

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 15k\_SISO\_5MHz\_NTNV\_EIRP

| 5G NR n70 SCS=15kHz SISO 5MHz 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              | 1697.5          | Outer_Full      | 22.98                | /    | /   | 24.98     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_Full      | 23.55                | /    | /   | 25.55     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Left  | 23.48                | /    | /   | 25.48     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Right | 23.55                | /    | /   | 25.55     | /    | /   | <=30  | Pass    |
|                                   | 1702.5          | Outer_Full      | 22.95                | /    | /   | 24.95     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_Full      | 23.51                | /    | /   | 25.51     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Left  | 23.52                | /    | /   | 25.52     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Right | 23.52                | /    | /   | 25.52     | /    | /   | <=30  | Pass    |
|                                   | 1707.5          | Outer_Full      | 22.97                | /    | /   | 24.97     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_Full      | 23.51                | /    | /   | 25.51     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Left  | 23.49                | /    | /   | 25.49     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Right | 23.52                | /    | /   | 25.52     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM QPSK                   | 1697.5          | Outer_Full      | 22.54                | /    | /   | 24.54     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_Full      | 23.58                | /    | /   | 25.58     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Left  | 23.48                | /    | /   | 25.48     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Right | 23.63                | /    | /   | 25.63     | /    | /   | <=30  | Pass    |
|                                   | 1702.5          | Outer_Full      | 22.56                | /    | /   | 24.56     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_Full      | 23.55                | /    | /   | 25.55     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Left  | 23.51                | /    | /   | 25.51     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Right | 23.55                | /    | /   | 25.55     | /    | /   | <=30  | Pass    |
|                                   | 1707.5          | Outer_Full      | 22.40                | /    | /   | 24.40     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_Full      | 23.60                | /    | /   | 25.60     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Left  | 23.57                | /    | /   | 25.57     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Right | 23.62                | /    | /   | 25.62     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM 16 QAM                 | 1697.5          | Outer_Full      | 21.94                | /    | /   | 23.94     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_Full      | 22.55                | /    | /   | 24.55     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Left  | 22.21                | /    | /   | 24.21     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Right | 22.27                | /    | /   | 24.27     | /    | /   | <=30  | Pass    |
|                                   | 1702.5          | Outer_Full      | 21.91                | /    | /   | 23.91     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_Full      | 22.51                | /    | /   | 24.51     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Left  | 22.25                | /    | /   | 24.25     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Right | 22.28                | /    | /   | 24.28     | /    | /   | <=30  | Pass    |
|                                   | 1707.5          | Outer_Full      | 21.96                | /    | /   | 23.96     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_Full      | 22.53                | /    | /   | 24.53     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Left  | 22.30                | /    | /   | 24.30     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Right | 22.26                | /    | /   | 24.26     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM 64 QAM                 | 1697.5          | Outer_Full      | 21.49                | /    | /   | 23.49     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_Full      | 21.51                | /    | /   | 23.51     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Left  | 21.29                | /    | /   | 23.29     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Right | 21.43                | /    | /   | 23.43     | /    | /   | <=30  | Pass    |
|                                   | 1702.5          | Outer_Full      | 21.41                | /    | /   | 23.41     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_Full      | 21.40                | /    | /   | 23.40     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Left  | 21.30                | /    | /   | 23.30     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Right | 21.37                | /    | /   | 23.37     | /    | /   | <=30  | Pass    |
|                                   | 1707.5          | Outer_Full      | 21.39                | /    | /   | 23.39     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_Full      | 21.48                | /    | /   | 23.48     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Left  | 21.34                | /    | /   | 23.34     | /    | /   | <=30  | Pass    |
|                                   |                 | Inner_1RB_Right | 21.27                | /    | /   | 23.27     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM 256                    | 1697.5          | Outer_Full      | 19.60                | /    | /   | 21.60     | /    | /   | <=30  | Pass    |

|                 |        |                 |       |   |   |       |   |   |      |      |
|-----------------|--------|-----------------|-------|---|---|-------|---|---|------|------|
| QAM             |        | Inner Full      | 19.52 | / | / | 21.52 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 19.72 | / | / | 21.72 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 19.69 | / | / | 21.69 | / | / | <=30 | Pass |
|                 | 1702.5 | Outer Full      | 19.49 | / | / | 21.49 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 19.47 | / | / | 21.47 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 19.78 | / | / | 21.78 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 19.77 | / | / | 21.77 | / | / | <=30 | Pass |
|                 | 1707.5 | Outer Full      | 19.47 | / | / | 21.47 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 19.53 | / | / | 21.53 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 19.69 | / | / | 21.69 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 19.65 | / | / | 21.65 | / | / | <=30 | Pass |
| CP-OFDM QPSK    | 1697.5 | Outer Full      | 20.95 | / | / | 22.95 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 22.54 | / | / | 24.54 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 22.35 | / | / | 24.35 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 22.29 | / | / | 24.29 | / | / | <=30 | Pass |
|                 | 1702.5 | Outer Full      | 21.02 | / | / | 23.02 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 22.59 | / | / | 24.59 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 22.36 | / | / | 24.36 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 22.34 | / | / | 24.34 | / | / | <=30 | Pass |
|                 | 1707.5 | Outer Full      | 21.01 | / | / | 23.01 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 22.54 | / | / | 24.54 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 22.40 | / | / | 24.40 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 22.32 | / | / | 24.32 | / | / | <=30 | Pass |
| CP-OFDM 16 QAM  | 1697.5 | Outer Full      | 20.90 | / | / | 22.90 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 22.17 | / | / | 24.17 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 22.09 | / | / | 24.09 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 22.00 | / | / | 24.00 | / | / | <=30 | Pass |
|                 | 1702.5 | Outer Full      | 20.98 | / | / | 22.98 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 22.18 | / | / | 24.18 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 22.00 | / | / | 24.00 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 21.98 | / | / | 23.98 | / | / | <=30 | Pass |
|                 | 1707.5 | Outer Full      | 20.97 | / | / | 22.97 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 22.16 | / | / | 24.16 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 22.00 | / | / | 24.00 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 22.05 | / | / | 24.05 | / | / | <=30 | Pass |
| CP-OFDM 64 QAM  | 1697.5 | Outer Full      | 20.46 | / | / | 22.46 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 20.53 | / | / | 22.53 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 20.42 | / | / | 22.42 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 20.35 | / | / | 22.35 | / | / | <=30 | Pass |
|                 | 1702.5 | Outer Full      | 20.44 | / | / | 22.44 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 20.64 | / | / | 22.64 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 20.47 | / | / | 22.47 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 20.36 | / | / | 22.36 | / | / | <=30 | Pass |
|                 | 1707.5 | Outer Full      | 20.43 | / | / | 22.43 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 20.54 | / | / | 22.54 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 20.46 | / | / | 22.46 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 20.45 | / | / | 22.45 | / | / | <=30 | Pass |
| CP-OFDM 256 QAM | 1697.5 | Outer Full      | 17.51 | / | / | 19.51 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 17.29 | / | / | 19.29 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 17.82 | / | / | 19.82 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 17.72 | / | / | 19.72 | / | / | <=30 | Pass |
|                 | 1702.5 | Outer Full      | 17.47 | / | / | 19.47 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 17.32 | / | / | 19.32 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 17.80 | / | / | 19.80 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 17.84 | / | / | 19.84 | / | / | <=30 | Pass |
|                 | 1707.5 | Outer Full      | 17.42 | / | / | 19.42 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 17.32 | / | / | 19.32 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 17.80 | / | / | 19.80 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 17.76 | / | / | 19.76 | / | / | <=30 | Pass |

Note1: Antenna Gain: Ant1: 2.00dBi; Ant2: 2.00dBi;  
 Note2: EIRP=Conducted Power+Antenna Gain

## 1.1.2 15k\_SISO\_10MHz\_NTNV\_EIRP

| 5G NR n70 SCS=15kHz SISO 10MHz 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               | 1700            | Outer_Full      | 22.97                | /    | /   | 24.97     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_Full      | 23.46                | /    | /   | 25.46     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Left  | 23.40                | /    | /   | 25.40     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Right | 23.62                | /    | /   | 25.62     | /    | /   | <=30  | Pass    |
|                                    | 1702.5          | Outer_Full      | 23.00                | /    | /   | 25.00     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_Full      | 23.57                | /    | /   | 25.57     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Left  | 23.51                | /    | /   | 25.51     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Right | 23.58                | /    | /   | 25.58     | /    | /   | <=30  | Pass    |
|                                    | 1705            | Outer_Full      | 22.96                | /    | /   | 24.96     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_Full      | 23.51                | /    | /   | 25.51     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Left  | 23.51                | /    | /   | 25.51     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Right | 23.59                | /    | /   | 25.59     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM QPSK                    | 1700            | Outer_Full      | 22.42                | /    | /   | 24.42     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_Full      | 23.51                | /    | /   | 25.51     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Left  | 23.49                | /    | /   | 25.49     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Right | 23.55                | /    | /   | 25.55     | /    | /   | <=30  | Pass    |
|                                    | 1702.5          | Outer_Full      | 22.43                | /    | /   | 24.43     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_Full      | 23.53                | /    | /   | 25.53     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Left  | 23.48                | /    | /   | 25.48     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Right | 23.55                | /    | /   | 25.55     | /    | /   | <=30  | Pass    |
|                                    | 1705            | Outer_Full      | 22.49                | /    | /   | 24.49     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_Full      | 23.56                | /    | /   | 25.56     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Left  | 23.53                | /    | /   | 25.53     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Right | 23.69                | /    | /   | 25.69     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM 16 QAM                  | 1700            | Outer_Full      | 21.99                | /    | /   | 23.99     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_Full      | 22.50                | /    | /   | 24.50     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Left  | 22.20                | /    | /   | 24.20     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Right | 22.31                | /    | /   | 24.31     | /    | /   | <=30  | Pass    |
|                                    | 1702.5          | Outer_Full      | 21.94                | /    | /   | 23.94     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_Full      | 22.49                | /    | /   | 24.49     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Left  | 22.19                | /    | /   | 24.19     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Right | 22.34                | /    | /   | 24.34     | /    | /   | <=30  | Pass    |
|                                    | 1705            | Outer_Full      | 21.97                | /    | /   | 23.97     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_Full      | 22.46                | /    | /   | 24.46     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Left  | 22.28                | /    | /   | 24.28     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Right | 22.30                | /    | /   | 24.30     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM 64 QAM                  | 1700            | Outer_Full      | 21.58                | /    | /   | 23.58     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_Full      | 21.55                | /    | /   | 23.55     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Left  | 21.36                | /    | /   | 23.36     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Right | 21.41                | /    | /   | 23.41     | /    | /   | <=30  | Pass    |
|                                    | 1702.5          | Outer_Full      | 21.48                | /    | /   | 23.48     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_Full      | 21.45                | /    | /   | 23.45     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Left  | 21.27                | /    | /   | 23.27     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Right | 21.32                | /    | /   | 23.32     | /    | /   | <=30  | Pass    |
|                                    | 1705            | Outer_Full      | 21.51                | /    | /   | 23.51     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_Full      | 21.49                | /    | /   | 23.49     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Left  | 21.29                | /    | /   | 23.29     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_1RB_Right | 21.37                | /    | /   | 23.37     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM 256 QAM                 | 1700            | Outer_Full      | 19.35                | /    | /   | 21.35     | /    | /   | <=30  | Pass    |
|                                    |                 | Inner_Full      | 19.51                | /    | /   | 21.51     | /    | /   | <=30  | Pass    |

|                 |        |                 |       |   |   |       |   |   |      |      |
|-----------------|--------|-----------------|-------|---|---|-------|---|---|------|------|
|                 |        | Inner 1RB Left  | 19.78 | / | / | 21.78 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 19.79 | / | / | 21.79 | / | / | <=30 | Pass |
|                 | 1702.5 | Outer Full      | 19.44 | / | / | 21.44 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 19.56 | / | / | 21.56 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 19.69 | / | / | 21.69 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 19.70 | / | / | 21.70 | / | / | <=30 | Pass |
|                 | 1705   | Outer Full      | 19.39 | / | / | 21.39 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 19.43 | / | / | 21.43 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 19.72 | / | / | 21.72 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 19.82 | / | / | 21.82 | / | / | <=30 | Pass |
| CP-OFDM QPSK    | 1700   | Outer Full      | 21.04 | / | / | 23.04 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 22.45 | / | / | 24.45 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 22.40 | / | / | 24.40 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 22.40 | / | / | 24.40 | / | / | <=30 | Pass |
|                 | 1702.5 | Outer Full      | 21.01 | / | / | 23.01 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 22.53 | / | / | 24.53 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 22.48 | / | / | 24.48 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 22.61 | / | / | 24.61 | / | / | <=30 | Pass |
|                 | 1705   | Outer Full      | 20.99 | / | / | 22.99 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 22.45 | / | / | 24.45 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 22.54 | / | / | 24.54 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 22.58 | / | / | 24.58 | / | / | <=30 | Pass |
| CP-OFDM 16 QAM  | 1700   | Outer Full      | 21.00 | / | / | 23.00 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 22.09 | / | / | 24.09 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 21.72 | / | / | 23.72 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 21.78 | / | / | 23.78 | / | / | <=30 | Pass |
|                 | 1702.5 | Outer Full      | 20.95 | / | / | 22.95 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 22.05 | / | / | 24.05 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 21.74 | / | / | 23.74 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 21.89 | / | / | 23.89 | / | / | <=30 | Pass |
|                 | 1705   | Outer Full      | 21.01 | / | / | 23.01 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 21.98 | / | / | 23.98 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 21.78 | / | / | 23.78 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 21.87 | / | / | 23.87 | / | / | <=30 | Pass |
| CP-OFDM 64 QAM  | 1700   | Outer Full      | 20.51 | / | / | 22.51 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 20.47 | / | / | 22.47 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 20.44 | / | / | 22.44 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 20.38 | / | / | 22.38 | / | / | <=30 | Pass |
|                 | 1702.5 | Outer Full      | 20.41 | / | / | 22.41 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 20.47 | / | / | 22.47 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 20.32 | / | / | 22.32 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 20.46 | / | / | 22.46 | / | / | <=30 | Pass |
|                 | 1705   | Outer Full      | 20.45 | / | / | 22.45 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 20.50 | / | / | 22.50 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 20.39 | / | / | 22.39 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 20.36 | / | / | 22.36 | / | / | <=30 | Pass |
| CP-OFDM 256 QAM | 1700   | Outer Full      | 17.46 | / | / | 19.46 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 17.50 | / | / | 19.50 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 17.77 | / | / | 19.77 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 17.88 | / | / | 19.88 | / | / | <=30 | Pass |
|                 | 1702.5 | Outer Full      | 17.43 | / | / | 19.43 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 17.47 | / | / | 19.47 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 17.79 | / | / | 19.79 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 17.86 | / | / | 19.86 | / | / | <=30 | Pass |
|                 | 1705   | Outer Full      | 17.44 | / | / | 19.44 | / | / | <=30 | Pass |
|                 |        | Inner Full      | 17.40 | / | / | 19.40 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Left  | 17.82 | / | / | 19.82 | / | / | <=30 | Pass |
|                 |        | Inner 1RB Right | 17.83 | / | / | 19.83 | / | / | <=30 | Pass |

Note1: Antenna Gain: Ant1: 2.00dBi; Ant2: 2.00dBi;

|                                          |
|------------------------------------------|
| Note2: EIRP=Conducted Power+Antenna Gain |
|------------------------------------------|

## 1.1.3 15k\_SISO\_15MHz\_NTNV\_EIRP

| 5G NR n70 SCS=15kHz SISO 15MHz NTN                                                             |                    |                 |                      |      |     |           |      |     |       |         |
|------------------------------------------------------------------------------------------------|--------------------|-----------------|----------------------|------|-----|-----------|------|-----|-------|---------|
| Modulation                                                                                     | Frequency<br>(MHz) | RB              | Conducted Power(dBm) |      |     | EIRP(dBm) |      |     |       | Verdict |
|                                                                                                |                    | Allocation      | Ant1                 | Ant2 | Sum | Ant1      | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                                                                           | 1702.5             | Outer_Full      | 22.99                | /    | /   | 24.99     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_Full      | 23.61                | /    | /   | 25.61     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_1RB_Left  | 23.42                | /    | /   | 25.42     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_1RB_Right | 23.56                | /    | /   | 25.56     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM QPSK                                                                                | 1702.5             | Outer_Full      | 22.50                | /    | /   | 24.50     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_Full      | 23.57                | /    | /   | 25.57     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_1RB_Left  | 23.44                | /    | /   | 25.44     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_1RB_Right | 23.61                | /    | /   | 25.61     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM 16 QAM                                                                              | 1702.5             | Outer_Full      | 21.99                | /    | /   | 23.99     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_Full      | 22.48                | /    | /   | 24.48     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_1RB_Left  | 22.19                | /    | /   | 24.19     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_1RB_Right | 22.26                | /    | /   | 24.26     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM 64 QAM                                                                              | 1702.5             | Outer_Full      | 21.50                | /    | /   | 23.50     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_Full      | 21.44                | /    | /   | 23.44     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_1RB_Left  | 21.28                | /    | /   | 23.28     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_1RB_Right | 21.37                | /    | /   | 23.37     | /    | /   | <=30  | Pass    |
| DFT-s-OFDM 256 QAM                                                                             | 1702.5             | Outer_Full      | 19.40                | /    | /   | 21.40     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_Full      | 19.42                | /    | /   | 21.42     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_1RB_Left  | 19.77                | /    | /   | 21.77     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_1RB_Right | 19.87                | /    | /   | 21.87     | /    | /   | <=30  | Pass    |
| CP-OFDM QPSK                                                                                   | 1702.5             | Outer_Full      | 21.03                | /    | /   | 23.03     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_Full      | 22.59                | /    | /   | 24.59     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_1RB_Left  | 22.49                | /    | /   | 24.49     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_1RB_Right | 22.57                | /    | /   | 24.57     | /    | /   | <=30  | Pass    |
| CP-OFDM 16 QAM                                                                                 | 1702.5             | Outer_Full      | 20.97                | /    | /   | 22.97     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_Full      | 21.98                | /    | /   | 23.98     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_1RB_Left  | 21.81                | /    | /   | 23.81     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_1RB_Right | 21.81                | /    | /   | 23.81     | /    | /   | <=30  | Pass    |
| CP-OFDM 64 QAM                                                                                 | 1702.5             | Outer_Full      | 20.48                | /    | /   | 22.48     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_Full      | 20.53                | /    | /   | 22.53     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_1RB_Left  | 20.32                | /    | /   | 22.32     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_1RB_Right | 20.45                | /    | /   | 22.45     | /    | /   | <=30  | Pass    |
| CP-OFDM 256 QAM                                                                                | 1702.5             | Outer_Full      | 17.45                | /    | /   | 19.45     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_Full      | 17.38                | /    | /   | 19.38     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_1RB_Left  | 17.81                | /    | /   | 19.81     | /    | /   | <=30  | Pass    |
|                                                                                                |                    | Inner_1RB_Right | 17.89                | /    | /   | 19.89     | /    | /   | <=30  | Pass    |
| Note1: Antenna Gain: Ant1: 2.00dBi; Ant2: 2.00dBi;<br>Note2: EIRP=Conducted Power+Antenna Gain |                    |                 |                      |      |     |           |      |     |       |         |

## 1.1.4 15k\_MIMO\_5MHz\_NTNV\_EIRP

| 5G NR n70 SCS=15kHz MIMO 5MHz 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              | 1697.5          | Outer_Full      | 19.72                | 19.79 | 22.77 | 21.72     | 21.79 | 24.77 | <=30  | Pass    |
|                                   |                 | Inner_Full      | 20.29                | 20.36 | 23.34 | 22.29     | 22.36 | 25.34 | <=30  | Pass    |
|                                   |                 | Inner_1RB_Left  | 20.31                | 20.37 | 23.35 | 22.31     | 22.37 | 25.35 | <=30  | Pass    |
|                                   |                 | Inner_1RB_Right | 20.25                | 20.34 | 23.31 | 22.25     | 22.34 | 25.31 | <=30  | Pass    |
|                                   | 1702.5          | Outer_Full      | 19.69                | 19.83 | 22.77 | 21.69     | 21.83 | 24.77 | <=30  | Pass    |

|                    |        |                 |       |       |       |       |       |       |      |      |
|--------------------|--------|-----------------|-------|-------|-------|-------|-------|-------|------|------|
|                    |        | Inner Full      | 20.26 | 20.41 | 23.35 | 22.26 | 22.41 | 25.35 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 20.25 | 20.37 | 23.32 | 22.25 | 22.37 | 25.32 | <=30 | Pass |
|                    |        | Inner 1RB Right | 20.17 | 20.33 | 23.26 | 22.17 | 22.33 | 25.26 | <=30 | Pass |
|                    | 1707.5 | Outer Full      | 19.60 | 19.76 | 22.69 | 21.60 | 21.76 | 24.69 | <=30 | Pass |
|                    |        | Inner Full      | 20.24 | 20.41 | 23.34 | 22.24 | 22.41 | 25.34 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 20.22 | 20.38 | 23.31 | 22.22 | 22.38 | 25.31 | <=30 | Pass |
|                    |        | Inner 1RB Right | 20.29 | 20.47 | 23.39 | 22.29 | 22.47 | 25.39 | <=30 | Pass |
|                    |        | Outer Full      | 19.26 | 19.33 | 22.30 | 21.26 | 21.33 | 24.31 | <=30 | Pass |
|                    |        | Inner Full      | 20.33 | 20.40 | 23.37 | 22.33 | 22.40 | 25.38 | <=30 | Pass |
| DFT-s-OFDM QPSK    | 1697.5 | Inner 1RB Left  | 20.22 | 20.28 | 23.26 | 22.22 | 22.28 | 25.26 | <=30 | Pass |
|                    |        | Inner 1RB Right | 20.12 | 20.22 | 23.18 | 22.12 | 22.22 | 25.18 | <=30 | Pass |
|                    |        | Outer Full      | 19.16 | 19.31 | 22.25 | 21.16 | 21.31 | 24.25 | <=30 | Pass |
|                    | 1702.5 | Inner Full      | 20.27 | 20.41 | 23.35 | 22.27 | 22.41 | 25.35 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 20.13 | 20.25 | 23.20 | 22.13 | 22.25 | 25.20 | <=30 | Pass |
|                    |        | Inner 1RB Right | 20.11 | 20.27 | 23.20 | 22.11 | 22.27 | 25.20 | <=30 | Pass |
|                    | 1707.5 | Outer Full      | 19.19 | 19.36 | 22.29 | 21.19 | 21.36 | 24.29 | <=30 | Pass |
|                    |        | Inner Full      | 20.24 | 20.40 | 23.33 | 22.24 | 22.40 | 25.33 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 20.11 | 20.26 | 23.20 | 22.11 | 22.26 | 25.20 | <=30 | Pass |
|                    |        | Inner 1RB Right | 20.15 | 20.32 | 23.24 | 22.15 | 22.32 | 25.25 | <=30 | Pass |
|                    |        | Outer Full      | 18.35 | 18.43 | 21.40 | 20.35 | 20.43 | 23.40 | <=30 | Pass |
|                    |        | Inner Full      | 19.36 | 19.44 | 22.41 | 21.36 | 21.44 | 24.41 | <=30 | Pass |
| DFT-s-OFDM 16 QAM  | 1697.5 | Inner 1RB Left  | 19.35 | 19.41 | 22.39 | 21.35 | 21.41 | 24.39 | <=30 | Pass |
|                    |        | Inner 1RB Right | 19.26 | 19.35 | 22.31 | 21.26 | 21.35 | 24.32 | <=30 | Pass |
|                    |        | Outer Full      | 18.19 | 18.33 | 21.27 | 20.19 | 20.33 | 23.27 | <=30 | Pass |
|                    | 1702.5 | Inner Full      | 19.32 | 19.46 | 22.40 | 21.32 | 21.46 | 24.40 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 19.23 | 19.35 | 22.30 | 21.23 | 21.35 | 24.30 | <=30 | Pass |
|                    |        | Inner 1RB Right | 19.20 | 19.36 | 22.29 | 21.20 | 21.36 | 24.29 | <=30 | Pass |
|                    | 1707.5 | Outer Full      | 18.16 | 18.32 | 21.25 | 20.16 | 20.32 | 23.25 | <=30 | Pass |
|                    |        | Inner Full      | 19.27 | 19.43 | 22.36 | 21.27 | 21.43 | 24.36 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 19.27 | 19.42 | 22.36 | 21.27 | 21.42 | 24.36 | <=30 | Pass |
|                    |        | Inner 1RB Right | 19.16 | 19.33 | 22.25 | 21.16 | 21.33 | 24.26 | <=30 | Pass |
|                    |        | Outer Full      | 17.69 | 17.76 | 20.74 | 19.69 | 19.76 | 22.74 | <=30 | Pass |
|                    |        | Inner Full      | 17.79 | 17.87 | 20.84 | 19.79 | 19.87 | 22.84 | <=30 | Pass |
| DFT-s-OFDM 64 QAM  | 1697.5 | Inner 1RB Left  | 17.66 | 17.72 | 20.71 | 19.66 | 19.72 | 22.70 | <=30 | Pass |
|                    |        | Inner 1RB Right | 18.13 | 18.23 | 21.19 | 20.13 | 20.23 | 23.19 | <=30 | Pass |
|                    |        | Outer Full      | 17.65 | 17.79 | 20.73 | 19.65 | 19.79 | 22.73 | <=30 | Pass |
|                    | 1702.5 | Inner Full      | 17.74 | 17.88 | 20.82 | 19.74 | 19.88 | 22.82 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 17.66 | 17.78 | 20.73 | 19.66 | 19.78 | 22.73 | <=30 | Pass |
|                    |        | Inner 1RB Right | 17.60 | 17.76 | 20.69 | 19.60 | 19.76 | 22.69 | <=30 | Pass |
|                    | 1707.5 | Outer Full      | 17.63 | 17.79 | 20.72 | 19.63 | 19.79 | 22.72 | <=30 | Pass |
|                    |        | Inner Full      | 17.65 | 17.82 | 20.74 | 19.65 | 19.82 | 22.75 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 17.66 | 17.81 | 20.75 | 19.66 | 19.81 | 22.75 | <=30 | Pass |
|                    |        | Inner 1RB Right | 17.67 | 17.85 | 20.77 | 19.67 | 19.85 | 22.77 | <=30 | Pass |
|                    |        | Outer Full      | 15.89 | 15.97 | 18.94 | 17.89 | 17.97 | 20.94 | <=30 | Pass |
|                    |        | Inner Full      | 15.71 | 15.79 | 18.76 | 17.71 | 17.79 | 20.76 | <=30 | Pass |
| DFT-s-OFDM 256 QAM | 1697.5 | Inner 1RB Left  | 16.12 | 16.17 | 19.16 | 18.12 | 18.17 | 21.16 | <=30 | Pass |
|                    |        | Inner 1RB Right | 16.08 | 16.17 | 19.14 | 18.08 | 18.17 | 21.14 | <=30 | Pass |
|                    |        | Outer Full      | 15.80 | 15.95 | 18.89 | 17.80 | 17.95 | 20.89 | <=30 | Pass |
|                    | 1702.5 | Inner Full      | 15.73 | 15.87 | 18.81 | 17.73 | 17.87 | 20.81 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 15.94 | 16.06 | 19.01 | 17.94 | 18.06 | 21.01 | <=30 | Pass |
|                    |        | Inner 1RB Right | 15.84 | 16.01 | 18.94 | 17.84 | 18.01 | 20.94 | <=30 | Pass |
|                    | 1707.5 | Outer Full      | 15.85 | 16.02 | 18.94 | 17.85 | 18.02 | 20.95 | <=30 | Pass |
|                    |        | Inner Full      | 15.68 | 15.84 | 18.77 | 17.68 | 17.84 | 20.77 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 16.16 | 16.32 | 19.25 | 18.16 | 18.32 | 21.25 | <=30 | Pass |
|                    |        | Inner 1RB Right | 15.95 | 16.12 | 19.04 | 17.95 | 18.12 | 21.05 | <=30 | Pass |
|                    |        | Outer Full      | 17.23 | 17.30 | 20.28 | 19.23 | 19.30 | 22.28 | <=30 | Pass |
|                    |        | Inner Full      | 18.72 | 18.79 | 21.77 | 20.72 | 20.79 | 23.77 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 18.82 | 18.88 | 21.86 | 20.82 | 20.88 | 23.86 | <=30 | Pass |
| CP-OFDM QPSK       | 1697.5 | Inner 1RB Right | 18.71 | 18.81 | 21.77 | 20.71 | 20.81 | 23.77 | <=30 | Pass |

|                                                                                                                                                                            |        |                 |       |       |       |       |       |       |      |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|-------|-------|-------|-------|-------|-------|------|------|
|                                                                                                                                                                            | 1702.5 | Outer_Full      | 17.12 | 17.26 | 20.20 | 19.12 | 19.26 | 22.20 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 18.68 | 18.82 | 21.76 | 20.68 | 20.82 | 23.76 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 18.67 | 18.79 | 21.74 | 20.67 | 20.79 | 23.74 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 18.53 | 18.69 | 21.62 | 20.53 | 20.69 | 23.62 | <=30 | Pass |
|                                                                                                                                                                            | 1707.5 | Outer_Full      | 17.16 | 17.33 | 20.26 | 19.16 | 19.33 | 22.26 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 18.73 | 18.89 | 21.82 | 20.73 | 20.89 | 23.82 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 18.84 | 18.99 | 21.93 | 20.84 | 20.99 | 23.93 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 18.70 | 18.87 | 21.80 | 20.70 | 20.87 | 23.80 | <=30 | Pass |
| CP-OFDM 16 QAM                                                                                                                                                             | 1697.5 | Outer_Full      | 17.24 | 17.31 | 20.29 | 19.24 | 19.31 | 22.29 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 18.34 | 18.41 | 21.38 | 20.34 | 20.41 | 23.39 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 18.45 | 18.51 | 21.49 | 20.45 | 20.51 | 23.49 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 18.31 | 18.41 | 21.37 | 20.31 | 20.41 | 23.37 | <=30 | Pass |
|                                                                                                                                                                            | 1702.5 | Outer_Full      | 17.10 | 17.24 | 20.18 | 19.10 | 19.24 | 22.18 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 18.25 | 18.39 | 21.33 | 20.25 | 20.39 | 23.33 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 18.10 | 18.22 | 21.17 | 20.10 | 20.22 | 23.17 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 18.02 | 18.18 | 21.11 | 20.02 | 20.18 | 23.11 | <=30 | Pass |
|                                                                                                                                                                            | 1707.5 | Outer_Full      | 17.15 | 17.31 | 20.24 | 19.15 | 19.31 | 22.24 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 18.35 | 18.52 | 21.45 | 20.35 | 20.52 | 23.45 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 18.30 | 18.45 | 21.39 | 20.30 | 20.45 | 23.39 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 18.22 | 18.39 | 21.32 | 20.22 | 20.39 | 23.32 | <=30 | Pass |
| CP-OFDM 64 QAM                                                                                                                                                             | 1697.5 | Outer_Full      | 16.63 | 16.70 | 19.68 | 18.63 | 18.70 | 21.68 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 16.68 | 16.75 | 19.72 | 18.68 | 18.75 | 21.73 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 16.90 | 16.96 | 19.94 | 18.90 | 18.96 | 21.94 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 16.78 | 16.87 | 19.84 | 18.78 | 18.87 | 21.84 | <=30 | Pass |
|                                                                                                                                                                            | 1702.5 | Outer_Full      | 16.60 | 16.74 | 19.68 | 18.60 | 18.74 | 21.68 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 16.69 | 16.84 | 19.78 | 18.69 | 18.84 | 21.78 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 16.89 | 17.01 | 19.97 | 18.89 | 19.01 | 21.96 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 16.40 | 16.56 | 19.49 | 18.40 | 18.56 | 21.49 | <=30 | Pass |
|                                                                                                                                                                            | 1707.5 | Outer_Full      | 16.55 | 16.72 | 19.64 | 18.55 | 18.72 | 21.65 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 16.54 | 16.71 | 19.64 | 18.54 | 18.71 | 21.64 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 16.82 | 16.98 | 19.91 | 18.82 | 18.98 | 21.91 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 16.67 | 16.85 | 19.77 | 18.67 | 18.85 | 21.77 | <=30 | Pass |
| CP-OFDM 256 QAM                                                                                                                                                            | 1697.5 | Outer_Full      | 13.81 | 13.88 | 16.86 | 15.81 | 15.88 | 18.86 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 13.90 | 13.98 | 16.95 | 15.90 | 15.98 | 18.95 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 13.92 | 13.98 | 16.96 | 15.92 | 15.98 | 18.96 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 13.76 | 13.86 | 16.82 | 15.76 | 15.86 | 18.82 | <=30 | Pass |
|                                                                                                                                                                            | 1702.5 | Outer_Full      | 13.79 | 13.94 | 16.88 | 15.79 | 15.94 | 18.88 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 13.85 | 14.00 | 16.93 | 15.85 | 16.00 | 18.94 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 13.79 | 13.91 | 16.86 | 15.79 | 15.91 | 18.86 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 13.72 | 13.89 | 16.82 | 15.72 | 15.89 | 18.82 | <=30 | Pass |
|                                                                                                                                                                            | 1707.5 | Outer_Full      | 13.77 | 13.94 | 16.87 | 15.77 | 15.94 | 18.87 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 13.84 | 14.01 | 16.93 | 15.84 | 16.01 | 18.94 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 13.78 | 13.93 | 16.87 | 15.78 | 15.93 | 18.87 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 13.65 | 13.83 | 16.75 | 15.65 | 15.83 | 18.75 | <=30 | Pass |
| Note1: Antenna Gain: Ant1: 2.00dBi; Ant2: 2.00dBi;<br>Note2: EIRP Ant_1=Conducted Power_1+Ant Gain_1 / EIRP Ant_2=Conducted Power_2+Ant Gain_2 / Sum=EIRP Ant_1+EIRP Ant_2 |        |                 |       |       |       |       |       |       |      |      |

## 1.1.5 15k\_MIMO\_10MHz\_NTNV\_EIRP

| 5G NR n70 SCS=15kHz MIMO 10MHz NTNv |                 |                 |                      |       |       |           |       |       |       |         |
|-------------------------------------|-----------------|-----------------|----------------------|-------|-------|-----------|-------|-------|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation   | Conducted Power(dBm) |       |       | EIRP(dBm) |       |       |       | Verdict |
|                                     |                 |                 | Ant1                 | Ant2  | Sum   | Ant1      | Ant2  | Sum   | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 1700            | Outer_Full      | 19.73                | 19.82 | 22.78 | 21.73     | 21.82 | 24.79 | <=30  | Pass    |
|                                     |                 | Inner_Full      | 20.37                | 20.46 | 23.42 | 22.37     | 22.46 | 25.43 | <=30  | Pass    |
|                                     |                 | Inner_1RB_Left  | 20.29                | 20.34 | 23.32 | 22.29     | 22.34 | 25.33 | <=30  | Pass    |
|                                     |                 | Inner_1RB_Right | 20.40                | 20.55 | 23.49 | 22.40     | 22.55 | 25.49 | <=30  | Pass    |
|                                     | 1702.5          | Outer_Full      | 19.66                | 19.80 | 22.74 | 21.66     | 21.80 | 24.74 | <=30  | Pass    |

|                    |        |                 |       |       |       |       |       |       |      |      |
|--------------------|--------|-----------------|-------|-------|-------|-------|-------|-------|------|------|
|                    |        | Inner Full      | 20.26 | 20.39 | 23.34 | 22.26 | 22.39 | 25.34 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 20.22 | 20.30 | 23.27 | 22.22 | 22.30 | 25.27 | <=30 | Pass |
|                    |        | Inner 1RB Right | 20.23 | 20.40 | 23.33 | 22.23 | 22.40 | 25.33 | <=30 | Pass |
|                    | 1705   | Outer Full      | 19.64 | 19.79 | 22.73 | 21.64 | 21.79 | 24.73 | <=30 | Pass |
|                    |        | Inner Full      | 20.27 | 20.42 | 23.36 | 22.27 | 22.42 | 25.36 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 20.39 | 20.50 | 23.46 | 22.39 | 22.50 | 25.46 | <=30 | Pass |
|                    |        | Inner 1RB Right | 20.20 | 20.37 | 23.29 | 22.20 | 22.37 | 25.30 | <=30 | Pass |
| DFT-s-OFDM QPSK    | 1700   | Outer Full      | 19.23 | 19.32 | 22.29 | 21.23 | 21.32 | 24.29 | <=30 | Pass |
|                    |        | Inner Full      | 20.33 | 20.43 | 23.39 | 22.33 | 22.43 | 25.39 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 20.32 | 20.37 | 23.36 | 22.32 | 22.37 | 25.36 | <=30 | Pass |
|                    |        | Inner 1RB Right | 20.19 | 20.34 | 23.28 | 22.19 | 22.34 | 25.28 | <=30 | Pass |
|                    | 1702.5 | Outer Full      | 19.19 | 19.33 | 22.27 | 21.19 | 21.33 | 24.27 | <=30 | Pass |
|                    |        | Inner Full      | 20.19 | 20.32 | 23.27 | 22.19 | 22.32 | 25.27 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 20.06 | 20.15 | 23.11 | 22.06 | 22.15 | 25.12 | <=30 | Pass |
|                    |        | Inner 1RB Right | 20.12 | 20.30 | 23.22 | 22.12 | 22.30 | 25.22 | <=30 | Pass |
|                    | 1705   | Outer Full      | 19.18 | 19.33 | 22.27 | 21.18 | 21.33 | 24.27 | <=30 | Pass |
|                    |        | Inner Full      | 20.29 | 20.44 | 23.38 | 22.29 | 22.44 | 25.38 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 20.17 | 20.27 | 23.23 | 22.17 | 22.27 | 25.23 | <=30 | Pass |
|                    |        | Inner 1RB Right | 20.27 | 20.45 | 23.37 | 22.27 | 22.45 | 25.37 | <=30 | Pass |
| DFT-s-OFDM 16 QAM  | 1700   | Outer Full      | 18.31 | 18.41 | 21.37 | 20.31 | 20.41 | 23.37 | <=30 | Pass |
|                    |        | Inner Full      | 19.18 | 19.28 | 22.24 | 21.18 | 21.28 | 24.24 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 19.35 | 19.40 | 22.38 | 21.35 | 21.40 | 24.39 | <=30 | Pass |
|                    |        | Inner 1RB Right | 19.19 | 19.35 | 22.28 | 21.19 | 21.35 | 24.28 | <=30 | Pass |
|                    | 1702.5 | Outer Full      | 18.12 | 18.26 | 21.20 | 20.12 | 20.26 | 23.20 | <=30 | Pass |
|                    |        | Inner Full      | 19.26 | 19.39 | 22.34 | 21.26 | 21.39 | 24.34 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 19.25 | 19.34 | 22.31 | 21.25 | 21.34 | 24.31 | <=30 | Pass |
|                    |        | Inner 1RB Right | 19.17 | 19.35 | 22.27 | 21.17 | 21.35 | 24.27 | <=30 | Pass |
|                    | 1705   | Outer Full      | 18.23 | 18.38 | 21.31 | 20.23 | 20.38 | 23.32 | <=30 | Pass |
|                    |        | Inner Full      | 19.25 | 19.39 | 22.33 | 21.25 | 21.39 | 24.33 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 19.27 | 19.37 | 22.33 | 21.27 | 21.37 | 24.33 | <=30 | Pass |
|                    |        | Inner 1RB Right | 19.18 | 19.35 | 22.27 | 21.18 | 21.35 | 24.28 | <=30 | Pass |
| DFT-s-OFDM 64 QAM  | 1700   | Outer Full      | 17.73 | 17.83 | 20.79 | 19.73 | 19.83 | 22.79 | <=30 | Pass |
|                    |        | Inner Full      | 17.77 | 17.86 | 20.83 | 19.77 | 19.86 | 22.83 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 17.92 | 17.97 | 20.95 | 19.92 | 19.97 | 22.96 | <=30 | Pass |
|                    |        | Inner 1RB Right | 17.80 | 17.95 | 20.89 | 19.80 | 19.95 | 22.89 | <=30 | Pass |
|                    | 1702.5 | Outer Full      | 17.70 | 17.83 | 20.78 | 19.70 | 19.83 | 22.78 | <=30 | Pass |
|                    |        | Inner Full      | 17.66 | 17.80 | 20.74 | 19.66 | 19.80 | 22.74 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 17.55 | 17.64 | 20.61 | 19.55 | 19.64 | 22.61 | <=30 | Pass |
|                    |        | Inner 1RB Right | 17.50 | 17.68 | 20.60 | 19.50 | 19.68 | 22.60 | <=30 | Pass |
|                    | 1705   | Outer Full      | 17.71 | 17.86 | 20.80 | 19.71 | 19.86 | 22.80 | <=30 | Pass |
|                    |        | Inner Full      | 17.66 | 17.81 | 20.74 | 19.66 | 19.81 | 22.75 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 17.84 | 17.94 | 20.90 | 19.84 | 19.94 | 22.90 | <=30 | Pass |
|                    |        | Inner 1RB Right | 17.58 | 17.75 | 20.68 | 19.58 | 19.75 | 22.68 | <=30 | Pass |
| DFT-s-OFDM 256 QAM | 1700   | Outer Full      | 15.87 | 15.97 | 18.93 | 17.87 | 17.97 | 20.93 | <=30 | Pass |
|                    |        | Inner Full      | 15.94 | 16.04 | 19.00 | 17.94 | 18.04 | 21.00 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 16.13 | 16.18 | 19.17 | 18.13 | 18.18 | 21.17 | <=30 | Pass |
|                    |        | Inner 1RB Right | 16.08 | 16.23 | 19.16 | 18.08 | 18.23 | 21.17 | <=30 | Pass |
|                    | 1702.5 | Outer Full      | 15.66 | 15.80 | 18.74 | 17.66 | 17.80 | 20.74 | <=30 | Pass |
|                    |        | Inner Full      | 15.81 | 15.95 | 18.89 | 17.81 | 17.95 | 20.89 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 15.88 | 15.98 | 18.94 | 17.88 | 17.98 | 20.94 | <=30 | Pass |
|                    |        | Inner 1RB Right | 15.66 | 15.84 | 18.76 | 17.66 | 17.84 | 20.76 | <=30 | Pass |
|                    | 1705   | Outer Full      | 15.81 | 15.95 | 18.89 | 17.81 | 17.95 | 20.89 | <=30 | Pass |
|                    |        | Inner Full      | 15.86 | 16.01 | 18.95 | 17.86 | 18.01 | 20.95 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 16.11 | 16.21 | 19.17 | 18.11 | 18.21 | 21.17 | <=30 | Pass |
|                    |        | Inner 1RB Right | 16.07 | 16.24 | 19.17 | 18.07 | 18.24 | 21.17 | <=30 | Pass |
| CP-OFDM QPSK       | 1700   | Outer Full      | 17.26 | 17.36 | 20.32 | 19.26 | 19.36 | 22.32 | <=30 | Pass |
|                    |        | Inner Full      | 18.84 | 18.94 | 21.90 | 20.84 | 20.94 | 23.90 | <=30 | Pass |
|                    |        | Inner 1RB Left  | 18.81 | 18.87 | 21.85 | 20.81 | 20.87 | 23.85 | <=30 | Pass |
|                    |        | Inner 1RB Right | 18.75 | 18.90 | 21.83 | 20.75 | 20.90 | 23.84 | <=30 | Pass |

|                                                                                                                                                                            |        |                 |       |       |       |       |       |       |      |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|-------|-------|-------|-------|-------|-------|------|------|
|                                                                                                                                                                            | 1702.5 | Outer_Full      | 17.04 | 17.18 | 20.12 | 19.04 | 19.18 | 22.12 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 18.72 | 18.86 | 21.80 | 20.72 | 20.86 | 23.80 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 18.57 | 18.66 | 21.62 | 20.57 | 20.66 | 23.63 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 18.60 | 18.78 | 21.70 | 20.60 | 20.78 | 23.70 | <=30 | Pass |
|                                                                                                                                                                            | 1705   | Outer_Full      | 17.11 | 17.26 | 20.19 | 19.11 | 19.26 | 22.20 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 18.73 | 18.88 | 21.82 | 20.73 | 20.88 | 23.82 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 18.81 | 18.91 | 21.87 | 20.81 | 20.91 | 23.87 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 18.79 | 18.96 | 21.88 | 20.79 | 20.96 | 23.89 | <=30 | Pass |
| CP-OFDM 16 QAM                                                                                                                                                             | 1700   | Outer_Full      | 17.26 | 17.36 | 20.32 | 19.26 | 19.36 | 22.32 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 18.22 | 18.32 | 21.28 | 20.22 | 20.32 | 23.28 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 18.36 | 18.41 | 21.40 | 20.36 | 20.41 | 23.40 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 18.26 | 18.41 | 21.34 | 20.26 | 20.41 | 23.35 | <=30 | Pass |
|                                                                                                                                                                            | 1702.5 | Outer_Full      | 17.09 | 17.23 | 20.17 | 19.09 | 19.23 | 22.17 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 18.10 | 18.24 | 21.18 | 20.10 | 20.24 | 23.18 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 18.14 | 18.23 | 21.20 | 20.14 | 20.23 | 23.20 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 18.23 | 18.42 | 21.34 | 20.23 | 20.42 | 23.34 | <=30 | Pass |
|                                                                                                                                                                            | 1705   | Outer_Full      | 17.17 | 17.31 | 20.25 | 19.17 | 19.31 | 22.25 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 18.14 | 18.29 | 21.23 | 20.14 | 20.29 | 23.23 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 18.37 | 18.48 | 21.44 | 20.37 | 20.48 | 23.44 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 18.32 | 18.49 | 21.42 | 20.32 | 20.49 | 23.42 | <=30 | Pass |
| CP-OFDM 64 QAM                                                                                                                                                             | 1700   | Outer_Full      | 16.71 | 16.81 | 19.77 | 18.71 | 18.81 | 21.77 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 16.74 | 16.84 | 19.80 | 18.74 | 18.84 | 21.80 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 16.87 | 16.92 | 19.90 | 18.87 | 18.92 | 21.91 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 16.88 | 17.03 | 19.96 | 18.88 | 19.03 | 21.97 | <=30 | Pass |
|                                                                                                                                                                            | 1702.5 | Outer_Full      | 16.57 | 16.72 | 19.66 | 18.57 | 18.72 | 21.66 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 16.61 | 16.76 | 19.69 | 18.61 | 18.76 | 21.70 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 16.77 | 16.87 | 19.83 | 18.77 | 18.87 | 21.83 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 16.82 | 17.01 | 19.93 | 18.82 | 19.01 | 21.93 | <=30 | Pass |
|                                                                                                                                                                            | 1705   | Outer_Full      | 16.63 | 16.78 | 19.72 | 18.63 | 18.78 | 21.72 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 16.72 | 16.87 | 19.81 | 18.72 | 18.87 | 21.81 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 16.89 | 16.99 | 19.95 | 18.89 | 18.99 | 21.95 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 16.83 | 17.00 | 19.93 | 18.83 | 19.00 | 21.93 | <=30 | Pass |
| CP-OFDM 256 QAM                                                                                                                                                            | 1700   | Outer_Full      | 13.80 | 13.90 | 16.86 | 15.80 | 15.90 | 18.86 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 13.78 | 13.88 | 16.84 | 15.78 | 15.88 | 18.84 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 13.92 | 13.97 | 16.95 | 15.92 | 15.97 | 18.96 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 13.88 | 14.03 | 16.96 | 15.88 | 16.03 | 18.97 | <=30 | Pass |
|                                                                                                                                                                            | 1702.5 | Outer_Full      | 13.67 | 13.81 | 16.75 | 15.67 | 15.81 | 18.75 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 13.69 | 13.84 | 16.77 | 15.69 | 15.84 | 18.78 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 13.80 | 13.90 | 16.86 | 15.80 | 15.90 | 18.86 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 13.63 | 13.81 | 16.73 | 15.63 | 15.81 | 18.73 | <=30 | Pass |
|                                                                                                                                                                            | 1705   | Outer_Full      | 13.72 | 13.86 | 16.80 | 15.72 | 15.86 | 18.80 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 13.75 | 13.90 | 16.83 | 15.75 | 15.90 | 18.84 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 13.87 | 13.97 | 16.93 | 15.87 | 15.97 | 18.93 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 13.90 | 14.07 | 17.00 | 15.90 | 16.07 | 19.00 | <=30 | Pass |
| Note1: Antenna Gain: Ant1: 2.00dBi; Ant2: 2.00dBi;<br>Note2: EIRP Ant_1=Conducted Power_1+Ant Gain_1 / EIRP Ant_2=Conducted Power_2+Ant Gain_2 / Sum=EIRP Ant_1+EIRP Ant_2 |        |                 |       |       |       |       |       |       |      |      |

## 1.1.6 15k\_MIMO\_15MHz\_NTNV\_EIRP

| 5G NR n70 SCS=15kHz MIMO 15MHz 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               | 1702.5          | Outer_Full      | 19.66                | 19.80 | 22.74 | 21.66     | 21.80 | 24.74 | <=30  | Pass    |
|                                    |                 | Inner_Full      | 20.20                | 20.34 | 23.28 | 22.20     | 22.34 | 25.28 | <=30  | Pass    |
|                                    |                 | Inner_1RB_Left  | 20.27                | 20.33 | 23.31 | 22.27     | 22.33 | 25.31 | <=30  | Pass    |
|                                    |                 | Inner_1RB_Right | 20.25                | 20.44 | 23.36 | 22.25     | 22.44 | 25.36 | <=30  | Pass    |
| DFT-s-OFDM QPSK                    | 1702.5          | Outer_Full      | 19.22                | 19.35 | 22.30 | 21.22     | 21.35 | 24.30 | <=30  | Pass    |

|                                                                                                                                                                            |        |                 |       |       |       |       |       |       |      |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|-------|-------|-------|-------|-------|-------|------|------|
|                                                                                                                                                                            |        | Inner_Full      | 20.21 | 20.35 | 23.29 | 22.21 | 22.35 | 25.29 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 20.24 | 20.31 | 23.28 | 22.24 | 22.31 | 25.29 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 20.18 | 20.37 | 23.28 | 22.18 | 22.37 | 25.29 | <=30 | Pass |
| DFT-s-OFDM 16 QAM                                                                                                                                                          | 1702.5 | Outer_Full      | 18.26 | 18.39 | 21.34 | 20.26 | 20.39 | 23.34 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 19.27 | 19.41 | 22.35 | 21.27 | 21.41 | 24.35 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 19.34 | 19.41 | 22.38 | 21.34 | 21.41 | 24.39 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 19.21 | 19.40 | 22.32 | 21.21 | 21.40 | 24.32 | <=30 | Pass |
| DFT-s-OFDM 64 QAM                                                                                                                                                          | 1702.5 | Outer_Full      | 17.76 | 17.89 | 20.84 | 19.76 | 19.89 | 22.84 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 17.79 | 17.93 | 20.87 | 19.79 | 19.93 | 22.87 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 17.79 | 17.86 | 20.83 | 19.79 | 19.86 | 22.84 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 17.75 | 17.94 | 20.85 | 19.75 | 19.94 | 22.86 | <=30 | Pass |
| DFT-s-OFDM 256 QAM                                                                                                                                                         | 1702.5 | Outer_Full      | 15.87 | 16.01 | 18.95 | 17.87 | 18.01 | 20.95 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 15.91 | 16.05 | 18.99 | 17.91 | 18.05 | 20.99 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 16.16 | 16.23 | 19.20 | 18.16 | 18.23 | 21.21 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 16.14 | 16.34 | 19.25 | 18.14 | 18.34 | 21.25 | <=30 | Pass |
| CP-OFDM QPSK                                                                                                                                                               | 1702.5 | Outer_Full      | 17.25 | 17.39 | 20.33 | 19.25 | 19.39 | 22.33 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 18.77 | 18.91 | 21.85 | 20.77 | 20.91 | 23.85 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 18.77 | 18.84 | 21.82 | 20.77 | 20.84 | 23.82 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 18.61 | 18.80 | 21.72 | 20.61 | 20.80 | 23.72 | <=30 | Pass |
| CP-OFDM 16 QAM                                                                                                                                                             | 1702.5 | Outer_Full      | 17.21 | 17.35 | 20.29 | 19.21 | 19.35 | 22.29 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 18.26 | 18.40 | 21.34 | 20.26 | 20.40 | 23.34 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 18.35 | 18.42 | 21.40 | 20.35 | 20.42 | 23.40 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 18.22 | 18.41 | 21.32 | 20.22 | 20.41 | 23.33 | <=30 | Pass |
| CP-OFDM 64 QAM                                                                                                                                                             | 1702.5 | Outer_Full      | 16.71 | 16.84 | 19.79 | 18.71 | 18.84 | 21.79 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 16.78 | 16.92 | 19.86 | 18.78 | 18.92 | 21.86 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 16.85 | 16.92 | 19.90 | 18.85 | 18.92 | 21.90 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 16.72 | 16.91 | 19.83 | 18.72 | 18.91 | 21.83 | <=30 | Pass |
| CP-OFDM 256 QAM                                                                                                                                                            | 1702.5 | Outer_Full      | 13.78 | 13.92 | 16.86 | 15.78 | 15.92 | 18.86 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_Full      | 13.73 | 13.87 | 16.81 | 15.73 | 15.87 | 18.81 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Left  | 13.84 | 13.91 | 16.89 | 15.84 | 15.91 | 18.89 | <=30 | Pass |
|                                                                                                                                                                            |        | Inner_1RB_Right | 13.80 | 13.99 | 16.90 | 15.80 | 15.99 | 18.91 | <=30 | Pass |
| Note1: Antenna Gain: Ant1: 2.00dBi; Ant2: 2.00dBi;<br>Note2: EIRP Ant_1=Conducted Power_1+Ant Gain_1 / EIRP Ant_2=Conducted Power_2+Ant Gain_2 / Sum=EIRP Ant_1+EIRP Ant_2 |        |                 |       |       |       |       |       |       |      |      |

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 15k\_SISO\_15MHz

| 5G NR n70 SCS=15kHz SISO 15MHz |                 |               |            |       |                  |                       |                |         |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK           | 1702.5          | Outer_Full    | 20         | LV    | -3.30            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | 2.20             | 0.0013                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -3.00            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -1.60            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -1.80            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -0.80            | -0.0005               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | 3.50             | 0.0021                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | 2.40             | 0.0014                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | 3.90             | 0.0023                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | 2.20             | 0.0013                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 50         | NV    | 1.40             | 0.0008                | >=-2.5 & <=2.5 | Pass    |
| CP-OFDM QPSK                   | 1702.5          | Outer_Full    | 20         | LV    | -5.80            | -0.0034               | >=-2.5 & <=2.5 | Pass    |

|  |  |  |     |    |       |         |                          |      |
|--|--|--|-----|----|-------|---------|--------------------------|------|
|  |  |  |     | HV | -6.60 | -0.0039 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|  |  |  | -30 | NV | -6.70 | -0.0039 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|  |  |  | -20 | NV | -5.70 | -0.0033 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|  |  |  | -10 | NV | -5.40 | -0.0032 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|  |  |  | 0   | NV | -6.50 | -0.0038 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|  |  |  | 10  | NV | -6.30 | -0.0037 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|  |  |  | 20  | NV | -4.70 | -0.0028 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|  |  |  | 30  | NV | -5.80 | -0.0034 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|  |  |  | 40  | NV | -4.50 | -0.0026 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|  |  |  | 50  | NV | -4.60 | -0.0027 | $\geq -2.5$ & $\leq 2.5$ | Pass |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 15k\_SISO\_5MHz\_NTNV

| 5G NR n70 SCS=15kHz SISO 5MHz NTN |                 |               |                     |                      |             |         |
|-----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK              | 1697.5          | Outer_Full    | 4.54                | 4.99                 | /           | Pass    |
|                                   | 1702.5          | Outer_Full    | 4.55                | 4.99                 | /           | Pass    |
|                                   | 1707.5          | Outer_Full    | 4.54                | 5.01                 | /           | Pass    |
| DFT-s-OFDM QPSK                   | 1697.5          | Outer_Full    | 4.51                | 4.95                 | /           | Pass    |
|                                   | 1702.5          | Outer_Full    | 4.51                | 4.96                 | /           | Pass    |
|                                   | 1707.5          | Outer_Full    | 4.51                | 4.96                 | /           | Pass    |
| DFT-s-OFDM 16 QAM                 | 1697.5          | Outer_Full    | 4.52                | 4.99                 | /           | Pass    |
|                                   | 1702.5          | Outer_Full    | 4.51                | 4.96                 | /           | Pass    |
|                                   | 1707.5          | Outer_Full    | 4.52                | 4.96                 | /           | Pass    |
| DFT-s-OFDM 64 QAM                 | 1697.5          | Outer_Full    | 4.53                | 5.00                 | /           | Pass    |
|                                   | 1702.5          | Outer_Full    | 4.54                | 5.02                 | /           | Pass    |
|                                   | 1707.5          | Outer_Full    | 4.52                | 4.99                 | /           | Pass    |
| DFT-s-OFDM 256 QAM                | 1697.5          | Outer_Full    | 4.53                | 5.04                 | /           | Pass    |
|                                   | 1702.5          | Outer_Full    | 4.53                | 4.98                 | /           | Pass    |
|                                   | 1707.5          | Outer_Full    | 4.55                | 4.98                 | /           | Pass    |
| CP-OFDM QPSK                      | 1697.5          | Outer_Full    | 4.53                | 4.99                 | /           | Pass    |
|                                   | 1702.5          | Outer_Full    | 4.53                | 4.97                 | /           | Pass    |
|                                   | 1707.5          | Outer_Full    | 4.55                | 4.98                 | /           | Pass    |
| CP-OFDM 16 QAM                    | 1697.5          | Outer_Full    | 4.53                | 5.00                 | /           | Pass    |
|                                   | 1702.5          | Outer_Full    | 4.52                | 5.01                 | /           | Pass    |
|                                   | 1707.5          | Outer_Full    | 4.52                | 4.98                 | /           | Pass    |
| CP-OFDM 64 QAM                    | 1697.5          | Outer_Full    | 4.54                | 5.00                 | /           | Pass    |
|                                   | 1702.5          | Outer_Full    | 4.54                | 4.99                 | /           | Pass    |
|                                   | 1707.5          | Outer_Full    | 4.54                | 5.01                 | /           | Pass    |
| CP-OFDM 256 QAM                   | 1697.5          | Outer_Full    | 4.51                | 4.95                 | /           | Pass    |
|                                   | 1702.5          | Outer_Full    | 4.52                | 5.00                 | /           | Pass    |
|                                   | 1707.5          | Outer_Full    | 4.52                | 4.99                 | /           | Pass    |

##### 3.1.2 15k\_SISO\_10MHz\_NTNV

| 5G NR n70 SCS=15kHz SISO 10MHz NTN |                 |               |                     |                      |             |         |
|------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK               | 1700            | Outer_Full    | 9.07                | 9.71                 | /           | Pass    |
|                                    | 1702.5          | Outer_Full    | 9.08                | 9.74                 | /           | Pass    |

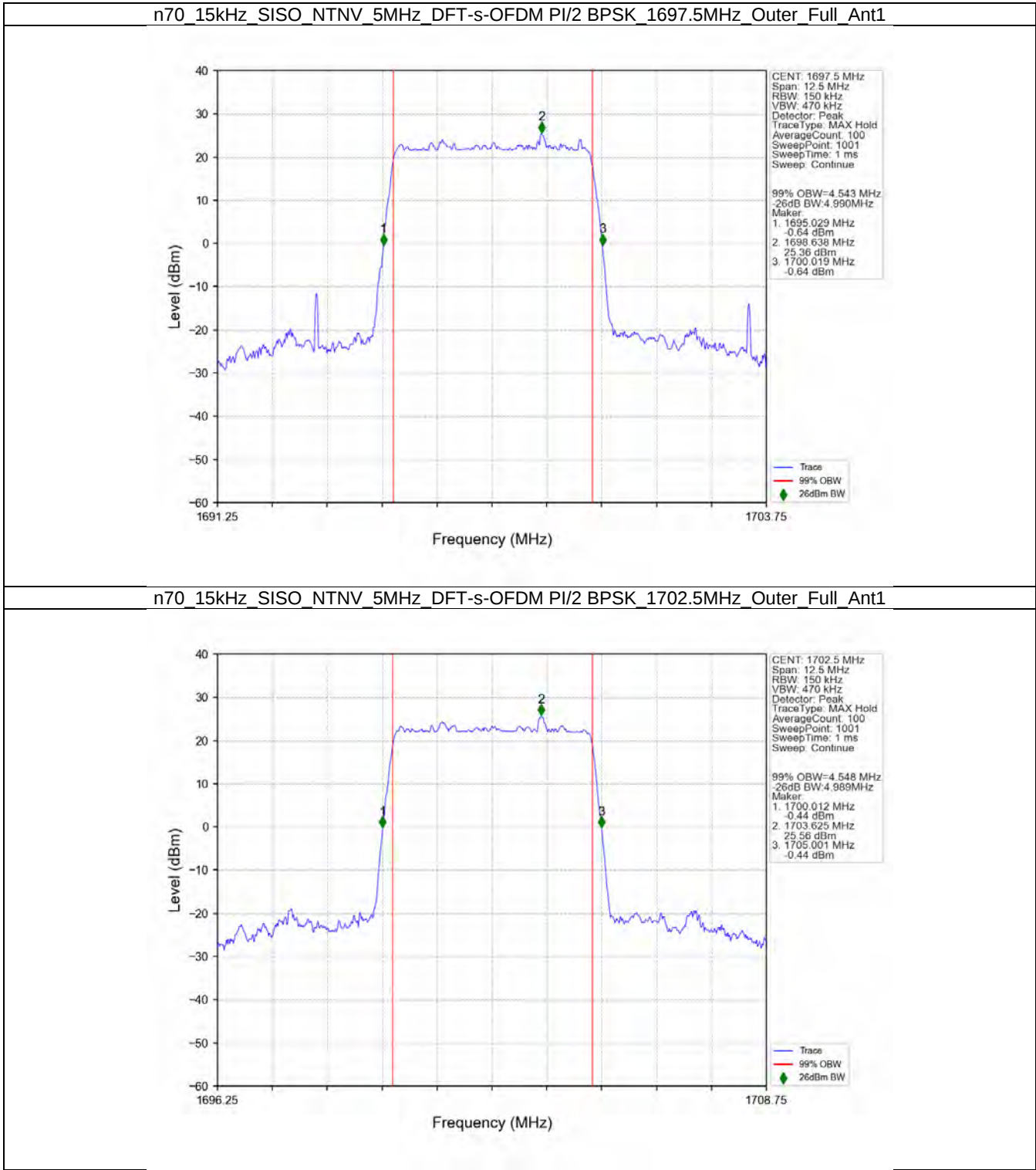
|                    |        |            |      |       |   |      |
|--------------------|--------|------------|------|-------|---|------|
|                    | 1705   | Outer_Full | 9.07 | 9.69  | / | Pass |
| DFT-s-OFDM QPSK    | 1700   | Outer_Full | 9.02 | 9.71  | / | Pass |
|                    | 1702.5 | Outer_Full | 9.02 | 9.70  | / | Pass |
|                    | 1705   | Outer_Full | 9.02 | 9.68  | / | Pass |
|                    | 1700   | Outer_Full | 9.07 | 9.71  | / | Pass |
| DFT-s-OFDM 16 QAM  | 1702.5 | Outer_Full | 9.07 | 9.74  | / | Pass |
|                    | 1705   | Outer_Full | 9.07 | 9.72  | / | Pass |
|                    | 1700   | Outer_Full | 9.03 | 9.75  | / | Pass |
| DFT-s-OFDM 64 QAM  | 1702.5 | Outer_Full | 9.03 | 9.73  | / | Pass |
|                    | 1705   | Outer_Full | 9.02 | 9.72  | / | Pass |
|                    | 1700   | Outer_Full | 9.04 | 9.70  | / | Pass |
| DFT-s-OFDM 256 QAM | 1702.5 | Outer_Full | 9.04 | 9.71  | / | Pass |
|                    | 1705   | Outer_Full | 9.05 | 9.74  | / | Pass |
|                    | 1700   | Outer_Full | 9.37 | 10.08 | / | Pass |
| CP-OFDM QPSK       | 1702.5 | Outer_Full | 9.37 | 10.10 | / | Pass |
|                    | 1705   | Outer_Full | 9.37 | 10.08 | / | Pass |
|                    | 1700   | Outer_Full | 9.39 | 10.10 | / | Pass |
| CP-OFDM 16 QAM     | 1702.5 | Outer_Full | 9.40 | 10.07 | / | Pass |
|                    | 1705   | Outer_Full | 9.38 | 10.06 | / | Pass |
|                    | 1700   | Outer_Full | 9.36 | 10.10 | / | Pass |
| CP-OFDM 64 QAM     | 1702.5 | Outer_Full | 9.35 | 10.07 | / | Pass |
|                    | 1705   | Outer_Full | 9.35 | 10.07 | / | Pass |
|                    | 1700   | Outer_Full | 9.37 | 10.10 | / | Pass |
| CP-OFDM 256 QAM    | 1702.5 | Outer_Full | 9.38 | 10.08 | / | Pass |
|                    | 1705   | Outer_Full | 9.36 | 10.10 | / | Pass |

### 3.1.3 15k\_SISO\_15MHz\_NTNV

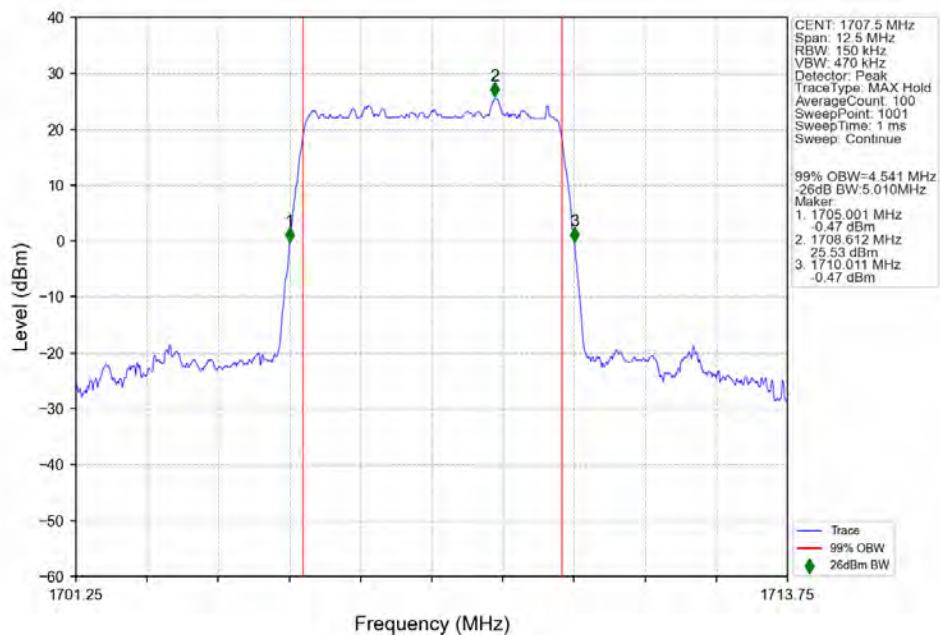
| 5G NR n70 SCS=15kHz SISO 15MHz NTN |                 |               |                     |                      |             |         |
|------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK               | 1702.5          | Outer_Full    | 13.61               | 14.64                | /           | Pass    |
| DFT-s-OFDM QPSK                    | 1702.5          | Outer_Full    | 13.56               | 14.60                | /           | Pass    |
| DFT-s-OFDM 16 QAM                  | 1702.5          | Outer_Full    | 13.64               | 14.62                | /           | Pass    |
| DFT-s-OFDM 64 QAM                  | 1702.5          | Outer_Full    | 13.54               | 14.59                | /           | Pass    |
| DFT-s-OFDM 256 QAM                 | 1702.5          | Outer_Full    | 13.55               | 14.58                | /           | Pass    |
| CP-OFDM QPSK                       | 1702.5          | Outer_Full    | 14.31               | 16.11                | /           | Pass    |
| CP-OFDM 16 QAM                     | 1702.5          | Outer_Full    | 14.31               | 16.49                | /           | Pass    |
| CP-OFDM 64 QAM                     | 1702.5          | Outer_Full    | 14.27               | 15.41                | /           | Pass    |
| CP-OFDM 256 QAM                    | 1702.5          | Outer_Full    | 14.28               | 15.29                | /           | Pass    |

3.2 Test Graph

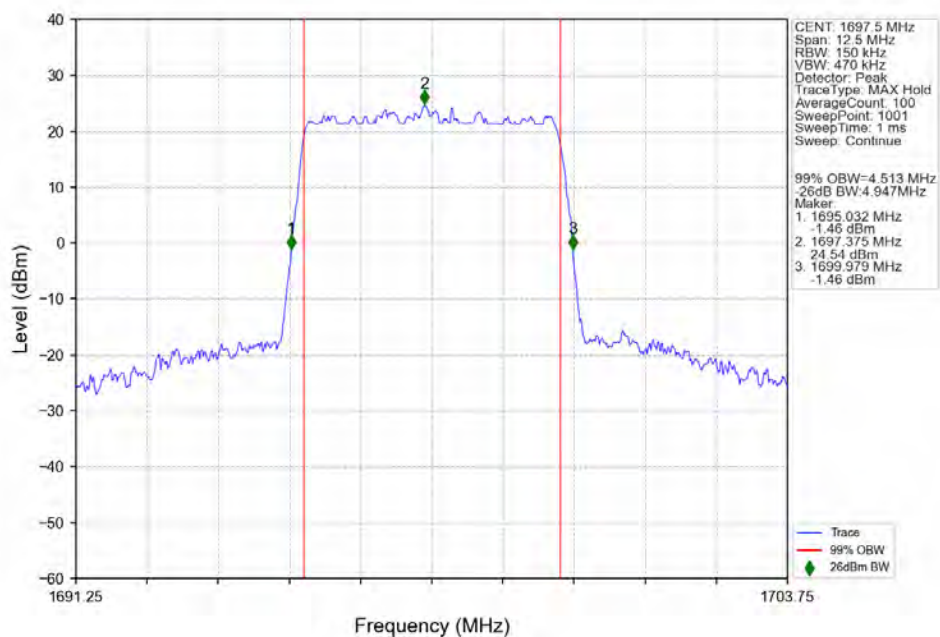
3.2.1 15k\_SISO\_5MHz\_NTNV



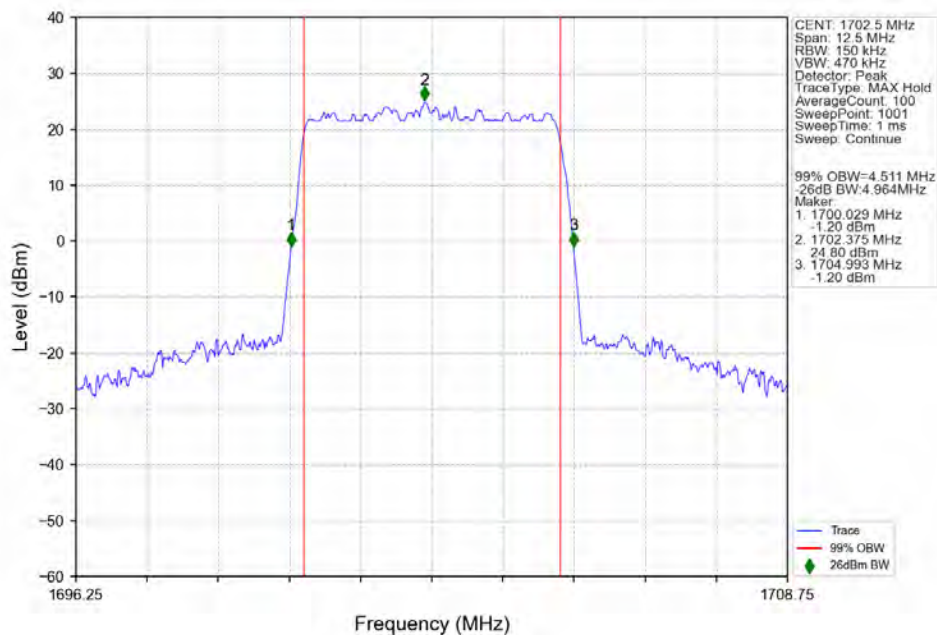
n70 15kHz SISO NTN 5MHz DFT-s-OFDM PI/2 BPSK 1707.5MHz Outer Full Ant1



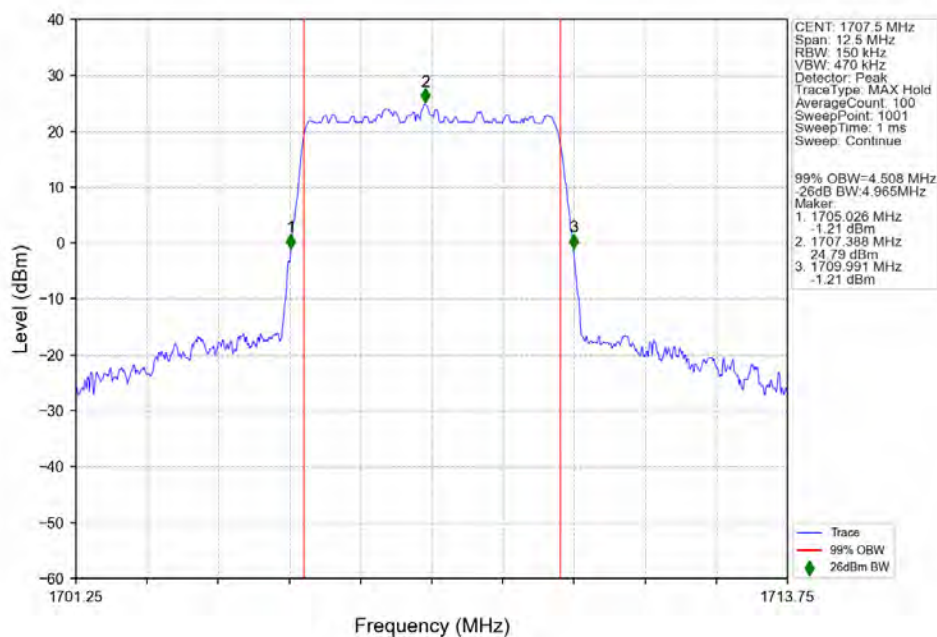
n70 15kHz SISO NTN 5MHz DFT-s-OFDM QPSK 1697.5MHz Outer Full Ant1



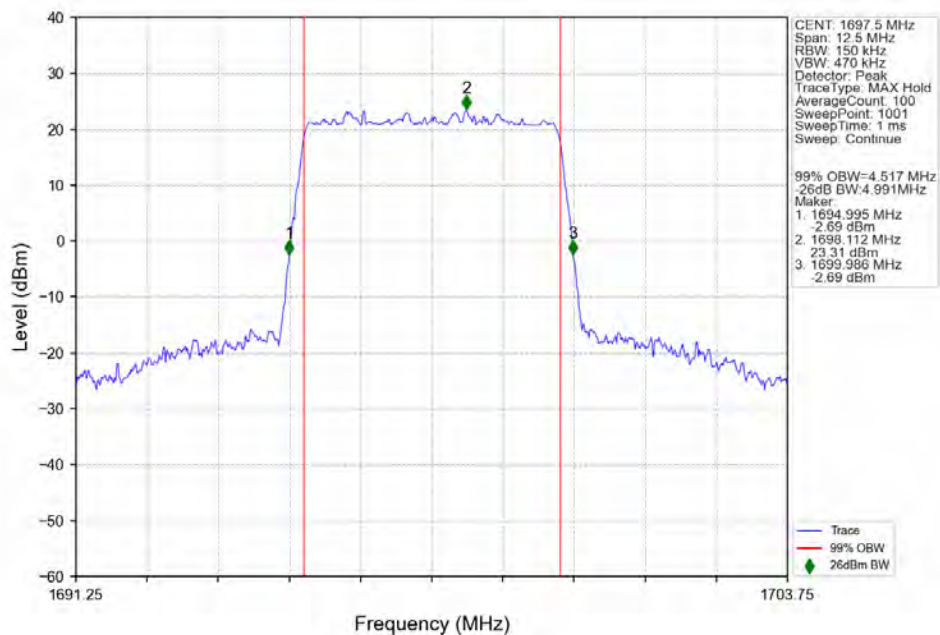
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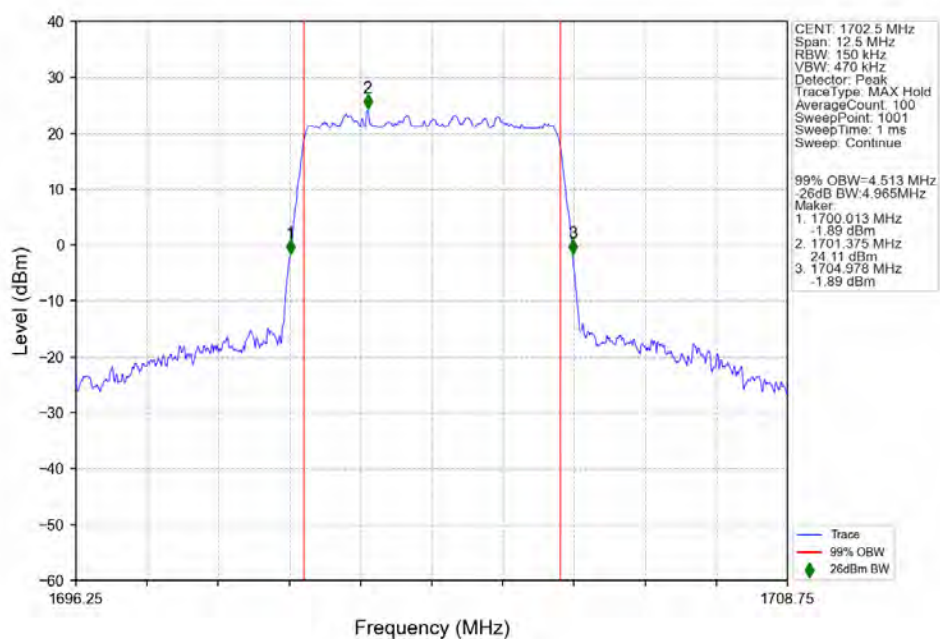
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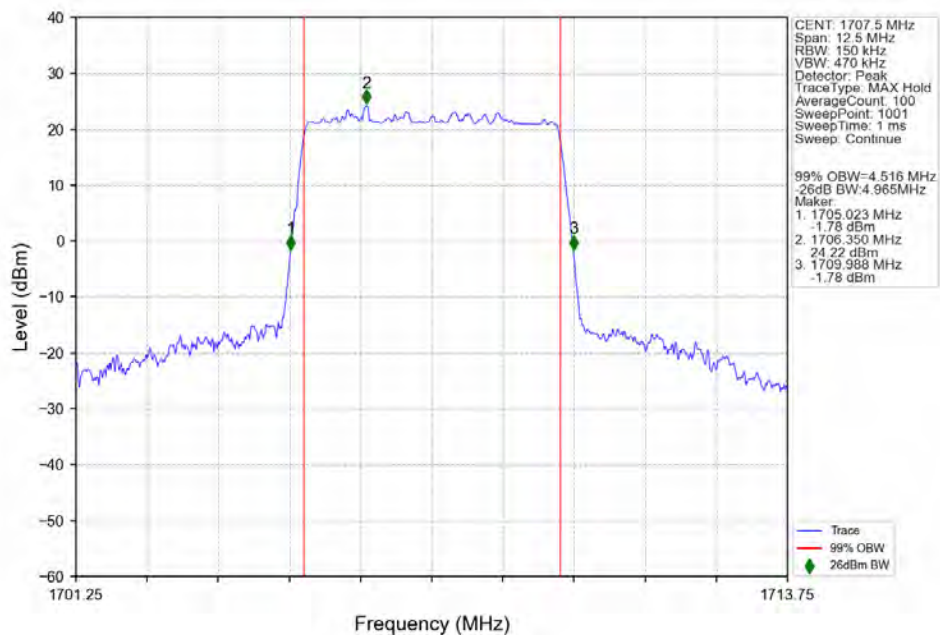
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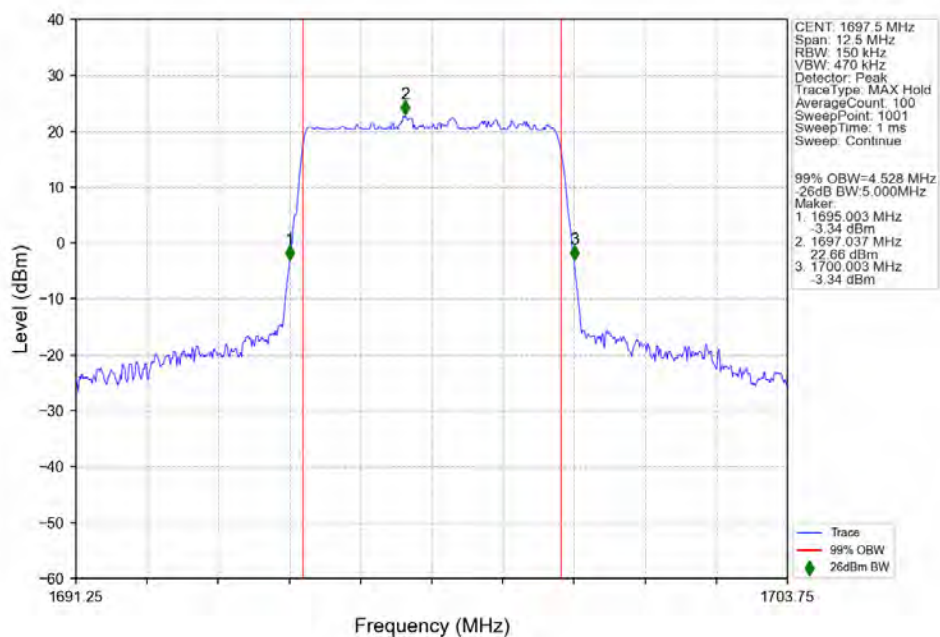
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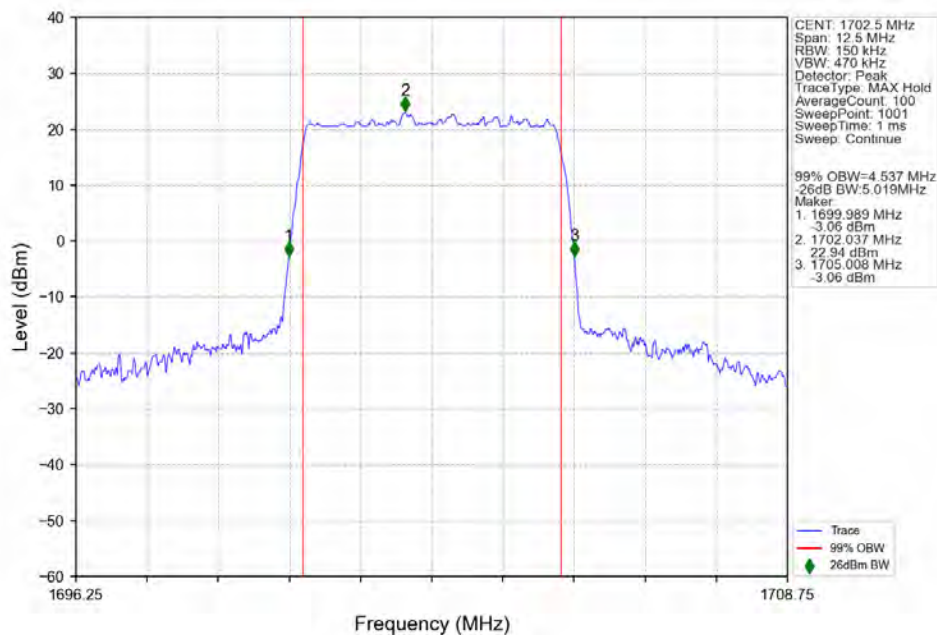
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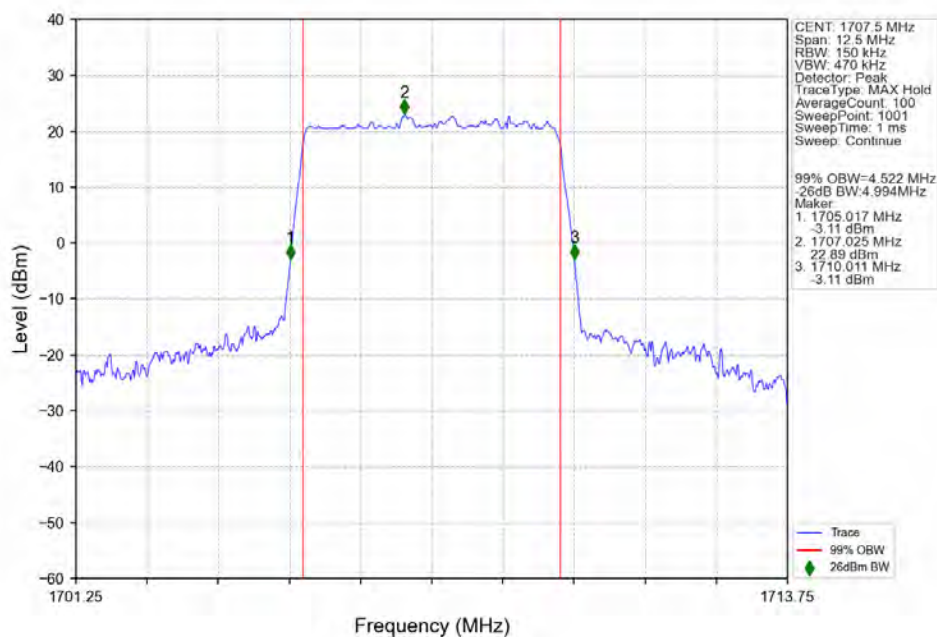
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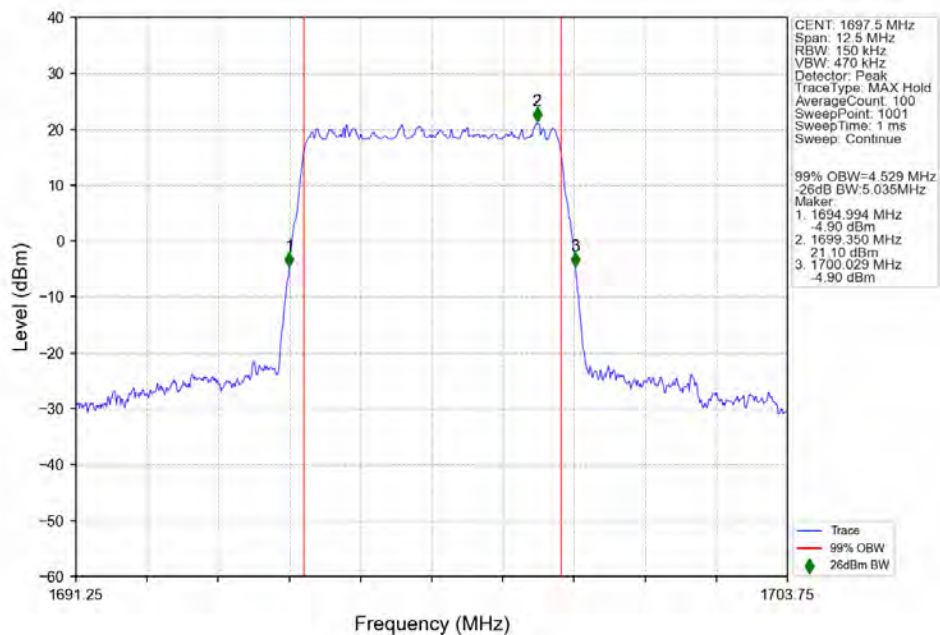
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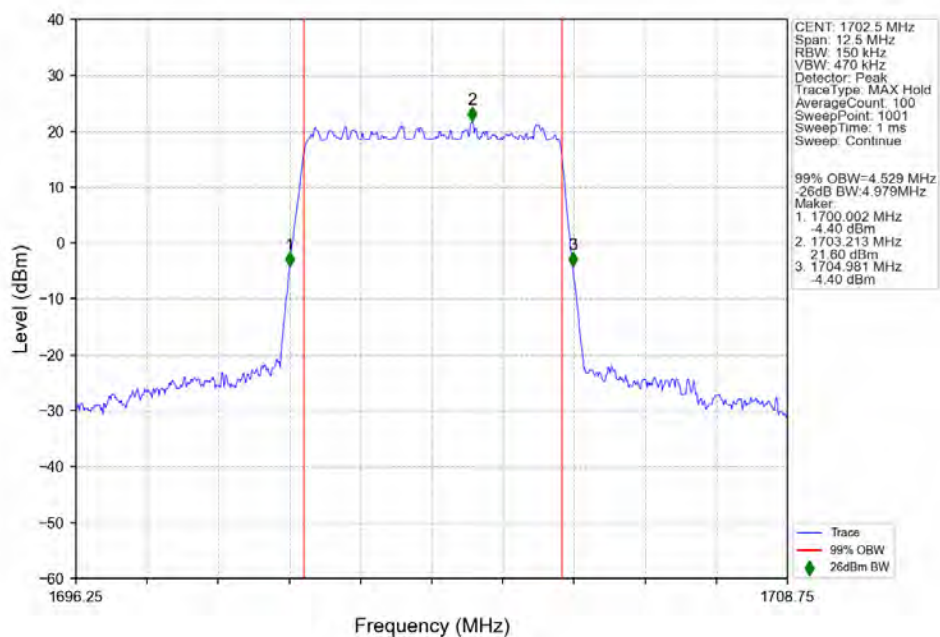
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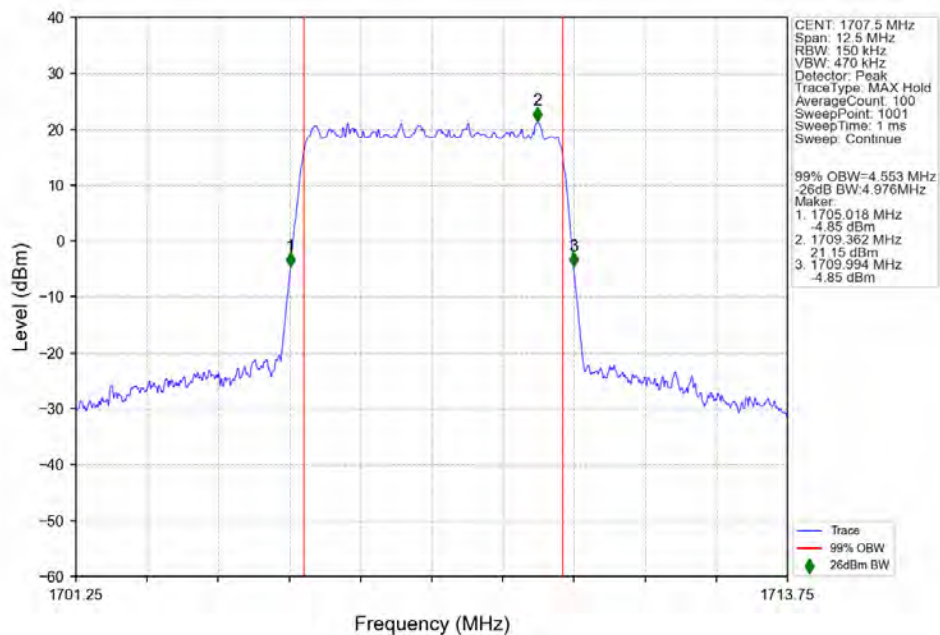
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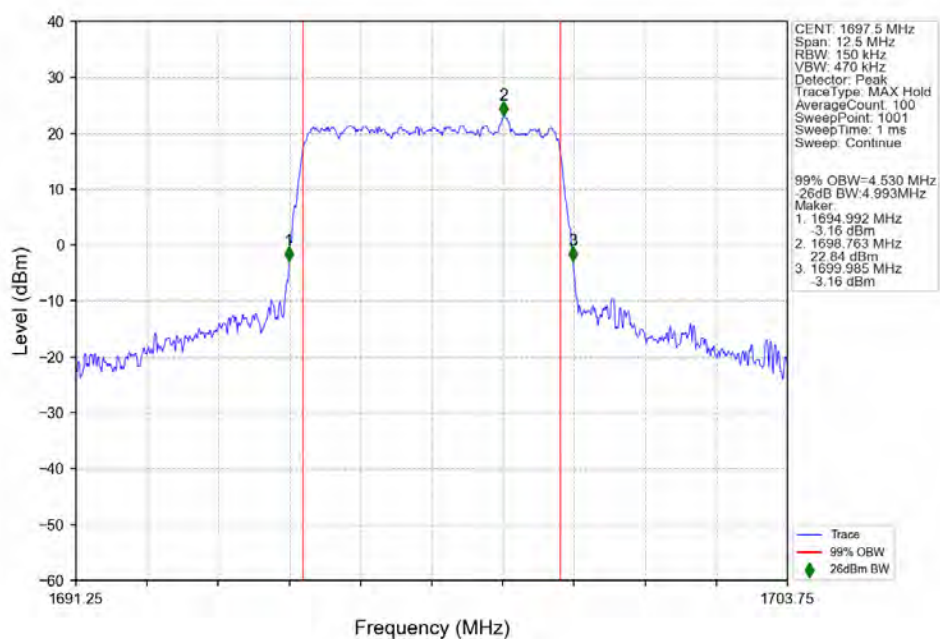
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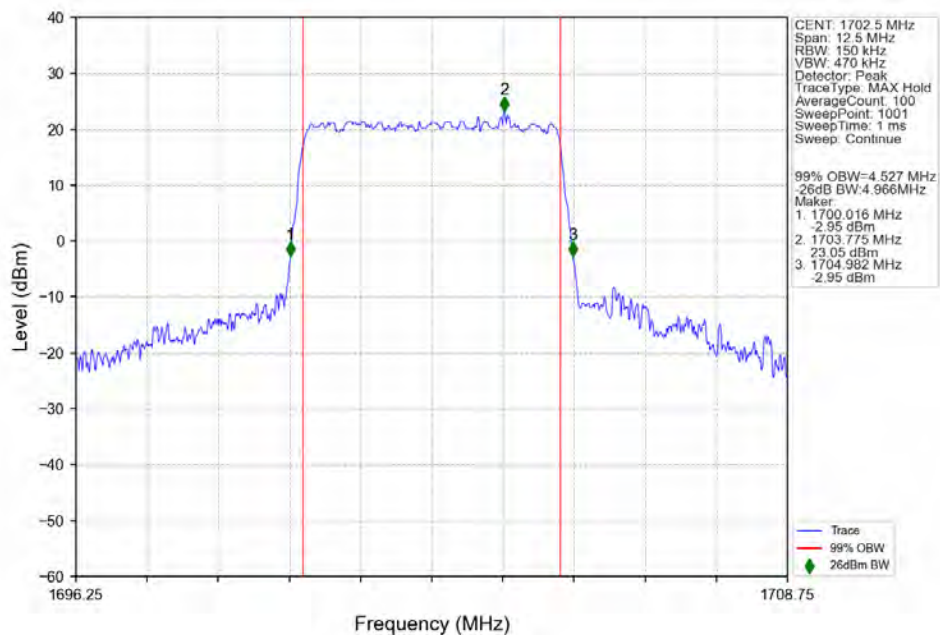
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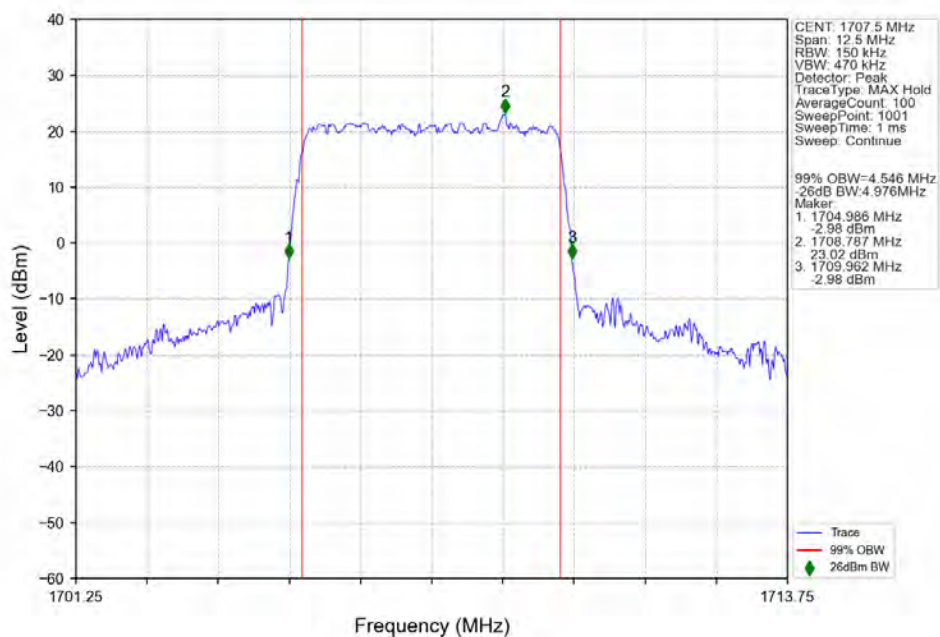
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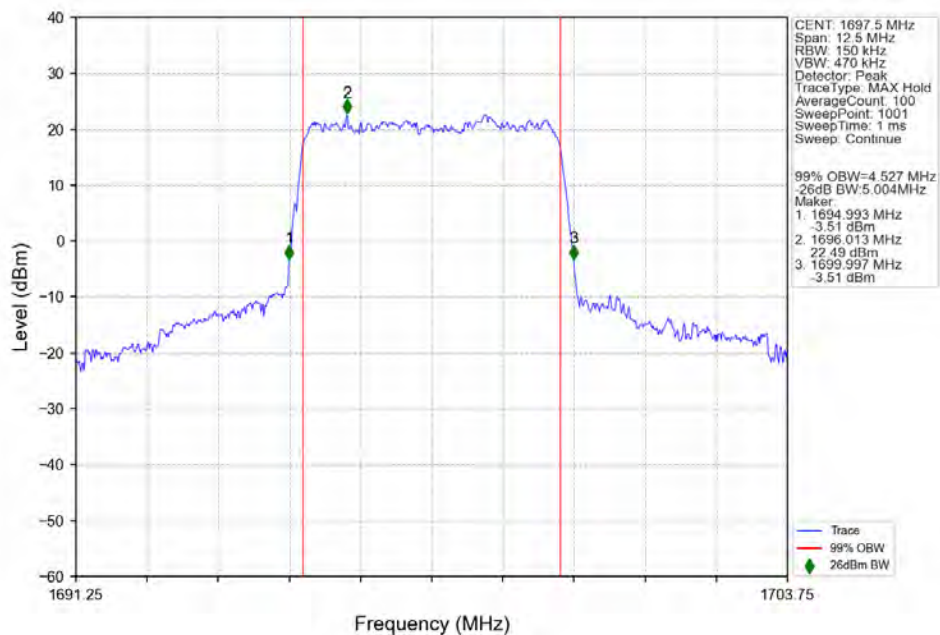
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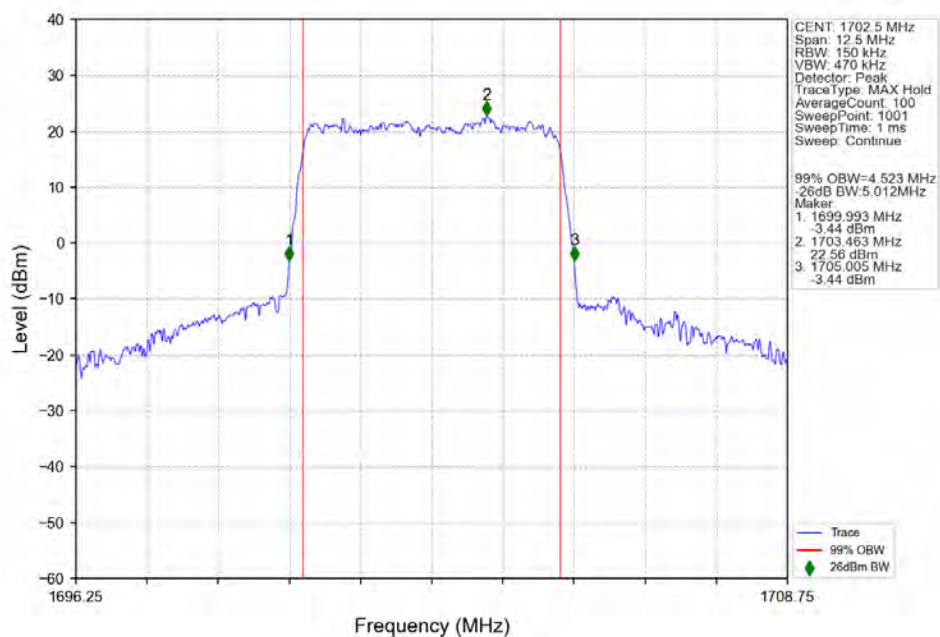
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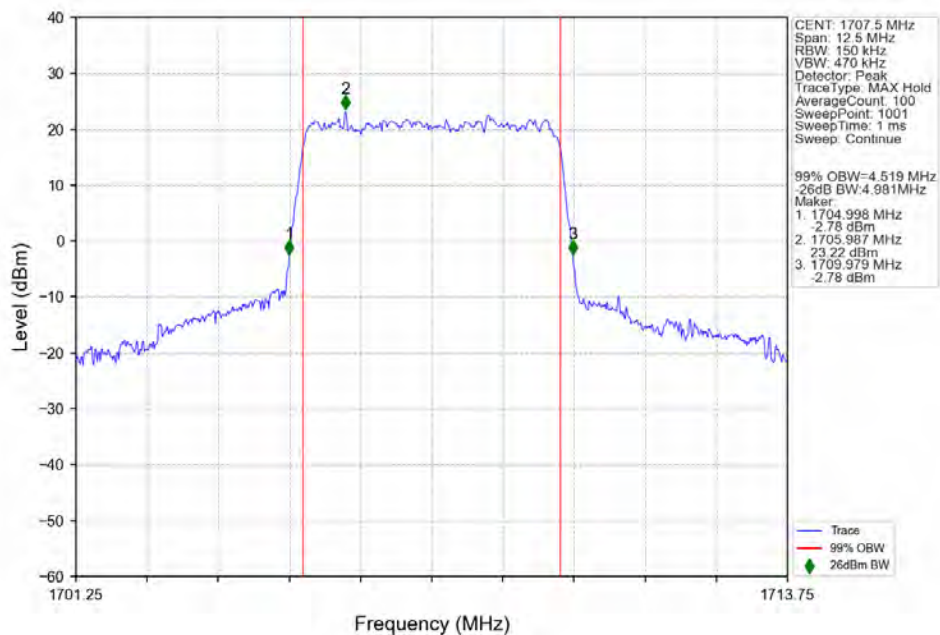
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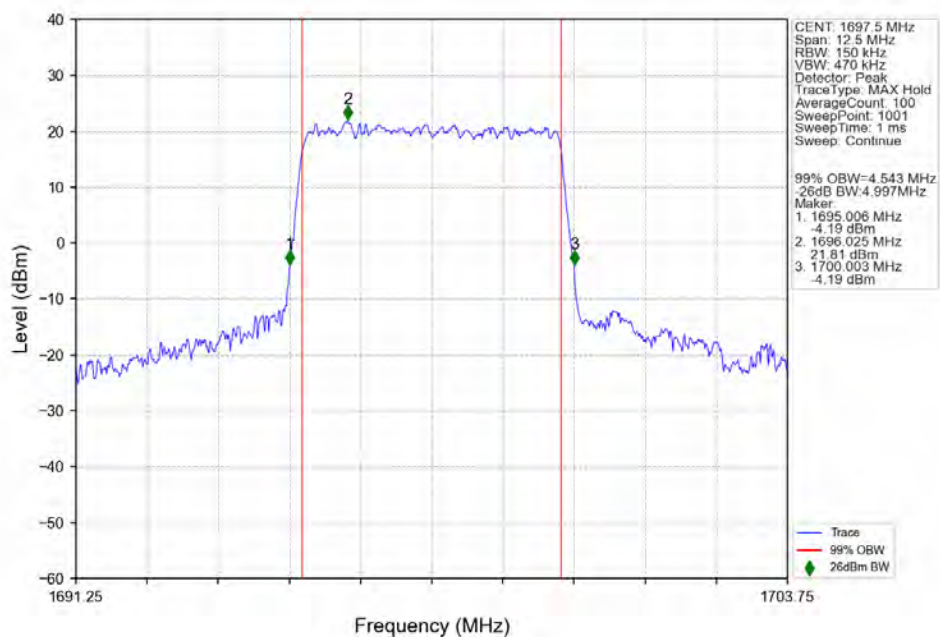
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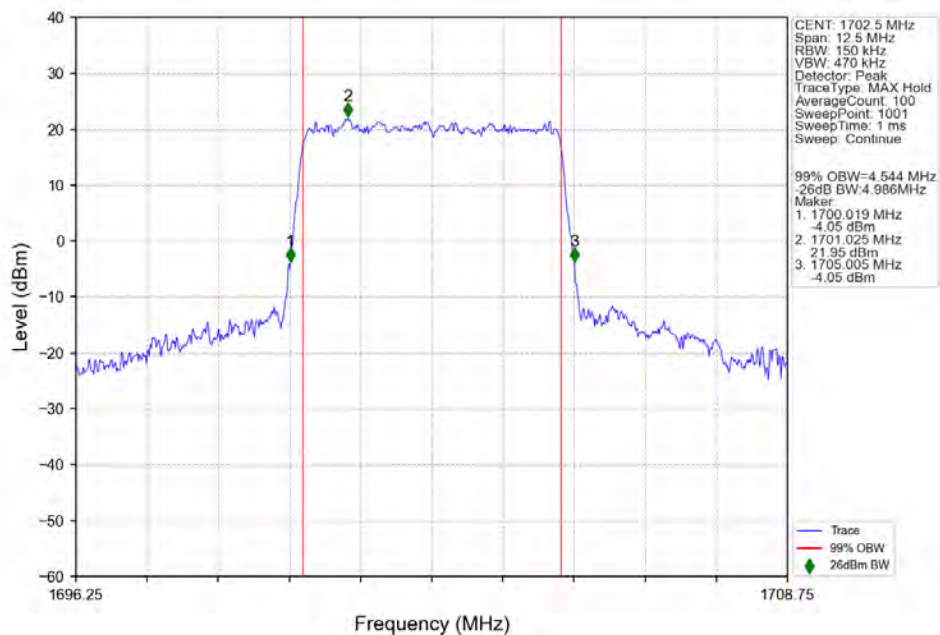
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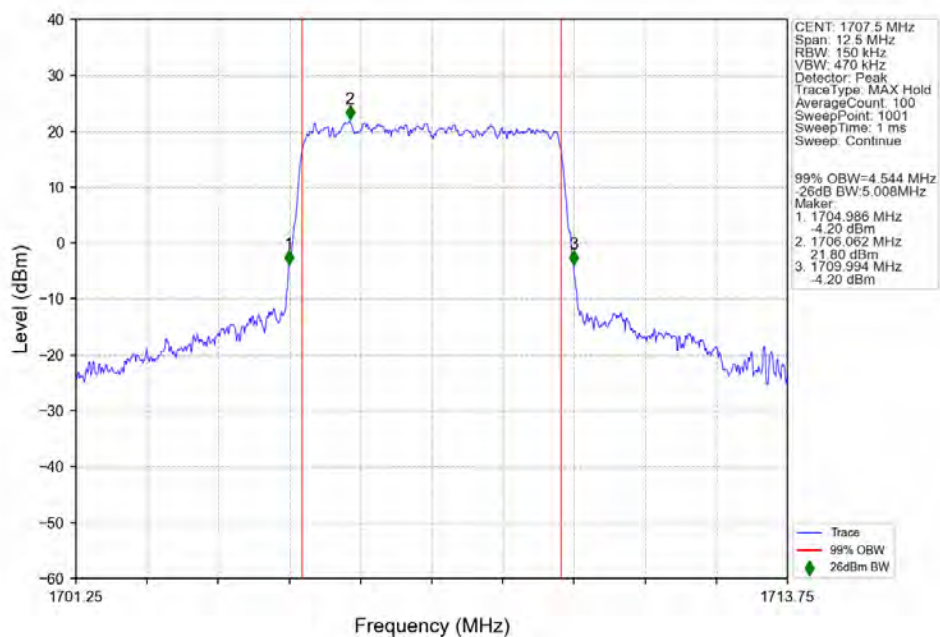
n70 15kHz SISO NTV 5MHz CP-OFDM 64 QAM 1697.5MHz Outer Full Ant1



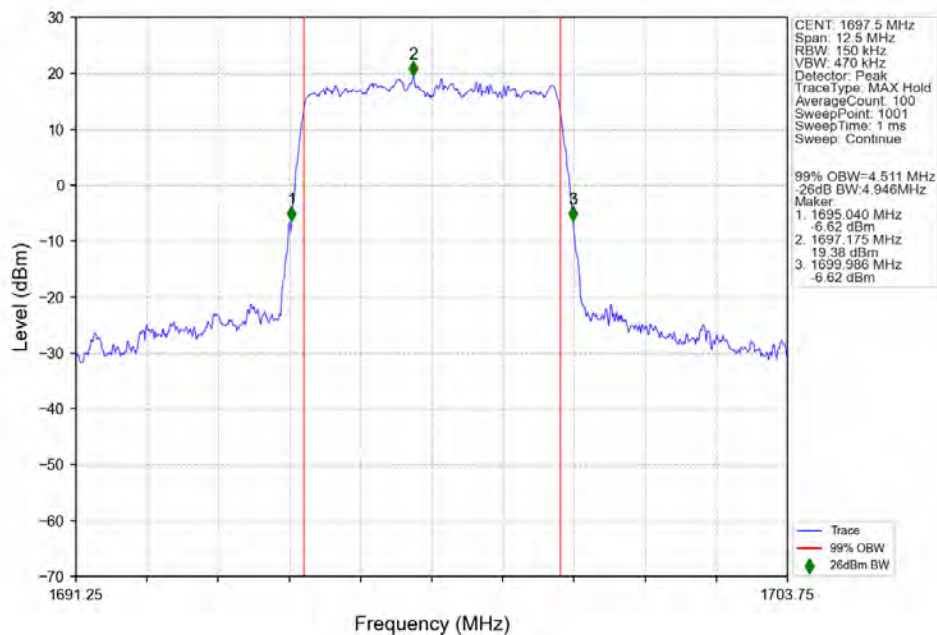
n70 15kHz SISO NTV 5MHz CP-OFDM 64 QAM 1702.5MHz Outer Full Ant1



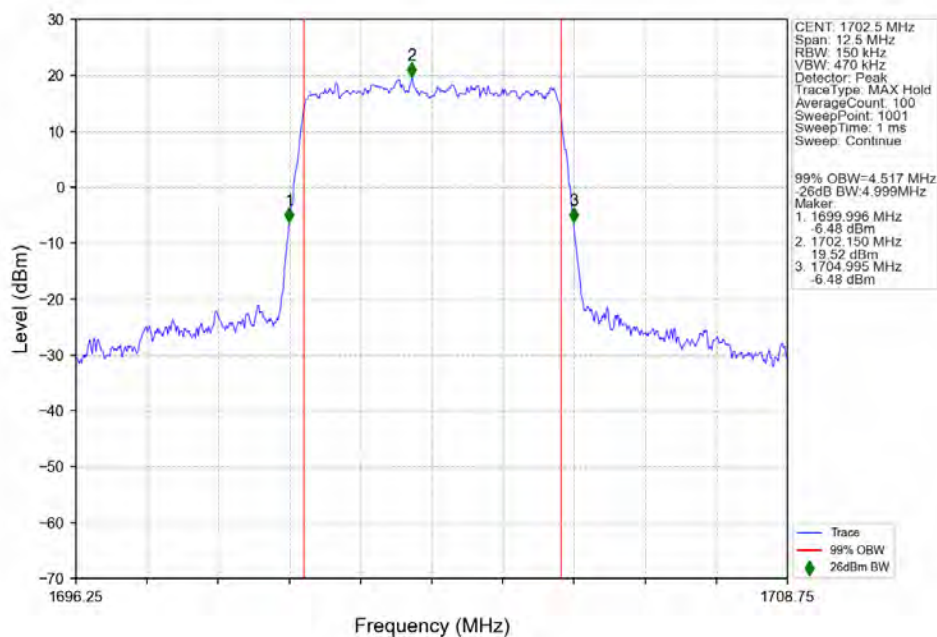
n70 15kHz SISO NTV 5MHz CP-OFDM 64 QAM 1707.5MHz Outer Full Ant1

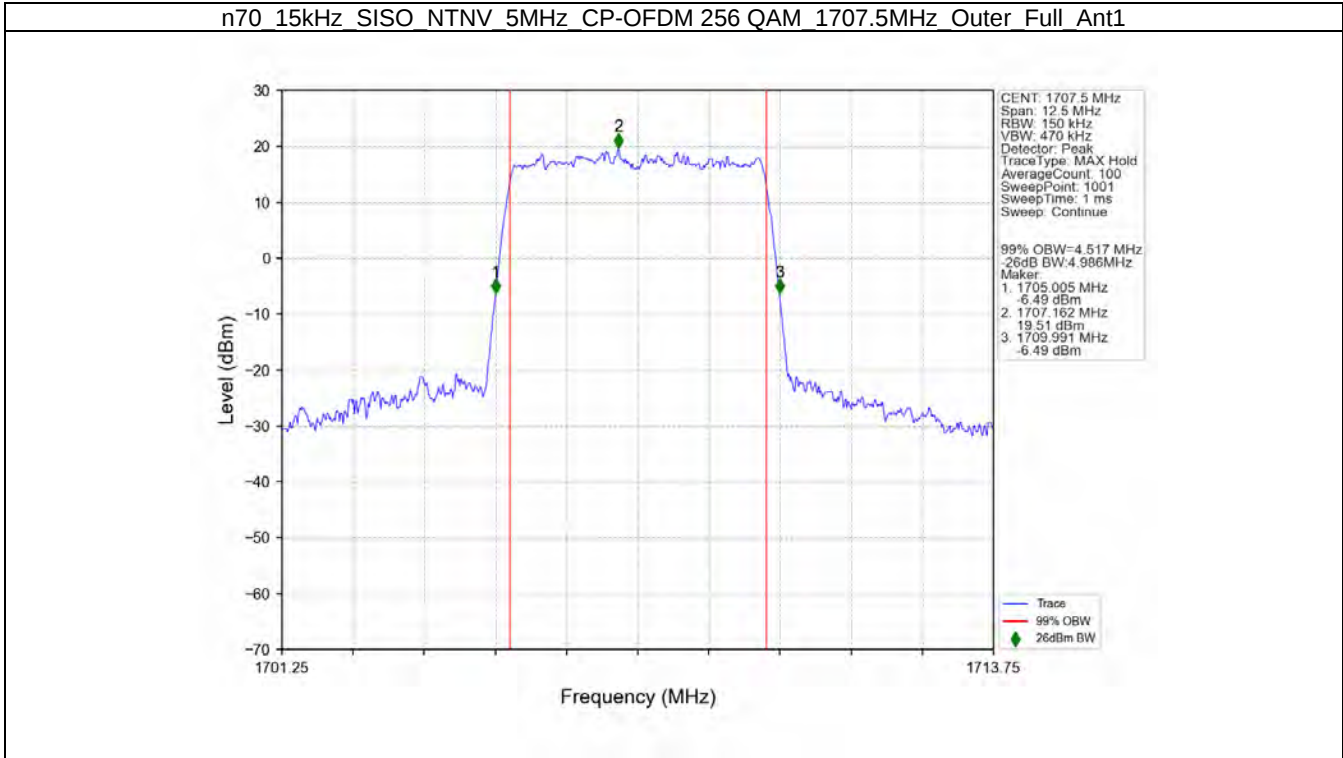


n70 15kHz SISO NTN 5MHz CP-OFDM 256 QAM 1697.5MHz Outer Full Ant1



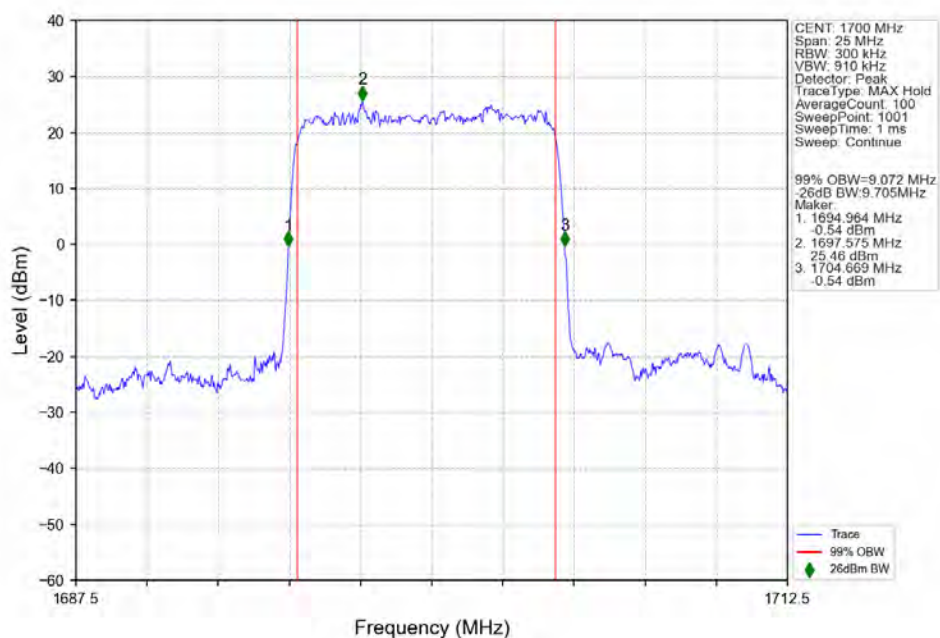
n70 15kHz SISO NTN 5MHz CP-OFDM 256 QAM 1702.5MHz Outer Full Ant1



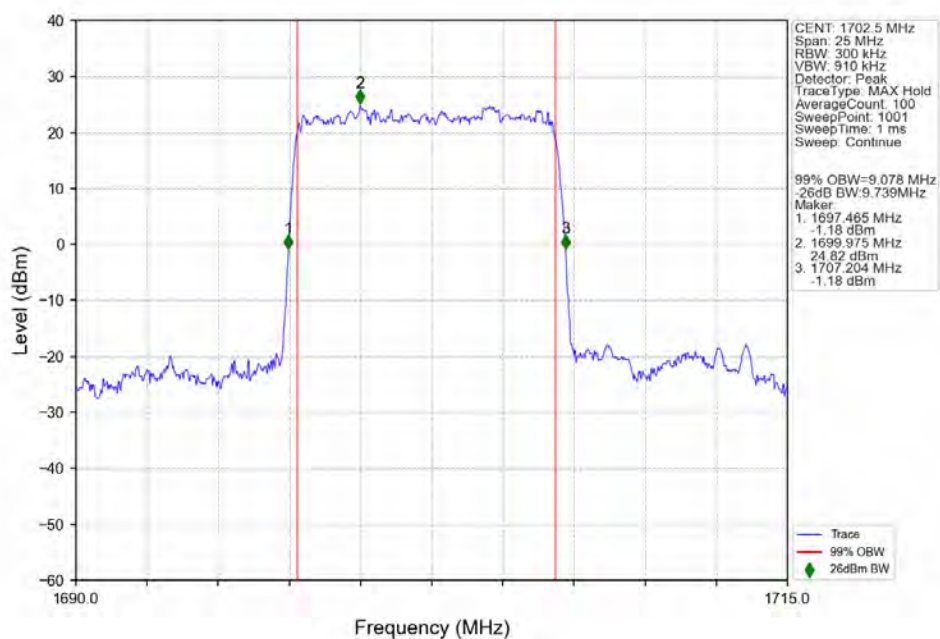


## 3.2.2 15k\_SISO\_10MHz\_NTNV

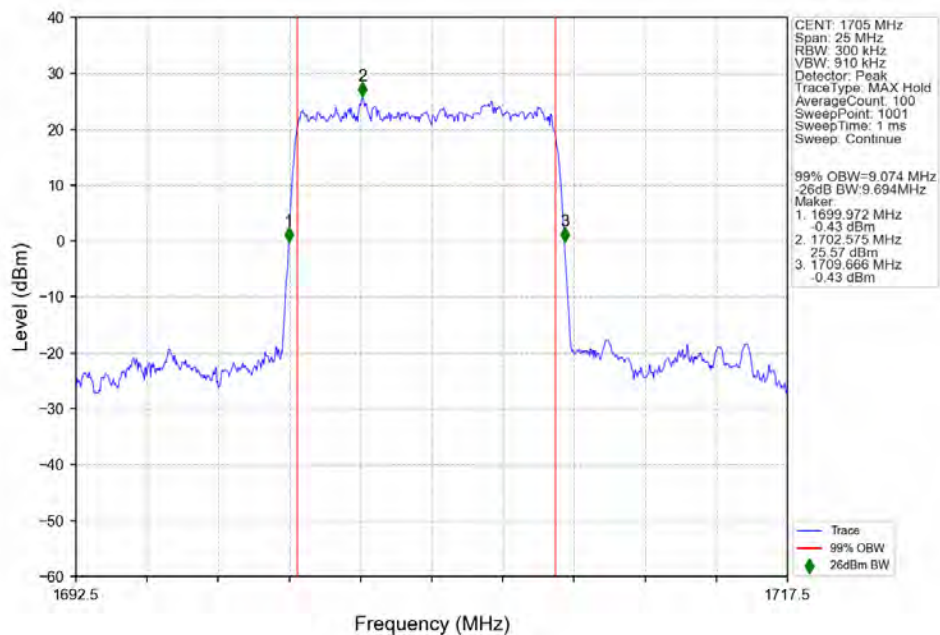
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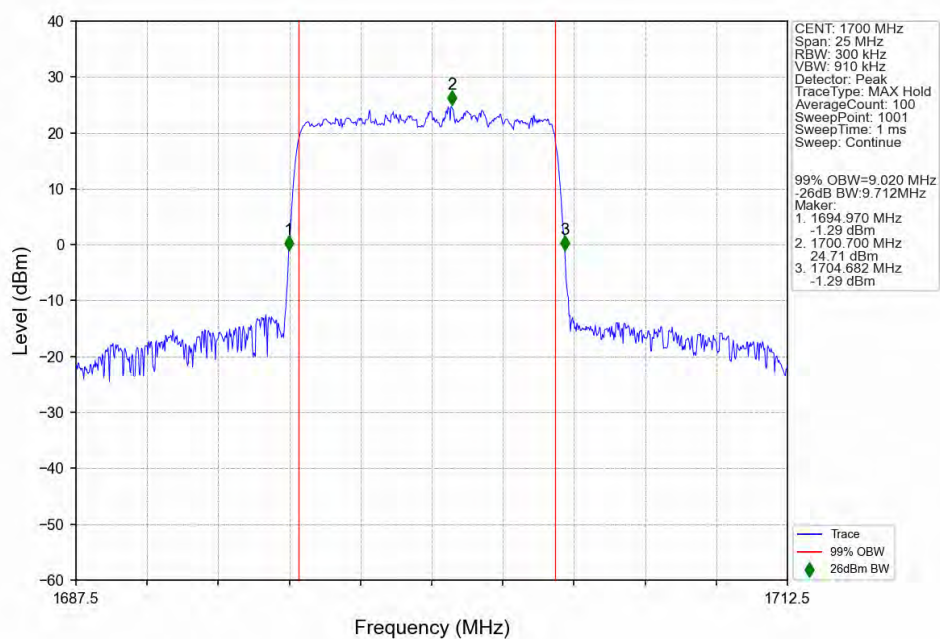
n70\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_1702.5MHz\_Outer\_Full\_Ant1



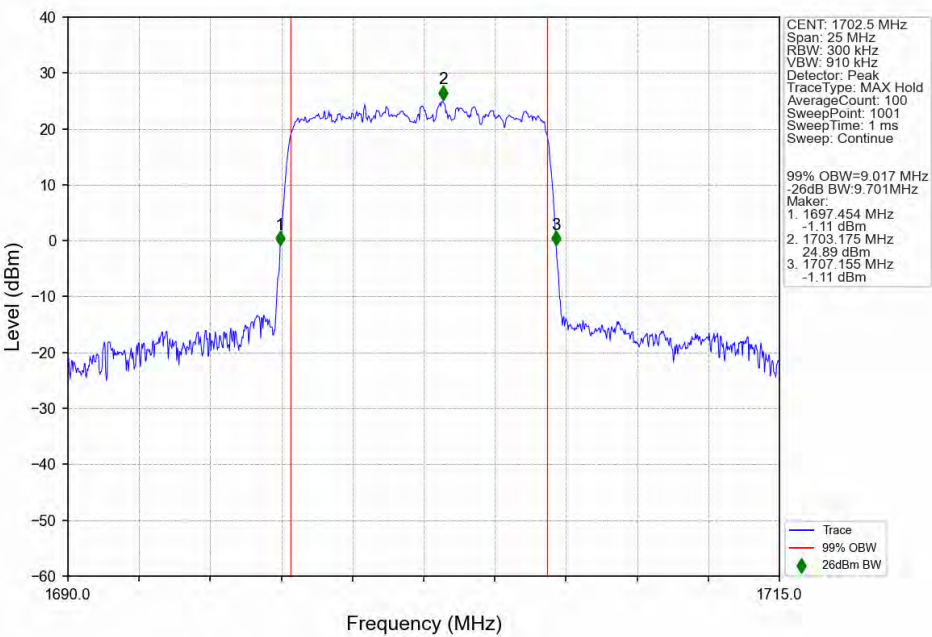
n70 15kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 1705MHz Outer Full Ant1



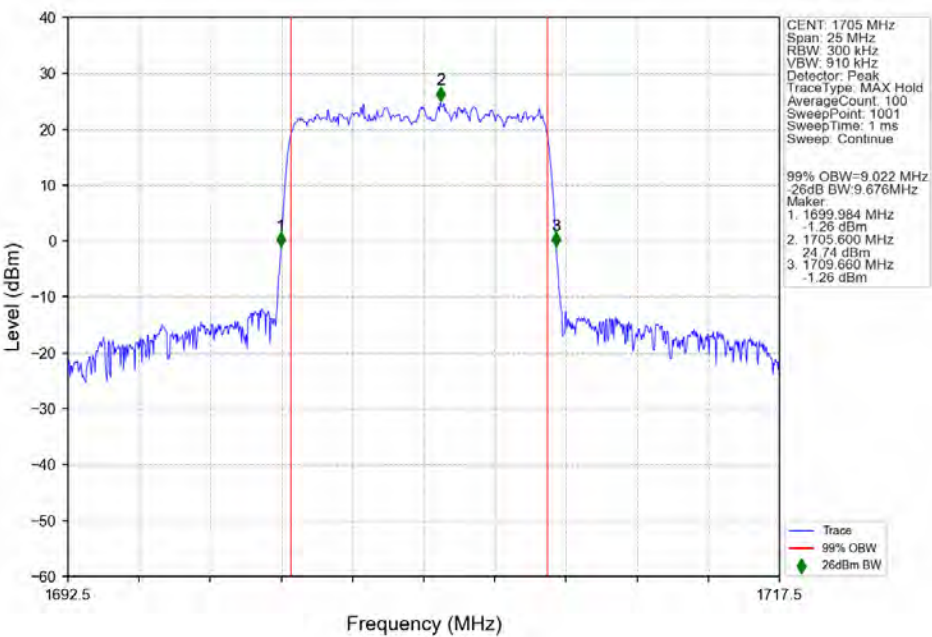
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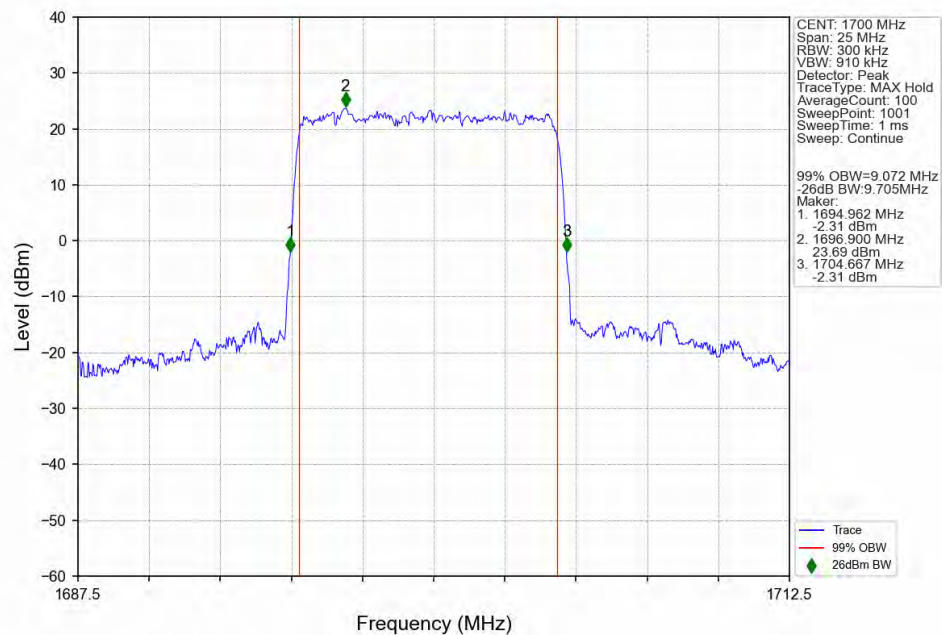
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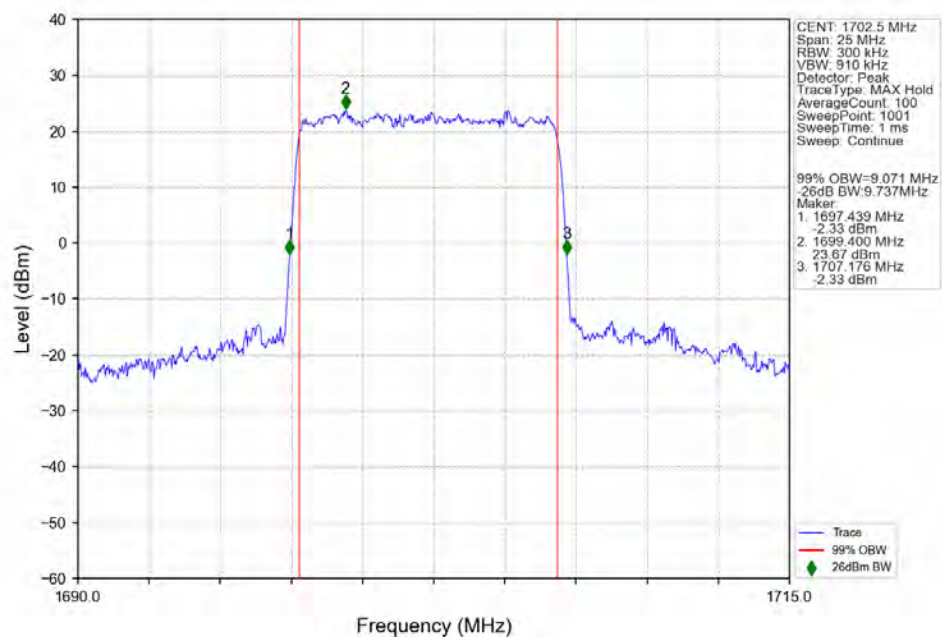
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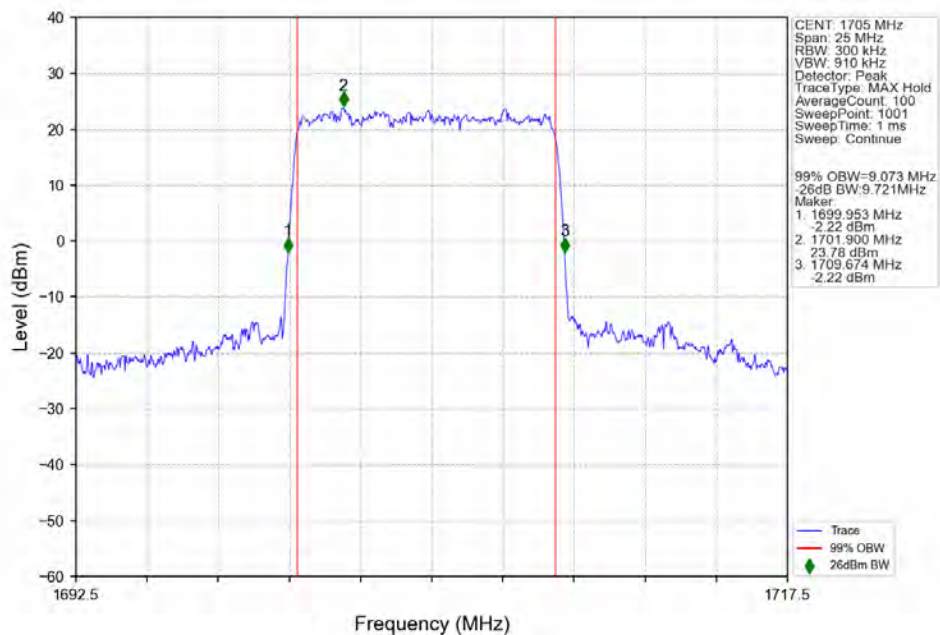
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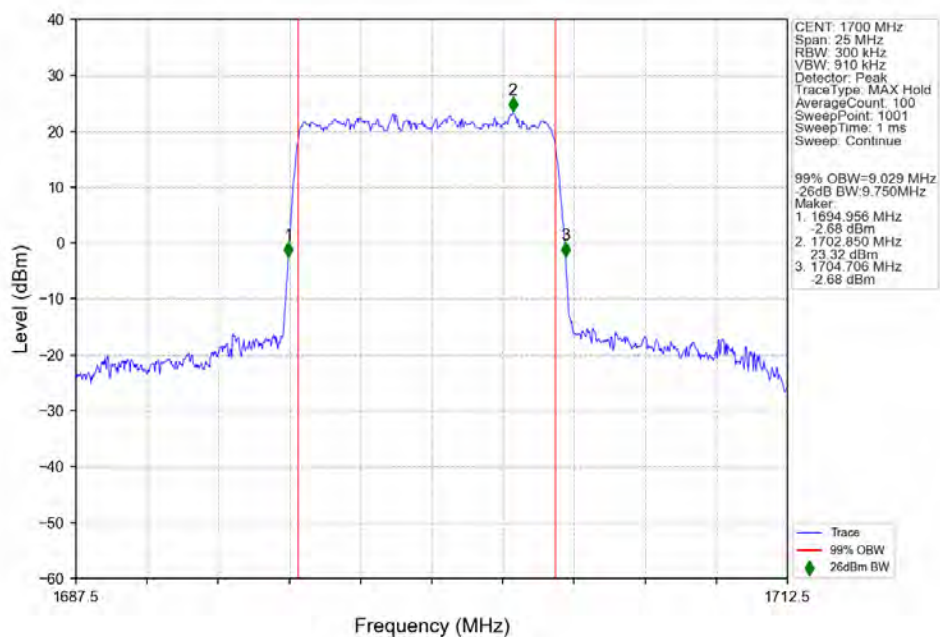
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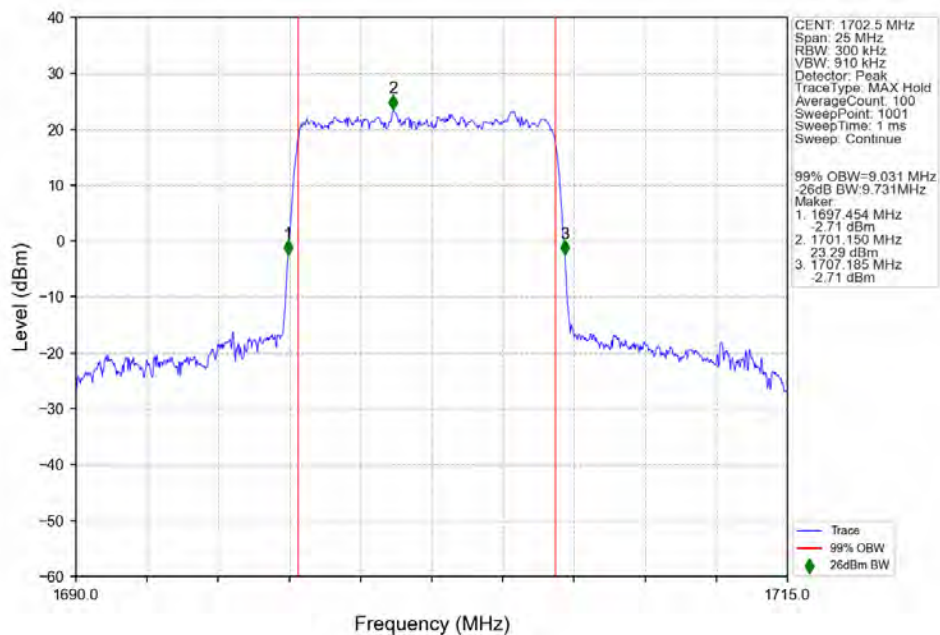
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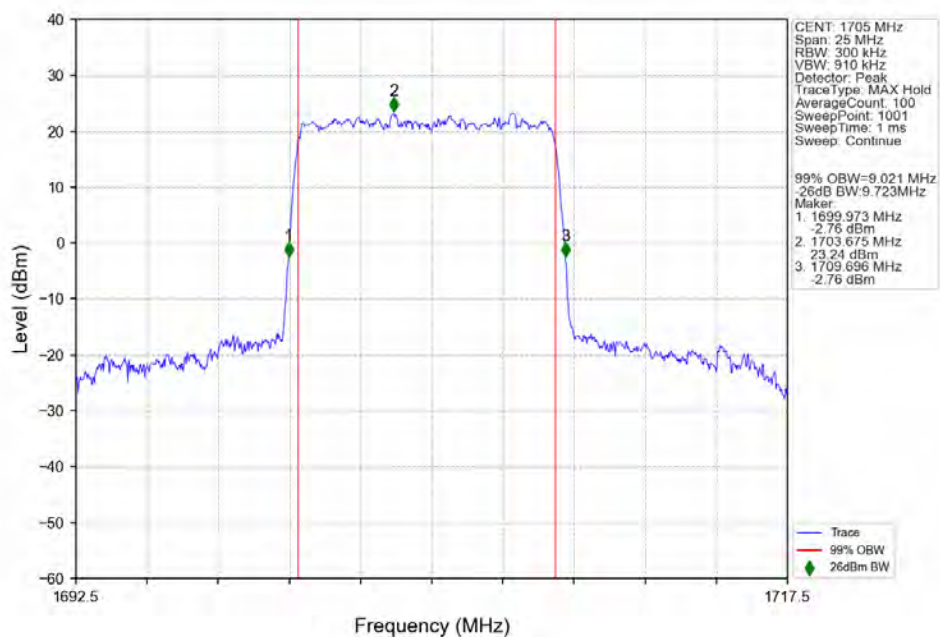
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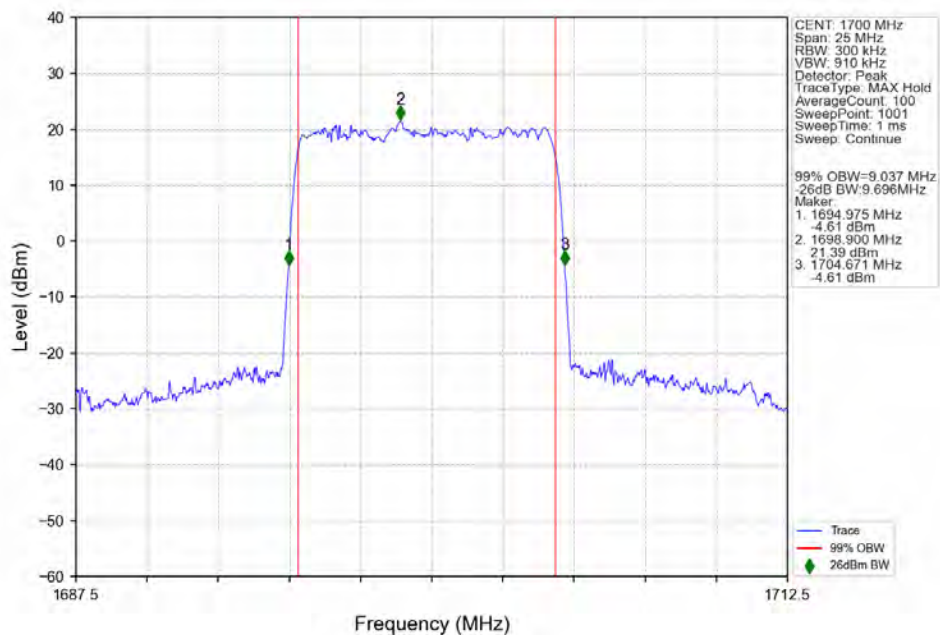
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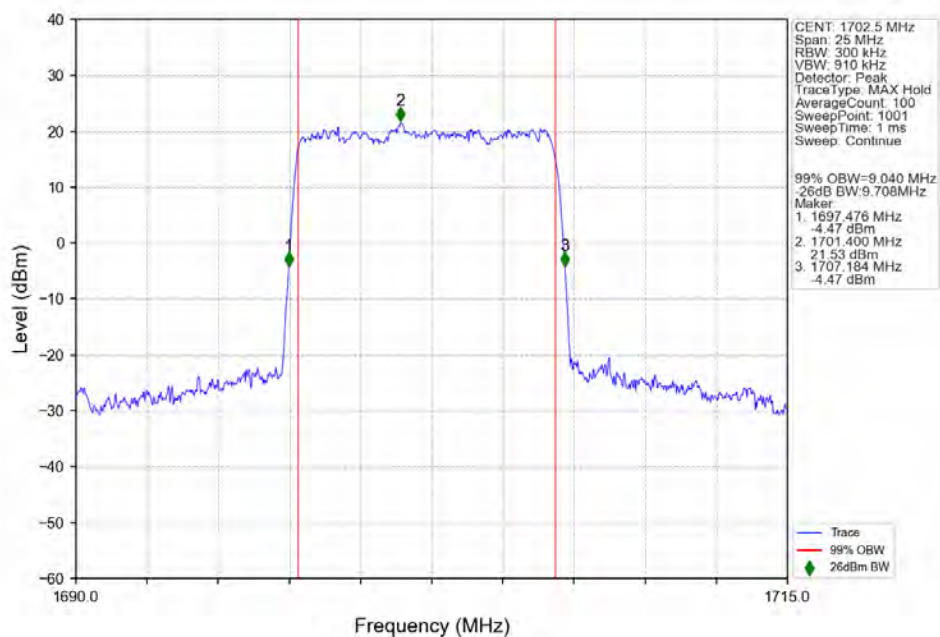
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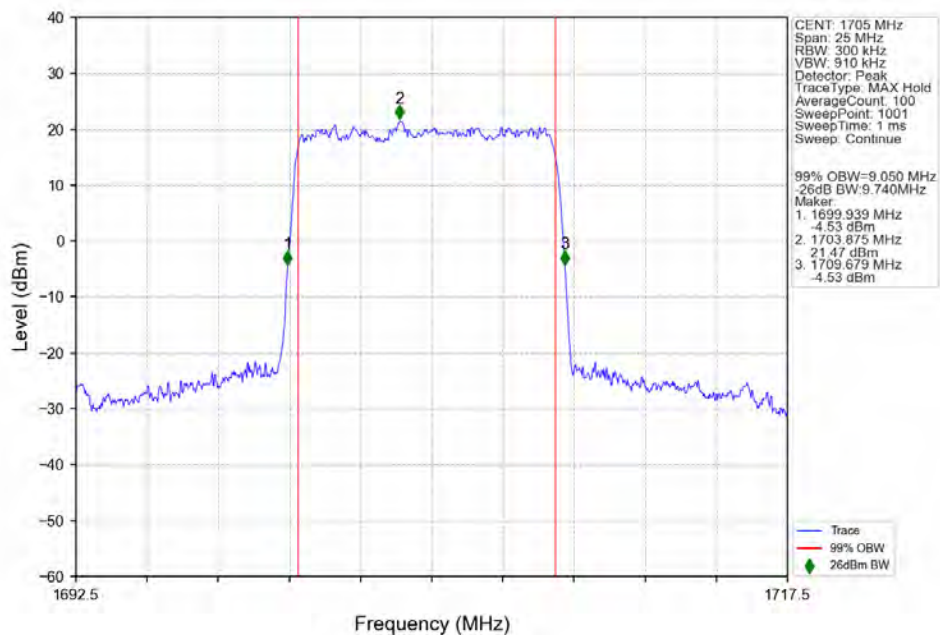
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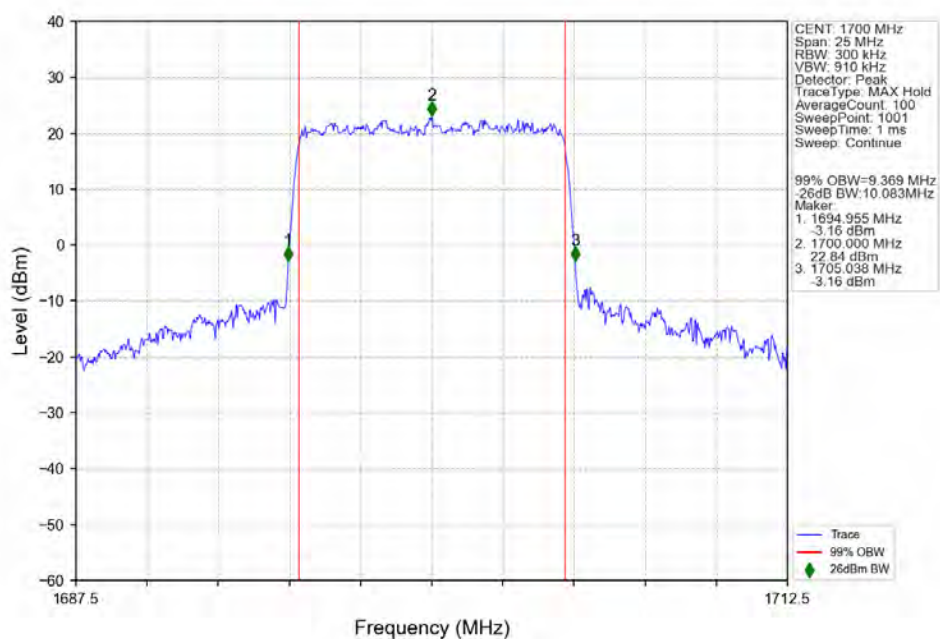
n70 15kHz SISO NTN 10MHz DFT-s-OFDM 256 QAM 1702.5MHz Outer Full Ant1



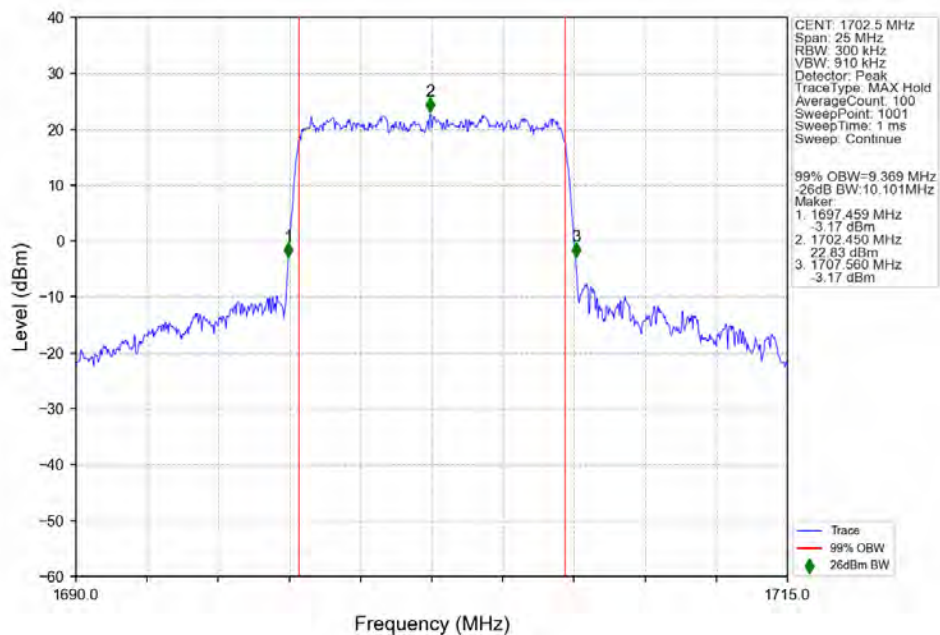
n70 15kHz SISO NTNv 10MHz DFT-s-OFDM 256 QAM 1705MHz Outer Full Ant1



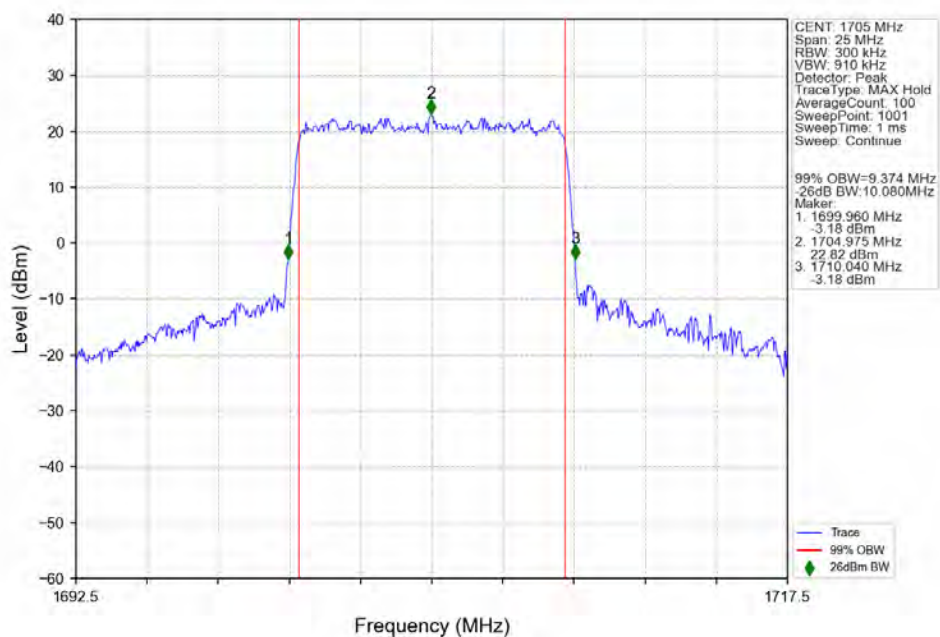
n70 15kHz SISO NTNv 10MHz CP-OFDM QPSK 1700MHz Outer Full Ant1



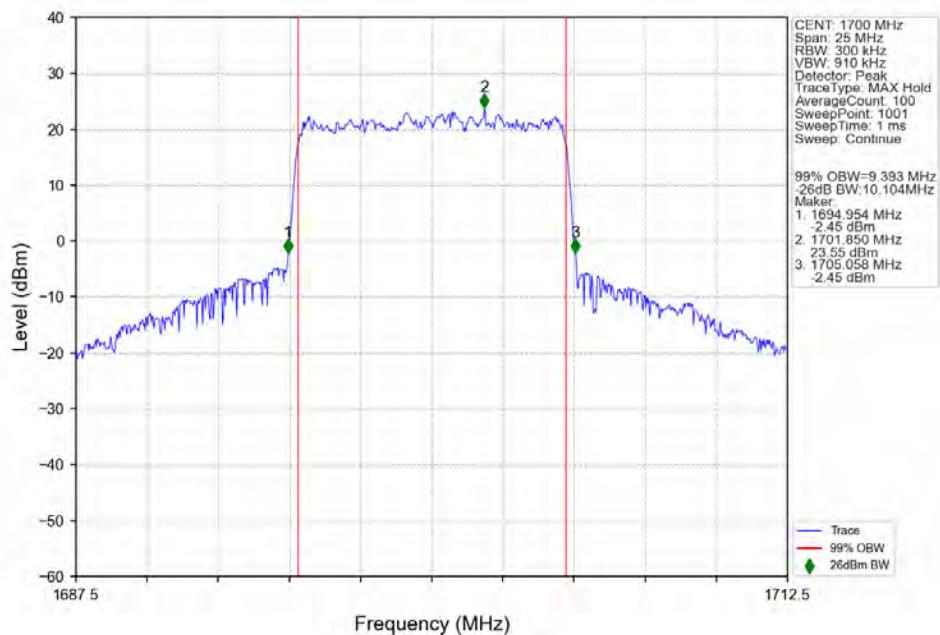
n70 15kHz SISO NTN 10MHz CP-OFDM QPSK 1702.5MHz Outer Full Ant1



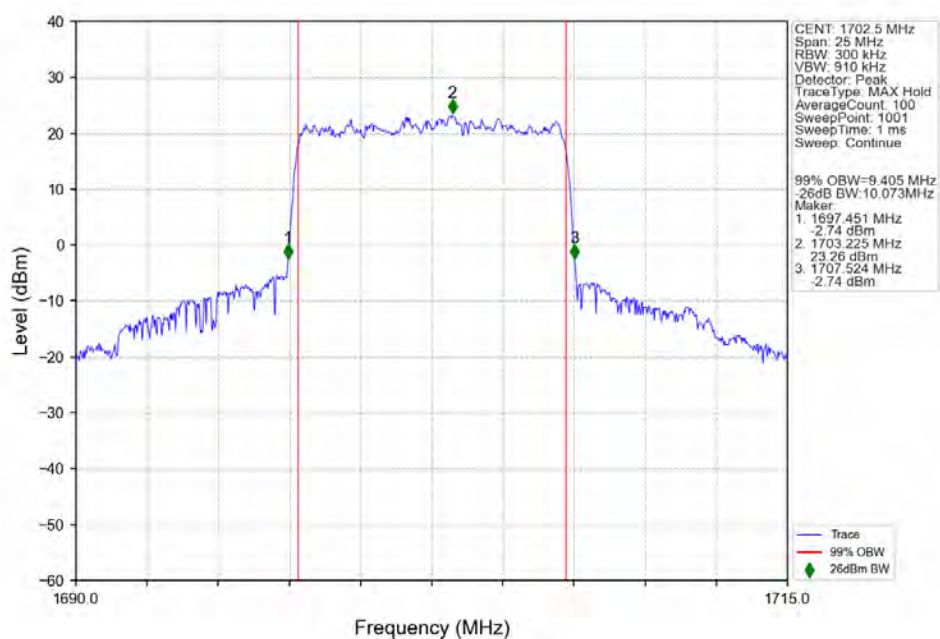
n70 15kHz SISO NTN 10MHz CP-OFDM QPSK 1705MHz Outer Full Ant1



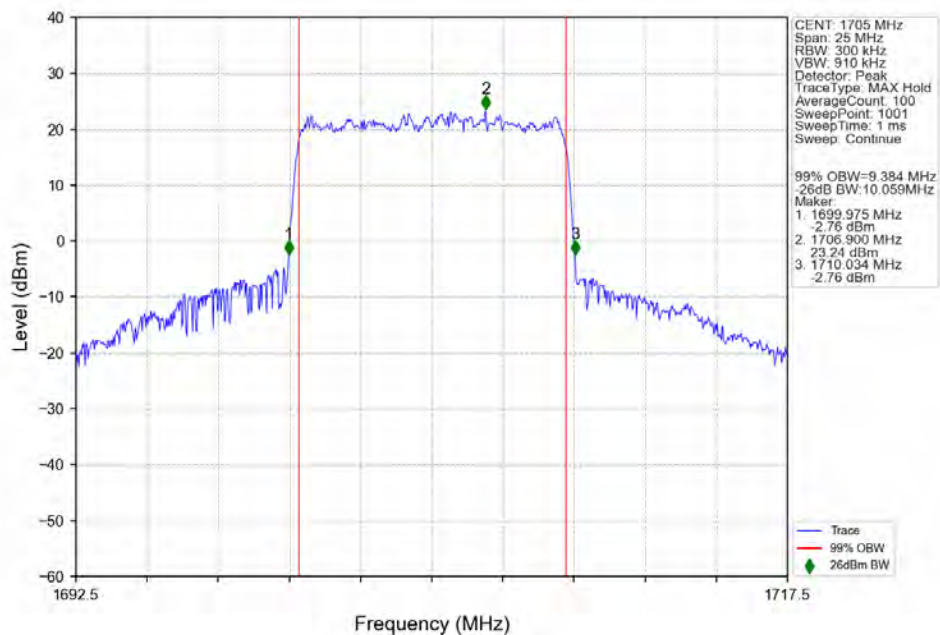
n70 15kHz SISO NTN 10MHz CP-OFDM 16 QAM 1700MHz Outer Full Ant1



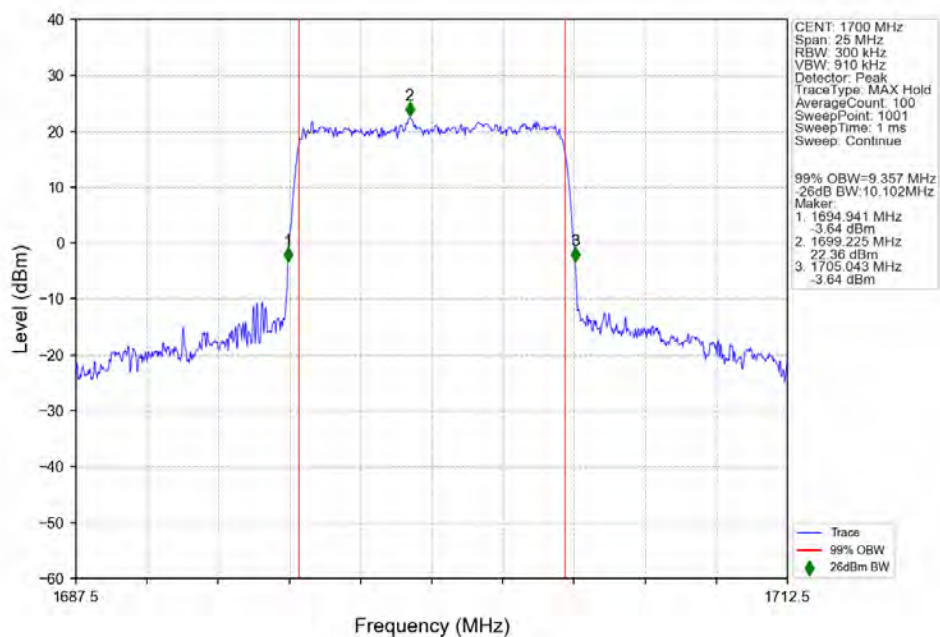
n70 15kHz SISO NTN 10MHz CP-OFDM 16 QAM 1702.5MHz Outer Full Ant1



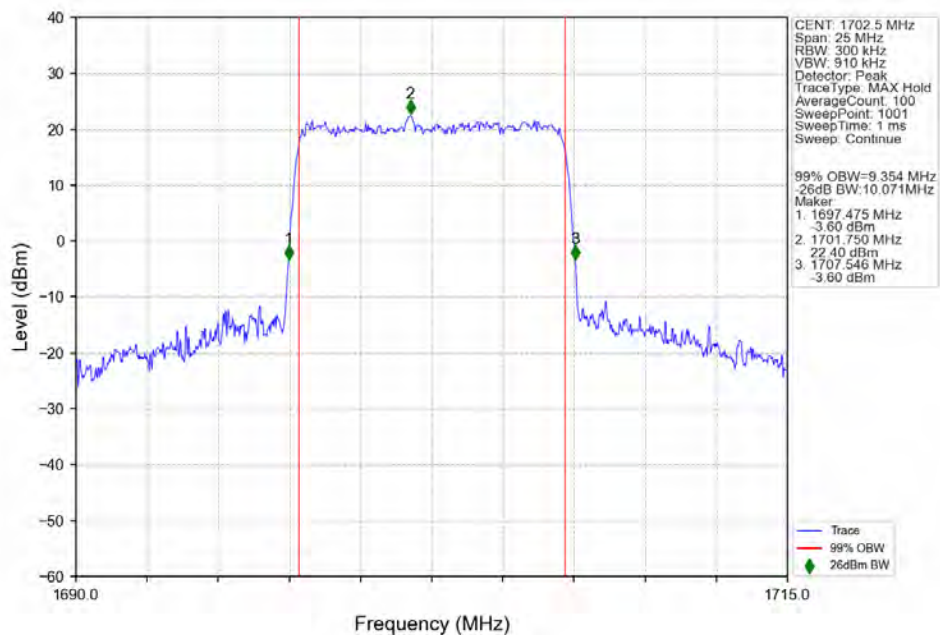
n70 15kHz SISO NTN 10MHz CP-OFDM 16 QAM 1705MHz Outer Full Ant1



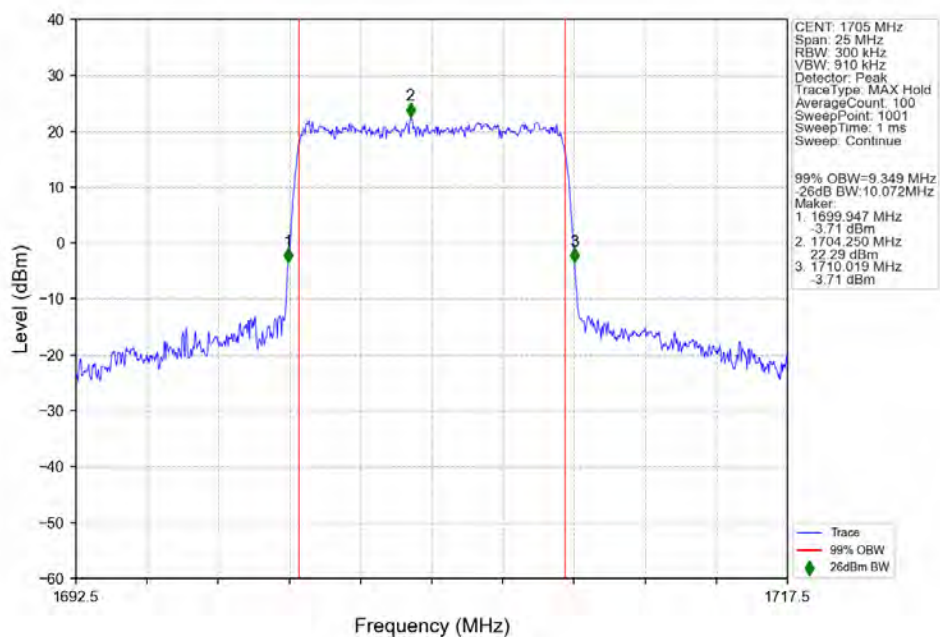
n70 15kHz SISO NTN 10MHz CP-OFDM 64 QAM 1700MHz Outer Full Ant1



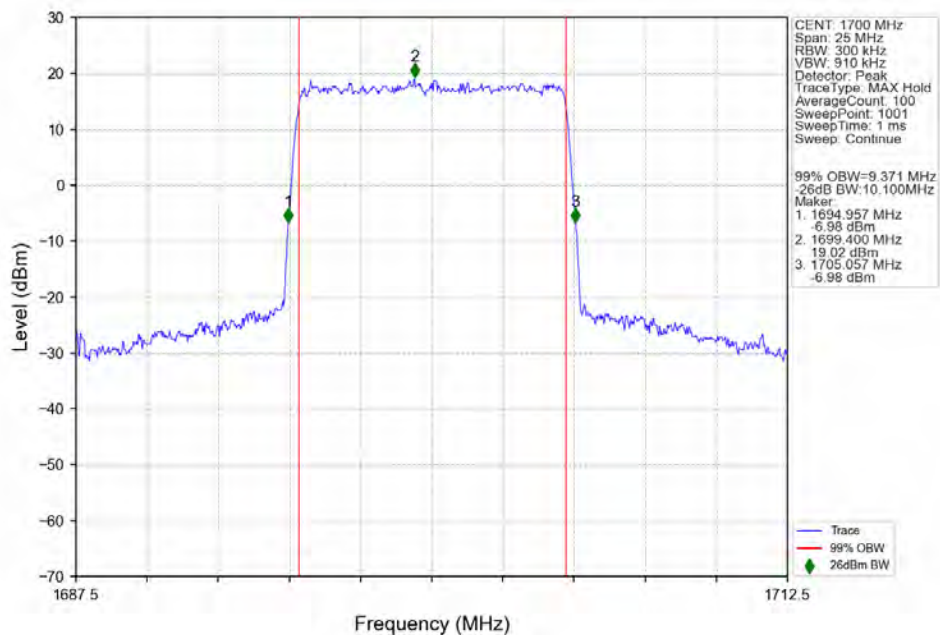
n70 15kHz SISO NTN 10MHz CP-OFDM 64 QAM 1702.5MHz Outer Full Ant1



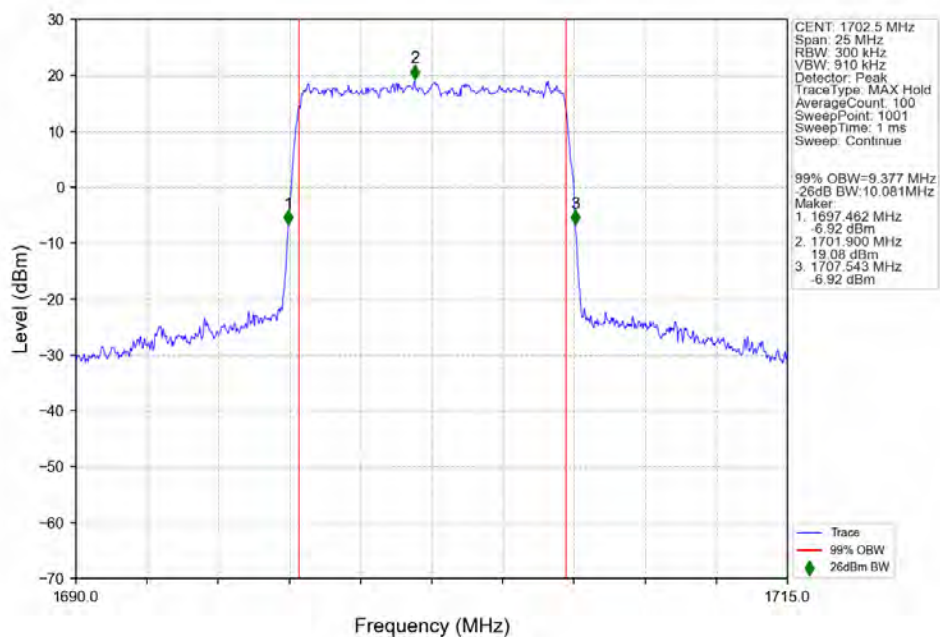
n70 15kHz SISO NTN 10MHz CP-OFDM 64 QAM 1705MHz Outer Full Ant1



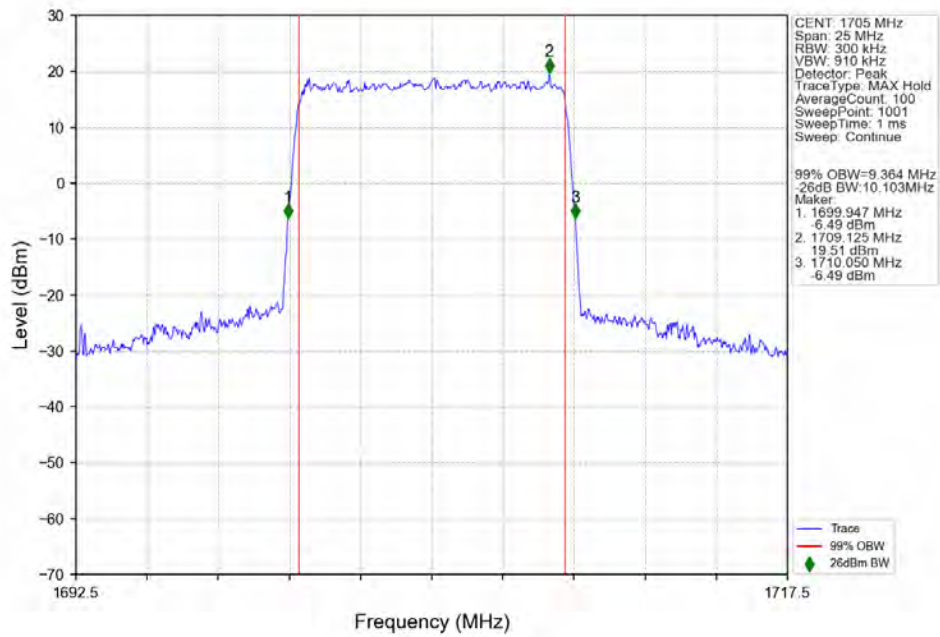
n70 15kHz SISO NTN 10MHz CP-OFDM 256 QAM 1700MHz Outer Full Ant1



n70 15kHz SISO NTN 10MHz CP-OFDM 256 QAM 1702.5MHz Outer Full Ant1

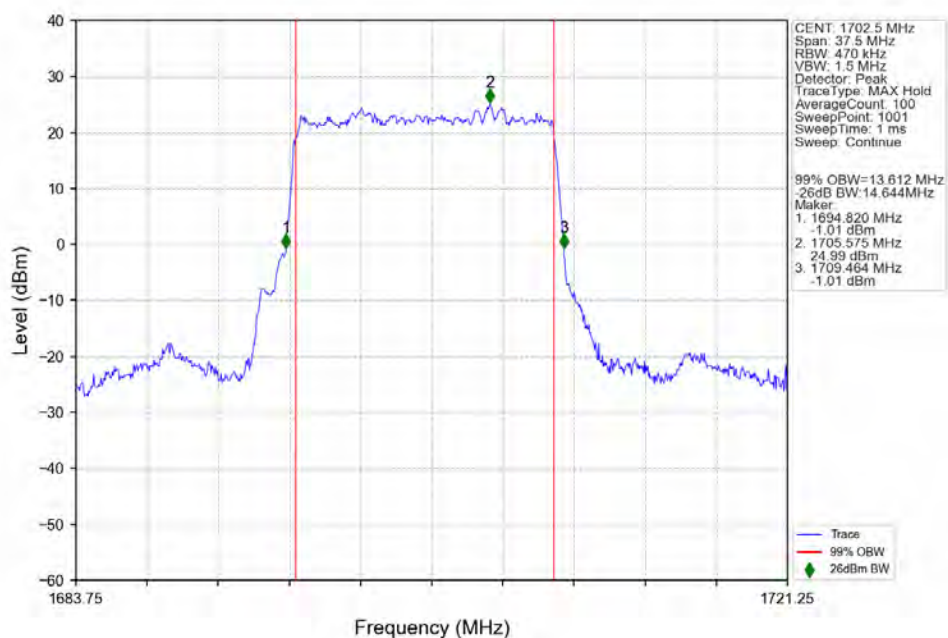


n70 15kHz SISO NTN 10MHz CP-OFDM 256 QAM 1705MHz Outer Full Ant1

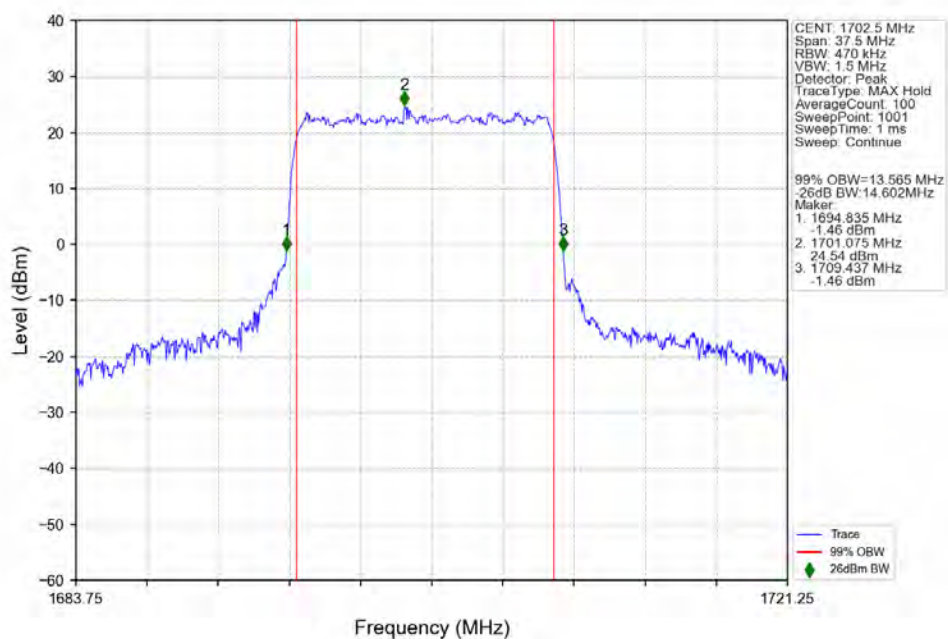


## 3.2.3 15k\_SISO\_15MHz\_NTNV

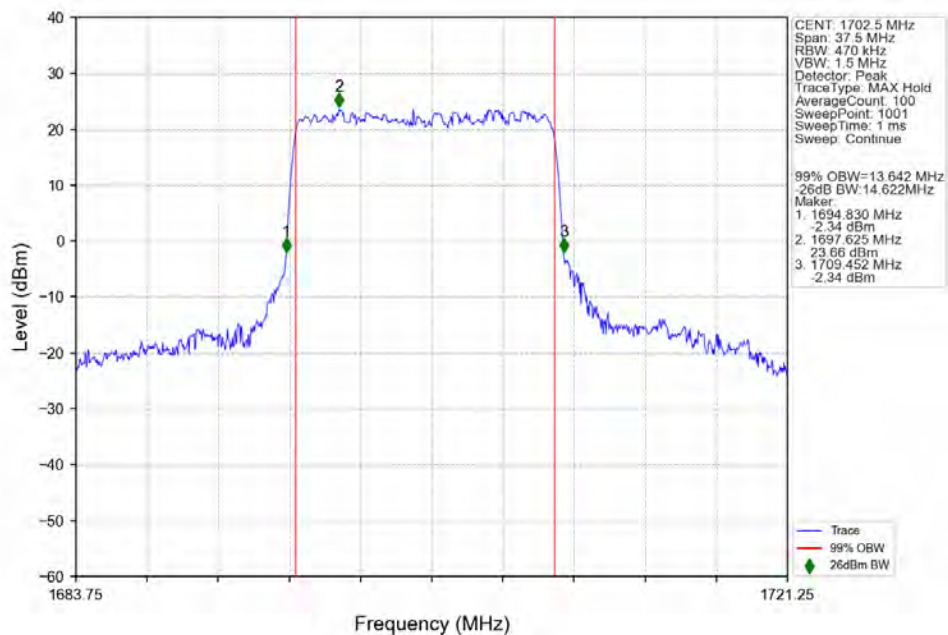
n70\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_1702.5MHz\_Outer\_Full\_Ant1



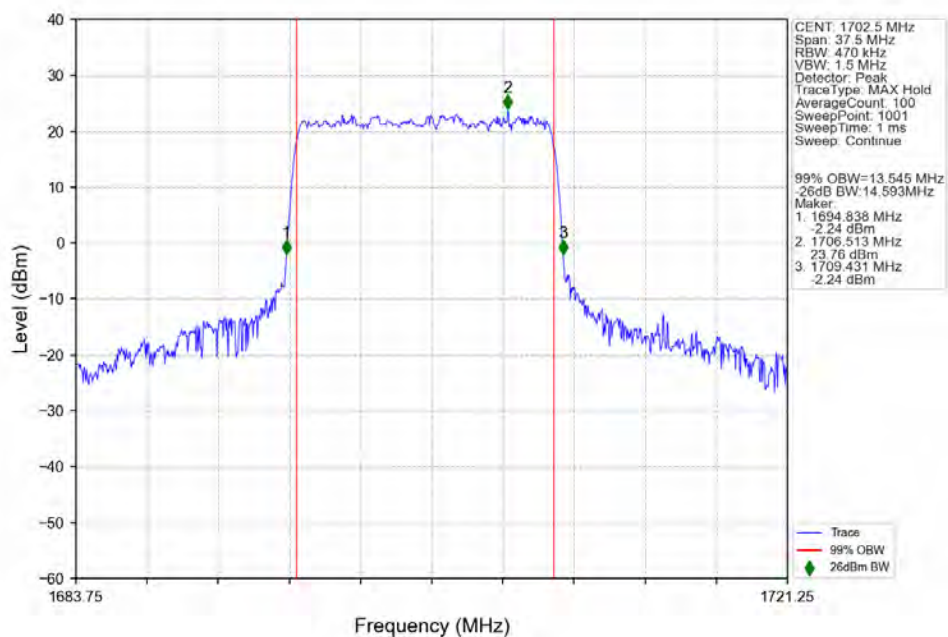
n70\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_1702.5MHz\_Outer\_Full\_Ant1



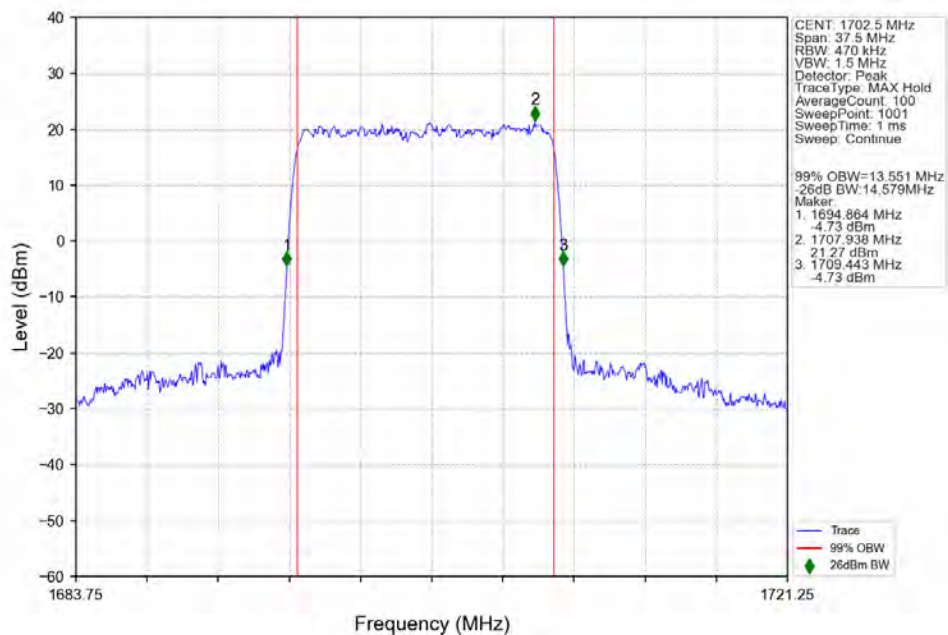
n70 15kHz SISO NTN 15MHz DFT-s-OFDM 16 QAM 1702.5MHz Outer Full Ant1



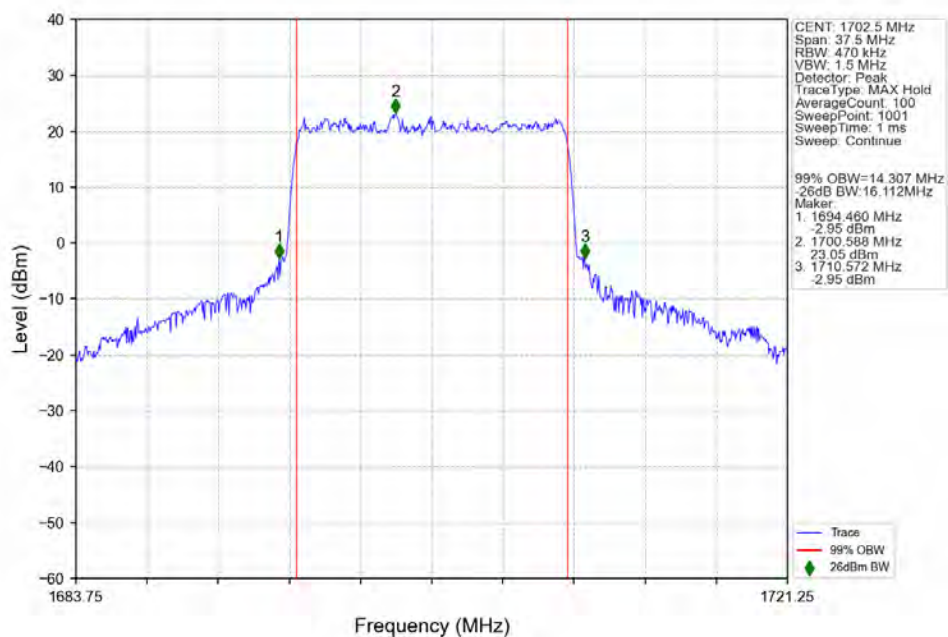
n70 15kHz SISO NTN 15MHz DFT-s-OFDM 64 QAM 1702.5MHz Outer Full Ant1



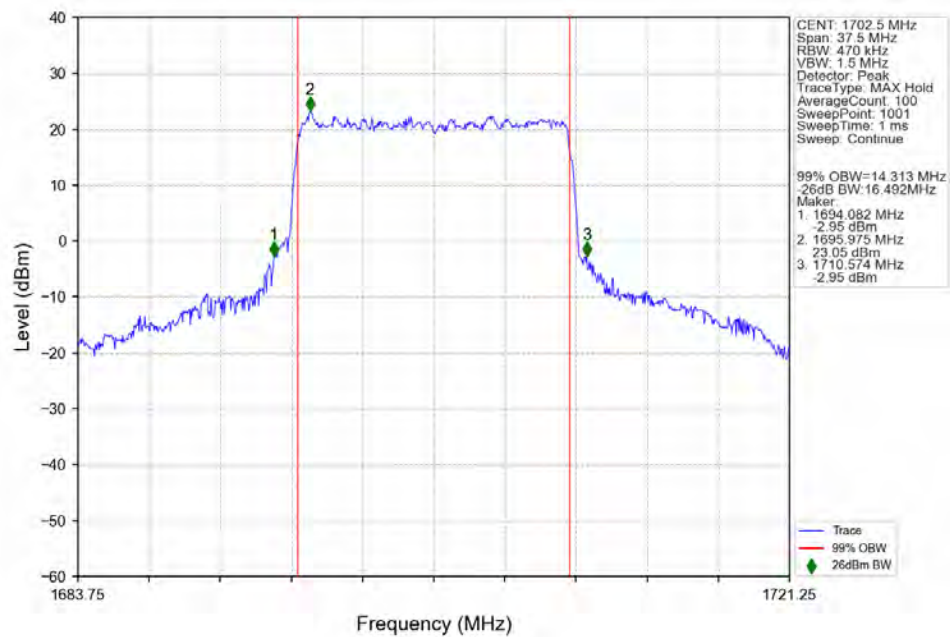
n70 15kHz SISO NTN 15MHz DFT-s-OFDM 256 QAM 1702.5MHz Outer Full Ant1



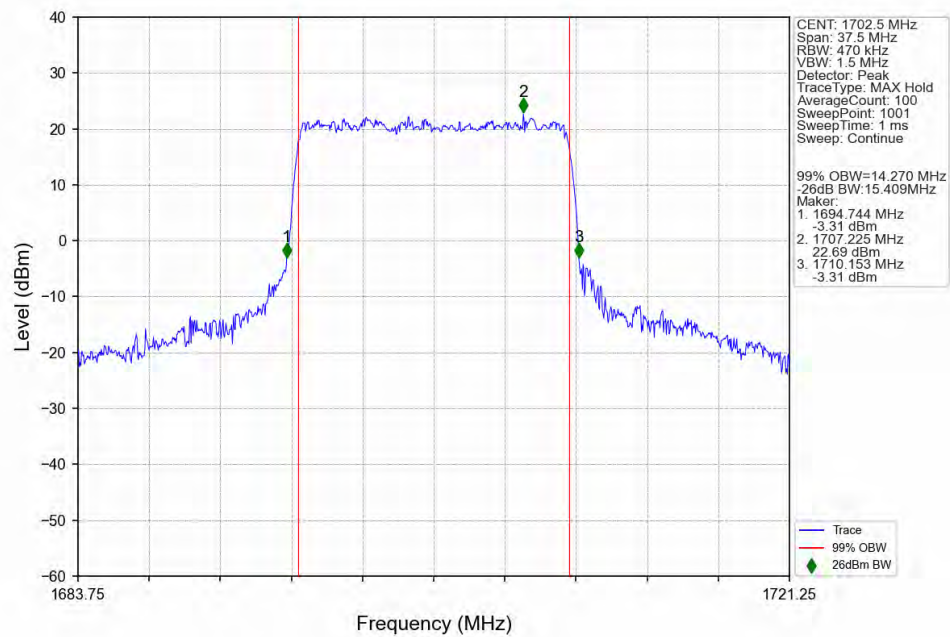
n70 15kHz SISO NTN 15MHz CP-OFDM QPSK 1702.5MHz Outer Full Ant1



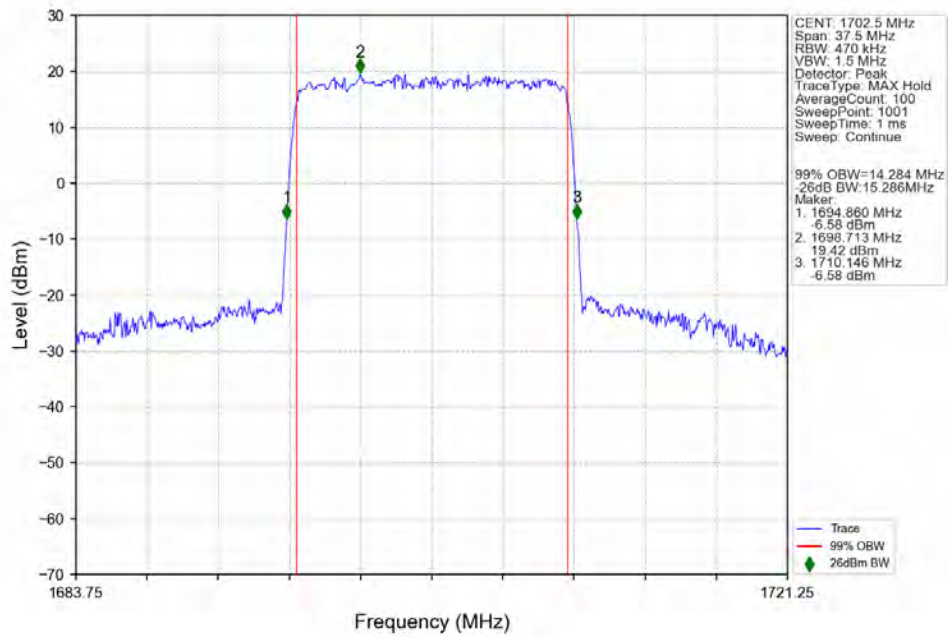
n70 15kHz SISO NTN 15MHz CP-OFDM 16 QAM 1702.5MHz Outer Full Ant1



n70 15kHz SISO NTN 15MHz CP-OFDM 64 QAM 1702.5MHz Outer Full Ant1



n70 15kHz SISO NTN 15MHz CP-OFDM 256 QAM 1702.5MHz Outer Full Ant1



## 4. Peak-Average Ratio

### 4.1 Test Result

#### 4.1.1 15k\_SISO\_5MHz\_NTNV

| 5G NR n70 SCS=15kHz SISO 5MHz NTN |                 |               |                         |      |     |       |         |
|-----------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                   |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK              | 1697.5          | Outer_Full    | 4.42                    | /    | /   | <=13  | Pass    |
|                                   | 1702.5          | Outer_Full    | 4.36                    | /    | /   | <=13  | Pass    |
|                                   | 1707.5          | Outer_Full    | 4.34                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                   | 1697.5          | Outer_Full    | 5.65                    | /    | /   | <=13  | Pass    |
|                                   | 1702.5          | Outer_Full    | 5.66                    | /    | /   | <=13  | Pass    |
|                                   | 1707.5          | Outer_Full    | 5.65                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                 | 1697.5          | Outer_Full    | 6.14                    | /    | /   | <=13  | Pass    |
|                                   | 1702.5          | Outer_Full    | 6.13                    | /    | /   | <=13  | Pass    |
|                                   | 1707.5          | Outer_Full    | 6.09                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                 | 1697.5          | Outer_Full    | 6.60                    | /    | /   | <=13  | Pass    |
|                                   | 1702.5          | Outer_Full    | 6.54                    | /    | /   | <=13  | Pass    |
|                                   | 1707.5          | Outer_Full    | 6.51                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                | 1697.5          | Outer_Full    | 6.87                    | /    | /   | <=13  | Pass    |
|                                   | 1702.5          | Outer_Full    | 6.86                    | /    | /   | <=13  | Pass    |
|                                   | 1707.5          | Outer_Full    | 6.83                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                      | 1697.5          | Outer_Full    | 8.02                    | /    | /   | <=13  | Pass    |
|                                   | 1702.5          | Outer_Full    | 8.01                    | /    | /   | <=13  | Pass    |
|                                   | 1707.5          | Outer_Full    | 7.97                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                    | 1697.5          | Outer_Full    | 8.16                    | /    | /   | <=13  | Pass    |
|                                   | 1702.5          | Outer_Full    | 8.17                    | /    | /   | <=13  | Pass    |
|                                   | 1707.5          | Outer_Full    | 8.12                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                    | 1697.5          | Outer_Full    | 8.22                    | /    | /   | <=13  | Pass    |
|                                   | 1702.5          | Outer_Full    | 8.22                    | /    | /   | <=13  | Pass    |
|                                   | 1707.5          | Outer_Full    | 8.16                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                   | 1697.5          | Outer_Full    | 8.71                    | /    | /   | <=13  | Pass    |
|                                   | 1702.5          | Outer_Full    | 8.67                    | /    | /   | <=13  | Pass    |
|                                   | 1707.5          | Outer_Full    | 8.64                    | /    | /   | <=13  | Pass    |

#### 4.1.2 15k\_SISO\_10MHz\_NTNV

| 5G NR n70 SCS=15kHz SISO 10MHz NTN |                 |               |                         |      |     |       |         |
|------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                    |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 1700            | Outer_Full    | 4.35                    | /    | /   | <=13  | Pass    |
|                                    | 1702.5          | Outer_Full    | 4.32                    | /    | /   | <=13  | Pass    |
|                                    | 1705            | Outer_Full    | 4.34                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                    | 1700            | Outer_Full    | 5.62                    | /    | /   | <=13  | Pass    |
|                                    | 1702.5          | Outer_Full    | 5.60                    | /    | /   | <=13  | Pass    |
|                                    | 1705            | Outer_Full    | 5.57                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                  | 1700            | Outer_Full    | 6.27                    | /    | /   | <=13  | Pass    |
|                                    | 1702.5          | Outer_Full    | 6.26                    | /    | /   | <=13  | Pass    |
|                                    | 1705            | Outer_Full    | 6.24                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                  | 1700            | Outer_Full    | 6.42                    | /    | /   | <=13  | Pass    |
|                                    | 1702.5          | Outer_Full    | 6.42                    | /    | /   | <=13  | Pass    |
|                                    | 1705            | Outer_Full    | 6.41                    | /    | /   | <=13  | Pass    |

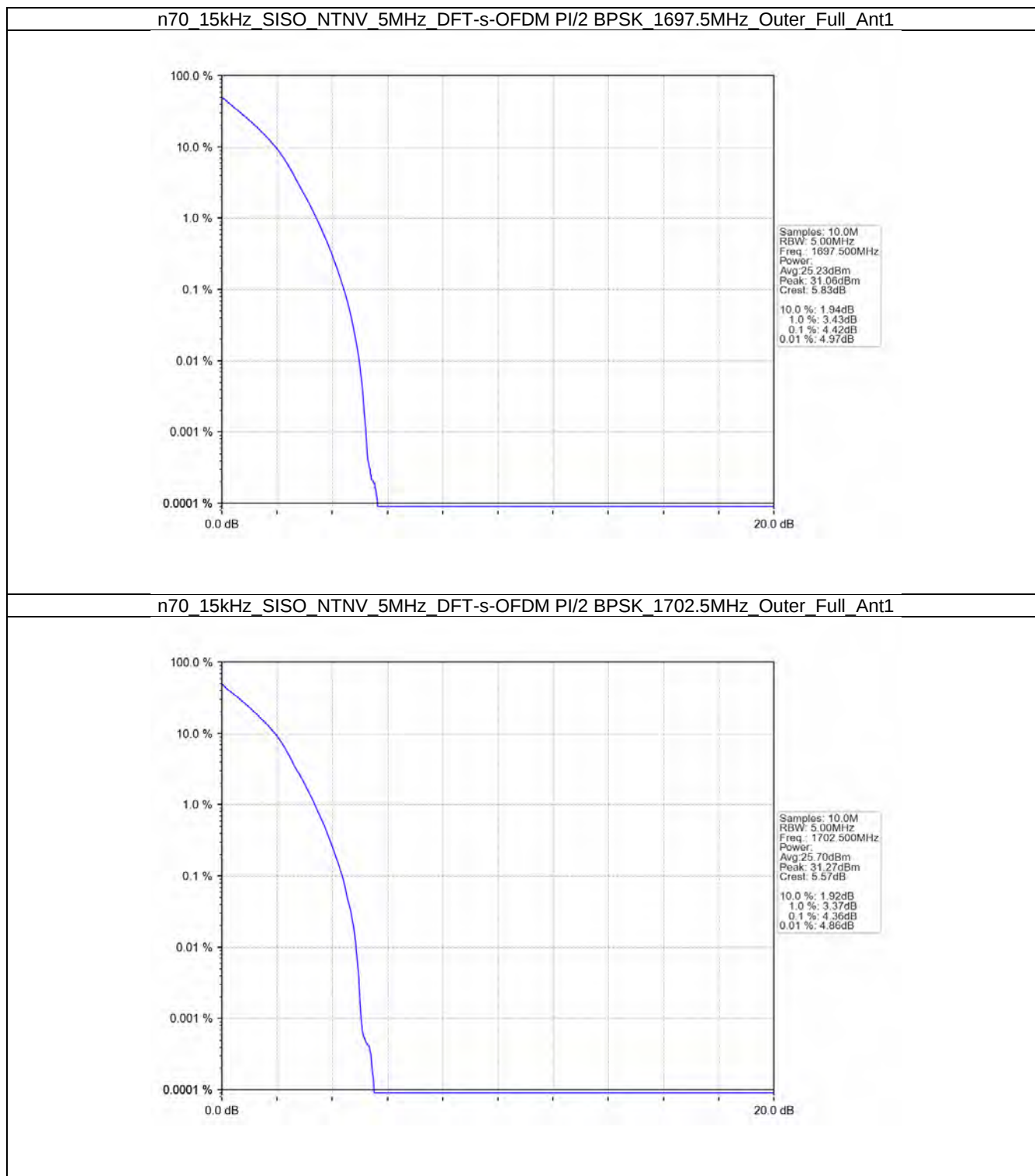
|                    |        |            |      |   |   |      |      |
|--------------------|--------|------------|------|---|---|------|------|
| DFT-s-OFDM 256 QAM | 1700   | Outer_Full | 6.62 | / | / | <=13 | Pass |
|                    | 1702.5 | Outer_Full | 6.60 | / | / | <=13 | Pass |
|                    | 1705   | Outer_Full | 6.60 | / | / | <=13 | Pass |
| CP-OFDM QPSK       | 1700   | Outer_Full | 8.06 | / | / | <=13 | Pass |
|                    | 1702.5 | Outer_Full | 8.06 | / | / | <=13 | Pass |
|                    | 1705   | Outer_Full | 8.04 | / | / | <=13 | Pass |
| CP-OFDM 16 QAM     | 1700   | Outer_Full | 8.18 | / | / | <=13 | Pass |
|                    | 1702.5 | Outer_Full | 8.18 | / | / | <=13 | Pass |
|                    | 1705   | Outer_Full | 8.15 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM     | 1700   | Outer_Full | 8.06 | / | / | <=13 | Pass |
|                    | 1702.5 | Outer_Full | 8.07 | / | / | <=13 | Pass |
|                    | 1705   | Outer_Full | 8.06 | / | / | <=13 | Pass |
| CP-OFDM 256 QAM    | 1700   | Outer_Full | 8.39 | / | / | <=13 | Pass |
|                    | 1702.5 | Outer_Full | 8.38 | / | / | <=13 | Pass |
|                    | 1705   | Outer_Full | 8.35 | / | / | <=13 | Pass |

#### 4.1.3 15k\_SISO\_15MHz\_NTNV

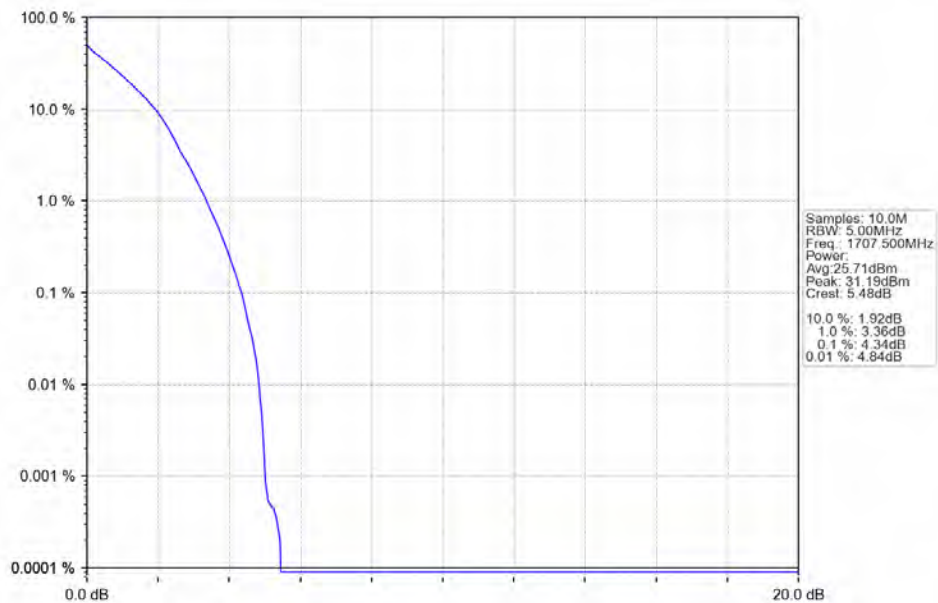
| 5G NR n70 SCS=15kHz SISO 15MHz NTN |                 |               |                         |      |     |       |         |
|------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                    |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 1702.5          | Outer_Full    | 4.33                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                    | 1702.5          | Outer_Full    | 5.53                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                  | 1702.5          | Outer_Full    | 6.18                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                  | 1702.5          | Outer_Full    | 6.33                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                 | 1702.5          | Outer_Full    | 6.64                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                       | 1702.5          | Outer_Full    | 7.93                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                     | 1702.5          | Outer_Full    | 8.00                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                     | 1702.5          | Outer_Full    | 8.09                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                    | 1702.5          | Outer_Full    | 8.66                    | /    | /   | <=13  | Pass    |

## 4.2 Test Graph

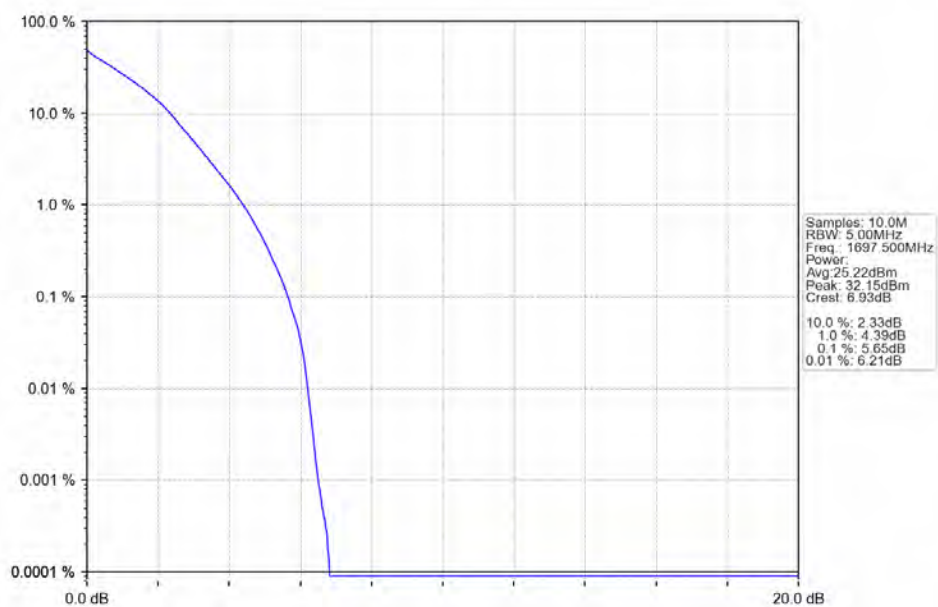
### 4.2.1 15k\_SISO\_5MHz\_NTNV



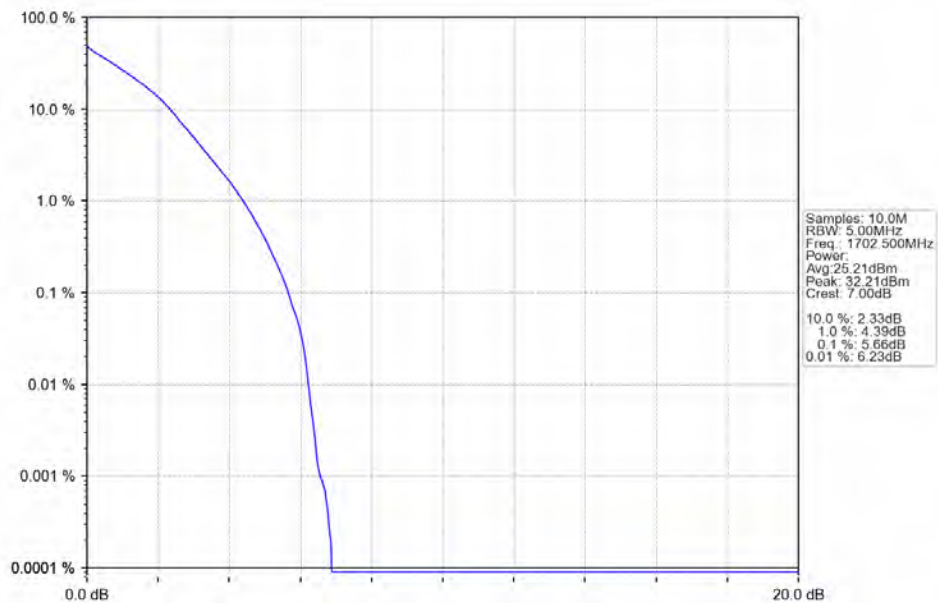
n70 15kHz SISO NTN 5MHz DFT-s-OFDM PI/2 BPSK 1707.5MHz Outer Full Ant1



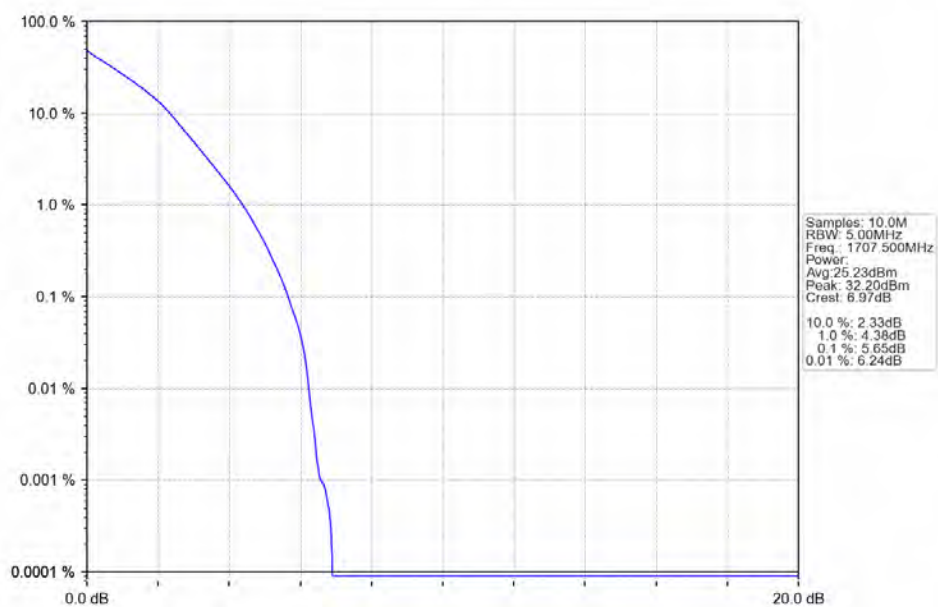
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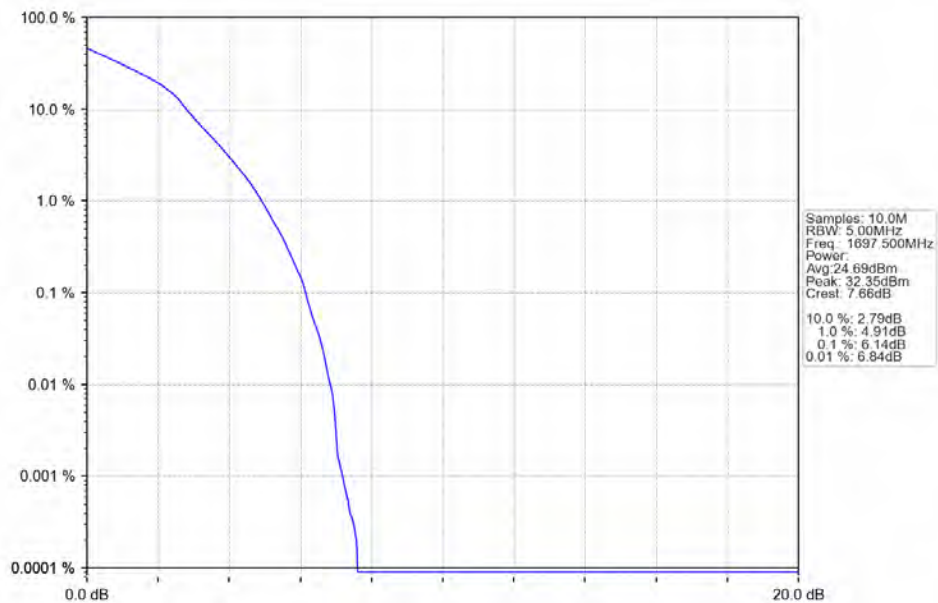
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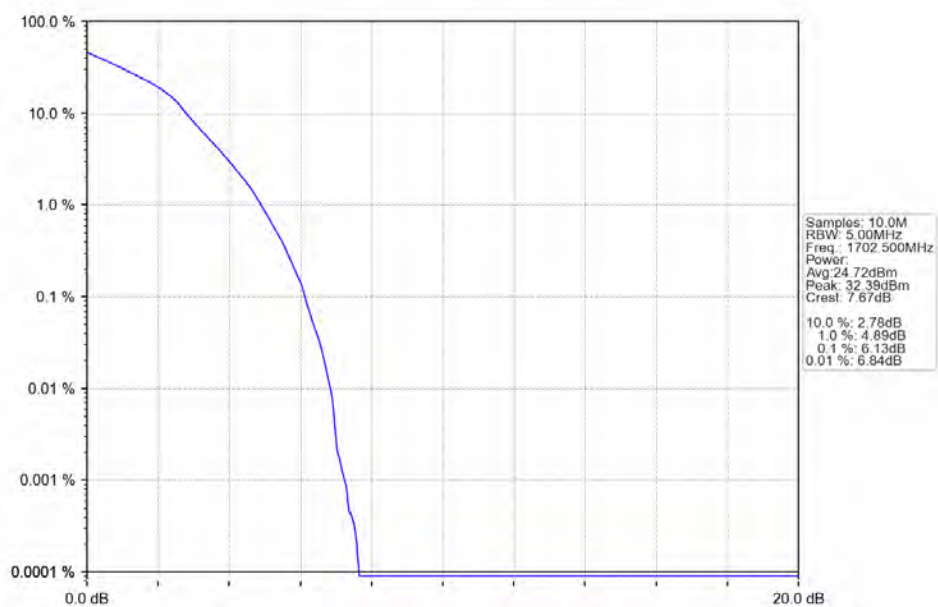
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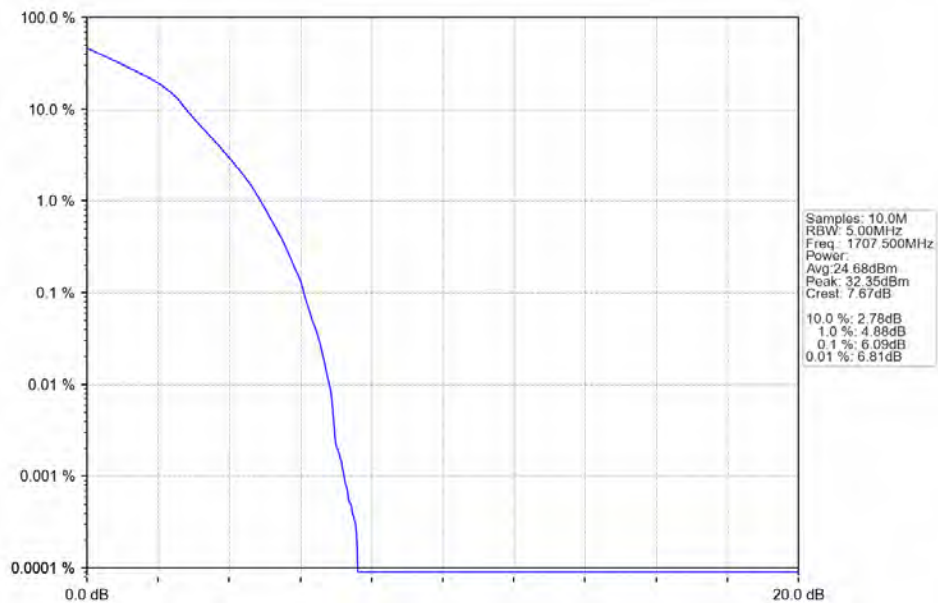
n70 15kHz SISO NTN 5MHz DFT-s-OFDM 16 QAM 1697.5MHz Outer Full Ant1



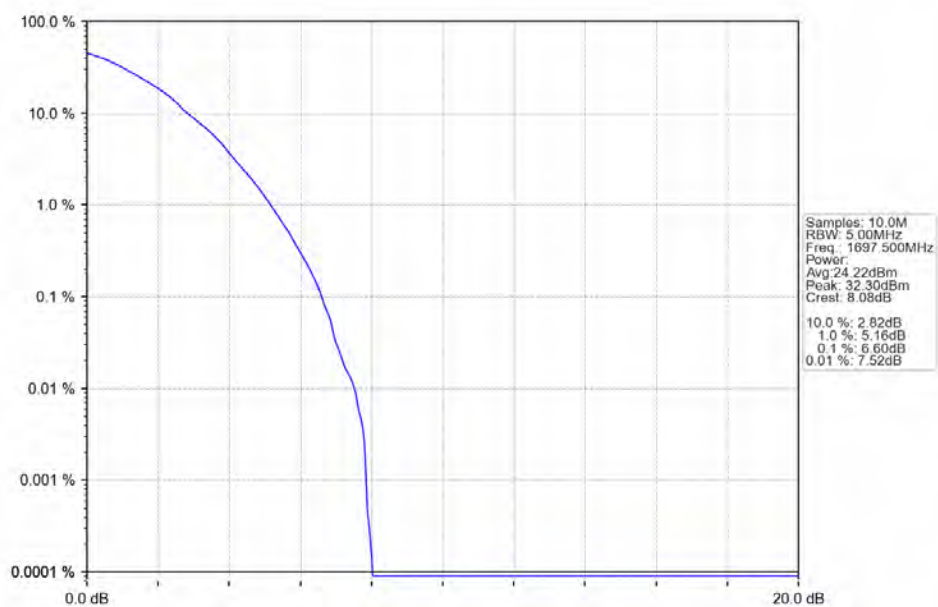
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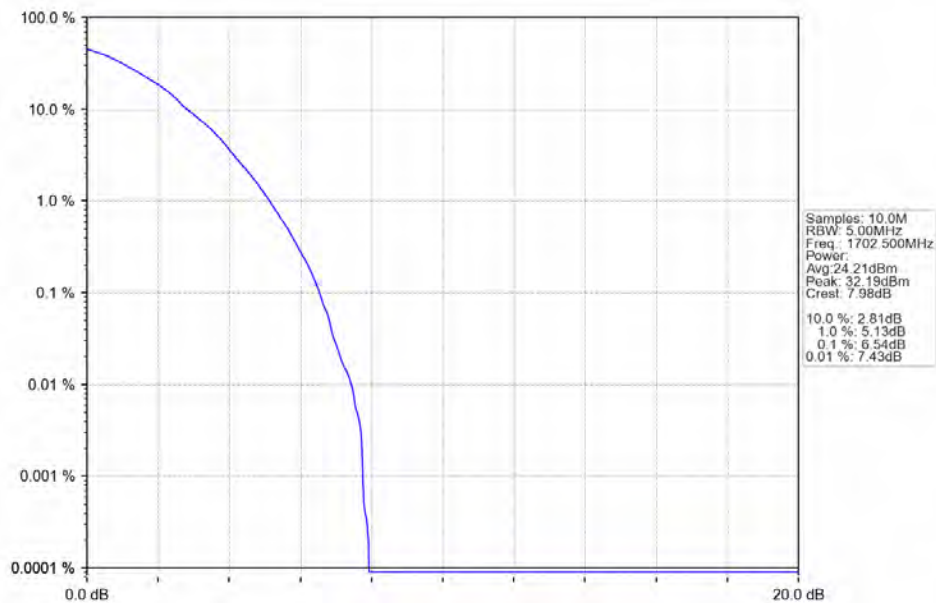
n70 15kHz SISO NTN 5MHz DFT-s-OFDM 16 QAM 1707.5MHz Outer Full Ant1



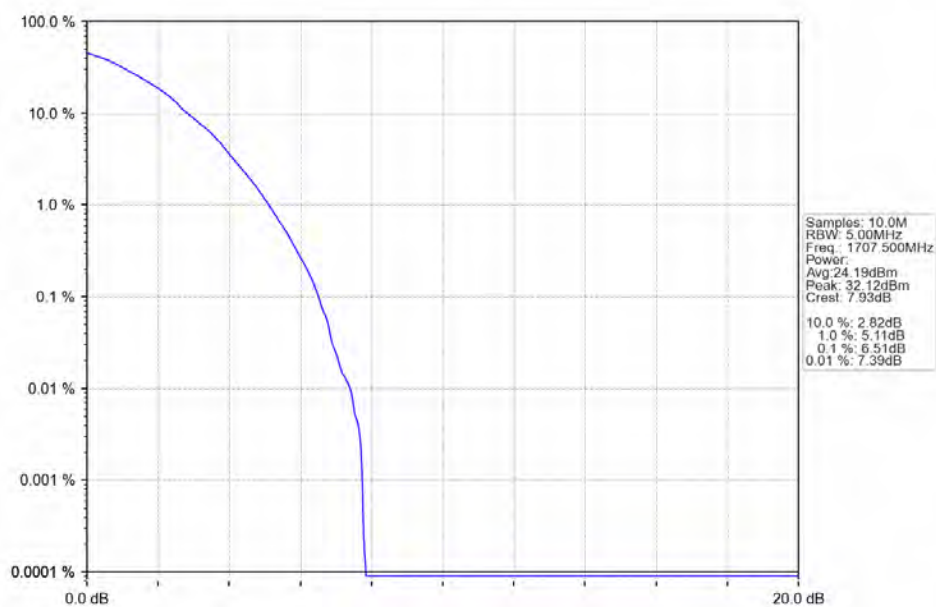
n70 15kHz SISO NTN 5MHz DFT-s-OFDM 64 QAM 1697.5MHz Outer Full Ant1



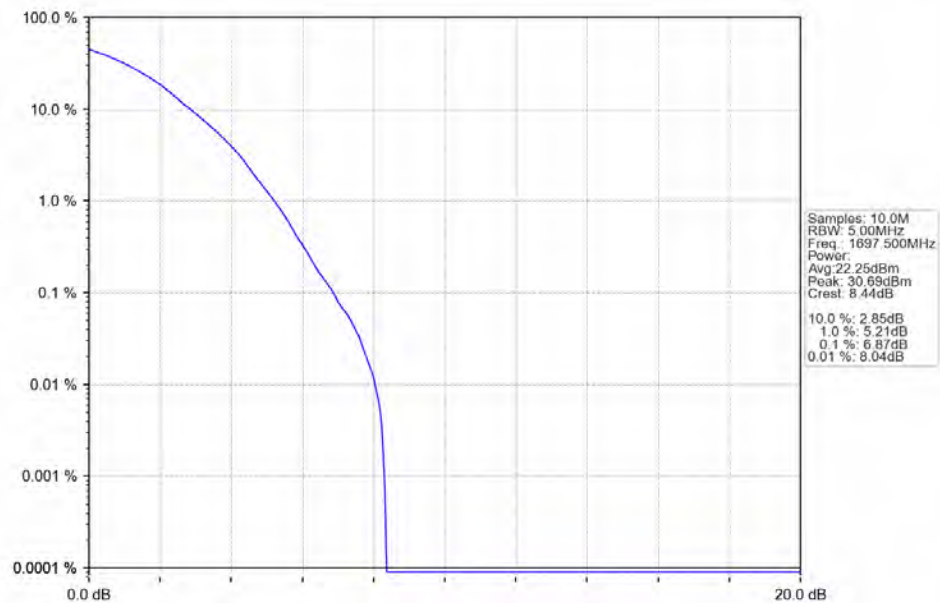
n70 15kHz SISO NTN 5MHz DFT-s-OFDM 64 QAM 1702.5MHz Outer Full Ant1



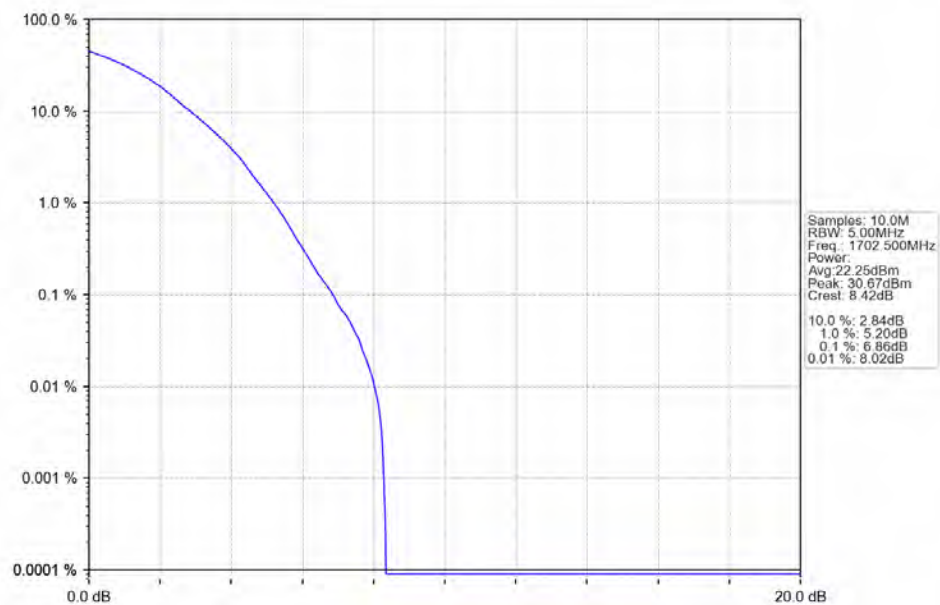
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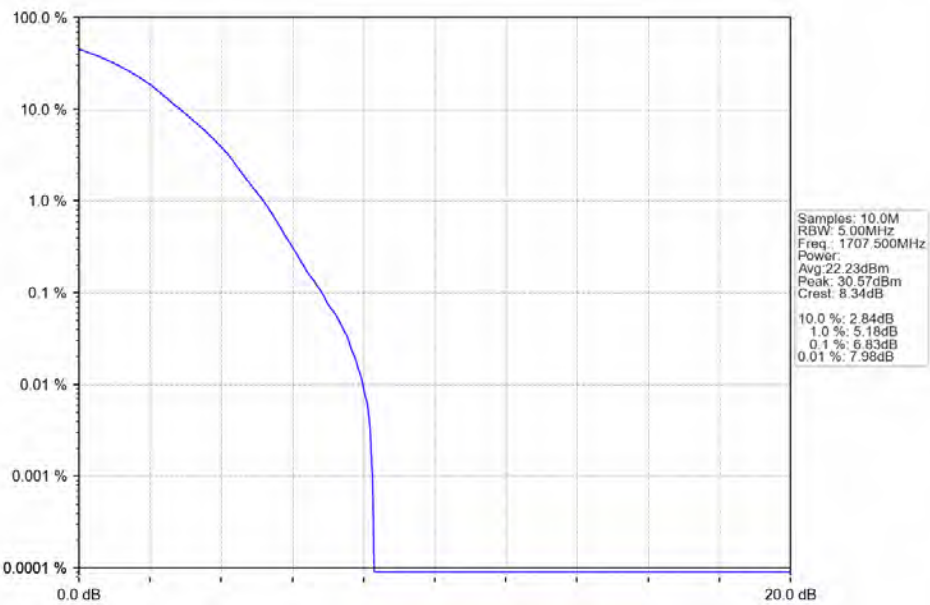
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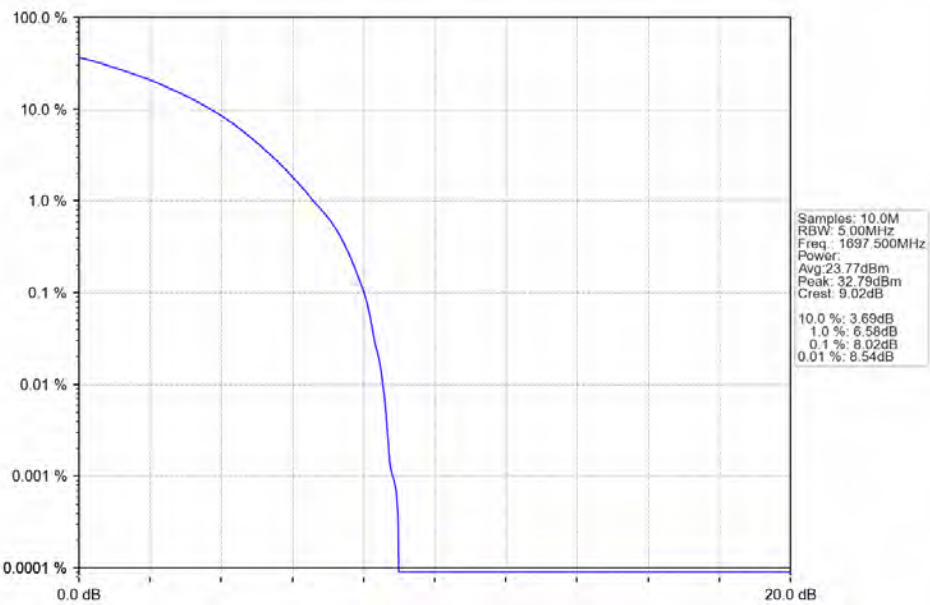
n70 15kHz SISO NTN 5MHz DFT-s-OFDM 256 QAM 1702.5MHz Outer Full Ant1



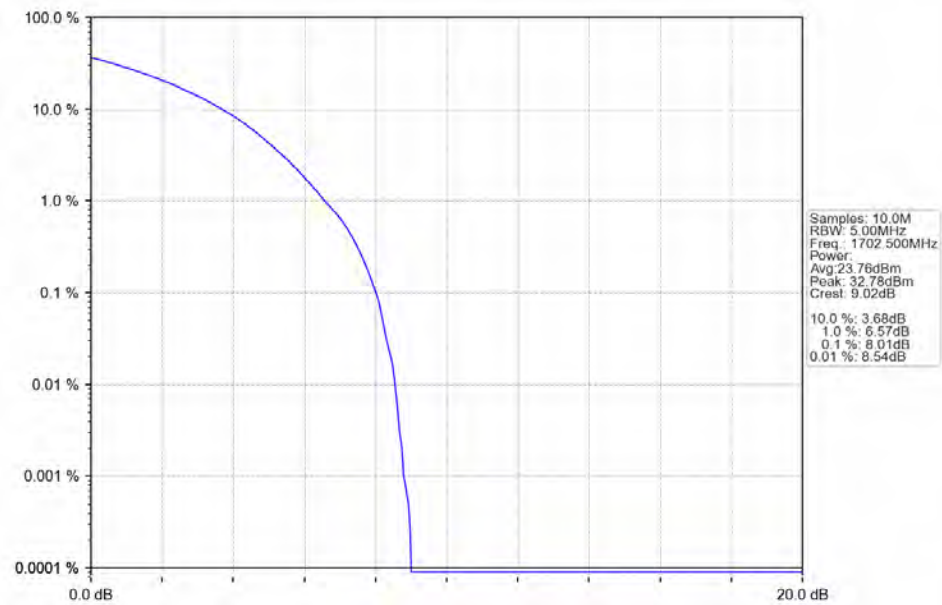
n70 15kHz SISO NTN 5MHz DFT-s-OFDM 256 QAM 1707.5MHz Outer Full Ant1



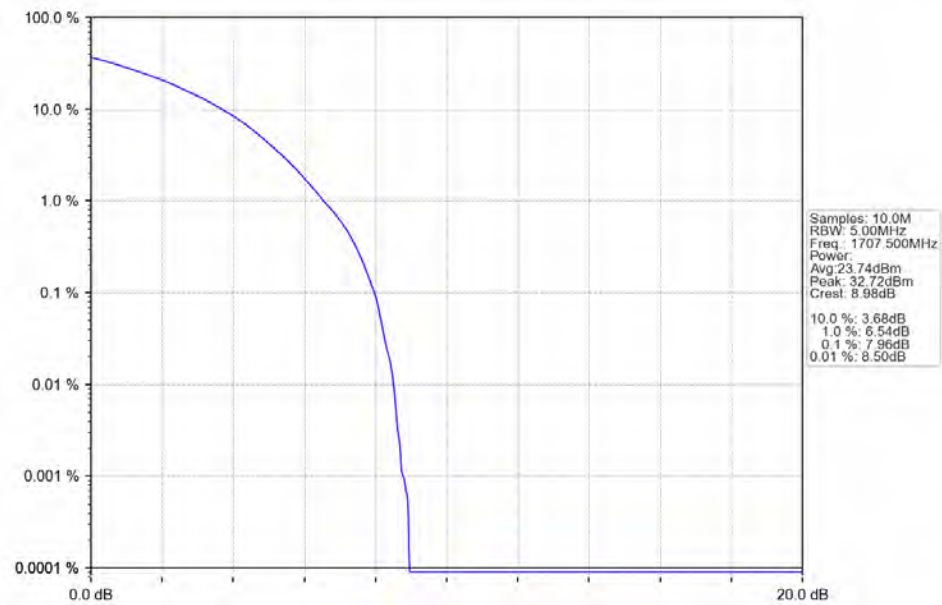
n70 15kHz SISO NTN 5MHz CP-OFDM QPSK 1697.5MHz Outer Full Ant1



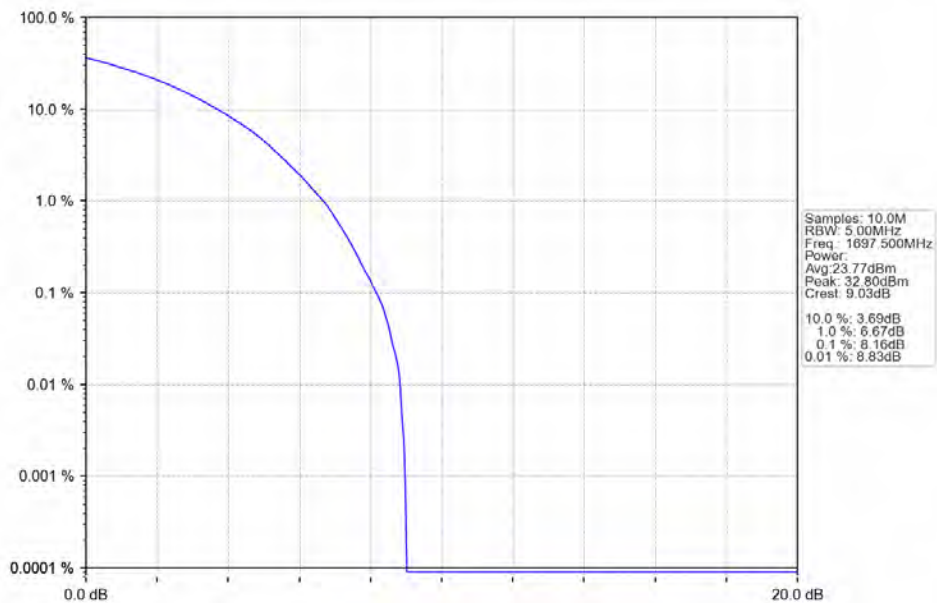
n70 15kHz SISO NTN 5MHz CP-OFDM QPSK 1702.5MHz Outer Full Ant1



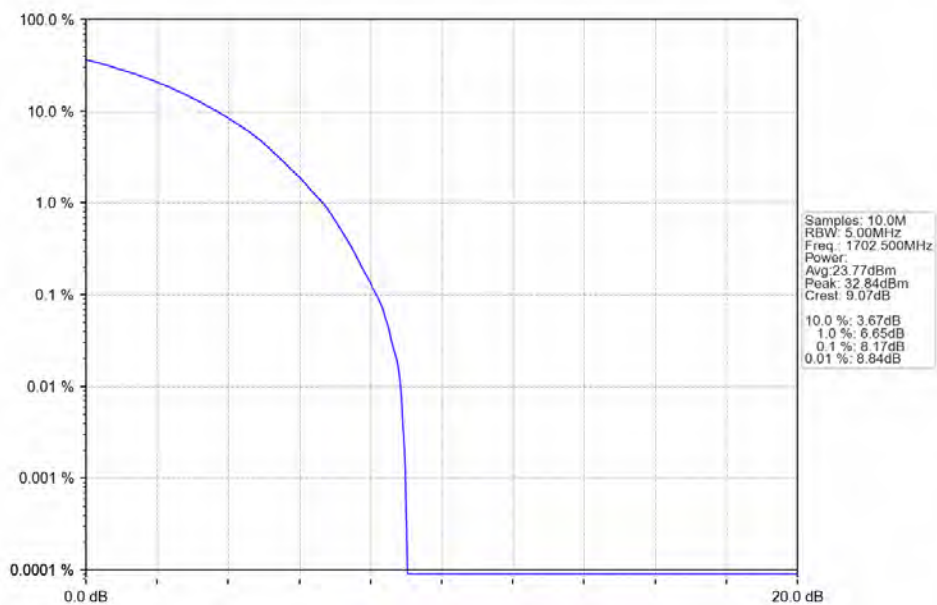
n70 15kHz SISO NTN 5MHz CP-OFDM QPSK 1707.5MHz Outer Full Ant1



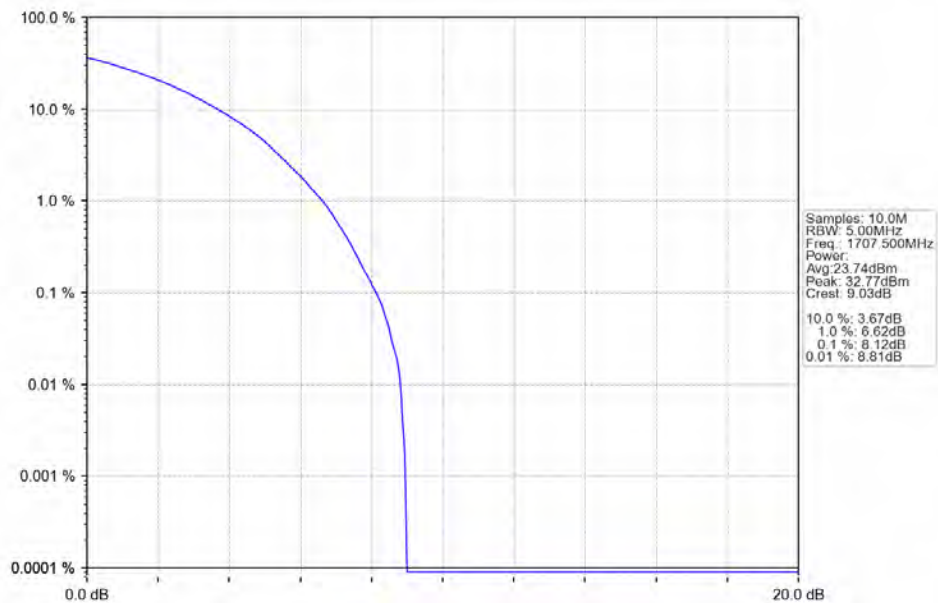
n70 15kHz SISO NTN 5MHz CP-OFDM 16 QAM 1697.5MHz Outer Full Ant1



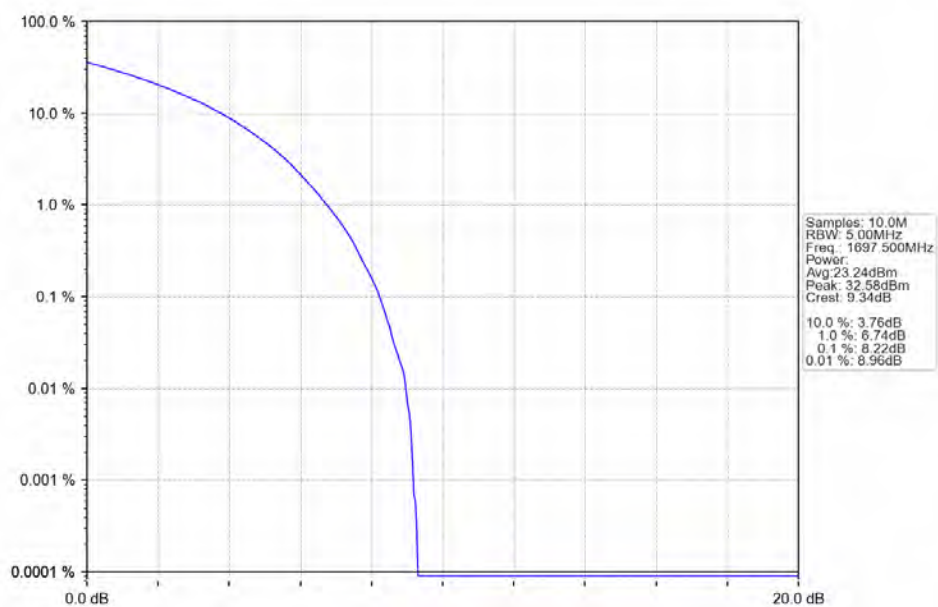
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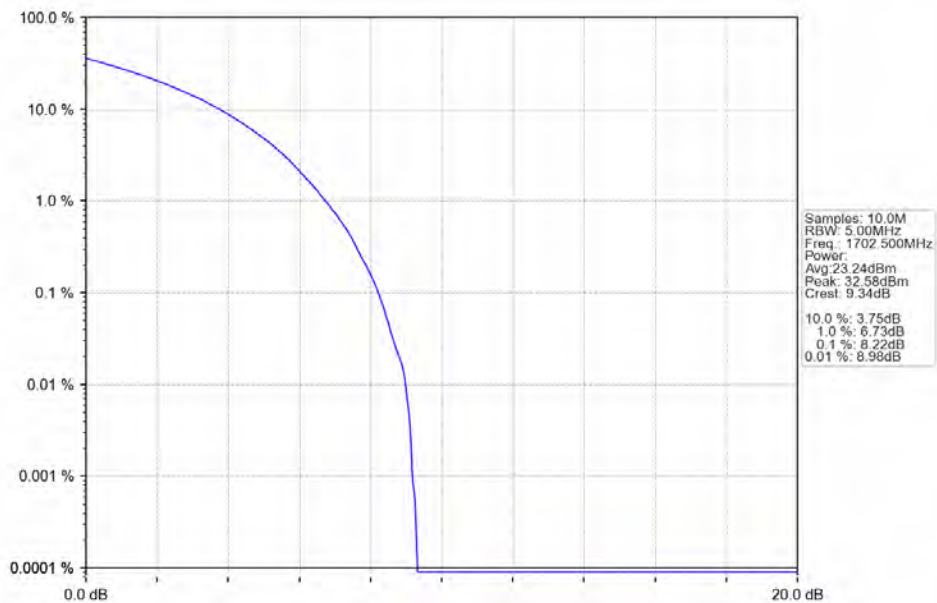
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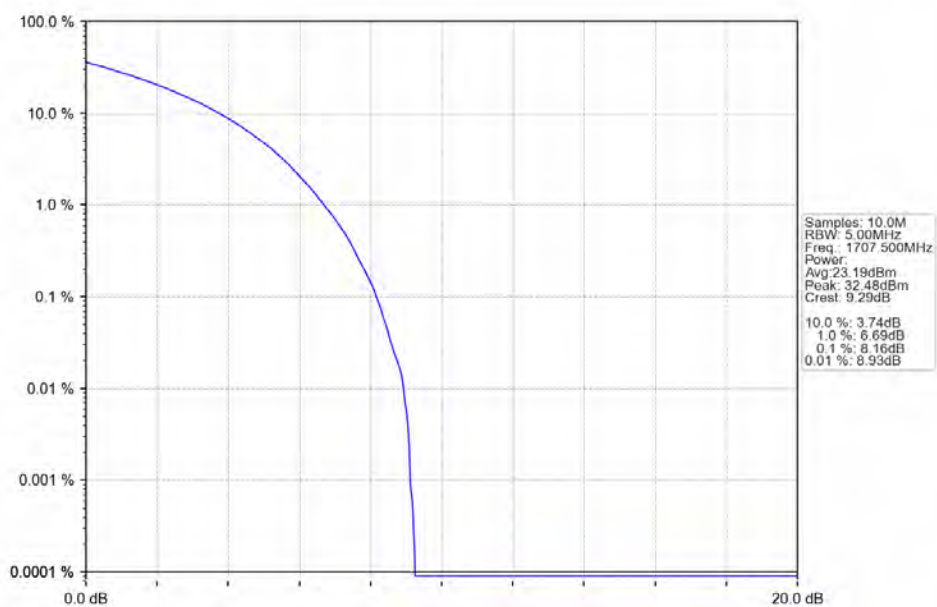
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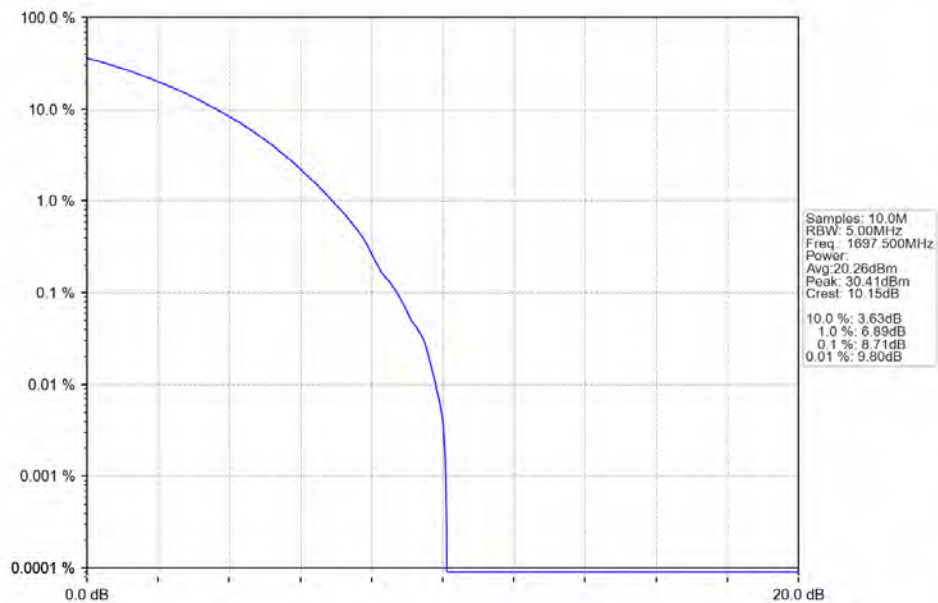
n70 15kHz SISO NTN 5MHz CP-OFDM 64 QAM 1702.5MHz Outer Full Ant1



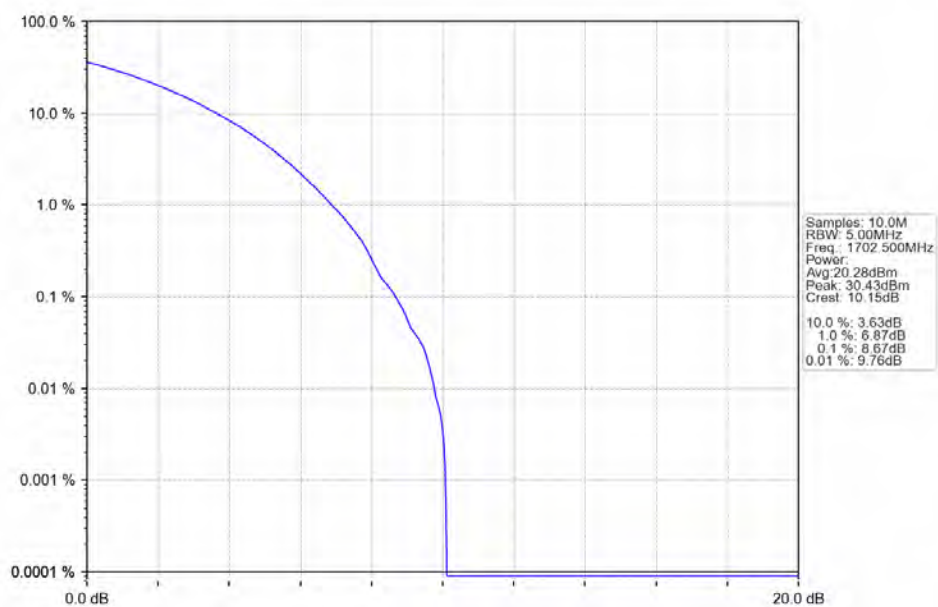
n70 15kHz SISO NTN 5MHz CP-OFDM 64 QAM 1707.5MHz Outer Full Ant1



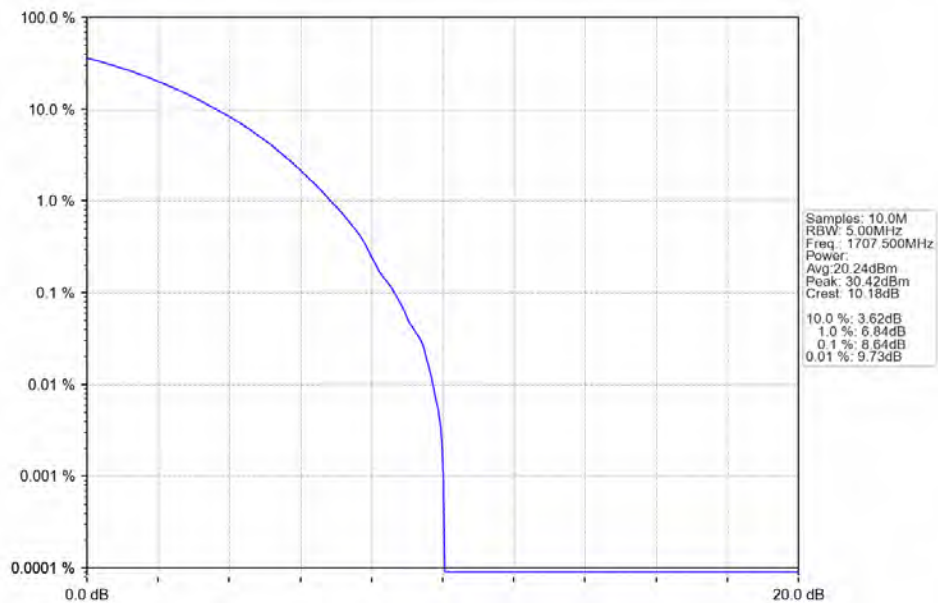
n70 15kHz SISO NTN 5MHz CP-OFDM 256 QAM 1697.5MHz Outer Full Ant1



n70 15kHz SISO NTN 5MHz CP-OFDM 256 QAM 1702.5MHz Outer Full Ant1

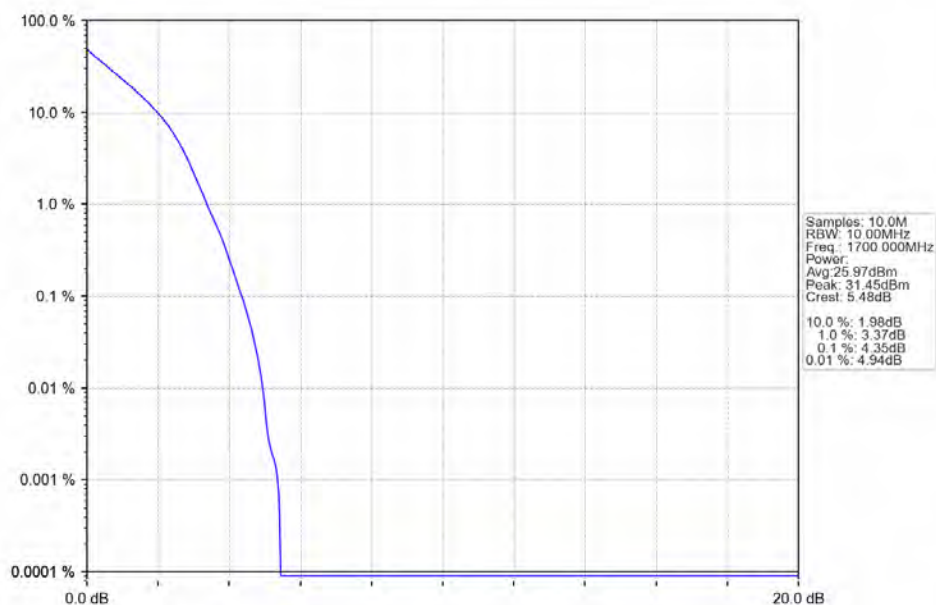


n70 15kHz SISO NTN 5MHz CP-OFDM 256 QAM 1707.5MHz Outer Full Ant1

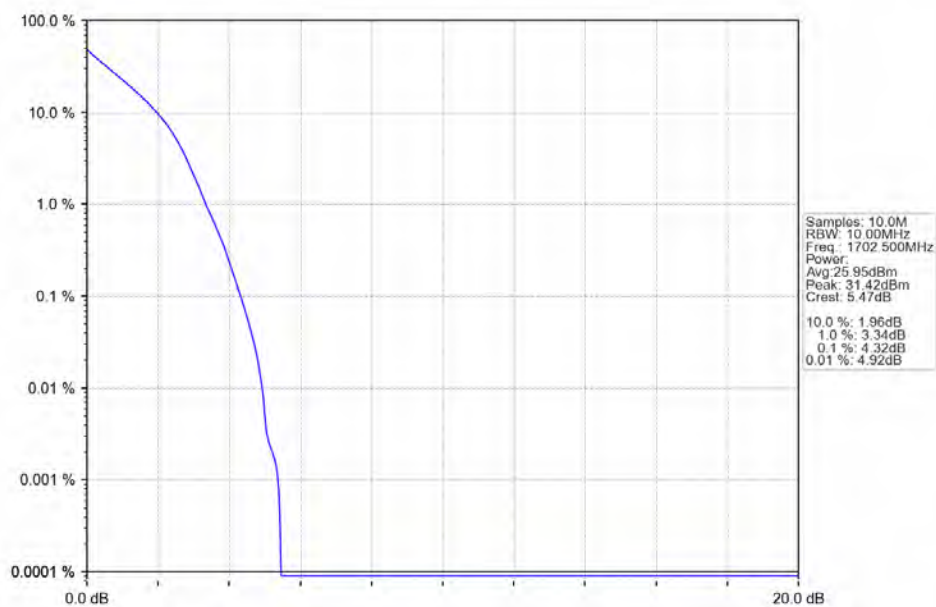


## 4.2.2 15k\_SISO\_10MHz\_NTNV

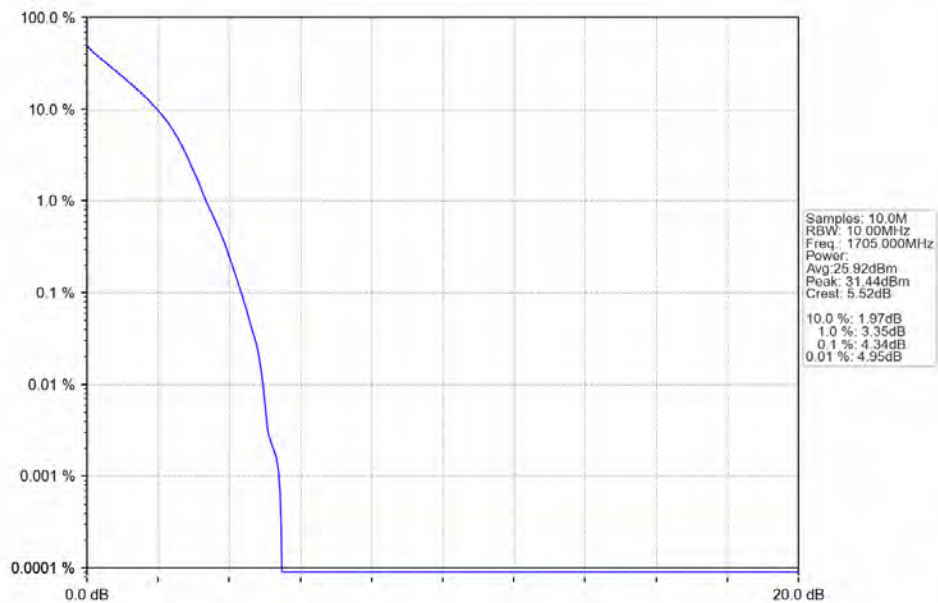
n70\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_1700MHz\_Outer\_Full\_Ant1



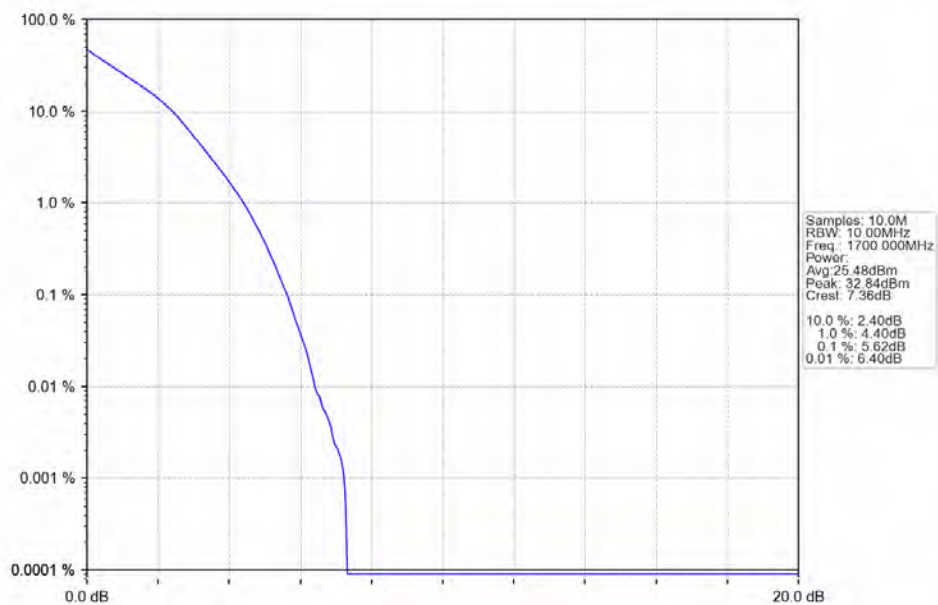
n70\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_1702.5MHz\_Outer\_Full\_Ant1



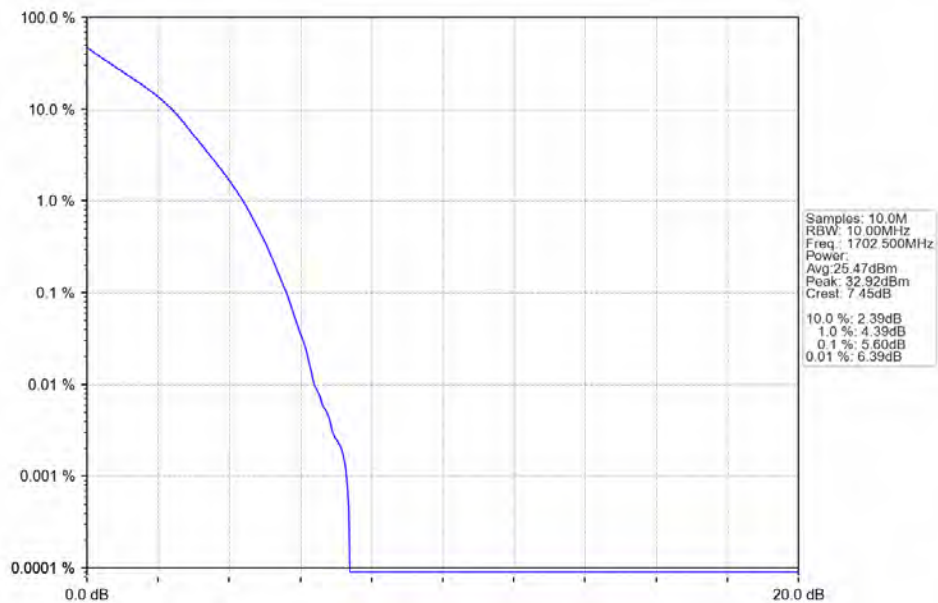
n70 15kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 1705MHz Outer Full Ant1



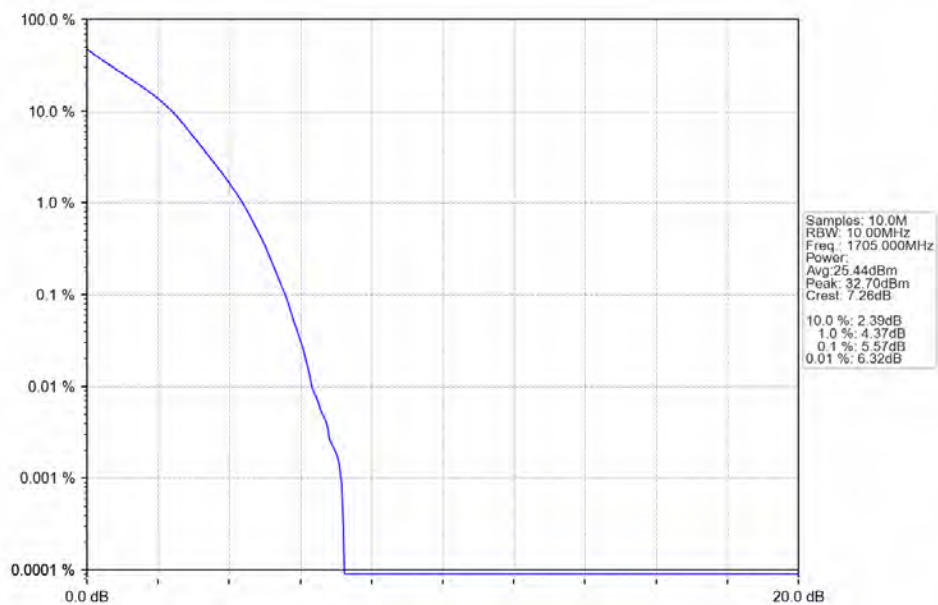
n70 15kHz SISO NTN 10MHz DFT-s-OFDM QPSK 1700MHz Outer Full Ant1



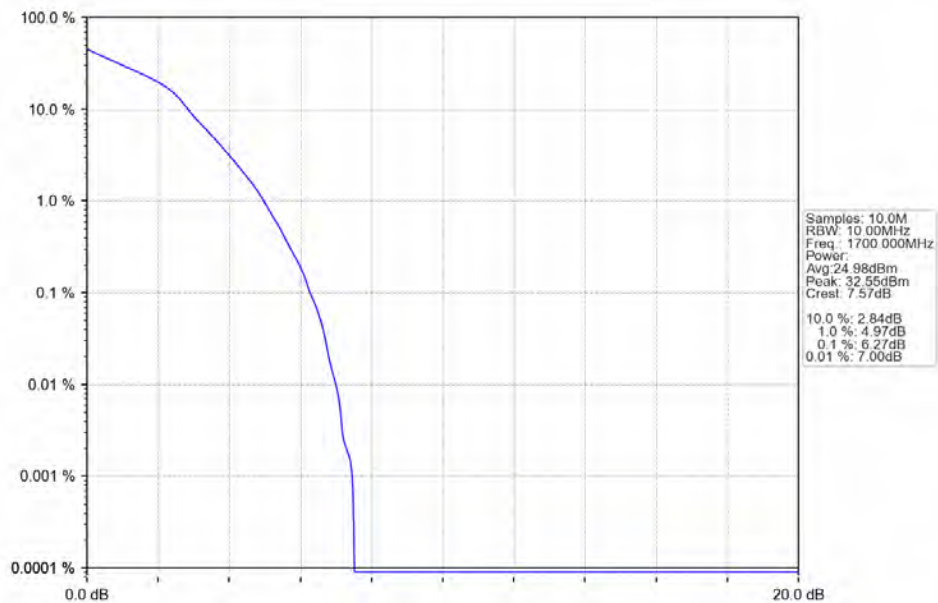
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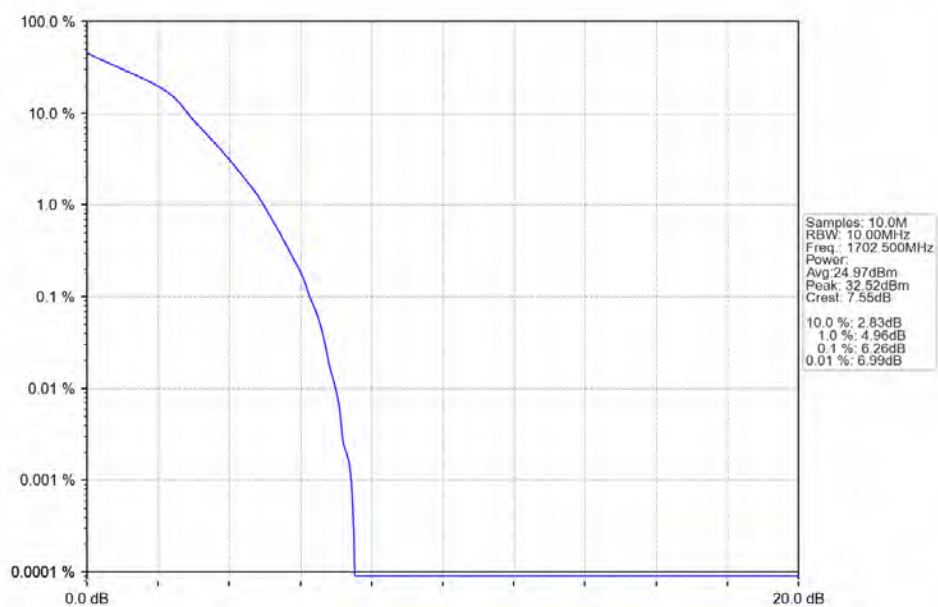
n70 15kHz SISO NTN 10MHz DFT-s-OFDM QPSK 1705MHz Outer Full Ant1



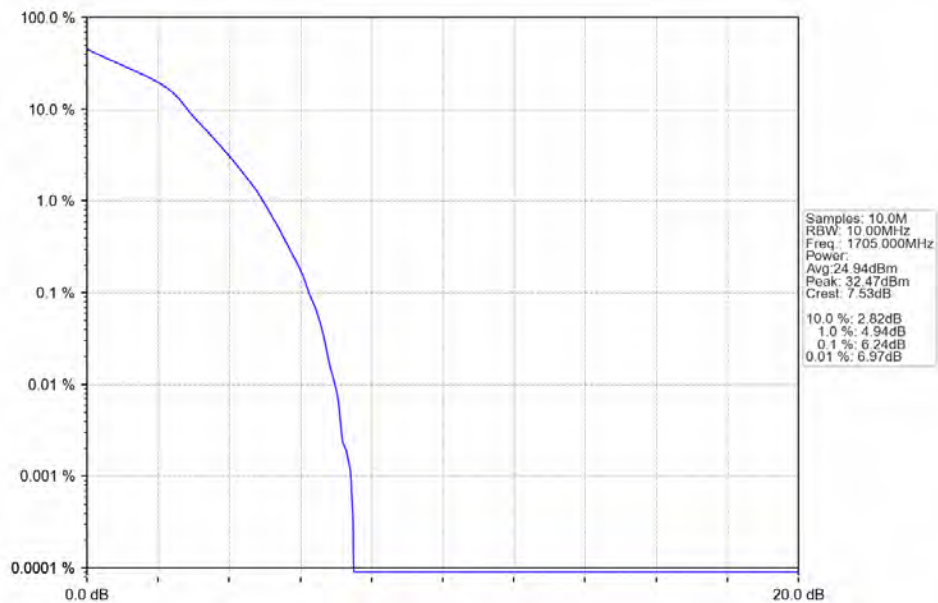
n70 15kHz SISO NTN 10MHz DFT-s-OFDM 16 QAM 1700MHz Outer Full Ant1



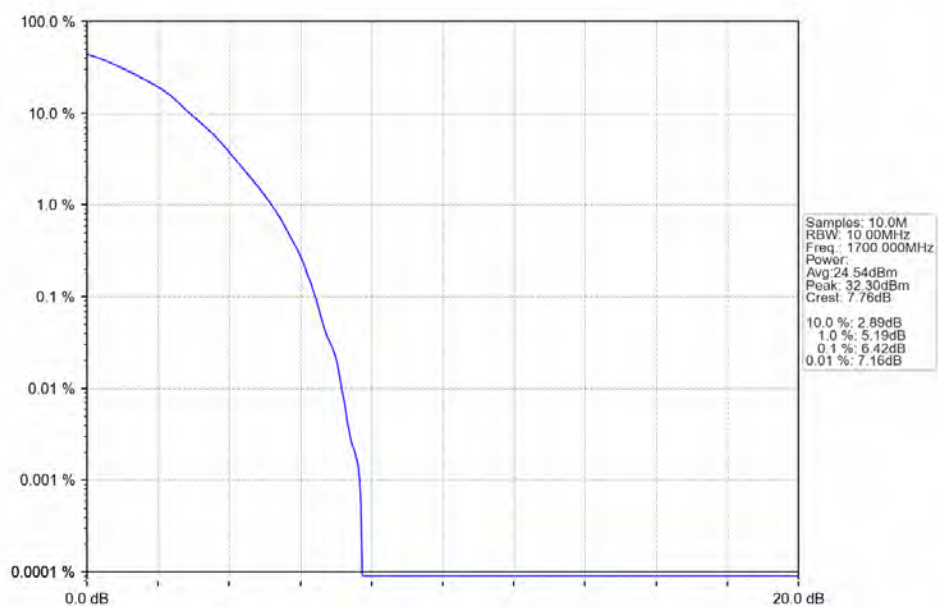
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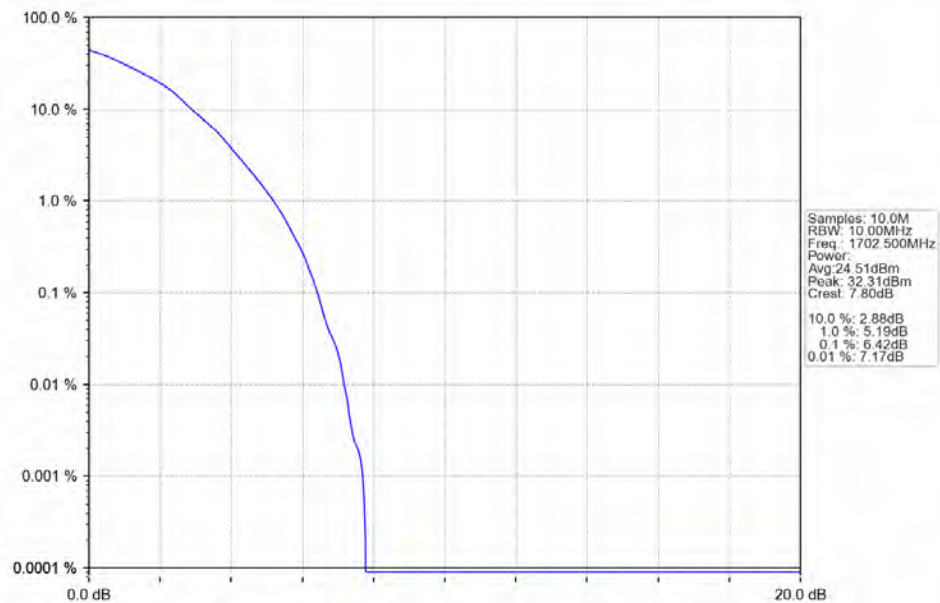
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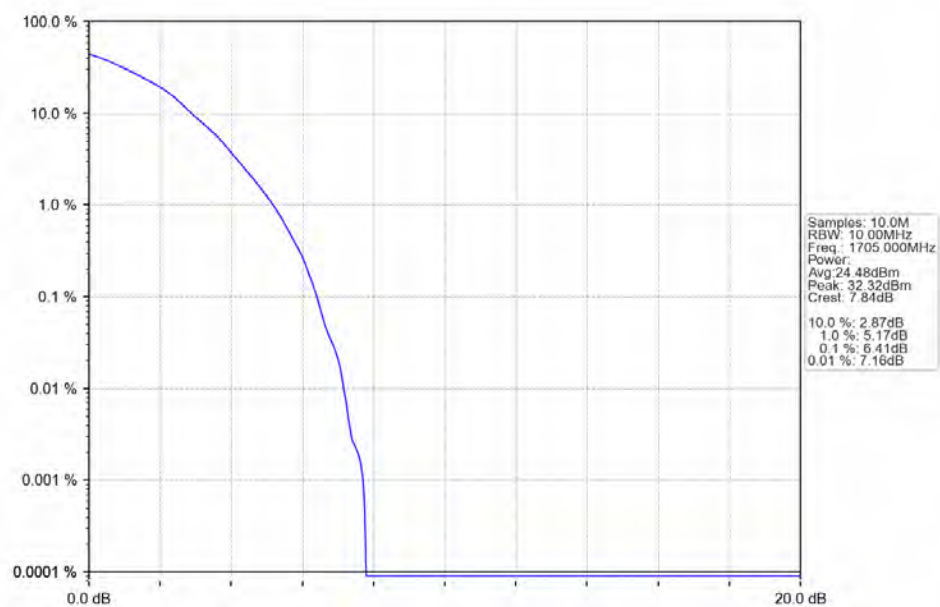
n70 15kHz SISO NTN 10MHz DFT-s-OFDM 64 QAM 1700MHz Outer Full Ant1



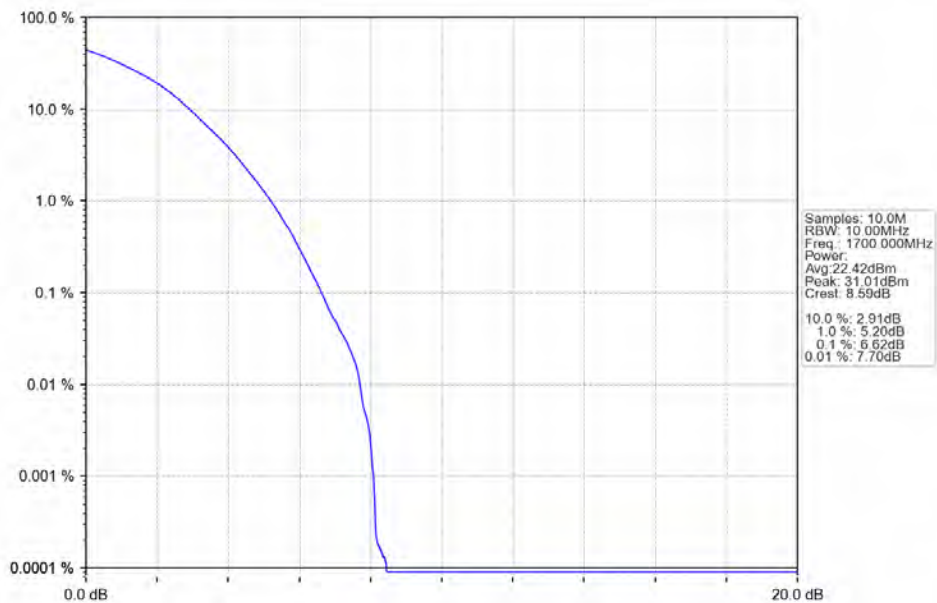
n70 15kHz SISO NTN 10MHz DFT-s-OFDM 64 QAM 1702.5MHz Outer Full Ant1



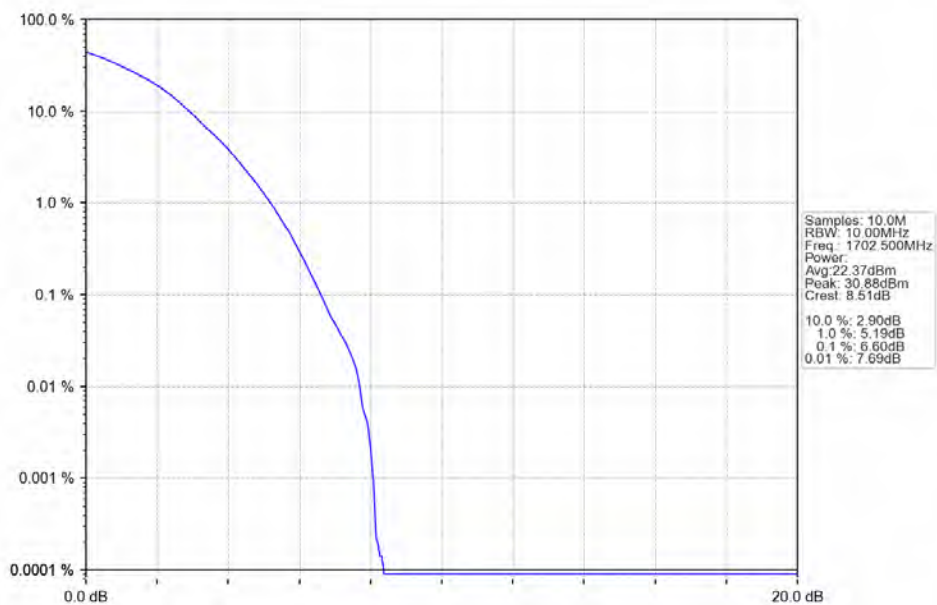
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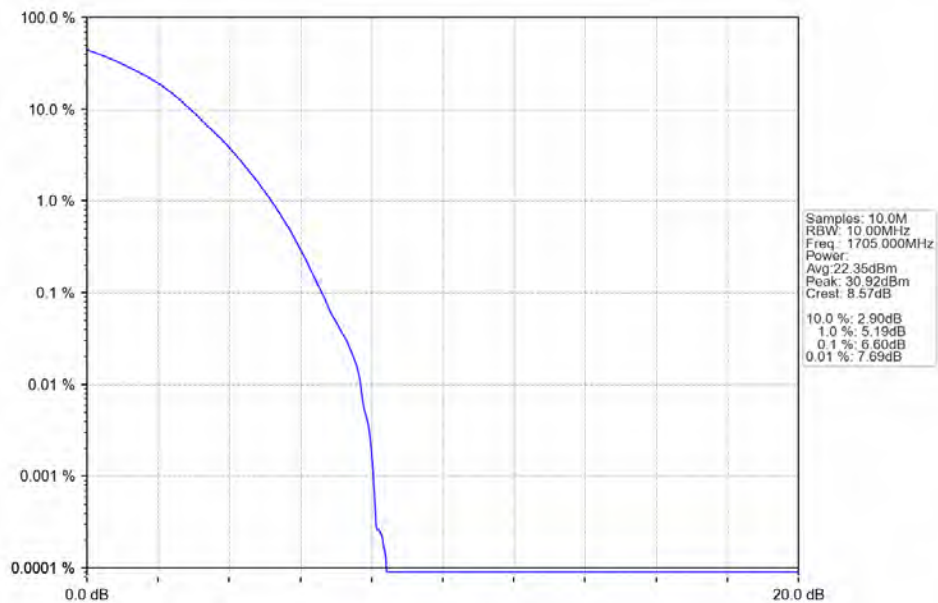
n70 15kHz SISO NTN 10MHz DFT-s-OFDM 256 QAM 1700MHz Outer Full Ant1



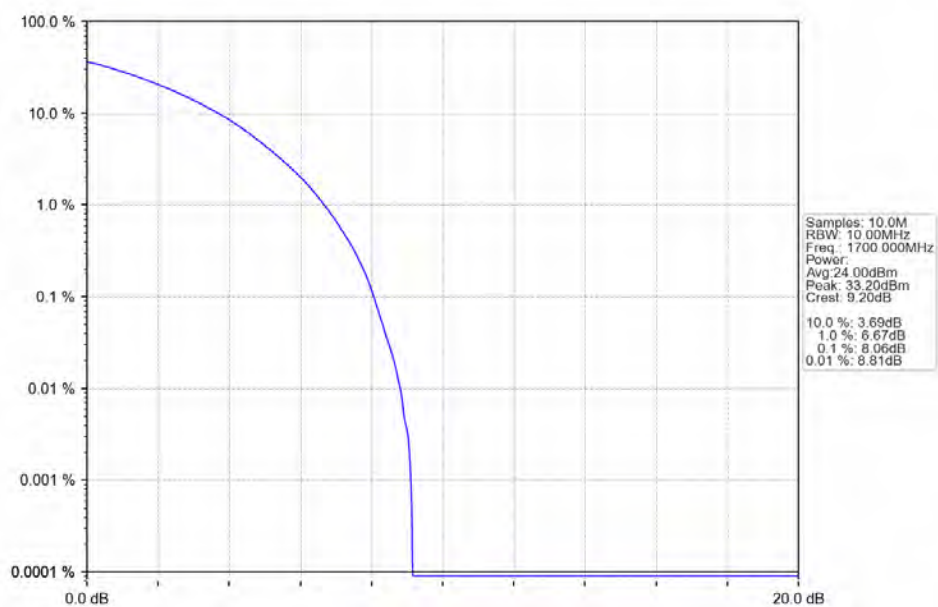
n70 15kHz SISO NTN 10MHz DFT-s-OFDM 256 QAM 1702.5MHz Outer Full Ant1



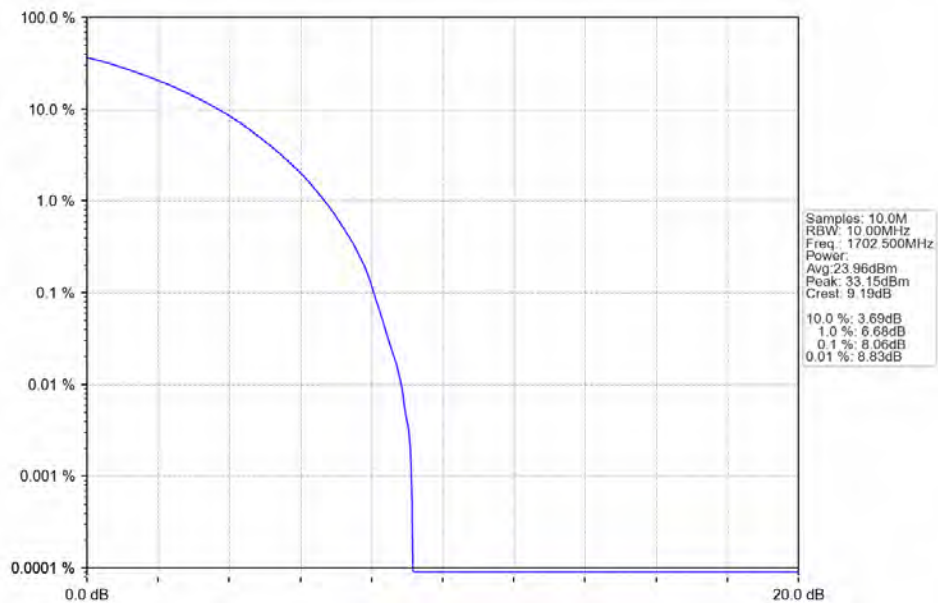
n70 15kHz SISO NTN 10MHz DFT-s-OFDM 256 QAM 1705MHz Outer Full Ant1



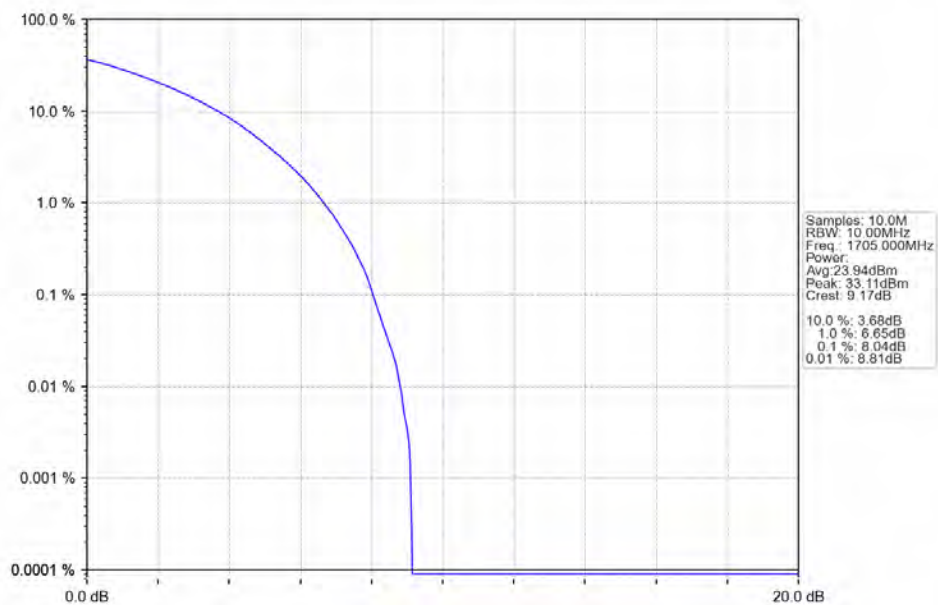
n70 15kHz SISO NTN 10MHz CP-OFDM QPSK 1700MHz Outer Full Ant1



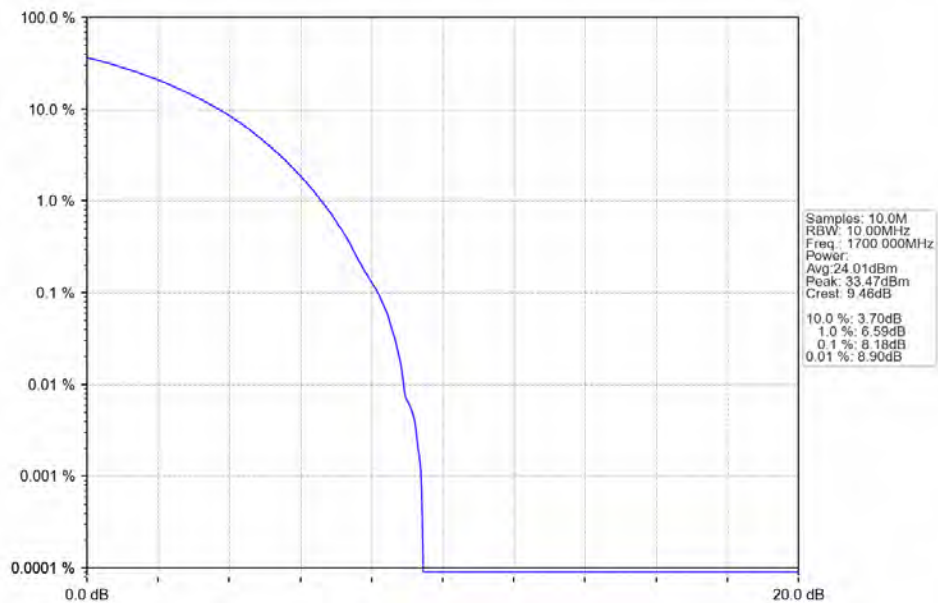
n70 15kHz SISO NTN 10MHz CP-OFDM QPSK 1702.5MHz Outer Full Ant1



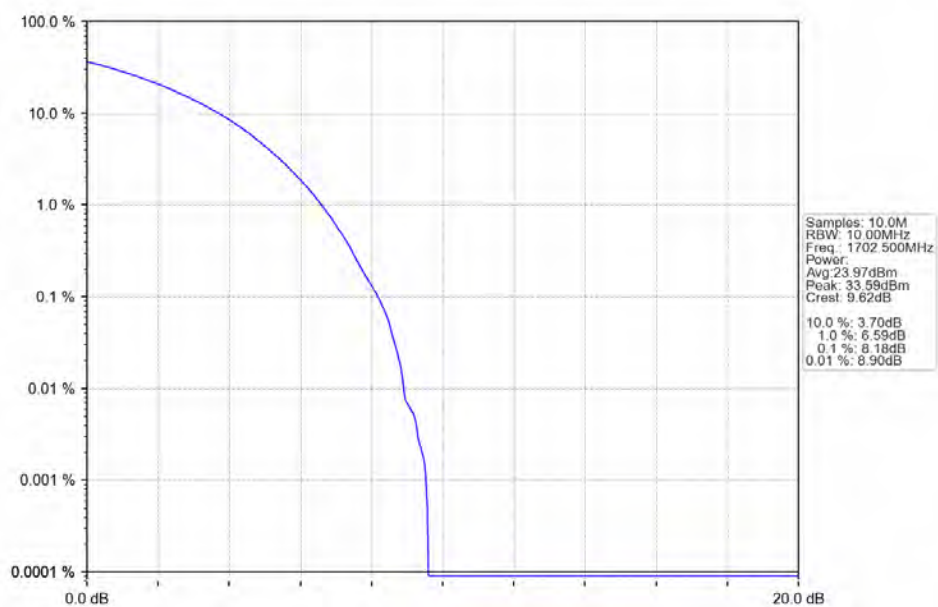
n70 15kHz SISO NTN 10MHz CP-OFDM QPSK 1705MHz Outer Full Ant1



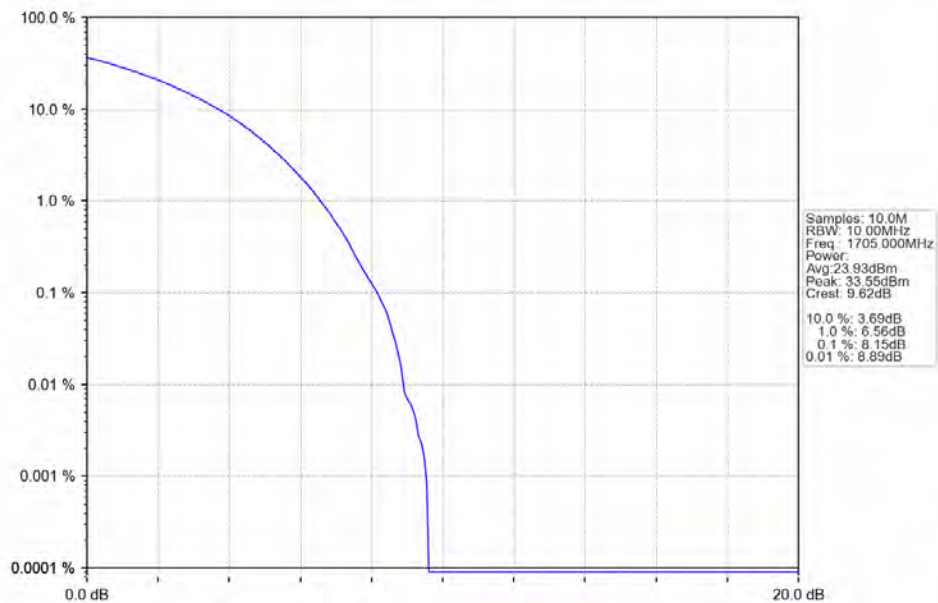
n70 15kHz SISO NTN 10MHz CP-OFDM 16 QAM 1700MHz Outer Full Ant1



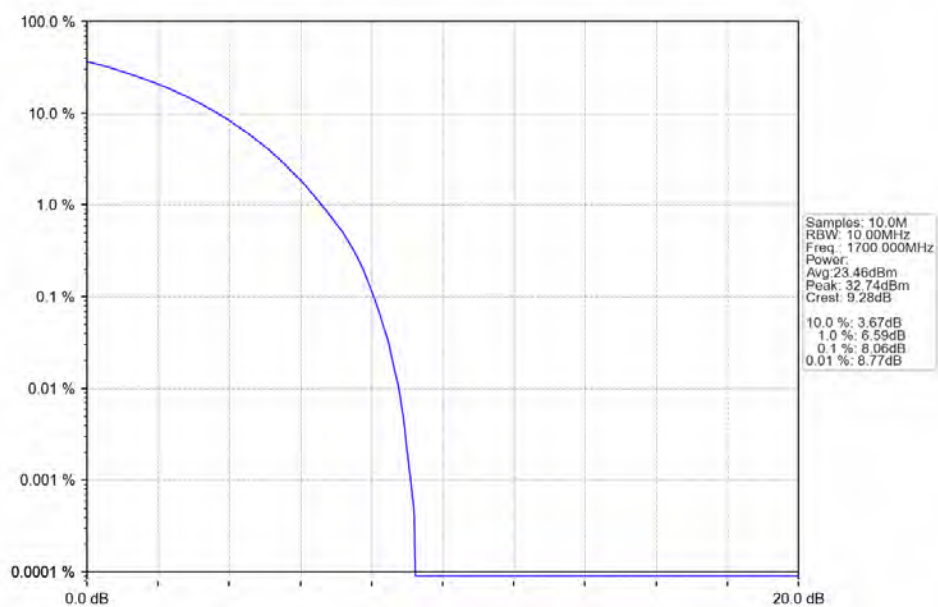
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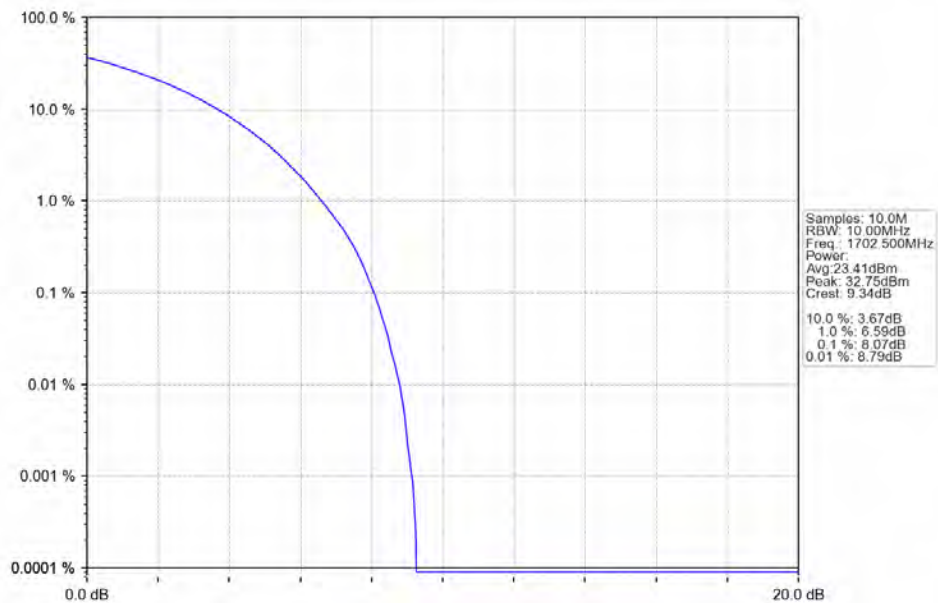
n70 15kHz SISO NTN 10MHz CP-OFDM 16 QAM 1705MHz Outer Full Ant1



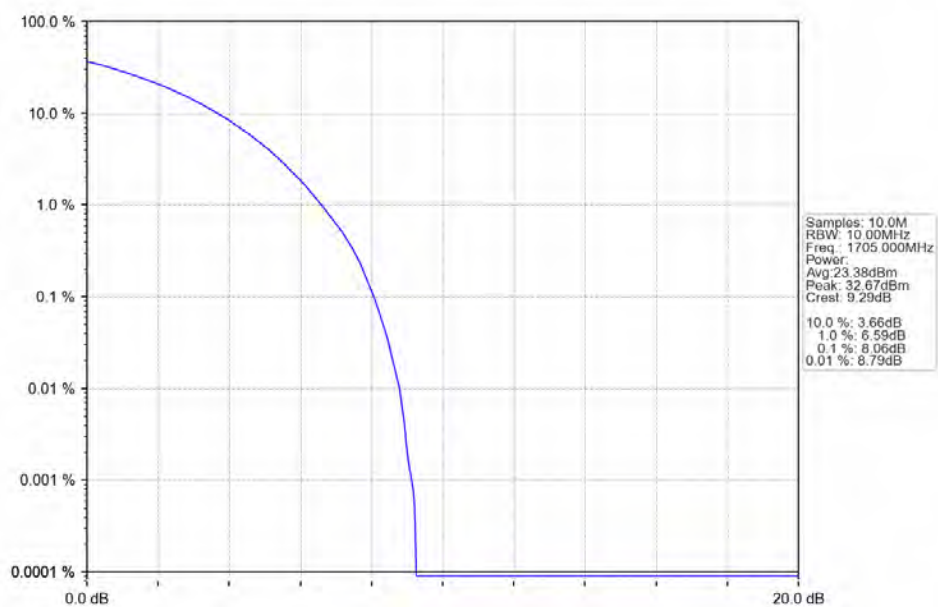
n70 15kHz SISO NTN 10MHz CP-OFDM 64 QAM 1700MHz Outer Full Ant1



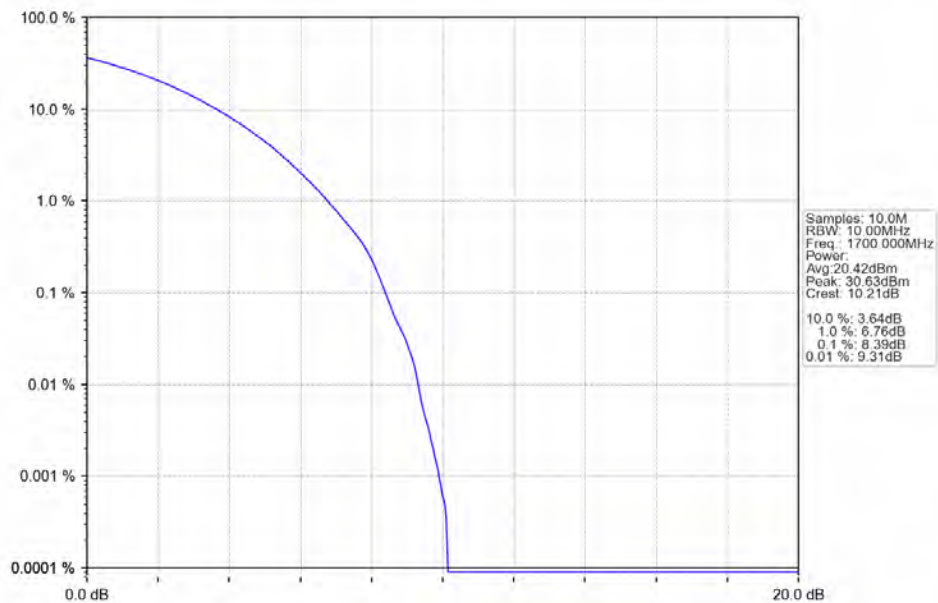
n70 15kHz SISO NTN 10MHz CP-OFDM 64 QAM 1702.5MHz Outer Full Ant1



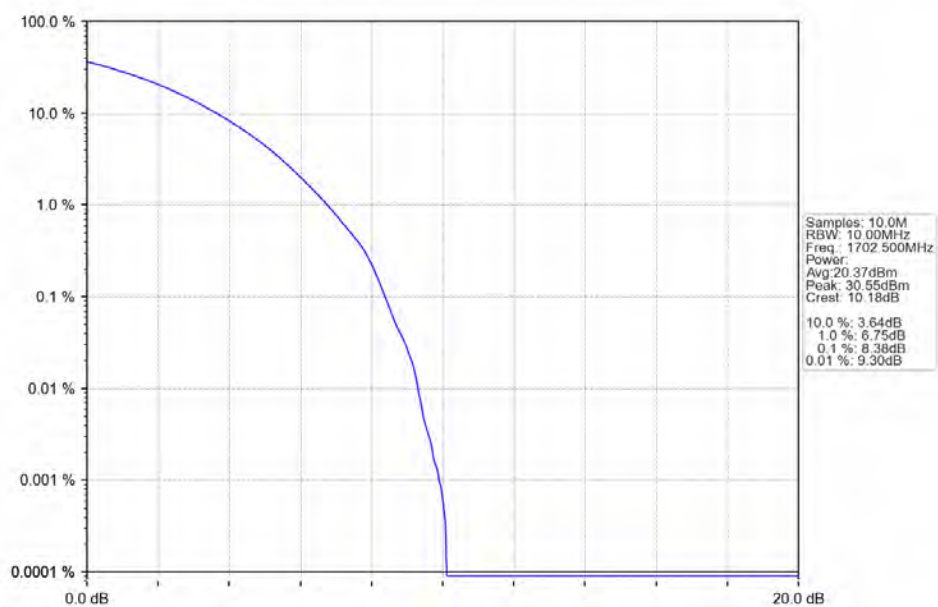
n70 15kHz SISO NTN 10MHz CP-OFDM 64 QAM 1705MHz Outer Full Ant1



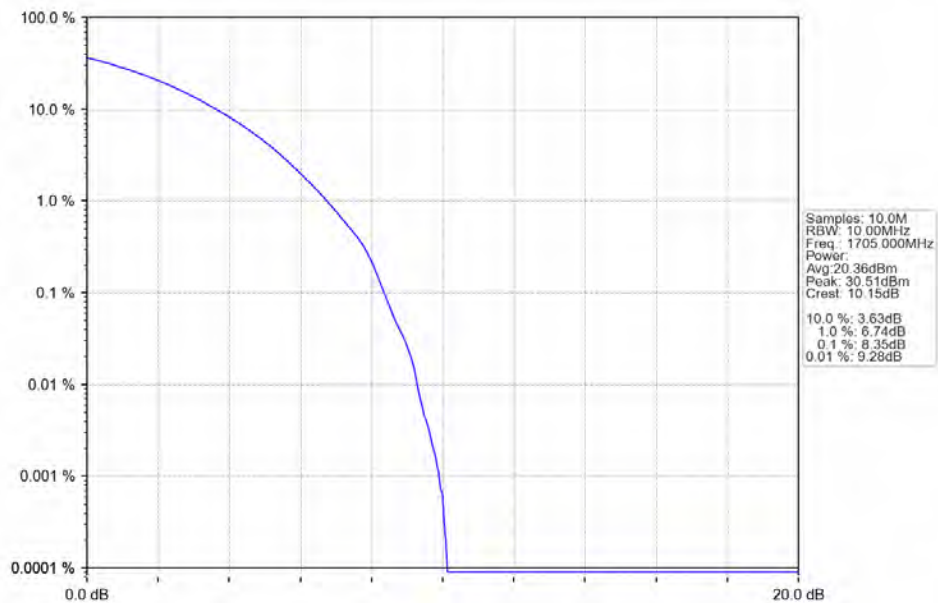
n70 15kHz SISO NTN 10MHz CP-OFDM 256 QAM 1700MHz Outer Full Ant1



n70 15kHz SISO NTN 10MHz CP-OFDM 256 QAM 1702.5MHz Outer Full Ant1

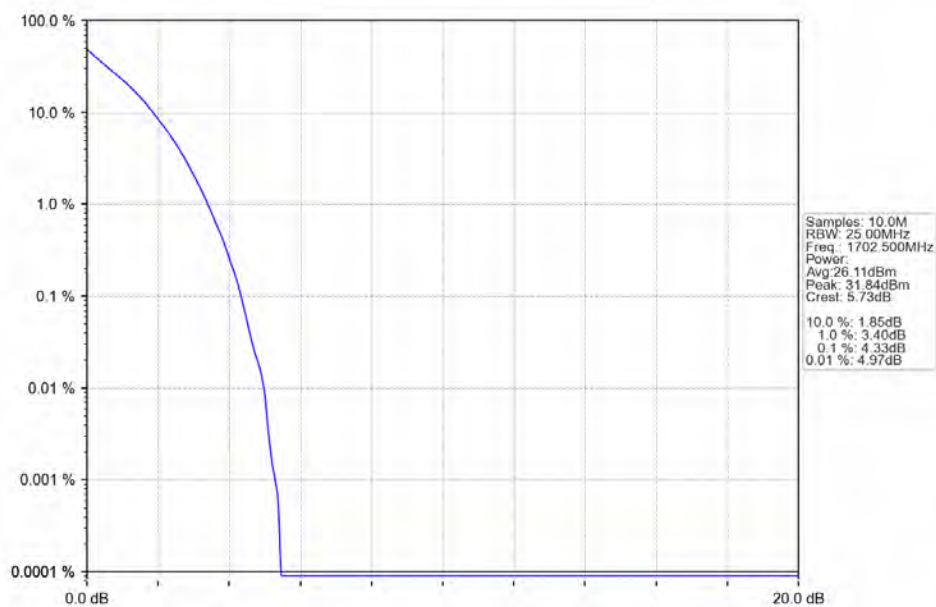


n70 15kHz SISO NTV 10MHz CP-OFDM 256 QAM 1705MHz Outer Full Ant1

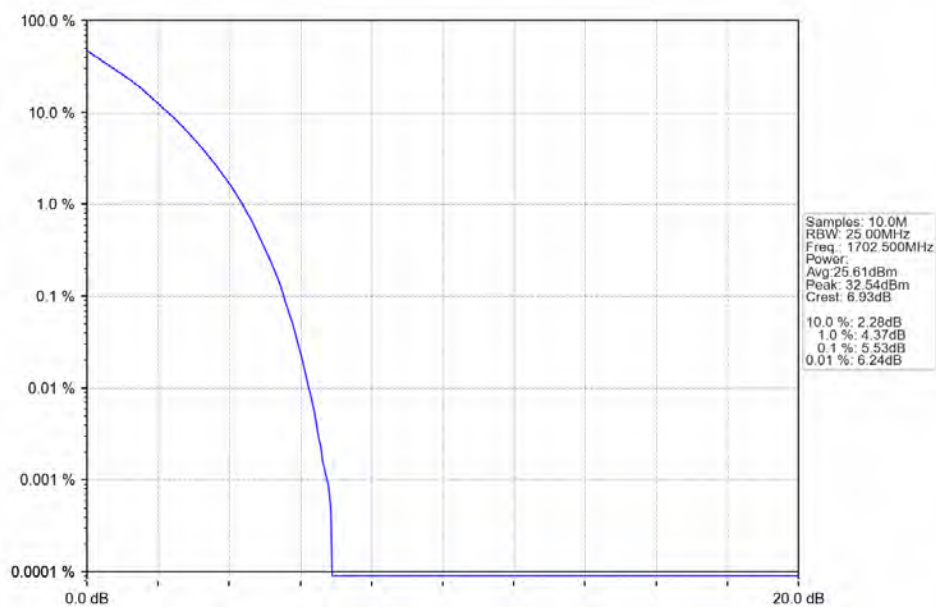


## 4.2.3 15k\_SISO\_15MHz\_NTNV

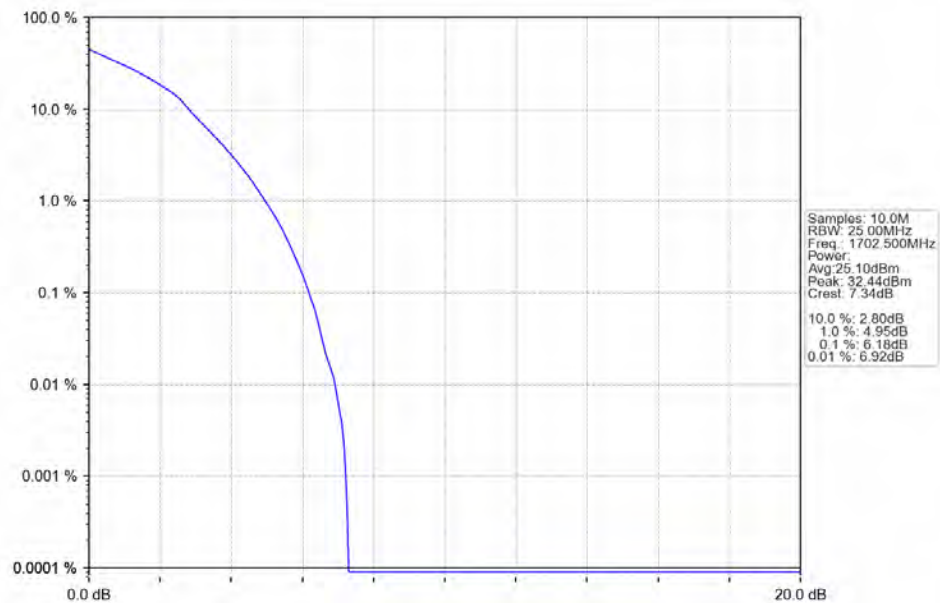
n70\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_1702.5MHz\_Outer\_Full\_Ant1



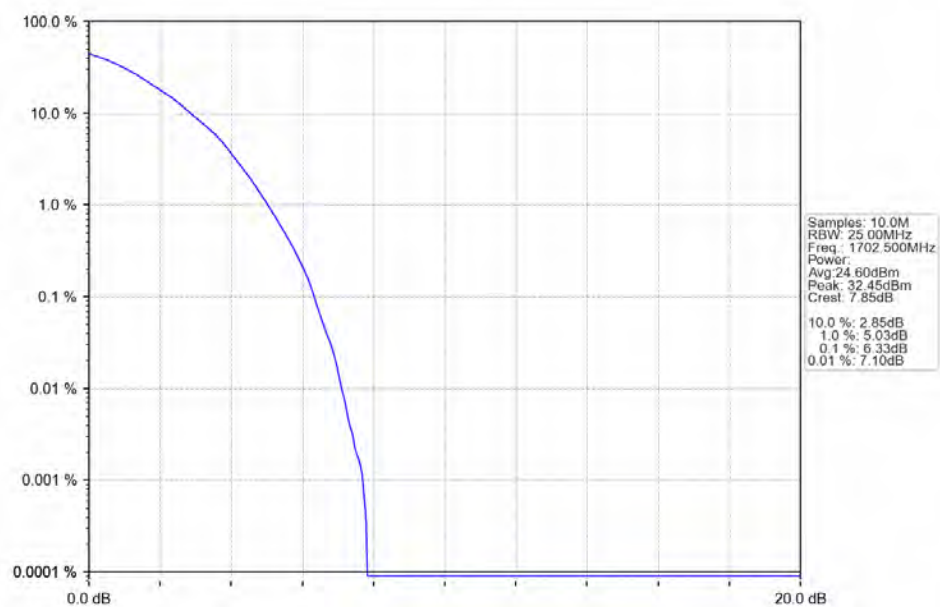
n70\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_1702.5MHz\_Outer\_Full\_Ant1



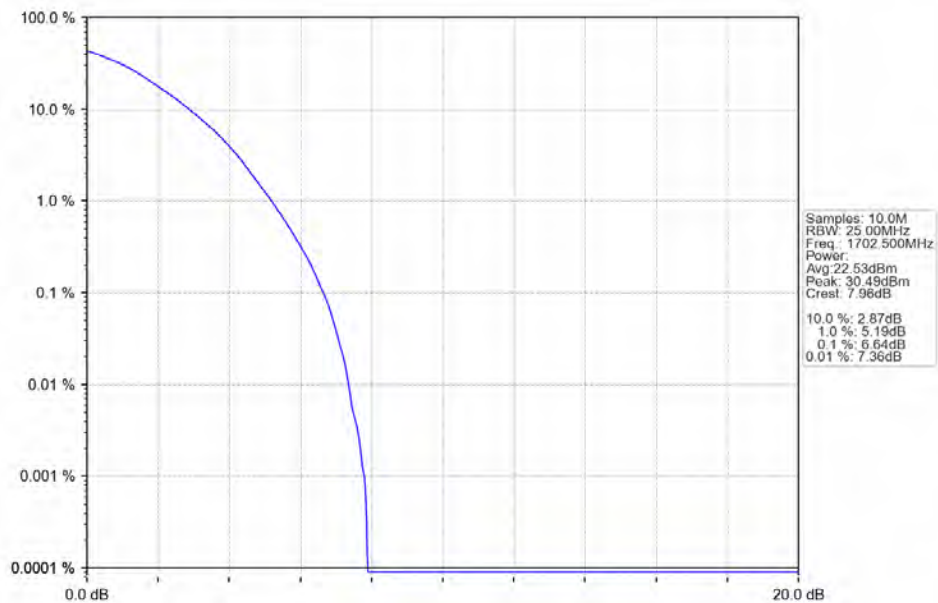
n70 15kHz SISO NTN 15MHz DFT-s-OFDM 16 QAM 1702.5MHz Outer Full Ant1



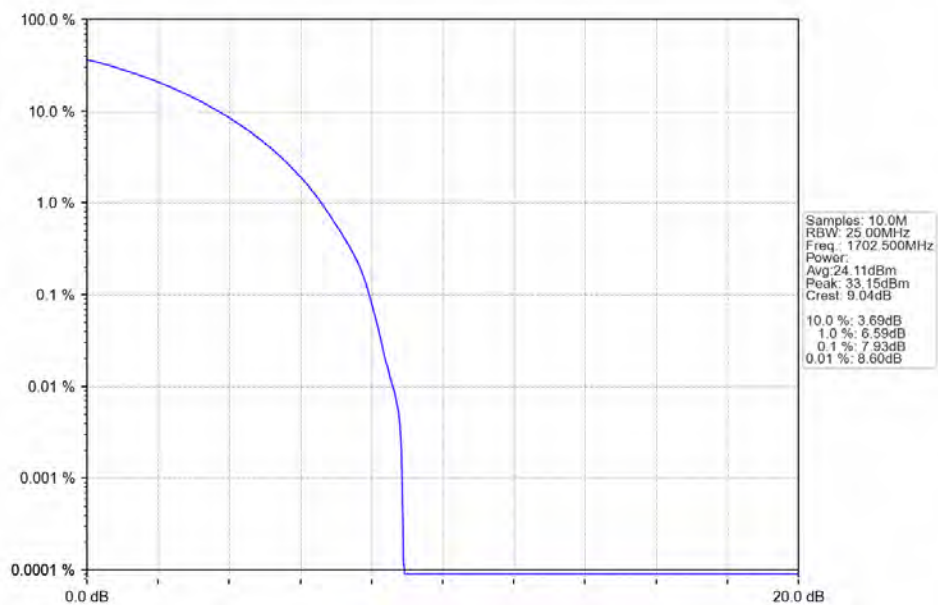
n70 15kHz SISO NTN 15MHz DFT-s-OFDM 64 QAM 1702.5MHz Outer Full Ant1



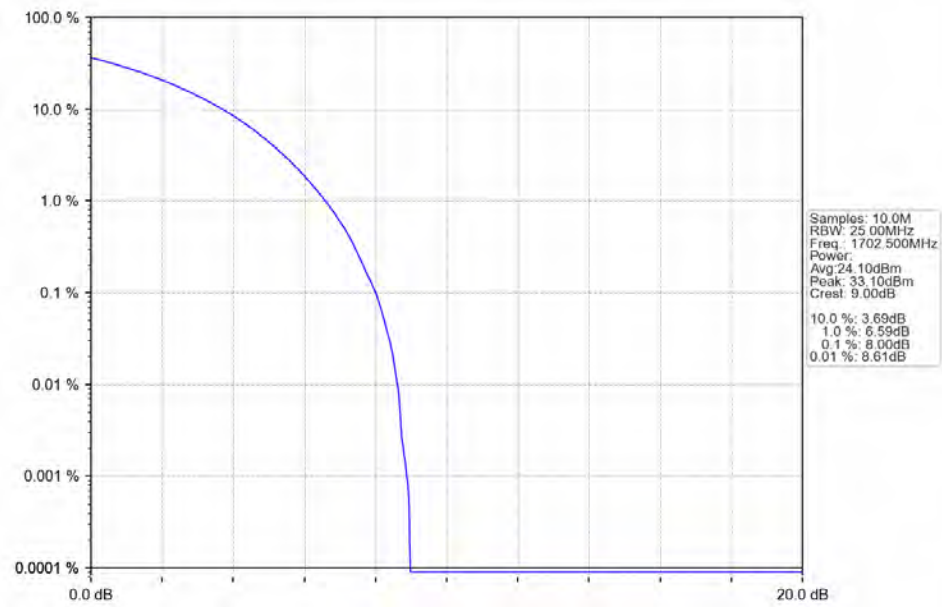
n70 15kHz SISO NTN 15MHz DFT-s-OFDM 256 QAM 1702.5MHz Outer Full Ant1



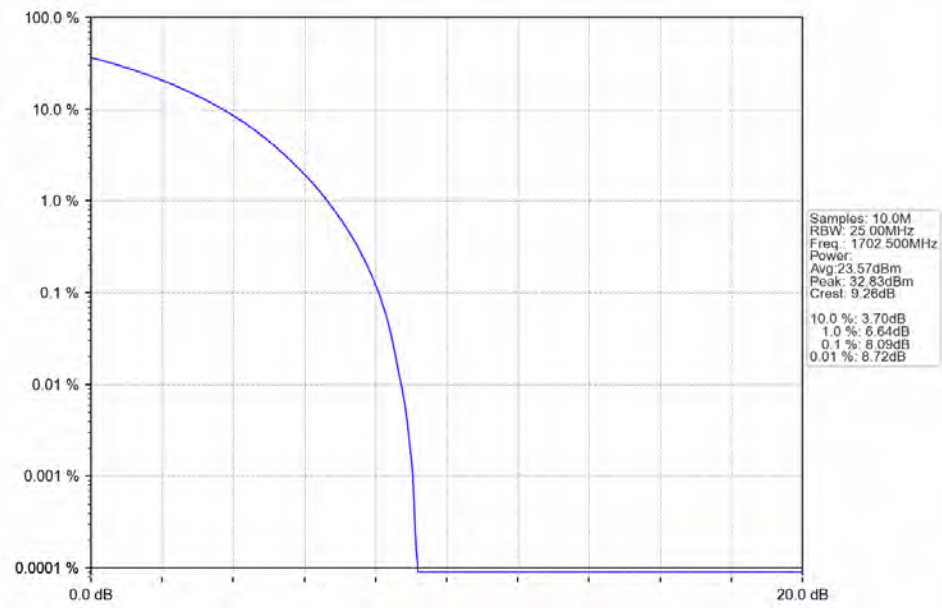
n70 15kHz SISO NTN 15MHz CP-OFDM QPSK 1702.5MHz Outer Full Ant1



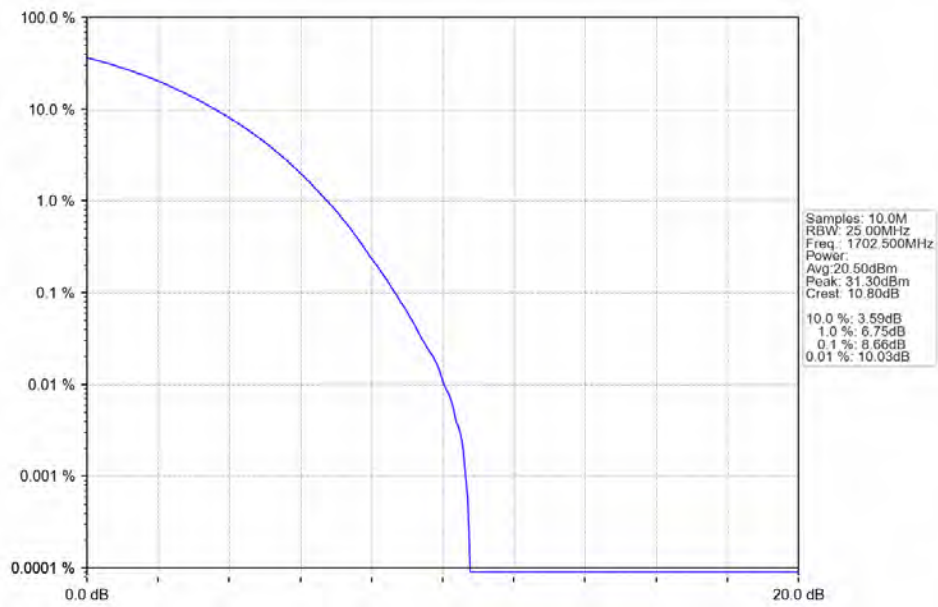
n70 15kHz SISO NTN 15MHz CP-OFDM 16 QAM 1702.5MHz Outer Full Ant1



n70 15kHz SISO NTN 15MHz CP-OFDM 64 QAM 1702.5MHz Outer Full Ant1



n70 15kHz SISO NTN 15MHz CP-OFDM 256 QAM 1702.5MHz Outer Full Ant1



## 5. Spurious Emission

### 5.1 Test Result

#### 5.1.1 15k\_SISO\_5MHz\_NTNV

| 5G NR n70 SCS=15kHz SISO 5MHz NTN |                 |                 |                     |      |     |       |         |
|-----------------------------------|-----------------|-----------------|---------------------|------|-----|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation   | Spurious Emission   |      |     |       | Verdict |
|                                   |                 |                 | Ant1                | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK              | 1697.5          | Edge_1RB_Left   | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 | Outer_Full      | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 | Inner_1RB_Left  | Refer To Test Graph |      |     |       | Pass    |
|                                   | 1702.5          | Edge_1RB_Left   | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 | Edge_1RB_Right  | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 | Outer_Full      | Refer To Test Graph |      |     |       | Pass    |
| DFT-s-OFDM QPSK                   | 1697.5          | Inner_1RB_Right | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 | Edge_1RB_Left   | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 | Outer_Full      | Refer To Test Graph |      |     |       | Pass    |
|                                   | 1702.5          | Inner_1RB_Left  | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 | Edge_1RB_Left   | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 | Edge_1RB_Right  | Refer To Test Graph |      |     |       | Pass    |
| CP-OFDM QPSK                      | 1707.5          | Outer_Full      | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 | Inner_1RB_Right | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 | Edge_1RB_Left   | Refer To Test Graph |      |     |       | Pass    |
|                                   | 1697.5          | Outer_Full      | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 | Inner_1RB_Left  | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 | Edge_1RB_Left   | Refer To Test Graph |      |     |       | Pass    |

#### 5.1.2 15k\_SISO\_10MHz\_NTNV

| 5G NR n70 SCS=15kHz SISO 10MHz NTN |                 |                 |                     |                     |     |       |         |      |
|------------------------------------|-----------------|-----------------|---------------------|---------------------|-----|-------|---------|------|
| Modulation                         | Frequency (MHz) | RB Allocation   | Spurious Emission   |                     |     |       | Verdict |      |
|                                    |                 |                 | Ant1                | Ant2                | Sum | Limit |         |      |
| DFT-s-OFDM PI/2 BPSK               | 1700            | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                    |                 | Outer_Full      | Refer To Test Graph |                     |     |       | Pass    |      |
|                                    |                 | Inner_1RB_Left  | Refer To Test Graph |                     |     |       | Pass    |      |
|                                    | 1702.5          | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                    |                 | 1705            | Edge_1RB_Right      | Refer To Test Graph |     |       |         | Pass |
|                                    |                 |                 | Outer_Full          | Refer To Test Graph |     |       |         | Pass |
| DFT-s-OFDM QPSK                    | 1700            |                 | Inner_1RB_Right     | Refer To Test Graph |     |       |         | Pass |
|                                    |                 | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                    |                 | Outer_Full      | Refer To Test Graph |                     |     |       | Pass    |      |
|                                    | 1702.5          | Inner_1RB_Left  | Refer To Test Graph |                     |     |       | Pass    |      |
|                                    |                 | 1705            | Edge_1RB_Left       | Refer To Test Graph |     |       |         | Pass |
|                                    |                 |                 | Edge_1RB_Right      | Refer To Test Graph |     |       |         | Pass |
| CP-OFDM QPSK                       | 1700            |                 | Outer_Full          | Refer To Test Graph |     |       |         | Pass |
|                                    |                 | Inner_1RB_Right | Refer To Test Graph |                     |     |       | Pass    |      |
|                                    |                 | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                    | 1702.5          | Outer_Full      | Refer To Test Graph |                     |     |       | Pass    |      |
|                                    |                 | Inner_1RB_Left  | Refer To Test Graph |                     |     |       | Pass    |      |
|                                    |                 | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |

|  |      |                 |                     |      |
|--|------|-----------------|---------------------|------|
|  | 1705 | Edge_1RB_Right  | Refer To Test Graph | Pass |
|  |      | Outer_Full      | Refer To Test Graph | Pass |
|  |      | Inner_1RB_Right | Refer To Test Graph | Pass |

## 5.1.3 15k\_SISO\_15MHz\_NTNV

| 5G NR n70 SCS=15kHz SISO 15MHz NTN |                 |                |                     |      |     |       |         |
|------------------------------------|-----------------|----------------|---------------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation  | Spurious Emission   |      |     |       | Verdict |
|                                    |                 |                | Ant1                | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 1702.5          | Edge 1RB Left  | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Outer Full     | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Inner 1RB Left | Refer To Test Graph |      |     |       | Pass    |
| DFT-s-OFDM QPSK                    | 1702.5          | Edge 1RB Left  | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Outer Full     | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Inner 1RB Left | Refer To Test Graph |      |     |       | Pass    |
| CP-OFDM QPSK                       | 1702.5          | Edge 1RB Left  | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Outer Full     | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Inner 1RB Left | Refer To Test Graph |      |     |       | Pass    |

## 5.1.4 15k\_MIMO\_5MHz\_NTNV

| 5G NR n70 SCS=15kHz MIMO 5MHz NTN |                 |                     |                     |      |     |       |         |
|-----------------------------------|-----------------|---------------------|---------------------|------|-----|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation       | Spurious Emission   |      |     |       | Verdict |
|                                   |                 |                     | Ant1                | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK              | 1697.5          | Edge_1RB_Left       | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 | Outer_Full          | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 | Inner_1RB_Left      | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                   | 1707.5          | Edge_1RB_Right      | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 | Outer_Full          | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 | Inner_1RB_Right     | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
| DFT-s-OFDM QPSK                   | 1697.5          | Edge_1RB_Left       | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 | Outer_Full          | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 | Inner_1RB_Left      | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                   | 1707.5          | Edge_1RB_Right      | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                   |                 |                     | Refer To Test Graph |      |     |       | Pass    |
| Outer_Full                        |                 | Refer To Test Graph |                     |      |     | Pass  |         |
|                                   |                 | Refer To Test Graph |                     |      |     | Pass  |         |

|              |        |                 |                     |      |
|--------------|--------|-----------------|---------------------|------|
| CP-OFDM QPSK |        | Inner_1RB_Right | Refer To Test Graph | Pass |
|              |        |                 | Refer To Test Graph | Pass |
|              |        |                 | Refer To Test Graph | Pass |
|              |        |                 | Refer To Test Graph | Pass |
|              | 1697.5 | Edge_1RB_Left   | Refer To Test Graph | Pass |
|              |        |                 | Refer To Test Graph | Pass |
|              |        |                 | Refer To Test Graph | Pass |
|              |        | Outer_Full      | Refer To Test Graph | Pass |
|              |        |                 | Refer To Test Graph | Pass |
|              |        |                 | Refer To Test Graph | Pass |
|              |        | Inner_1RB_Left  | Refer To Test Graph | Pass |
|              |        |                 | Refer To Test Graph | Pass |
|              |        |                 | Refer To Test Graph | Pass |
|              | 1707.5 | Edge_1RB_Right  | Refer To Test Graph | Pass |
|              |        |                 | Refer To Test Graph | Pass |
|              |        |                 | Refer To Test Graph | Pass |
|              |        | Outer_Full      | Refer To Test Graph | Pass |
|              |        |                 | Refer To Test Graph | Pass |
|              |        |                 | Refer To Test Graph | Pass |
|              |        | Inner_1RB_Right | Refer To Test Graph | Pass |
|              |        |                 | Refer To Test Graph | Pass |
|              |        |                 | Refer To Test Graph | Pass |

## 5.1.5 15k\_MIMO\_10MHz\_NTNV

| 5G NR n70 SCS=15kHz MIMO 10MHz NTN |                 |                 |                     |      |     |       |         |
|------------------------------------|-----------------|-----------------|---------------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation   | Spurious Emission   |      |     |       | Verdict |
|                                    |                 |                 | Ant1                | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 1700            | Edge_1RB_Left   | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Outer_Full      | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Inner_1RB_Left  | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                    | 1705            | Edge_1RB_Right  | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Outer_Full      | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Inner_1RB_Right | Refer To Test Graph |      |     |       | Pass    |
| Refer To Test Graph                |                 |                 |                     | Pass |     |       |         |
| Refer To Test Graph                |                 |                 |                     | Pass |     |       |         |
| DFT-s-OFDM QPSK                    | 1700            | Edge_1RB_Left   | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Outer_Full      | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Inner_1RB_Left  | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                    | 1705            | Edge_1RB_Right  | Refer To Test Graph |      |     |       | Pass    |
| Refer To Test Graph                |                 |                 |                     | Pass |     |       |         |

|              |      |                 |                     |      |
|--------------|------|-----------------|---------------------|------|
|              |      | Outer_Full      | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      | Inner_1RB_Right | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
| CP-OFDM QPSK | 1700 | Edge_1RB_Left   | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      | Outer_Full      | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      | Inner_1RB_Left  | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              | 1705 | Edge_1RB_Right  | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      | Outer_Full      | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      | Inner_1RB_Right | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |
|              |      |                 | Refer To Test Graph | Pass |

## 5.1.6 15k\_MIMO\_15MHz\_NTNV

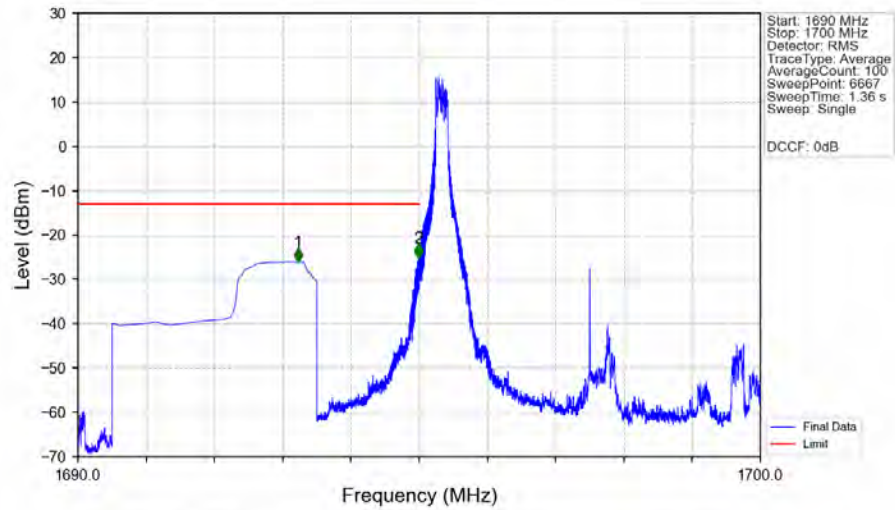
| 5G NR n70 SCS=15kHz MIMO 15MHz NTN |                 |                |                     |      |     |       |         |
|------------------------------------|-----------------|----------------|---------------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation  | Spurious Emission   |      |     |       | Verdict |
|                                    |                 |                | Ant1                | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 1702.5          | Edge_1RB_Left  | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Outer_Full     | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Inner_1RB_Left | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                | Refer To Test Graph |      |     |       | Pass    |
| DFT-s-OFDM QPSK                    | 1702.5          | Edge_1RB_Left  | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Outer_Full     | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Inner_1RB_Left | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                | Refer To Test Graph |      |     |       | Pass    |
| CP-OFDM QPSK                       | 1702.5          | Edge_1RB_Left  | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Outer_Full     | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 |                | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Inner_1RB_Left | Refer To Test Graph |      |     |       | Pass    |
| Refer To Test Graph                |                 |                |                     | Pass |     |       |         |

|  |  |  |                     |      |
|--|--|--|---------------------|------|
|  |  |  | Refer To Test Graph | Pass |
|--|--|--|---------------------|------|

## 5.2 Test Graph

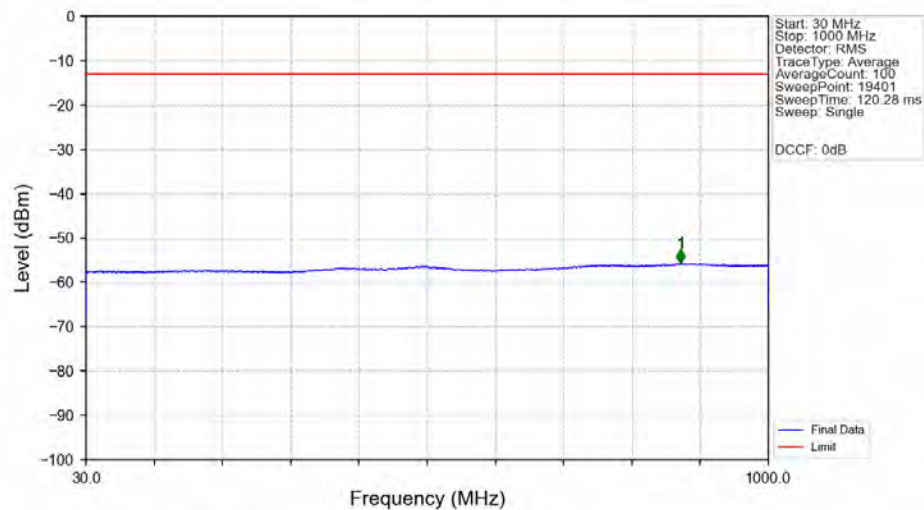
### 5.2.1 15k\_SISO\_5MHz\_NTNV

n70\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM\_PI/2\_BPSK\_1697.5MHz\_Edge\_1RB\_Left\_Ant1



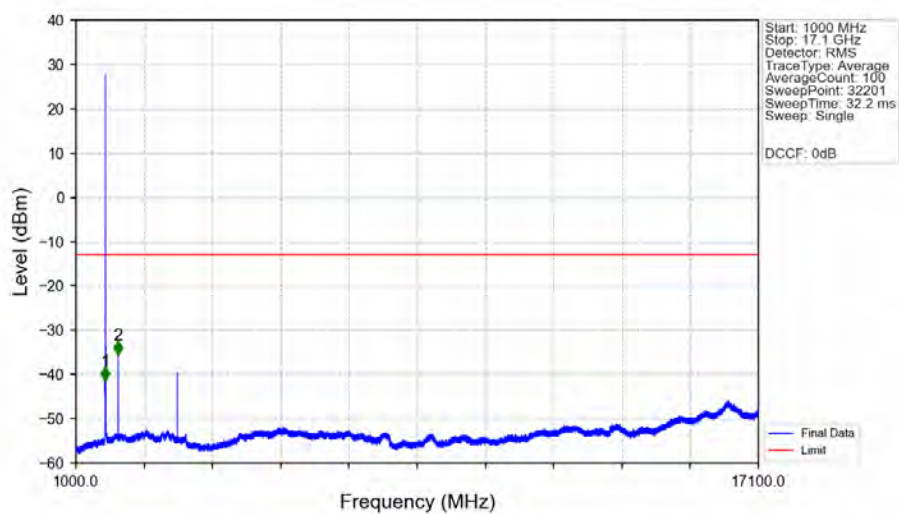
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1690        | 1694       | 1         | CHP    | 1          | 1693.224   | -26.06      | -13         | Pass   |
| 1694        | 1695       | 0.003     | /      | 2          | 1694.991   | -25.12      | -13         | Pass   |
| 1695        | 1700       | 0.003     | /      | /          | /          | /           | /           | /      |

n70\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM\_PI/2\_BPSK\_1697.5MHz\_Edge\_1RB\_Left\_Ant1



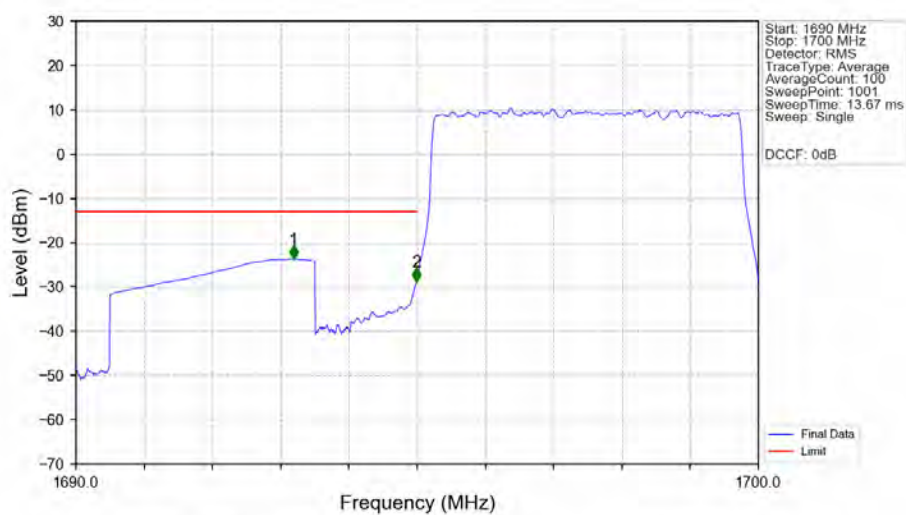
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 30          | 1000       | 1         | CHP    | 1          | 875.200    | -55.67      | -13         | Pass   |

n70 15kHz SISO NTN 5MHz DFT-s-OFDM PI/2 BPSK 1697.5MHz Edge 1RB Left Ant1



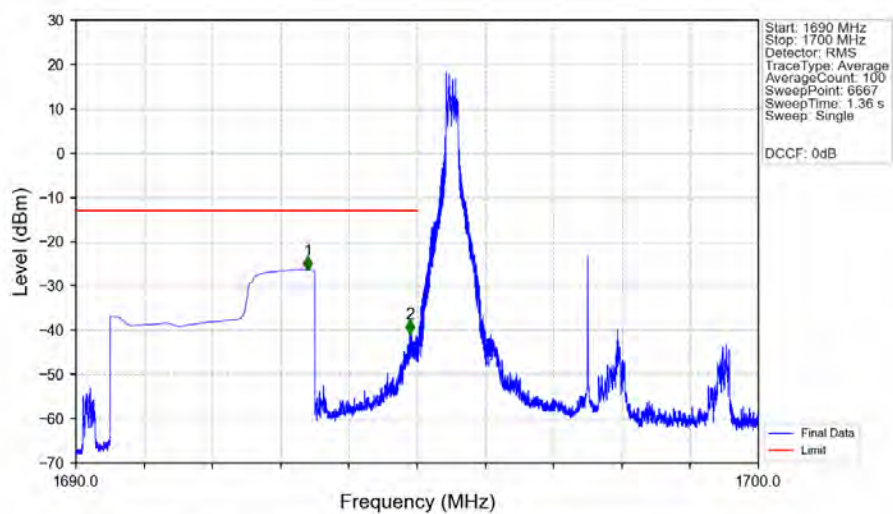
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1000        | 1694       | 1         | /      | 1          | 1687.000   | -41.42      | -13         | Pass   |
| 1694        | 1715       | 1         | /      | /          | /          | /           | /           | /      |
| 1715        | 17100      | 1         | /      | 2          | 1998.500   | -35.49      | -13         | Pass   |

n70 15kHz SISO NTN 5MHz DFT-s-OFDM PI/2 BPSK 1697.5MHz Outer Full Ant1



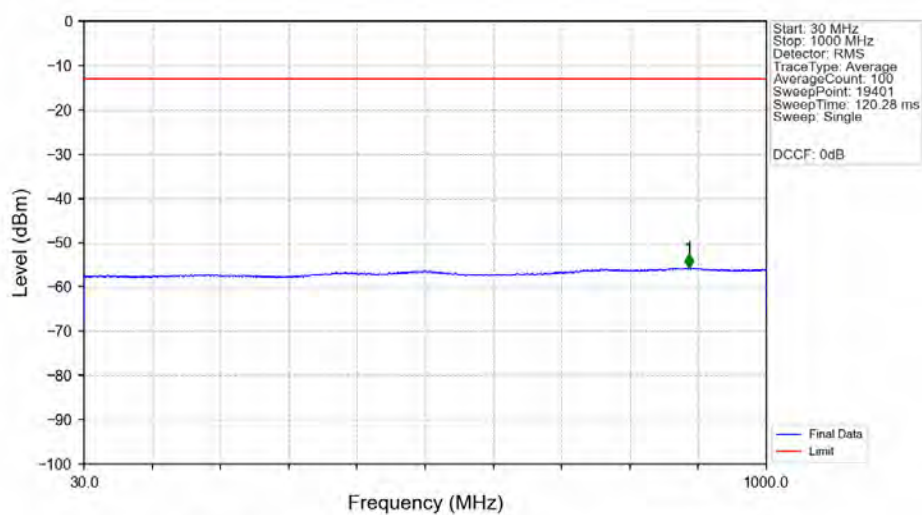
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1690        | 1694       | 1         | CHP    | 1          | 1693.190   | -23.67      | -13         | Pass   |
| 1694        | 1695       | 0.0499    | CHP    | 2          | 1694.990   | -28.75      | -13         | Pass   |
| 1695        | 1700       | 0.0499    | CHP    | /          | /          | /           | /           | /      |

n70 15kHz SISO NTN 5MHz DFT-s-OFDM PI/2 BPSK 1697.5MHz Inner 1RB Left Ant1



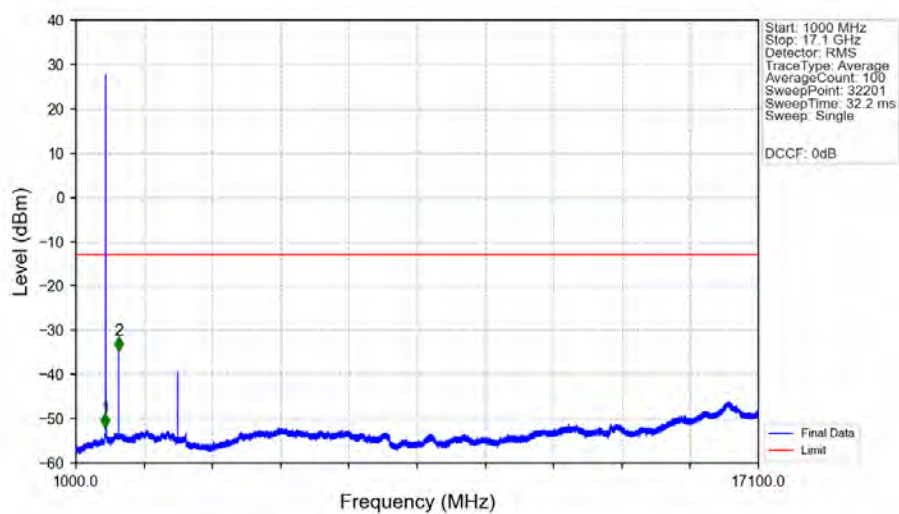
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1690        | 1694       | 1         | CHP    | 1          | 1693.395   | -26.38      | -13         | Pass   |
| 1694        | 1695       | 0.003     | /      | 2          | 1694.892   | -40.86      | -13         | Pass   |
| 1695        | 1700       | 0.003     | /      | /          | /          | /           | /           | /      |

n70 15kHz SISO NTN 5MHz DFT-s-OFDM PI/2 BPSK 1702.5MHz Edge 1RB Left Ant1



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 30          | 1000       | 1         | CHP    | 1          | 889.650    | -55.70      | -13         | Pass   |

n70 15kHz SISO NTNV 5MHz DFT-s-OFDM PI/2 BPSK 1702.5MHz Edge 1RB Left Ant1



n70 15kHz SISO NTNV 5MHz DFT-s-OFDM PI/2 BPSK 1707.5MHz Edge 1RB Right Ant1

