

**Appendix D****1. Effective (Isotropic) Radiated Power Output Data****1.1 30k\_SISO\_20MHz\_NTNV\_EIRP****1.1.1 Test Result**

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 20MHz NTN |                 |                 |                      |      |     |           |      |     |       |         |
|--------------------------------------------------|-----------------|-----------------|----------------------|------|-----|-----------|------|-----|-------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation   | Conducted Power(dBm) |      |     | EIRP(dBm) |      |     |       | Verdict |
|                                                  |                 |                 | Ant1                 | Ant2 | Sum | Ant1      | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                             | 3460.02         | Edge_1RB_Left   | 23.05                | /    | /   | 24.11     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 23.16                | /    | /   | 24.22     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.56                | /    | /   | 24.62     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.47                | /    | /   | 24.53     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.55                | /    | /   | 24.61     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.64                | /    | /   | 24.70     | /    | /   | <=30  | Pass    |
|                                                  | 3500.01         | Edge_1RB_Left   | 23.17                | /    | /   | 24.23     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 23.05                | /    | /   | 24.11     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.53                | /    | /   | 24.59     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.54                | /    | /   | 24.60     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.63                | /    | /   | 24.69     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.58                | /    | /   | 24.64     | /    | /   | <=30  | Pass    |
|                                                  | 3540            | Edge_1RB_Left   | 23.33                | /    | /   | 24.39     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 23.25                | /    | /   | 24.31     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.76                | /    | /   | 24.82     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.74                | /    | /   | 24.80     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.86                | /    | /   | 24.92     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.74                | /    | /   | 24.80     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM QPSK                                  | 3460.02         | Edge_1RB_Left   | 23.02                | /    | /   | 24.08     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 23.12                | /    | /   | 24.18     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.50                | /    | /   | 24.56     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.47                | /    | /   | 24.53     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.53                | /    | /   | 24.59     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.59                | /    | /   | 24.65     | /    | /   | <=30  | Pass    |
|                                                  | 3500.01         | Edge_1RB_Left   | 23.10                | /    | /   | 24.16     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 23.07                | /    | /   | 24.13     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.54                | /    | /   | 24.60     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.51                | /    | /   | 24.57     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.59                | /    | /   | 24.65     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.53                | /    | /   | 24.59     | /    | /   | <=30  | Pass    |
|                                                  | 3540            | Edge_1RB_Left   | 23.30                | /    | /   | 24.36     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 23.25                | /    | /   | 24.31     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.80                | /    | /   | 24.86     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.73                | /    | /   | 24.79     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.75                | /    | /   | 24.81     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.76                | /    | /   | 24.82     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM 16 QAM                                | 3460.02         | Edge_1RB_Left   | 23.14                | /    | /   | 24.20     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 23.23                | /    | /   | 24.29     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.55                | /    | /   | 24.61     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.60                | /    | /   | 24.66     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.69                | /    | /   | 24.75     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.73                | /    | /   | 24.79     | /    | /   | <=30  | Pass    |
|                                                  | 3500.01         | Edge_1RB_Left   | 23.27                | /    | /   | 24.33     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 23.16                | /    | /   | 24.22     | /    | /   | <=30  | Pass    |

|                    |         |                 |       |   |   |       |   |   |      |      |
|--------------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                    |         | Outer Full      | 23.60 | / | / | 24.66 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.60 | / | / | 24.66 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.80 | / | / | 24.86 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.64 | / | / | 24.70 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Left   | 23.32 | / | / | 24.38 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 23.26 | / | / | 24.32 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 23.79 | / | / | 24.85 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.79 | / | / | 24.85 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.78 | / | / | 24.84 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.69 | / | / | 24.75 | / | / | <=30 | Pass |
| DFT-s-OFDM 64 QAM  | 3460.02 | Edge 1RB Left   | 23.04 | / | / | 24.10 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 23.18 | / | / | 24.24 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 23.53 | / | / | 24.59 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.50 | / | / | 24.56 | / | / | <=30 | Pass |
|                    | 3500.01 | Inner 1RB Left  | 23.67 | / | / | 24.73 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.74 | / | / | 24.80 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Left   | 23.12 | / | / | 24.18 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 23.12 | / | / | 24.18 | / | / | <=30 | Pass |
|                    | 3540    | Outer Full      | 23.54 | / | / | 24.60 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.48 | / | / | 24.54 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.72 | / | / | 24.78 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.68 | / | / | 24.74 | / | / | <=30 | Pass |
|                    | 3540    | Edge 1RB Left   | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 23.22 | / | / | 24.28 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 23.82 | / | / | 24.88 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.75 | / | / | 24.81 | / | / | <=30 | Pass |
| DFT-s-OFDM 256 QAM | 3460.02 | Inner 1RB Left  | 23.90 | / | / | 24.96 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.79 | / | / | 24.85 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Left   | 21.94 | / | / | 23.00 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 22.12 | / | / | 23.18 | / | / | <=30 | Pass |
|                    | 3500.01 | Outer Full      | 22.00 | / | / | 23.06 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 21.95 | / | / | 23.01 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 21.96 | / | / | 23.02 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 22.09 | / | / | 23.15 | / | / | <=30 | Pass |
|                    | 3540    | Edge 1RB Left   | 22.08 | / | / | 23.14 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 22.06 | / | / | 23.12 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 22.11 | / | / | 23.17 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 21.98 | / | / | 23.04 | / | / | <=30 | Pass |
| CP-OFDM QPSK       | 3460.02 | Inner 1RB Left  | 22.09 | / | / | 23.15 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 22.00 | / | / | 23.06 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Left   | 22.23 | / | / | 23.29 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 22.19 | / | / | 23.25 | / | / | <=30 | Pass |
|                    | 3500.01 | Outer Full      | 22.34 | / | / | 23.40 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 22.26 | / | / | 23.32 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 22.28 | / | / | 23.34 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 22.21 | / | / | 23.27 | / | / | <=30 | Pass |
|                    | 3540    | Edge 1RB Left   | 23.06 | / | / | 24.12 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 23.20 | / | / | 24.26 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 23.52 | / | / | 24.58 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.46 | / | / | 24.52 | / | / | <=30 | Pass |
|                    | 3500.01 | Inner 1RB Left  | 23.52 | / | / | 24.58 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.70 | / | / | 24.76 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Left   | 23.16 | / | / | 24.22 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 23.18 | / | / | 24.24 | / | / | <=30 | Pass |
|                    | 3540    | Outer Full      | 23.55 | / | / | 24.61 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.55 | / | / | 24.61 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.79 | / | / | 24.85 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.73 | / | / | 24.79 | / | / | <=30 | Pass |



|                 |         |                 |       |   |   |       |   |   |      |      |
|-----------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                 | 3540    | Edge_1RB_Left   | 23.35 | / | / | 24.41 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 23.34 | / | / | 24.40 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.80 | / | / | 24.86 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.78 | / | / | 24.84 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.81 | / | / | 24.87 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.83 | / | / | 24.89 | / | / | <=30 | Pass |
| CP-OFDM 16 QAM  | 3460.02 | Edge_1RB_Left   | 23.13 | / | / | 24.19 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 23.28 | / | / | 24.34 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.55 | / | / | 24.61 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.62 | / | / | 24.68 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.66 | / | / | 24.72 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.75 | / | / | 24.81 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge_1RB_Left   | 23.22 | / | / | 24.28 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 23.04 | / | / | 24.10 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.57 | / | / | 24.63 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.57 | / | / | 24.63 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.65 | / | / | 24.71 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.56 | / | / | 24.62 | / | / | <=30 | Pass |
|                 | 3540    | Edge_1RB_Left   | 23.34 | / | / | 24.40 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 23.28 | / | / | 24.34 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.83 | / | / | 24.89 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.87 | / | / | 24.93 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.82 | / | / | 24.88 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.76 | / | / | 24.82 | / | / | <=30 | Pass |
| CP-OFDM 64 QAM  | 3460.02 | Edge_1RB_Left   | 23.15 | / | / | 24.21 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 23.28 | / | / | 24.34 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.03 | / | / | 24.09 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.02 | / | / | 24.08 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.17 | / | / | 24.23 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.27 | / | / | 24.33 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge_1RB_Left   | 23.21 | / | / | 24.27 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 23.22 | / | / | 24.28 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.07 | / | / | 24.13 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.06 | / | / | 24.12 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.26 | / | / | 24.32 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.19 | / | / | 24.25 | / | / | <=30 | Pass |
|                 | 3540    | Edge_1RB_Left   | 23.35 | / | / | 24.41 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 23.37 | / | / | 24.43 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.24 | / | / | 24.30 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.28 | / | / | 24.34 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.39 | / | / | 24.45 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.32 | / | / | 24.38 | / | / | <=30 | Pass |
| CP-OFDM 256 QAM | 3460.02 | Edge_1RB_Left   | 20.02 | / | / | 21.08 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 20.29 | / | / | 21.35 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 19.99 | / | / | 21.05 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 20.00 | / | / | 21.06 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 19.95 | / | / | 21.01 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 20.07 | / | / | 21.13 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge_1RB_Left   | 20.21 | / | / | 21.27 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 20.13 | / | / | 21.19 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 20.03 | / | / | 21.09 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 20.06 | / | / | 21.12 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 20.05 | / | / | 21.11 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 20.02 | / | / | 21.08 | / | / | <=30 | Pass |
|                 | 3540    | Edge_1RB_Left   | 20.32 | / | / | 21.38 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 20.31 | / | / | 21.37 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 20.25 | / | / | 21.31 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 20.22 | / | / | 21.28 | / | / | <=30 | Pass |

|                                                                                 |  |                 |       |   |   |       |   |   |      |      |
|---------------------------------------------------------------------------------|--|-----------------|-------|---|---|-------|---|---|------|------|
|                                                                                 |  | Inner 1RB Left  | 20.42 | / | / | 21.48 | / | / | <=30 | Pass |
|                                                                                 |  | Inner 1RB Right | 20.30 | / | / | 21.36 | / | / | <=30 | Pass |
| Note1: Antenna Gain: Ant1: 1.06dBi;<br>Note2: EIRP=Conducted Power+Antenna Gain |  |                 |       |   |   |       |   |   |      |      |

## 1.2 30k\_SISO\_30MHz\_NTNV\_EIRP

### 1.2.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 30MHz NTN |                 |                 |                      |      |     |           |      |     |       |         |
|--------------------------------------------------|-----------------|-----------------|----------------------|------|-----|-----------|------|-----|-------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation   | Conducted Power(dBm) |      |     | EIRP(dBm) |      |     |       | Verdict |
|                                                  |                 |                 | Ant1                 | Ant2 | Sum | Ant1      | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                             | 3465            | Edge 1RB Left   | 23.19                | /    | /   | 24.25     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 23.45                | /    | /   | 24.51     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 23.81                | /    | /   | 24.87     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 23.72                | /    | /   | 24.78     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.69                | /    | /   | 24.75     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.95                | /    | /   | 25.01     | /    | /   | <=30  | Pass    |
|                                                  | 3500.01         | Edge 1RB Left   | 23.50                | /    | /   | 24.56     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 23.45                | /    | /   | 24.51     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 23.89                | /    | /   | 24.95     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 23.82                | /    | /   | 24.88     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 24.04                | /    | /   | 25.10     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.91                | /    | /   | 24.97     | /    | /   | <=30  | Pass    |
|                                                  | 3534.99         | Edge 1RB Left   | 23.61                | /    | /   | 24.67     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 23.57                | /    | /   | 24.63     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 24.13                | /    | /   | 25.19     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 24.14                | /    | /   | 25.20     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 24.03                | /    | /   | 25.09     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 24.06                | /    | /   | 25.12     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM QPSK                                  | 3465            | Edge 1RB Left   | 23.17                | /    | /   | 24.23     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 23.42                | /    | /   | 24.48     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 23.77                | /    | /   | 24.83     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 23.77                | /    | /   | 24.83     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.77                | /    | /   | 24.83     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.96                | /    | /   | 25.02     | /    | /   | <=30  | Pass    |
|                                                  | 3500.01         | Edge 1RB Left   | 23.45                | /    | /   | 24.51     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 23.44                | /    | /   | 24.50     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 23.92                | /    | /   | 24.98     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 23.88                | /    | /   | 24.94     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.94                | /    | /   | 25.00     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.94                | /    | /   | 25.00     | /    | /   | <=30  | Pass    |
|                                                  | 3534.99         | Edge 1RB Left   | 23.61                | /    | /   | 24.67     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 23.50                | /    | /   | 24.56     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 24.12                | /    | /   | 25.18     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 24.09                | /    | /   | 25.15     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 24.05                | /    | /   | 25.11     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 24.07                | /    | /   | 25.13     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM 16 QAM                                | 3465            | Edge 1RB Left   | 23.31                | /    | /   | 24.37     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 23.50                | /    | /   | 24.56     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 23.76                | /    | /   | 24.82     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 23.74                | /    | /   | 24.80     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.72                | /    | /   | 24.78     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.90                | /    | /   | 24.96     | /    | /   | <=30  | Pass    |
|                                                  | 3500.01         | Edge 1RB Left   | 23.62                | /    | /   | 24.68     | /    | /   | <=30  | Pass    |

|                    |         |                 |       |   |   |       |   |   |      |      |
|--------------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
| DFT-s-OFDM 64 QAM  |         | Edge_1RB_Right  | 23.45 | / | / | 24.51 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.88 | / | / | 24.94 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.85 | / | / | 24.91 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 24.14 | / | / | 25.20 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.96 | / | / | 25.02 | / | / | <=30 | Pass |
|                    | 3534.99 | Edge_1RB_Left   | 23.70 | / | / | 24.76 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 23.66 | / | / | 24.72 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 24.15 | / | / | 25.21 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 24.11 | / | / | 25.17 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 24.19 | / | / | 25.25 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 24.15 | / | / | 25.21 | / | / | <=30 | Pass |
|                    | 3465    | Edge_1RB_Left   | 23.31 | / | / | 24.37 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 23.58 | / | / | 24.64 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.77 | / | / | 24.83 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.74 | / | / | 24.80 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.80 | / | / | 24.86 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 24.00 | / | / | 25.06 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge_1RB_Left   | 23.59 | / | / | 24.65 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 23.51 | / | / | 24.57 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.94 | / | / | 25.00 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.88 | / | / | 24.94 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 24.14 | / | / | 25.20 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 24.09 | / | / | 25.15 | / | / | <=30 | Pass |
|                    | 3534.99 | Edge_1RB_Left   | 23.63 | / | / | 24.69 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 23.68 | / | / | 24.74 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 24.09 | / | / | 25.15 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 24.15 | / | / | 25.21 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 24.20 | / | / | 25.26 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 24.21 | / | / | 25.27 | / | / | <=30 | Pass |
| DFT-s-OFDM 256 QAM | 3465    | Edge_1RB_Left   | 22.15 | / | / | 23.21 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.43 | / | / | 23.49 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 22.24 | / | / | 23.30 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 22.21 | / | / | 23.27 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 22.20 | / | / | 23.26 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 22.48 | / | / | 23.54 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge_1RB_Left   | 22.43 | / | / | 23.49 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.37 | / | / | 23.43 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 22.35 | / | / | 23.41 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 22.38 | / | / | 23.44 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 22.43 | / | / | 23.49 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 22.37 | / | / | 23.43 | / | / | <=30 | Pass |
|                    | 3534.99 | Edge_1RB_Left   | 22.61 | / | / | 23.67 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.48 | / | / | 23.54 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 22.66 | / | / | 23.72 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 22.70 | / | / | 23.76 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 22.58 | / | / | 23.64 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 22.58 | / | / | 23.64 | / | / | <=30 | Pass |
| CP-OFDM QPSK       | 3465    | Edge_1RB_Left   | 23.28 | / | / | 24.34 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 23.47 | / | / | 24.53 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.86 | / | / | 24.92 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.76 | / | / | 24.82 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.85 | / | / | 24.91 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 24.03 | / | / | 25.09 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge_1RB_Left   | 23.55 | / | / | 24.61 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 23.52 | / | / | 24.58 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.90 | / | / | 24.96 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.84 | / | / | 24.90 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 24.02 | / | / | 25.08 | / | / | <=30 | Pass |

|                 |         |                 |       |   |   |       |   |   |      |      |
|-----------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                 | 3534.99 | Inner 1RB Right | 24.04 | / | / | 25.10 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Left   | 23.62 | / | / | 24.68 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 23.62 | / | / | 24.68 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 24.11 | / | / | 25.17 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 24.12 | / | / | 25.18 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 24.18 | / | / | 25.24 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 24.10 | / | / | 25.16 | / | / | <=30 | Pass |
| CP-OFDM 16 QAM  | 3465    | Edge 1RB Left   | 23.26 | / | / | 24.32 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 23.54 | / | / | 24.60 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.81 | / | / | 24.87 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.77 | / | / | 24.83 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 23.77 | / | / | 24.83 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 24.07 | / | / | 25.13 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge 1RB Left   | 23.51 | / | / | 24.57 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 23.46 | / | / | 24.52 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.93 | / | / | 24.99 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.91 | / | / | 24.97 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 24.04 | / | / | 25.10 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 23.85 | / | / | 24.91 | / | / | <=30 | Pass |
|                 | 3534.99 | Edge 1RB Left   | 23.51 | / | / | 24.57 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 23.57 | / | / | 24.63 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 24.08 | / | / | 25.14 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 24.22 | / | / | 25.28 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 24.20 | / | / | 25.26 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 24.07 | / | / | 25.13 | / | / | <=30 | Pass |
| CP-OFDM 64 QAM  | 3465    | Edge 1RB Left   | 23.43 | / | / | 24.49 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 23.61 | / | / | 24.67 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.26 | / | / | 24.32 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.27 | / | / | 24.33 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 23.43 | / | / | 24.49 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 23.66 | / | / | 24.72 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge 1RB Left   | 23.72 | / | / | 24.78 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 23.59 | / | / | 24.65 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.41 | / | / | 24.47 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.32 | / | / | 24.38 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 23.76 | / | / | 24.82 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 23.57 | / | / | 24.63 | / | / | <=30 | Pass |
|                 | 3534.99 | Edge 1RB Left   | 23.82 | / | / | 24.88 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 23.80 | / | / | 24.86 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.62 | / | / | 24.68 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.75 | / | / | 24.81 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 23.74 | / | / | 24.80 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 23.78 | / | / | 24.84 | / | / | <=30 | Pass |
| CP-OFDM 256 QAM | 3465    | Edge 1RB Left   | 20.16 | / | / | 21.22 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 20.46 | / | / | 21.52 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 20.28 | / | / | 21.34 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 20.20 | / | / | 21.26 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 20.30 | / | / | 21.36 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 20.50 | / | / | 21.56 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge 1RB Left   | 20.68 | / | / | 21.74 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 20.48 | / | / | 21.54 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 20.35 | / | / | 21.41 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 20.31 | / | / | 21.37 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 20.45 | / | / | 21.51 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 20.31 | / | / | 21.37 | / | / | <=30 | Pass |
|                 | 3534.99 | Edge 1RB Left   | 20.55 | / | / | 21.61 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 20.61 | / | / | 21.67 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 20.65 | / | / | 21.71 | / | / | <=30 | Pass |

|                                                                                 |  |                 |       |   |   |       |   |   |      |      |
|---------------------------------------------------------------------------------|--|-----------------|-------|---|---|-------|---|---|------|------|
|                                                                                 |  | Inner_Full      | 20.58 | / | / | 21.64 | / | / | <=30 | Pass |
|                                                                                 |  | Inner_1RB_Left  | 20.59 | / | / | 21.65 | / | / | <=30 | Pass |
|                                                                                 |  | Inner_1RB_Right | 20.49 | / | / | 21.55 | / | / | <=30 | Pass |
| Note1: Antenna Gain: Ant1: 1.06dBi;<br>Note2: EIRP=Conducted Power+Antenna Gain |  |                 |       |   |   |       |   |   |      |      |

## 1.3 30k\_SISO\_40MHz\_NTNV\_EIRP

### 1.3.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 40MHz NTN |                 |                 |                      |      |     |           |      |     |       |         |
|--------------------------------------------------|-----------------|-----------------|----------------------|------|-----|-----------|------|-----|-------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation   | Conducted Power(dBm) |      |     | EIRP(dBm) |      |     |       | Verdict |
|                                                  |                 |                 | Ant1                 | Ant2 | Sum | Ant1      | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                             | 3470.01         | Edge_1RB_Left   | 23.42                | /    | /   | 24.48     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 23.55                | /    | /   | 24.61     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.96                | /    | /   | 25.02     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.99                | /    | /   | 25.05     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.91                | /    | /   | 24.97     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 24.03                | /    | /   | 25.09     | /    | /   | <=30  | Pass    |
|                                                  | 3500.01         | Edge_1RB_Left   | 23.61                | /    | /   | 24.67     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 23.57                | /    | /   | 24.63     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.96                | /    | /   | 25.02     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.84                | /    | /   | 24.90     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 24.12                | /    | /   | 25.18     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 24.07                | /    | /   | 25.13     | /    | /   | <=30  | Pass    |
|                                                  | 3529.98         | Edge_1RB_Left   | 23.46                | /    | /   | 24.52     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 23.51                | /    | /   | 24.57     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 24.15                | /    | /   | 25.21     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 24.09                | /    | /   | 25.15     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 24.00                | /    | /   | 25.06     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 24.06                | /    | /   | 25.12     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM QPSK                                  | 3470.01         | Edge_1RB_Left   | 23.33                | /    | /   | 24.39     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 23.49                | /    | /   | 24.55     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.94                | /    | /   | 25.00     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.93                | /    | /   | 24.99     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.83                | /    | /   | 24.89     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 24.09                | /    | /   | 25.15     | /    | /   | <=30  | Pass    |
|                                                  | 3500.01         | Edge_1RB_Left   | 23.66                | /    | /   | 24.72     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 23.53                | /    | /   | 24.59     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 24.00                | /    | /   | 25.06     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.94                | /    | /   | 25.00     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 24.11                | /    | /   | 25.17     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.97                | /    | /   | 25.03     | /    | /   | <=30  | Pass    |
|                                                  | 3529.98         | Edge_1RB_Left   | 23.44                | /    | /   | 24.50     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 23.55                | /    | /   | 24.61     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 24.15                | /    | /   | 25.21     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 24.13                | /    | /   | 25.19     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 24.00                | /    | /   | 25.06     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 24.01                | /    | /   | 25.07     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM 16 QAM                                | 3470.01         | Edge_1RB_Left   | 23.42                | /    | /   | 24.48     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 23.52                | /    | /   | 24.58     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.93                | /    | /   | 24.99     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.92                | /    | /   | 24.98     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 24.01                | /    | /   | 25.07     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 24.06                | /    | /   | 25.12     | /    | /   | <=30  | Pass    |



|                    |         |                 |       |   |   |       |   |   |      |      |
|--------------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                    | 3500.01 | Edge_1RB_Left   | 23.71 | / | / | 24.77 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 23.55 | / | / | 24.61 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 24.02 | / | / | 25.08 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.89 | / | / | 24.95 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 24.20 | / | / | 25.26 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 24.01 | / | / | 25.07 | / | / | <=30 | Pass |
|                    | 3529.98 | Edge_1RB_Left   | 23.61 | / | / | 24.67 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 23.60 | / | / | 24.66 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 24.02 | / | / | 25.08 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 24.17 | / | / | 25.23 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 24.05 | / | / | 25.11 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 24.09 | / | / | 25.15 | / | / | <=30 | Pass |
| DFT-s-OFDM 64 QAM  | 3470.01 | Edge_1RB_Left   | 23.45 | / | / | 24.51 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 23.56 | / | / | 24.62 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.98 | / | / | 25.04 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.91 | / | / | 24.97 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.87 | / | / | 24.93 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.95 | / | / | 25.01 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge_1RB_Left   | 23.70 | / | / | 24.76 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 23.53 | / | / | 24.59 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 24.01 | / | / | 25.07 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.91 | / | / | 24.97 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 24.23 | / | / | 25.29 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 24.13 | / | / | 25.19 | / | / | <=30 | Pass |
|                    | 3529.98 | Edge_1RB_Left   | 23.51 | / | / | 24.57 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 23.56 | / | / | 24.62 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 24.07 | / | / | 25.13 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 24.13 | / | / | 25.19 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 24.01 | / | / | 25.07 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 24.01 | / | / | 25.07 | / | / | <=30 | Pass |
| DFT-s-OFDM 256 QAM | 3470.01 | Edge_1RB_Left   | 22.35 | / | / | 23.41 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.48 | / | / | 23.54 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 22.47 | / | / | 23.53 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 22.48 | / | / | 23.54 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 22.30 | / | / | 23.36 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 22.32 | / | / | 23.38 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge_1RB_Left   | 22.62 | / | / | 23.68 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.45 | / | / | 23.51 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 22.47 | / | / | 23.53 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 22.44 | / | / | 23.50 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 22.61 | / | / | 23.67 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 22.52 | / | / | 23.58 | / | / | <=30 | Pass |
|                    | 3529.98 | Edge_1RB_Left   | 22.49 | / | / | 23.55 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.51 | / | / | 23.57 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 22.59 | / | / | 23.65 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 22.63 | / | / | 23.69 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 22.51 | / | / | 23.57 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 22.48 | / | / | 23.54 | / | / | <=30 | Pass |
| CP-OFDM QPSK       | 3470.01 | Edge_1RB_Left   | 23.40 | / | / | 24.46 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 23.51 | / | / | 24.57 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 24.00 | / | / | 25.06 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.92 | / | / | 24.98 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.85 | / | / | 24.91 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 24.01 | / | / | 25.07 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge_1RB_Left   | 23.65 | / | / | 24.71 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 23.60 | / | / | 24.66 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 24.00 | / | / | 25.06 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.89 | / | / | 24.95 | / | / | <=30 | Pass |

|                 |         |                 |       |   |   |       |   |   |      |      |
|-----------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                 | 3529.98 | Inner 1RB Left  | 24.32 | / | / | 25.38 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 24.07 | / | / | 25.13 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Left   | 23.50 | / | / | 24.56 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 23.58 | / | / | 24.64 | / | / | <=30 | Pass |
|                 |         | Outer Full      | 24.09 | / | / | 25.15 | / | / | <=30 | Pass |
|                 |         | Inner Full      | 24.08 | / | / | 25.14 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 24.14 | / | / | 25.20 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 24.03 | / | / | 25.09 | / | / | <=30 | Pass |
| CP-OFDM 16 QAM  | 3470.01 | Edge 1RB Left   | 23.44 | / | / | 24.50 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 23.56 | / | / | 24.62 | / | / | <=30 | Pass |
|                 |         | Outer Full      | 23.94 | / | / | 25.00 | / | / | <=30 | Pass |
|                 |         | Inner Full      | 23.90 | / | / | 24.96 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 23.94 | / | / | 25.00 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 24.08 | / | / | 25.14 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge 1RB Left   | 23.71 | / | / | 24.77 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 23.54 | / | / | 24.60 | / | / | <=30 | Pass |
|                 |         | Outer Full      | 23.95 | / | / | 25.01 | / | / | <=30 | Pass |
|                 |         | Inner Full      | 23.90 | / | / | 24.96 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 24.22 | / | / | 25.28 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 24.07 | / | / | 25.13 | / | / | <=30 | Pass |
|                 | 3529.98 | Edge 1RB Left   | 23.55 | / | / | 24.61 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 23.55 | / | / | 24.61 | / | / | <=30 | Pass |
|                 |         | Outer Full      | 24.14 | / | / | 25.20 | / | / | <=30 | Pass |
|                 |         | Inner Full      | 24.11 | / | / | 25.17 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 24.13 | / | / | 25.19 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 24.09 | / | / | 25.15 | / | / | <=30 | Pass |
| CP-OFDM 64 QAM  | 3470.01 | Edge 1RB Left   | 23.43 | / | / | 24.49 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 23.54 | / | / | 24.60 | / | / | <=30 | Pass |
|                 |         | Outer Full      | 23.43 | / | / | 24.49 | / | / | <=30 | Pass |
|                 |         | Inner Full      | 23.40 | / | / | 24.46 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 23.46 | / | / | 24.52 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 23.57 | / | / | 24.63 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge 1RB Left   | 23.80 | / | / | 24.86 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 23.63 | / | / | 24.69 | / | / | <=30 | Pass |
|                 |         | Outer Full      | 23.47 | / | / | 24.53 | / | / | <=30 | Pass |
|                 |         | Inner Full      | 23.45 | / | / | 24.51 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 23.82 | / | / | 24.88 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 23.65 | / | / | 24.71 | / | / | <=30 | Pass |
|                 | 3529.98 | Edge 1RB Left   | 23.70 | / | / | 24.76 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 23.62 | / | / | 24.68 | / | / | <=30 | Pass |
|                 |         | Outer Full      | 23.49 | / | / | 24.55 | / | / | <=30 | Pass |
|                 |         | Inner Full      | 23.53 | / | / | 24.59 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 23.61 | / | / | 24.67 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 23.62 | / | / | 24.68 | / | / | <=30 | Pass |
| CP-OFDM 256 QAM | 3470.01 | Edge 1RB Left   | 20.35 | / | / | 21.41 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 20.48 | / | / | 21.54 | / | / | <=30 | Pass |
|                 |         | Outer Full      | 20.46 | / | / | 21.52 | / | / | <=30 | Pass |
|                 |         | Inner Full      | 20.43 | / | / | 21.49 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 20.36 | / | / | 21.42 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 20.51 | / | / | 21.57 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge 1RB Left   | 20.64 | / | / | 21.70 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 20.57 | / | / | 21.63 | / | / | <=30 | Pass |
|                 |         | Outer Full      | 20.48 | / | / | 21.54 | / | / | <=30 | Pass |
|                 |         | Inner Full      | 20.45 | / | / | 21.51 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 20.68 | / | / | 21.74 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 20.58 | / | / | 21.64 | / | / | <=30 | Pass |
|                 | 3529.98 | Edge 1RB Left   | 20.48 | / | / | 21.54 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 20.50 | / | / | 21.56 | / | / | <=30 | Pass |



|                                                                                 |  |                 |       |   |   |       |   |   |      |      |
|---------------------------------------------------------------------------------|--|-----------------|-------|---|---|-------|---|---|------|------|
|                                                                                 |  | Outer Full      | 20.62 | / | / | 21.68 | / | / | <=30 | Pass |
|                                                                                 |  | Inner Full      | 20.66 | / | / | 21.72 | / | / | <=30 | Pass |
|                                                                                 |  | Inner 1RB Left  | 20.54 | / | / | 21.60 | / | / | <=30 | Pass |
|                                                                                 |  | Inner 1RB Right | 20.61 | / | / | 21.67 | / | / | <=30 | Pass |
| Note1: Antenna Gain: Ant1: 1.06dBi;<br>Note2: EIRP=Conducted Power+Antenna Gain |  |                 |       |   |   |       |   |   |      |      |

## 1.4 30k\_SISO\_50MHz\_NTNV\_EIRP

### 1.4.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 50MHz NTN |                 |                 |                      |      |     |           |      |     |       |         |
|--------------------------------------------------|-----------------|-----------------|----------------------|------|-----|-----------|------|-----|-------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation   | Conducted Power(dBm) |      |     | EIRP(dBm) |      |     |       | Verdict |
|                                                  |                 |                 | Ant1                 | Ant2 | Sum | Ant1      | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                             | 3475.02         | Edge 1RB Left   | 22.92                | /    | /   | 23.98     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 22.93                | /    | /   | 23.99     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 23.51                | /    | /   | 24.57     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 23.61                | /    | /   | 24.67     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.47                | /    | /   | 24.53     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.45                | /    | /   | 24.51     | /    | /   | <=30  | Pass    |
|                                                  | 3500.01         | Edge 1RB Left   | 23.24                | /    | /   | 24.30     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 23.08                | /    | /   | 24.14     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 23.63                | /    | /   | 24.69     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 23.59                | /    | /   | 24.65     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.71                | /    | /   | 24.77     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.73                | /    | /   | 24.79     | /    | /   | <=30  | Pass    |
|                                                  | 3525            | Edge 1RB Left   | 22.96                | /    | /   | 24.02     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 23.06                | /    | /   | 24.12     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 23.57                | /    | /   | 24.63     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 23.62                | /    | /   | 24.68     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.38                | /    | /   | 24.44     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.49                | /    | /   | 24.55     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM QPSK                                  | 3475.02         | Edge 1RB Left   | 22.98                | /    | /   | 24.04     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 23.00                | /    | /   | 24.06     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 23.55                | /    | /   | 24.61     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 23.57                | /    | /   | 24.63     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.39                | /    | /   | 24.45     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.40                | /    | /   | 24.46     | /    | /   | <=30  | Pass    |
|                                                  | 3500.01         | Edge 1RB Left   | 23.23                | /    | /   | 24.29     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 23.06                | /    | /   | 24.12     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 23.61                | /    | /   | 24.67     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 23.56                | /    | /   | 24.62     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.73                | /    | /   | 24.79     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.55                | /    | /   | 24.61     | /    | /   | <=30  | Pass    |
|                                                  | 3525            | Edge 1RB Left   | 22.93                | /    | /   | 23.99     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 22.98                | /    | /   | 24.04     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 23.54                | /    | /   | 24.60     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 23.59                | /    | /   | 24.65     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.43                | /    | /   | 24.49     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.50                | /    | /   | 24.56     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM 16 QAM                                | 3475.02         | Edge 1RB Left   | 22.90                | /    | /   | 23.96     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 22.88                | /    | /   | 23.94     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 23.55                | /    | /   | 24.61     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 23.58                | /    | /   | 24.64     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.46                | /    | /   | 24.52     | /    | /   | <=30  | Pass    |

|                    |         |                 |       |   |   |       |   |   |      |      |
|--------------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                    |         | Inner 1RB Right | 23.46 | / | / | 24.52 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Left   | 23.34 | / | / | 24.40 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 23.23 | / | / | 24.29 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.59 | / | / | 24.65 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.57 | / | / | 24.63 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.82 | / | / | 24.88 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.72 | / | / | 24.78 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Left   | 22.90 | / | / | 23.96 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 22.97 | / | / | 24.03 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.51 | / | / | 24.57 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.48 | / | / | 24.54 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.49 | / | / | 24.55 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.54 | / | / | 24.60 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Left   | 22.83 | / | / | 23.89 | / | / | <=30 | Pass |
| DFT-s-OFDM 64 QAM  | 3475.02 | Edge 1RB Right  | 22.79 | / | / | 23.85 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.50 | / | / | 24.56 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.60 | / | / | 24.66 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.52 | / | / | 24.58 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.52 | / | / | 24.58 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Left   | 23.08 | / | / | 24.14 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge 1RB Right  | 22.92 | / | / | 23.98 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.61 | / | / | 24.67 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.59 | / | / | 24.65 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.76 | / | / | 24.82 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.63 | / | / | 24.69 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Left   | 22.83 | / | / | 23.89 | / | / | <=30 | Pass |
|                    | 3525    | Edge 1RB Right  | 22.82 | / | / | 23.88 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.49 | / | / | 24.55 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.57 | / | / | 24.63 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.53 | / | / | 24.59 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.61 | / | / | 24.67 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Left   | 21.88 | / | / | 22.94 | / | / | <=30 | Pass |
| DFT-s-OFDM 256 QAM | 3475.02 | Edge 1RB Right  | 21.87 | / | / | 22.93 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 22.07 | / | / | 23.13 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 22.07 | / | / | 23.13 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 21.91 | / | / | 22.97 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 21.93 | / | / | 22.99 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Left   | 22.12 | / | / | 23.18 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge 1RB Right  | 22.00 | / | / | 23.06 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 22.11 | / | / | 23.17 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 22.04 | / | / | 23.10 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 22.14 | / | / | 23.20 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 22.00 | / | / | 23.06 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Left   | 21.88 | / | / | 22.94 | / | / | <=30 | Pass |
|                    | 3525    | Edge 1RB Right  | 21.91 | / | / | 22.97 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 22.09 | / | / | 23.15 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 22.00 | / | / | 23.06 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 21.88 | / | / | 22.94 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 21.96 | / | / | 23.02 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Left   | 22.94 | / | / | 24.00 | / | / | <=30 | Pass |
| CP-OFDM QPSK       | 3475.02 | Edge 1RB Right  | 22.89 | / | / | 23.95 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.52 | / | / | 24.58 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.56 | / | / | 24.62 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.55 | / | / | 24.61 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.53 | / | / | 24.59 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Left   | 23.14 | / | / | 24.20 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge 1RB Right  | 23.12 | / | / | 24.18 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.60 | / | / | 24.66 | / | / | <=30 | Pass |



|                 |         |                 |       |   |   |       |   |   |      |      |
|-----------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                 |         | Inner_Full      | 23.59 | / | / | 24.65 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.79 | / | / | 24.85 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.65 | / | / | 24.71 | / | / | <=30 | Pass |
|                 | 3525    | Edge_1RB_Left   | 22.97 | / | / | 24.03 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.98 | / | / | 24.04 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.59 | / | / | 24.65 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.65 | / | / | 24.71 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.44 | / | / | 24.50 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.55 | / | / | 24.61 | / | / | <=30 | Pass |
| CP-OFDM 16 QAM  | 3475.02 | Edge_1RB_Left   | 22.84 | / | / | 23.90 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.87 | / | / | 23.93 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.55 | / | / | 24.61 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.60 | / | / | 24.66 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.47 | / | / | 24.53 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.48 | / | / | 24.54 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge_1RB_Left   | 23.27 | / | / | 24.33 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 23.21 | / | / | 24.27 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.63 | / | / | 24.69 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.59 | / | / | 24.65 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.82 | / | / | 24.88 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.68 | / | / | 24.74 | / | / | <=30 | Pass |
|                 | 3525    | Edge_1RB_Left   | 22.89 | / | / | 23.95 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 23.08 | / | / | 24.14 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.58 | / | / | 24.64 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.58 | / | / | 24.64 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.48 | / | / | 24.54 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.43 | / | / | 24.49 | / | / | <=30 | Pass |
| CP-OFDM 64 QAM  | 3475.02 | Edge_1RB_Left   | 22.92 | / | / | 23.98 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.97 | / | / | 24.03 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.11 | / | / | 24.17 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.11 | / | / | 24.17 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 22.98 | / | / | 24.04 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 22.96 | / | / | 24.02 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge_1RB_Left   | 23.17 | / | / | 24.23 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 23.04 | / | / | 24.10 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.16 | / | / | 24.22 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.08 | / | / | 24.14 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.20 | / | / | 24.26 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.04 | / | / | 24.10 | / | / | <=30 | Pass |
|                 | 3525    | Edge_1RB_Left   | 22.83 | / | / | 23.89 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 23.00 | / | / | 24.06 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 22.96 | / | / | 24.02 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.12 | / | / | 24.18 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 22.92 | / | / | 23.98 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 22.99 | / | / | 24.05 | / | / | <=30 | Pass |
| CP-OFDM 256 QAM | 3475.02 | Edge_1RB_Left   | 19.96 | / | / | 21.02 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 19.96 | / | / | 21.02 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 20.00 | / | / | 21.06 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 20.09 | / | / | 21.15 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 20.00 | / | / | 21.06 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 19.93 | / | / | 20.99 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge_1RB_Left   | 20.23 | / | / | 21.29 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 20.13 | / | / | 21.19 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 20.12 | / | / | 21.18 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 20.05 | / | / | 21.11 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 20.32 | / | / | 21.38 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 20.12 | / | / | 21.18 | / | / | <=30 | Pass |
|                 | 3525    | Edge_1RB_Left   | 19.88 | / | / | 20.94 | / | / | <=30 | Pass |

|                                                                                 |  |                 |       |   |   |       |   |   |      |      |
|---------------------------------------------------------------------------------|--|-----------------|-------|---|---|-------|---|---|------|------|
|                                                                                 |  | Edge_1RB_Right  | 19.93 | / | / | 20.99 | / | / | <=30 | Pass |
|                                                                                 |  | Outer_Full      | 19.95 | / | / | 21.01 | / | / | <=30 | Pass |
|                                                                                 |  | Inner_Full      | 19.99 | / | / | 21.05 | / | / | <=30 | Pass |
|                                                                                 |  | Inner_1RB_Left  | 19.89 | / | / | 20.95 | / | / | <=30 | Pass |
|                                                                                 |  | Inner_1RB_Right | 20.01 | / | / | 21.07 | / | / | <=30 | Pass |
| Note1: Antenna Gain: Ant1: 1.06dBi;<br>Note2: EIRP=Conducted Power+Antenna Gain |  |                 |       |   |   |       |   |   |      |      |

## 1.5 30k\_SISO\_60MHz\_NTNV\_EIRP

### 1.5.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 60MHz NTN |                 |                 |                      |      |     |           |      |     |       |         |
|--------------------------------------------------|-----------------|-----------------|----------------------|------|-----|-----------|------|-----|-------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation   | Conducted Power(dBm) |      |     | EIRP(dBm) |      |     |       | Verdict |
|                                                  |                 |                 | Ant1                 | Ant2 | Sum | Ant1      | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                             | 3480            | Edge_1RB_Left   | 22.68                | /    | /   | 23.74     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 22.66                | /    | /   | 23.72     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.25                | /    | /   | 24.31     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.31                | /    | /   | 24.37     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.18                | /    | /   | 24.24     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.14                | /    | /   | 24.20     | /    | /   | <=30  | Pass    |
|                                                  | 3500.01         | Edge_1RB_Left   | 22.83                | /    | /   | 23.89     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 22.87                | /    | /   | 23.93     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.25                | /    | /   | 24.31     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.20                | /    | /   | 24.26     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.32                | /    | /   | 24.38     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.34                | /    | /   | 24.40     | /    | /   | <=30  | Pass    |
|                                                  | 3519.99         | Edge_1RB_Left   | 22.79                | /    | /   | 23.85     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 22.78                | /    | /   | 23.84     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.29                | /    | /   | 24.35     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.34                | /    | /   | 24.40     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.27                | /    | /   | 24.33     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.16                | /    | /   | 24.22     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM QPSK                                  | 3480            | Edge_1RB_Left   | 22.66                | /    | /   | 23.72     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 22.56                | /    | /   | 23.62     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.27                | /    | /   | 24.33     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.34                | /    | /   | 24.40     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.13                | /    | /   | 24.19     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.07                | /    | /   | 24.13     | /    | /   | <=30  | Pass    |
|                                                  | 3500.01         | Edge_1RB_Left   | 22.77                | /    | /   | 23.83     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 22.88                | /    | /   | 23.94     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.33                | /    | /   | 24.39     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.21                | /    | /   | 24.27     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.30                | /    | /   | 24.36     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.34                | /    | /   | 24.40     | /    | /   | <=30  | Pass    |
|                                                  | 3519.99         | Edge_1RB_Left   | 22.76                | /    | /   | 23.82     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 22.80                | /    | /   | 23.86     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.30                | /    | /   | 24.36     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.31                | /    | /   | 24.37     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.26                | /    | /   | 24.32     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.30                | /    | /   | 24.36     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM 16 QAM                                | 3480            | Edge_1RB_Left   | 22.75                | /    | /   | 23.81     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 22.74                | /    | /   | 23.80     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.20                | /    | /   | 24.26     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.30                | /    | /   | 24.36     | /    | /   | <=30  | Pass    |

|                    |         |                 |       |   |   |       |   |   |      |      |
|--------------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                    |         | Inner 1RB Left  | 23.24 | / | / | 24.30 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge 1RB Left   | 22.96 | / | / | 24.02 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 22.90 | / | / | 23.96 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 23.28 | / | / | 24.34 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.51 | / | / | 24.57 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.51 | / | / | 24.57 | / | / | <=30 | Pass |
|                    | 3519.99 | Edge 1RB Left   | 22.84 | / | / | 23.90 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 22.73 | / | / | 23.79 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 23.32 | / | / | 24.38 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.26 | / | / | 24.32 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.34 | / | / | 24.40 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.28 | / | / | 24.34 | / | / | <=30 | Pass |
| DFT-s-OFDM 64 QAM  | 3480    | Edge 1RB Left   | 22.80 | / | / | 23.86 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 22.74 | / | / | 23.80 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 23.28 | / | / | 24.34 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.31 | / | / | 24.37 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.24 | / | / | 24.30 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.19 | / | / | 24.25 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge 1RB Left   | 22.94 | / | / | 24.00 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 23.01 | / | / | 24.07 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 23.29 | / | / | 24.35 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.24 | / | / | 24.30 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.34 | / | / | 24.40 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.44 | / | / | 24.50 | / | / | <=30 | Pass |
|                    | 3519.99 | Edge 1RB Left   | 22.77 | / | / | 23.83 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 22.73 | / | / | 23.79 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 23.29 | / | / | 24.35 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.36 | / | / | 24.42 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.30 | / | / | 24.36 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.20 | / | / | 24.26 | / | / | <=30 | Pass |
| DFT-s-OFDM 256 QAM | 3480    | Edge 1RB Left   | 21.63 | / | / | 22.69 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 21.63 | / | / | 22.69 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 21.74 | / | / | 22.80 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 21.87 | / | / | 22.93 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 21.62 | / | / | 22.68 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 21.62 | / | / | 22.68 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge 1RB Left   | 21.77 | / | / | 22.83 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 21.83 | / | / | 22.89 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 21.79 | / | / | 22.85 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 21.73 | / | / | 22.79 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 21.76 | / | / | 22.82 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 21.82 | / | / | 22.88 | / | / | <=30 | Pass |
|                    | 3519.99 | Edge 1RB Left   | 21.76 | / | / | 22.82 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 21.70 | / | / | 22.76 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 21.74 | / | / | 22.80 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 21.81 | / | / | 22.87 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 21.72 | / | / | 22.78 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 21.55 | / | / | 22.61 | / | / | <=30 | Pass |
| CP-OFDM QPSK       | 3480    | Edge 1RB Left   | 22.74 | / | / | 23.80 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 22.64 | / | / | 23.70 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 23.30 | / | / | 24.36 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.29 | / | / | 24.35 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.28 | / | / | 24.34 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.21 | / | / | 24.27 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge 1RB Left   | 22.83 | / | / | 23.89 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 22.98 | / | / | 24.04 | / | / | <=30 | Pass |

|                 |         |                 |       |   |   |       |   |   |      |      |
|-----------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                 | 3519.99 | Outer_Full      | 23.36 | / | / | 24.42 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.24 | / | / | 24.30 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.37 | / | / | 24.43 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.36 | / | / | 24.42 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Left   | 22.80 | / | / | 23.86 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.82 | / | / | 23.88 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.34 | / | / | 24.40 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.28 | / | / | 24.34 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.40 | / | / | 24.46 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.26 | / | / | 24.32 | / | / | <=30 | Pass |
| CP-OFDM 16 QAM  | 3480    | Edge_1RB_Left   | 22.69 | / | / | 23.75 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.67 | / | / | 23.73 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.22 | / | / | 24.28 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.36 | / | / | 24.42 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.27 | / | / | 24.33 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.23 | / | / | 24.29 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge_1RB_Left   | 22.85 | / | / | 23.91 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.86 | / | / | 23.92 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.26 | / | / | 24.32 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.38 | / | / | 24.44 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.40 | / | / | 24.46 | / | / | <=30 | Pass |
|                 | 3519.99 | Edge_1RB_Left   | 22.77 | / | / | 23.83 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.71 | / | / | 23.77 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.27 | / | / | 24.33 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.31 | / | / | 24.37 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.35 | / | / | 24.41 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.24 | / | / | 24.30 | / | / | <=30 | Pass |
| CP-OFDM 64 QAM  | 3480    | Edge_1RB_Left   | 22.85 | / | / | 23.91 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.90 | / | / | 23.96 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 22.79 | / | / | 23.85 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 22.85 | / | / | 23.91 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 22.90 | / | / | 23.96 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 22.81 | / | / | 23.87 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge_1RB_Left   | 23.03 | / | / | 24.09 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.99 | / | / | 24.05 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 22.89 | / | / | 23.95 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 22.77 | / | / | 23.83 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.04 | / | / | 24.10 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 22.99 | / | / | 24.05 | / | / | <=30 | Pass |
|                 | 3519.99 | Edge_1RB_Left   | 23.01 | / | / | 24.07 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.94 | / | / | 24.00 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 22.82 | / | / | 23.88 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 22.82 | / | / | 23.88 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 22.95 | / | / | 24.01 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 22.86 | / | / | 23.92 | / | / | <=30 | Pass |
| CP-OFDM 256 QAM | 3480    | Edge_1RB_Left   | 19.66 | / | / | 20.72 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 19.65 | / | / | 20.71 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 19.83 | / | / | 20.89 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 19.82 | / | / | 20.88 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 19.70 | / | / | 20.76 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 19.60 | / | / | 20.66 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge_1RB_Left   | 19.92 | / | / | 20.98 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 19.97 | / | / | 21.03 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 19.76 | / | / | 20.82 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 19.77 | / | / | 20.83 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 19.94 | / | / | 21.00 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 19.91 | / | / | 20.97 | / | / | <=30 | Pass |

|                                                                                 |         |                 |       |   |   |       |   |   |      |      |
|---------------------------------------------------------------------------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                                                                                 | 3519.99 | Edge_1RB_Left   | 19.84 | / | / | 20.90 | / | / | <=30 | Pass |
|                                                                                 |         | Edge_1RB_Right  | 19.77 | / | / | 20.83 | / | / | <=30 | Pass |
|                                                                                 |         | Outer_Full      | 19.79 | / | / | 20.85 | / | / | <=30 | Pass |
|                                                                                 |         | Inner_Full      | 19.82 | / | / | 20.88 | / | / | <=30 | Pass |
|                                                                                 |         | Inner_1RB_Left  | 19.73 | / | / | 20.79 | / | / | <=30 | Pass |
|                                                                                 |         | Inner_1RB_Right | 19.66 | / | / | 20.72 | / | / | <=30 | Pass |
| Note1: Antenna Gain: Ant1: 1.06dBi;<br>Note2: EIRP=Conducted Power+Antenna Gain |         |                 |       |   |   |       |   |   |      |      |

## 1.6 30k\_SISO\_70MHz\_NTNV\_EIRP

### 1.6.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 70MHz NTN |                 |                 |                      |      |     |           |      |     |       |         |
|--------------------------------------------------|-----------------|-----------------|----------------------|------|-----|-----------|------|-----|-------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation   | Conducted Power(dBm) |      |     | EIRP(dBm) |      |     |       | Verdict |
|                                                  |                 |                 | Ant1                 | Ant2 | Sum | Ant1      | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                             | 3485.01         | Edge_1RB_Left   | 22.53                | /    | /   | 23.59     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 22.78                | /    | /   | 23.84     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.13                | /    | /   | 24.19     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.16                | /    | /   | 24.22     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.02                | /    | /   | 24.08     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.28                | /    | /   | 24.34     | /    | /   | <=30  | Pass    |
|                                                  | 3500.01         | Edge_1RB_Left   | 22.71                | /    | /   | 23.77     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 22.80                | /    | /   | 23.86     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.35                | /    | /   | 24.41     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.27                | /    | /   | 24.33     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.25                | /    | /   | 24.31     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.32                | /    | /   | 24.38     | /    | /   | <=30  | Pass    |
|                                                  | 3514.98         | Edge_1RB_Left   | 22.88                | /    | /   | 23.94     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 22.70                | /    | /   | 23.76     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.42                | /    | /   | 24.48     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.35                | /    | /   | 24.41     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.40                | /    | /   | 24.46     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.33                | /    | /   | 24.39     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM QPSK                                  | 3485.01         | Edge_1RB_Left   | 22.49                | /    | /   | 23.55     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 22.77                | /    | /   | 23.83     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.11                | /    | /   | 24.17     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.20                | /    | /   | 24.26     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.05                | /    | /   | 24.11     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.28                | /    | /   | 24.34     | /    | /   | <=30  | Pass    |
|                                                  | 3500.01         | Edge_1RB_Left   | 22.72                | /    | /   | 23.78     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 22.78                | /    | /   | 23.84     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.32                | /    | /   | 24.38     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.22                | /    | /   | 24.28     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.23                | /    | /   | 24.29     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.35                | /    | /   | 24.41     | /    | /   | <=30  | Pass    |
|                                                  | 3514.98         | Edge_1RB_Left   | 22.83                | /    | /   | 23.89     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 22.66                | /    | /   | 23.72     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.41                | /    | /   | 24.47     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.37                | /    | /   | 24.43     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Left  | 23.36                | /    | /   | 24.42     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_1RB_Right | 23.24                | /    | /   | 24.30     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM 16 QAM                                | 3485.01         | Edge_1RB_Left   | 22.63                | /    | /   | 23.69     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge_1RB_Right  | 22.75                | /    | /   | 23.81     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.15                | /    | /   | 24.21     | /    | /   | <=30  | Pass    |

|                    |         |                 |       |   |   |       |   |   |      |      |
|--------------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                    |         | Inner_Full      | 23.20 | / | / | 24.26 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.11 | / | / | 24.17 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.27 | / | / | 24.33 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge_1RB_Left   | 22.75 | / | / | 23.81 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.93 | / | / | 23.99 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.28 | / | / | 24.34 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.24 | / | / | 24.30 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.32 | / | / | 24.38 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.46 | / | / | 24.52 | / | / | <=30 | Pass |
|                    | 3514.98 | Edge_1RB_Left   | 22.96 | / | / | 24.02 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.81 | / | / | 23.87 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.47 | / | / | 24.53 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.35 | / | / | 24.41 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.52 | / | / | 24.58 | / | / | <=30 | Pass |
| DFT-s-OFDM 64 QAM  | 3485.01 | Inner_1RB_Right | 23.38 | / | / | 24.44 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 22.68 | / | / | 23.74 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.78 | / | / | 23.84 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.17 | / | / | 24.23 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.21 | / | / | 24.27 | / | / | <=30 | Pass |
|                    | 3500.01 | Inner_1RB_Left  | 23.12 | / | / | 24.18 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.17 | / | / | 24.23 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 22.88 | / | / | 23.94 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.97 | / | / | 24.03 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.37 | / | / | 24.43 | / | / | <=30 | Pass |
|                    | 3514.98 | Inner_Full      | 23.23 | / | / | 24.29 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.27 | / | / | 24.33 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.38 | / | / | 24.44 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 23.06 | / | / | 24.12 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.90 | / | / | 23.96 | / | / | <=30 | Pass |
| DFT-s-OFDM 256 QAM | 3485.01 | Outer_Full      | 23.47 | / | / | 24.53 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.31 | / | / | 24.37 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.45 | / | / | 24.51 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.32 | / | / | 24.38 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 21.55 | / | / | 22.61 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge_1RB_Right  | 21.68 | / | / | 22.74 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 21.67 | / | / | 22.73 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 21.72 | / | / | 22.78 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 21.55 | / | / | 22.61 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 21.73 | / | / | 22.79 | / | / | <=30 | Pass |
|                    | 3514.98 | Edge_1RB_Left   | 21.65 | / | / | 22.71 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 21.74 | / | / | 22.80 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 21.79 | / | / | 22.85 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 21.74 | / | / | 22.80 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 21.64 | / | / | 22.70 | / | / | <=30 | Pass |
| CP-OFDM QPSK       | 3485.01 | Inner_1RB_Right | 21.75 | / | / | 22.81 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 21.83 | / | / | 22.89 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 21.76 | / | / | 22.82 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 21.88 | / | / | 22.94 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 21.90 | / | / | 22.96 | / | / | <=30 | Pass |
|                    | 3500.01 | Inner_1RB_Left  | 21.87 | / | / | 22.93 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 21.76 | / | / | 22.82 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 22.57 | / | / | 23.63 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.83 | / | / | 23.89 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.15 | / | / | 24.21 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.21 | / | / | 24.27 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.12 | / | / | 24.18 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.28 | / | / | 24.34 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge_1RB_Left   | 22.74 | / | / | 23.80 | / | / | <=30 | Pass |

|                 |         |                 |       |   |   |       |   |   |      |      |
|-----------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                 |         | Edge_1RB_Right  | 22.85 | / | / | 23.91 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.27 | / | / | 24.33 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.24 | / | / | 24.30 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.52 | / | / | 24.58 | / | / | <=30 | Pass |
|                 | 3514.98 | Edge_1RB_Left   | 22.92 | / | / | 23.98 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.79 | / | / | 23.85 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.41 | / | / | 24.47 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.41 | / | / | 24.47 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.44 | / | / | 24.50 | / | / | <=30 | Pass |
| CP-OFDM 16 QAM  | 3485.01 | Inner_1RB_Right | 23.20 | / | / | 24.26 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Left   | 22.65 | / | / | 23.71 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.83 | / | / | 23.89 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.13 | / | / | 24.19 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.17 | / | / | 24.23 | / | / | <=30 | Pass |
|                 | 3500.01 | Inner_1RB_Left  | 23.12 | / | / | 24.18 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.36 | / | / | 24.42 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Left   | 22.75 | / | / | 23.81 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.83 | / | / | 23.89 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.29 | / | / | 24.35 | / | / | <=30 | Pass |
|                 | 3514.98 | Inner_Full      | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.29 | / | / | 24.35 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.43 | / | / | 24.49 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Left   | 22.90 | / | / | 23.96 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.74 | / | / | 23.80 | / | / | <=30 | Pass |
| CP-OFDM 64 QAM  | 3485.01 | Outer_Full      | 23.41 | / | / | 24.47 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.40 | / | / | 24.46 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.47 | / | / | 24.53 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.30 | / | / | 24.36 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Left   | 22.75 | / | / | 23.81 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge_1RB_Right  | 22.96 | / | / | 24.02 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 22.69 | / | / | 23.75 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 22.66 | / | / | 23.72 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 22.76 | / | / | 23.82 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 22.87 | / | / | 23.93 | / | / | <=30 | Pass |
|                 | 3514.98 | Edge_1RB_Left   | 22.97 | / | / | 24.03 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 23.07 | / | / | 24.13 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 22.82 | / | / | 23.88 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 22.76 | / | / | 23.82 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 22.98 | / | / | 24.04 | / | / | <=30 | Pass |
| CP-OFDM 256 QAM | 3485.01 | Inner_1RB_Right | 23.09 | / | / | 24.15 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Left   | 23.06 | / | / | 24.12 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.95 | / | / | 24.01 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 22.97 | / | / | 24.03 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 22.86 | / | / | 23.92 | / | / | <=30 | Pass |
|                 | 3500.01 | Inner_1RB_Left  | 23.15 | / | / | 24.21 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 22.95 | / | / | 24.01 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Left   | 19.53 | / | / | 20.59 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 19.74 | / | / | 20.80 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 19.58 | / | / | 20.64 | / | / | <=30 | Pass |
|                 | 3485.01 | Inner_Full      | 19.67 | / | / | 20.73 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 19.59 | / | / | 20.65 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 19.77 | / | / | 20.83 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge_1RB_Left   | 19.73 | / | / | 20.79 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 19.88 | / | / | 20.94 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 19.82 | / | / | 20.88 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 19.75 | / | / | 20.81 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 19.76 | / | / | 20.82 | / | / | <=30 | Pass |

|                                                                                 |         |                 |       |   |   |       |   |   |      |      |
|---------------------------------------------------------------------------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                                                                                 |         | Inner 1RB Right | 19.97 | / | / | 21.03 | / | / | <=30 | Pass |
|                                                                                 | 3514.98 | Edge 1RB Left   | 19.90 | / | / | 20.96 | / | / | <=30 | Pass |
|                                                                                 |         | Edge 1RB Right  | 19.75 | / | / | 20.81 | / | / | <=30 | Pass |
|                                                                                 |         | Outer_Full      | 19.86 | / | / | 20.92 | / | / | <=30 | Pass |
|                                                                                 |         | Inner_Full      | 19.86 | / | / | 20.92 | / | / | <=30 | Pass |
|                                                                                 |         | Inner 1RB Left  | 19.92 | / | / | 20.98 | / | / | <=30 | Pass |
|                                                                                 |         | Inner 1RB Right | 19.80 | / | / | 20.86 | / | / | <=30 | Pass |
| Note1: Antenna Gain: Ant1: 1.06dBi;<br>Note2: EIRP=Conducted Power+Antenna Gain |         |                 |       |   |   |       |   |   |      |      |

## 1.7 30k\_SISO\_80MHz\_NTNV\_EIRP

### 1.7.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 80MHz NTN |                 |                 |                      |      |     |           |      |     |       |         |
|--------------------------------------------------|-----------------|-----------------|----------------------|------|-----|-----------|------|-----|-------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation   | Conducted Power(dBm) |      |     | EIRP(dBm) |      |     |       | Verdict |
|                                                  |                 |                 | Ant1                 | Ant2 | Sum | Ant1      | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                             | 3490.02         | Edge 1RB Left   | 22.64                | /    | /   | 23.70     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 22.93                | /    | /   | 23.99     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.30                | /    | /   | 24.36     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.32                | /    | /   | 24.38     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.15                | /    | /   | 24.21     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.32                | /    | /   | 24.38     | /    | /   | <=30  | Pass    |
|                                                  | 3500.01         | Edge 1RB Left   | 22.69                | /    | /   | 23.75     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 22.85                | /    | /   | 23.91     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.32                | /    | /   | 24.38     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.21                | /    | /   | 24.27     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.17                | /    | /   | 24.23     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.36                | /    | /   | 24.42     | /    | /   | <=30  | Pass    |
|                                                  | 3510            | Edge 1RB Left   | 22.79                | /    | /   | 23.85     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 22.75                | /    | /   | 23.81     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.31                | /    | /   | 24.37     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.22                | /    | /   | 24.28     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.28                | /    | /   | 24.34     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.24                | /    | /   | 24.30     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM QPSK                                  | 3490.02         | Edge 1RB Left   | 22.63                | /    | /   | 23.69     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 22.88                | /    | /   | 23.94     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.23                | /    | /   | 24.29     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.29                | /    | /   | 24.35     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.07                | /    | /   | 24.13     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.39                | /    | /   | 24.45     | /    | /   | <=30  | Pass    |
|                                                  | 3500.01         | Edge 1RB Left   | 22.68                | /    | /   | 23.74     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 22.77                | /    | /   | 23.83     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.27                | /    | /   | 24.33     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.23                | /    | /   | 24.29     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.14                | /    | /   | 24.20     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.28                | /    | /   | 24.34     | /    | /   | <=30  | Pass    |
|                                                  | 3510            | Edge 1RB Left   | 22.73                | /    | /   | 23.79     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 22.67                | /    | /   | 23.73     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer_Full      | 23.30                | /    | /   | 24.36     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner_Full      | 23.23                | /    | /   | 24.29     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.32                | /    | /   | 24.38     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.16                | /    | /   | 24.22     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM 16 QAM                                | 3490.02         | Edge 1RB Left   | 22.62                | /    | /   | 23.68     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 22.77                | /    | /   | 23.83     | /    | /   | <=30  | Pass    |

|                    |         |                 |       |   |   |       |   |   |      |      |
|--------------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                    |         | Outer_Full      | 23.31 | / | / | 24.37 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.24 | / | / | 24.30 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.12 | / | / | 24.18 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.30 | / | / | 24.36 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 22.67 | / | / | 23.73 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.72 | / | / | 23.78 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.33 | / | / | 24.39 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.24 | / | / | 24.30 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.21 | / | / | 24.27 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.30 | / | / | 24.36 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 22.75 | / | / | 23.81 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.72 | / | / | 23.78 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.36 | / | / | 24.42 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.12 | / | / | 24.18 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.34 | / | / | 24.40 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.27 | / | / | 24.33 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 22.48 | / | / | 23.54 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.65 | / | / | 23.71 | / | / | <=30 | Pass |
| DFT-s-OFDM 64 QAM  | 3490.02 | Outer_Full      | 23.26 | / | / | 24.32 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.28 | / | / | 24.34 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.17 | / | / | 24.23 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.32 | / | / | 24.38 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 22.54 | / | / | 23.60 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.68 | / | / | 23.74 | / | / | <=30 | Pass |
|                    | 3500.01 | Outer_Full      | 23.30 | / | / | 24.36 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.22 | / | / | 24.28 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.17 | / | / | 24.23 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.31 | / | / | 24.37 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 22.68 | / | / | 23.74 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.64 | / | / | 23.70 | / | / | <=30 | Pass |
|                    | 3510    | Outer_Full      | 23.34 | / | / | 24.40 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.13 | / | / | 24.19 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.31 | / | / | 24.37 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 21.61 | / | / | 22.67 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 21.76 | / | / | 22.82 | / | / | <=30 | Pass |
| DFT-s-OFDM 256 QAM | 3490.02 | Outer_Full      | 21.77 | / | / | 22.83 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 21.78 | / | / | 22.84 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 21.61 | / | / | 22.67 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 21.85 | / | / | 22.91 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 21.57 | / | / | 22.63 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 21.67 | / | / | 22.73 | / | / | <=30 | Pass |
|                    | 3500.01 | Outer_Full      | 21.81 | / | / | 22.87 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 21.71 | / | / | 22.77 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 21.59 | / | / | 22.65 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 21.68 | / | / | 22.74 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 21.74 | / | / | 22.80 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 21.67 | / | / | 22.73 | / | / | <=30 | Pass |
|                    | 3510    | Outer_Full      | 21.86 | / | / | 22.92 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 21.77 | / | / | 22.83 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 21.71 | / | / | 22.77 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 21.68 | / | / | 22.74 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 22.68 | / | / | 23.74 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.98 | / | / | 24.04 | / | / | <=30 | Pass |
| CP-OFDM QPSK       | 3490.02 | Outer_Full      | 23.27 | / | / | 24.33 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.26 | / | / | 24.32 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.17 | / | / | 24.23 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.42 | / | / | 24.48 | / | / | <=30 | Pass |



|                 |         |                 |       |   |   |       |   |   |      |      |
|-----------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                 | 3500.01 | Edge_1RB_Left   | 22.64 | / | / | 23.70 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.69 | / | / | 23.75 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.30 | / | / | 24.36 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.21 | / | / | 24.27 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.19 | / | / | 24.25 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.31 | / | / | 24.37 | / | / | <=30 | Pass |
|                 | 3510    | Edge_1RB_Left   | 22.76 | / | / | 23.82 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.91 | / | / | 23.97 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.31 | / | / | 24.37 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.28 | / | / | 24.34 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.39 | / | / | 24.45 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.38 | / | / | 24.44 | / | / | <=30 | Pass |
| CP-OFDM 16 QAM  | 3490.02 | Edge_1RB_Left   | 22.60 | / | / | 23.66 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.74 | / | / | 23.80 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.30 | / | / | 24.36 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.27 | / | / | 24.33 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.30 | / | / | 24.36 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.39 | / | / | 24.45 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge_1RB_Left   | 22.72 | / | / | 23.78 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.90 | / | / | 23.96 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.34 | / | / | 24.40 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.21 | / | / | 24.27 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                 | 3510    | Edge_1RB_Left   | 22.86 | / | / | 23.92 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.88 | / | / | 23.94 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.33 | / | / | 24.39 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.24 | / | / | 24.30 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.32 | / | / | 24.38 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.33 | / | / | 24.39 | / | / | <=30 | Pass |
| CP-OFDM 64 QAM  | 3490.02 | Edge_1RB_Left   | 22.68 | / | / | 23.74 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.81 | / | / | 23.87 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 22.78 | / | / | 23.84 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 22.75 | / | / | 23.81 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 22.63 | / | / | 23.69 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 22.83 | / | / | 23.89 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge_1RB_Left   | 22.65 | / | / | 23.71 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.79 | / | / | 23.85 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 22.78 | / | / | 23.84 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 22.72 | / | / | 23.78 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 22.69 | / | / | 23.75 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 22.82 | / | / | 23.88 | / | / | <=30 | Pass |
|                 | 3510    | Edge_1RB_Left   | 22.95 | / | / | 24.01 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.93 | / | / | 23.99 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 22.83 | / | / | 23.89 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 22.78 | / | / | 23.84 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 22.96 | / | / | 24.02 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 22.94 | / | / | 24.00 | / | / | <=30 | Pass |
| CP-OFDM 256 QAM | 3490.02 | Edge_1RB_Left   | 19.62 | / | / | 20.68 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 19.80 | / | / | 20.86 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 19.69 | / | / | 20.75 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 19.79 | / | / | 20.85 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 19.55 | / | / | 20.61 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 19.70 | / | / | 20.76 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge_1RB_Left   | 19.63 | / | / | 20.69 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 19.73 | / | / | 20.79 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 19.84 | / | / | 20.90 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 19.77 | / | / | 20.83 | / | / | <=30 | Pass |

|  |      |                 |       |   |   |       |   |   |      |      |
|--|------|-----------------|-------|---|---|-------|---|---|------|------|
|  | 3510 | Inner 1RB Left  | 19.72 | / | / | 20.78 | / | / | <=30 | Pass |
|  |      | Inner 1RB Right | 19.72 | / | / | 20.78 | / | / | <=30 | Pass |
|  |      | Edge 1RB Left   | 19.76 | / | / | 20.82 | / | / | <=30 | Pass |
|  |      | Edge 1RB Right  | 19.66 | / | / | 20.72 | / | / | <=30 | Pass |
|  |      | Outer Full      | 19.83 | / | / | 20.89 | / | / | <=30 | Pass |
|  |      | Inner Full      | 19.75 | / | / | 20.81 | / | / | <=30 | Pass |
|  |      | Inner 1RB Left  | 19.71 | / | / | 20.77 | / | / | <=30 | Pass |
|  |      | Inner 1RB Right | 19.71 | / | / | 20.77 | / | / | <=30 | Pass |

Note1: Antenna Gain: Ant1: 1.06dBi;  
Note2: EIRP=Conducted Power+Antenna Gain

## 1.8 30k\_SISO\_90MHz\_NTNV\_EIRP

### 1.8.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 90MHz NTN |                 |                 |                      |      |     |           |      |     |       |         |
|--------------------------------------------------|-----------------|-----------------|----------------------|------|-----|-----------|------|-----|-------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation   | Conducted Power(dBm) |      |     | EIRP(dBm) |      |     |       | Verdict |
|                                                  |                 |                 | Ant1                 | Ant2 | Sum | Ant1      | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                             | 3495            | Edge 1RB Left   | 22.62                | /    | /   | 23.68     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 22.76                | /    | /   | 23.82     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 23.20                | /    | /   | 24.26     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 23.12                | /    | /   | 24.18     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.11                | /    | /   | 24.17     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.23                | /    | /   | 24.29     | /    | /   | <=30  | Pass    |
|                                                  | 3500.01         | Edge 1RB Left   | 22.63                | /    | /   | 23.69     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 22.65                | /    | /   | 23.71     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 23.24                | /    | /   | 24.30     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 23.24                | /    | /   | 24.30     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.14                | /    | /   | 24.20     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.20                | /    | /   | 24.26     | /    | /   | <=30  | Pass    |
|                                                  | 3504.99         | Edge 1RB Left   | 22.74                | /    | /   | 23.80     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 22.61                | /    | /   | 23.67     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 23.29                | /    | /   | 24.35     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 23.28                | /    | /   | 24.34     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.23                | /    | /   | 24.29     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.09                | /    | /   | 24.15     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM QPSK                                  | 3495            | Edge 1RB Left   | 22.60                | /    | /   | 23.66     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 22.79                | /    | /   | 23.85     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 23.16                | /    | /   | 24.22     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 23.07                | /    | /   | 24.13     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.11                | /    | /   | 24.17     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.23                | /    | /   | 24.29     | /    | /   | <=30  | Pass    |
|                                                  | 3500.01         | Edge 1RB Left   | 22.68                | /    | /   | 23.74     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 22.66                | /    | /   | 23.72     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 23.30                | /    | /   | 24.36     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 23.17                | /    | /   | 24.23     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.09                | /    | /   | 24.15     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.18                | /    | /   | 24.24     | /    | /   | <=30  | Pass    |
|                                                  | 3504.99         | Edge 1RB Left   | 22.67                | /    | /   | 23.73     | /    | /   | <=30  | Pass    |
|                                                  |                 | Edge 1RB Right  | 22.59                | /    | /   | 23.65     | /    | /   | <=30  | Pass    |
|                                                  |                 | Outer Full      | 23.30                | /    | /   | 24.36     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner Full      | 23.27                | /    | /   | 24.33     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Left  | 23.17                | /    | /   | 24.23     | /    | /   | <=30  | Pass    |
|                                                  |                 | Inner 1RB Right | 23.04                | /    | /   | 24.10     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM 16 QAM                                | 3495            | Edge 1RB Left   | 22.59                | /    | /   | 23.65     | /    | /   | <=30  | Pass    |

|                    |         |                 |       |   |   |       |   |   |      |      |
|--------------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                    |         | Edge_1RB_Right  | 22.79 | / | / | 23.85 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.12 | / | / | 24.18 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.18 | / | / | 24.24 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.33 | / | / | 24.39 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge_1RB_Left   | 22.72 | / | / | 23.78 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.71 | / | / | 23.77 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.24 | / | / | 24.30 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.21 | / | / | 24.27 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.19 | / | / | 24.25 | / | / | <=30 | Pass |
|                    | 3504.99 | Inner_1RB_Right | 23.23 | / | / | 24.29 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 22.76 | / | / | 23.82 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.65 | / | / | 23.71 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.36 | / | / | 24.42 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.34 | / | / | 24.40 | / | / | <=30 | Pass |
| DFT-s-OFDM 64 QAM  | 3495    | Inner_1RB_Left  | 23.21 | / | / | 24.27 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.14 | / | / | 24.20 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 22.63 | / | / | 23.69 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.76 | / | / | 23.82 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.26 | / | / | 24.32 | / | / | <=30 | Pass |
|                    | 3500.01 | Inner_Full      | 23.11 | / | / | 24.17 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.12 | / | / | 24.18 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 22.62 | / | / | 23.68 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.66 | / | / | 23.72 | / | / | <=30 | Pass |
|                    | 3504.99 | Outer_Full      | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.19 | / | / | 24.25 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.17 | / | / | 24.23 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.19 | / | / | 24.25 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 22.70 | / | / | 23.76 | / | / | <=30 | Pass |
| DFT-s-OFDM 256 QAM | 3495    | Edge_1RB_Right  | 22.52 | / | / | 23.58 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.32 | / | / | 24.38 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.33 | / | / | 24.39 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.22 | / | / | 24.28 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 23.04 | / | / | 24.10 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge_1RB_Left   | 21.59 | / | / | 22.65 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 21.72 | / | / | 22.78 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 21.63 | / | / | 22.69 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 21.63 | / | / | 22.69 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 21.62 | / | / | 22.68 | / | / | <=30 | Pass |
|                    | 3504.99 | Inner_1RB_Right | 21.73 | / | / | 22.79 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 21.61 | / | / | 22.67 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 21.62 | / | / | 22.68 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 21.76 | / | / | 22.82 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 21.69 | / | / | 22.75 | / | / | <=30 | Pass |
| CP-OFDM QPSK       | 3495    | Inner_1RB_Left  | 21.59 | / | / | 22.65 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 21.59 | / | / | 22.65 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 21.65 | / | / | 22.71 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 21.53 | / | / | 22.59 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 21.82 | / | / | 22.88 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 21.80 | / | / | 22.86 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 21.64 | / | / | 22.70 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Right | 21.50 | / | / | 22.56 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Left   | 22.64 | / | / | 23.70 | / | / | <=30 | Pass |
|                    |         | Edge_1RB_Right  | 22.83 | / | / | 23.89 | / | / | <=30 | Pass |
|                    |         | Outer_Full      | 23.18 | / | / | 24.24 | / | / | <=30 | Pass |
|                    |         | Inner_Full      | 23.15 | / | / | 24.21 | / | / | <=30 | Pass |
|                    |         | Inner_1RB_Left  | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |



|                 |         |                 |       |   |   |       |   |   |      |      |
|-----------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                 |         | Inner_1RB_Right | 23.34 | / | / | 24.40 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Left   | 22.65 | / | / | 23.71 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.72 | / | / | 23.78 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.29 | / | / | 24.35 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.24 | / | / | 24.30 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.23 | / | / | 24.29 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.19 | / | / | 24.25 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Left   | 22.73 | / | / | 23.79 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Right  | 22.61 | / | / | 23.67 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.32 | / | / | 24.38 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.29 | / | / | 24.35 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.10 | / | / | 24.16 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Left   | 22.65 | / | / | 23.71 | / | / | <=30 | Pass |
| CP-OFDM 16 QAM  | 3495    | Edge_1RB_Right  | 22.84 | / | / | 23.90 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.20 | / | / | 24.26 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.09 | / | / | 24.15 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.14 | / | / | 24.20 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.31 | / | / | 24.37 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Left   | 22.70 | / | / | 23.76 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge_1RB_Right  | 22.73 | / | / | 23.79 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.19 | / | / | 24.25 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.20 | / | / | 24.26 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.17 | / | / | 24.23 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.17 | / | / | 24.23 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Left   | 22.76 | / | / | 23.82 | / | / | <=30 | Pass |
|                 | 3504.99 | Edge_1RB_Right  | 22.63 | / | / | 23.69 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 23.29 | / | / | 24.35 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 23.26 | / | / | 24.32 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 23.09 | / | / | 24.15 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Left   | 22.68 | / | / | 23.74 | / | / | <=30 | Pass |
| CP-OFDM 64 QAM  | 3495    | Edge_1RB_Right  | 22.83 | / | / | 23.89 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 22.70 | / | / | 23.76 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 22.60 | / | / | 23.66 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 22.66 | / | / | 23.72 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 22.79 | / | / | 23.85 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Left   | 22.79 | / | / | 23.85 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge_1RB_Right  | 22.83 | / | / | 23.89 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 22.71 | / | / | 23.77 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 22.70 | / | / | 23.76 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 22.84 | / | / | 23.90 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 22.80 | / | / | 23.86 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Left   | 22.83 | / | / | 23.89 | / | / | <=30 | Pass |
|                 | 3504.99 | Edge_1RB_Right  | 22.74 | / | / | 23.80 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 22.83 | / | / | 23.89 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 22.78 | / | / | 23.84 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 22.85 | / | / | 23.91 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 22.73 | / | / | 23.79 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Left   | 19.65 | / | / | 20.71 | / | / | <=30 | Pass |
| CP-OFDM 256 QAM | 3495    | Edge_1RB_Right  | 19.82 | / | / | 20.88 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 19.64 | / | / | 20.70 | / | / | <=30 | Pass |
|                 |         | Inner_Full      | 19.60 | / | / | 20.66 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Left  | 19.55 | / | / | 20.61 | / | / | <=30 | Pass |
|                 |         | Inner_1RB_Right | 19.70 | / | / | 20.76 | / | / | <=30 | Pass |
|                 |         | Edge_1RB_Left   | 19.66 | / | / | 20.72 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge_1RB_Right  | 19.60 | / | / | 20.66 | / | / | <=30 | Pass |
|                 |         | Outer_Full      | 19.71 | / | / | 20.77 | / | / | <=30 | Pass |

|                                                                                 |         |                 |       |   |   |       |   |   |      |      |
|---------------------------------------------------------------------------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                                                                                 |         | Inner Full      | 20.35 | / | / | 21.41 | / | / | <=30 | Pass |
|                                                                                 |         | Inner 1RB Left  | 19.56 | / | / | 20.62 | / | / | <=30 | Pass |
|                                                                                 |         | Inner 1RB Right | 19.69 | / | / | 20.75 | / | / | <=30 | Pass |
|                                                                                 | 3504.99 | Edge 1RB Left   | 19.71 | / | / | 20.77 | / | / | <=30 | Pass |
|                                                                                 |         | Edge 1RB Right  | 19.62 | / | / | 20.68 | / | / | <=30 | Pass |
|                                                                                 |         | Outer Full      | 19.82 | / | / | 20.88 | / | / | <=30 | Pass |
|                                                                                 |         | Inner Full      | 19.79 | / | / | 20.85 | / | / | <=30 | Pass |
|                                                                                 |         | Inner 1RB Left  | 19.83 | / | / | 20.89 | / | / | <=30 | Pass |
|                                                                                 |         | Inner 1RB Right | 19.64 | / | / | 20.70 | / | / | <=30 | Pass |
|                                                                                 |         |                 |       |   |   |       |   |   |      |      |
| Note1: Antenna Gain: Ant1: 1.06dBi;<br>Note2: EIRP=Conducted Power+Antenna Gain |         |                 |       |   |   |       |   |   |      |      |

## 1.9 30k\_SISO\_100MHz\_NTNV\_EIRP

### 1.9.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 100MHz NTN |                 |                 |                      |   |   |           |   |   |      |         |
|---------------------------------------------------|-----------------|-----------------|----------------------|---|---|-----------|---|---|------|---------|
| Modulation                                        | Frequency (MHz) | RB Allocation   | Conducted Power(dBm) |   |   | EIRP(dBm) |   |   |      | Verdict |
| DFT-s-OFDM PI/2 BPSK                              | 3500.01         | Edge 1RB Left   | 22.64                | / | / | 23.70     | / | / | <=30 | Pass    |
|                                                   |                 | Edge 1RB Right  | 22.59                | / | / | 23.65     | / | / | <=30 | Pass    |
|                                                   |                 | Outer Full      | 23.25                | / | / | 24.31     | / | / | <=30 | Pass    |
|                                                   |                 | Inner Full      | 23.17                | / | / | 24.23     | / | / | <=30 | Pass    |
|                                                   |                 | Inner 1RB Left  | 23.08                | / | / | 24.14     | / | / | <=30 | Pass    |
|                                                   |                 | Inner 1RB Right | 23.09                | / | / | 24.15     | / | / | <=30 | Pass    |
|                                                   | 3500.01         | Edge 1RB Left   | 22.67                | / | / | 23.73     | / | / | <=30 | Pass    |
|                                                   |                 | Edge 1RB Right  | 22.63                | / | / | 23.69     | / | / | <=30 | Pass    |
|                                                   |                 | Outer Full      | 23.27                | / | / | 24.33     | / | / | <=30 | Pass    |
|                                                   |                 | Inner Full      | 23.20                | / | / | 24.26     | / | / | <=30 | Pass    |
|                                                   |                 | Inner 1RB Left  | 23.13                | / | / | 24.19     | / | / | <=30 | Pass    |
|                                                   |                 | Inner 1RB Right | 23.20                | / | / | 24.26     | / | / | <=30 | Pass    |
|                                                   | 3499.98         | Edge 1RB Left   | 22.74                | / | / | 23.80     | / | / | <=30 | Pass    |
|                                                   |                 | Edge 1RB Right  | 22.70                | / | / | 23.76     | / | / | <=30 | Pass    |
|                                                   |                 | Outer Full      | 23.29                | / | / | 24.35     | / | / | <=30 | Pass    |
|                                                   |                 | Inner Full      | 23.25                | / | / | 24.31     | / | / | <=30 | Pass    |
|                                                   |                 | Inner 1RB Left  | 23.20                | / | / | 24.26     | / | / | <=30 | Pass    |
|                                                   |                 | Inner 1RB Right | 23.20                | / | / | 24.26     | / | / | <=30 | Pass    |
| DFT-s-OFDM QPSK                                   | 3500.01         | Edge 1RB Left   | 22.64                | / | / | 23.70     | / | / | <=30 | Pass    |
|                                                   |                 | Edge 1RB Right  | 22.61                | / | / | 23.67     | / | / | <=30 | Pass    |
|                                                   |                 | Outer Full      | 23.20                | / | / | 24.26     | / | / | <=30 | Pass    |
|                                                   |                 | Inner Full      | 23.23                | / | / | 24.29     | / | / | <=30 | Pass    |
|                                                   |                 | Inner 1RB Left  | 23.08                | / | / | 24.14     | / | / | <=30 | Pass    |
|                                                   |                 | Inner 1RB Right | 23.08                | / | / | 24.14     | / | / | <=30 | Pass    |
|                                                   | 3500.01         | Edge 1RB Left   | 22.71                | / | / | 23.77     | / | / | <=30 | Pass    |
|                                                   |                 | Edge 1RB Right  | 22.64                | / | / | 23.70     | / | / | <=30 | Pass    |
|                                                   |                 | Outer Full      | 23.29                | / | / | 24.35     | / | / | <=30 | Pass    |
|                                                   |                 | Inner Full      | 23.20                | / | / | 24.26     | / | / | <=30 | Pass    |
|                                                   |                 | Inner 1RB Left  | 23.13                | / | / | 24.19     | / | / | <=30 | Pass    |
|                                                   |                 | Inner 1RB Right | 23.14                | / | / | 24.20     | / | / | <=30 | Pass    |
|                                                   | 3499.98         | Edge 1RB Left   | 22.69                | / | / | 23.75     | / | / | <=30 | Pass    |
|                                                   |                 | Edge 1RB Right  | 22.69                | / | / | 23.75     | / | / | <=30 | Pass    |
|                                                   |                 | Outer Full      | 23.24                | / | / | 24.30     | / | / | <=30 | Pass    |
|                                                   |                 | Inner Full      | 23.24                | / | / | 24.30     | / | / | <=30 | Pass    |
|                                                   |                 | Inner 1RB Left  | 23.14                | / | / | 24.20     | / | / | <=30 | Pass    |
|                                                   |                 | Inner 1RB Right | 23.20                | / | / | 24.26     | / | / | <=30 | Pass    |

|                    |         |                 |       |   |   |       |   |   |      |      |
|--------------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
| DFT-s-OFDM 16 QAM  | 3500.01 | Edge 1RB Left   | 22.64 | / | / | 23.70 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 22.62 | / | / | 23.68 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 23.31 | / | / | 24.37 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.15 | / | / | 24.21 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.11 | / | / | 24.17 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.09 | / | / | 24.15 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge 1RB Left   | 22.85 | / | / | 23.91 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 22.87 | / | / | 23.93 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 23.28 | / | / | 24.34 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.33 | / | / | 24.39 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.31 | / | / | 24.37 | / | / | <=30 | Pass |
|                    | 3499.98 | Edge 1RB Left   | 22.82 | / | / | 23.88 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 22.78 | / | / | 23.84 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 23.31 | / | / | 24.37 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.27 | / | / | 24.33 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.35 | / | / | 24.41 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.33 | / | / | 24.39 | / | / | <=30 | Pass |
| DFT-s-OFDM 64 QAM  | 3500.01 | Edge 1RB Left   | 22.59 | / | / | 23.65 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 22.60 | / | / | 23.66 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 23.24 | / | / | 24.30 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.21 | / | / | 24.27 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.21 | / | / | 24.27 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.22 | / | / | 24.28 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge 1RB Left   | 22.77 | / | / | 23.83 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 22.72 | / | / | 23.78 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 23.38 | / | / | 24.44 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.26 | / | / | 24.32 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.29 | / | / | 24.35 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.30 | / | / | 24.36 | / | / | <=30 | Pass |
|                    | 3499.98 | Edge 1RB Left   | 22.74 | / | / | 23.80 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 22.71 | / | / | 23.77 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 23.28 | / | / | 24.34 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.31 | / | / | 24.37 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 23.29 | / | / | 24.35 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 23.30 | / | / | 24.36 | / | / | <=30 | Pass |
| DFT-s-OFDM 256 QAM | 3500.01 | Edge 1RB Left   | 21.60 | / | / | 22.66 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 21.62 | / | / | 22.68 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 21.73 | / | / | 22.79 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 21.73 | / | / | 22.79 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 21.53 | / | / | 22.59 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 21.55 | / | / | 22.61 | / | / | <=30 | Pass |
|                    | 3500.01 | Edge 1RB Left   | 21.65 | / | / | 22.71 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 21.60 | / | / | 22.66 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 21.69 | / | / | 22.75 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 21.74 | / | / | 22.80 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 21.65 | / | / | 22.71 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 21.62 | / | / | 22.68 | / | / | <=30 | Pass |
|                    | 3499.98 | Edge 1RB Left   | 21.65 | / | / | 22.71 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 21.67 | / | / | 22.73 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 21.79 | / | / | 22.85 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 21.75 | / | / | 22.81 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Left  | 21.64 | / | / | 22.70 | / | / | <=30 | Pass |
|                    |         | Inner 1RB Right | 21.58 | / | / | 22.64 | / | / | <=30 | Pass |
| CP-OFDM QPSK       | 3500.01 | Edge 1RB Left   | 22.61 | / | / | 23.67 | / | / | <=30 | Pass |
|                    |         | Edge 1RB Right  | 22.68 | / | / | 23.74 | / | / | <=30 | Pass |
|                    |         | Outer Full      | 23.22 | / | / | 24.28 | / | / | <=30 | Pass |
|                    |         | Inner Full      | 23.22 | / | / | 24.28 | / | / | <=30 | Pass |



|                 |         |                 |       |   |   |       |   |   |      |      |
|-----------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                 |         | Inner 1RB Left  | 23.13 | / | / | 24.19 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 23.08 | / | / | 24.14 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge 1RB Left   | 22.67 | / | / | 23.73 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 22.68 | / | / | 23.74 | / | / | <=30 | Pass |
|                 |         | Outer Full      | 23.27 | / | / | 24.33 | / | / | <=30 | Pass |
|                 |         | Inner Full      | 23.28 | / | / | 24.34 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 23.27 | / | / | 24.33 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 23.09 | / | / | 24.15 | / | / | <=30 | Pass |
|                 | 3499.98 | Edge 1RB Left   | 22.74 | / | / | 23.80 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 22.61 | / | / | 23.67 | / | / | <=30 | Pass |
|                 |         | Outer Full      | 23.28 | / | / | 24.34 | / | / | <=30 | Pass |
|                 |         | Inner Full      | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 23.27 | / | / | 24.33 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
| CP-OFDM 16 QAM  | 3500.01 | Edge 1RB Left   | 22.67 | / | / | 23.73 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 22.61 | / | / | 23.67 | / | / | <=30 | Pass |
|                 |         | Outer Full      | 23.19 | / | / | 24.25 | / | / | <=30 | Pass |
|                 |         | Inner Full      | 23.18 | / | / | 24.24 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 23.22 | / | / | 24.28 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 23.19 | / | / | 24.25 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge 1RB Left   | 22.77 | / | / | 23.83 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 22.76 | / | / | 23.82 | / | / | <=30 | Pass |
|                 |         | Outer Full      | 23.30 | / | / | 24.36 | / | / | <=30 | Pass |
|                 |         | Inner Full      | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 23.27 | / | / | 24.33 | / | / | <=30 | Pass |
|                 | 3499.98 | Edge 1RB Left   | 22.75 | / | / | 23.81 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 22.59 | / | / | 23.65 | / | / | <=30 | Pass |
|                 |         | Outer Full      | 23.26 | / | / | 24.32 | / | / | <=30 | Pass |
|                 |         | Inner Full      | 23.25 | / | / | 24.31 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 23.24 | / | / | 24.30 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 23.19 | / | / | 24.25 | / | / | <=30 | Pass |
| CP-OFDM 64 QAM  | 3500.01 | Edge 1RB Left   | 22.77 | / | / | 23.83 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 22.78 | / | / | 23.84 | / | / | <=30 | Pass |
|                 |         | Outer Full      | 22.75 | / | / | 23.81 | / | / | <=30 | Pass |
|                 |         | Inner Full      | 22.73 | / | / | 23.79 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 22.75 | / | / | 23.81 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 22.75 | / | / | 23.81 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge 1RB Left   | 22.83 | / | / | 23.89 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 22.80 | / | / | 23.86 | / | / | <=30 | Pass |
|                 |         | Outer Full      | 22.76 | / | / | 23.82 | / | / | <=30 | Pass |
|                 |         | Inner Full      | 22.74 | / | / | 23.80 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 22.79 | / | / | 23.85 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 22.79 | / | / | 23.85 | / | / | <=30 | Pass |
|                 | 3499.98 | Edge 1RB Left   | 22.84 | / | / | 23.90 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 22.77 | / | / | 23.83 | / | / | <=30 | Pass |
|                 |         | Outer Full      | 22.77 | / | / | 23.83 | / | / | <=30 | Pass |
|                 |         | Inner Full      | 22.71 | / | / | 23.77 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 22.80 | / | / | 23.86 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 22.84 | / | / | 23.90 | / | / | <=30 | Pass |
| CP-OFDM 256 QAM | 3500.01 | Edge 1RB Left   | 19.67 | / | / | 20.73 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 19.63 | / | / | 20.69 | / | / | <=30 | Pass |
|                 |         | Outer Full      | 19.73 | / | / | 20.79 | / | / | <=30 | Pass |
|                 |         | Inner Full      | 19.72 | / | / | 20.78 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Left  | 19.64 | / | / | 20.70 | / | / | <=30 | Pass |
|                 |         | Inner 1RB Right | 19.68 | / | / | 20.74 | / | / | <=30 | Pass |
|                 | 3500.01 | Edge 1RB Left   | 19.62 | / | / | 20.68 | / | / | <=30 | Pass |
|                 |         | Edge 1RB Right  | 19.64 | / | / | 20.70 | / | / | <=30 | Pass |

|                                                                                 |         |                 |       |   |   |       |   |   |      |      |
|---------------------------------------------------------------------------------|---------|-----------------|-------|---|---|-------|---|---|------|------|
|                                                                                 |         | Outer Full      | 19.75 | / | / | 20.81 | / | / | <=30 | Pass |
|                                                                                 |         | Inner Full      | 19.77 | / | / | 20.83 | / | / | <=30 | Pass |
|                                                                                 |         | Inner_1RB_Left  | 19.59 | / | / | 20.65 | / | / | <=30 | Pass |
|                                                                                 |         | Inner_1RB_Right | 19.60 | / | / | 20.66 | / | / | <=30 | Pass |
|                                                                                 | 3499.98 | Edge_1RB_Left   | 19.69 | / | / | 20.75 | / | / | <=30 | Pass |
|                                                                                 |         | Edge_1RB_Right  | 19.55 | / | / | 20.61 | / | / | <=30 | Pass |
|                                                                                 |         | Outer Full      | 19.76 | / | / | 20.82 | / | / | <=30 | Pass |
|                                                                                 |         | Inner Full      | 19.79 | / | / | 20.85 | / | / | <=30 | Pass |
|                                                                                 |         | Inner_1RB_Left  | 19.57 | / | / | 20.63 | / | / | <=30 | Pass |
|                                                                                 |         | Inner_1RB_Right | 19.63 | / | / | 20.69 | / | / | <=30 | Pass |
| Note1: Antenna Gain: Ant1: 1.06dBi;<br>Note2: EIRP=Conducted Power+Antenna Gain |         |                 |       |   |   |       |   |   |      |      |

## 2. Frequency Stability

### 2.1 30k\_SISO\_20MHz

#### 2.1.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 20MHz |                 |               |            |       |                  |                       |                |         |
|----------------------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                                   | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                              |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK                         | 3500.01         | Outer_Full    | 20         | LV    | -33.00           | -0.0094               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               |            | HV    | -11.90           | -0.0034               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -30        | NV    | -31.00           | -0.0089               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -20        | NV    | -17.00           | -0.0049               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -10        | NV    | -14.60           | -0.0042               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 0          | NV    | 7.00             | 0.0020                | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 10         | NV    | -20.30           | -0.0058               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 20         | NV    | -10.10           | -0.0029               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 30         | NV    | -12.90           | -0.0037               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 40         | NV    | -25.10           | -0.0072               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                              | 3500.01         | Outer_Full    | 20         | LV    | -18.90           | -0.0054               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               |            | HV    | -15.00           | -0.0043               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -30        | NV    | 5.60             | 0.0016                | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -20        | NV    | -12.50           | -0.0036               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -10        | NV    | -16.50           | -0.0047               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 0          | NV    | -19.70           | -0.0056               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 10         | NV    | -32.70           | -0.0093               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 20         | NV    | -19.70           | -0.0056               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 30         | NV    | -8.00            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 40         | NV    | -30.40           | -0.0087               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM                            | 3500.01         | Outer_Full    | 20         | LV    | 3.80             | 0.0011                | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               |            | HV    | -13.40           | -0.0038               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -30        | NV    | -40.10           | -0.0115               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -20        | NV    | -29.40           | -0.0084               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -10        | NV    | -24.80           | -0.0071               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 0          | NV    | -27.80           | -0.0079               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 10         | NV    | -12.20           | -0.0035               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 20         | NV    | -12.20           | -0.0035               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 30         | NV    | -7.90            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 40         | NV    | -21.10           | -0.0060               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 20         | LV    | -17.20           | -0.0049               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               |            | HV    | -17.20           | -0.0049               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -30        | NV    | -17.20           | -0.0049               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -20        | NV    | -17.20           | -0.0049               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -10        | NV    | -17.20           | -0.0049               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 0          | NV    | -17.20           | -0.0049               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 10         | NV    | -17.20           | -0.0049               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 20         | NV    | -17.20           | -0.0049               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 30         | NV    | -17.20           | -0.0049               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 40         | NV    | -17.20           | -0.0049               | >=-2.5 & <=2.5 | Pass    |



|                    |         |            |     |    |        |         |                          |      |
|--------------------|---------|------------|-----|----|--------|---------|--------------------------|------|
| DFT-s-OFDM 64 QAM  | 3500.01 | Outer_Full | 20  | LV | -20.30 | -0.0058 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -24.80 | -0.0071 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -11.00 | -0.0031 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -24.80 | -0.0071 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -28.70 | -0.0082 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -25.00 | -0.0071 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -26.80 | -0.0077 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -29.10 | -0.0083 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -31.00 | -0.0089 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -33.90 | -0.0097 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| DFT-s-OFDM 256 QAM | 3500.01 | Outer_Full | 20  | LV | -16.50 | -0.0047 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -6.50  | -0.0019 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -32.10 | -0.0092 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -24.30 | -0.0069 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -12.80 | -0.0037 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -13.70 | -0.0039 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -26.60 | -0.0076 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -11.00 | -0.0031 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -19.80 | -0.0057 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -12.30 | -0.0035 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM QPSK       | 3500.01 | Outer_Full | 20  | LV | -13.00 | -0.0037 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -8.70  | -0.0025 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -23.10 | -0.0066 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -27.60 | -0.0079 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -20.00 | -0.0057 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -14.00 | -0.0040 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -8.90  | -0.0025 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -26.50 | -0.0076 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -27.10 | -0.0077 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -23.00 | -0.0066 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 16 QAM     | 3500.01 | Outer_Full | 20  | LV | -11.60 | -0.0033 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -16.00 | -0.0046 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -1.60  | -0.0005 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -28.30 | -0.0081 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -16.90 | -0.0048 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -32.40 | -0.0093 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -8.70  | -0.0025 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -4.00  | -0.0011 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -39.30 | -0.0112 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | 2.60   | 0.0007  | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 64 QAM     | 3500.01 | Outer_Full | 20  | LV | -3.60  | -0.0010 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -17.30 | -0.0049 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -12.40 | -0.0035 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -41.00 | -0.0117 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -20.00 | -0.0057 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -20.60 | -0.0059 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -17.20 | -0.0049 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -15.50 | -0.0044 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -20.10 | -0.0057 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -26.70 | -0.0076 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 256 QAM    | 3500.01 | Outer_Full | 20  | LV | -38.80 | -0.0111 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -21.20 | -0.0061 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -10.40 | -0.0030 | $\geq -2.5$ & $\leq 2.5$ | Pass |



|  |  |  |     |    |        |         |                          |      |
|--|--|--|-----|----|--------|---------|--------------------------|------|
|  |  |  | -20 | NV | 2.60   | 0.0007  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|  |  |  | -10 | NV | -30.00 | -0.0086 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|  |  |  | 0   | NV | -15.50 | -0.0044 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|  |  |  | 10  | NV | -4.90  | -0.0014 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|  |  |  | 20  | NV | -20.80 | -0.0059 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|  |  |  | 30  | NV | -16.30 | -0.0047 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|  |  |  | 40  | NV | -27.20 | -0.0078 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|  |  |  | 50  | NV | -18.10 | -0.0052 | $\geq -2.5$ & $\leq 2.5$ | Pass |

## 2.2 30k\_SISO\_30MHz

### 2.2.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 30MHz |                 |               |            |       |                  |                       |                          |         |
|----------------------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|--------------------------|---------|
| Modulation                                   | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                          | Verdict |
|                                              |                 |               |            |       |                  | Result                | Limit                    |         |
| DFT-s-OFDM PI/2 BPSK                         | 3500.01         | Outer_Full    | 20         | LV    | -9.80            | -0.0028               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               |            | HV    | -13.40           | -0.0038               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -30        | NV    | -17.90           | -0.0051               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -20        | NV    | -5.00            | -0.0014               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -10        | NV    | -28.90           | -0.0083               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 0          | NV    | -31.80           | -0.0091               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 10         | NV    | -8.30            | -0.0024               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 20         | NV    | -25.30           | -0.0072               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 30         | NV    | -10.30           | -0.0029               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 40         | NV    | -21.90           | -0.0063               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
| DFT-s-OFDM QPSK                              | 3500.01         | Outer_Full    | 20         | LV    | -22.50           | -0.0064               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               |            | HV    | -18.40           | -0.0053               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -30        | NV    | -33.90           | -0.0097               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -20        | NV    | -11.20           | -0.0032               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -10        | NV    | -23.70           | -0.0068               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 0          | NV    | -26.40           | -0.0075               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 10         | NV    | -22.40           | -0.0064               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 20         | NV    | -9.70            | -0.0028               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 30         | NV    | -14.50           | -0.0041               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 40         | NV    | -17.40           | -0.0050               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
| DFT-s-OFDM 16 QAM                            | 3500.01         | Outer_Full    | 20         | LV    | -30.50           | -0.0087               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               |            | HV    | -37.40           | -0.0107               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -30        | NV    | -26.30           | -0.0075               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -20        | NV    | -15.50           | -0.0044               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -10        | NV    | -7.00            | -0.0020               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 0          | NV    | -32.70           | -0.0093               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 10         | NV    | -24.20           | -0.0069               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 20         | NV    | -30.60           | -0.0087               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 30         | NV    | 14.90            | 0.0043                | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 40         | NV    | -16.00           | -0.0046               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
| DFT-s-OFDM 64 QAM                            | 3500.01         | Outer_Full    | 20         | LV    | -15.60           | -0.0045               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               |            | HV    | -37.60           | -0.0107               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -30        | NV    | -14.50           | -0.0041               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -20        | NV    | -14.80           | -0.0042               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -10        | NV    | -11.70           | -0.0033               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 0          | NV    | -21.70           | -0.0062               | $\geq -2.5$ & $\leq 2.5$ | Pass    |

|                    |         |            |     |    |        |         |                          |      |
|--------------------|---------|------------|-----|----|--------|---------|--------------------------|------|
|                    |         |            | 10  | NV | -14.00 | -0.0040 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -24.60 | -0.0070 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -20.30 | -0.0058 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -13.00 | -0.0037 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 50  | NV | -22.30 | -0.0064 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| DFT-s-OFDM 256 QAM | 3500.01 | Outer_Full | 20  | LV | -13.20 | -0.0038 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -23.20 | -0.0066 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -25.70 | -0.0073 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -20.20 | -0.0058 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -19.60 | -0.0056 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -9.70  | -0.0028 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -14.40 | -0.0041 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -14.20 | -0.0041 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -15.30 | -0.0044 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -12.60 | -0.0036 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 50  | NV | -31.10 | -0.0089 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     |    |        |         |                          |      |
| CP-OFDM QPSK       | 3500.01 | Outer_Full | 20  | LV | -20.20 | -0.0058 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -16.10 | -0.0046 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -26.20 | -0.0075 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -18.20 | -0.0052 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -8.30  | -0.0024 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -33.20 | -0.0095 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -16.70 | -0.0048 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -29.40 | -0.0084 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -33.70 | -0.0096 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -18.00 | -0.0051 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 50  | NV | -9.90  | -0.0028 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     |    |        |         |                          |      |
| CP-OFDM 16 QAM     | 3500.01 | Outer_Full | 20  | LV | -34.70 | -0.0099 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -36.20 | -0.0103 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -8.90  | -0.0025 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -24.20 | -0.0069 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -5.70  | -0.0016 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -17.30 | -0.0049 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -32.80 | -0.0094 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -33.10 | -0.0095 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -28.50 | -0.0081 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -16.20 | -0.0046 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 50  | NV | -28.00 | -0.0080 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     |    |        |         |                          |      |
| CP-OFDM 64 QAM     | 3500.01 | Outer_Full | 20  | LV | -23.40 | -0.0067 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -5.60  | -0.0016 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -17.50 | -0.0050 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -19.90 | -0.0057 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -23.50 | -0.0067 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -9.20  | -0.0026 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -9.50  | -0.0027 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -30.10 | -0.0086 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -34.40 | -0.0098 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -12.20 | -0.0035 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 50  | NV | -10.20 | -0.0029 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     |    |        |         |                          |      |
| CP-OFDM 256 QAM    | 3500.01 | Outer_Full | 20  | LV | -20.90 | -0.0060 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -13.30 | -0.0038 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -2.60  | -0.0007 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -15.20 | -0.0043 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -11.50 | -0.0033 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -29.20 | -0.0083 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -19.00 | -0.0054 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -27.00 | -0.0077 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -20.30 | -0.0058 | $\geq -2.5$ & $\leq 2.5$ | Pass |



|  |  |  |    |    |        |         |                          |      |
|--|--|--|----|----|--------|---------|--------------------------|------|
|  |  |  | 40 | NV | -13.20 | -0.0038 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|  |  |  | 50 | NV | -23.40 | -0.0067 | $\geq -2.5$ & $\leq 2.5$ | Pass |

## 2.3 30k\_SISO\_40MHz

### 2.3.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 40MHz |                 |               |            |       |                  |                       |                          |         |
|----------------------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|--------------------------|---------|
| Modulation                                   | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                          | Verdict |
|                                              |                 |               |            |       |                  | Result                | Limit                    |         |
| DFT-s-OFDM PI/2 BPSK                         | 3500.01         | Outer_Full    | 20         | LV    | -28.70           | -0.0082               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               |            | HV    | -9.60            | -0.0027               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -30        | NV    | -26.90           | -0.0077               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -20        | NV    | -26.60           | -0.0076               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -10        | NV    | -11.50           | -0.0033               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 0          | NV    | -24.00           | -0.0069               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 10         | NV    | -20.70           | -0.0059               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 20         | NV    | -23.00           | -0.0066               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 30         | NV    | -19.70           | -0.0056               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 40         | NV    | 4.50             | 0.0013                | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 50         | NV    | -28.50           | -0.0081               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
| DFT-s-OFDM QPSK                              | 3500.01         | Outer_Full    | 20         | LV    | -34.50           | -0.0099               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               |            | HV    | -32.80           | -0.0094               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -30        | NV    | -20.40           | -0.0058               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -20        | NV    | -29.10           | -0.0083               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -10        | NV    | -15.20           | -0.0043               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 0          | NV    | -24.00           | -0.0069               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 10         | NV    | -23.20           | -0.0066               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 20         | NV    | -27.20           | -0.0078               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 30         | NV    | -35.30           | -0.0101               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 40         | NV    | -31.80           | -0.0091               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 50         | NV    | -9.20            | -0.0026               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
| DFT-s-OFDM 16 QAM                            | 3500.01         | Outer_Full    | 20         | LV    | -5.60            | -0.0016               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               |            | HV    | -9.40            | -0.0027               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -30        | NV    | -22.80           | -0.0065               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -20        | NV    | -23.80           | -0.0068               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -10        | NV    | -29.00           | -0.0083               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 0          | NV    | -27.40           | -0.0078               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 10         | NV    | -14.80           | -0.0042               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 20         | NV    | -21.10           | -0.0060               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 30         | NV    | -20.60           | -0.0059               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 40         | NV    | -20.60           | -0.0059               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 50         | NV    | -23.90           | -0.0068               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
| DFT-s-OFDM 64 QAM                            | 3500.01         | Outer_Full    | 20         | LV    | -22.50           | -0.0064               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               |            | HV    | -32.70           | -0.0093               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -30        | NV    | -18.10           | -0.0052               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -20        | NV    | -34.50           | -0.0099               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -10        | NV    | -22.10           | -0.0063               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 0          | NV    | -29.00           | -0.0083               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 10         | NV    | -15.10           | -0.0043               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 20         | NV    | -13.50           | -0.0039               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 30         | NV    | -33.10           | -0.0095               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 40         | NV    | -22.60           | -0.0065               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 50         | NV    | -20.90           | -0.0060               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
| DFT-s-OFDM 256 QAM                           | 3500.01         | Outer_Full    | 20         | LV    | -15.30           | -0.0044               | $\geq -2.5$ & $\leq 2.5$ | Pass    |

|                 |         |            |     |    |        |         |                          |      |
|-----------------|---------|------------|-----|----|--------|---------|--------------------------|------|
|                 |         |            |     | HV | -18.80 | -0.0054 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -27.20 | -0.0078 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | 2.60   | 0.0007  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -13.80 | -0.0039 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -30.20 | -0.0086 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -16.80 | -0.0048 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -8.70  | -0.0025 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -16.40 | -0.0047 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -30.70 | -0.0088 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -35.10 | -0.0100 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM QPSK    | 3500.01 | Outer_Full | 20  | LV | -14.90 | -0.0043 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | -16.30 | -0.0047 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -31.70 | -0.0091 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -15.60 | -0.0045 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -12.20 | -0.0035 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -23.40 | -0.0067 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -10.10 | -0.0029 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -28.50 | -0.0081 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -35.10 | -0.0100 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -33.70 | -0.0096 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 16 QAM  | 3500.01 | Outer_Full | 20  | LV | -28.20 | -0.0081 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | -20.20 | -0.0058 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -12.50 | -0.0036 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -19.50 | -0.0056 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -4.20  | -0.0012 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -9.90  | -0.0028 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -24.50 | -0.0070 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -14.80 | -0.0042 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -37.80 | -0.0108 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -18.80 | -0.0054 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 64 QAM  | 3500.01 | Outer_Full | 20  | LV | -17.30 | -0.0049 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | -10.90 | -0.0031 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -14.60 | -0.0042 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -12.00 | -0.0034 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -21.90 | -0.0063 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -21.50 | -0.0061 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -5.80  | -0.0017 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -26.10 | -0.0075 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -24.50 | -0.0070 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -35.00 | -0.0100 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 256 QAM | 3500.01 | Outer_Full | 20  | LV | -8.80  | -0.0025 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | -24.80 | -0.0071 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -36.10 | -0.0103 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -28.90 | -0.0083 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -14.60 | -0.0042 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -21.20 | -0.0061 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -11.30 | -0.0032 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -13.60 | -0.0039 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -17.30 | -0.0049 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -16.50 | -0.0047 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -10.60 | -0.0030 | $\geq -2.5$ & $\leq 2.5$ | Pass |

2.4 30k\_SISO\_50MHz

## 2.4.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 50MHz |                 |               |            |       |                  |                       |                |         |
|----------------------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                                   | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                              |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK                         | 3500.01         | Outer_Full    | 20         | LV    | -29.40           | -0.0084               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               |            | HV    | -19.20           | -0.0055               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -30        | NV    | -22.40           | -0.0064               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -20        | NV    | -10.20           | -0.0029               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -10        | NV    | -6.90            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 0          | NV    | -28.90           | -0.0083               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 10         | NV    | -21.10           | -0.0060               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 20         | NV    | -9.10            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 30         | NV    | -18.10           | -0.0052               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 40         | NV    | -7.60            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 50         | NV    | -23.10           | -0.0066               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                              | 3500.01         | Outer_Full    | 20         | LV    | -17.20           | -0.0049               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               |            | HV    | -7.80            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -30        | NV    | -12.90           | -0.0037               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -20        | NV    | -21.80           | -0.0062               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -10        | NV    | -27.60           | -0.0079               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 0          | NV    | -18.50           | -0.0053               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 10         | NV    | -35.70           | -0.0102               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 20         | NV    | -27.10           | -0.0077               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 30         | NV    | -2.50            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 40         | NV    | -36.80           | -0.0105               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 50         | NV    | -36.90           | -0.0105               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM                            | 3500.01         | Outer_Full    | 20         | LV    | 8.40             | 0.0024                | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               |            | HV    | -21.40           | -0.0061               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -30        | NV    | -32.20           | -0.0092               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -20        | NV    | -11.60           | -0.0033               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -10        | NV    | -9.90            | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 0          | NV    | -12.40           | -0.0035               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 10         | NV    | -16.10           | -0.0046               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 20         | NV    | -18.60           | -0.0053               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 30         | NV    | -14.90           | -0.0043               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 40         | NV    | -16.10           | -0.0046               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 50         | NV    | -24.30           | -0.0069               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 64 QAM                            | 3500.01         | Outer_Full    | 20         | LV    | -3.70            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               |            | HV    | -9.30            | -0.0027               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -30        | NV    | 14.10            | 0.0040                | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -20        | NV    | -16.10           | -0.0046               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -10        | NV    | -30.80           | -0.0088               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 0          | NV    | 14.10            | 0.0040                | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 10         | NV    | -37.00           | -0.0106               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 20         | NV    | -21.50           | -0.0061               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 30         | NV    | -25.00           | -0.0071               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 40         | NV    | -21.50           | -0.0061               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 50         | NV    | -20.70           | -0.0059               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 256 QAM                           | 3500.01         | Outer_Full    | 20         | LV    | -15.90           | -0.0045               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               |            | HV    | -13.20           | -0.0038               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -30        | NV    | -13.60           | -0.0039               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -20        | NV    | -8.80            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -10        | NV    | -20.00           | -0.0057               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 0          | NV    | -32.00           | -0.0091               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 10         | NV    | -21.40           | -0.0061               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 20         | NV    | -33.10           | -0.0095               | >=-2.5 & <=2.5 | Pass    |

|                 |         |            |     |    |        |         |                          |      |
|-----------------|---------|------------|-----|----|--------|---------|--------------------------|------|
|                 |         |            | 30  | NV | -20.80 | -0.0059 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -21.60 | -0.0062 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -27.50 | -0.0079 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM QPSK    | 3500.01 | Outer_Full | 20  | LV | -13.40 | -0.0038 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | -19.00 | -0.0054 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -9.50  | -0.0027 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -38.50 | -0.0110 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -25.50 | -0.0073 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -16.80 | -0.0048 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -17.70 | -0.0051 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -26.20 | -0.0075 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -28.80 | -0.0082 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -3.10  | -0.0009 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -13.50 | -0.0039 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 16 QAM  | 3500.01 | Outer_Full | 20  | LV | -38.10 | -0.0109 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | -28.80 | -0.0082 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -23.60 | -0.0067 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -29.50 | -0.0084 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -20.10 | -0.0057 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -25.60 | -0.0073 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -15.20 | -0.0043 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -30.20 | -0.0086 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -18.80 | -0.0054 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -23.20 | -0.0066 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -28.20 | -0.0081 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 64 QAM  | 3500.01 | Outer_Full | 20  | LV | -19.50 | -0.0056 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | -28.20 | -0.0081 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -32.30 | -0.0092 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -18.30 | -0.0052 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -20.40 | -0.0058 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -19.90 | -0.0057 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -21.80 | -0.0062 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -20.40 | -0.0058 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -17.60 | -0.0050 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -24.90 | -0.0071 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -20.70 | -0.0059 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 256 QAM | 3500.01 | Outer_Full | 20  | LV | -20.60 | -0.0059 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | -20.50 | -0.0059 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -18.90 | -0.0054 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -27.00 | -0.0077 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -22.20 | -0.0063 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -13.30 | -0.0038 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -25.30 | -0.0072 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -29.30 | -0.0084 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -20.70 | -0.0059 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -20.70 | -0.0059 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -12.40 | -0.0035 | $\geq -2.5$ & $\leq 2.5$ | Pass |

## 2.5 30k\_SISO\_60MHz

### 2.5.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 60MHz |                 |               |            |       |                  |                       |       |         |
|----------------------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|-------|---------|
| Modulation                                   | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |       | Verdict |
|                                              |                 |               |            |       |                  | Result                | Limit |         |



|                      |         |            |     |    |        |         |                          |      |
|----------------------|---------|------------|-----|----|--------|---------|--------------------------|------|
| DFT-s-OFDM PI/2 BPSK | 3500.01 | Outer_Full | 20  | LV | 2.20   | 0.0006  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            |     | HV | -35.90 | -0.0103 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | -30 | NV | -22.50 | -0.0064 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | -20 | NV | -15.40 | -0.0044 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | -10 | NV | -10.90 | -0.0031 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 0   | NV | -23.90 | -0.0068 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 10  | NV | -16.30 | -0.0047 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 20  | NV | -8.60  | -0.0025 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 30  | NV | -9.60  | -0.0027 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 40  | NV | -18.80 | -0.0054 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| DFT-s-OFDM QPSK      | 3500.01 | Outer_Full | 20  | LV | -21.30 | -0.0061 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            |     | HV | -9.80  | -0.0028 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | -30 | NV | -9.10  | -0.0026 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | -20 | NV | -20.80 | -0.0059 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | -10 | NV | -28.80 | -0.0082 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 0   | NV | -7.80  | -0.0022 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 10  | NV | -5.60  | -0.0016 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 20  | NV | -23.70 | -0.0068 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 30  | NV | -15.10 | -0.0043 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 40  | NV | -6.90  | -0.0020 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| DFT-s-OFDM 16 QAM    | 3500.01 | Outer_Full | 20  | LV | -5.50  | -0.0016 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            |     | HV | -14.40 | -0.0041 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | -30 | NV | -18.60 | -0.0053 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | -20 | NV | -22.40 | -0.0064 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | -10 | NV | -30.40 | -0.0087 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 0   | NV | 7.90   | 0.0023  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 10  | NV | -25.50 | -0.0073 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 20  | NV | -22.30 | -0.0064 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 30  | NV | -4.30  | -0.0012 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 40  | NV | -15.60 | -0.0045 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| DFT-s-OFDM 64 QAM    | 3500.01 | Outer_Full | 20  | LV | -22.00 | -0.0063 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            |     | HV | -40.40 | -0.0115 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | -30 | NV | -12.70 | -0.0036 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | -20 | NV | -8.80  | -0.0025 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | -10 | NV | -11.50 | -0.0033 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 0   | NV | 8.30   | 0.0024  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 10  | NV | -17.60 | -0.0050 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 20  | NV | -6.80  | -0.0019 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 30  | NV | -11.40 | -0.0033 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 40  | NV | -19.90 | -0.0057 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| DFT-s-OFDM 256 QAM   | 3500.01 | Outer_Full | 20  | LV | -18.70 | -0.0053 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            |     | HV | -16.80 | -0.0048 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | -30 | NV | -25.30 | -0.0072 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | -20 | NV | -1.70  | -0.0005 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | -10 | NV | -28.40 | -0.0081 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 0   | NV | -16.90 | -0.0048 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 10  | NV | -10.90 | -0.0031 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 20  | NV | -11.00 | -0.0031 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 30  | NV | -28.50 | -0.0081 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | 40  | NV | -17.10 | -0.0049 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM QPSK         | 3500.01 | Outer_Full | 20  | LV | -20.80 | -0.0059 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            |     | HV | -12.70 | -0.0036 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                      |         |            | -30 | NV | -30.90 | -0.0088 | $\geq -2.5$ & $\leq 2.5$ | Pass |

|                 |         |            |     |    |        |         |                          |      |
|-----------------|---------|------------|-----|----|--------|---------|--------------------------|------|
|                 |         |            | -20 | NV | -31.40 | -0.0090 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -22.20 | -0.0063 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -1.60  | -0.0005 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -20.80 | -0.0059 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -23.60 | -0.0067 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -39.00 | -0.0111 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -22.30 | -0.0064 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -3.20  | -0.0009 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 16 QAM  | 3500.01 | Outer_Full | 20  | LV | -18.70 | -0.0053 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | -16.10 | -0.0046 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -15.80 | -0.0045 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -25.90 | -0.0074 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -11.90 | -0.0034 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -23.10 | -0.0066 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -10.40 | -0.0030 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -20.00 | -0.0057 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -21.60 | -0.0062 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -19.90 | -0.0057 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 64 QAM  | 3500.01 | Outer_Full | 20  | LV | -6.30  | -0.0018 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | -22.30 | -0.0064 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -24.20 | -0.0069 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -1.60  | -0.0005 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -27.00 | -0.0077 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -14.90 | -0.0043 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -19.60 | -0.0056 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -23.30 | -0.0067 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -10.80 | -0.0031 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -15.10 | -0.0043 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 256 QAM | 3500.01 | Outer_Full | 20  | LV | -26.60 | -0.0076 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | -30.50 | -0.0087 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -13.00 | -0.0037 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -18.50 | -0.0053 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -15.50 | -0.0044 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -29.60 | -0.0085 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -29.30 | -0.0084 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -20.30 | -0.0058 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -24.30 | -0.0069 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -16.70 | -0.0048 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -21.90 | -0.0063 | $\geq -2.5$ & $\leq 2.5$ | Pass |

## 2.6 30k\_SISO\_70MHz

### 2.6.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 70MHz |                 |               |            |       |                  |                       |                          |         |
|----------------------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|--------------------------|---------|
| Modulation                                   | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                          | Verdict |
|                                              |                 |               |            |       |                  | Result                | Limit                    |         |
| DFT-s-OFDM PI/2 BPSK                         | 3500.01         | Outer_Full    | 20         | LV    | -23.30           | -0.0067               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               |            | HV    | -17.40           | -0.0050               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -30        | NV    | -22.90           | -0.0065               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -20        | NV    | -25.00           | -0.0071               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -10        | NV    | -15.10           | -0.0043               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 0          | NV    | -27.50           | -0.0079               | $\geq -2.5$ & $\leq 2.5$ | Pass    |

|                    |         |            |     |    |        |         |                          |      |
|--------------------|---------|------------|-----|----|--------|---------|--------------------------|------|
|                    |         |            | 10  | NV | -4.10  | -0.0012 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -12.60 | -0.0036 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -14.30 | -0.0041 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -32.60 | -0.0093 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 50  | NV | -21.70 | -0.0062 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| DFT-s-OFDM QPSK    | 3500.01 | Outer_Full | 20  | LV | -31.60 | -0.0090 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -24.40 | -0.0070 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -25.60 | -0.0073 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -21.10 | -0.0060 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -23.20 | -0.0066 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -5.30  | -0.0015 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -24.30 | -0.0069 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -23.00 | -0.0066 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -18.20 | -0.0052 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -4.60  | -0.0013 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 50  | NV | -15.80 | -0.0045 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     |    |        |         |                          |      |
| DFT-s-OFDM 16 QAM  | 3500.01 | Outer_Full | 20  | LV | -17.60 | -0.0050 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -6.50  | -0.0019 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | 14.00  | 0.0040  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -15.80 | -0.0045 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -20.80 | -0.0059 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -12.40 | -0.0035 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -8.10  | -0.0023 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -17.80 | -0.0051 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -11.50 | -0.0033 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -20.60 | -0.0059 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 50  | NV | -27.40 | -0.0078 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     |    |        |         |                          |      |
| DFT-s-OFDM 64 QAM  | 3500.01 | Outer_Full | 20  | LV | -30.30 | -0.0087 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -17.60 | -0.0050 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -20.50 | -0.0059 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -8.20  | -0.0023 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -8.70  | -0.0025 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -18.10 | -0.0052 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -20.90 | -0.0060 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -2.10  | -0.0006 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -30.00 | -0.0086 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -10.40 | -0.0030 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 50  | NV | -18.50 | -0.0053 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     |    |        |         |                          |      |
| DFT-s-OFDM 256 QAM | 3500.01 | Outer_Full | 20  | LV | -27.70 | -0.0079 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -3.90  | -0.0011 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -24.50 | -0.0070 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -16.90 | -0.0048 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -34.40 | -0.0098 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -21.60 | -0.0062 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -6.40  | -0.0018 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -22.30 | -0.0064 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -27.00 | -0.0077 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | 8.20   | 0.0023  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 50  | NV | -11.00 | -0.0031 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     |    |        |         |                          |      |
| CP-OFDM QPSK       | 3500.01 | Outer_Full | 20  | LV | -20.00 | -0.0057 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -26.80 | -0.0077 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -6.20  | -0.0018 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -16.40 | -0.0047 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -20.40 | -0.0058 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -27.10 | -0.0077 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -18.80 | -0.0054 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -7.10  | -0.0020 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -32.10 | -0.0092 | $\geq -2.5$ & $\leq 2.5$ | Pass |

|                 |         |            |     |    |        |         |                |      |
|-----------------|---------|------------|-----|----|--------|---------|----------------|------|
| CP-OFDM 16 QAM  | 3500.01 | Outer_Full | 40  | NV | -36.80 | -0.0105 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 50  | NV | -22.10 | -0.0063 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 20  | LV | -12.90 | -0.0037 | >=-2.5 & <=2.5 | Pass |
|                 |         |            |     | HV | -13.60 | -0.0039 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -30 | NV | -18.20 | -0.0052 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -20 | NV | -12.30 | -0.0035 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -10 | NV | -3.20  | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 0   | NV | -15.20 | -0.0043 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 10  | NV | -42.80 | -0.0122 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 20  | NV | -21.60 | -0.0062 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 30  | NV | -14.90 | -0.0043 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 40  | NV | -16.70 | -0.0048 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 50  | NV | -4.80  | -0.0014 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 64 QAM  | 3500.01 | Outer_Full | 20  | LV | -21.00 | -0.0060 | >=-2.5 & <=2.5 | Pass |
|                 |         |            |     | HV | -2.90  | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -30 | NV | -22.70 | -0.0065 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -20 | NV | -20.30 | -0.0058 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -10 | NV | -1.10  | -0.0003 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 0   | NV | -31.90 | -0.0091 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 10  | NV | -7.60  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 20  | NV | -18.80 | -0.0054 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 30  | NV | -3.80  | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 40  | NV | -6.10  | -0.0017 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 256 QAM | 3500.01 | Outer_Full | 20  | LV | -18.00 | -0.0051 | >=-2.5 & <=2.5 | Pass |
|                 |         |            |     | HV | -30.20 | -0.0086 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -30 | NV | 8.60   | 0.0025  | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -20 | NV | -12.40 | -0.0035 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -10 | NV | -8.20  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 0   | NV | -21.10 | -0.0060 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 10  | NV | -13.40 | -0.0038 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 20  | NV | -24.50 | -0.0070 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 30  | NV | -31.70 | -0.0091 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 40  | NV | -22.30 | -0.0064 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 256 QAM | 3500.01 | Outer_Full | 50  | NV | -29.50 | -0.0084 | >=-2.5 & <=2.5 | Pass |

## 2.7 30k\_SISO\_80MHz

### 2.7.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 80MHz |                 |               |            |       |                  |                       |                |         |
|----------------------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                                   | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                              |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK                         | 3500.01         | Outer_Full    | 20         | LV    | -16.10           | -0.0046               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               |            | HV    | -21.90           | -0.0063               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -30        | NV    | -17.80           | -0.0051               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -20        | NV    | -27.40           | -0.0078               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | -10        | NV    | -6.60            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 0          | NV    | -29.50           | -0.0084               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 10         | NV    | 9.20             | 0.0026                | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 20         | NV    | -9.30            | -0.0027               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 30         | NV    | -28.00           | -0.0080               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               | 40         | NV    | -22.30           | -0.0064               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                              | 3500.01         | Outer_Full    | 20         | NV    | -6.50            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                              |                 |               |            | LV    | -36.90           | -0.0105               | >=-2.5 & <=2.5 | Pass    |



|                    |         |            |     |    |        |         |                          |      |
|--------------------|---------|------------|-----|----|--------|---------|--------------------------|------|
|                    |         |            |     | HV | -42.70 | -0.0122 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -12.50 | -0.0036 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -24.80 | -0.0071 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -35.50 | -0.0101 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -18.30 | -0.0052 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | 14.30  | 0.0041  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -11.70 | -0.0033 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -3.30  | -0.0009 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -27.20 | -0.0078 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 50  | NV | -24.60 | -0.0070 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| DFT-s-OFDM 16 QAM  | 3500.01 | Outer_Full | 20  | LV | -24.50 | -0.0070 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -13.60 | -0.0039 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -18.30 | -0.0052 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -24.60 | -0.0070 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -24.40 | -0.0070 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -22.40 | -0.0064 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -21.30 | -0.0061 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -24.70 | -0.0071 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -12.90 | -0.0037 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -4.80  | -0.0014 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| DFT-s-OFDM 64 QAM  | 3500.01 | Outer_Full | 20  | LV | 7.80   | 0.0022  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -6.20  | -0.0018 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -27.30 | -0.0078 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -13.70 | -0.0039 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -36.30 | -0.0104 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -13.90 | -0.0040 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -0.90  | -0.0003 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -6.40  | -0.0018 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -8.40  | -0.0024 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -23.60 | -0.0067 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| DFT-s-OFDM 256 QAM | 3500.01 | Outer_Full | 20  | LV | -25.10 | -0.0072 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -19.30 | -0.0055 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -1.60  | -0.0005 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | 1.50   | 0.0004  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -7.30  | -0.0021 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -28.50 | -0.0081 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -18.00 | -0.0051 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -27.30 | -0.0078 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -29.70 | -0.0085 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -24.00 | -0.0069 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM QPSK       | 3500.01 | Outer_Full | 20  | LV | -38.20 | -0.0109 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | 7.70   | 0.0022  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -17.60 | -0.0050 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -18.30 | -0.0052 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | 5.30   | 0.0015  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -30.60 | -0.0087 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -31.30 | -0.0089 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -40.20 | -0.0115 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -24.40 | -0.0070 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -1.80  | -0.0005 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 16 QAM     | 3500.01 | Outer_Full | 20  | LV | -41.40 | -0.0118 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -14.30 | -0.0041 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -10.50 | -0.0030 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -3.30  | -0.0009 | $\geq -2.5$ & $\leq 2.5$ | Pass |

|                 |         |            |     |    |        |         |                          |      |
|-----------------|---------|------------|-----|----|--------|---------|--------------------------|------|
|                 |         |            | -10 | NV | -17.00 | -0.0049 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -2.90  | -0.0008 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -19.60 | -0.0056 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -8.20  | -0.0023 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -25.10 | -0.0072 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -8.20  | -0.0023 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -12.60 | -0.0036 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 64 QAM  | 3500.01 | Outer_Full | 20  | LV | -15.90 | -0.0045 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | 6.20   | 0.0018  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -31.30 | -0.0089 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -31.70 | -0.0091 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -2.10  | -0.0006 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -14.50 | -0.0041 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -10.20 | -0.0029 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -16.60 | -0.0047 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -34.20 | -0.0098 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -23.50 | -0.0067 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -15.20 | -0.0043 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 256 QAM | 3500.01 | Outer_Full | 20  | LV | -39.00 | -0.0111 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | -16.40 | -0.0047 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -12.40 | -0.0035 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -8.90  | -0.0025 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -5.00  | -0.0014 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -21.80 | -0.0062 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -11.70 | -0.0033 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | 7.40   | 0.0021  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -7.40  | -0.0021 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -8.70  | -0.0025 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -40.30 | -0.0115 | $\geq -2.5$ & $\leq 2.5$ | Pass |

## 2.8 30k\_SISO\_90MHz

### 2.8.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 90MHz |                 |               |            |       |                  |                       |                          |         |
|----------------------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|--------------------------|---------|
| Modulation                                   | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                          | Verdict |
|                                              |                 |               |            |       |                  | Result                | Limit                    |         |
| DFT-s-OFDM PI/2 BPSK                         | 3500.01         | Outer_Full    | 20         | LV    | 17.70            | 0.0051                | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               |            | HV    | -21.00           | -0.0060               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -30        | NV    | -10.90           | -0.0031               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -20        | NV    | -22.30           | -0.0064               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -10        | NV    | -36.20           | -0.0103               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 0          | NV    | -15.30           | -0.0044               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 10         | NV    | -24.50           | -0.0070               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 20         | NV    | -25.40           | -0.0073               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 30         | NV    | -24.30           | -0.0069               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 40         | NV    | -16.50           | -0.0047               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
| DFT-s-OFDM QPSK                              | 3500.01         | Outer_Full    | 50         | NV    | -30.90           | -0.0088               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 20         | LV    | -10.70           | -0.0031               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               |            | HV    | -8.80            | -0.0025               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -30        | NV    | -24.00           | -0.0069               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -20        | NV    | -34.50           | -0.0099               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | -10        | NV    | -8.30            | -0.0024               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 0          | NV    | -30.00           | -0.0086               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                              |                 |               | 10         | NV    | -31.50           | -0.0090               | $\geq -2.5$ & $\leq 2.5$ | Pass    |



|                    |         |            |     |    |        |         |                          |      |
|--------------------|---------|------------|-----|----|--------|---------|--------------------------|------|
|                    |         |            | 20  | NV | 2.90   | 0.0008  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -15.70 | -0.0045 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -20.60 | -0.0059 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 50  | NV | -16.20 | -0.0046 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| DFT-s-OFDM 16 QAM  | 3500.01 | Outer_Full | 20  | LV | -13.90 | -0.0040 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -31.00 | -0.0089 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -19.90 | -0.0057 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -9.40  | -0.0027 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -25.70 | -0.0073 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -7.80  | -0.0022 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -16.60 | -0.0047 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -26.20 | -0.0075 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -4.60  | -0.0013 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -35.90 | -0.0103 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 50  | NV | -9.70  | -0.0028 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| DFT-s-OFDM 64 QAM  | 3500.01 | Outer_Full | 20  | LV | -16.10 | -0.0046 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -10.70 | -0.0031 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -40.50 | -0.0116 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -15.70 | -0.0045 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -28.00 | -0.0080 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -3.80  | -0.0011 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -36.60 | -0.0105 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -16.40 | -0.0047 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | 6.90   | 0.0020  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -32.60 | -0.0093 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 50  | NV | -11.20 | -0.0032 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| DFT-s-OFDM 256 QAM | 3500.01 | Outer_Full | 20  | LV | -24.80 | -0.0071 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -27.00 | -0.0077 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -23.80 | -0.0068 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -21.60 | -0.0062 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -34.70 | -0.0099 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -7.80  | -0.0022 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -12.60 | -0.0036 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -38.70 | -0.0111 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -4.30  | -0.0012 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -14.90 | -0.0043 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 50  | NV | -15.10 | -0.0043 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM QPSK       | 3500.01 | Outer_Full | 20  | LV | -13.40 | -0.0038 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -10.20 | -0.0029 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -16.90 | -0.0048 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | 3.00   | 0.0009  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -10.80 | -0.0031 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -20.50 | -0.0059 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -15.40 | -0.0044 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -22.20 | -0.0063 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -25.00 | -0.0071 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -11.40 | -0.0033 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 16 QAM     | 3500.01 | Outer_Full | 50  | NV | -17.40 | -0.0050 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | LV | -14.10 | -0.0040 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -32.50 | -0.0093 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -25.10 | -0.0072 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -33.40 | -0.0095 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -22.20 | -0.0063 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -27.90 | -0.0080 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -13.50 | -0.0039 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -13.50 | -0.0039 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -13.30 | -0.0038 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -18.20 | -0.0052 | $\geq -2.5$ & $\leq 2.5$ | Pass |

|                 |         |            |     |    |        |         |                          |      |
|-----------------|---------|------------|-----|----|--------|---------|--------------------------|------|
|                 |         |            | 50  | NV | -15.00 | -0.0043 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 64 QAM  | 3500.01 | Outer_Full | 20  | LV | -3.50  | -0.0010 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | -13.30 | -0.0038 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -29.40 | -0.0084 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -6.30  | -0.0018 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -21.80 | -0.0062 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -29.40 | -0.0084 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -14.30 | -0.0041 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -11.90 | -0.0034 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -22.70 | -0.0065 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -18.10 | -0.0052 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | 4.50   | 0.0013  | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 256 QAM | 3500.01 | Outer_Full | 20  | LV | -38.90 | -0.0111 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | -16.40 | -0.0047 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -11.50 | -0.0033 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -5.70  | -0.0016 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -13.60 | -0.0039 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -11.80 | -0.0034 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -31.60 | -0.0090 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -13.20 | -0.0038 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -28.00 | -0.0080 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -27.30 | -0.0078 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -13.50 | -0.0039 | $\geq -2.5$ & $\leq 2.5$ | Pass |

## 2.9 30k\_SISO\_100MHz

### 2.9.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 100MHz |                 |               |            |       |                  |                       |                          |         |
|-----------------------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|--------------------------|---------|
| Modulation                                    | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                          | Verdict |
|                                               |                 |               |            |       |                  | Result                | Limit                    |         |
| DFT-s-OFDM PI/2 BPSK                          | 3500.01         | Outer_Full    | 20         | LV    | -20.20           | -0.0058               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               |            | HV    | -25.90           | -0.0074               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               | -30        | NV    | -26.90           | -0.0077               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               | -20        | NV    | -14.00           | -0.0040               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               | -10        | NV    | -9.40            | -0.0027               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               | 0          | NV    | -5.70            | -0.0016               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               | 10         | NV    | -14.70           | -0.0042               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               | 20         | NV    | -34.90           | -0.0100               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               | 30         | NV    | -20.90           | -0.0060               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               | 40         | NV    | -19.30           | -0.0055               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
| DFT-s-OFDM QPSK                               | 3500.01         | Outer_Full    | 20         | LV    | -11.50           | -0.0033               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               |            | HV    | -20.60           | -0.0059               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               | -30        | NV    | -7.50            | -0.0021               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               | -20        | NV    | -20.90           | -0.0060               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               | -10        | NV    | -25.70           | -0.0073               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               | 0          | NV    | -13.80           | -0.0039               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               | 10         | NV    | -25.40           | -0.0073               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               | 20         | NV    | -8.70            | -0.0025               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               | 30         | NV    | -17.20           | -0.0049               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               | 40         | NV    | -11.20           | -0.0032               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
| DFT-s-OFDM 16 QAM                             | 3500.01         | Outer_Full    | 20         | LV    | -24.60           | -0.0070               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                               |                 |               |            | HV    | -33.10           | -0.0095               | $\geq -2.5$ & $\leq 2.5$ | Pass    |

|                    |         |            |     |    |        |         |                          |      |
|--------------------|---------|------------|-----|----|--------|---------|--------------------------|------|
|                    |         |            | -30 | NV | -6.00  | -0.0017 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -9.20  | -0.0026 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -19.20 | -0.0055 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -17.50 | -0.0050 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -10.70 | -0.0031 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -22.70 | -0.0065 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -11.80 | -0.0034 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -9.00  | -0.0026 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 50  | NV | -15.10 | -0.0043 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| DFT-s-OFDM 64 QAM  | 3500.01 | Outer_Full | 20  | LV | -10.00 | -0.0029 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -14.60 | -0.0042 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -22.90 | -0.0065 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -15.70 | -0.0045 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -18.20 | -0.0052 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -22.50 | -0.0064 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -20.30 | -0.0058 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -3.00  | -0.0009 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -9.60  | -0.0027 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -27.20 | -0.0078 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| DFT-s-OFDM 256 QAM | 3500.01 | Outer_Full | 20  | LV | -10.50 | -0.0030 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -18.30 | -0.0052 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -19.10 | -0.0055 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -8.90  | -0.0025 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -26.40 | -0.0075 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -19.60 | -0.0056 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -15.40 | -0.0044 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -21.60 | -0.0062 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -4.20  | -0.0012 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 40  | NV | -7.40  | -0.0021 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM QPSK       | 3500.01 | Outer_Full | 20  | LV | -8.00  | -0.0023 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -20.10 | -0.0057 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -24.60 | -0.0070 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -17.50 | -0.0050 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -8.10  | -0.0023 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -10.20 | -0.0029 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -17.00 | -0.0049 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -9.30  | -0.0027 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -11.00 | -0.0031 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 30  | NV | -19.50 | -0.0056 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 16 QAM     | 3500.01 | Outer_Full | 20  | LV | -15.10 | -0.0043 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -18.10 | -0.0052 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -6.70  | -0.0019 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -16.20 | -0.0046 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -20.60 | -0.0059 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -27.40 | -0.0078 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -34.00 | -0.0097 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 0   | NV | -28.10 | -0.0080 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 10  | NV | -10.80 | -0.0031 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | 20  | NV | -24.80 | -0.0071 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 64 QAM     | 3500.01 | Outer_Full | 20  | LV | -17.50 | -0.0050 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            |     | HV | -10.40 | -0.0030 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -30 | NV | -10.40 | -0.0030 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -20 | NV | -18.10 | -0.0052 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                    |         |            | -10 | NV | -13.90 | -0.0040 | $\geq -2.5$ & $\leq 2.5$ | Pass |



|                 |         |            |     |    |        |         |                          |      |
|-----------------|---------|------------|-----|----|--------|---------|--------------------------|------|
| CP-OFDM 256 QAM | 3500.01 | Outer_Full | 0   | NV | -27.60 | -0.0079 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -20.00 | -0.0057 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -9.60  | -0.0027 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -23.20 | -0.0066 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -2.90  | -0.0008 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -24.10 | -0.0069 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | LV | -14.10 | -0.0040 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | -24.80 | -0.0071 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -14.70 | -0.0042 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -25.20 | -0.0072 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -15.70 | -0.0045 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -24.60 | -0.0070 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -14.60 | -0.0042 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -18.10 | -0.0052 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -10.50 | -0.0030 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -5.80  | -0.0017 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -17.20 | -0.0049 | $\geq -2.5$ & $\leq 2.5$ | Pass |

### 3. 99% & 26dB Bandwidth

#### 3.1 30k\_SISO\_20MHz\_NTNV

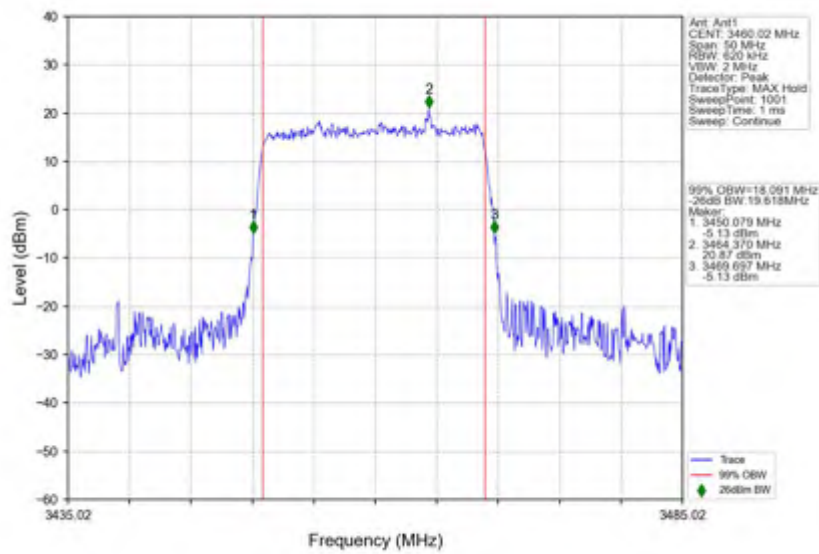
##### 3.1.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 20MHz NTN |                 |               |                     |                      |             |         |
|--------------------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK                             | 3460.02         | Outer_Full    | 18.09               | 19.62                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 18.07               | 19.77                | /           | Pass    |
|                                                  | 3540            | Outer_Full    | 18.09               | 19.64                | /           | Pass    |
| DFT-s-OFDM QPSK                                  | 3460.02         | Outer_Full    | 18.06               | 19.68                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 18.12               | 19.89                | /           | Pass    |
|                                                  | 3540            | Outer_Full    | 18.11               | 19.68                | /           | Pass    |
| DFT-s-OFDM 16 QAM                                | 3460.02         | Outer_Full    | 18.11               | 19.57                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 18.10               | 19.74                | /           | Pass    |
|                                                  | 3540            | Outer_Full    | 18.15               | 19.83                | /           | Pass    |
| DFT-s-OFDM 64 QAM                                | 3460.02         | Outer_Full    | 18.07               | 19.69                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 18.06               | 19.62                | /           | Pass    |
|                                                  | 3540            | Outer_Full    | 18.09               | 19.66                | /           | Pass    |
| DFT-s-OFDM 256 QAM                               | 3460.02         | Outer_Full    | 18.05               | 19.71                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 18.07               | 19.68                | /           | Pass    |
|                                                  | 3540            | Outer_Full    | 18.24               | 19.77                | /           | Pass    |
| CP-OFDM QPSK                                     | 3460.02         | Outer_Full    | 18.33               | 19.62                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 18.39               | 19.65                | /           | Pass    |
|                                                  | 3540            | Outer_Full    | 18.38               | 19.72                | /           | Pass    |
| CP-OFDM 16 QAM                                   | 3460.02         | Outer_Full    | 18.40               | 20.07                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 18.34               | 20.00                | /           | Pass    |
|                                                  | 3540            | Outer_Full    | 18.50               | 19.82                | /           | Pass    |
| CP-OFDM 64 QAM                                   | 3460.02         | Outer_Full    | 18.46               | 20.17                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 18.40               | 20.07                | /           | Pass    |
|                                                  | 3540            | Outer_Full    | 18.43               | 20.11                | /           | Pass    |
| CP-OFDM 256 QAM                                  | 3460.02         | Outer_Full    | 18.32               | 19.79                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 18.43               | 20.04                | /           | Pass    |
|                                                  | 3540            | Outer_Full    | 18.42               | 20.17                | /           | Pass    |

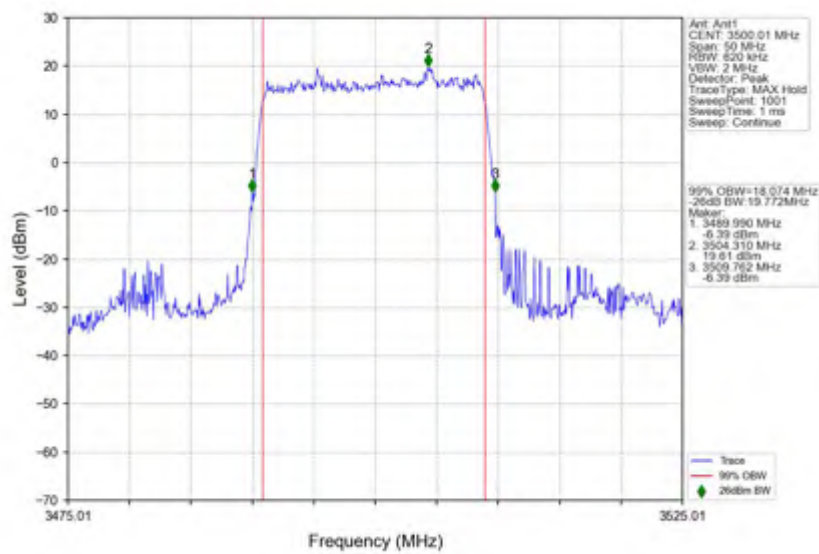


### 3.1.2 Test Graph

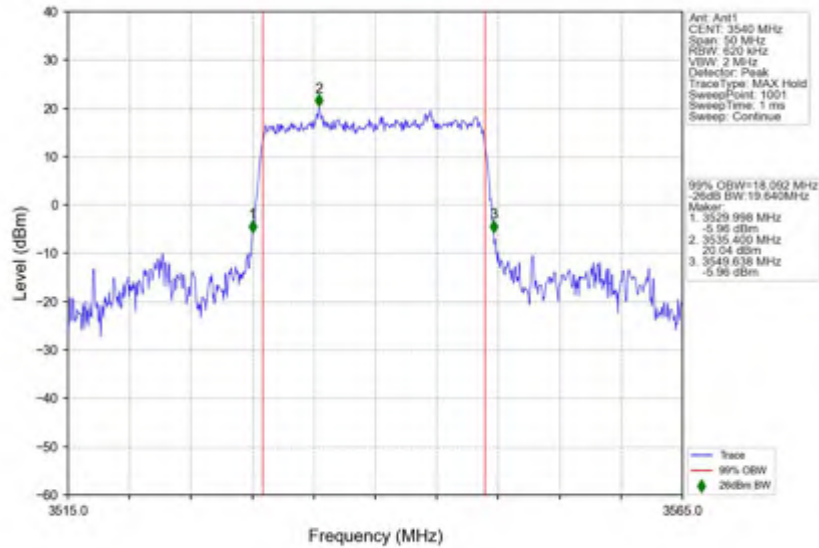
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3460.02MHz\_Outer\_Full



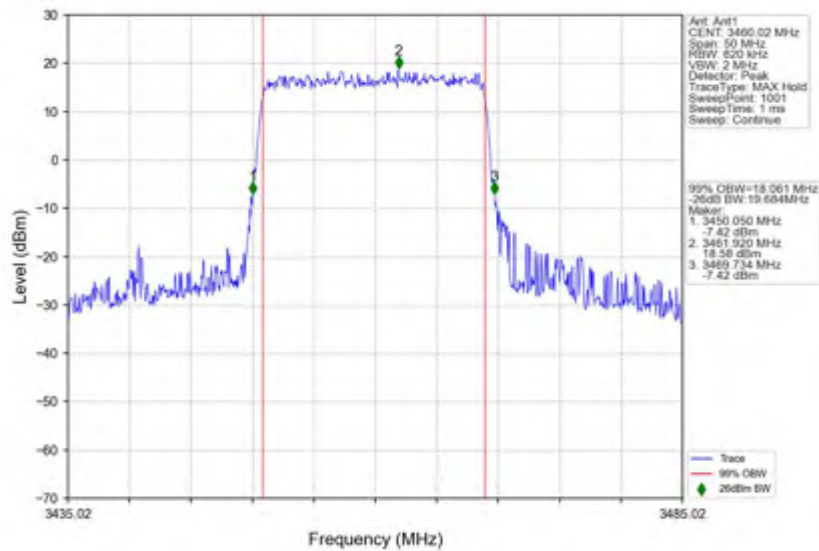
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3500.01MHz\_Outer\_Full



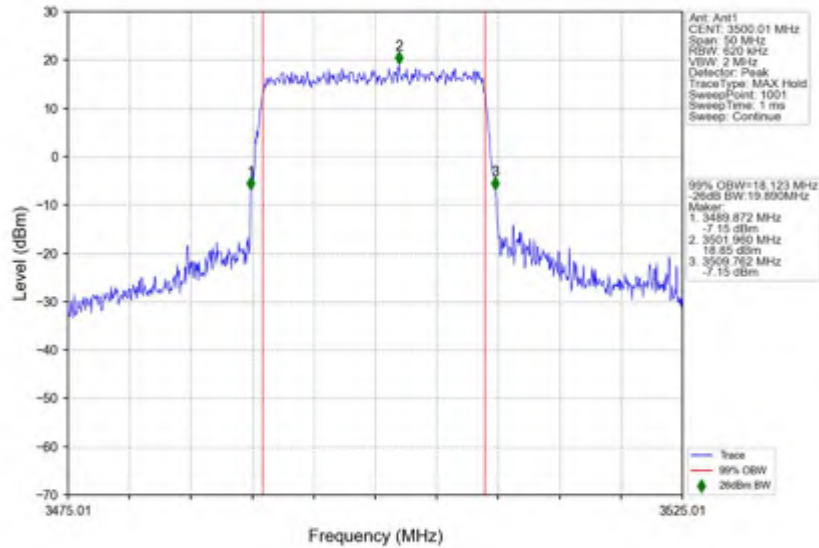
n78(3450-3550MHz) 30kHz SISO NTN 20MHz DFT-s-OFDM PI/2 BPSK 3540MHz Outer Full



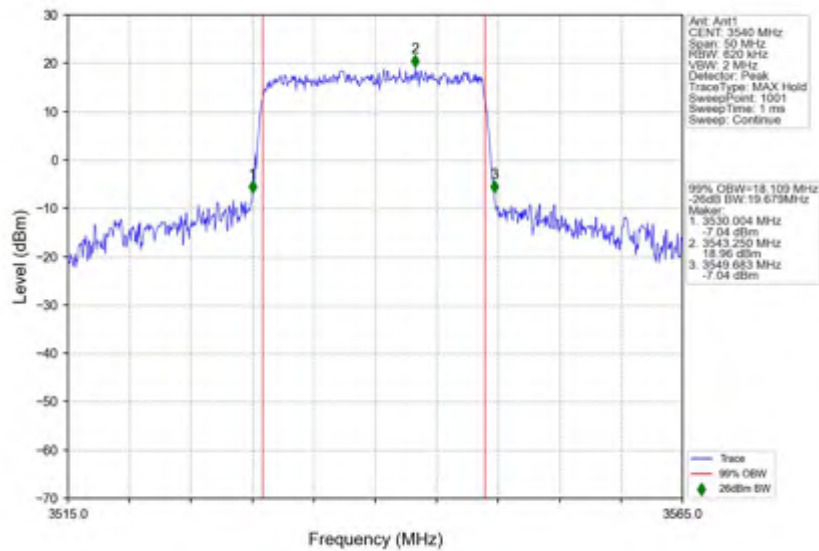
n78(3450-3550MHz) 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3460.02MHz Outer Full



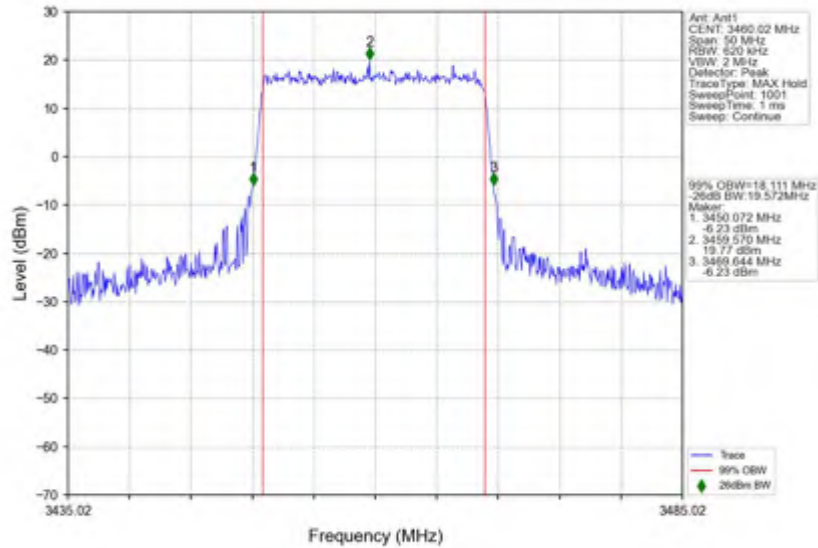
n78(3450-3550MHz) 30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK 3500.01MHz\_Outer\_Full



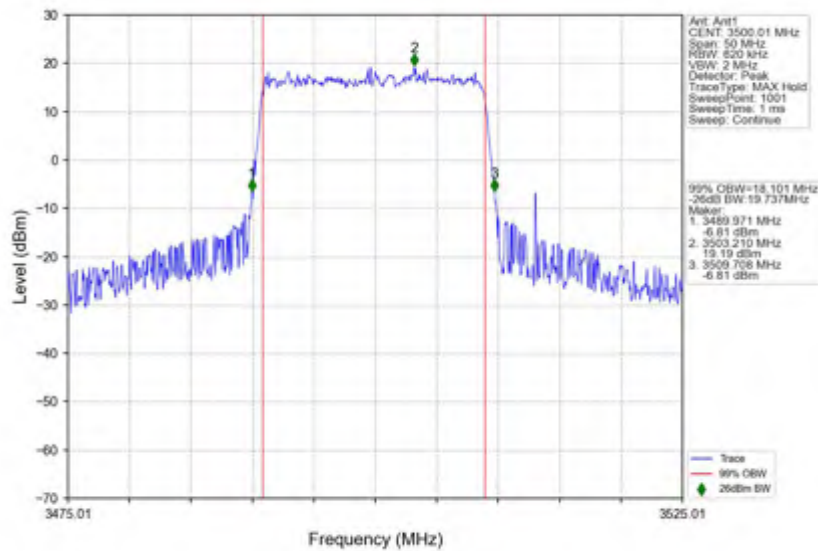
n78(3450-3550MHz) 30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK 3540MHz\_Outer\_Full



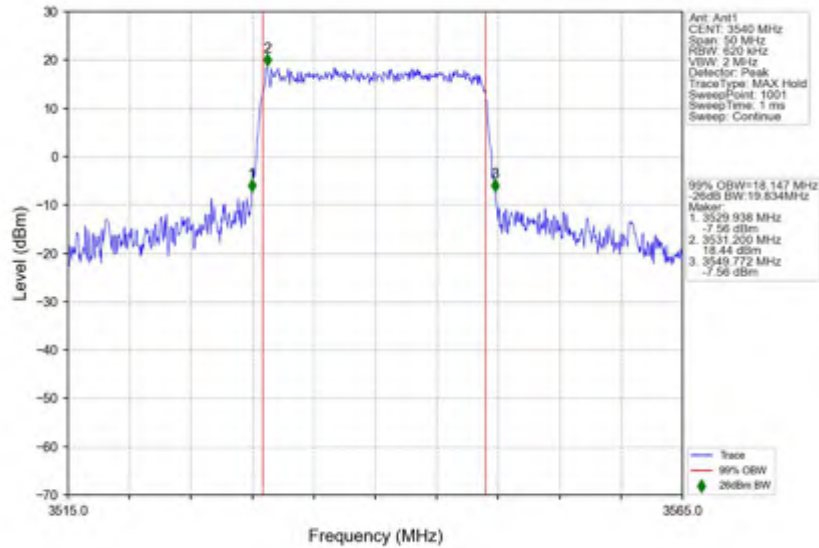
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_16\_QAM\_3460.02MHz\_Outer\_Full



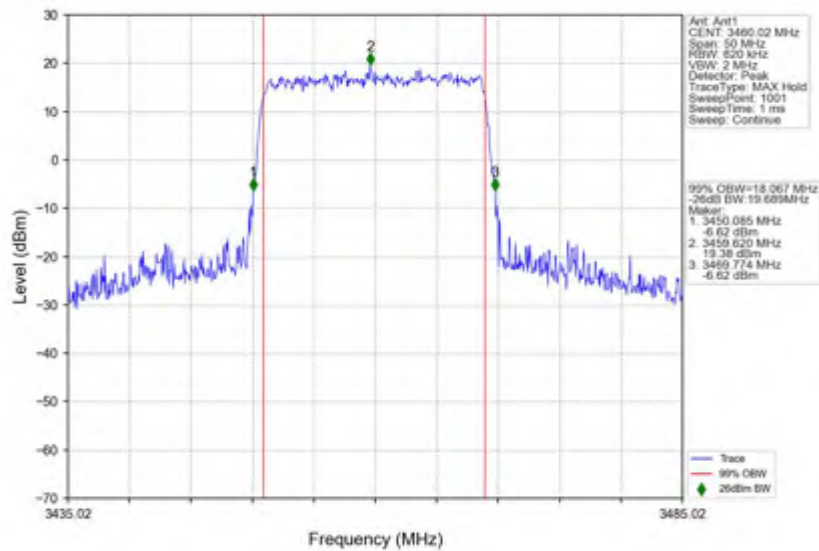
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full



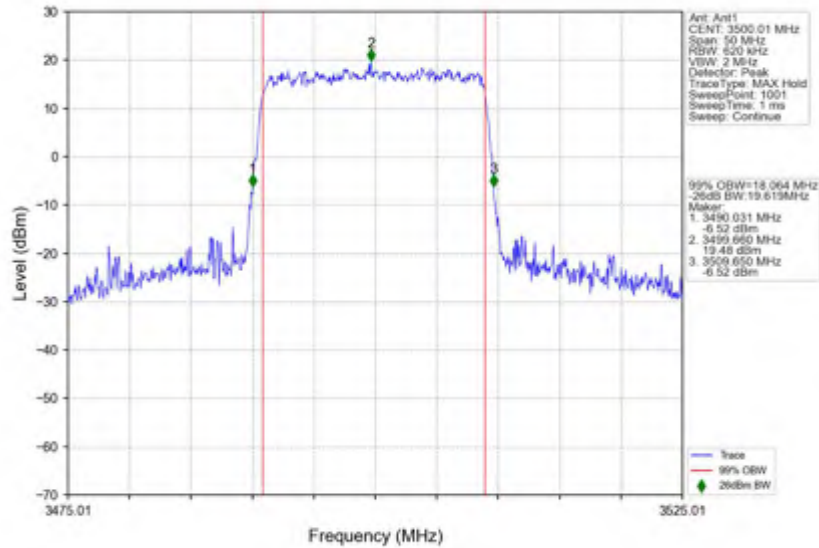
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_16\_QAM\_3540MHz\_Outer\_Full



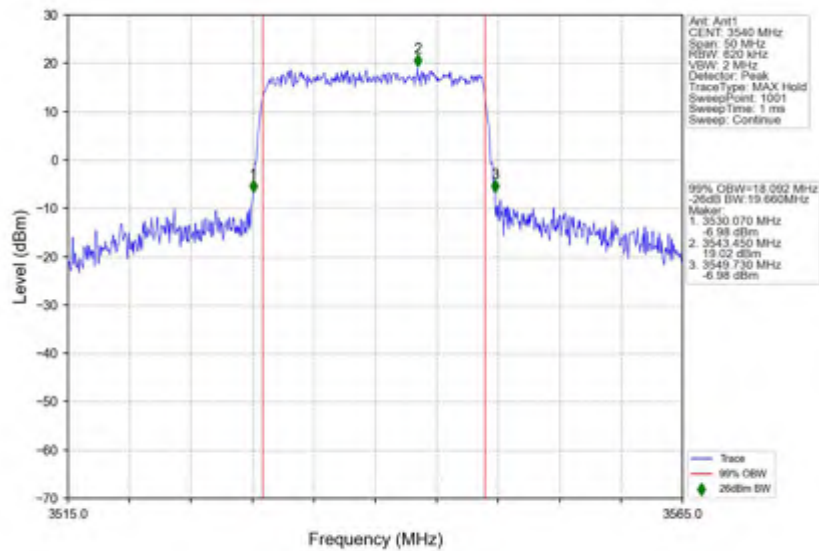
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_64\_QAM\_3460.02MHz\_Outer\_Full



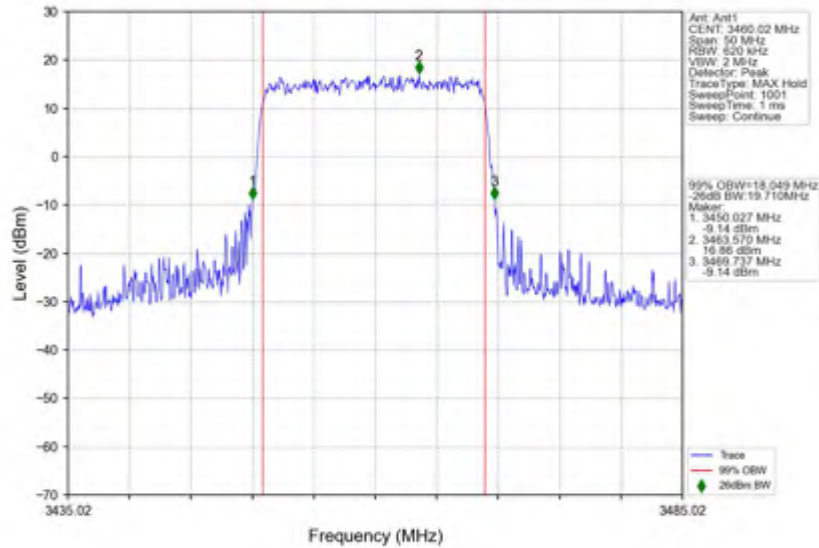
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 64 QAM\_3500.01MHz\_Outer\_Full



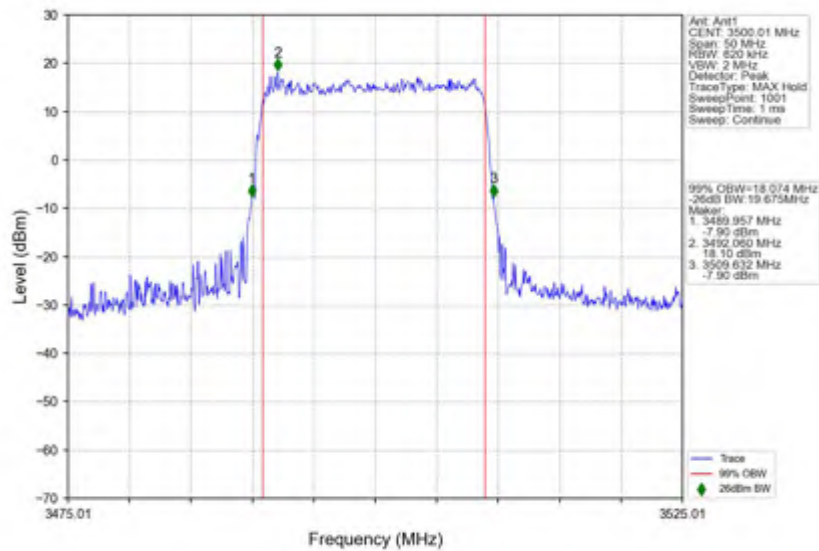
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 64 QAM\_3540MHz\_Outer\_Full



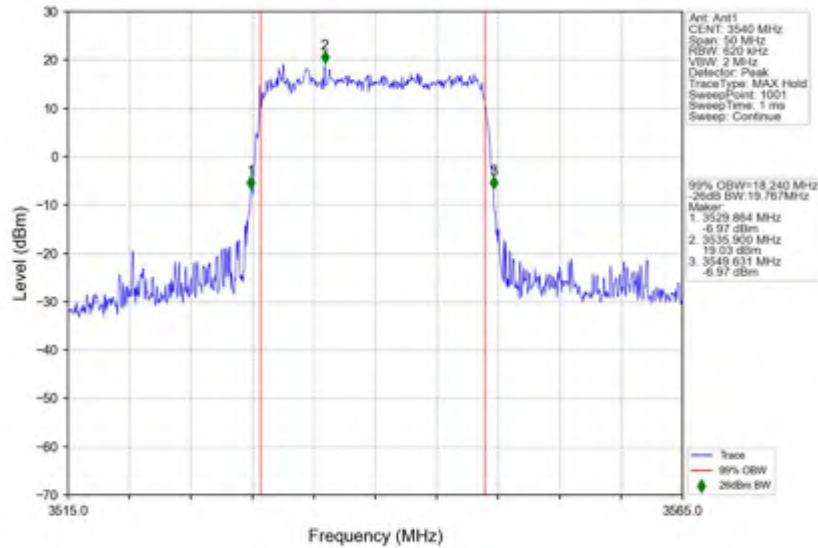
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_256\_QAM\_3460.02MHz\_Outer\_Full



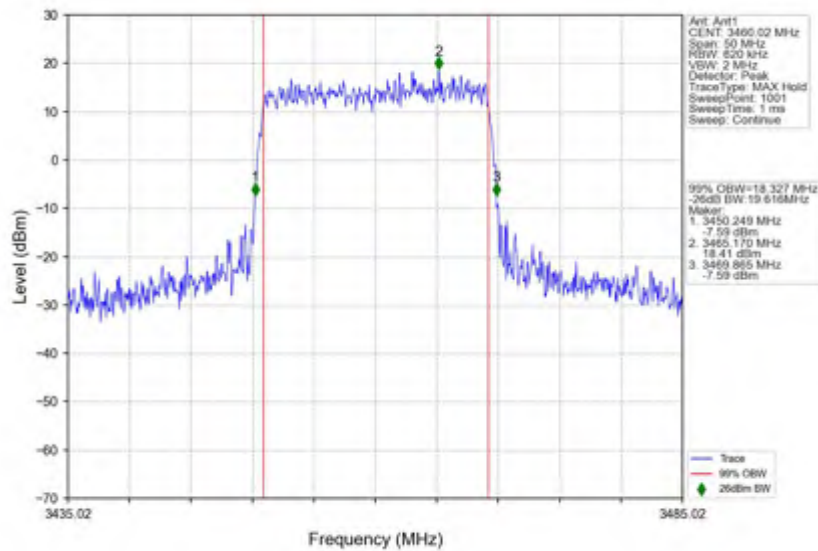
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full



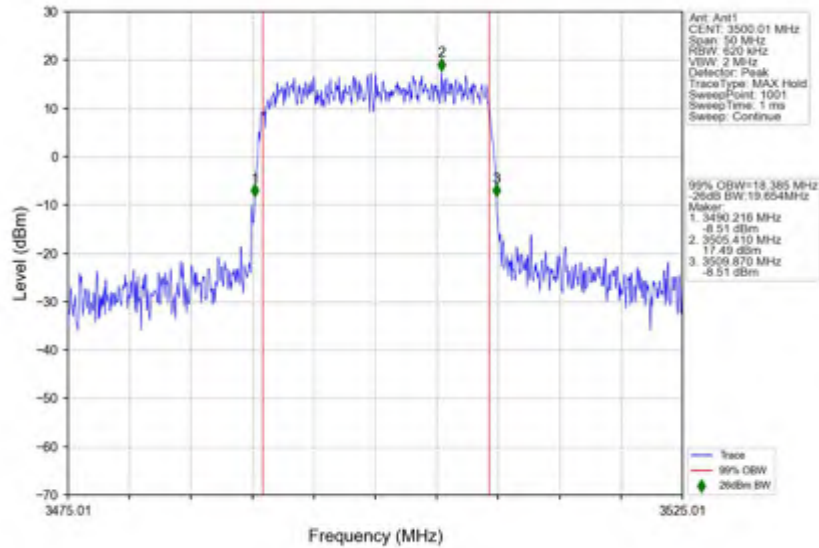
n78(3450-3550MHz) 30kHz SISO NTN 20MHz DFT-s-OFDM 256 QAM 3540MHz Outer Full



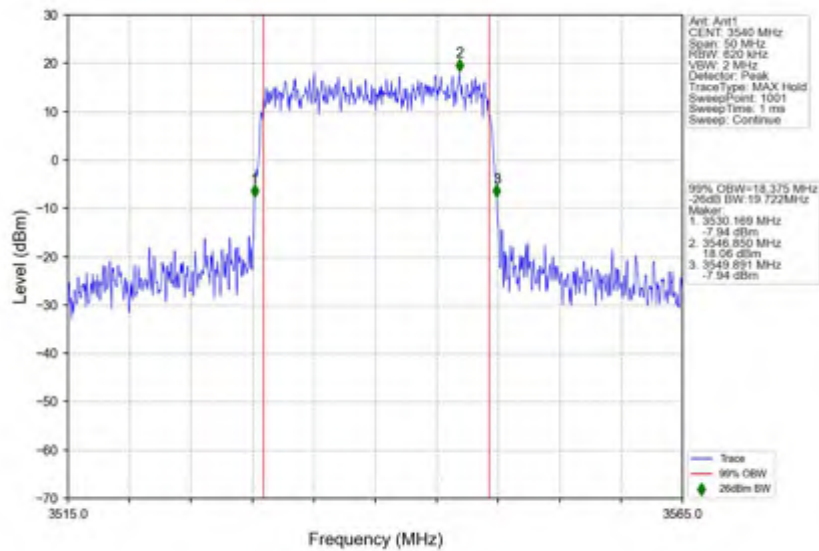
n78(3450-3550MHz) 30kHz SISO NTN 20MHz CP-OFDM QPSK 3460.02MHz Outer Full



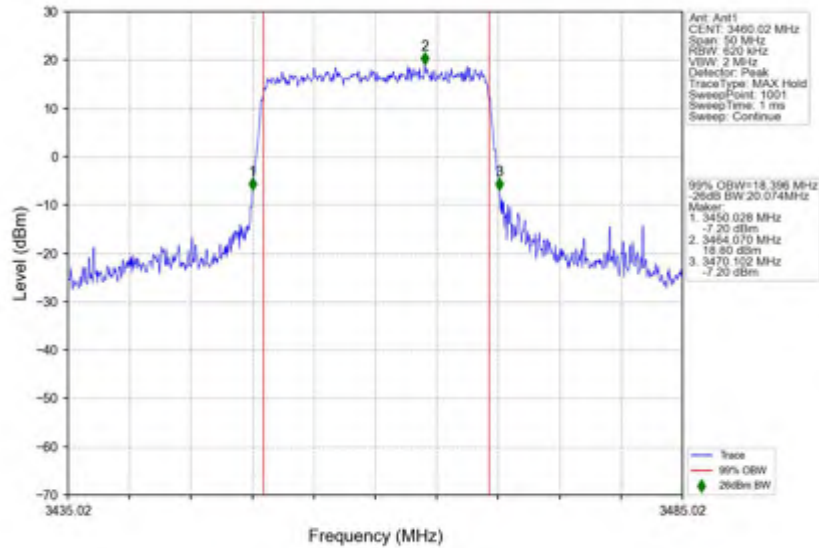
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_QPSK\_3500.01MHz\_Outer\_Full



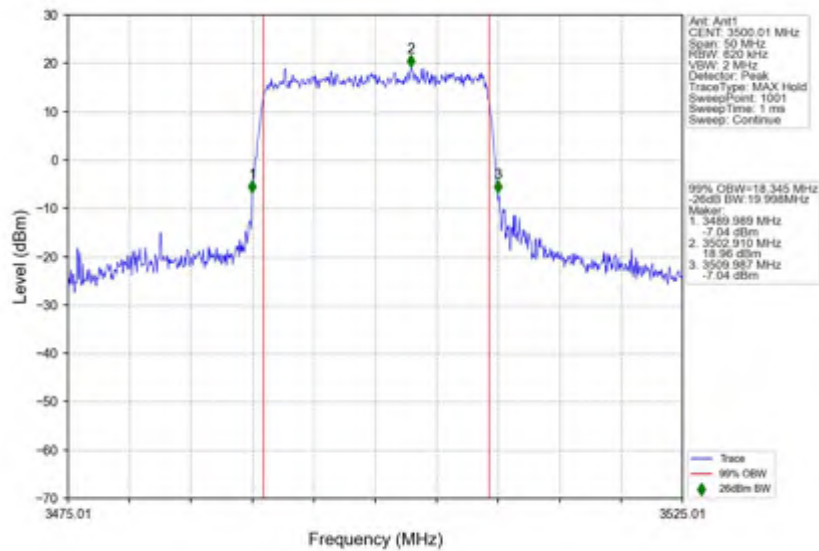
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_QPSK\_3540MHz\_Outer\_Full



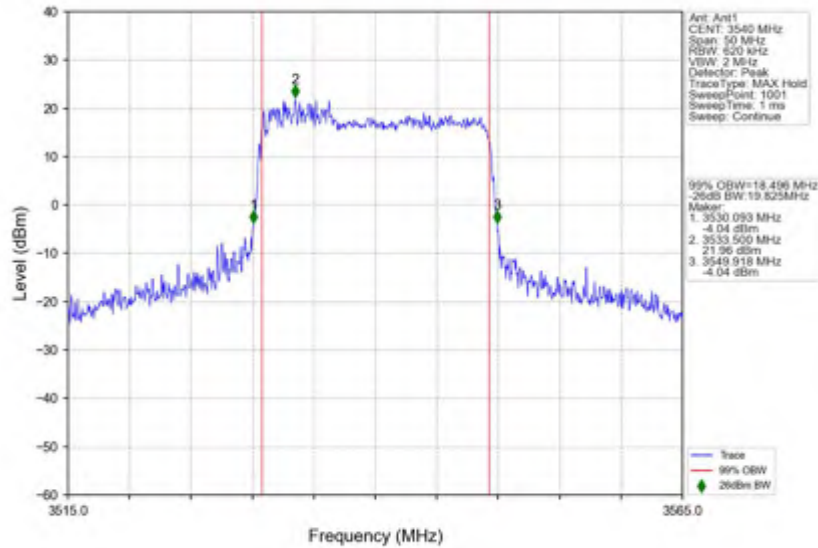
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_16\_QAM\_3460.02MHz\_Outer\_Full



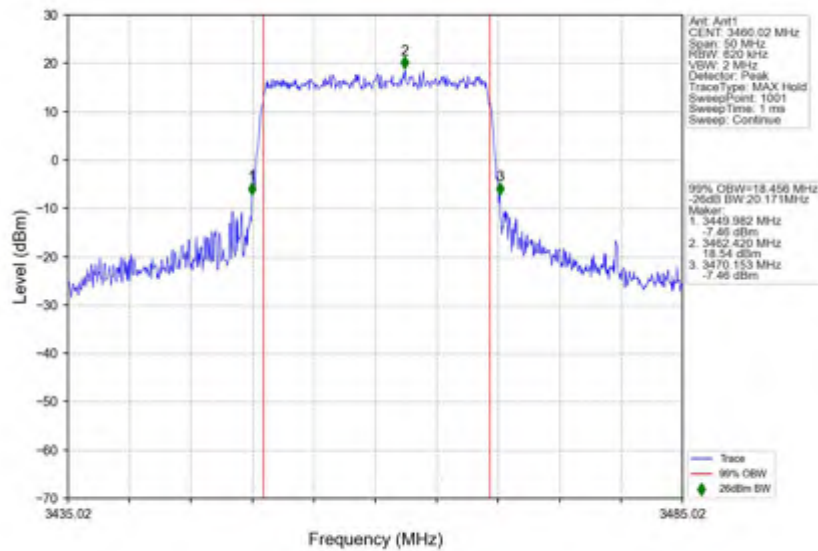
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full



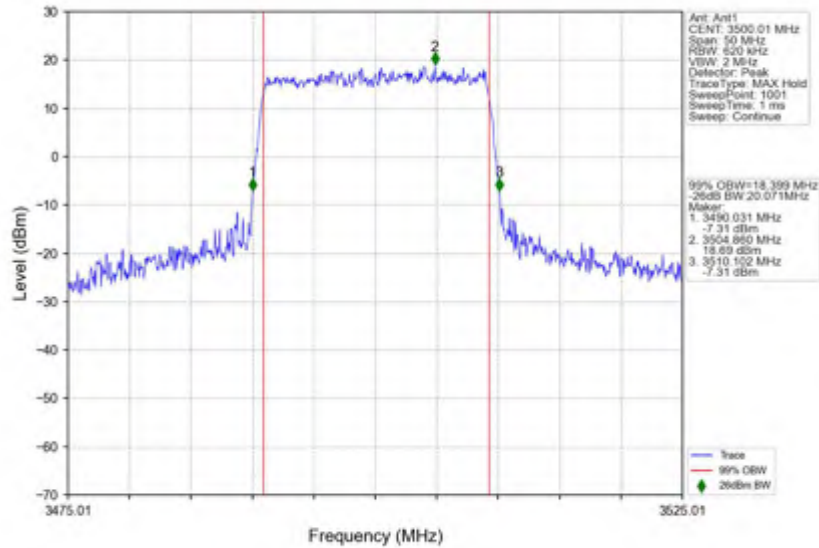
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM 3540MHz\_Outer\_Full



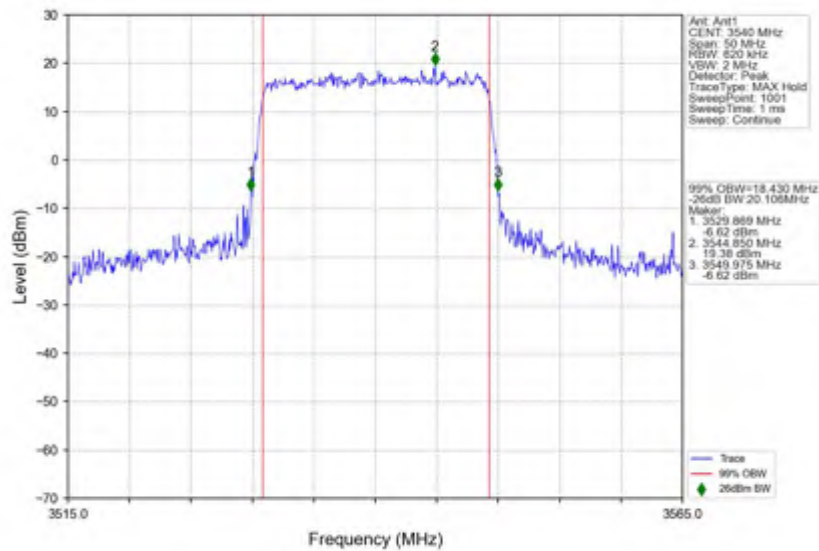
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM 3460.02MHz\_Outer\_Full



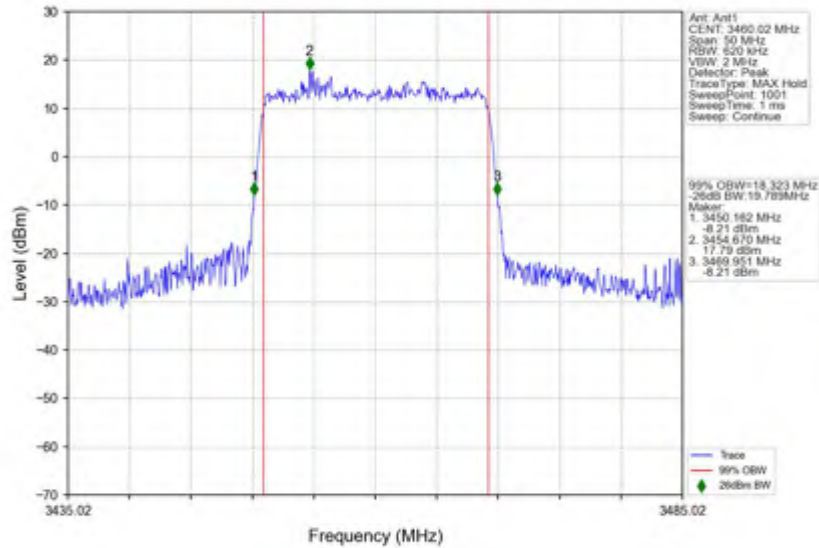
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_3500.01MHz\_Outer\_Full



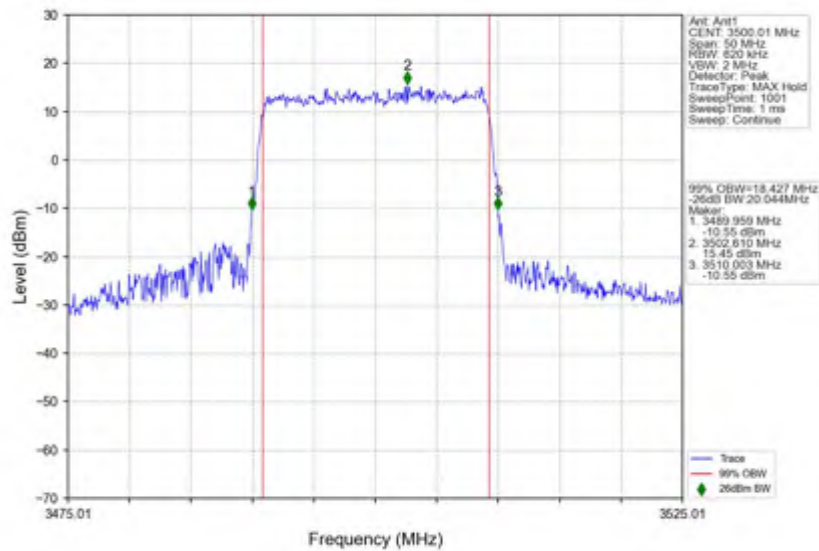
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_3540MHz\_Outer\_Full



n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 256 QAM\_3460.02MHz\_Outer\_Full

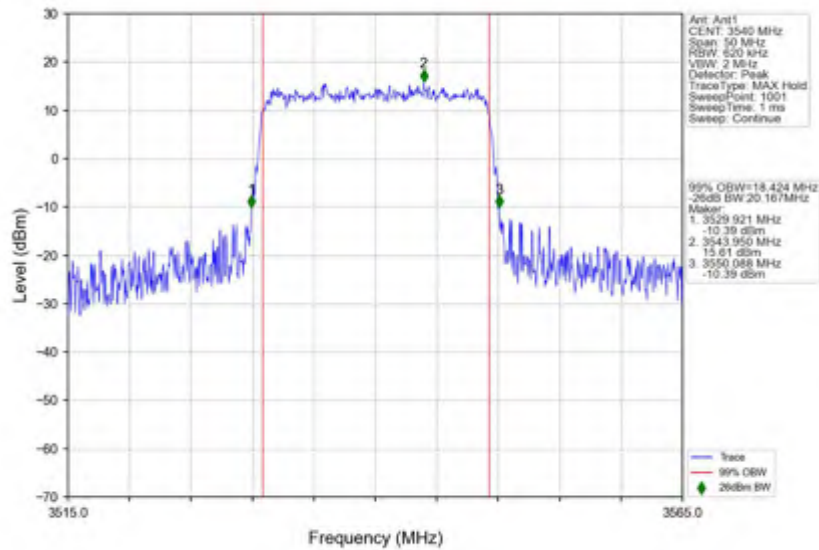


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 256 QAM\_3500.01MHz\_Outer\_Full





n78(3450-3550MHz) 30kHz SISO NTN 20MHz CP-OFDM 256 QAM 3540MHz Outer Full





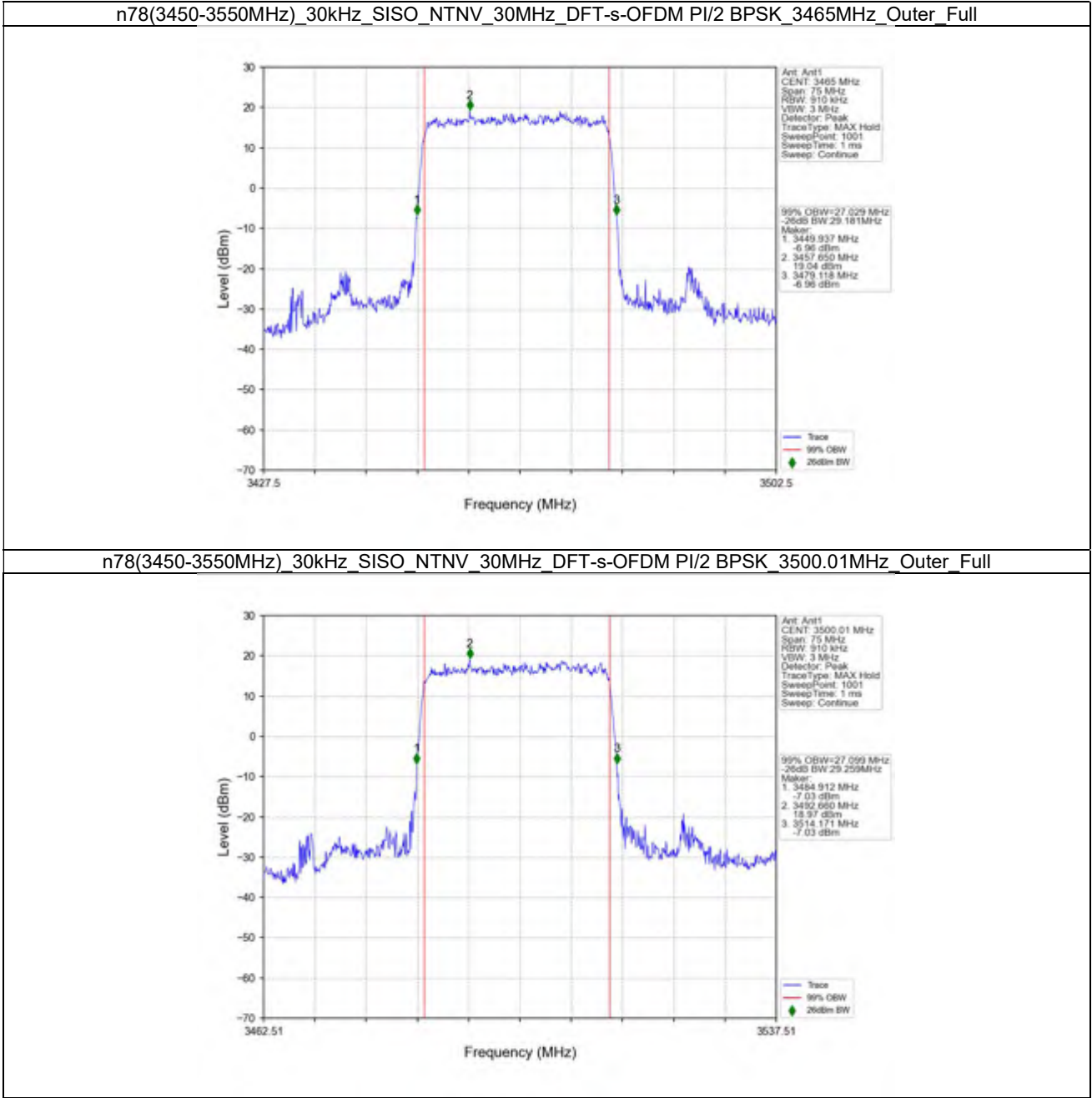
### 3.2 30k\_SISO\_30MHz\_NTNV

#### 3.2.1 Test Result

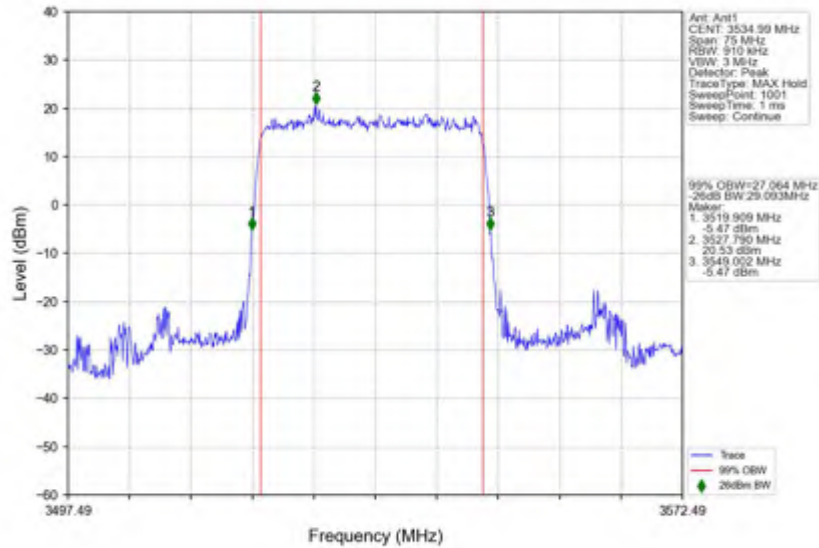
| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 30MHz NTN |                 |               |                     |                      |             |         |
|--------------------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK                             | 3465            | Outer_Full    | 27.03               | 29.18                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 27.10               | 29.26                | /           | Pass    |
|                                                  | 3534.99         | Outer_Full    | 27.06               | 29.09                | /           | Pass    |
| DFT-s-OFDM QPSK                                  | 3465            | Outer_Full    | 27.07               | 29.15                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 27.07               | 29.35                | /           | Pass    |
|                                                  | 3534.99         | Outer_Full    | 27.07               | 29.36                | /           | Pass    |
| DFT-s-OFDM 16 QAM                                | 3465            | Outer_Full    | 27.13               | 29.30                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 27.11               | 29.31                | /           | Pass    |
|                                                  | 3534.99         | Outer_Full    | 27.10               | 29.20                | /           | Pass    |
| DFT-s-OFDM 64 QAM                                | 3465            | Outer_Full    | 27.12               | 29.22                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 27.10               | 29.36                | /           | Pass    |
|                                                  | 3534.99         | Outer_Full    | 27.15               | 29.30                | /           | Pass    |
| DFT-s-OFDM 256 QAM                               | 3465            | Outer_Full    | 27.09               | 28.86                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 27.05               | 28.95                | /           | Pass    |
|                                                  | 3534.99         | Outer_Full    | 27.05               | 28.94                | /           | Pass    |
| CP-OFDM QPSK                                     | 3465            | Outer_Full    | 28.12               | 29.90                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 28.27               | 30.14                | /           | Pass    |
|                                                  | 3534.99         | Outer_Full    | 28.23               | 32.05                | /           | Pass    |
| CP-OFDM 16 QAM                                   | 3465            | Outer_Full    | 28.07               | 30.25                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 28.16               | 30.18                | /           | Pass    |
|                                                  | 3534.99         | Outer_Full    | 28.09               | 30.28                | /           | Pass    |
| CP-OFDM 64 QAM                                   | 3465            | Outer_Full    | 28.07               | 30.14                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 28.11               | 30.24                | /           | Pass    |
|                                                  | 3534.99         | Outer_Full    | 28.09               | 30.29                | /           | Pass    |
| CP-OFDM 256 QAM                                  | 3465            | Outer_Full    | 28.03               | 30.08                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 28.16               | 30.02                | /           | Pass    |
|                                                  | 3534.99         | Outer_Full    | 28.10               | 30.25                | /           | Pass    |



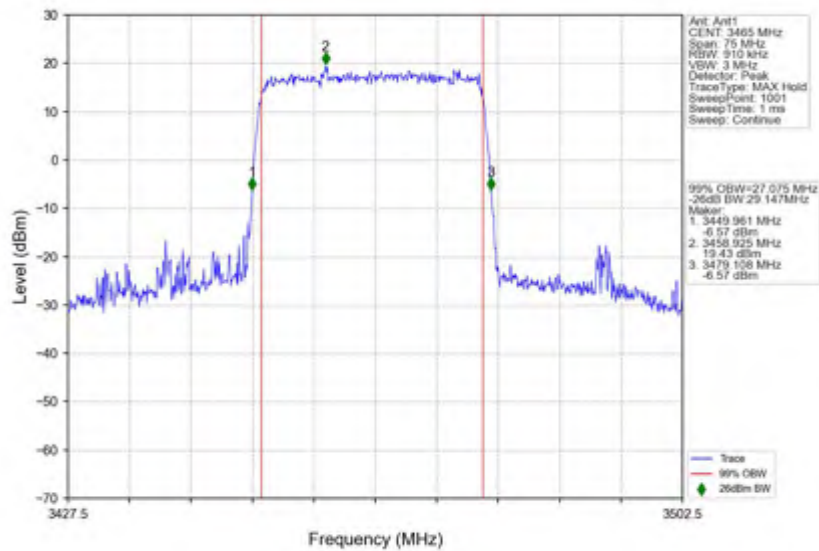
3.2.2 Test Graph



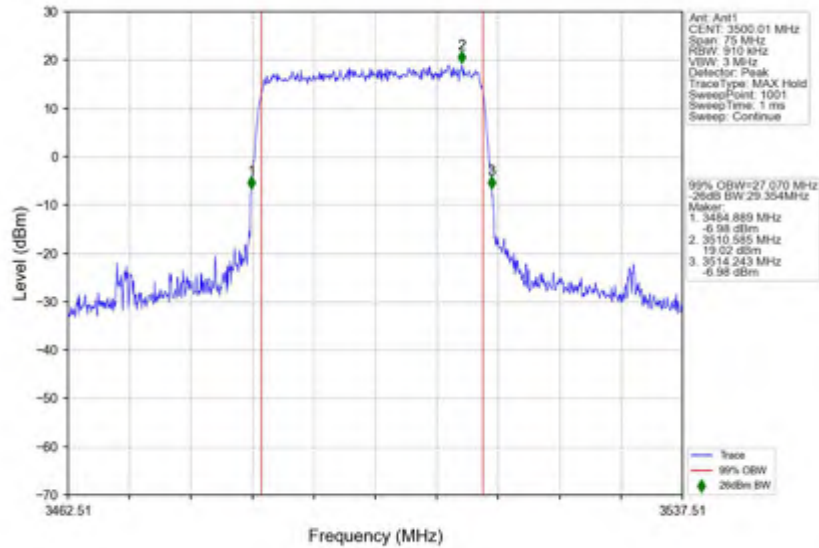
n78(3450-3550MHz) 30kHz SISO NTNv 30MHz DFT-s-OFDM PI/2 BPSK 3534.99MHz Outer Full



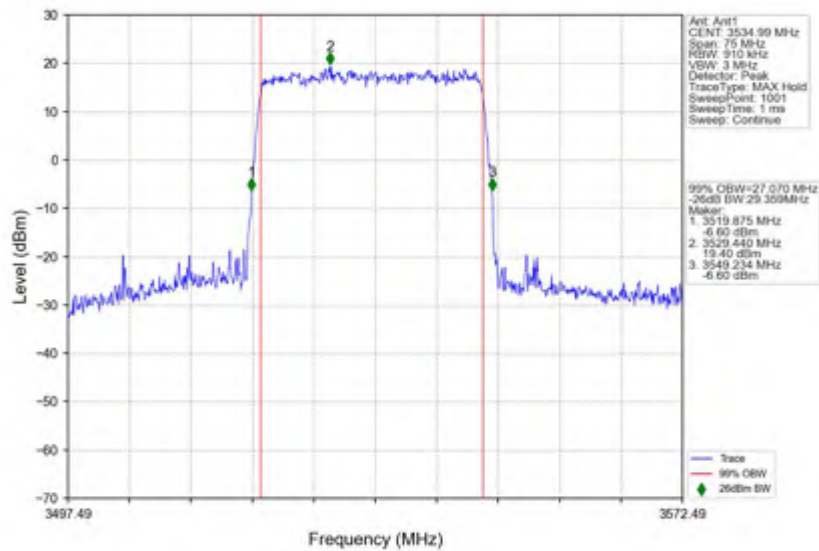
n78(3450-3550MHz) 30kHz SISO NTNv 30MHz DFT-s-OFDM QPSK 3465MHz Outer Full



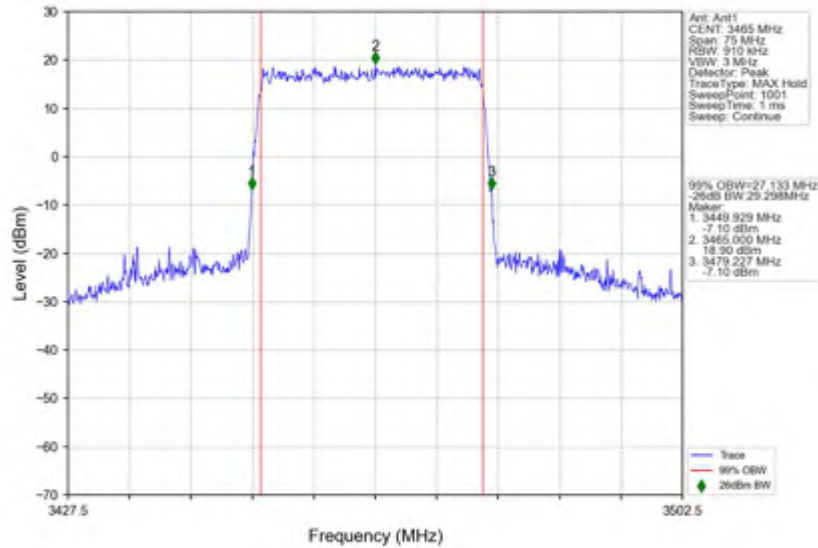
n78(3450-3550MHz) 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3500.01MHz Outer Full



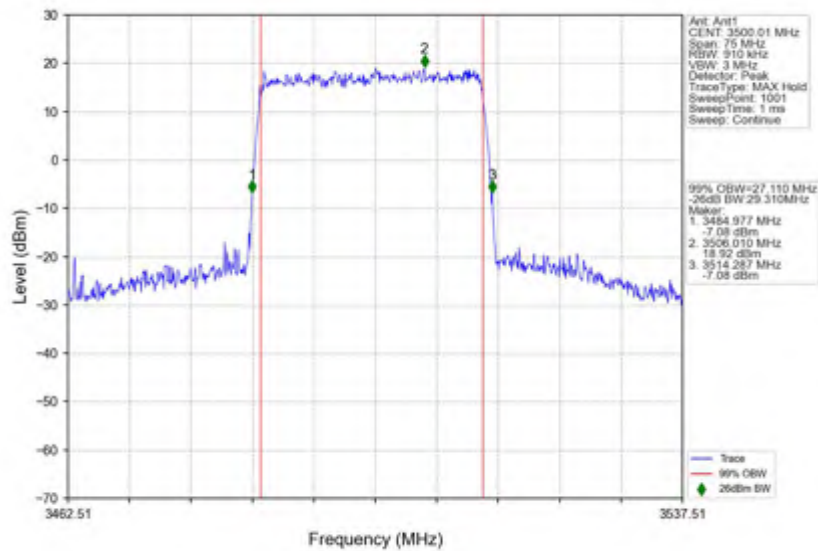
n78(3450-3550MHz) 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3534.99MHz Outer Full



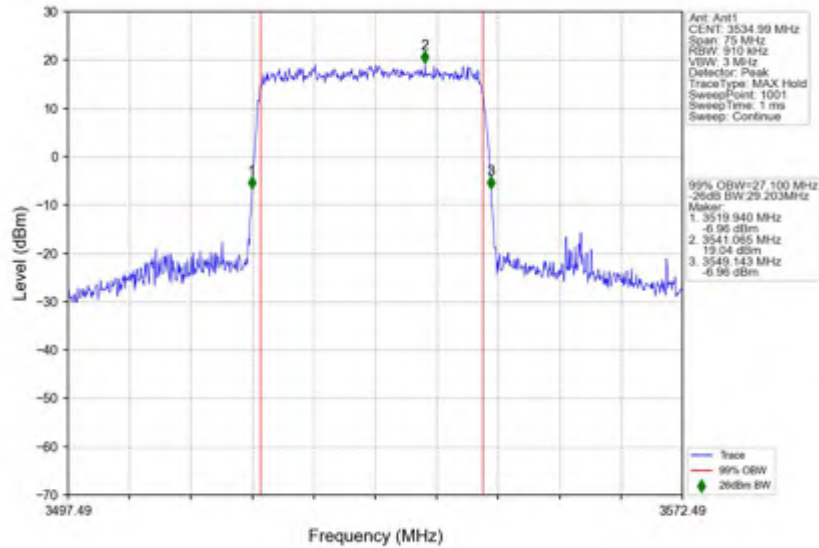
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_16\_QAM\_3465MHz\_Outer\_Full



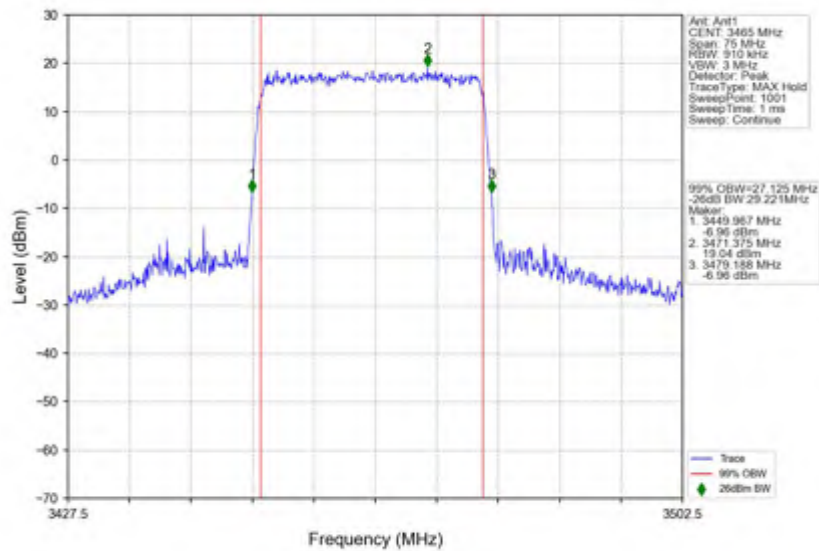
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full



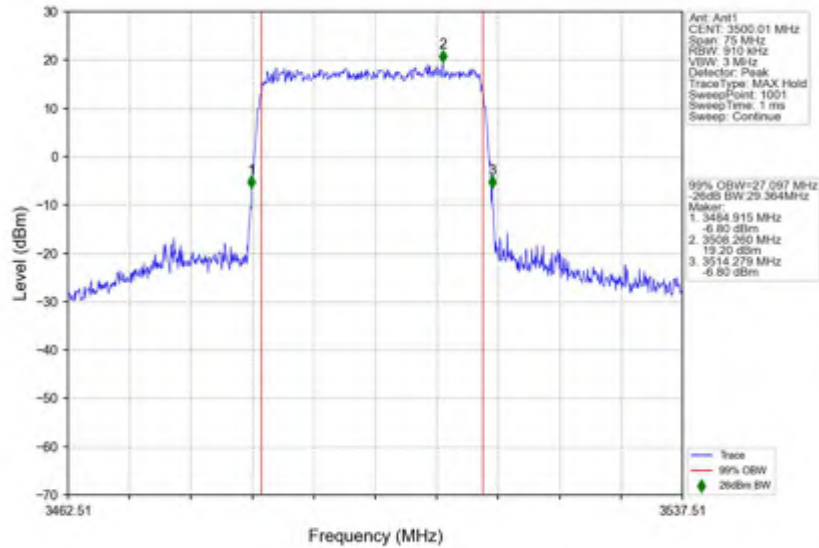
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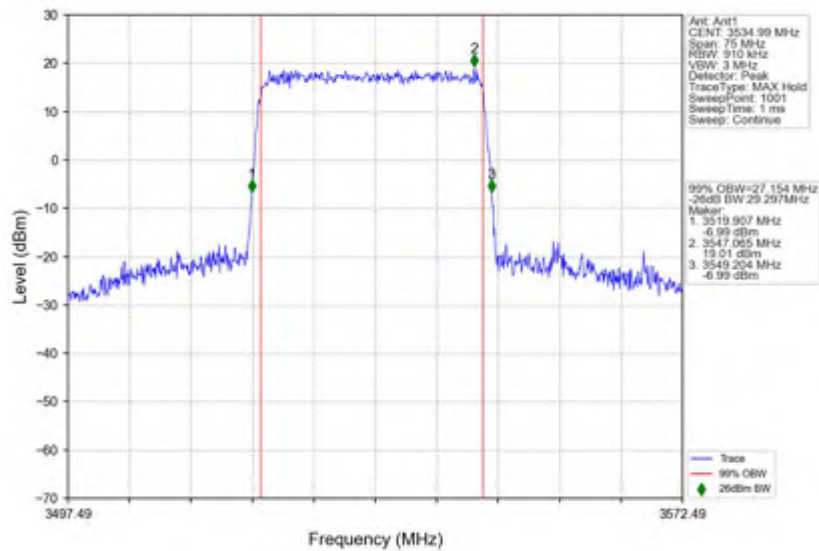
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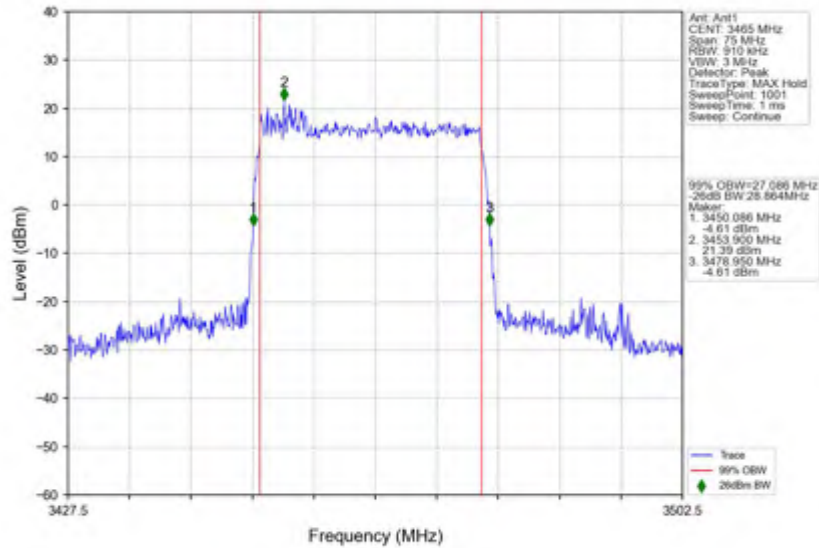
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_64\_QAM\_3500.01MHz\_Outer\_Full



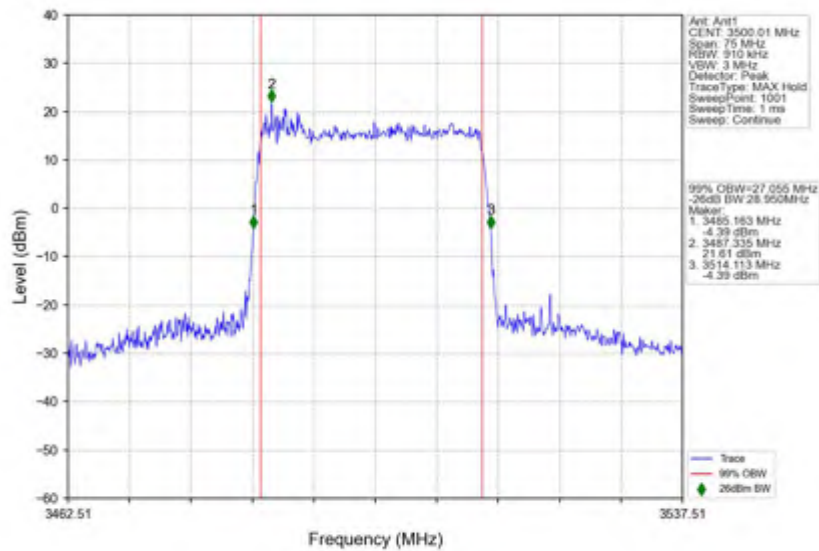
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_64\_QAM\_3534.99MHz\_Outer\_Full



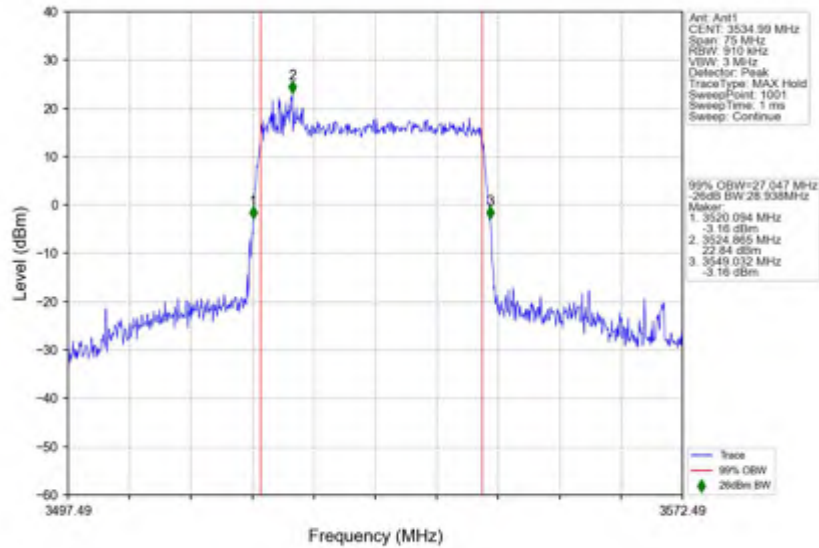
n78(3450-3550MHz) 30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM 256 QAM 3465MHz\_Outer\_Full



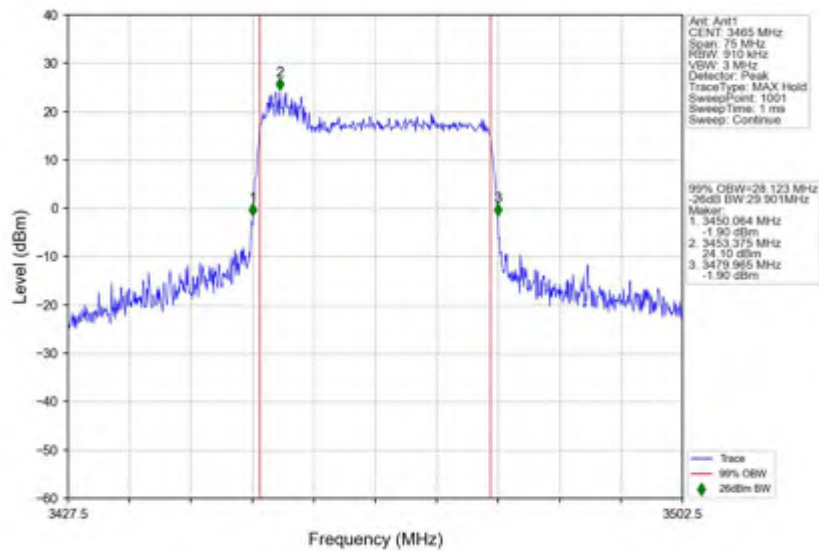
n78(3450-3550MHz) 30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM 256 QAM 3500.01MHz\_Outer\_Full



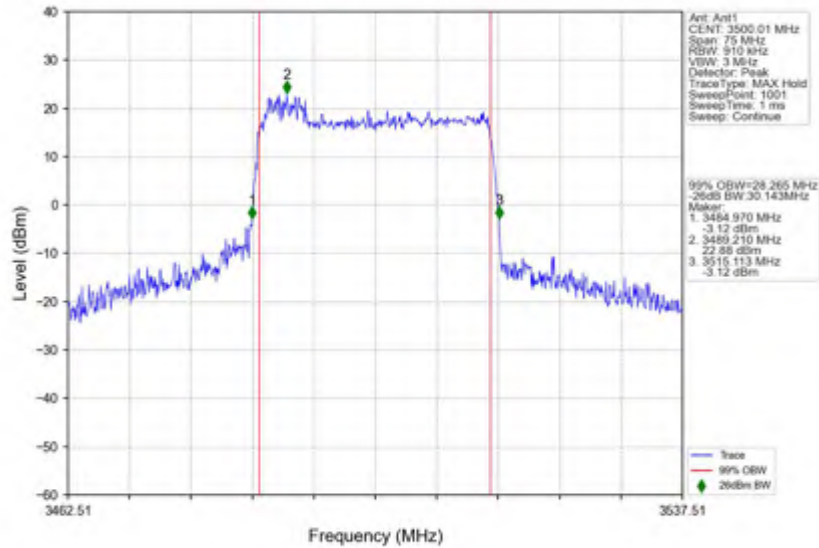
n78(3450-3550MHz) 30kHz SISO NTN 30MHz DFT-s-OFDM 256 QAM 3534.99MHz Outer Full



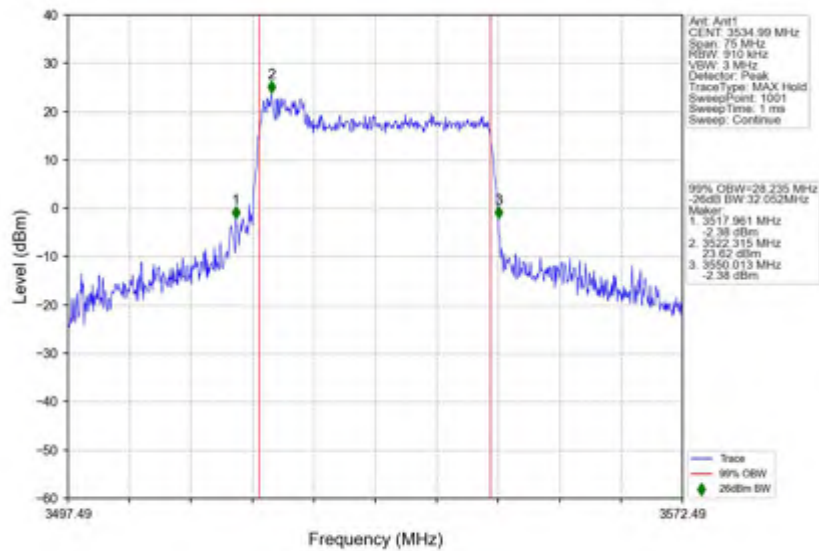
n78(3450-3550MHz) 30kHz SISO NTN 30MHz CP-OFDM QPSK 3465MHz Outer Full



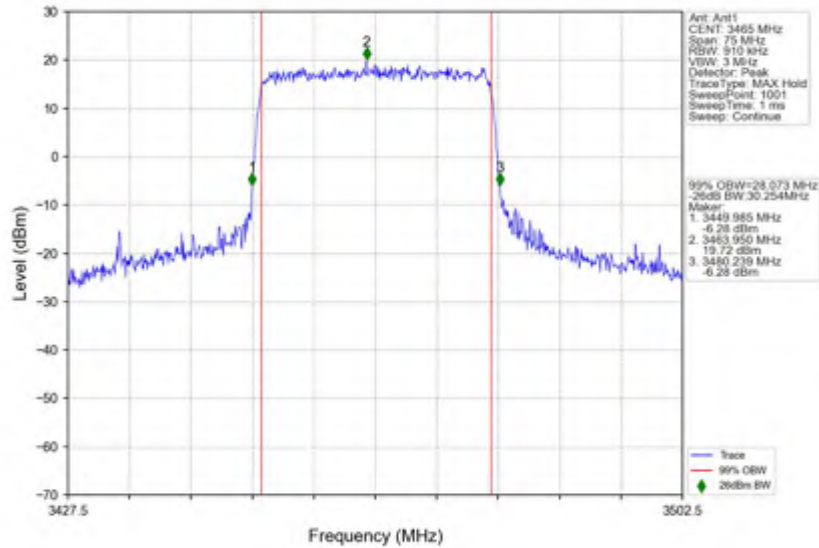
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_QPSK\_3500.01MHz\_Outer\_Full



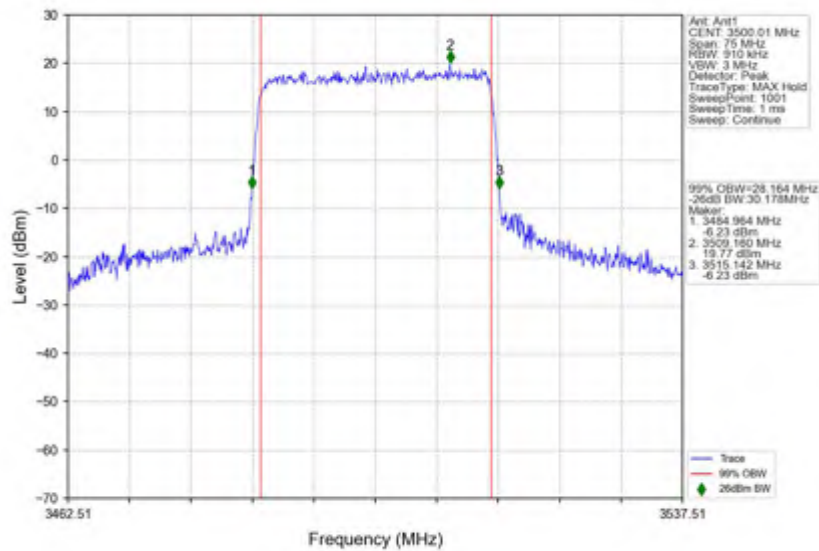
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_QPSK\_3534.99MHz\_Outer\_Full



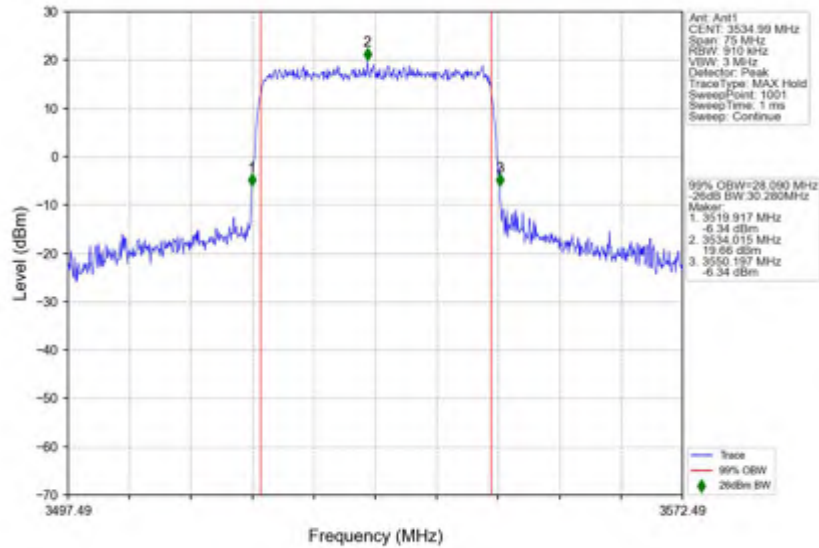
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_16\_QAM\_3465MHz\_Outer\_Full



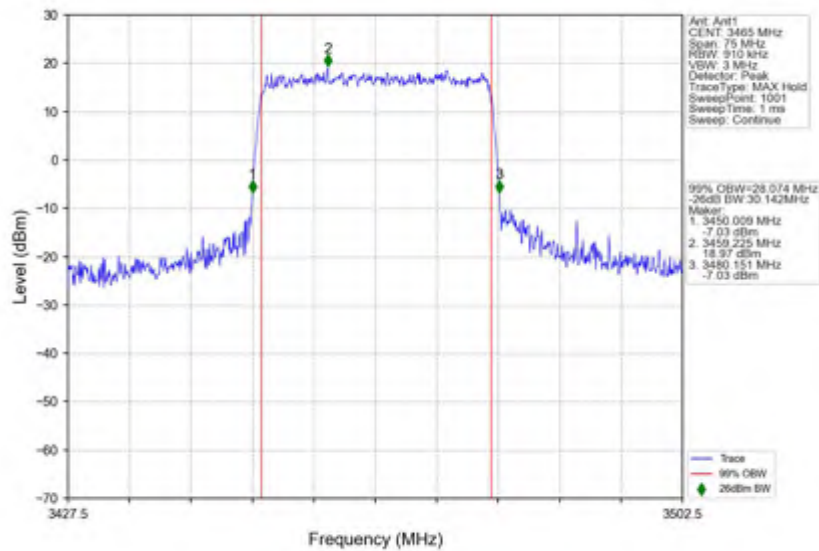
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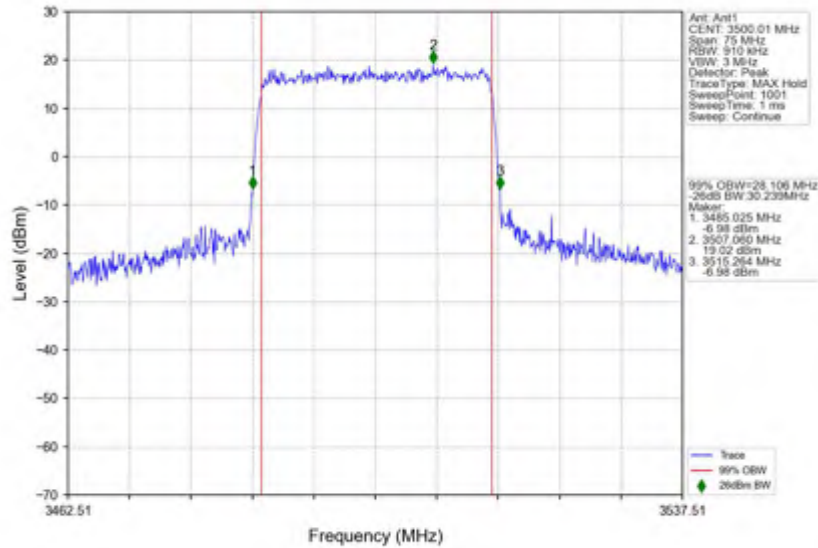
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 16 QAM 3534.99MHz\_Outer\_Full



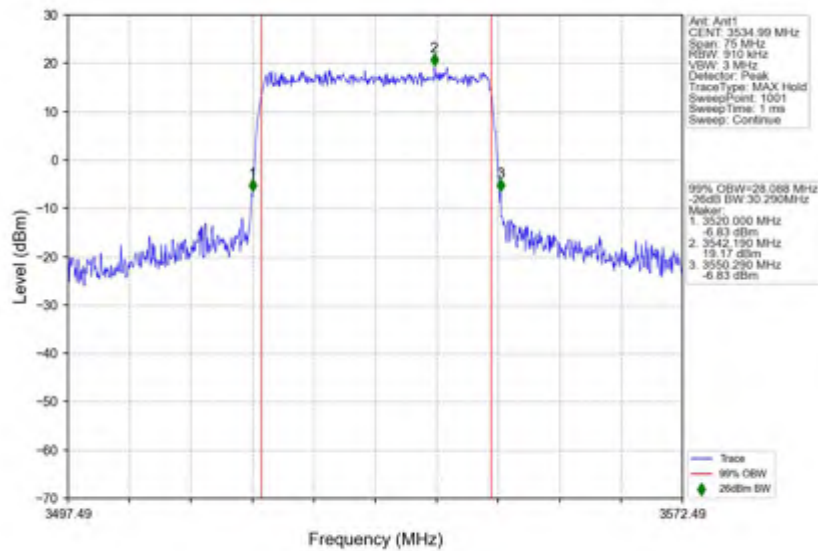
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 64 QAM 3465MHz\_Outer\_Full



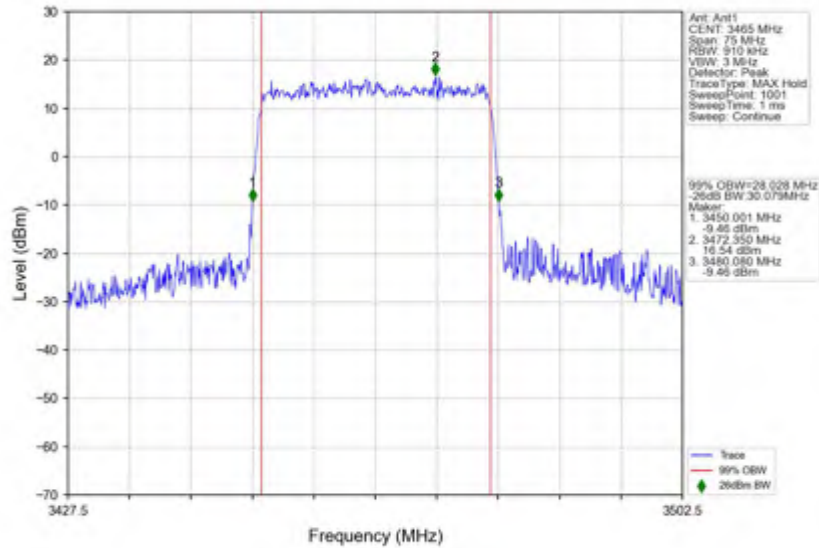
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 64 QAM\_3500.01MHz\_Outer\_Full



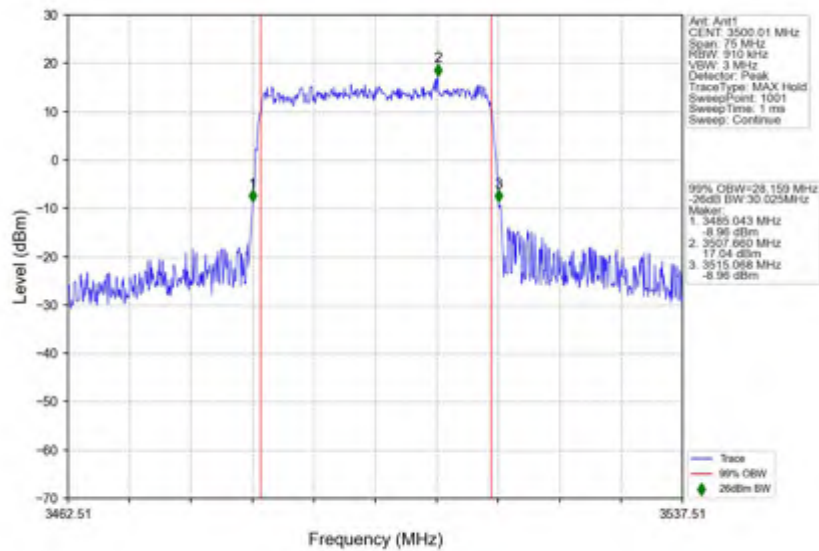
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 64 QAM\_3534.99MHz\_Outer\_Full



n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_256\_QAM\_3465MHz\_Outer\_Full

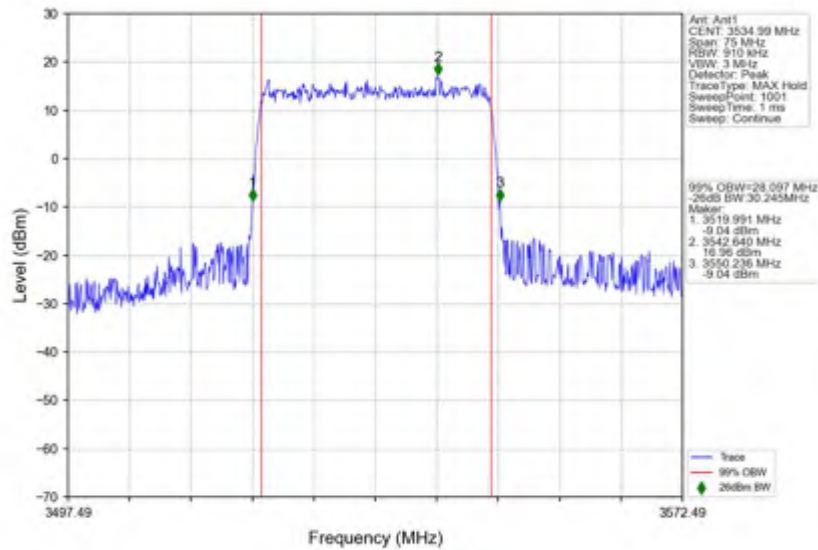


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full





n78(3450-3550MHz) 30kHz SISO NTN 30MHz CP-OFDM 256 QAM 3534.99MHz Outer Full





### 3.3 30k\_SISO\_40MHz\_NTNV

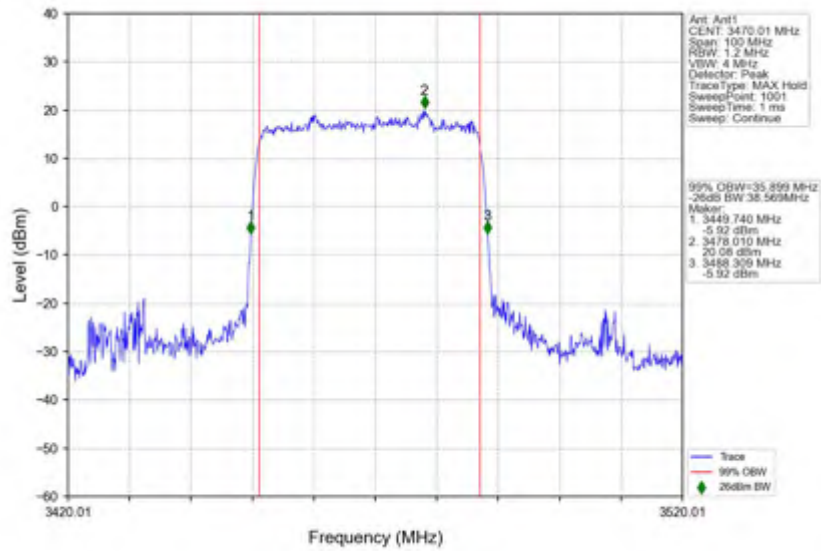
#### 3.3.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 40MHz NTN |                 |               |                     |                      |             |         |
|--------------------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK                             | 3470.01         | Outer_Full    | 35.90               | 38.57                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 35.98               | 38.71                | /           | Pass    |
|                                                  | 3529.98         | Outer_Full    | 35.91               | 38.73                | /           | Pass    |
| DFT-s-OFDM QPSK                                  | 3470.01         | Outer_Full    | 36.02               | 38.65                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 36.06               | 38.67                | /           | Pass    |
|                                                  | 3529.98         | Outer_Full    | 36.46               | 38.98                | /           | Pass    |
| DFT-s-OFDM 16 QAM                                | 3470.01         | Outer_Full    | 36.06               | 38.70                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 36.04               | 38.72                | /           | Pass    |
|                                                  | 3529.98         | Outer_Full    | 35.98               | 38.62                | /           | Pass    |
| DFT-s-OFDM 64 QAM                                | 3470.01         | Outer_Full    | 36.03               | 38.63                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 35.94               | 38.61                | /           | Pass    |
|                                                  | 3529.98         | Outer_Full    | 36.01               | 38.66                | /           | Pass    |
| DFT-s-OFDM 256 QAM                               | 3470.01         | Outer_Full    | 36.05               | 38.34                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 36.05               | 38.48                | /           | Pass    |
|                                                  | 3529.98         | Outer_Full    | 36.09               | 38.75                | /           | Pass    |
| CP-OFDM QPSK                                     | 3470.01         | Outer_Full    | 38.32               | 40.58                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 38.30               | 40.55                | /           | Pass    |
|                                                  | 3529.98         | Outer_Full    | 38.11               | 40.76                | /           | Pass    |
| CP-OFDM 16 QAM                                   | 3470.01         | Outer_Full    | 38.01               | 40.73                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 38.14               | 40.80                | /           | Pass    |
|                                                  | 3529.98         | Outer_Full    | 38.05               | 40.81                | /           | Pass    |
| CP-OFDM 64 QAM                                   | 3470.01         | Outer_Full    | 38.20               | 40.94                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 38.09               | 40.79                | /           | Pass    |
|                                                  | 3529.98         | Outer_Full    | 38.14               | 40.82                | /           | Pass    |
| CP-OFDM 256 QAM                                  | 3470.01         | Outer_Full    | 38.43               | 40.19                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 38.20               | 40.59                | /           | Pass    |
|                                                  | 3529.98         | Outer_Full    | 38.45               | 40.20                | /           | Pass    |

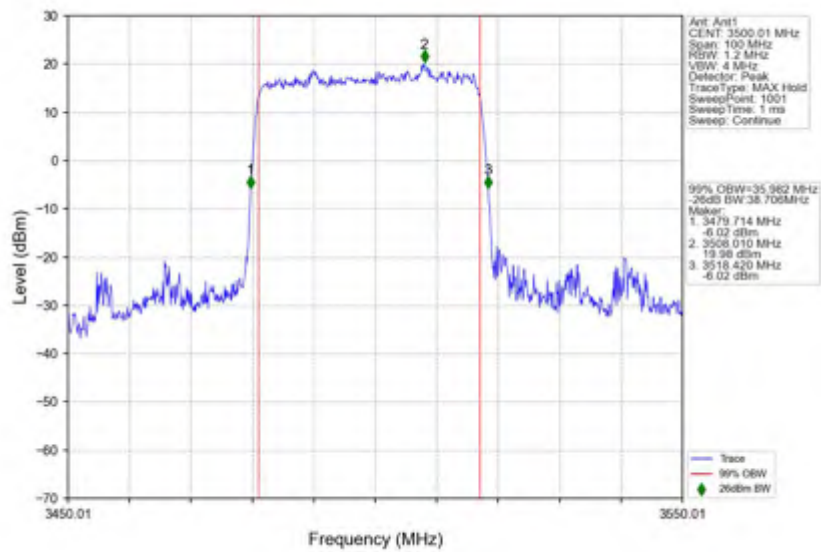


### 3.3.2 Test Graph

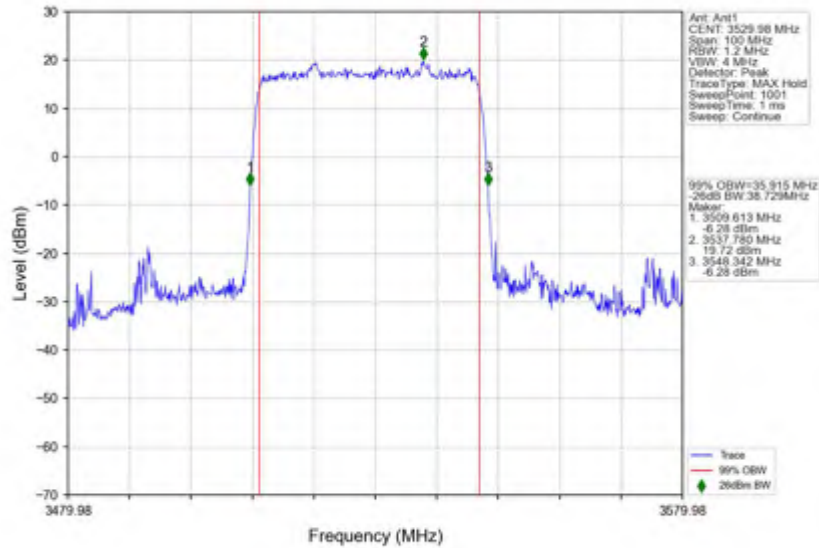
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_3470.01MHz\_Outer\_Full



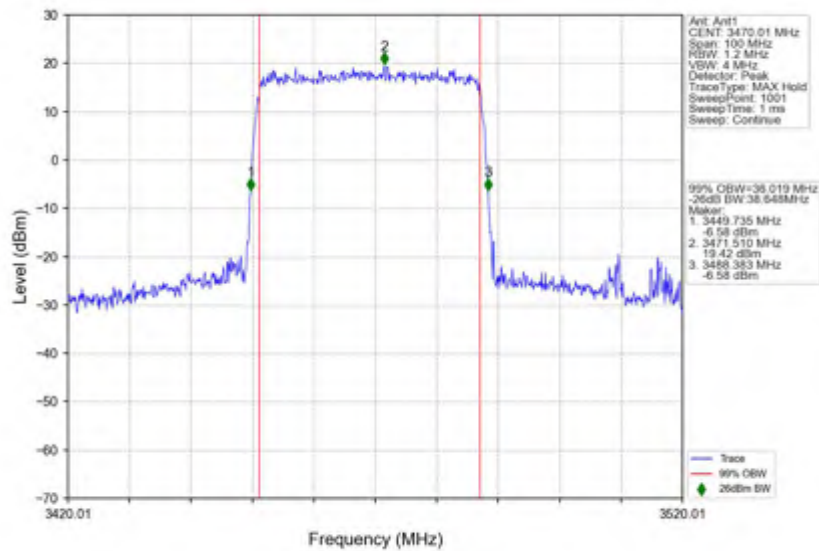
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_3500.01MHz\_Outer\_Full



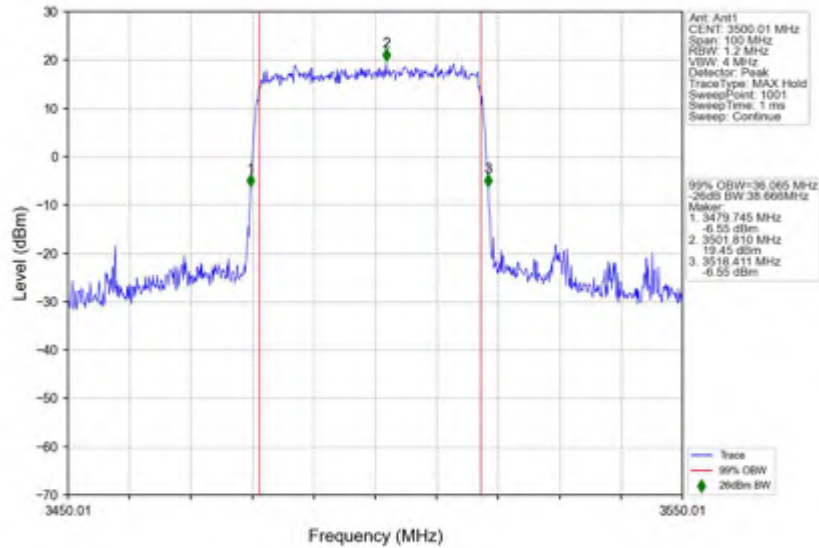
n78(3450-3550MHz) 30kHz SISO NTN 40MHz DFT-s-OFDM PI/2 BPSK 3529.98MHz Outer Full



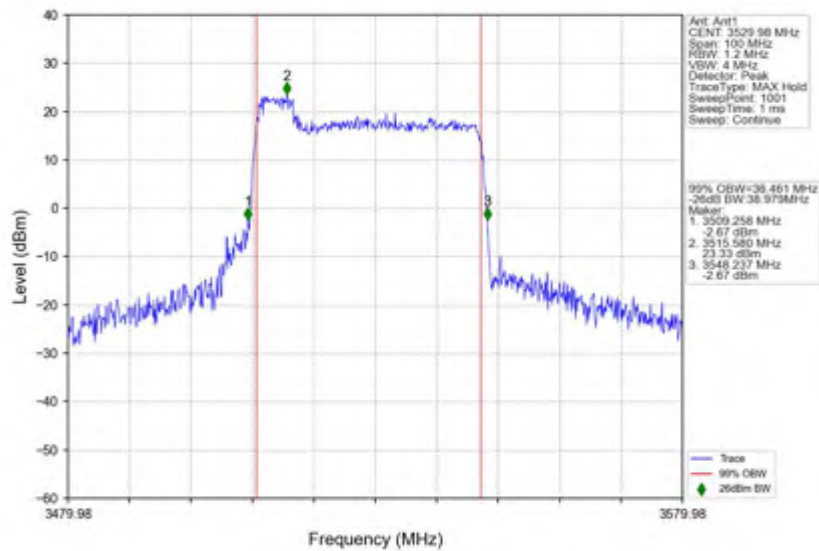
n78(3450-3550MHz) 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3470.01MHz Outer Full



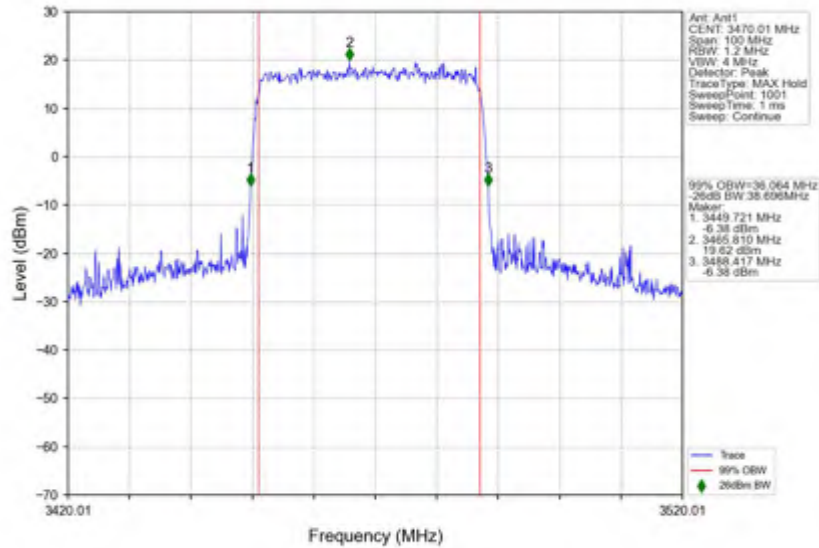
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_QPSK\_3500.01MHz\_Outer\_Full



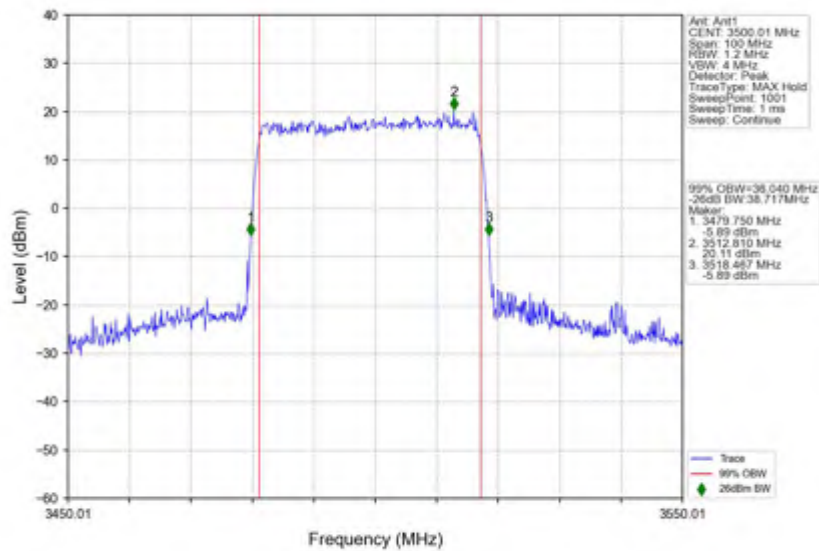
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_QPSK\_3529.98MHz\_Outer\_Full



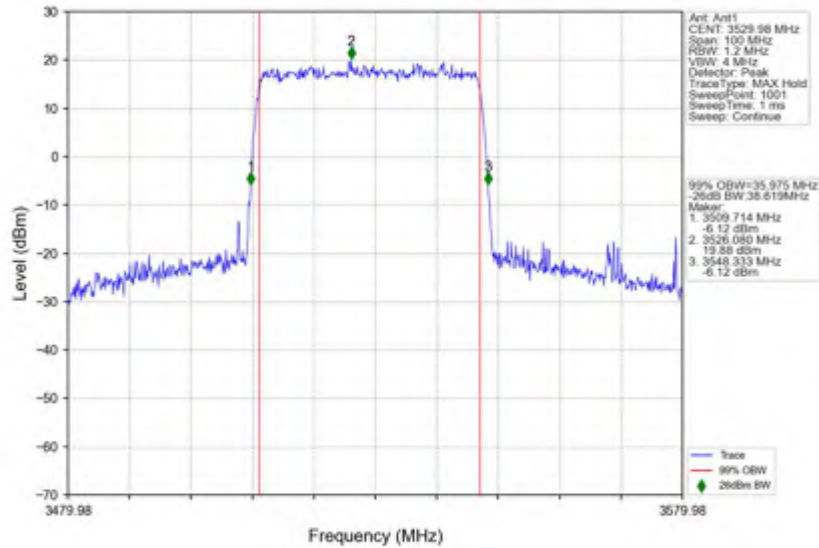
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_16\_QAM\_3470.01MHz\_Outer\_Full



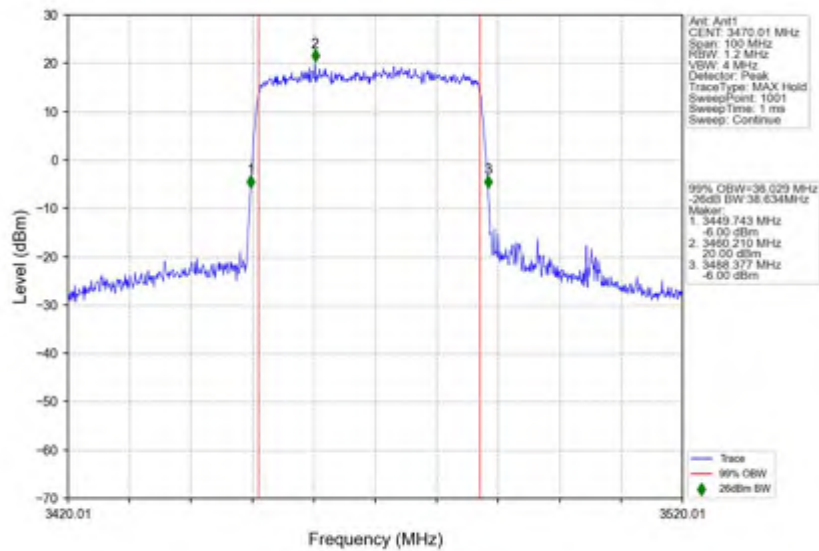
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full



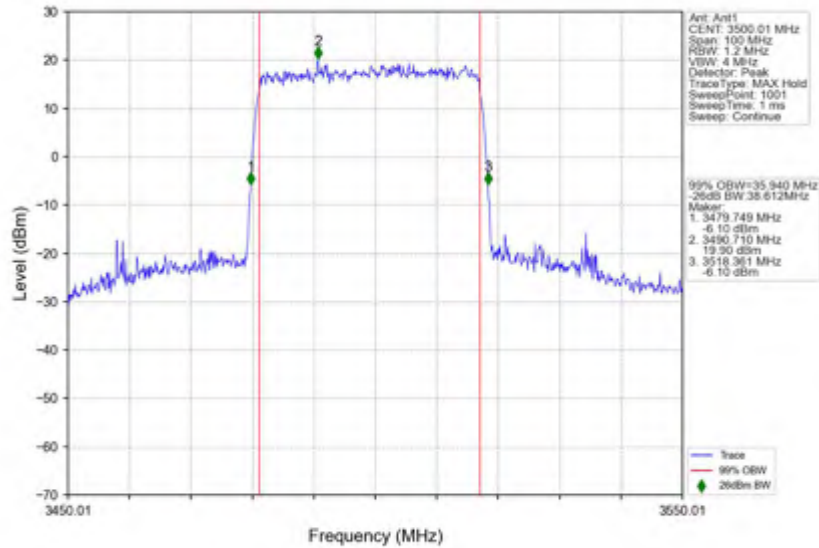
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_16\_QAM\_3529.98MHz\_Outer\_Full



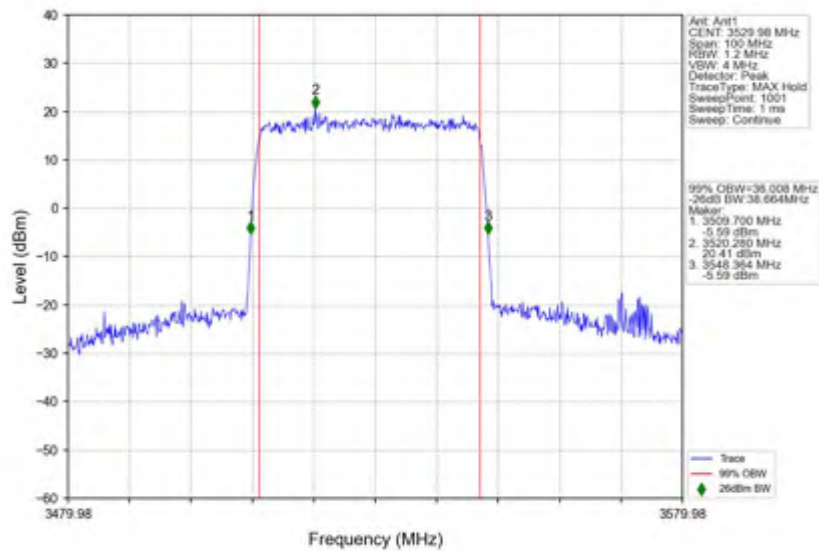
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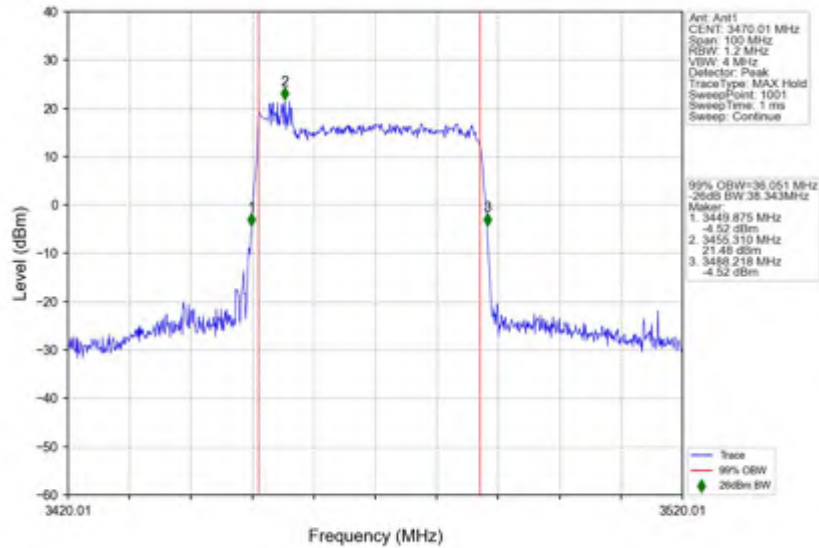
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_64\_QAM\_3500.01MHz\_Outer\_Full



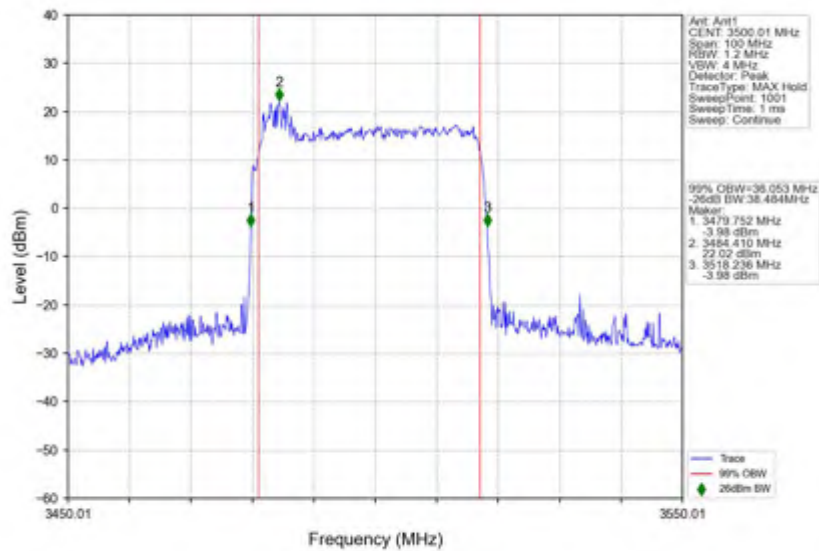
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_64\_QAM\_3529.98MHz\_Outer\_Full



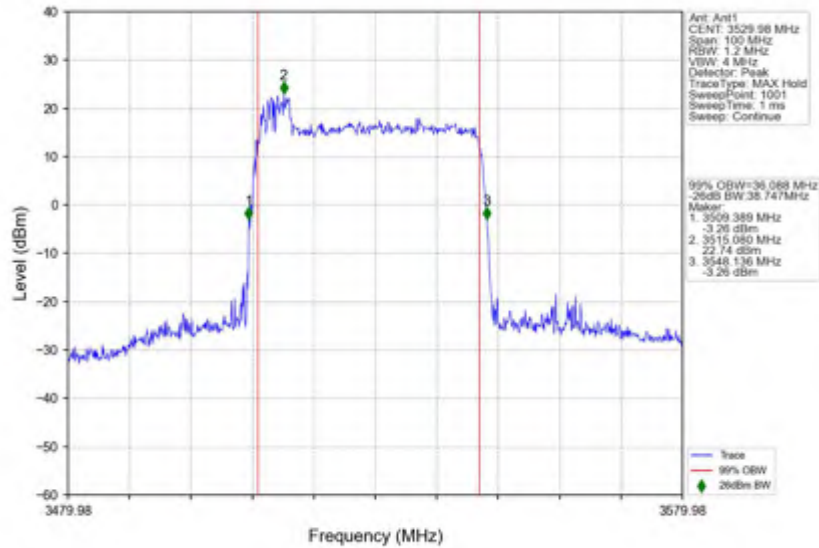
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_256\_QAM\_3470.01MHz\_Outer\_Full



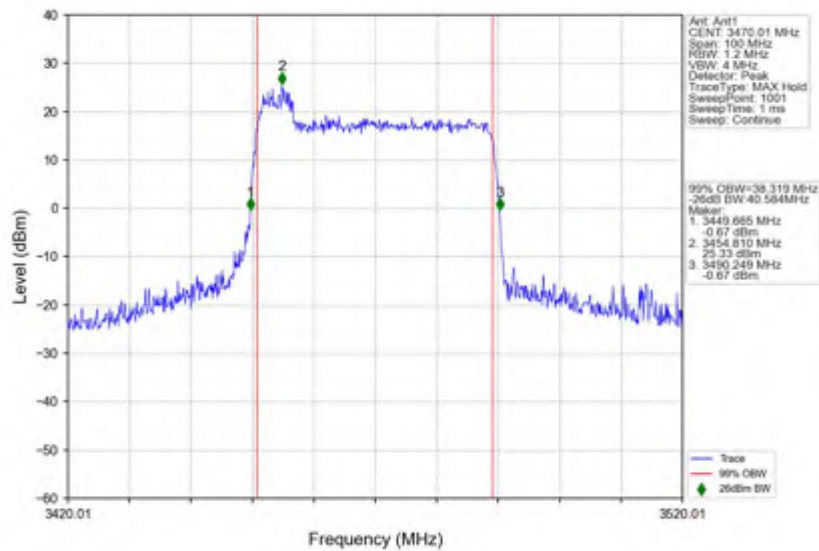
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full



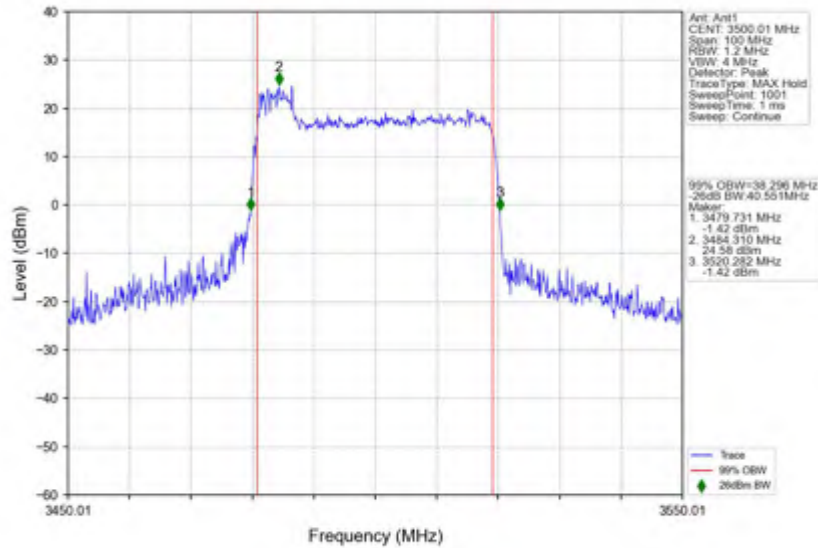
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_256\_QAM\_3529.98MHz\_Outer\_Full



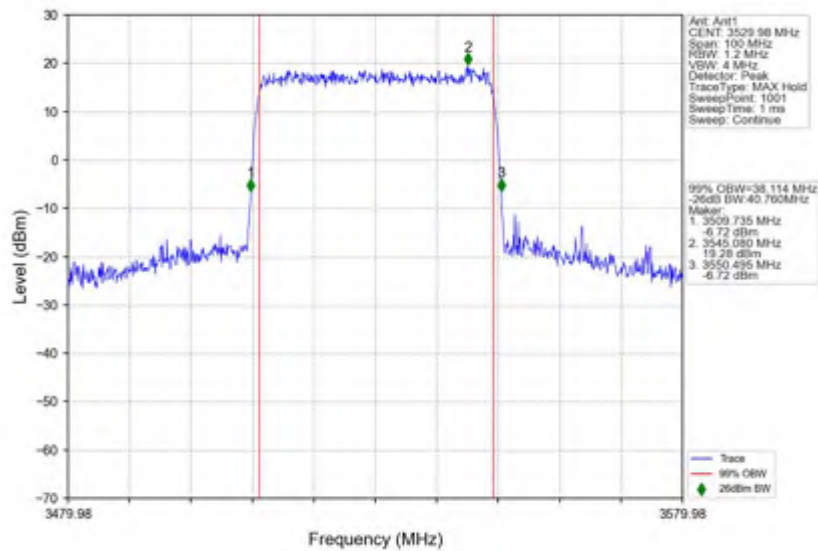
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM\_QPSK\_3470.01MHz\_Outer\_Full



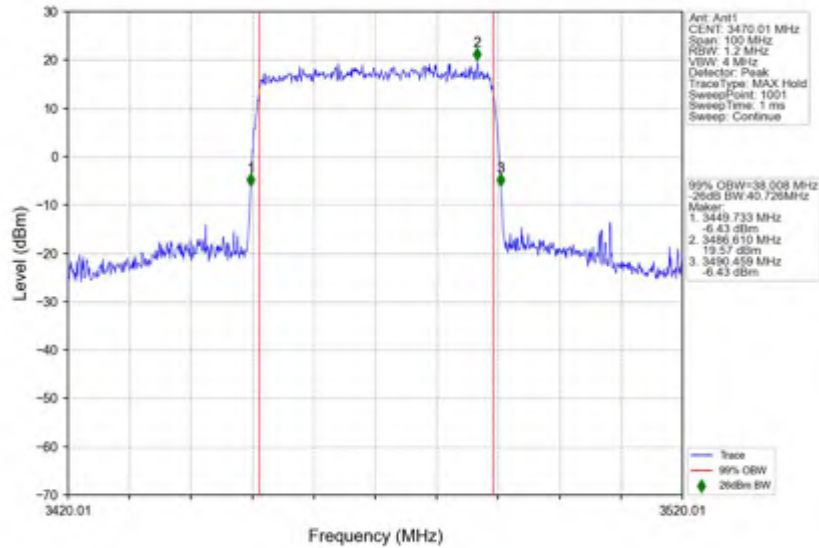
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM\_QPSK\_3500.01MHz\_Outer\_Full



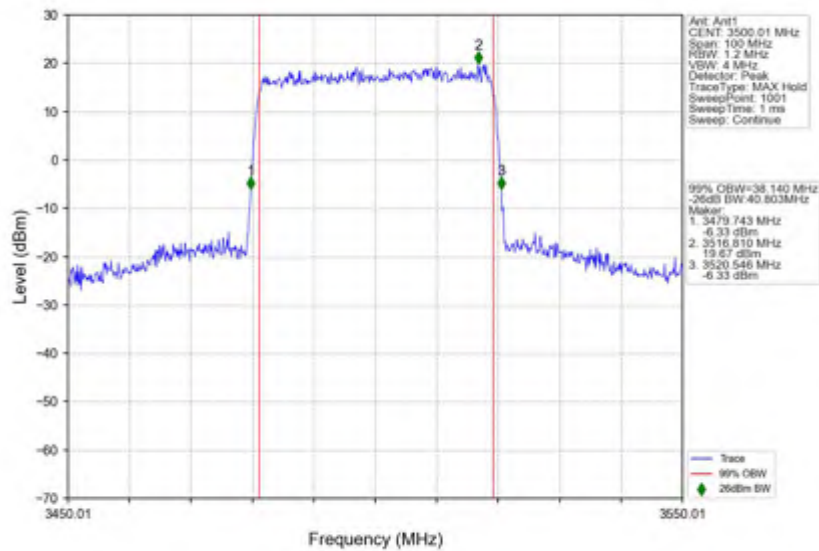
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM\_QPSK\_3529.98MHz\_Outer\_Full



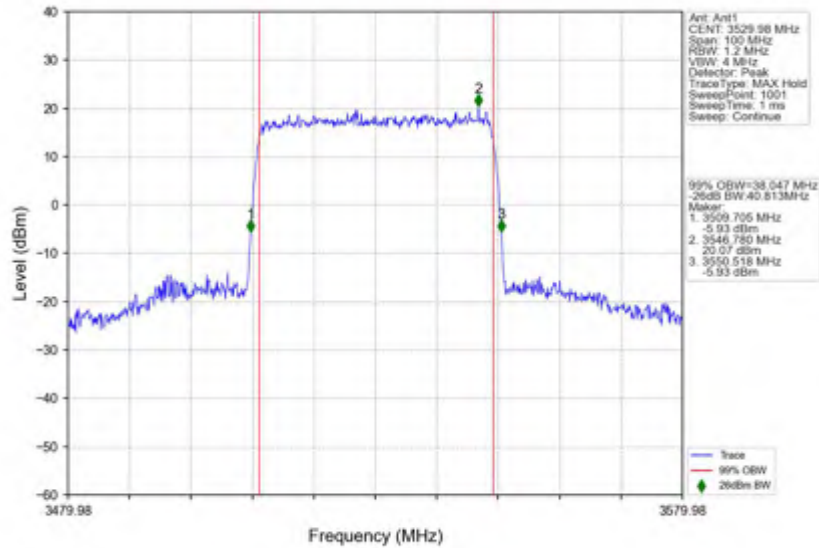
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM\_16\_QAM\_3470.01MHz\_Outer\_Full



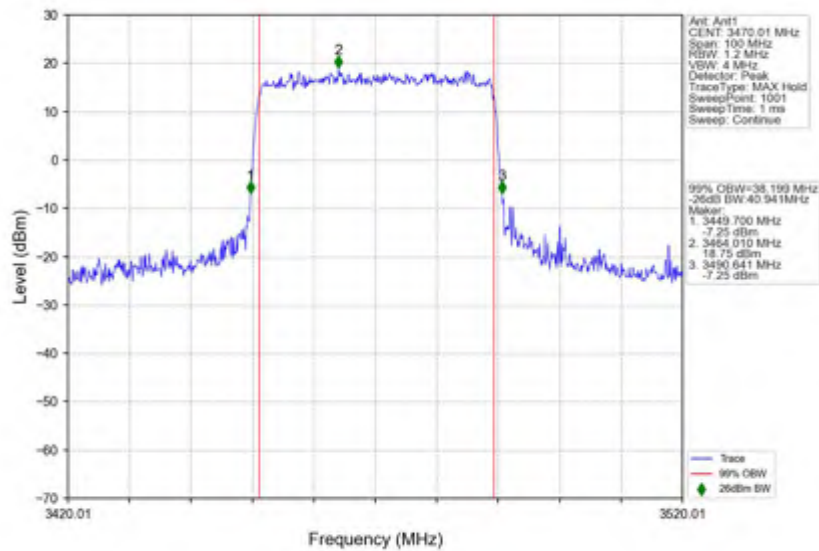
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full



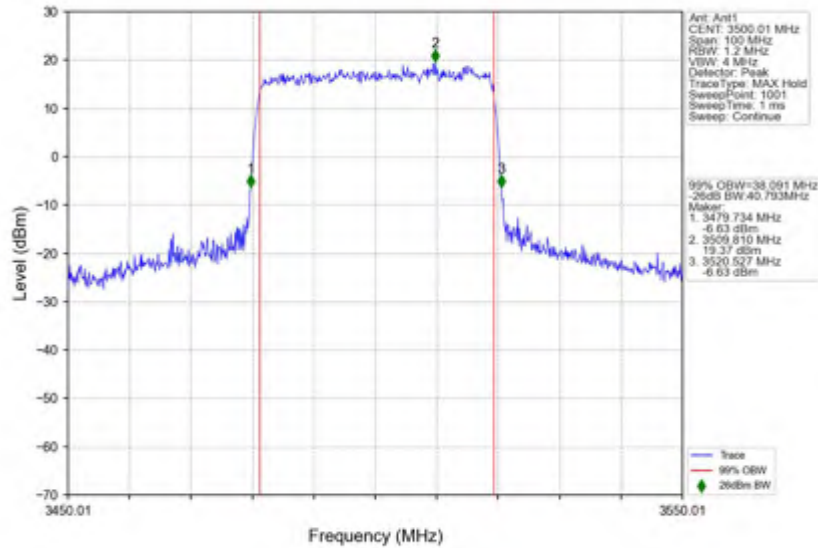
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 16 QAM\_3529.98MHz\_Outer\_Full



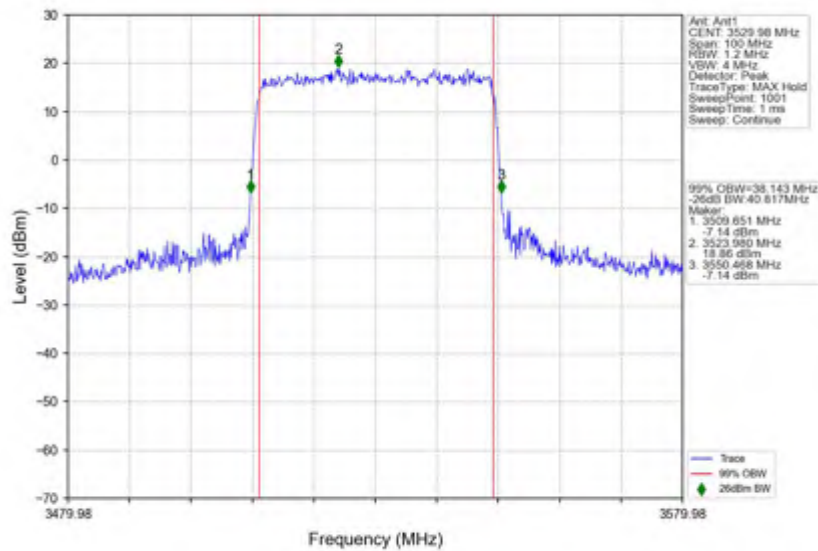
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 64 QAM\_3470.01MHz\_Outer\_Full



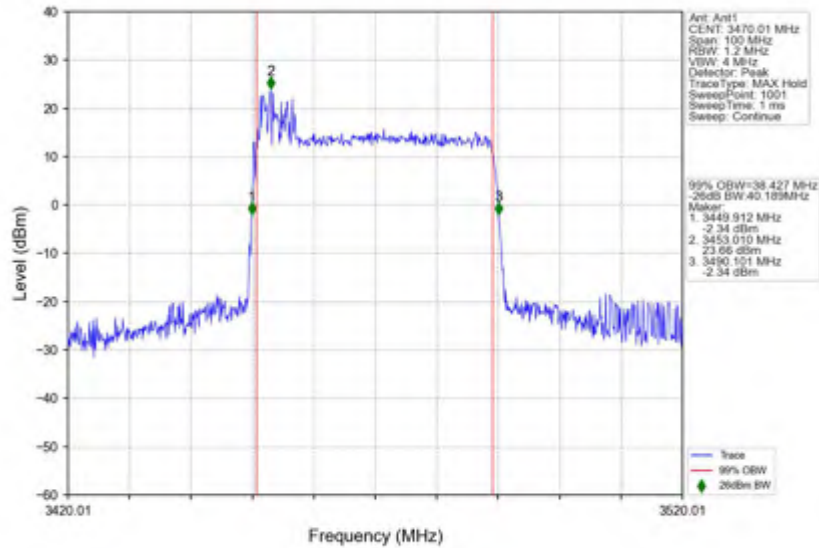
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 64 QAM\_3500.01MHz\_Outer\_Full



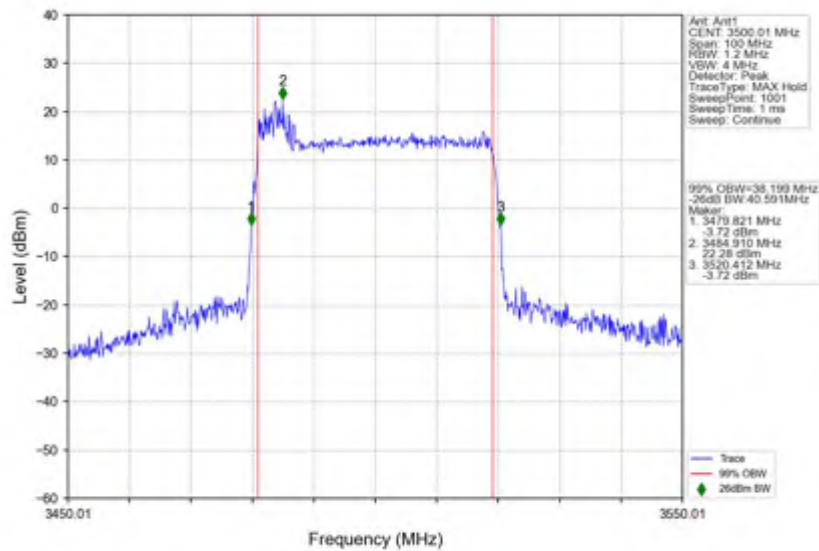
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 64 QAM\_3529.98MHz\_Outer\_Full



n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 256 QAM\_3470.01MHz\_Outer\_Full

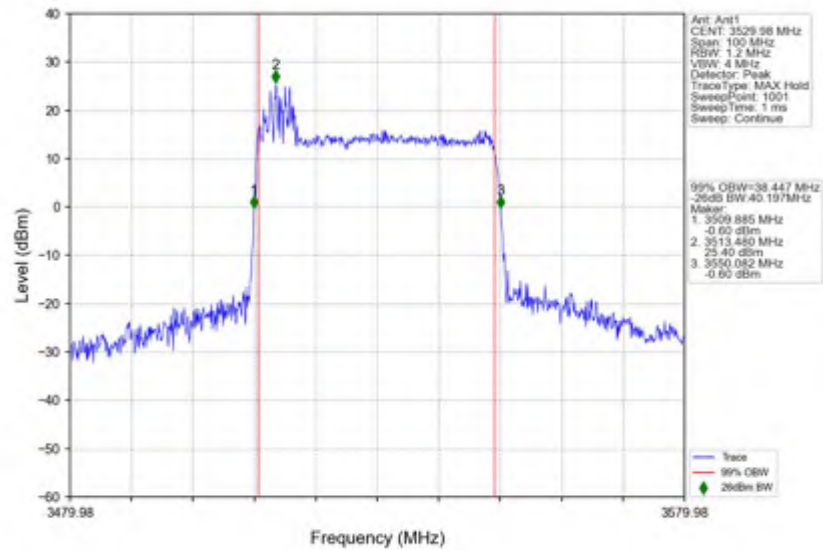


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 256 QAM\_3500.01MHz\_Outer\_Full





n78(3450-3550MHz) 30kHz SISO NTV 40MHz CP-OFDM 256 QAM 3529.98MHz Outer Full





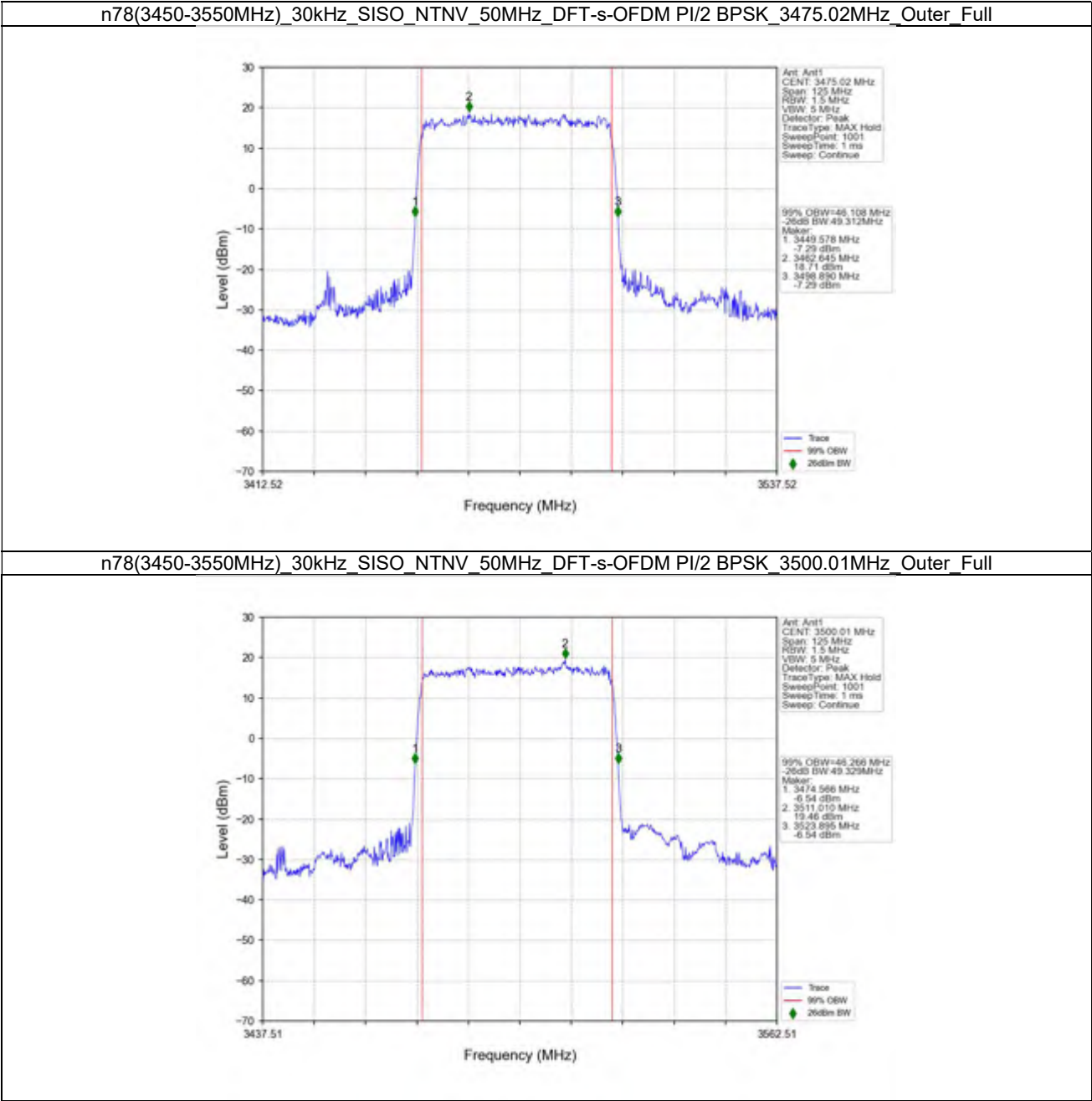
### 3.4 30k\_SISO\_50MHz\_NTNV

#### 3.4.1 Test Result

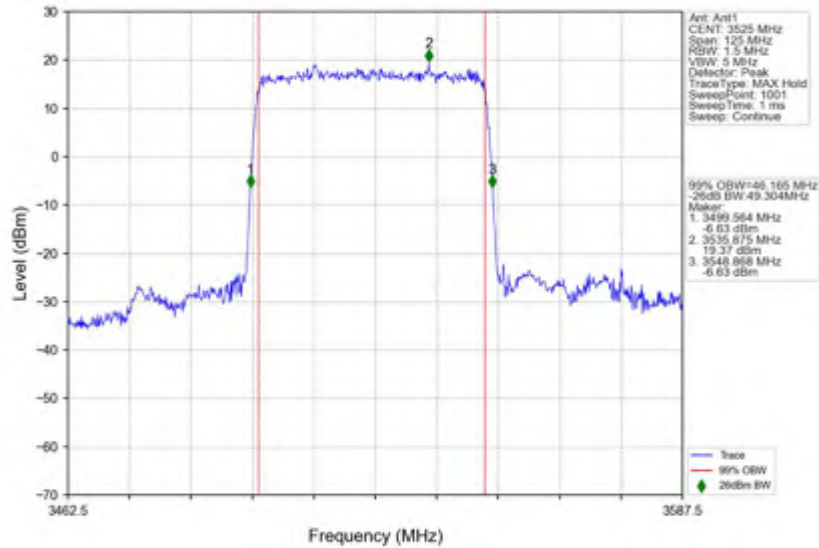
| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 50MHz NTN |                 |               |                     |                      |             |         |
|--------------------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK                             | 3475.02         | Outer_Full    | 46.11               | 49.31                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 46.27               | 49.33                | /           | Pass    |
|                                                  | 3525            | Outer_Full    | 46.16               | 49.30                | /           | Pass    |
| DFT-s-OFDM QPSK                                  | 3475.02         | Outer_Full    | 46.09               | 49.33                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 46.06               | 49.39                | /           | Pass    |
|                                                  | 3525            | Outer_Full    | 46.07               | 49.35                | /           | Pass    |
| DFT-s-OFDM 16 QAM                                | 3475.02         | Outer_Full    | 46.10               | 49.45                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 46.40               | 49.45                | /           | Pass    |
|                                                  | 3525            | Outer_Full    | 46.26               | 49.40                | /           | Pass    |
| DFT-s-OFDM 64 QAM                                | 3475.02         | Outer_Full    | 46.01               | 49.30                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 46.14               | 49.38                | /           | Pass    |
|                                                  | 3525            | Outer_Full    | 45.98               | 49.34                | /           | Pass    |
| DFT-s-OFDM 256 QAM                               | 3475.02         | Outer_Full    | 46.08               | 49.35                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 45.90               | 48.69                | /           | Pass    |
|                                                  | 3525            | Outer_Full    | 46.52               | 48.97                | /           | Pass    |
| CP-OFDM QPSK                                     | 3475.02         | Outer_Full    | 48.14               | 50.59                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 47.57               | 50.34                | /           | Pass    |
|                                                  | 3525            | Outer_Full    | 47.89               | 51.06                | /           | Pass    |
| CP-OFDM 16 QAM                                   | 3475.02         | Outer_Full    | 48.24               | 50.85                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 47.85               | 51.00                | /           | Pass    |
|                                                  | 3525            | Outer_Full    | 47.85               | 50.59                | /           | Pass    |
| CP-OFDM 64 QAM                                   | 3475.02         | Outer_Full    | 47.81               | 51.14                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 47.83               | 51.12                | /           | Pass    |
|                                                  | 3525            | Outer_Full    | 47.83               | 51.27                | /           | Pass    |
| CP-OFDM 256 QAM                                  | 3475.02         | Outer_Full    | 47.78               | 51.16                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 47.78               | 51.13                | /           | Pass    |
|                                                  | 3525            | Outer_Full    | 48.15               | 50.44                | /           | Pass    |



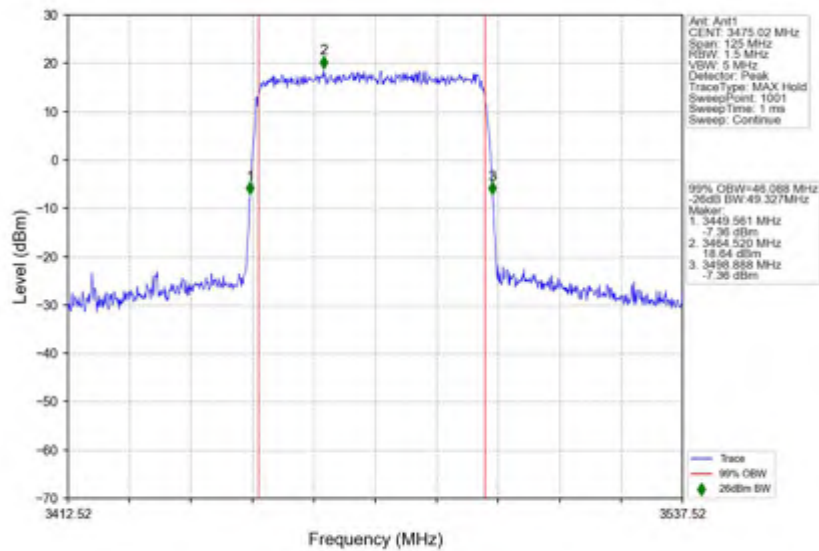
3.4.2 Test Graph



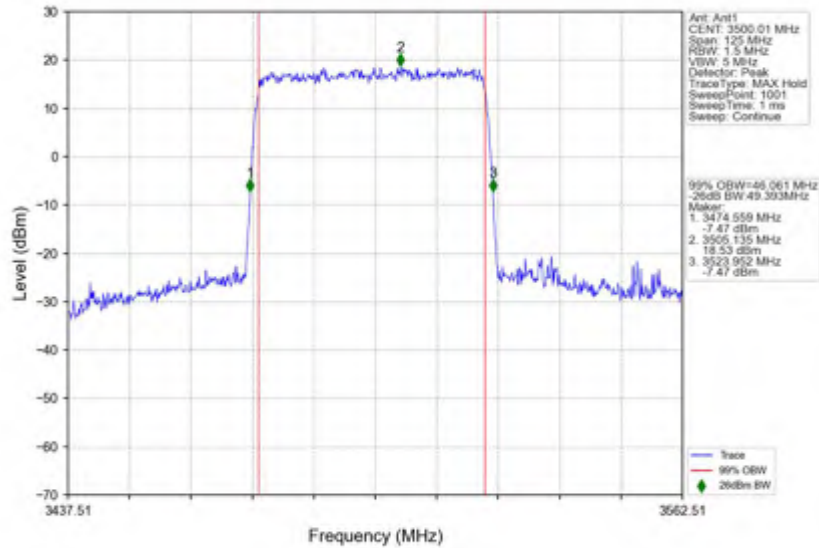
n78(3450-3550MHz) 30kHz SISO NTN 50MHz DFT-s-OFDM PI/2 BPSK 3525MHz Outer Full



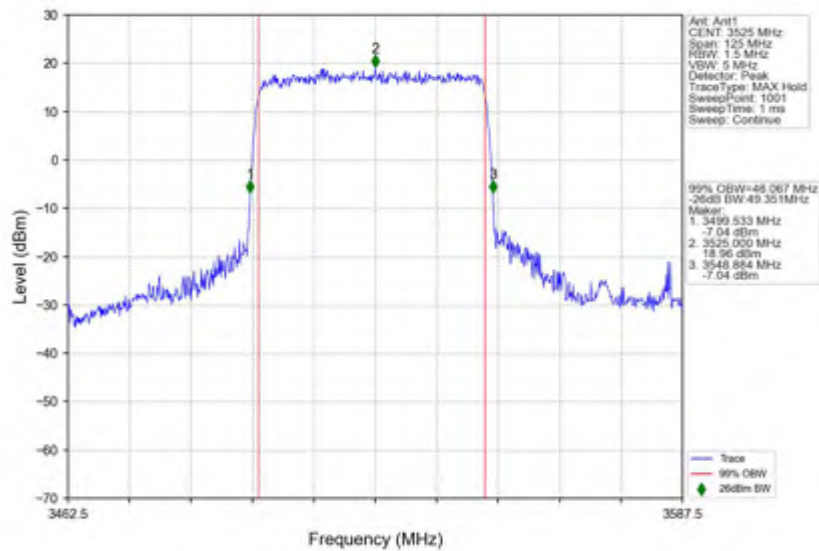
n78(3450-3550MHz) 30kHz SISO NTN 50MHz DFT-s-OFDM QPSK 3475.02MHz Outer Full



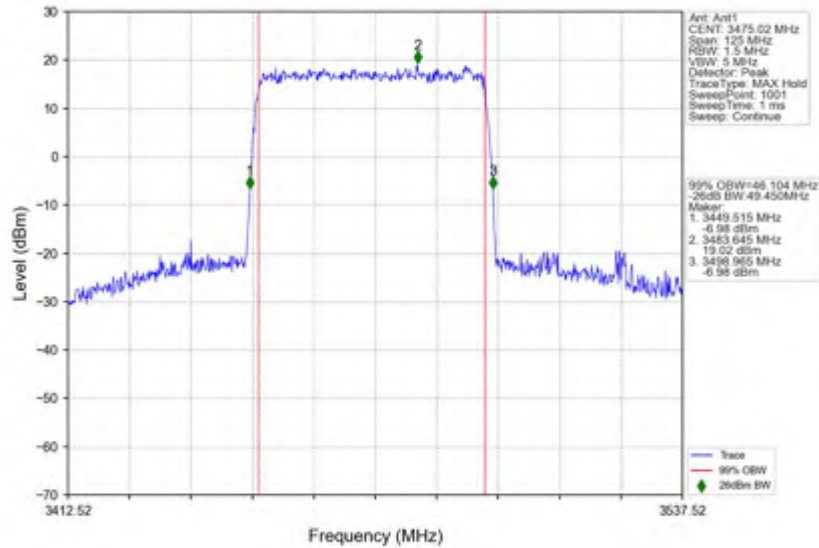
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM\_QPSK\_3500.01MHz\_Outer\_Full



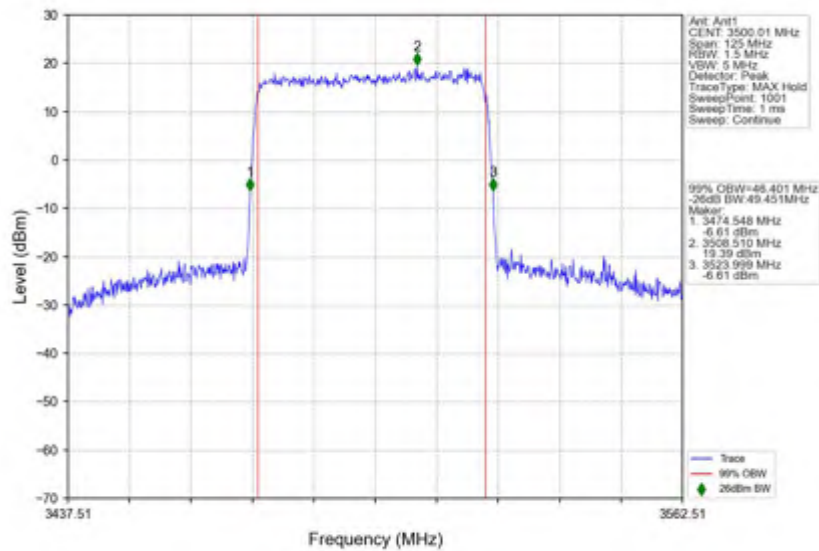
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM\_QPSK\_3525MHz\_Outer\_Full



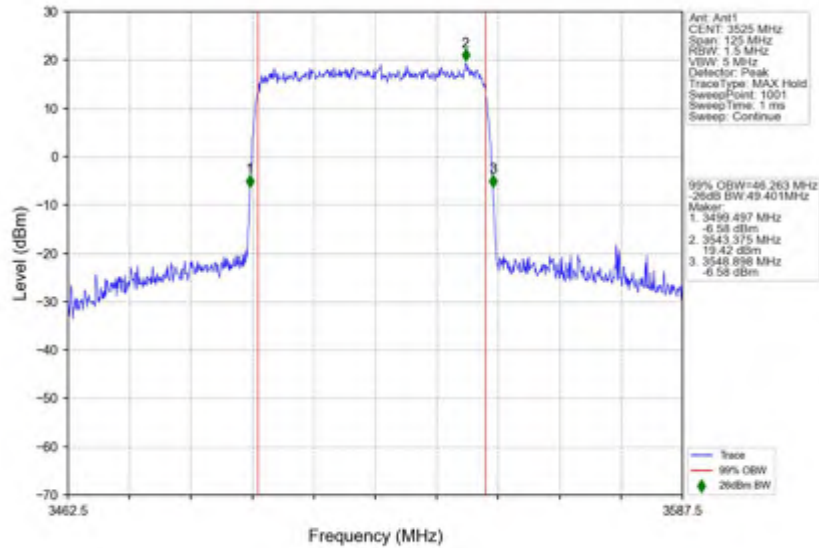
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM\_16\_QAM\_3475.02MHz\_Outer\_Full



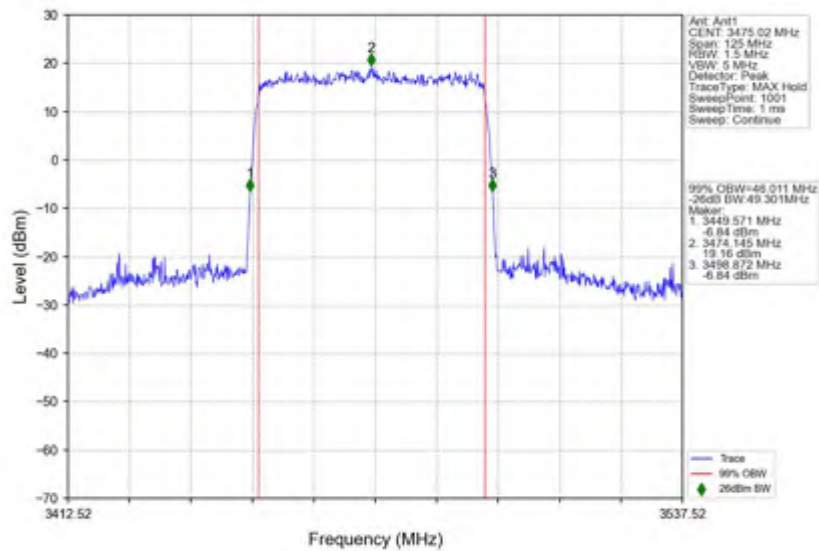
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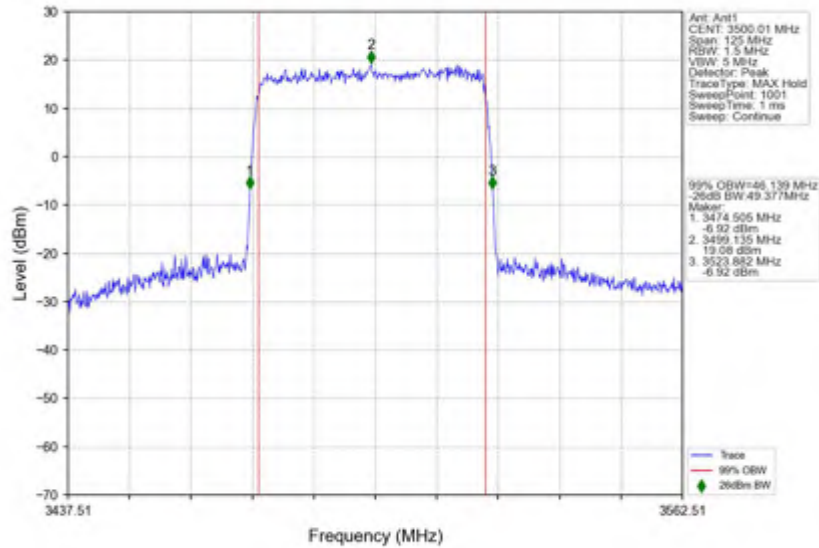
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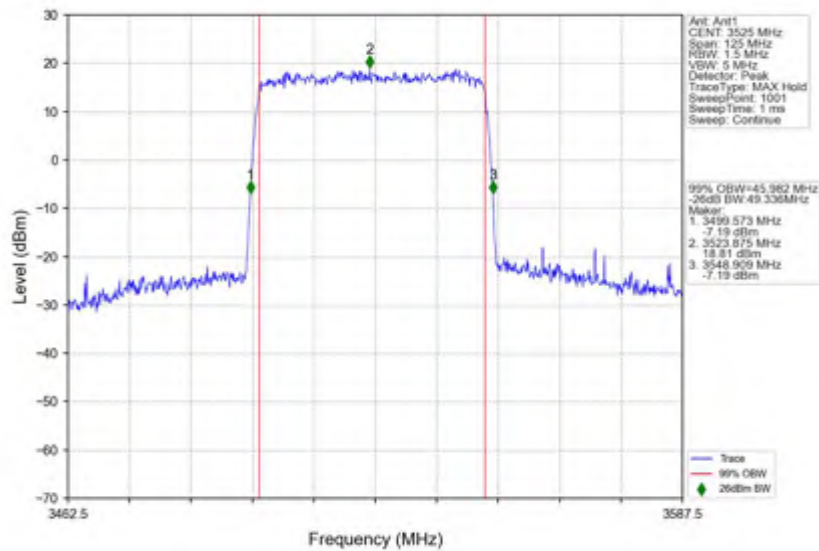
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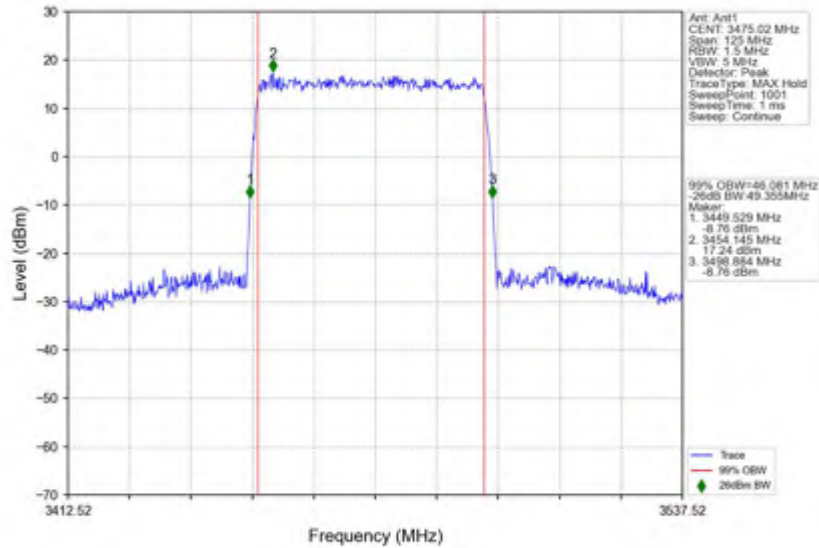
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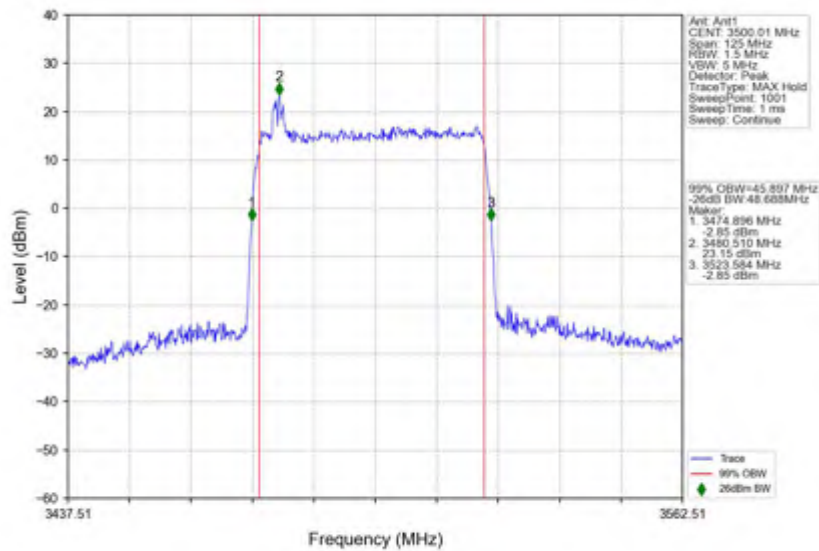
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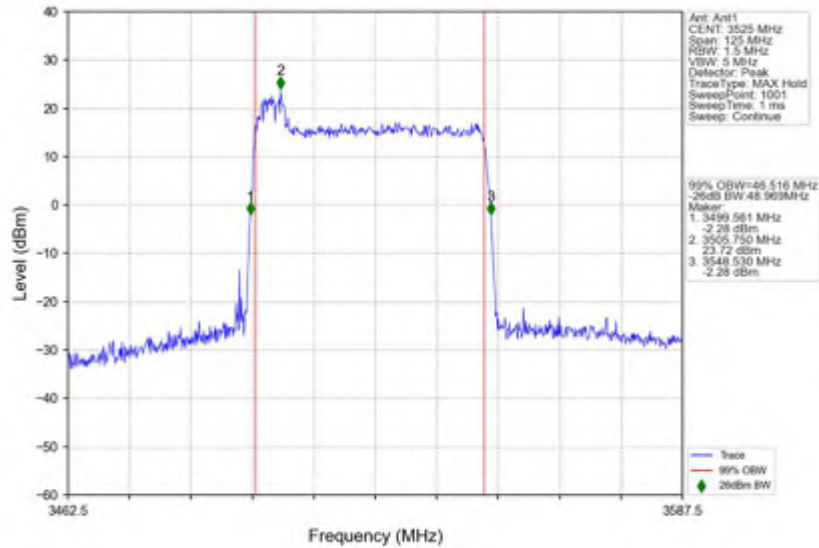
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM\_256\_QAM\_3475.02MHz\_Outer\_Full



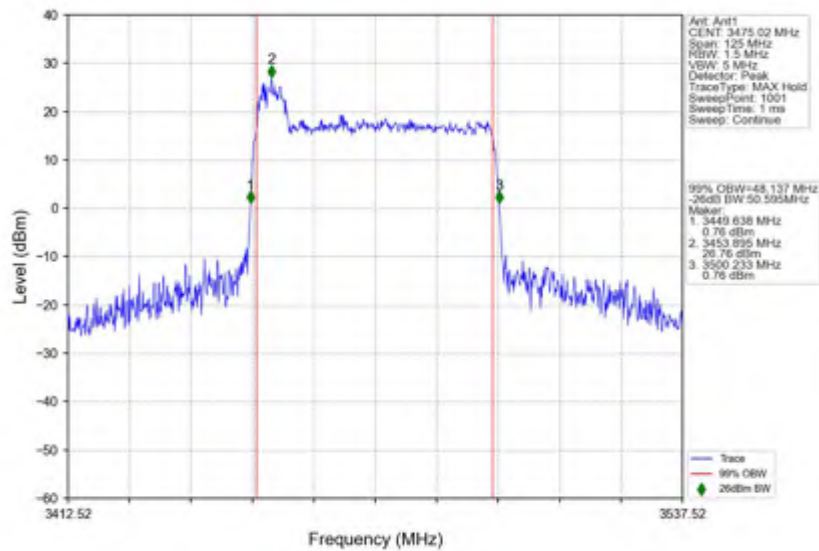
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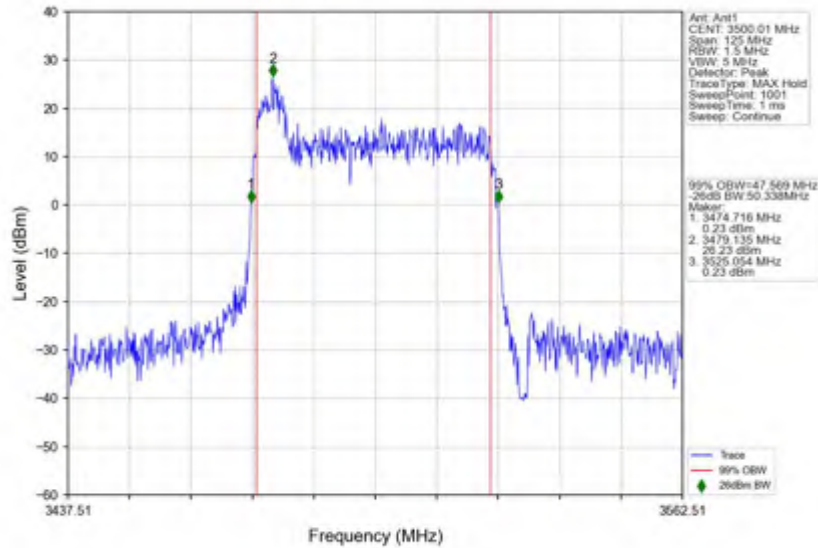
n78(3450-3550MHz) 30kHz SISO\_NTNV\_50MHz DFT-s-OFDM 256 QAM 3525MHz Outer\_Full



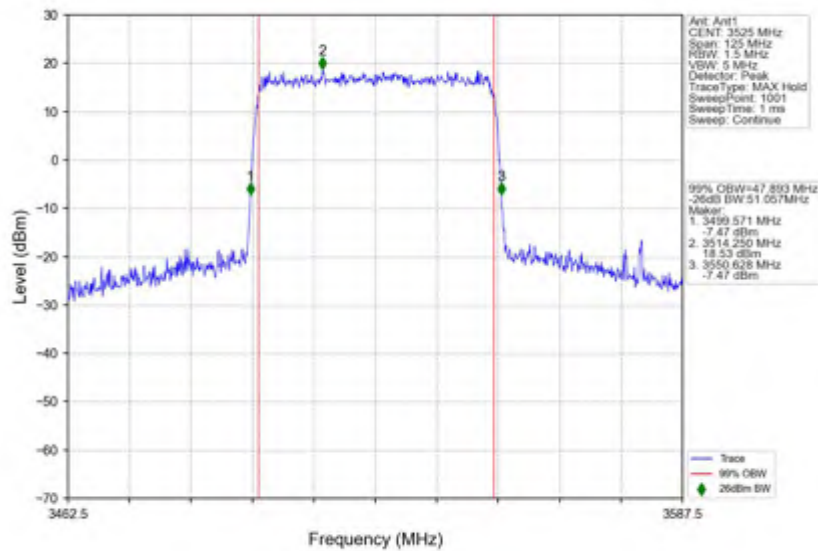
n78(3450-3550MHz) 30kHz SISO\_NTNV\_50MHz CP-OFDM QPSK 3475.02MHz Outer\_Full



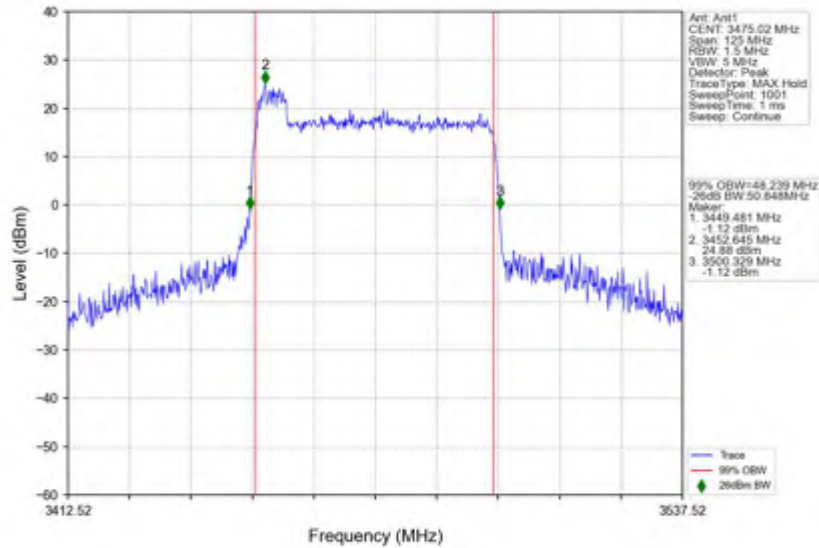
n78(3450-3550MHz) 30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM QPSK\_3500.01MHz\_Outer\_Full



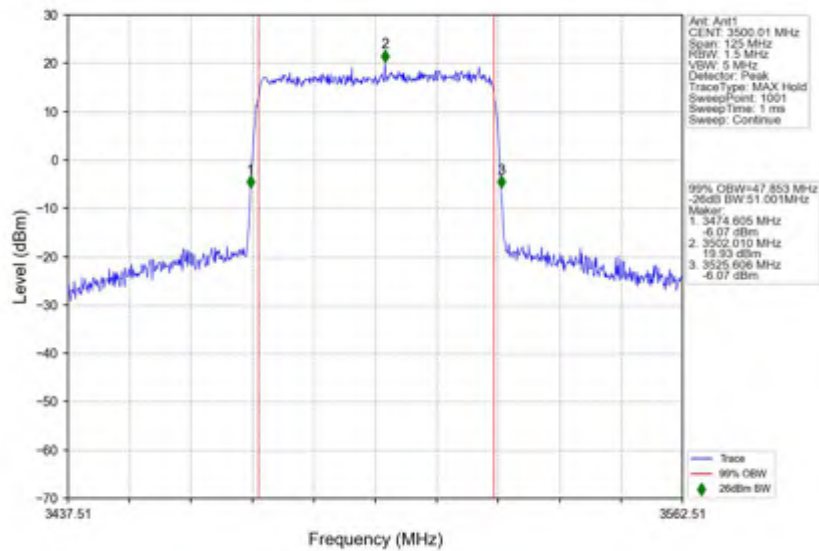
n78(3450-3550MHz) 30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM QPSK\_3525MHz\_Outer\_Full



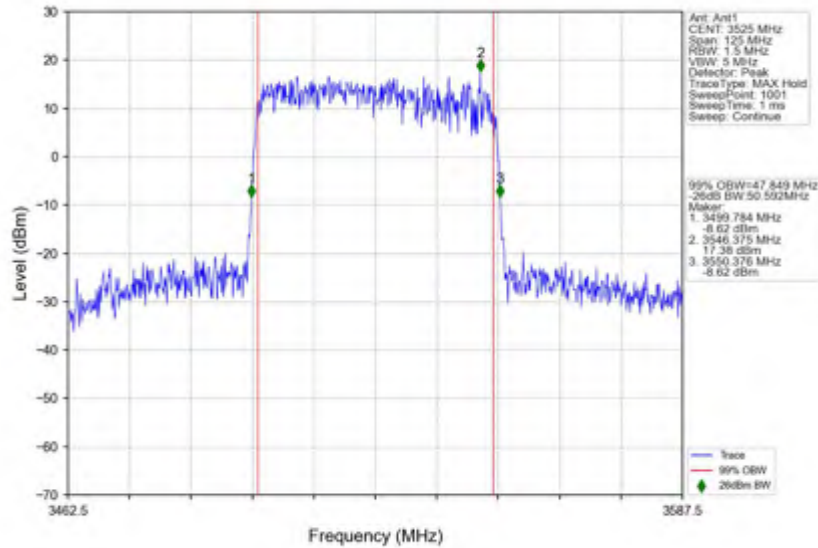
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM\_16\_QAM\_3475.02MHz\_Outer\_Full



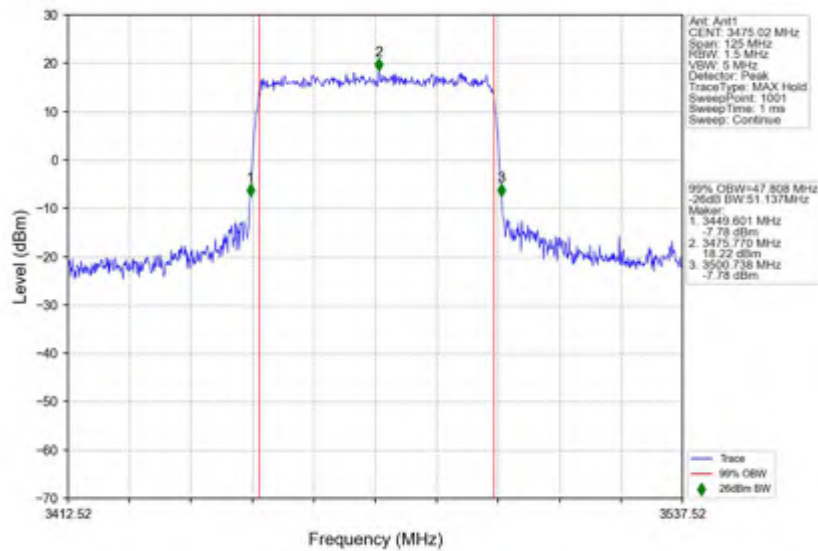
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full



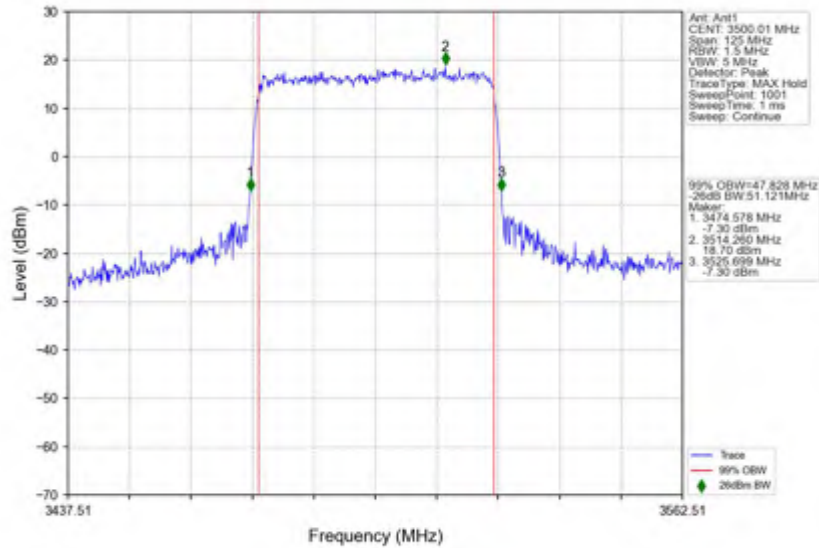
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM 16 QAM 3525MHz\_Outer\_Full



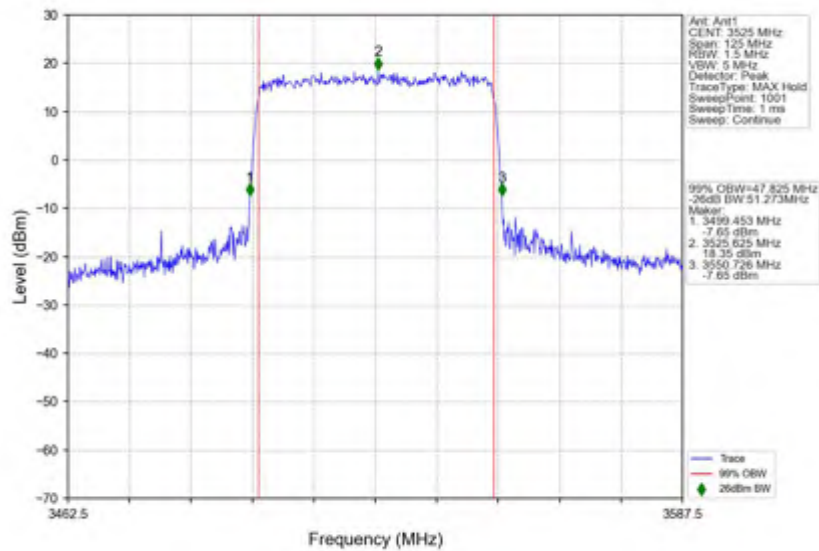
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM 64 QAM 3475.02MHz\_Outer\_Full



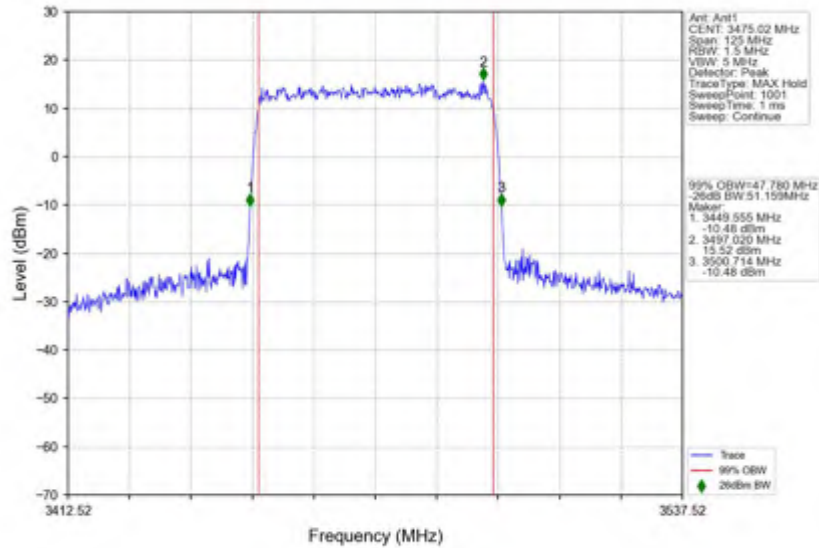
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM 64 QAM\_3500.01MHz\_Outer\_Full



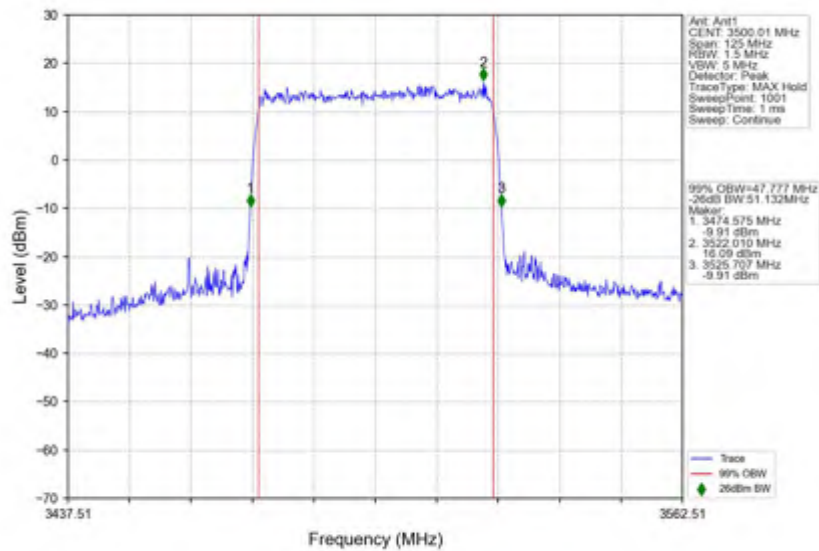
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM 64 QAM\_3525MHz\_Outer\_Full



n78(3450-3550MHz) 30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM 256 QAM 3475.02MHz\_Outer\_Full

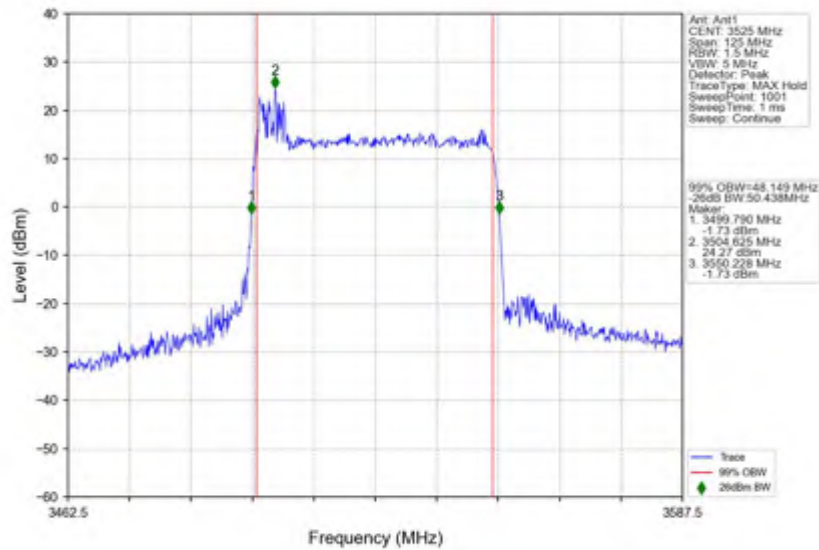


n78(3450-3550MHz) 30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM 256 QAM 3500.01MHz\_Outer\_Full





n78(3450-3550MHz) 30kHz SISO\_NTNV\_50MHz CP-OFDM 256 QAM 3525MHz Outer Full





### 3.5 30k\_SISO\_60MHz\_NTNV

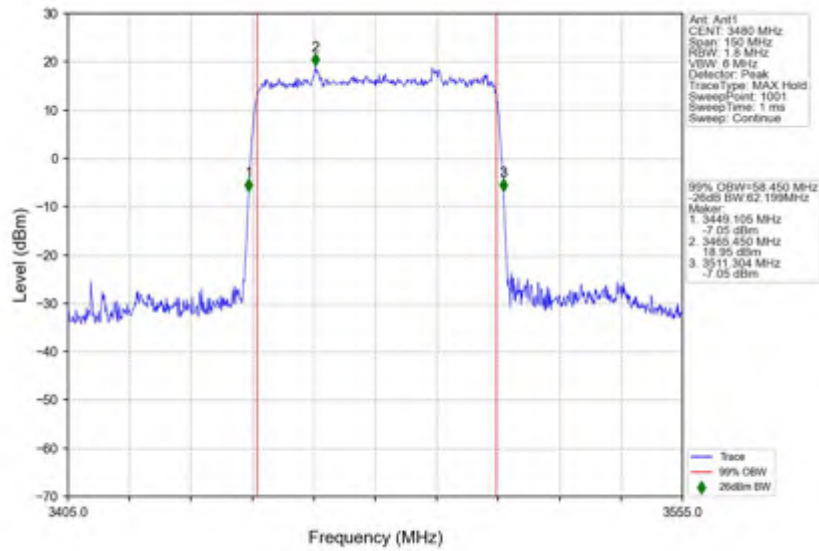
#### 3.5.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 60MHz NTN |                 |               |                     |                      |             |         |
|--------------------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK                             | 3480            | Outer_Full    | 58.45               | 62.20                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 58.33               | 62.20                | /           | Pass    |
|                                                  | 3519.99         | Outer_Full    | 58.18               | 62.19                | /           | Pass    |
| DFT-s-OFDM QPSK                                  | 3480            | Outer_Full    | 58.39               | 62.30                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 58.48               | 62.24                | /           | Pass    |
|                                                  | 3519.99         | Outer_Full    | 58.21               | 62.26                | /           | Pass    |
| DFT-s-OFDM 16 QAM                                | 3480            | Outer_Full    | 58.23               | 62.45                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 58.26               | 62.45                | /           | Pass    |
|                                                  | 3519.99         | Outer_Full    | 58.20               | 62.27                | /           | Pass    |
| DFT-s-OFDM 64 QAM                                | 3480            | Outer_Full    | 58.38               | 62.29                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 58.26               | 62.35                | /           | Pass    |
|                                                  | 3519.99         | Outer_Full    | 58.22               | 62.27                | /           | Pass    |
| DFT-s-OFDM 256 QAM                               | 3480            | Outer_Full    | 58.15               | 62.18                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 58.20               | 62.19                | /           | Pass    |
|                                                  | 3519.99         | Outer_Full    | 58.14               | 62.07                | /           | Pass    |
| CP-OFDM QPSK                                     | 3480            | Outer_Full    | 58.86               | 62.03                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 58.41               | 61.80                | /           | Pass    |
|                                                  | 3519.99         | Outer_Full    | 58.18               | 62.17                | /           | Pass    |
| CP-OFDM 16 QAM                                   | 3480            | Outer_Full    | 58.31               | 62.41                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 58.22               | 62.40                | /           | Pass    |
|                                                  | 3519.99         | Outer_Full    | 58.33               | 62.26                | /           | Pass    |
| CP-OFDM 64 QAM                                   | 3480            | Outer_Full    | 58.27               | 62.30                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 58.27               | 62.21                | /           | Pass    |
|                                                  | 3519.99         | Outer_Full    | 58.26               | 62.21                | /           | Pass    |
| CP-OFDM 256 QAM                                  | 3480            | Outer_Full    | 58.59               | 61.59                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 58.59               | 61.15                | /           | Pass    |
|                                                  | 3519.99         | Outer_Full    | 58.05               | 62.21                | /           | Pass    |

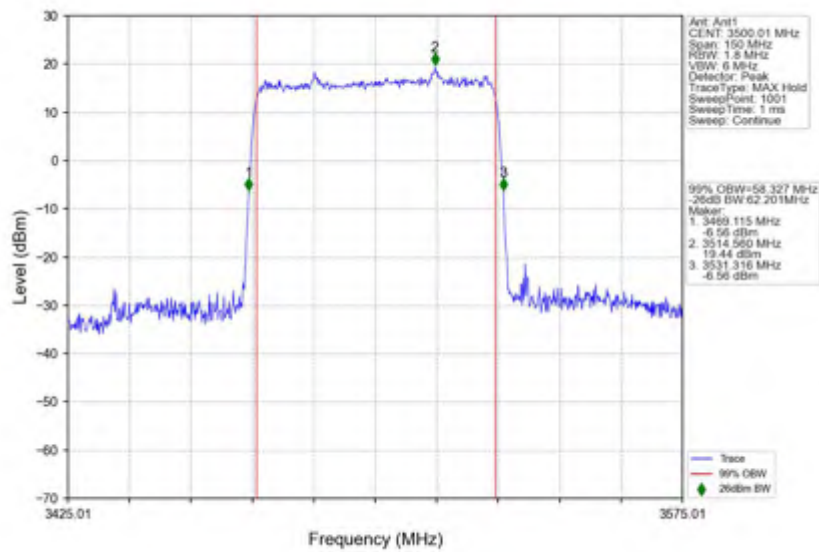


### 3.5.2 Test Graph

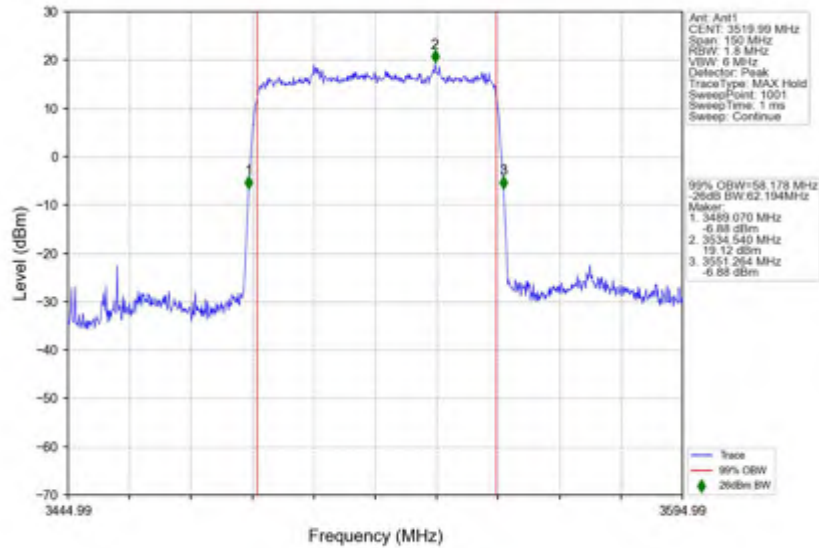
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM PI/2 BPSK\_3480MHz\_Outer\_Full



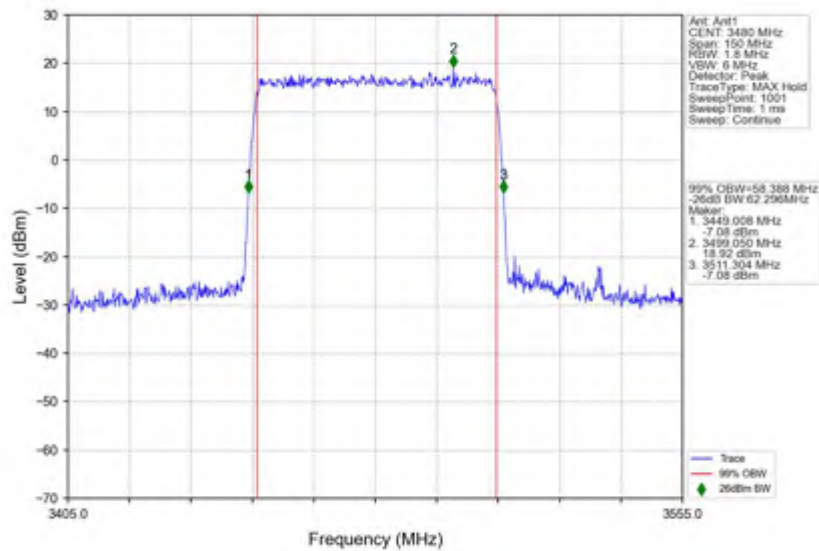
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM PI/2 BPSK\_3500.01MHz\_Outer\_Full



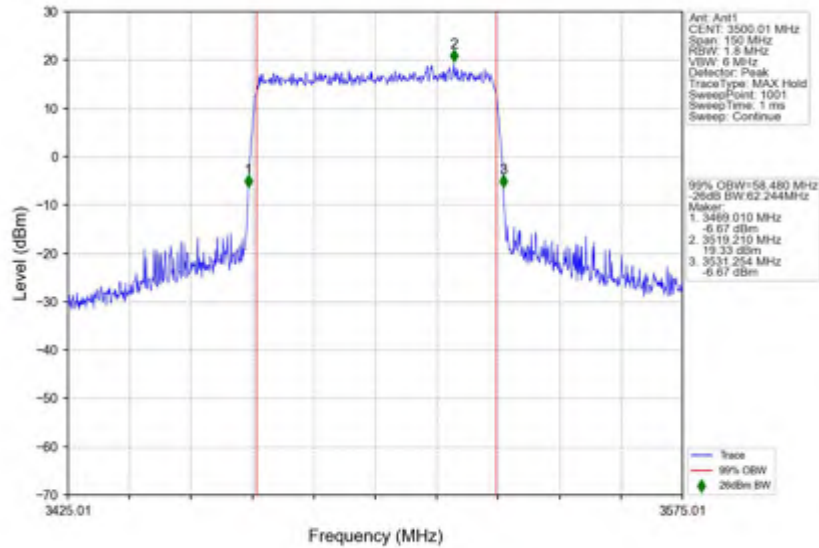
n78(3450-3550MHz) 30kHz SISO NTN 60MHz DFT-s-OFDM PI/2 BPSK 3519.99MHz Outer Full



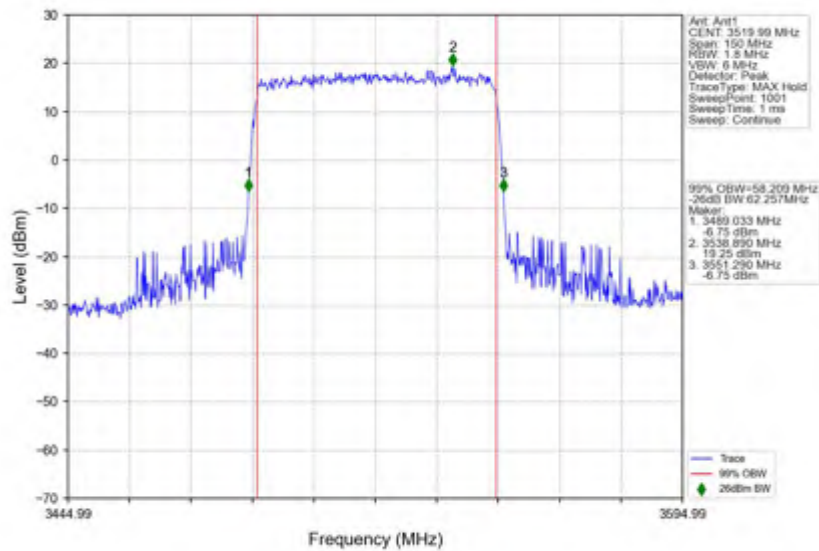
n78(3450-3550MHz) 30kHz SISO NTN 60MHz DFT-s-OFDM QPSK 3480MHz Outer Full



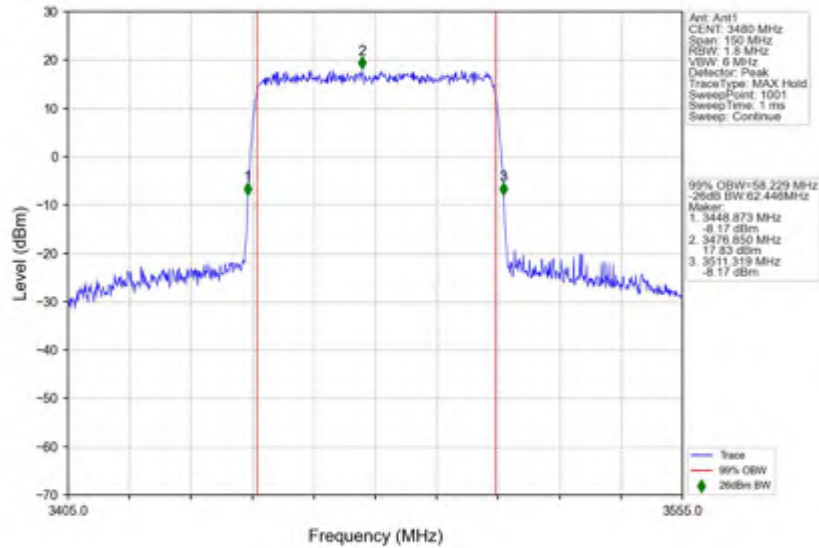
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM\_QPSK\_3500.01MHz\_Outer\_Full



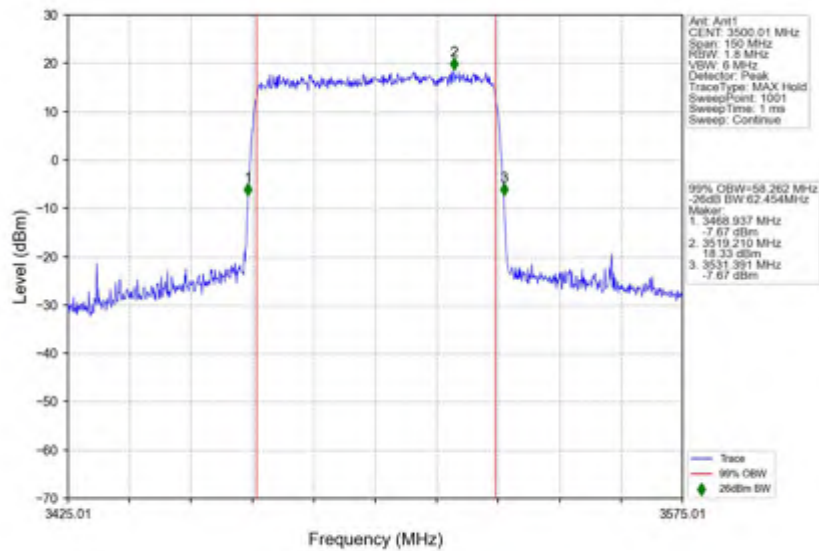
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM\_QPSK\_3519.99MHz\_Outer\_Full



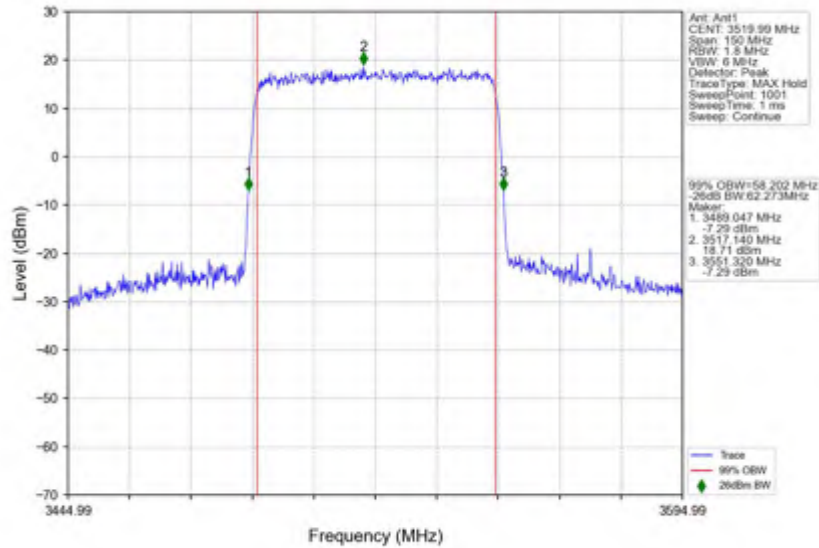
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM\_16\_QAM\_3480MHz\_Outer\_Full



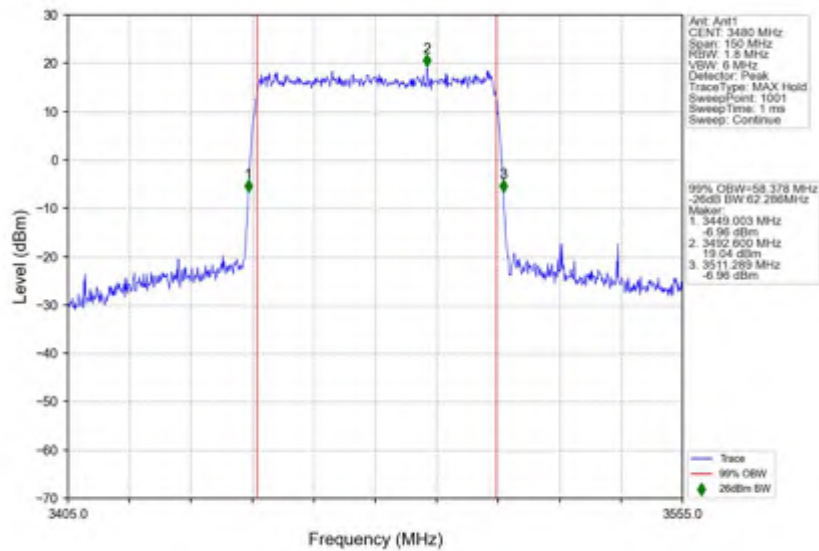
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full



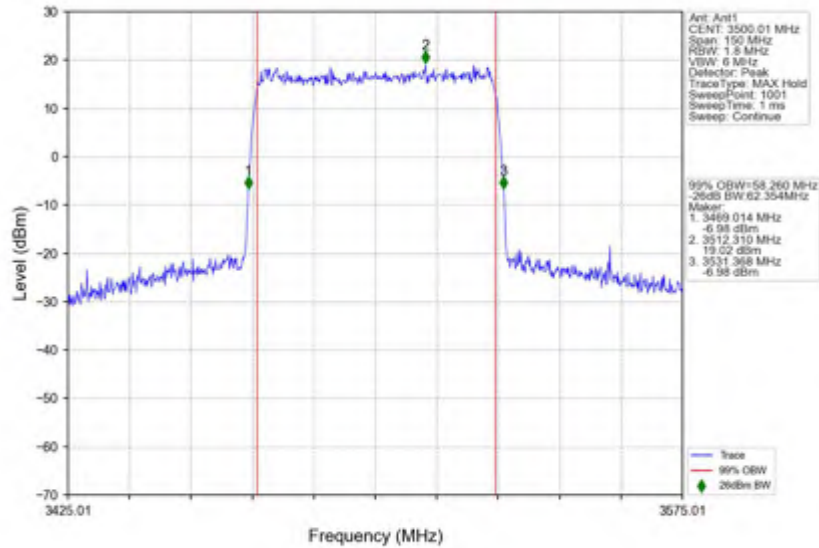
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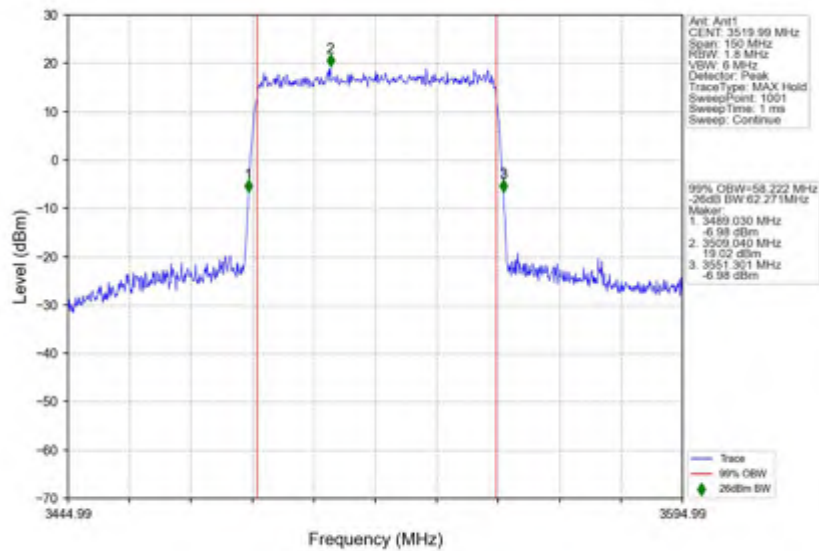
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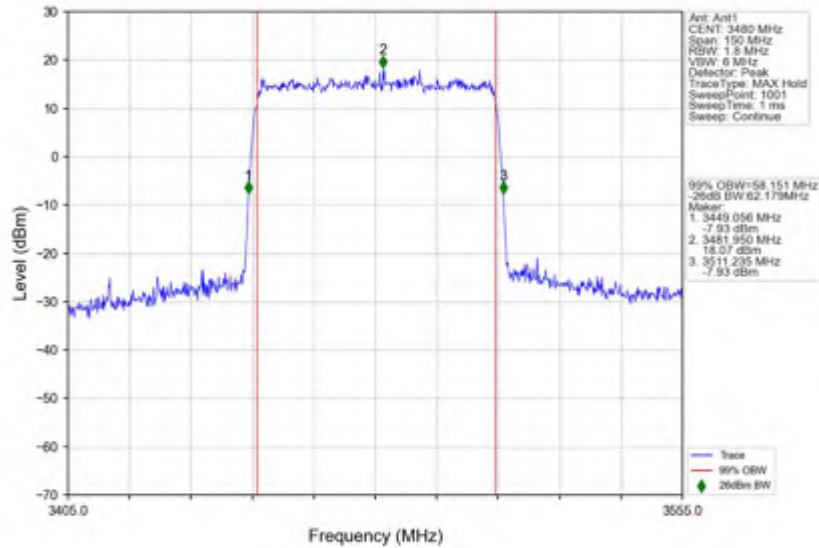
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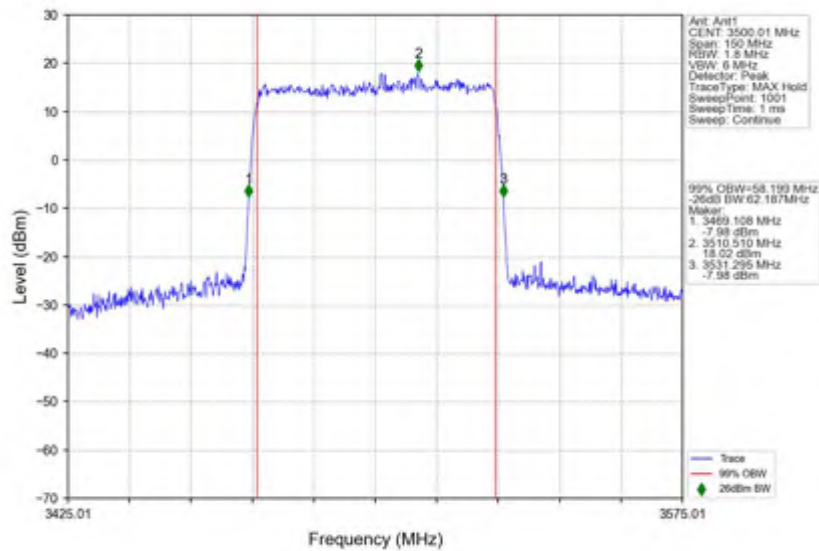
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM\_64\_QAM\_3519.99MHz\_Outer\_Full



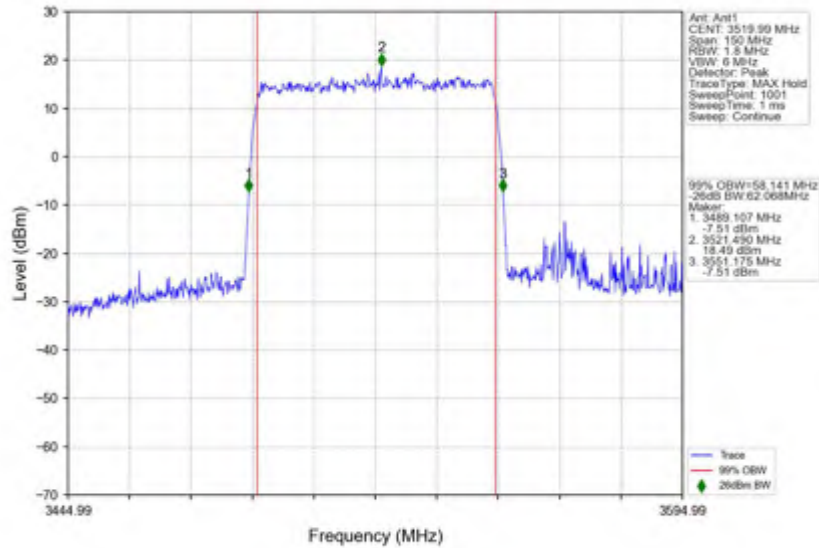
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM\_256\_QAM\_3480MHz\_Outer\_Full



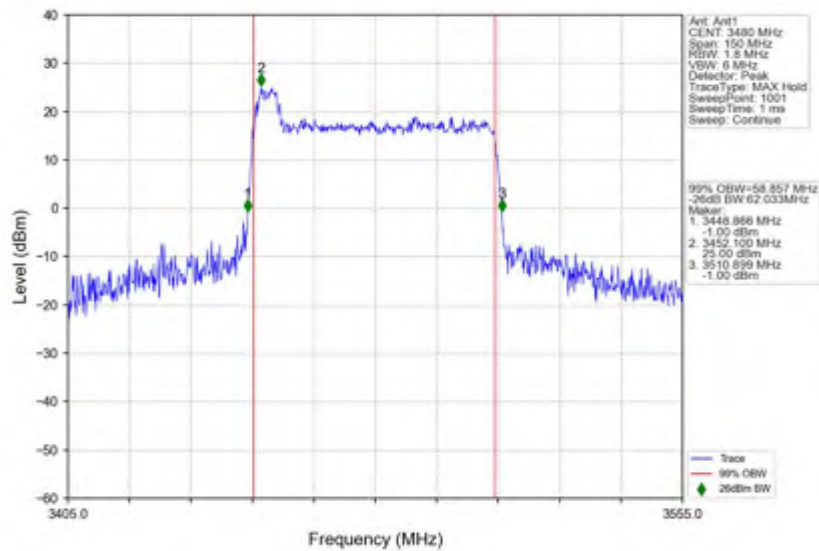
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full



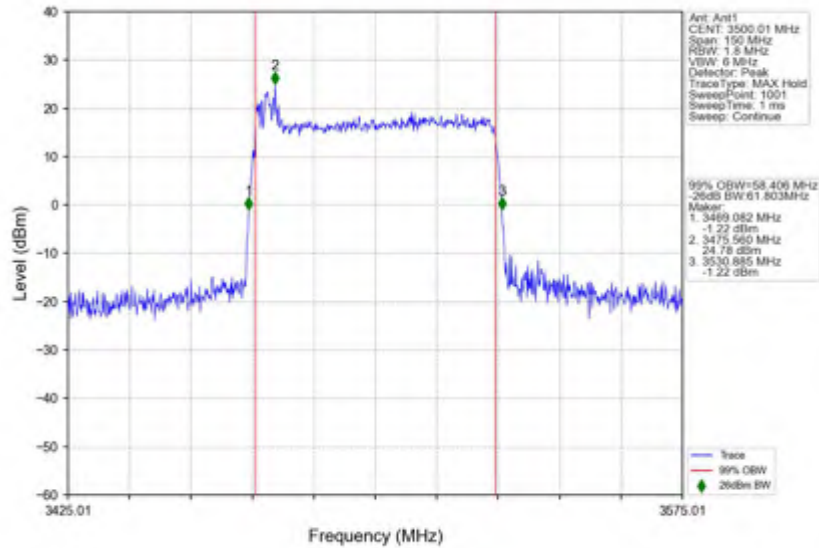
n78(3450-3550MHz) 30kHz SISO NTN 60MHz DFT-s-OFDM 256 QAM 3519.99MHz Outer Full



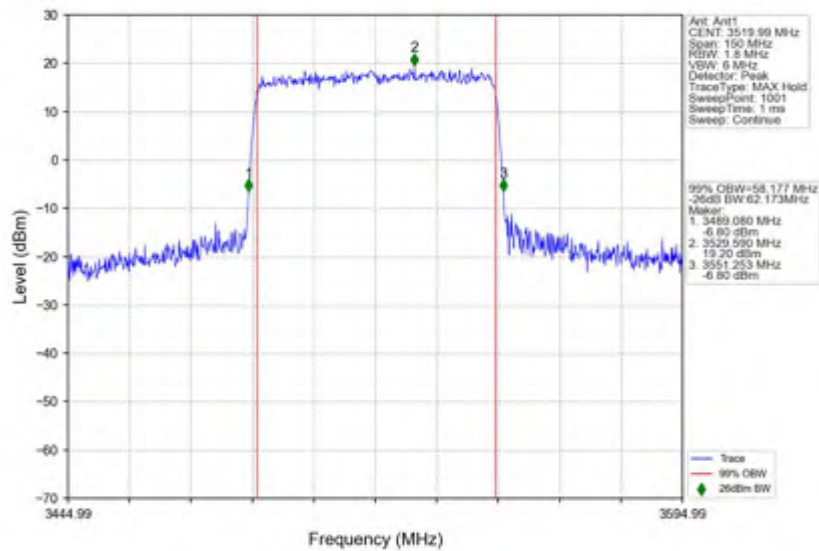
n78(3450-3550MHz) 30kHz SISO NTN 60MHz CP-OFDM QPSK 3480MHz Outer Full



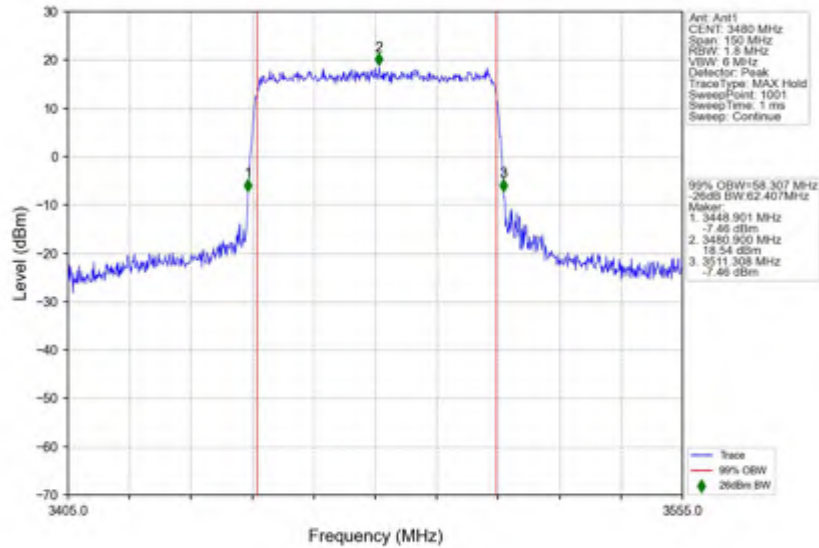
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM\_QPSK\_3500.01MHz\_Outer\_Full



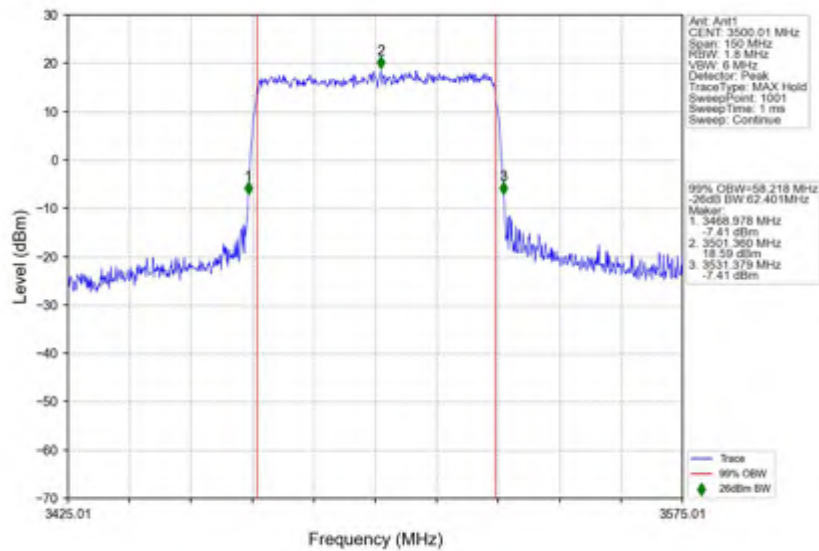
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM\_QPSK\_3519.99MHz\_Outer\_Full



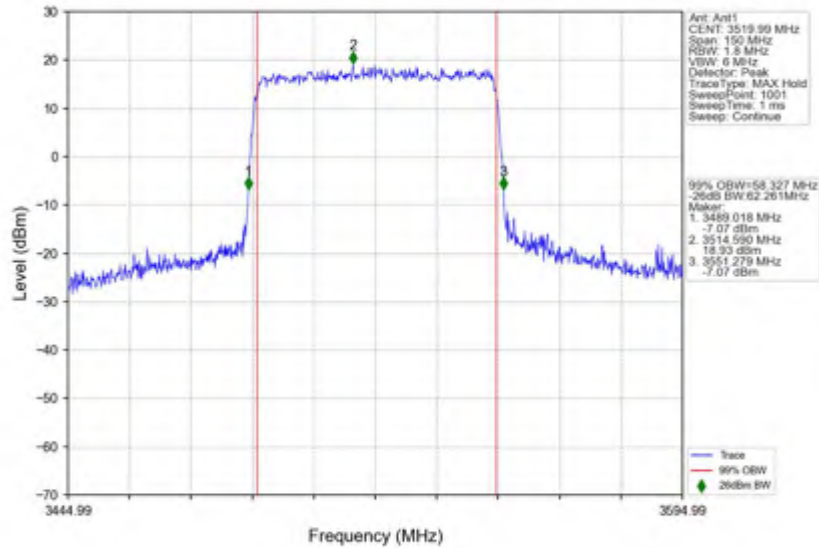
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM\_16 QAM\_3480MHz\_Outer\_Full



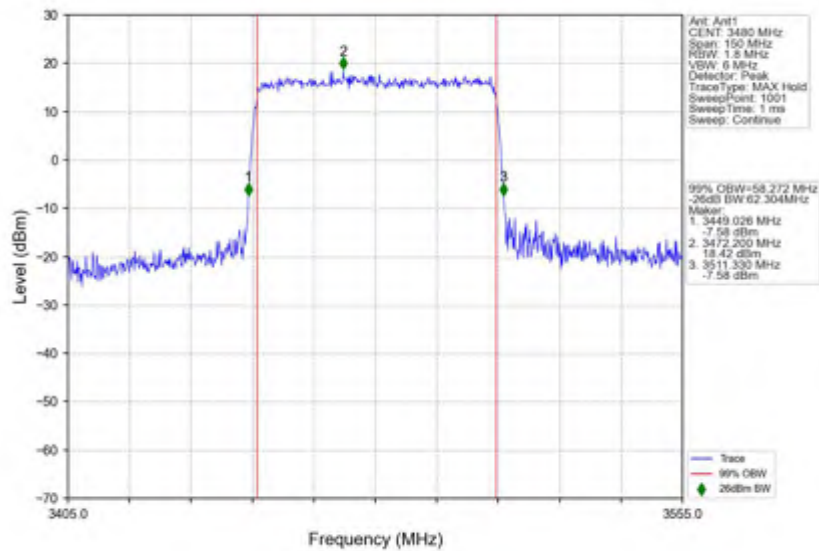
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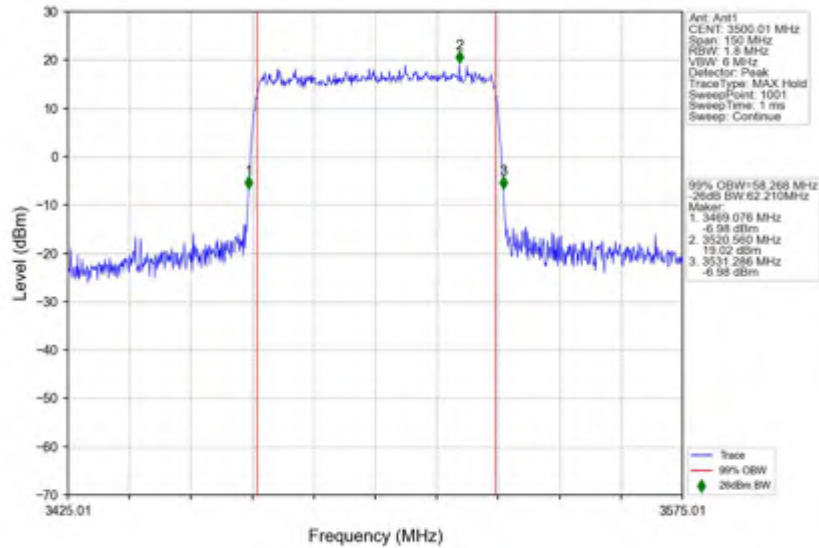
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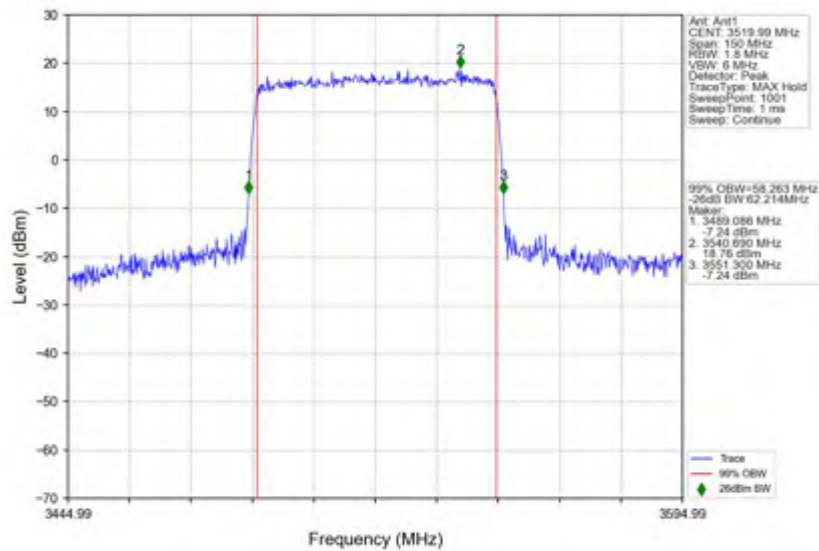
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM 64 QAM 3480MHz\_Outer\_Full



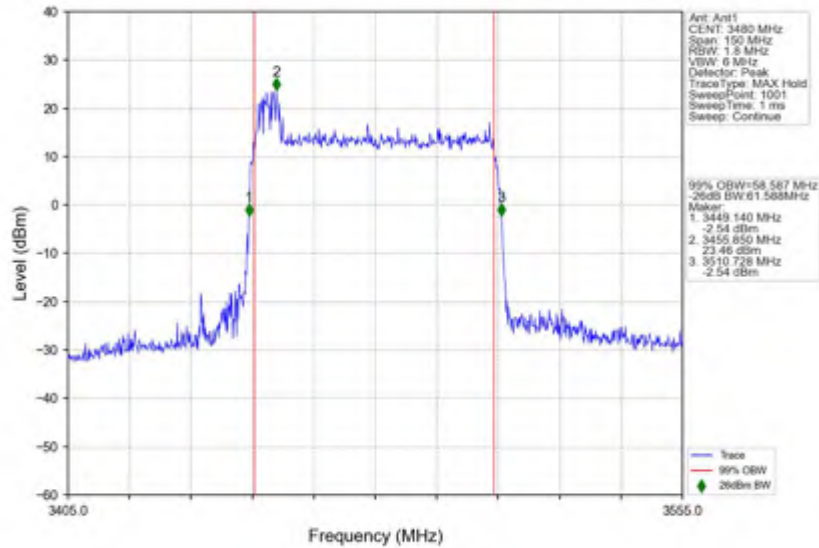
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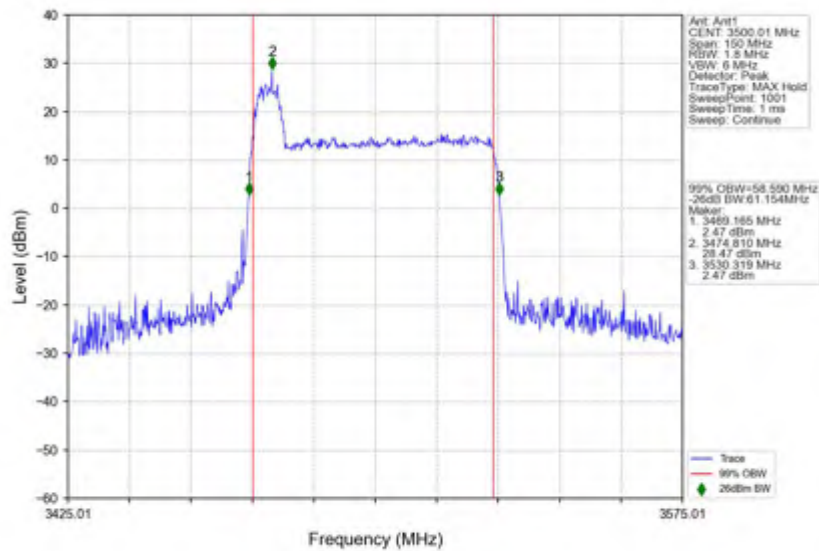
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM 64 QAM\_3519.99MHz\_Outer\_Full



n78(3450-3550MHz) 30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM 256 QAM 3480MHz\_Outer\_Full

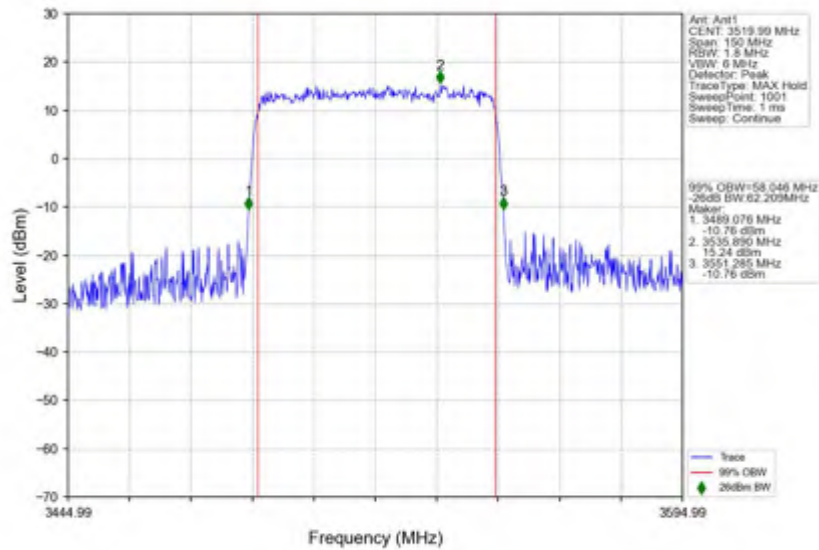


n78(3450-3550MHz) 30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM 256 QAM\_3500.01MHz\_Outer\_Full





n78(3450-3550MHz) 30kHz SISO NTN 60MHz CP-OFDM 256 QAM 3519.99MHz Outer Full





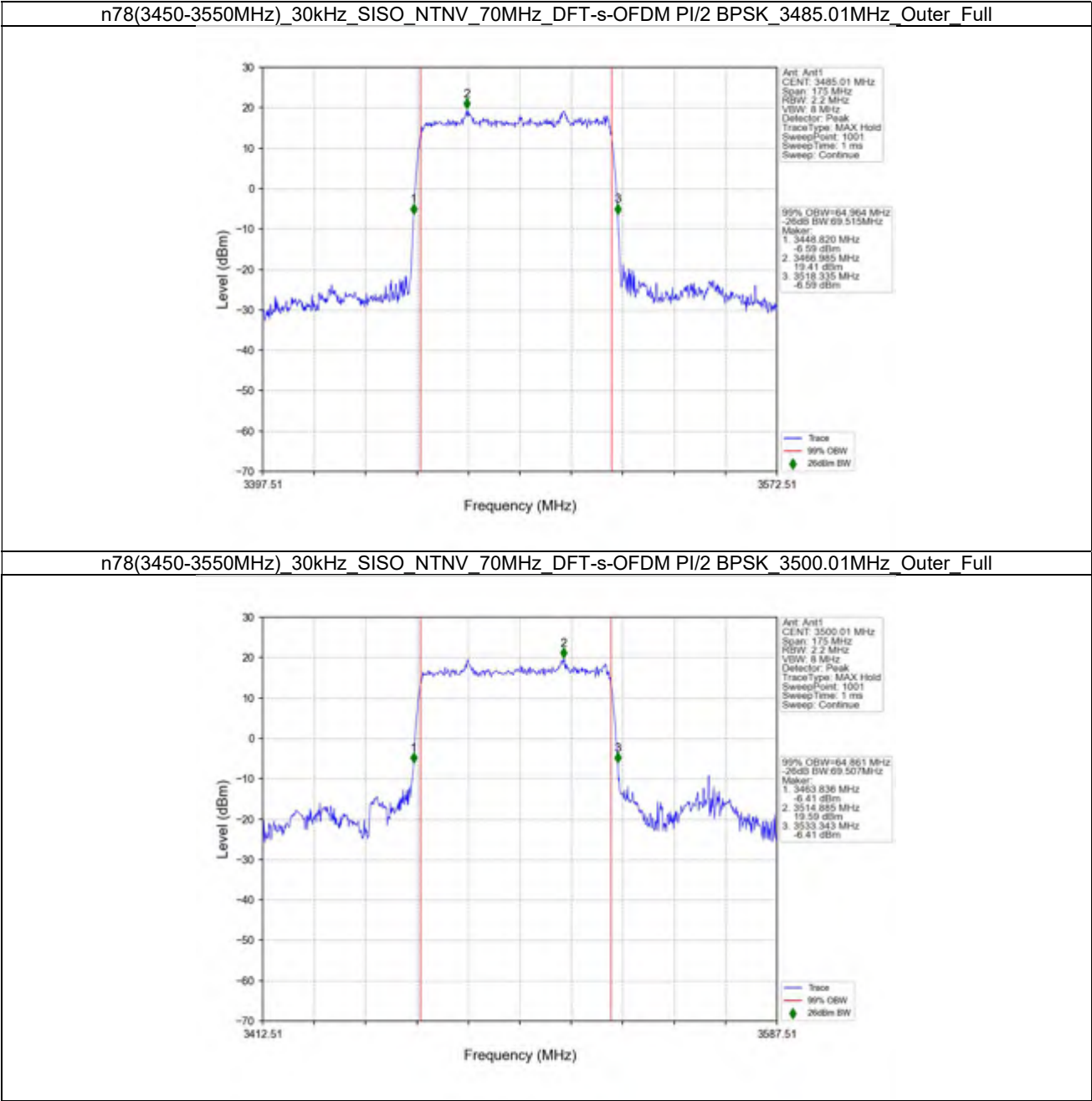
### 3.6 30k\_SISO\_70MHz\_NTNV

#### 3.6.1 Test Result

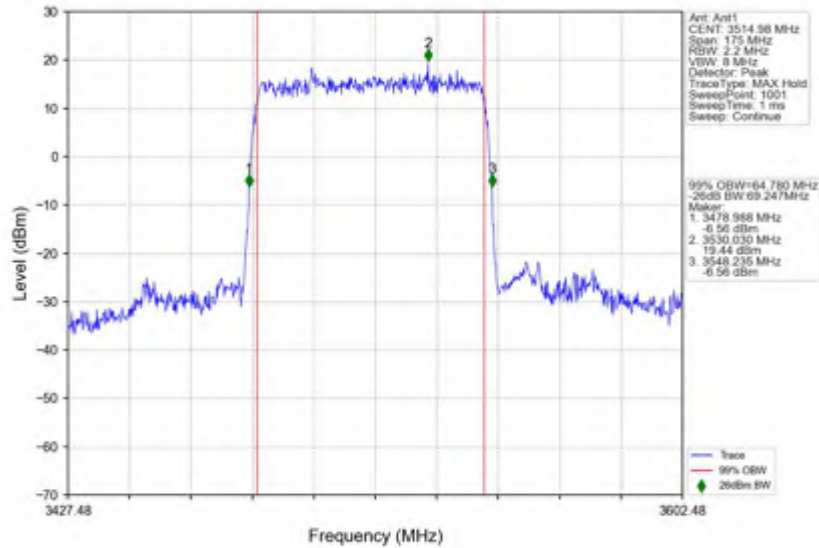
| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 70MHz NTN |                 |               |                     |                      |             |         |
|--------------------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK                             | 3485.01         | Outer_Full    | 64.96               | 69.52                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 64.86               | 69.51                | /           | Pass    |
|                                                  | 3514.98         | Outer_Full    | 64.78               | 69.25                | /           | Pass    |
| DFT-s-OFDM QPSK                                  | 3485.01         | Outer_Full    | 65.02               | 69.72                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 65.11               | 69.72                | /           | Pass    |
|                                                  | 3514.98         | Outer_Full    | 64.79               | 69.57                | /           | Pass    |
| DFT-s-OFDM 16 QAM                                | 3485.01         | Outer_Full    | 65.27               | 69.64                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 65.14               | 69.65                | /           | Pass    |
|                                                  | 3514.98         | Outer_Full    | 64.94               | 69.25                | /           | Pass    |
| DFT-s-OFDM 64 QAM                                | 3485.01         | Outer_Full    | 65.06               | 69.66                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 64.98               | 69.56                | /           | Pass    |
|                                                  | 3514.98         | Outer_Full    | 65.12               | 69.46                | /           | Pass    |
| DFT-s-OFDM 256 QAM                               | 3485.01         | Outer_Full    | 65.12               | 68.73                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 64.83               | 69.53                | /           | Pass    |
|                                                  | 3514.98         | Outer_Full    | 64.84               | 68.94                | /           | Pass    |
| CP-OFDM QPSK                                     | 3485.01         | Outer_Full    | 68.64               | 72.17                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 68.64               | 72.44                | /           | Pass    |
|                                                  | 3514.98         | Outer_Full    | 68.02               | 72.72                | /           | Pass    |
| CP-OFDM 16 QAM                                   | 3485.01         | Outer_Full    | 68.05               | 72.94                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 68.24               | 72.73                | /           | Pass    |
|                                                  | 3514.98         | Outer_Full    | 68.08               | 72.52                | /           | Pass    |
| CP-OFDM 64 QAM                                   | 3485.01         | Outer_Full    | 68.31               | 72.80                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 68.07               | 72.87                | /           | Pass    |
|                                                  | 3514.98         | Outer_Full    | 67.98               | 72.49                | /           | Pass    |
| CP-OFDM 256 QAM                                  | 3485.01         | Outer_Full    | 67.93               | 72.72                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 68.64               | 71.68                | /           | Pass    |
|                                                  | 3514.98         | Outer_Full    | 68.68               | 72.13                | /           | Pass    |



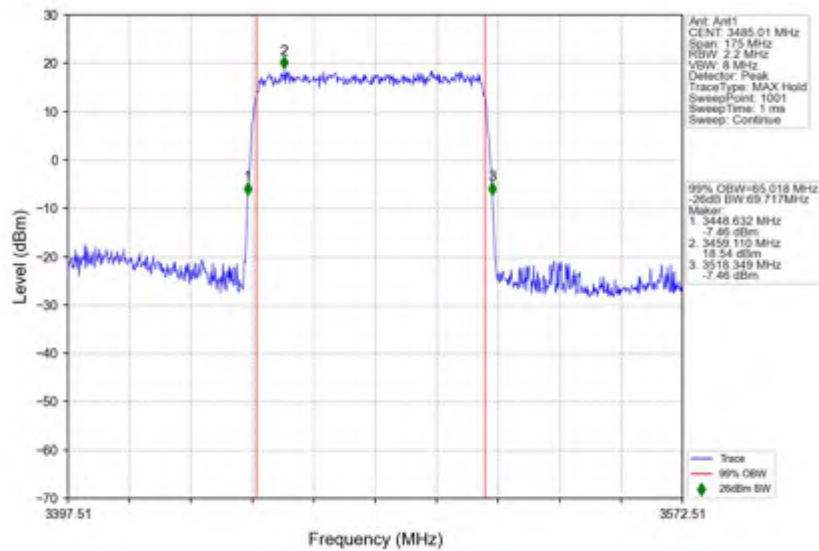
3.6.2 Test Graph



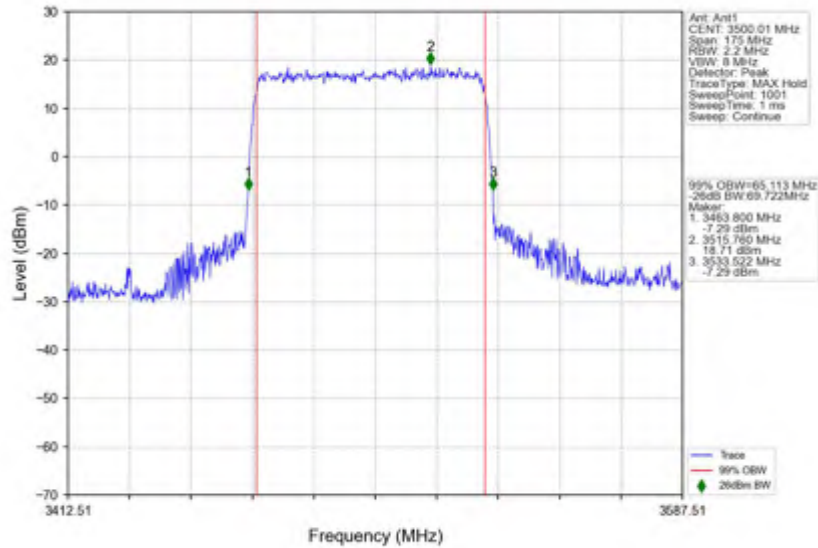
n78(3450-3550MHz) 30kHz SISO NTN 70MHz DFT-s-OFDM PI/2 BPSK 3514.98MHz Outer Full



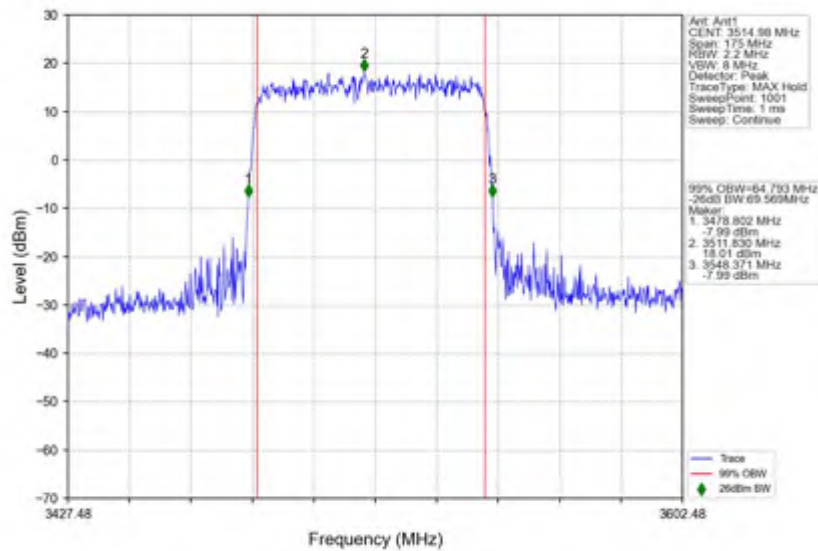
n78(3450-3550MHz) 30kHz SISO NTN 70MHz DFT-s-OFDM QPSK 3485.01MHz Outer Full



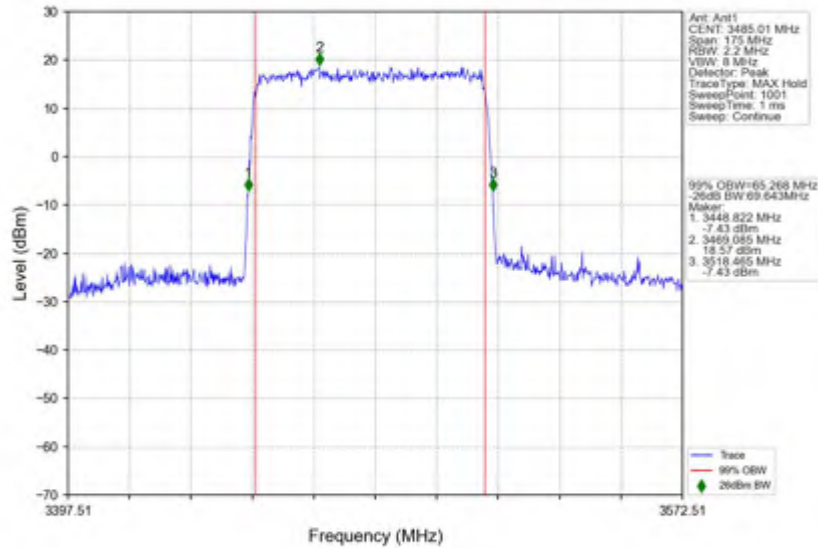
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM\_QPSK\_3500.01MHz\_Outer\_Full



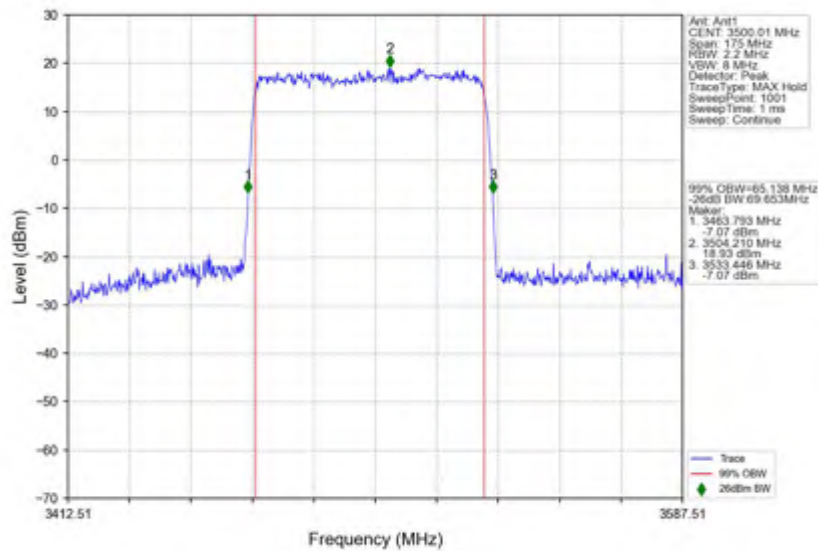
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM\_QPSK\_3514.98MHz\_Outer\_Full



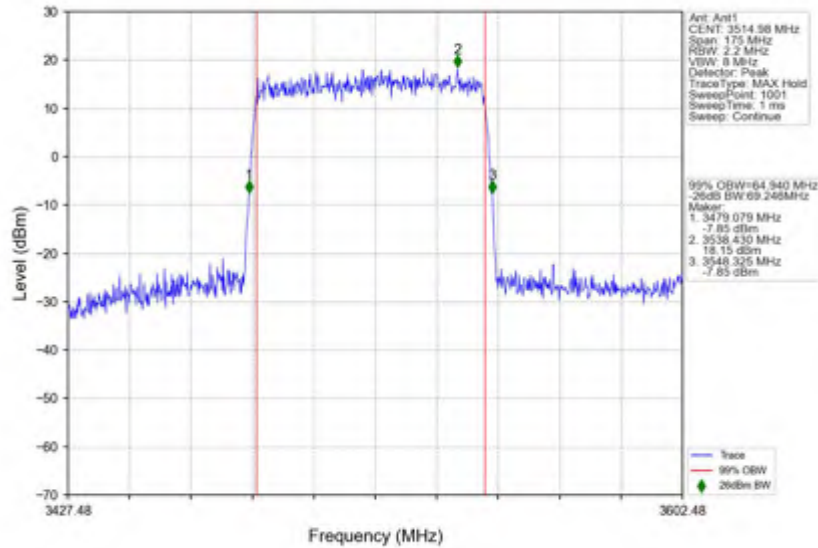
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM\_16\_QAM\_3485.01MHz\_Outer\_Full



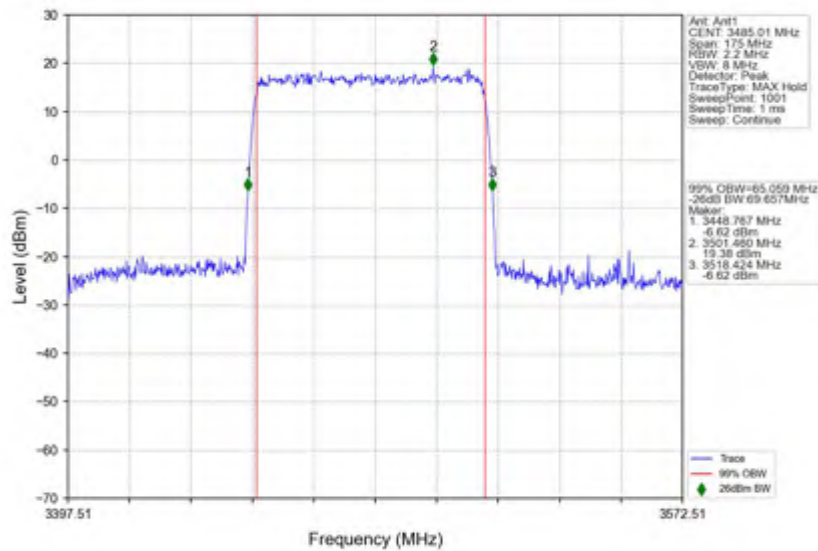
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full



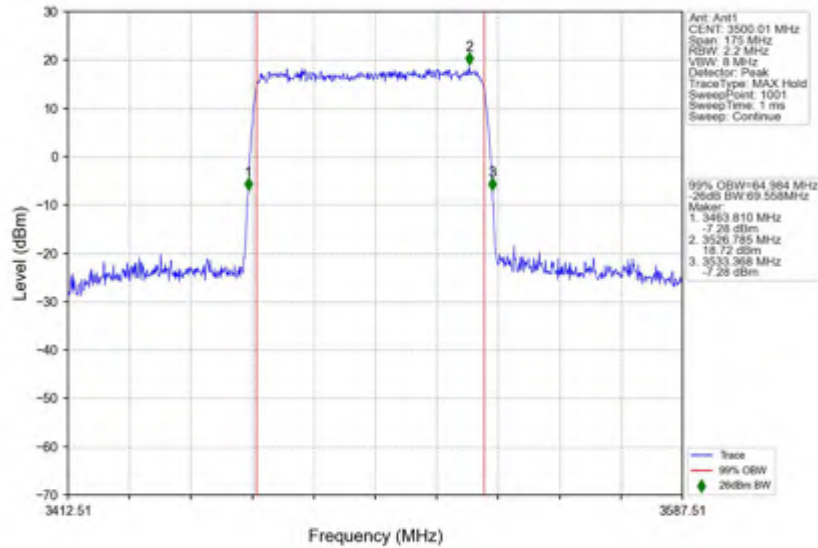
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM\_16 QAM\_3514.98MHz\_Outer\_Full



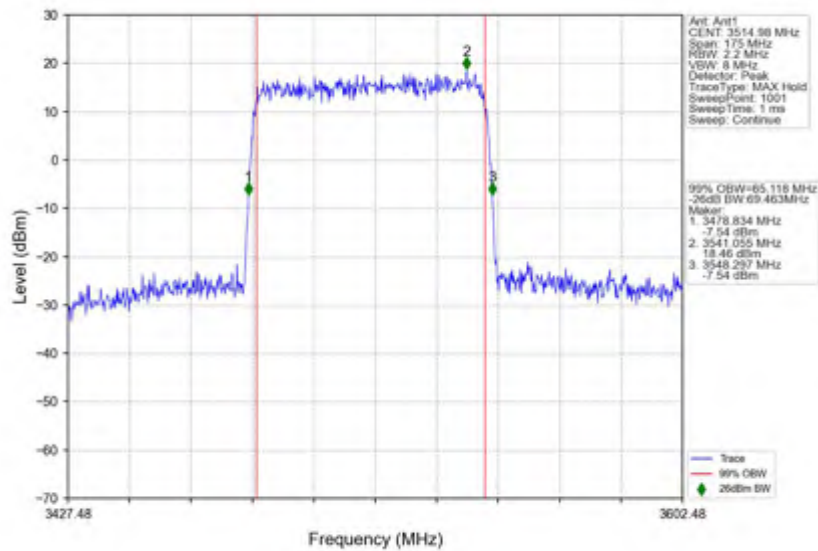
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM\_64 QAM\_3485.01MHz\_Outer\_Full



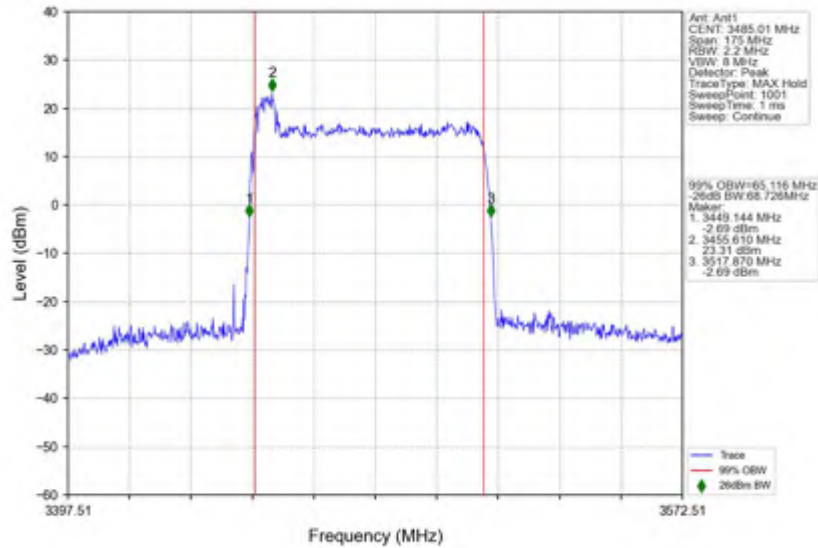
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM\_64\_QAM\_3500.01MHz\_Outer\_Full



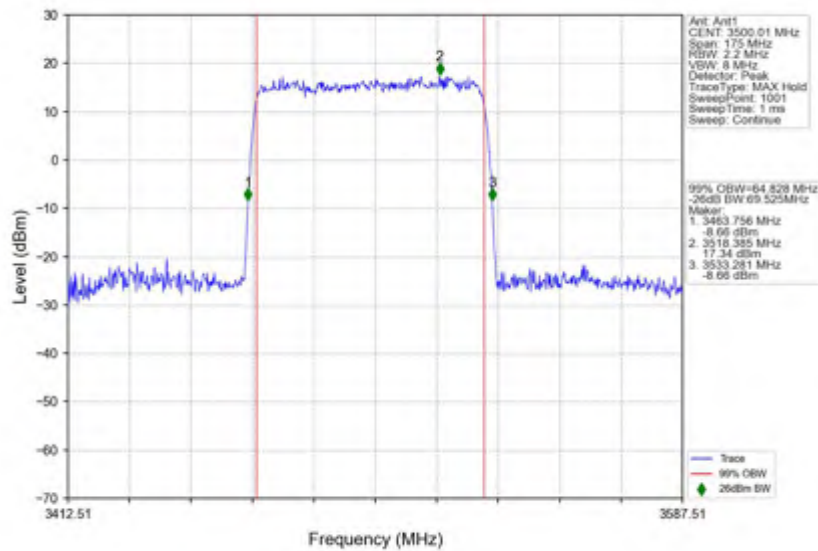
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM\_64\_QAM\_3514.98MHz\_Outer\_Full



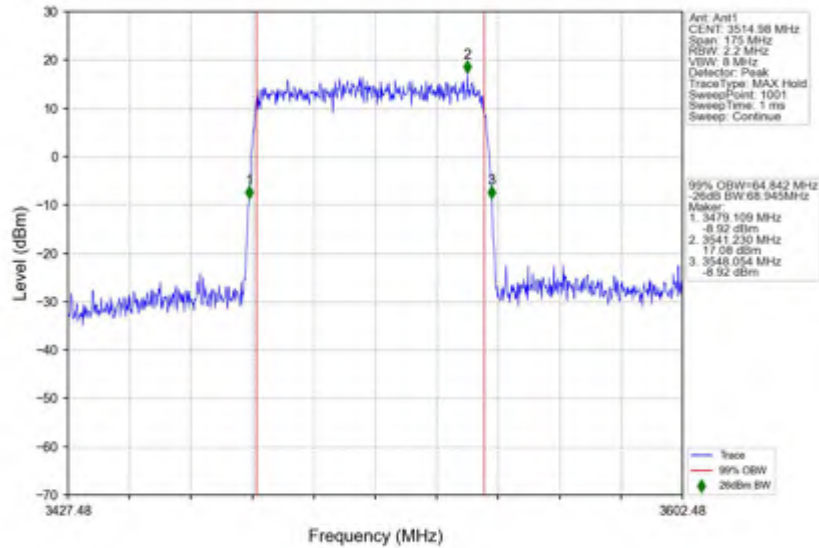
n78(3450-3550MHz) 30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM 256 QAM 3485.01MHz\_Outer\_Full



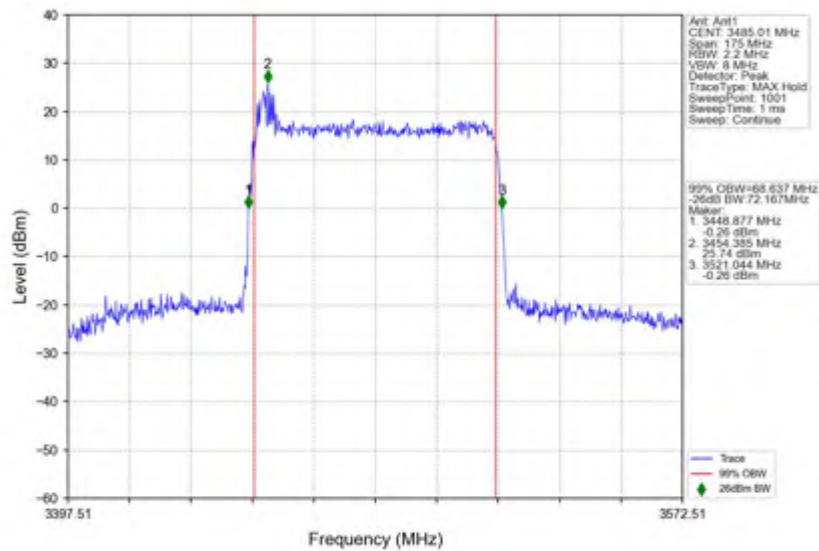
n78(3450-3550MHz) 30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM 256 QAM 3500.01MHz\_Outer\_Full



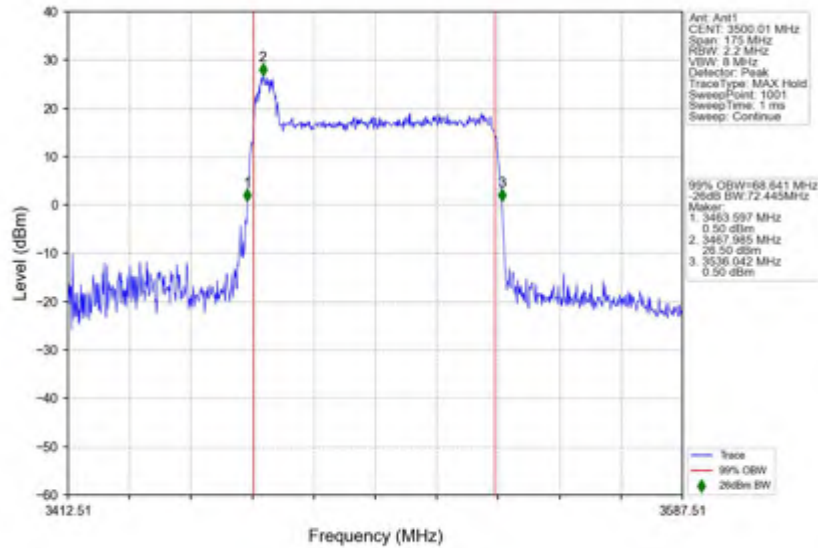
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM\_256\_QAM\_3514.98MHz\_Outer\_Full



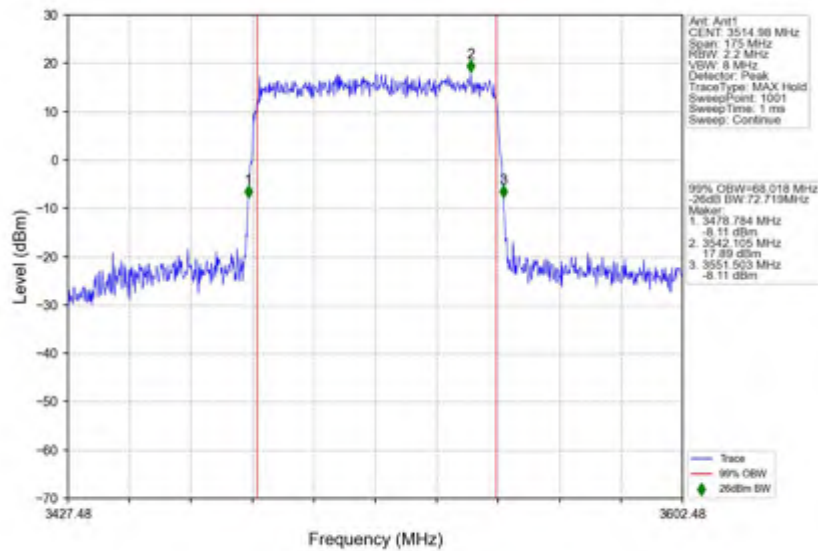
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM\_QPSK\_3485.01MHz\_Outer\_Full



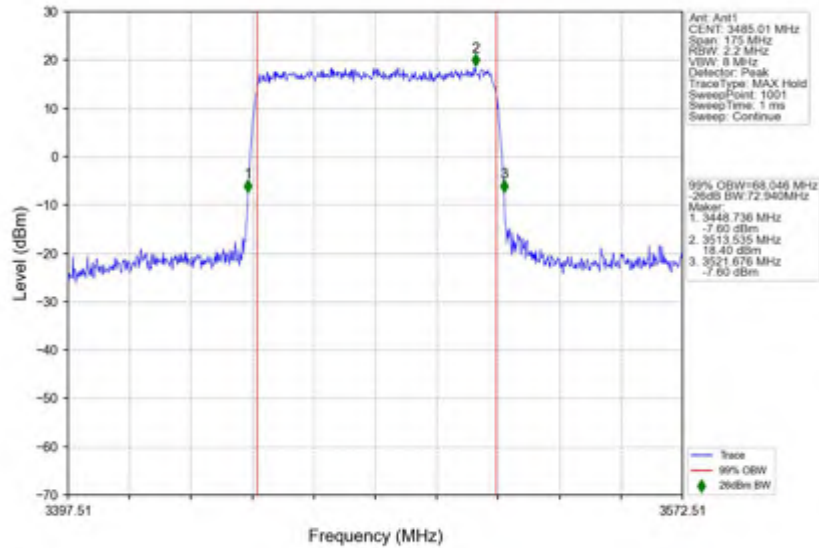
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM\_QPSK\_3500.01MHz\_Outer\_Full



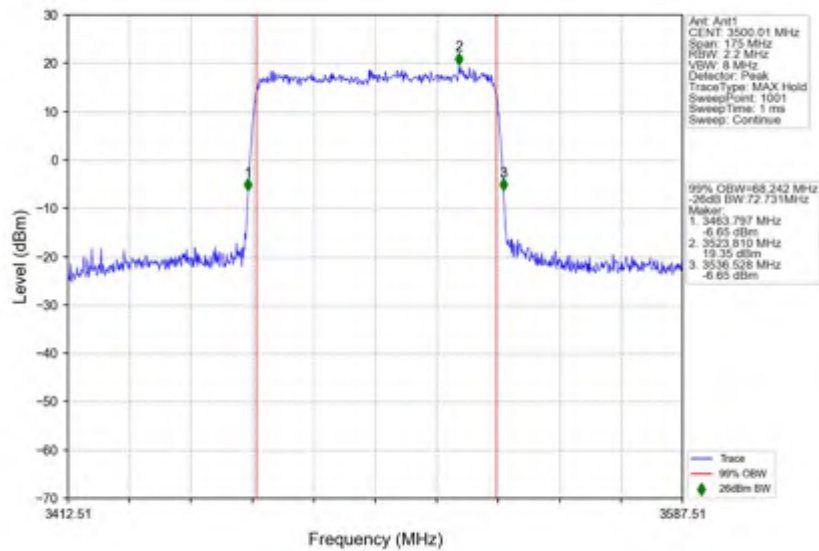
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM\_QPSK\_3514.98MHz\_Outer\_Full



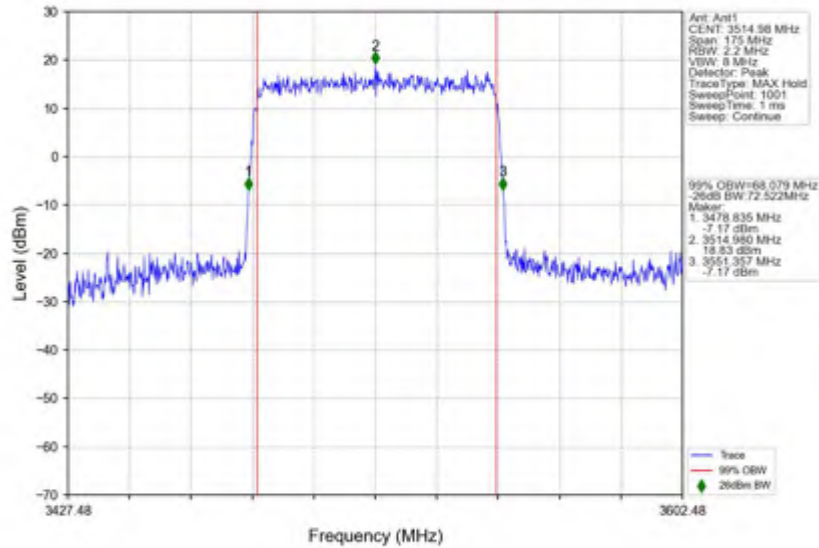
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM\_16\_QAM\_3485.01MHz\_Outer\_Full



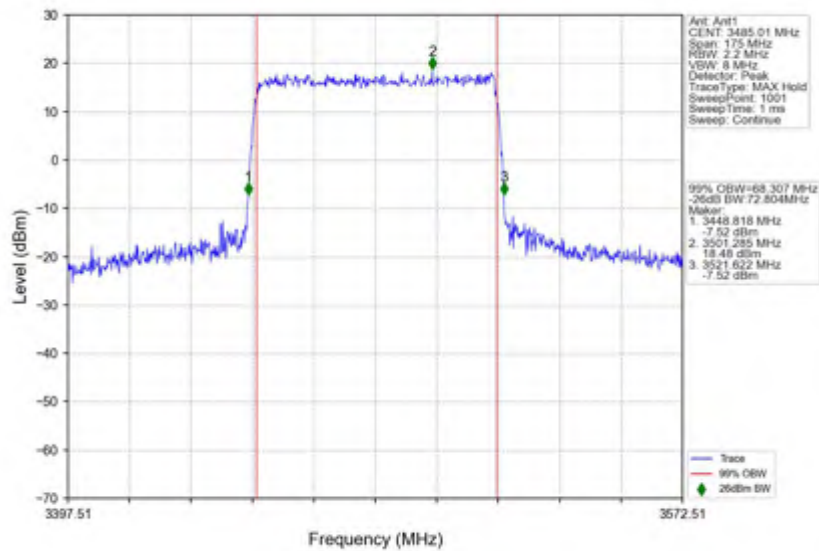
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full



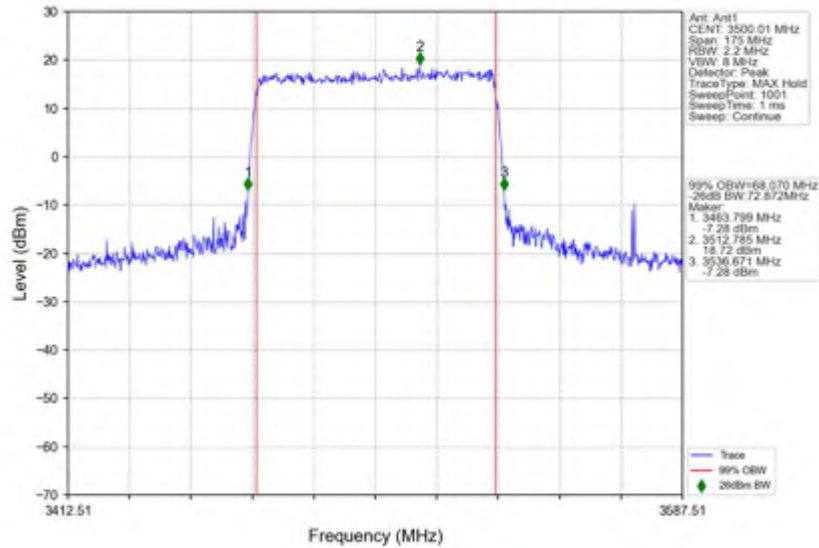
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 16 QAM\_3514.98MHz\_Outer\_Full



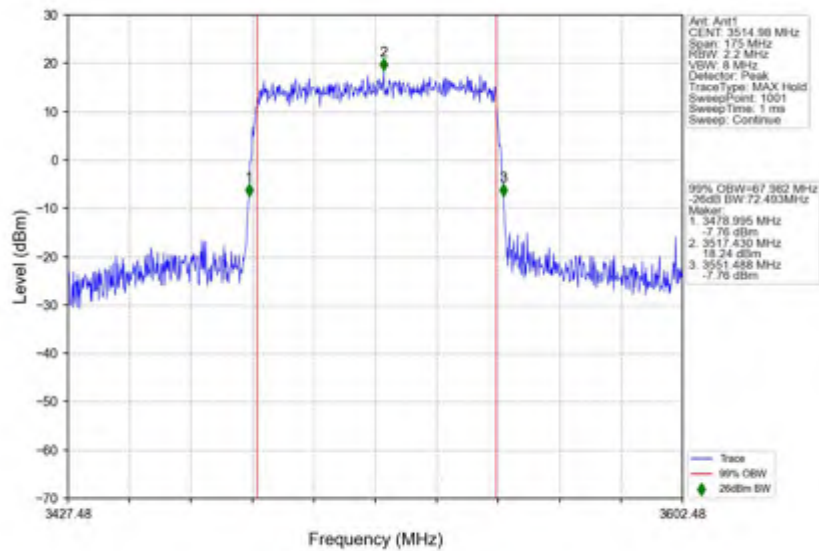
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 64 QAM\_3485.01MHz\_Outer\_Full



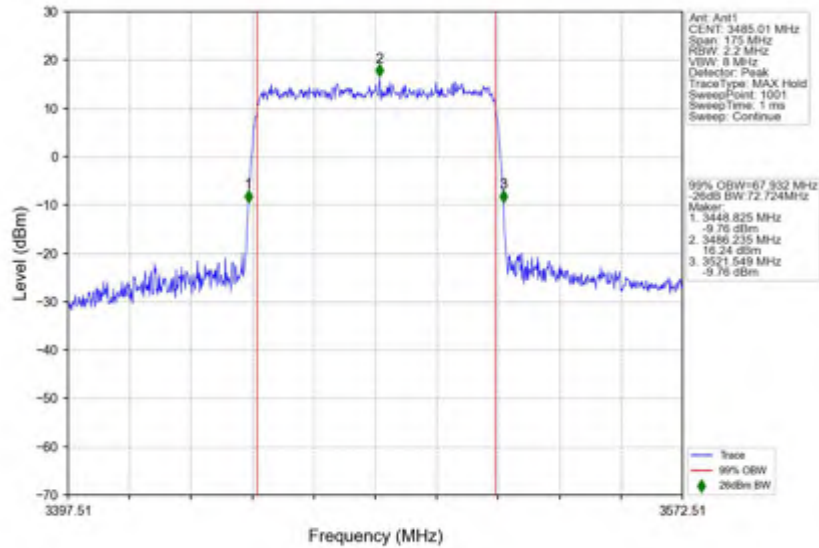
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 64 QAM\_3500.01MHz\_Outer\_Full



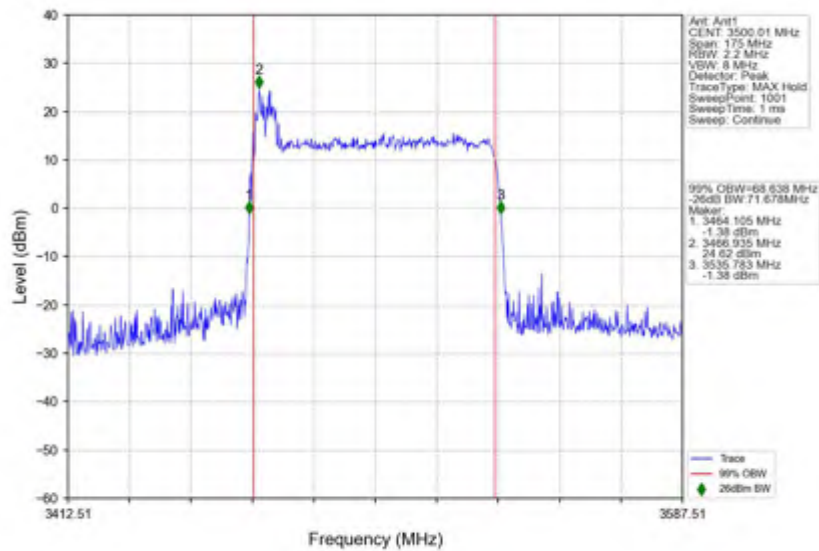
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 64 QAM\_3514.98MHz\_Outer\_Full



n78(3450-3550MHz) 30kHz SISO NTN 70MHz CP-OFDM 256 QAM 3485.01MHz Outer Full

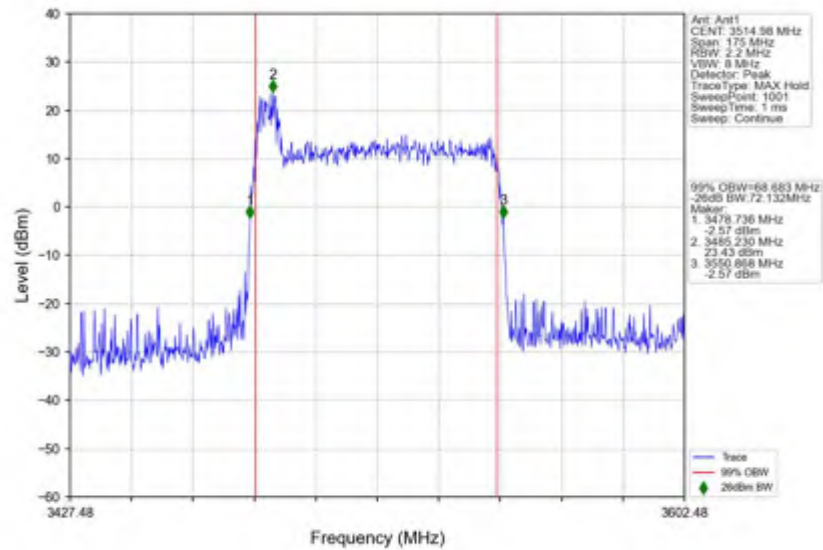


n78(3450-3550MHz) 30kHz SISO NTN 70MHz CP-OFDM 256 QAM 3500.01MHz Outer Full





n78(3450-3550MHz) 30kHz SISO\_NTNV\_70MHz\_CP-OFDM 256 QAM 3514.98MHz\_Outer\_Full





### 3.7 30k\_SISO\_80MHz\_NTNV

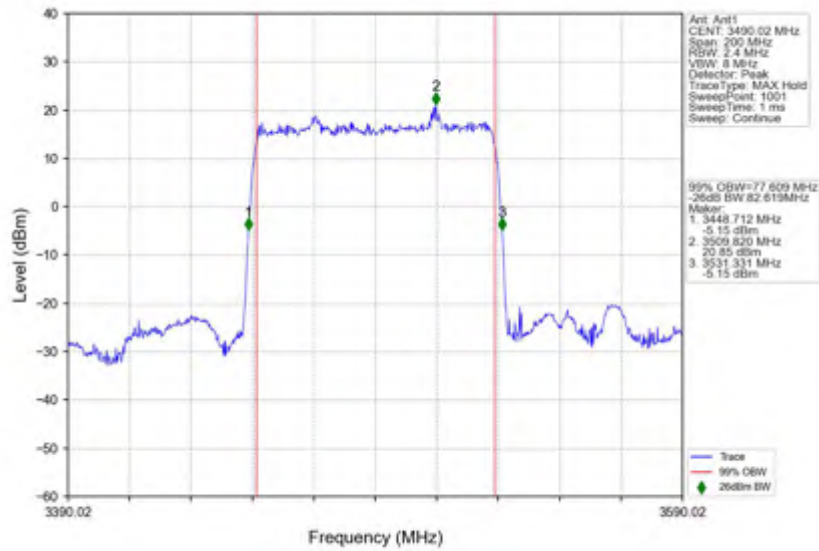
#### 3.7.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 80MHz NTN |                 |               |                     |                      |             |         |
|--------------------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK                             | 3490.02         | Outer_Full    | 77.61               | 82.62                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 77.41               | 82.34                | /           | Pass    |
|                                                  | 3510            | Outer_Full    | 77.28               | 82.55                | /           | Pass    |
| DFT-s-OFDM QPSK                                  | 3490.02         | Outer_Full    | 77.73               | 83.00                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 77.59               | 82.75                | /           | Pass    |
|                                                  | 3510            | Outer_Full    | 77.95               | 82.75                | /           | Pass    |
| DFT-s-OFDM 16 QAM                                | 3490.02         | Outer_Full    | 78.14               | 83.25                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 77.90               | 82.62                | /           | Pass    |
|                                                  | 3510            | Outer_Full    | 77.74               | 83.11                | /           | Pass    |
| DFT-s-OFDM 64 QAM                                | 3490.02         | Outer_Full    | 77.77               | 82.85                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 77.68               | 83.11                | /           | Pass    |
|                                                  | 3510            | Outer_Full    | 77.74               | 82.84                | /           | Pass    |
| DFT-s-OFDM 256 QAM                               | 3490.02         | Outer_Full    | 78.22               | 82.53                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 77.52               | 82.88                | /           | Pass    |
|                                                  | 3510            | Outer_Full    | 77.52               | 82.82                | /           | Pass    |
| CP-OFDM QPSK                                     | 3490.02         | Outer_Full    | 77.92               | 83.39                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 78.75               | 81.85                | /           | Pass    |
|                                                  | 3510            | Outer_Full    | 78.61               | 82.32                | /           | Pass    |
| CP-OFDM 16 QAM                                   | 3490.02         | Outer_Full    | 78.02               | 83.39                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 78.36               | 82.41                | /           | Pass    |
|                                                  | 3510            | Outer_Full    | 78.07               | 83.33                | /           | Pass    |
| CP-OFDM 64 QAM                                   | 3490.02         | Outer_Full    | 77.93               | 83.45                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 78.04               | 83.34                | /           | Pass    |
|                                                  | 3510            | Outer_Full    | 77.98               | 83.47                | /           | Pass    |
| CP-OFDM 256 QAM                                  | 3490.02         | Outer_Full    | 78.01               | 83.27                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 78.08               | 83.50                | /           | Pass    |
|                                                  | 3510            | Outer_Full    | 77.93               | 83.15                | /           | Pass    |

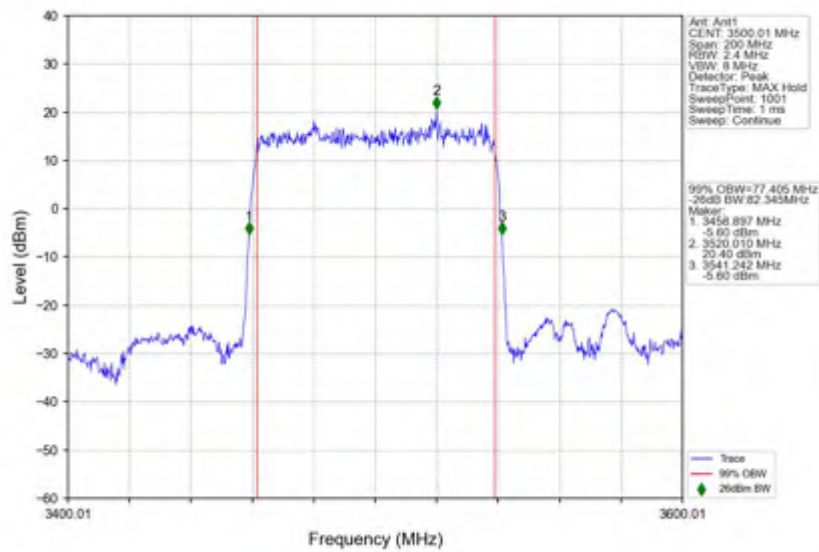


### 3.7.2 Test Graph

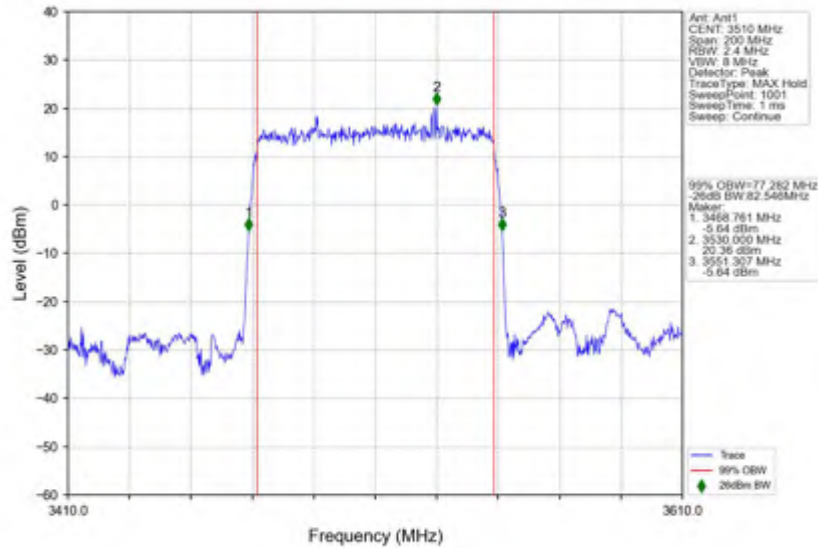
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM PI/2 BPSK\_3490.02MHz\_Outer\_Full



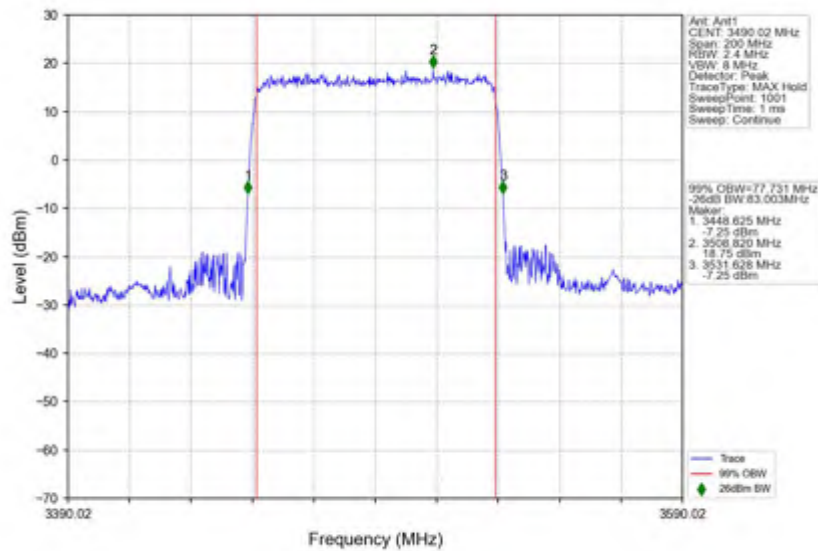
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM PI/2 BPSK\_3500.01MHz\_Outer\_Full



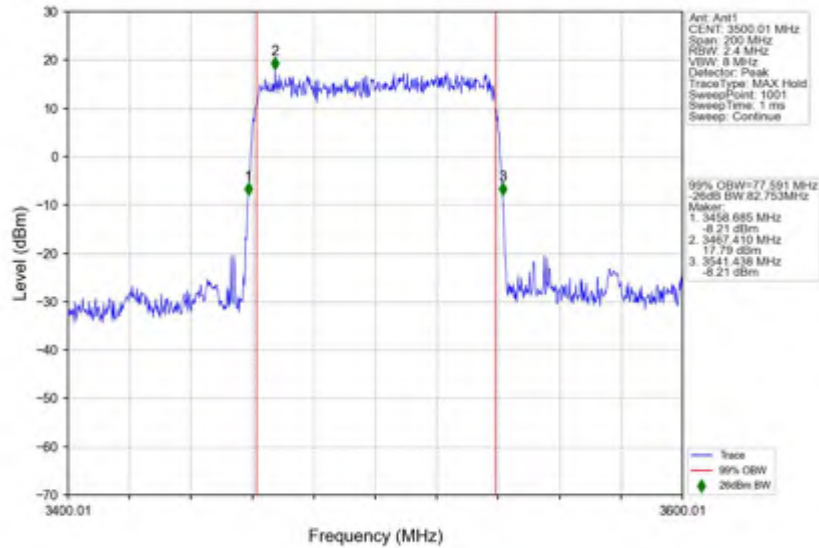
n78(3450-3550MHz) 30kHz SISO NTN 80MHz DFT-s-OFDM PI/2 BPSK 3510MHz Outer Full



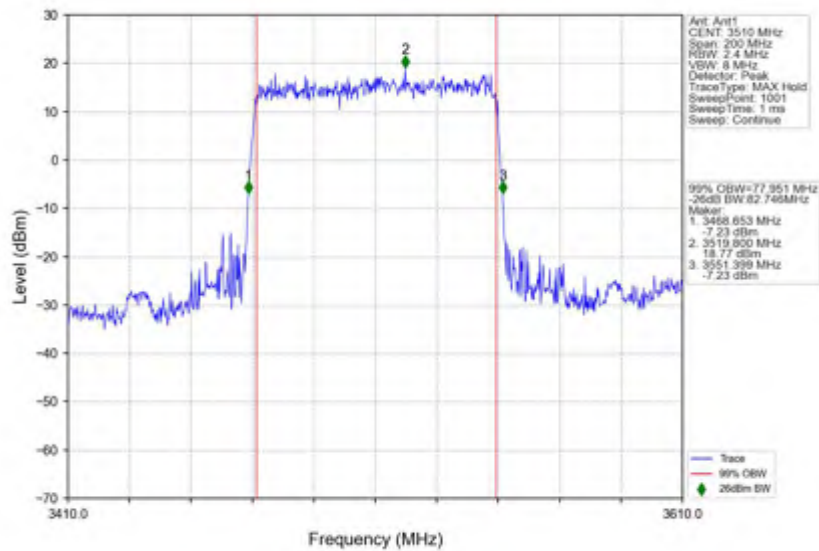
n78(3450-3550MHz) 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3490.02MHz Outer Full



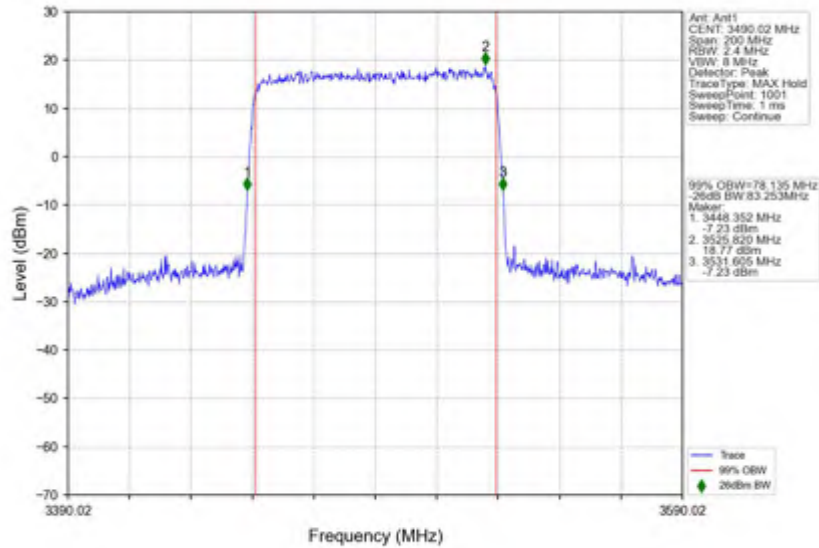
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM\_QPSK\_3500.01MHz\_Outer\_Full



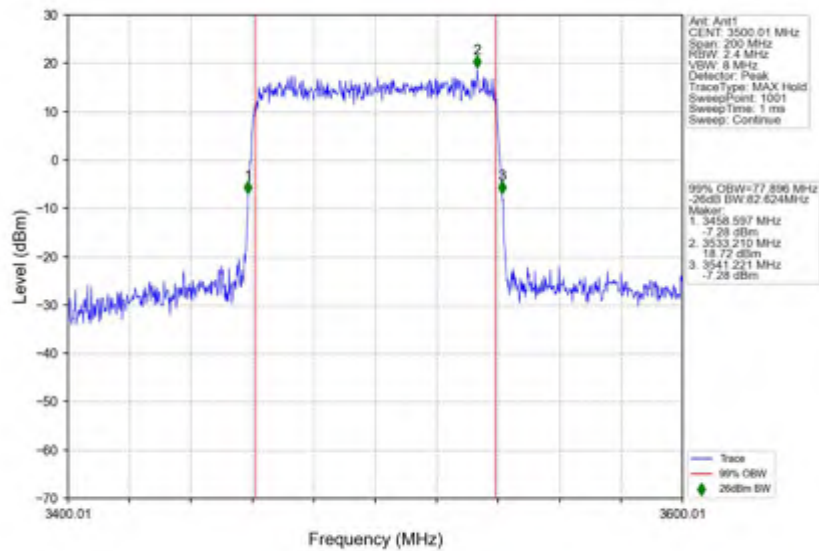
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM\_QPSK\_3510MHz\_Outer\_Full



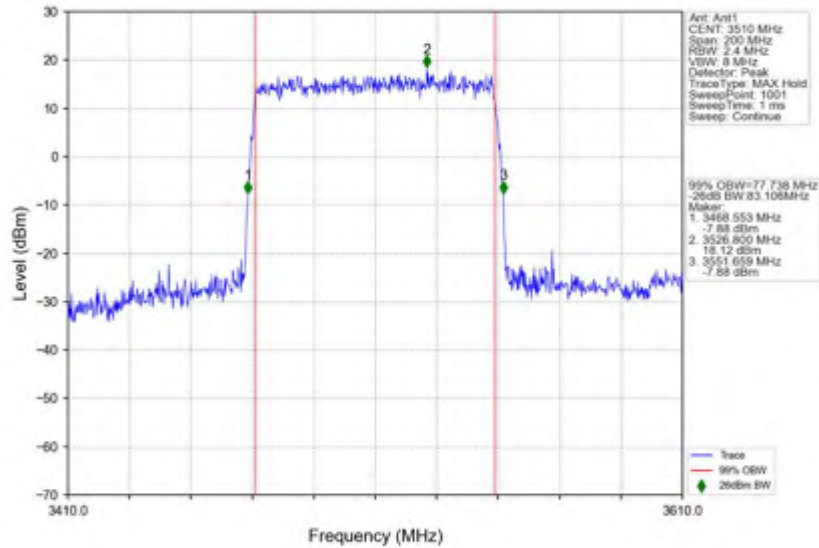
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM\_16\_QAM\_3490.02MHz\_Outer\_Full



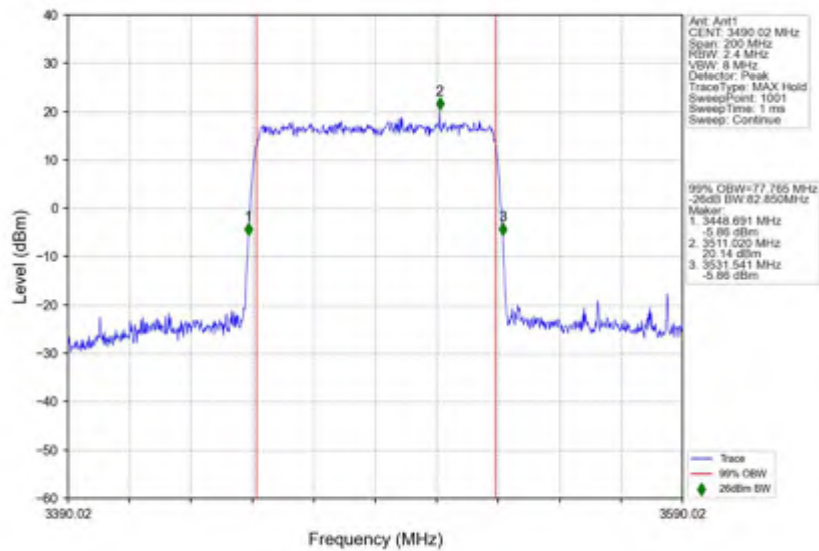
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full



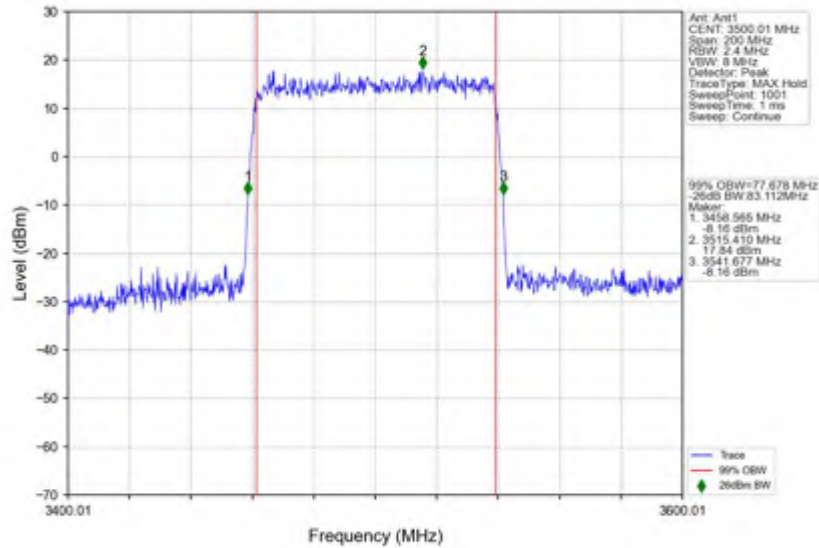
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM 16 QAM 3510MHz\_Outer\_Full



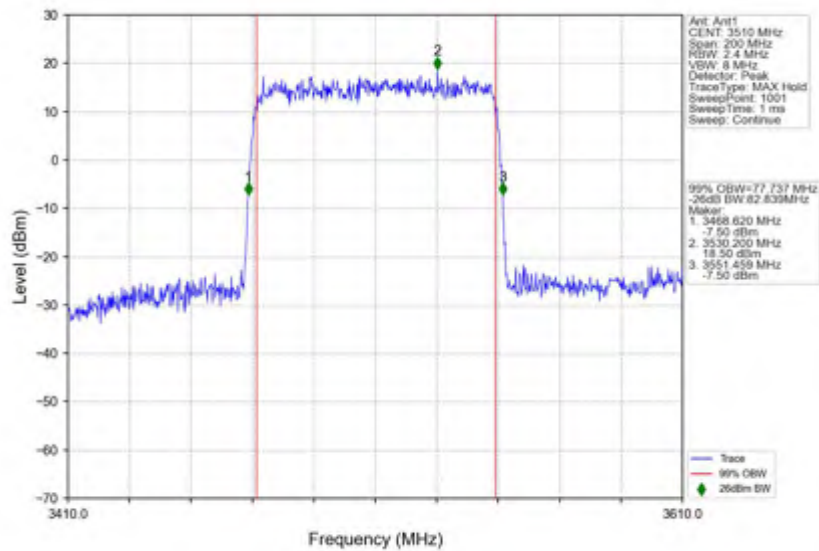
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM 64 QAM 3490.02MHz\_Outer\_Full



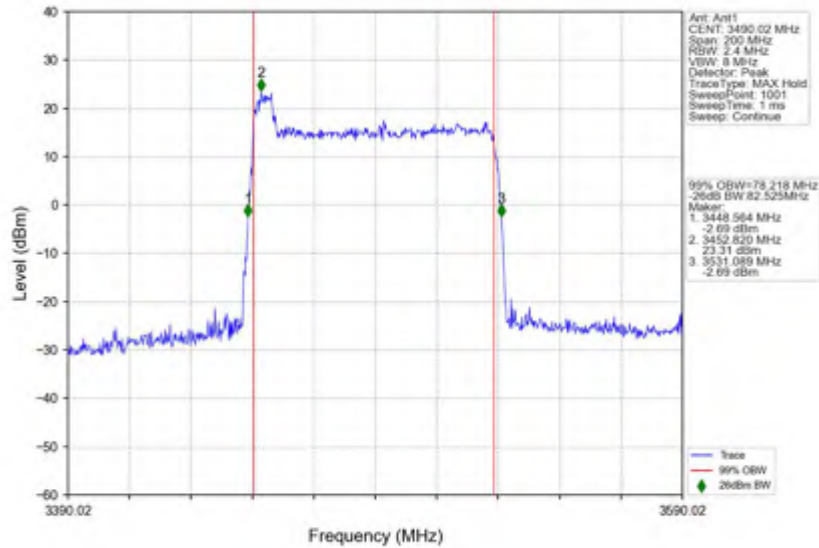
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM\_64\_QAM\_3500.01MHz\_Outer\_Full



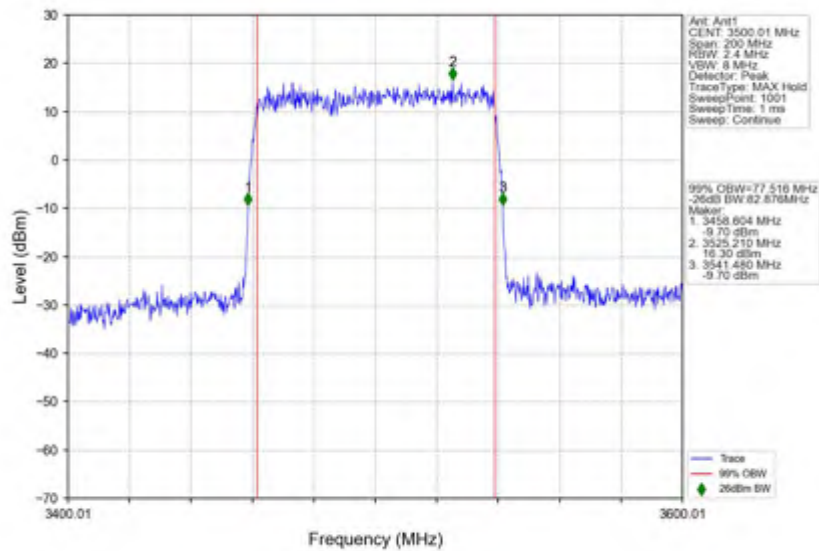
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM\_64\_QAM\_3510MHz\_Outer\_Full



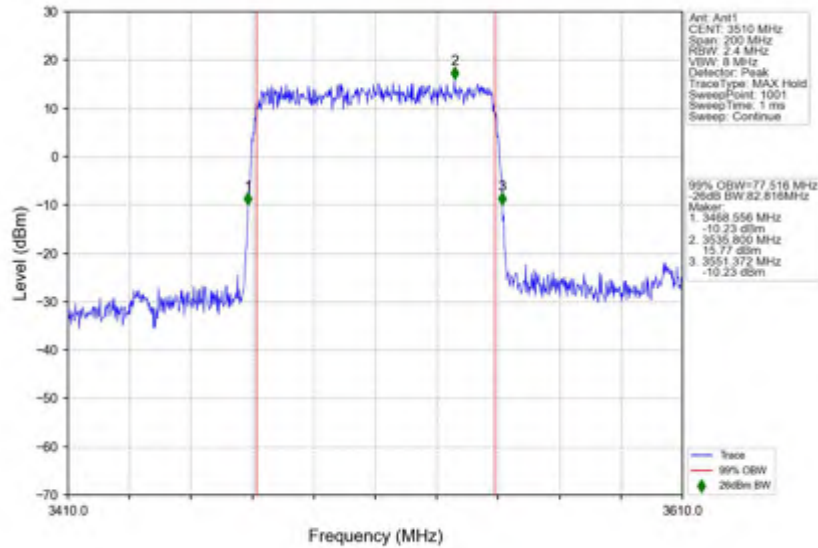
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM\_256\_QAM\_3490.02MHz\_Outer\_Full



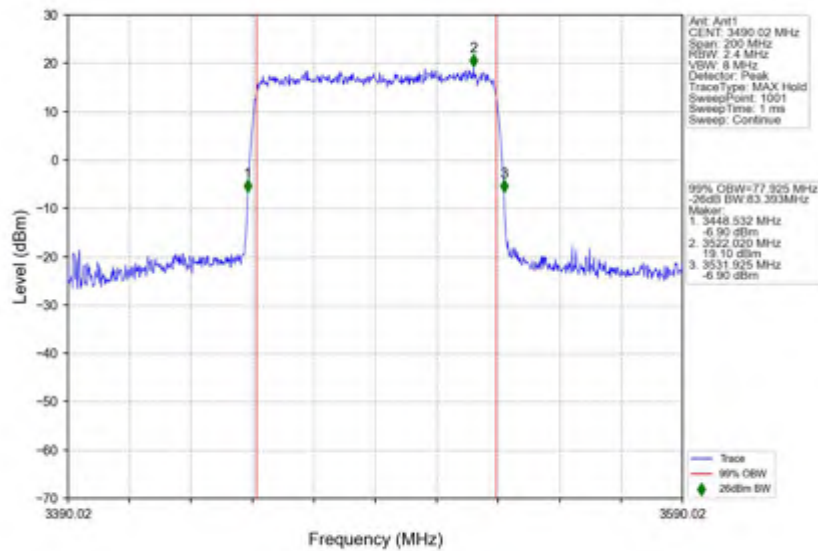
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full



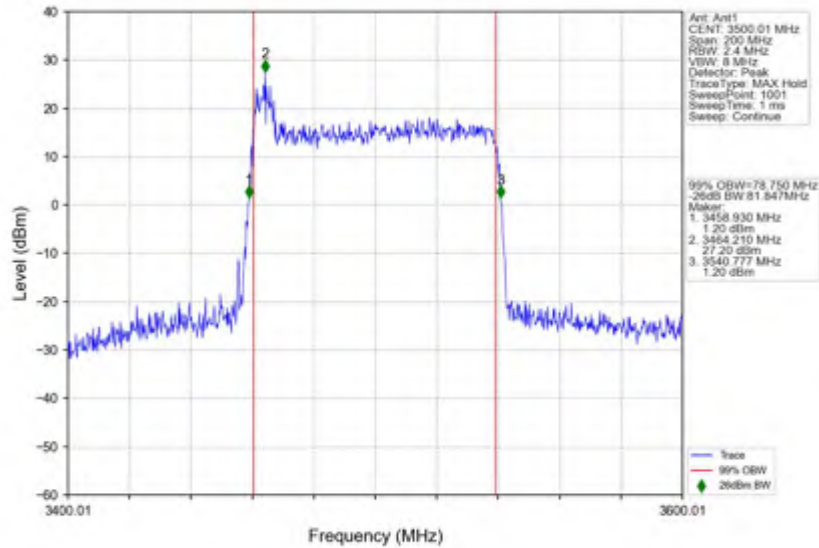
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM\_256\_QAM\_3510MHz\_Outer\_Full



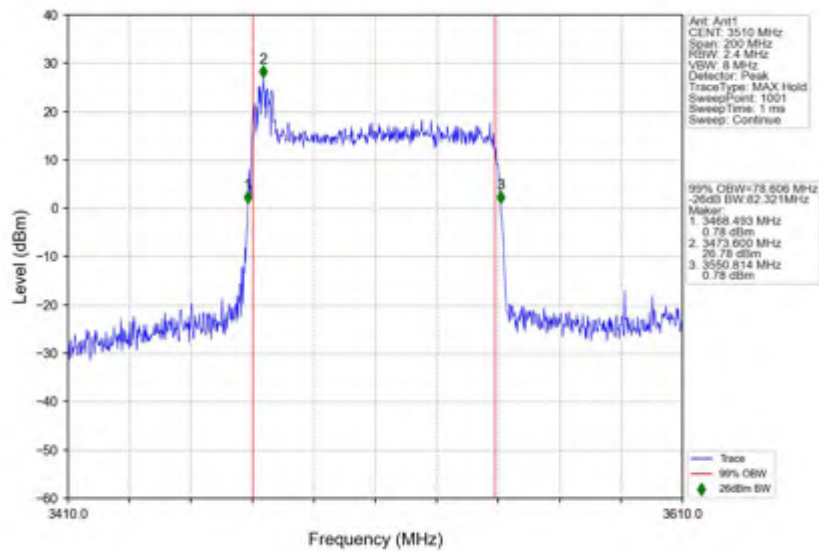
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM\_QPSK\_3490.02MHz\_Outer\_Full



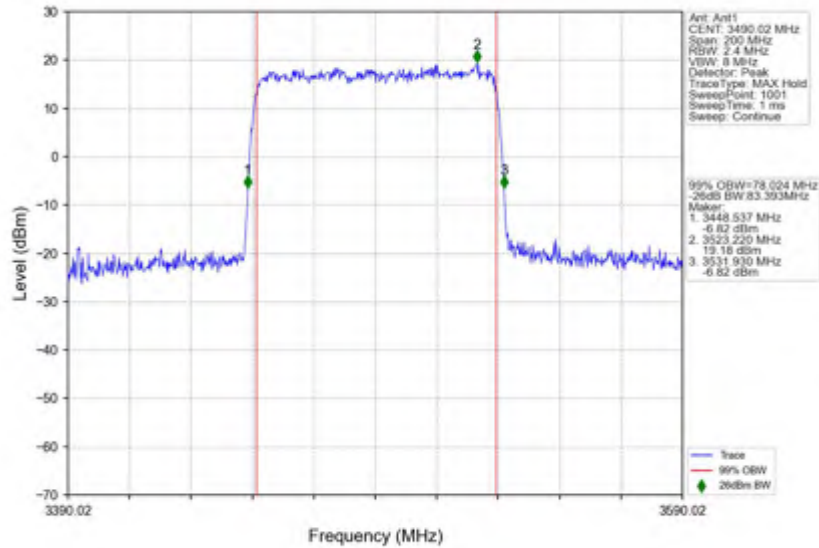
n78(3450-3550MHz) 30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM QPSK\_3500.01MHz\_Outer\_Full



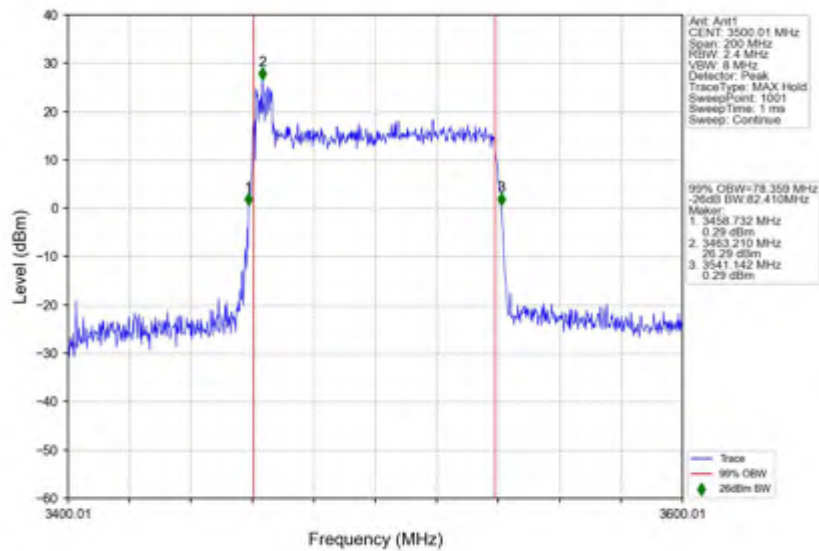
n78(3450-3550MHz) 30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM QPSK\_3510MHz\_Outer\_Full



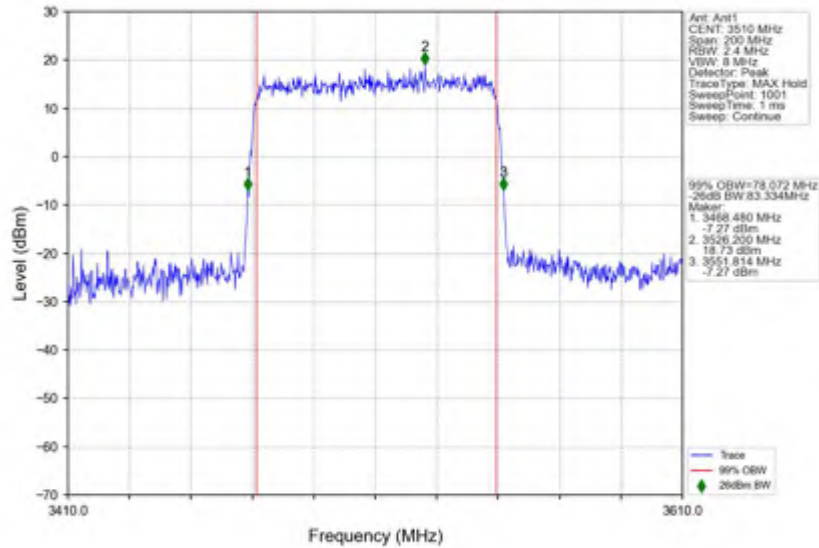
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM\_16\_QAM\_3490.02MHz\_Outer\_Full



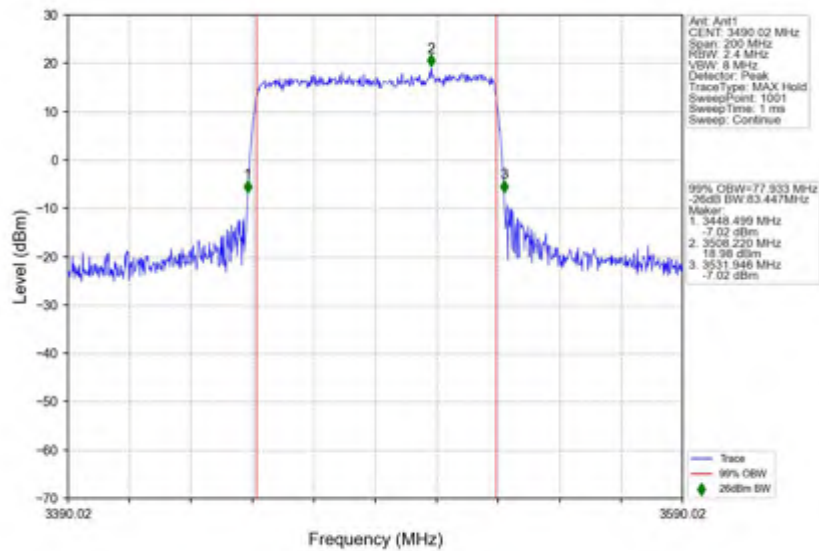
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full



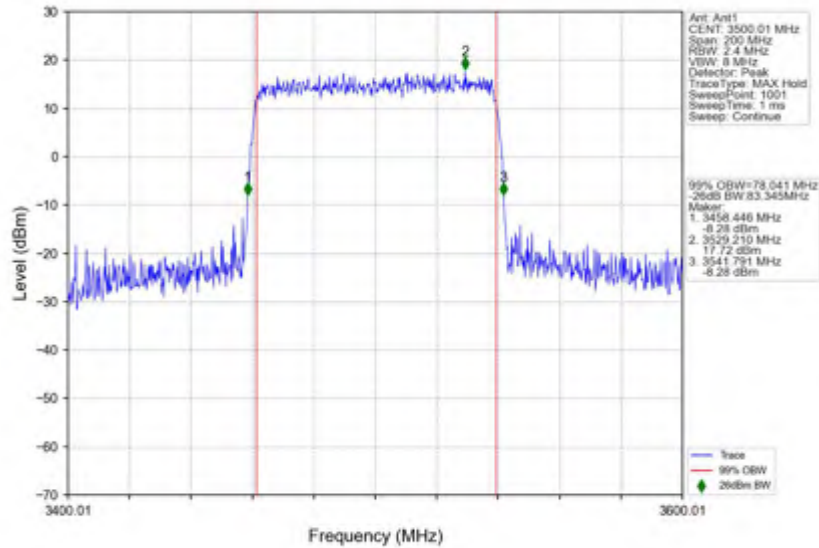
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM 16 QAM\_3510MHz\_Outer\_Full



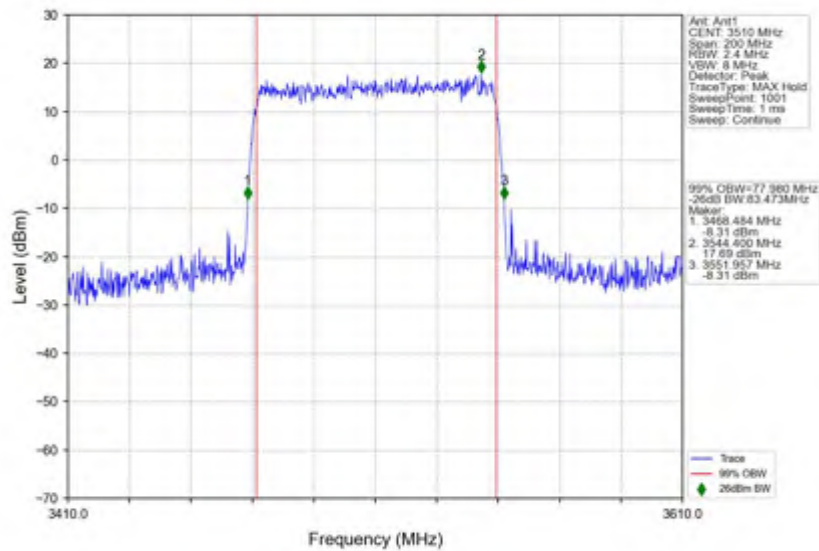
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM 64 QAM\_3490.02MHz\_Outer\_Full



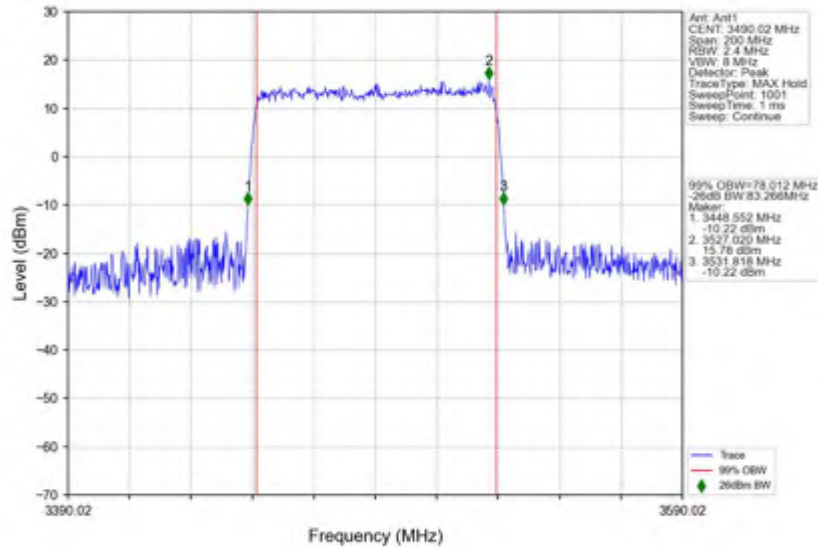
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM 64 QAM\_3500.01MHz\_Outer\_Full



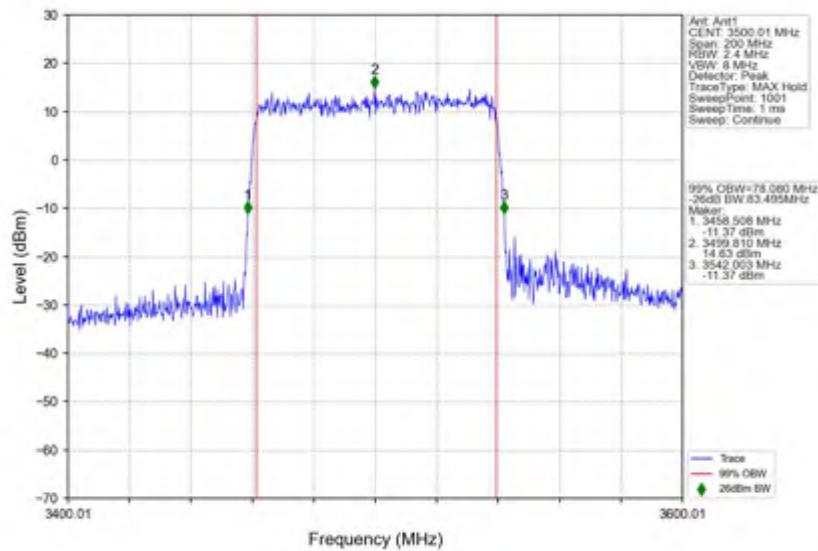
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM 64 QAM\_3510MHz\_Outer\_Full



n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM 256 QAM\_3490.02MHz\_Outer\_Full

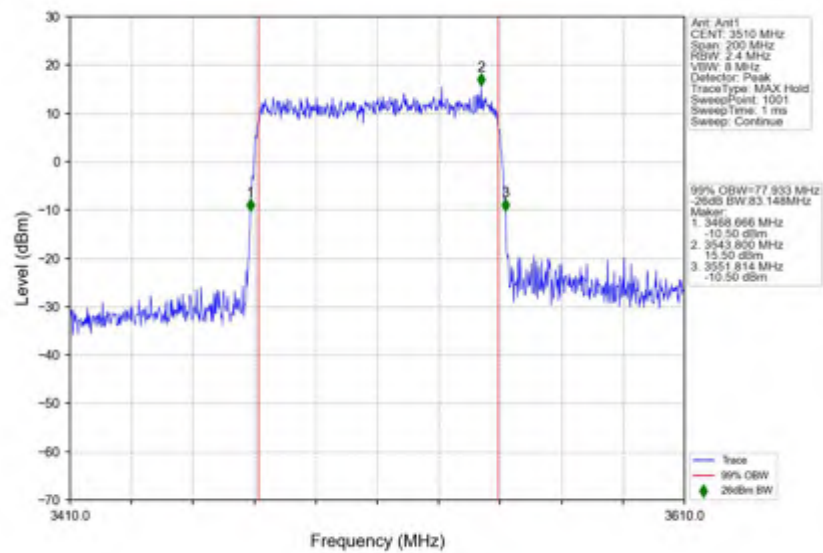


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM 256 QAM\_3500.01MHz\_Outer\_Full





n78(3450-3550MHz) 30kHz SISO NTN 80MHz CP-OFDM 256 QAM 3510MHz Outer Full





### 3.8 30k\_SISO\_90MHz\_NTNV

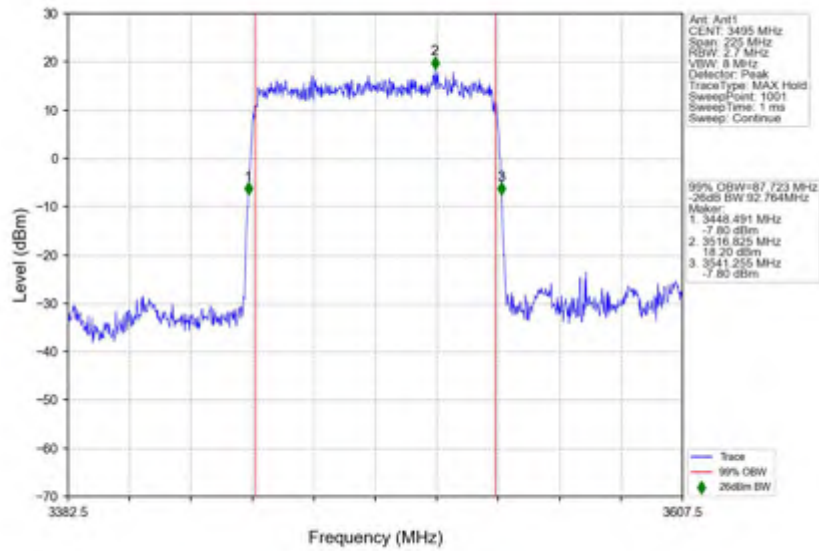
#### 3.8.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 90MHz NTN |                 |               |                     |                      |             |         |
|--------------------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK                             | 3495            | Outer_Full    | 87.72               | 92.76                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 87.10               | 92.98                | /           | Pass    |
|                                                  | 3504.99         | Outer_Full    | 87.25               | 92.97                | /           | Pass    |
| DFT-s-OFDM QPSK                                  | 3495            | Outer_Full    | 87.47               | 93.13                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 87.52               | 92.84                | /           | Pass    |
|                                                  | 3504.99         | Outer_Full    | 87.11               | 92.77                | /           | Pass    |
| DFT-s-OFDM 16 QAM                                | 3495            | Outer_Full    | 87.37               | 92.86                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 87.22               | 93.09                | /           | Pass    |
|                                                  | 3504.99         | Outer_Full    | 87.41               | 93.00                | /           | Pass    |
| DFT-s-OFDM 64 QAM                                | 3495            | Outer_Full    | 87.57               | 93.23                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 87.27               | 93.21                | /           | Pass    |
|                                                  | 3504.99         | Outer_Full    | 87.36               | 93.52                | /           | Pass    |
| DFT-s-OFDM 256 QAM                               | 3495            | Outer_Full    | 86.93               | 93.25                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 87.16               | 92.88                | /           | Pass    |
|                                                  | 3504.99         | Outer_Full    | 87.40               | 92.97                | /           | Pass    |
| CP-OFDM QPSK                                     | 3495            | Outer_Full    | 87.98               | 93.61                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 89.05               | 92.58                | /           | Pass    |
|                                                  | 3504.99         | Outer_Full    | 88.77               | 93.48                | /           | Pass    |
| CP-OFDM 16 QAM                                   | 3495            | Outer_Full    | 88.04               | 93.78                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 88.00               | 93.81                | /           | Pass    |
|                                                  | 3504.99         | Outer_Full    | 87.73               | 93.90                | /           | Pass    |
| CP-OFDM 64 QAM                                   | 3495            | Outer_Full    | 87.87               | 93.85                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 87.87               | 93.72                | /           | Pass    |
|                                                  | 3504.99         | Outer_Full    | 87.89               | 93.75                | /           | Pass    |
| CP-OFDM 256 QAM                                  | 3495            | Outer_Full    | 88.42               | 93.40                | /           | Pass    |
|                                                  | 3500.01         | Outer_Full    | 87.75               | 93.17                | /           | Pass    |
|                                                  | 3504.99         | Outer_Full    | 88.12               | 93.57                | /           | Pass    |

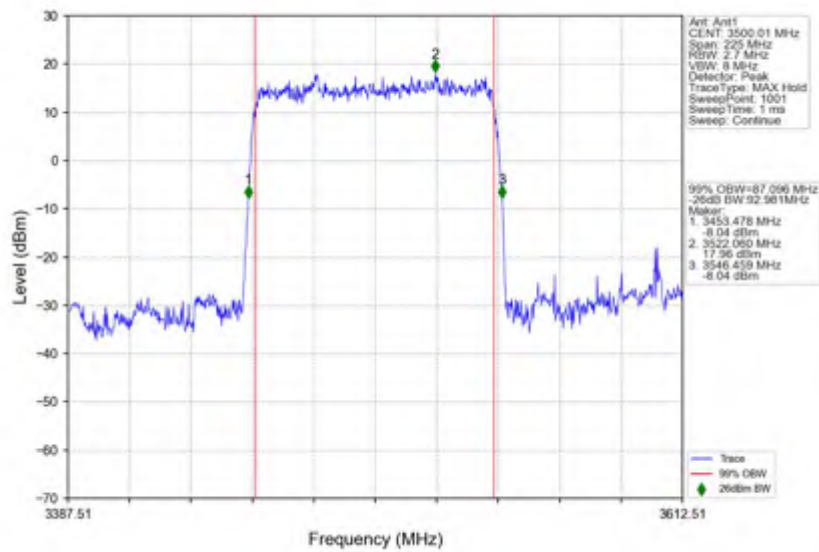


### 3.8.2 Test Graph

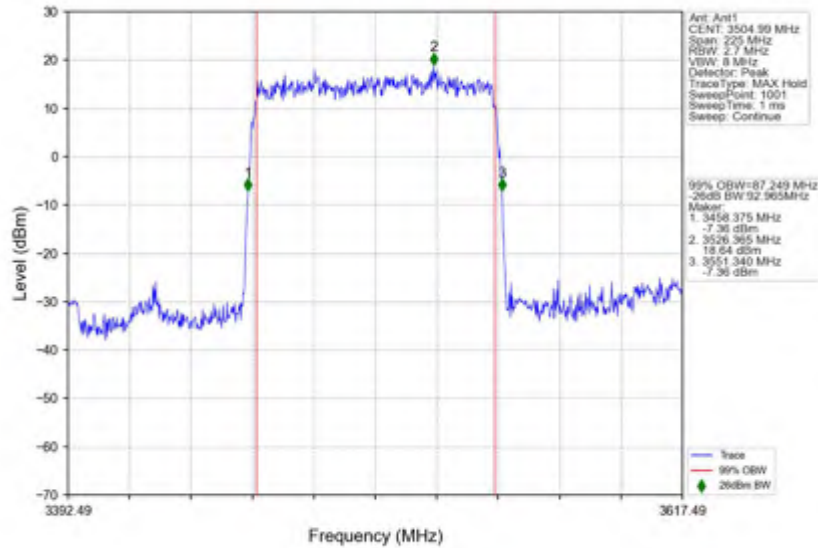
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM PI/2 BPSK\_3495MHz\_Outer\_Full



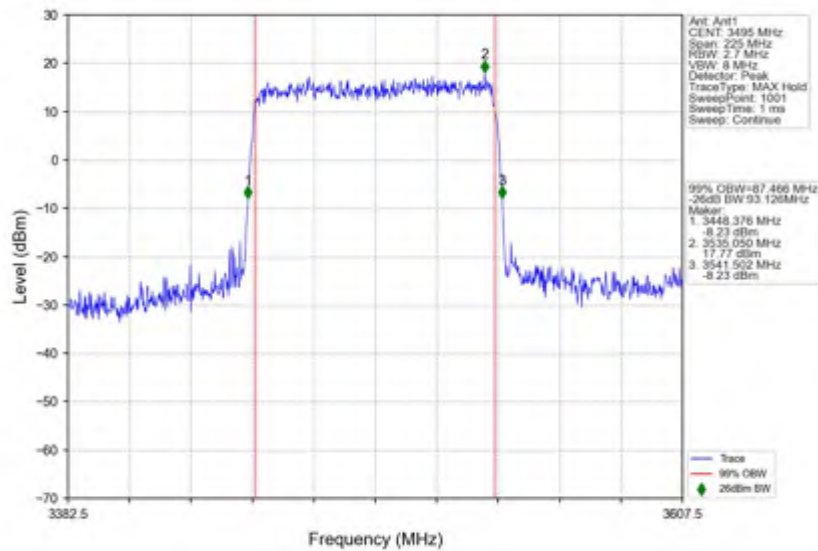
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM PI/2 BPSK\_3500.01MHz\_Outer\_Full



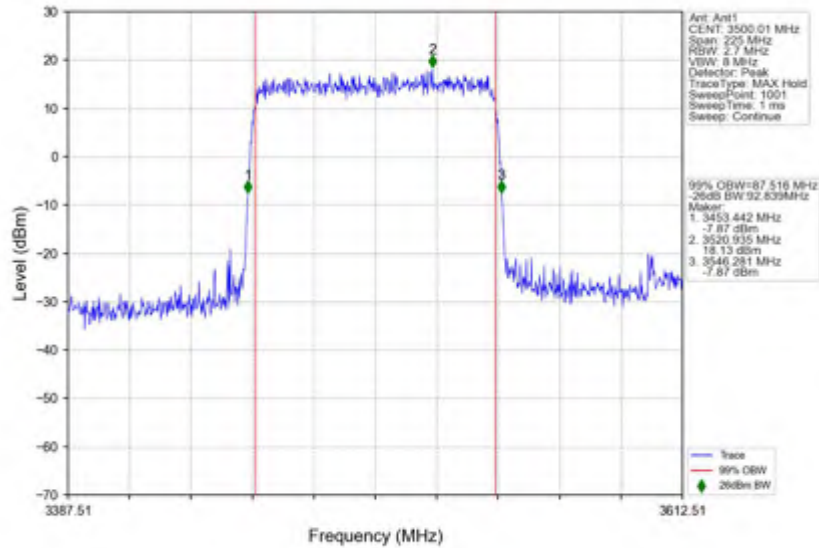
n78(3450-3550MHz) 30kHz SISO NTN 90MHz DFT-s-OFDM PI/2 BPSK 3504.99MHz Outer Full



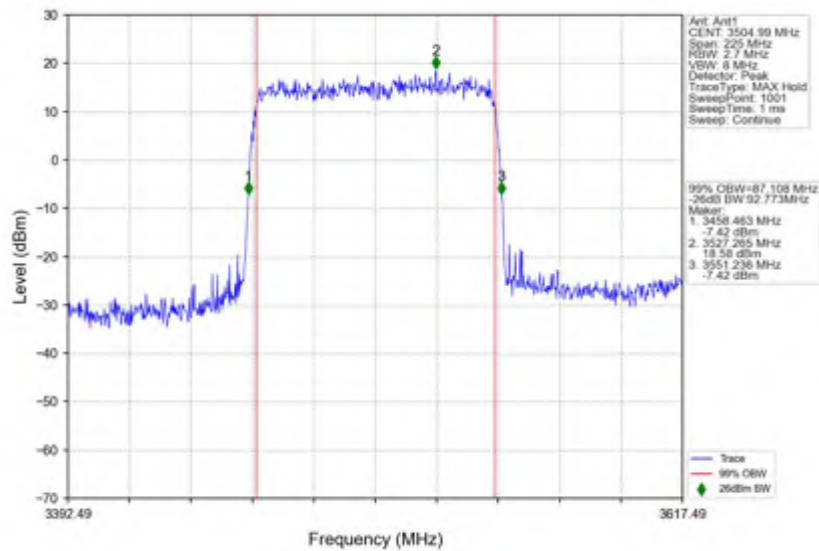
n78(3450-3550MHz) 30kHz SISO NTN 90MHz DFT-s-OFDM QPSK 3495MHz Outer Full



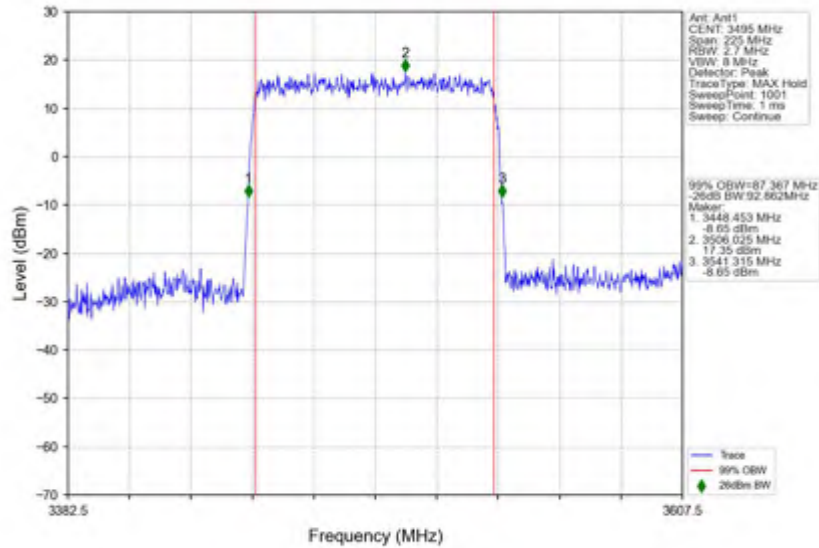
n78(3450-3550MHz) 30kHz SISO NTN 90MHz DFT-s-OFDM QPSK 3500.01MHz Outer Full



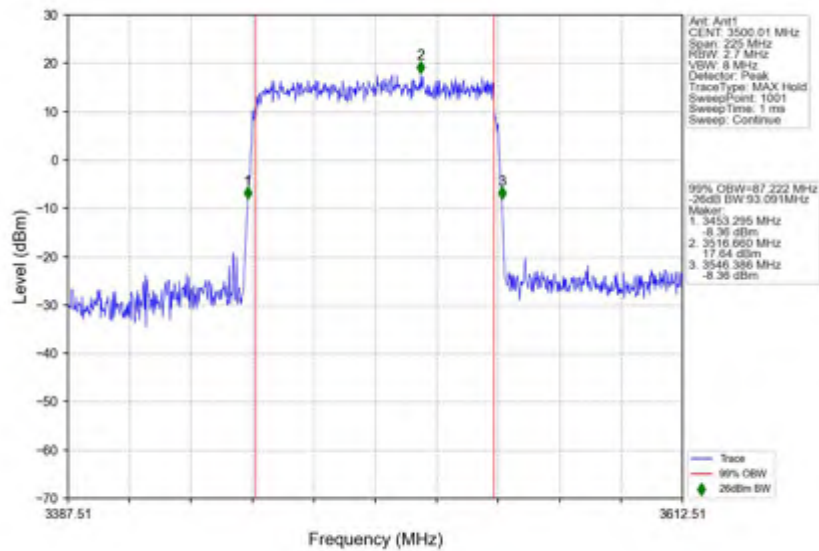
n78(3450-3550MHz) 30kHz SISO NTN 90MHz DFT-s-OFDM QPSK 3504.99MHz Outer Full



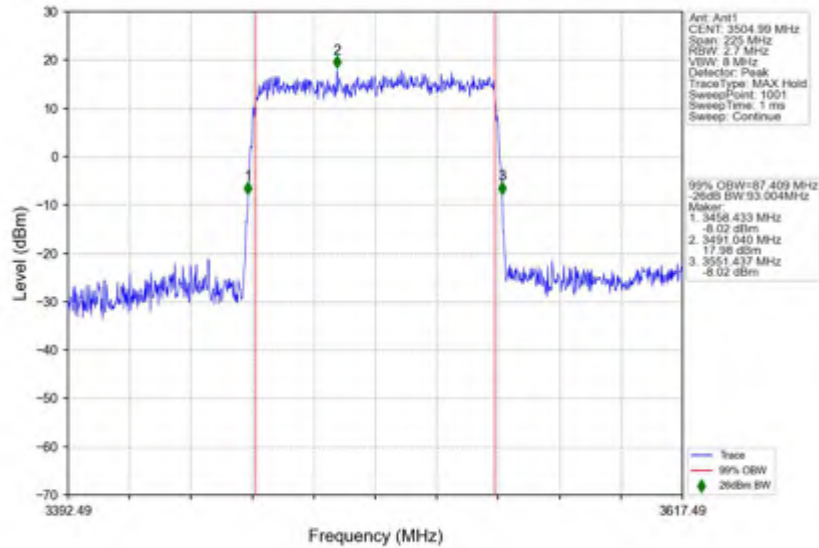
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_16\_QAM\_3495MHz\_Outer\_Full



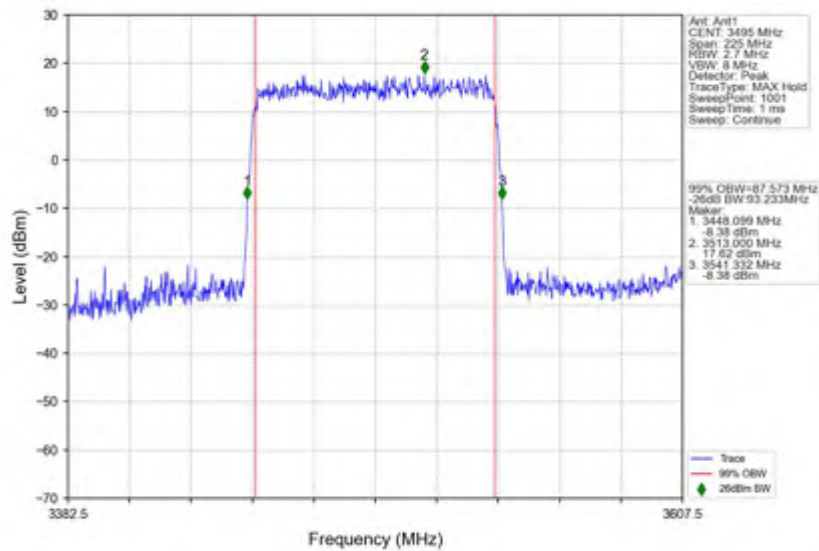
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full



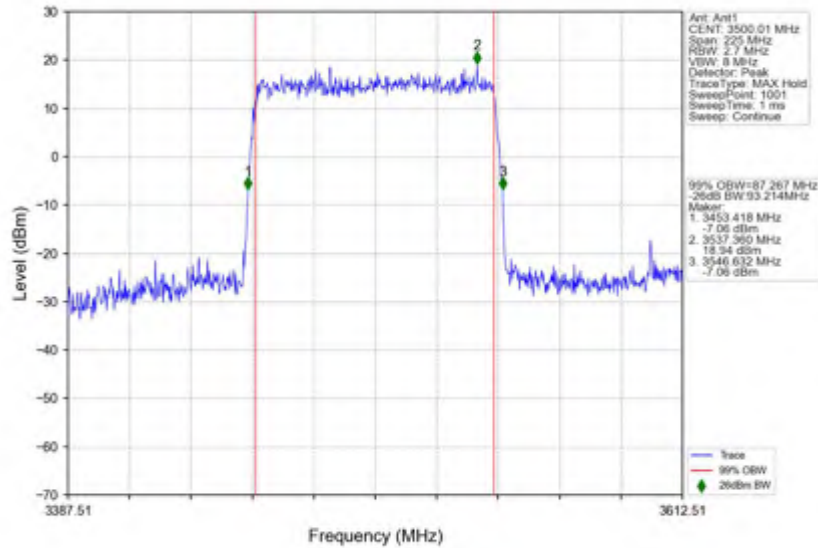
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_16\_QAM\_3504.99MHz\_Outer\_Full



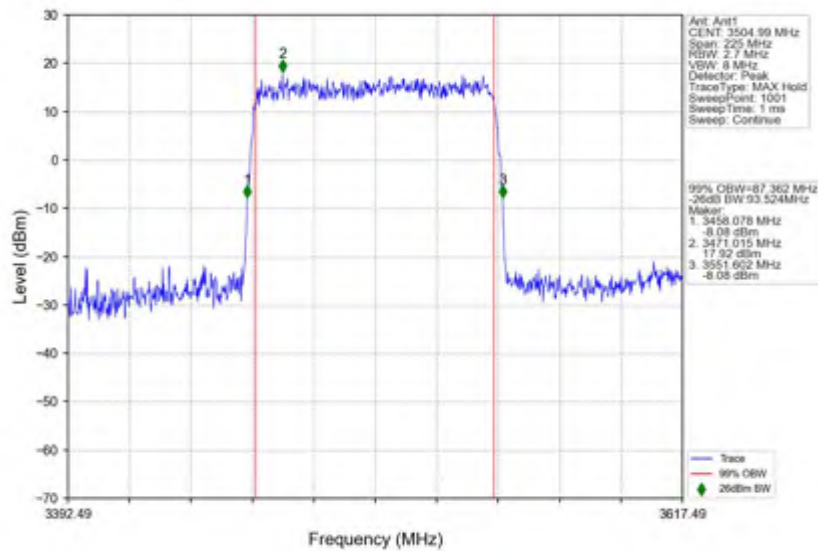
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_64\_QAM\_3495MHz\_Outer\_Full



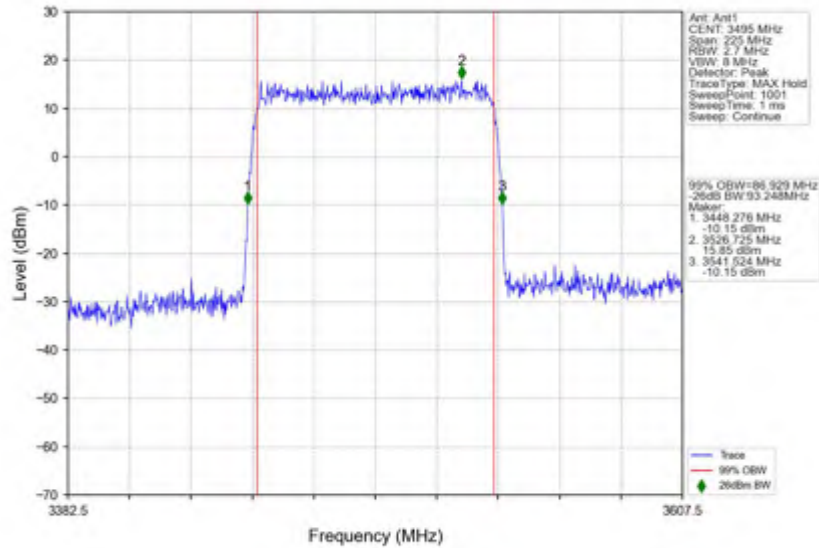
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_64\_QAM\_3500.01MHz\_Outer\_Full



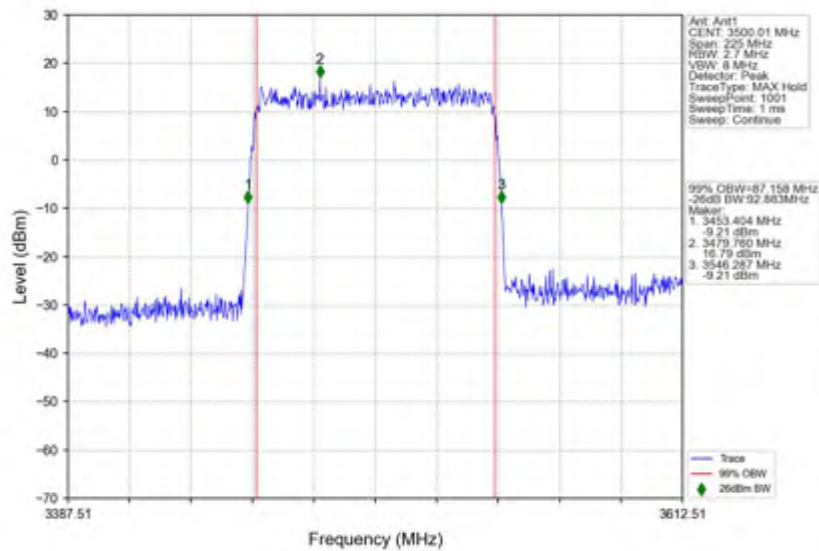
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_64\_QAM\_3504.99MHz\_Outer\_Full



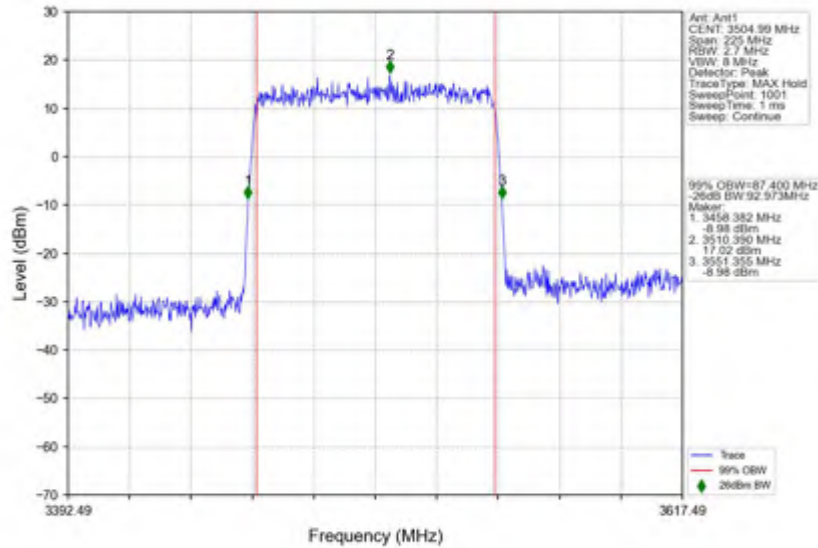
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_256\_QAM\_3495MHz\_Outer\_Full



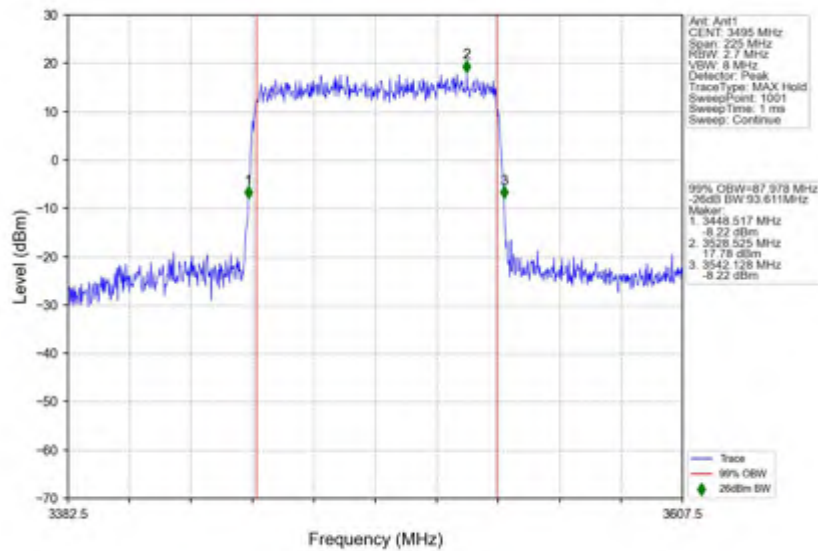
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full



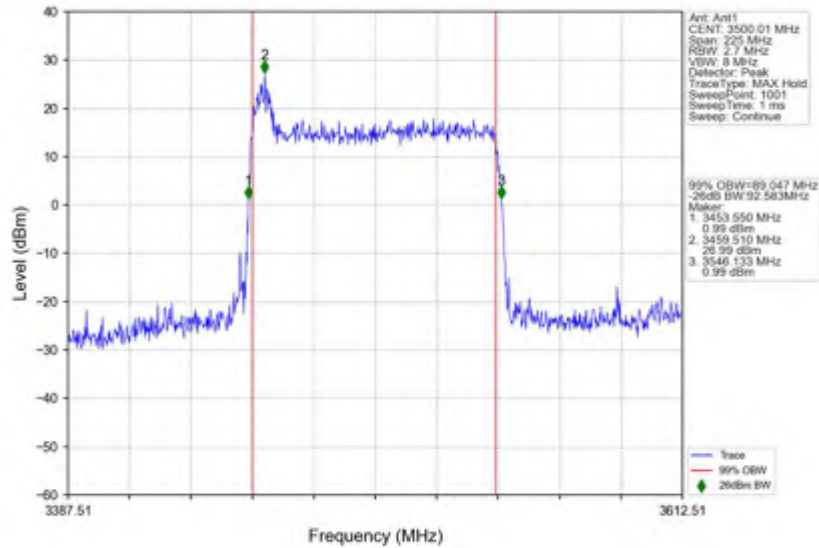
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_256\_QAM\_3504.99MHz\_Outer\_Full



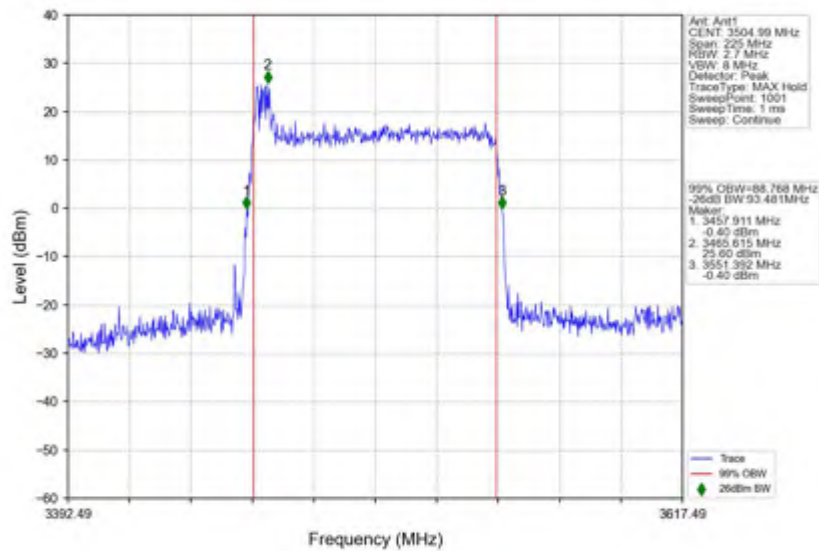
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_QPSK\_3495MHz\_Outer\_Full



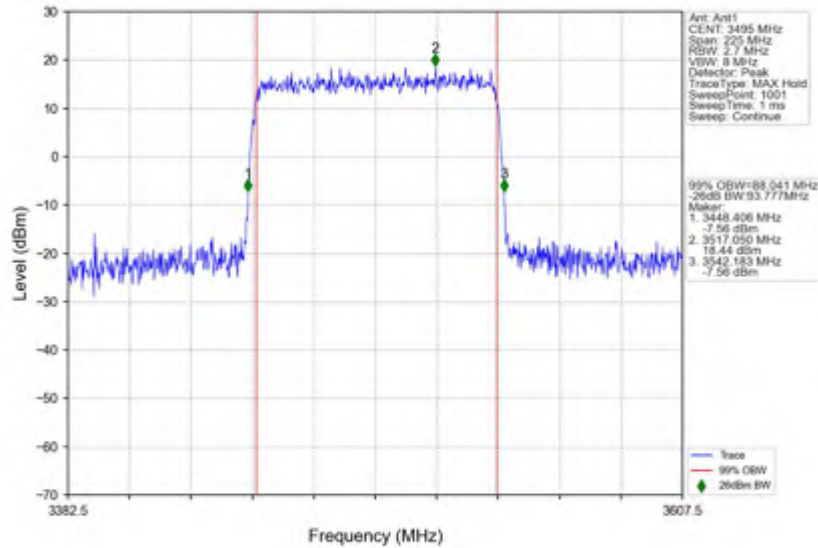
n78(3450-3550MHz) 30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM QPSK 3500.01MHz\_Outer\_Full



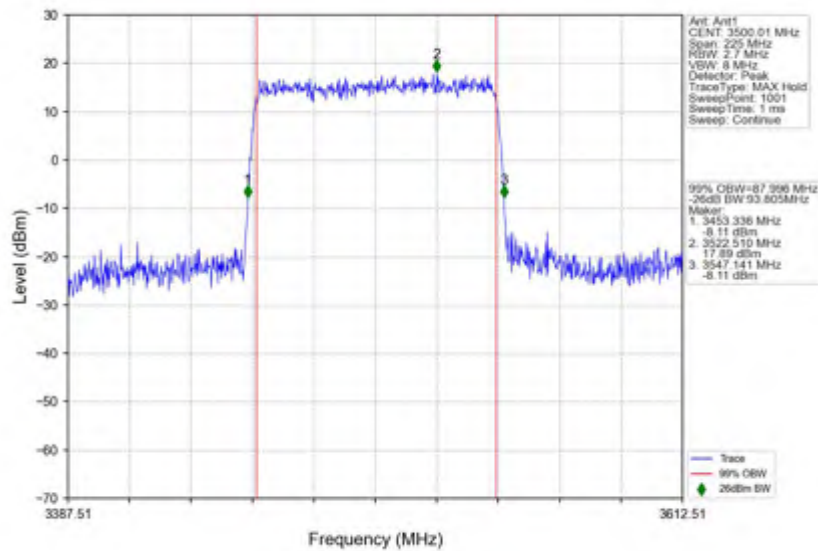
n78(3450-3550MHz) 30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM QPSK 3504.99MHz\_Outer\_Full



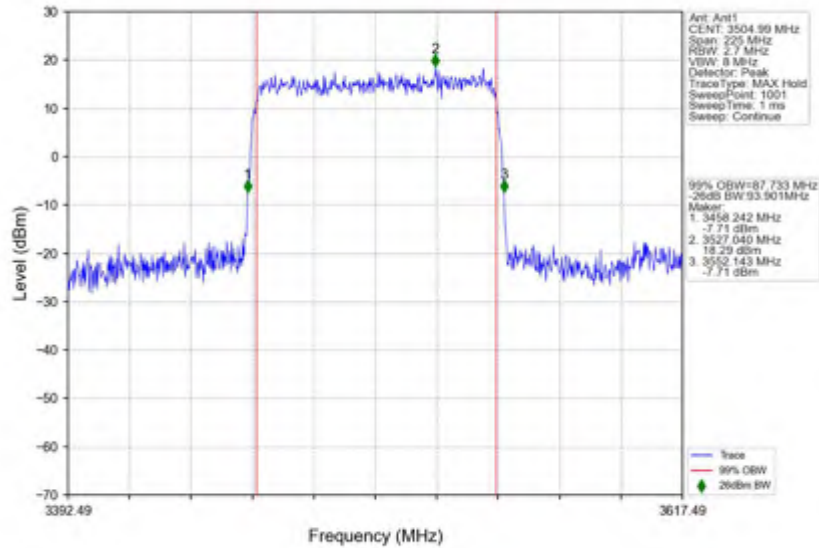
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_16\_QAM\_3495MHz\_Outer\_Full



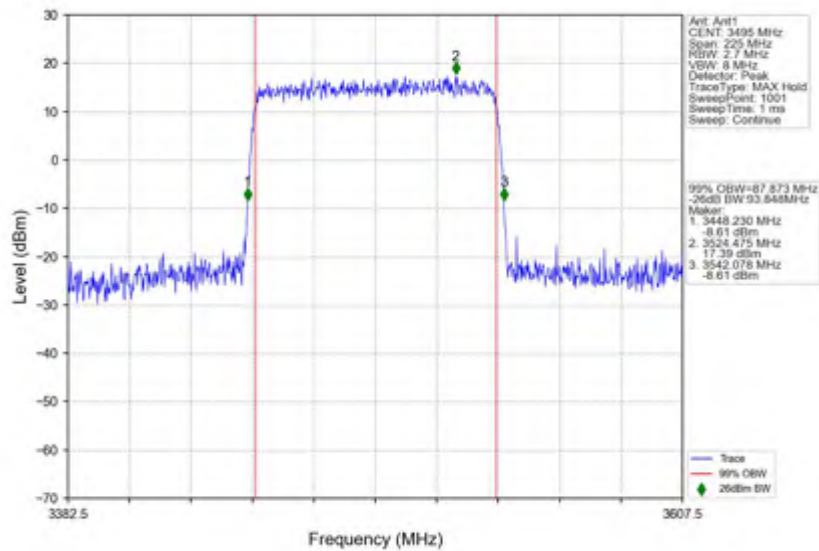
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full



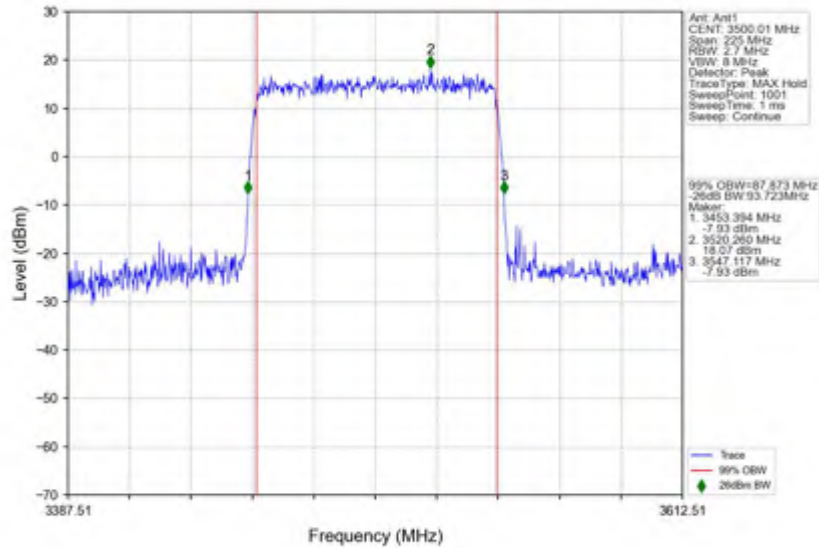
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM 16 QAM\_3504.99MHz\_Outer\_Full



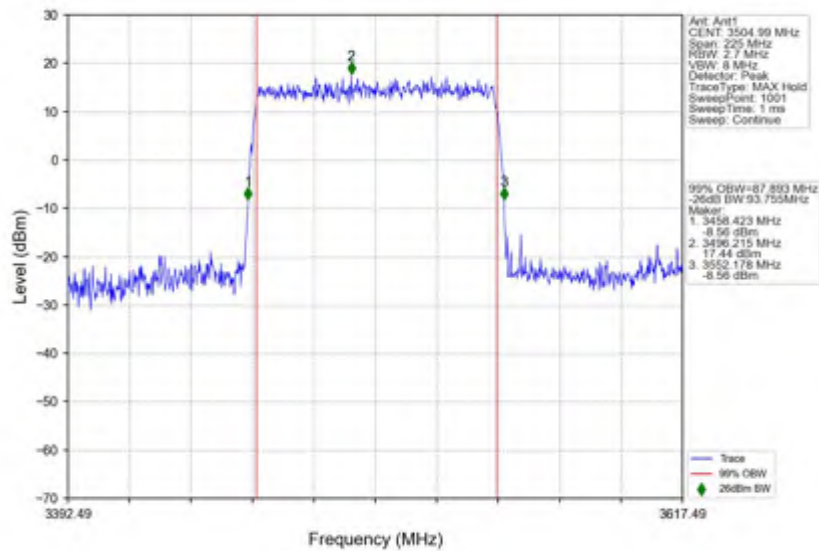
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM 64 QAM\_3495MHz\_Outer\_Full



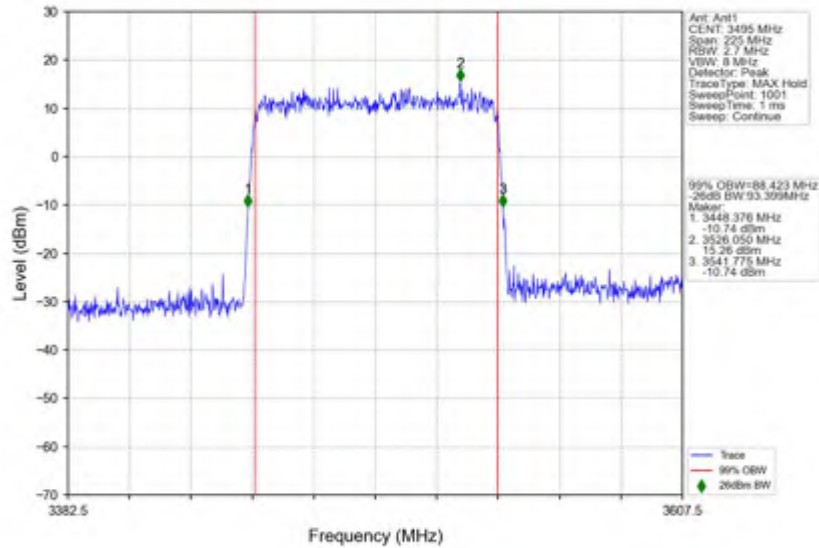
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM 64 QAM\_3500.01MHz\_Outer\_Full



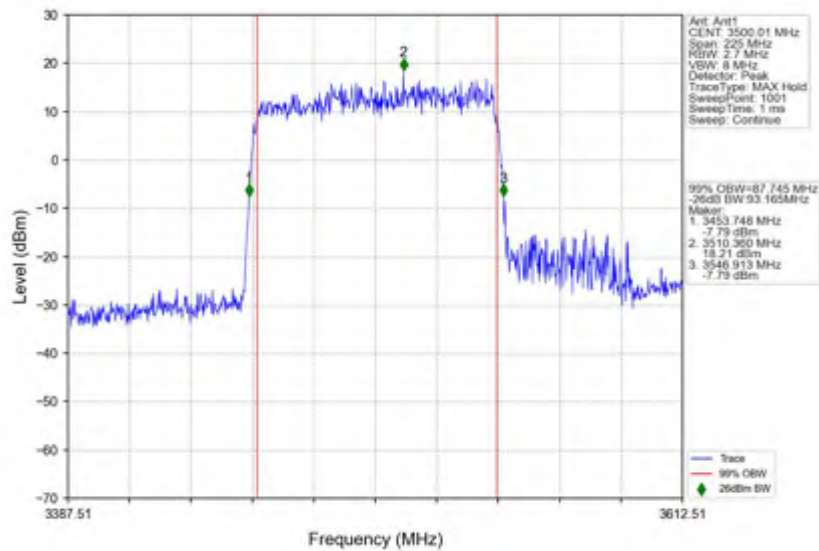
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM 64 QAM\_3504.99MHz\_Outer\_Full



n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_256\_QAM\_3495MHz\_Outer\_Full

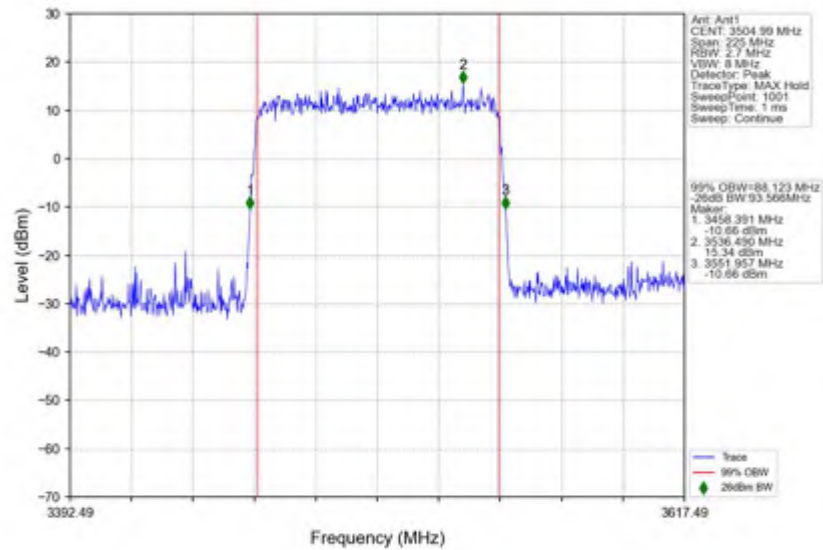


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full





n78(3450-3550MHz) 30kHz SISO NTN 90MHz CP-OFDM 256 QAM 3504.99MHz Outer Full





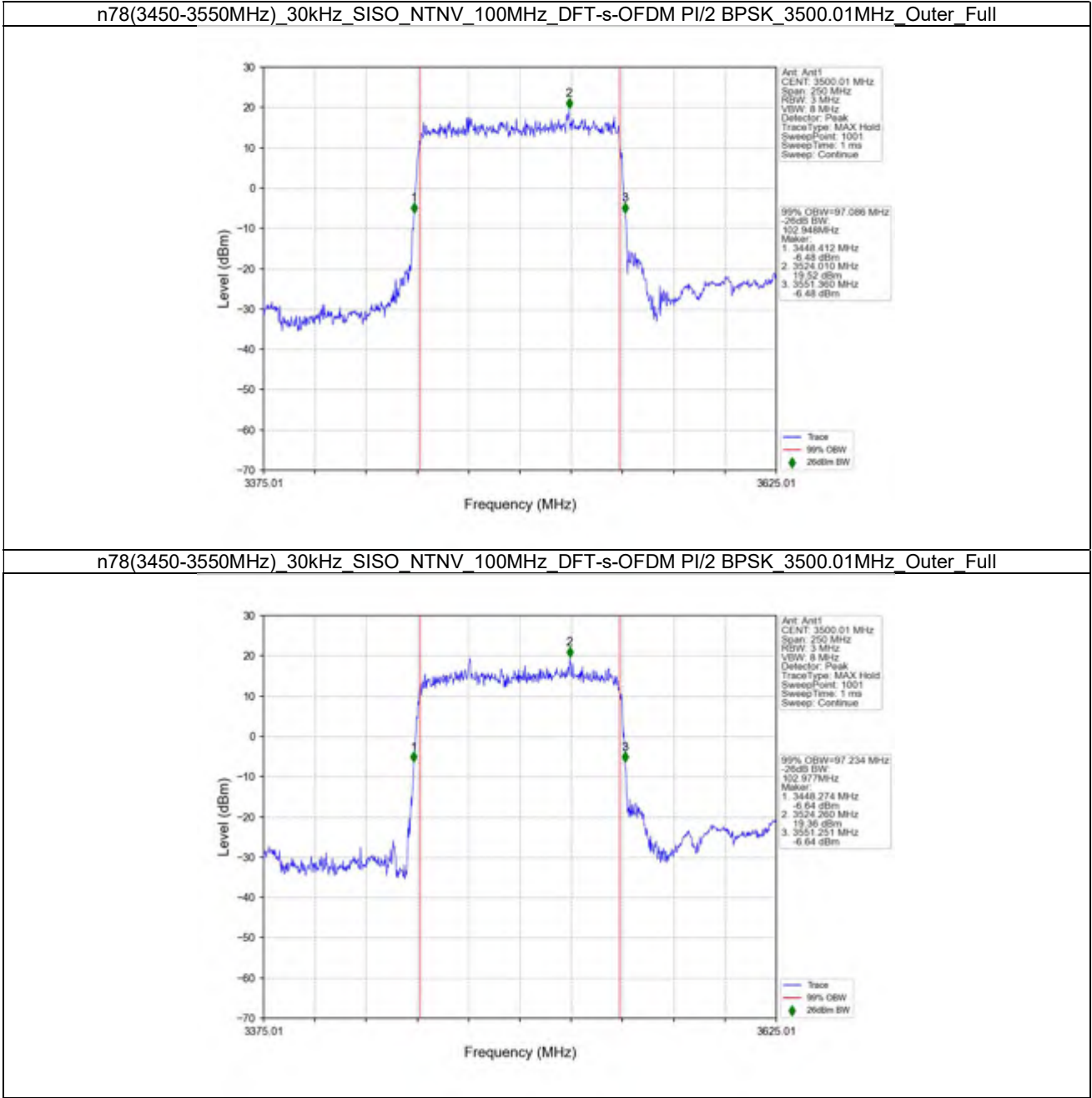
### 3.9 30k\_SISO\_100MHz\_NTNV

#### 3.9.1 Test Result

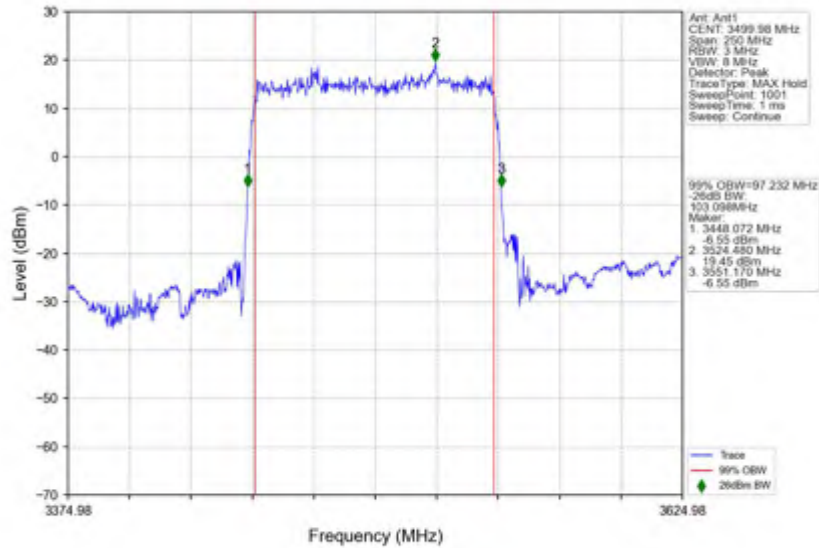
| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 100MHz NTN |                 |               |                     |                      |             |         |
|---------------------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                                        | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK                              | 3500.01         | Outer_Full    | 97.09               | 102.95               | /           | Pass    |
|                                                   | 3500.01         | Outer_Full    | 97.23               | 102.98               | /           | Pass    |
|                                                   | 3499.98         | Outer_Full    | 97.23               | 103.10               | /           | Pass    |
| DFT-s-OFDM QPSK                                   | 3500.01         | Outer_Full    | 97.05               | 103.45               | /           | Pass    |
|                                                   | 3500.01         | Outer_Full    | 96.86               | 103.31               | /           | Pass    |
|                                                   | 3499.98         | Outer_Full    | 97.07               | 103.70               | /           | Pass    |
| DFT-s-OFDM 16 QAM                                 | 3500.01         | Outer_Full    | 97.15               | 103.36               | /           | Pass    |
|                                                   | 3500.01         | Outer_Full    | 96.90               | 103.40               | /           | Pass    |
|                                                   | 3499.98         | Outer_Full    | 97.06               | 103.40               | /           | Pass    |
| DFT-s-OFDM 64 QAM                                 | 3500.01         | Outer_Full    | 97.03               | 103.38               | /           | Pass    |
|                                                   | 3500.01         | Outer_Full    | 97.22               | 103.25               | /           | Pass    |
|                                                   | 3499.98         | Outer_Full    | 97.41               | 103.59               | /           | Pass    |
| DFT-s-OFDM 256 QAM                                | 3500.01         | Outer_Full    | 98.47               | 103.31               | /           | Pass    |
|                                                   | 3500.01         | Outer_Full    | 97.19               | 103.65               | /           | Pass    |
|                                                   | 3499.98         | Outer_Full    | 97.19               | 103.51               | /           | Pass    |
| CP-OFDM QPSK                                      | 3500.01         | Outer_Full    | 97.24               | 104.56               | /           | Pass    |
|                                                   | 3500.01         | Outer_Full    | 98.10               | 104.56               | /           | Pass    |
|                                                   | 3499.98         | Outer_Full    | 98.59               | 104.39               | /           | Pass    |
| CP-OFDM 16 QAM                                    | 3500.01         | Outer_Full    | 98.32               | 104.49               | /           | Pass    |
|                                                   | 3500.01         | Outer_Full    | 99.25               | 104.44               | /           | Pass    |
|                                                   | 3499.98         | Outer_Full    | 97.67               | 104.43               | /           | Pass    |
| CP-OFDM 64 QAM                                    | 3500.01         | Outer_Full    | 98.14               | 104.37               | /           | Pass    |
|                                                   | 3500.01         | Outer_Full    | 98.05               | 104.48               | /           | Pass    |
|                                                   | 3499.98         | Outer_Full    | 97.94               | 104.07               | /           | Pass    |
| CP-OFDM 256 QAM                                   | 3500.01         | Outer_Full    | 98.05               | 104.31               | /           | Pass    |
|                                                   | 3500.01         | Outer_Full    | 98.65               | 104.78               | /           | Pass    |
|                                                   | 3499.98         | Outer_Full    | 97.87               | 104.34               | /           | Pass    |



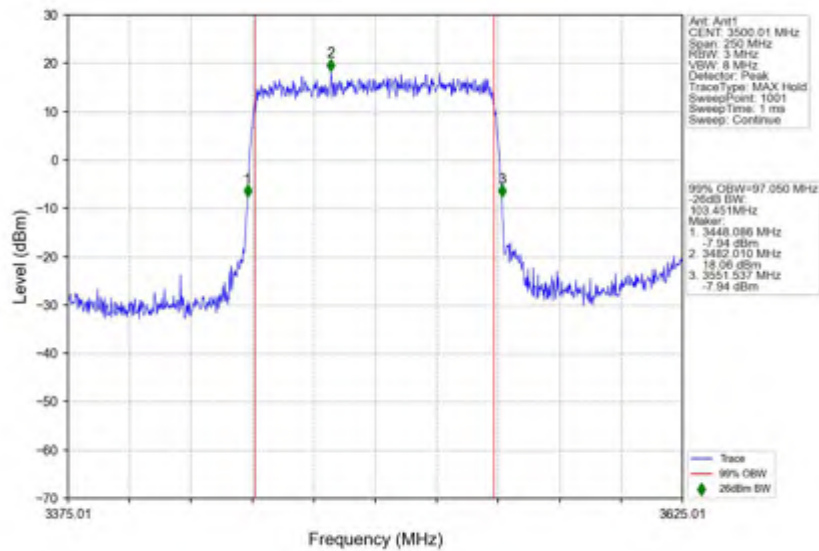
3.9.2 Test Graph



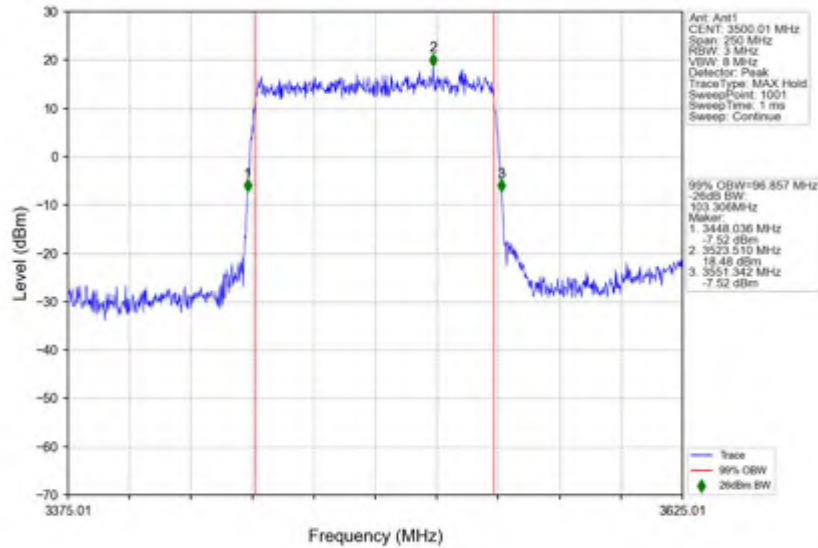
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM PI/2 BPSK 3499.98MHz\_Outer\_Full



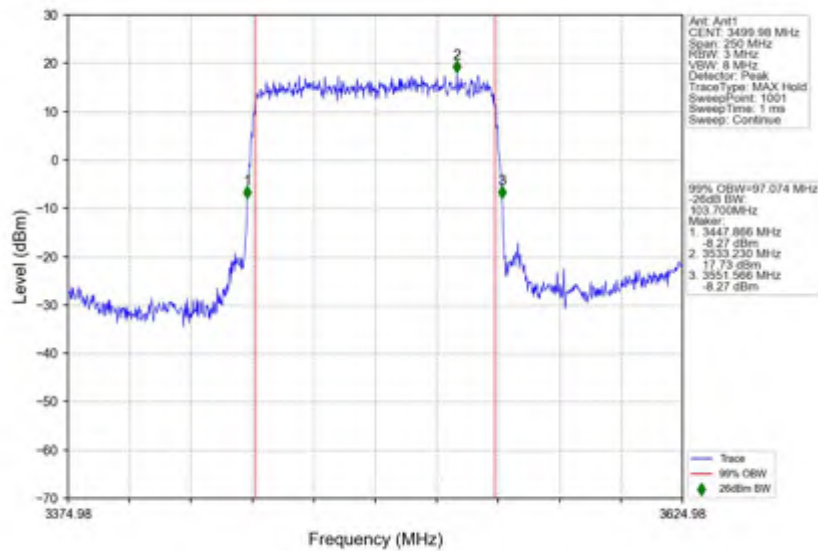
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM QPSK\_3500.01MHz\_Outer\_Full



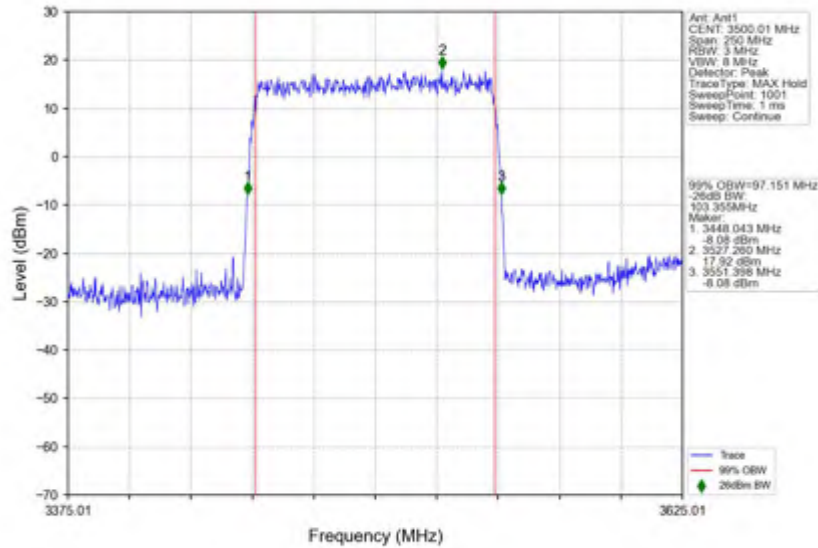
n78(3450-3550MHz) 30kHz SISO NTN 100MHz DFT-s-OFDM QPSK 3500.01MHz Outer Full



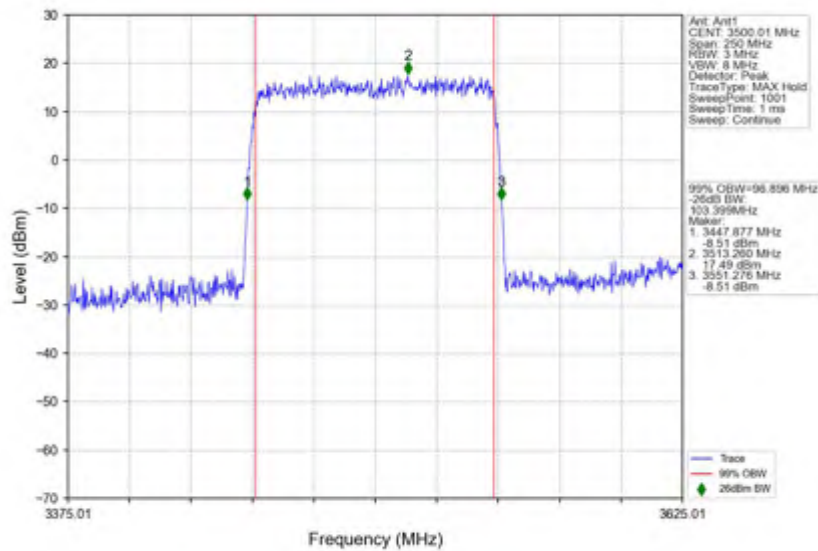
n78(3450-3550MHz) 30kHz SISO NTN 100MHz DFT-s-OFDM QPSK 3499.98MHz Outer Full



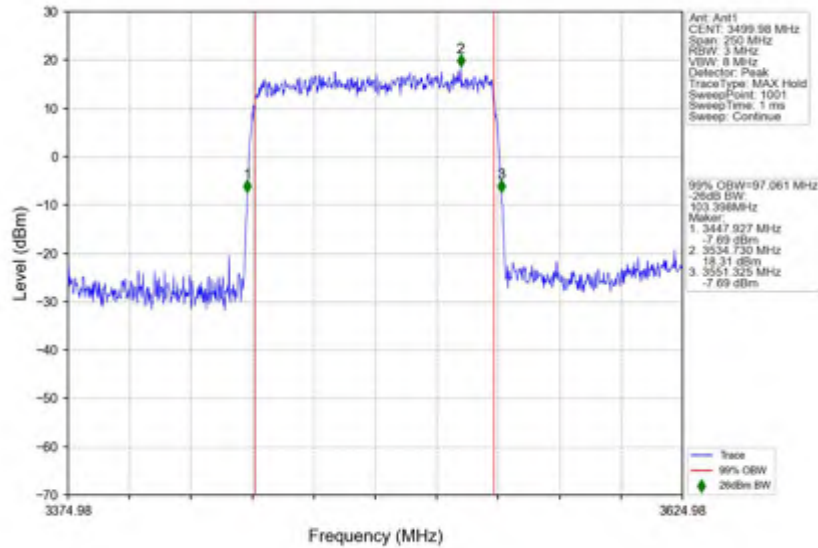
n78(3450-3550MHz) 30kHz SISO\_NTNV\_100MHz\_DFT-s-OFDM 16 QAM 3500.01MHz\_Outer\_Full



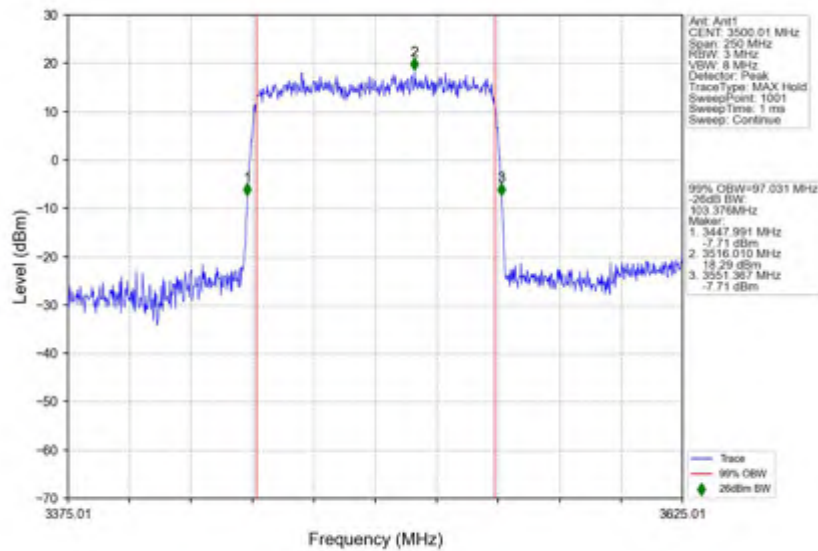
n78(3450-3550MHz) 30kHz SISO\_NTNV\_100MHz\_DFT-s-OFDM 16 QAM 3500.01MHz\_Outer\_Full



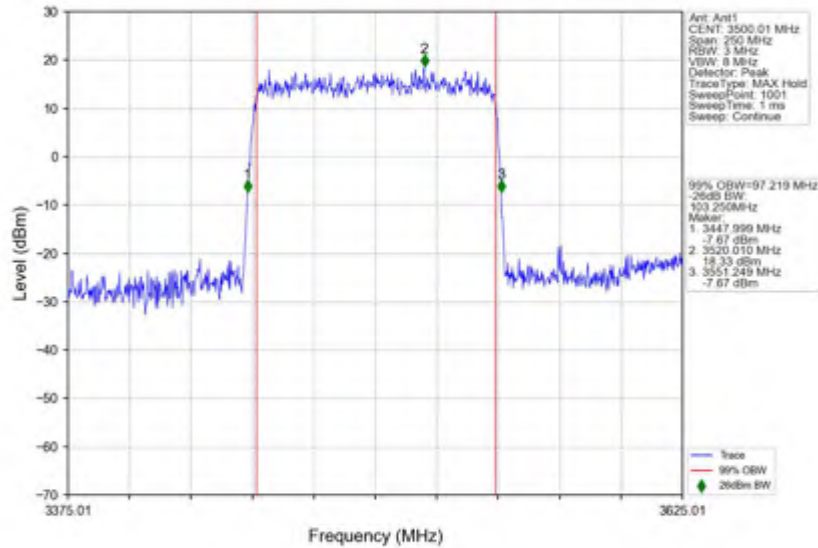
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_16\_QAM\_3499.98MHz\_Outer\_Full



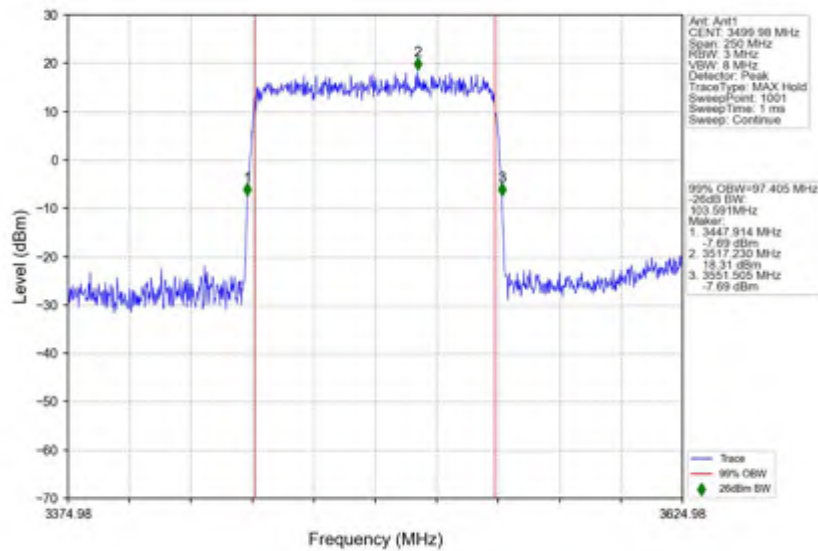
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_64\_QAM\_3500.01MHz\_Outer\_Full



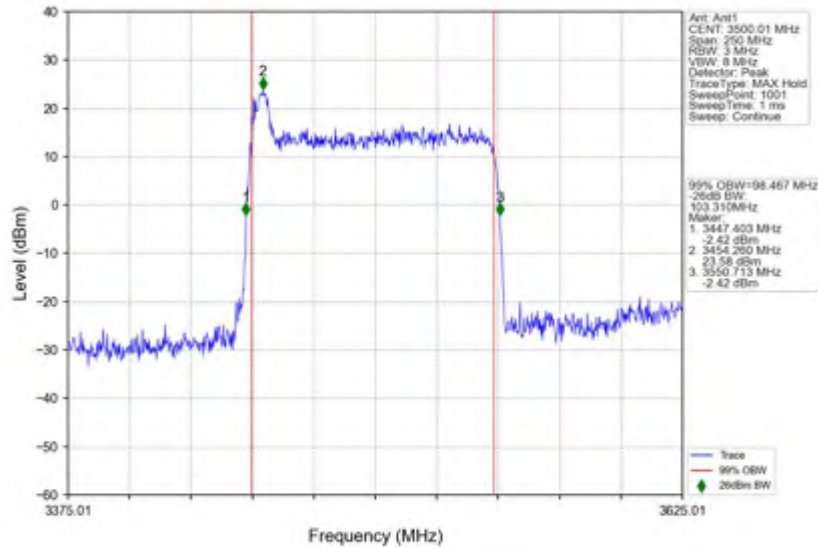
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_64\_QAM\_3500.01MHz\_Outer\_Full



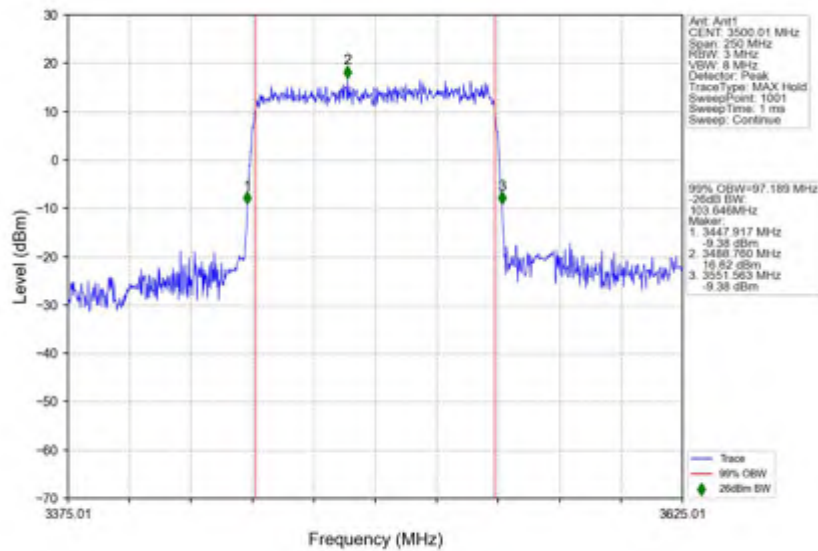
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_64\_QAM\_3499.98MHz\_Outer\_Full



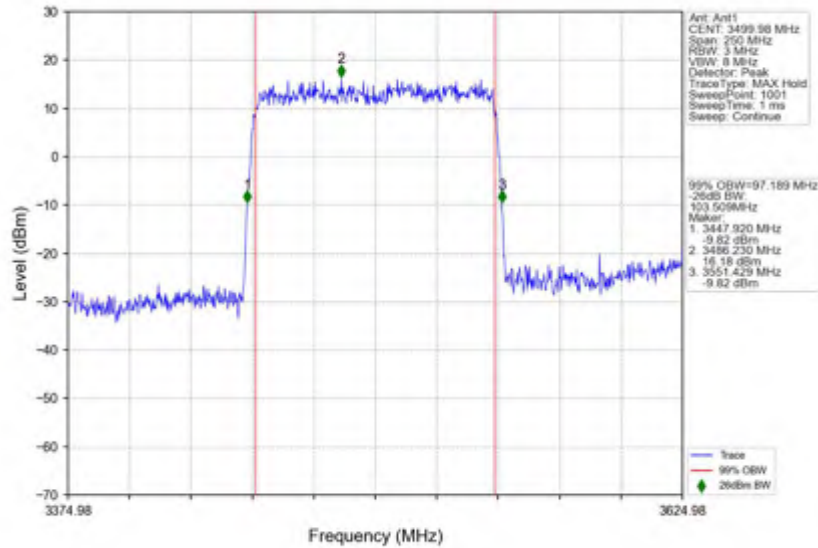
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full



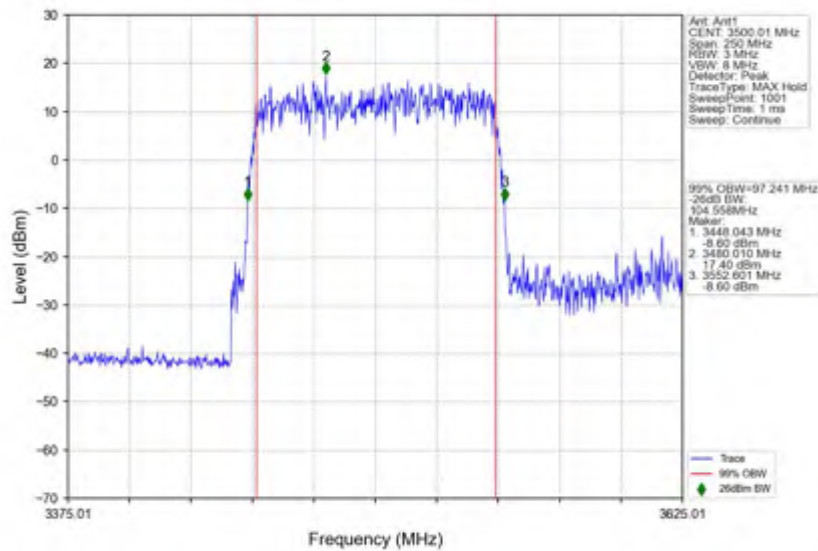
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full



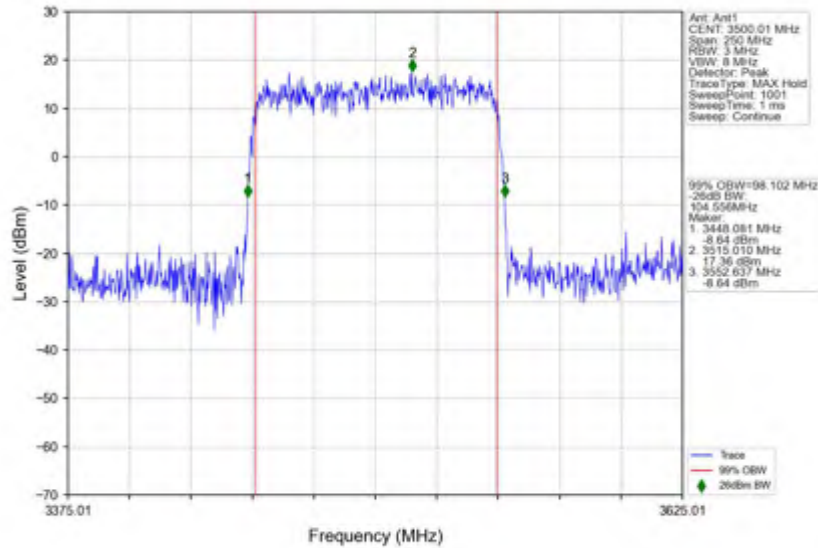
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_256\_QAM\_3499.98MHz\_Outer\_Full



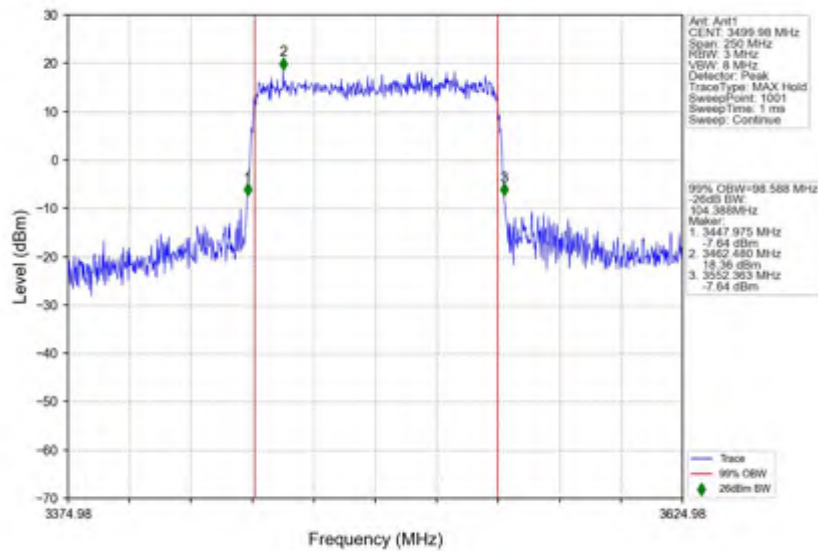
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM\_QPSK\_3500.01MHz\_Outer\_Full



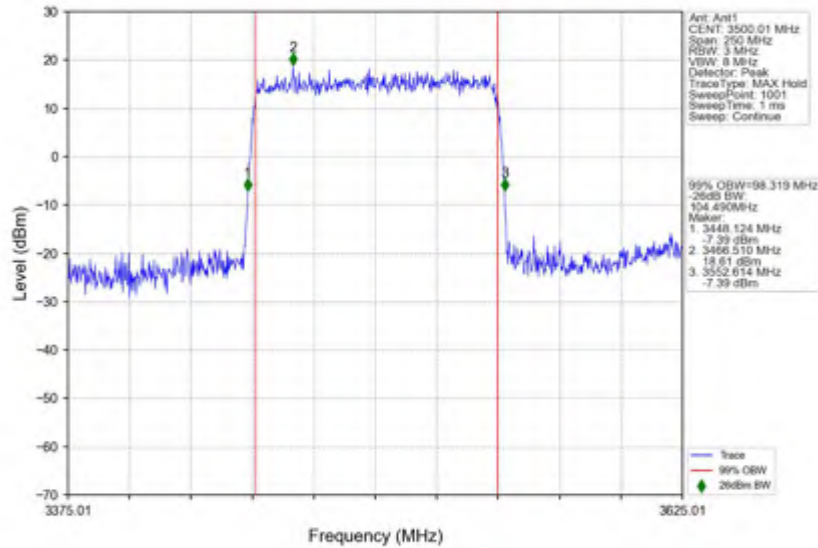
n78(3450-3550MHz) 30kHz SISO NTV 100MHz CP-OFDM QPSK 3500.01MHz Outer Full



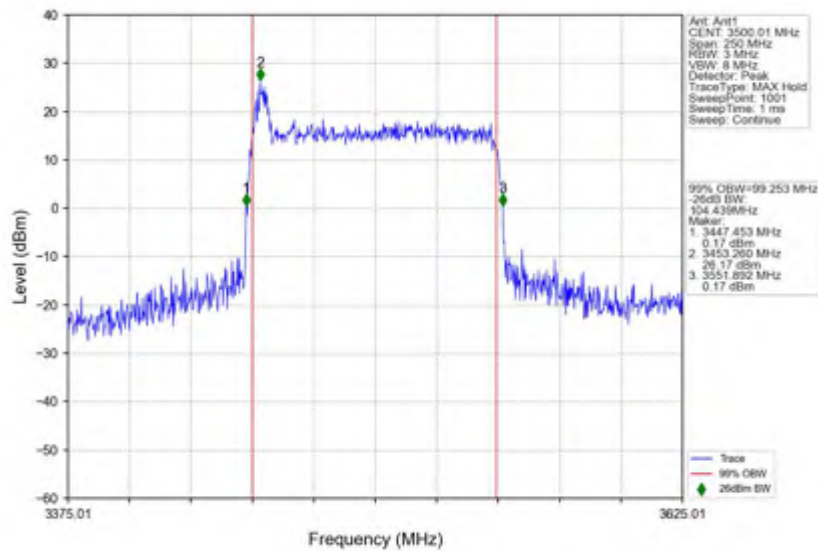
n78(3450-3550MHz) 30kHz SISO NTV 100MHz CP-OFDM QPSK 3499.98MHz Outer Full



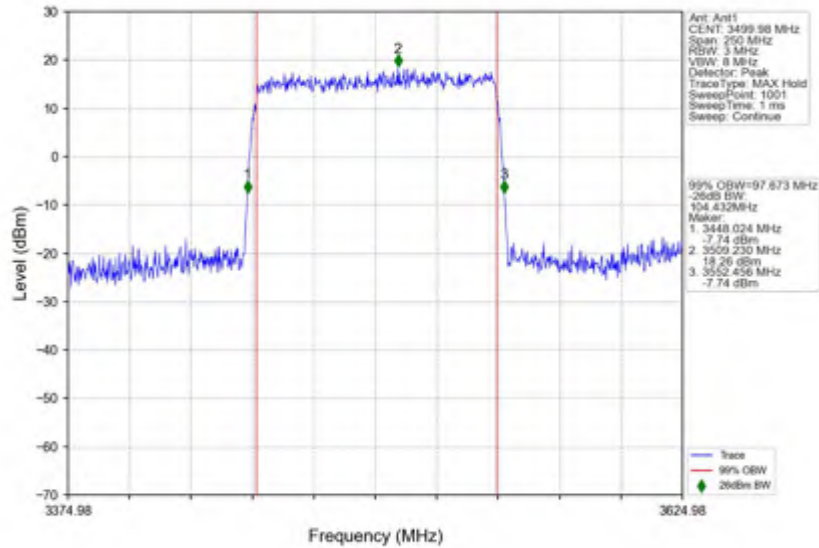
n78(3450-3550MHz) 30kHz SISO NTN 100MHz CP-OFDM 16 QAM 3500.01MHz Outer Full



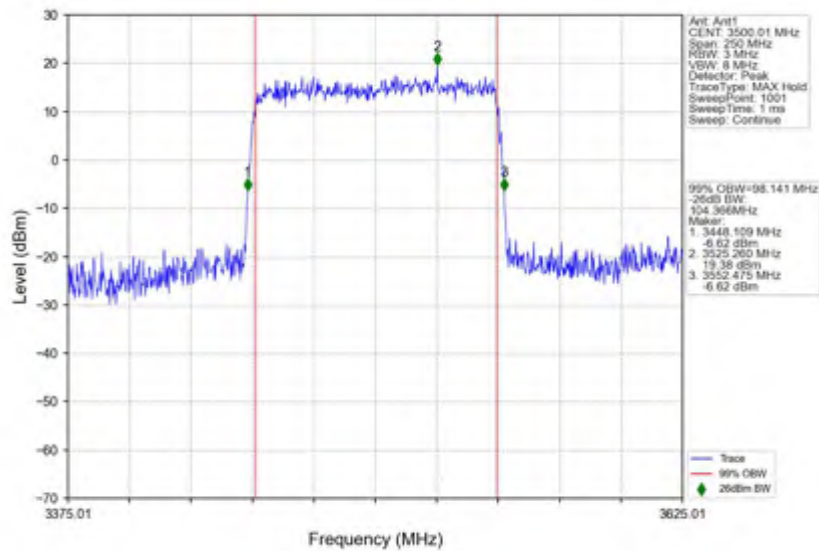
n78(3450-3550MHz) 30kHz SISO NTN 100MHz CP-OFDM 16 QAM 3500.01MHz Outer Full



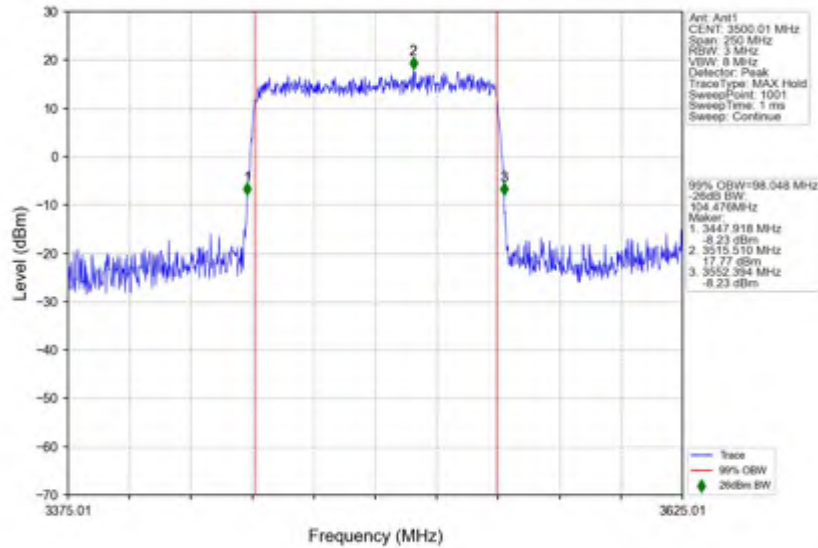
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM\_16 QAM\_3499.98MHz\_Outer\_Full



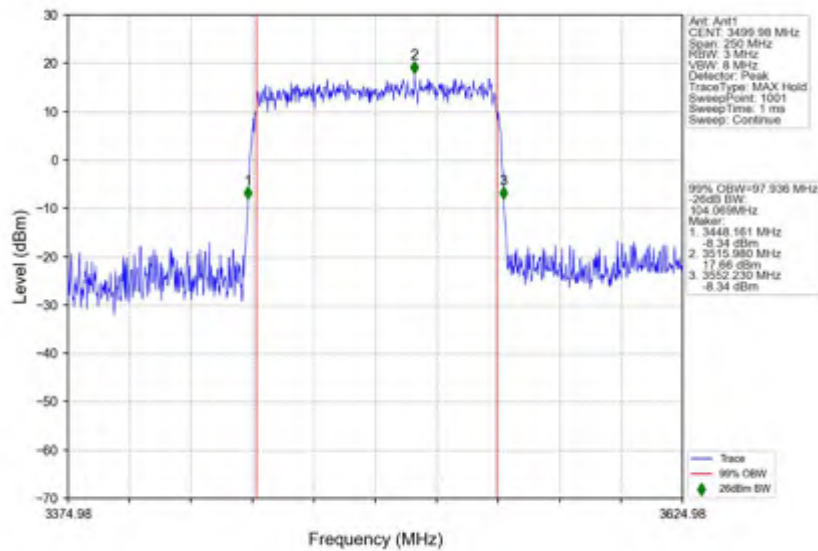
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM\_64 QAM\_3500.01MHz\_Outer\_Full



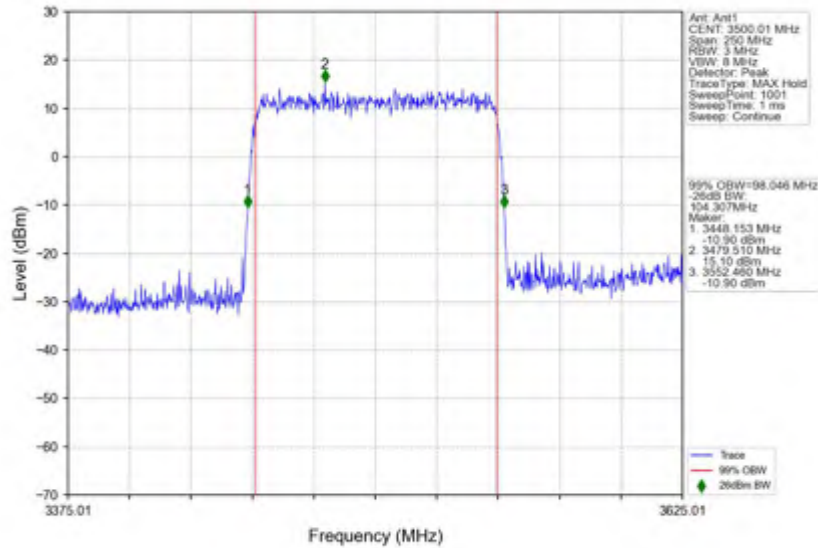
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM 64 QAM\_3500.01MHz\_Outer\_Full



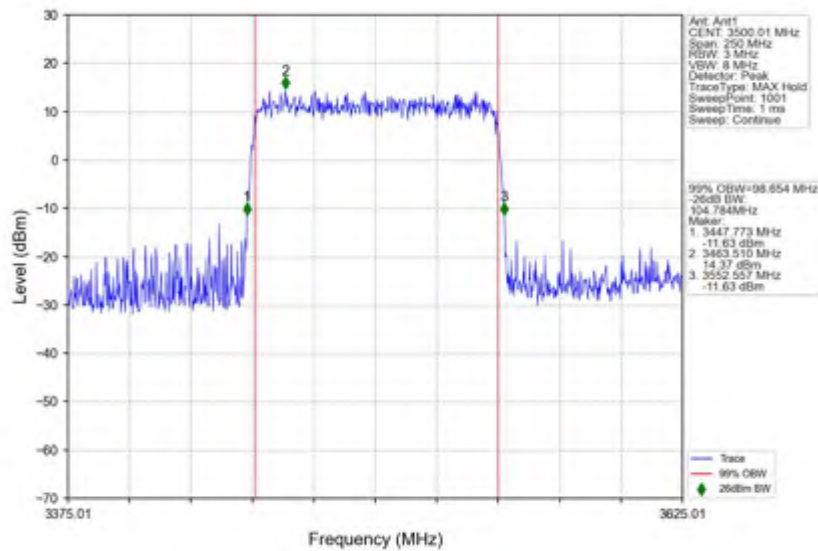
n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM 64 QAM\_3499.98MHz\_Outer\_Full



n78(3450-3550MHz) 30kHz SISO NTN 100MHz CP-OFDM 256 QAM 3500.01MHz Outer Full

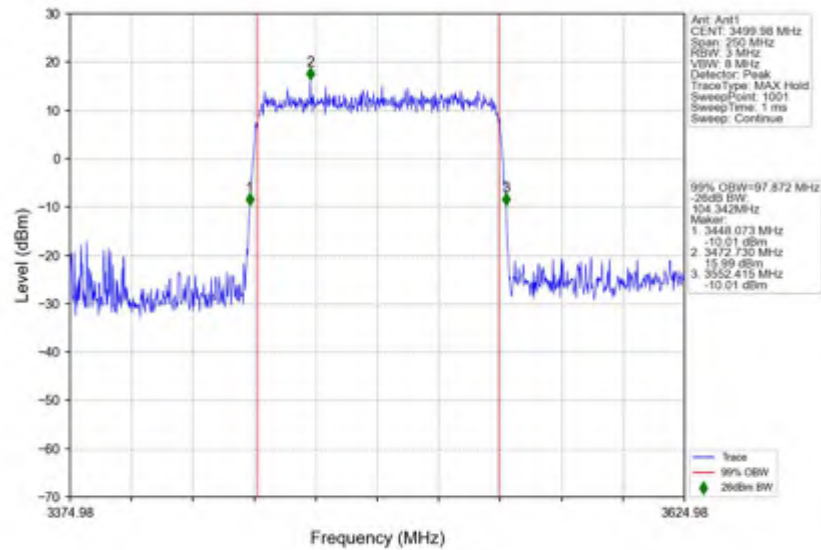


n78(3450-3550MHz) 30kHz SISO NTN 100MHz CP-OFDM 256 QAM 3500.01MHz Outer Full





n78(3450-3550MHz) 30kHz SISO NTN 100MHz CP-OFDM 256 QAM 3499.98MHz Outer Full





#### 4. Peak-Average Ratio

##### 4.1 30k\_SISO\_20MHz\_NTNV

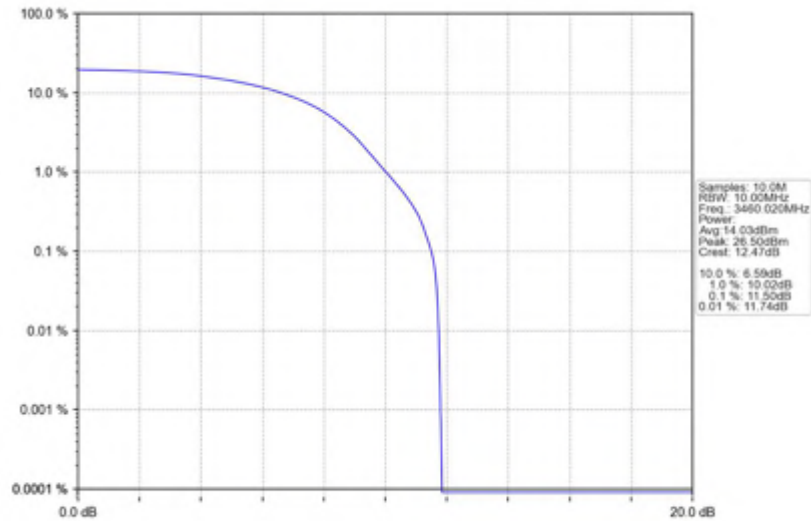
###### 4.1.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 20MHz NTN |                 |               |                         |      |     |       |         |
|--------------------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                                  |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                             | 3460.02         | Outer_Full    | 11.50                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer_Full    | 11.64                   | /    | /   | <=13  | Pass    |
|                                                  | 3540            | Outer_Full    | 11.09                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                                  | 3460.02         | Outer_Full    | 12.14                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer_Full    | 12.18                   | /    | /   | <=13  | Pass    |
|                                                  | 3540            | Outer_Full    | 12.09                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                                | 3460.02         | Outer_Full    | 12.93                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer_Full    | 12.99                   | /    | /   | <=13  | Pass    |
|                                                  | 3540            | Outer_Full    | 10.36                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                                | 3460.02         | Outer_Full    | 10.72                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer_Full    | 10.88                   | /    | /   | <=13  | Pass    |
|                                                  | 3540            | Outer_Full    | 10.37                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                               | 3460.02         | Outer_Full    | 10.61                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer_Full    | 10.42                   | /    | /   | <=13  | Pass    |
|                                                  | 3540            | Outer_Full    | 10.62                   | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                                     | 3460.02         | Outer_Full    | 11.68                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer_Full    | 11.71                   | /    | /   | <=13  | Pass    |
|                                                  | 3540            | Outer_Full    | 11.76                   | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                                   | 3460.02         | Outer_Full    | 11.64                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer_Full    | 11.65                   | /    | /   | <=13  | Pass    |
|                                                  | 3540            | Outer_Full    | 11.61                   | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                                   | 3460.02         | Outer_Full    | 11.50                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer_Full    | 11.74                   | /    | /   | <=13  | Pass    |
|                                                  | 3540            | Outer_Full    | 11.58                   | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                                  | 3460.02         | Outer_Full    | 11.78                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer_Full    | 11.70                   | /    | /   | <=13  | Pass    |
|                                                  | 3540            | Outer_Full    | 11.94                   | /    | /   | <=13  | Pass    |

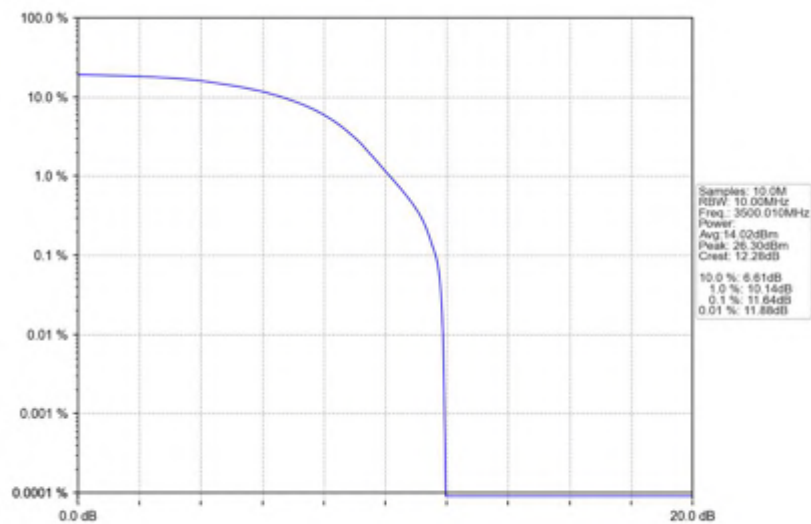


#### 4.1.2 Test Graph

n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3460.02MHz\_Outer\_Full

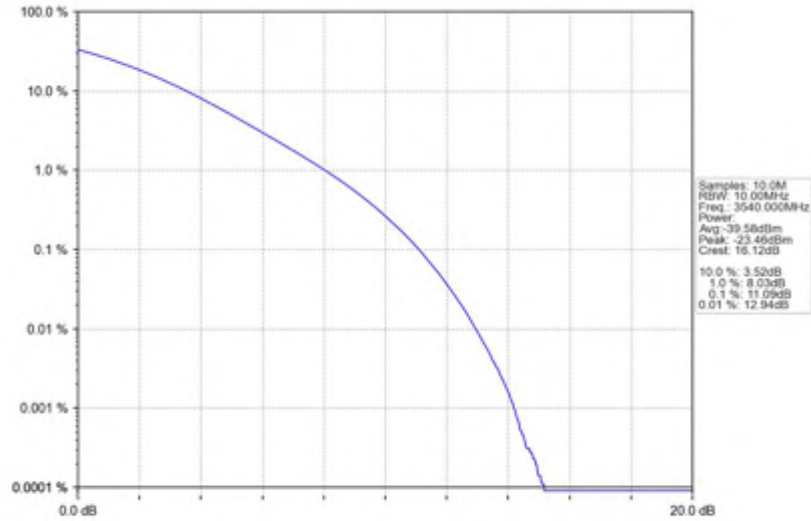


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3500.01MHz\_Outer\_Full

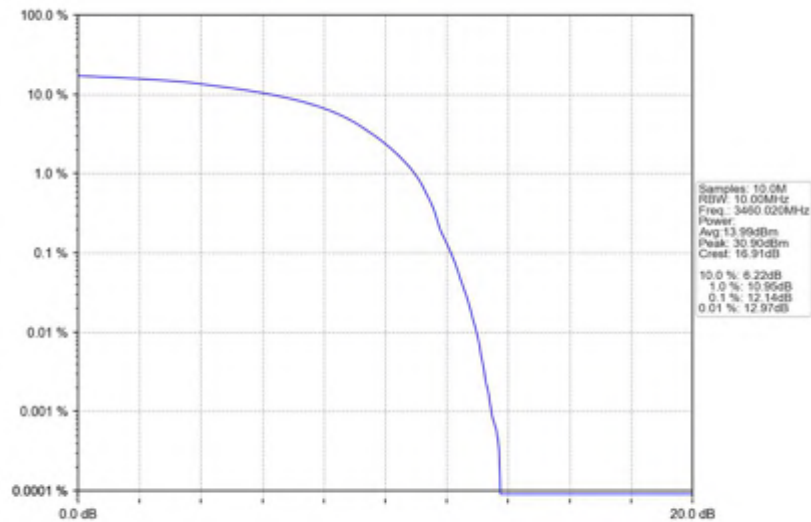




n78(3450-3550MHz) 30kHz SISO NTN 20MHz DFT-s-OFDM PI/2 BPSK 3540MHz Outer Full

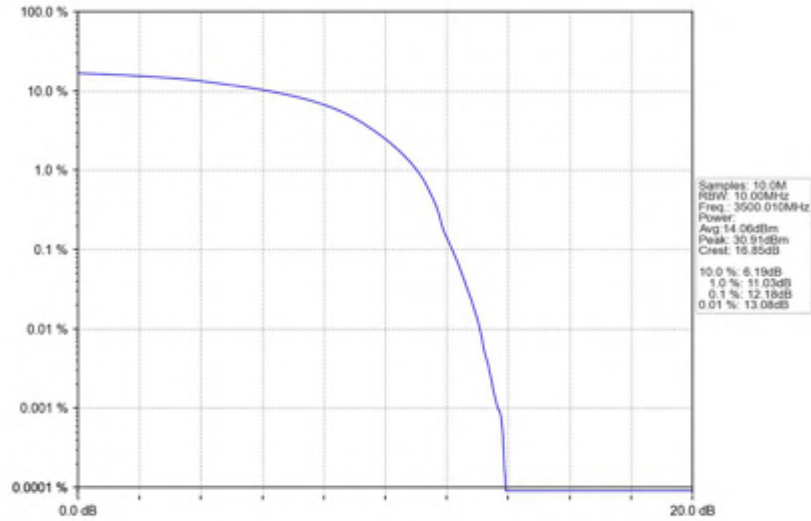


n78(3450-3550MHz) 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3460.02MHz Outer Full

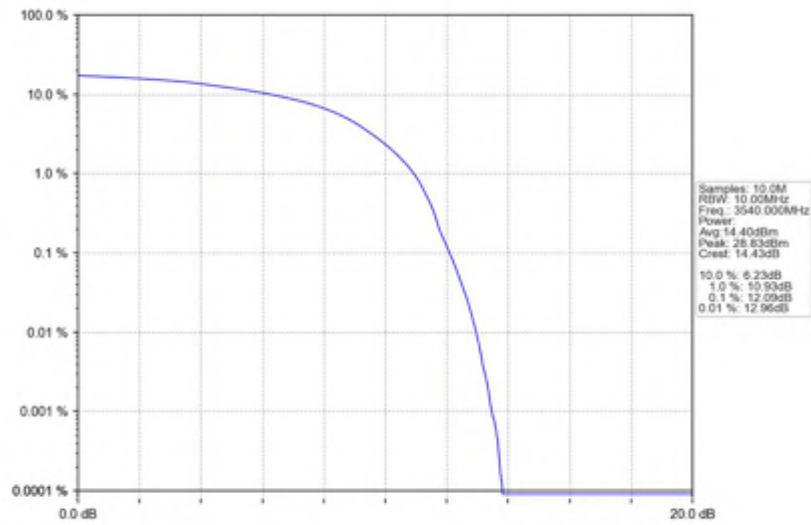




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_QPSK\_3500.01MHz\_Outer\_Full

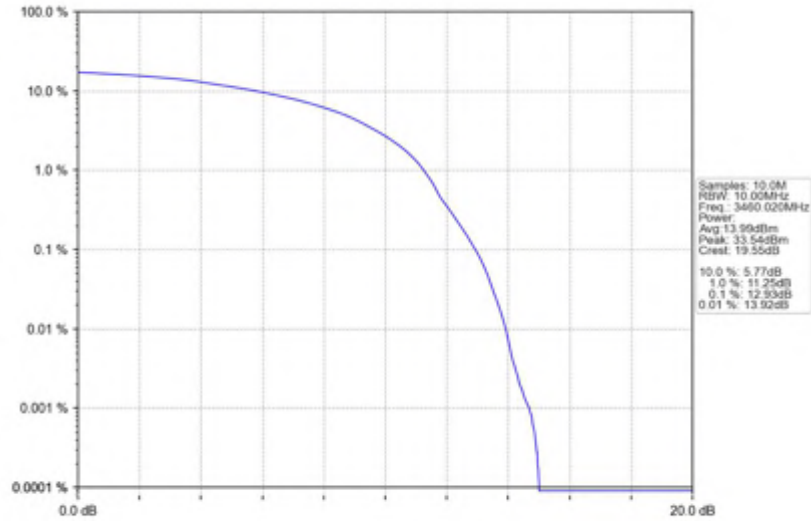


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_QPSK\_3540MHz\_Outer\_Full

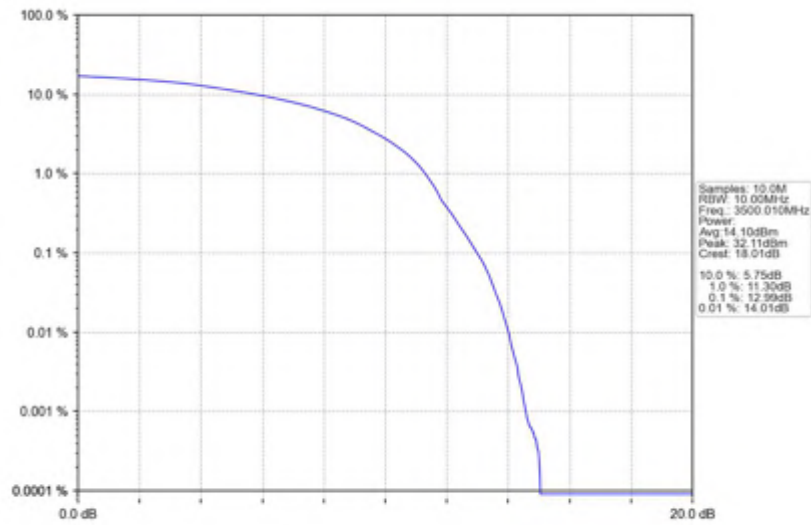




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_16\_QAM\_3460.02MHz\_Outer\_Full

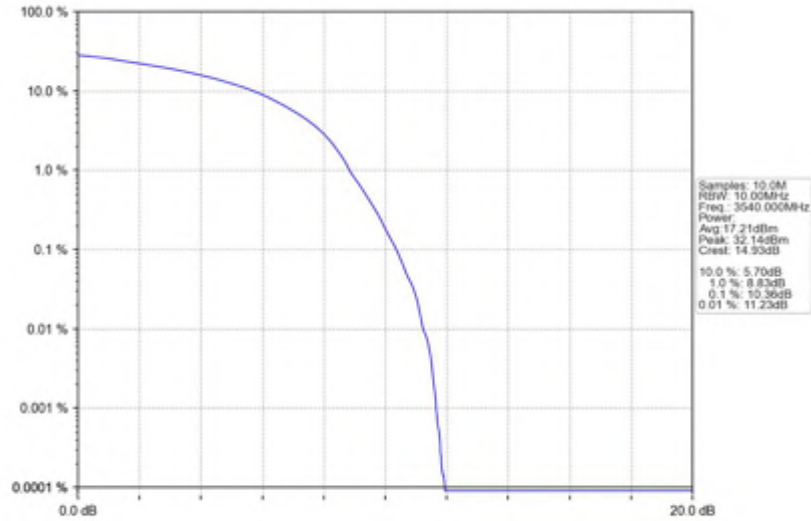


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full

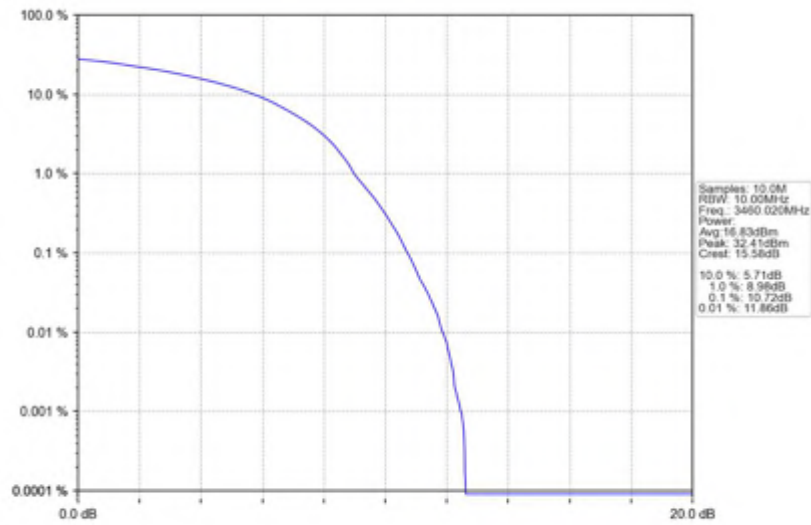




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_16\_QAM\_3540MHz\_Outer\_Full

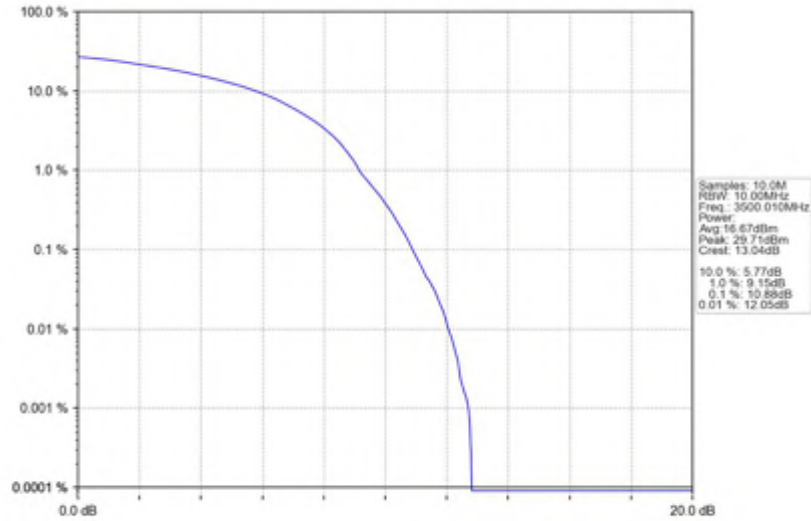


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_64\_QAM\_3460.02MHz\_Outer\_Full

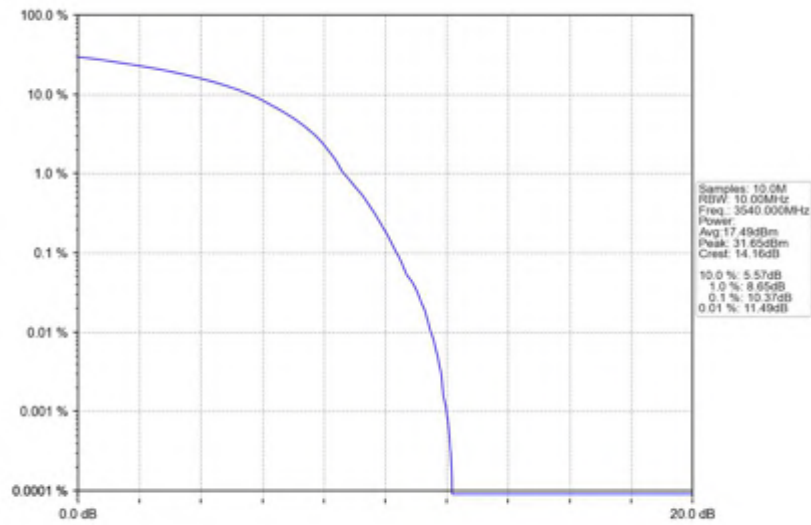




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_64\_QAM\_3500.01MHz\_Outer\_Full

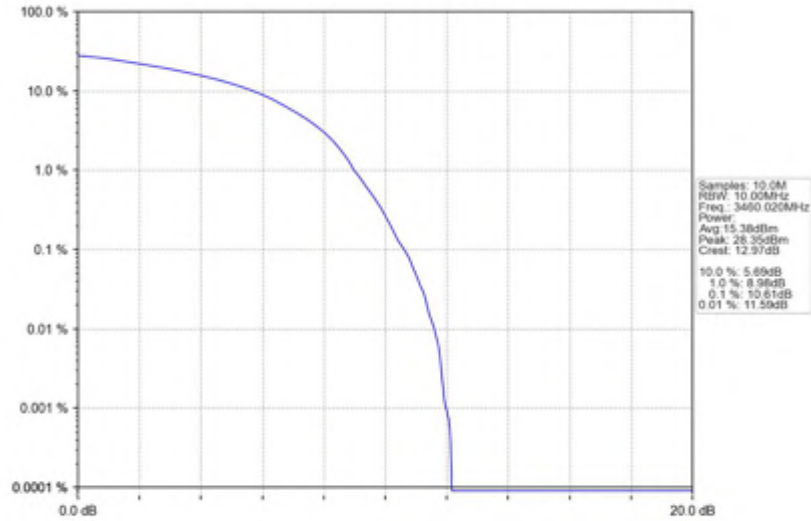


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_64\_QAM\_3540MHz\_Outer\_Full

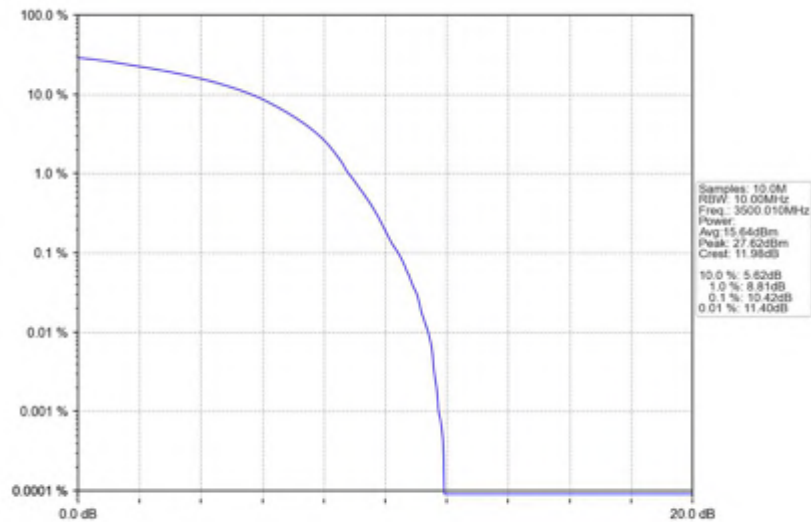




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_256\_QAM\_3460.02MHz\_Outer\_Full

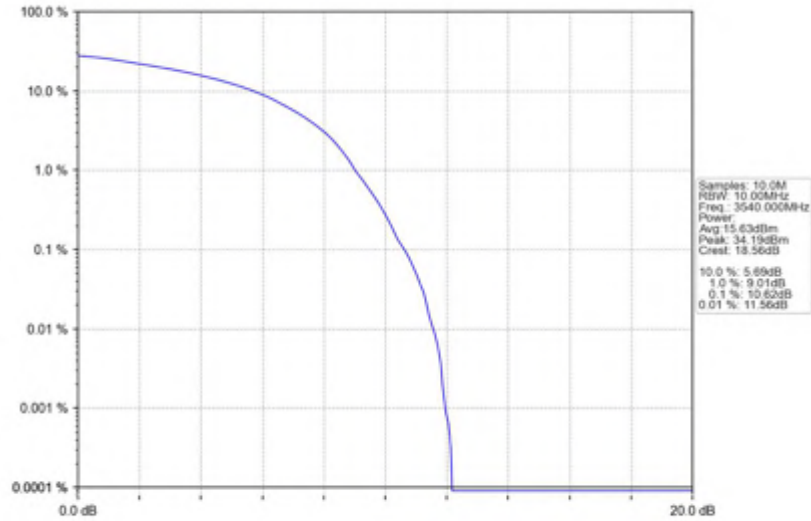


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full

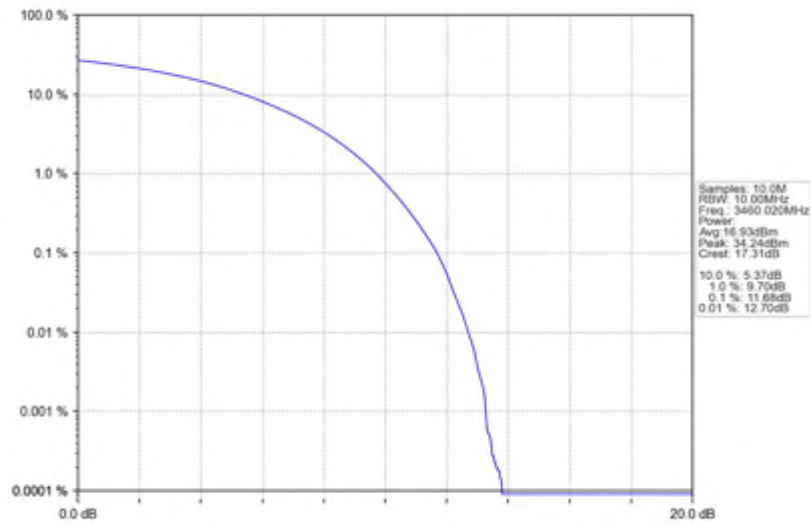




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_256\_QAM\_3540MHz\_Outer\_Full

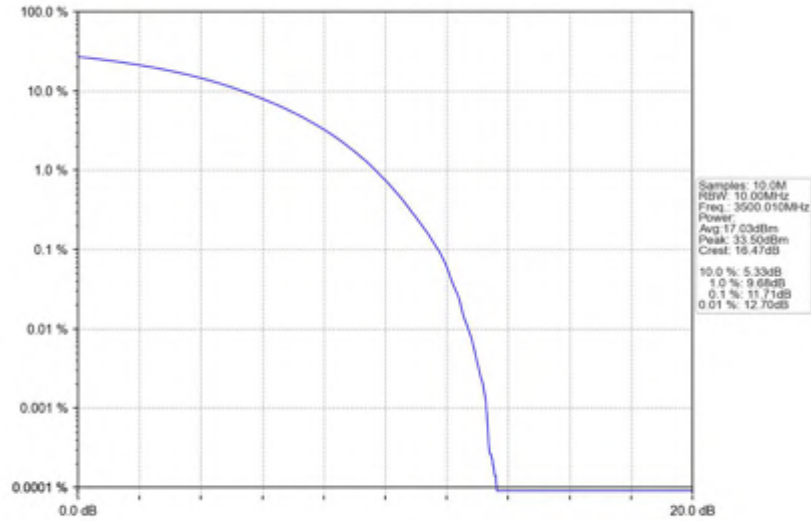


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_QPSK\_3460.02MHz\_Outer\_Full

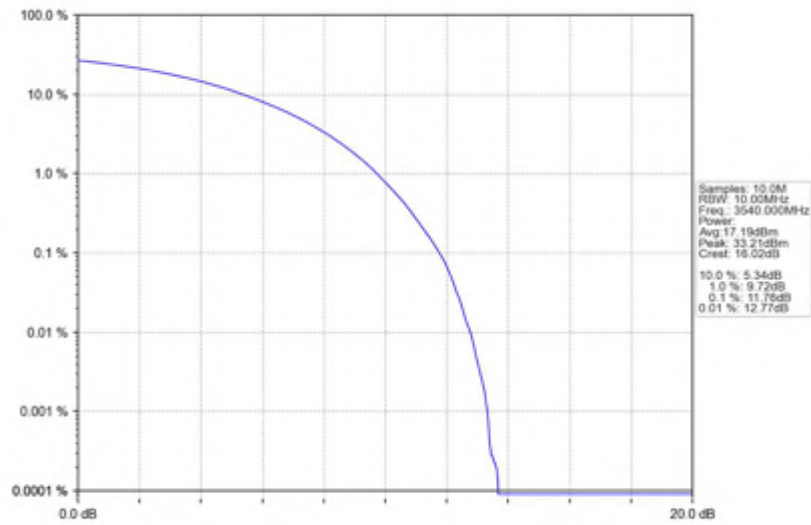




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_QPSK\_3500.01MHz\_Outer\_Full

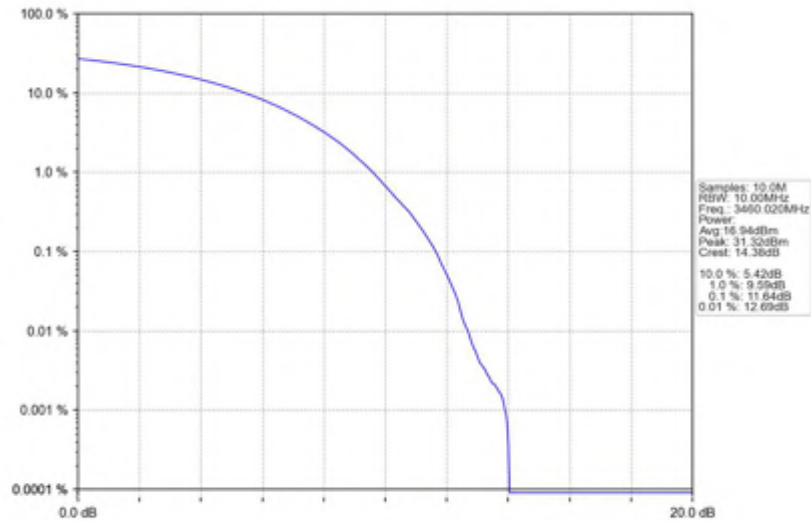


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_QPSK\_3540MHz\_Outer\_Full

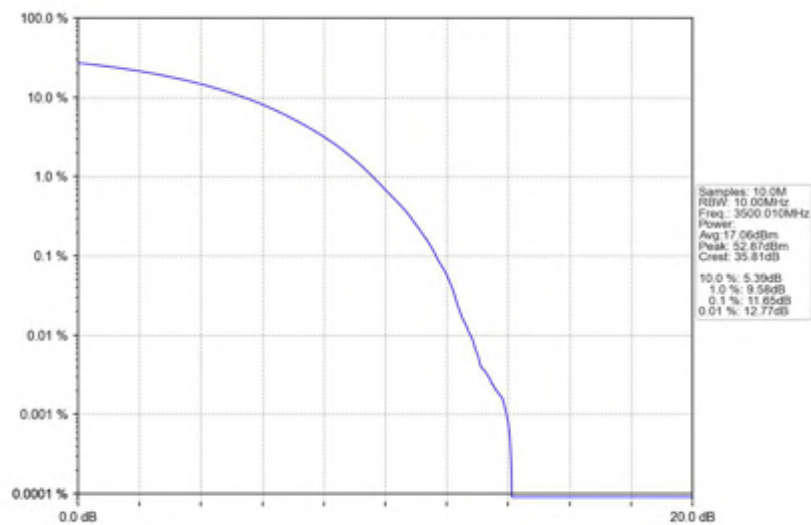




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_16\_QAM\_3460.02MHz\_Outer\_Full

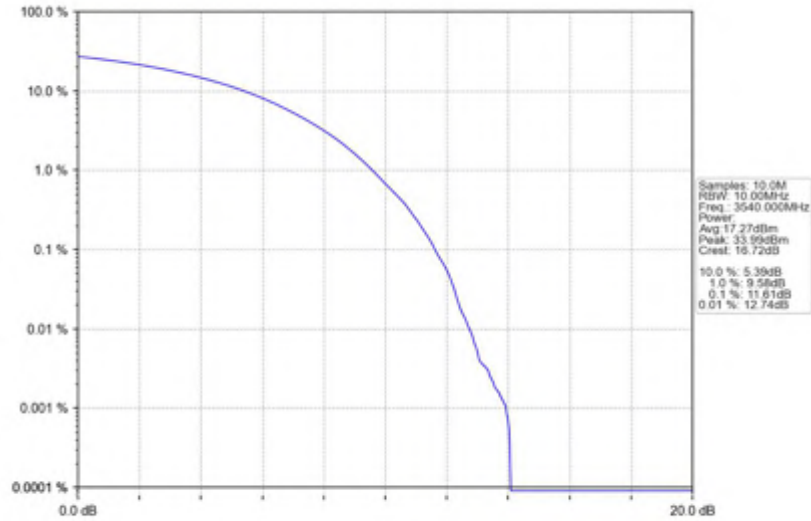


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full

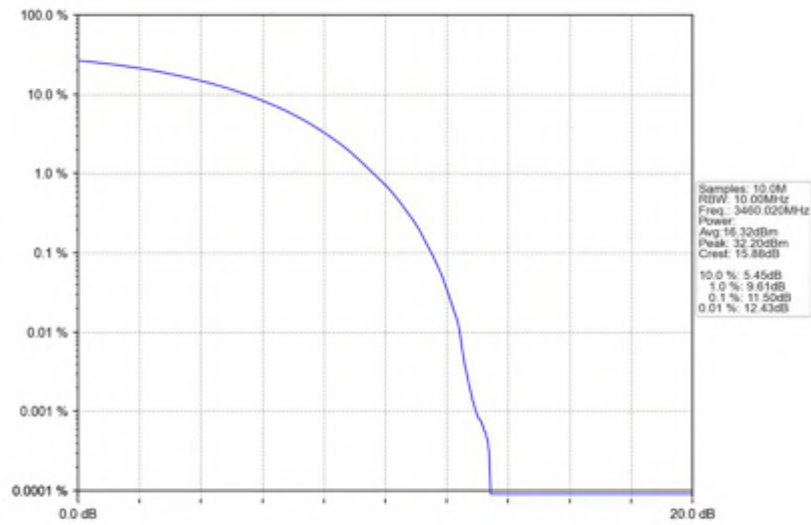




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_16 QAM\_3540MHz\_Outer\_Full

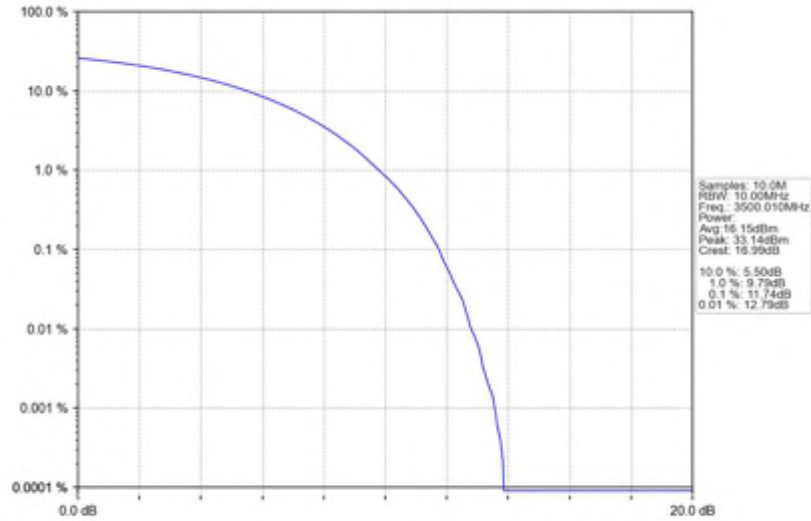


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_64 QAM\_3460.02MHz\_Outer\_Full

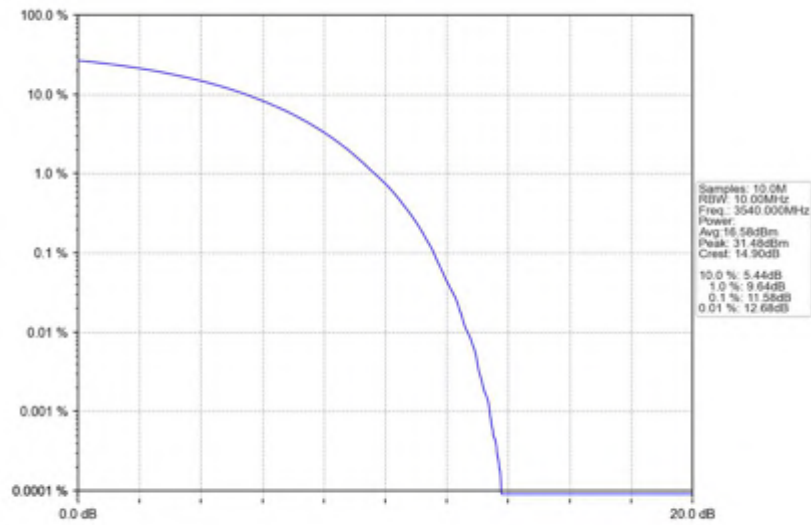




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_3500.01MHz\_Outer\_Full

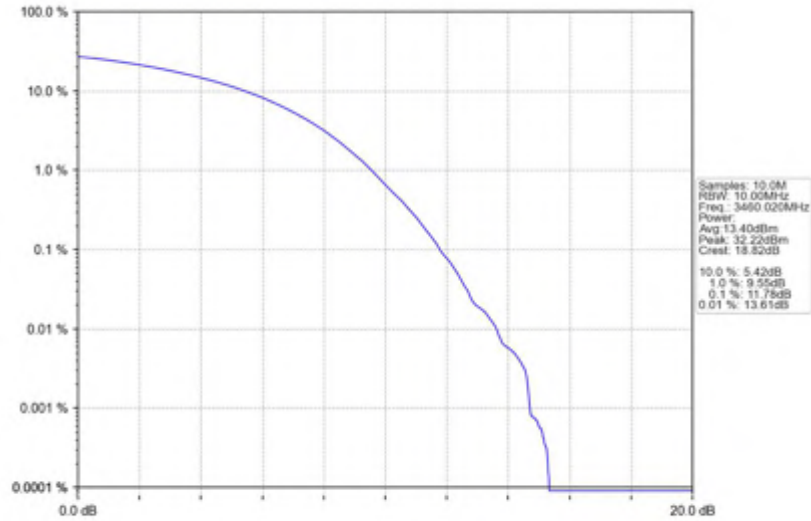


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_3540MHz\_Outer\_Full

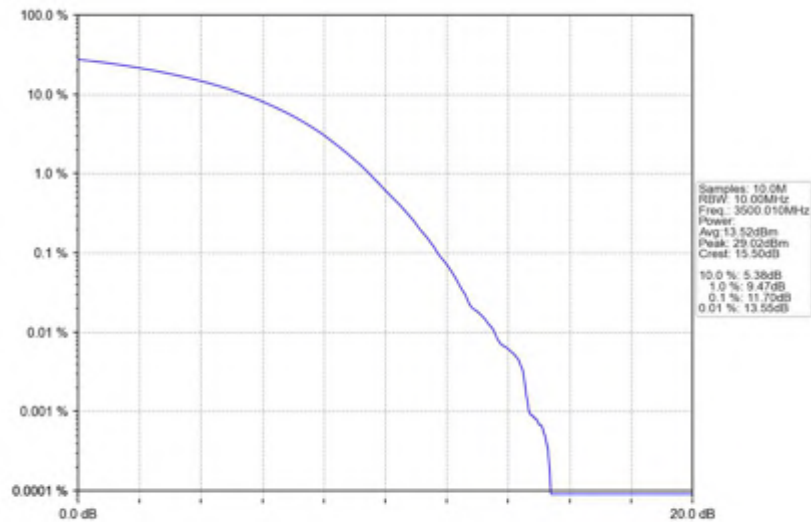




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_256\_QAM\_3460.02MHz\_Outer\_Full

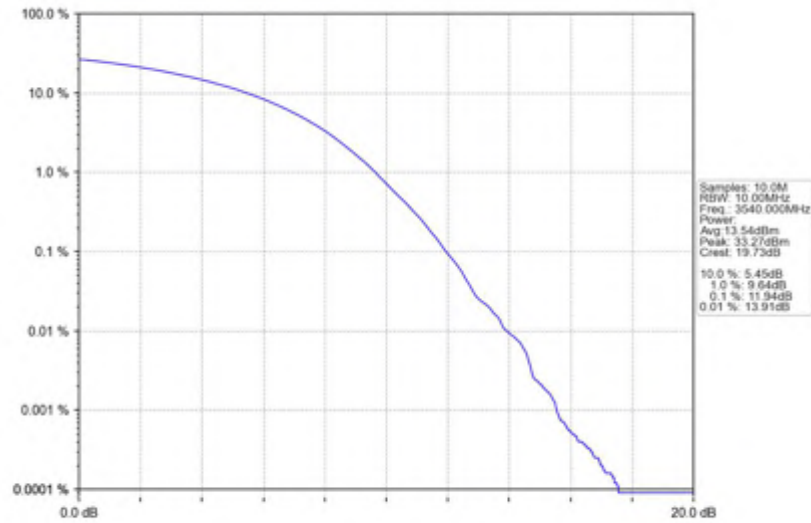


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full





n78(3450-3550MHz) 30kHz SISO NTN 20MHz CP-OFDM 256 QAM 3540MHz Outer Full





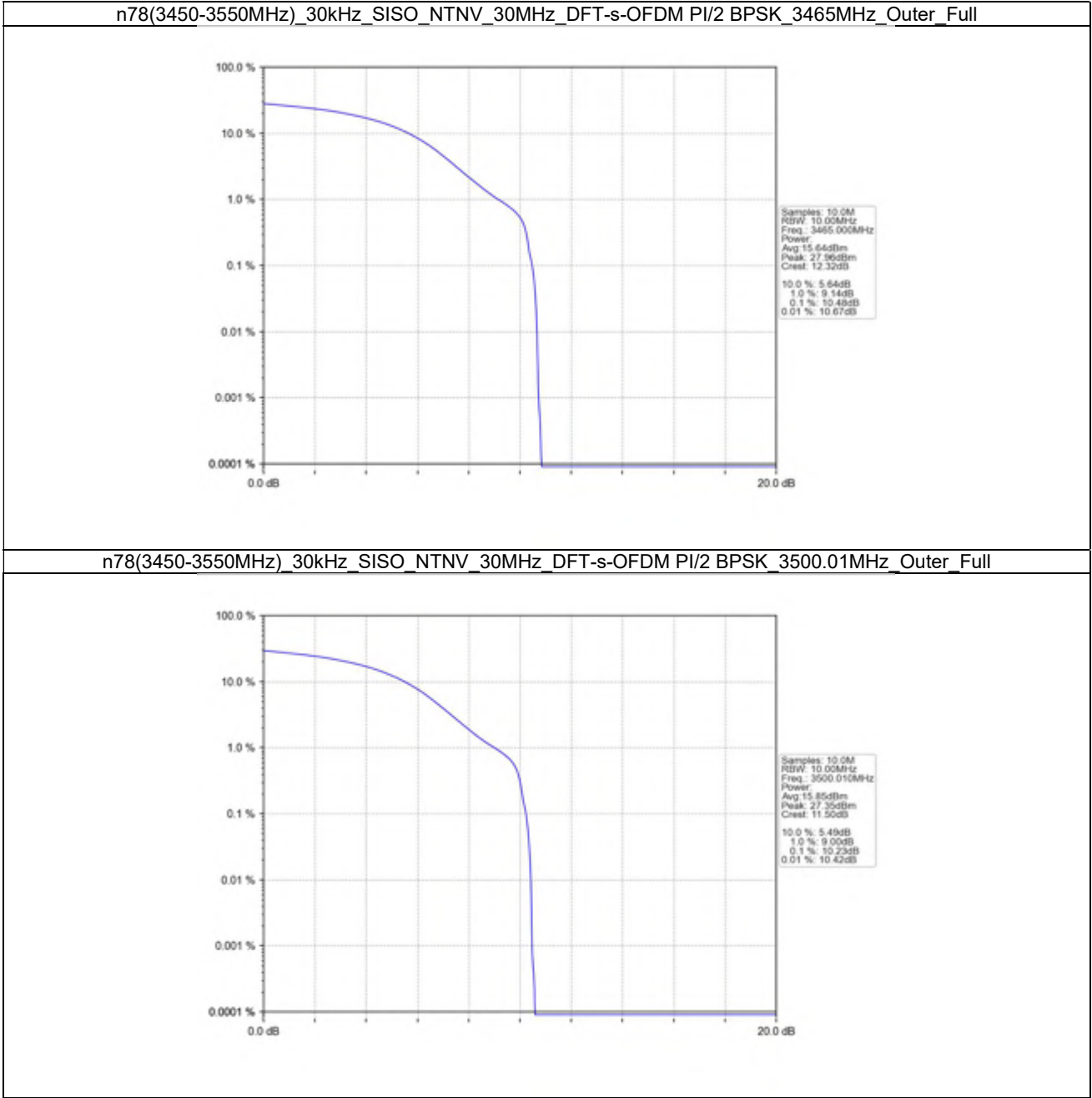
## 4.2 30k\_SISO\_30MHz\_NTNV

### 4.2.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 30MHz NTN |                 |               |                         |      |     |       |         |
|--------------------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                                  |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                             | 3465            | Outer Full    | 10.48                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer Full    | 10.23                   | /    | /   | <=13  | Pass    |
|                                                  | 3534.99         | Outer Full    | 10.47                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                                  | 3465            | Outer Full    | 10.54                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer Full    | 10.66                   | /    | /   | <=13  | Pass    |
|                                                  | 3534.99         | Outer Full    | 10.53                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                                | 3465            | Outer Full    | 10.81                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer Full    | 10.83                   | /    | /   | <=13  | Pass    |
|                                                  | 3534.99         | Outer Full    | 10.93                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                                | 3465            | Outer Full    | 10.79                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer Full    | 10.84                   | /    | /   | <=13  | Pass    |
|                                                  | 3534.99         | Outer Full    | 10.84                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                               | 3465            | Outer Full    | 11.15                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer Full    | 11.07                   | /    | /   | <=13  | Pass    |
|                                                  | 3534.99         | Outer Full    | 10.78                   | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                                     | 3465            | Outer Full    | 11.74                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer Full    | 11.85                   | /    | /   | <=13  | Pass    |
|                                                  | 3534.99         | Outer Full    | 11.71                   | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                                   | 3465            | Outer Full    | 11.54                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer Full    | 11.84                   | /    | /   | <=13  | Pass    |
|                                                  | 3534.99         | Outer Full    | 11.72                   | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                                   | 3465            | Outer Full    | 11.64                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer Full    | 11.76                   | /    | /   | <=13  | Pass    |
|                                                  | 3534.99         | Outer Full    | 11.66                   | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                                  | 3465            | Outer Full    | 11.96                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer Full    | 11.73                   | /    | /   | <=13  | Pass    |
|                                                  | 3534.99         | Outer Full    | 11.74                   | /    | /   | <=13  | Pass    |

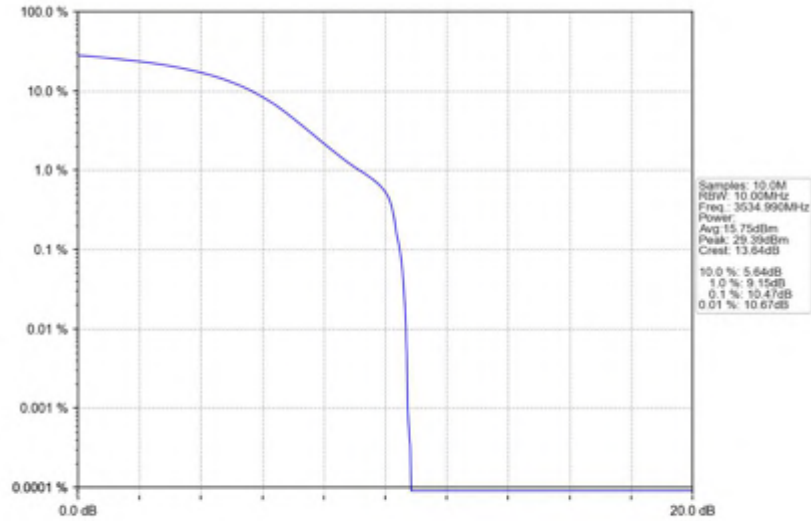


4.2.2 Test Graph

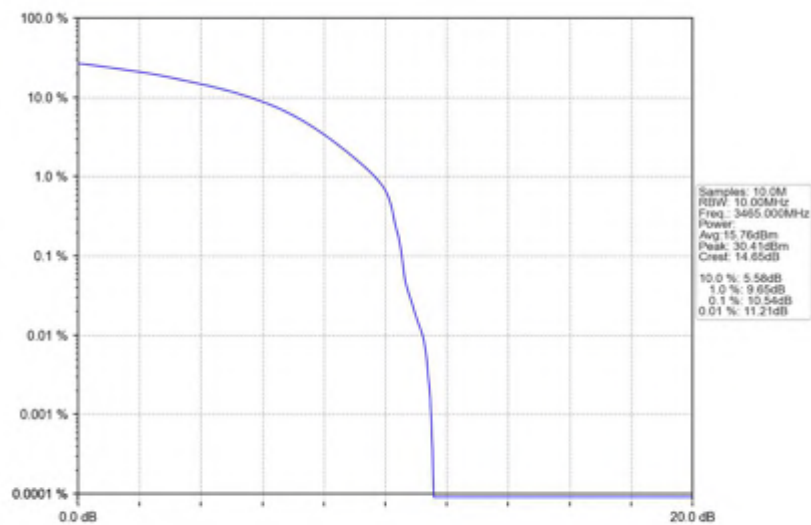




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_PI/2\_BPSK\_3534.99MHz\_Outer\_Full

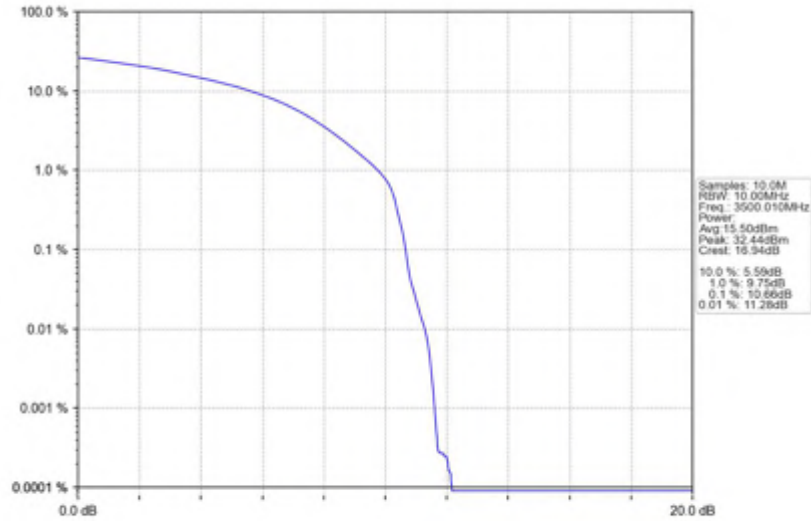


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_QPSK\_3465MHz\_Outer\_Full

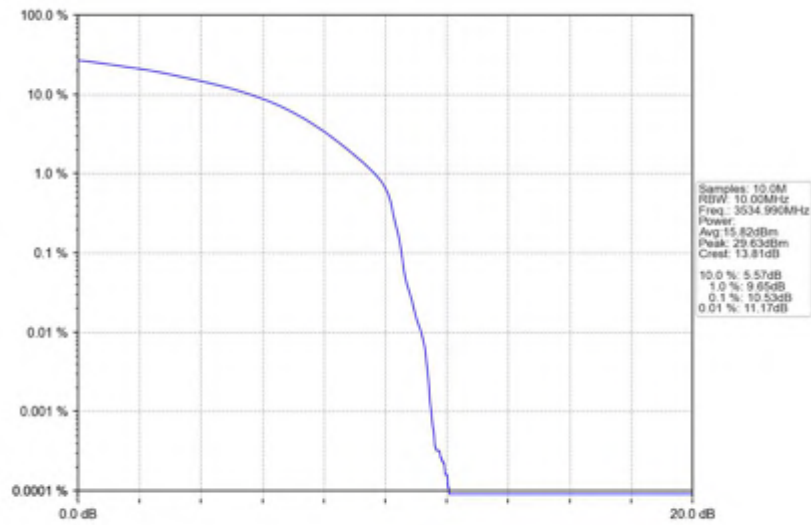




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_QPSK\_3500.01MHz\_Outer\_Full

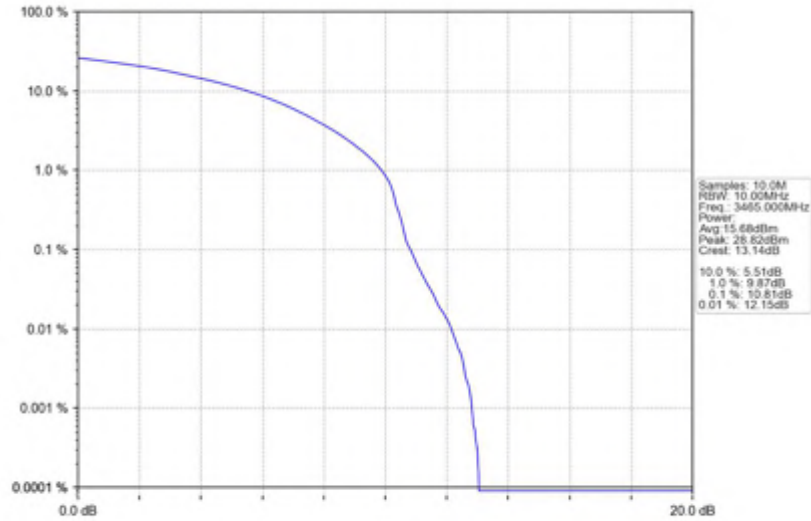


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_QPSK\_3534.99MHz\_Outer\_Full

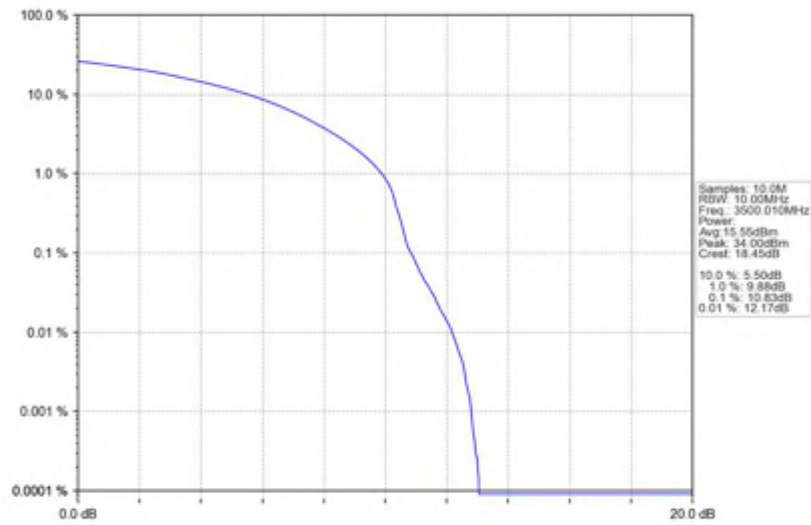




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_16\_QAM\_3465MHz\_Outer\_Full

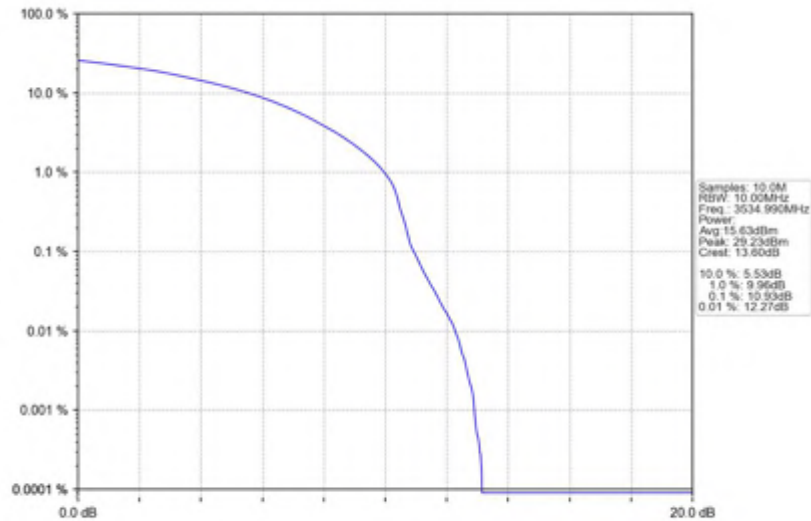


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full

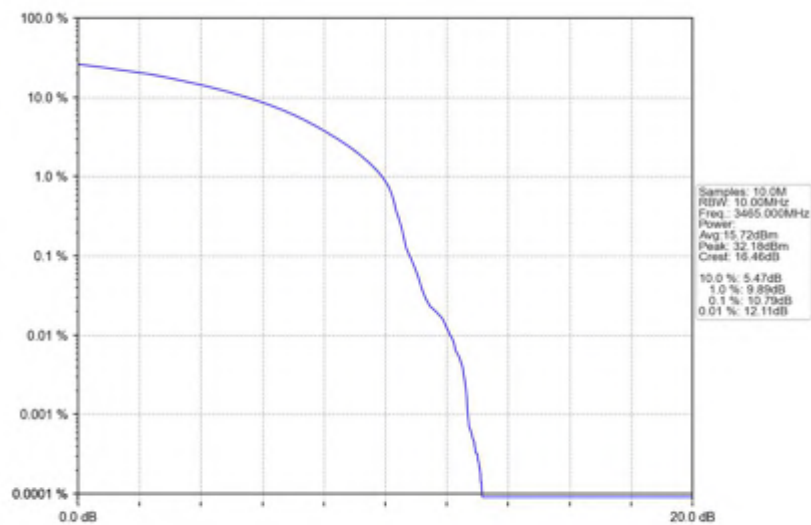




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_16\_QAM\_3534.99MHz\_Outer\_Full

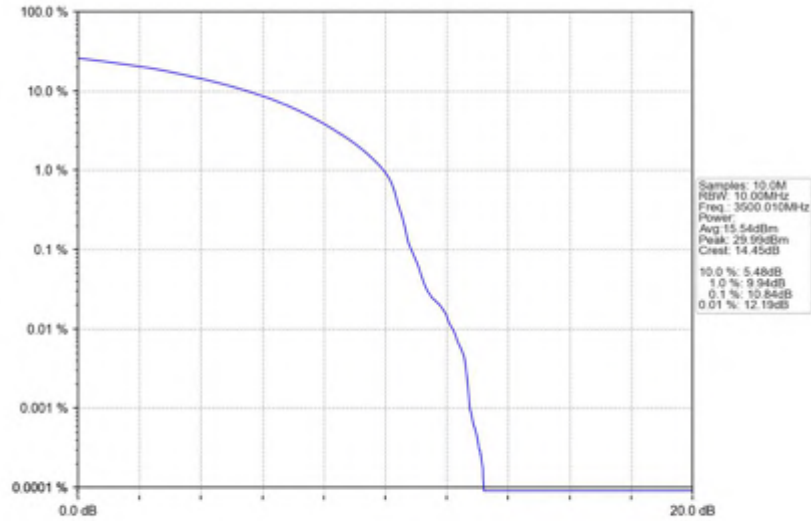


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_64\_QAM\_3465MHz\_Outer\_Full

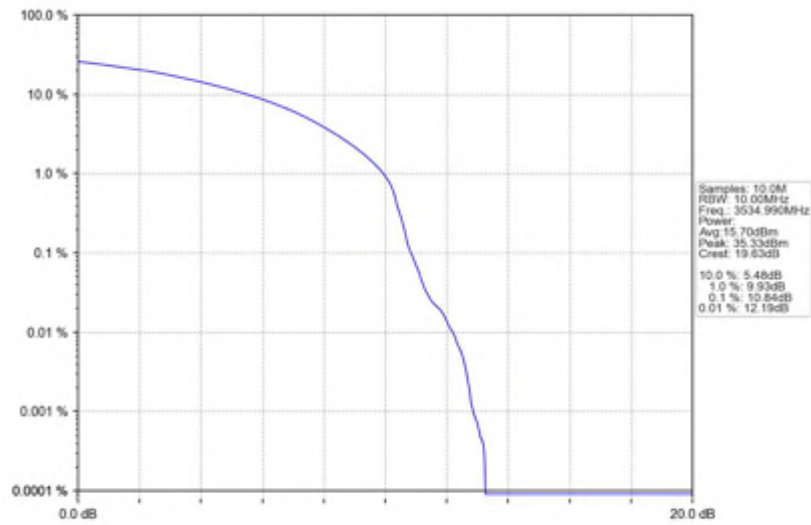




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_64\_QAM\_3500.01MHz\_Outer\_Full

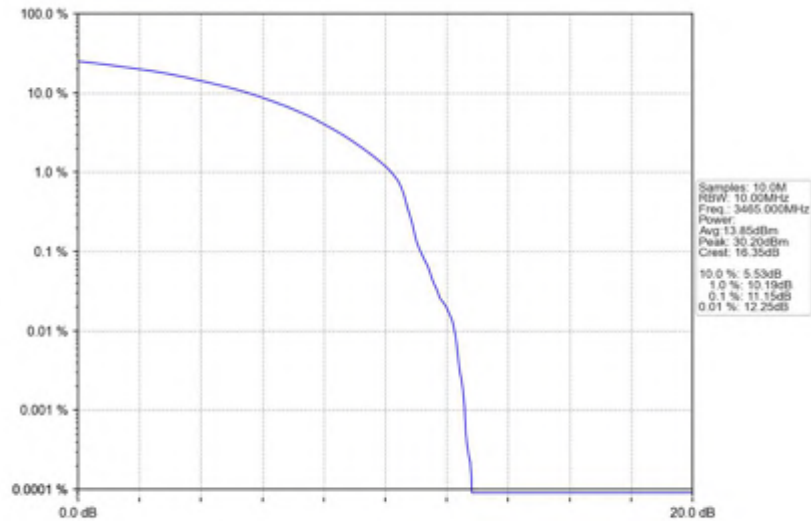


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_64\_QAM\_3534.99MHz\_Outer\_Full

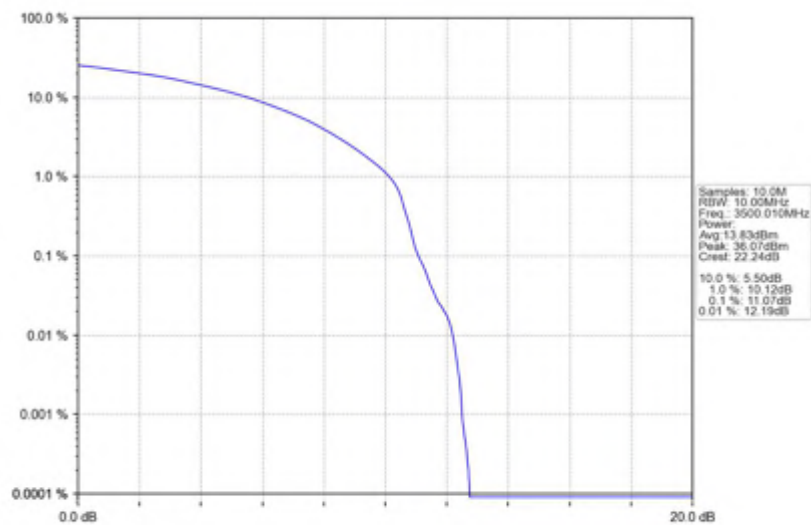




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_256\_QAM\_3465MHz\_Outer\_Full

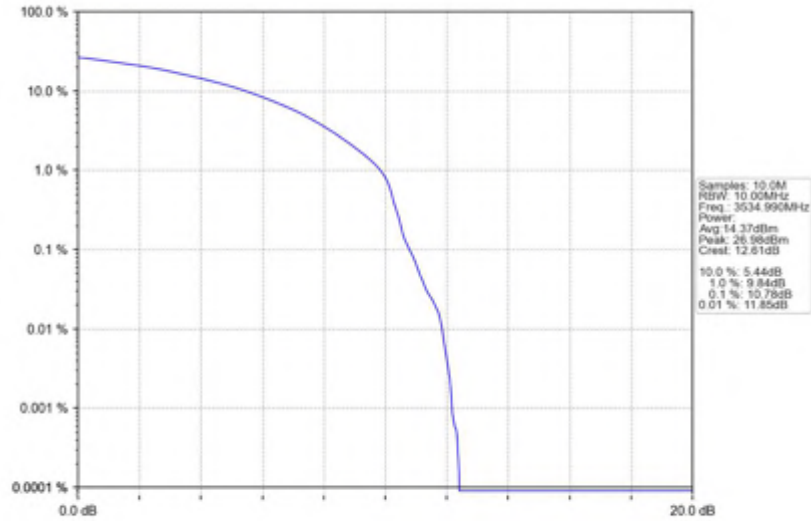


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full

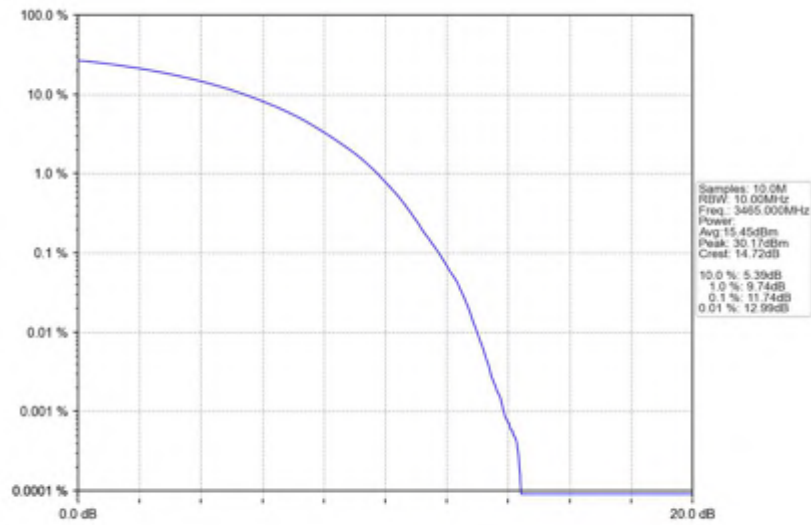




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_256\_QAM\_3534.99MHz\_Outer\_Full

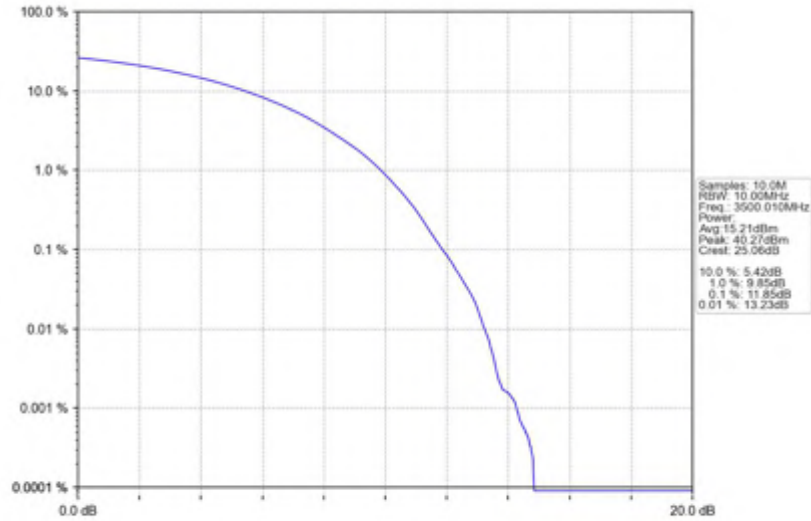


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_QPSK\_3465MHz\_Outer\_Full

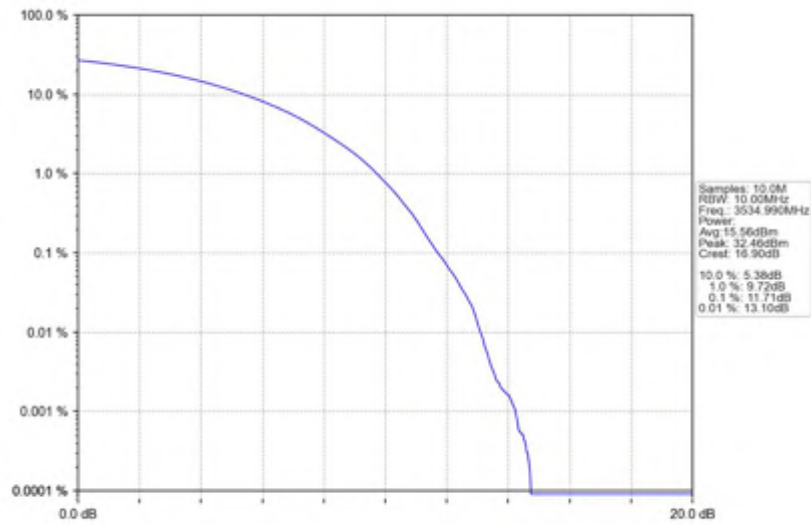




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_QPSK\_3500.01MHz\_Outer\_Full

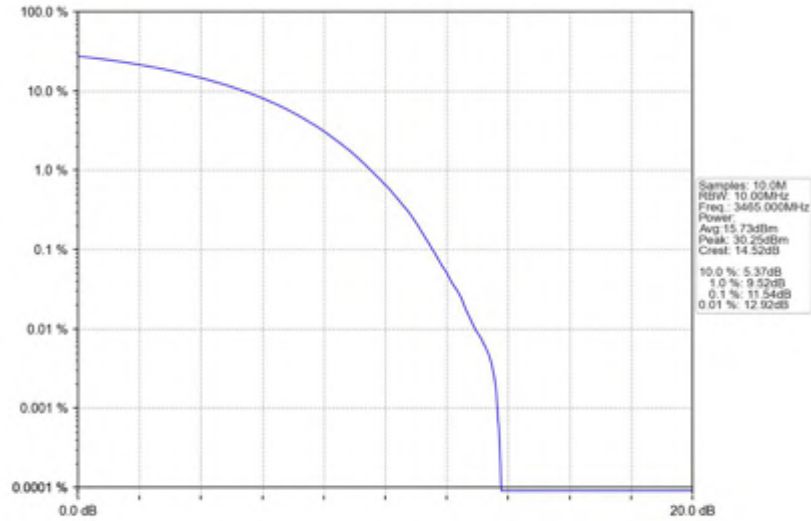


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_QPSK\_3534.99MHz\_Outer\_Full

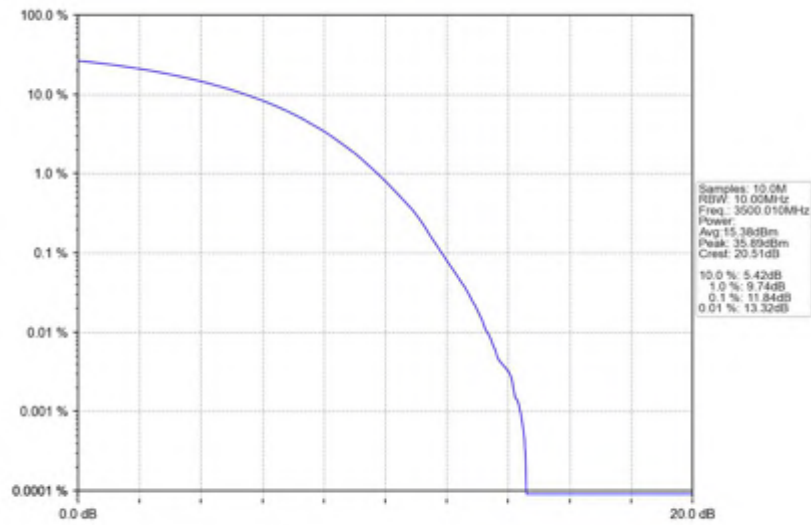




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_16\_QAM\_3465MHz\_Outer\_Full

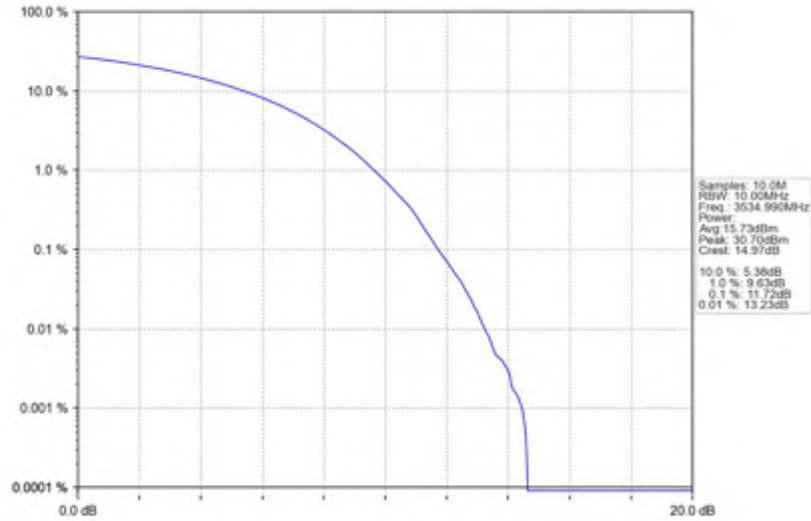


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full

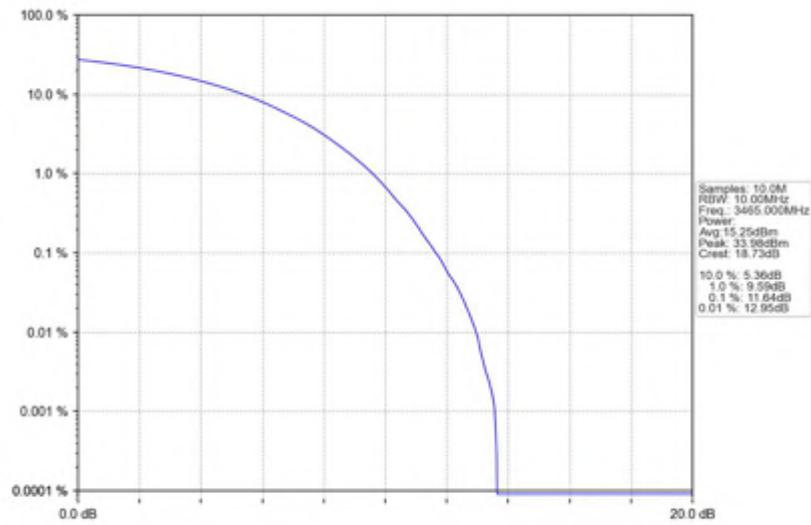




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_16\_QAM\_3534.99MHz\_Outer\_Full

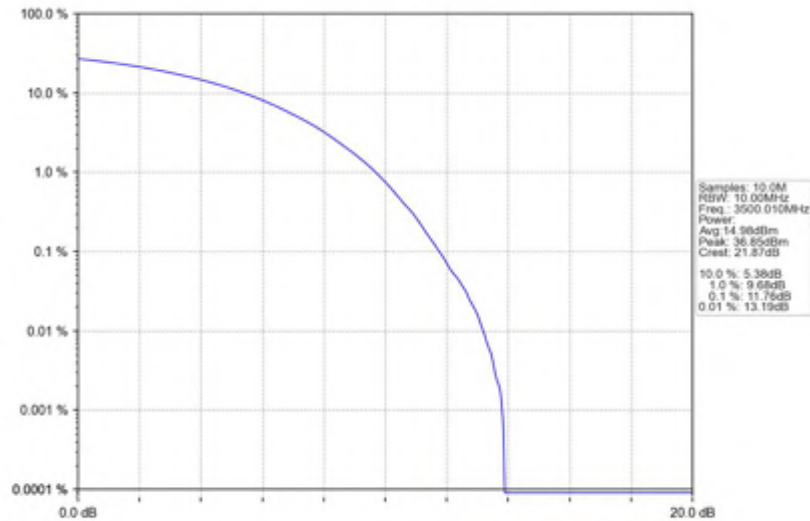


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_64\_QAM\_3465MHz\_Outer\_Full

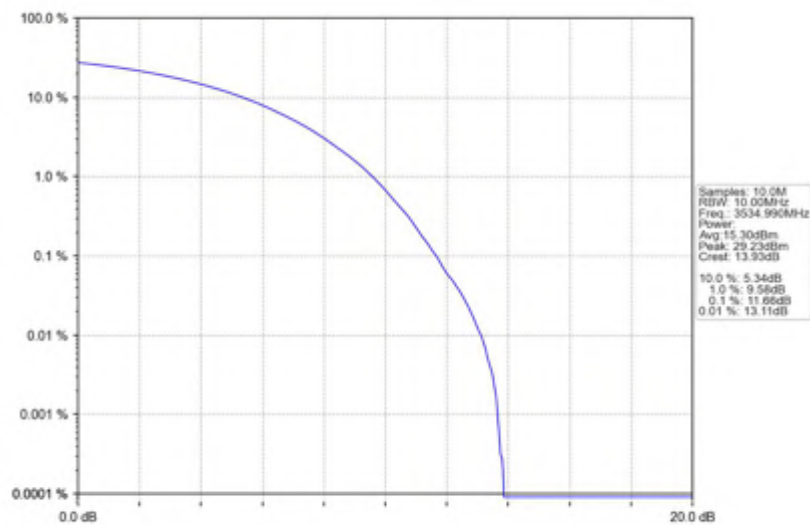




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_64\_QAM\_3500.01MHz\_Outer\_Full

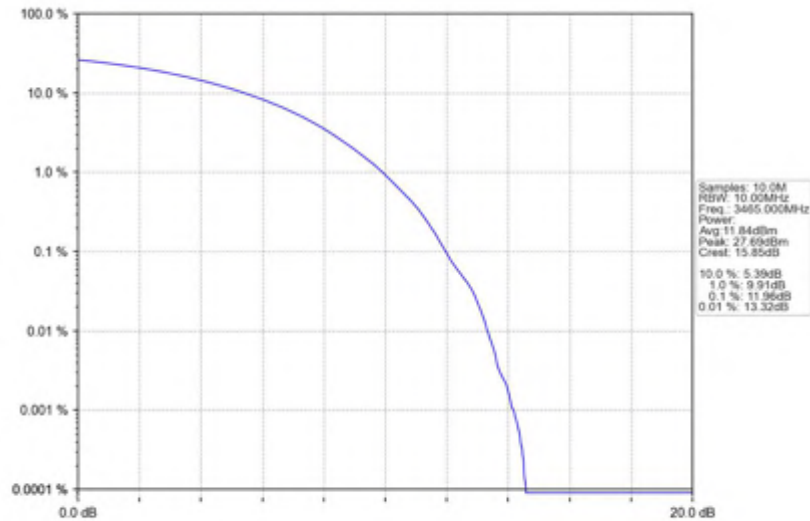


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_64\_QAM\_3534.99MHz\_Outer\_Full

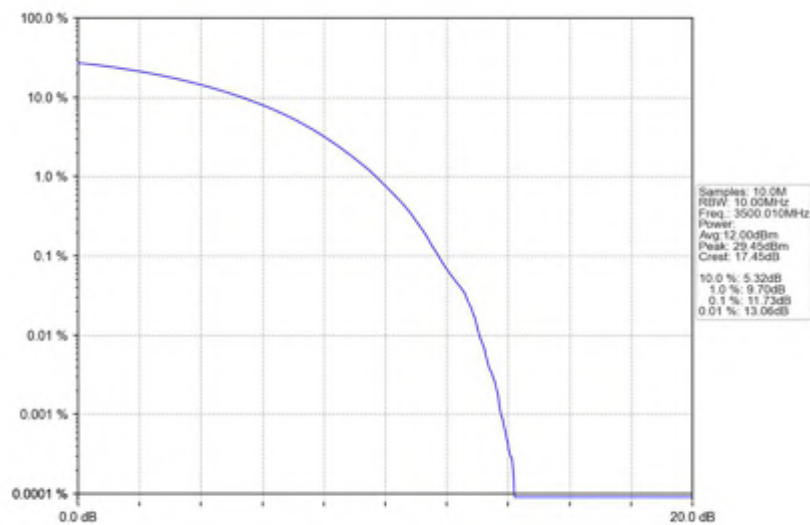




n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_256\_QAM\_3465MHz\_Outer\_Full

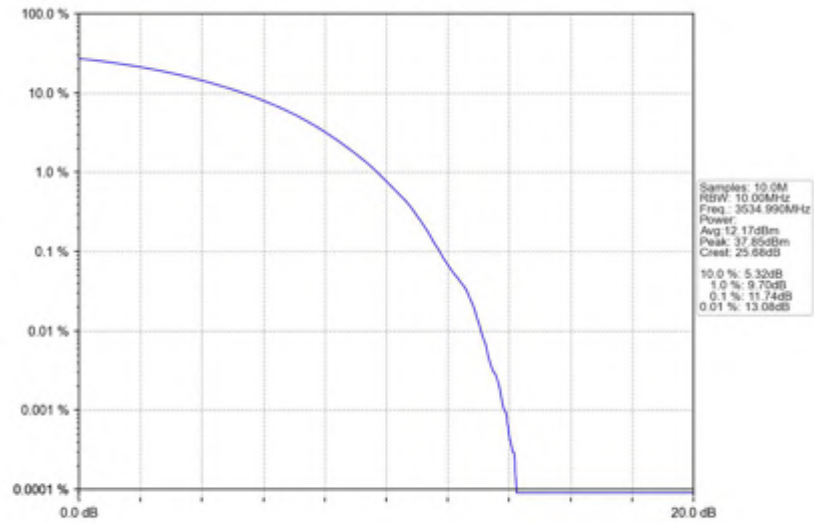


n78(3450-3550MHz)\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full





n78(3450-3550MHz) 30kHz SISO\_NTNV\_30MHz\_CP-OFDM 256 QAM 3534.99MHz\_Outer\_Full





#### 4.3 30k\_SISO\_40MHz\_NTNV

##### 4.3.1 Test Result

| 5G NR n78(3450-3550MHz) SCS=30kHz SISO 40MHz NTN |                 |               |                         |      |     |       |         |
|--------------------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                                       | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                                  |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                             | 3470.01         | Outer Full    | 9.62                    | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer Full    | 12.08                   | /    | /   | <=13  | Pass    |
|                                                  | 3529.98         | Outer Full    | 11.92                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                                  | 3470.01         | Outer Full    | 12.92                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer Full    | 11.01                   | /    | /   | <=13  | Pass    |
|                                                  | 3529.98         | Outer Full    | 10.46                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                                | 3470.01         | Outer Full    | 10.74                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer Full    | 11.06                   | /    | /   | <=13  | Pass    |
|                                                  | 3529.98         | Outer Full    | 10.93                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                                | 3470.01         | Outer Full    | 11.14                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer Full    | 11.14                   | /    | /   | <=13  | Pass    |
|                                                  | 3529.98         | Outer Full    | 11.05                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                               | 3470.01         | Outer Full    | 11.12                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer Full    | 11.00                   | /    | /   | <=13  | Pass    |
|                                                  | 3529.98         | Outer Full    | 11.00                   | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                                     | 3470.01         | Outer Full    | 11.54                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer Full    | 11.47                   | /    | /   | <=13  | Pass    |
|                                                  | 3529.98         | Outer Full    | 11.65                   | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                                   | 3470.01         | Outer Full    | 11.74                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer Full    | 11.71                   | /    | /   | <=13  | Pass    |
|                                                  | 3529.98         | Outer Full    | 11.65                   | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                                   | 3470.01         | Outer Full    | 11.89                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer Full    | 11.83                   | /    | /   | <=13  | Pass    |
|                                                  | 3529.98         | Outer Full    | 11.87                   | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                                  | 3470.01         | Outer Full    | 11.33                   | /    | /   | <=13  | Pass    |
|                                                  | 3500.01         | Outer Full    | 11.49                   | /    | /   | <=13  | Pass    |
|                                                  | 3529.98         | Outer Full    | 11.77                   | /    | /   | <=13  | Pass    |



4.3.2 Test Graph

