

# Appendix for Band 7

Report No.: BCTC2304073080-2E

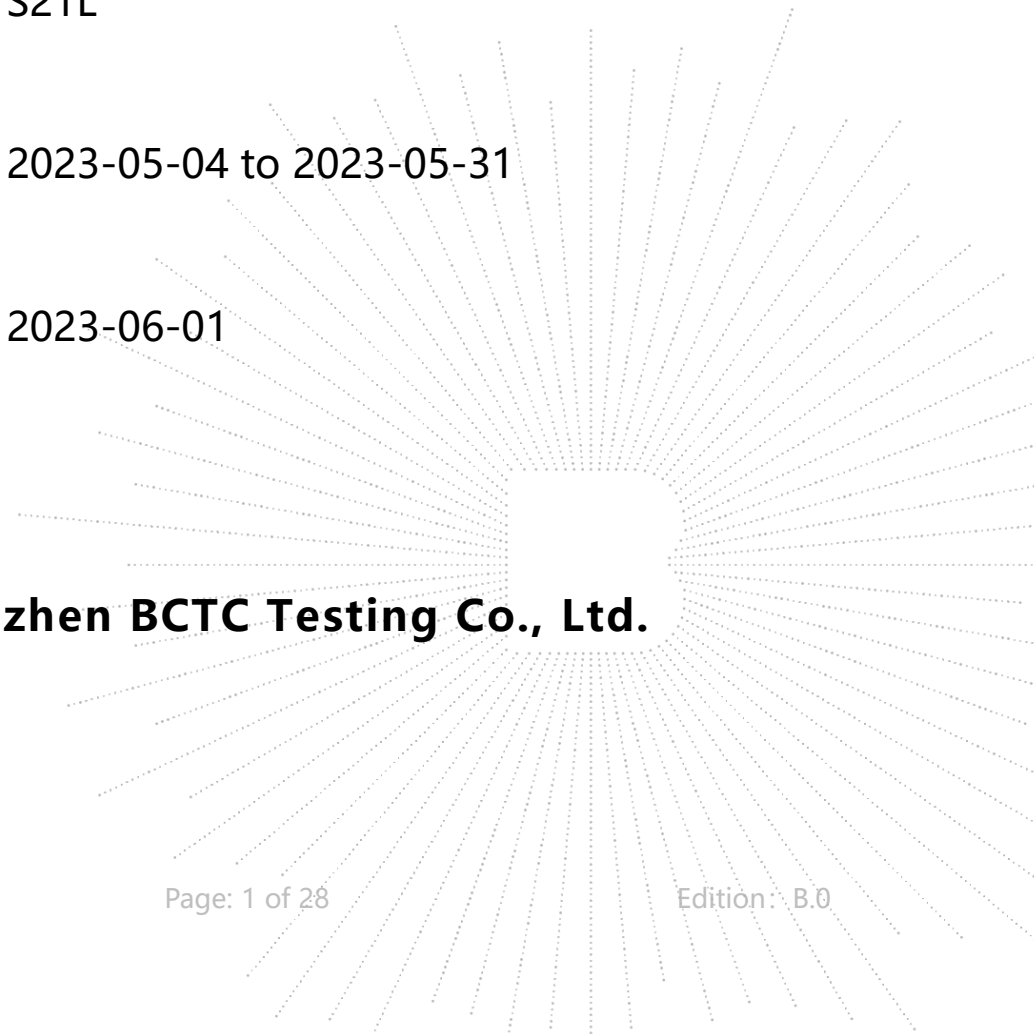
Applicant: SEEWORLD Technology Co.,Ltd

Product Name: GPS Tracker

Model/Type  
reference: S21L

Tested Date: 2023-05-04 to 2023-05-31

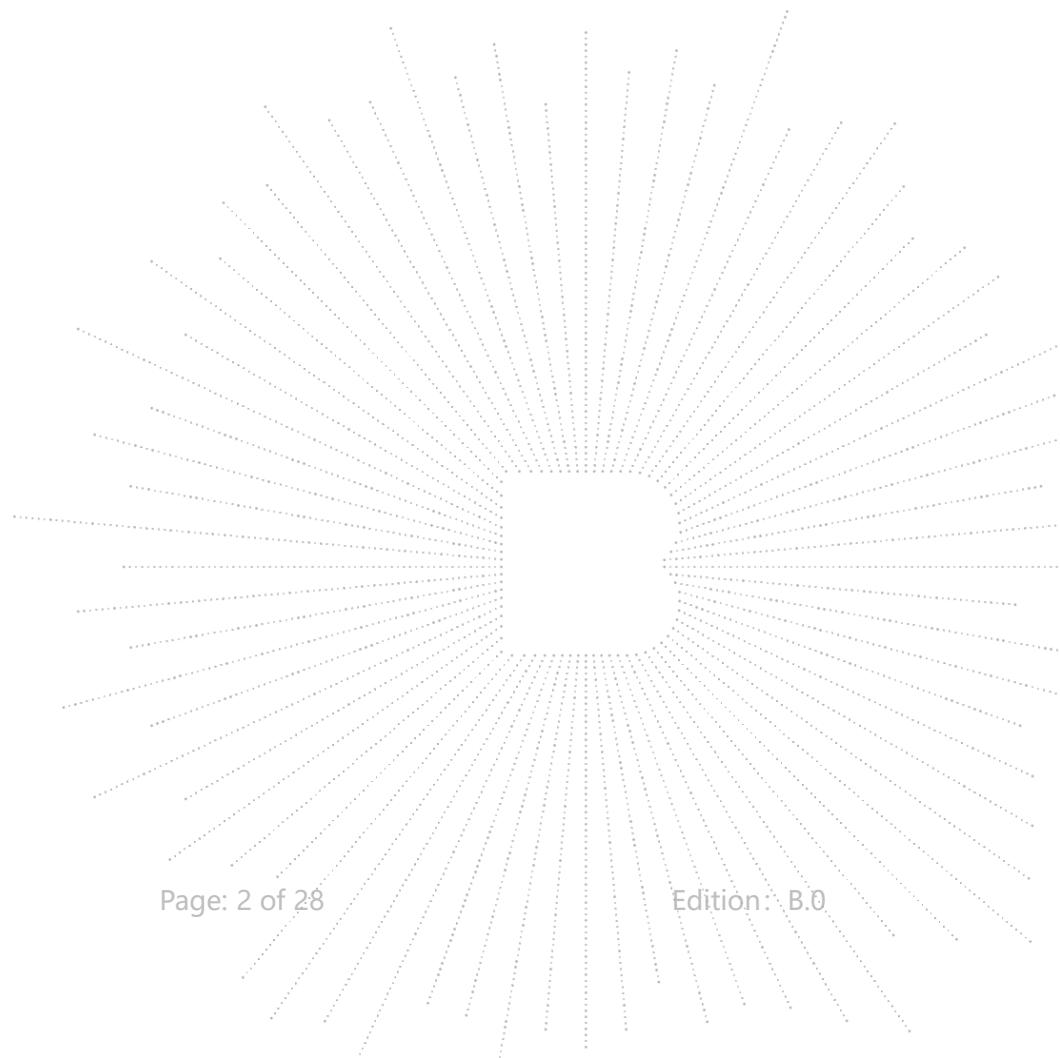
Issued Date: 2023-06-01



**Shenzhen BCTC Testing Co., Ltd.**

## Contents

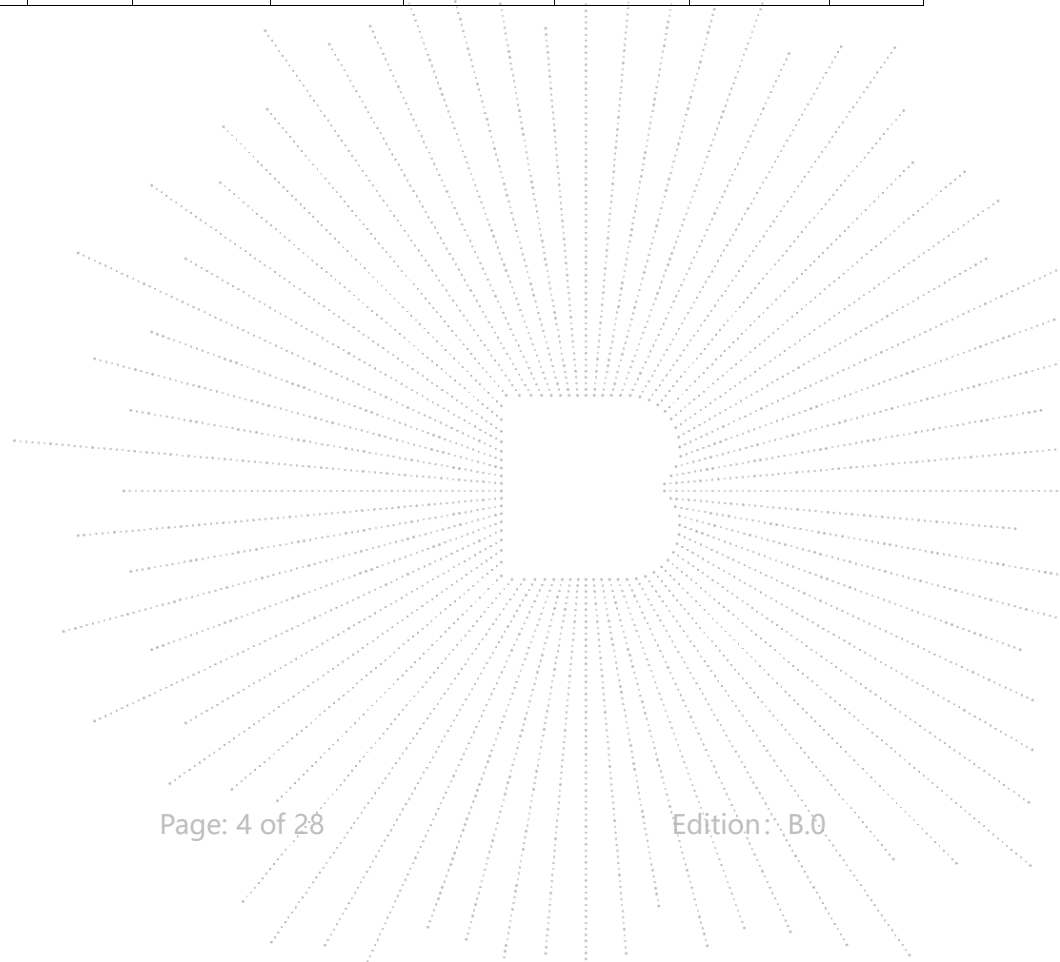
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## Appendix 1. Conducted output power

| Band  | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Size | RB<br>Position | Modulation | Power<br>(dBm) | Gain<br>(dBm) | EIRP<br>(dBm) | Verdict |
|-------|--------------------|---------------|------------|----------------|------------|----------------|---------------|---------------|---------|
| Band7 | 5                  | 20775         | 1          | #0             | QPSK       | 19.49          | 1.2           | 20.69         | PASS    |
| Band7 | 5                  | 20775         | 1          | #Mid           | QPSK       | 19.47          | 1.2           | 20.67         | PASS    |
| Band7 | 5                  | 20775         | 1          | #Max           | QPSK       | 19.76          | 1.2           | 20.96         | PASS    |
| Band7 | 5                  | 20775         | 12         | #0             | QPSK       | 18.32          | 1.2           | 19.52         | PASS    |
| Band7 | 5                  | 20775         | 12         | #Mid           | QPSK       | 18.47          | 1.2           | 19.67         | PASS    |
| Band7 | 5                  | 20775         | 12         | #Max           | QPSK       | 18.53          | 1.2           | 19.73         | PASS    |
| Band7 | 5                  | 20775         | 25         | #0             | QPSK       | 18.42          | 1.2           | 19.62         | PASS    |
| Band7 | 5                  | 20775         | 1          | #0             | 16QAM      | 18.79          | 1.2           | 19.99         | PASS    |
| Band7 | 5                  | 20775         | 1          | #Mid           | 16QAM      | 18.78          | 1.2           | 19.98         | PASS    |
| Band7 | 5                  | 20775         | 1          | #Max           | 16QAM      | 19.08          | 1.2           | 20.28         | PASS    |
| Band7 | 5                  | 20775         | 12         | #0             | 16QAM      | 17.33          | 1.2           | 18.53         | PASS    |
| Band7 | 5                  | 20775         | 12         | #Mid           | 16QAM      | 17.49          | 1.2           | 18.69         | PASS    |
| Band7 | 5                  | 20775         | 12         | #Max           | 16QAM      | 17.57          | 1.2           | 18.77         | PASS    |
| Band7 | 5                  | 20775         | 25         | #0             | 16QAM      | 17.48          | 1.2           | 18.68         | PASS    |
| Band7 | 5                  | 21100         | 1          | #0             | QPSK       | 20.00          | 1.2           | 21.20         | PASS    |
| Band7 | 5                  | 21100         | 1          | #Mid           | QPSK       | 19.48          | 1.2           | 20.68         | PASS    |
| Band7 | 5                  | 21100         | 1          | #Max           | QPSK       | 19.09          | 1.2           | 20.29         | PASS    |
| Band7 | 5                  | 21100         | 12         | #0             | QPSK       | 18.68          | 1.2           | 19.88         | PASS    |
| Band7 | 5                  | 21100         | 12         | #Mid           | QPSK       | 18.53          | 1.2           | 19.73         | PASS    |
| Band7 | 5                  | 21100         | 12         | #Max           | QPSK       | 18.26          | 1.2           | 19.46         | PASS    |
| Band7 | 5                  | 21100         | 25         | #0             | QPSK       | 18.53          | 1.2           | 19.73         | PASS    |
| Band7 | 5                  | 21100         | 1          | #0             | 16QAM      | 19.40          | 1.2           | 20.60         | PASS    |
| Band7 | 5                  | 21100         | 1          | #Mid           | 16QAM      | 18.91          | 1.2           | 20.11         | PASS    |
| Band7 | 5                  | 21100         | 1          | #Max           | 16QAM      | 18.53          | 1.2           | 19.73         | PASS    |
| Band7 | 5                  | 21100         | 12         | #0             | 16QAM      | 17.73          | 1.2           | 18.93         | PASS    |
| Band7 | 5                  | 21100         | 12         | #Mid           | 16QAM      | 17.59          | 1.2           | 18.79         | PASS    |
| Band7 | 5                  | 21100         | 12         | #Max           | 16QAM      | 17.31          | 1.2           | 18.51         | PASS    |
| Band7 | 5                  | 21100         | 25         | #0             | 16QAM      | 17.44          | 1.2           | 18.64         | PASS    |
| Band7 | 5                  | 21425         | 1          | #0             | QPSK       | 21.04          | 1.2           | 22.24         | PASS    |
| Band7 | 5                  | 21425         | 1          | #Mid           | QPSK       | 20.73          | 1.2           | 21.93         | PASS    |
| Band7 | 5                  | 21425         | 1          | #Max           | QPSK       | 20.37          | 1.2           | 21.57         | PASS    |
| Band7 | 5                  | 21425         | 12         | #0             | QPSK       | 19.86          | 1.2           | 21.06         | PASS    |
| Band7 | 5                  | 21425         | 12         | #Mid           | QPSK       | 19.83          | 1.2           | 21.03         | PASS    |
| Band7 | 5                  | 21425         | 12         | #Max           | QPSK       | 19.63          | 1.2           | 20.83         | PASS    |
| Band7 | 5                  | 21425         | 25         | #0             | QPSK       | 19.73          | 1.2           | 20.93         | PASS    |
| Band7 | 5                  | 21425         | 1          | #0             | 16QAM      | 20.64          | 1.2           | 21.84         | PASS    |
| Band7 | 5                  | 21425         | 1          | #Mid           | 16QAM      | 20.32          | 1.2           | 21.52         | PASS    |
| Band7 | 5                  | 21425         | 1          | #Max           | 16QAM      | 20.04          | 1.2           | 21.24         | PASS    |

|       |    |       |    |      |       |       |     |       |      |
|-------|----|-------|----|------|-------|-------|-----|-------|------|
| Band7 | 5  | 21425 | 12 | #0   | 16QAM | 18.92 | 1.2 | 20.12 | PASS |
| Band7 | 5  | 21425 | 12 | #Mid | 16QAM | 18.86 | 1.2 | 20.06 | PASS |
| Band7 | 5  | 21425 | 12 | #Max | 16QAM | 18.67 | 1.2 | 19.87 | PASS |
| Band7 | 5  | 21425 | 25 | #0   | 16QAM | 18.74 | 1.2 | 19.94 | PASS |
| Band7 | 10 | 20800 | 1  | #0   | QPSK  | 19.47 | 1.2 | 20.67 | PASS |
| Band7 | 10 | 20800 | 1  | #Mid | QPSK  | 19.74 | 1.2 | 20.94 | PASS |
| Band7 | 10 | 20800 | 1  | #Max | QPSK  | 20.54 | 1.2 | 21.74 | PASS |
| Band7 | 10 | 20800 | 25 | #0   | QPSK  | 18.31 | 1.2 | 19.51 | PASS |
| Band7 | 10 | 20800 | 25 | #Mid | QPSK  | 18.72 | 1.2 | 19.92 | PASS |
| Band7 | 10 | 20800 | 25 | #Max | QPSK  | 19.02 | 1.2 | 20.22 | PASS |
| Band7 | 10 | 20800 | 50 | #0   | QPSK  | 18.66 | 1.2 | 19.86 | PASS |
| Band7 | 10 | 21100 | 1  | #0   | QPSK  | 20.54 | 1.2 | 21.74 | PASS |
| Band7 | 10 | 21100 | 1  | #Mid | QPSK  | 19.59 | 1.2 | 20.79 | PASS |
| Band7 | 10 | 21100 | 1  | #Max | QPSK  | 18.89 | 1.2 | 20.09 | PASS |
| Band7 | 10 | 21100 | 25 | #0   | QPSK  | 18.91 | 1.2 | 20.11 | PASS |
| Band7 | 10 | 21100 | 25 | #Mid | QPSK  | 18.58 | 1.2 | 19.78 | PASS |
| Band7 | 10 | 21100 | 25 | #Max | QPSK  | 18.03 | 1.2 | 19.23 | PASS |
| Band7 | 10 | 21100 | 50 | #0   | QPSK  | 18.48 | 1.2 | 19.68 | PASS |
| Band7 | 10 | 21400 | 1  | #0   | QPSK  | 21.04 | 1.2 | 22.24 | PASS |
| Band7 | 10 | 21400 | 1  | #Mid | QPSK  | 21.10 | 1.2 | 22.30 | PASS |
| Band7 | 10 | 21400 | 1  | #Max | QPSK  | 20.56 | 1.2 | 21.76 | PASS |
| Band7 | 10 | 21400 | 25 | #0   | QPSK  | 19.97 | 1.2 | 21.17 | PASS |
| Band7 | 10 | 21400 | 25 | #Mid | QPSK  | 20.03 | 1.2 | 21.23 | PASS |
| Band7 | 10 | 21400 | 25 | #Max | QPSK  | 19.70 | 1.2 | 20.90 | PASS |
| Band7 | 10 | 21400 | 50 | #0   | QPSK  | 19.85 | 1.2 | 21.05 | PASS |



## Appendix 2. Frequency stability

| Band   | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Voltage (Vdc) | Temperature (C) | Result (Hz) | Result (ppm) | Low Limit (ppm) | High Limit (ppm) | Verdict |
|--------|-----------------|------------|---------|-------------|------------|---------------|-----------------|-------------|--------------|-----------------|------------------|---------|
| Band 7 | 5               | 20775      | 25      | #0          | QPSK       | LV            | NT              | -9.36       | -0.004       | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 20775      | 25      | #0          | QPSK       | NV            | NT              | -10.30      | -0.004       | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 20775      | 25      | #0          | QPSK       | HV            | NT              | -13.26      | -0.005       | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 20775      | 25      | #0          | 16QAM      | LV            | NT              | -6.65       | -0.003       | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 20775      | 25      | #0          | 16QAM      | NV            | NT              | -9.98       | -0.004       | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 20775      | 25      | #0          | 16QAM      | HV            | NT              | -5.61       | -0.002       | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 21100      | 25      | #0          | QPSK       | LV            | NT              | -6.88       | -0.003       | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 21100      | 25      | #0          | QPSK       | NV            | NT              | -8.55       | -0.003       | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 21100      | 25      | #0          | QPSK       | HV            | NT              | -5.82       | -0.002       | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 21100      | 25      | #0          | 16QAM      | LV            | NT              | -9.70       | -0.004       | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 21100      | 25      | #0          | 16QAM      | NV            | NT              | -12.06      | -0.005       | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 21100      | 25      | #0          | 16QAM      | HV            | NT              | -1.14       | 0.000        | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 21425      | 25      | #0          | QPSK       | LV            | NT              | -14.53      | -0.006       | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 21425      | 25      | #0          | QPSK       | NV            | NT              | 1.33        | 0.001        | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 21425      | 25      | #0          | QPSK       | HV            | NT              | 1.44        | 0.001        | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 21425      | 25      | #0          | 16QAM      | LV            | NT              | 0.20        | 0.000        | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 21425      | 25      | #0          | 16QAM      | NV            | NT              | 6.61        | 0.003        | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 21425      | 25      | #0          | 16QAM      | HV            | NT              | -1.24       | 0.000        | -2.5            | 2.5              | PASS    |

|        |    |       |    |    |      |    |    |        |        |      |     |      |
|--------|----|-------|----|----|------|----|----|--------|--------|------|-----|------|
| Band 7 | 10 | 20800 | 50 | #0 | QPSK | LV | NT | -0.07  | 0.000  | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | QPSK | NV | NT | -8.53  | -0.003 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | QPSK | HV | NT | 0.94   | 0.000  | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | QPSK | LV | NT | -19.76 | -0.008 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | QPSK | NV | NT | 1.24   | 0.000  | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | QPSK | HV | NT | -7.17  | -0.003 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | QPSK | LV | NT | -14.38 | -0.006 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | QPSK | NV | NT | 16.79  | 0.007  | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | QPSK | HV | NT | -4.15  | -0.002 | -2.5 | 2.5 | PASS |

| Band   | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Voltage (Vdc) | Temperature (C) | Result (Hz) | Result (ppm) | Low Limit (ppm) | High Limit (ppm) | Verdict |
|--------|-----------------|------------|---------|-------------|------------|---------------|-----------------|-------------|--------------|-----------------|------------------|---------|
| Band 7 | 5               | 20775      | 25      | #0          | QPSK       | NV            | -30             | -6.45       | -0.003       | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 20775      | 25      | #0          | QPSK       | NV            | -20             | -3.45       | -0.001       | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 20775      | 25      | #0          | QPSK       | NV            | 0               | -4.82       | -0.002       | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 20775      | 25      | #0          | QPSK       | NV            | 10              | -0.21       | 0.000        | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 20775      | 25      | #0          | QPSK       | NV            | 20              | -10.87      | -0.004       | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 20775      | 25      | #0          | 16QAM      | NV            | -30             | 1.37        | 0.001        | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 20775      | 25      | #0          | 16QAM      | NV            | -20             | -8.90       | -0.004       | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 20775      | 25      | #0          | 16QAM      | NV            | 0               | 1.85        | 0.001        | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 20775      | 25      | #0          | 16QAM      | NV            | 10              | 0.00        | 0.000        | -2.5            | 2.5              | PASS    |
| Band 7 | 5               | 20775      | 25      | #0          | 16QAM      | NV            | 20              | 0.00        | 0.000        | -2.5            | 2.5              | PASS    |

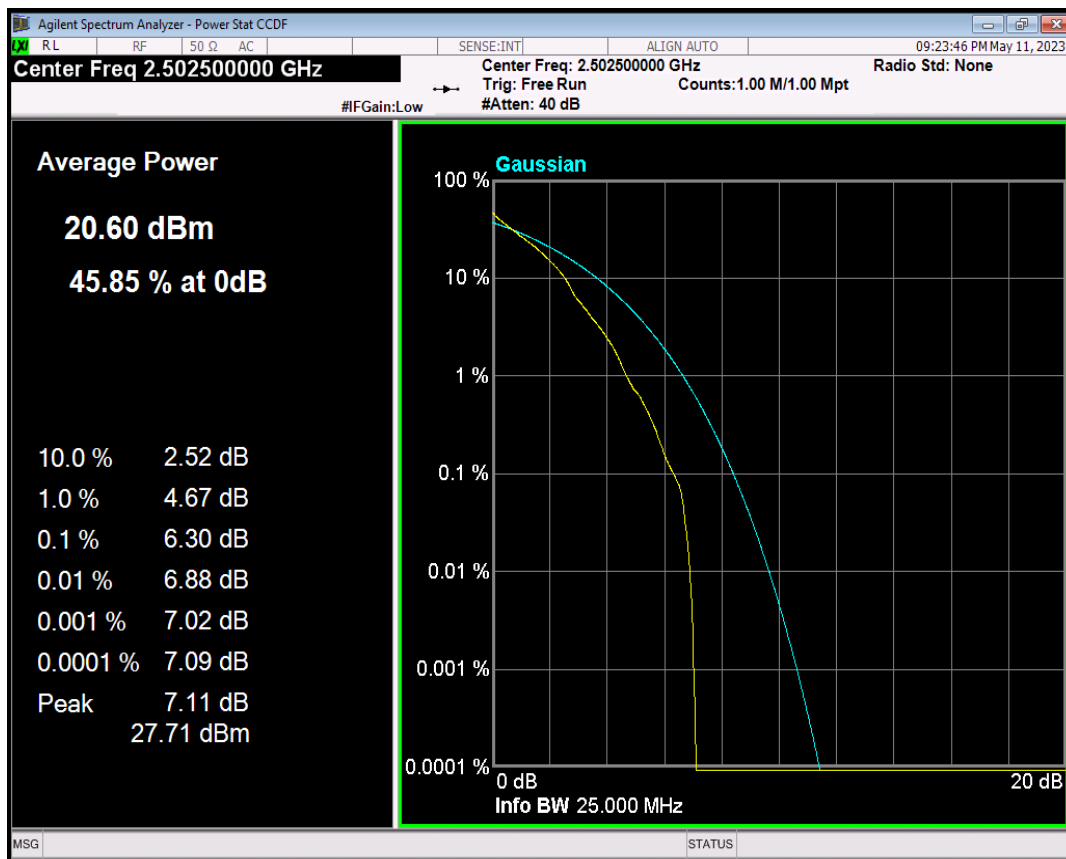
|           |    |       |    |    |       |    |     |            |            |      |     |      |
|-----------|----|-------|----|----|-------|----|-----|------------|------------|------|-----|------|
| Band<br>7 | 5  | 21100 | 25 | #0 | QPSK  | NV | -30 | 5.87       | 0.002      | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21100 | 25 | #0 | QPSK  | NV | -20 | -11.94     | -0.00<br>5 | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21100 | 25 | #0 | QPSK  | NV | 0   | 4.59       | 0.002      | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21100 | 25 | #0 | QPSK  | NV | 10  | -5.65      | -0.00<br>2 | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21100 | 25 | #0 | QPSK  | NV | 20  | -15.1<br>8 | -0.00<br>6 | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21100 | 25 | #0 | 16QAM | NV | -30 | -15.6<br>8 | -0.00<br>6 | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21100 | 25 | #0 | 16QAM | NV | -20 | 6.09       | 0.002      | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21100 | 25 | #0 | 16QAM | NV | 0   | 5.44       | 0.002      | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21100 | 25 | #0 | 16QAM | NV | 10  | 5.08       | 0.002      | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21100 | 25 | #0 | 16QAM | NV | 20  | -15.9<br>4 | -0.00<br>6 | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21425 | 25 | #0 | QPSK  | NV | -30 | -1.89      | -0.00<br>1 | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21425 | 25 | #0 | QPSK  | NV | -20 | -7.52      | -0.00<br>3 | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21425 | 25 | #0 | QPSK  | NV | 0   | -0.59      | 0.000      | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21425 | 25 | #0 | QPSK  | NV | 10  | -1.93      | -0.00<br>1 | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21425 | 25 | #0 | QPSK  | NV | 20  | -7.22      | -0.00<br>3 | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21425 | 25 | #0 | 16QAM | NV | -30 | -16.7<br>9 | -0.00<br>7 | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21425 | 25 | #0 | 16QAM | NV | -20 | -4.19      | -0.00<br>2 | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21425 | 25 | #0 | 16QAM | NV | 0   | -2.88      | -0.00<br>1 | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21425 | 25 | #0 | 16QAM | NV | 10  | -0.89      | 0.000      | -2.5 | 2.5 | PASS |
| Band<br>7 | 5  | 21425 | 25 | #0 | 16QAM | NV | 20  | -12.4<br>0 | -0.00<br>5 | -2.5 | 2.5 | PASS |
| Band<br>7 | 10 | 20800 | 50 | #0 | QPSK  | NV | -30 | -8.48      | -0.00<br>3 | -2.5 | 2.5 | PASS |
| Band      | 10 | 20800 | 50 | #0 | QPSK  | NV | -20 | 5.49       | 0.002      | -2.5 | 2.5 | PASS |

|        |    |       |    |    |      |    |     |        |        |      |     |      |
|--------|----|-------|----|----|------|----|-----|--------|--------|------|-----|------|
| 7      |    |       |    |    |      |    |     |        |        |      |     |      |
| Band 7 | 10 | 20800 | 50 | #0 | QPSK | NV | 0   | -17.27 | -0.007 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | QPSK | NV | 10  | -5.94  | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | QPSK | NV | 20  | -8.77  | -0.004 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | QPSK | NV | -30 | 7.47   | 0.003  | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | QPSK | NV | -20 | -3.42  | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | QPSK | NV | 0   | -8.98  | -0.004 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | QPSK | NV | 10  | 5.72   | 0.002  | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | QPSK | NV | 20  | -8.91  | -0.004 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | QPSK | NV | -30 | 1.12   | 0.000  | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | QPSK | NV | -20 | -3.26  | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | QPSK | NV | 0   | -13.90 | -0.005 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | QPSK | NV | 10  | -10.71 | -0.004 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | QPSK | NV | 20  | -3.39  | -0.001 | -2.5 | 2.5 | PASS |

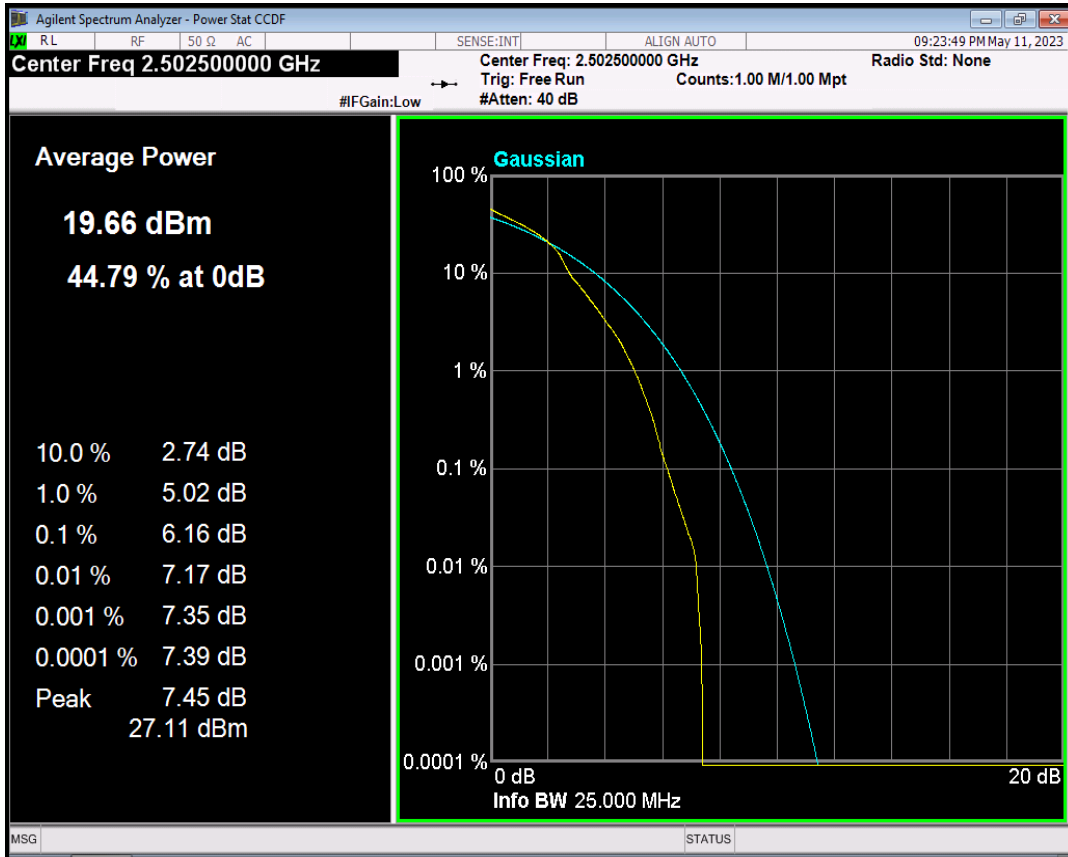
### Appendix 3. Peak-to-Average Ratio

| Band  | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Result (dB) | high Limit (dB) | Verdict |
|-------|-----------------|------------|---------|-------------|------------|-------------|-----------------|---------|
| Band7 | 5               | 20775      | 1       | #0          | QPSK       | 6.30        | 13              | PASS    |
| Band7 | 5               | 20775      | 1       | #0          | 16QAM      | 6.16        | 13              | PASS    |
| Band7 | 5               | 21100      | 1       | #0          | QPSK       | 5.56        | 13              | PASS    |
| Band7 | 5               | 21100      | 1       | #0          | 16QAM      | 6.05        | 13              | PASS    |
| Band7 | 5               | 21425      | 1       | #0          | QPSK       | 5.34        | 13              | PASS    |
| Band7 | 5               | 21425      | 1       | #0          | 16QAM      | 5.95        | 13              | PASS    |
| Band7 | 10              | 20800      | 1       | #0          | QPSK       | 5.69        | 13              | PASS    |
| Band7 | 10              | 21100      | 1       | #0          | QPSK       | 5.70        | 13              | PASS    |
| Band7 | 10              | 21400      | 1       | #0          | QPSK       | 4.92        | 13              | PASS    |

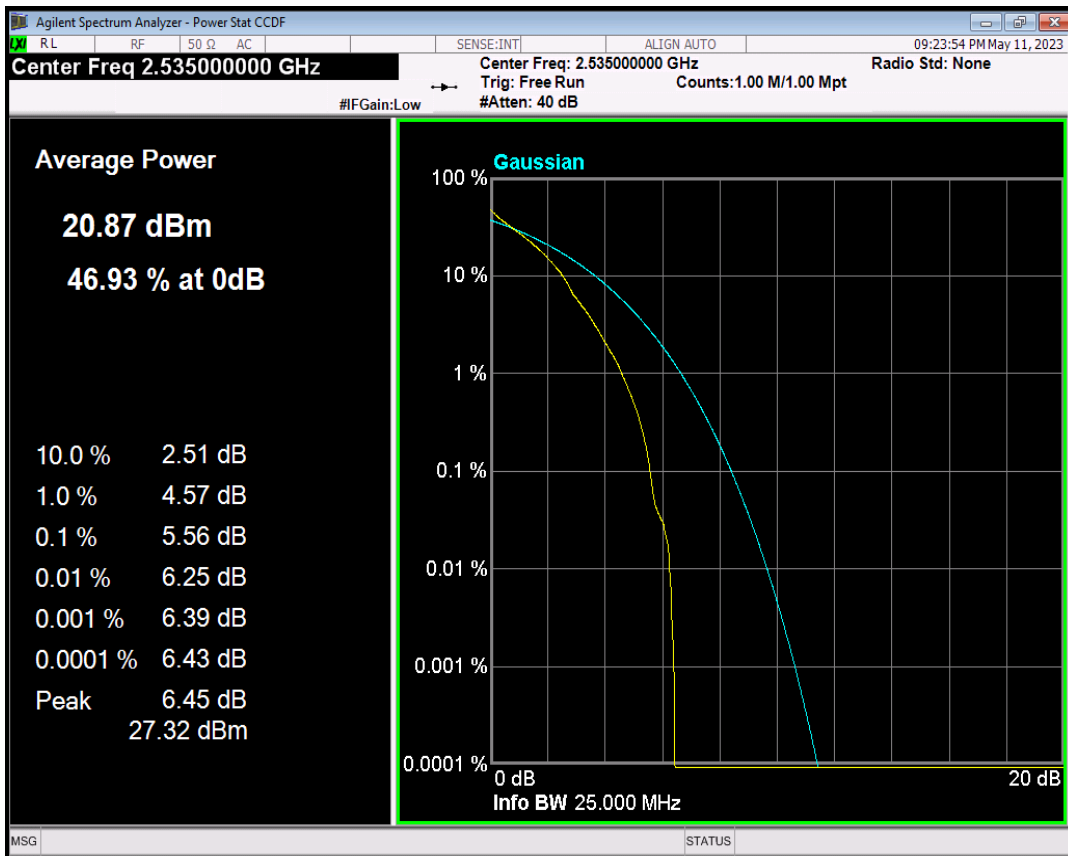
Band7 QPSK BW=5MHz Channel=20775 RB Size=1 Position=#0



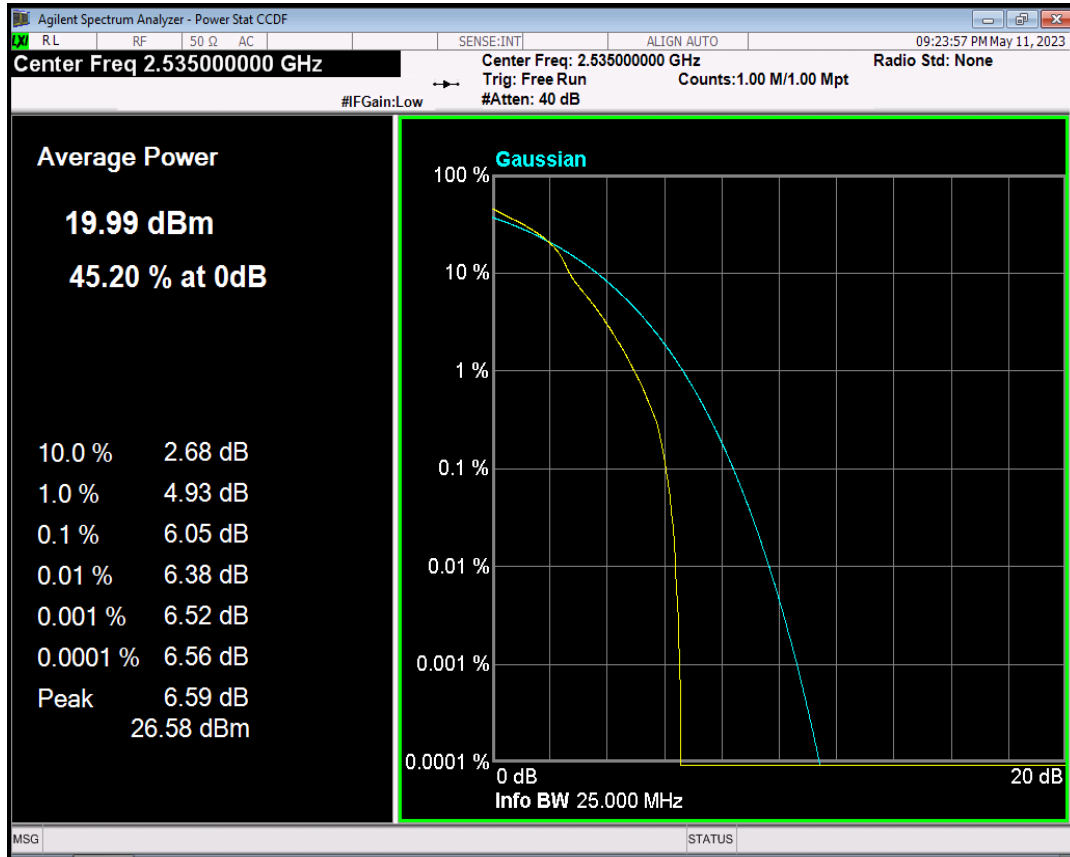
Band7 16QAM BW=5MHz Channel=20775 RB Size=1 Position=#0



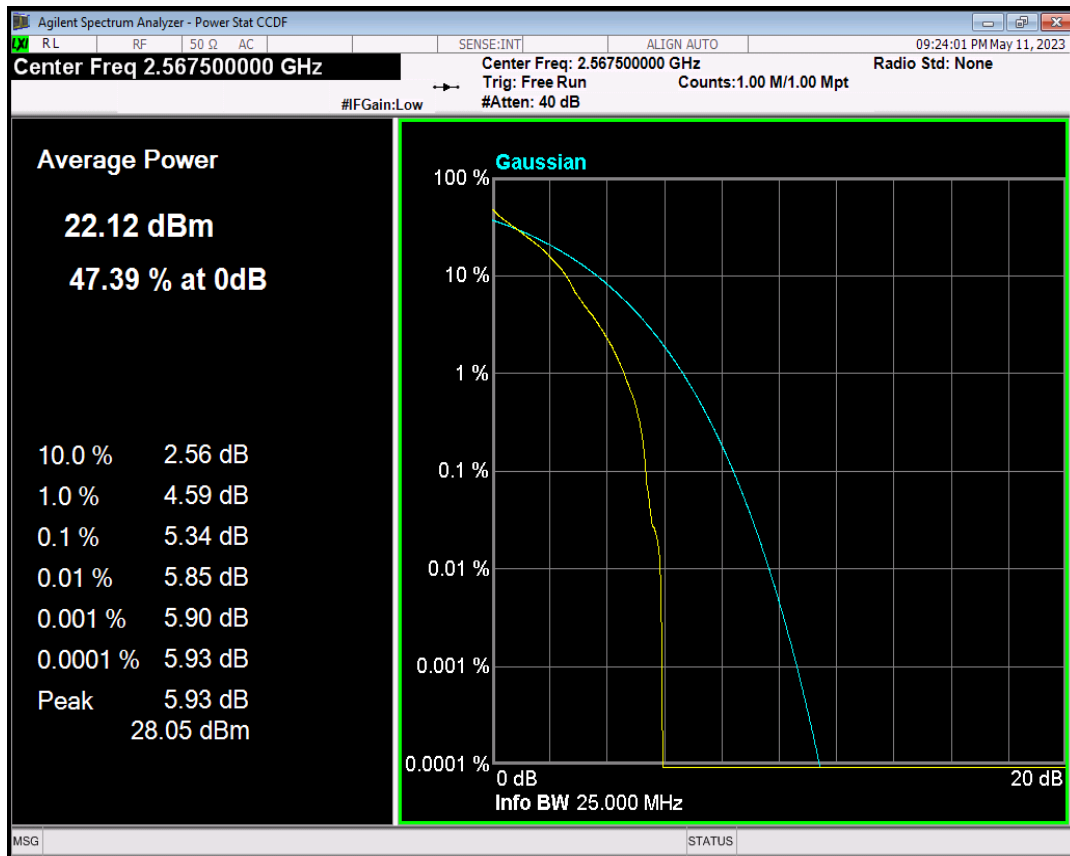
Band7 QPSK BW=5MHz Channel=21100 RB Size=1 Position=#0



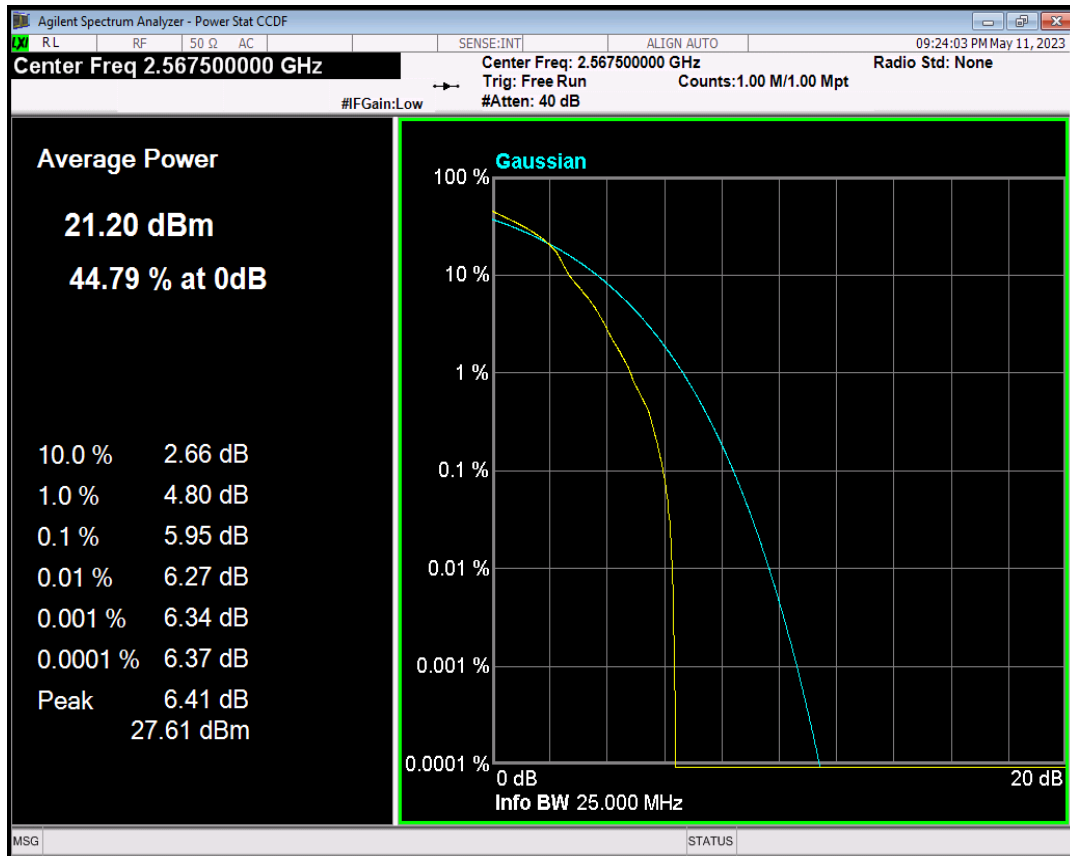
Band7 16QAM BW=5MHz Channel=21100 RB Size=1 Position=#0



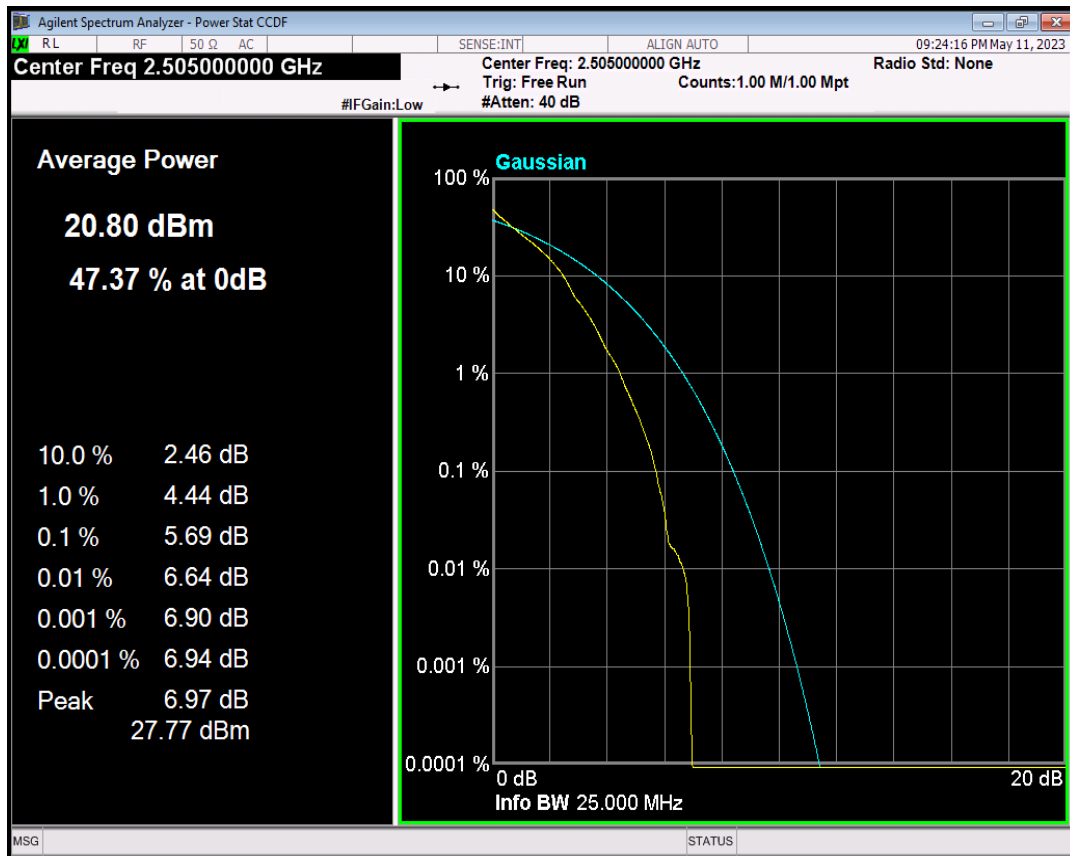
Band7 QPSK BW=5MHz Channel=21425 RB Size=1 Position=#0



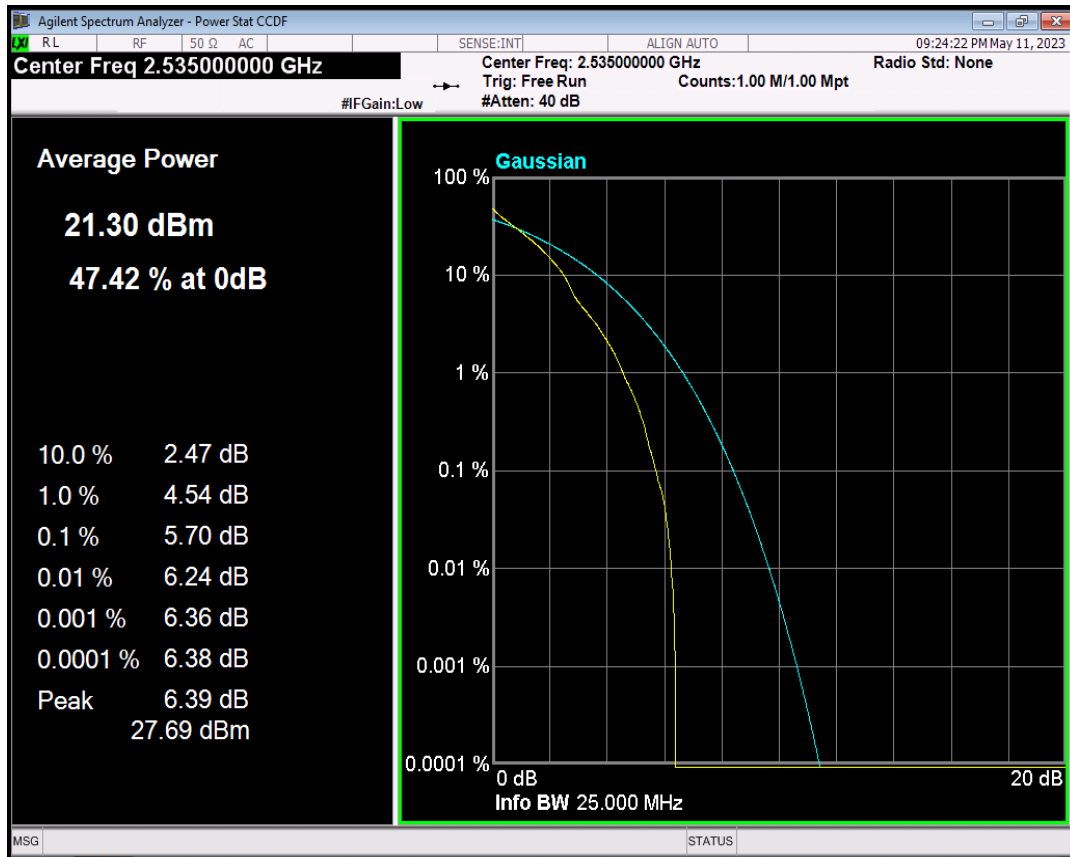
Band7 16QAM BW=5MHz Channel=21425 RB Size=1 Position=#0



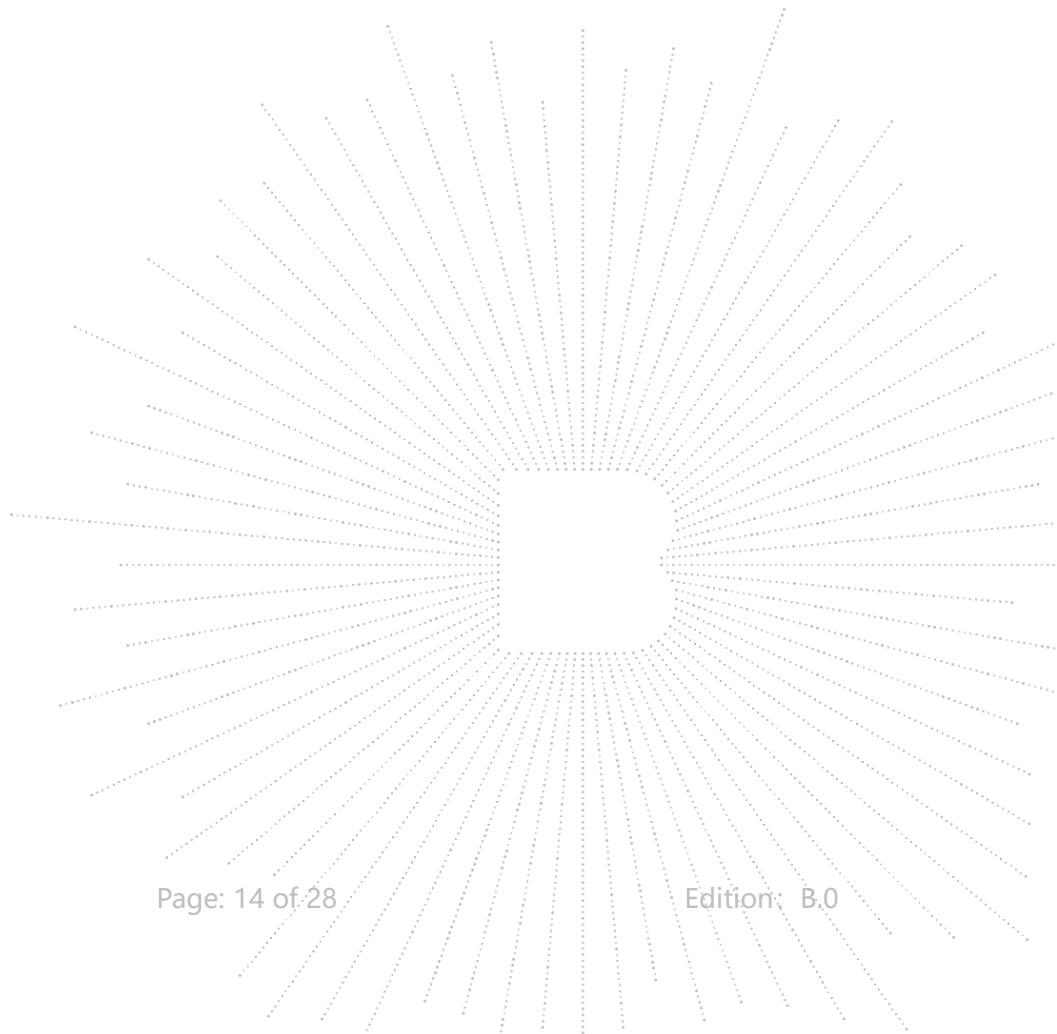
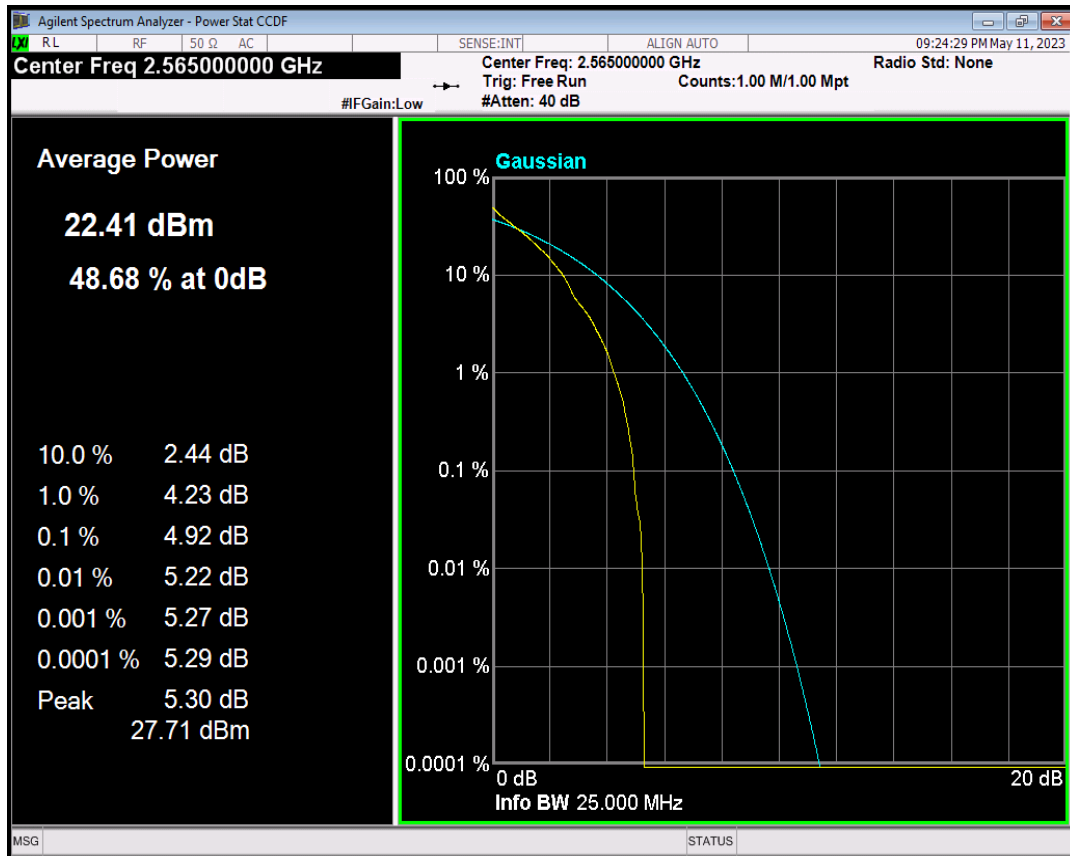
Band7 QPSK BW=10MHz Channel=20800 RB Size=1 Position=#0



Band7 QPSK BW=10MHz Channel=21100 RB Size=1 Position=#0



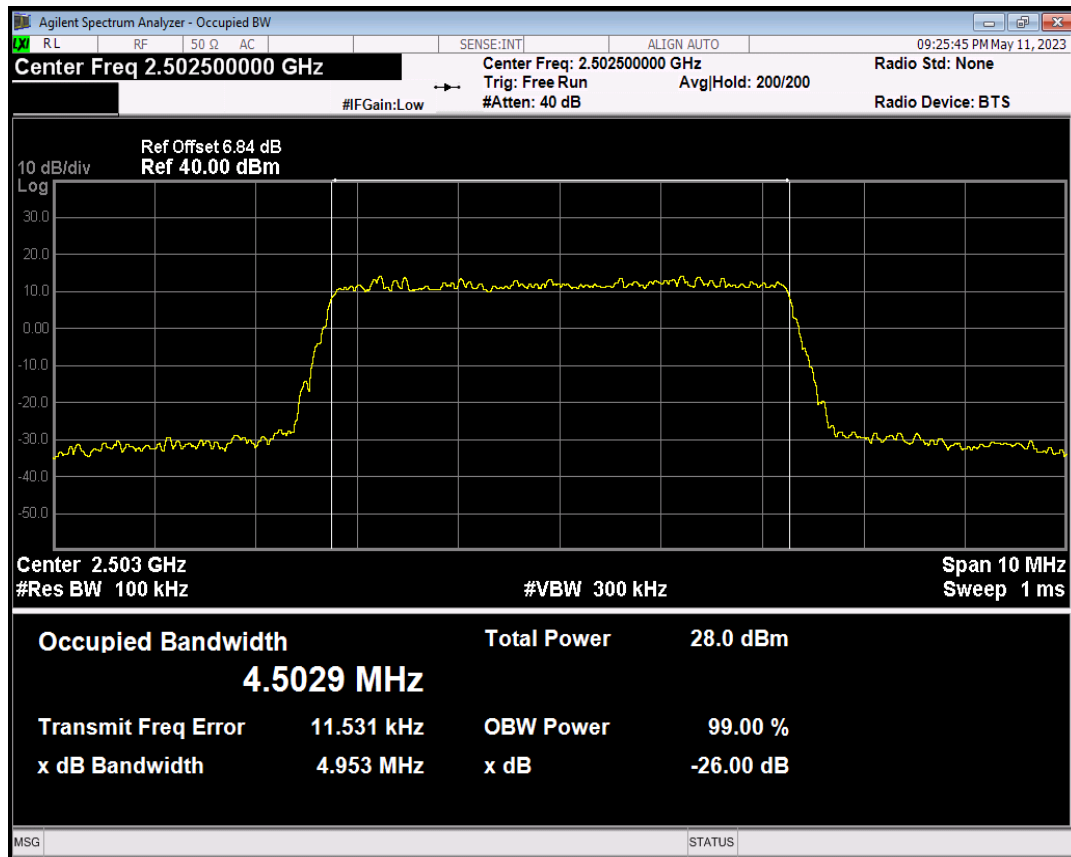
Band7 QPSK BW=10MHz Channel=21400 RB Size=1 Position=#0



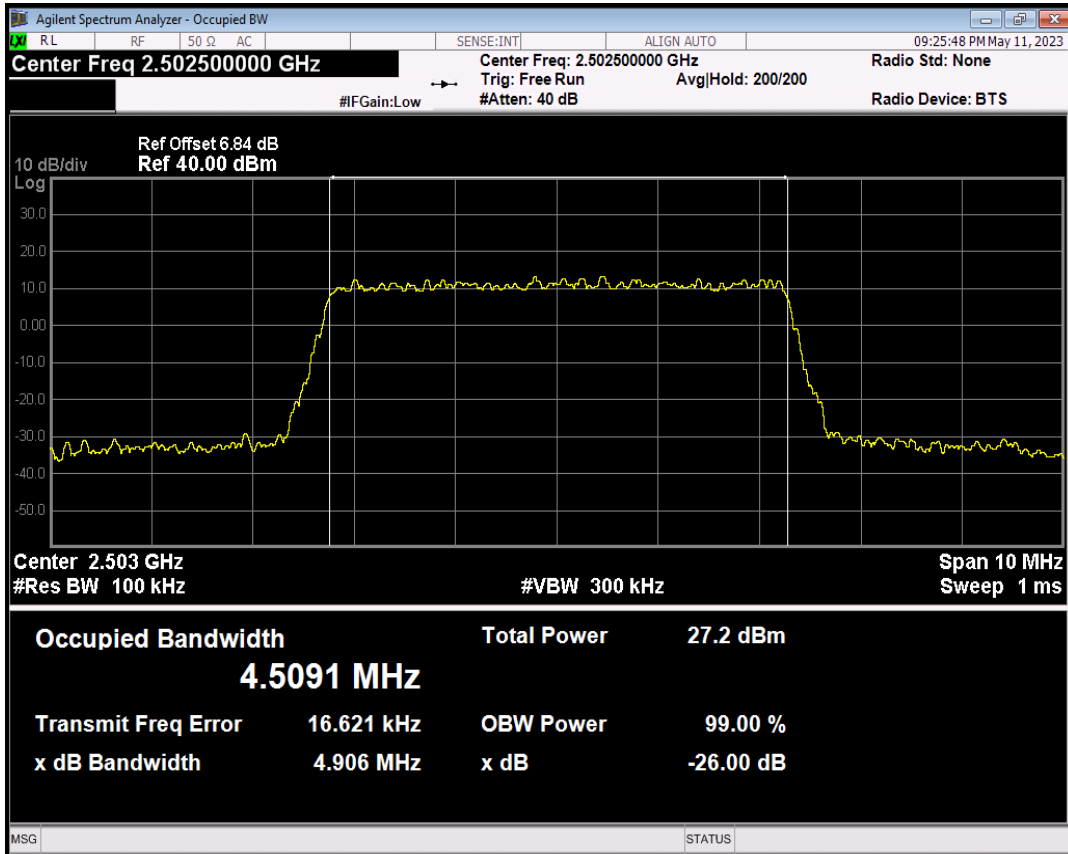
## Appendix 4. Occupied bandwidth

| Band  | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | 99% OBW (MHz) | -26dB EBW (MHz) | Verdict |
|-------|-----------------|------------|---------|-------------|------------|---------------|-----------------|---------|
| Band7 | 5               | 20775      | 25      | #0          | QPSK       | 4.503         | 4.953           | PASS    |
| Band7 | 5               | 20775      | 25      | #0          | 16QAM      | 4.509         | 4.906           | PASS    |
| Band7 | 5               | 21100      | 25      | #0          | QPSK       | 4.506         | 4.925           | PASS    |
| Band7 | 5               | 21100      | 25      | #0          | 16QAM      | 4.502         | 4.927           | PASS    |
| Band7 | 5               | 21425      | 25      | #0          | QPSK       | 4.499         | 4.926           | PASS    |
| Band7 | 5               | 21425      | 25      | #0          | 16QAM      | 4.505         | 4.906           | PASS    |
| Band7 | 10              | 20800      | 50      | #0          | QPSK       | 8.950         | 9.737           | PASS    |
| Band7 | 10              | 21100      | 50      | #0          | QPSK       | 8.996         | 9.796           | PASS    |
| Band7 | 10              | 21400      | 50      | #0          | QPSK       | 8.966         | 9.598           | PASS    |

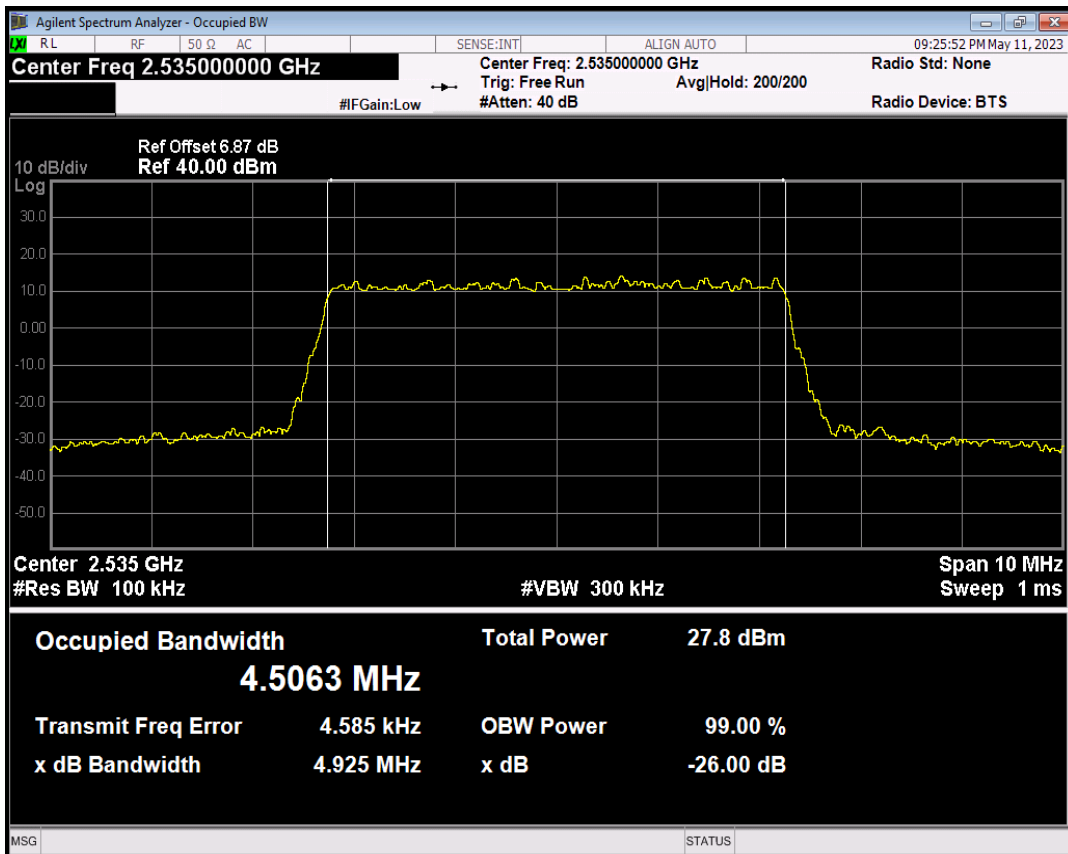
Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0



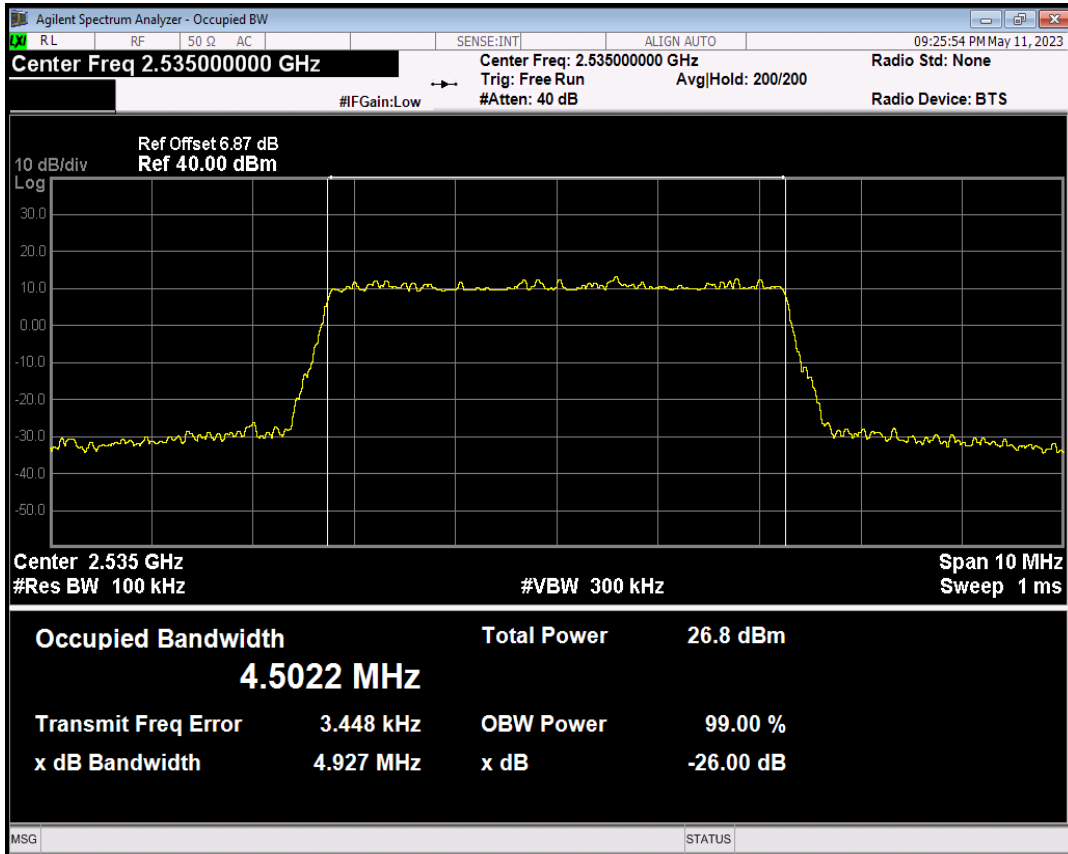
Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0



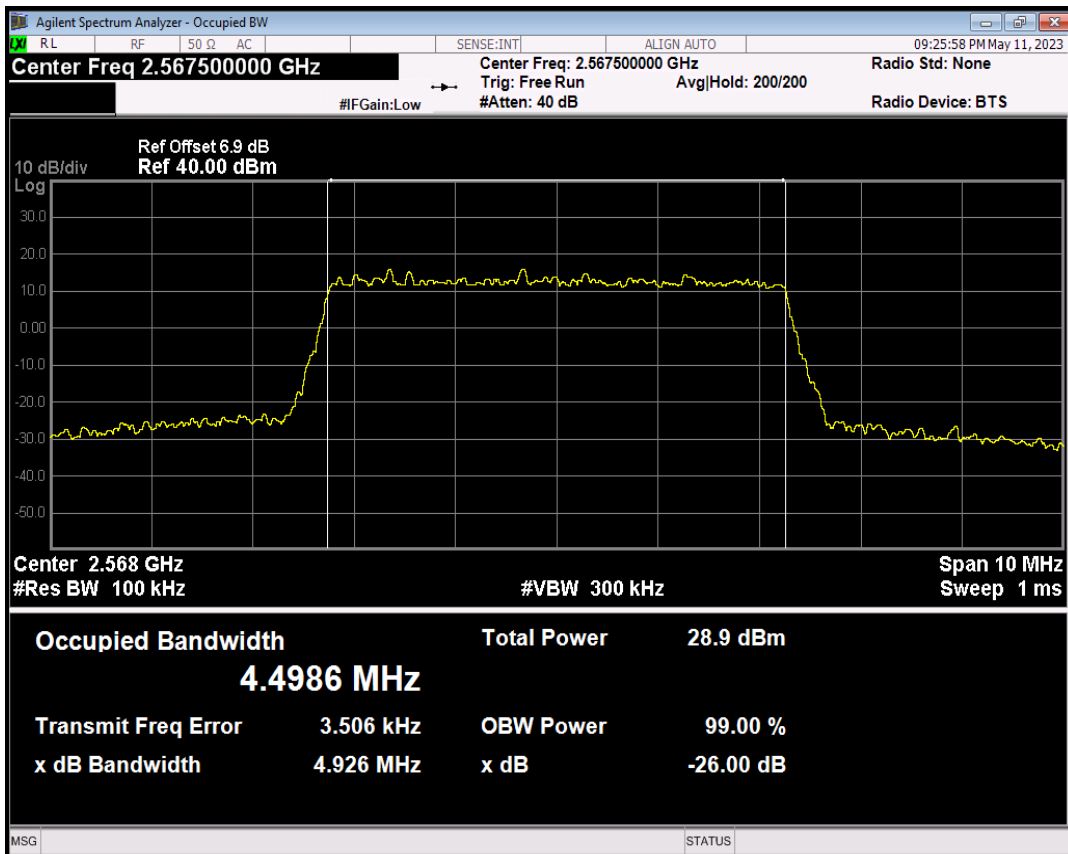
Band7 QPSK BW=5MHz Channel=21100 RB Size=25 Position=#0



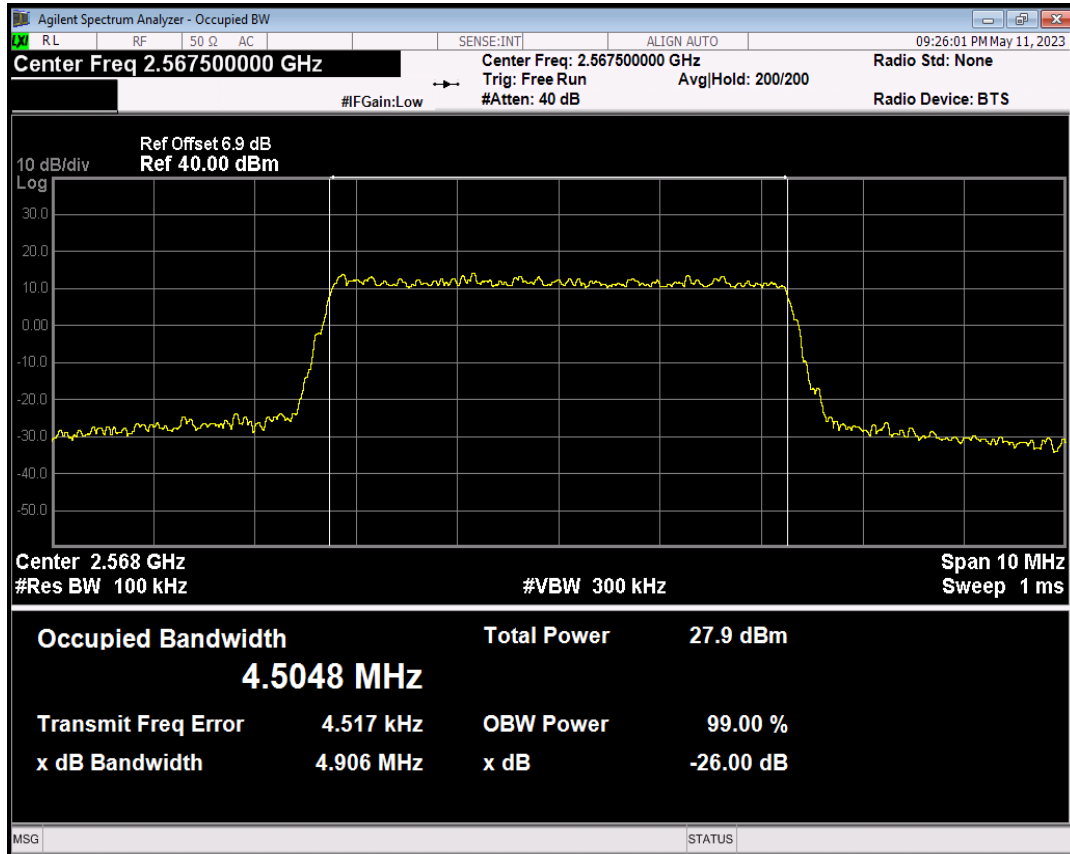
Band7 16QAM BW=5MHz Channel=21100 RB Size=25 Position=#0



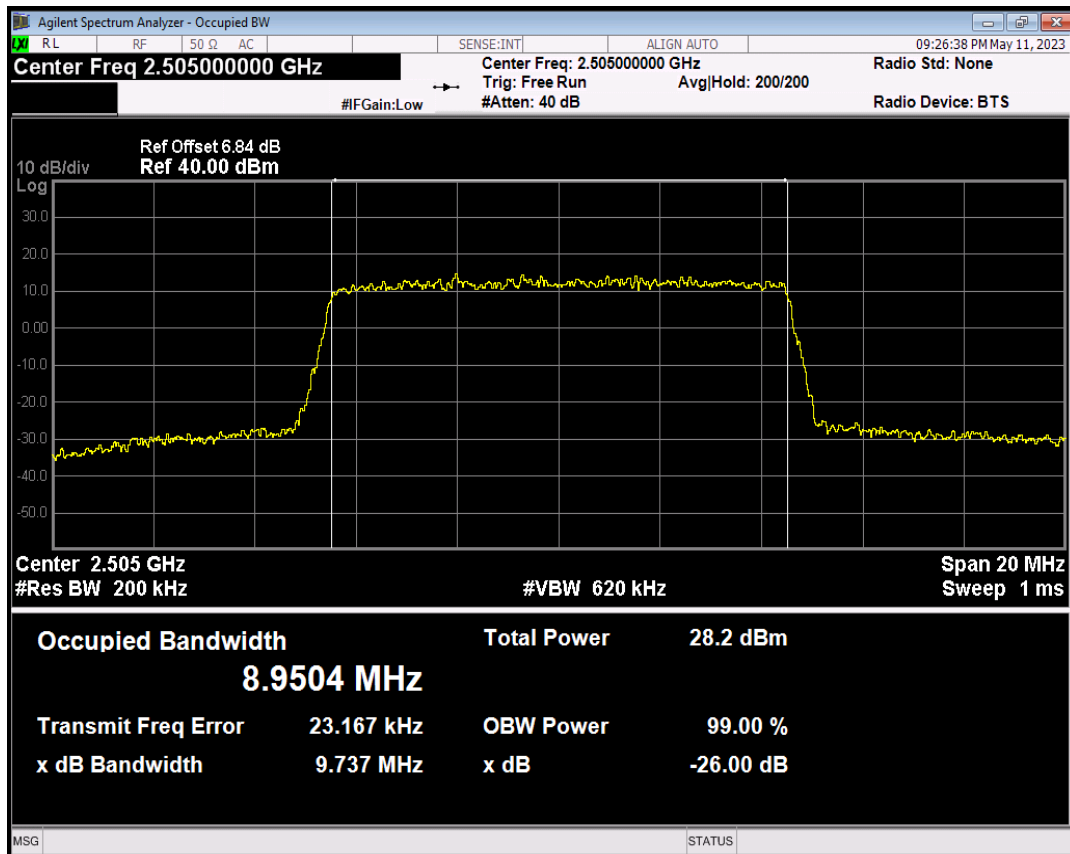
Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0



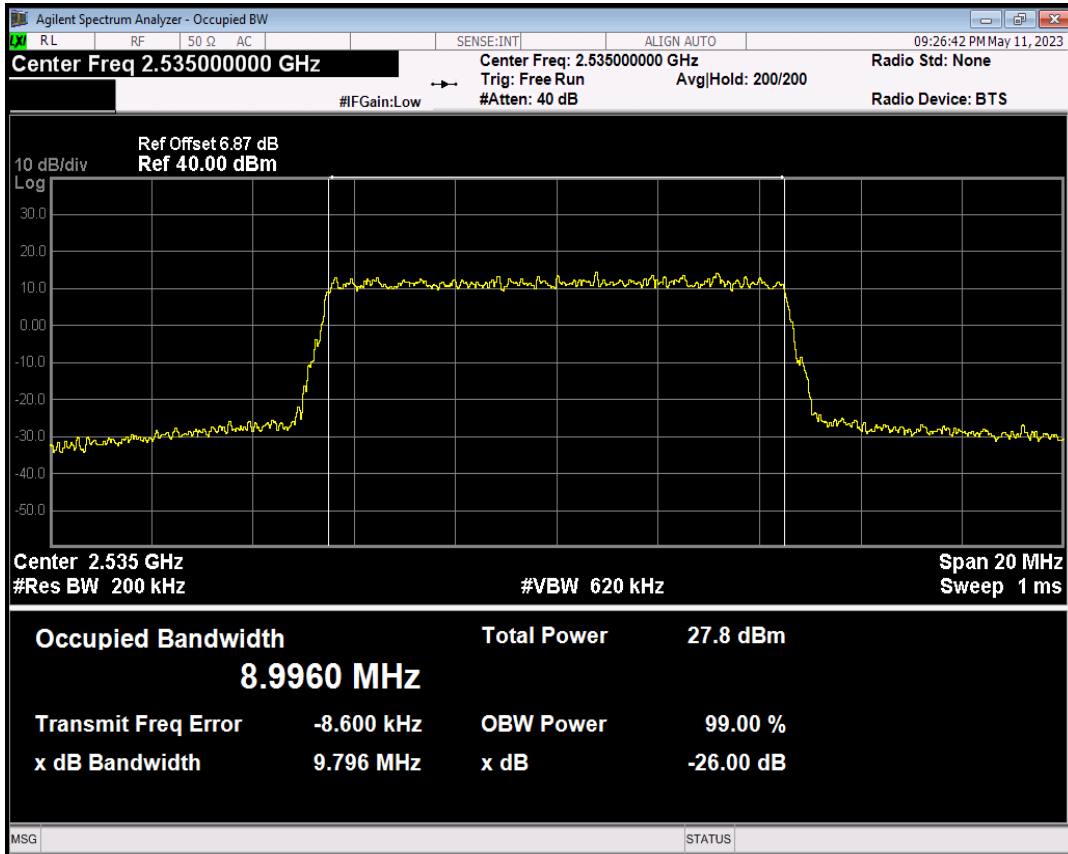
Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0



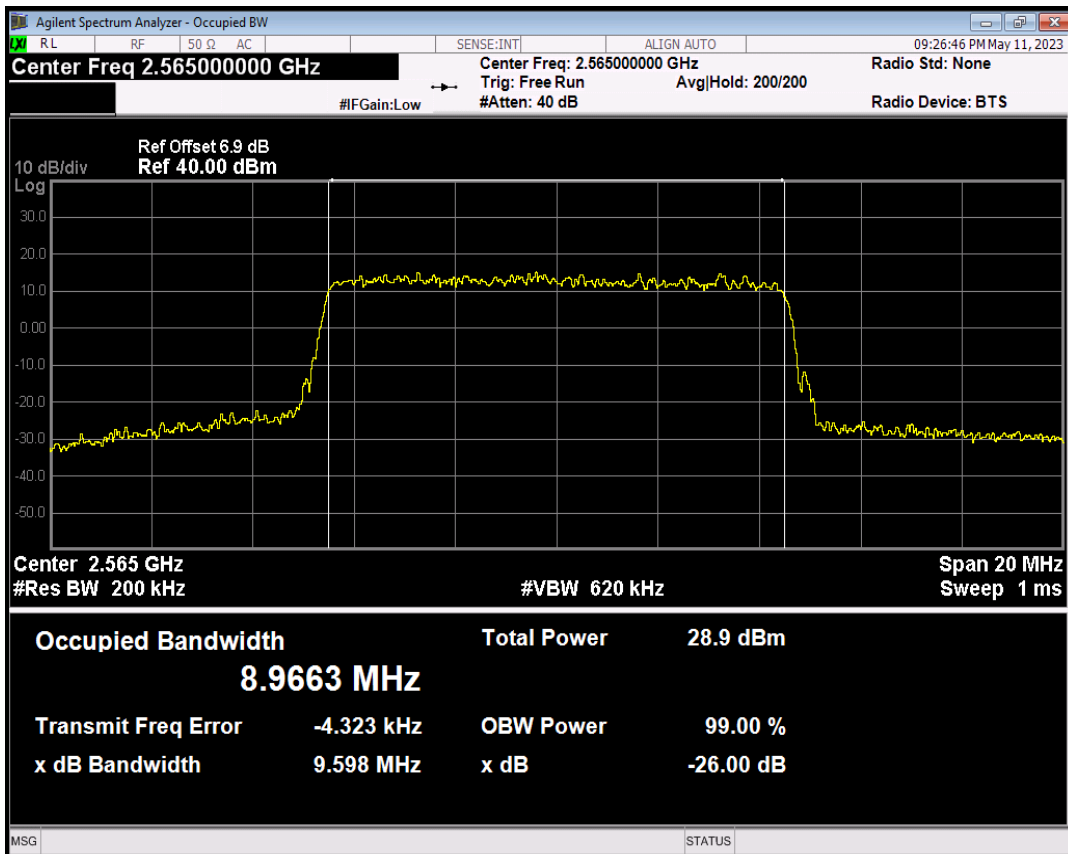
Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0



Band7 QPSK BW=10MHz Channel=21100 RB Size=50 Position=#0



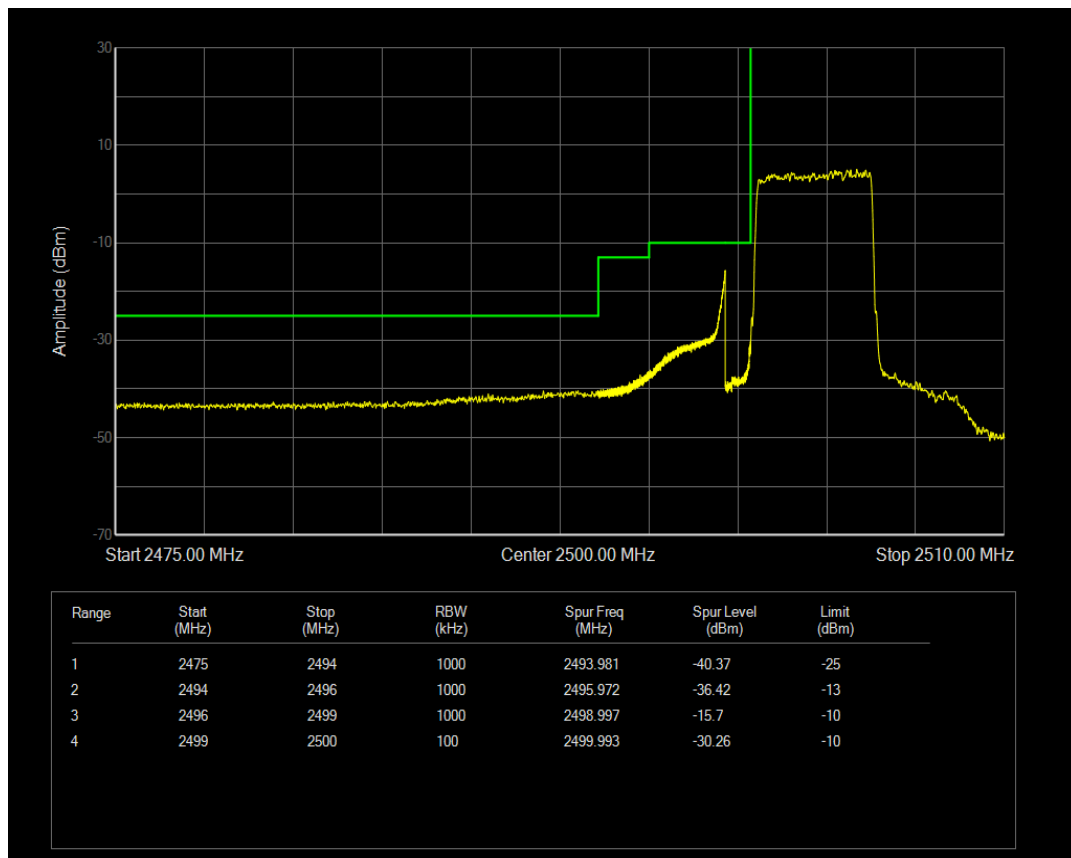
Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0



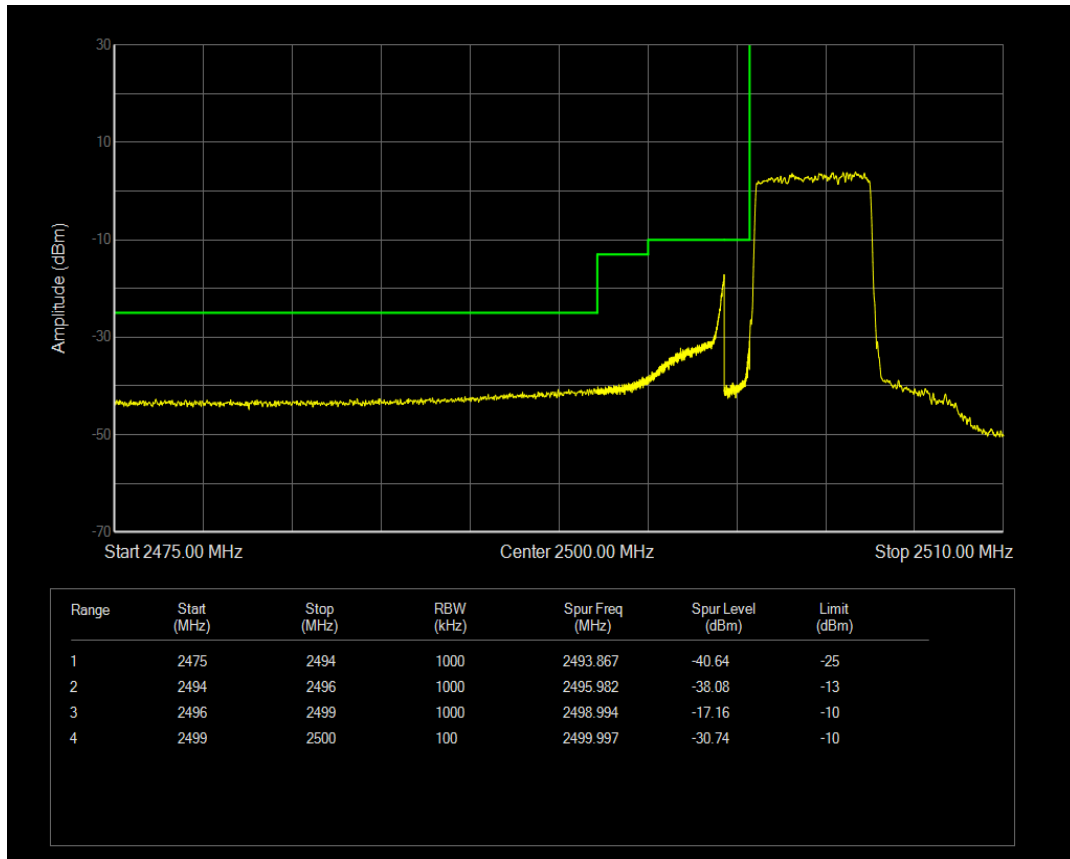
## Appendix 5. Band edge

| Band  | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|-------|-----------------|------------|---------|-------------|------------|-----------------|------------------|-------------|---------|
| Band7 | 5               | 20775      | 25      | #0          | QPSK       | 2499.00         | -15.70           | -10         | PASS    |
| Band7 | 5               | 20775      | 25      | #0          | 16QAM      | 2498.99         | -17.16           | -10         | PASS    |
| Band7 | 5               | 21425      | 25      | #0          | QPSK       | 2571.00         | -15.02           | -10         | PASS    |
| Band7 | 5               | 21425      | 25      | #0          | 16QAM      | 2571.00         | -17.06           | -10         | PASS    |
| Band7 | 10              | 20800      | 50      | #0          | QPSK       | 2489.94         | -41.01           | -25         | PASS    |
| Band7 | 10              | 21400      | 50      | #0          | QPSK       | 2571.00         | -26.59           | -10         | PASS    |

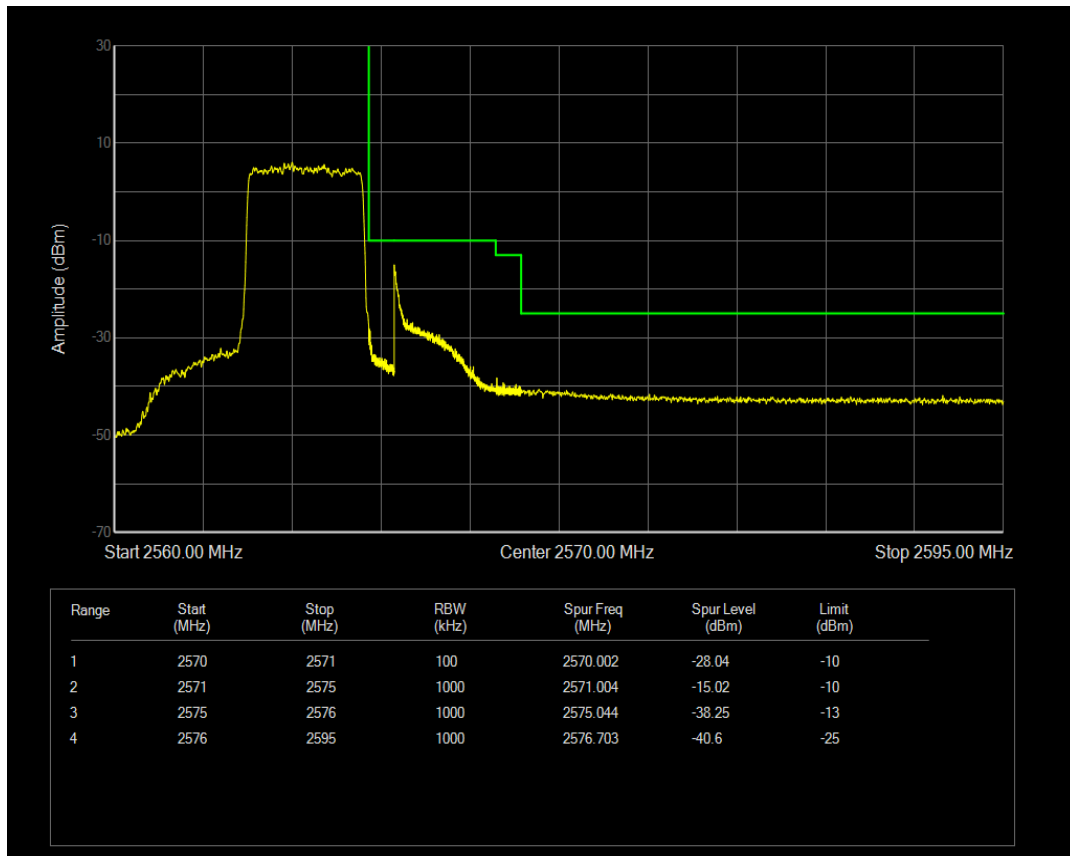
Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0



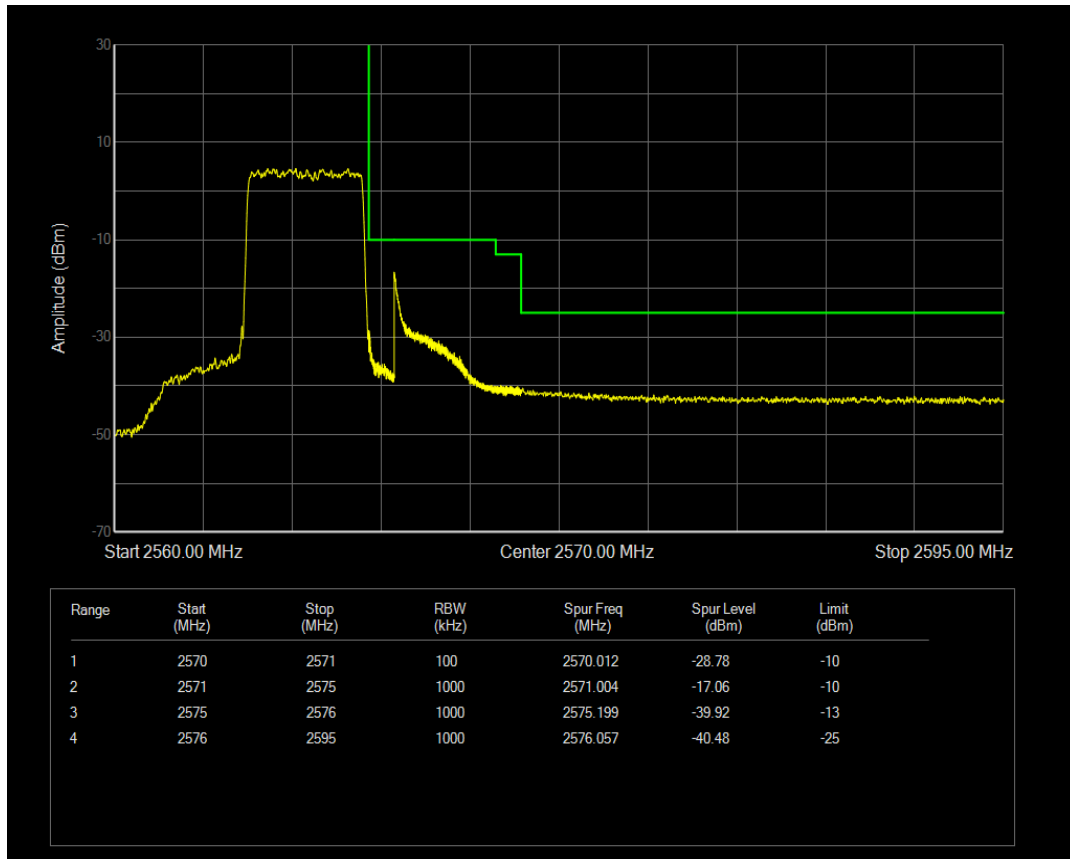
Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0



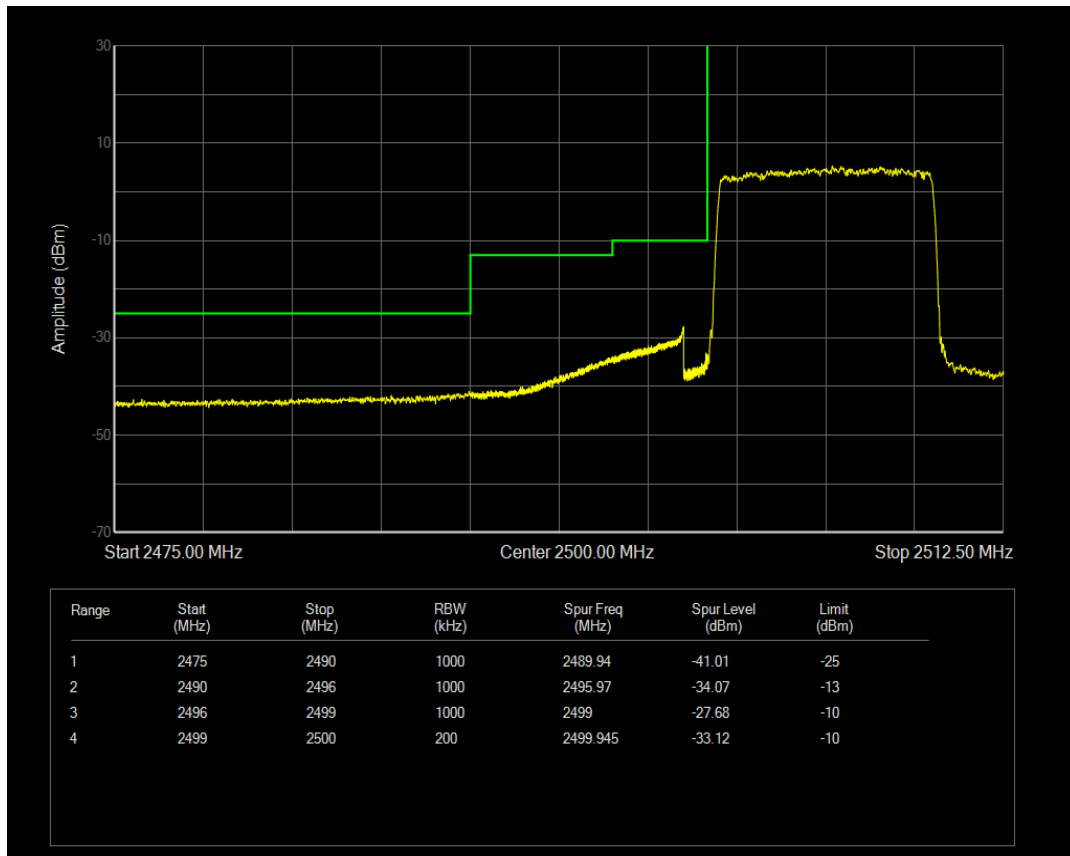
Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0



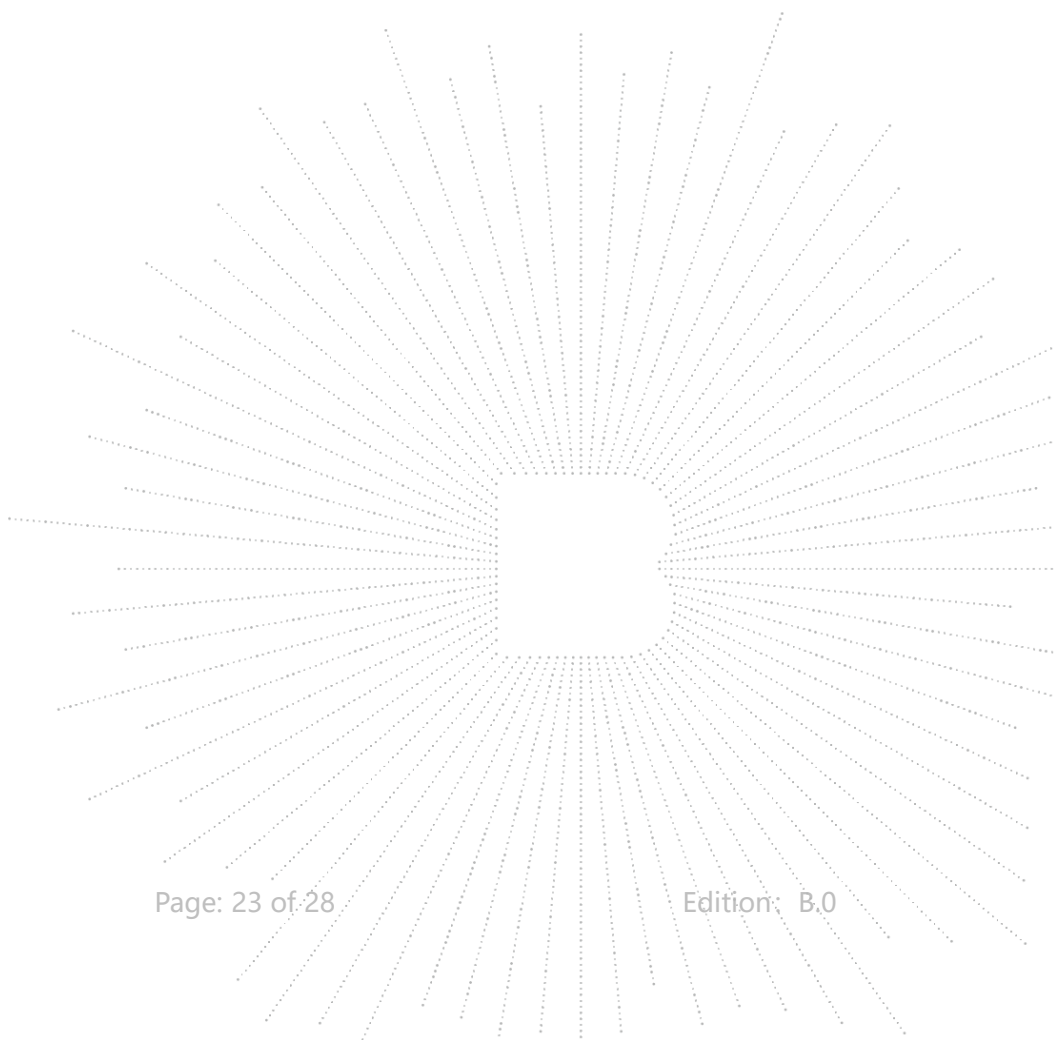
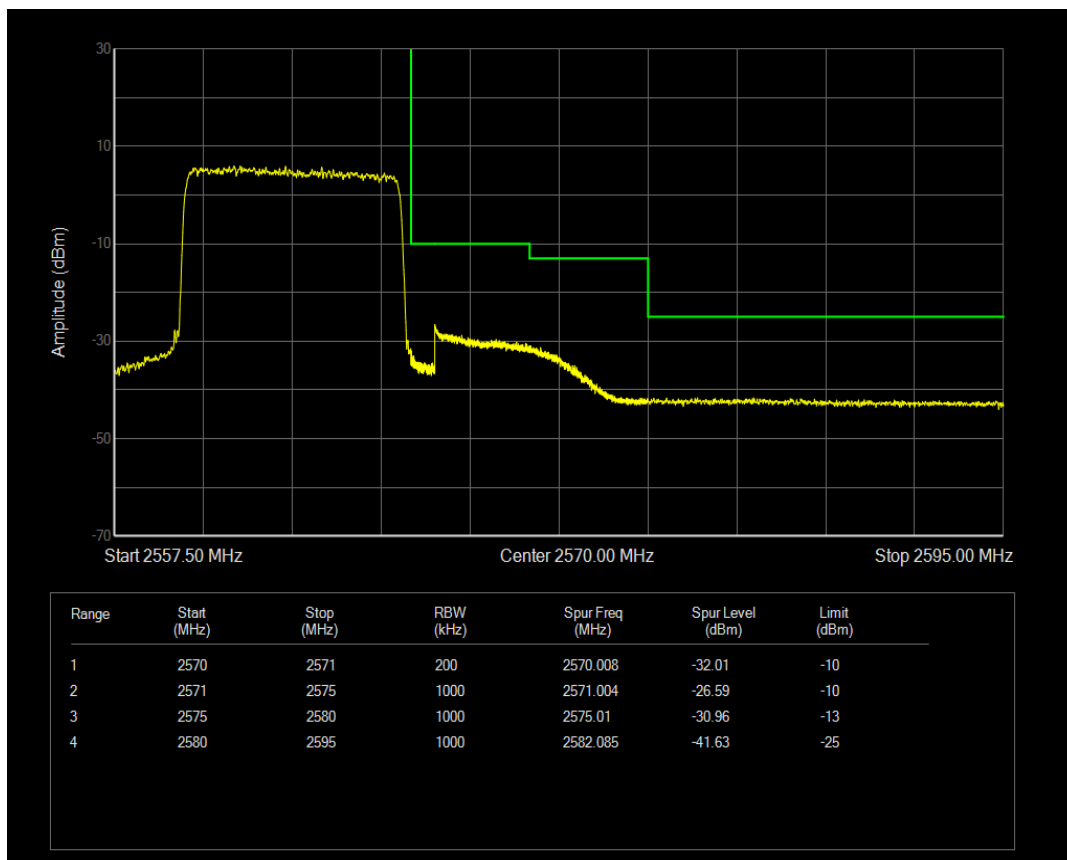
Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0



Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0



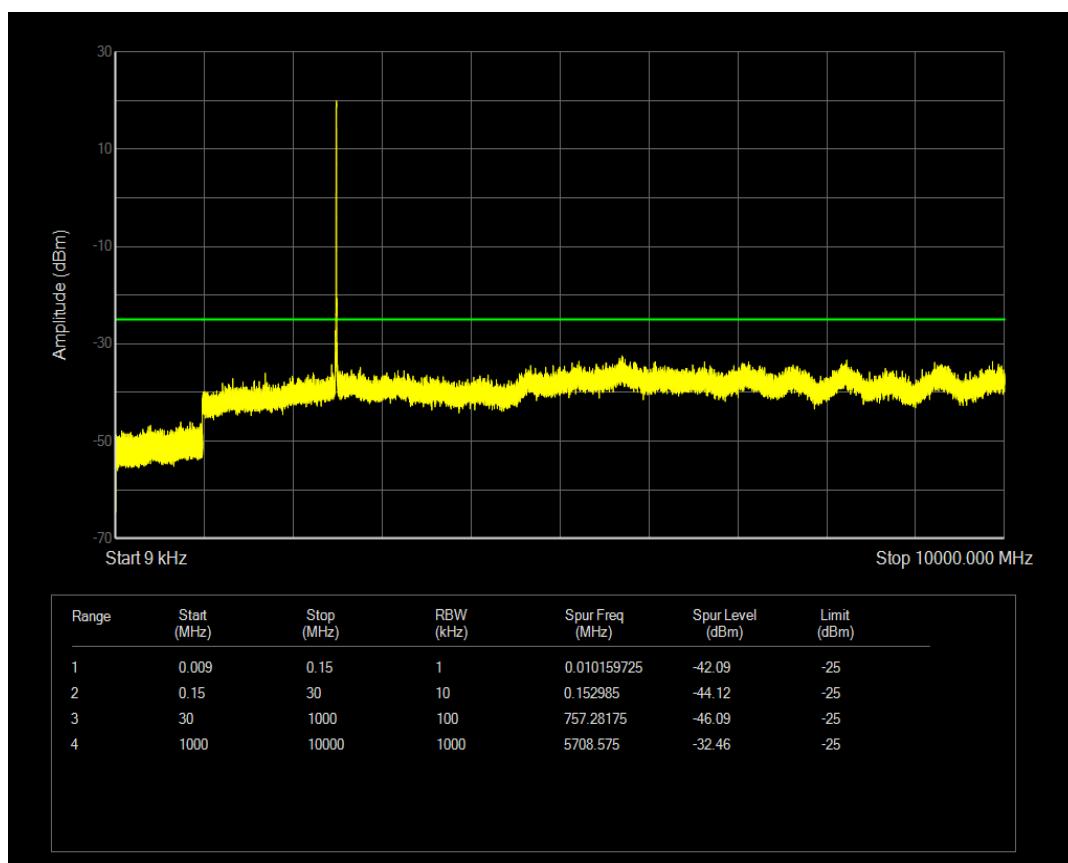
Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0



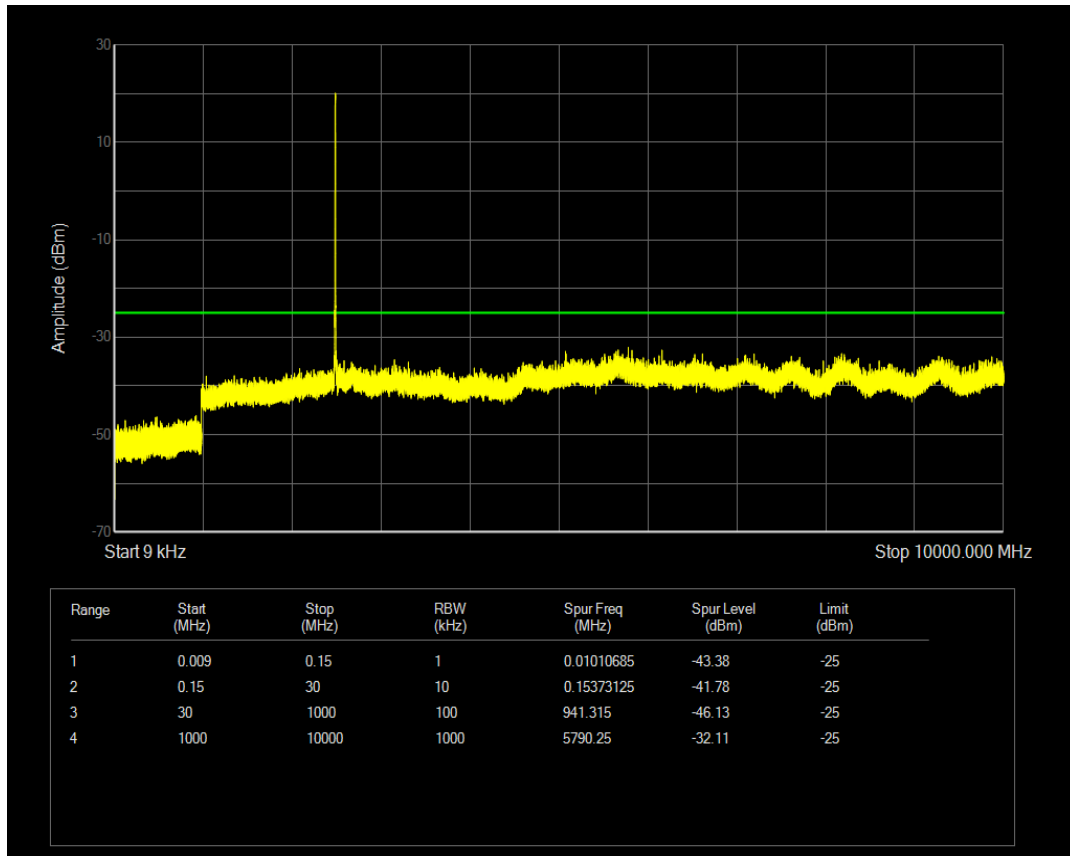
## Appendix 6. Out-of-band emissions

| Band  | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|-------|-----------------|------------|---------|-------------|------------|-----------------|------------------|-------------|---------|
| Band7 | 5               | 20775      | 25      | #0          | QPSK       | 5708.58         | -32.46           | -25         | PASS    |
| Band7 | 5               | 20775      | 25      | #0          | 16QAM      | 5790.25         | -32.11           | -25         | PASS    |
| Band7 | 5               | 21100      | 25      | #0          | QPSK       | 5793.40         | -32.61           | -25         | PASS    |
| Band7 | 5               | 21100      | 25      | #0          | 16QAM      | 5667.40         | -32.45           | -25         | PASS    |
| Band7 | 5               | 21425      | 25      | #0          | QPSK       | 5618.13         | -32.20           | -25         | PASS    |
| Band7 | 5               | 21425      | 25      | #0          | 16QAM      | 9284.28         | -32.24           | -25         | PASS    |
| Band7 | 10              | 20800      | 50      | #0          | QPSK       | 5656.38         | -32.48           | -25         | PASS    |
| Band7 | 10              | 21100      | 50      | #0          | QPSK       | 5682.03         | -32.66           | -25         | PASS    |
| Band7 | 10              | 21400      | 50      | #0          | QPSK       | 5683.38         | -32.31           | -25         | PASS    |

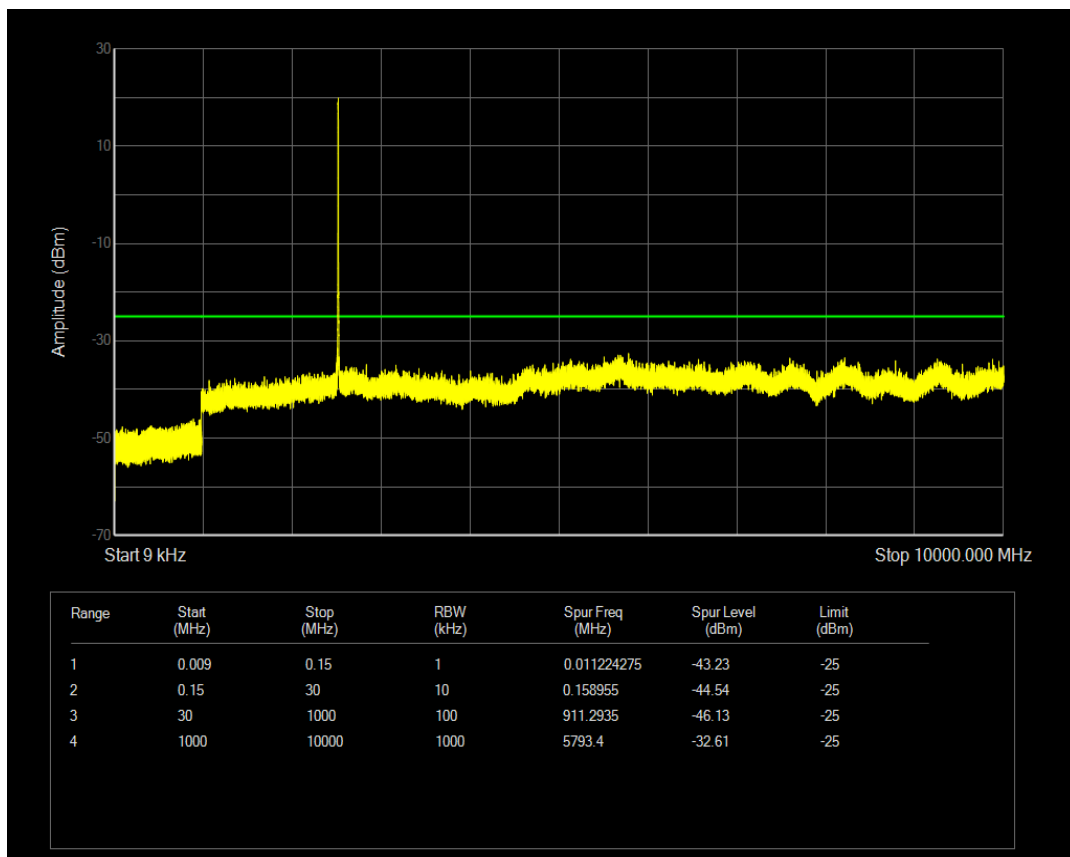
Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0



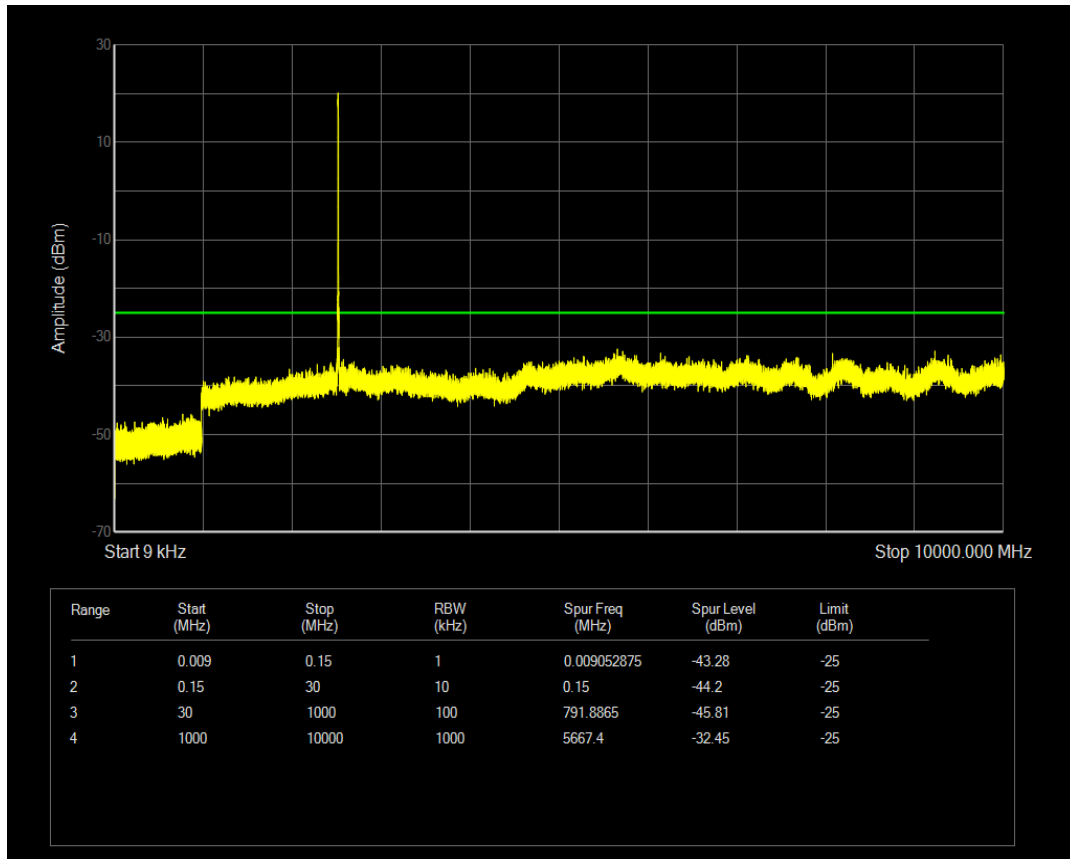
Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0



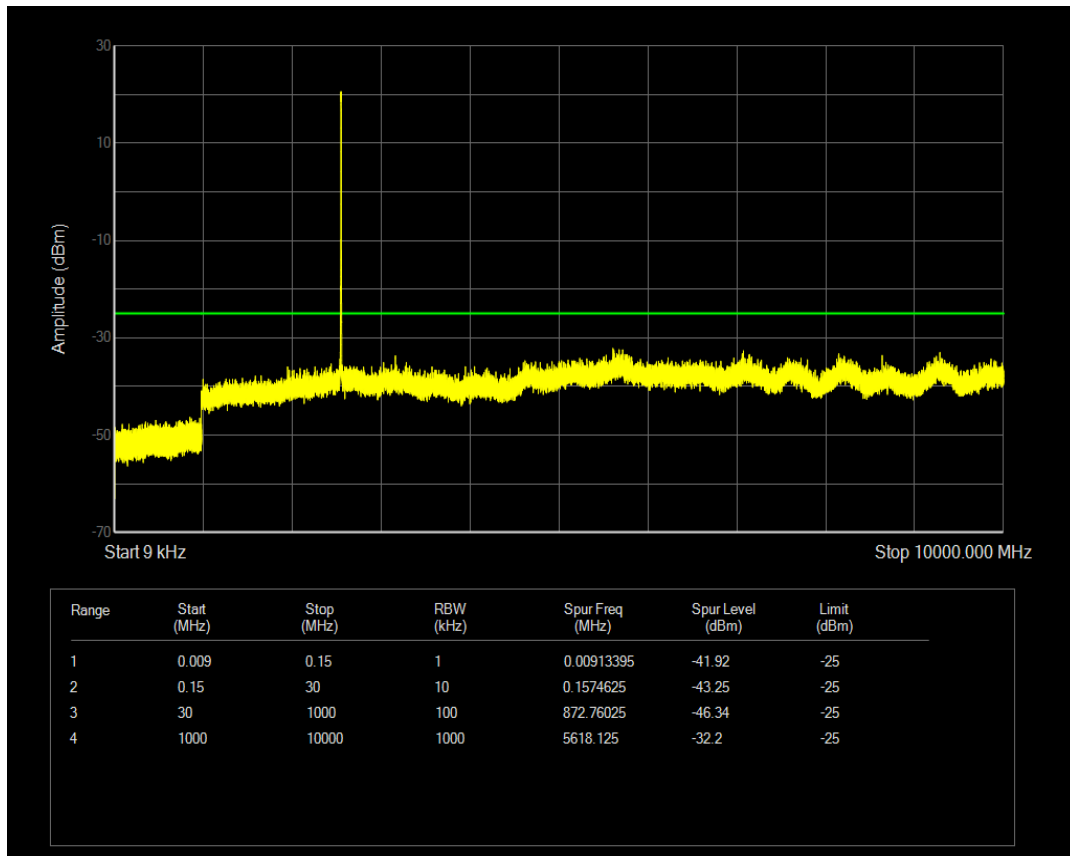
Band7 QPSK BW=5MHz Channel=21100 RB Size=25 Position=#0



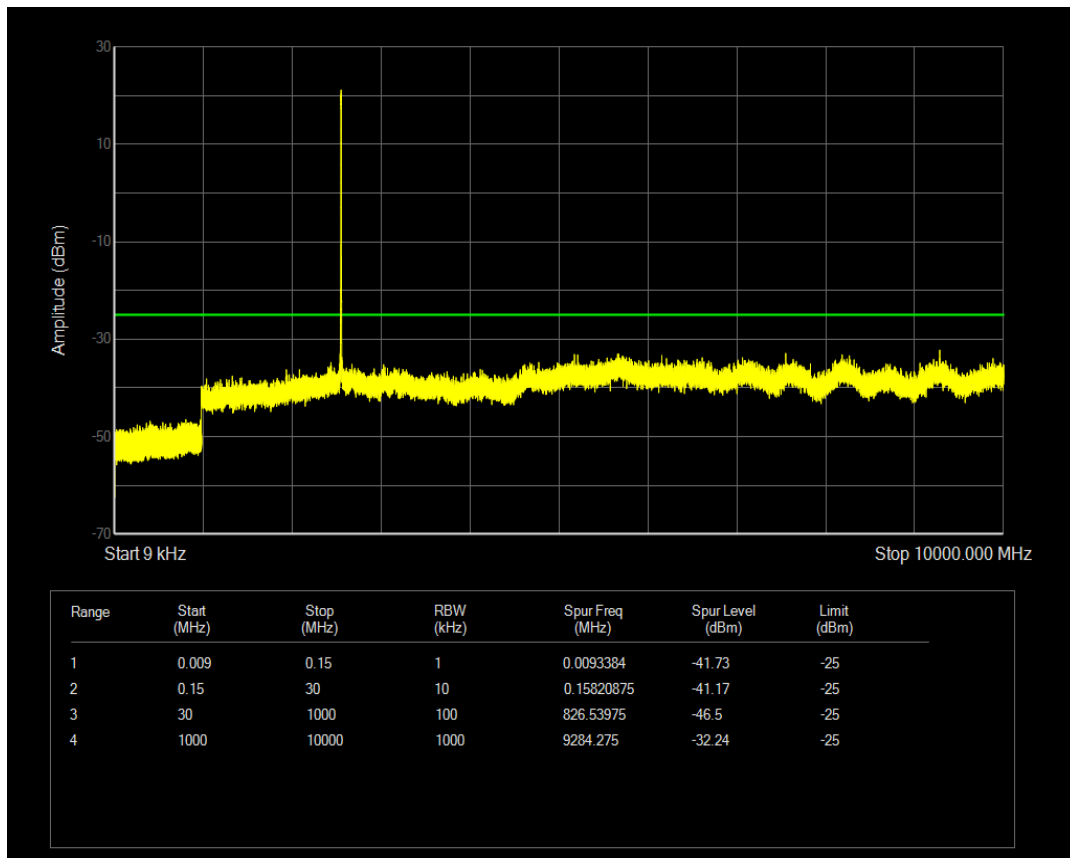
Band7 16QAM BW=5MHz Channel=21100 RB Size=25 Position=#0



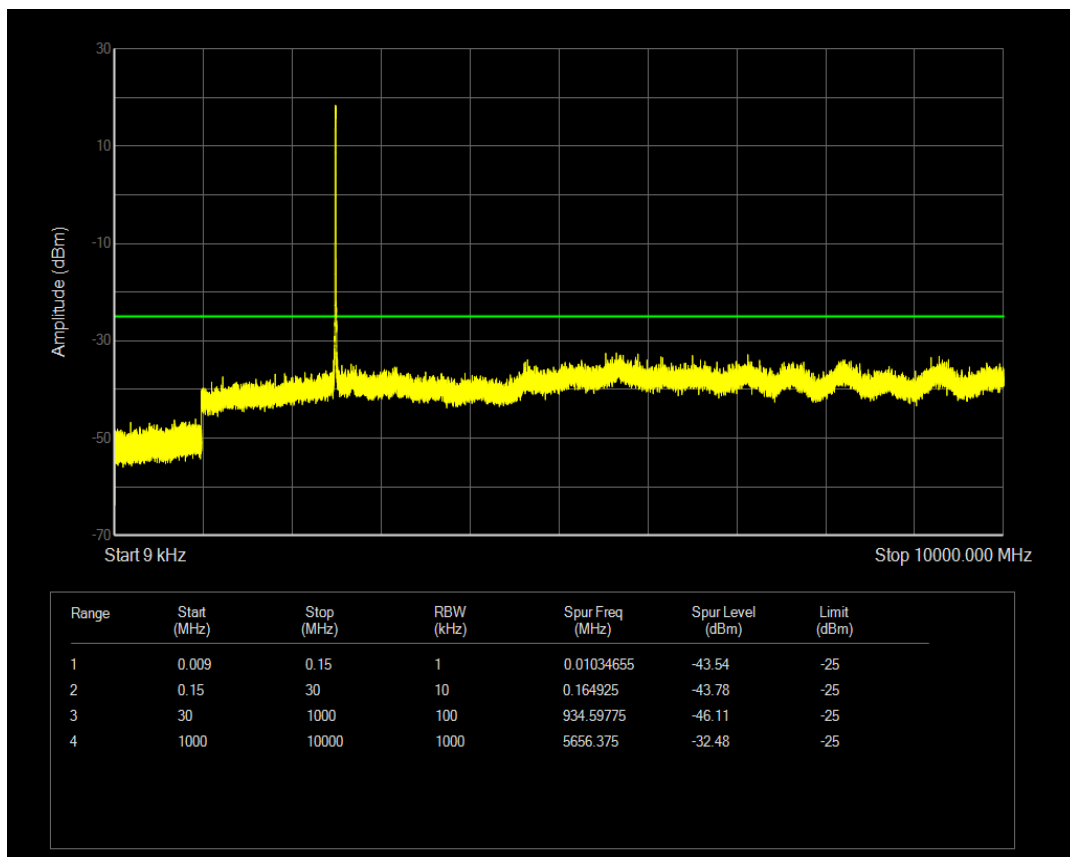
Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0



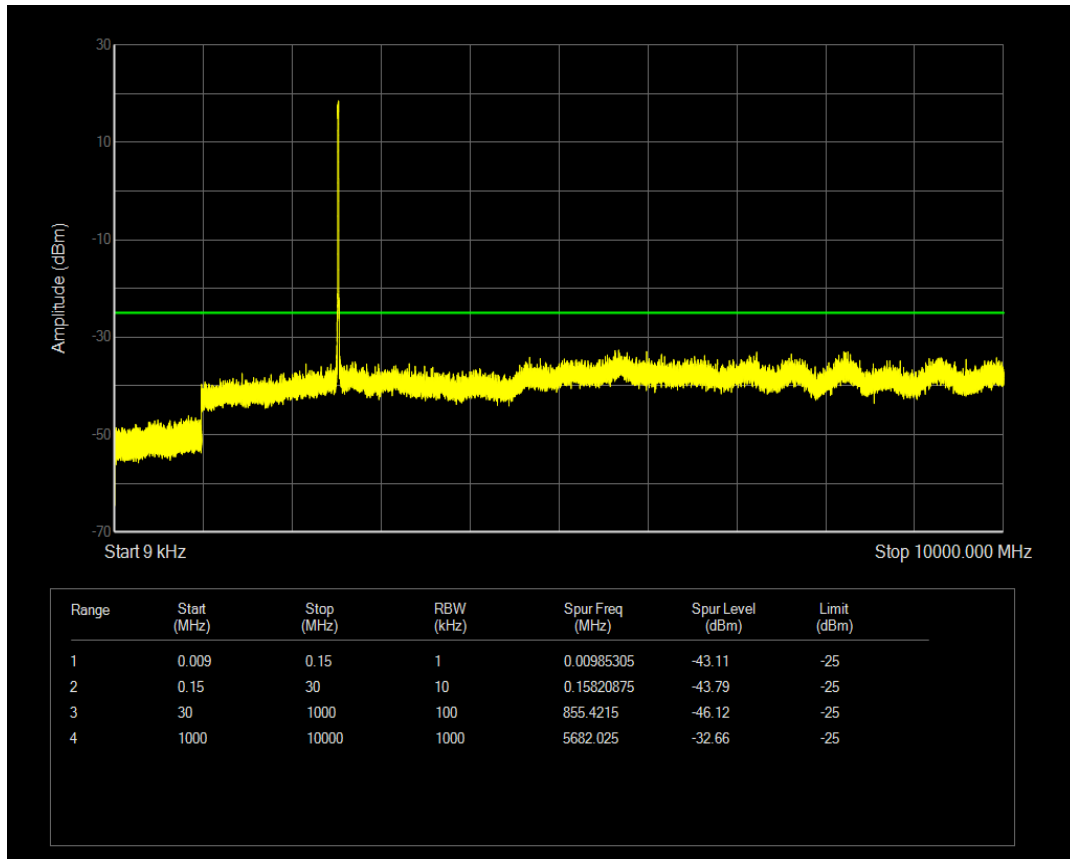
Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0



Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0



Band7 QPSK BW=10MHz Channel=21100 RB Size=50 Position=#0



Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0

