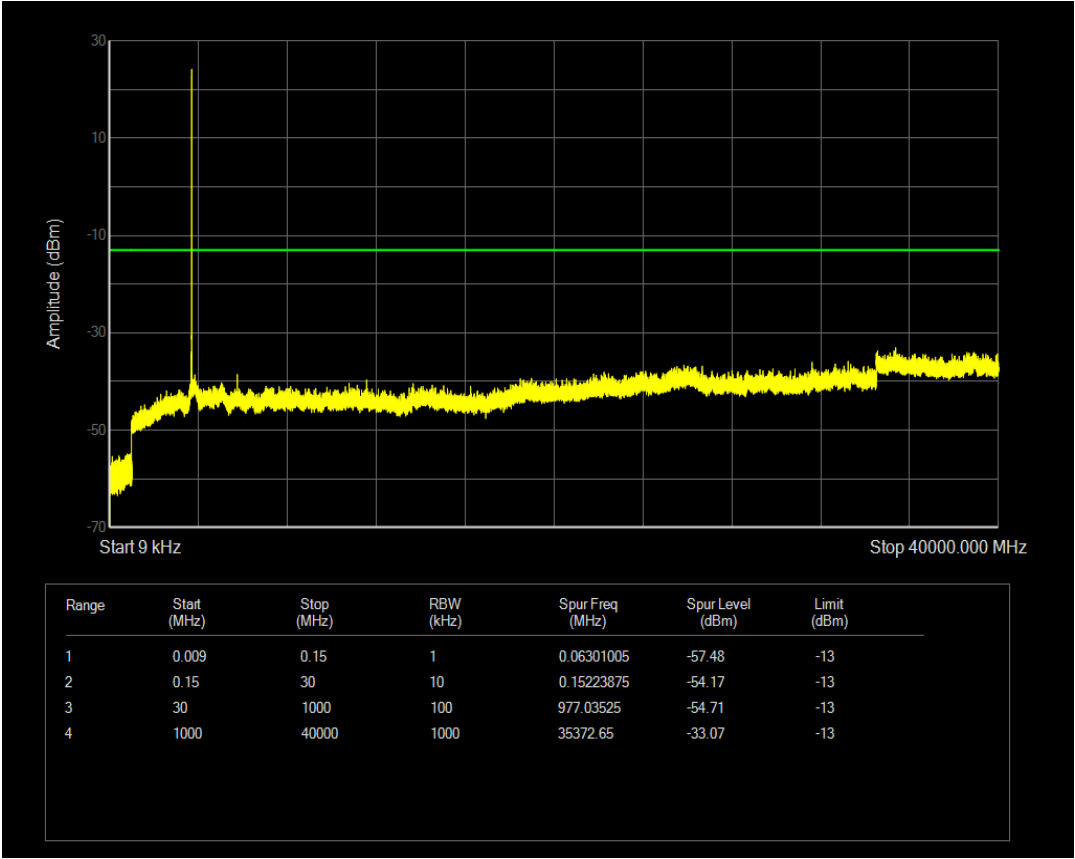
*n78(3700-3800) SCS=30kHz CP\_QPSK BW=10MHz Channel=647000 RB=24@0*



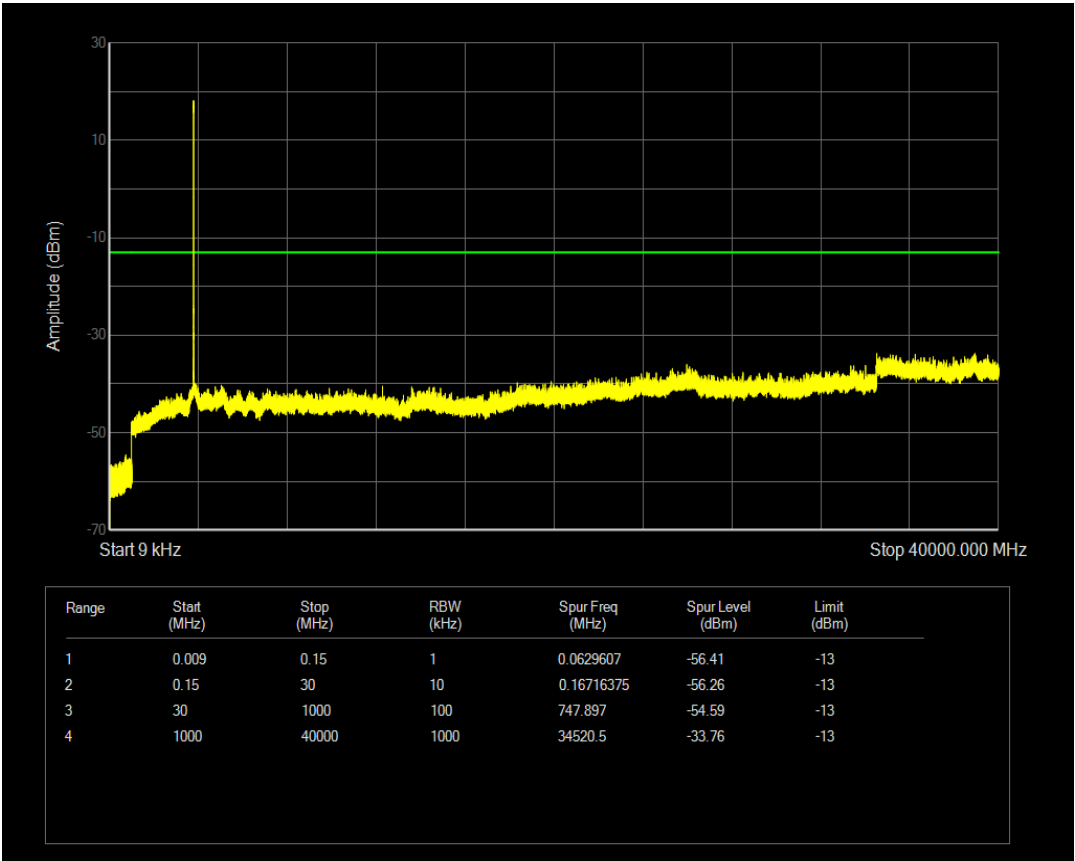
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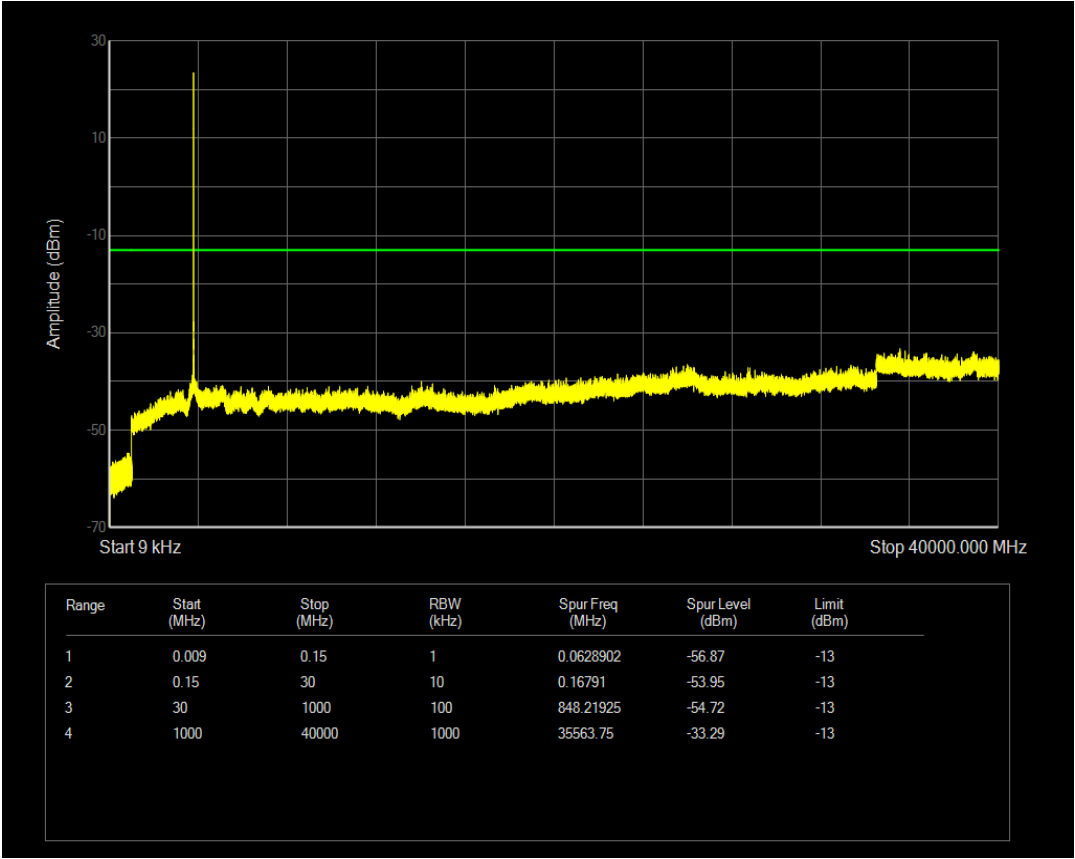
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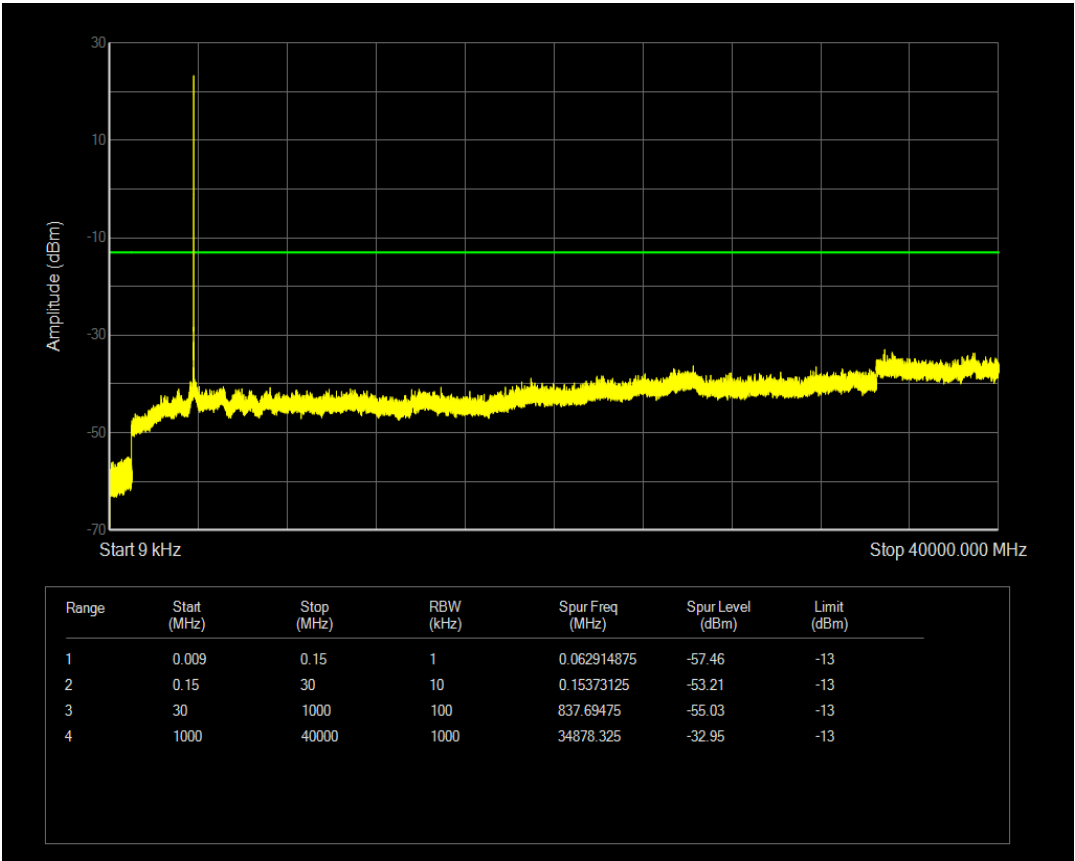
*n78(3700-3800) SCS=30kHz CP\_QPSK BW=10MHz Channel=653000 RB=24@0*



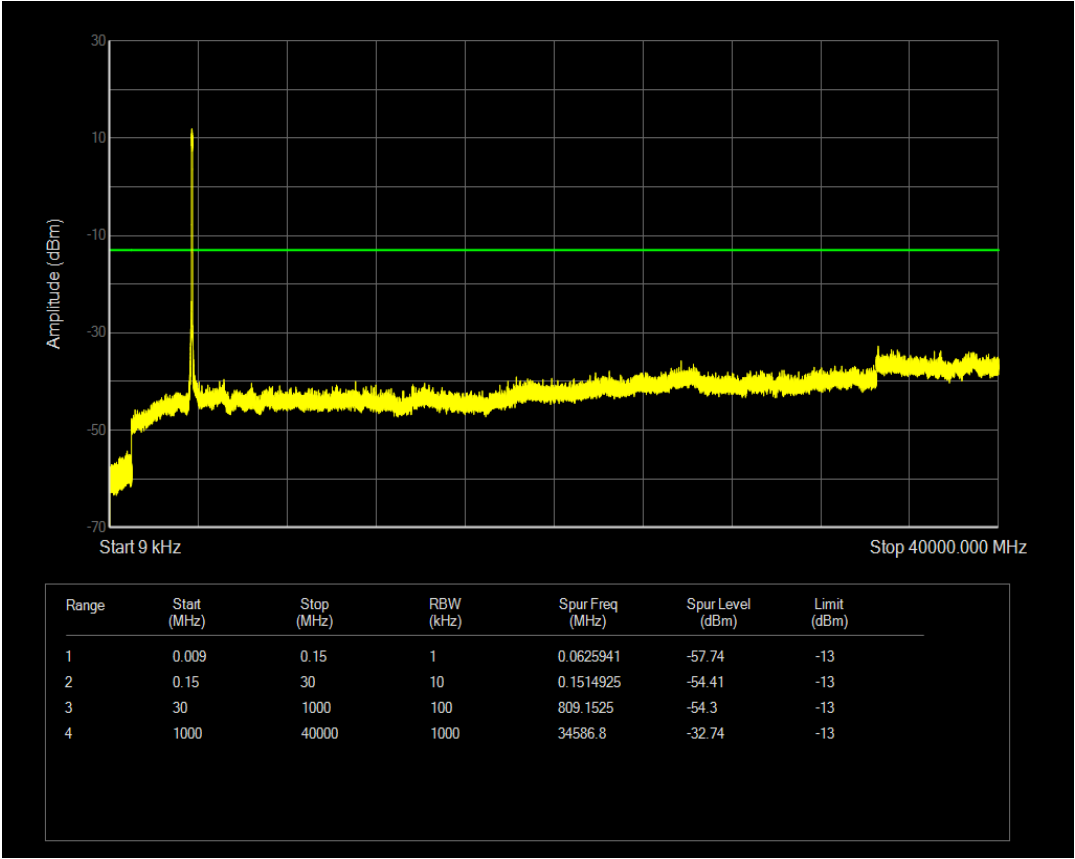
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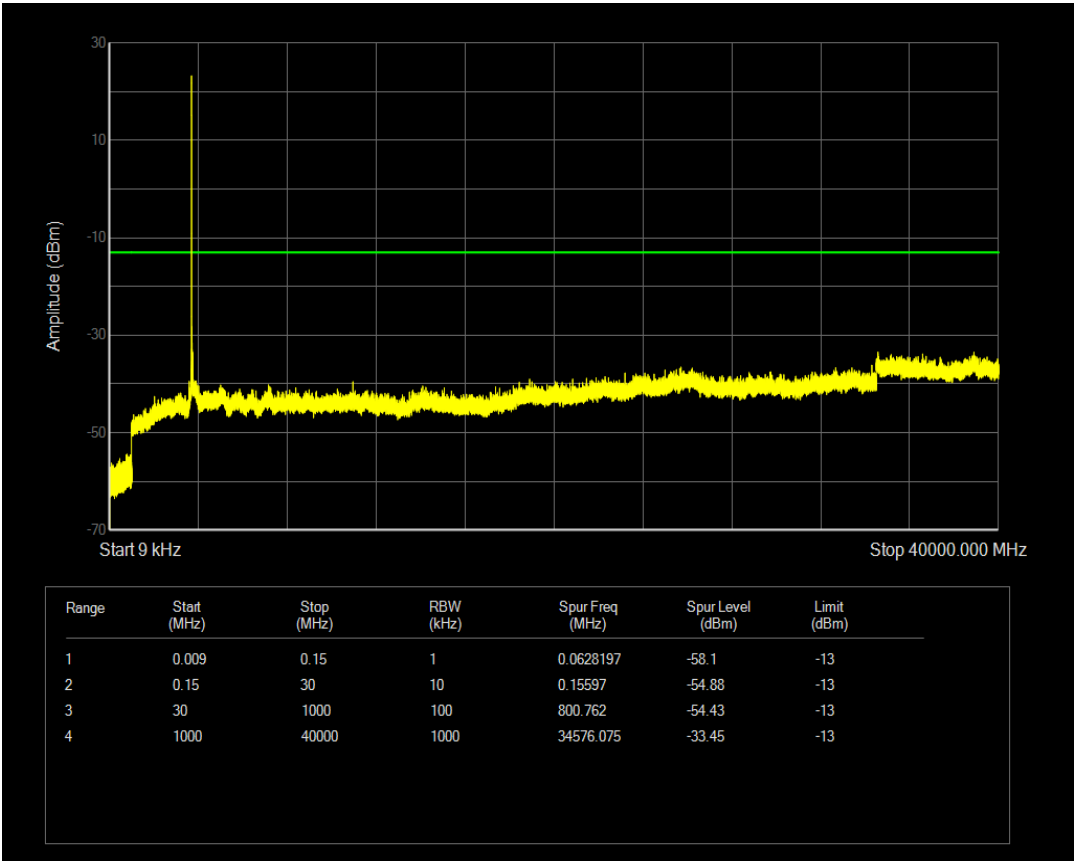
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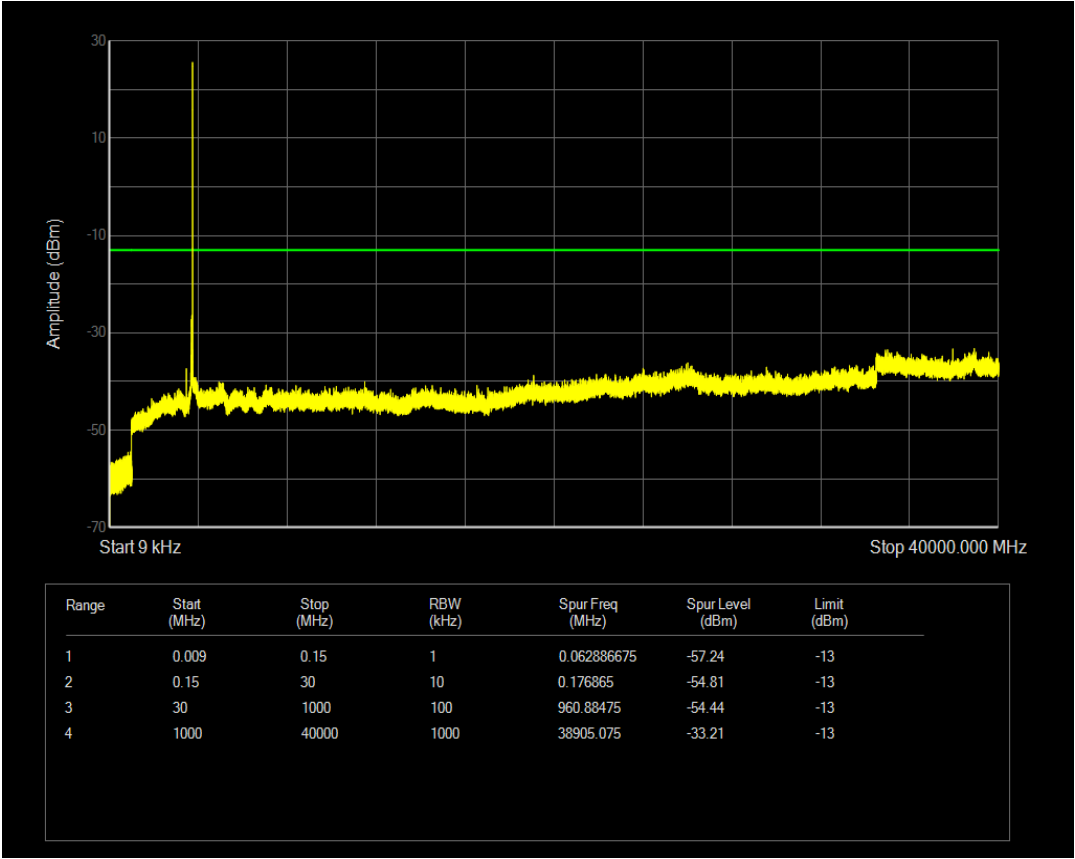
n78(3700-3800) SCS=30kHz CP\_QPSK BW=50MHz Channel=648334 RB=133@0



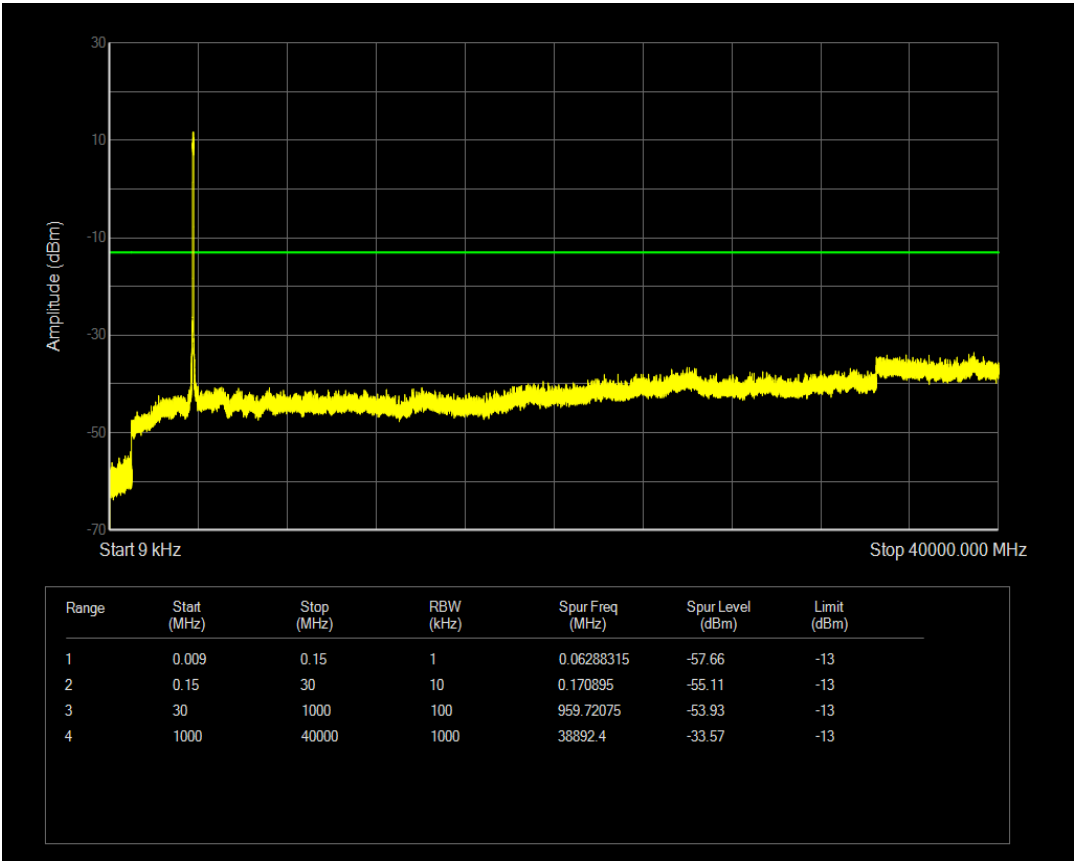
n78(3700-3800) SCS=30kHz CP\_QPSK BW=50MHz Channel=648334 RB=1@0



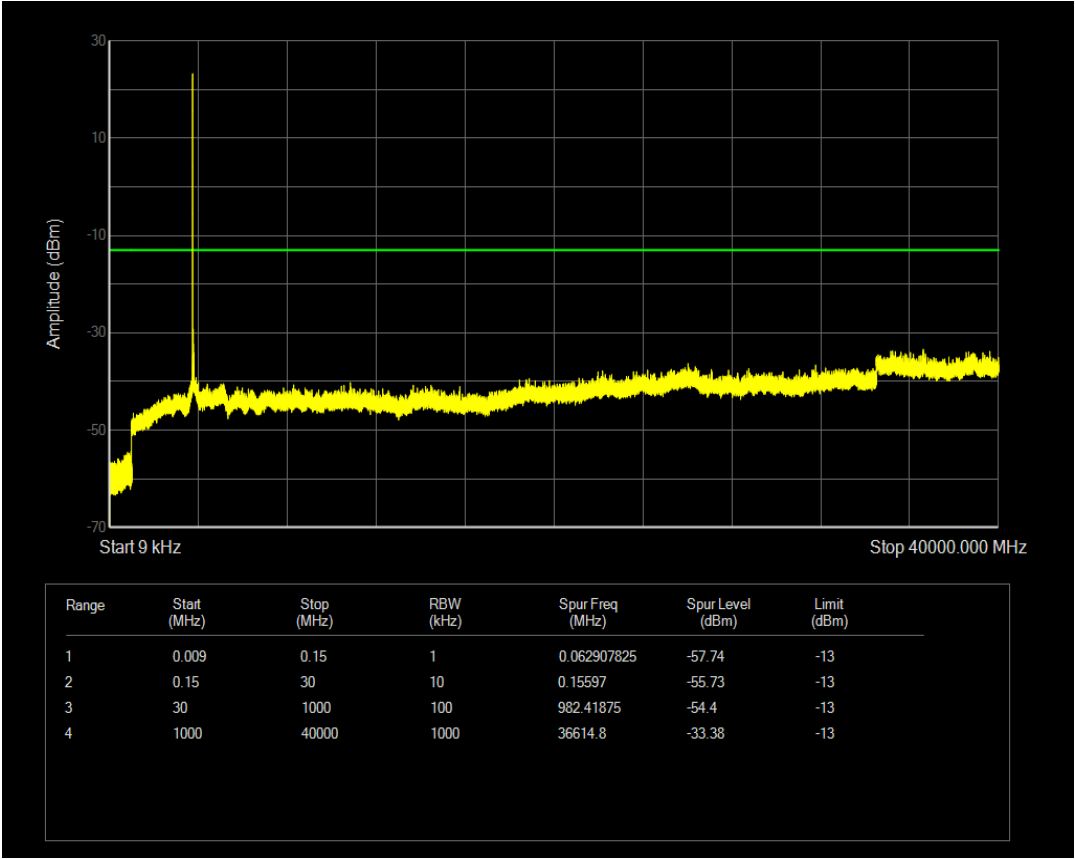
n78(3700-3800) SCS=30kHz CP\_QPSK BW=50MHz Channel=648334 RB=1@132



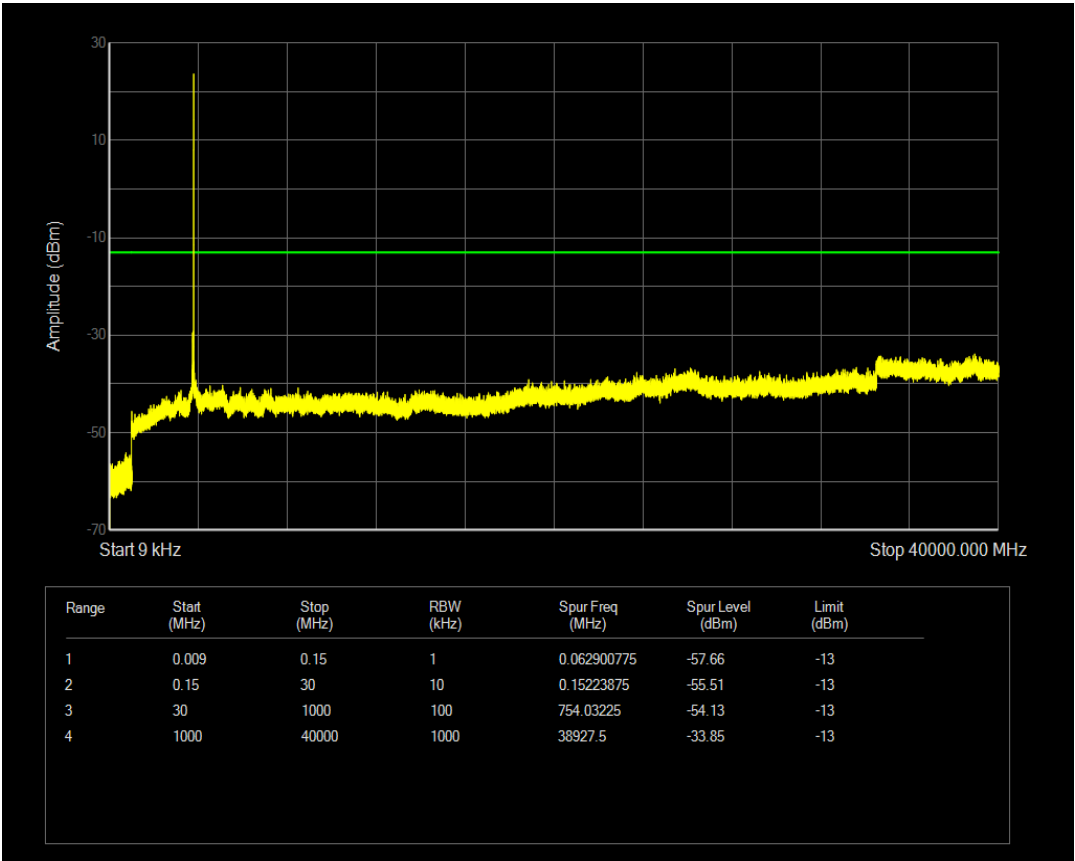
n78(3700-3800) SCS=30kHz CP\_QPSK BW=50MHz Channel=651666 RB=133@0



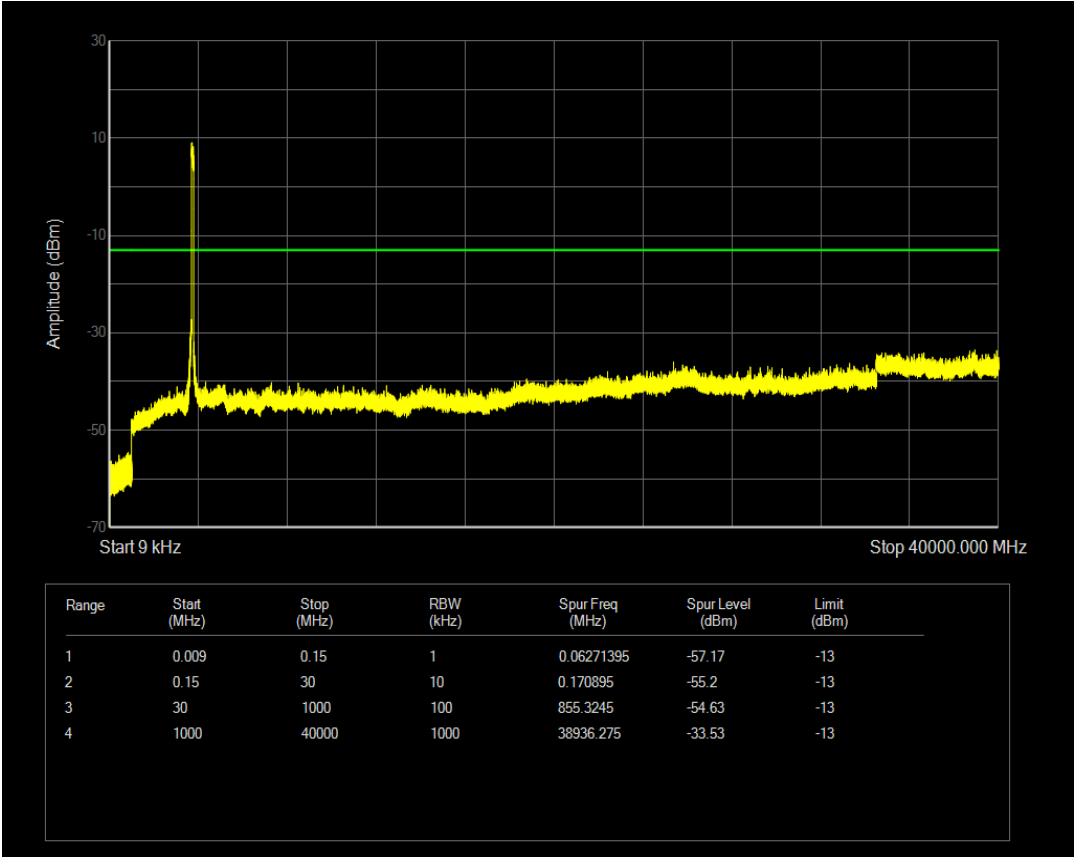
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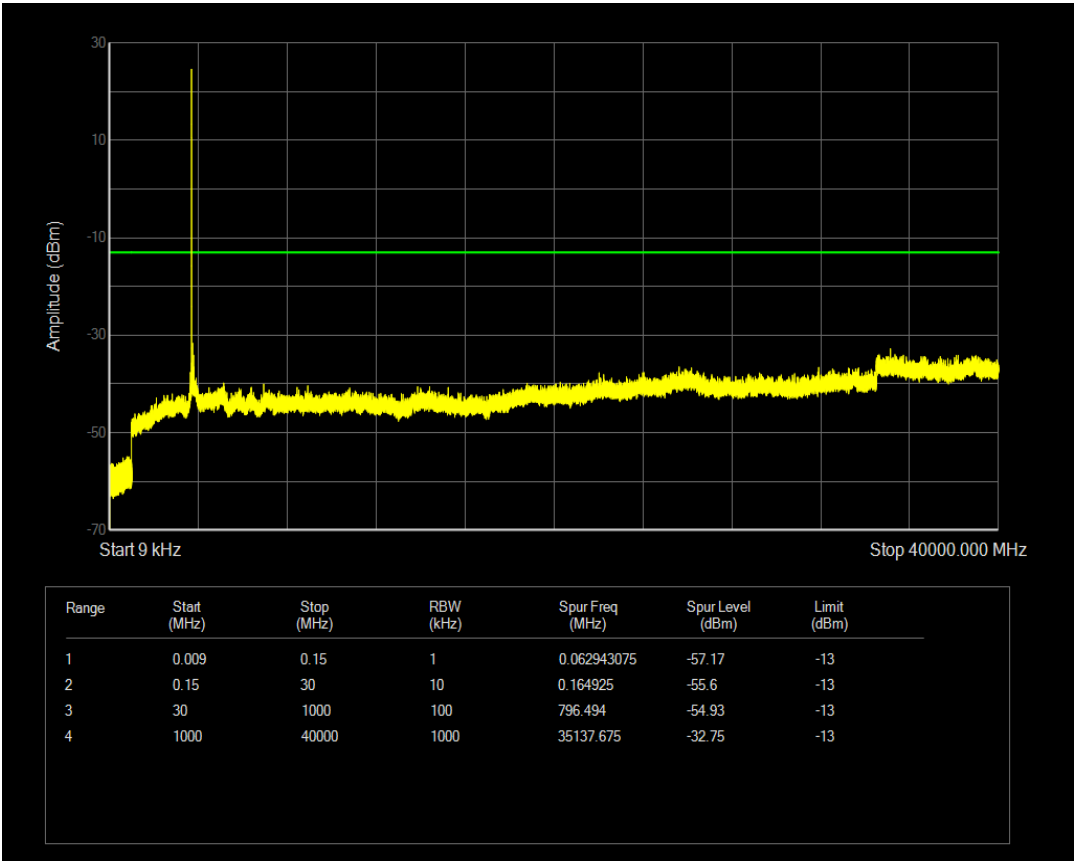
*n78(3700-3800) SCS=30kHz CP\_QPSK BW=50MHz Channel=651666 RB=1@132*



*n78(3700-3800) SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=273@0*



*n78(3700-3800) SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=1@0*



*n78(3700-3800) SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=1@272*

