

# TABLE OF CONTENTS

**1 Conducted output power for EN-DC .....2**

**2 Frequency stability for EN-DC .....4**

**3 Peak-to-Average Ratio for EN-DC.....6**

**4 Occupied bandwidth for EN-DC.....38**

**5 Band edge for EN-DC .....49**

**6 Out-of-band emissions for EN-DC .....59**

## 1 Conducted output power for EN-DC

| Band  | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Power<br>(dBm) | Low<br>Limit<br>(dBm) | high<br>Limit<br>(dBm) | Verdict |
|-------|--------------|--------------------|---------------|------------------|------------|----------------|-----------------------|------------------------|---------|
| Band4 | 15           | 5                  | 19975         | 1@0              | QPSK       | 18.90          |                       |                        |         |
| n7    | 15           | 5                  | 500500        | 1@0              | DFT_BPSK   | 20.77          |                       |                        |         |
| Sum   | 15           |                    |               |                  |            | 22.94          | 19                    | 26                     | PASS    |
| Band4 | 15           | 5                  | 20175         | 8@0              | QPSK       | 18.97          |                       |                        |         |
| n7    | 15           | 5                  | 507000        | 12@6             | DFT_BPSK   | 20.72          |                       |                        |         |
| Sum   | 15           |                    |               |                  |            | 22.94          | 19                    | 26                     | PASS    |
| Band4 | 15           | 5                  | 20175         | 8@0              | QPSK       | 19.03          |                       |                        |         |
| n7    | 15           | 5                  | 507000        | 12@6             | DFT_QPSK   | 20.73          |                       |                        |         |
| Sum   | 15           |                    |               |                  |            | 22.97          | 19                    | 26                     | PASS    |
| Band4 | 15           | 5                  | 20375         | 1@17             | QPSK       | 18.73          |                       |                        |         |
| n7    | 15           | 5                  | 513500        | 1@24             | DFT_BPSK   | 20.69          |                       |                        |         |
| Sum   | 15           |                    |               |                  |            | 22.82          | 19                    | 26                     | PASS    |
| Band4 | 15           | 5                  | 20375         | 8@17             | QPSK       | 18.98          |                       |                        |         |
| n7    | 15           | 5                  | 513500        | 12@6             | DFT_BPSK   | 20.72          |                       |                        |         |
| Sum   | 15           |                    |               |                  |            | 22.94          | 19                    | 26                     | PASS    |
| Band4 | 15           | 5                  | 20375         | 1@17             | QPSK       | 18.75          |                       |                        |         |
| n7    | 15           | 5                  | 513500        | 1@24             | DFT_QPSK   | 20.93          |                       |                        |         |
| Sum   | 15           |                    |               |                  |            | 22.98          | 19                    | 26                     | PASS    |
| Band4 | 15           | 5                  | 20375         | 8@17             | QPSK       | 19.00          |                       |                        |         |
| n7    | 15           | 5                  | 513500        | 12@6             | DFT_QPSK   | 20.73          |                       |                        |         |
| Sum   | 15           |                    |               |                  |            | 22.96          | 19                    | 26                     | PASS    |
| Band4 | 15           | 20                 | 20050         | 1@0              | QPSK       | 18.82          |                       |                        |         |
| n7    | 15           | 20                 | 502000        | 1@0              | DFT_BPSK   | 20.56          |                       |                        |         |
| Sum   | 15           |                    |               |                  |            | 22.78          | 19                    | 26                     | PASS    |
| Band4 | 15           | 20                 | 20175         | 18@0             | QPSK       | 18.97          |                       |                        |         |
| n7    | 15           | 20                 | 507000        | 50@25            | DFT_BPSK   | 20.74          |                       |                        |         |
| Sum   | 15           |                    |               |                  |            | 22.95          | 19                    | 26                     | PASS    |
| Band4 | 15           | 20                 | 20175         | 18@0             | QPSK       | 18.94          |                       |                        |         |
| n7    | 15           | 20                 | 507000        | 50@25            | DFT_QPSK   | 20.73          |                       |                        |         |
| Sum   | 15           |                    |               |                  |            | 22.93          | 19                    | 26                     | PASS    |
| Band4 | 15           | 20                 | 20300         | 1@72             | QPSK       | 19.13          |                       |                        |         |
| n7    | 15           | 20                 | 512000        | 1@105            | DFT_BPSK   | 20.53          |                       |                        |         |
| Sum   | 15           |                    |               |                  |            | 22.89          | 19                    | 26                     | PASS    |
| Band4 | 15           | 20                 | 20300         | 18@72            | QPSK       | 19.06          |                       |                        |         |
| n7    | 15           | 20                 | 512000        | 50@25            | DFT_BPSK   | 20.68          |                       |                        |         |
| Sum   | 15           |                    |               |                  |            | 22.95          | 19                    | 26                     | PASS    |
| Band4 | 15           | 20                 | 20300         | 1@72             | QPSK       | 19.11          |                       |                        |         |
| n7    | 15           | 20                 | 512000        | 1@105            | DFT_QPSK   | 20.67          |                       |                        |         |

|       |    |    |        |       |          |       |    |    |      |
|-------|----|----|--------|-------|----------|-------|----|----|------|
| Sum   | 15 |    |        |       |          | 22.96 | 19 | 26 | PASS |
| Band4 | 15 | 20 | 20300  | 18@72 | QPSK     | 19.09 |    |    |      |
| n7    | 15 | 20 | 512000 | 50@25 | DFT_QPSK | 20.69 |    |    |      |
| Sum   | 15 |    |        |       |          | 22.97 | 19 | 26 | PASS |

## 2 Frequency stability for EN-DC

| Band | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Result(Hz) | Result<br>(ppm) | Low<br>Limit<br>(ppm) | high<br>Limit<br>(ppm) | Verdict |
|------|--------------|--------------------|---------------|------------------|------------|------------|-----------------|-----------------------|------------------------|---------|
| n7   | 15           | 5                  | 500500        | 12@6             | DFT_BPSK   | -11.16     | -0.00446        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 5                  | 500500        | 1@1              | DFT_BPSK   | -11.02     | -0.00440        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 5                  | 500500        | 1@23             | DFT_BPSK   | -11.89     | -0.00475        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 5                  | 500500        | 12@6             | DFT_QPSK   | -8.54      | -0.00341        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 5                  | 500500        | 1@1              | DFT_QPSK   | -9.45      | -0.00378        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 5                  | 500500        | 1@23             | DFT_QPSK   | -9.90      | -0.00396        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 5                  | 507000        | 12@6             | DFT_BPSK   | -4.61      | -0.00182        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 5                  | 507000        | 1@1              | DFT_BPSK   | -3.81      | -0.00150        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 5                  | 507000        | 1@23             | DFT_BPSK   | -3.99      | -0.00157        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 5                  | 507000        | 12@6             | DFT_QPSK   | -3.57      | -0.00141        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 5                  | 507000        | 1@1              | DFT_QPSK   | -3.91      | -0.00154        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 5                  | 507000        | 1@23             | DFT_QPSK   | -3.79      | -0.00150        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 5                  | 513500        | 12@6             | DFT_BPSK   | -4.92      | -0.00192        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 5                  | 513500        | 1@1              | DFT_BPSK   | -8.69      | -0.00338        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 5                  | 513500        | 1@23             | DFT_BPSK   | -8.29      | -0.00323        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 5                  | 513500        | 12@6             | DFT_QPSK   | -8.22      | -0.00320        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 5                  | 513500        | 1@1              | DFT_QPSK   | -8.86      | -0.00345        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 5                  | 513500        | 1@23             | DFT_QPSK   | -8.02      | -0.00312        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 15                 | 501500        | 36@18            | DFT_BPSK   | -1.97      | -0.00079        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 15                 | 501500        | 1@1              | DFT_BPSK   | -2.35      | -0.00094        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 15                 | 501500        | 1@77             | DFT_BPSK   | -0.38      | -0.00015        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 15                 | 501500        | 36@18            | DFT_QPSK   | -1.72      | -0.00069        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 15                 | 501500        | 1@1              | DFT_QPSK   | -0.62      | -0.00025        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 15                 | 501500        | 1@77             | DFT_QPSK   | -1.50      | -0.00060        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 15                 | 507000        | 36@18            | DFT_BPSK   | -1.03      | -0.00041        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 15                 | 507000        | 1@1              | DFT_BPSK   | -1.11      | -0.00044        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 15                 | 507000        | 1@77             | DFT_BPSK   | -1.41      | -0.00056        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 15                 | 507000        | 36@18            | DFT_QPSK   | -1.82      | -0.00072        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 15                 | 507000        | 1@1              | DFT_QPSK   | -2.00      | -0.00079        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 15                 | 507000        | 1@77             | DFT_QPSK   | -2.08      | -0.00082        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 15                 | 512500        | 36@18            | DFT_BPSK   | -7.71      | -0.00301        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 15                 | 512500        | 1@1              | DFT_BPSK   | -7.27      | -0.00284        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 15                 | 512500        | 1@77             | DFT_BPSK   | -9.14      | -0.00357        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 15                 | 512500        | 36@18            | DFT_QPSK   | -6.79      | -0.00265        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 15                 | 512500        | 1@1              | DFT_QPSK   | -9.55      | -0.00373        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 15                 | 512500        | 1@77             | DFT_QPSK   | -9.55      | -0.00373        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 20                 | 502000        | 50@25            | DFT_BPSK   | -8.22      | -0.00327        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 20                 | 502000        | 1@1              | DFT_BPSK   | -5.67      | -0.00226        | -2.5                  | 2.5                    | PASS    |
| n7   | 15           | 20                 | 502000        | 1@104            | DFT_BPSK   | -5.28      | -0.00210        | -2.5                  | 2.5                    | PASS    |

|    |    |    |        |       |          |       |          |      |     |      |
|----|----|----|--------|-------|----------|-------|----------|------|-----|------|
| n7 | 15 | 20 | 502000 | 50@25 | DFT_QPSK | -3.13 | -0.00125 | -2.5 | 2.5 | PASS |
| n7 | 15 | 20 | 502000 | 1@1   | DFT_QPSK | -7.47 | -0.00298 | -2.5 | 2.5 | PASS |
| n7 | 15 | 20 | 502000 | 1@104 | DFT_QPSK | -6.76 | -0.00269 | -2.5 | 2.5 | PASS |
| n7 | 15 | 20 | 507000 | 50@25 | DFT_BPSK | -1.92 | -0.00076 | -2.5 | 2.5 | PASS |
| n7 | 15 | 20 | 507000 | 1@1   | DFT_BPSK | -1.00 | -0.00039 | -2.5 | 2.5 | PASS |
| n7 | 15 | 20 | 507000 | 1@104 | DFT_BPSK | -3.15 | -0.00124 | -2.5 | 2.5 | PASS |
| n7 | 15 | 20 | 507000 | 50@25 | DFT_QPSK | -1.85 | -0.00073 | -2.5 | 2.5 | PASS |
| n7 | 15 | 20 | 507000 | 1@1   | DFT_QPSK | -1.40 | -0.00055 | -2.5 | 2.5 | PASS |
| n7 | 15 | 20 | 507000 | 1@104 | DFT_QPSK | -0.89 | -0.00035 | -2.5 | 2.5 | PASS |
| n7 | 15 | 20 | 512000 | 50@25 | DFT_BPSK | -1.80 | -0.00070 | -2.5 | 2.5 | PASS |
| n7 | 15 | 20 | 512000 | 1@1   | DFT_BPSK | -5.93 | -0.00232 | -2.5 | 2.5 | PASS |
| n7 | 15 | 20 | 512000 | 1@104 | DFT_BPSK | -6.08 | -0.00238 | -2.5 | 2.5 | PASS |
| n7 | 15 | 20 | 512000 | 50@25 | DFT_QPSK | -4.28 | -0.00167 | -2.5 | 2.5 | PASS |
| n7 | 15 | 20 | 512000 | 1@1   | DFT_QPSK | -4.53 | -0.00177 | -2.5 | 2.5 | PASS |
| n7 | 15 | 20 | 512000 | 1@104 | DFT_QPSK | -3.91 | -0.00153 | -2.5 | 2.5 | PASS |

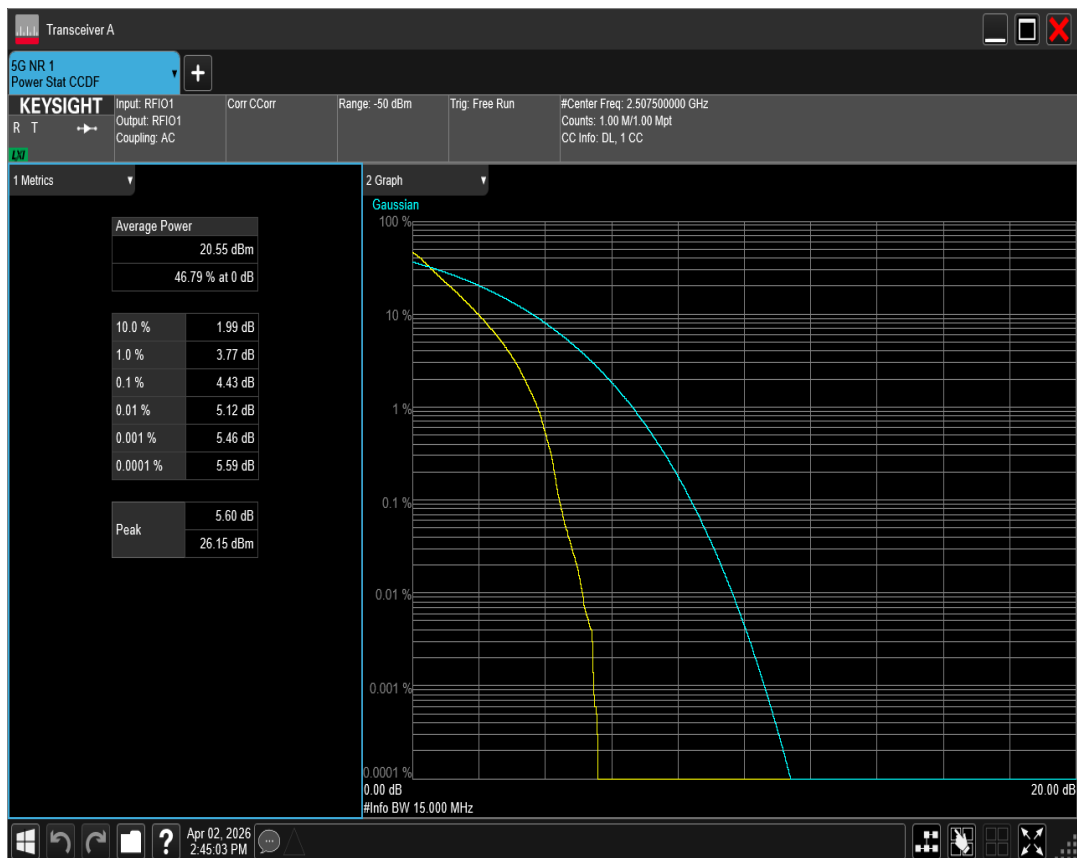
Note: (Voltage: 3.92V, Temperature: 25°C) only reflect the worst mode.

### 3 Peak-to-Average Ratio for EN-DC

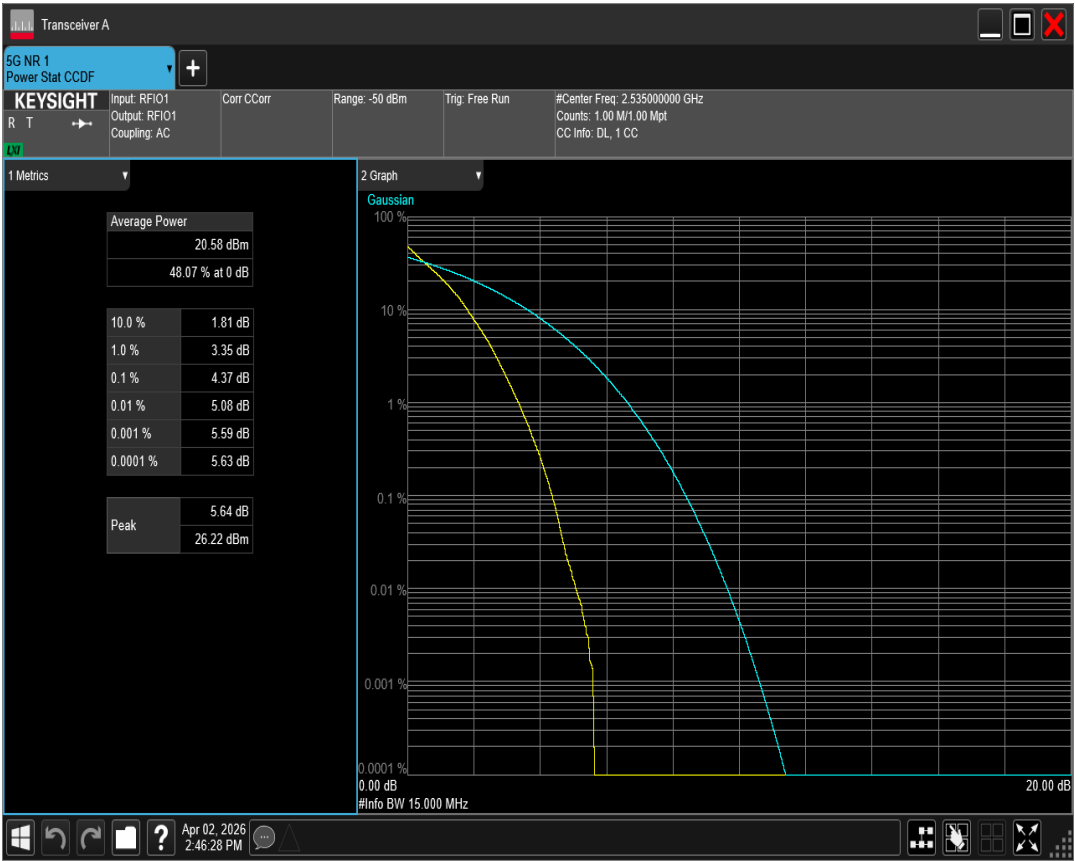
| <i>Band</i> | <i>SCS<br/>(kHz)</i> | <i>Bandwidth<br/>(MHz)</i> | <i>UL<br/>Channel</i> | <i>RB<br/>Allocation</i> | <i>Modulation</i> | <i>Result<br/>(dB)</i> | <i>high<br/>Limit<br/>(dB)</i> | <i>Verdict</i> |
|-------------|----------------------|----------------------------|-----------------------|--------------------------|-------------------|------------------------|--------------------------------|----------------|
| n7          | 15                   | 5                          | 500500                | 25@0                     | DFT_BPSK          | 4.28                   | 13                             | PASS           |
| n7          | 15                   | 5                          | 500500                | 25@0                     | DFT_QPSK          | 5.47                   | 13                             | PASS           |
| n7          | 15                   | 5                          | 500500                | 25@0                     | DFT_QAM16         | 6.35                   | 13                             | PASS           |
| n7          | 15                   | 5                          | 500500                | 25@0                     | DFT_QAM64         | 6.53                   | 13                             | PASS           |
| n7          | 15                   | 5                          | 500500                | 25@0                     | DFT_QAM256        | 6.71                   | 13                             | PASS           |
| n7          | 15                   | 5                          | 507000                | 25@0                     | DFT_BPSK          | 4.30                   | 13                             | PASS           |
| n7          | 15                   | 5                          | 507000                | 25@0                     | DFT_QPSK          | 5.68                   | 13                             | PASS           |
| n7          | 15                   | 5                          | 507000                | 25@0                     | DFT_QAM16         | 6.29                   | 13                             | PASS           |
| n7          | 15                   | 5                          | 507000                | 25@0                     | DFT_QAM64         | 6.64                   | 13                             | PASS           |
| n7          | 15                   | 5                          | 507000                | 25@0                     | DFT_QAM256        | 6.82                   | 13                             | PASS           |
| n7          | 15                   | 5                          | 513500                | 25@0                     | DFT_BPSK          | 4.83                   | 13                             | PASS           |
| n7          | 15                   | 5                          | 513500                | 25@0                     | DFT_QPSK          | 5.63                   | 13                             | PASS           |
| n7          | 15                   | 5                          | 513500                | 25@0                     | DFT_QAM16         | 6.03                   | 13                             | PASS           |
| n7          | 15                   | 5                          | 513500                | 25@0                     | DFT_QAM64         | 6.31                   | 13                             | PASS           |
| n7          | 15                   | 5                          | 513500                | 25@0                     | DFT_QAM256        | 6.59                   | 13                             | PASS           |
| n7          | 15                   | 10                         | 501000                | 50@0                     | DFT_BPSK          | 4.69                   | 13                             | PASS           |
| n7          | 15                   | 10                         | 501000                | 50@0                     | DFT_QPSK          | 5.44                   | 13                             | PASS           |
| n7          | 15                   | 10                         | 501000                | 50@0                     | DFT_QAM16         | 6.23                   | 13                             | PASS           |
| n7          | 15                   | 10                         | 501000                | 50@0                     | DFT_QAM64         | 6.54                   | 13                             | PASS           |
| n7          | 15                   | 10                         | 501000                | 50@0                     | DFT_QAM256        | 6.60                   | 13                             | PASS           |
| n7          | 15                   | 10                         | 507000                | 50@0                     | DFT_BPSK          | 4.39                   | 13                             | PASS           |
| n7          | 15                   | 10                         | 507000                | 50@0                     | DFT_QPSK          | 5.54                   | 13                             | PASS           |
| n7          | 15                   | 10                         | 507000                | 50@0                     | DFT_QAM16         | 6.32                   | 13                             | PASS           |
| n7          | 15                   | 10                         | 507000                | 50@0                     | DFT_QAM64         | 6.50                   | 13                             | PASS           |
| n7          | 15                   | 10                         | 507000                | 50@0                     | DFT_QAM256        | 6.60                   | 13                             | PASS           |
| n7          | 15                   | 10                         | 513000                | 50@0                     | DFT_BPSK          | 5.46                   | 13                             | PASS           |
| n7          | 15                   | 10                         | 513000                | 50@0                     | DFT_QPSK          | 5.67                   | 13                             | PASS           |
| n7          | 15                   | 10                         | 513000                | 50@0                     | DFT_QAM16         | 6.38                   | 13                             | PASS           |
| n7          | 15                   | 10                         | 513000                | 50@0                     | DFT_QAM64         | 6.57                   | 13                             | PASS           |
| n7          | 15                   | 10                         | 513000                | 50@0                     | DFT_QAM256        | 6.59                   | 13                             | PASS           |
| n7          | 15                   | 15                         | 501500                | 75@0                     | DFT_BPSK          | 4.43                   | 13                             | PASS           |
| n7          | 15                   | 15                         | 501500                | 75@0                     | DFT_QPSK          | 5.58                   | 13                             | PASS           |
| n7          | 15                   | 15                         | 501500                | 75@0                     | DFT_QAM16         | 6.21                   | 13                             | PASS           |
| n7          | 15                   | 15                         | 501500                | 75@0                     | DFT_QAM64         | 6.47                   | 13                             | PASS           |
| n7          | 15                   | 15                         | 501500                | 75@0                     | DFT_QAM256        | 6.65                   | 13                             | PASS           |
| n7          | 15                   | 15                         | 507000                | 75@0                     | DFT_BPSK          | 4.37                   | 13                             | PASS           |
| n7          | 15                   | 15                         | 507000                | 75@0                     | DFT_QPSK          | 5.56                   | 13                             | PASS           |
| n7          | 15                   | 15                         | 507000                | 75@0                     | DFT_QAM16         | 6.39                   | 13                             | PASS           |
| n7          | 15                   | 15                         | 507000                | 75@0                     | DFT_QAM64         | 6.62                   | 13                             | PASS           |

|    |    |    |        |       |            |      |    |      |
|----|----|----|--------|-------|------------|------|----|------|
| n7 | 15 | 15 | 507000 | 75@0  | DFT_QAM256 | 6.70 | 13 | PASS |
| n7 | 15 | 15 | 512500 | 75@0  | DFT_BPSK   | 4.40 | 13 | PASS |
| n7 | 15 | 15 | 512500 | 75@0  | DFT_QPSK   | 5.45 | 13 | PASS |
| n7 | 15 | 15 | 512500 | 75@0  | DFT_QAM16  | 6.28 | 13 | PASS |
| n7 | 15 | 15 | 512500 | 75@0  | DFT_QAM64  | 6.45 | 13 | PASS |
| n7 | 15 | 15 | 512500 | 75@0  | DFT_QAM256 | 6.49 | 13 | PASS |
| n7 | 15 | 20 | 502000 | 100@0 | DFT_BPSK   | 4.39 | 13 | PASS |
| n7 | 15 | 20 | 502000 | 100@0 | DFT_QPSK   | 5.53 | 13 | PASS |
| n7 | 15 | 20 | 502000 | 100@0 | DFT_QAM16  | 6.36 | 13 | PASS |
| n7 | 15 | 20 | 502000 | 100@0 | DFT_QAM64  | 6.43 | 13 | PASS |
| n7 | 15 | 20 | 502000 | 100@0 | DFT_QAM256 | 6.75 | 13 | PASS |
| n7 | 15 | 20 | 507000 | 100@0 | DFT_BPSK   | 4.32 | 13 | PASS |
| n7 | 15 | 20 | 507000 | 100@0 | DFT_QPSK   | 5.55 | 13 | PASS |
| n7 | 15 | 20 | 507000 | 100@0 | DFT_QAM16  | 6.19 | 13 | PASS |
| n7 | 15 | 20 | 507000 | 100@0 | DFT_QAM64  | 6.50 | 13 | PASS |
| n7 | 15 | 20 | 507000 | 100@0 | DFT_QAM256 | 6.57 | 13 | PASS |
| n7 | 15 | 20 | 512000 | 100@0 | DFT_BPSK   | 5.77 | 13 | PASS |
| n7 | 15 | 20 | 512000 | 100@0 | DFT_QPSK   | 5.96 | 13 | PASS |
| n7 | 15 | 20 | 512000 | 100@0 | DFT_QAM16  | 6.46 | 13 | PASS |
| n7 | 15 | 20 | 512000 | 100@0 | DFT_QAM64  | 6.54 | 13 | PASS |
| n7 | 15 | 20 | 512000 | 100@0 | DFT_QAM256 | 6.61 | 13 | PASS |

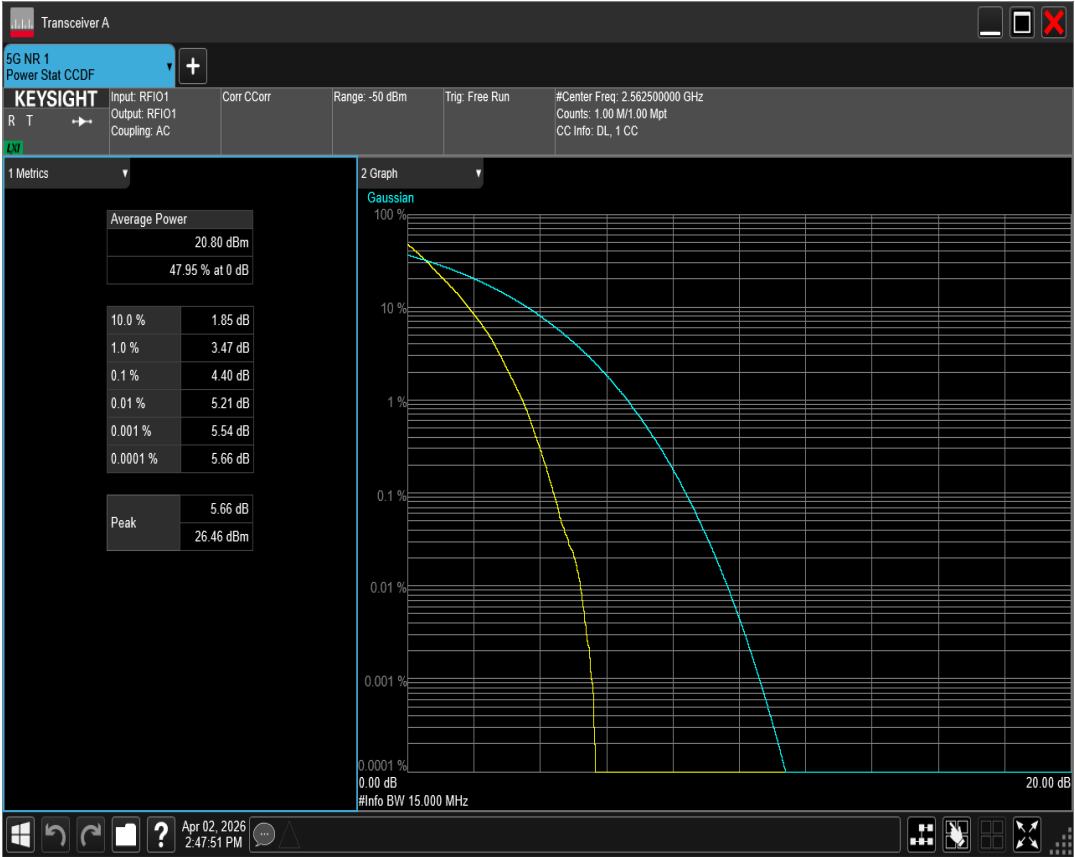
**n7 SCS=15kHz DFT\_BPSK BW=15MHz Channel=501500 RB=75@0**



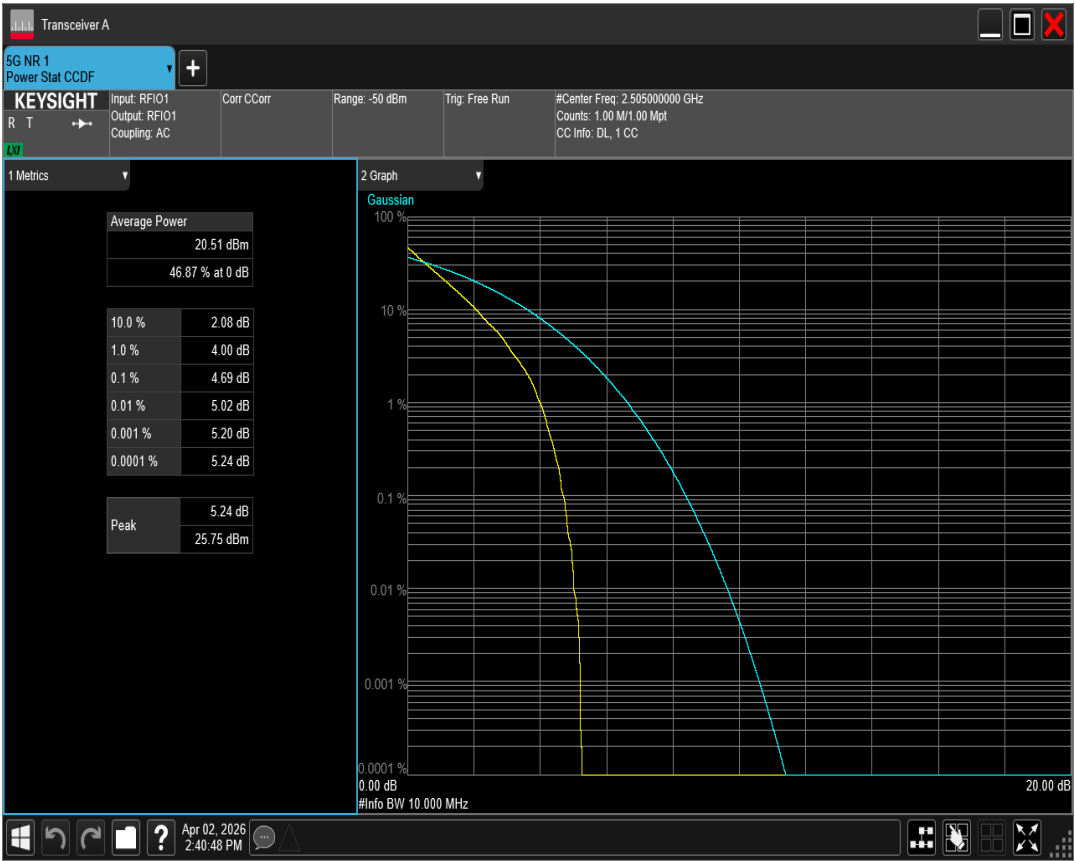
**n7 SCS=15kHz DFT\_BPSK BW=15MHz Channel=507000 RB=75@0**



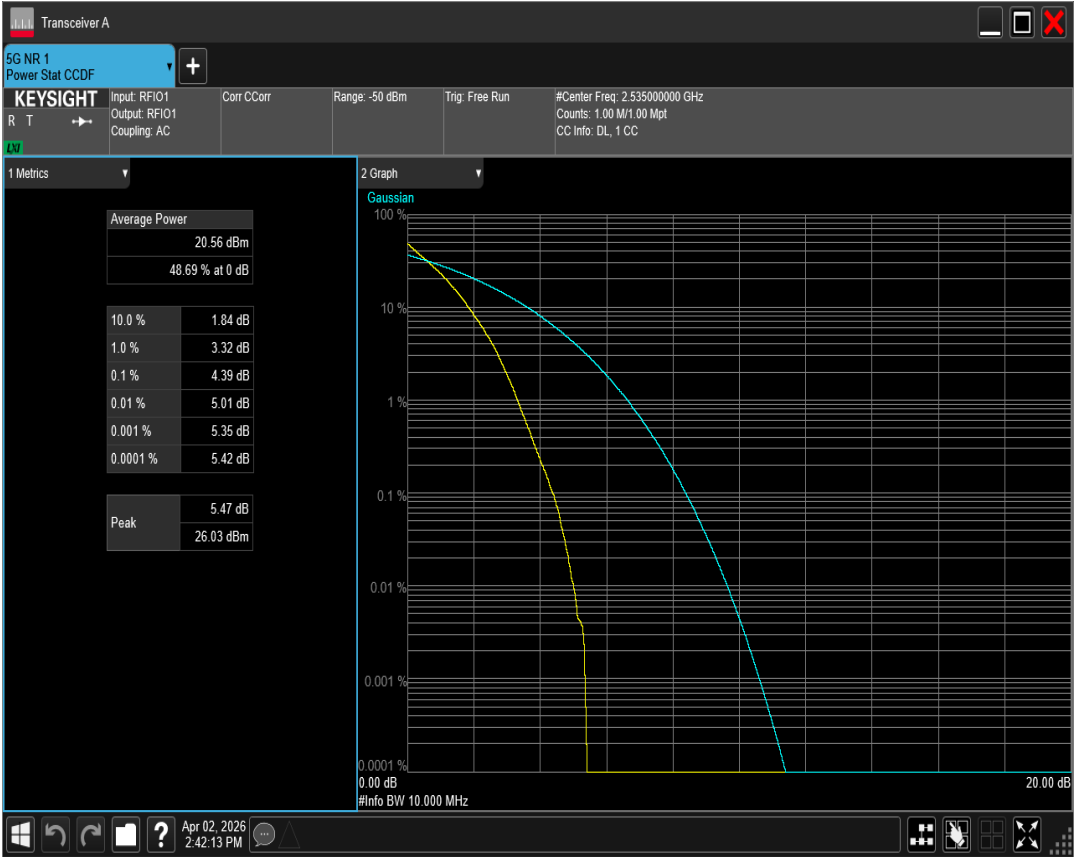
*n7 SCS=15kHz DFT\_BPSK BW=15MHz Channel=512500 RB=75@0*



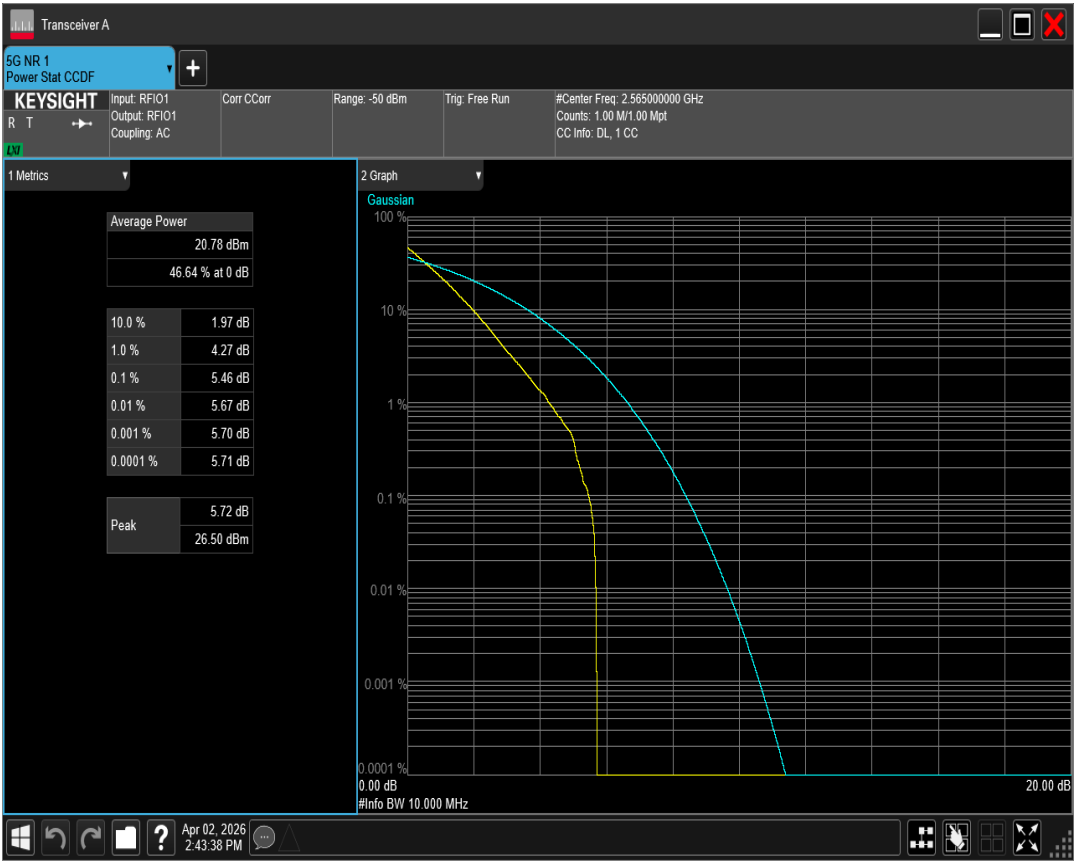
*n7 SCS=15kHz DFT\_BPSK BW=10MHz Channel=501000 RB=50@0*



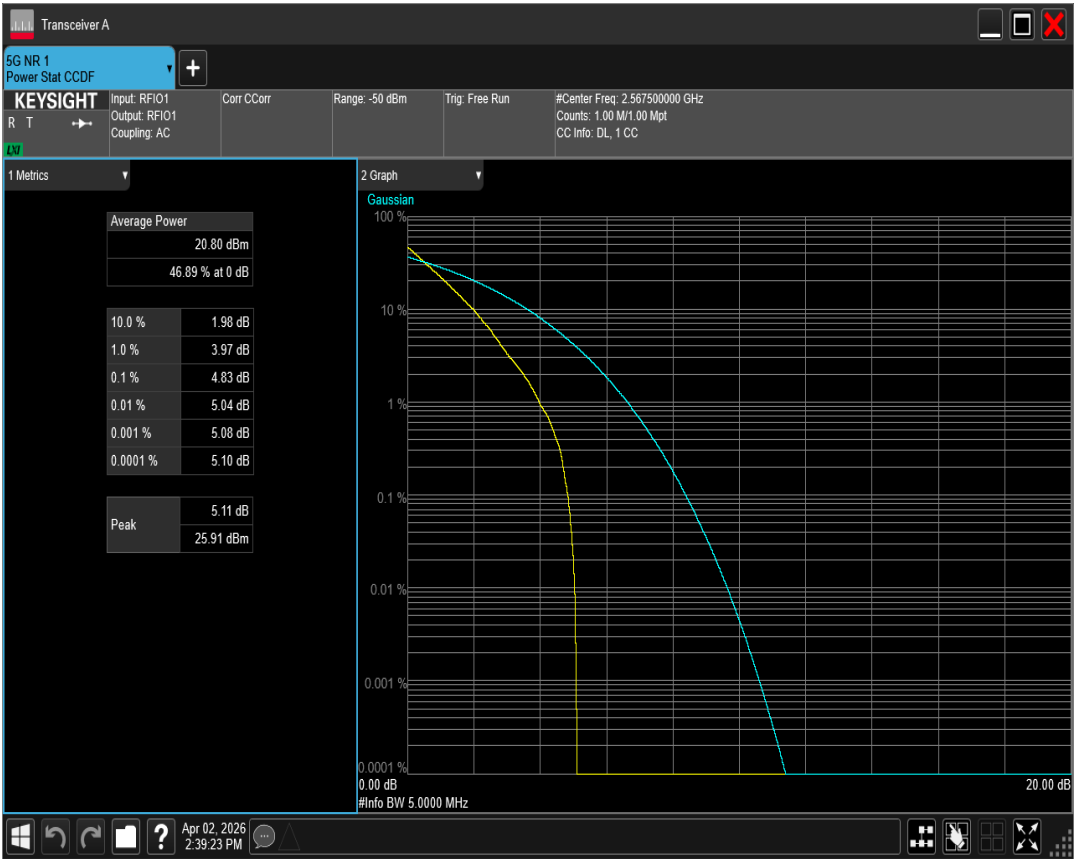
*n7 SCS=15kHz DFT\_BPSK BW=10MHz Channel=507000 RB=50@0*



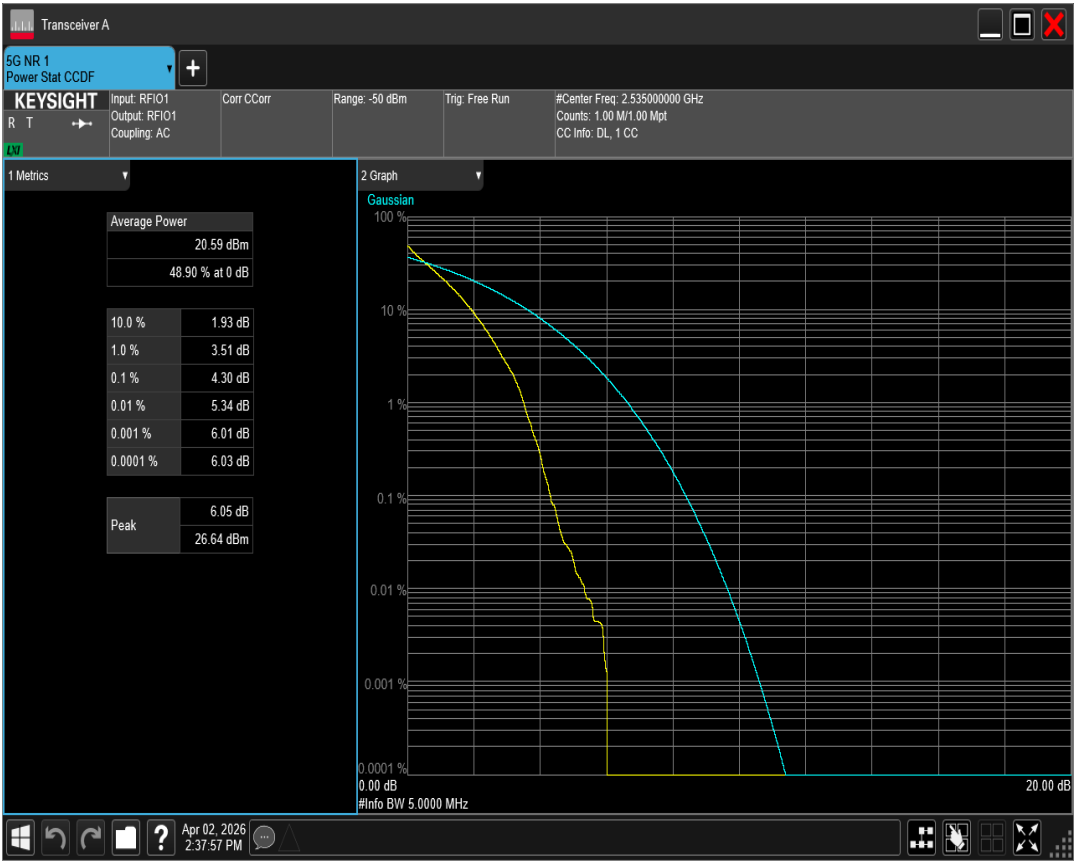
*n7 SCS=15kHz DFT\_BPSK BW=10MHz Channel=513000 RB=50@0*



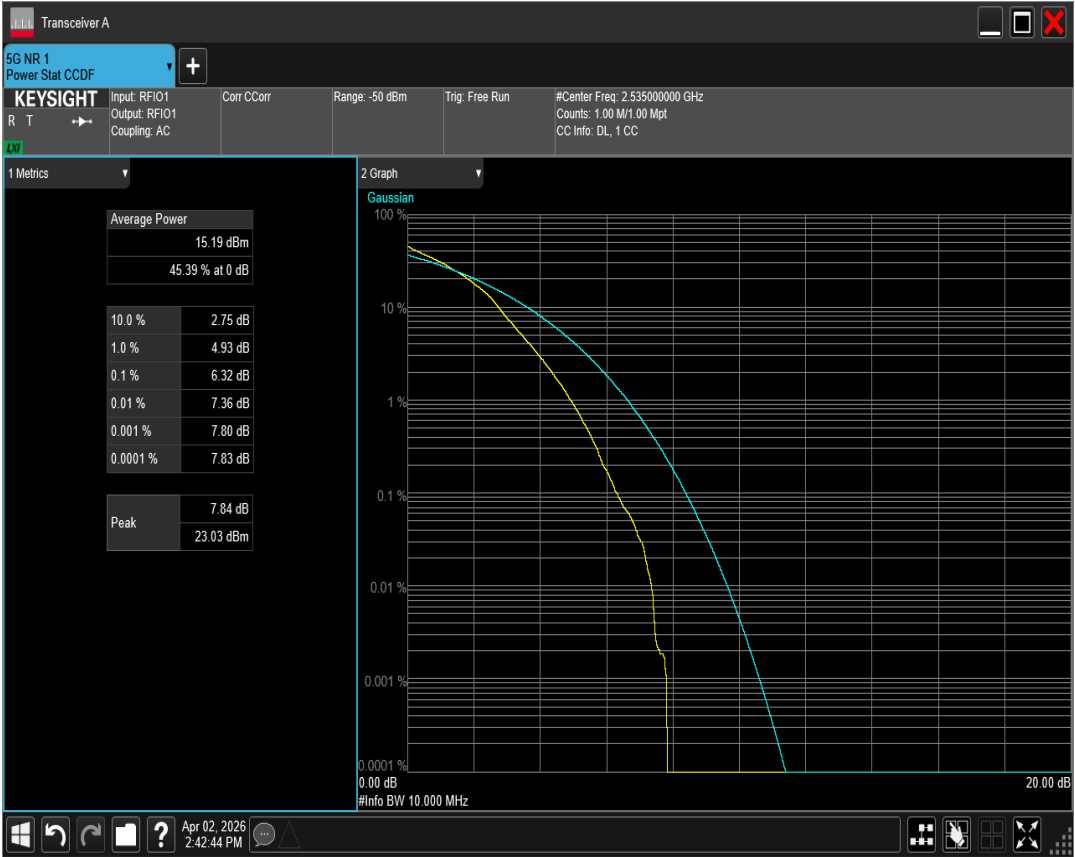
*n7 SCS=15kHz DFT\_BPSK BW=5MHz Channel=513500 RB=25@0*



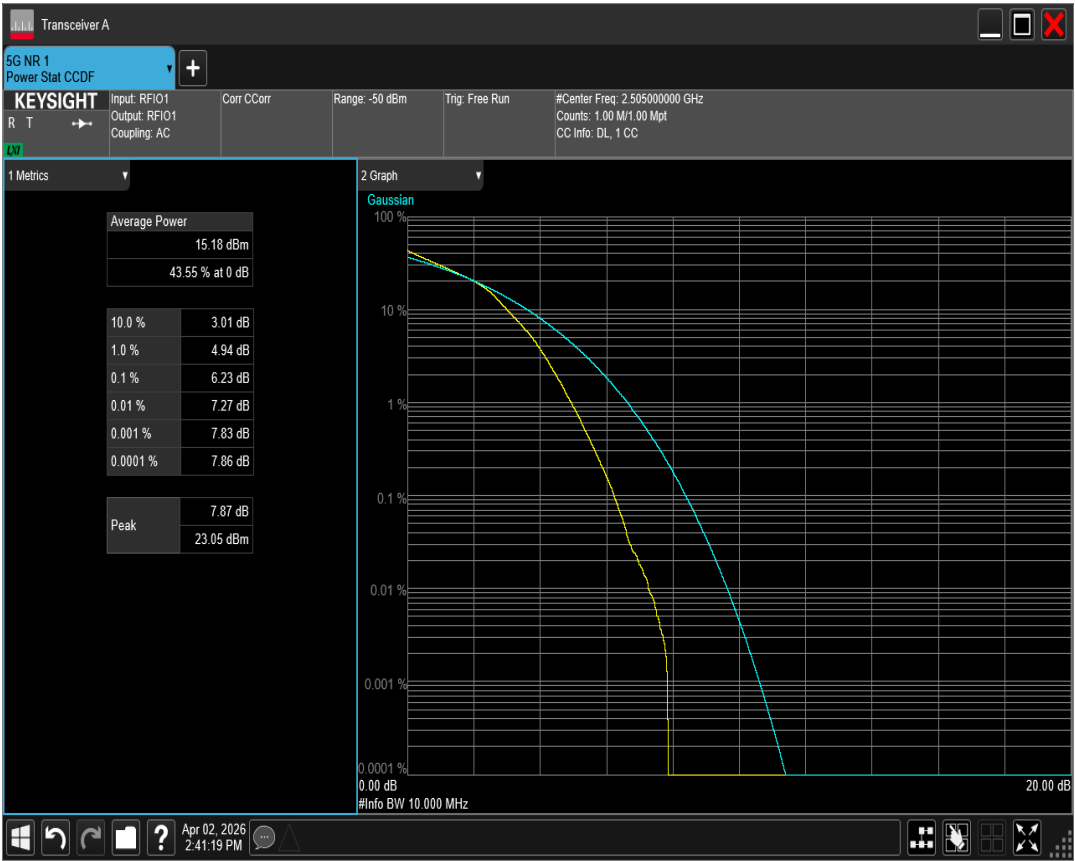
*n7 SCS=15kHz DFT\_BPSK BW=5MHz Channel=507000 RB=25@0*



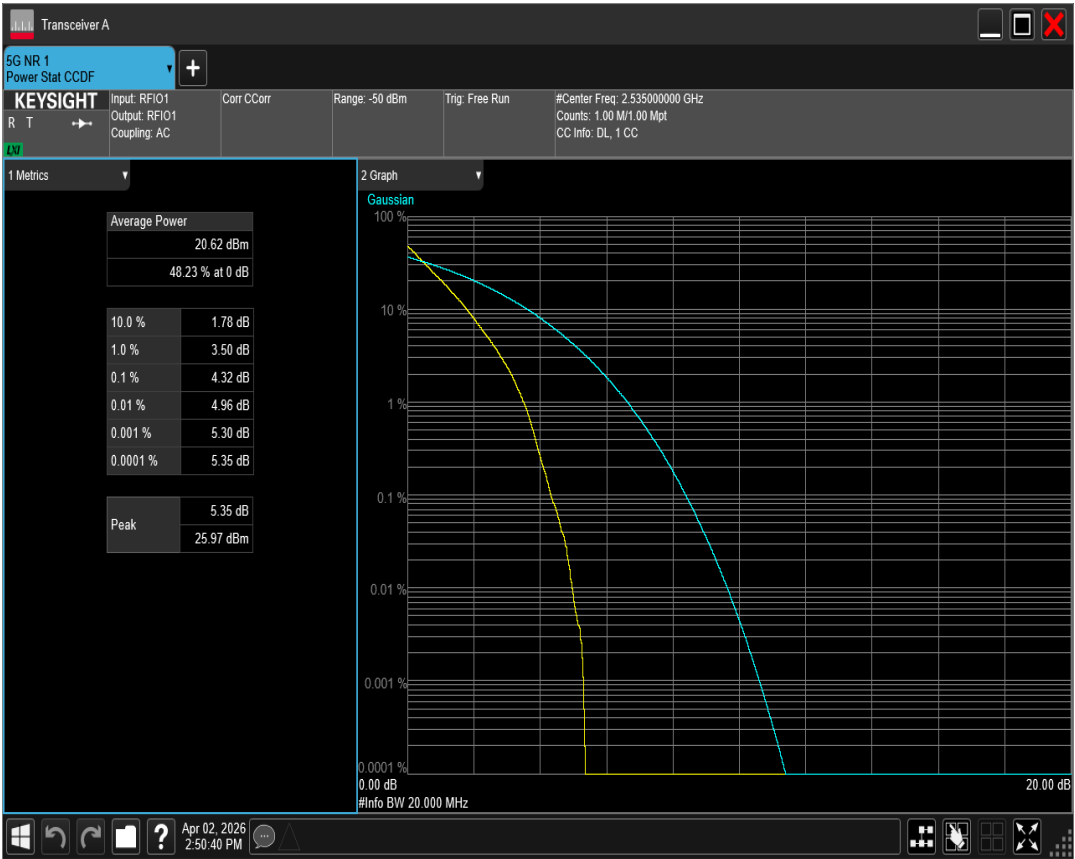
***n7 SCS=15kHz DFT\_QAM16 BW=10MHz Channel=507000 RB=50@0***



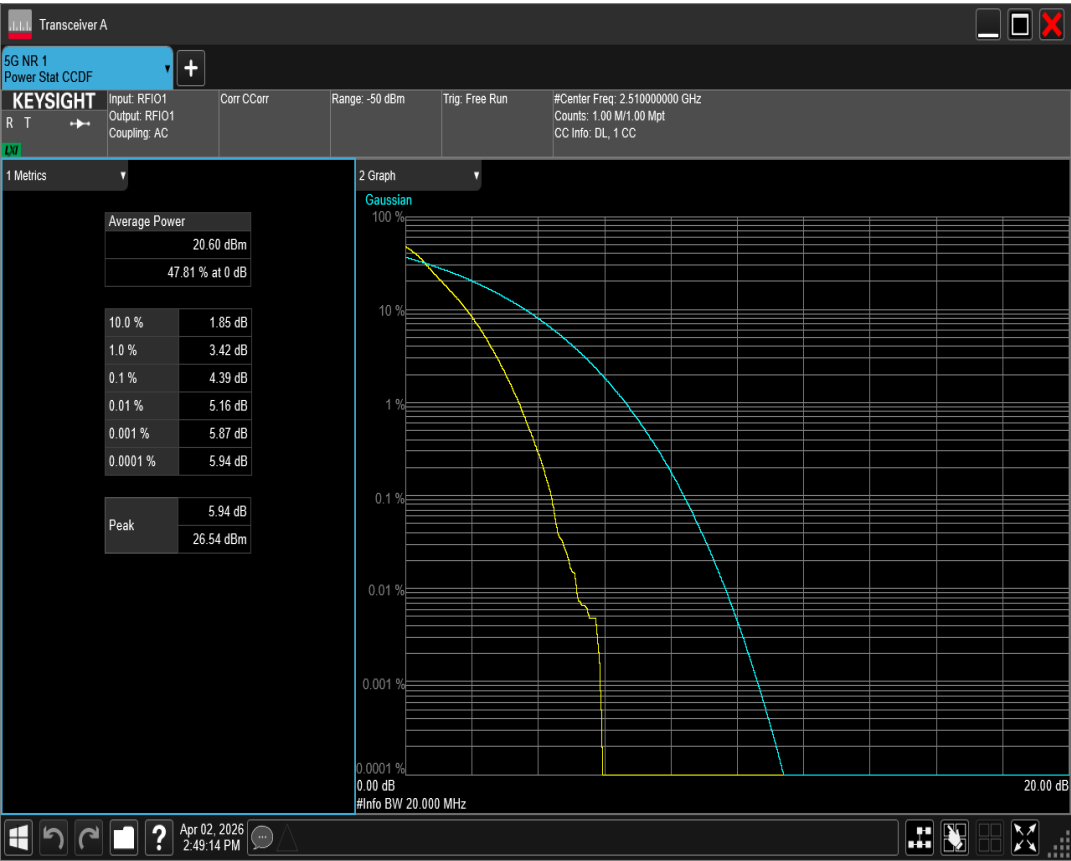
***n7 SCS=15kHz DFT\_QAM16 BW=10MHz Channel=501000 RB=50@0***



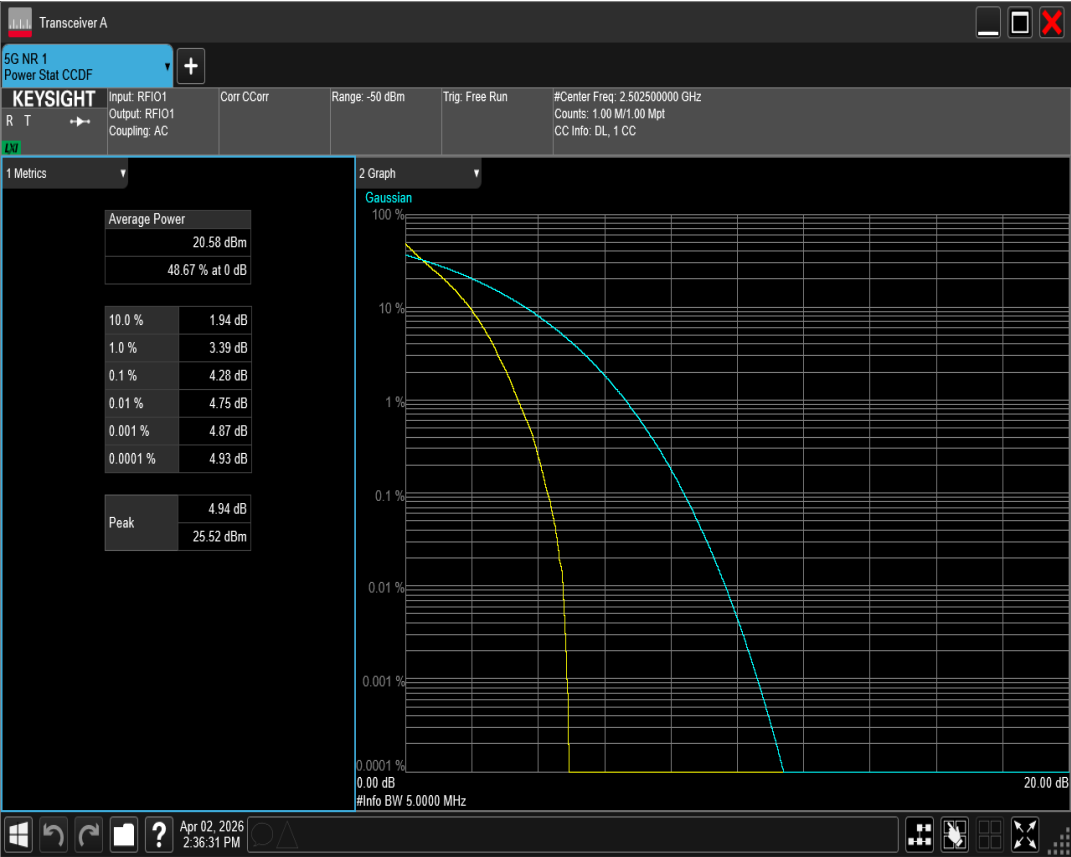
**n7 SCS=15kHz DFT\_BPSK BW=20MHz Channel=507000 RB=100@0**



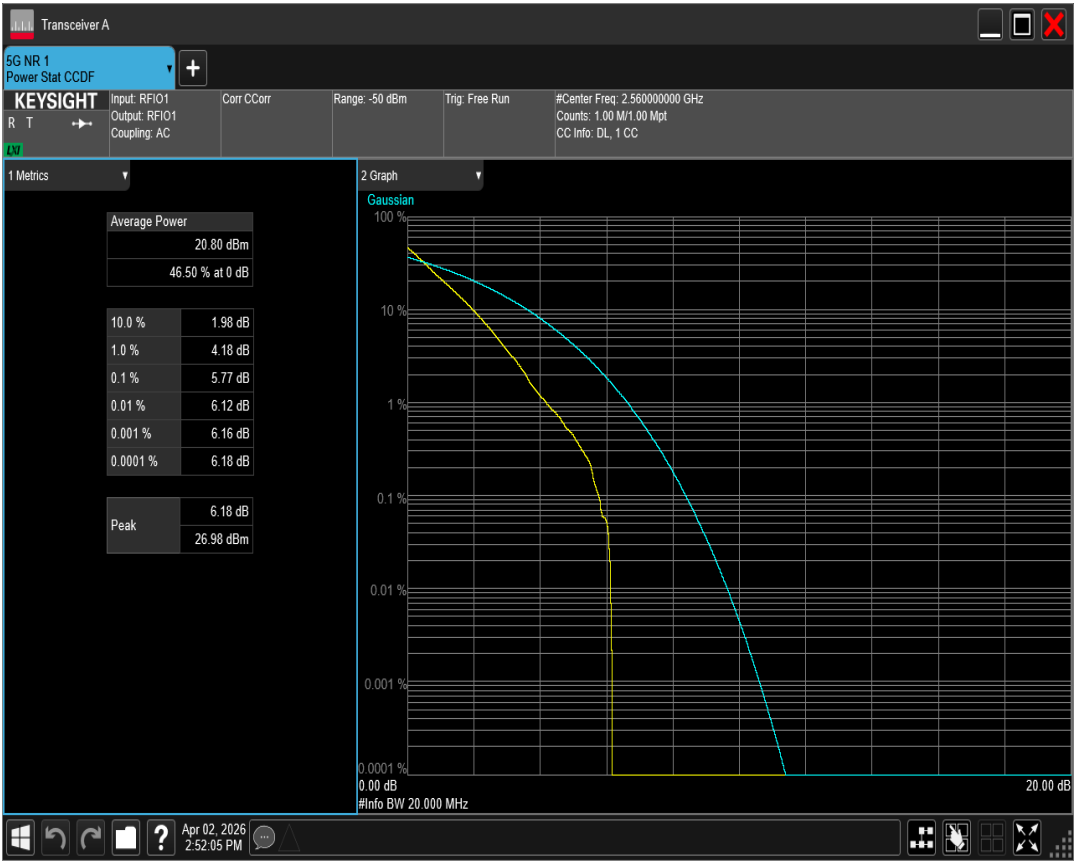
**n7 SCS=15kHz DFT\_BPSK BW=20MHz Channel=502000 RB=100@0**



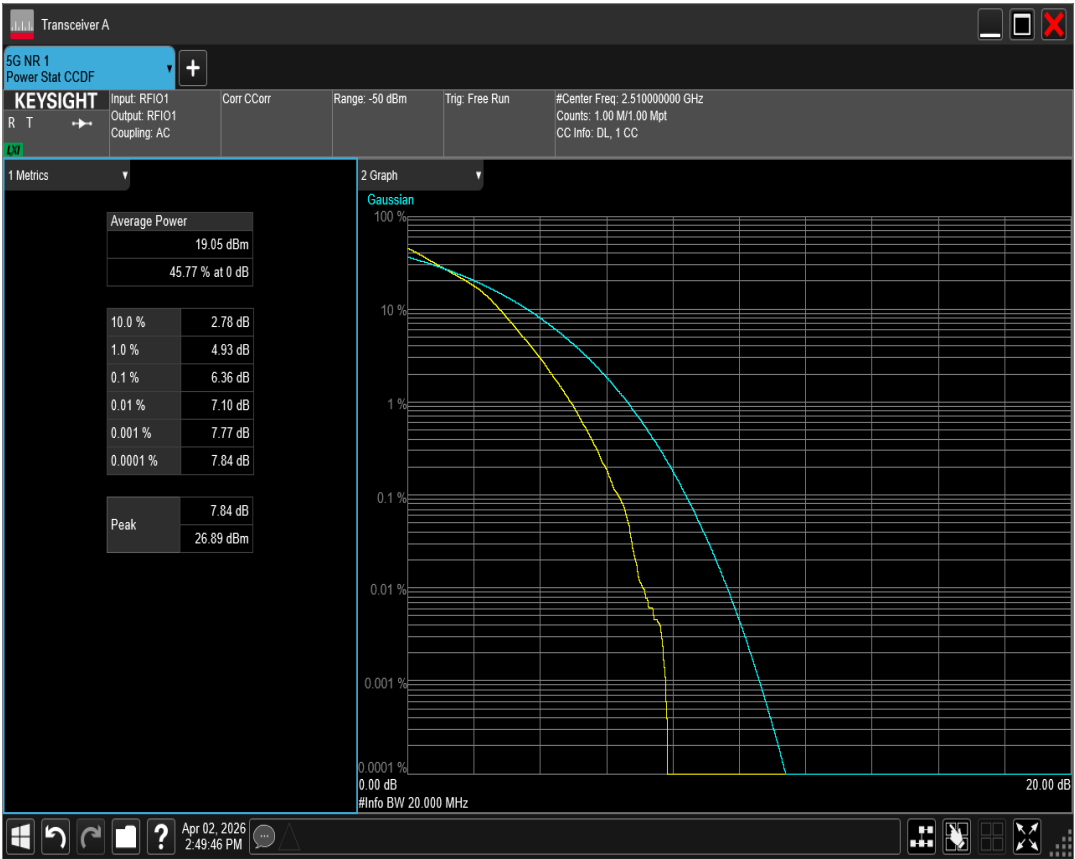
*n7 SCS=15kHz DFT\_BPSK BW=5MHz Channel=500500 RB=25@0*



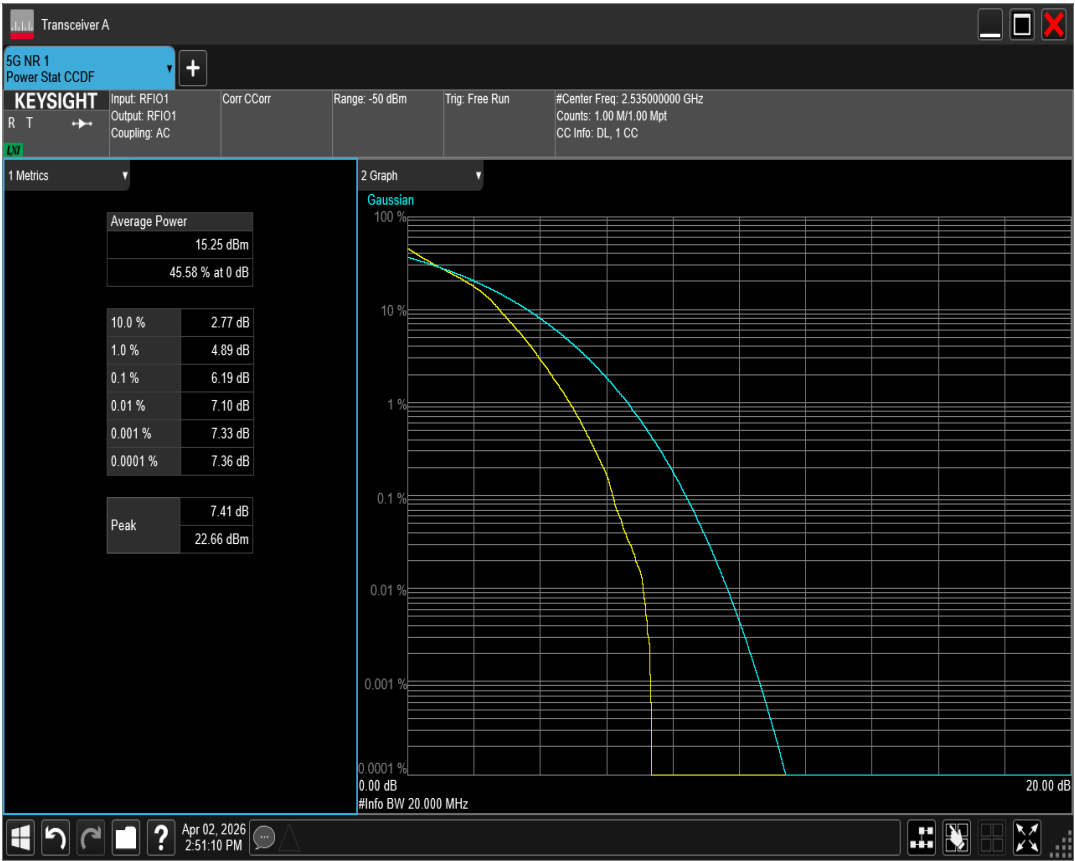
*n7 SCS=15kHz DFT\_BPSK BW=20MHz Channel=512000 RB=100@0*



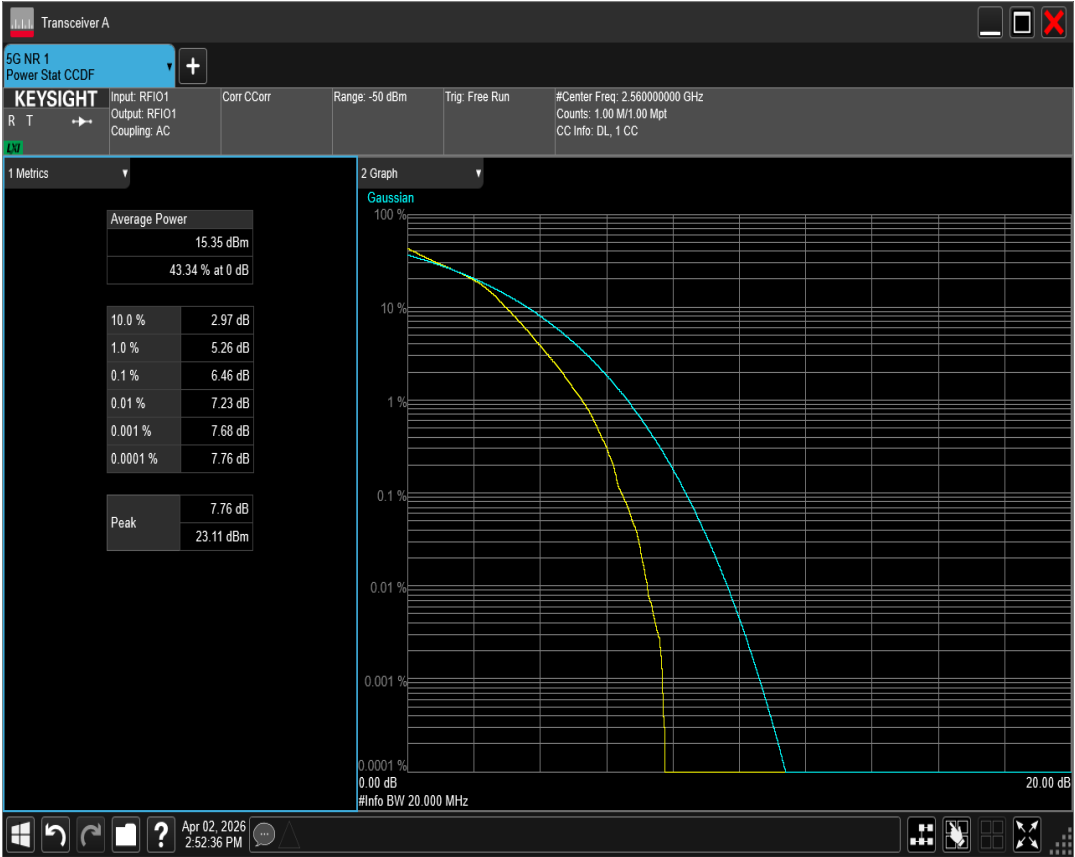
*n7 SCS=15kHz DFT\_QAM16 BW=20MHz Channel=502000 RB=100@0*



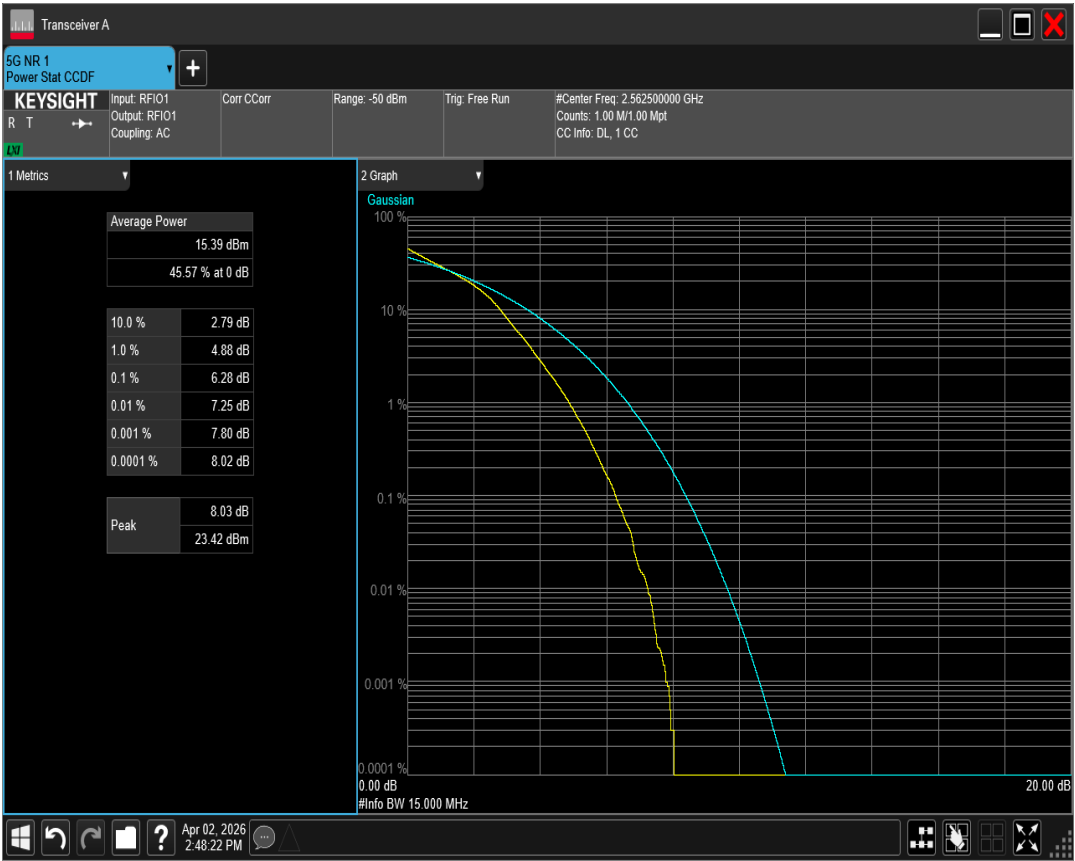
*n7 SCS=15kHz DFT\_QAM16 BW=20MHz Channel=507000 RB=100@0*



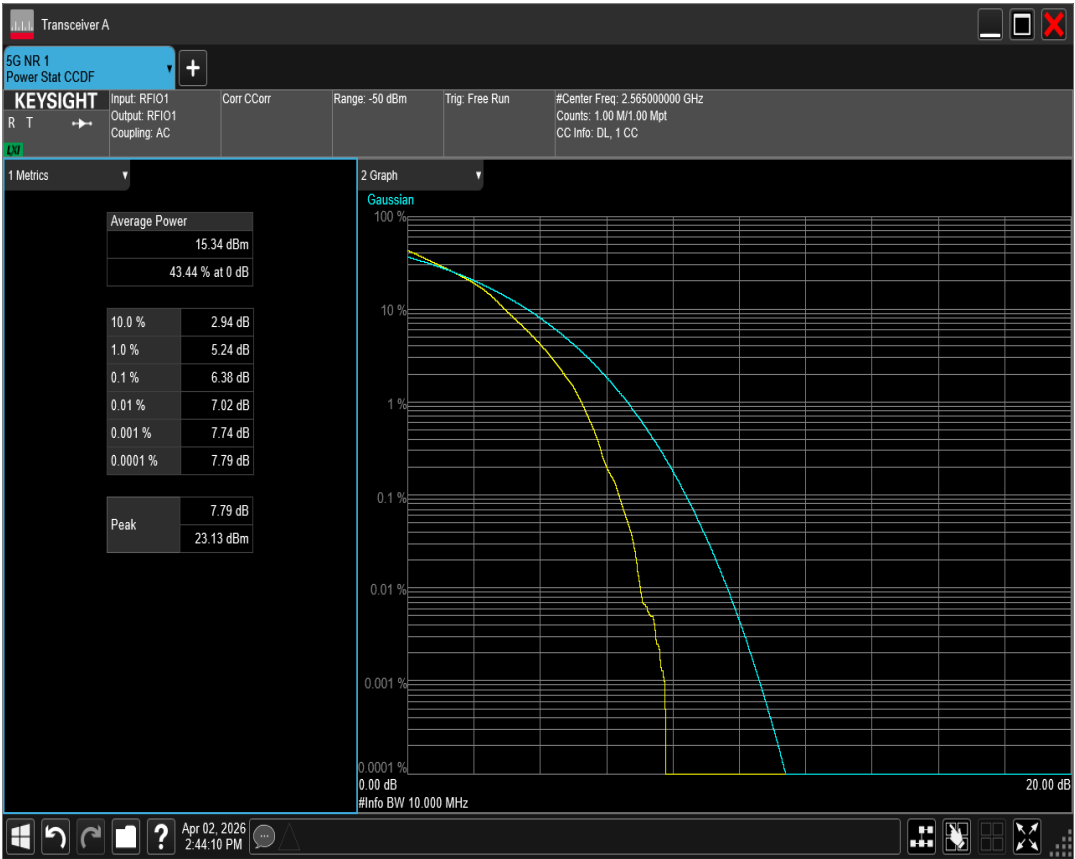
***n7 SCS=15kHz DFT\_QAM16 BW=20MHz Channel=512000 RB=100@0***



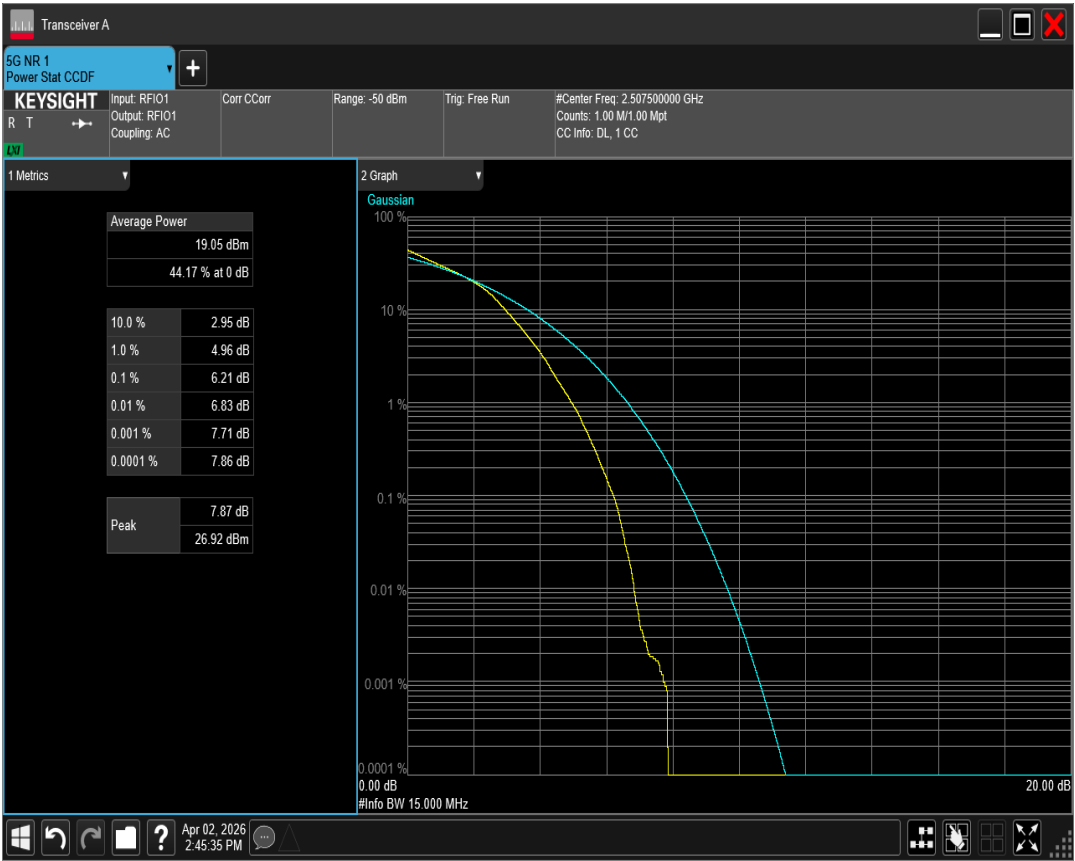
***n7 SCS=15kHz DFT\_QAM16 BW=15MHz Channel=512500 RB=75@0***



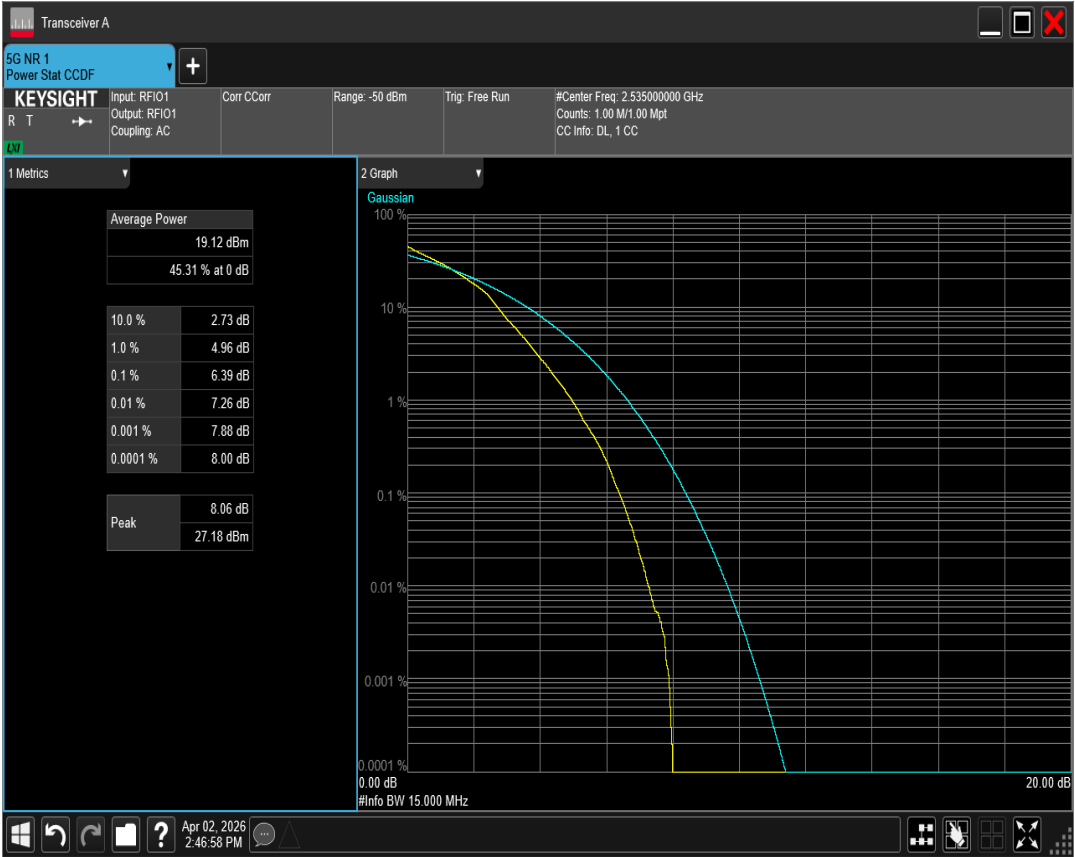
***n7 SCS=15kHz DFT\_QAM16 BW=10MHz Channel=513000 RB=50@0***



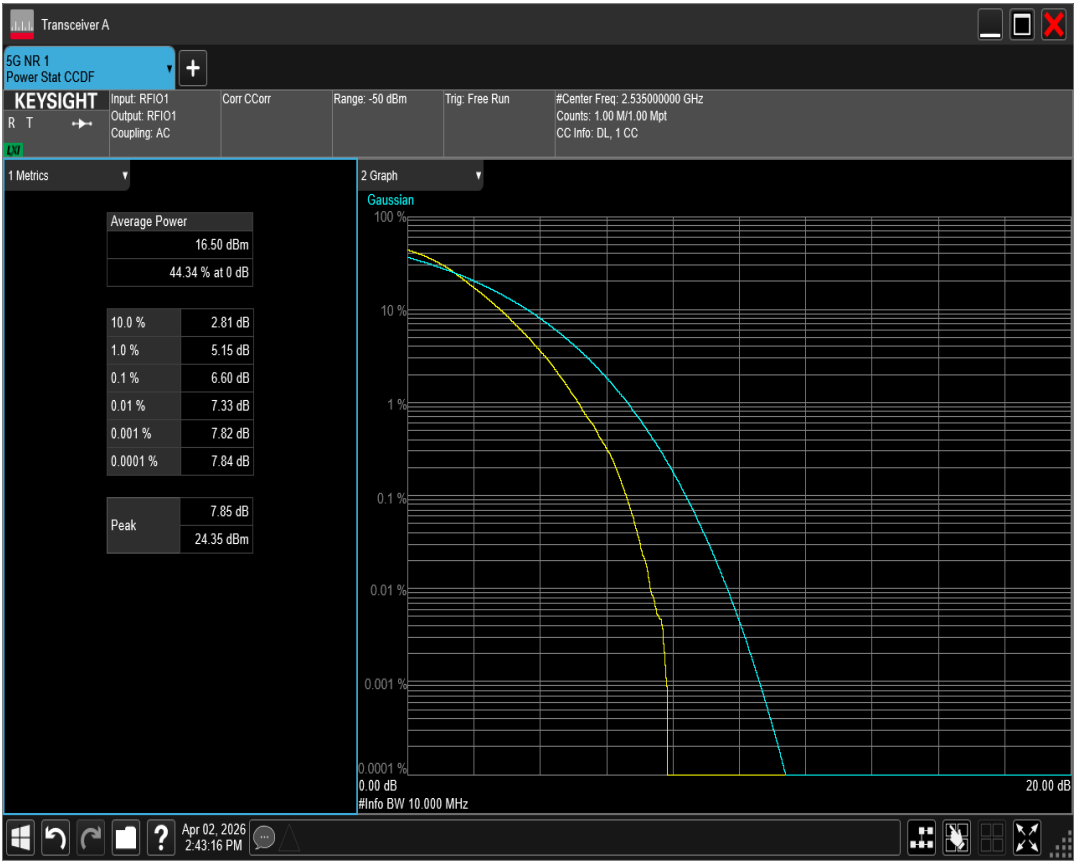
***n7 SCS=15kHz DFT\_QAM16 BW=15MHz Channel=501500 RB=75@0***



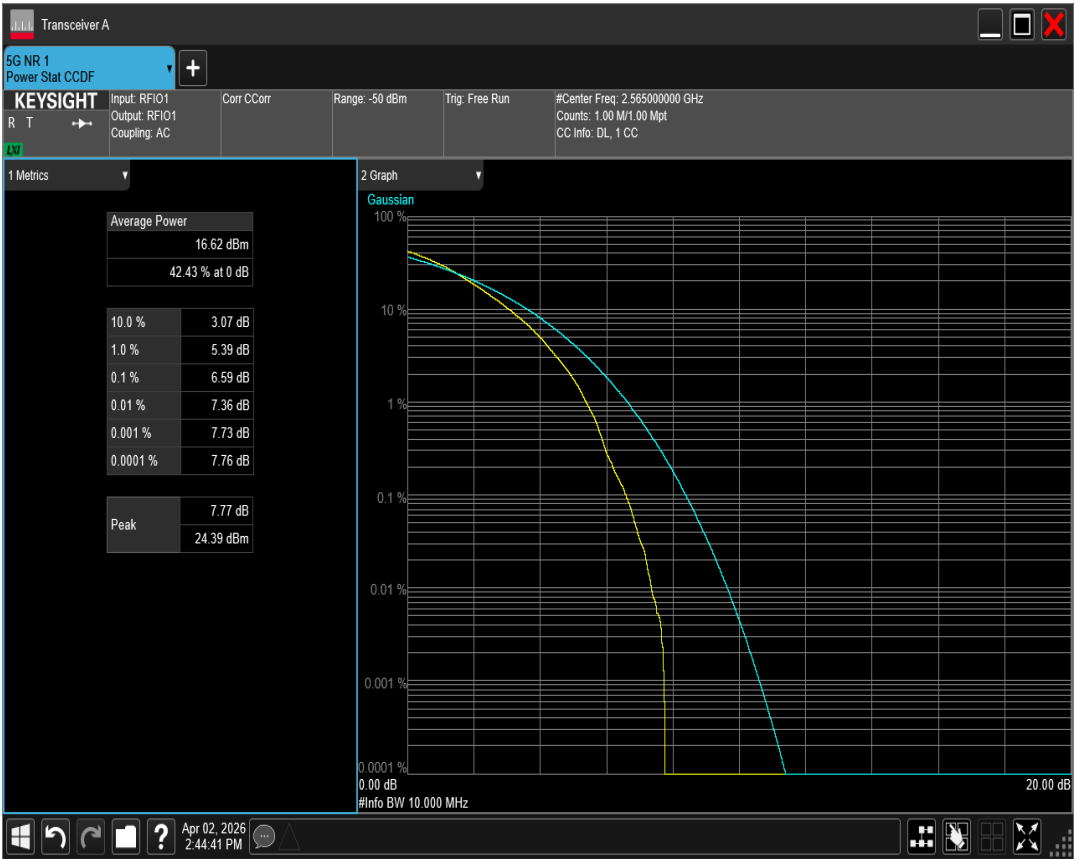
*n7 SCS=15kHz DFT\_QAM16 BW=15MHz Channel=507000 RB=75@0*



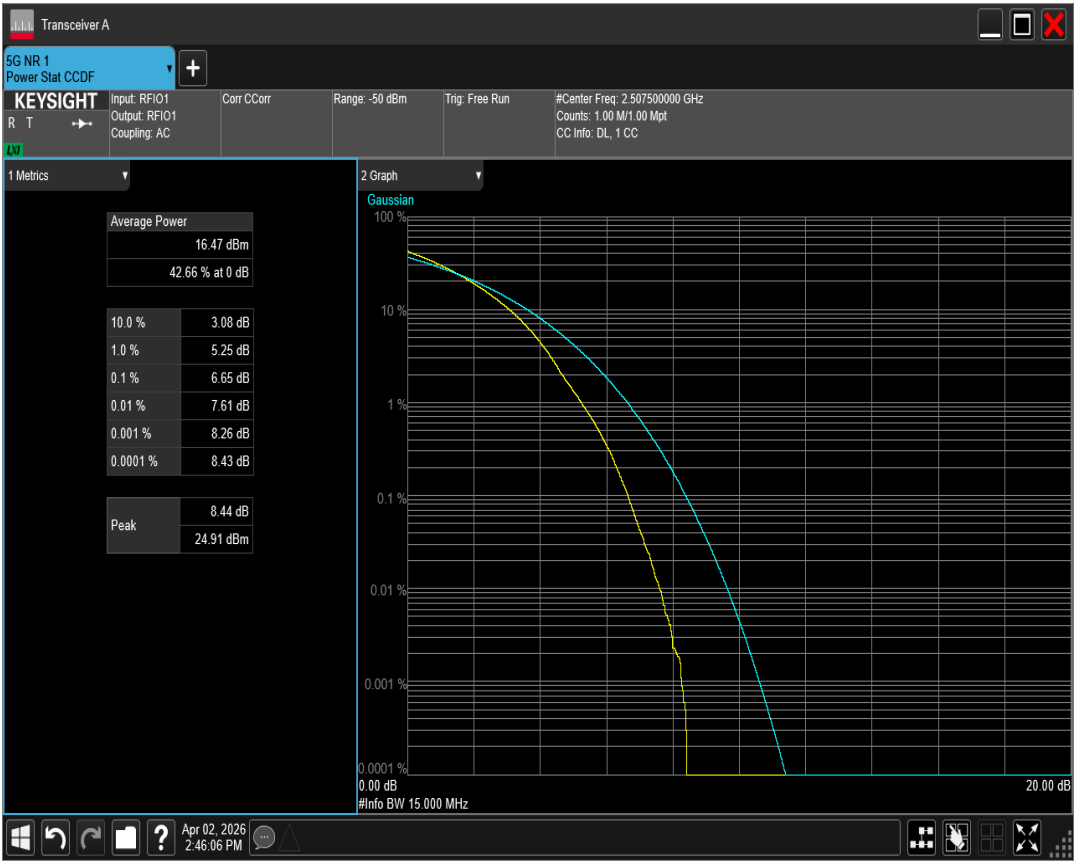
*n7 SCS=15kHz DFT\_QAM256 BW=10MHz Channel=507000 RB=50@0*



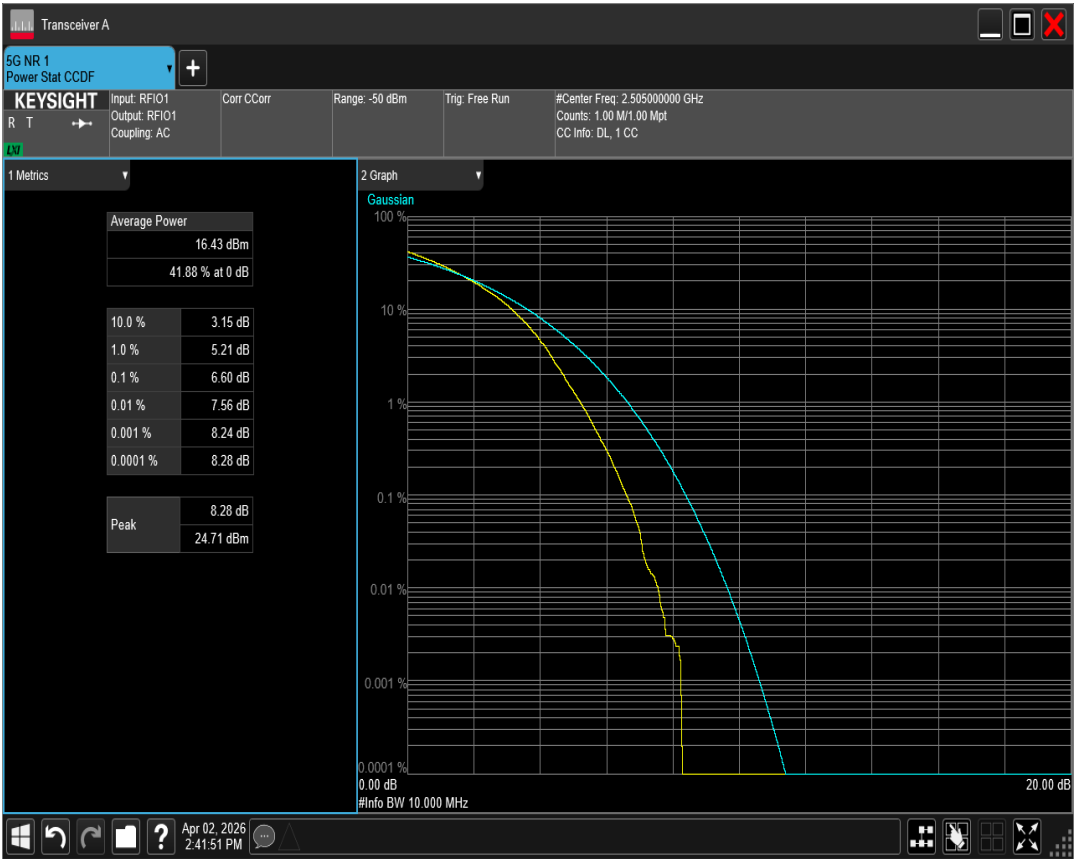
*n7 SCS=15kHz DFT\_QAM256 BW=10MHz Channel=513000 RB=50@0*



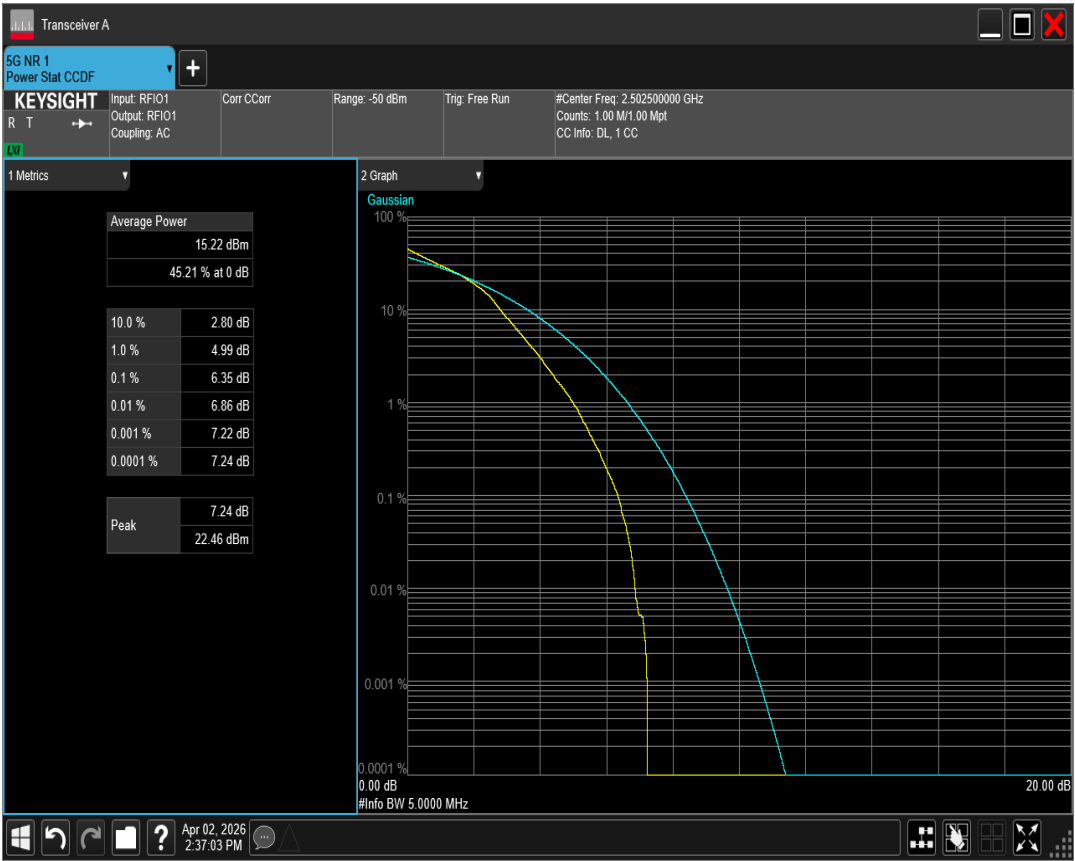
*n7 SCS=15kHz DFT\_QAM256 BW=15MHz Channel=501500 RB=75@0*



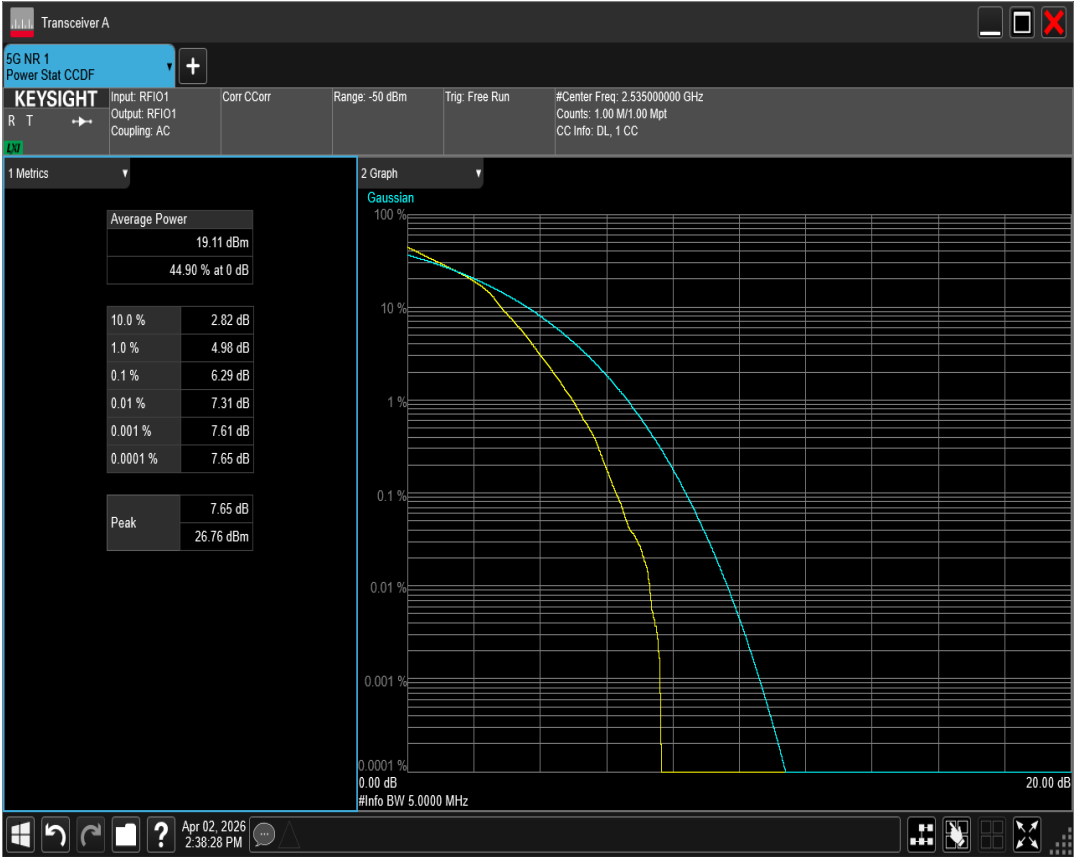
*n7 SCS=15kHz DFT\_QAM256 BW=10MHz Channel=501000 RB=50@0*



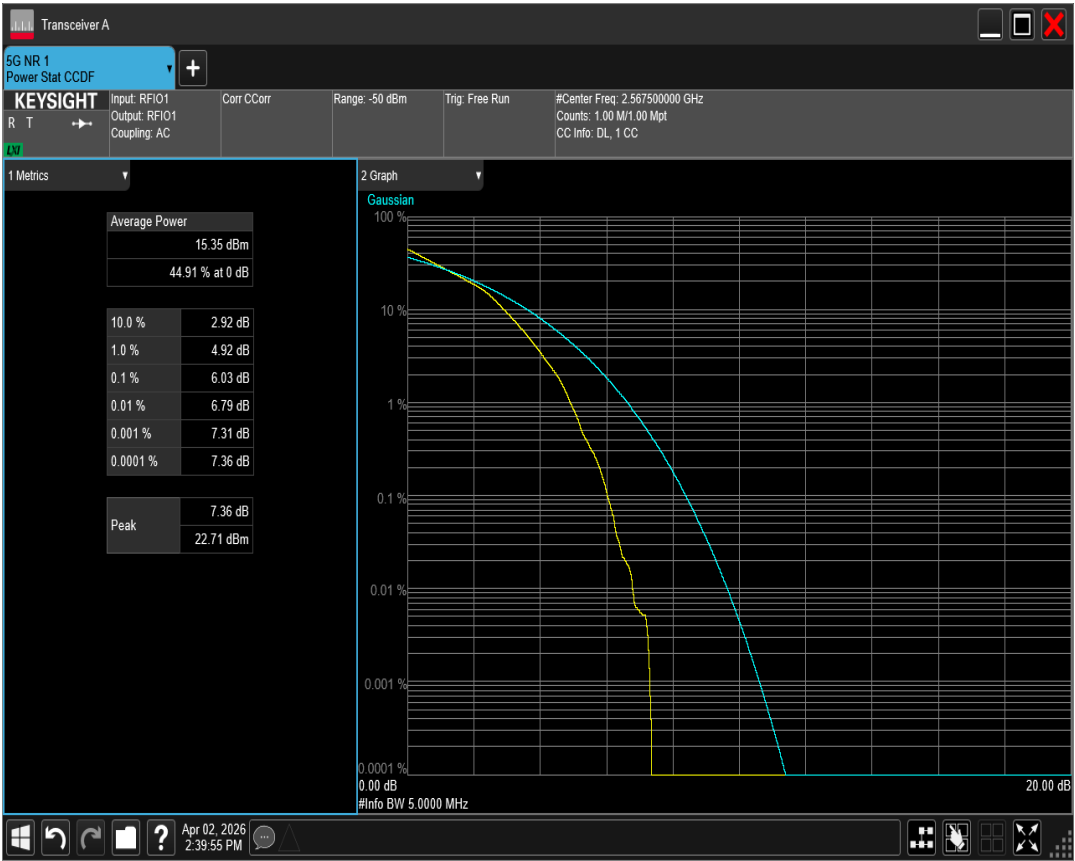
*n7 SCS=15kHz DFT\_QAM16 BW=5MHz Channel=500500 RB=25@0*



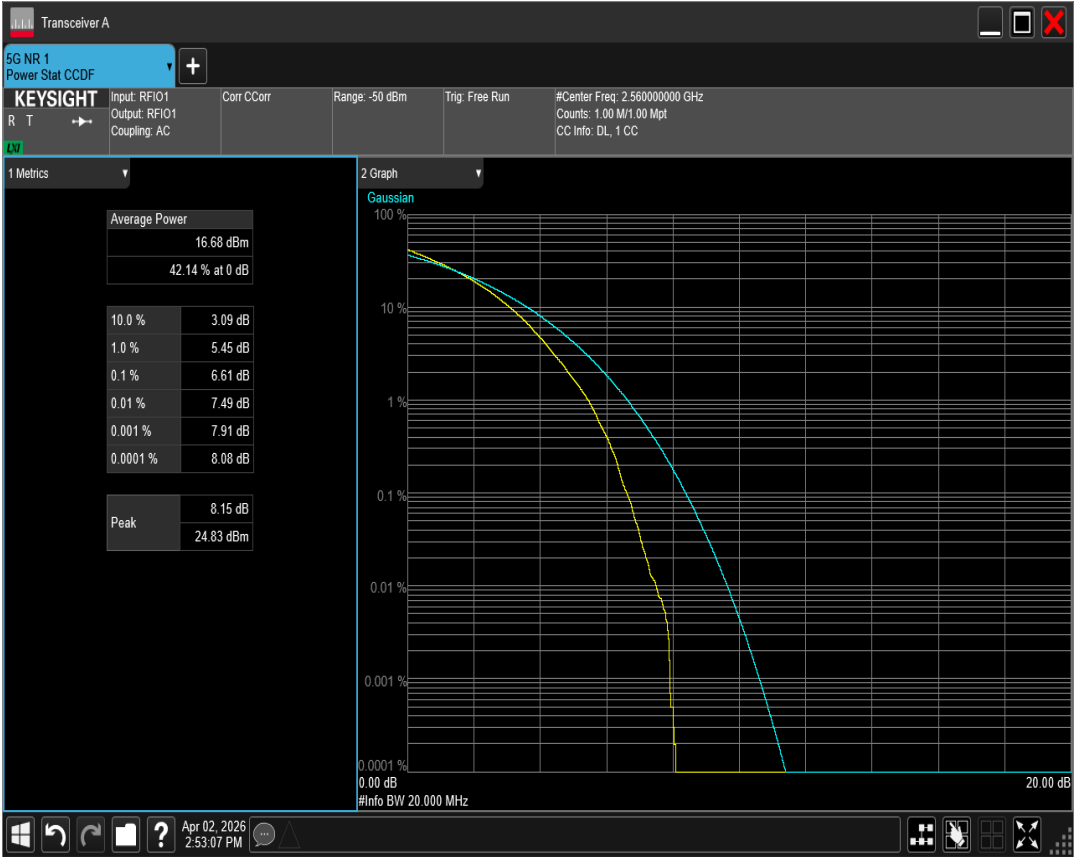
*n7 SCS=15kHz DFT\_QAM16 BW=5MHz Channel=507000 RB=25@0*



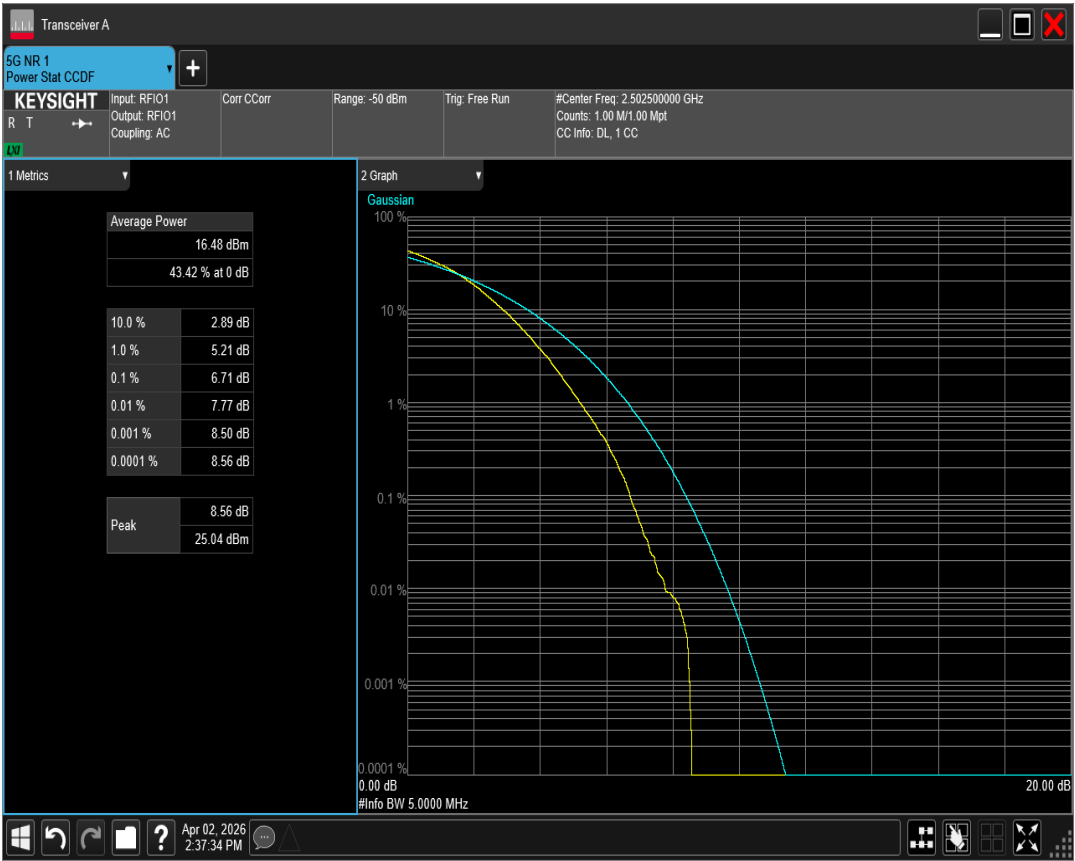
*n7 SCS=15kHz DFT\_QAM16 BW=5MHz Channel=513500 RB=25@0*



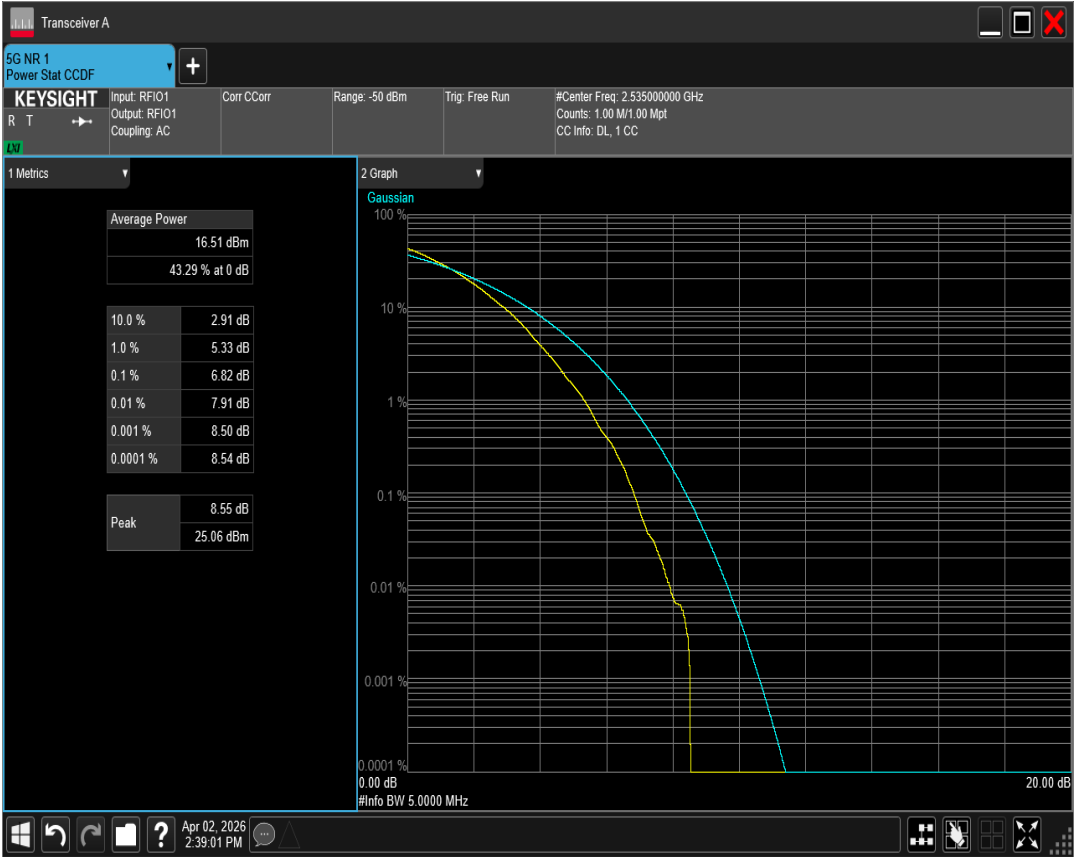
*n7 SCS=15kHz DFT\_QAM256 BW=20MHz Channel=512000 RB=100@0*



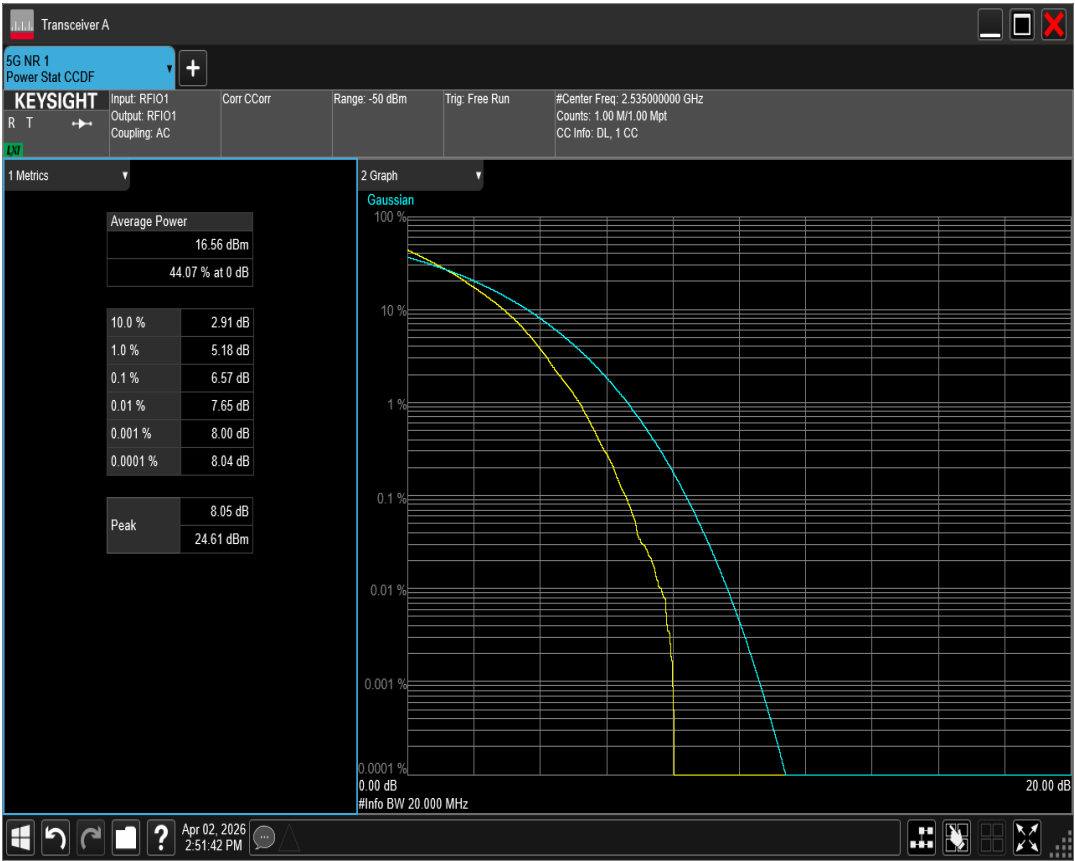
*n7 SCS=15kHz DFT\_QAM256 BW=5MHz Channel=500500 RB=25@0*



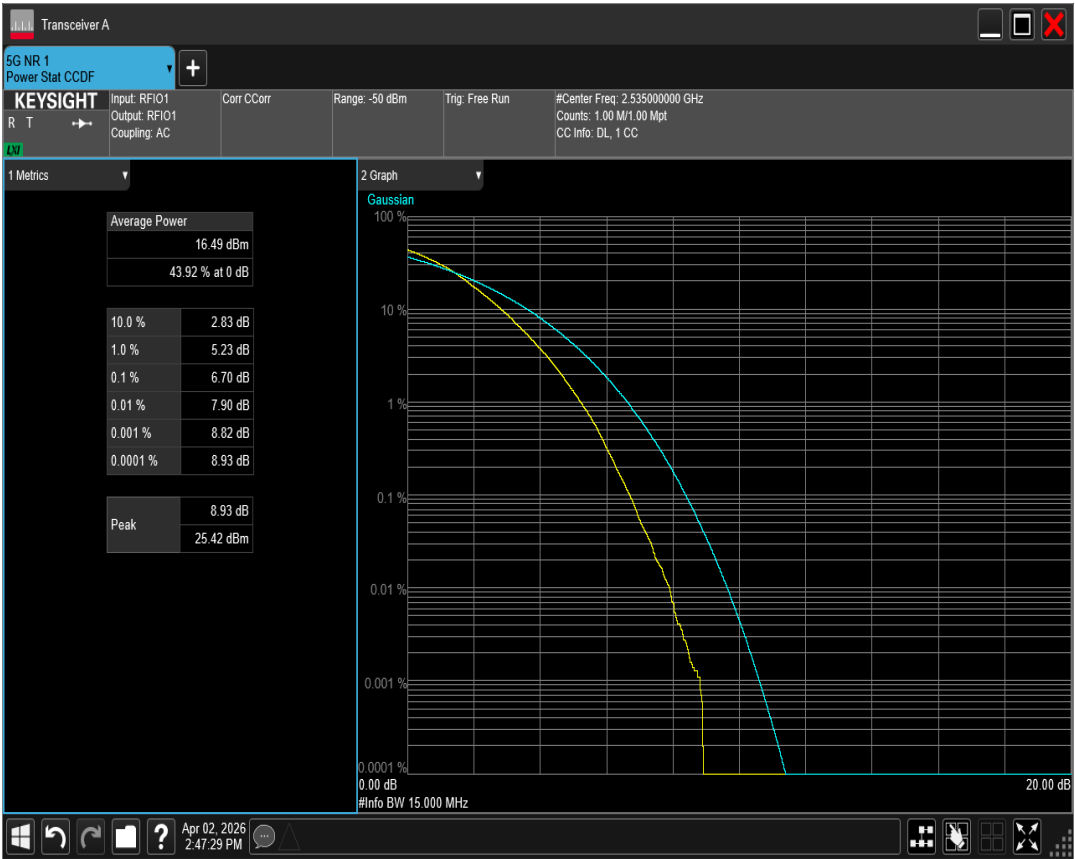
*n7 SCS=15kHz DFT\_QAM256 BW=5MHz Channel=507000 RB=25@0*



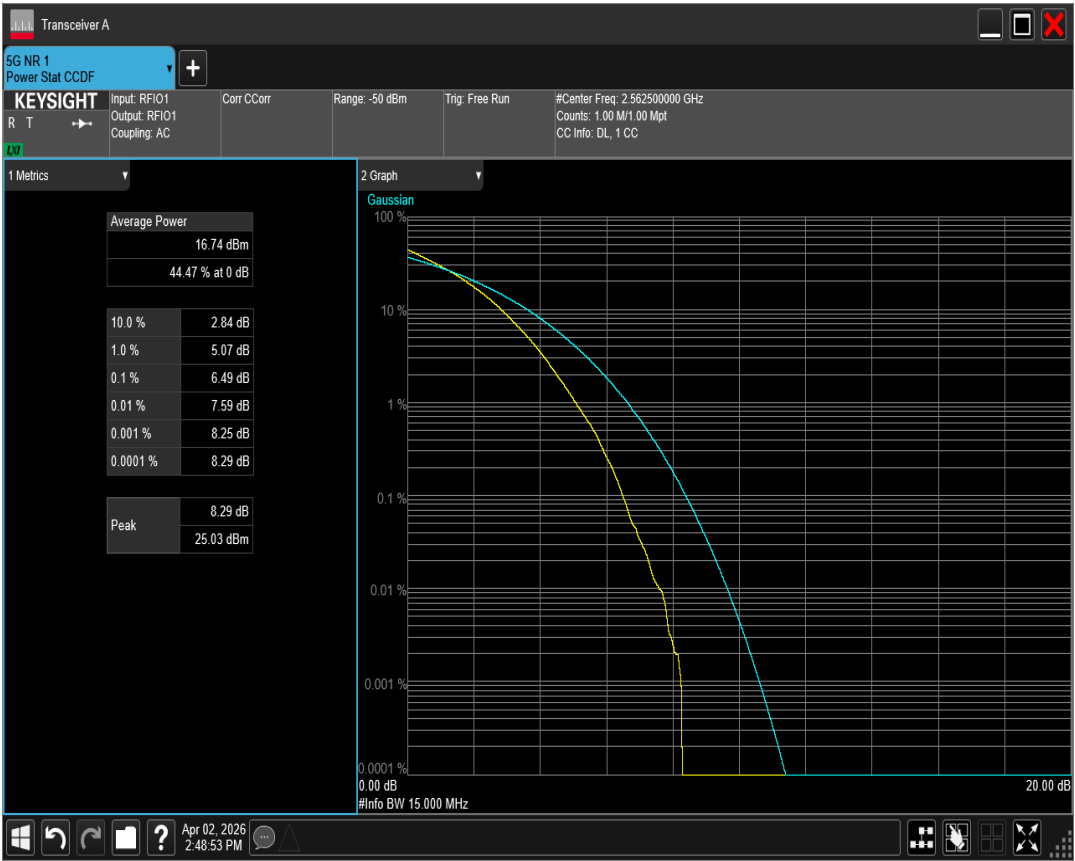
*n7 SCS=15kHz DFT\_QAM256 BW=20MHz Channel=507000 RB=100@0*



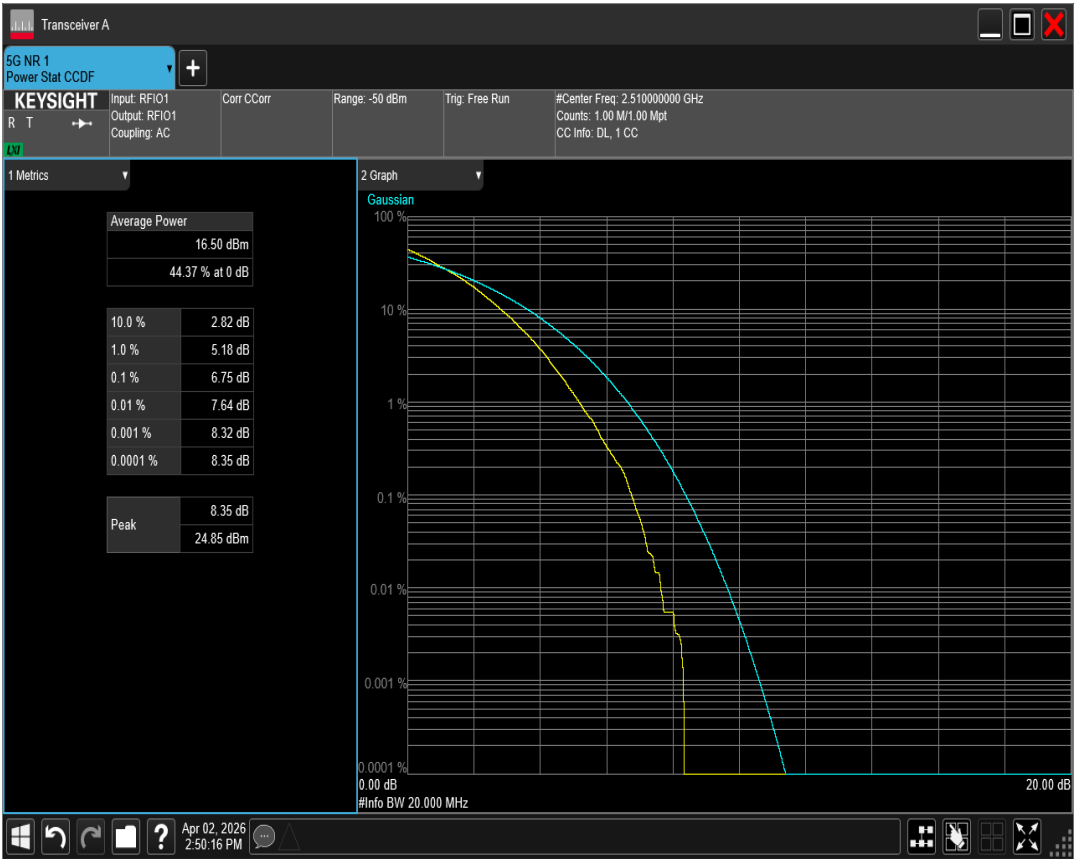
*n7 SCS=15kHz DFT\_QAM256 BW=15MHz Channel=507000 RB=75@0*



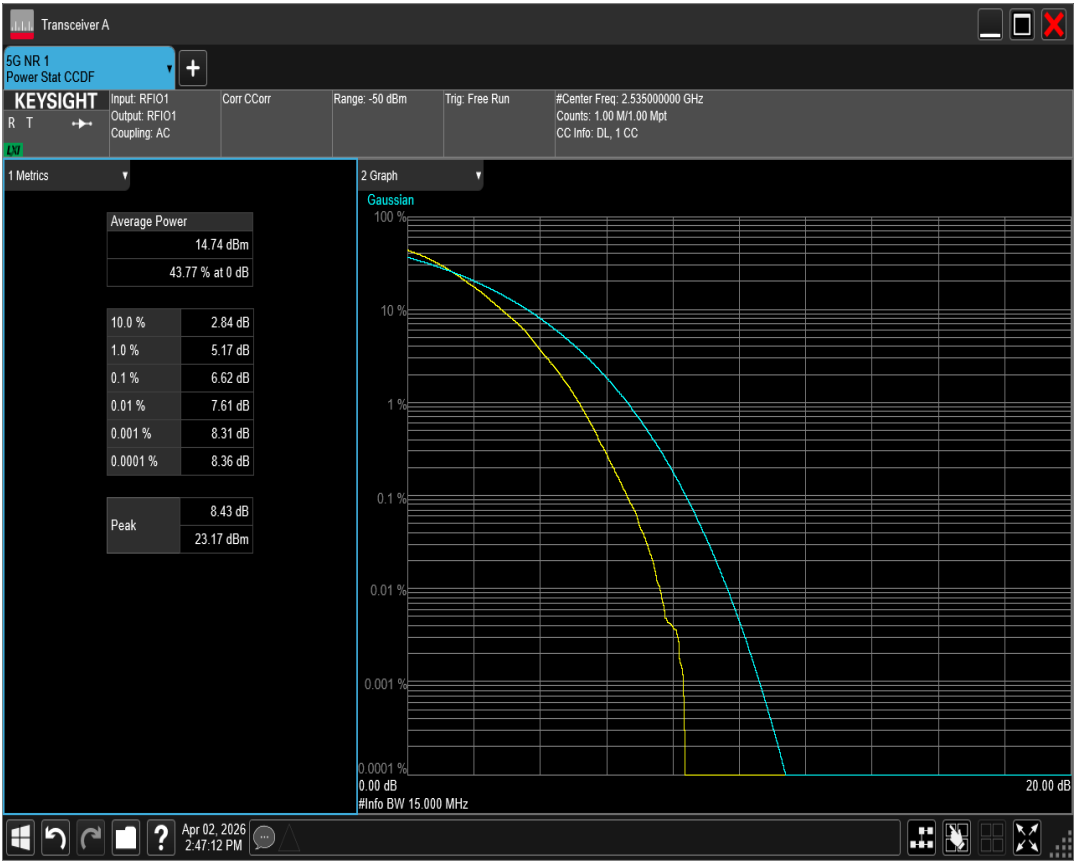
*n7 SCS=15kHz DFT\_QAM256 BW=15MHz Channel=512500 RB=75@0*



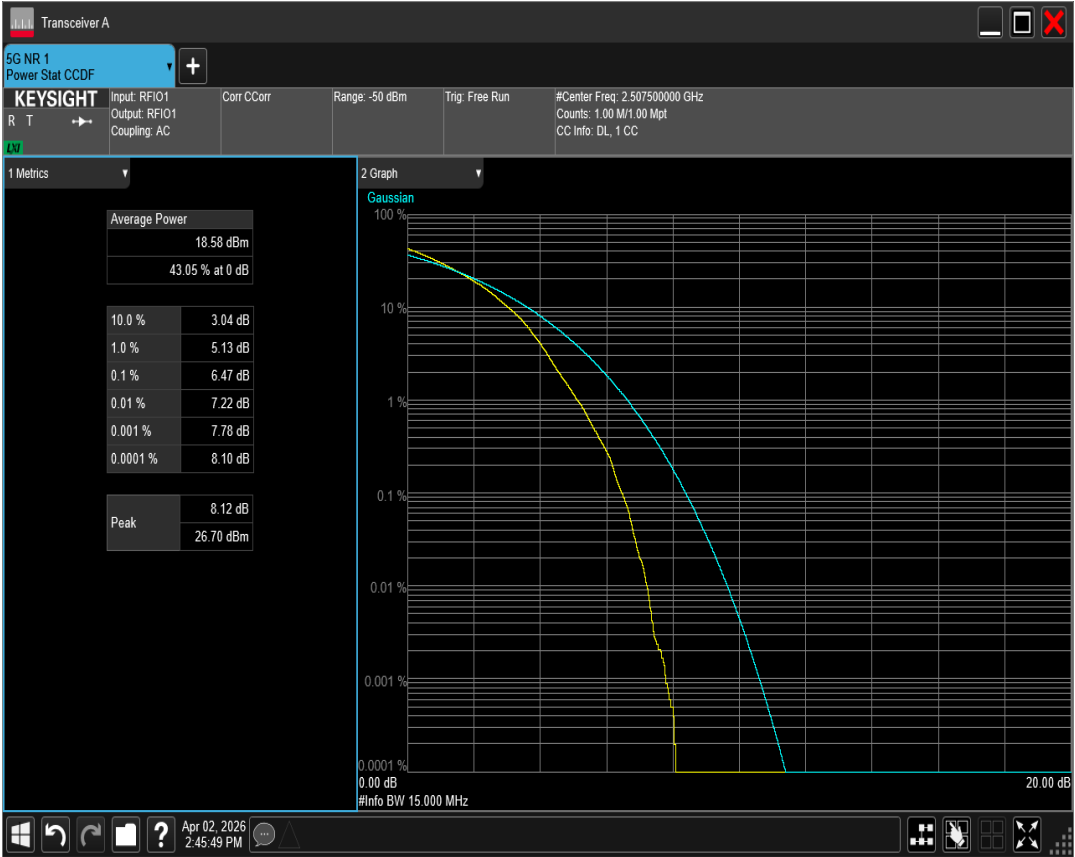
*n7 SCS=15kHz DFT\_QAM256 BW=20MHz Channel=502000 RB=100@0*



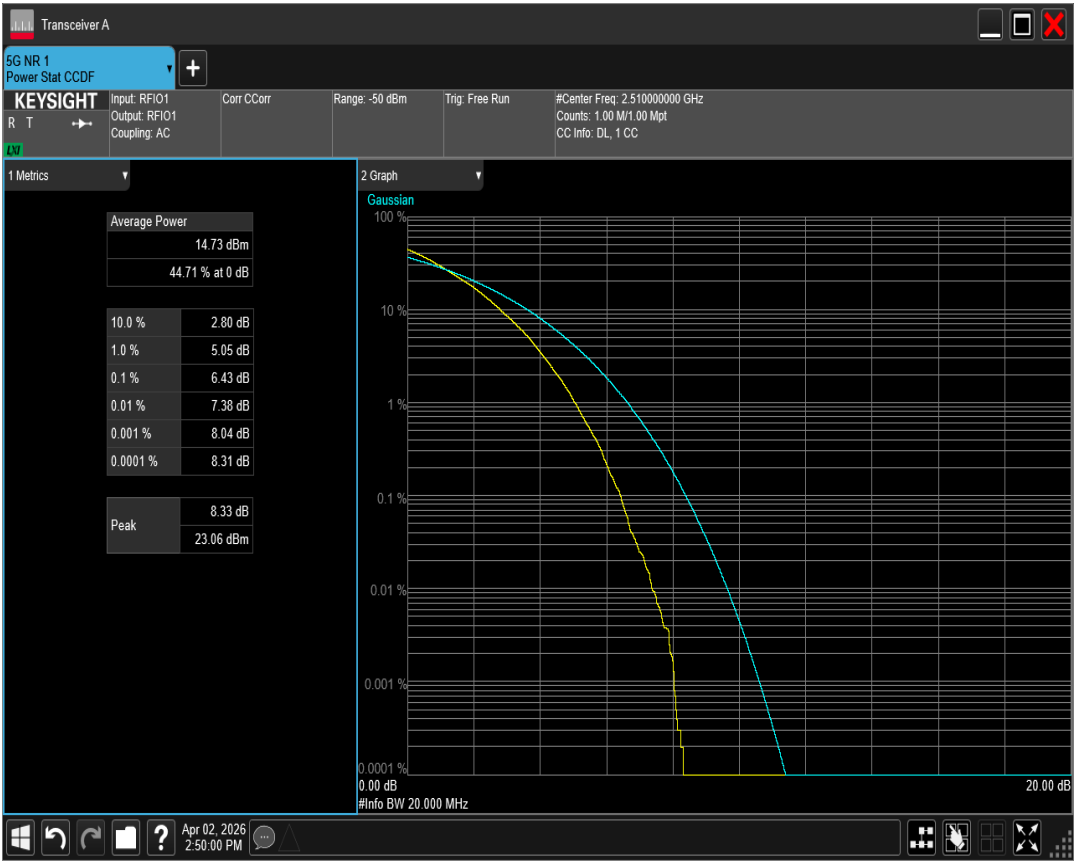
*n7 SCS=15kHz DFT\_QAM64 BW=15MHz Channel=507000 RB=75@0*



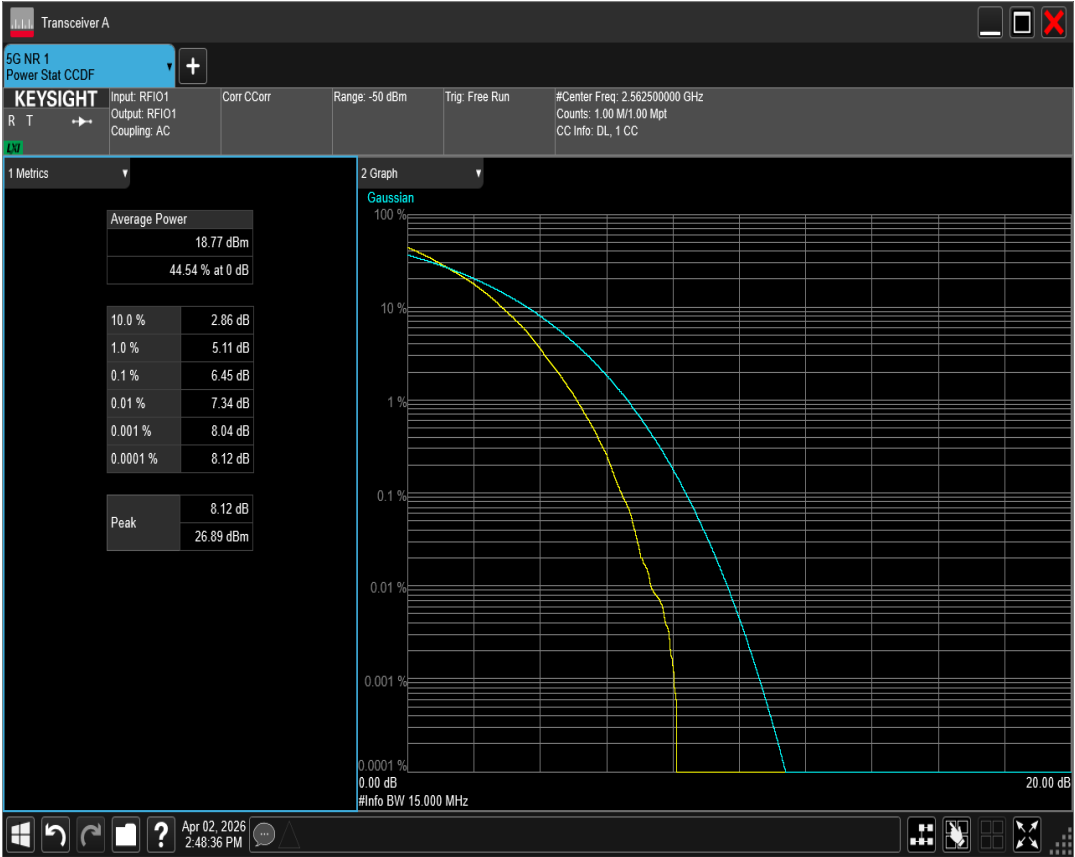
***n7 SCS=15kHz DFT\_QAM64 BW=15MHz Channel=501500 RB=75@0***



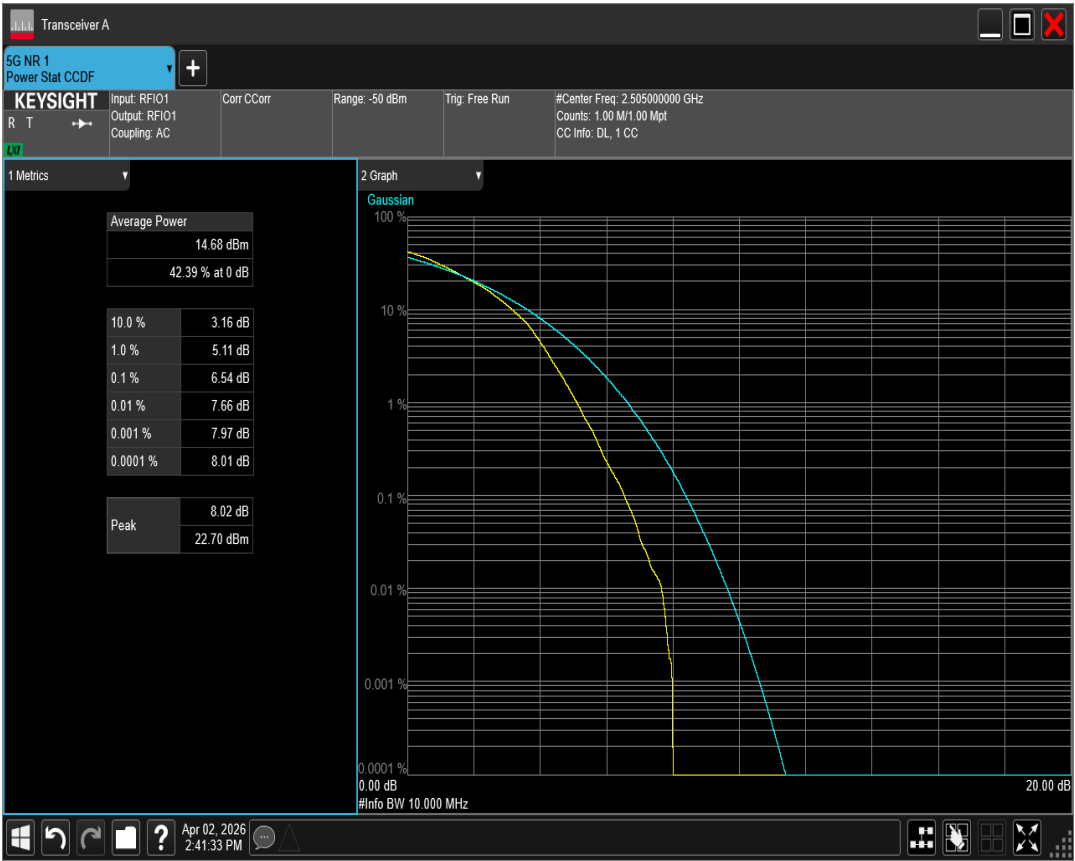
***n7 SCS=15kHz DFT\_QAM64 BW=20MHz Channel=502000 RB=100@0***



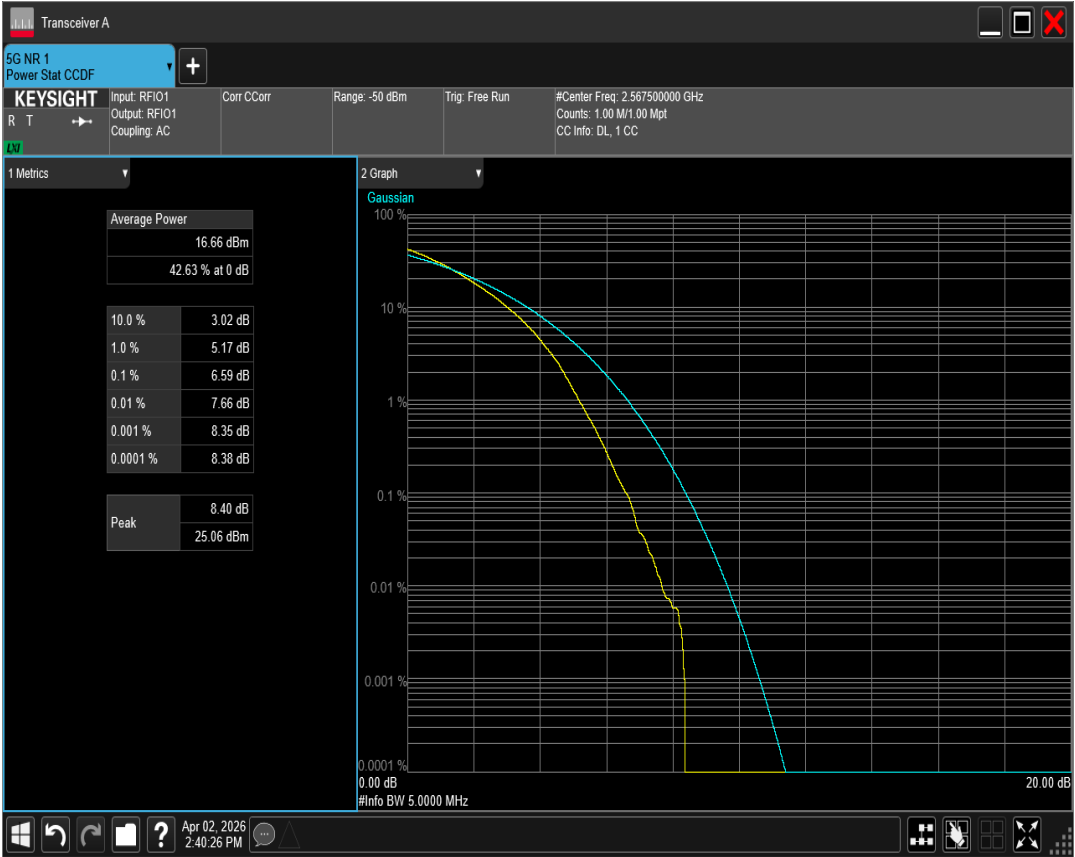
***n7 SCS=15kHz DFT\_QAM64 BW=15MHz Channel=512500 RB=75@0***



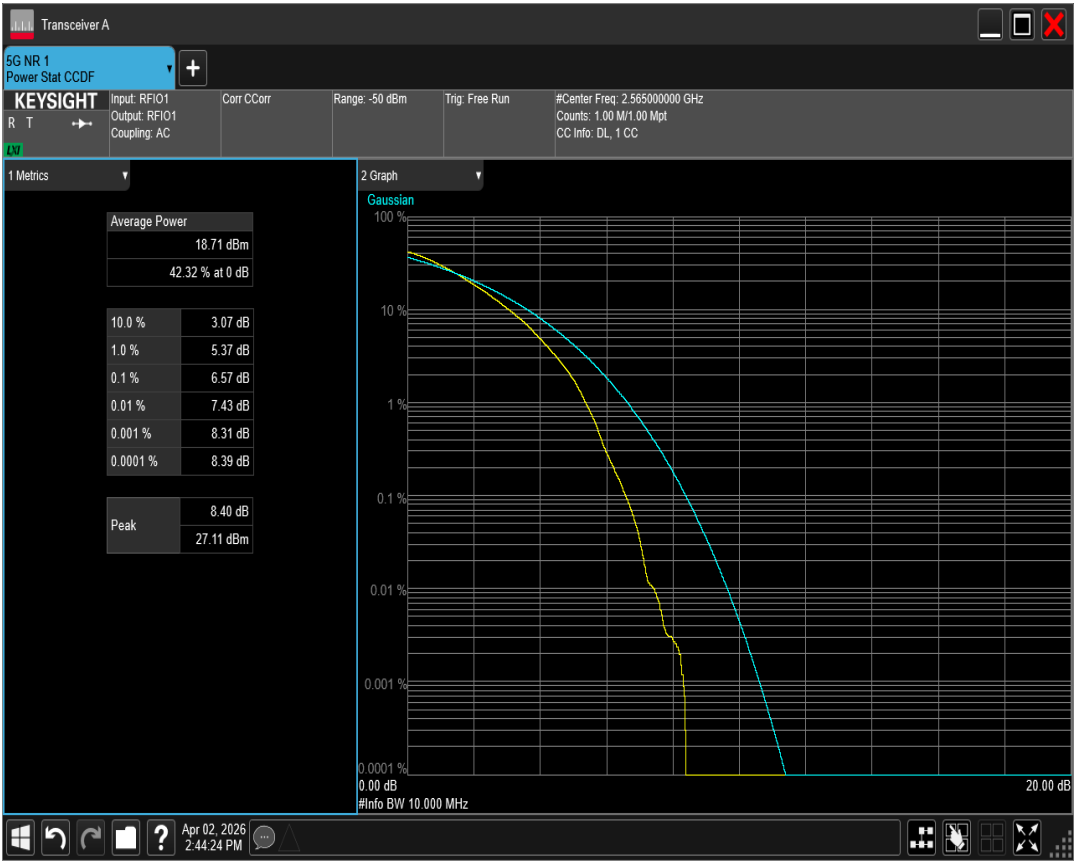
***n7 SCS=15kHz DFT\_QAM64 BW=10MHz Channel=501000 RB=50@0***



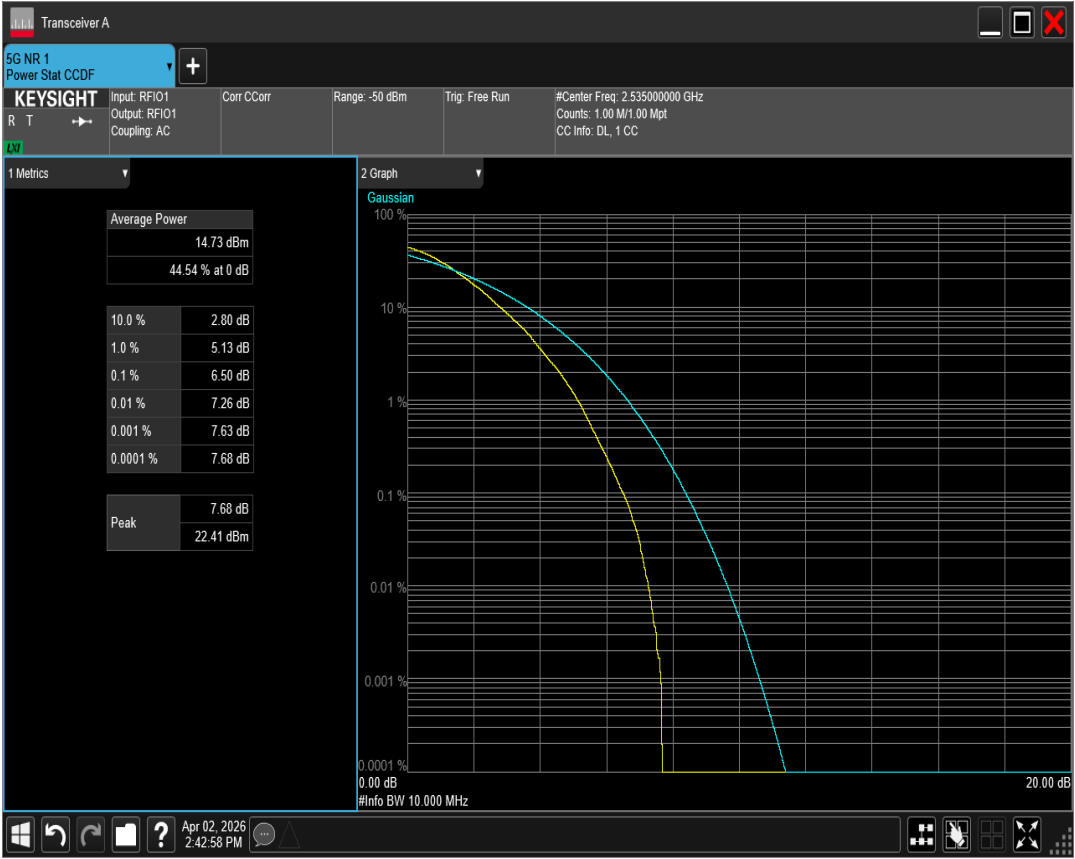
**n7 SCS=15kHz DFT\_QAM256 BW=5MHz Channel=513500 RB=25@0**



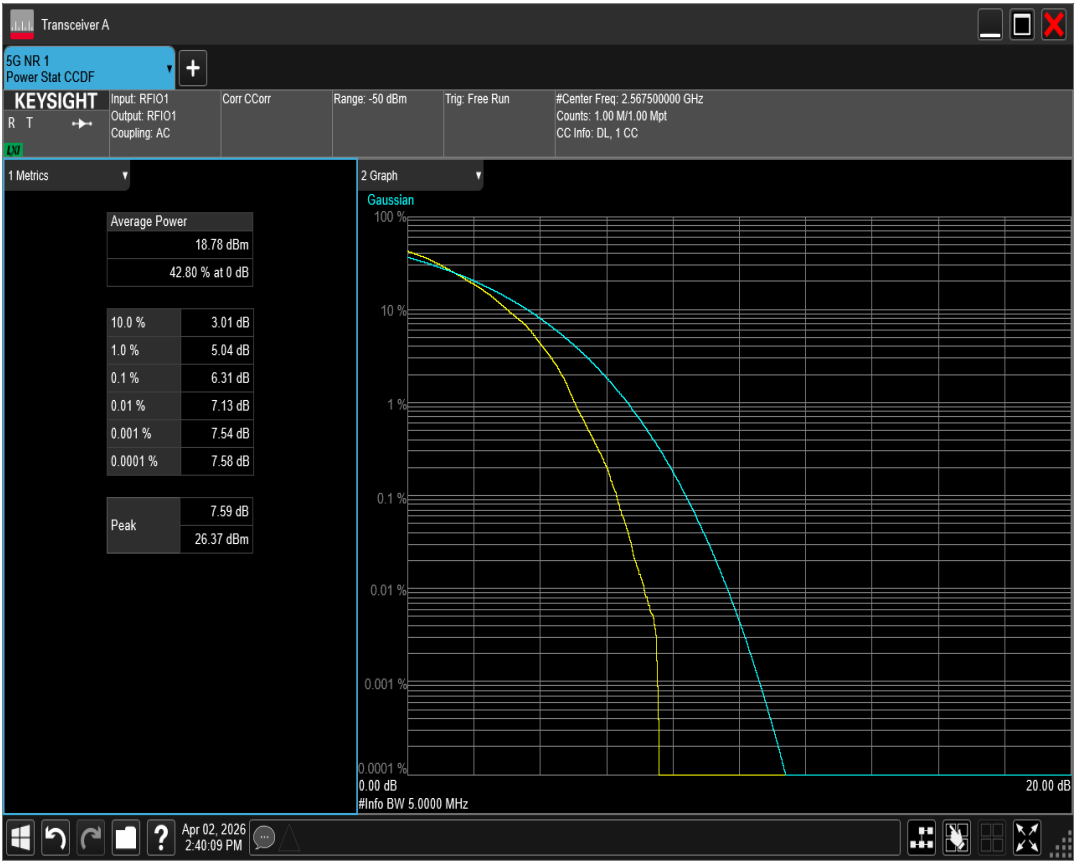
**n7 SCS=15kHz DFT\_QAM64 BW=10MHz Channel=513000 RB=50@0**



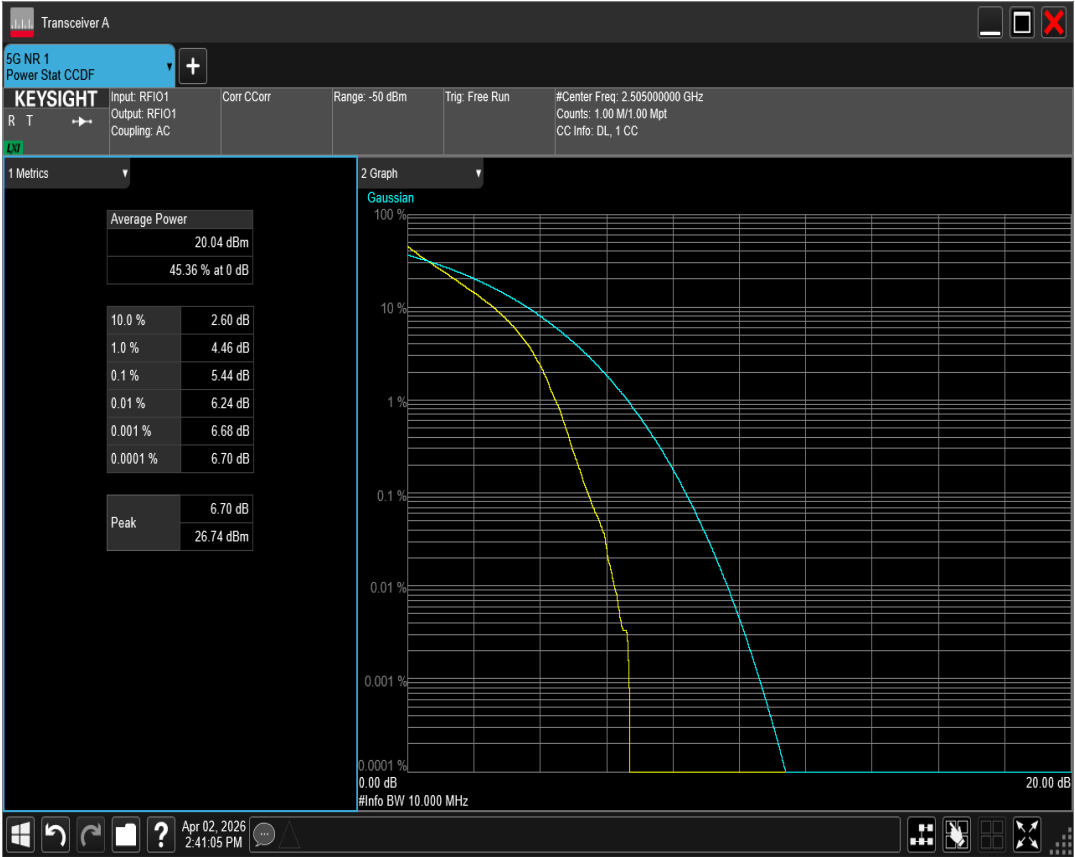
*n7 SCS=15kHz DFT\_QAM64 BW=10MHz Channel=507000 RB=50@0*



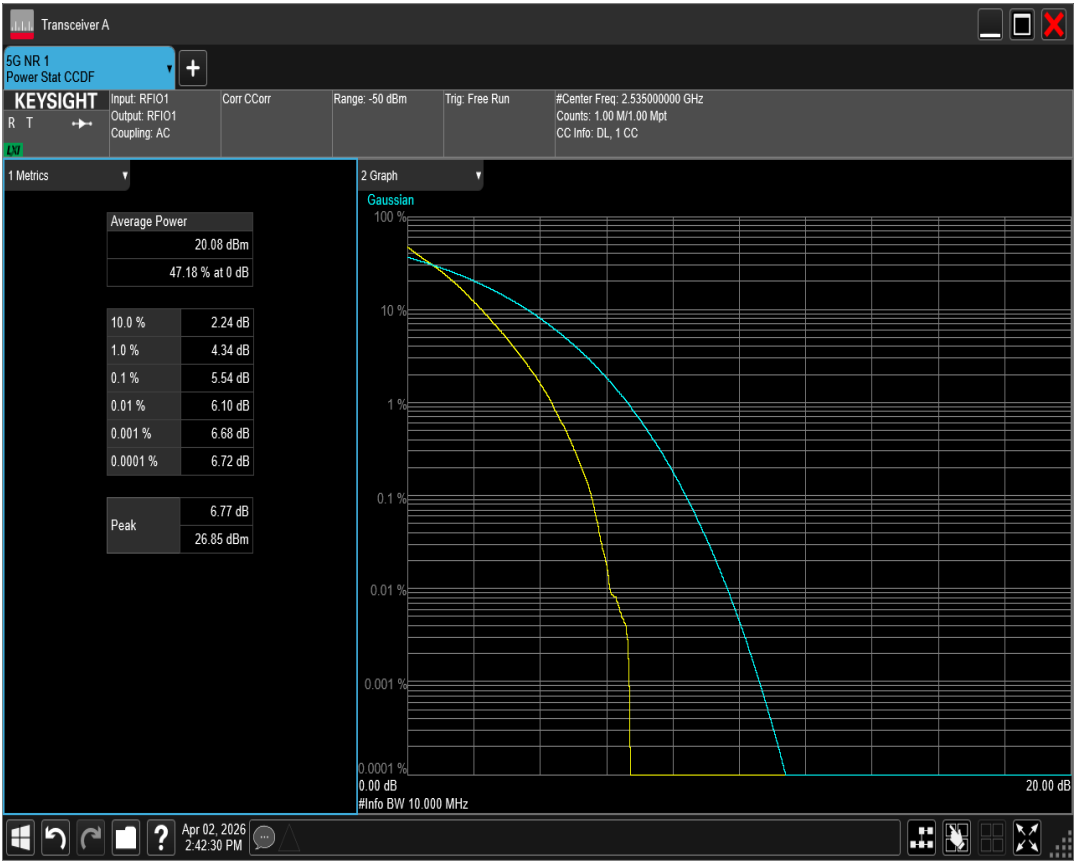
*n7 SCS=15kHz DFT\_QAM64 BW=5MHz Channel=513500 RB=25@0*



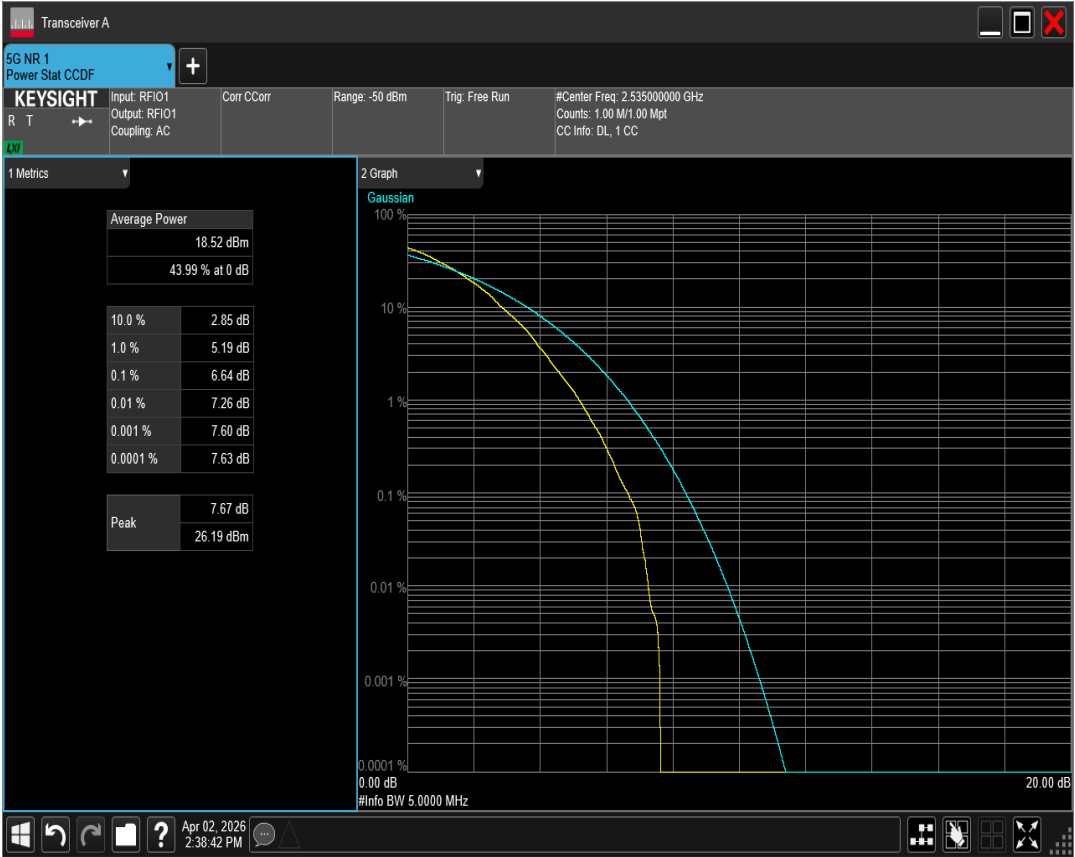
*n7 SCS=15kHz DFT\_QPSK BW=10MHz Channel=501000 RB=50@0*



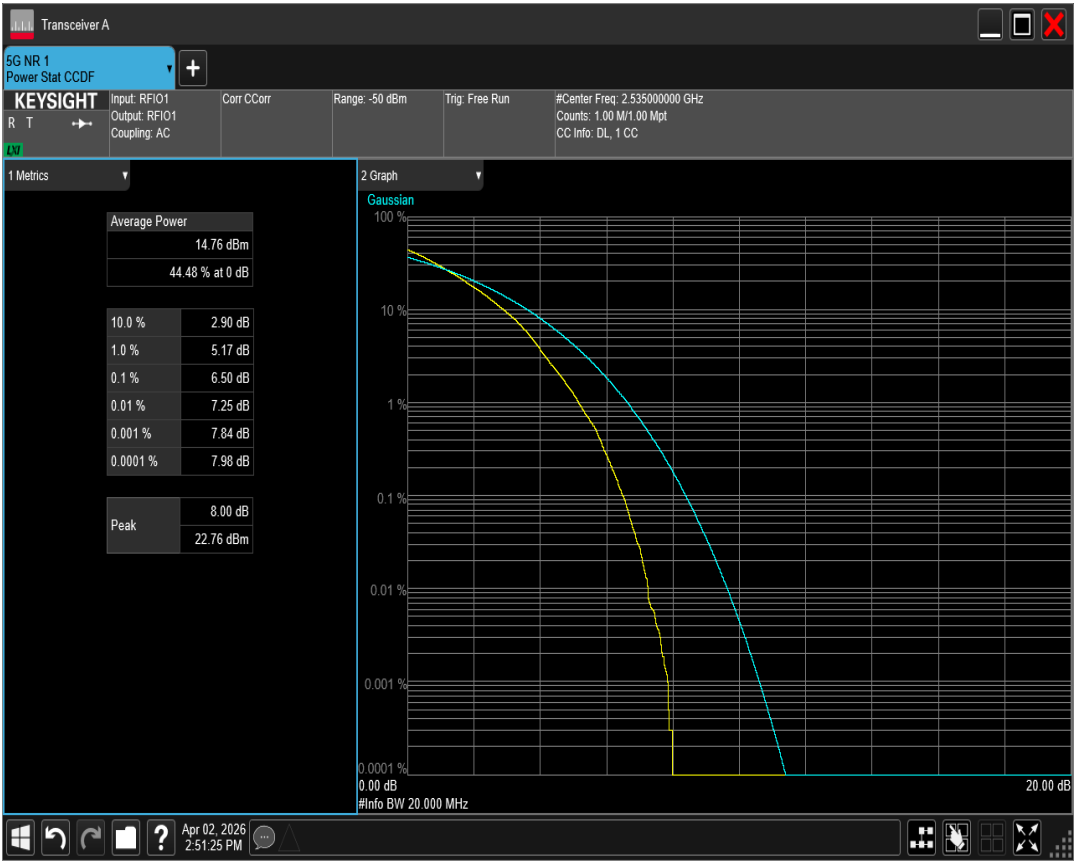
*n7 SCS=15kHz DFT\_QPSK BW=10MHz Channel=507000 RB=50@0*



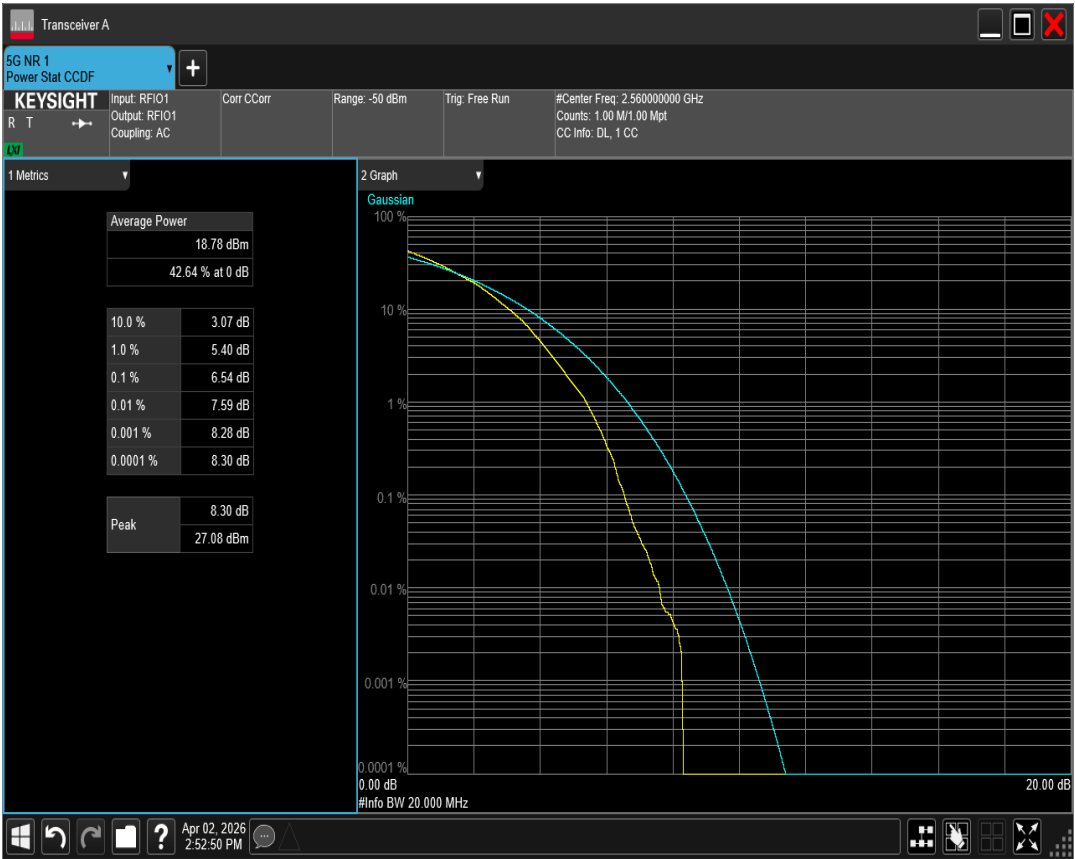
*n7 SCS=15kHz DFT\_QAM64 BW=5MHz Channel=507000 RB=25@0*



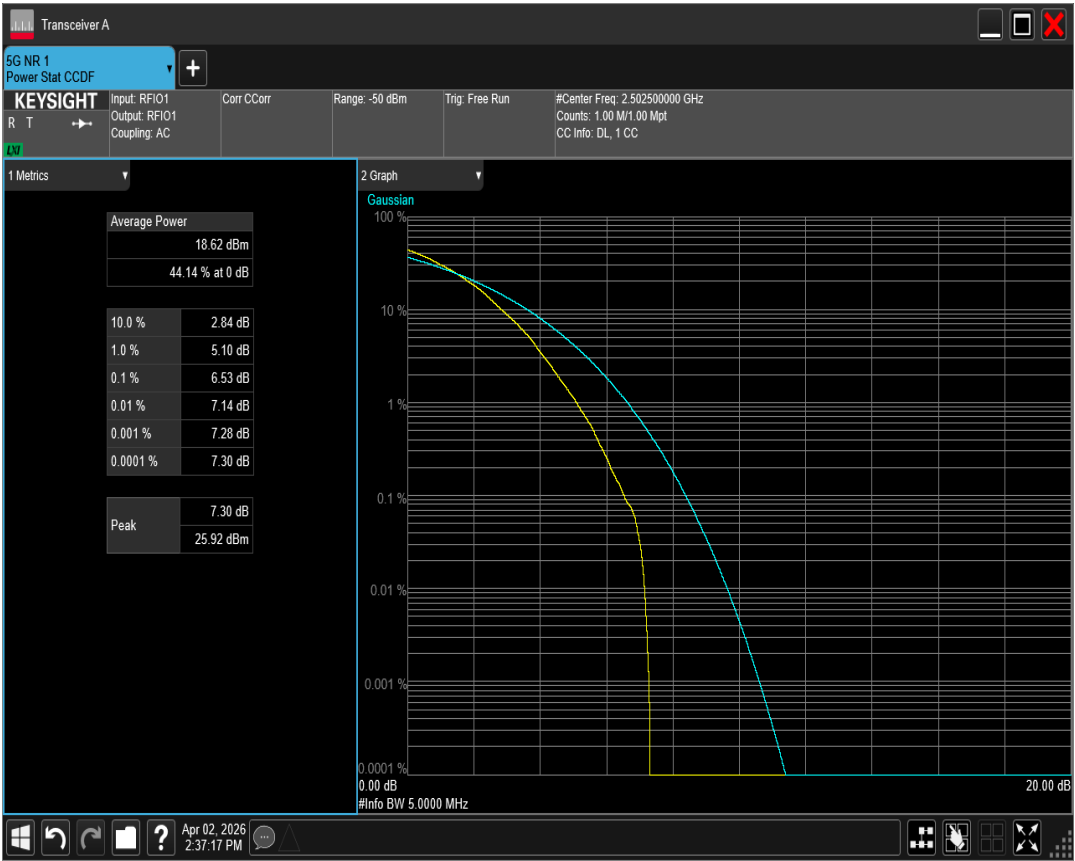
*n7 SCS=15kHz DFT\_QAM64 BW=20MHz Channel=507000 RB=100@0*



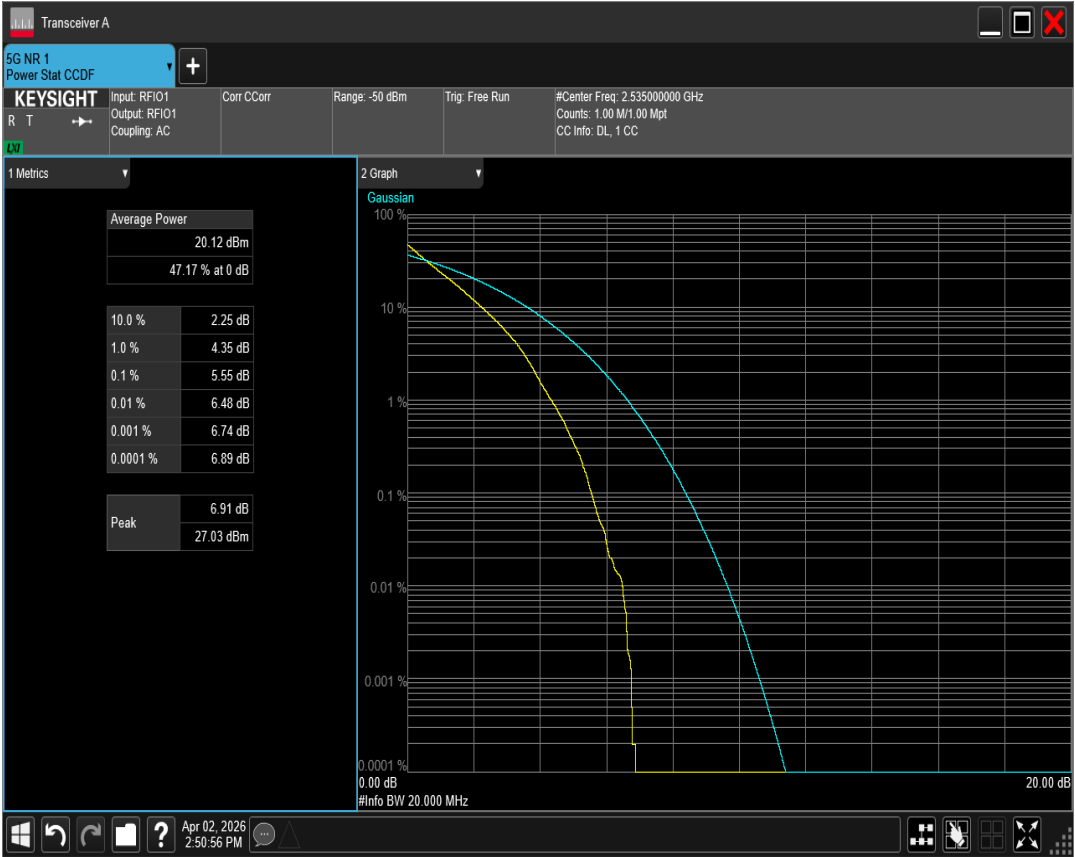
*n7 SCS=15kHz DFT\_QAM64 BW=20MHz Channel=512000 RB=100@0*



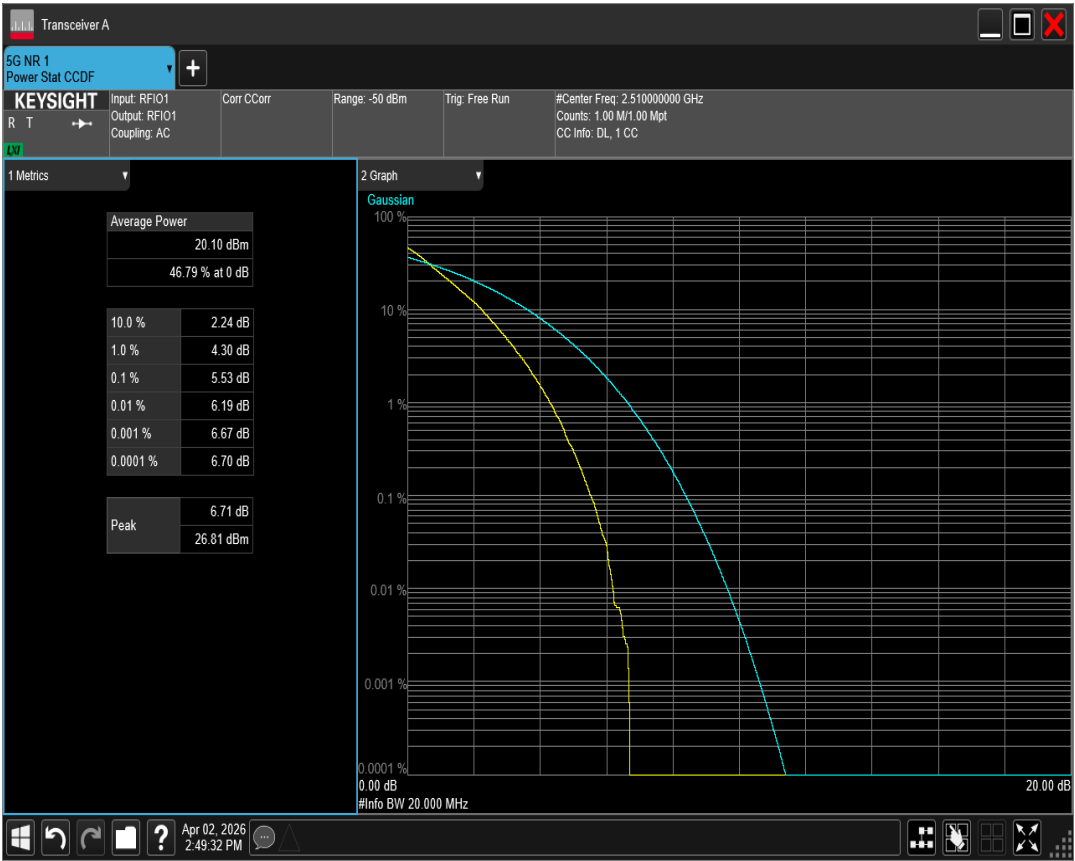
*n7 SCS=15kHz DFT\_QAM64 BW=5MHz Channel=500500 RB=25@0*



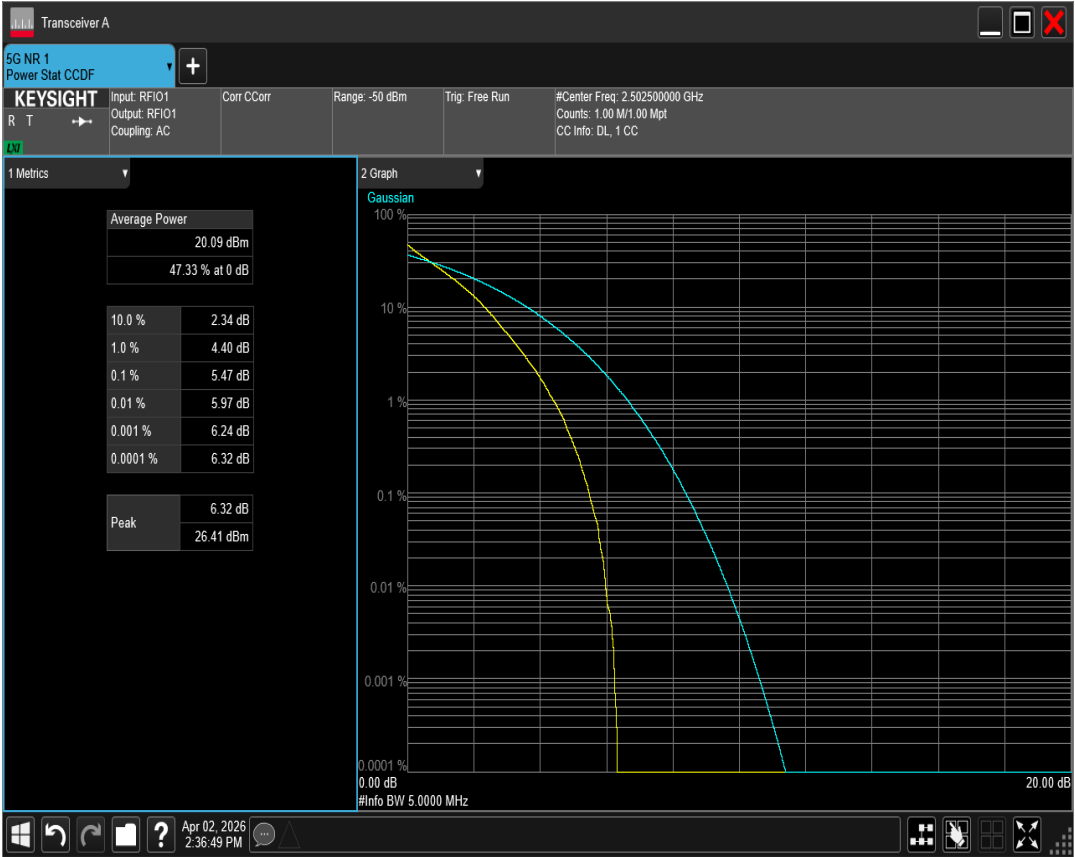
*n7 SCS=15kHz DFT\_QPSK BW=20MHz Channel=507000 RB=100@0*



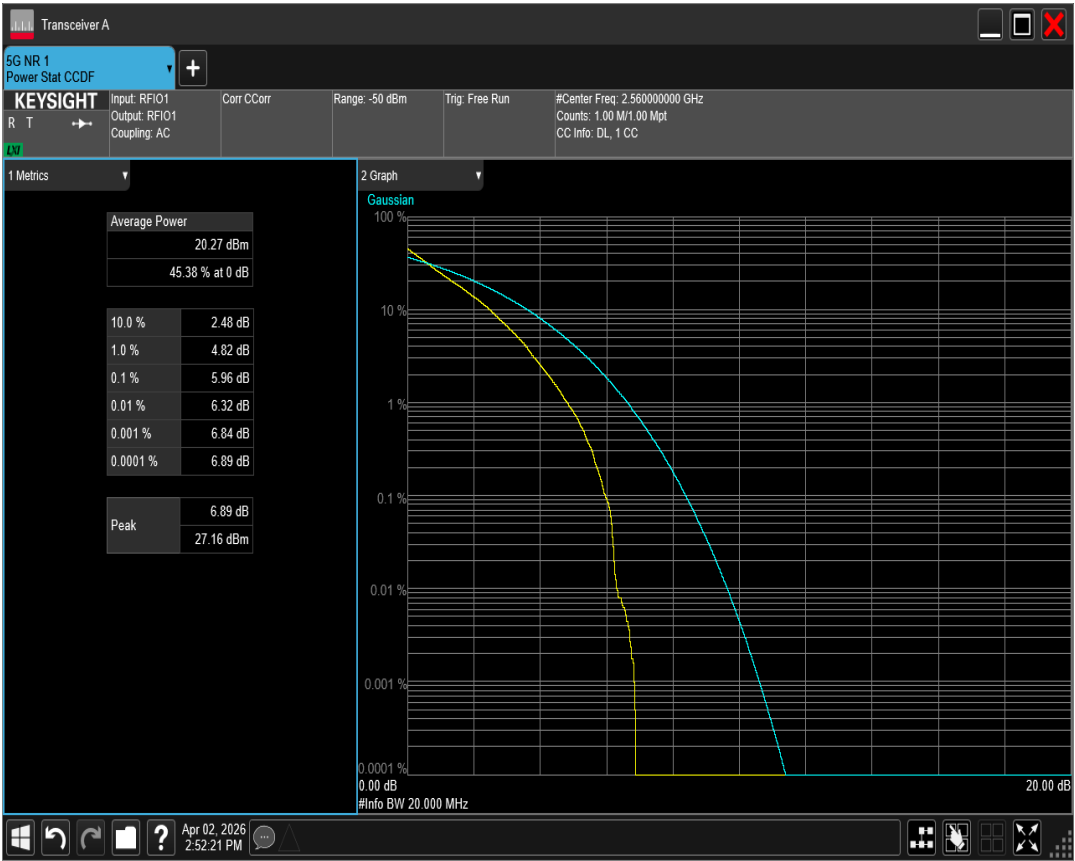
*n7 SCS=15kHz DFT\_QPSK BW=20MHz Channel=502000 RB=100@0*



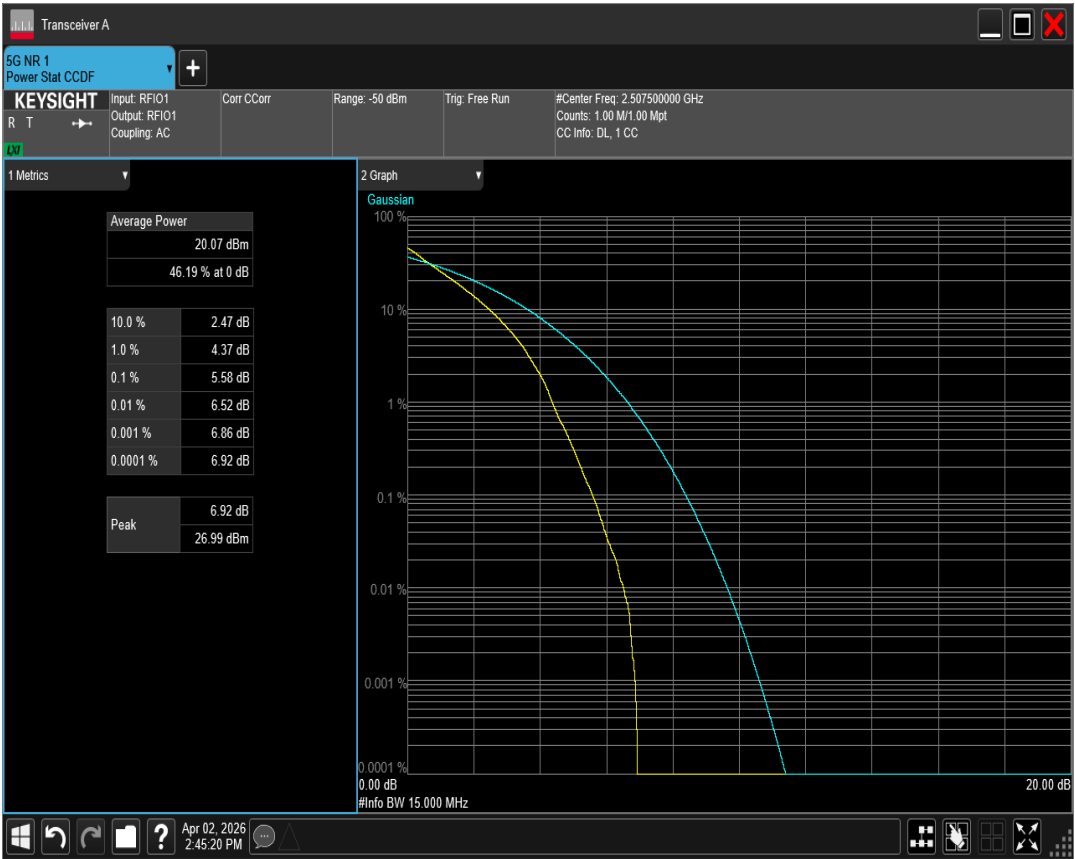
*n7 SCS=15kHz DFT\_QPSK BW=5MHz Channel=500500 RB=25@0*



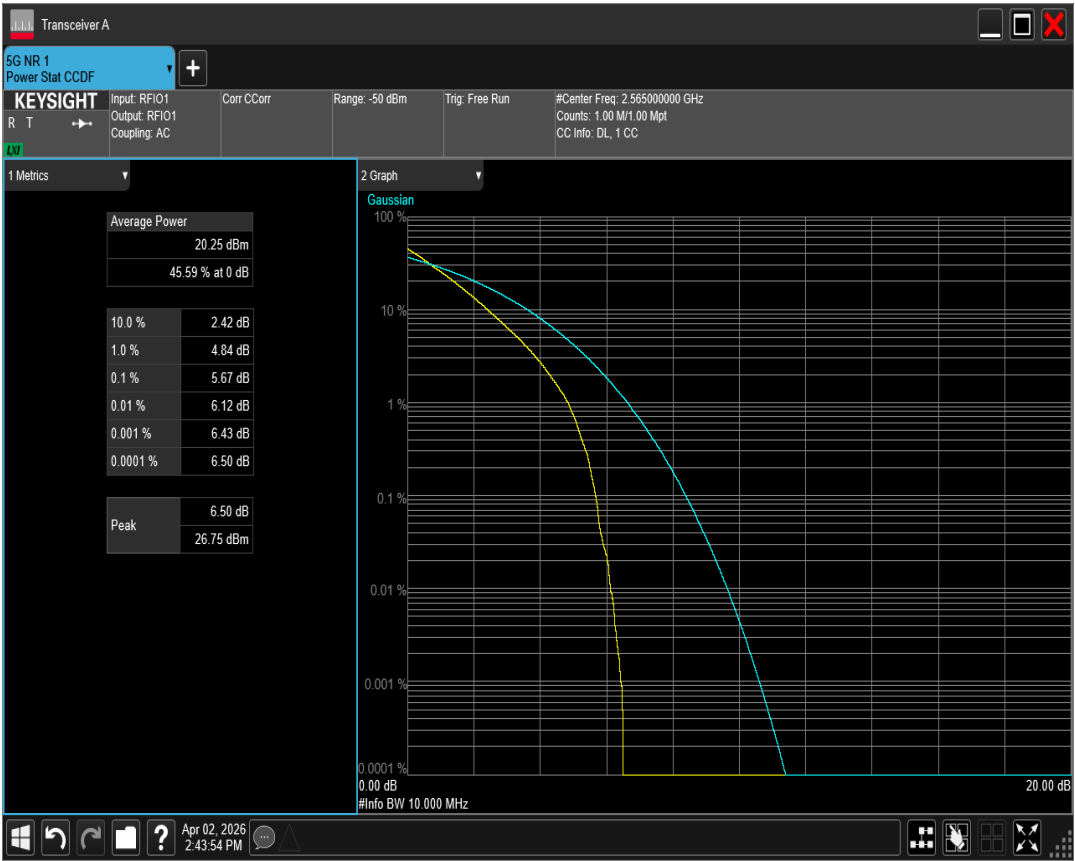
*n7 SCS=15kHz DFT\_QPSK BW=20MHz Channel=512000 RB=100@0*



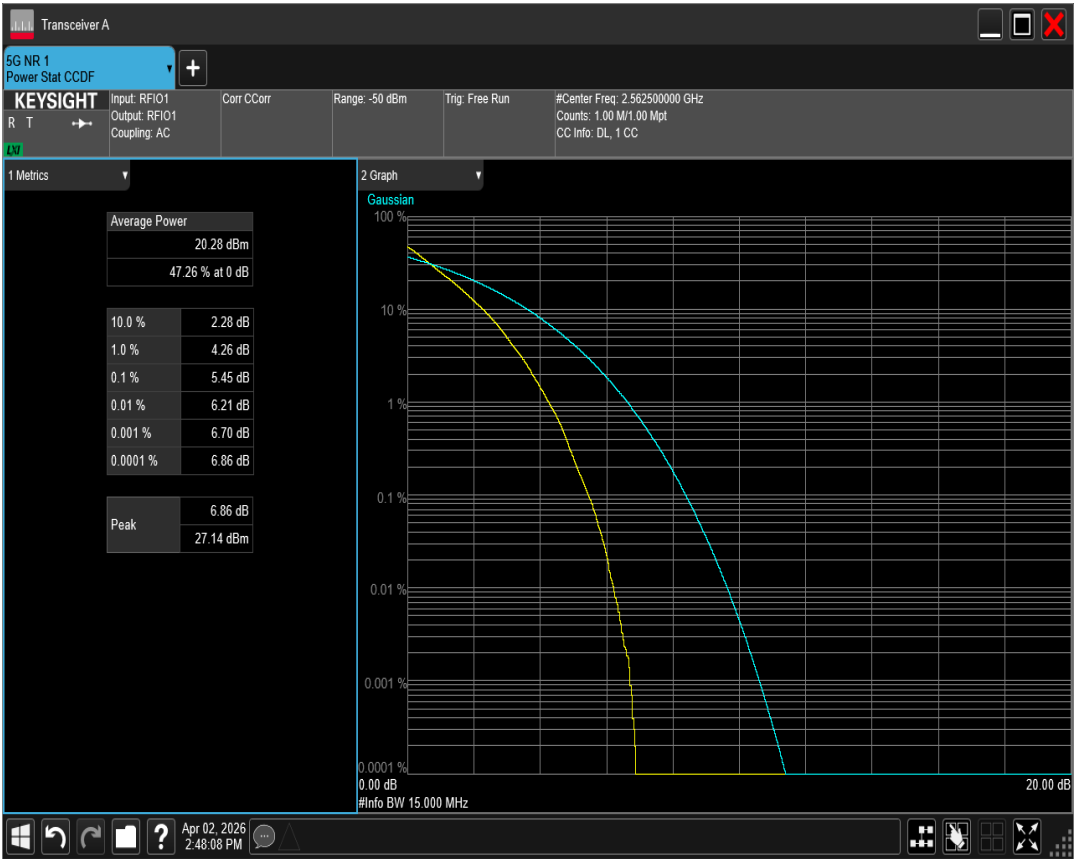
*n7 SCS=15kHz DFT\_QPSK BW=15MHz Channel=501500 RB=75@0*



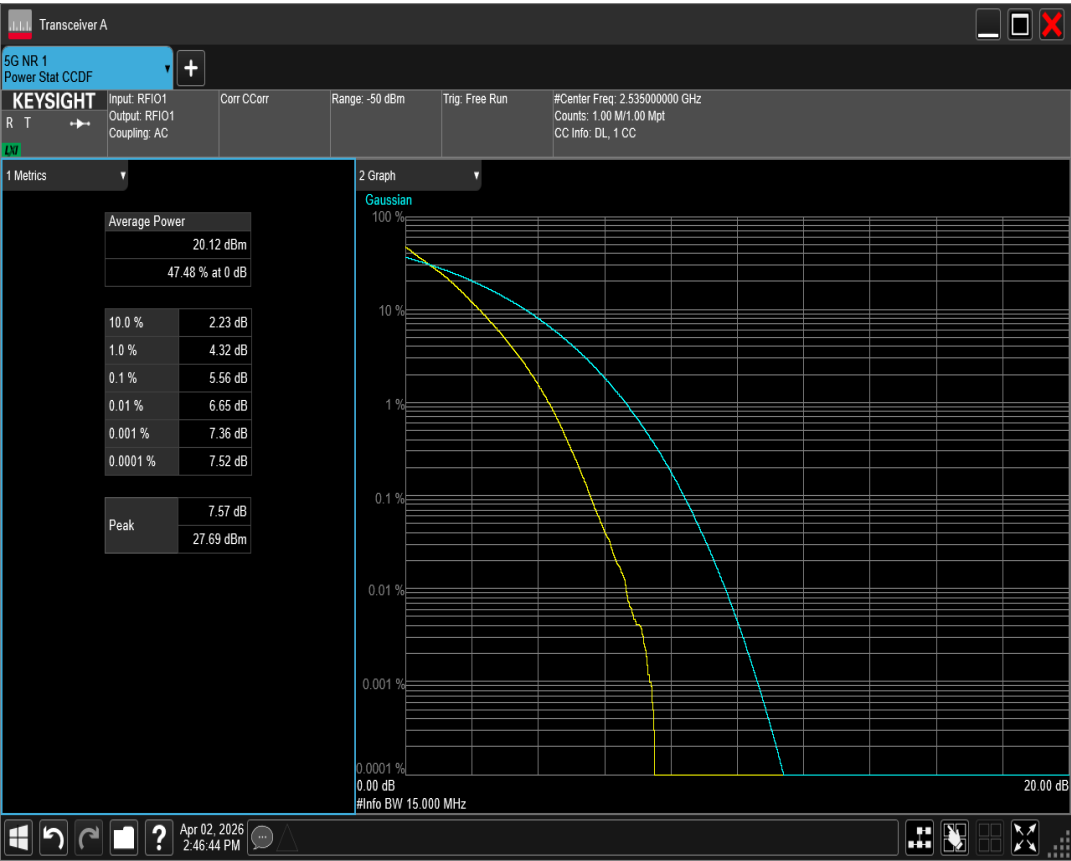
*n7 SCS=15kHz DFT\_QPSK BW=10MHz Channel=513000 RB=50@0*



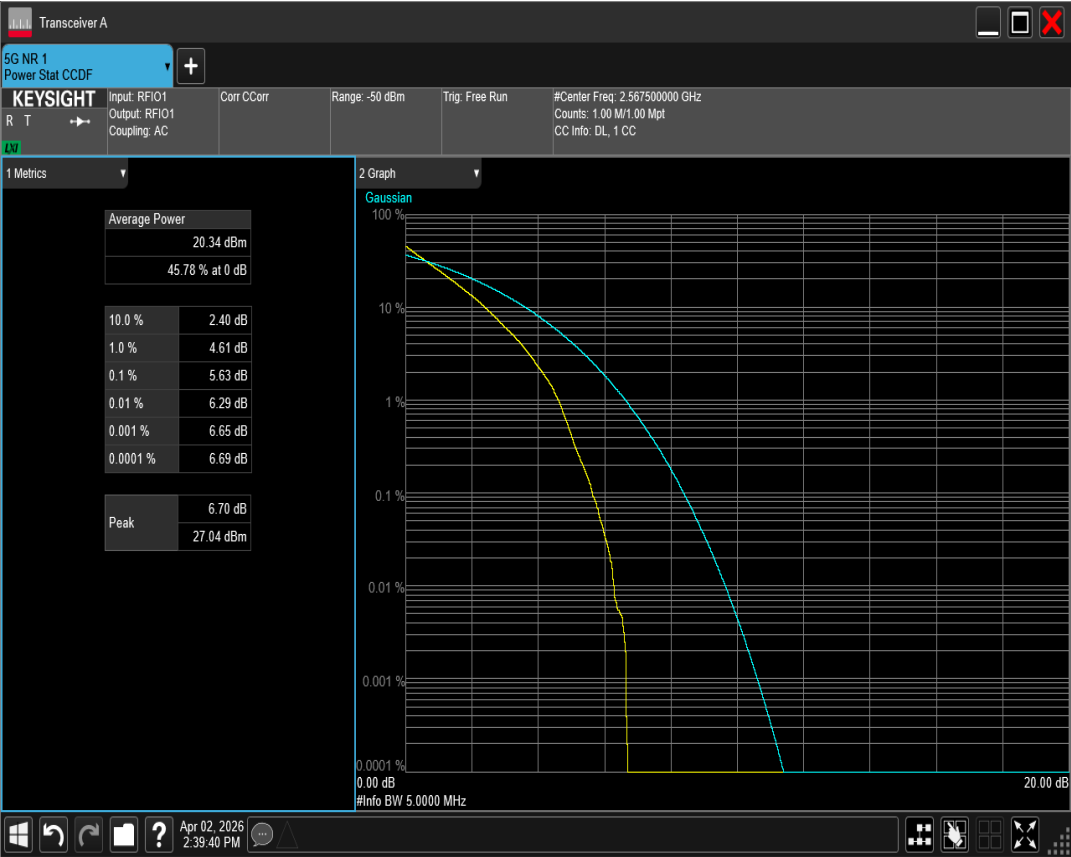
*n7 SCS=15kHz DFT\_QPSK BW=15MHz Channel=512500 RB=75@0*



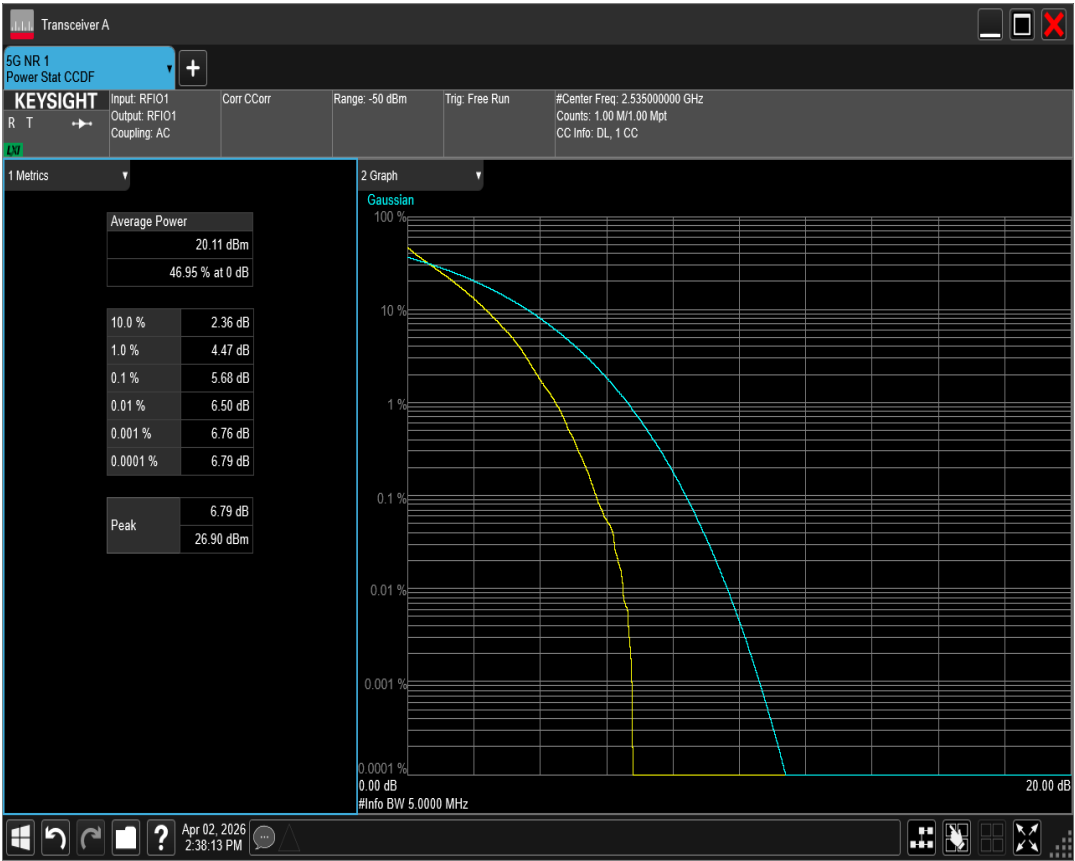
*n7 SCS=15kHz DFT\_QPSK BW=15MHz Channel=507000 RB=75@0*



*n7 SCS=15kHz DFT\_QPSK BW=5MHz Channel=513500 RB=25@0*



*n7 SCS=15kHz DFT\_QPSK BW=5MHz Channel=507000 RB=25@0*



## 4 Occupied bandwidth for EN-DC

| <b>Band</b> | <b>SCS<br/>(kHz)</b> | <b>Bandwidth<br/>(MHz)</b> | <b>UL<br/>Channel</b> | <b>RB<br/>Allocation</b> | <b>Modulation</b> | <b>99%<br/>OBW<br/>(MHz)</b> | <b>-26dB<br/>EBW<br/>(MHz)</b> | <b>Verdict</b> |
|-------------|----------------------|----------------------------|-----------------------|--------------------------|-------------------|------------------------------|--------------------------------|----------------|
| n7          | 15                   | 5                          | 507000                | 25@0                     | DFT_BPSK          | 4.460                        | 4.610                          | PASS           |
| n7          | 15                   | 5                          | 507000                | 25@0                     | DFT_QPSK          | 4.480                        | 4.670                          | PASS           |
| n7          | 15                   | 5                          | 507000                | 25@0                     | DFT_QAM16         | 4.460                        | 4.650                          | PASS           |
| n7          | 15                   | 5                          | 507000                | 25@0                     | DFT_QAM64         | 4.460                        | 4.630                          | PASS           |
| n7          | 15                   | 5                          | 507000                | 25@0                     | DFT_QAM256        | 4.470                        | 4.640                          | PASS           |
| n7          | 15                   | 10                         | 507000                | 50@0                     | DFT_BPSK          | 9.240                        | 9.120                          | PASS           |
| n7          | 15                   | 10                         | 507000                | 50@0                     | DFT_QPSK          | 9.150                        | 9.110                          | PASS           |
| n7          | 15                   | 10                         | 507000                | 50@0                     | DFT_QAM16         | 9.250                        | 9.150                          | PASS           |
| n7          | 15                   | 10                         | 507000                | 50@0                     | DFT_QAM64         | 9.220                        | 9.160                          | PASS           |
| n7          | 15                   | 10                         | 507000                | 50@0                     | DFT_QAM256        | 9.190                        | 9.150                          | PASS           |
| n7          | 15                   | 15                         | 507000                | 75@0                     | DFT_BPSK          | 14.030                       | 13.660                         | PASS           |
| n7          | 15                   | 15                         | 507000                | 75@0                     | DFT_QPSK          | 13.940                       | 13.660                         | PASS           |
| n7          | 15                   | 15                         | 507000                | 75@0                     | DFT_QAM16         | 13.910                       | 13.650                         | PASS           |
| n7          | 15                   | 15                         | 507000                | 75@0                     | DFT_QAM64         | 13.970                       | 13.600                         | PASS           |
| n7          | 15                   | 15                         | 507000                | 75@0                     | DFT_QAM256        | 13.930                       | 13.630                         | PASS           |
| n7          | 15                   | 20                         | 507000                | 100@0                    | DFT_BPSK          | 18.730                       | 18.170                         | PASS           |
| n7          | 15                   | 20                         | 507000                | 100@0                    | DFT_QPSK          | 18.810                       | 18.120                         | PASS           |
| n7          | 15                   | 20                         | 507000                | 100@0                    | DFT_QAM16         | 18.720                       | 18.120                         | PASS           |
| n7          | 15                   | 20                         | 507000                | 100@0                    | DFT_QAM64         | 18.810                       | 18.080                         | PASS           |
| n7          | 15                   | 20                         | 507000                | 100@0                    | DFT_QAM256        | 18.810                       | 18.180                         | PASS           |

**n7 SCS=15kHz DFT\_BPSK BW=10MHz Channel=507000 RB=50@0**



n7 SCS=15kHz DFT\_BPSK BW=15MHz Channel=507000 RB=75@0



n7 SCS=15kHz DFT\_BPSK BW=20MHz Channel=507000 RB=100@0



*n7 SCS=15kHz DFT\_BPSK BW=5MHz Channel=507000 RB=25@0*



*n7 SCS=15kHz DFT\_QAM16 BW=10MHz Channel=507000 RB=50@0*



n7 SCS=15kHz DFT\_QAM16 BW=5MHz Channel=507000 RB=25@0



n7 SCS=15kHz DFT\_QAM16 BW=20MHz Channel=507000 RB=100@0



*n7 SCS=15kHz DFT\_QAM16 BW=15MHz Channel=507000 RB=75@0*



*n7 SCS=15kHz DFT\_QAM256 BW=10MHz Channel=507000 RB=50@0*



n7 SCS=15kHz DFT\_QAM256 BW=20MHz Channel=507000 RB=100@0



n7 SCS=15kHz DFT\_QAM256 BW=15MHz Channel=507000 RB=75@0



n7 SCS=15kHz DFT\_QAM64 BW=10MHz Channel=507000 RB=50@0



n7 SCS=15kHz DFT\_QAM256 BW=5MHz Channel=507000 RB=25@0



*n7 SCS=15kHz DFT\_QAM64 BW=20MHz Channel=507000 RB=100@0*



*n7 SCS=15kHz DFT\_QAM64 BW=15MHz Channel=507000 RB=75@0*



n7 SCS=15kHz DFT\_QPSK BW=10MHz Channel=507000 RB=50@0



n7 SCS=15kHz DFT\_QAM64 BW=5MHz Channel=507000 RB=25@0



*n7 SCS=15kHz DFT\_QPSK BW=20MHz Channel=507000 RB=100@0*



*n7 SCS=15kHz DFT\_QPSK BW=15MHz Channel=507000 RB=75@0*



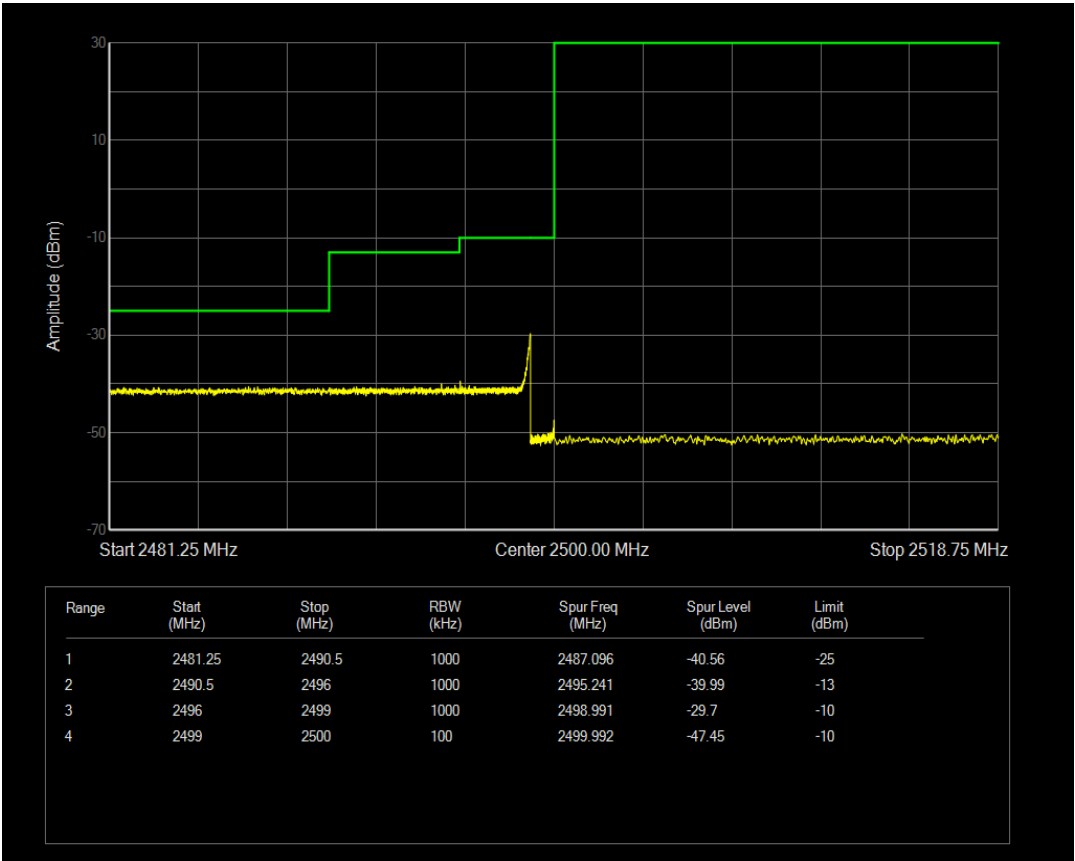
n7 SCS=15kHz DFT\_QPSK BW=5MHz Channel=507000 RB=25@0



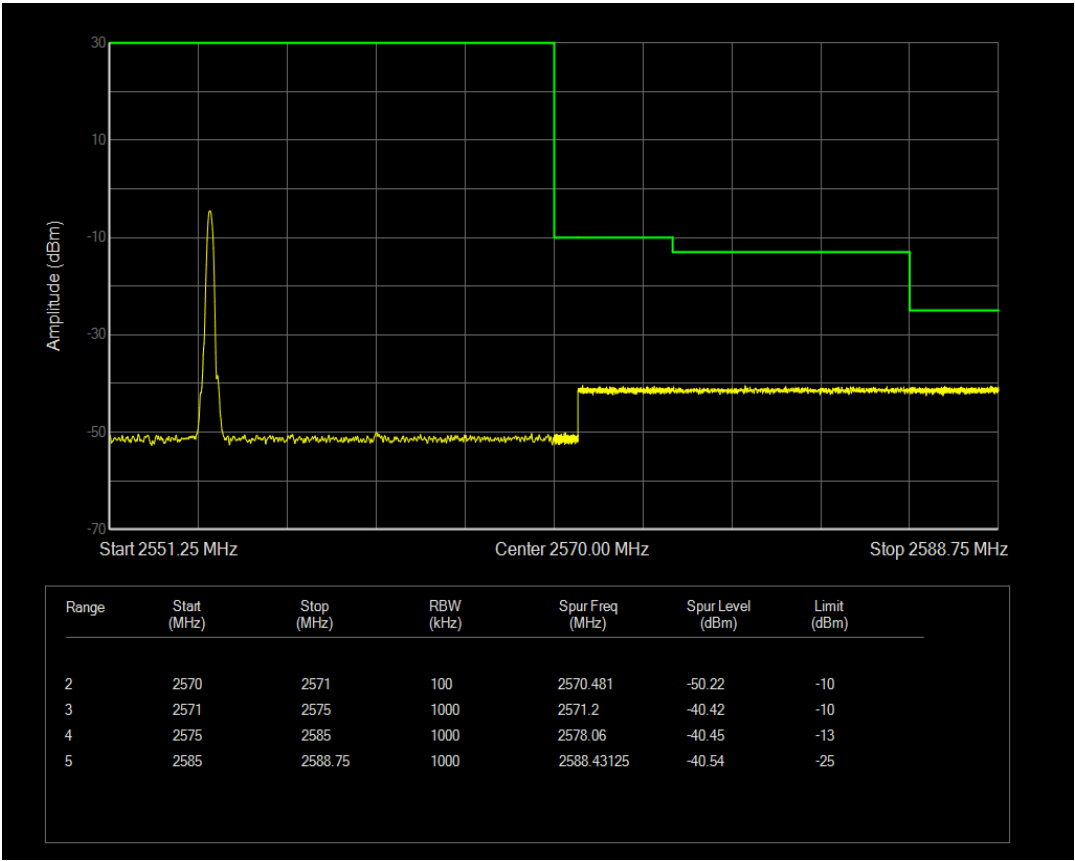
## 5 Band edge for EN-DC

| <b>Band</b> | <b>SCS<br/>(kHz)</b> | <b>Bandwidth<br/>(MHz)</b> | <b>UL<br/>Channel</b> | <b>RB<br/>Allocation</b> | <b>Modulation</b> | <b>Spur<br/>Freq<br/>(MHz)</b> | <b>Spur<br/>Level<br/>(dBm)</b> | <b>Limit<br/>(dBm)</b> | <b>Verdict</b> |
|-------------|----------------------|----------------------------|-----------------------|--------------------------|-------------------|--------------------------------|---------------------------------|------------------------|----------------|
| n7          | 15                   | 5                          | 500500                | 25@0                     | CP_QPSK           | 2490.38                        | -40.56                          | -25                    | PASS           |
| n7          | 15                   | 5                          | 500500                | 1@0                      | CP_QPSK           | 2499.00                        | -24.39                          | -10                    | PASS           |
| n7          | 15                   | 5                          | 500500                | 1@24                     | CP_QPSK           | 2491.40                        | -40.57                          | -25                    | PASS           |
| n7          | 15                   | 5                          | 513500                | 25@0                     | CP_QPSK           | 2577.11                        | -40.60                          | -25                    | PASS           |
| n7          | 15                   | 5                          | 513500                | 1@0                      | CP_QPSK           | 2579.12                        | -40.39                          | -25                    | PASS           |
| n7          | 15                   | 5                          | 513500                | 1@24                     | CP_QPSK           | 2578.68                        | -40.60                          | -25                    | PASS           |
| n7          | 15                   | 15                         | 501500                | 79@0                     | CP_QPSK           | 2487.56                        | -40.67                          | -25                    | PASS           |
| n7          | 15                   | 15                         | 501500                | 1@0                      | CP_QPSK           | 2487.10                        | -40.56                          | -25                    | PASS           |
| n7          | 15                   | 15                         | 501500                | 1@78                     | CP_QPSK           | 2488.91                        | -40.62                          | -25                    | PASS           |
| n7          | 15                   | 15                         | 512500                | 79@0                     | CP_QPSK           | 2586.47                        | -40.55                          | -25                    | PASS           |
| n7          | 15                   | 15                         | 512500                | 1@0                      | CP_QPSK           | 2588.43                        | -40.54                          | -25                    | PASS           |
| n7          | 15                   | 15                         | 512500                | 1@78                     | CP_QPSK           | 2586.91                        | -40.44                          | -25                    | PASS           |
| n7          | 15                   | 20                         | 502000                | 106@0                    | CP_QPSK           | 2484.47                        | -40.71                          | -25                    | PASS           |
| n7          | 15                   | 20                         | 502000                | 1@0                      | CP_QPSK           | 2486.39                        | -40.44                          | -25                    | PASS           |
| n7          | 15                   | 20                         | 502000                | 1@105                    | CP_QPSK           | 2483.35                        | -40.71                          | -25                    | PASS           |
| n7          | 15                   | 20                         | 512000                | 106@0                    | CP_QPSK           | 2592.33                        | -40.24                          | -25                    | PASS           |
| n7          | 15                   | 20                         | 512000                | 1@0                      | CP_QPSK           | 2592.37                        | -40.53                          | -25                    | PASS           |
| n7          | 15                   | 20                         | 512000                | 1@105                    | CP_QPSK           | 2590.40                        | -40.48                          | -25                    | PASS           |

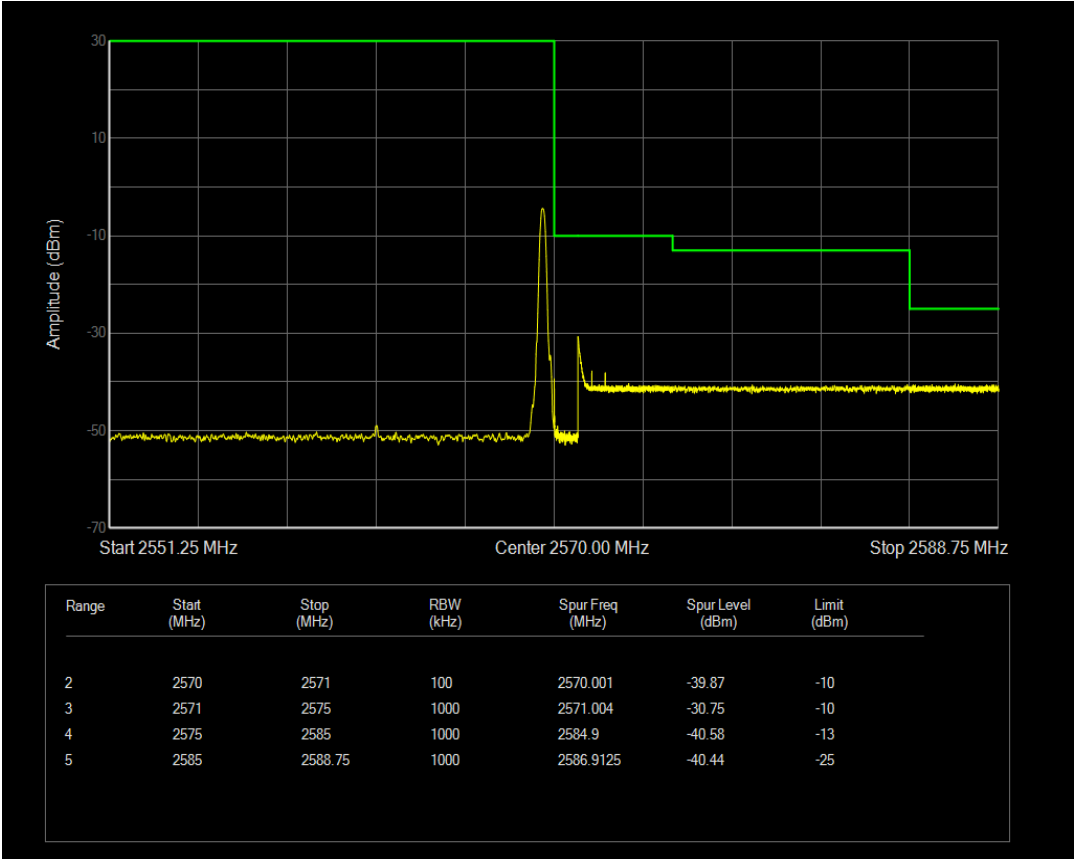
**n7 SCS=15kHz CP\_QPSK BW=15MHz Channel=501500 RB=1@0**



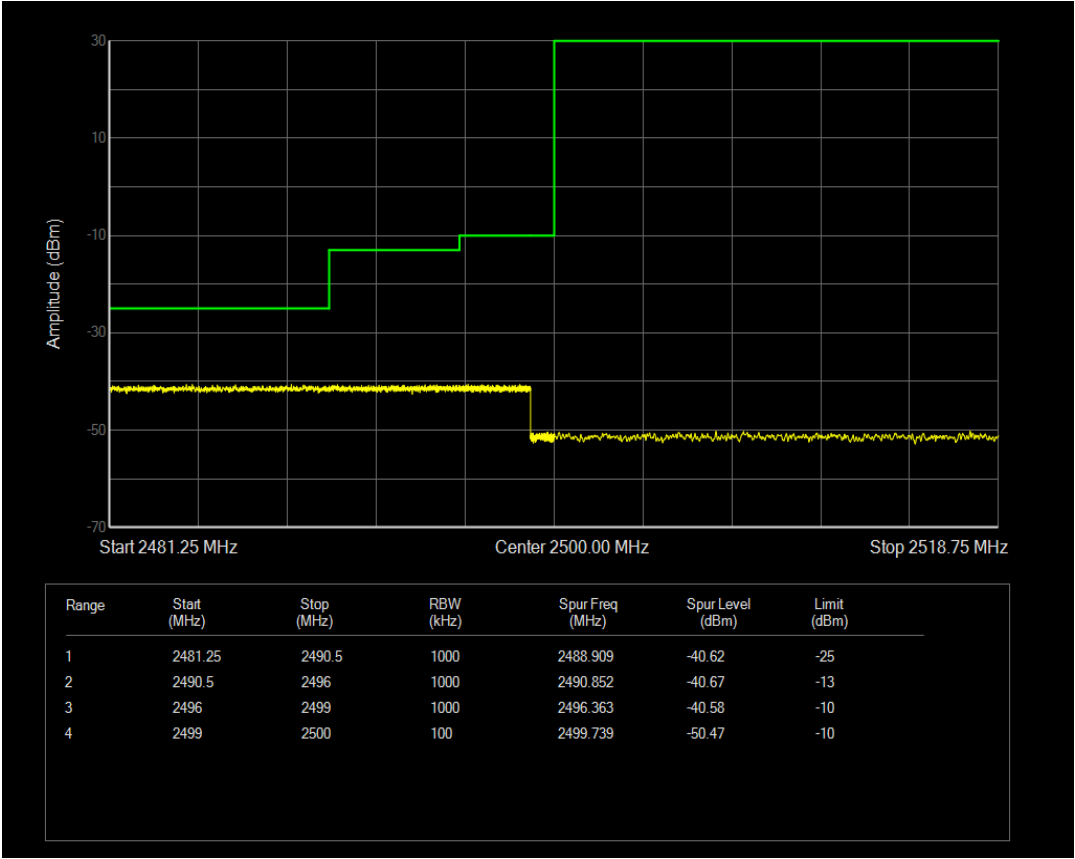
n7 SCS=15kHz CP\_QPSK BW=15MHz Channel=512500 RB=1@0



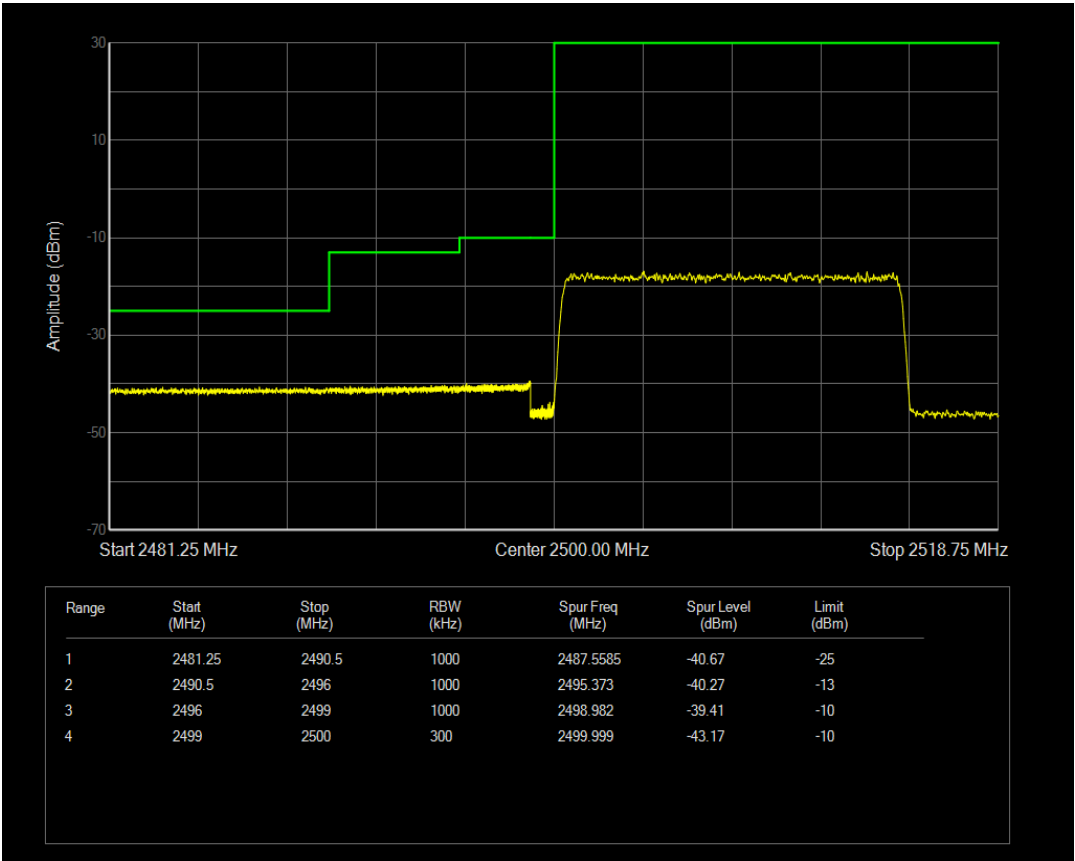
n7 SCS=15kHz CP\_QPSK BW=15MHz Channel=512500 RB=1@78



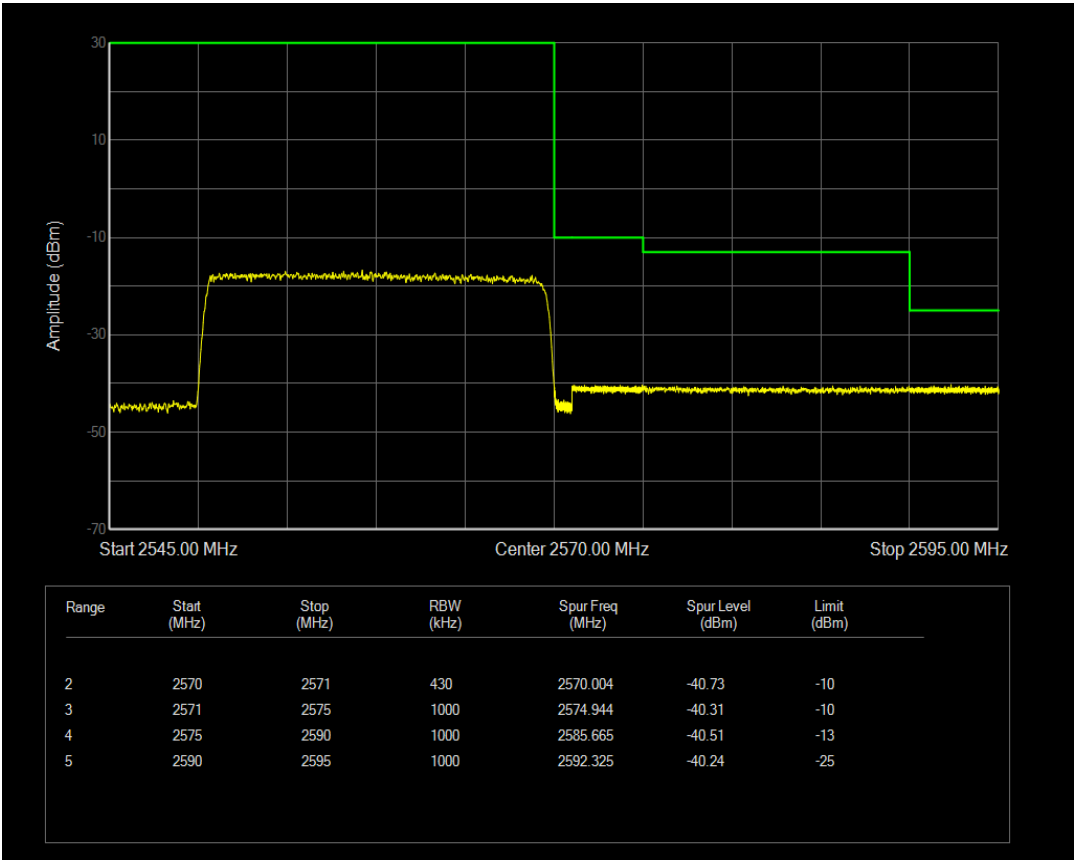
*n7 SCS=15kHz CP\_QPSK BW=15MHz Channel=501500 RB=1@78*



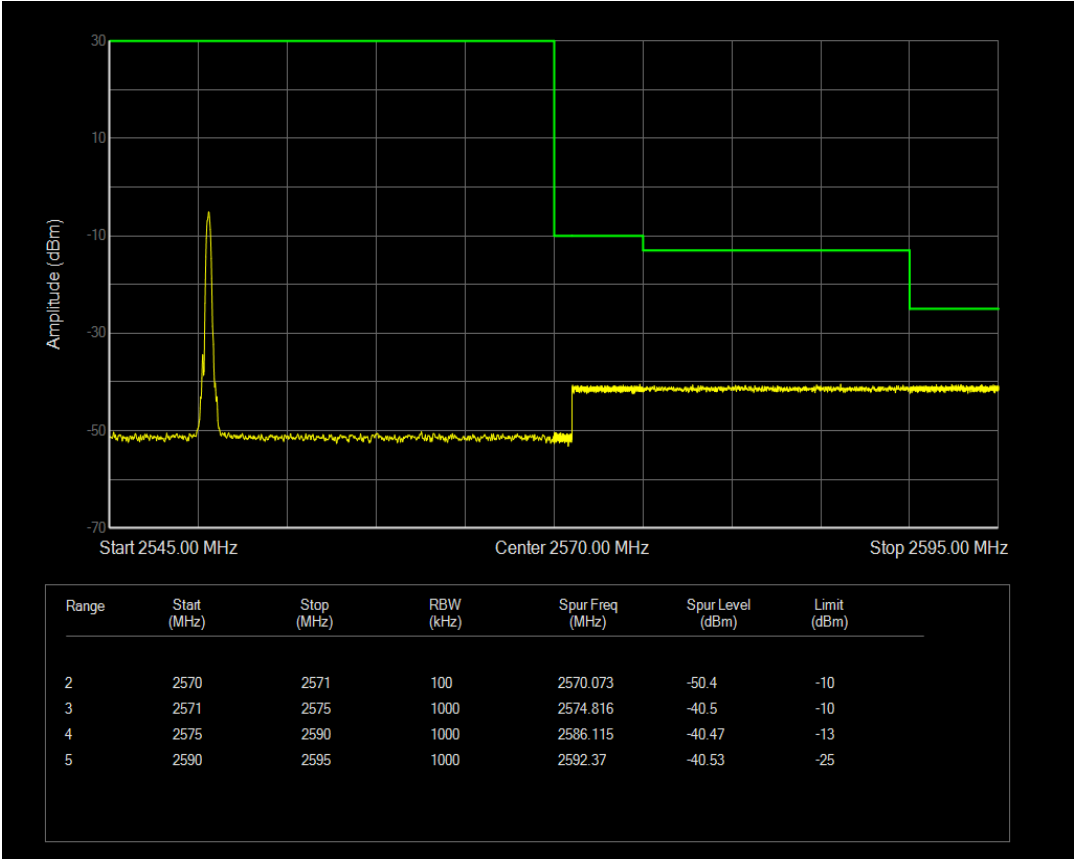
*n7 SCS=15kHz CP\_QPSK BW=15MHz Channel=501500 RB=79@0*



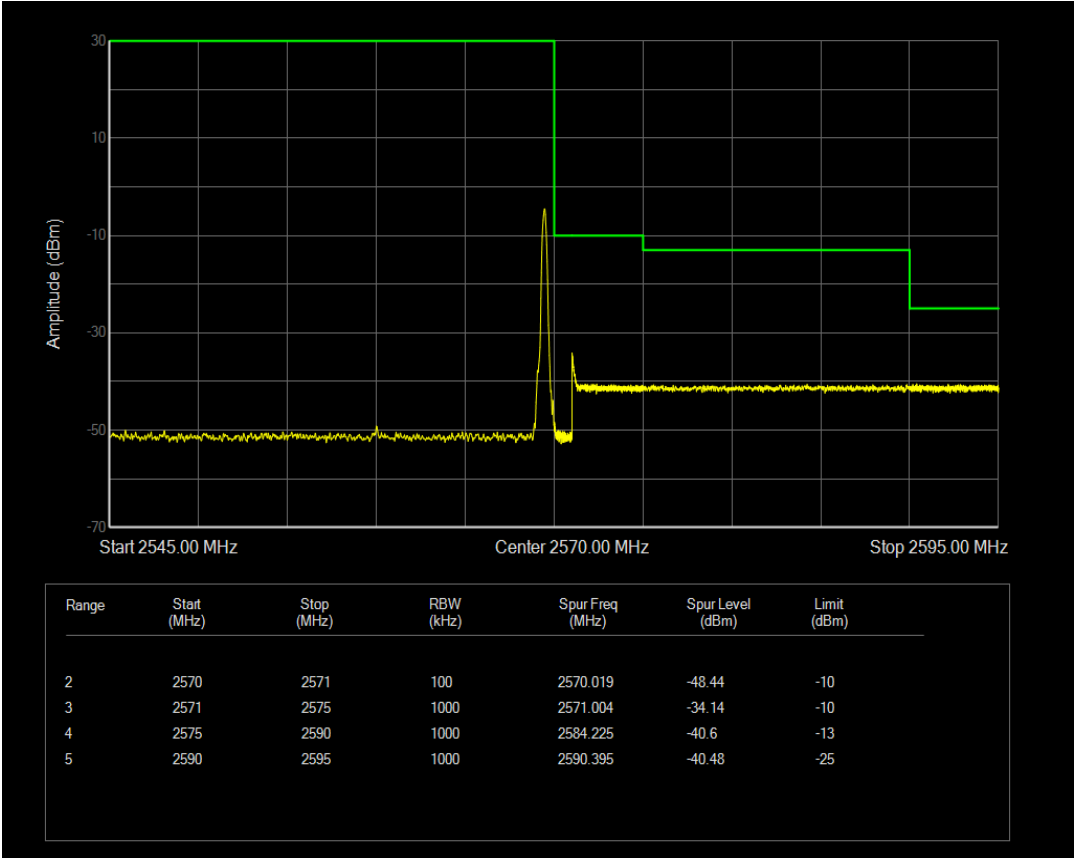
n7 SCS=15kHz CP\_QPSK BW=20MHz Channel=512000 RB=106@0



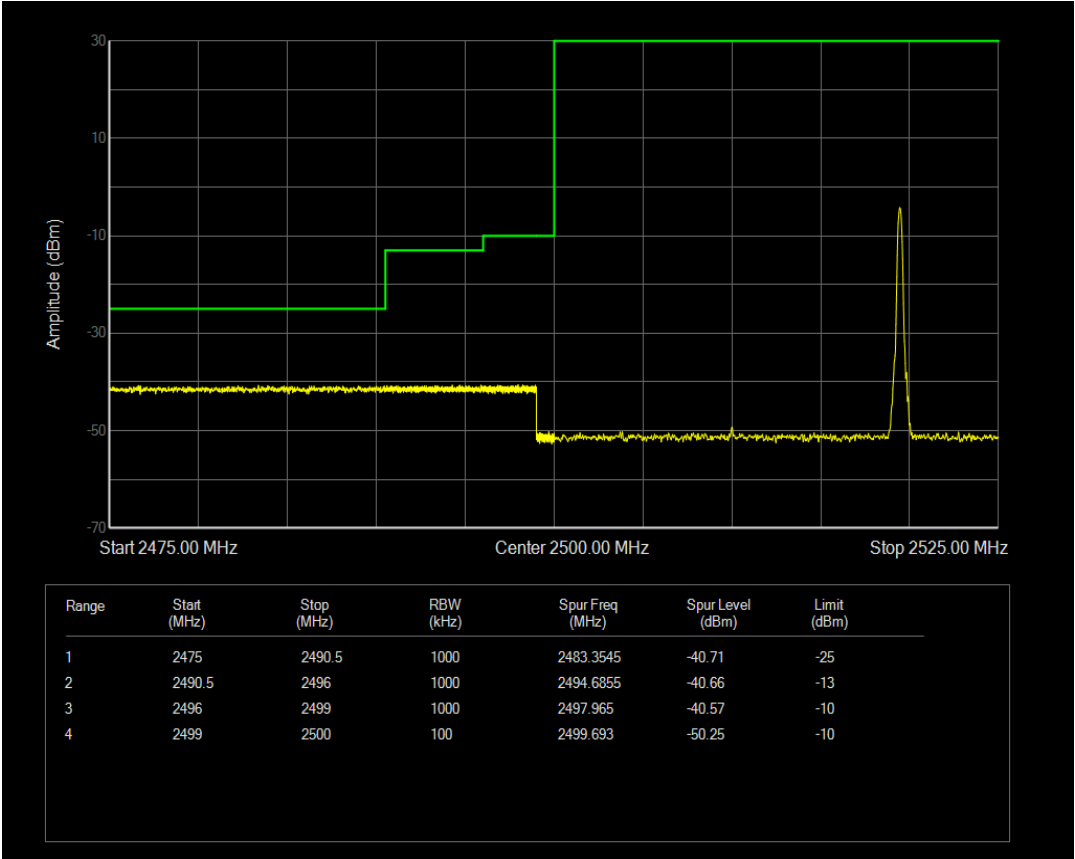
n7 SCS=15kHz CP\_QPSK BW=20MHz Channel=512000 RB=1@0



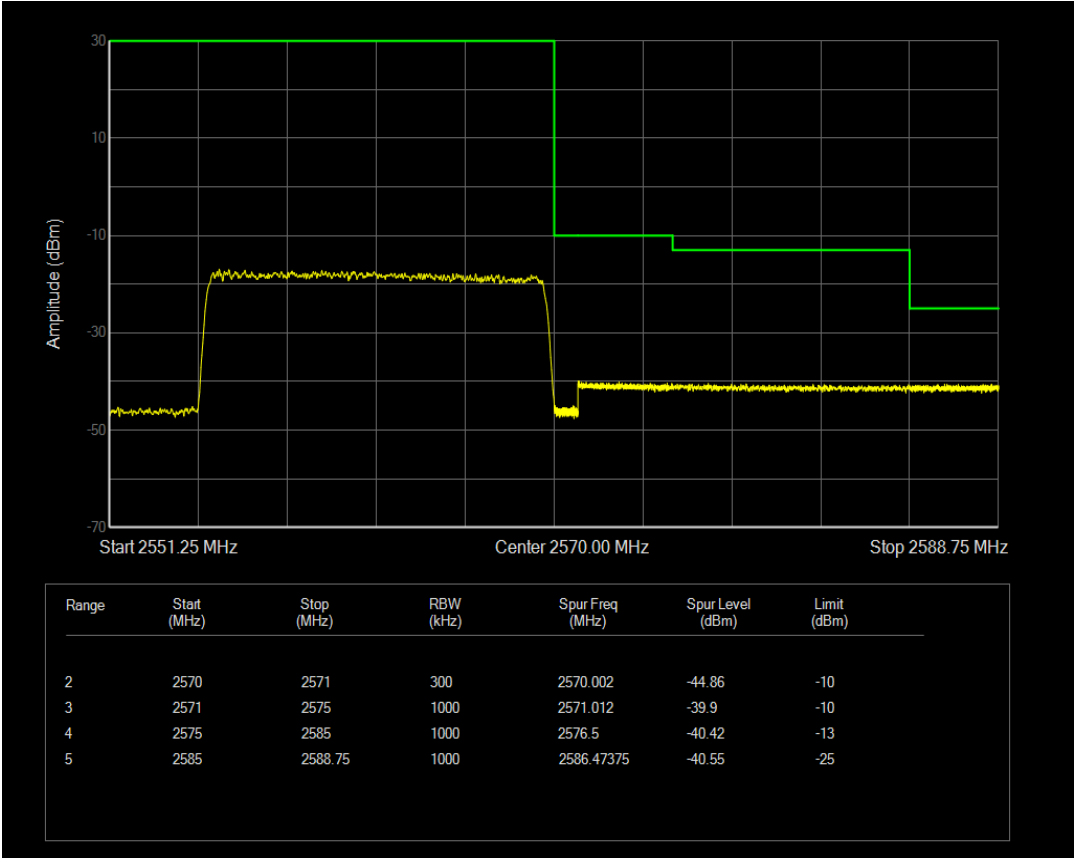
*n7 SCS=15kHz CP\_QPSK BW=20MHz Channel=512000 RB=1@105*



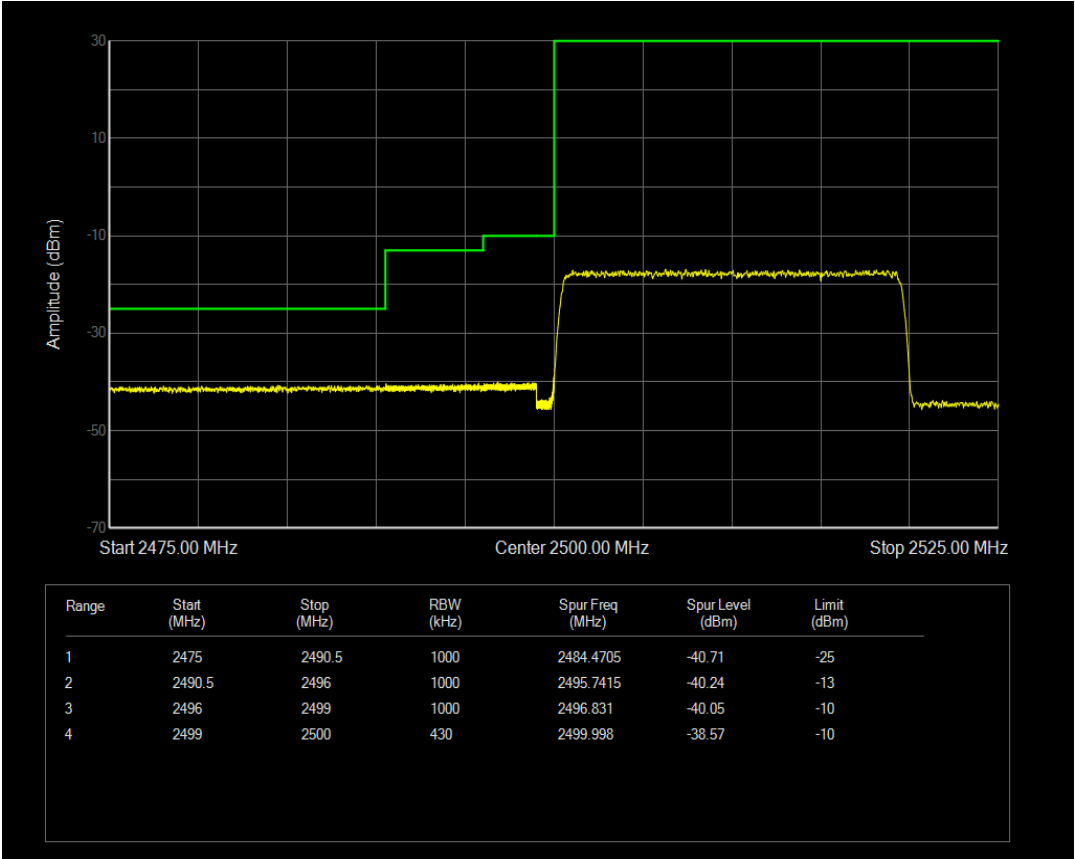
*n7 SCS=15kHz CP\_QPSK BW=20MHz Channel=502000 RB=1@105*



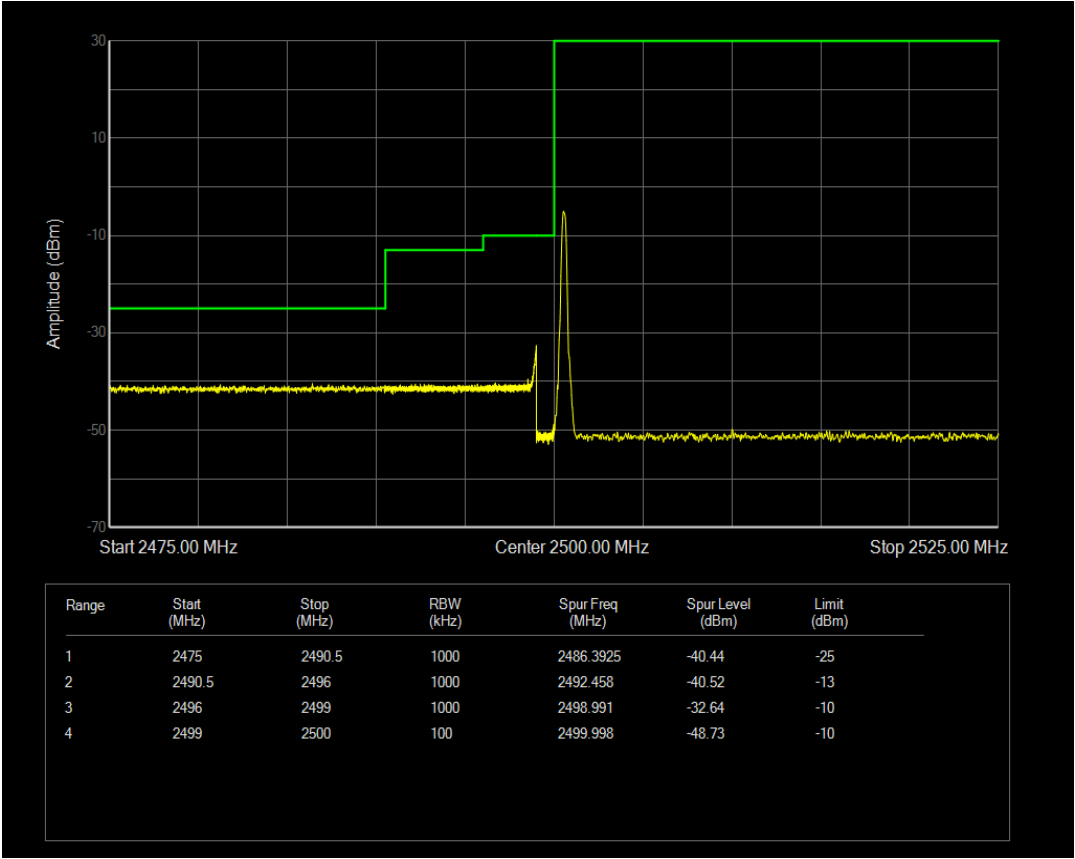
*n7 SCS=15kHz CP\_QPSK BW=15MHz Channel=512500 RB=79@0*



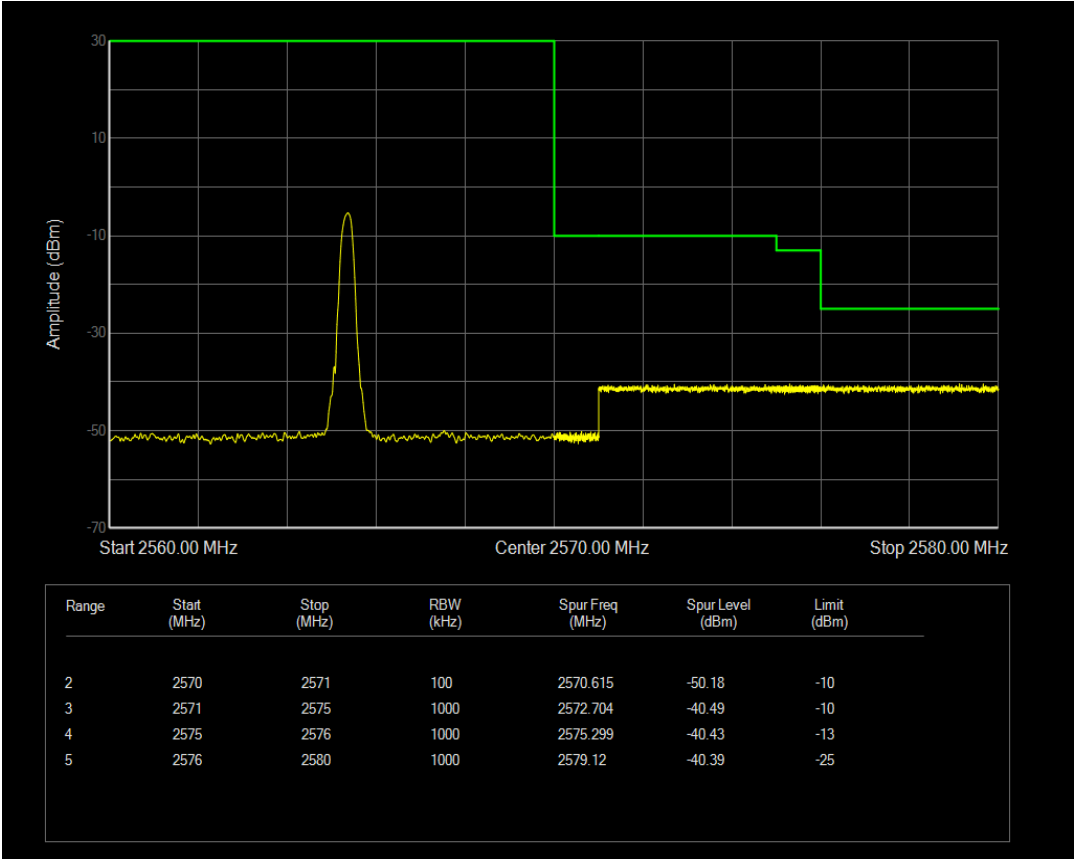
*n7 SCS=15kHz CP\_QPSK BW=20MHz Channel=502000 RB=106@0*



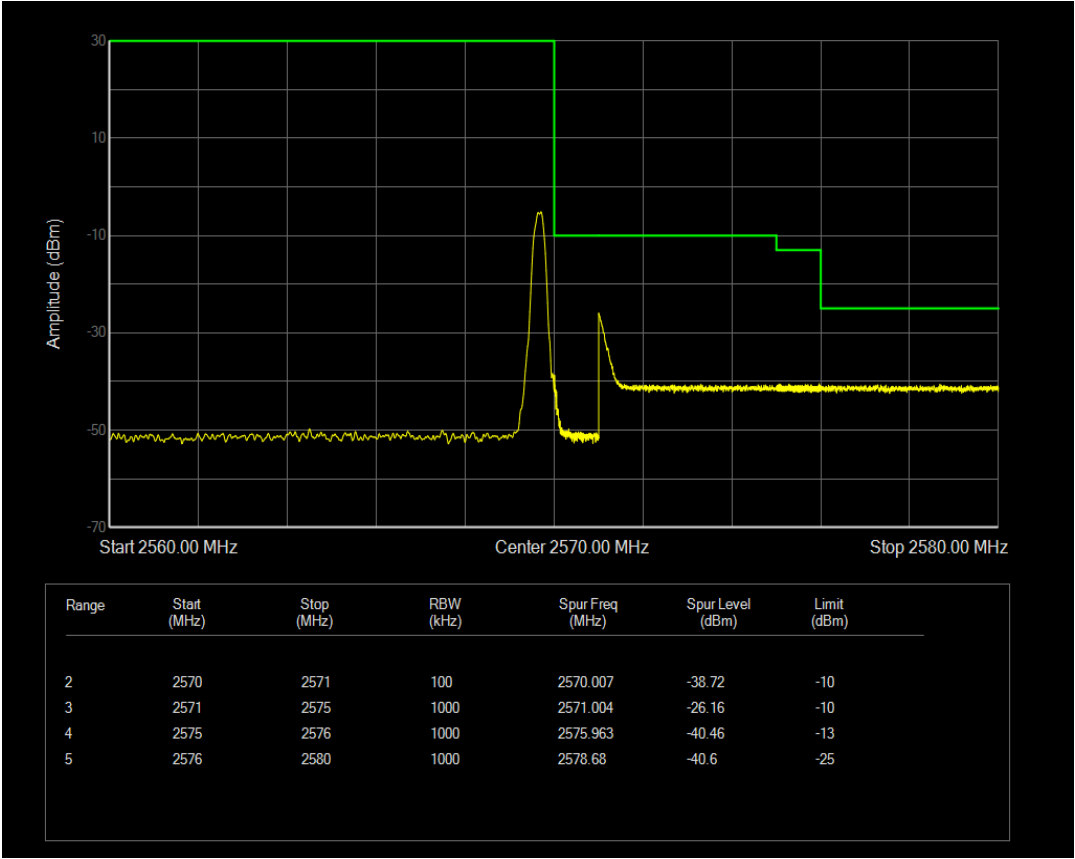
n7 SCS=15kHz CP\_QPSK BW=20MHz Channel=502000 RB=1@0



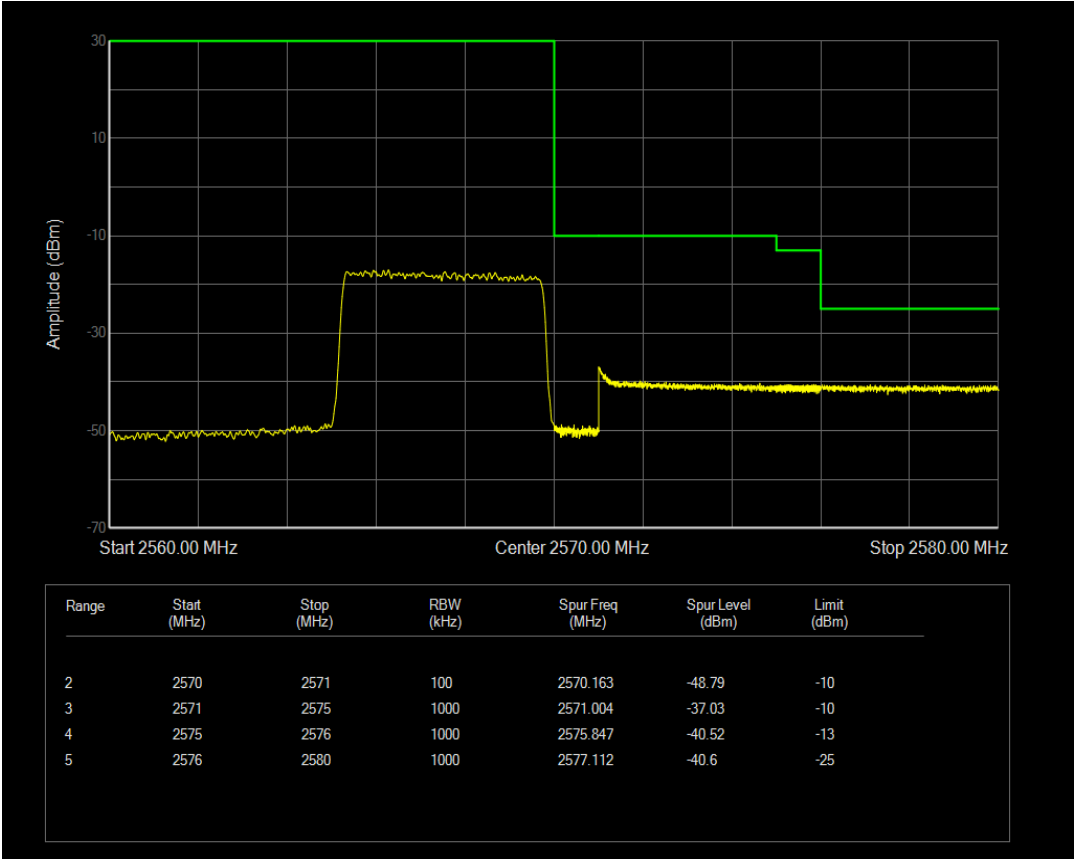
n7 SCS=15kHz CP\_QPSK BW=5MHz Channel=513500 RB=1@0



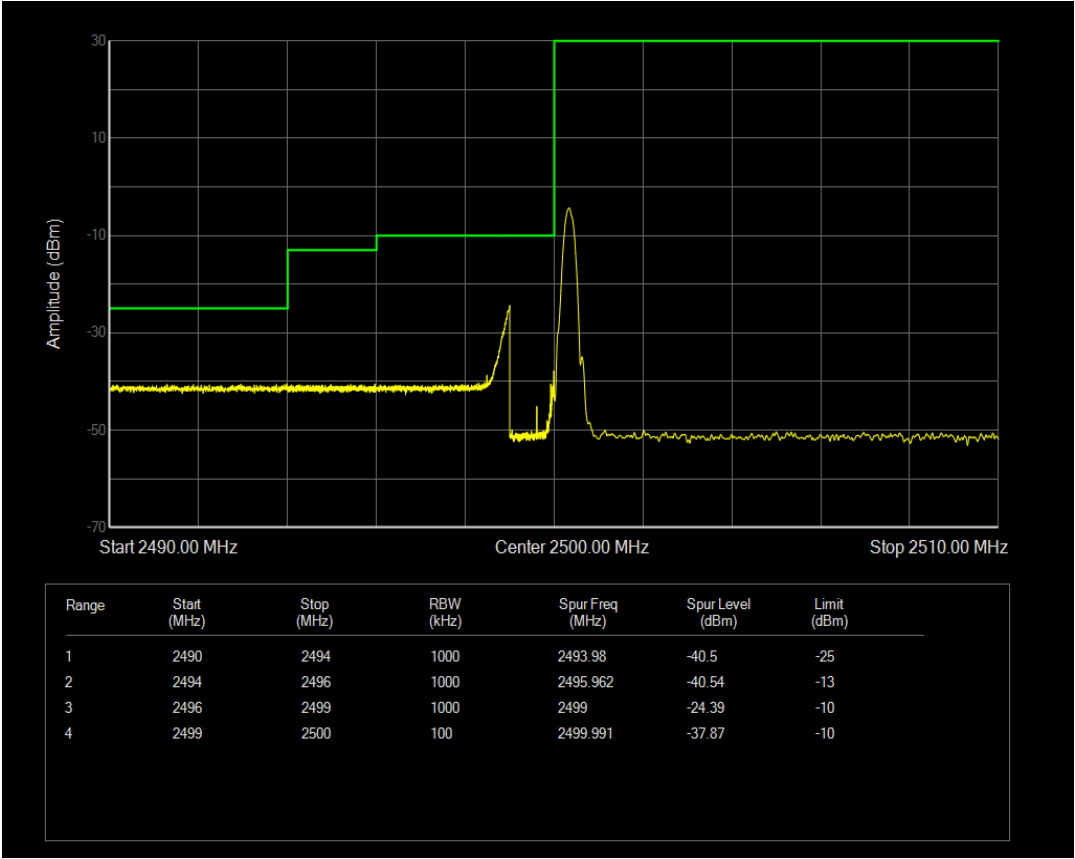
*n7 SCS=15kHz CP\_QPSK BW=5MHz Channel=513500 RB=1@24*



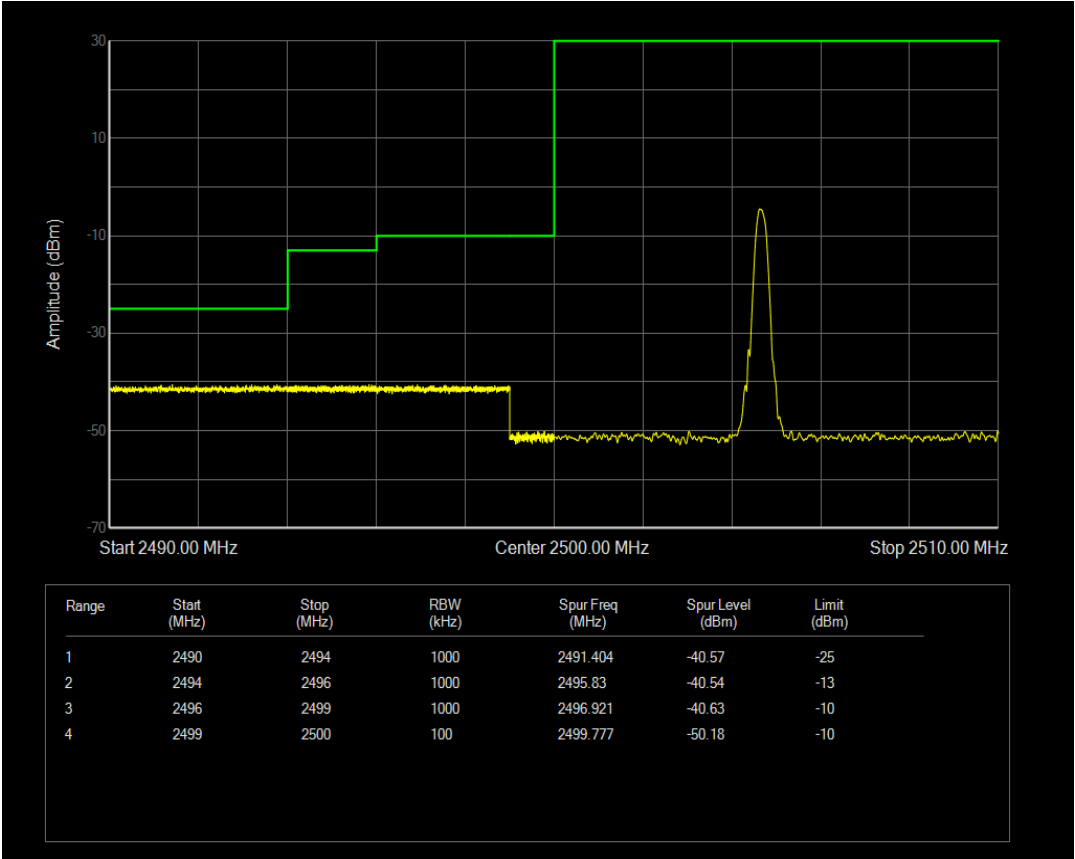
*n7 SCS=15kHz CP\_QPSK BW=5MHz Channel=513500 RB=25@0*



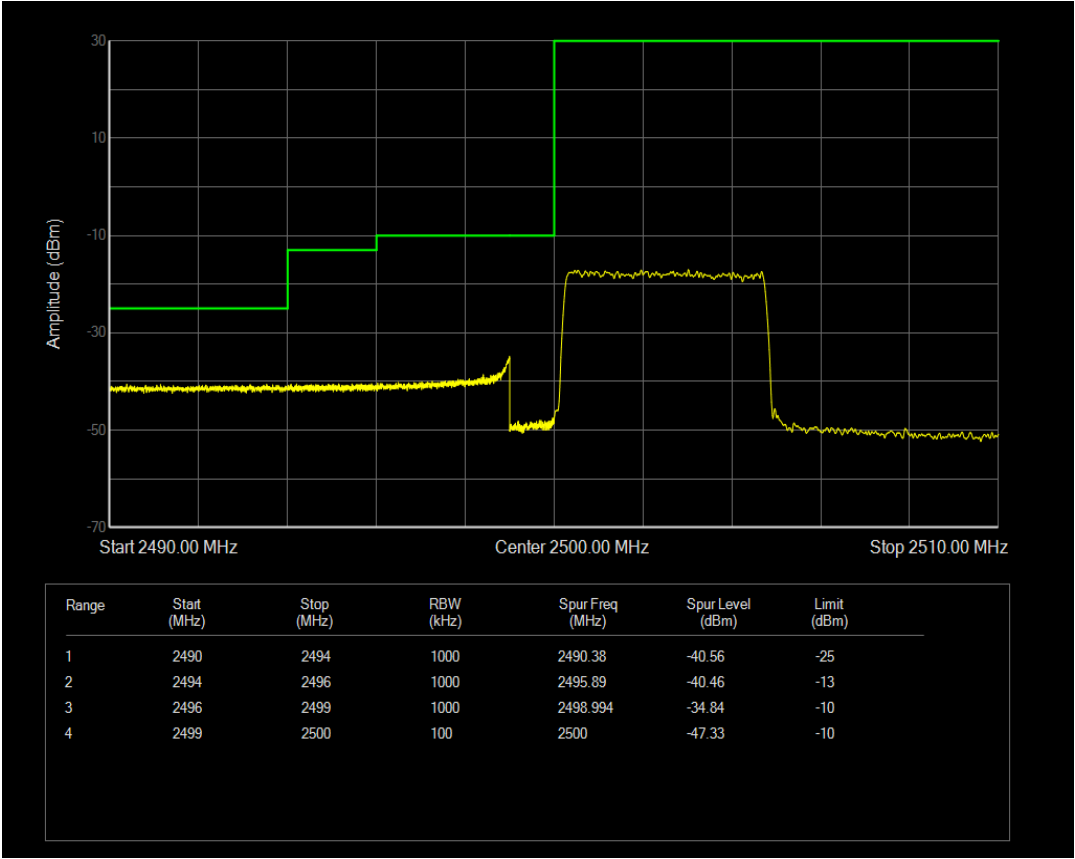
*n7 SCS=15kHz CP\_QPSK BW=5MHz Channel=500500 RB=1@0*



*n7 SCS=15kHz CP\_QPSK BW=5MHz Channel=500500 RB=1@24*



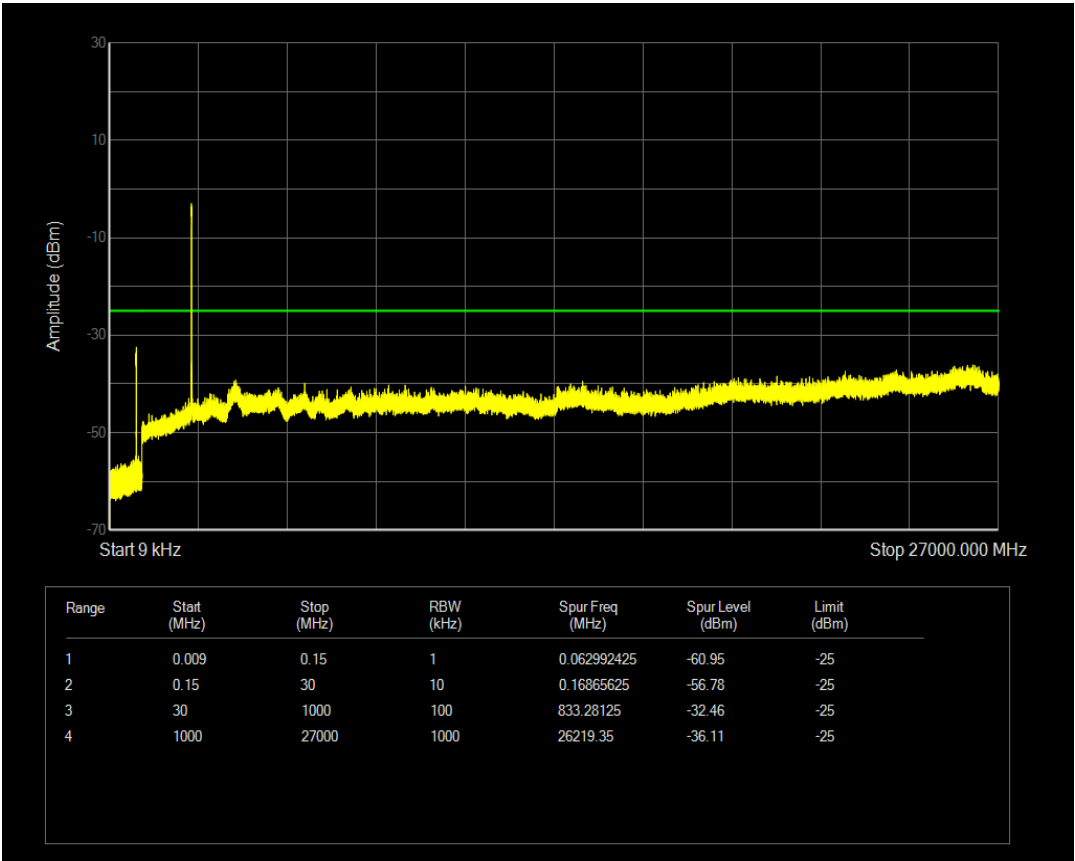
*n7 SCS=15kHz CP\_QPSK BW=5MHz Channel=500500 RB=25@0*



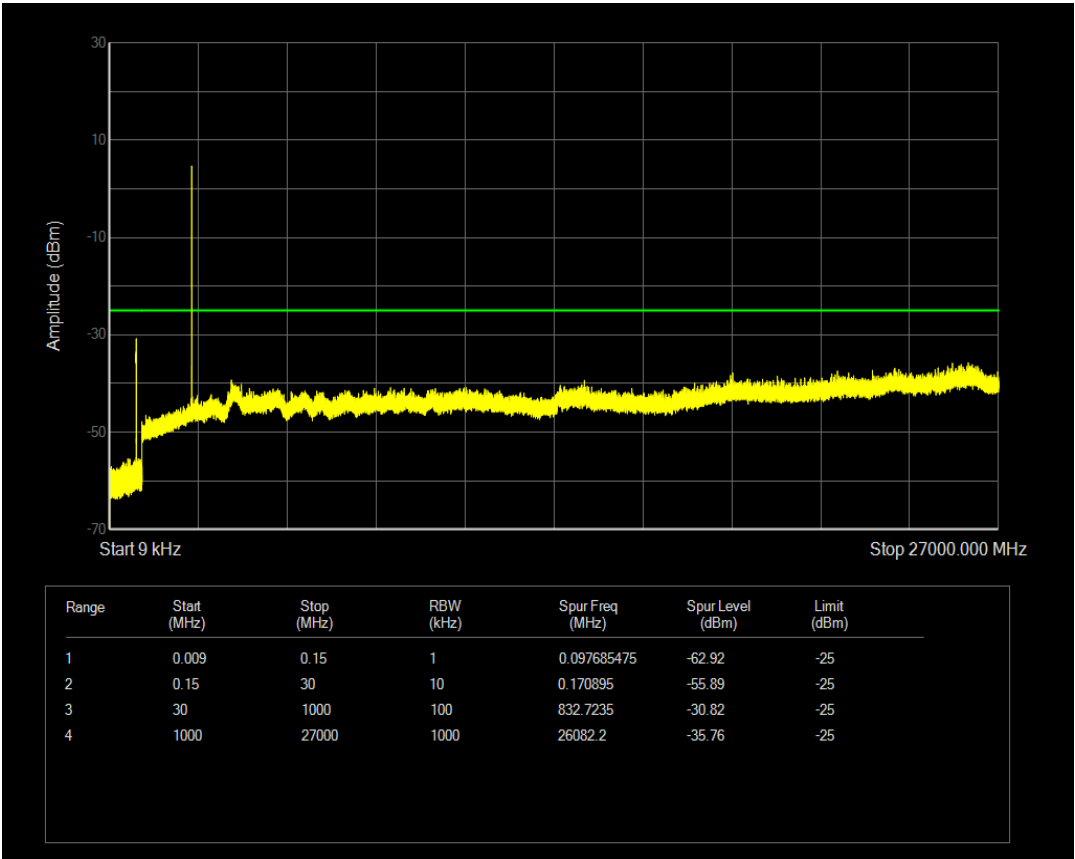
## 6 Out-of-band emissions for EN-DC

| <b>Band</b> | <b>SCS<br/>(kHz)</b> | <b>Bandwidth<br/>(MHz)</b> | <b>UL<br/>Channel</b> | <b>RB<br/>Allocation</b> | <b>Modulation</b> | <b>Spur<br/>Freq<br/>(MHz)</b> | <b>Spur<br/>Level<br/>(dBm)</b> | <b>Limit<br/>(dBm)</b> | <b>Verdict</b> |
|-------------|----------------------|----------------------------|-----------------------|--------------------------|-------------------|--------------------------------|---------------------------------|------------------------|----------------|
| n7          | 15                   | 5                          | 500500                | 25@0                     | CP_QPSK           | 833.43                         | -33.46                          | -25                    | PASS           |
| n7          | 15                   | 5                          | 500500                | 1@0                      | CP_QPSK           | 833.23                         | -31.87                          | -25                    | PASS           |
| n7          | 15                   | 5                          | 500500                | 1@24                     | CP_QPSK           | 833.57                         | -32.72                          | -25                    | PASS           |
| n7          | 15                   | 5                          | 513500                | 25@0                     | CP_QPSK           | 833.35                         | -32.42                          | -25                    | PASS           |
| n7          | 15                   | 5                          | 513500                | 1@0                      | CP_QPSK           | 833.96                         | -32.67                          | -25                    | PASS           |
| n7          | 15                   | 5                          | 513500                | 1@24                     | CP_QPSK           | 832.53                         | -32.00                          | -25                    | PASS           |
| n7          | 15                   | 15                         | 501500                | 79@0                     | CP_QPSK           | 833.28                         | -32.46                          | -25                    | PASS           |
| n7          | 15                   | 15                         | 501500                | 1@0                      | CP_QPSK           | 833.26                         | -32.87                          | -25                    | PASS           |
| n7          | 15                   | 15                         | 501500                | 1@78                     | CP_QPSK           | 832.72                         | -30.82                          | -25                    | PASS           |
| n7          | 15                   | 15                         | 512500                | 79@0                     | CP_QPSK           | 832.55                         | -32.62                          | -25                    | PASS           |
| n7          | 15                   | 15                         | 512500                | 1@0                      | CP_QPSK           | 833.26                         | -31.81                          | -25                    | PASS           |
| n7          | 15                   | 15                         | 512500                | 1@78                     | CP_QPSK           | 833.89                         | -32.89                          | -25                    | PASS           |
| n7          | 15                   | 20                         | 502000                | 106@0                    | CP_QPSK           | 833.81                         | -32.69                          | -25                    | PASS           |
| n7          | 15                   | 20                         | 502000                | 1@0                      | CP_QPSK           | 833.94                         | -33.18                          | -25                    | PASS           |
| n7          | 15                   | 20                         | 502000                | 1@105                    | CP_QPSK           | 832.41                         | -32.61                          | -25                    | PASS           |
| n7          | 15                   | 20                         | 512000                | 106@0                    | CP_QPSK           | 833.21                         | -31.90                          | -25                    | PASS           |
| n7          | 15                   | 20                         | 512000                | 1@0                      | CP_QPSK           | 833.50                         | -32.35                          | -25                    | PASS           |
| n7          | 15                   | 20                         | 512000                | 1@105                    | CP_QPSK           | 832.43                         | -32.38                          | -25                    | PASS           |

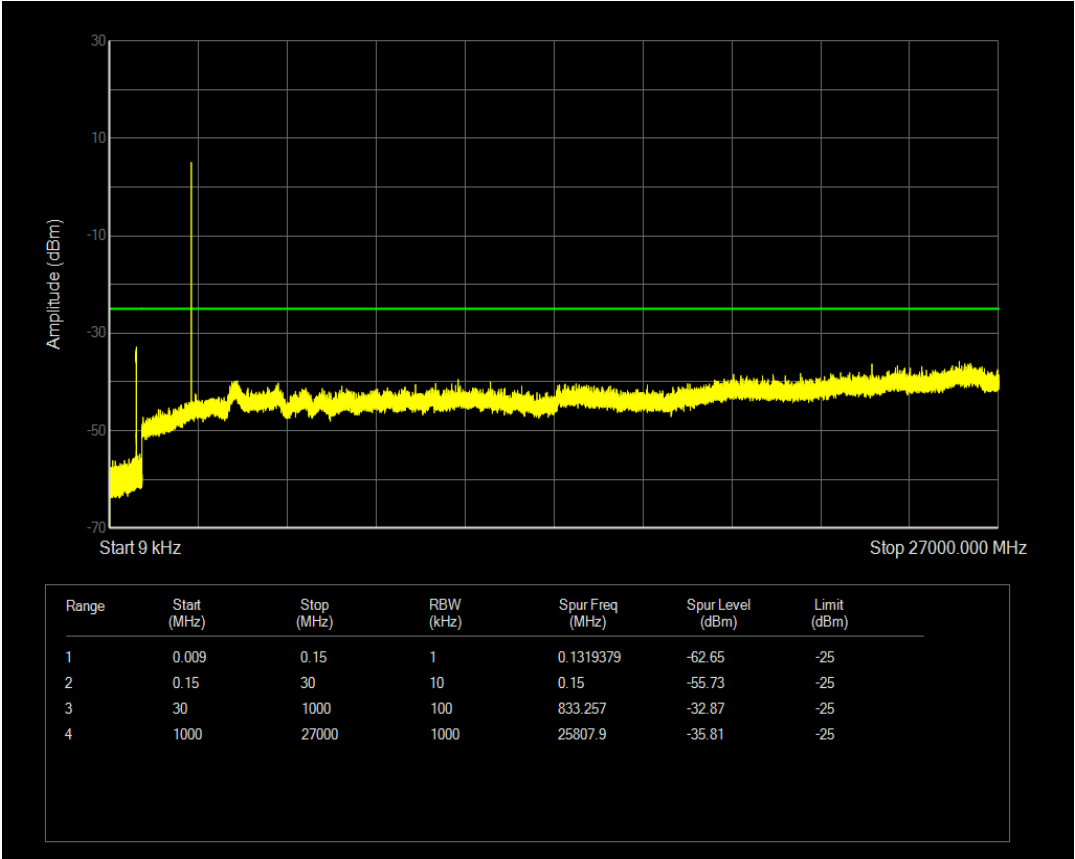
**n7 SCS=15kHz CP\_QPSK BW=15MHz Channel=501500 RB=79@0**



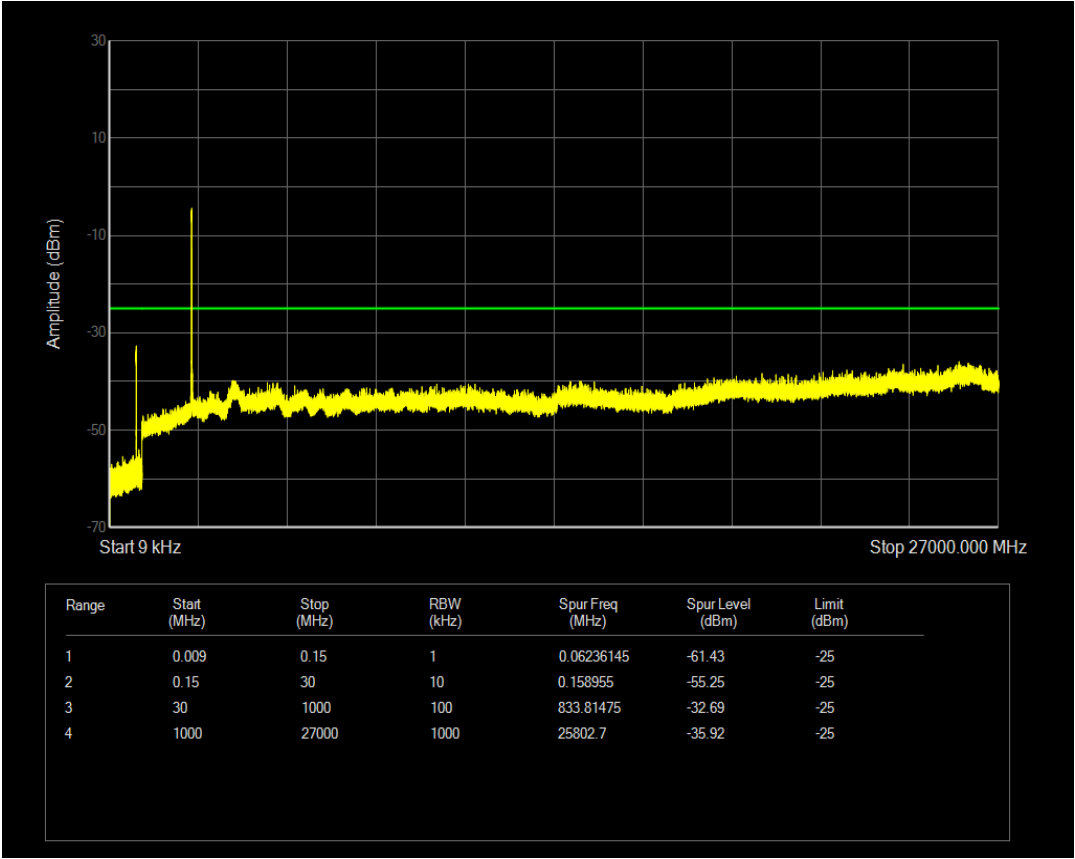
*n7 SCS=15kHz CP\_QPSK BW=15MHz Channel=501500 RB=1@78*



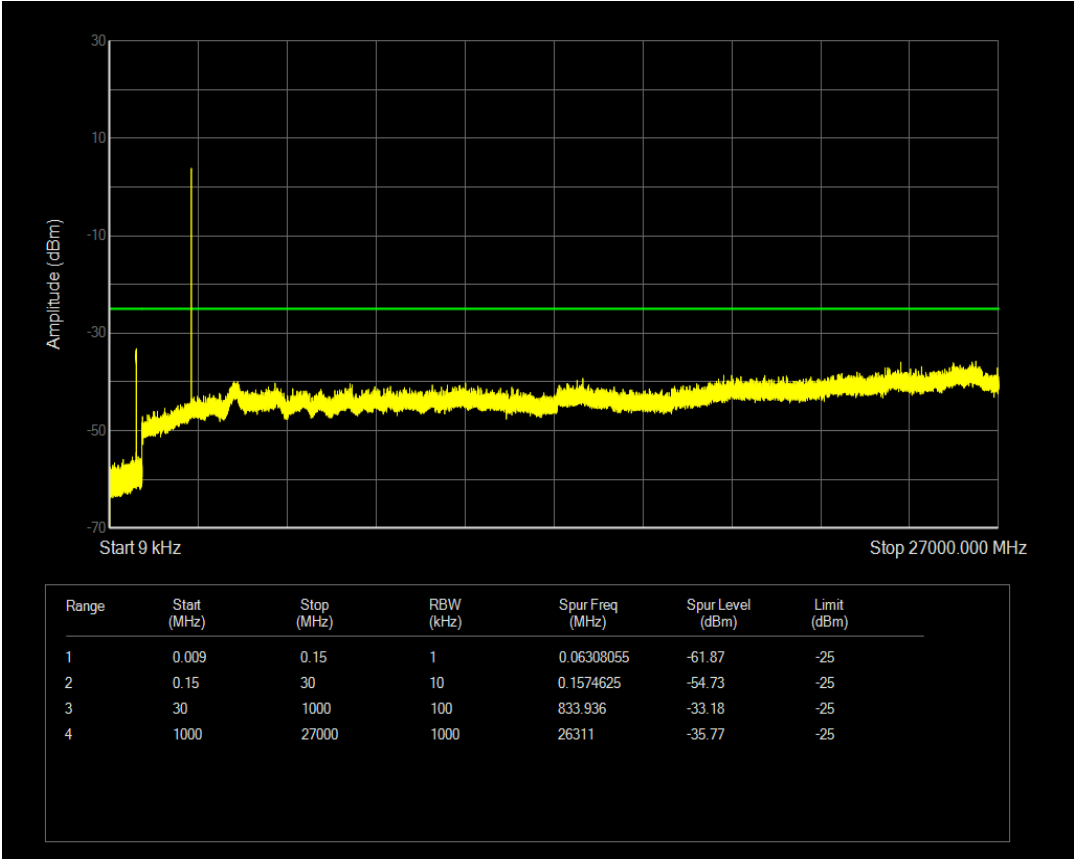
*n7 SCS=15kHz CP\_QPSK BW=15MHz Channel=501500 RB=1@0*



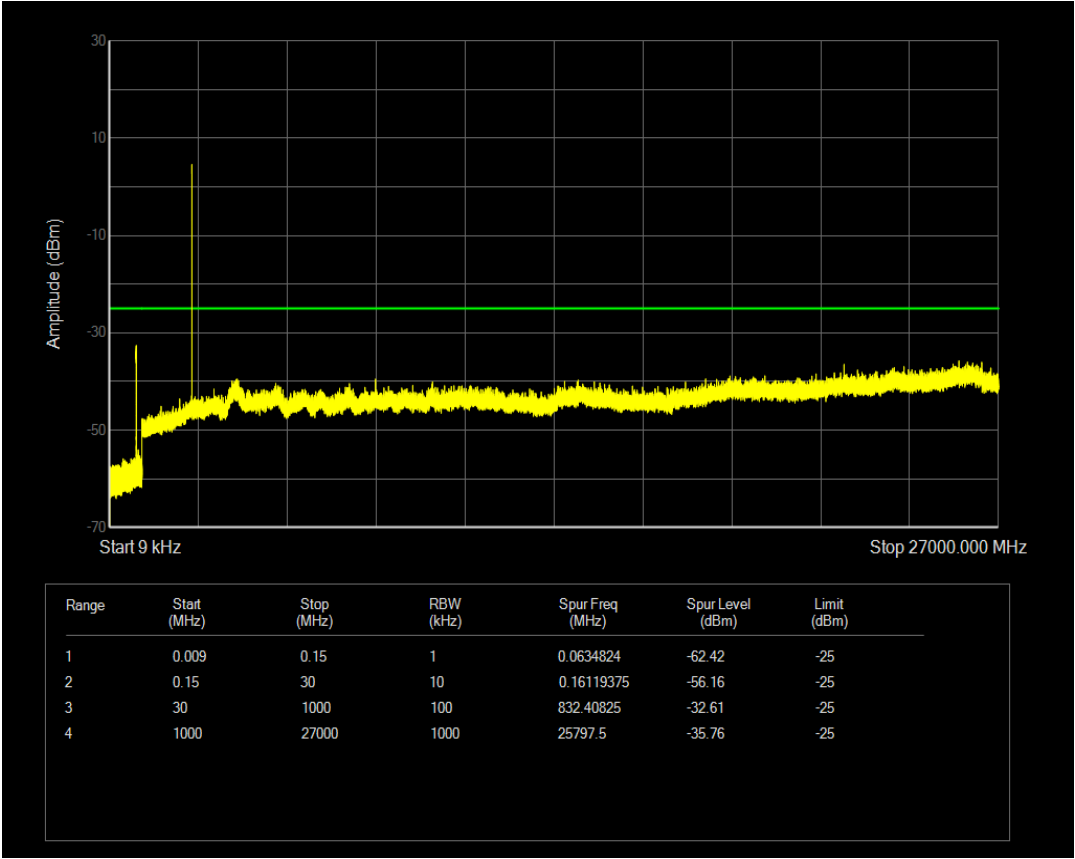
*n7 SCS=15kHz CP\_QPSK BW=20MHz Channel=502000 RB=106@0*



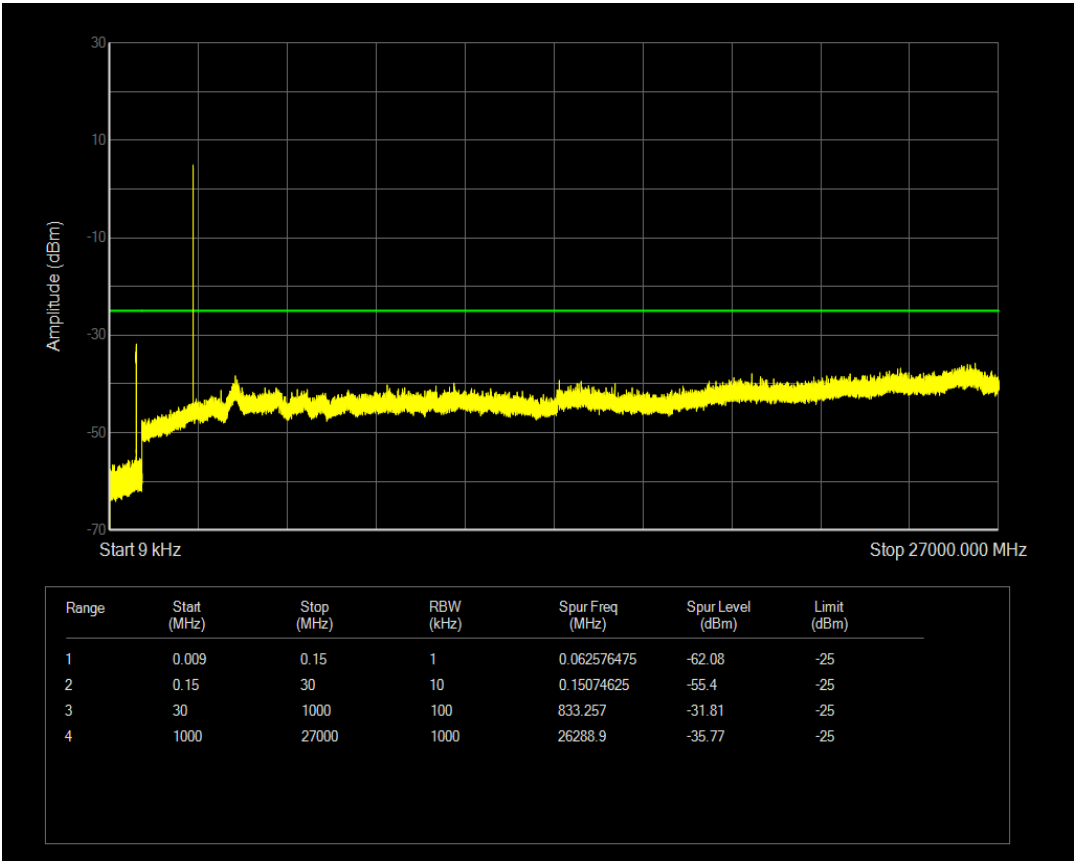
*n7 SCS=15kHz CP\_QPSK BW=20MHz Channel=502000 RB=1@0*



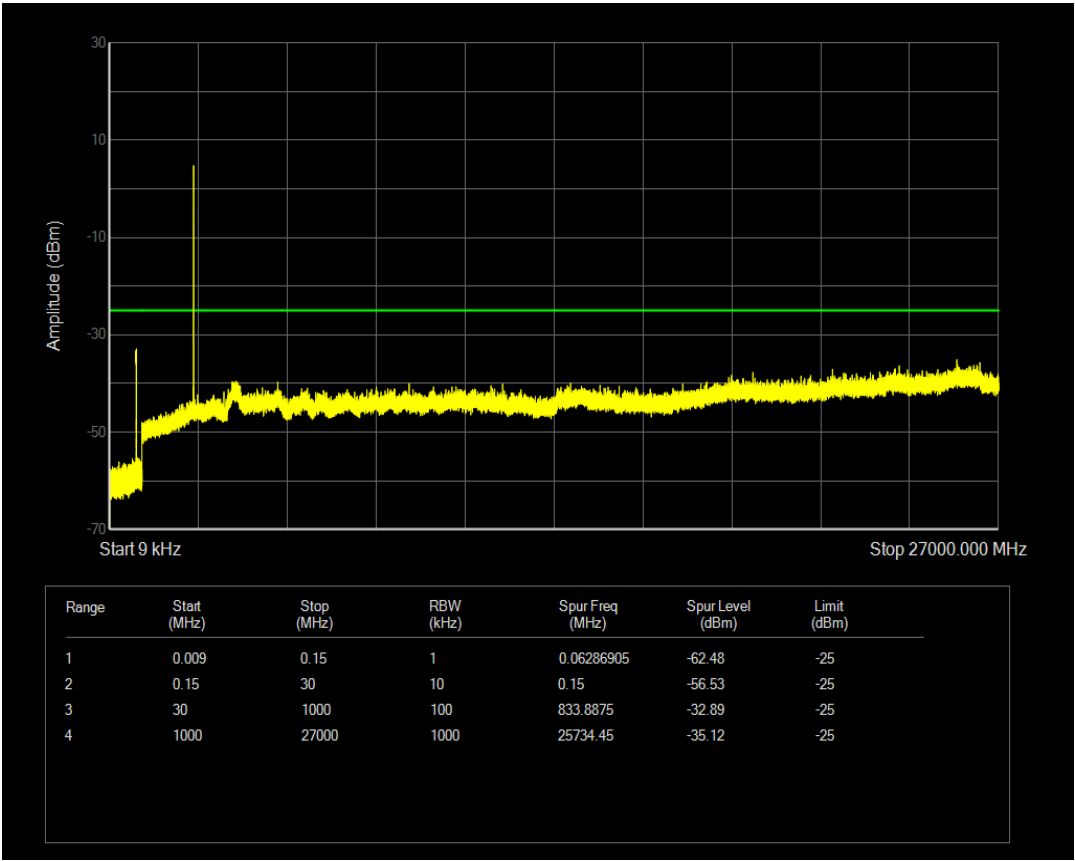
*n7 SCS=15kHz CP\_QPSK BW=20MHz Channel=502000 RB=1@105*



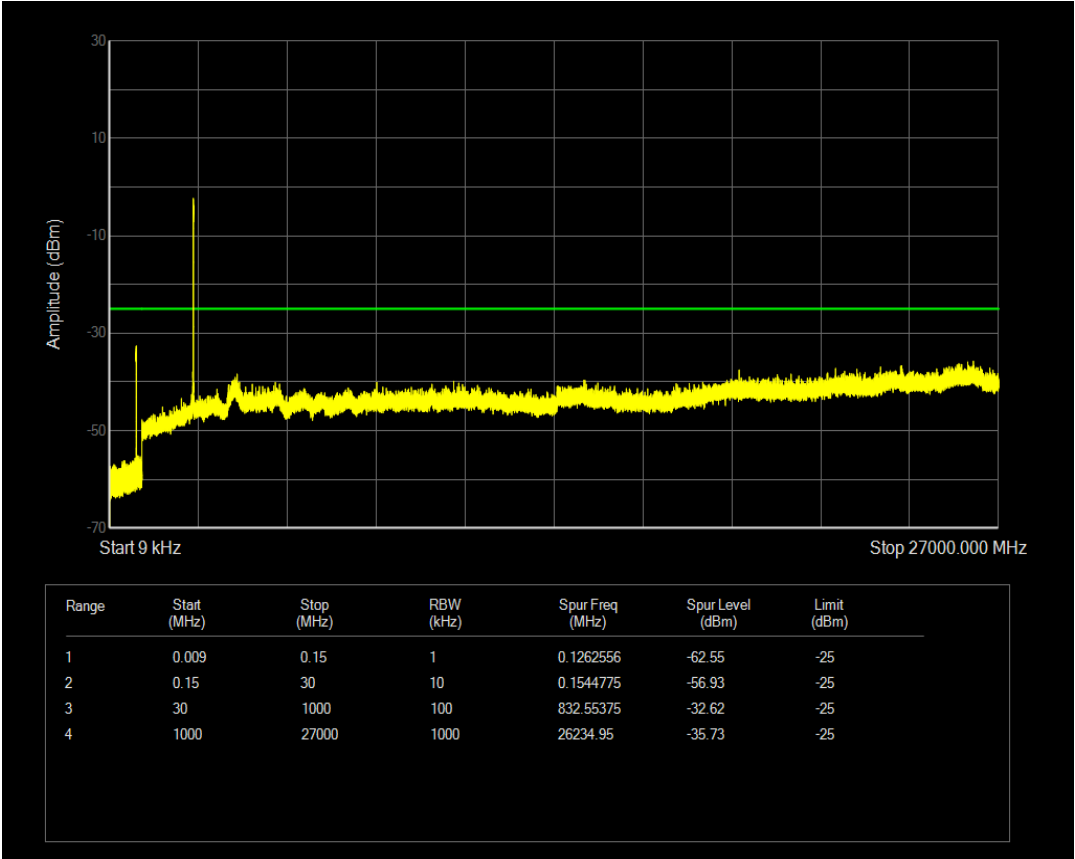
*n7 SCS=15kHz CP\_QPSK BW=15MHz Channel=512500 RB=1@0*



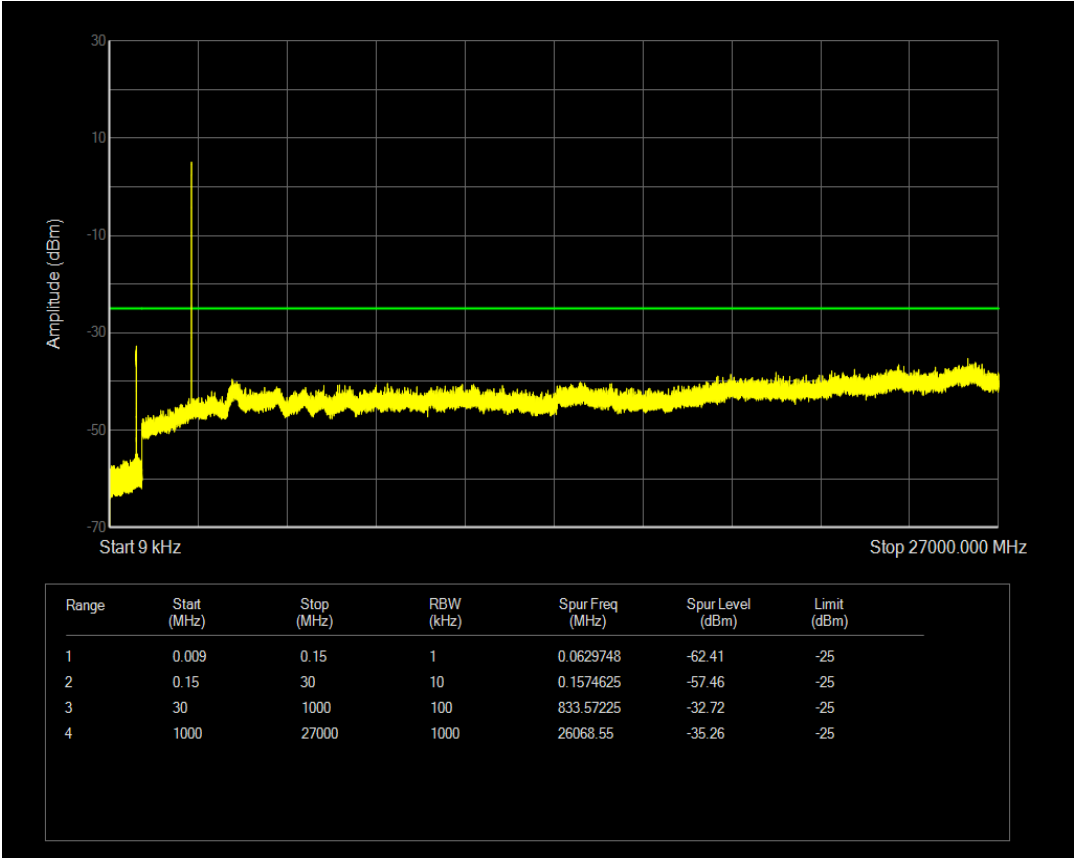
*n7 SCS=15kHz CP\_QPSK BW=15MHz Channel=512500 RB=1@78*



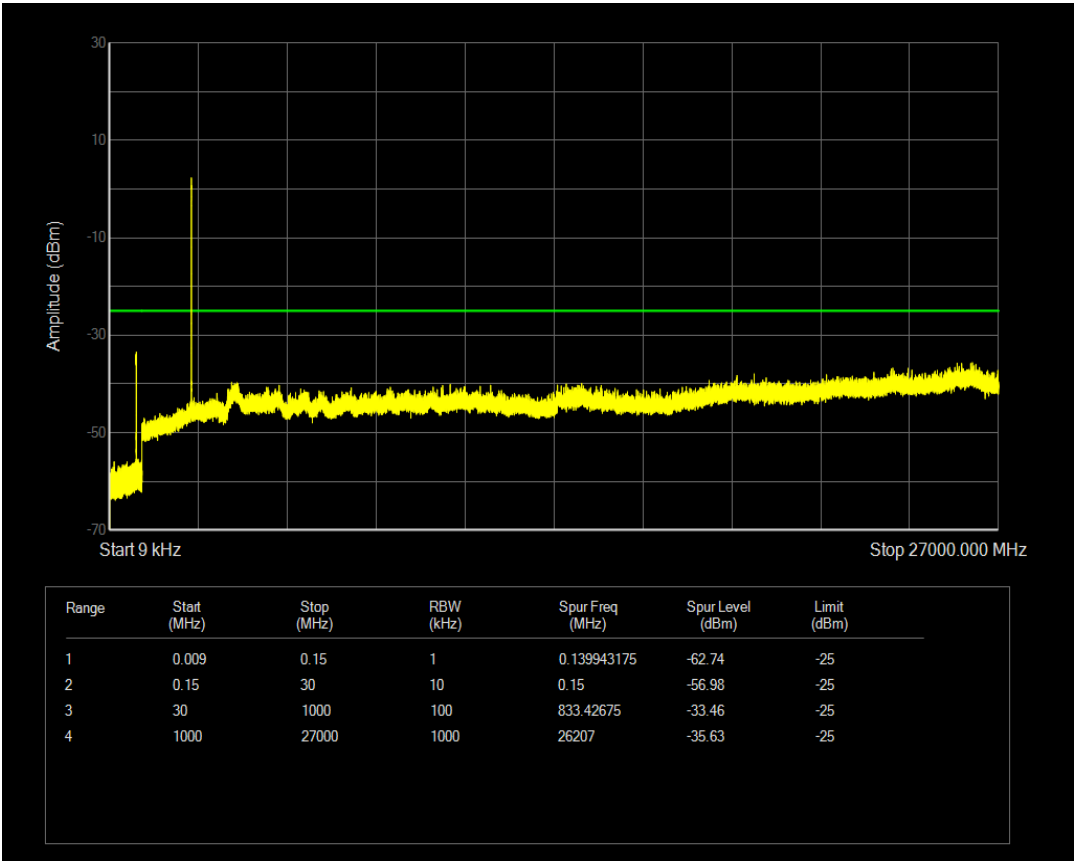
*n7 SCS=15kHz CP\_QPSK BW=15MHz Channel=512500 RB=79@0*



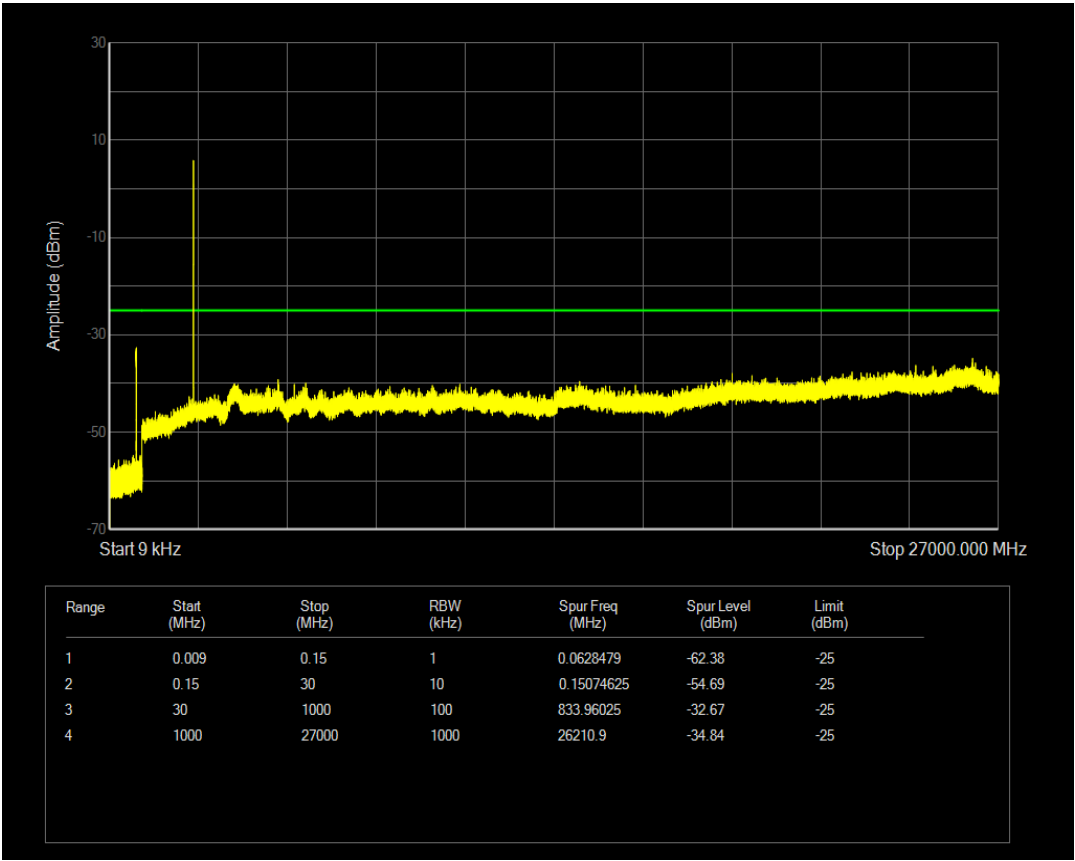
n7 SCS=15kHz CP\_QPSK BW=5MHz Channel=500500 RB=1@24



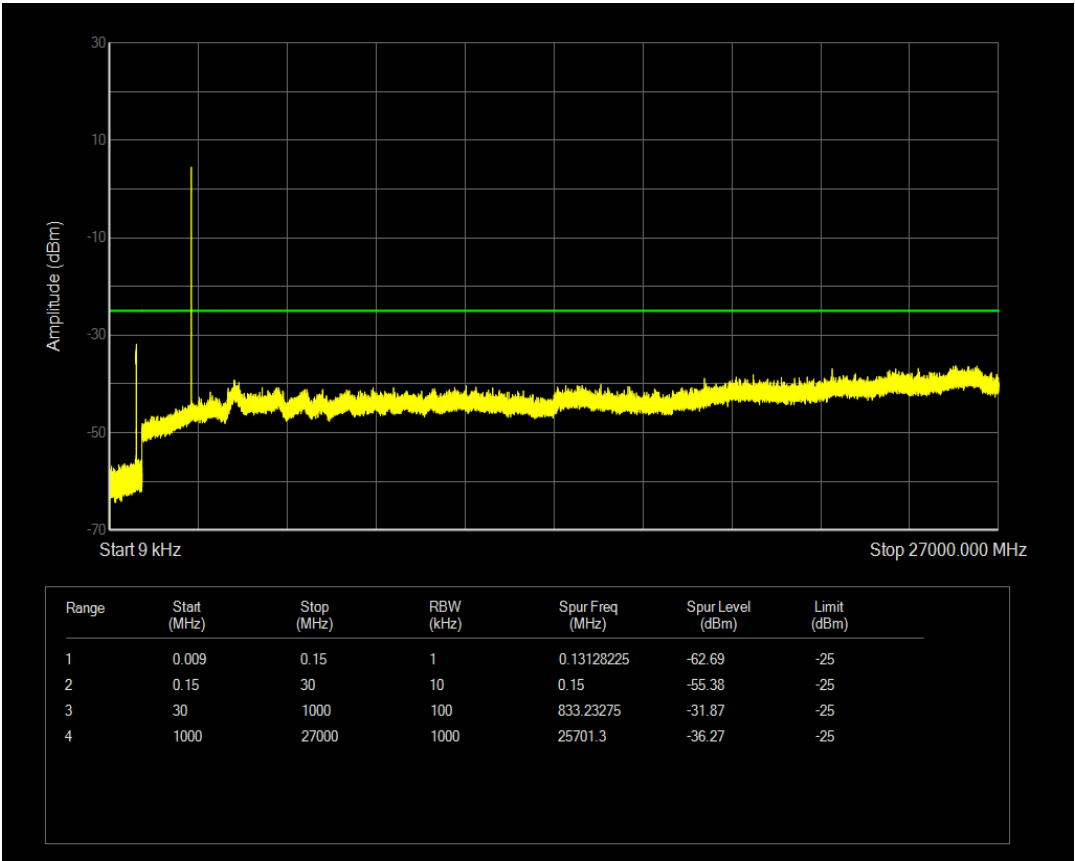
n7 SCS=15kHz CP\_QPSK BW=5MHz Channel=500500 RB=25@0



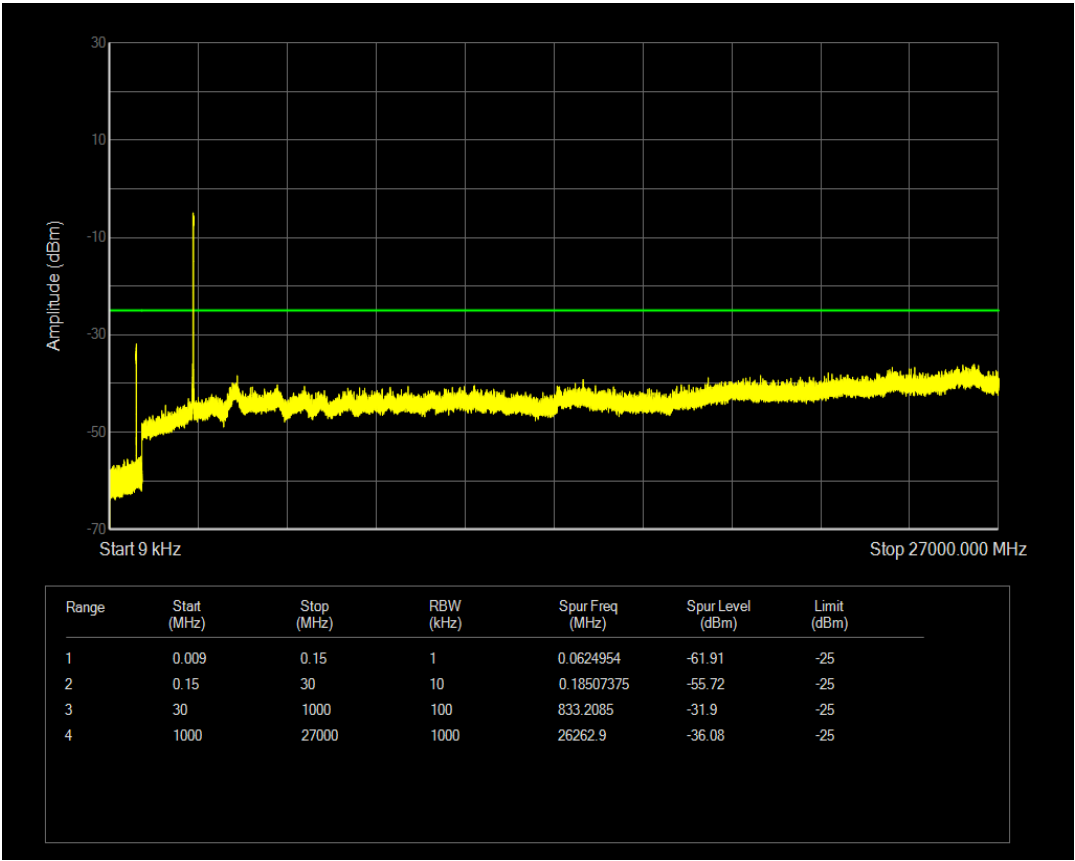
*n7 SCS=15kHz CP\_QPSK BW=5MHz Channel=513500 RB=1@0*



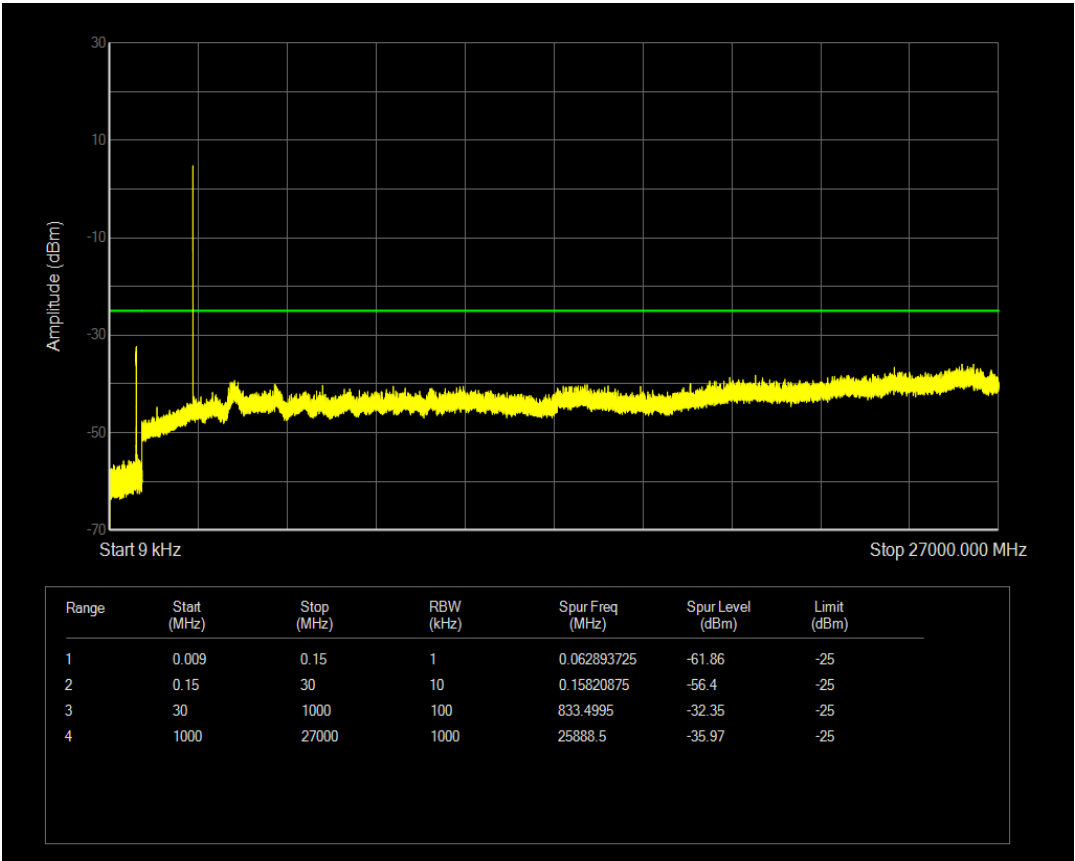
*n7 SCS=15kHz CP\_QPSK BW=5MHz Channel=500500 RB=1@0*



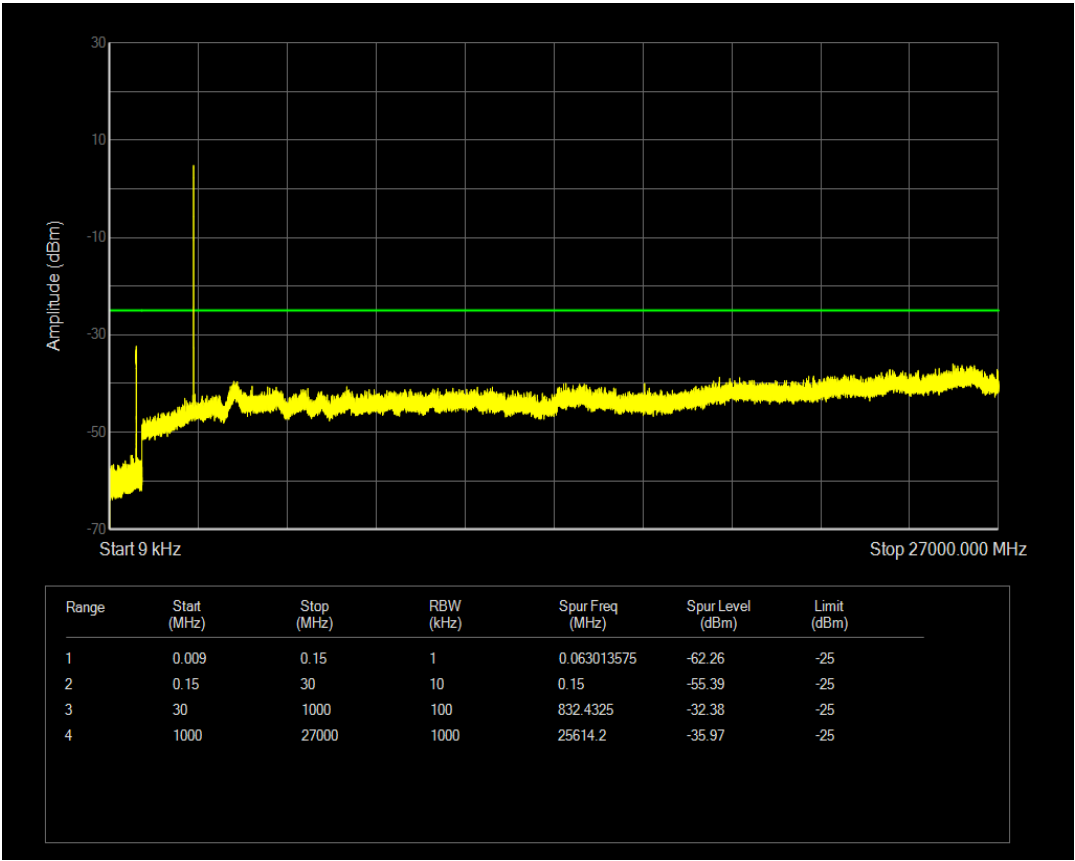
*n7 SCS=15kHz CP\_QPSK BW=20MHz Channel=512000 RB=106@0*



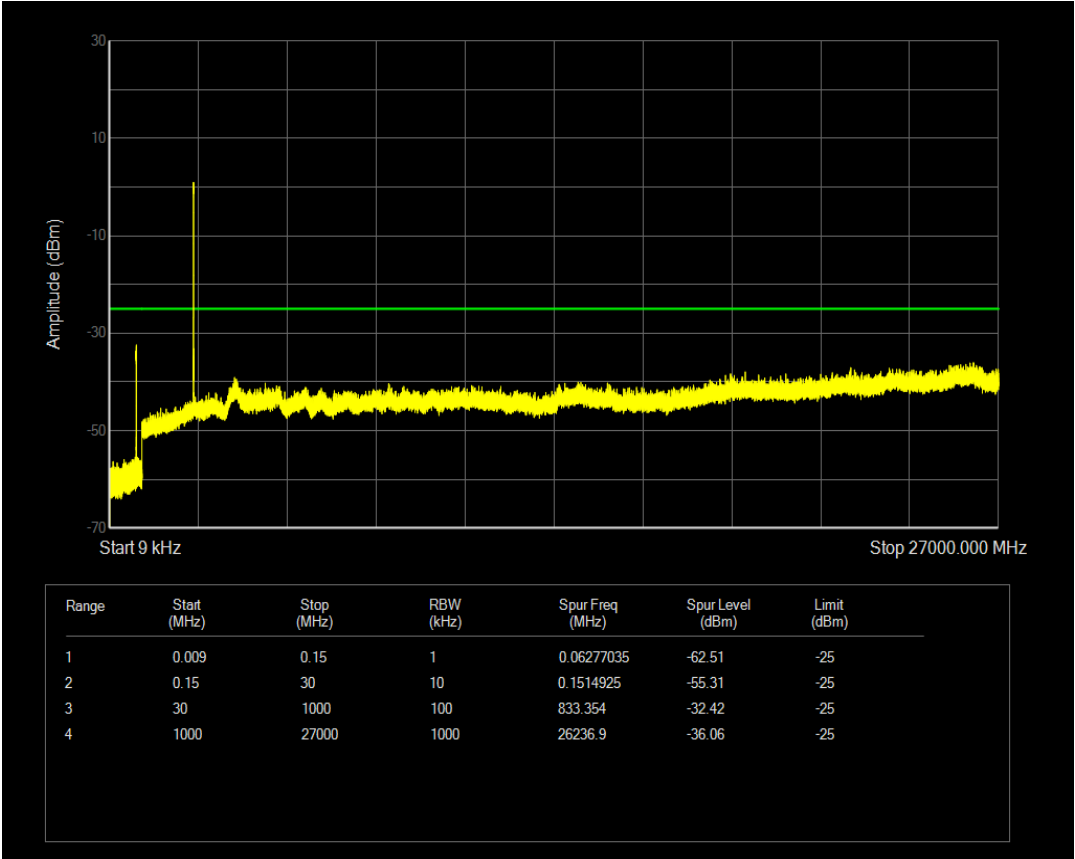
*n7 SCS=15kHz CP\_QPSK BW=20MHz Channel=512000 RB=1@0*



*n7 SCS=15kHz CP\_QPSK BW=20MHz Channel=512000 RB=1@105*



*n7 SCS=15kHz CP\_QPSK BW=5MHz Channel=513500 RB=25@0*



*n7 SCS=15kHz CP\_QPSK BW=5MHz Channel=513500 RB=1@24*

