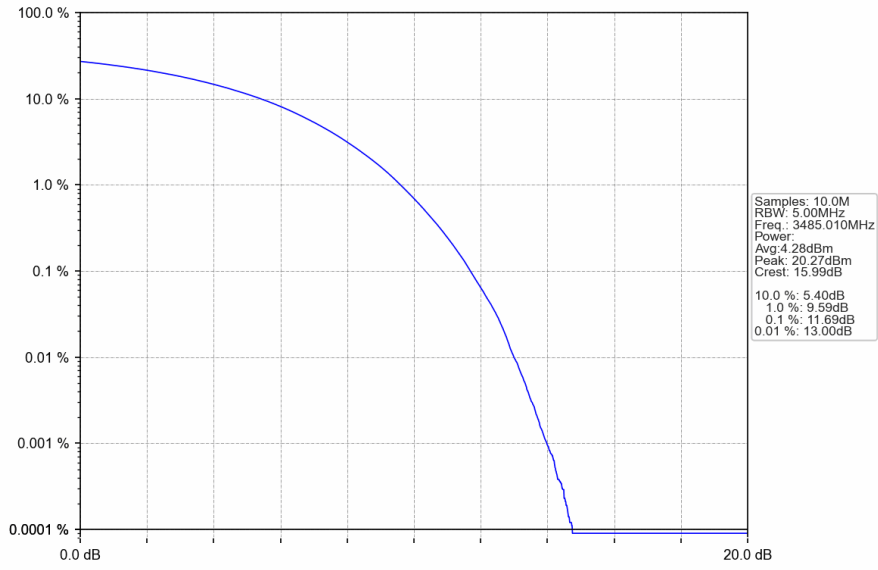
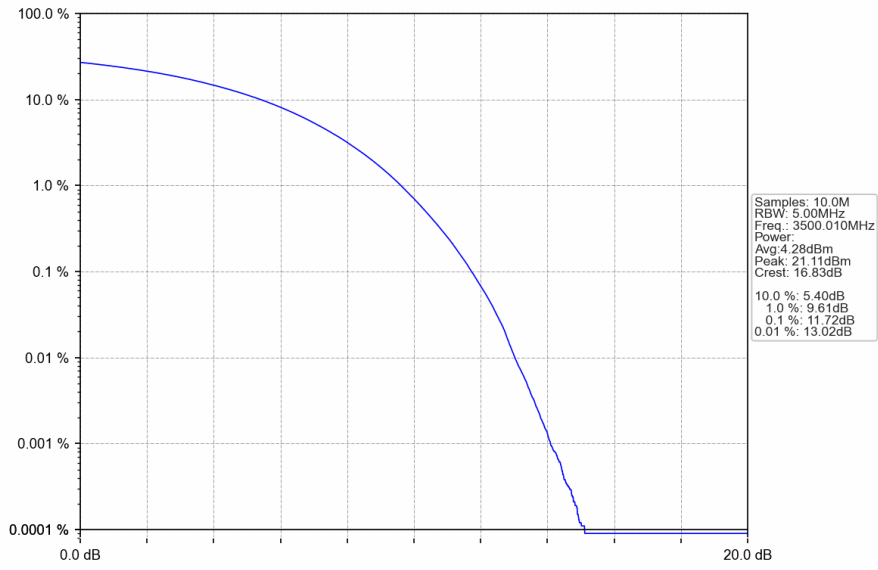


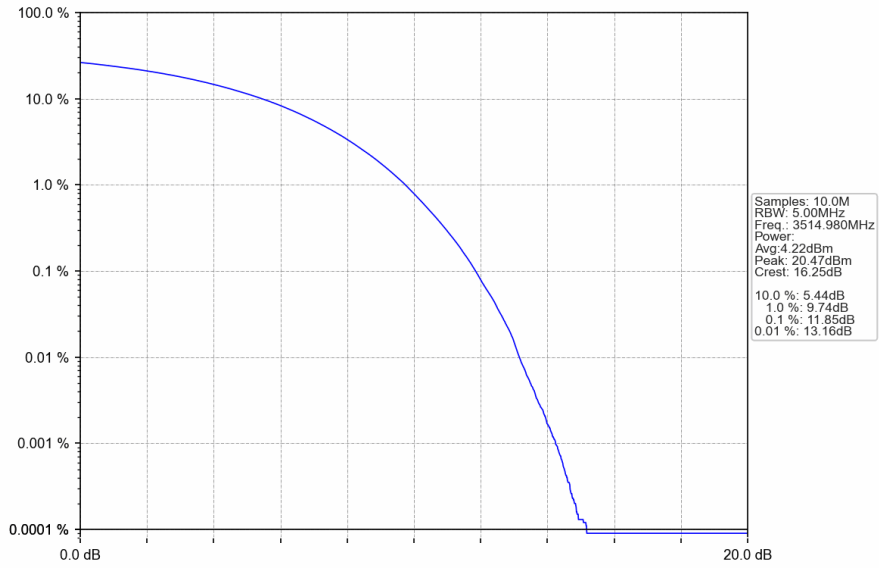
n78e_30kHz_SISO_NTNV_70MHz_CP-OFDM 64 QAM_3485.01MHz_Outer_Full



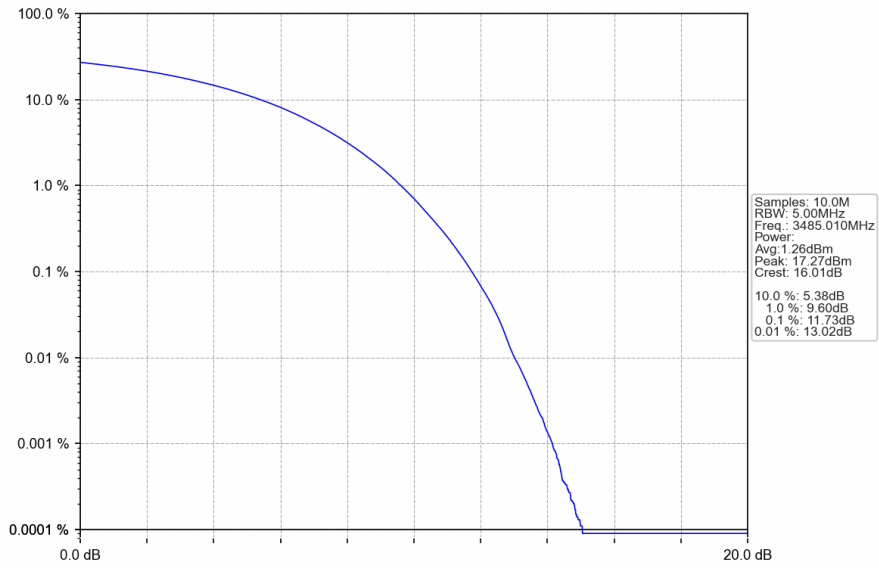
n78e_30kHz_SISO_NTNV_70MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



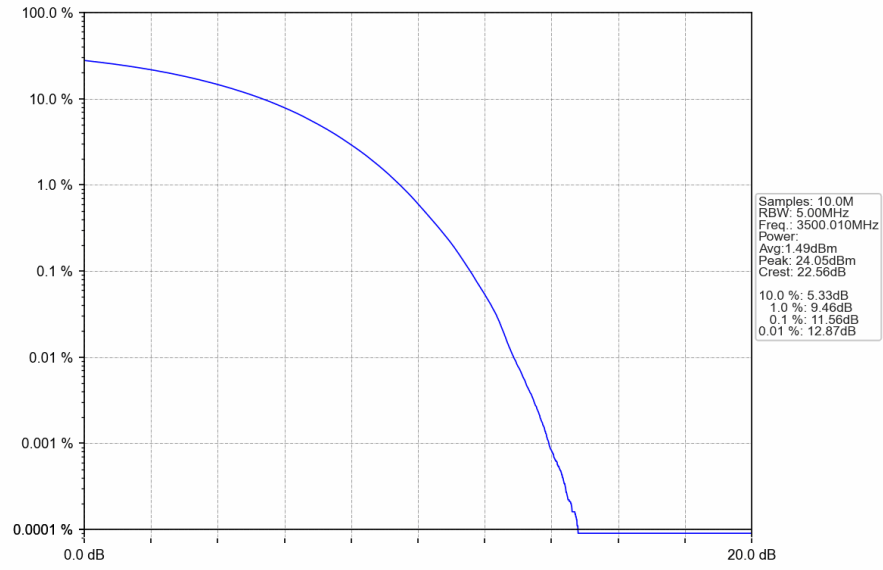
n78e_30kHz_SISO_NTNV_70MHz_CP-OFDM 64 QAM_3514.98MHz_Outer_Full



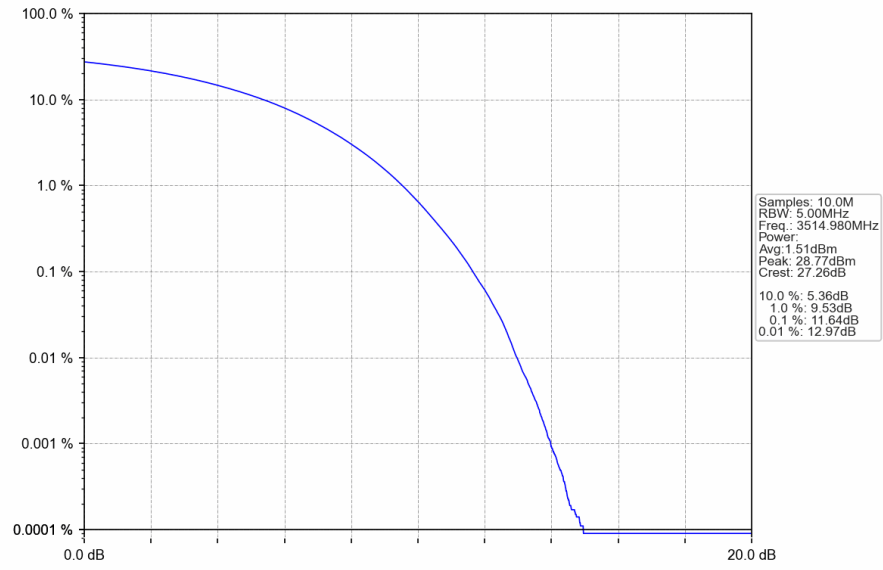
n78e_30kHz_SISO_NTNV_70MHz_CP-OFDM 256 QAM_3485.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_70MHz_CP-OFDM 256 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_70MHz_CP-OFDM 256 QAM_3514.98MHz_Outer_Full



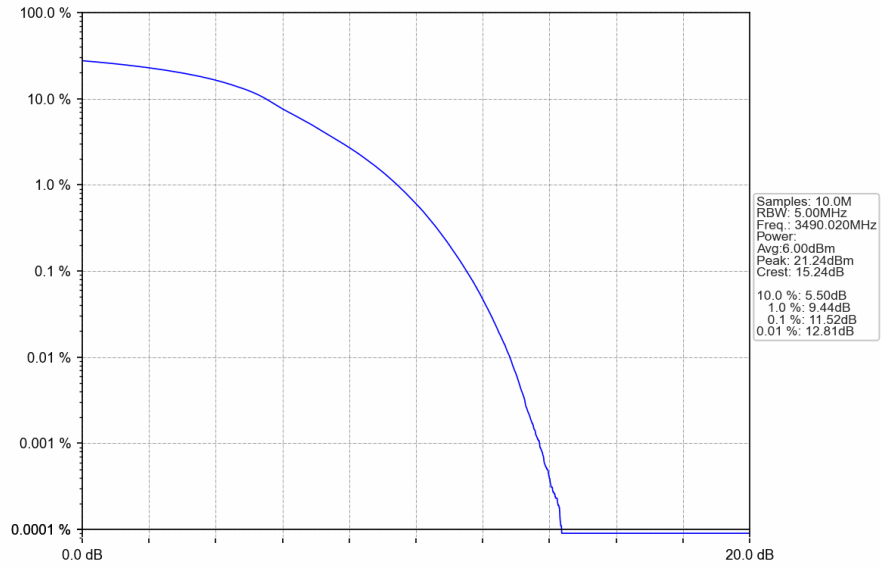
1.7 30k_SISO_80MHz_NTNV

1.7.1 Test Result

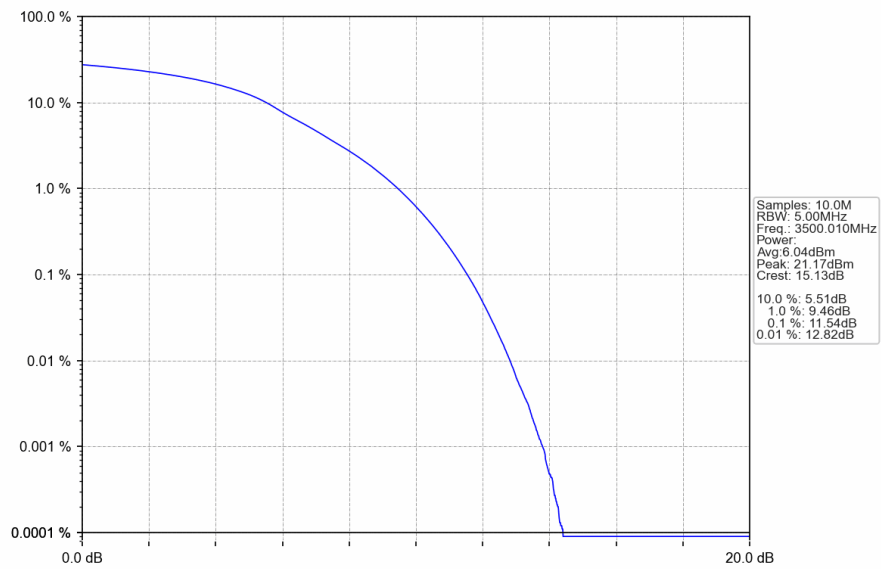
| 5G NR n78e SCS=30kHz SISO 80MHz NTN | | | | | | | |
|-------------------------------------|-----------------|---------------|--------------------------|------|-----|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dBm) | | | | Verdict |
| | | | Ant1 | Ant2 | Sum | Limit | |
| DFT-s-OFDM QPSK | 3490.02 | Outer_Full | 11.52 | / | / | <=13 | Pass |
| | 3500.01 | Outer_Full | 11.54 | / | / | <=13 | Pass |
| | 3510 | Outer_Full | 11.24 | / | / | <=13 | Pass |
| DFT-s-OFDM 64 QAM | 3490.02 | Outer_Full | 11.63 | / | / | <=13 | Pass |
| | 3500.01 | Outer_Full | 11.67 | / | / | <=13 | Pass |
| | 3510 | Outer_Full | 11.33 | / | / | <=13 | Pass |
| DFT-s-OFDM 256 QAM | 3490.02 | Outer_Full | 11.40 | / | / | <=13 | Pass |
| | 3500.01 | Outer_Full | 11.53 | / | / | <=13 | Pass |
| | 3510 | Outer_Full | 11.36 | / | / | <=13 | Pass |
| CP-OFDM QPSK | 3490.02 | Outer_Full | 11.40 | / | / | <=13 | Pass |
| | 3500.01 | Outer_Full | 11.62 | / | / | <=13 | Pass |
| | 3510 | Outer_Full | 11.48 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM | 3490.02 | Outer_Full | 11.58 | / | / | <=13 | Pass |
| | 3500.01 | Outer_Full | 11.73 | / | / | <=13 | Pass |
| | 3510 | Outer_Full | 11.81 | / | / | <=13 | Pass |
| CP-OFDM 256 QAM | 3490.02 | Outer_Full | 11.88 | / | / | <=13 | Pass |
| | 3500.01 | Outer_Full | 11.64 | / | / | <=13 | Pass |
| | 3510 | Outer_Full | 11.82 | / | / | <=13 | Pass |

1.7.2 Test Graph

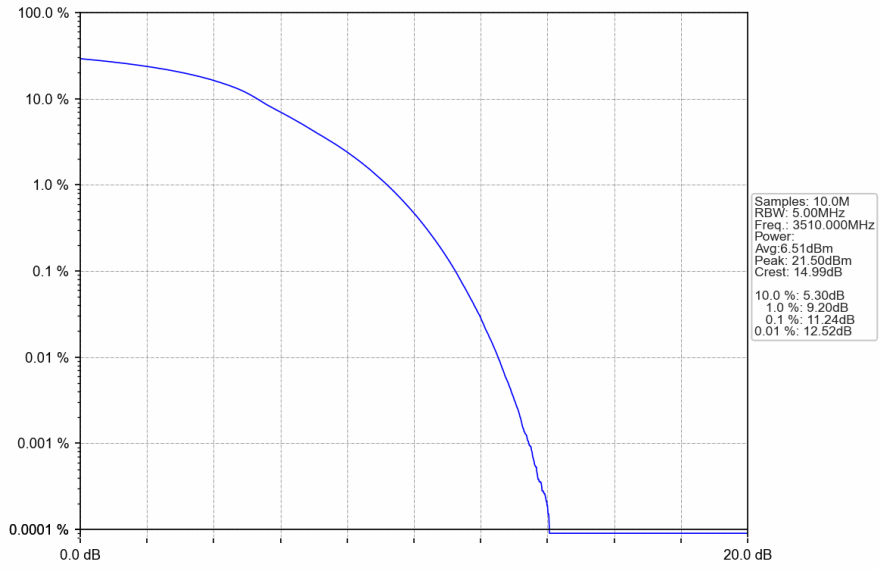
n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_3490.02MHz_Outer_Full



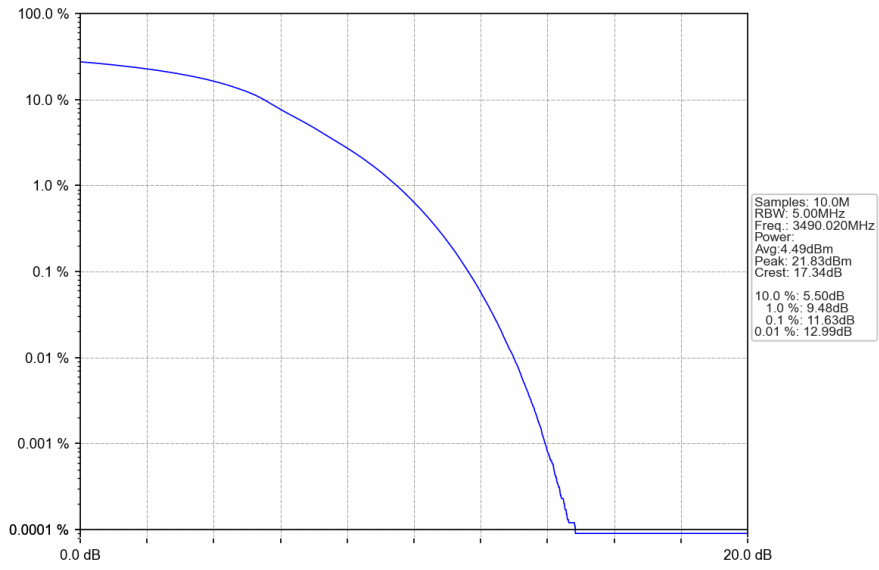
n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_3500.01MHz_Outer_Full



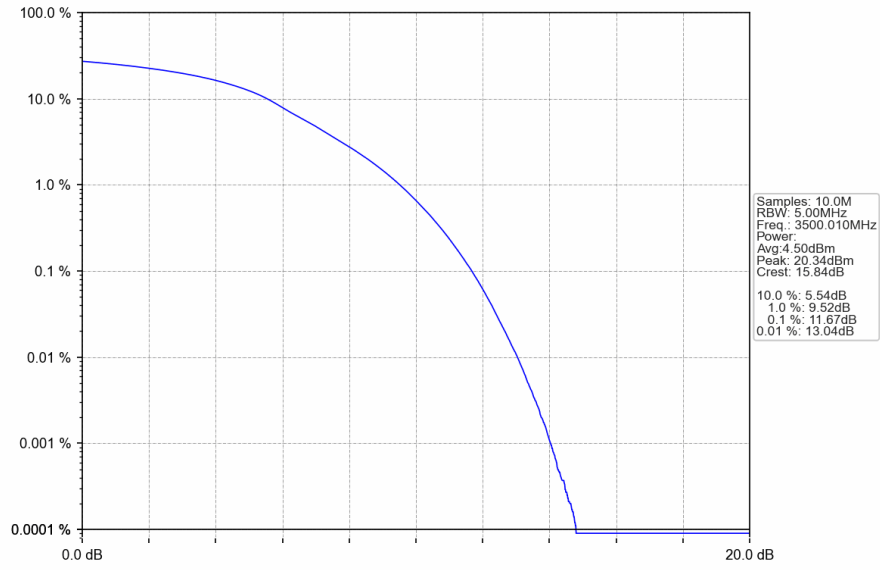
n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_3510MHz_Outer_Full



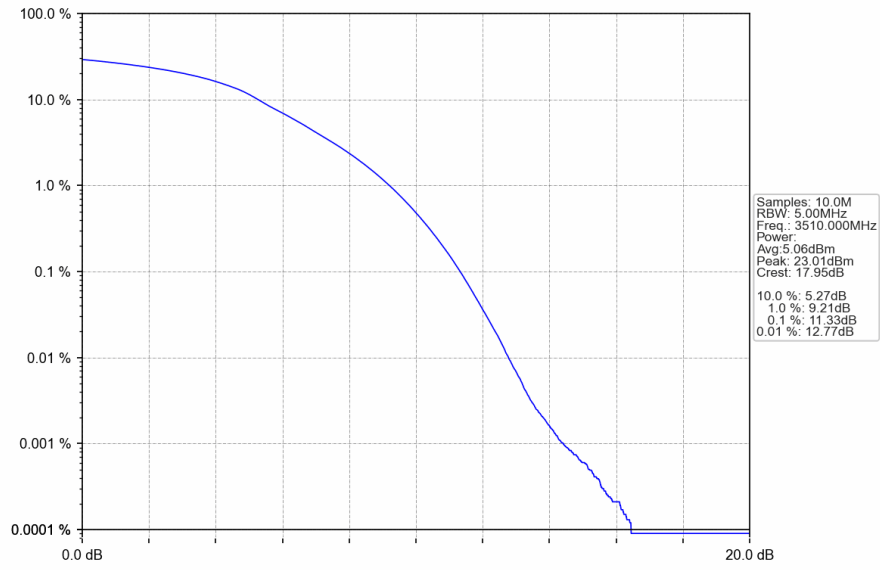
n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 64 QAM_3490.02MHz_Outer_Full



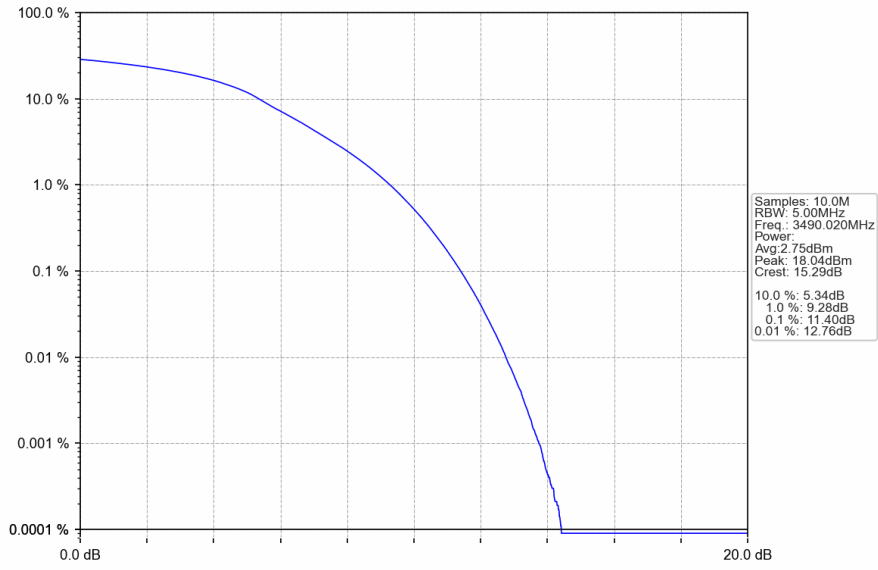
n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_64_QAM_3500.01MHz_Outer_Full



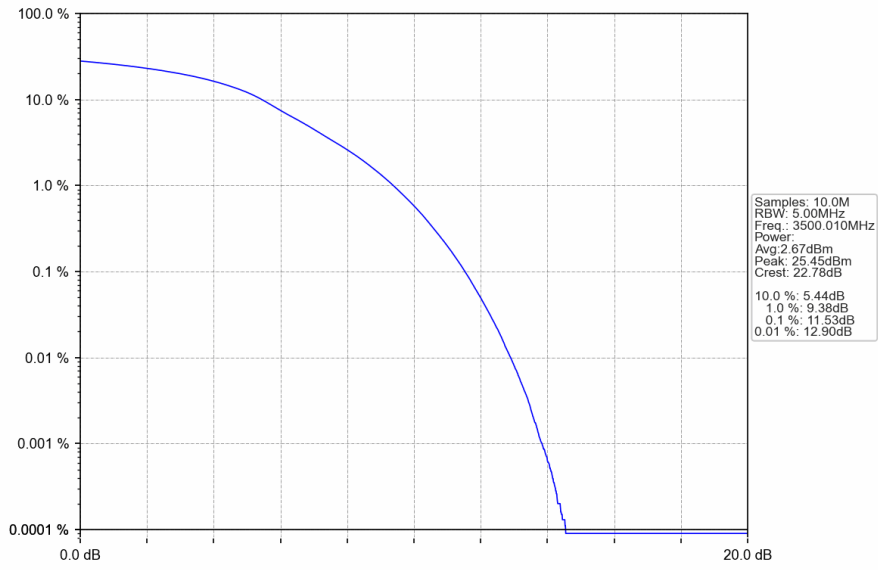
n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_64_QAM_3510MHz_Outer_Full



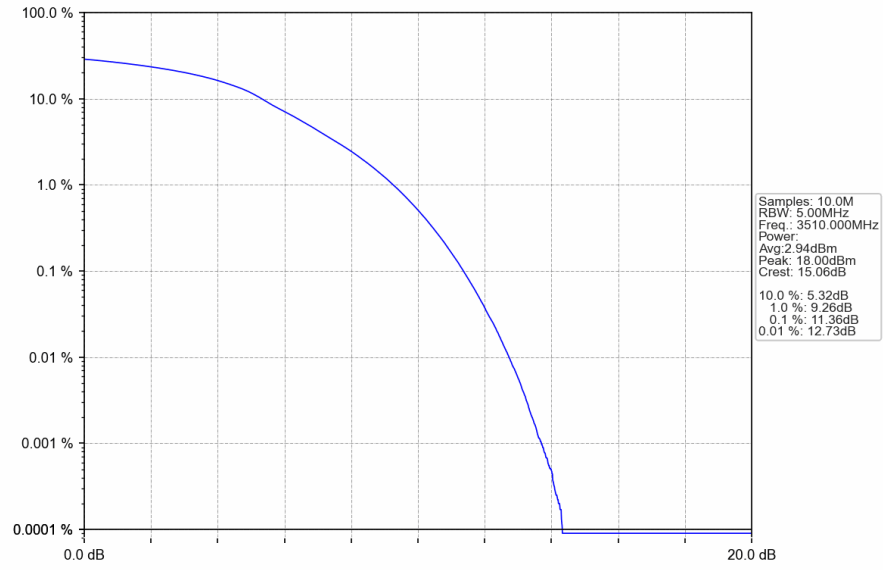
n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_256_QAM_3490.02MHz_Outer_Full



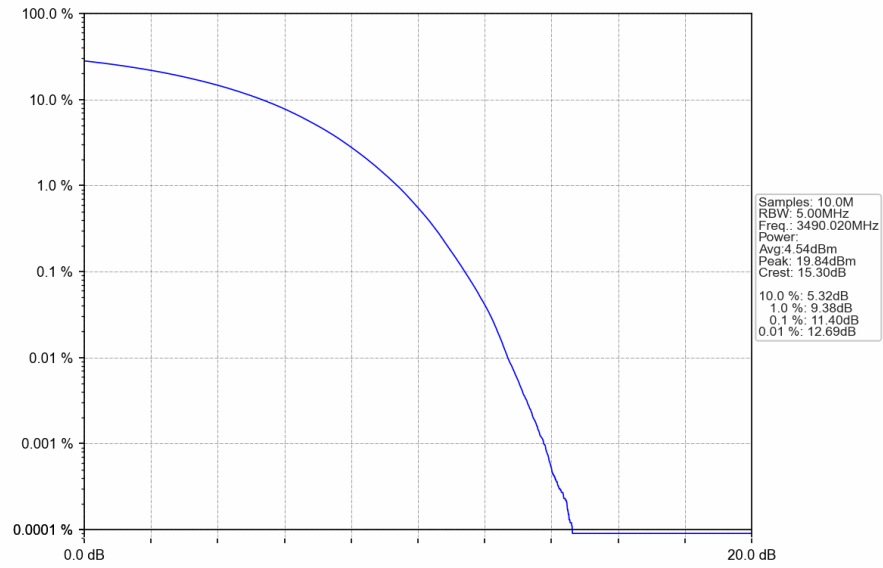
n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



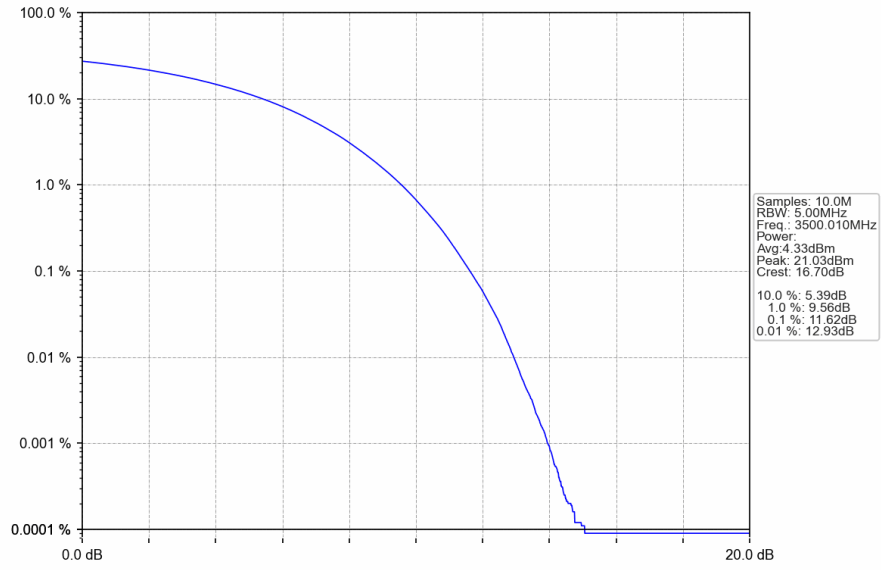
n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_256_QAM_3510MHz_Outer_Full



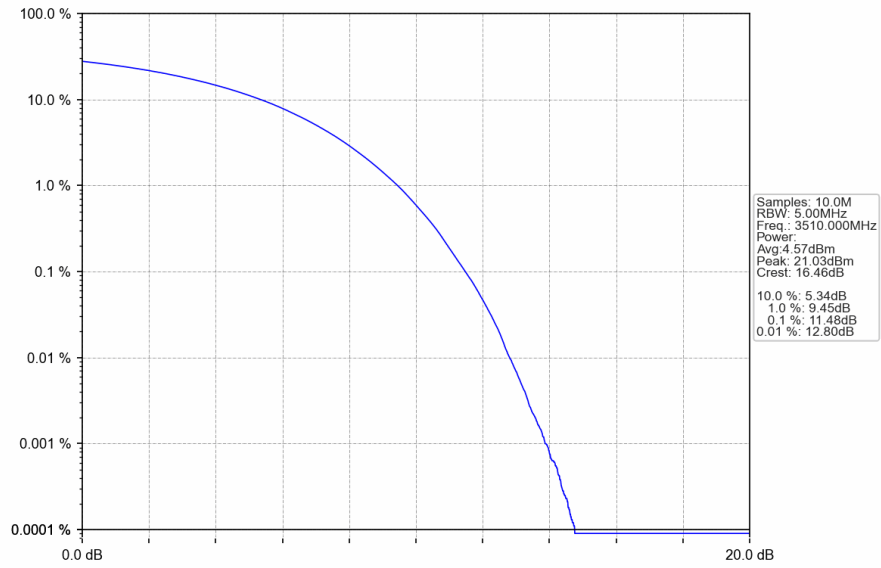
n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM_QPSK_3490.02MHz_Outer_Full



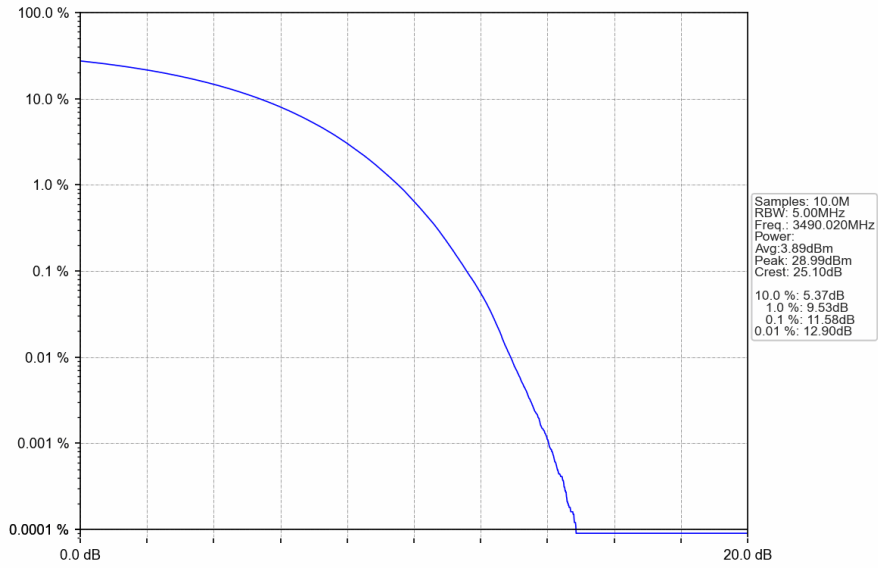
n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM QPSK_3500.01MHz_Outer_Full



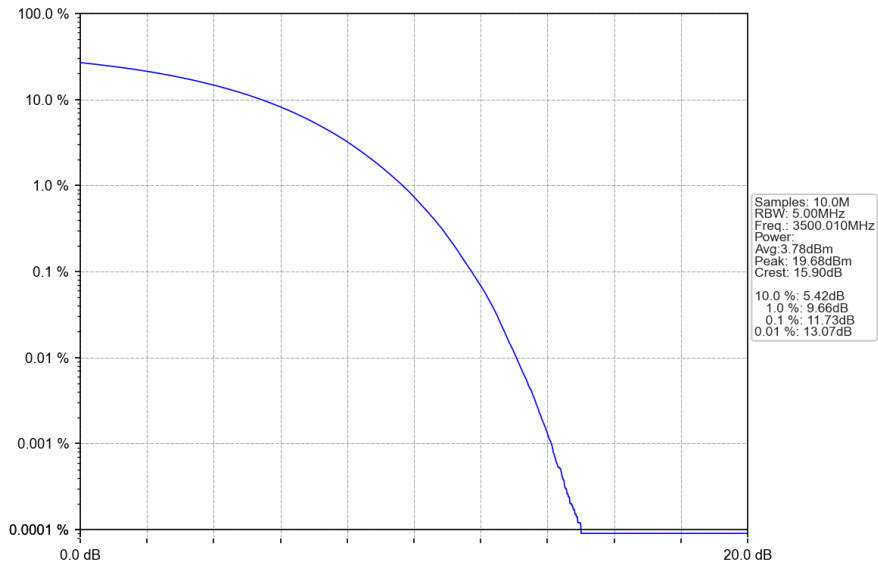
n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM QPSK_3510MHz_Outer_Full



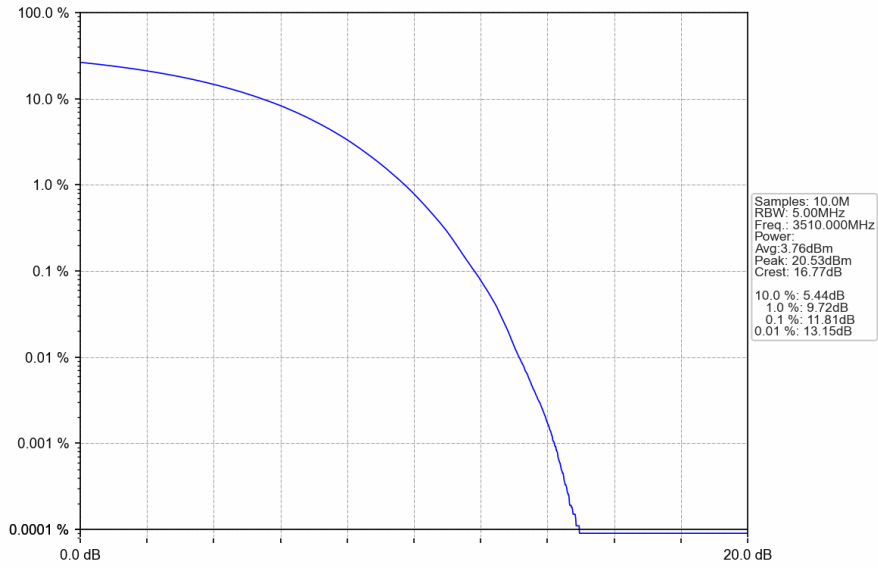
n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM_3490.02MHz_Outer_Full



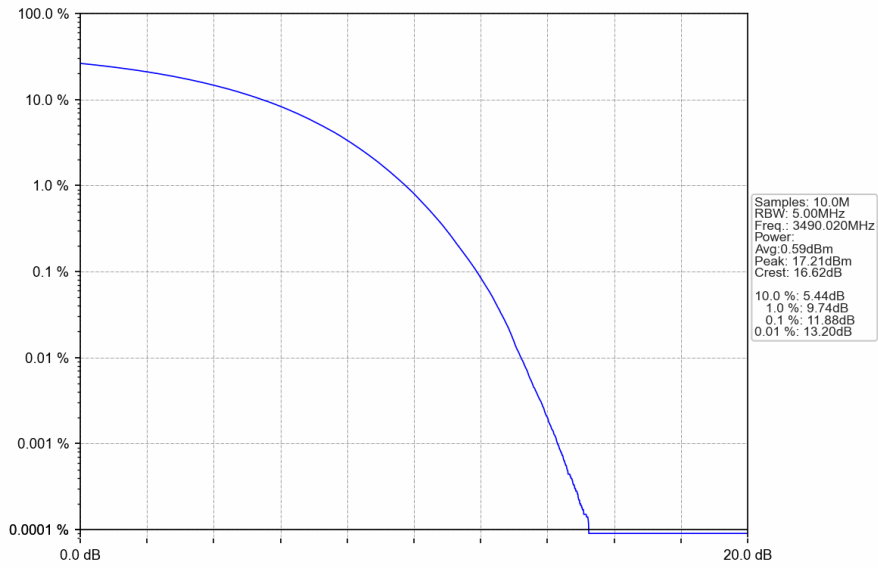
n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



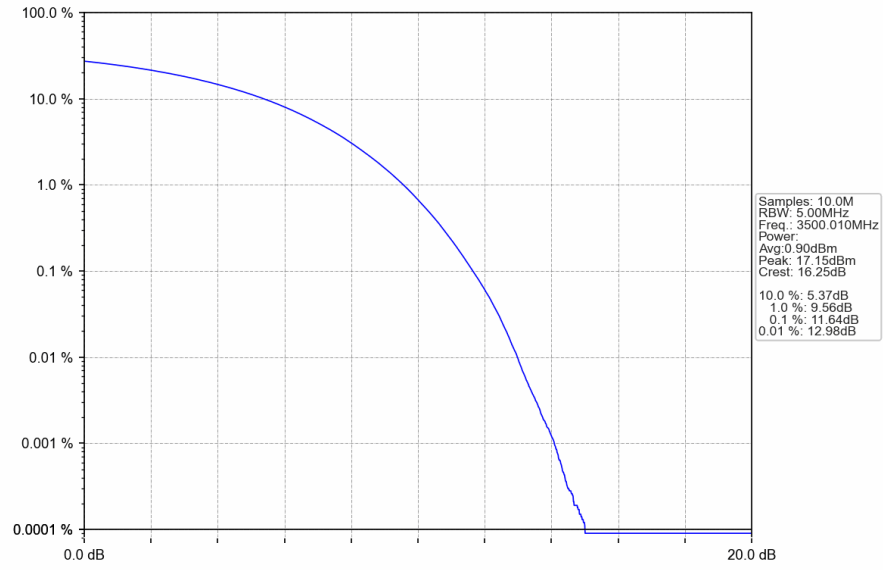
n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM_3510MHz_Outer_Full



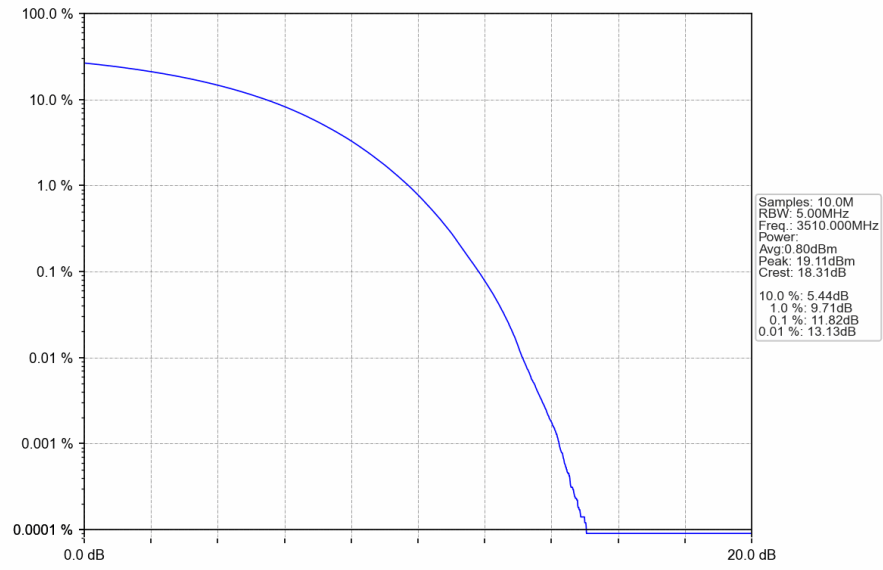
n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3490.02MHz_Outer_Full



n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM_256_QAM_3510MHz_Outer_Full

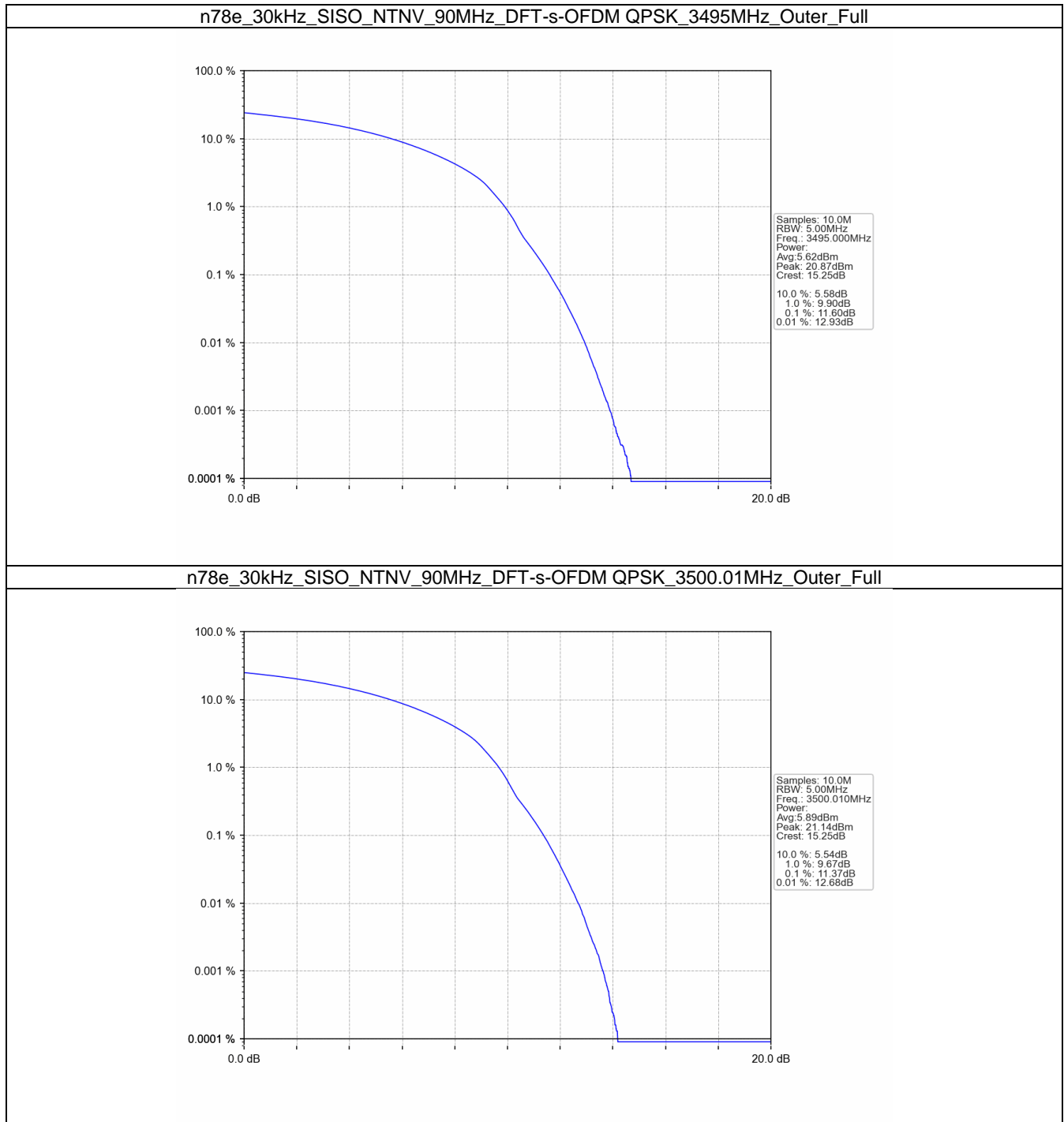


1.8 30k_SISO_90MHz_NTNV

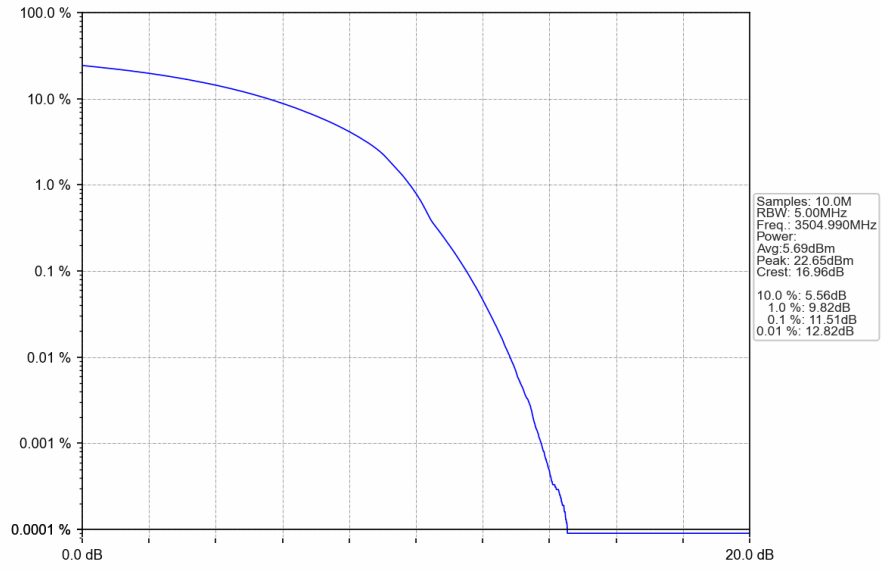
1.8.1 Test Result

| 5G NR n78e SCS=30kHz SISO 90MHz NTN | | | | | | | |
|-------------------------------------|-----------------|---------------|--------------------------|------|-----|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dBm) | | | | Verdict |
| | | | Ant1 | Ant2 | Sum | Limit | |
| DFT-s-OFDM QPSK | 3495 | Outer_Full | 11.60 | / | / | <=13 | Pass |
| | 3500.01 | Outer_Full | 11.37 | / | / | <=13 | Pass |
| | 3504.99 | Outer_Full | 11.51 | / | / | <=13 | Pass |
| DFT-s-OFDM 64 QAM | 3495 | Outer_Full | 11.44 | / | / | <=13 | Pass |
| | 3500.01 | Outer_Full | 11.48 | / | / | <=13 | Pass |
| | 3504.99 | Outer_Full | 11.43 | / | / | <=13 | Pass |
| DFT-s-OFDM 256 QAM | 3495 | Outer_Full | 11.50 | / | / | <=13 | Pass |
| | 3500.01 | Outer_Full | 11.53 | / | / | <=13 | Pass |
| | 3504.99 | Outer_Full | 11.53 | / | / | <=13 | Pass |
| CP-OFDM QPSK | 3495 | Outer_Full | 11.53 | / | / | <=13 | Pass |
| | 3500.01 | Outer_Full | 11.53 | / | / | <=13 | Pass |
| | 3504.99 | Outer_Full | 11.72 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM | 3495 | Outer_Full | 11.58 | / | / | <=13 | Pass |
| | 3500.01 | Outer_Full | 11.67 | / | / | <=13 | Pass |
| | 3504.99 | Outer_Full | 11.61 | / | / | <=13 | Pass |
| CP-OFDM 256 QAM | 3495 | Outer_Full | 11.83 | / | / | <=13 | Pass |
| | 3500.01 | Outer_Full | 11.67 | / | / | <=13 | Pass |
| | 3504.99 | Outer_Full | 11.72 | / | / | <=13 | Pass |

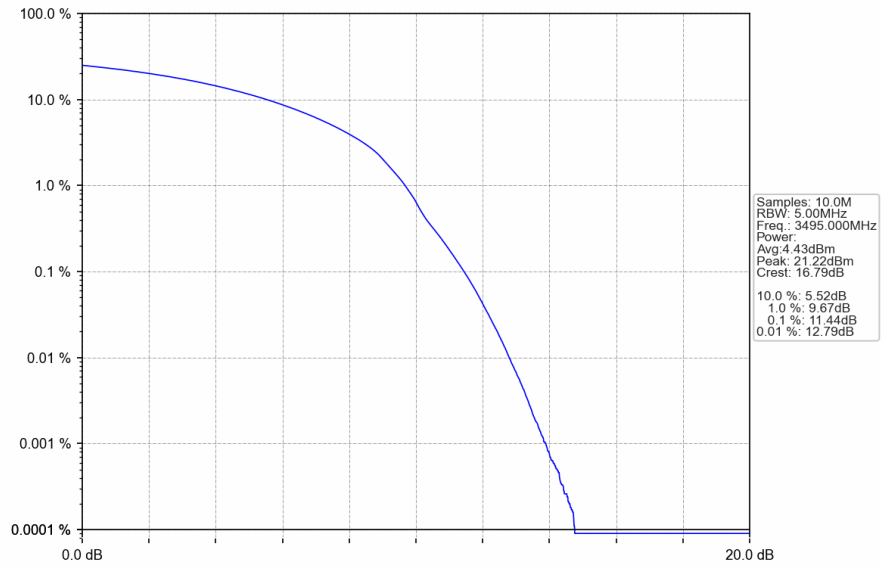
1.8.2 Test Graph



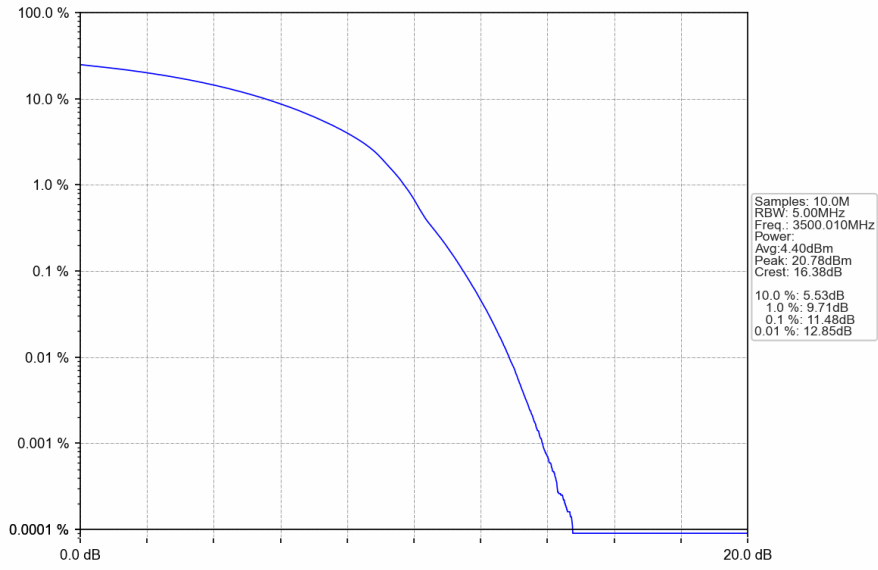
n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM QPSK_3504.99MHz_Outer_Full



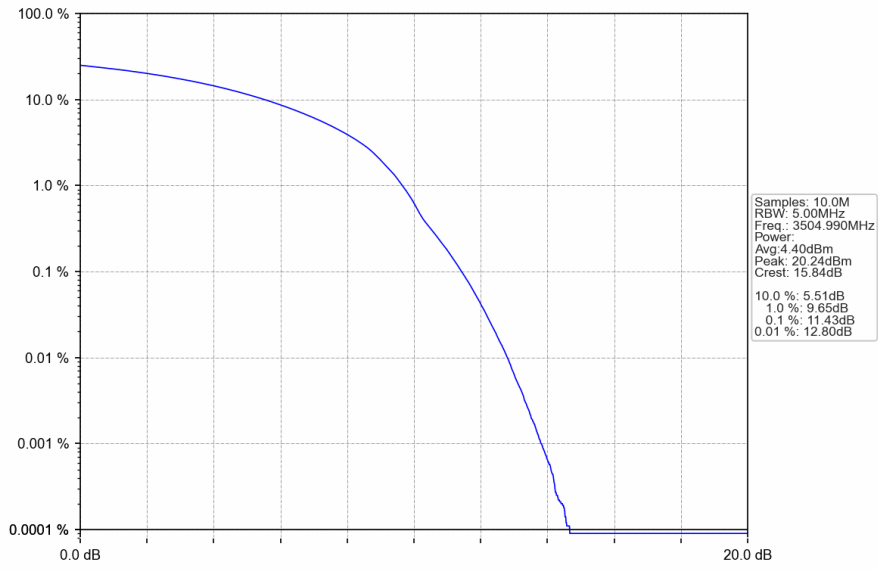
n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 64 QAM_3495MHz_Outer_Full



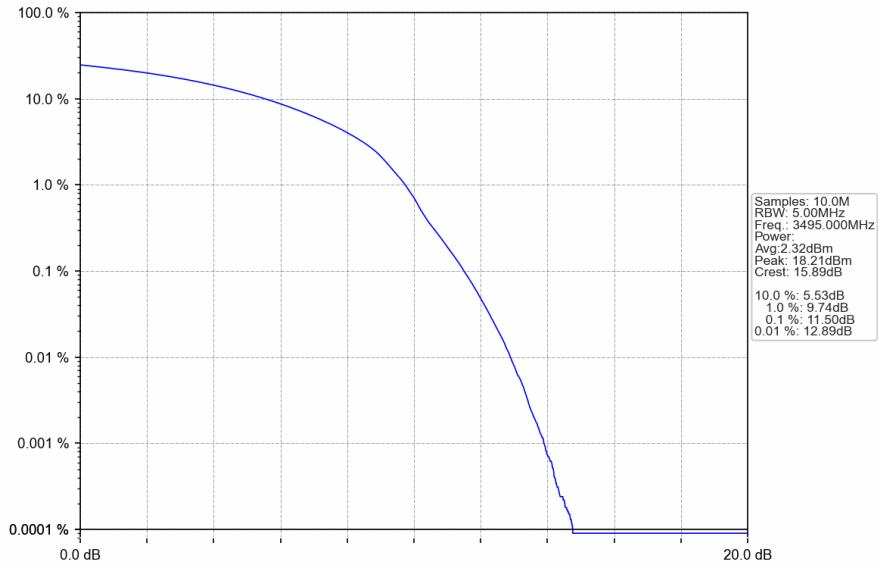
n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_64_QAM_3500.01MHz_Outer_Full



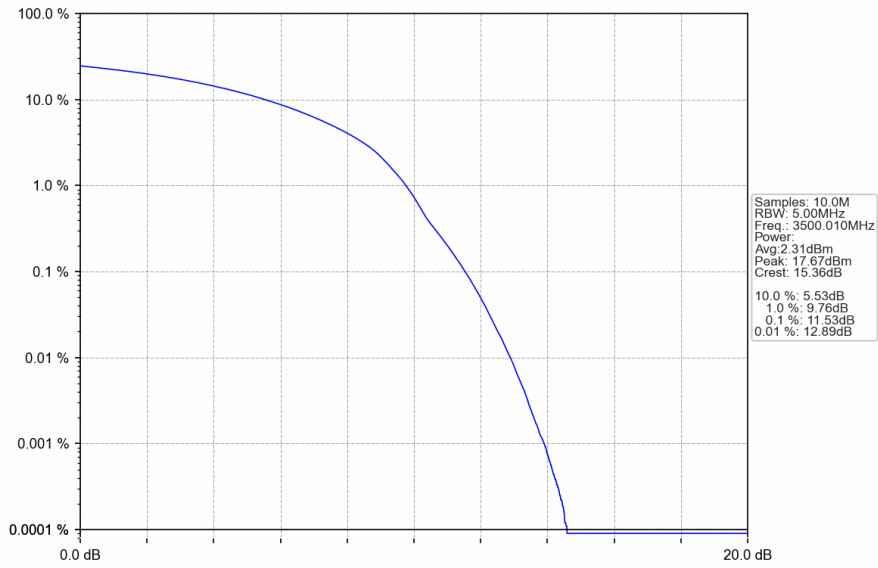
n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_64_QAM_3504.99MHz_Outer_Full



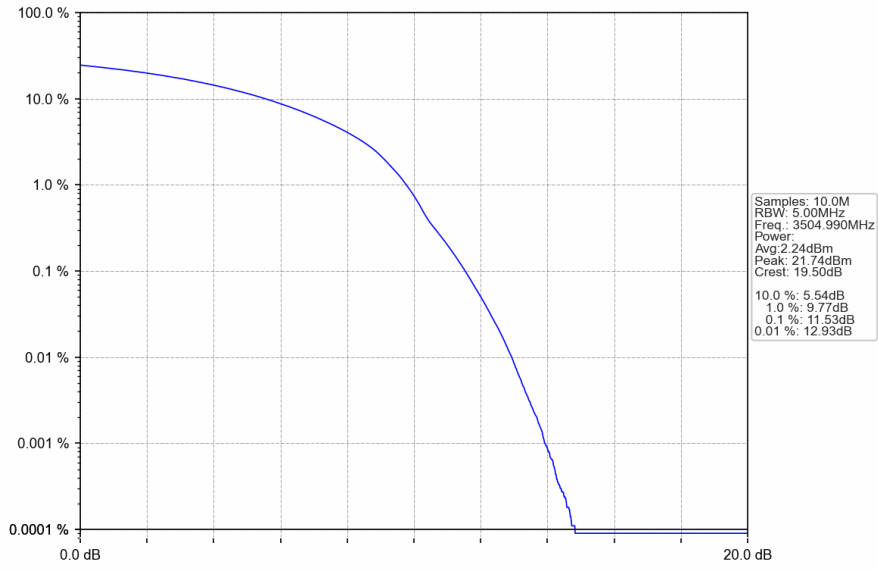
n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 256 QAM_3495MHz_Outer_Full



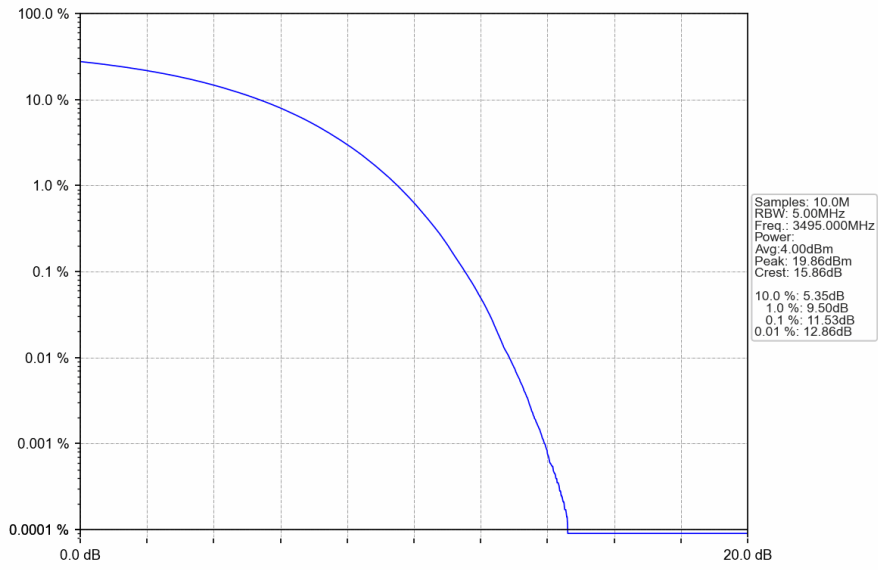
n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 256 QAM_3500.01MHz_Outer_Full



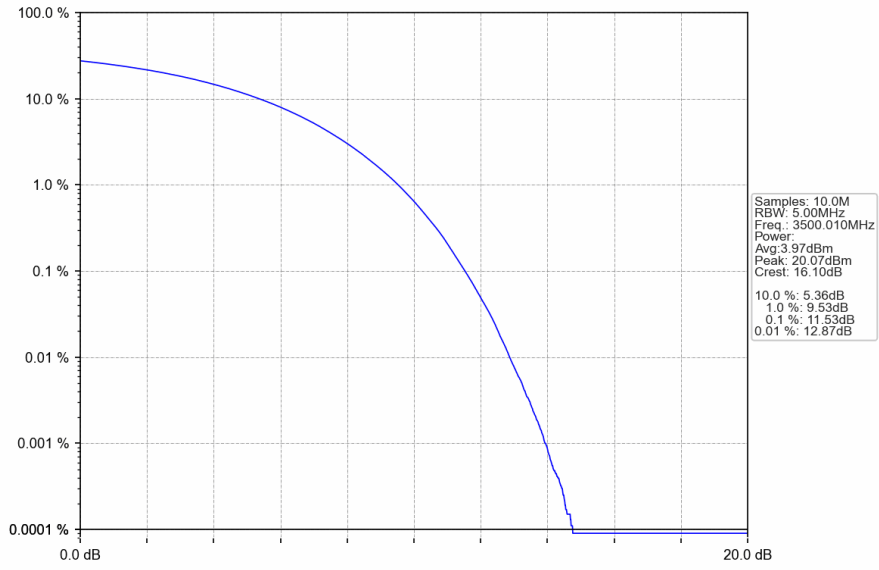
n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256_QAM_3504.99MHz_Outer_Full



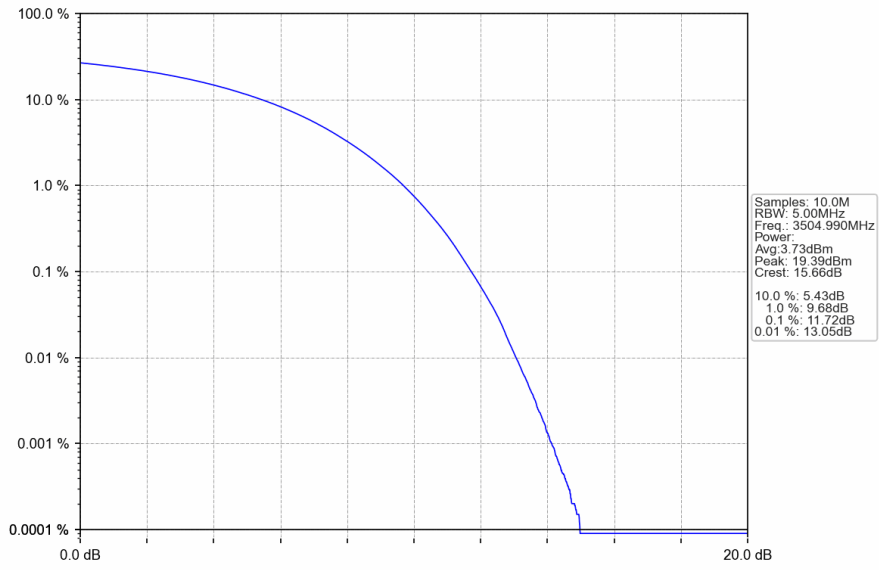
n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM_QPSK_3495MHz_Outer_Full



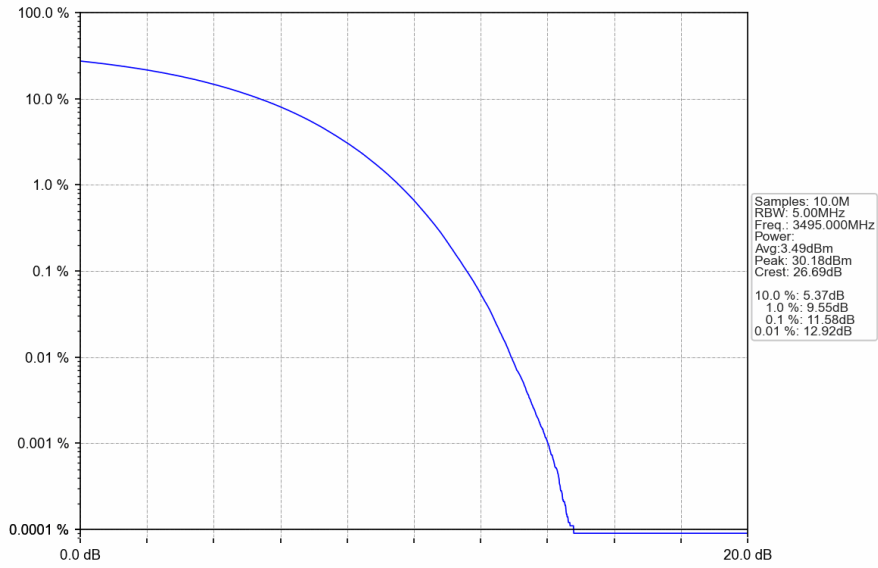
n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM_QPSK_3500.01MHz_Outer_Full



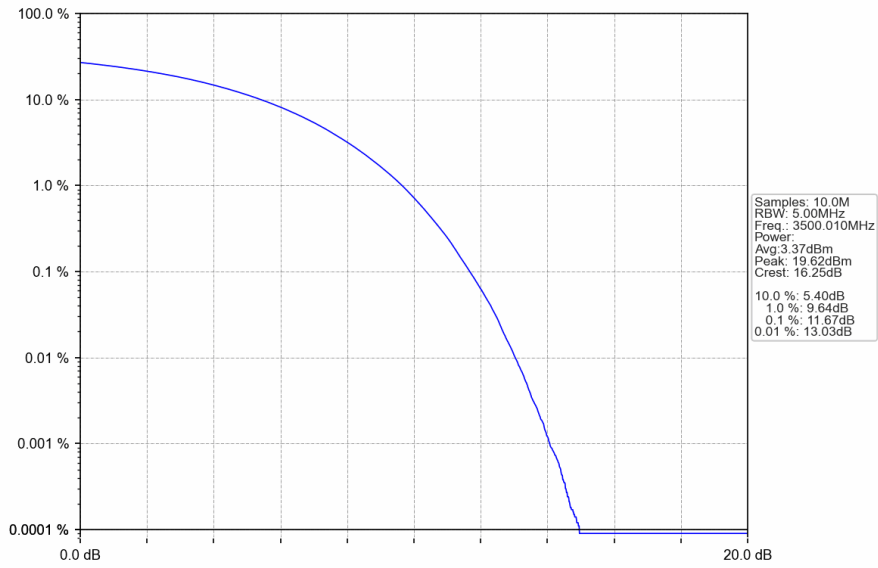
n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM_QPSK_3504.99MHz_Outer_Full



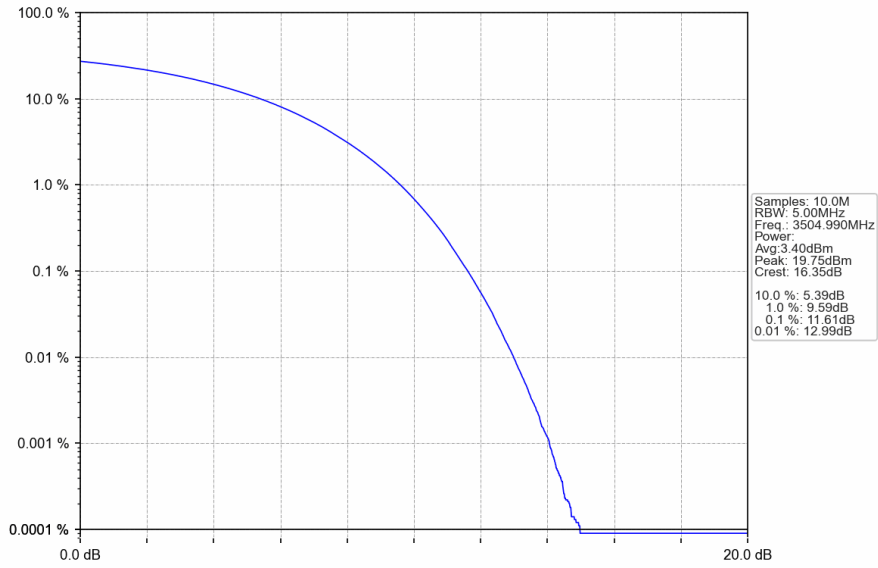
n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_3495MHz_Outer_Full



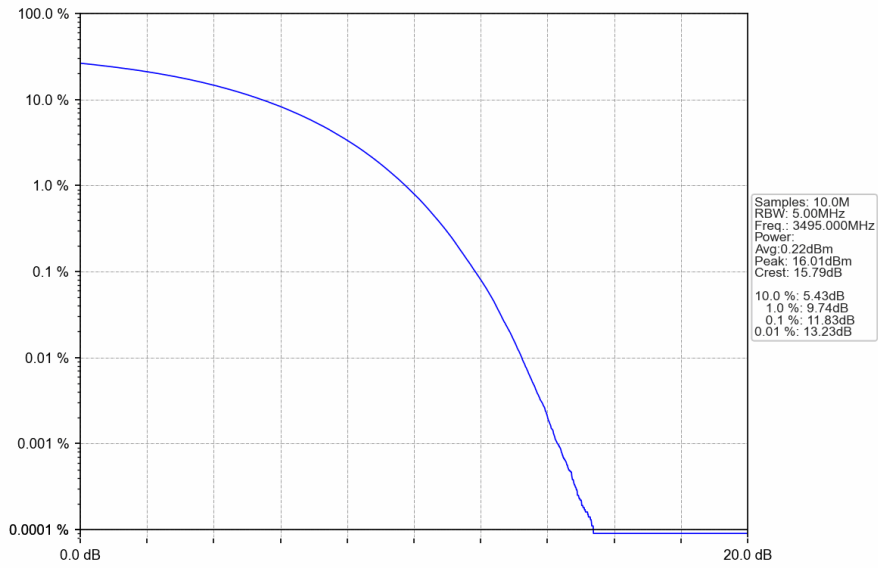
n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



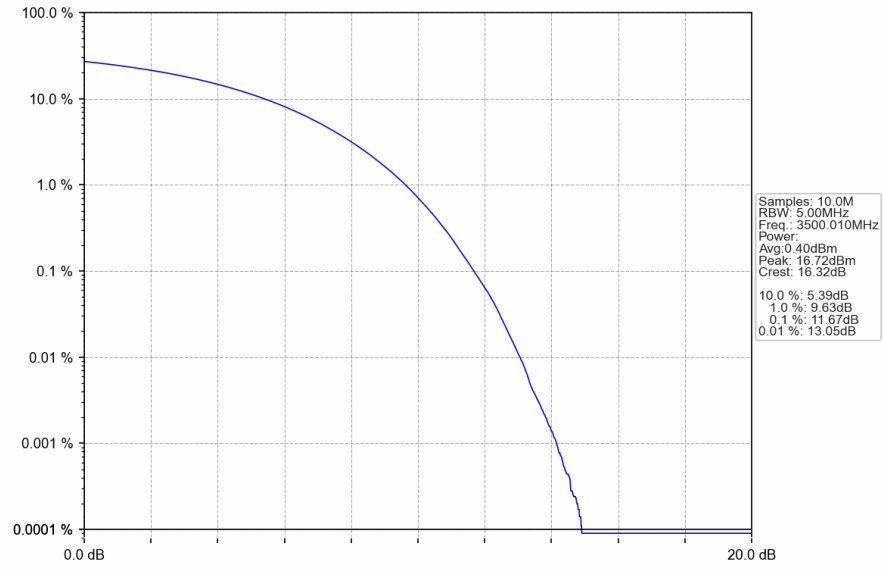
n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_3504.99MHz_Outer_Full



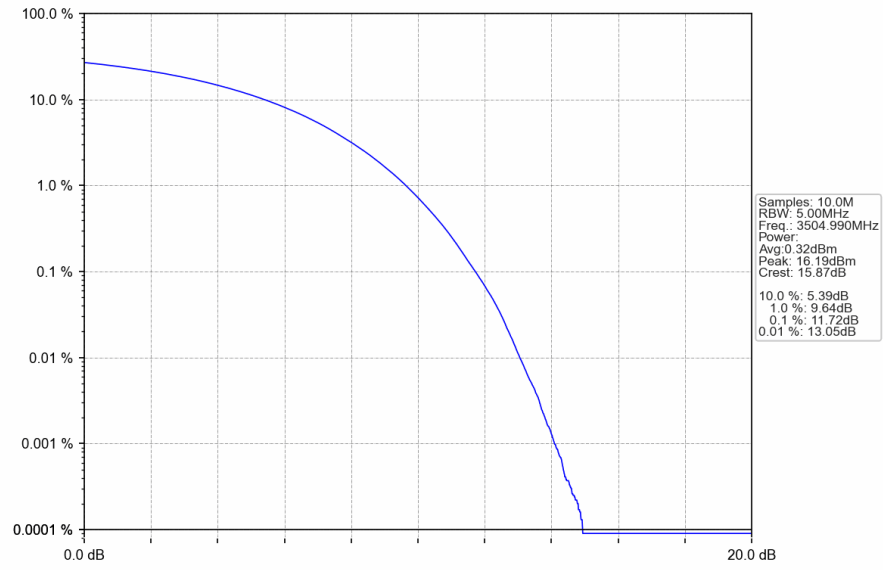
n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM 256 QAM_3495MHz_Outer_Full



n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM_256_QAM_3504.99MHz_Outer_Full



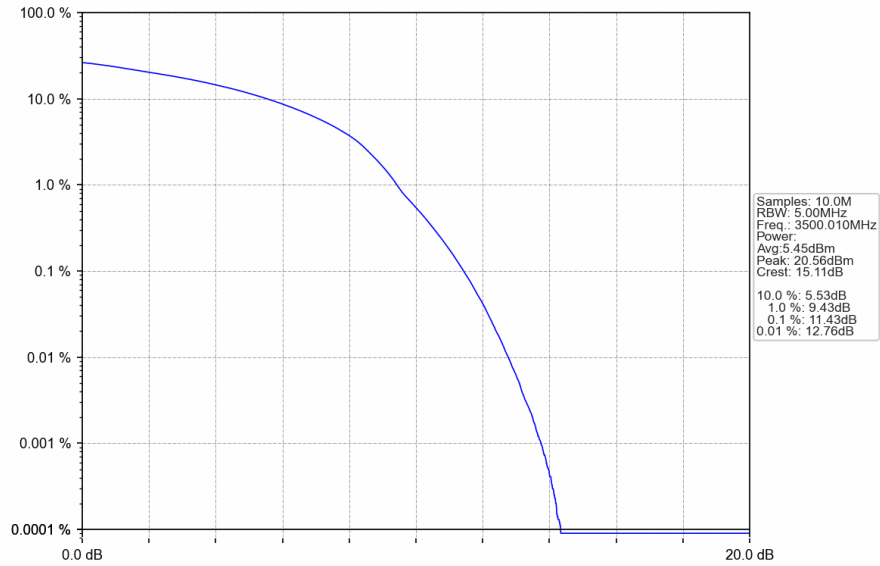
1.9 30k_SISO_100MHz_NTNV

1.9.1 Test Result

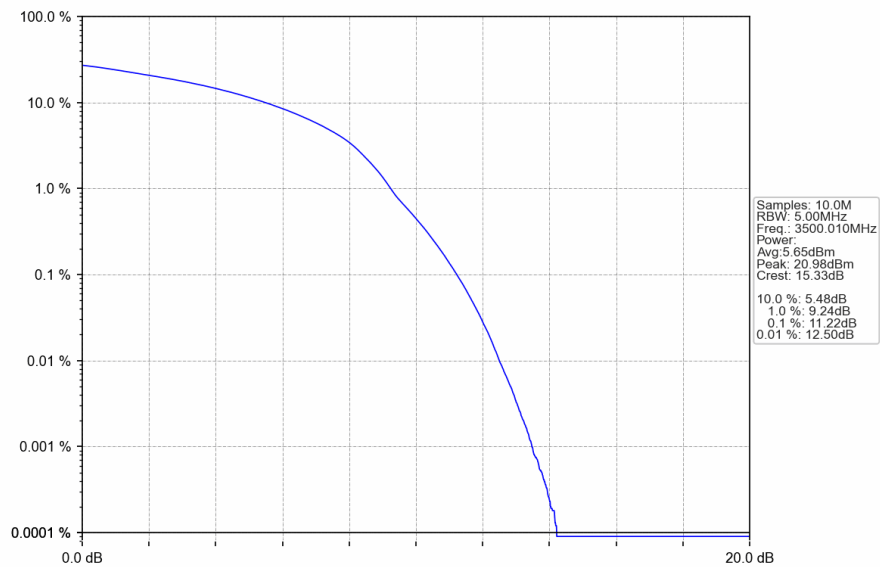
| 5G NR n78e SCS=30kHz SISO 100MHz NTNV | | | | | | | |
|---------------------------------------|-----------------|---------------|--------------------------|------|-----|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dBm) | | | Limit | Verdict |
| | | | Ant1 | Ant2 | Sum | | |
| DFT-s-OFDM QPSK | 3500.01 | Outer_Full | 11.43 | / | / | <=13 | Pass |
| | 3500.01 | Outer_Full | 11.22 | / | / | <=13 | Pass |
| | 3499.98 | Outer_Full | 11.48 | / | / | <=13 | Pass |
| DFT-s-OFDM 64 QAM | 3500.01 | Outer_Full | 11.65 | / | / | <=13 | Pass |
| | 3500.01 | Outer_Full | 11.59 | / | / | <=13 | Pass |
| | 3499.98 | Outer_Full | 11.48 | / | / | <=13 | Pass |
| DFT-s-OFDM 256 QAM | 3500.01 | Outer_Full | 11.16 | / | / | <=13 | Pass |
| | 3500.01 | Outer_Full | 11.26 | / | / | <=13 | Pass |
| | 3499.98 | Outer_Full | 11.53 | / | / | <=13 | Pass |
| CP-OFDM QPSK | 3500.01 | Outer_Full | 11.86 | / | / | <=13 | Pass |
| | 3500.01 | Outer_Full | 11.86 | / | / | <=13 | Pass |
| | 3499.98 | Outer_Full | 11.65 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM | 3500.01 | Outer_Full | 11.80 | / | / | <=13 | Pass |
| | 3500.01 | Outer_Full | 12.12 | / | / | <=13 | Pass |
| | 3499.98 | Outer_Full | 11.82 | / | / | <=13 | Pass |
| CP-OFDM 256 QAM | 3500.01 | Outer_Full | 11.59 | / | / | <=13 | Pass |
| | 3500.01 | Outer_Full | 11.70 | / | / | <=13 | Pass |
| | 3499.98 | Outer_Full | 11.66 | / | / | <=13 | Pass |

1.9.2 Test Graph

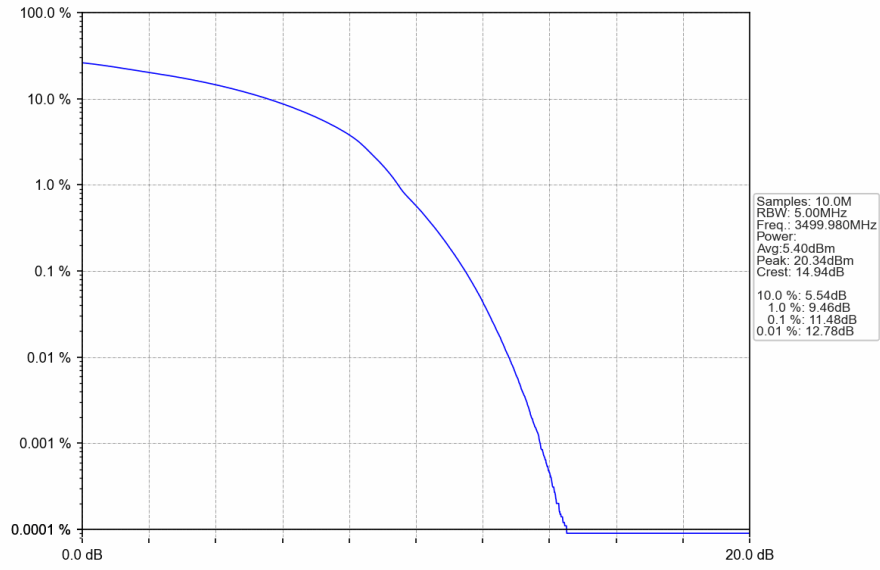
n78e_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_3500.01MHz_Outer_Full



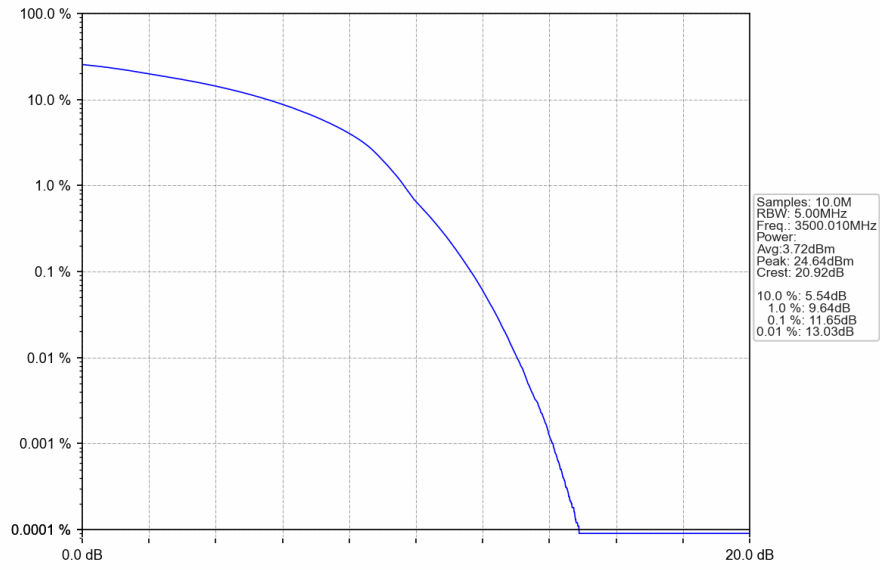
n78e_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_3500.01MHz_Outer_Full



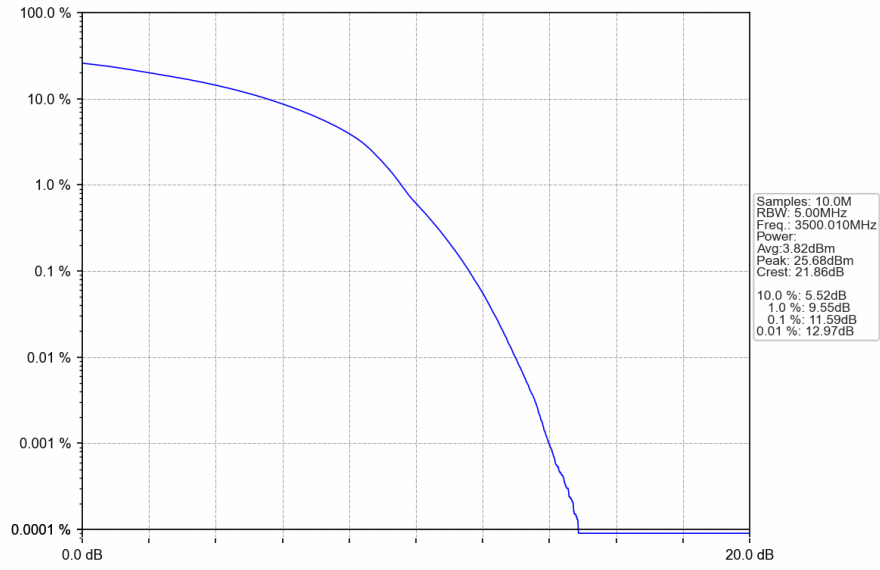
n78e_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_3499.98MHz_Outer_Full



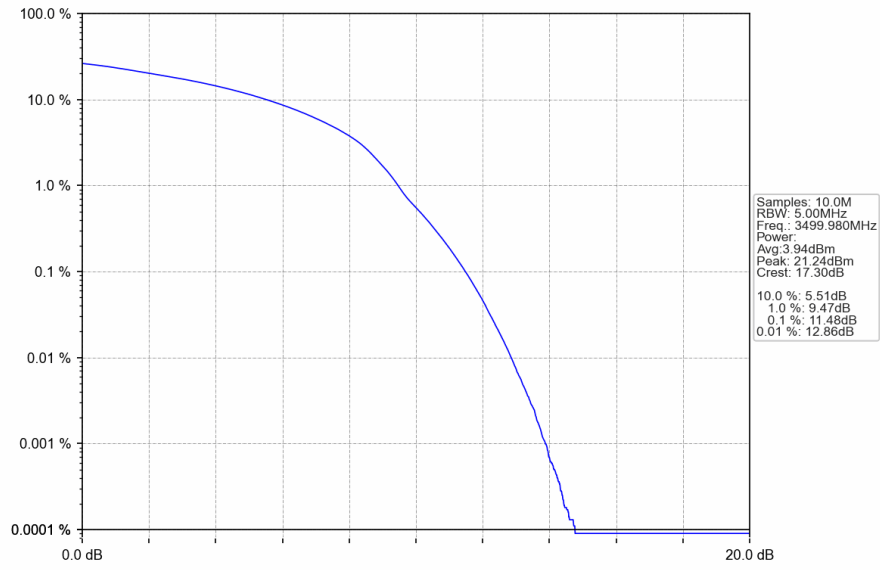
n78e_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 64 QAM_3500.01MHz_Outer_Full



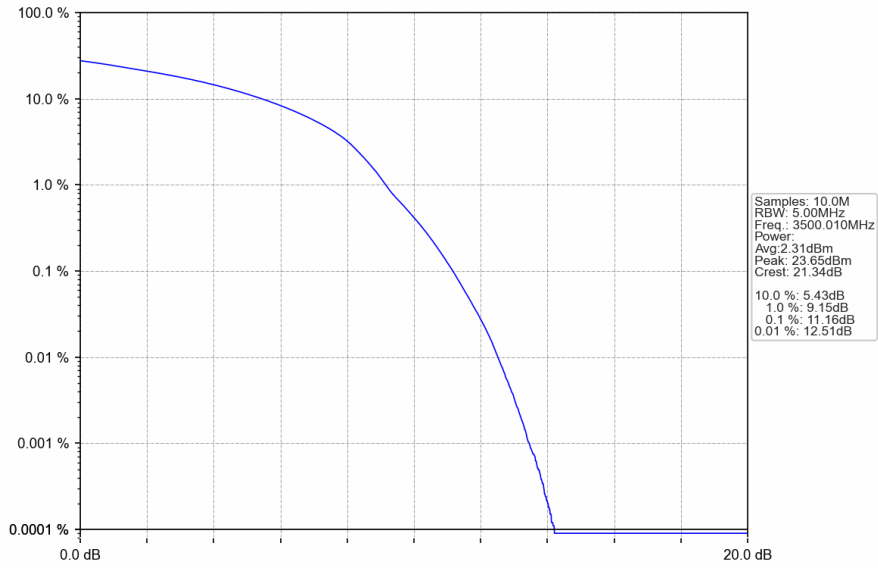
n78e_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 64 QAM_3500.01MHz_Outer_Full



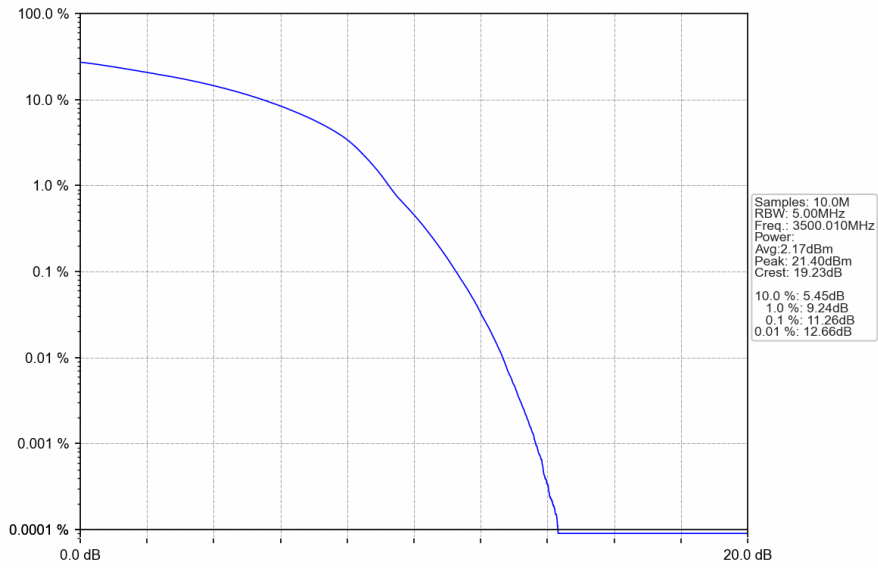
n78e_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 64 QAM_3499.98MHz_Outer_Full



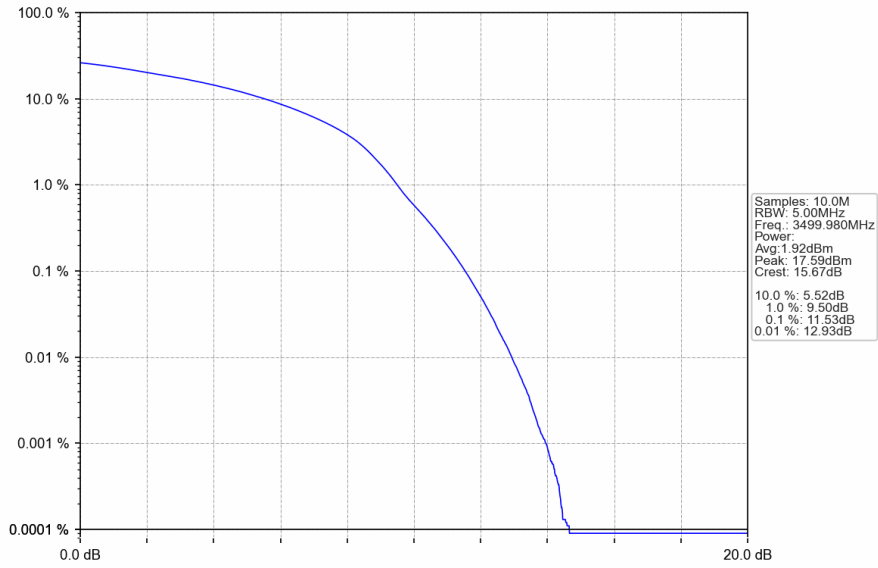
n78e_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



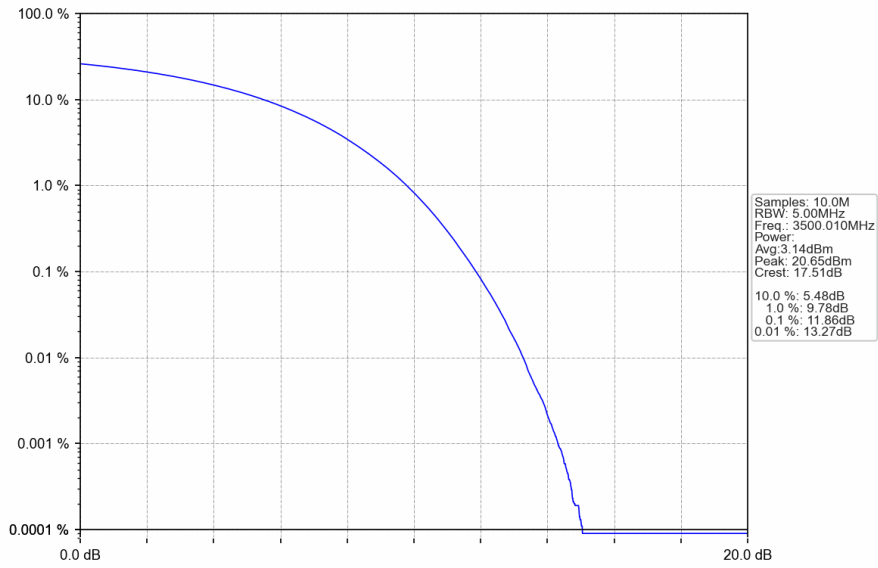
n78e_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



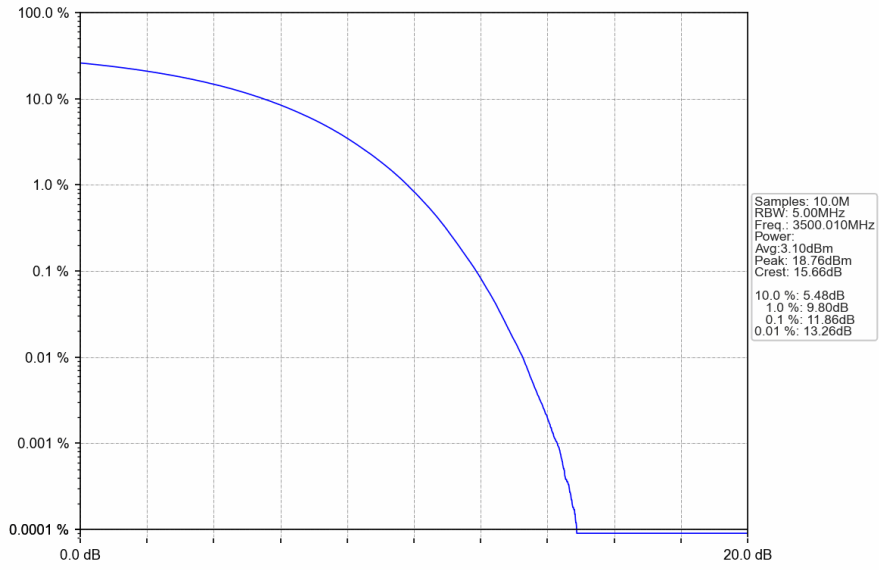
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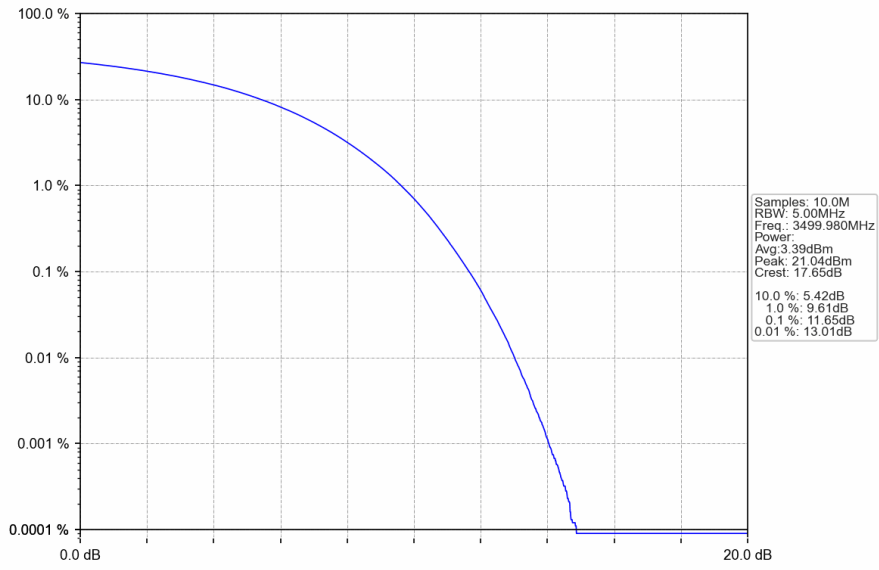
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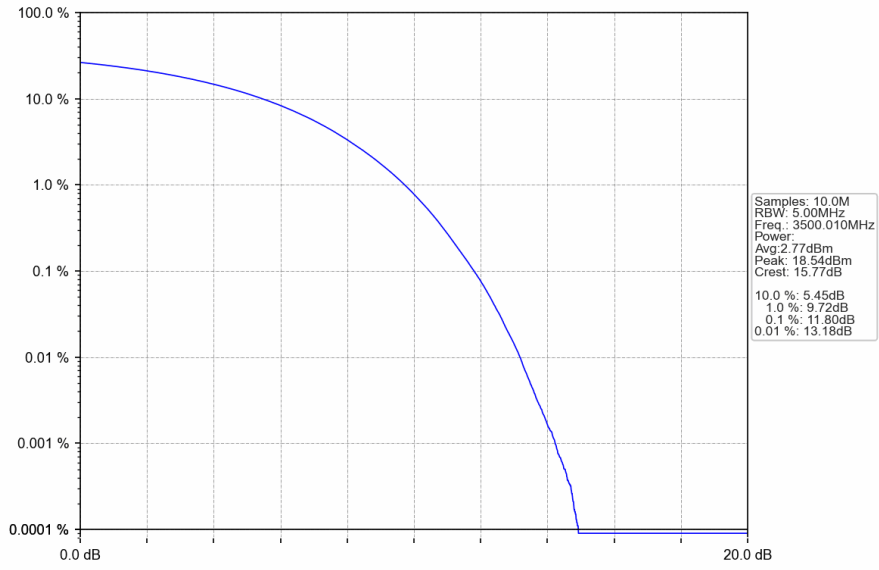
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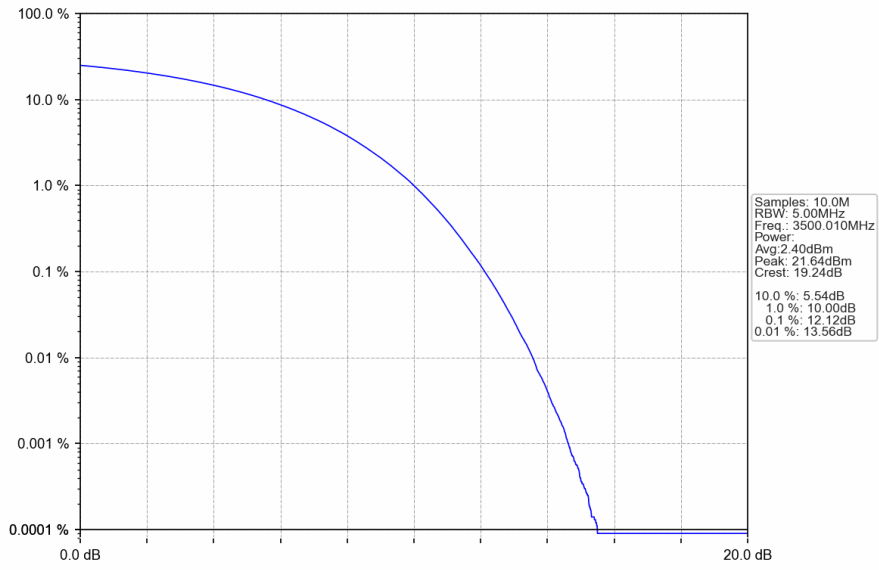
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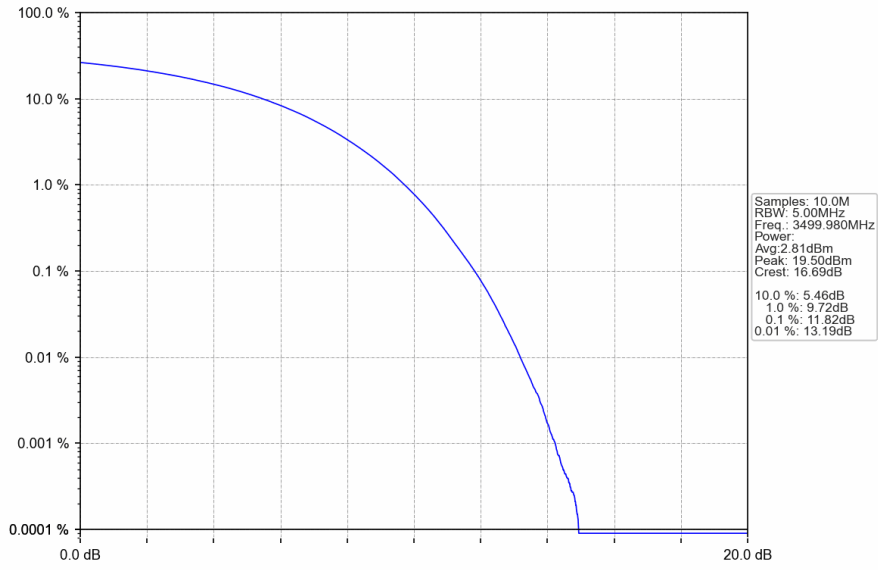
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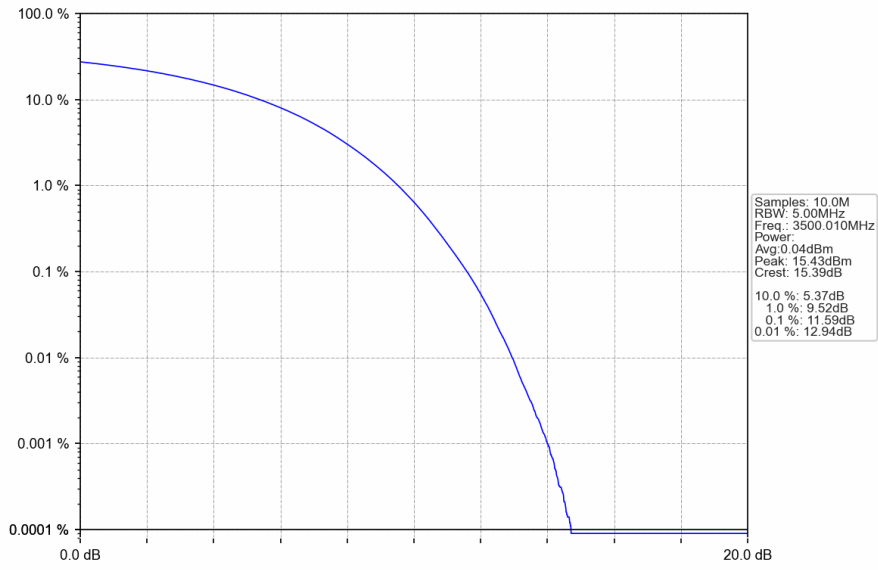
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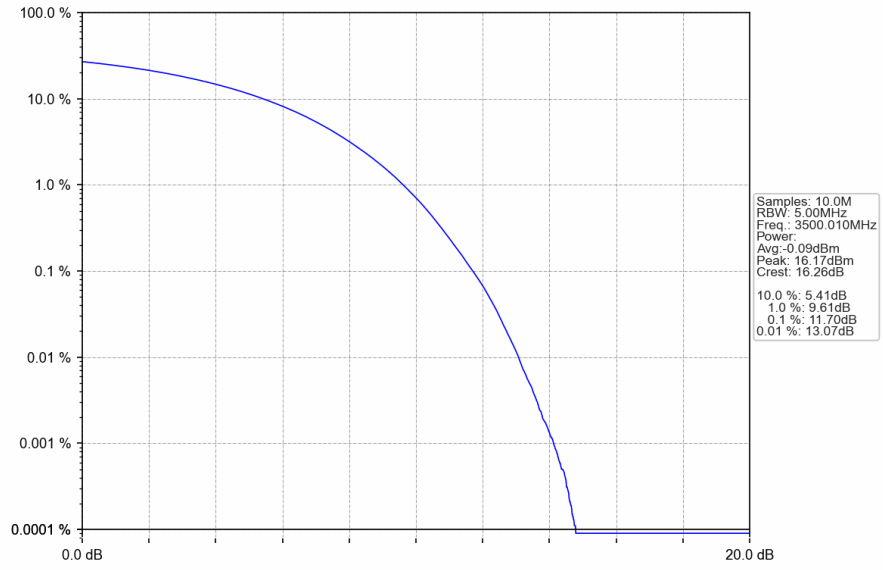
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n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM_3499.98MHz_Outer_Full

