



***n78 SCS=30kHz DFT\_QPSK BW=100MHz Channel=636666 RB=270@0***



***n78 SCS=30kHz DFT\_QPSK BW=10MHz Channel=636666 RB=24@0***



**n78 SCS=30kHz DFT\_QPSK BW=15MHz Channel=636666 RB=36@0**



**n78 SCS=30kHz DFT\_QPSK BW=20MHz Channel=636666 RB=50@0**



***n78 SCS=30kHz DFT\_QPSK BW=40MHz Channel=63666 RB=100@0***



***n78 SCS=30kHz DFT\_QPSK BW=50MHz Channel=63666 RB=128@0***



***n78 SCS=30kHz DFT\_QPSK BW=60MHz Channel=636666 RB=162@0***



***n78 SCS=30kHz DFT\_QPSK BW=80MHz Channel=636666 RB=216@0***



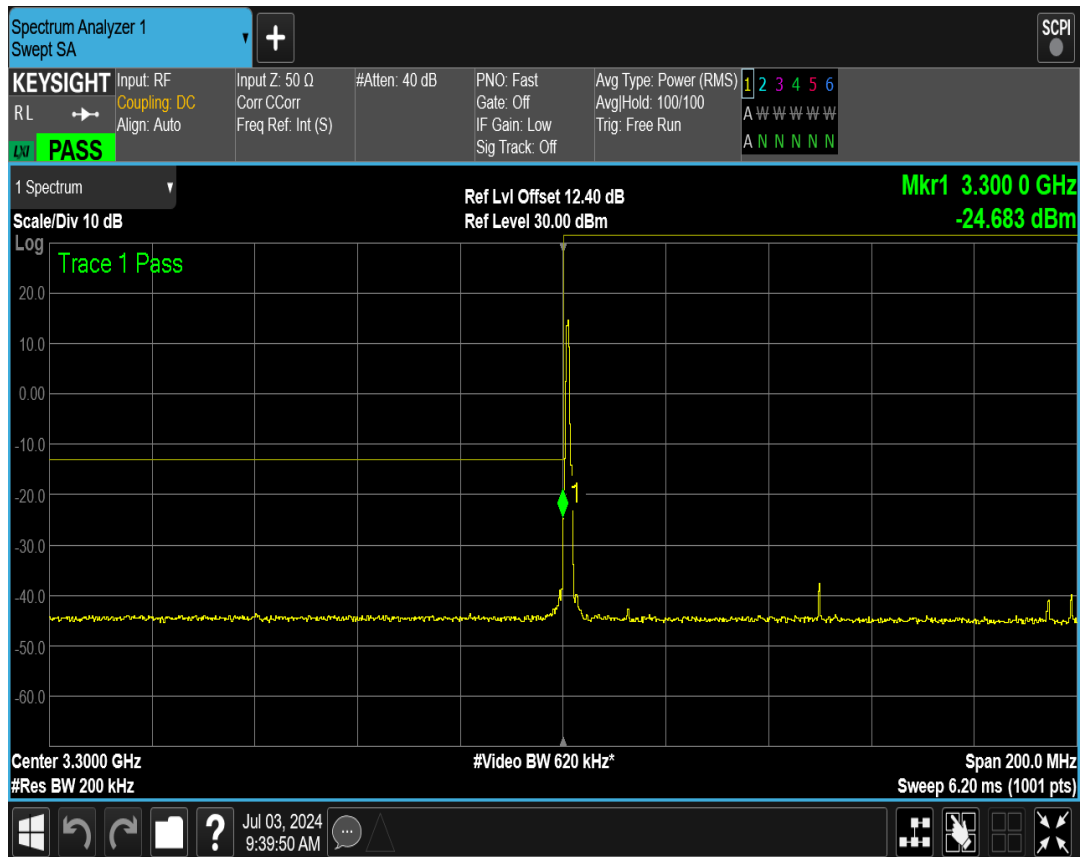
*n78 SCS=30kHz DFT\_QPSK BW=90MHz Channel=636666 RB=240@0*



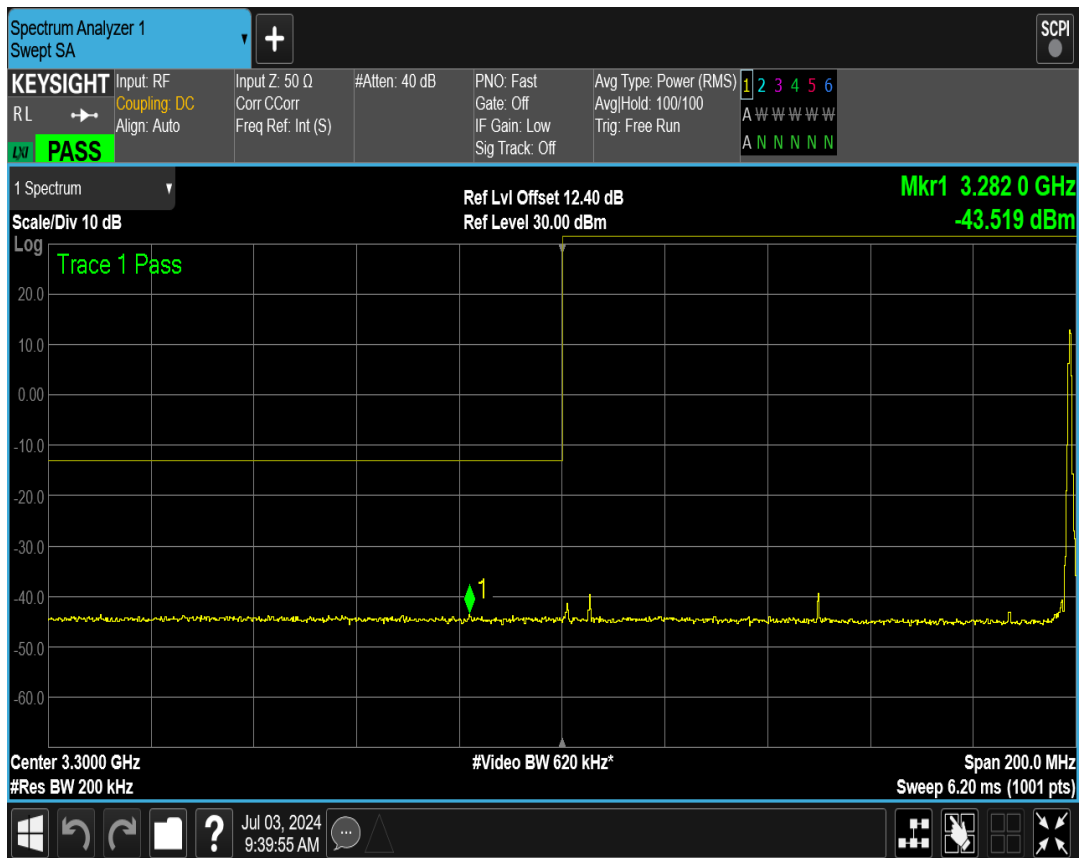
## 5 Band edge for EN-DC

| 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 |
|------|--------------|--------------------|---------------|------------------|------------|--------------------|---------------------|----------------|---------|
| n78  | 30           | 10                 | 620334        | 24@0             | CP_QPSK    | 3299.76            | -38.06              | -13            | PASS    |
| n78  | 30           | 10                 | 620334        | 1@0              | CP_QPSK    | 3299.88            | -33.77              | -13            | PASS    |
| n78  | 30           | 10                 | 620334        | 1@23             | CP_QPSK    | 3294.38            | -42.41              | -13            | PASS    |
| n78  | 30           | 10                 | 653000        | 24@0             | CP_QPSK    | 3800.56            | -39.07              | -13            | PASS    |
| n78  | 30           | 10                 | 653000        | 1@0              | CP_QPSK    | 3807.98            | -39.19              | -13            | PASS    |
| n78  | 30           | 10                 | 653000        | 1@23             | CP_QPSK    | 3800.00            | -30.71              | -13            | PASS    |
| n78  | 30           | 50                 | 621668        | 133@0            | CP_QPSK    | 3297.20            | -35.96              | -13            | PASS    |
| n78  | 30           | 50                 | 621668        | 1@0              | CP_QPSK    | 3300.00            | -35.20              | -13            | PASS    |
| n78  | 30           | 50                 | 621668        | 1@132            | CP_QPSK    | 3287.50            | -43.87              | -13            | PASS    |
| n78  | 30           | 50                 | 651666        | 133@0            | CP_QPSK    | 3808.10            | -33.87              | -13            | PASS    |
| n78  | 30           | 50                 | 651666        | 1@0              | CP_QPSK    | 3812.60            | -39.34              | -13            | PASS    |
| n78  | 30           | 50                 | 651666        | 1@132            | CP_QPSK    | 3800.00            | -33.60              | -13            | PASS    |
| n78  | 30           | 100                | 623334        | 273@0            | CP_QPSK    | 3300.00            | -23.41              | -13            | PASS    |
| n78  | 30           | 100                | 623334        | 1@0              | CP_QPSK    | 3300.00            | -24.68              | -13            | PASS    |
| n78  | 30           | 100                | 623334        | 1@272            | CP_QPSK    | 3282.00            | -43.51              | -13            | PASS    |
| n78  | 30           | 100                | 650000        | 273@0            | CP_QPSK    | 3800.00            | -16.46              | -13            | PASS    |
| n78  | 30           | 100                | 650000        | 1@0              | CP_QPSK    | 3836.60            | -39.40              | -13            | PASS    |
| n78  | 30           | 100                | 650000        | 1@272            | CP_QPSK    | 3800.00            | -32.19              | -13            | PASS    |

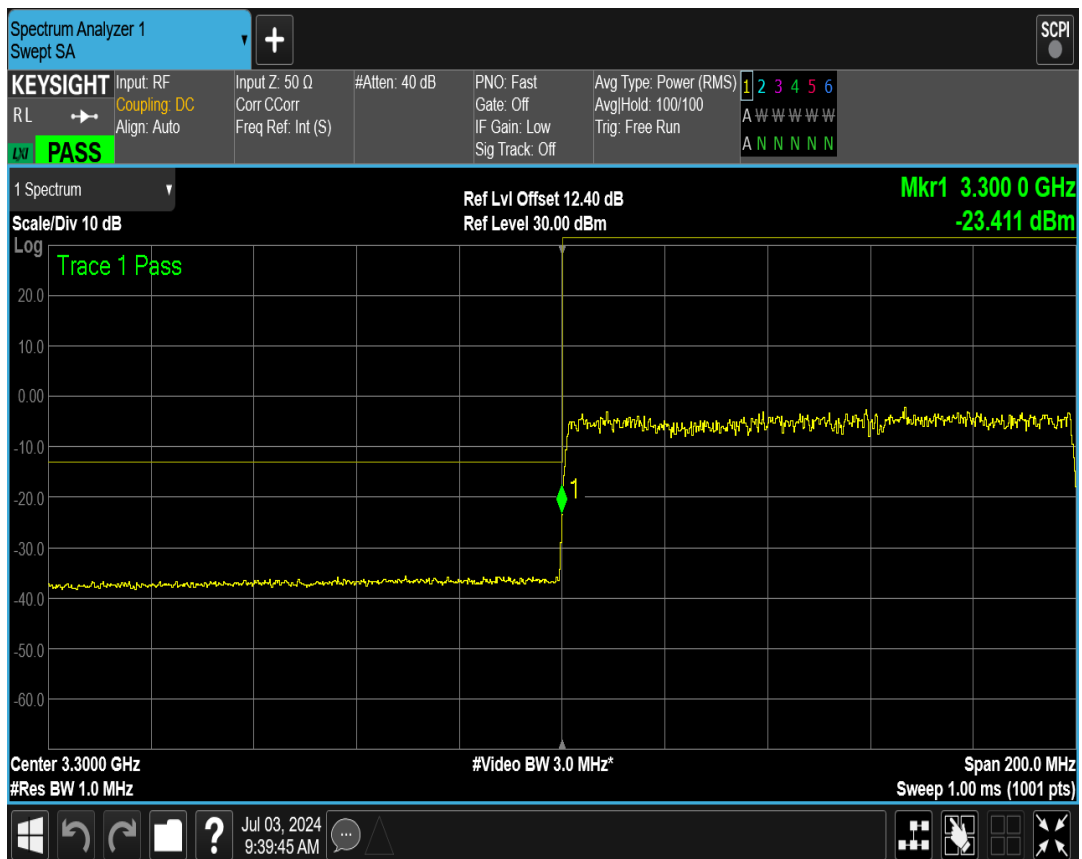
n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=623334 RB=1@0



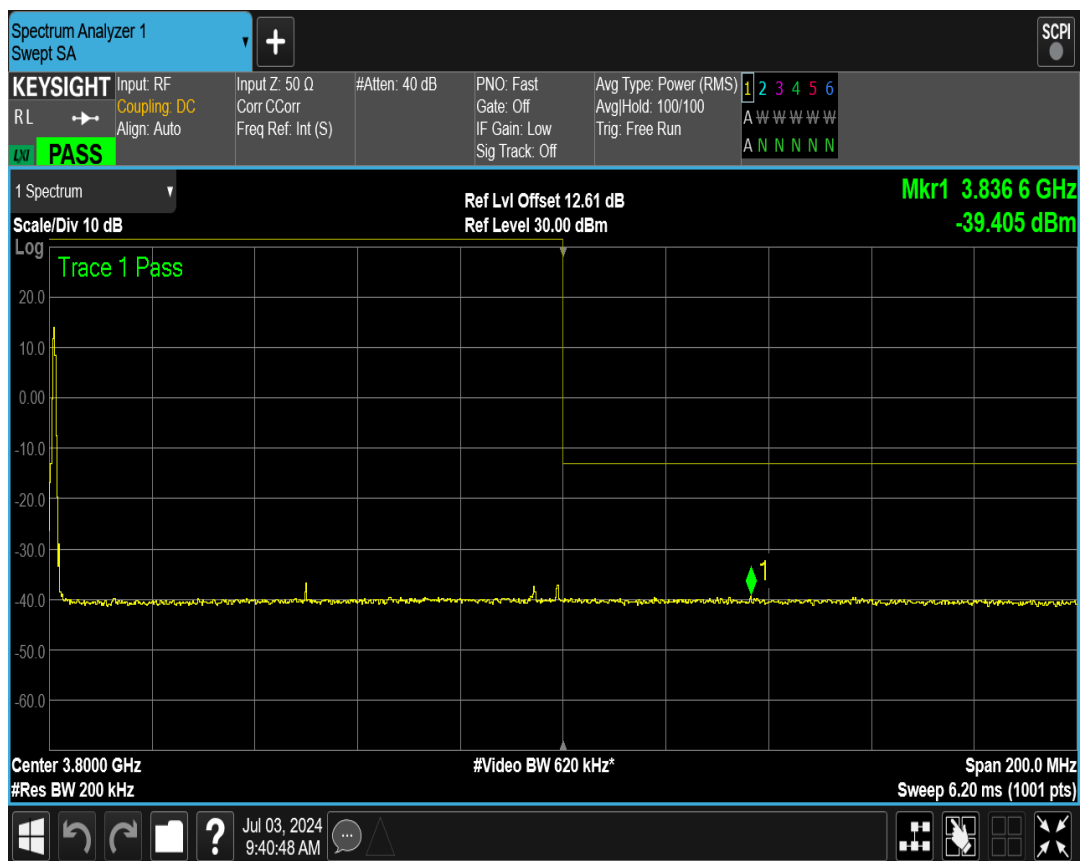
n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=623334 RB=1@272



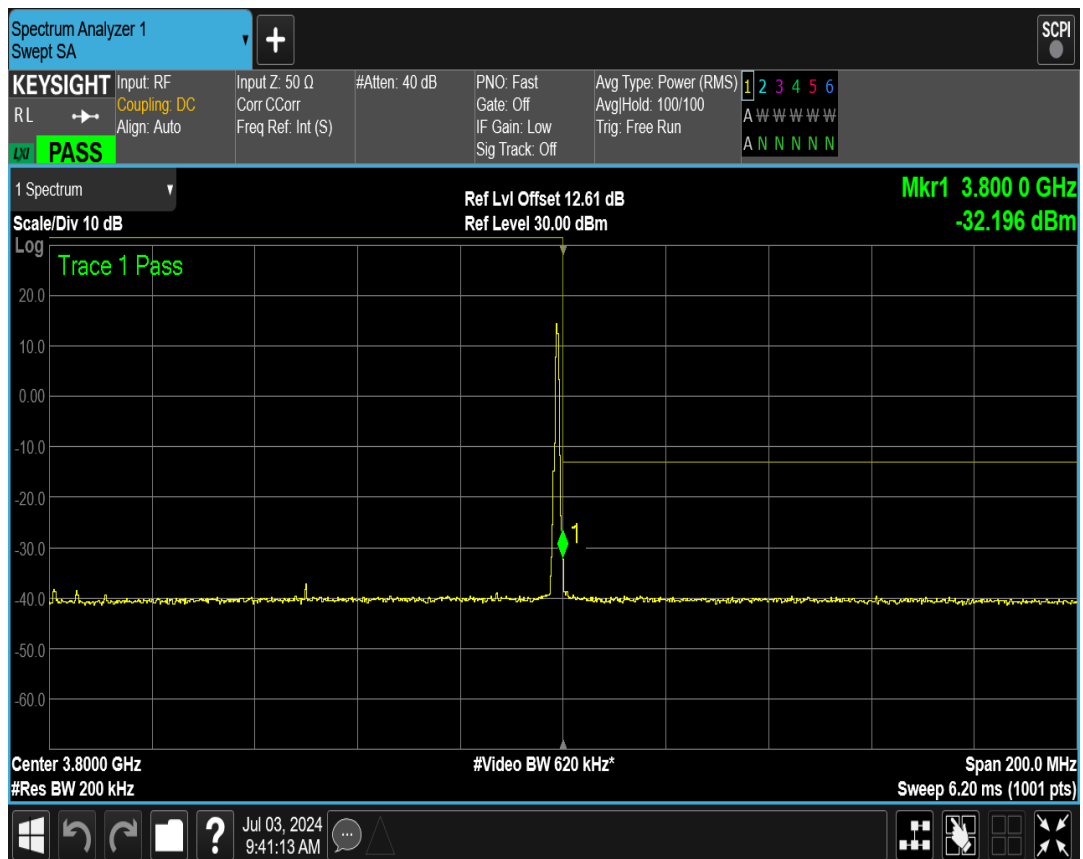
n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=623334 RB=273@0



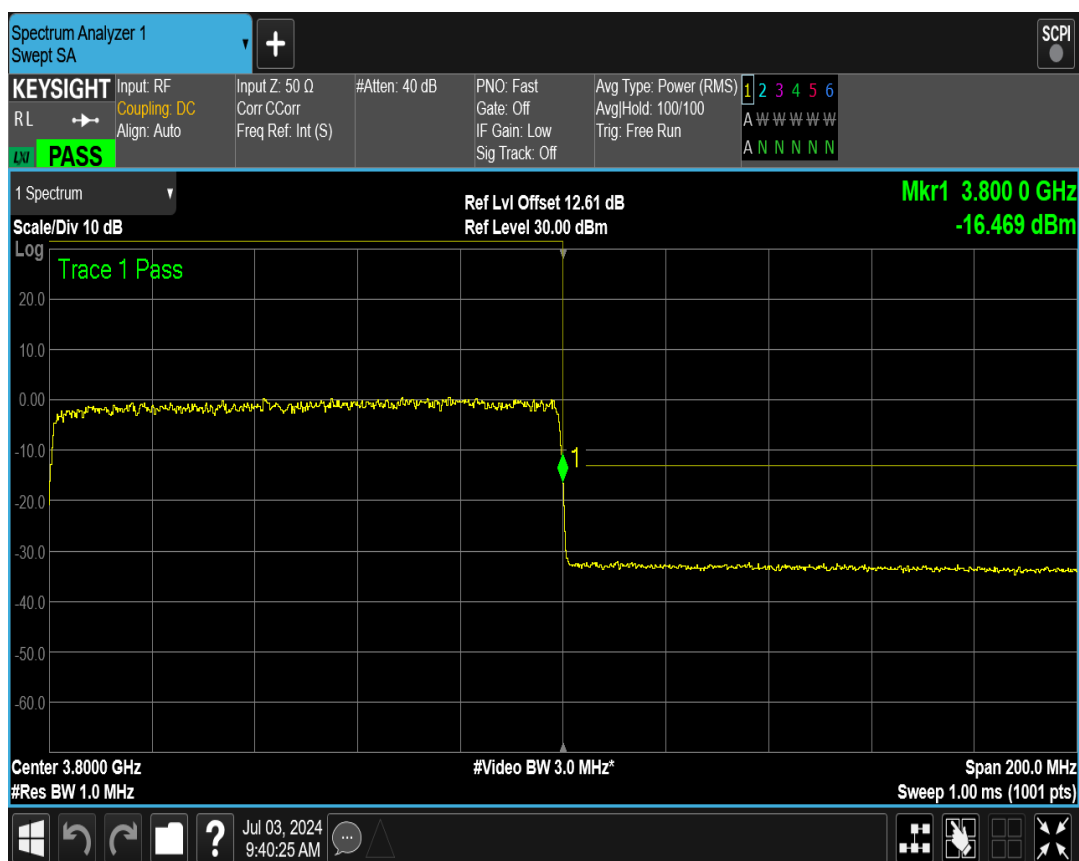
n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=1@0



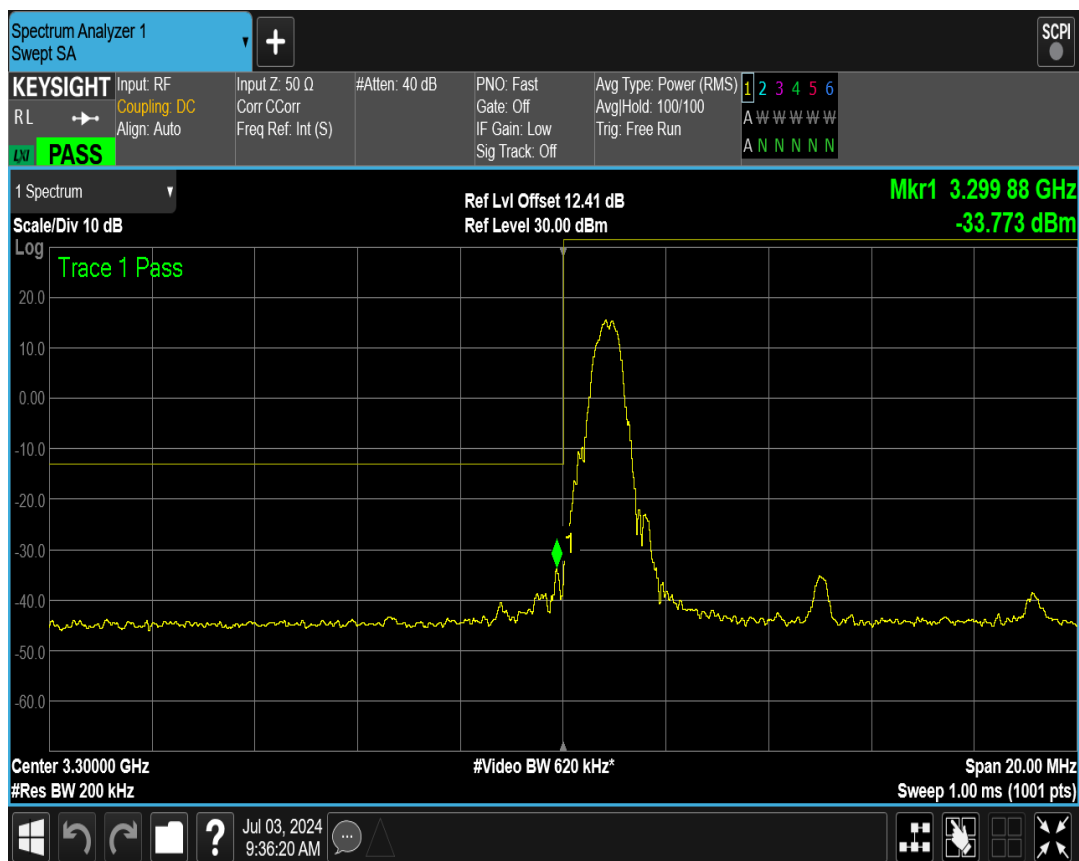
n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=1@272



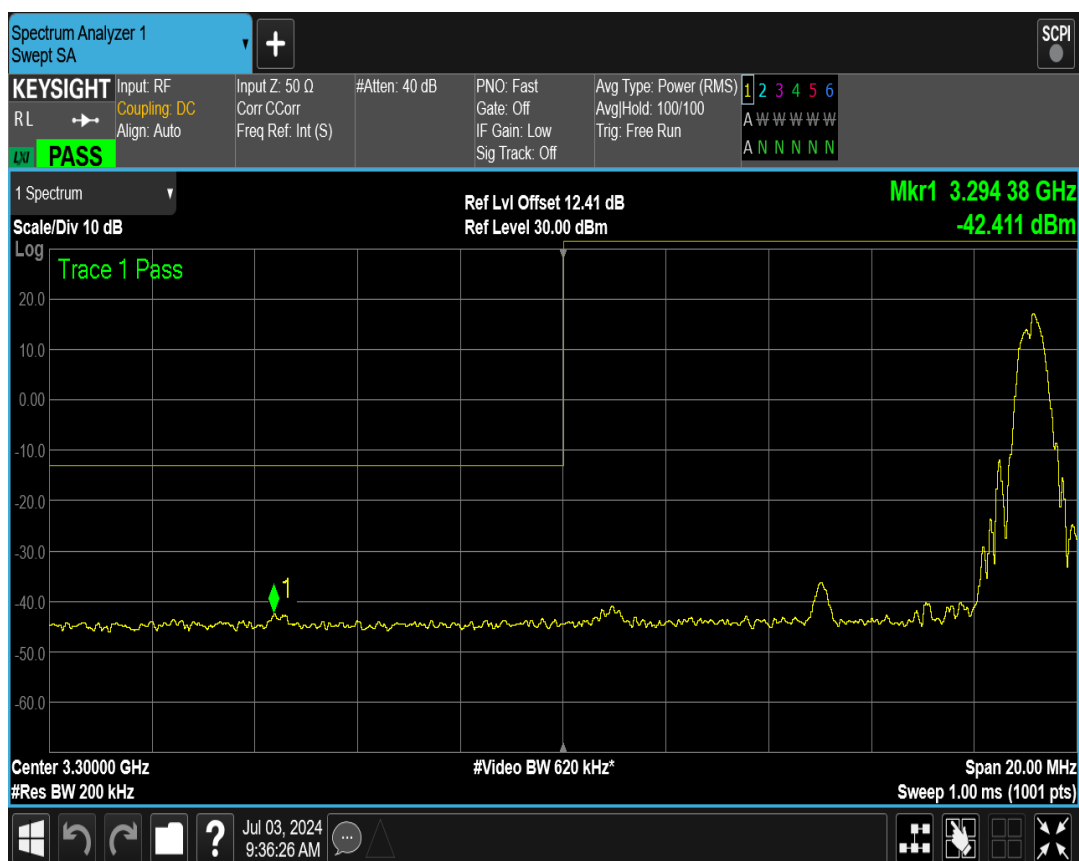
n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=273@0



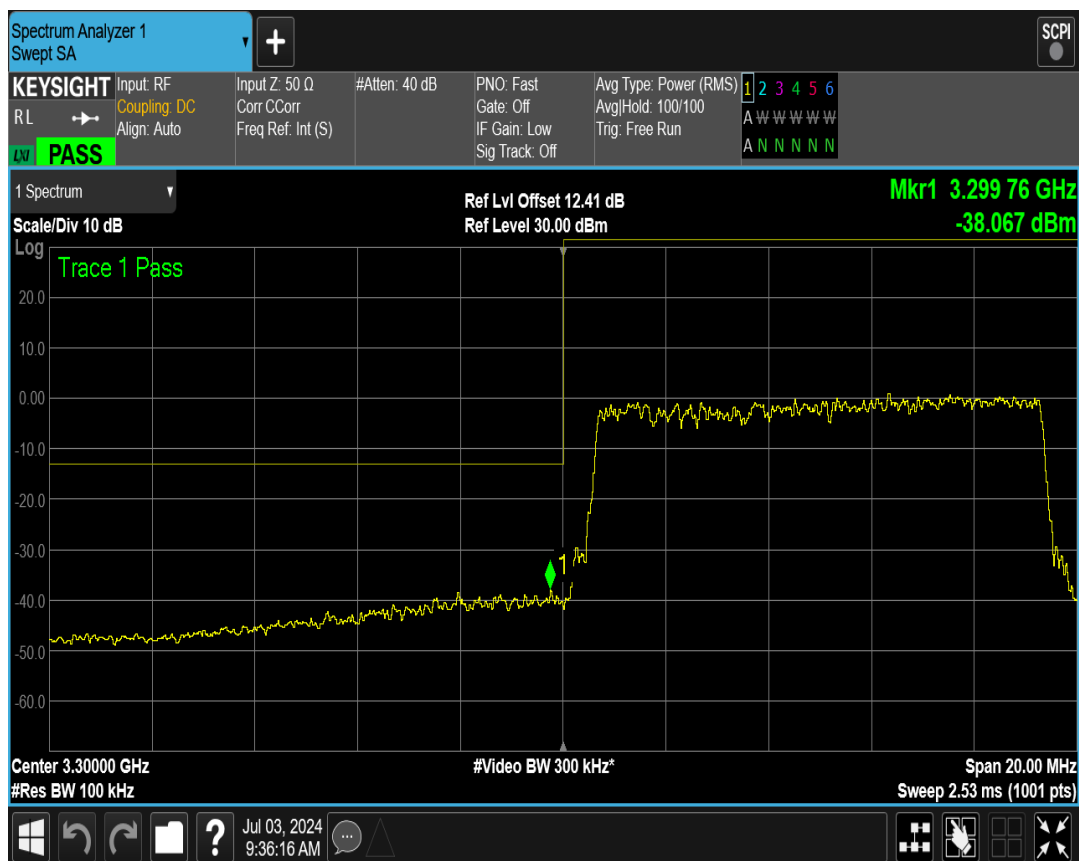
n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=620334 RB=1@0



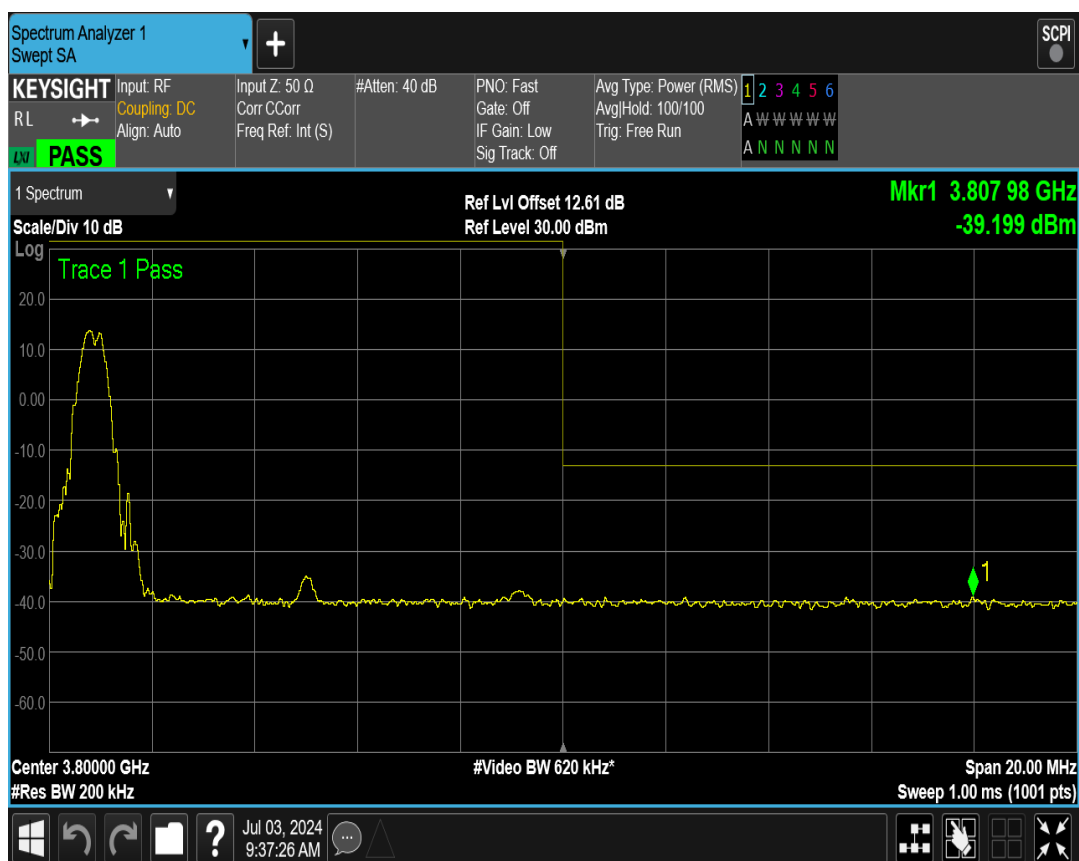
n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=620334 RB=1@23



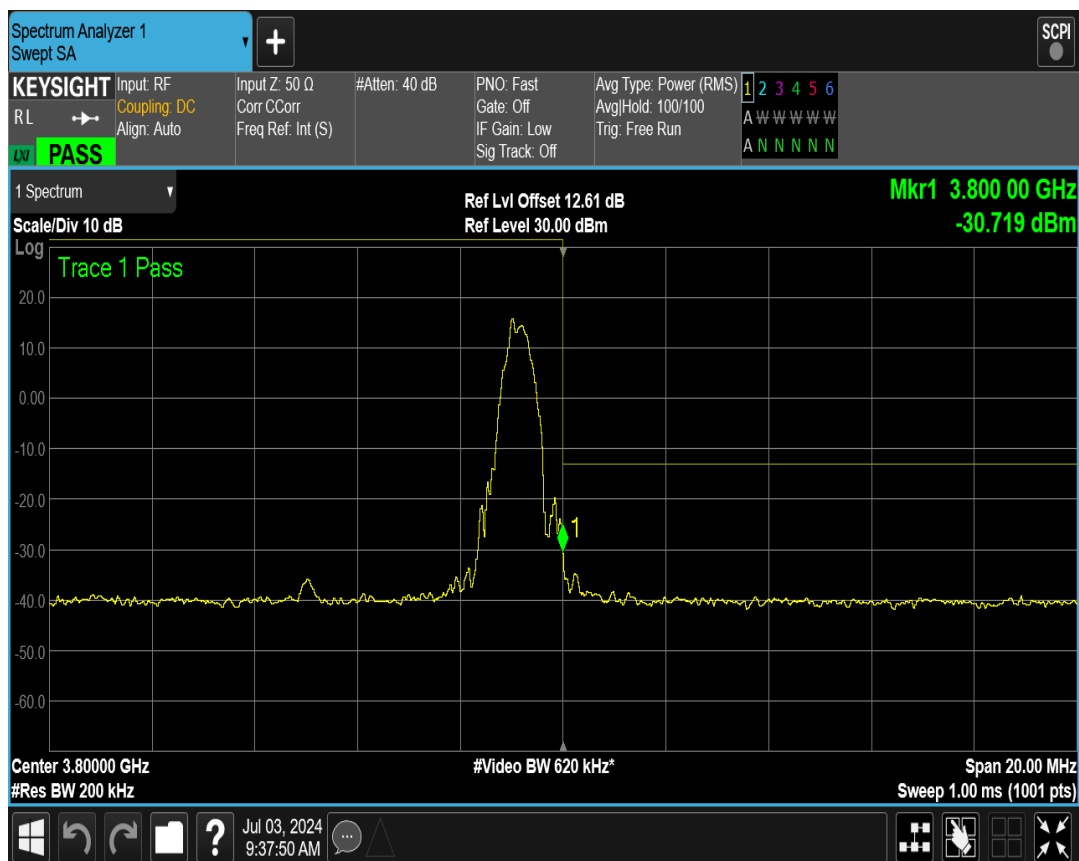
n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=620334 RB=24@0



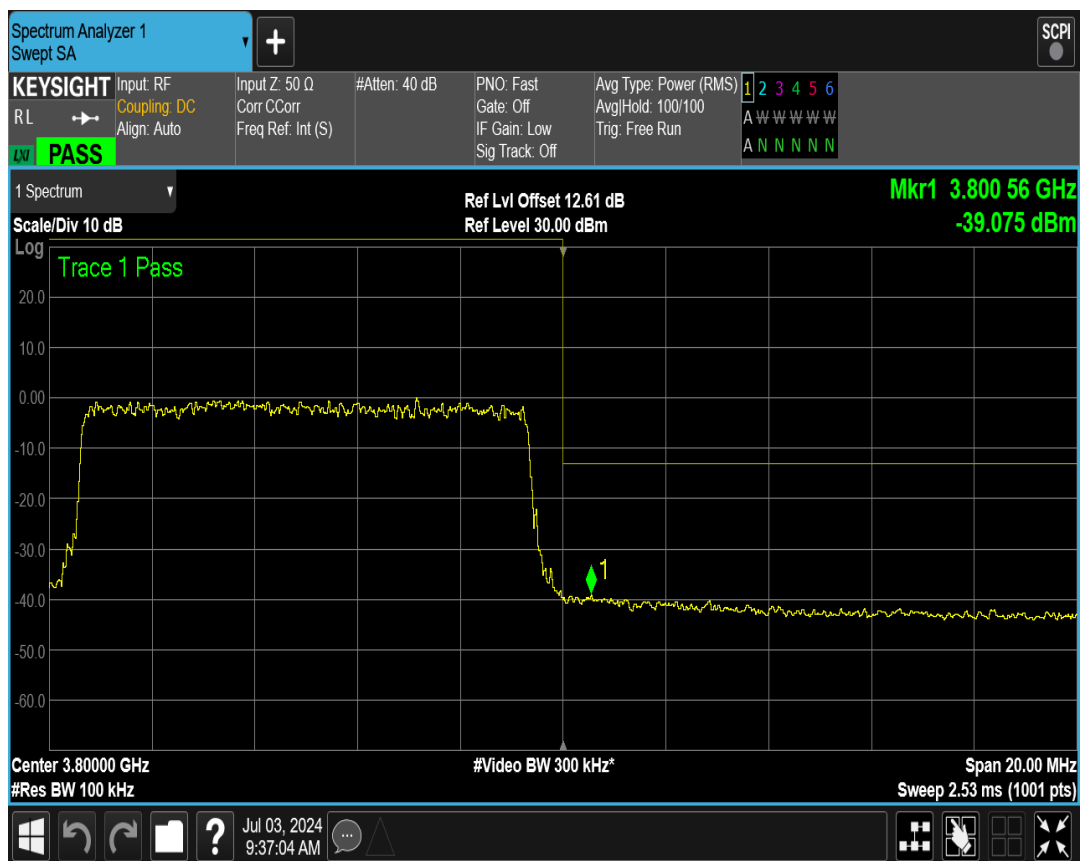
n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=653000 RB=1@0



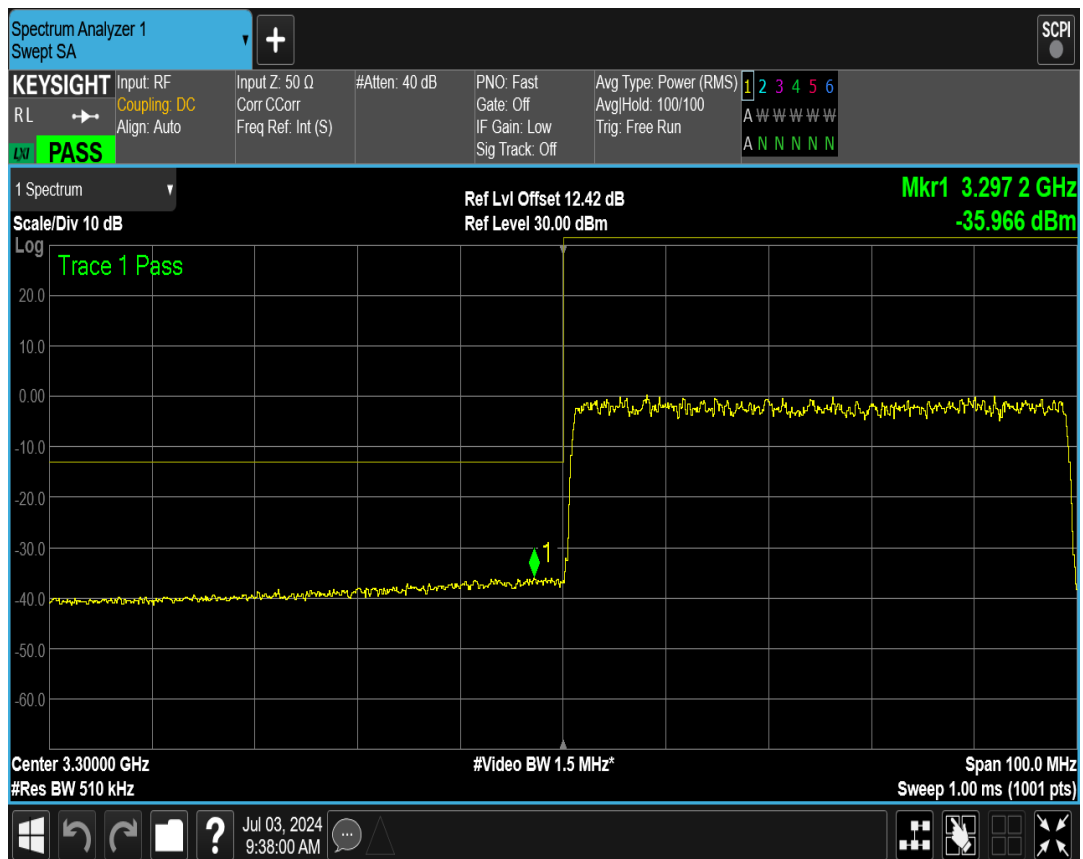
n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=653000 RB=1@23



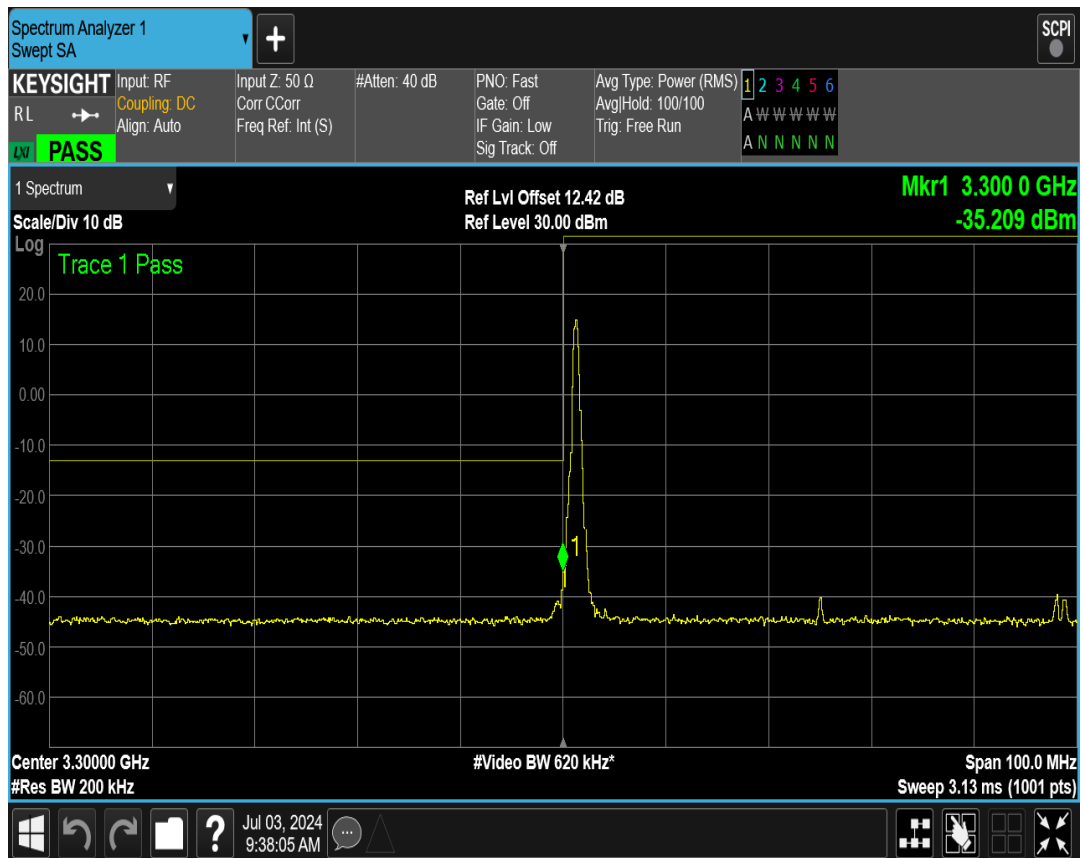
n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=653000 RB=24@0



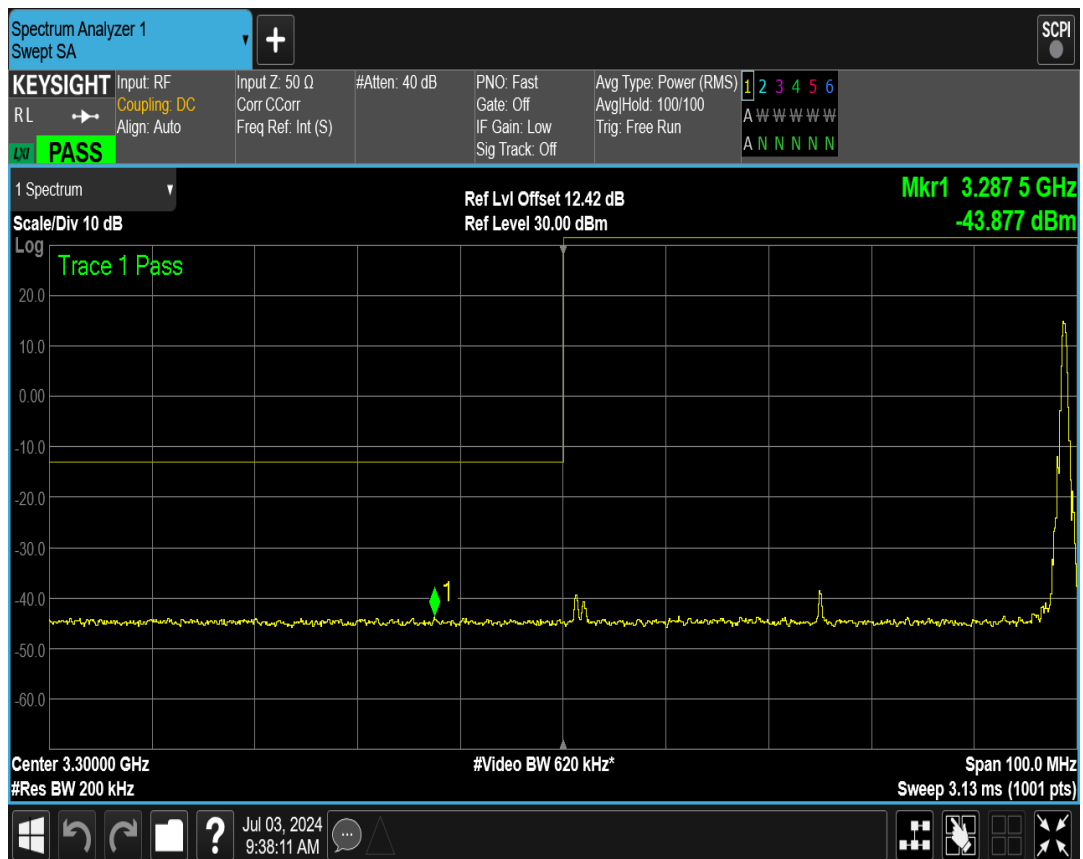
n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=621668 RB=133@0



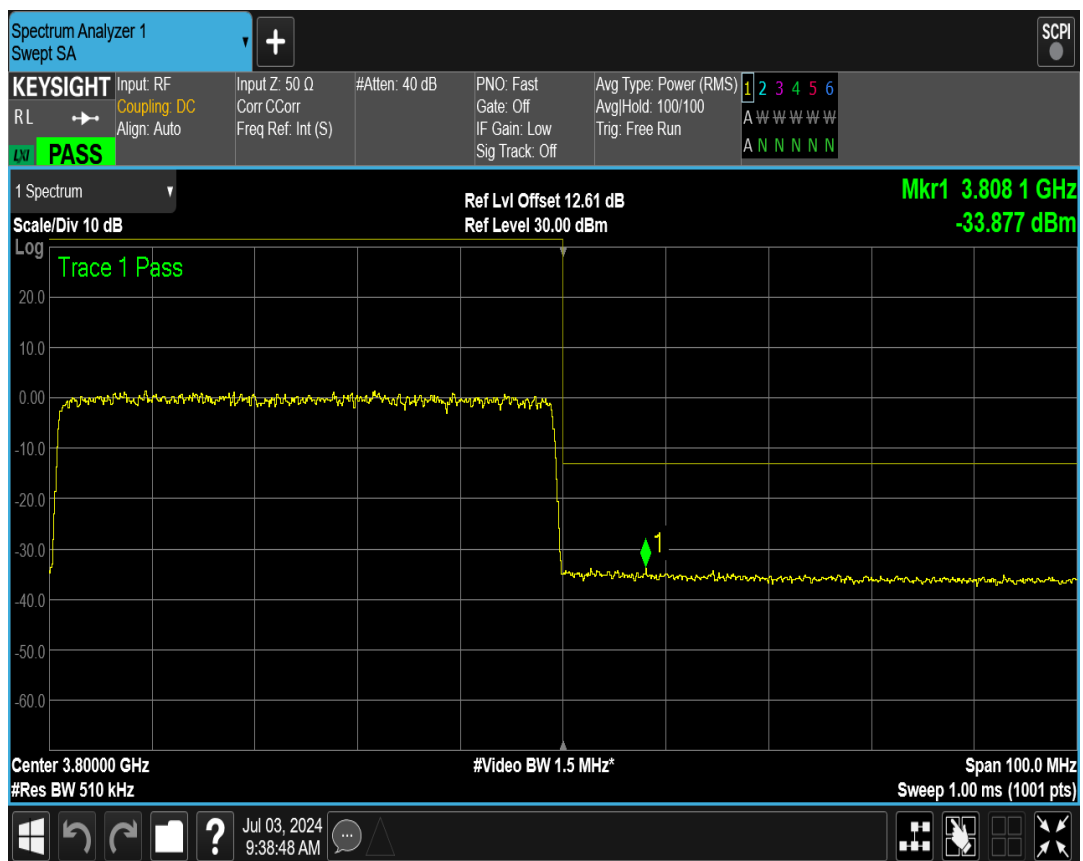
n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=621668 RB=1@0



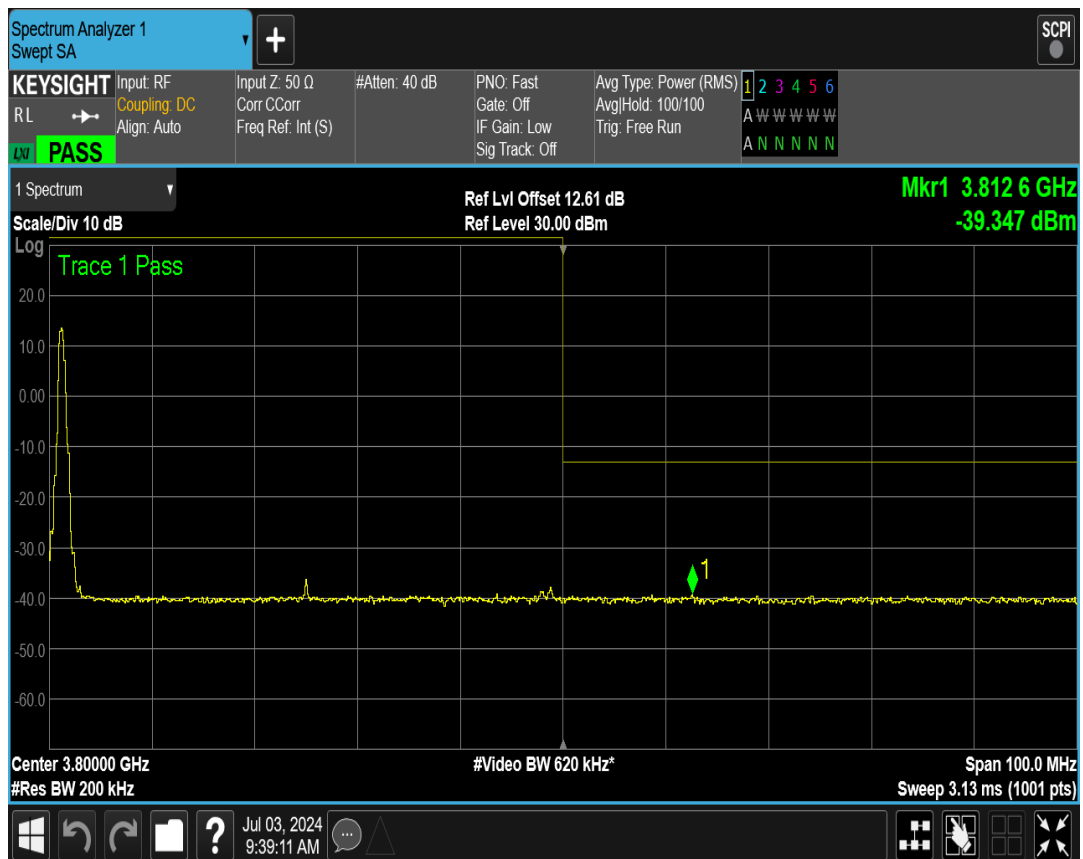
n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=621668 RB=1@132



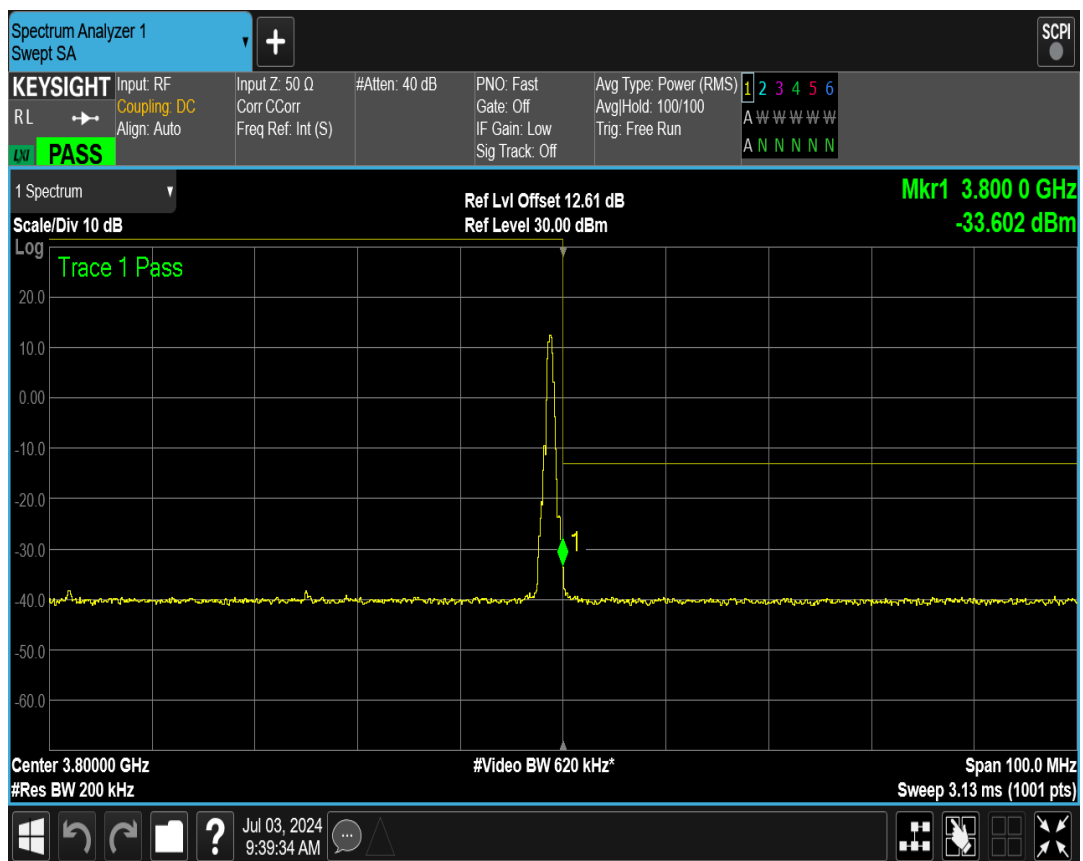
n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=651666 RB=133@0



n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=651666 RB=1@0



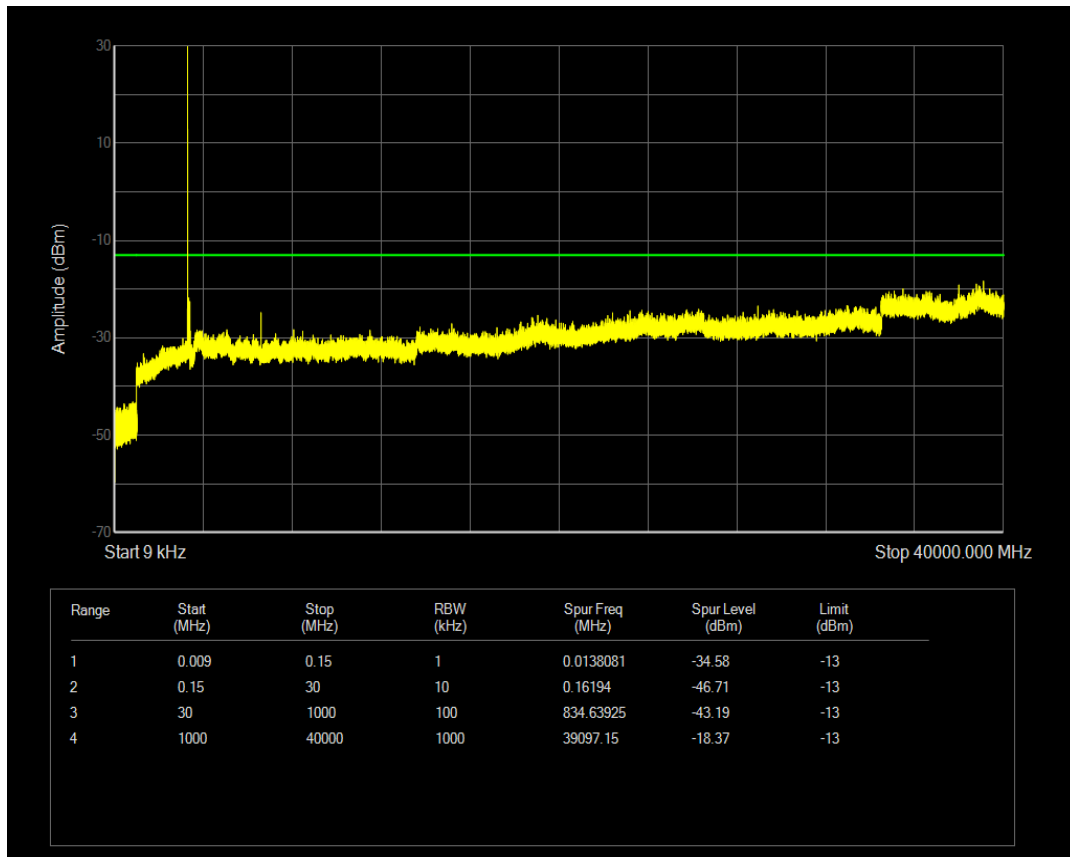
n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=651666 RB=1@132



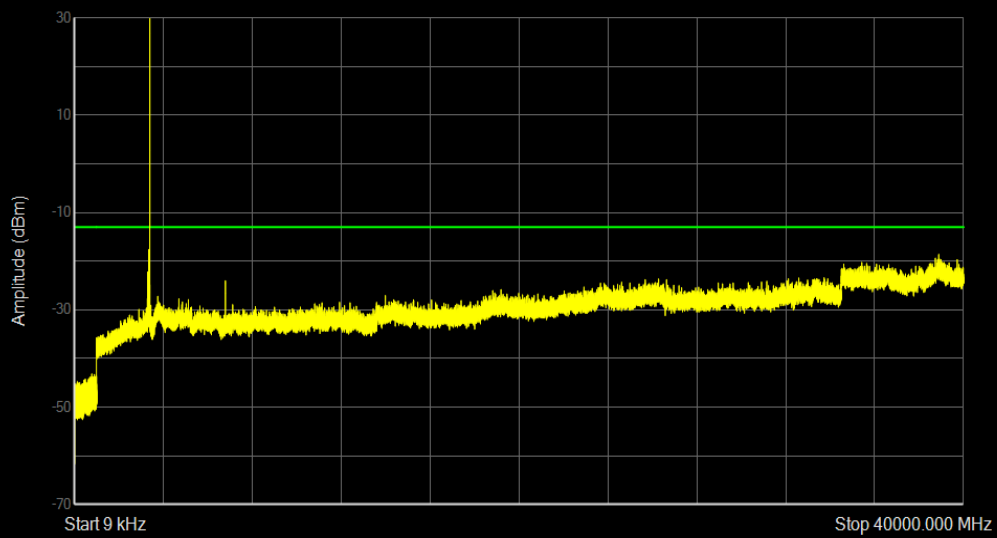
## 6 Out-of-band emissions for EN-DC

| Band | SCS (kHz) | Bandwidth (MHz) | UL Channel | RB Allocation | Modulation | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|------|-----------|-----------------|------------|---------------|------------|-----------------|------------------|-------------|---------|
| n78  | 30        | 10              | 620334     | 24@0          | CP_QPSK    | 38839.75        | -18.95           | -13         | PASS    |
| n78  | 30        | 10              | 620334     | 1@0           | CP_QPSK    | 39033.78        | -18.32           | -13         | PASS    |
| n78  | 30        | 10              | 620334     | 1@23          | CP_QPSK    | 38821.23        | -17.98           | -13         | PASS    |
| n78  | 30        | 10              | 653000     | 24@0          | CP_QPSK    | 38961.63        | -19.13           | -13         | PASS    |
| n78  | 30        | 10              | 653000     | 1@0           | CP_QPSK    | 39020.13        | -18.75           | -13         | PASS    |
| n78  | 30        | 10              | 653000     | 1@23          | CP_QPSK    | 39198.55        | -19.27           | -13         | PASS    |
| n78  | 30        | 50              | 621668     | 133@0         | CP_QPSK    | 38907.03        | -18.70           | -13         | PASS    |
| n78  | 30        | 50              | 621668     | 1@0           | CP_QPSK    | 38895.33        | -18.80           | -13         | PASS    |
| n78  | 30        | 50              | 621668     | 1@132         | CP_QPSK    | 38483.88        | -19.76           | -13         | PASS    |
| n78  | 30        | 50              | 651666     | 133@0         | CP_QPSK    | 38927.50        | -19.52           | -13         | PASS    |
| n78  | 30        | 50              | 651666     | 1@0           | CP_QPSK    | 36557.28        | -18.69           | -13         | PASS    |
| n78  | 30        | 50              | 651666     | 1@132         | CP_QPSK    | 38849.50        | -17.89           | -13         | PASS    |
| n78  | 30        | 100             | 623334     | 273@0         | CP_QPSK    | 38948.95        | -19.23           | -13         | PASS    |
| n78  | 30        | 100             | 623334     | 1@0           | CP_QPSK    | 39097.15        | -18.37           | -13         | PASS    |
| n78  | 30        | 100             | 623334     | 1@272         | CP_QPSK    | 38885.58        | -18.61           | -13         | PASS    |
| n78  | 30        | 100             | 650000     | 273@0         | CP_QPSK    | 38835.85        | -18.46           | -13         | PASS    |
| n78  | 30        | 100             | 650000     | 1@0           | CP_QPSK    | 39114.70        | -19.33           | -13         | PASS    |
| n78  | 30        | 100             | 650000     | 1@272         | CP_QPSK    | 39012.33        | -18.54           | -13         | PASS    |

n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=623334 RB=1@0

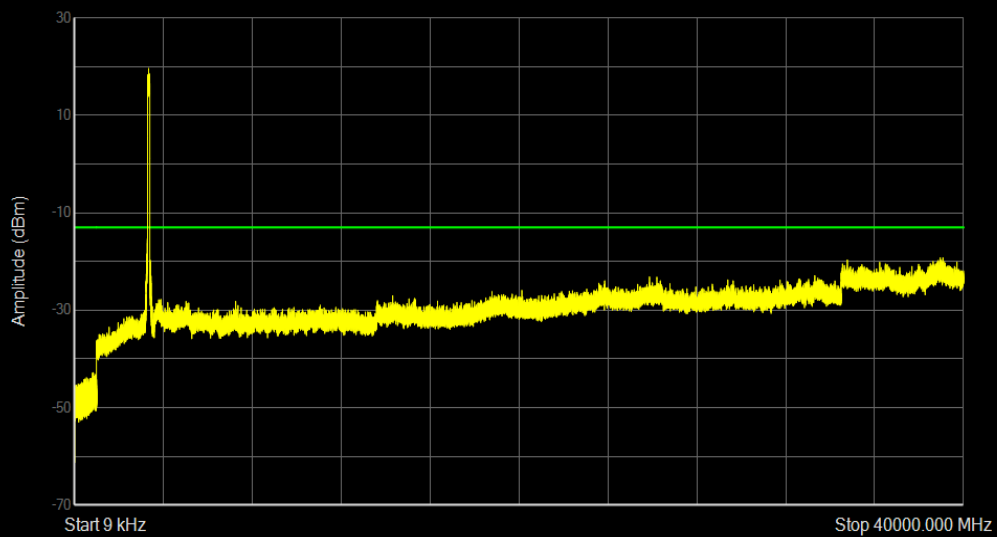


*n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=623334 RB=1@272*

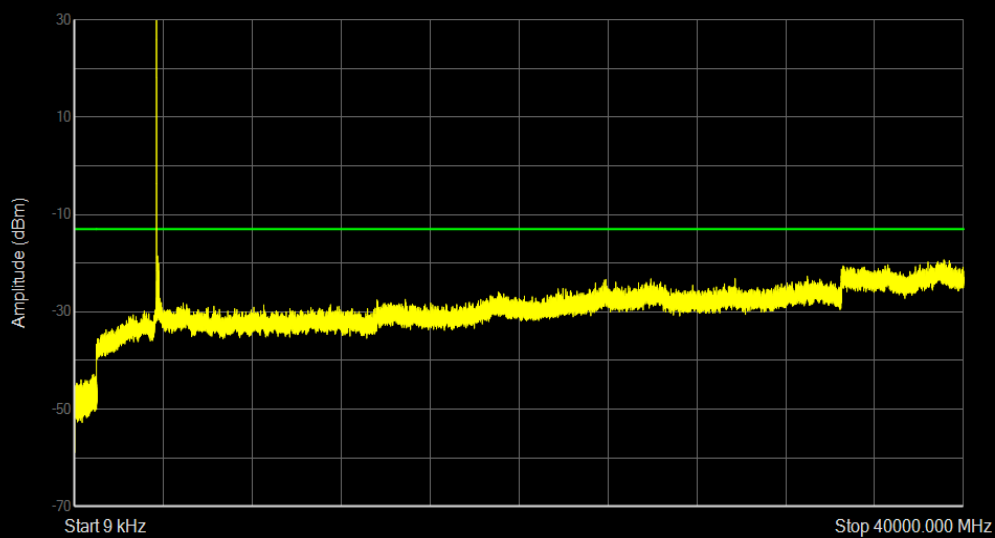


| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.012732975     | -33.68           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15373125      | -45.78           | -13         |
| 3     | 30          | 1000       | 100       | 790.3345        | -43.17           | -13         |
| 4     | 1000        | 40000      | 1000      | 38885.575       | -18.61           | -13         |

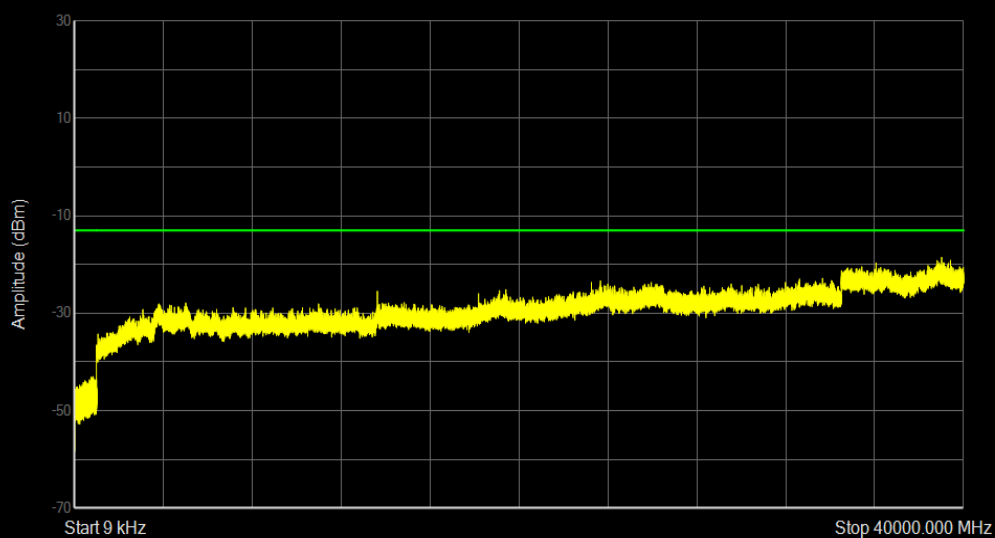
*n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=623334 RB=273@0*



| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.00914805      | -35.93           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15223875      | -44.83           | -13         |
| 3     | 30          | 1000       | 100       | 853.21475       | -42.81           | -13         |
| 4     | 1000        | 40000      | 1000      | 38948.95        | -19.23           | -13         |

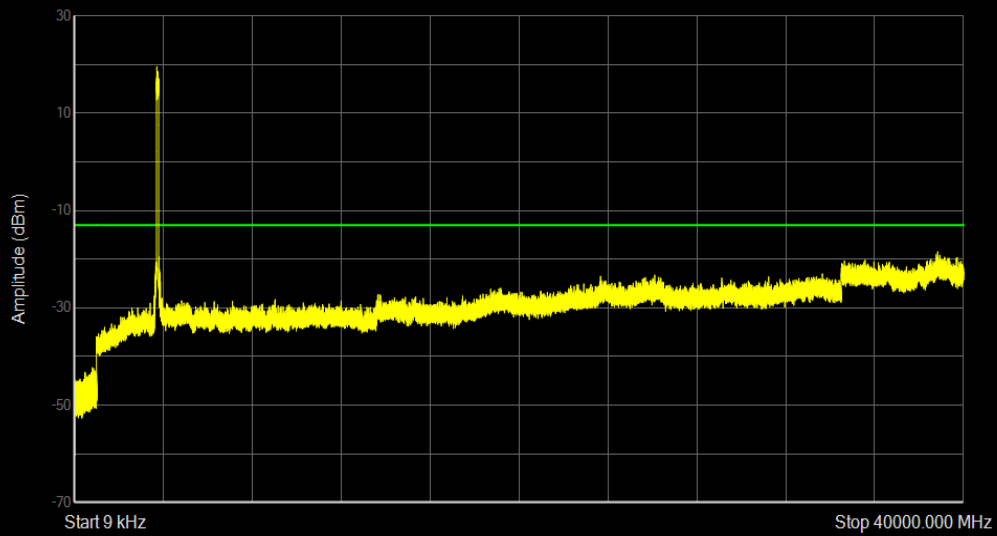
*n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=1@0*

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.013289925     | -35.3            | -13         |
| 2     | 0.15        | 30         | 10        | 0.15522375      | -45.46           | -13         |
| 3     | 30          | 1000       | 100       | 870.7475        | -42.86           | -13         |
| 4     | 1000        | 40000      | 1000      | 39114.7         | -19.33           | -13         |

*n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=1@272*

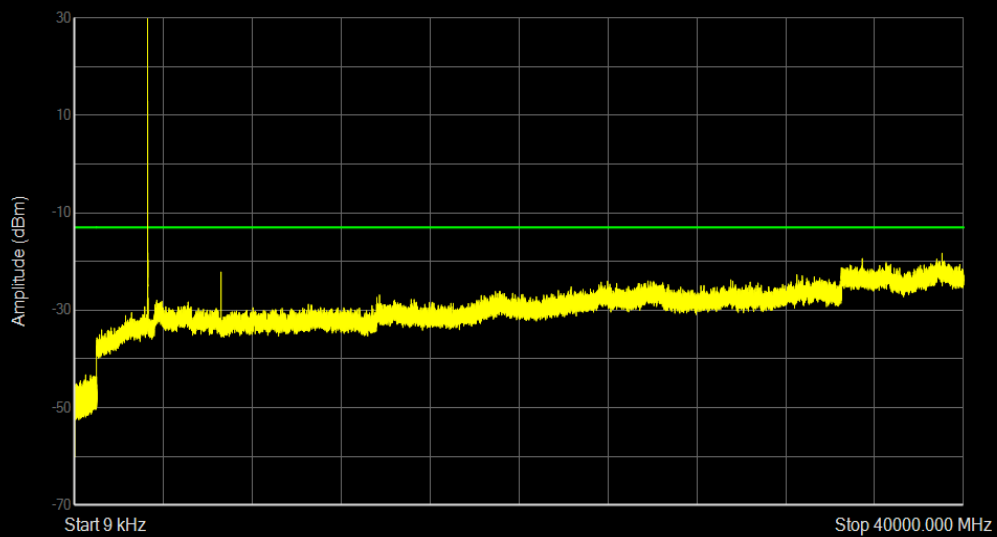
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.01270125      | -34.62           | -13         |
| 2     | 0.15        | 30         | 10        | 0.17388         | -46.09           | -13         |
| 3     | 30          | 1000       | 100       | 841.08975       | -43              | -13         |
| 4     | 1000        | 40000      | 1000      | 39012.325       | -18.54           | -13         |

*n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=273@0*

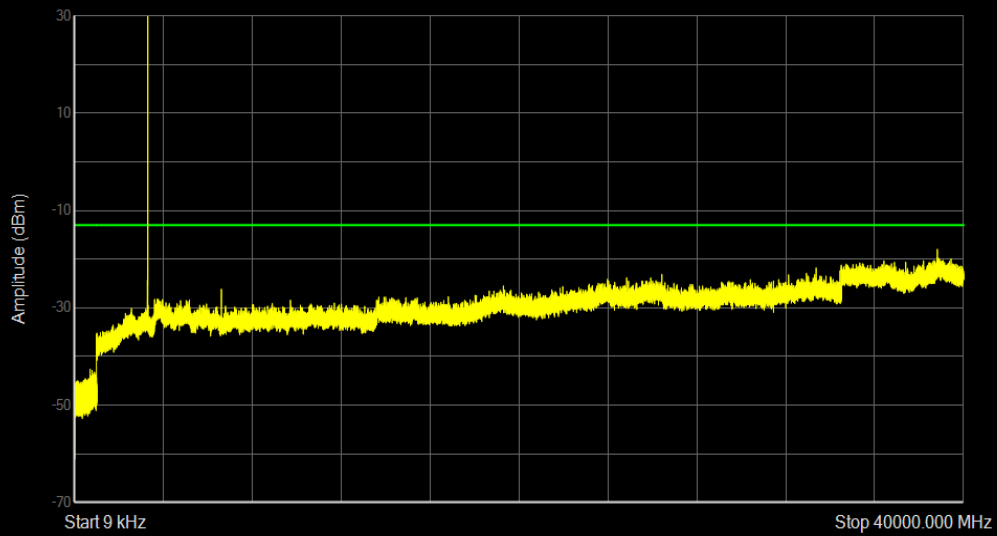


| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.009           | -35.05           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15970125      | -46.89           | -13         |
| 3     | 30          | 1000       | 100       | 813.2265        | -42.29           | -13         |
| 4     | 1000        | 40000      | 1000      | 38835.85        | -18.46           | -13         |

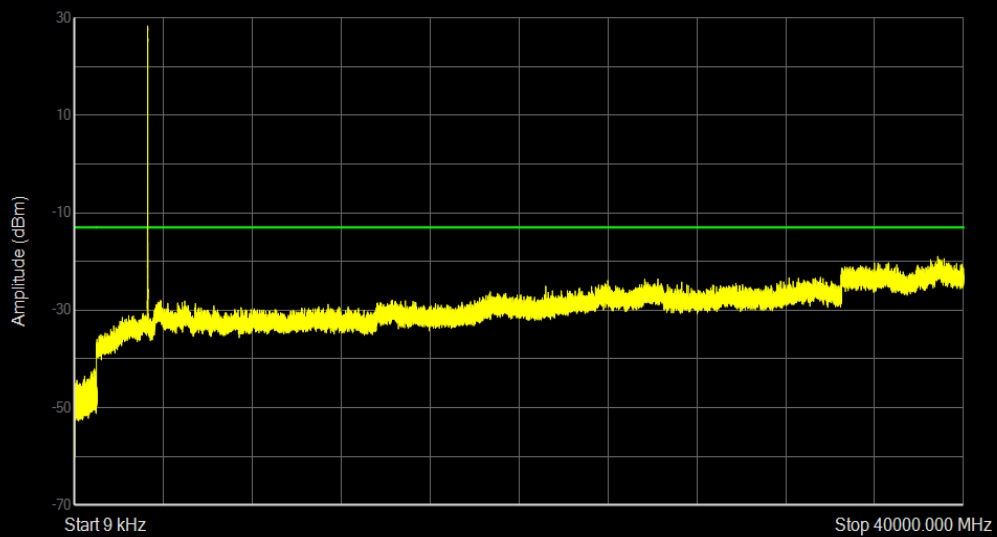
*n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=620334 RB=1@0*



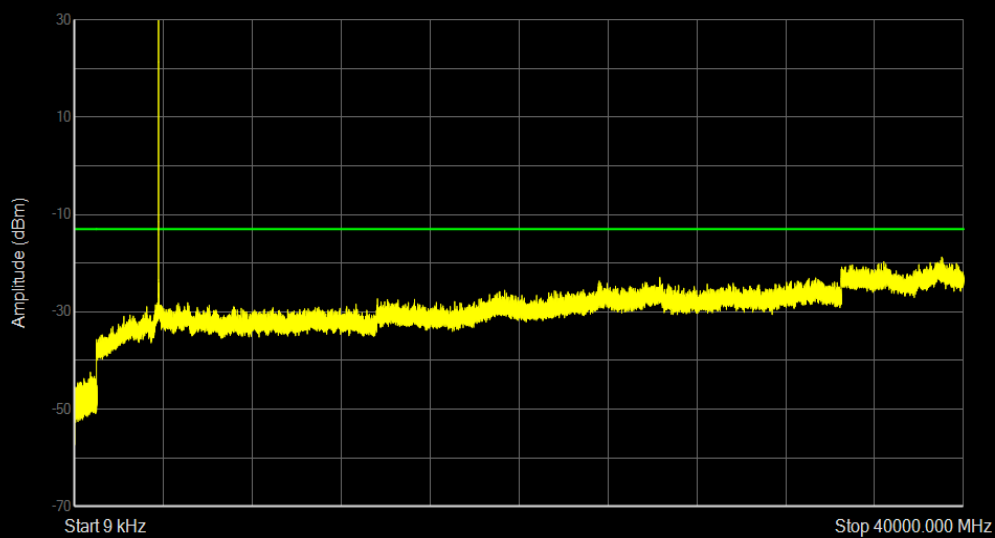
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.015306225     | -34.76           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15970125      | -44.07           | -13         |
| 3     | 30          | 1000       | 100       | 516.91575       | -43.28           | -13         |
| 4     | 1000        | 40000      | 1000      | 39033.775       | -18.32           | -13         |

*n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=620334 RB=1@23*

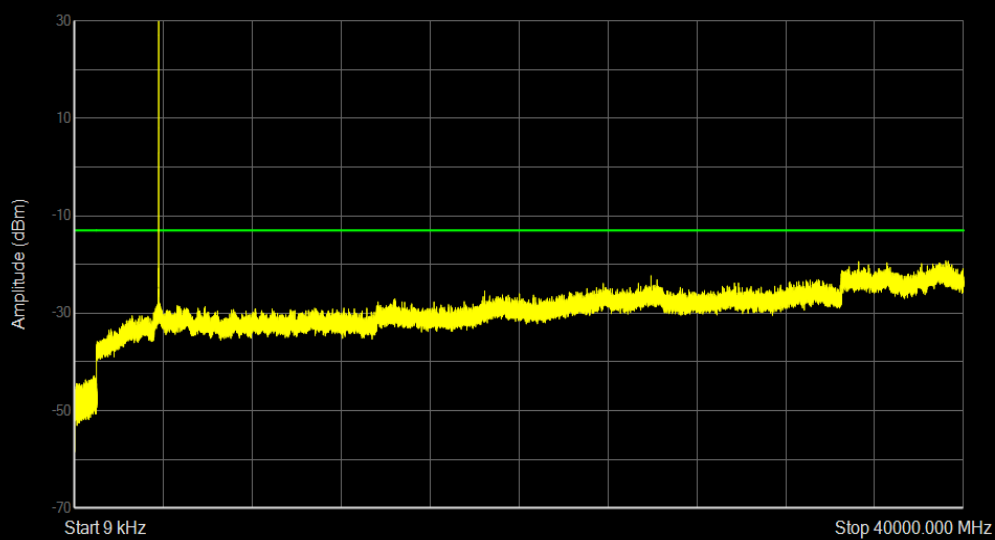
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.012521475     | -34.54           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15            | -47.13           | -13         |
| 3     | 30          | 1000       | 100       | 714.335         | -42.6            | -13         |
| 4     | 1000        | 40000      | 1000      | 38821.225       | -17.98           | -13         |

*n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=620334 RB=24@0*

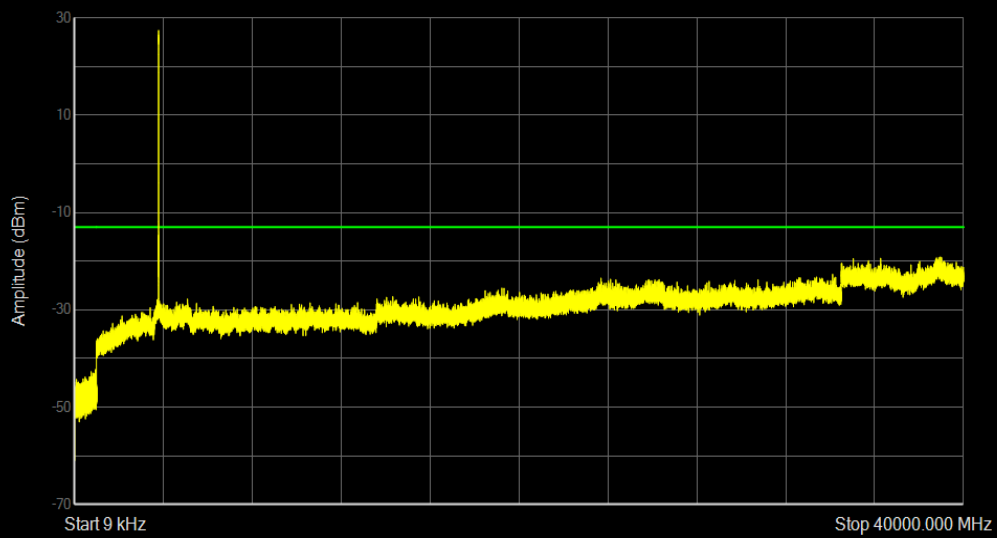
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.01065675      | -32.97           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15373125      | -45.59           | -13         |
| 3     | 30          | 1000       | 100       | 911.56025       | -42.04           | -13         |
| 4     | 1000        | 40000      | 1000      | 38839.75        | -18.95           | -13         |

*n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=653000 RB=1@0*

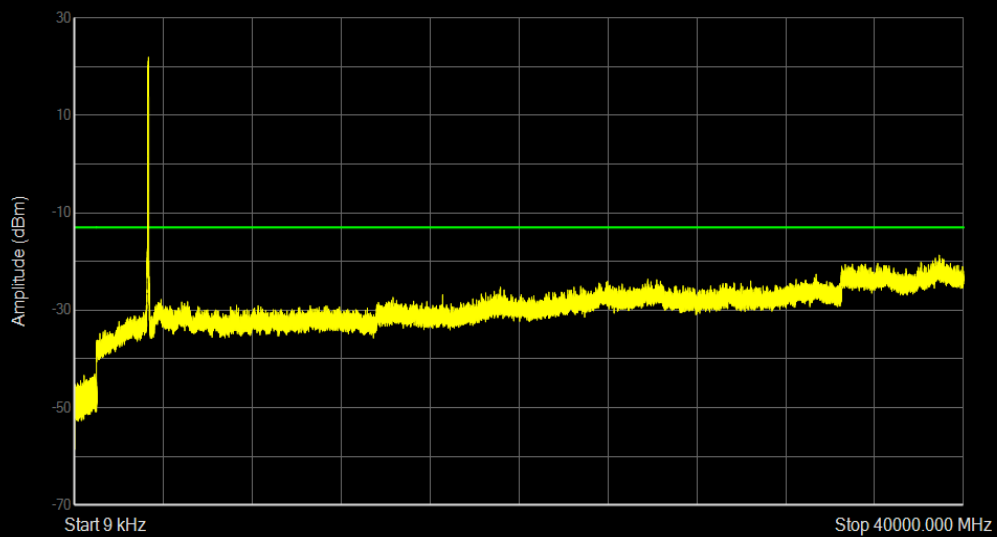
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.009           | -34.53           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15            | -45.69           | -13         |
| 3     | 30          | 1000       | 100       | 725.36875       | -42.41           | -13         |
| 4     | 1000        | 40000      | 1000      | 39020.125       | -18.75           | -13         |

*n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=653000 RB=1@23*

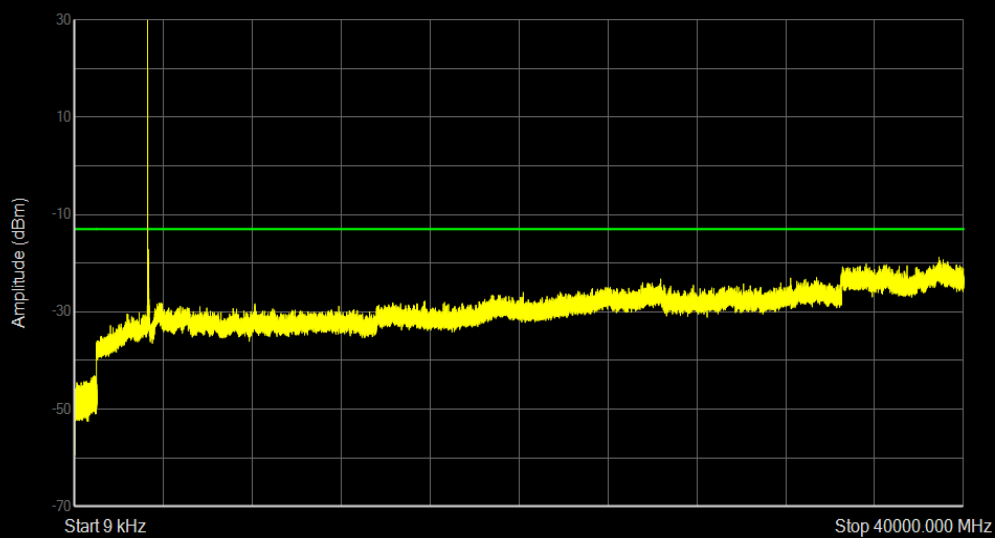
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.012648375     | -34.64           | -13         |
| 2     | 0.15        | 30         | 10        | 0.18582         | -45.82           | -13         |
| 3     | 30          | 1000       | 100       | 881.078         | -42.89           | -13         |
| 4     | 1000        | 40000      | 1000      | 39198.55        | -19.27           | -13         |

*n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=653000 RB=24@0*

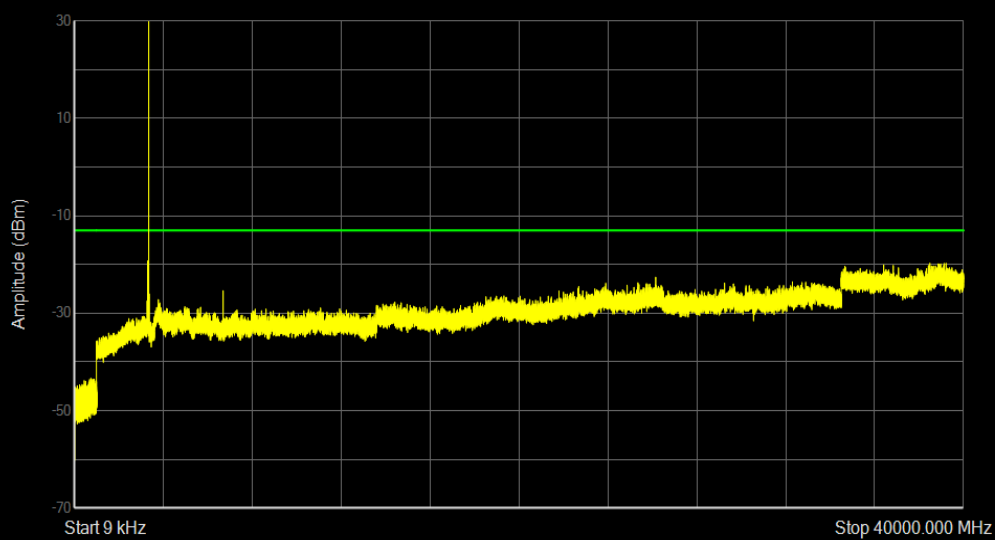
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.009           | -34.54           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15            | -45.93           | -13         |
| 3     | 30          | 1000       | 100       | 955.40425       | -42.29           | -13         |
| 4     | 1000        | 40000      | 1000      | 38961.625       | -19.13           | -13         |

*n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=621668 RB=133@0*

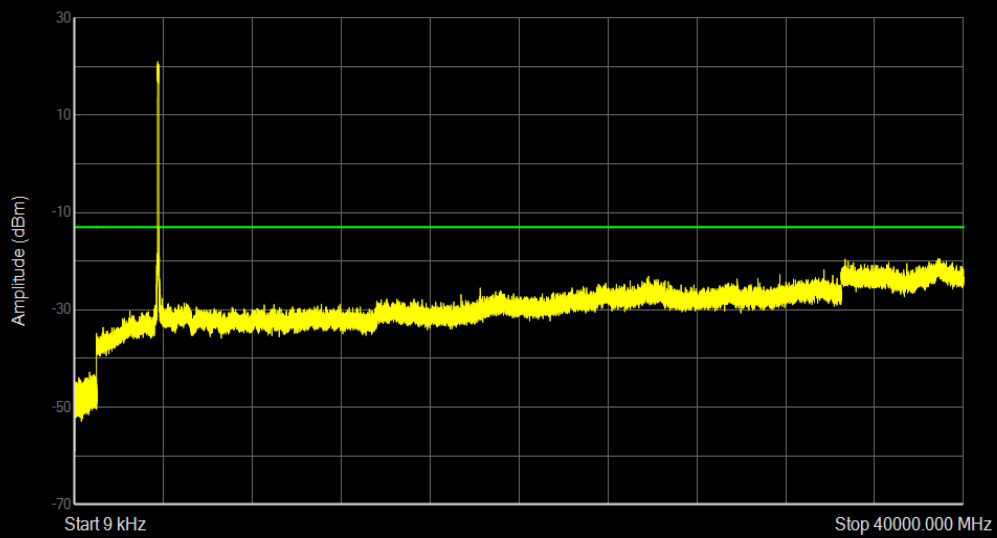
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.012948        | -35.14           | -13         |
| 2     | 0.15        | 30         | 10        | 0.16567125      | -45.64           | -13         |
| 3     | 30          | 1000       | 100       | 924.631         | -43.09           | -13         |
| 4     | 1000        | 40000      | 1000      | 38907.025       | -18.7            | -13         |

*n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=621668 RB=1@0*

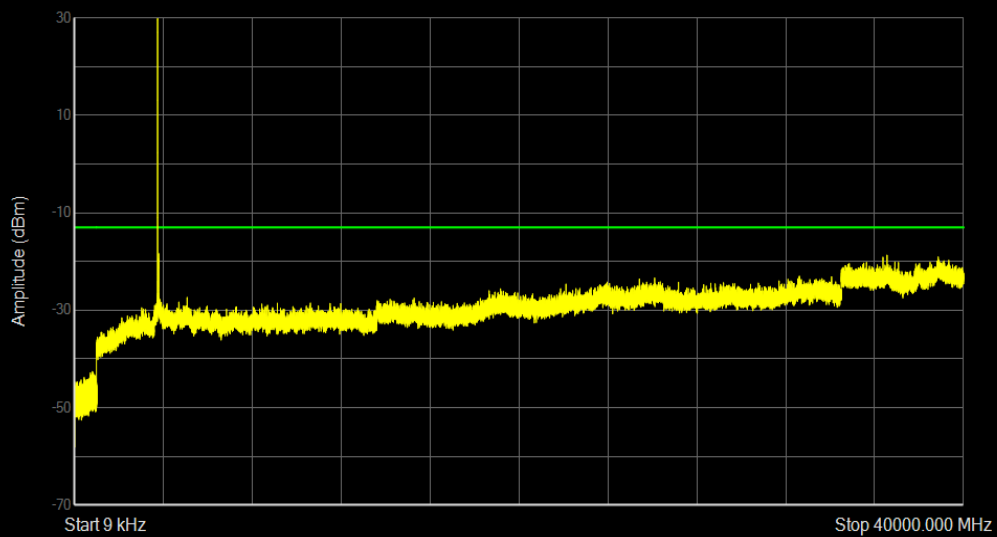
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.009348975     | -35.05           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15522375      | -46.38           | -13         |
| 3     | 30          | 1000       | 100       | 903.9215        | -43.15           | -13         |
| 4     | 1000        | 40000      | 1000      | 38895.325       | -18.8            | -13         |

*n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=621668 RB=1@132*

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.0167691       | -33.87           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15820875      | -45.14           | -13         |
| 3     | 30          | 1000       | 100       | 751.7285        | -43.38           | -13         |
| 4     | 1000        | 40000      | 1000      | 38483.875       | -19.76           | -13         |

*n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=651666 RB=133@0*

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.009384225     | -35.56           | -13         |
| 2     | 0.15        | 30         | 10        | 0.164925        | -46.95           | -13         |
| 3     | 30          | 1000       | 100       | 694.76525       | -42.84           | -13         |
| 4     | 1000        | 40000      | 1000      | 38927.5         | -19.52           | -13         |

*n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=651666 RB=1@0*

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.010279575     | -35.89           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15223875      | -45.77           | -13         |
| 3     | 30          | 1000       | 100       | 821.908         | -42.58           | -13         |
| 4     | 1000        | 40000      | 1000      | 36557.275       | -18.69           | -13         |

n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=651666 RB=1@132

