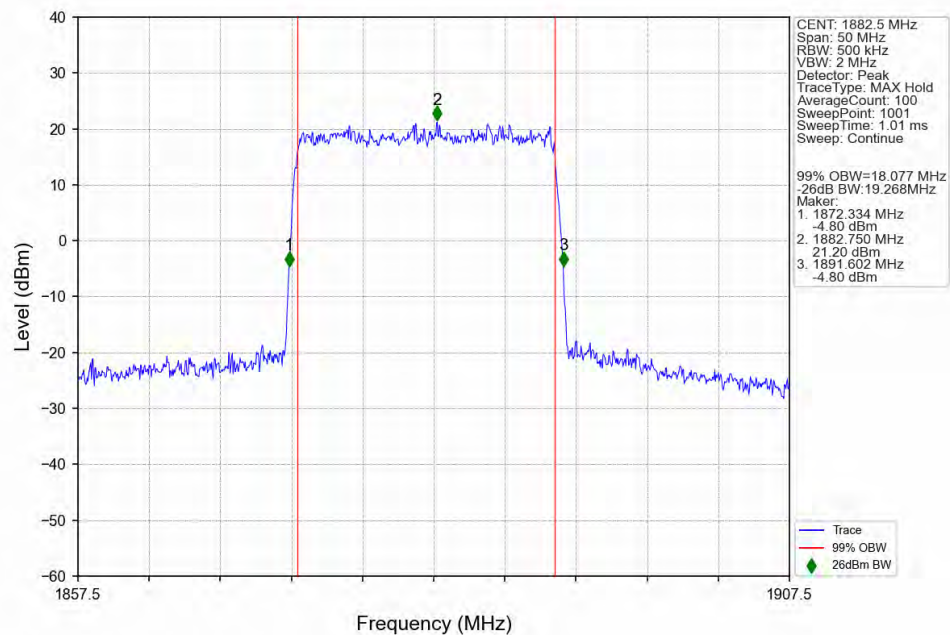
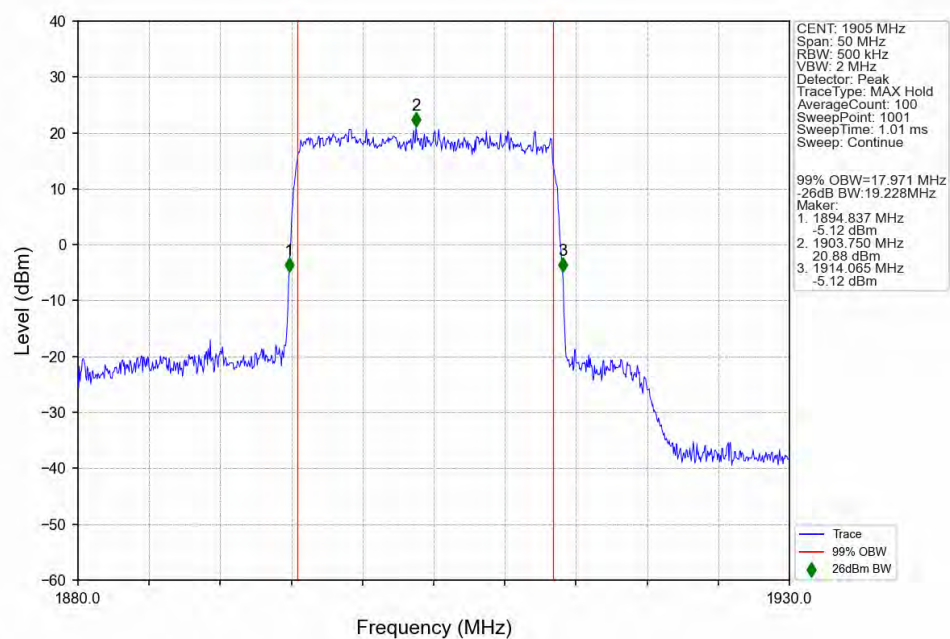


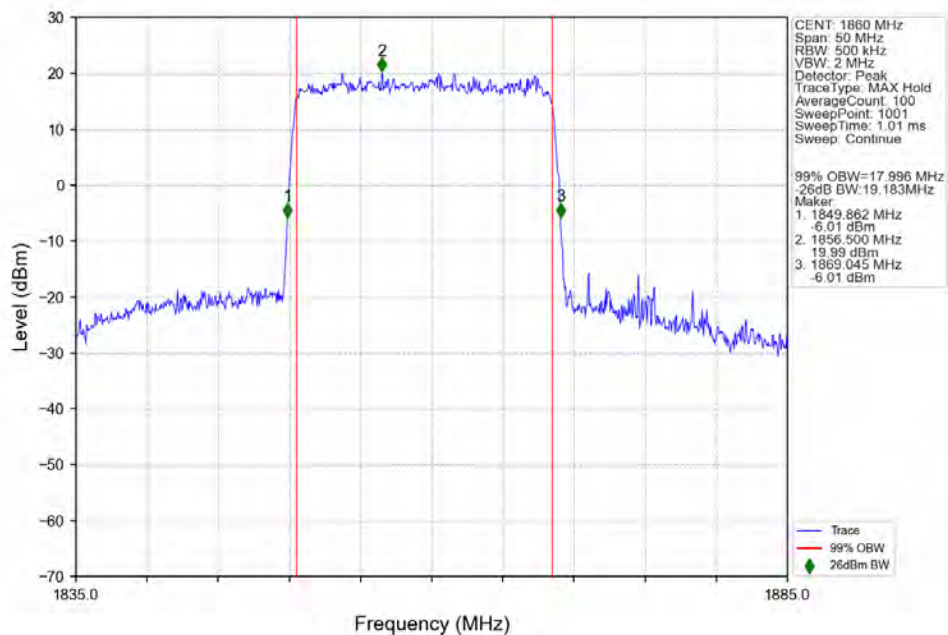
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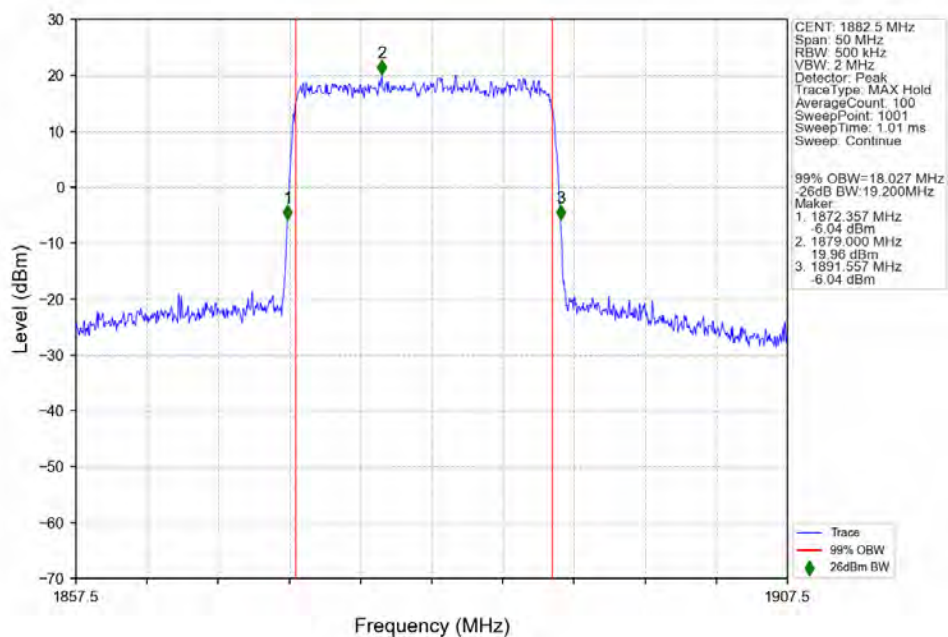
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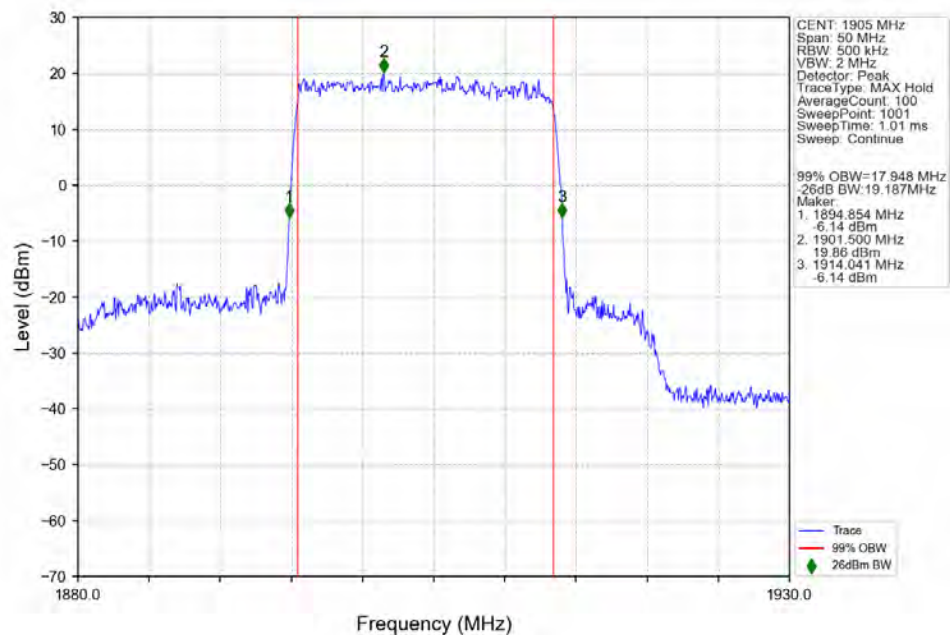
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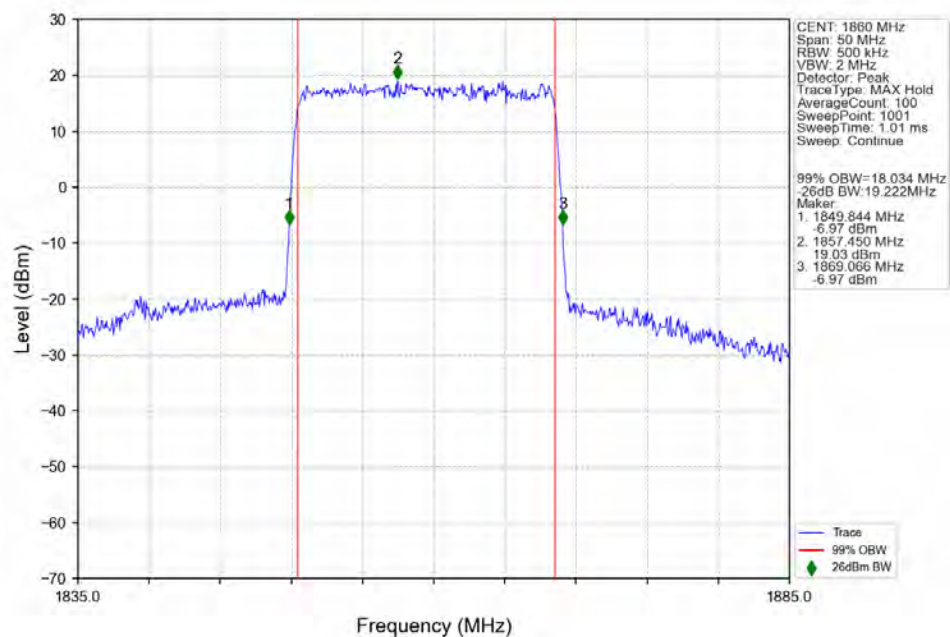
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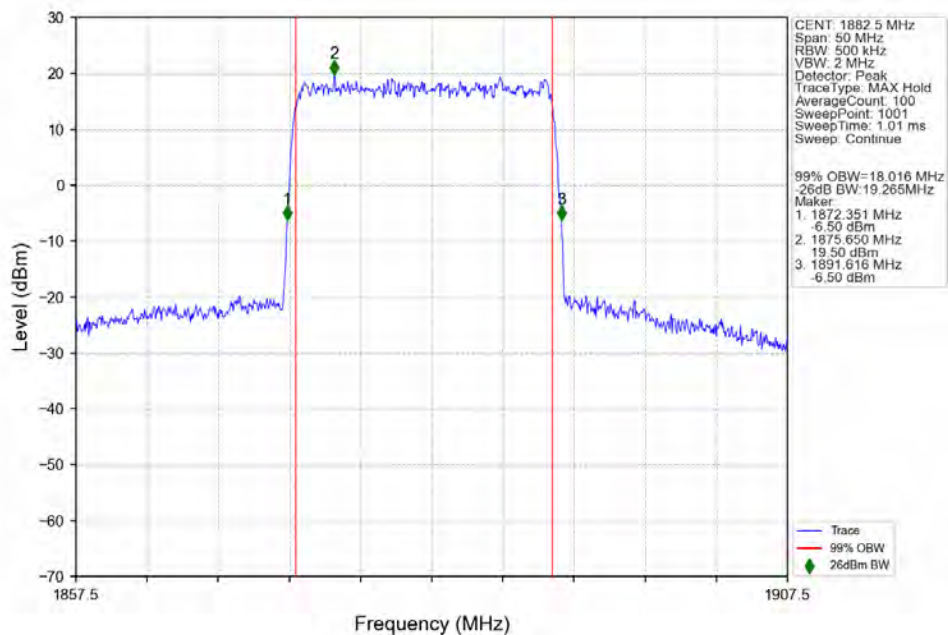
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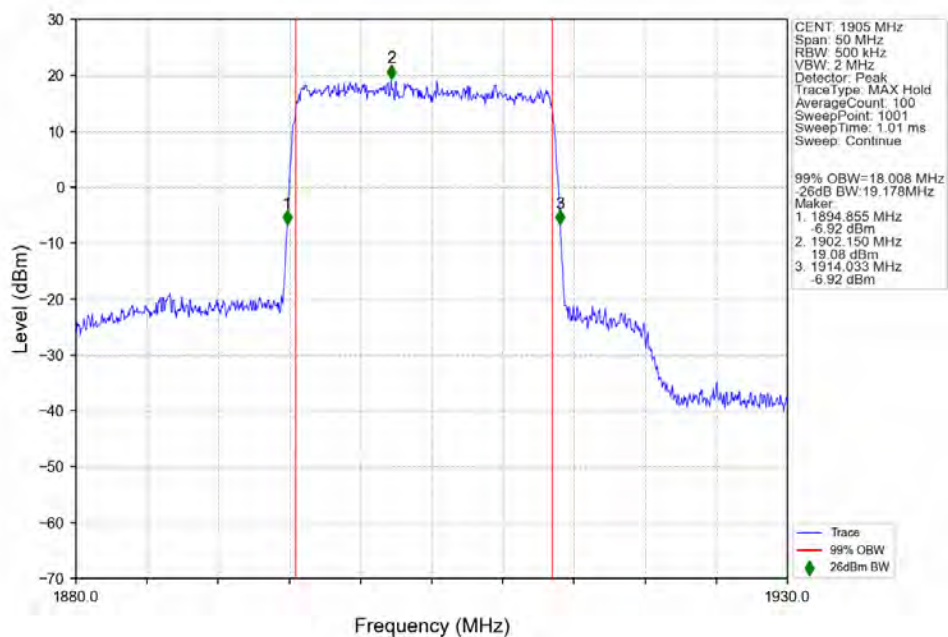
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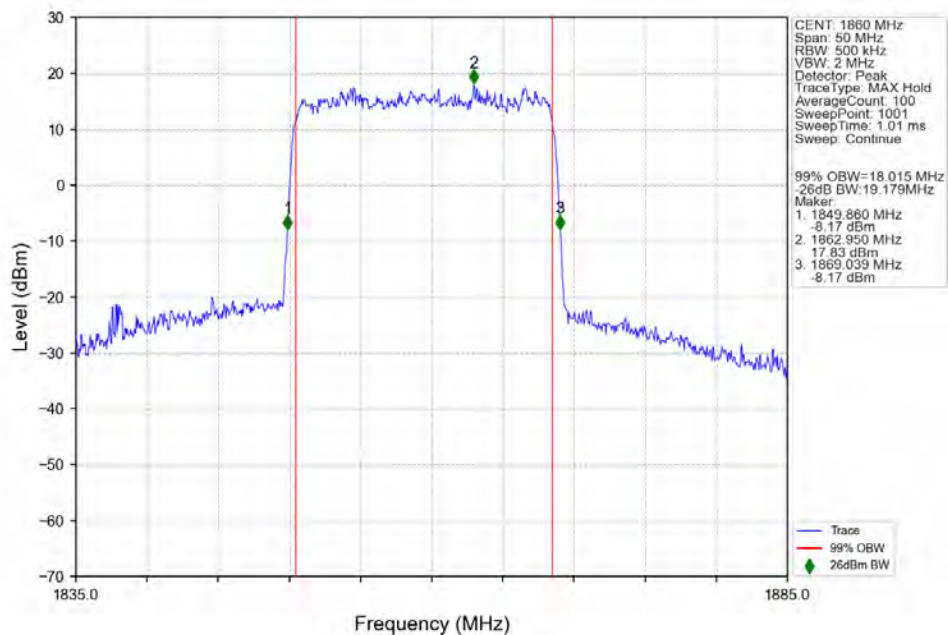
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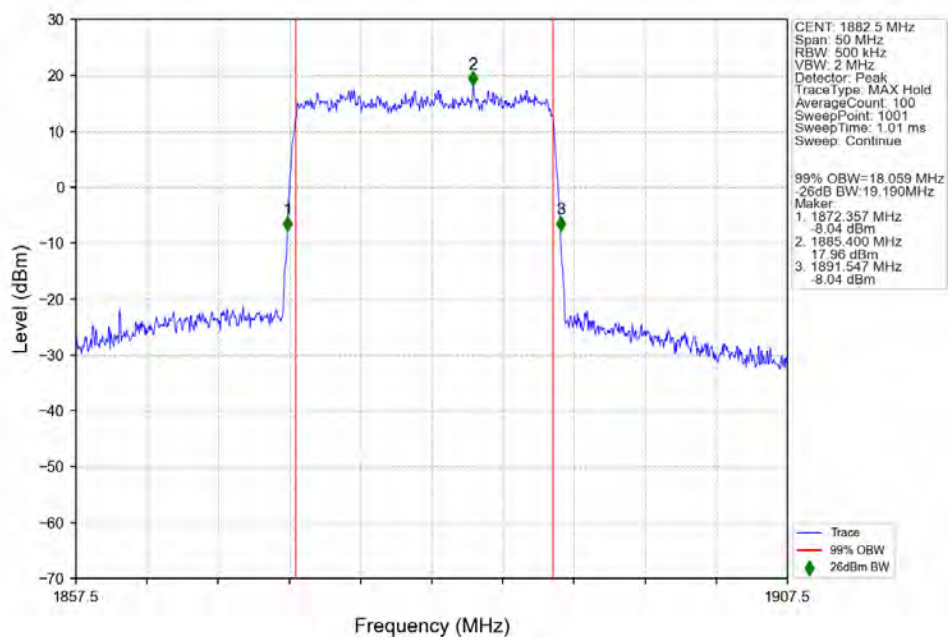
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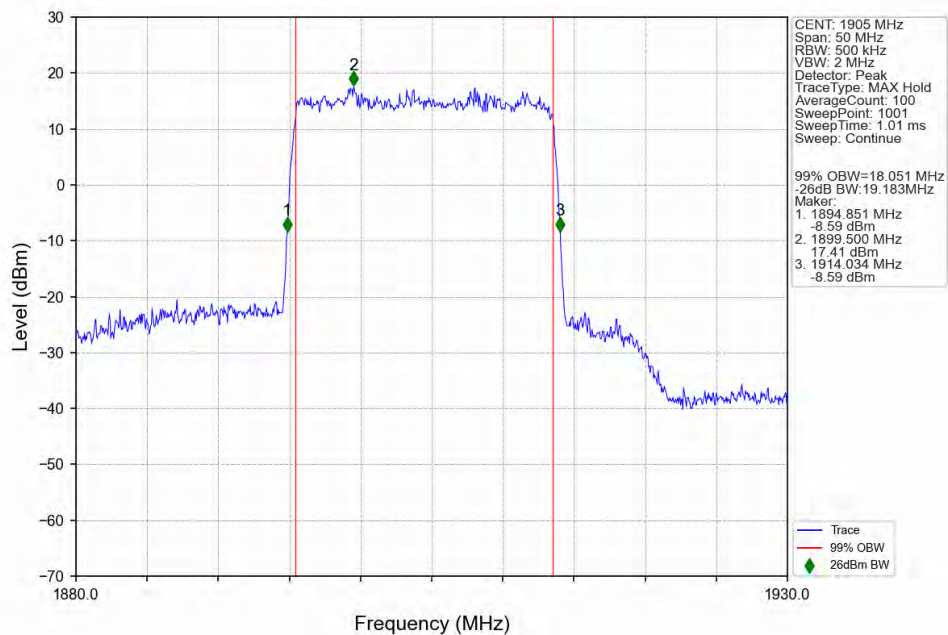
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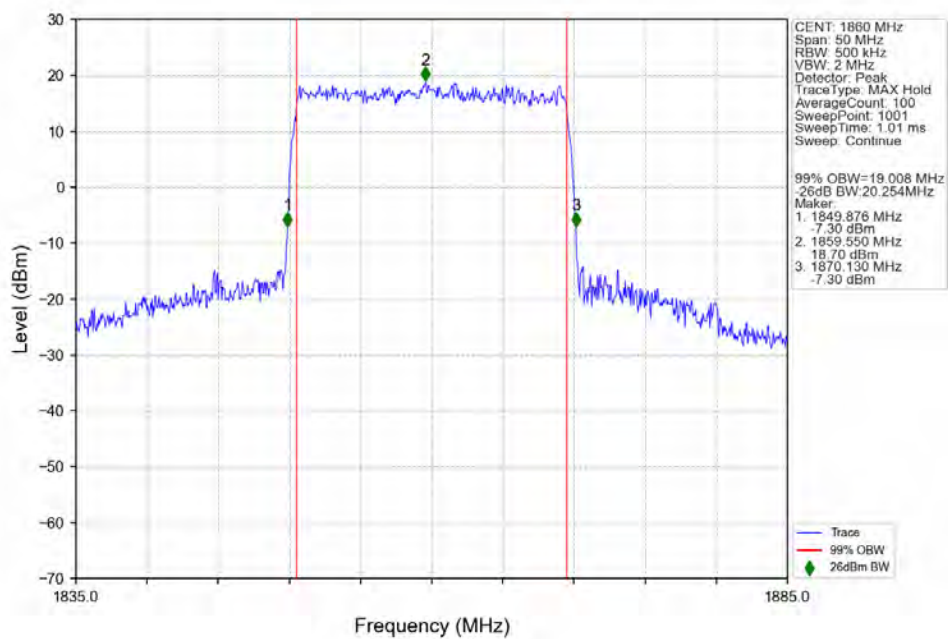
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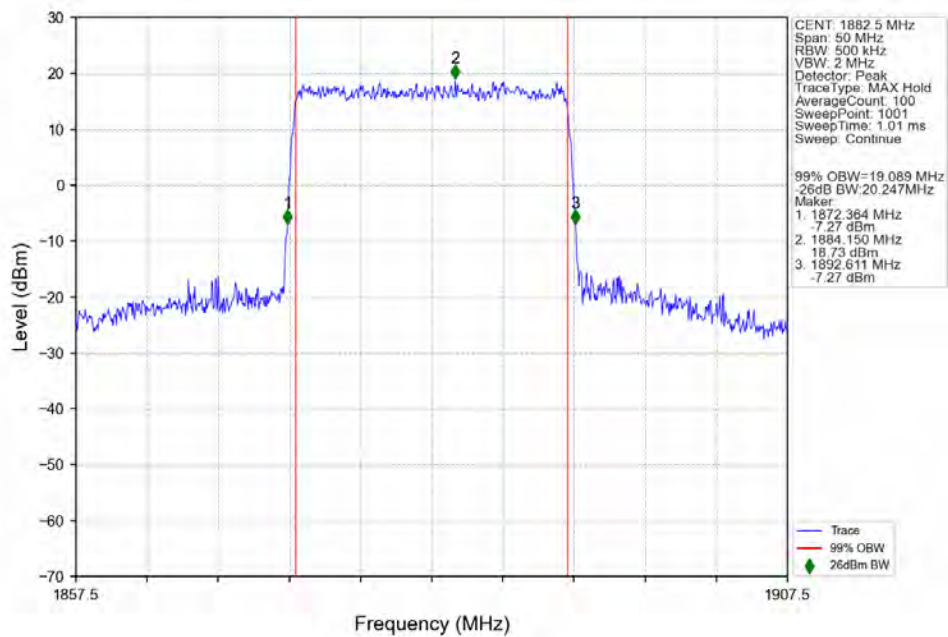
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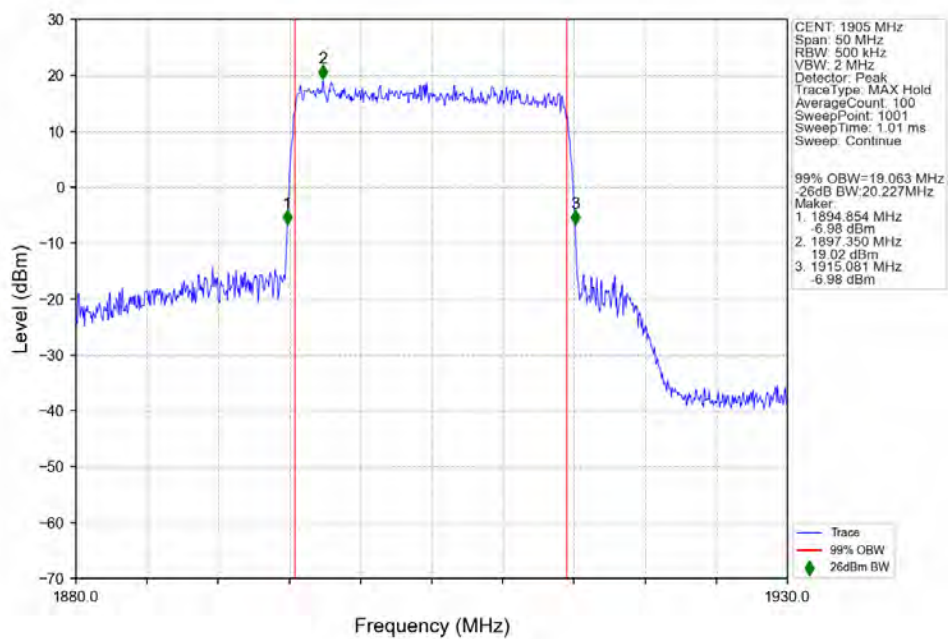
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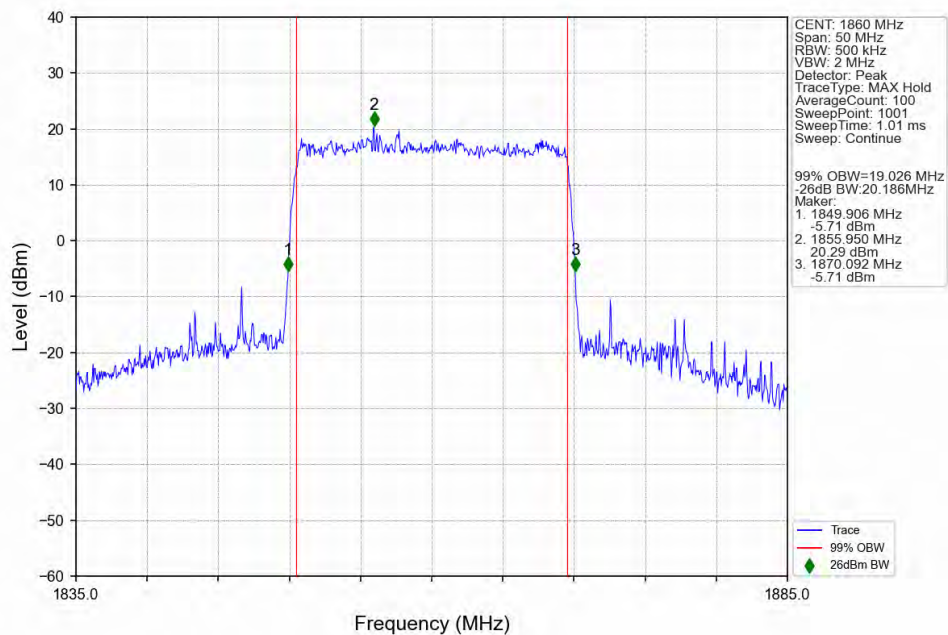
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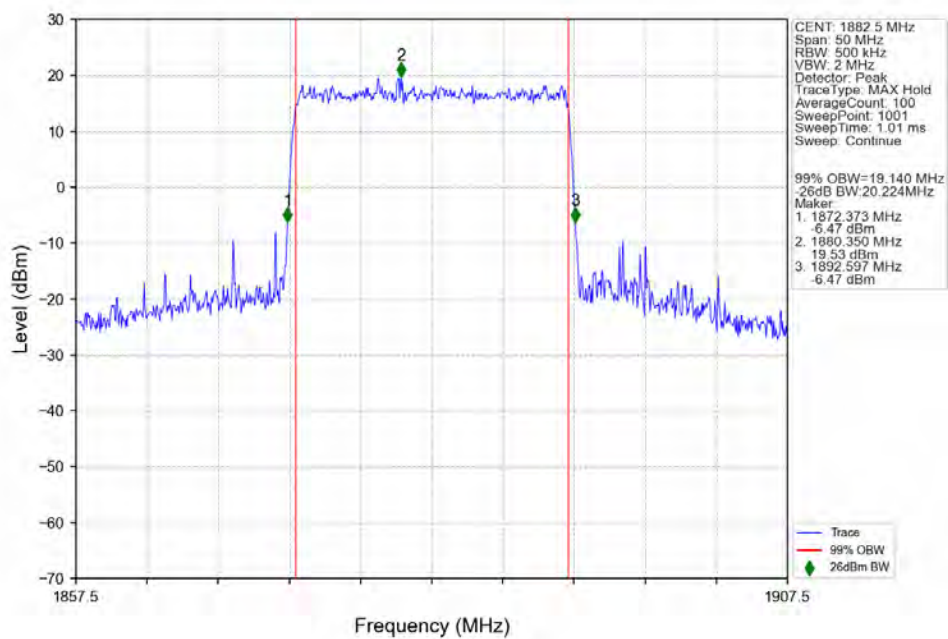
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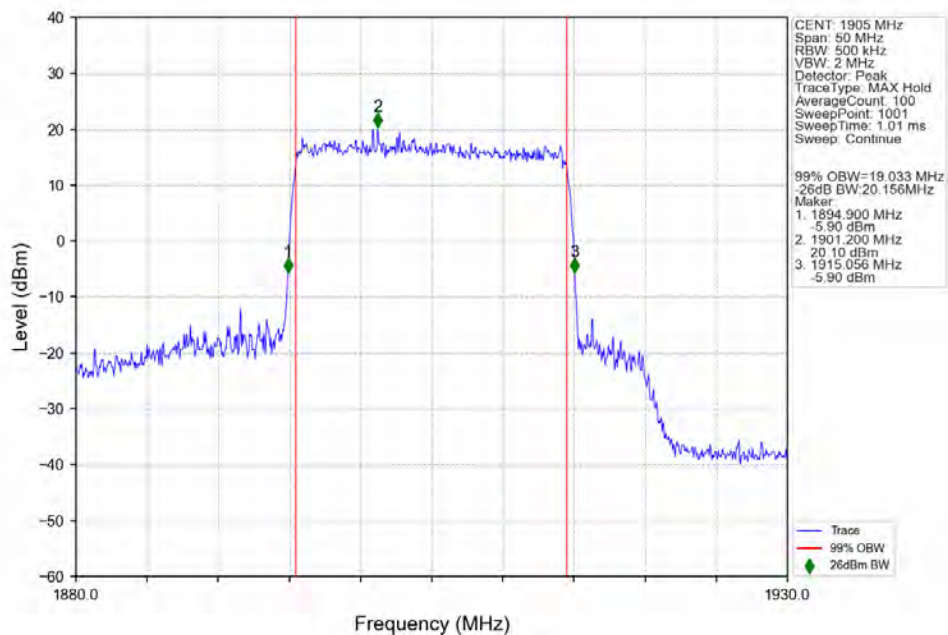
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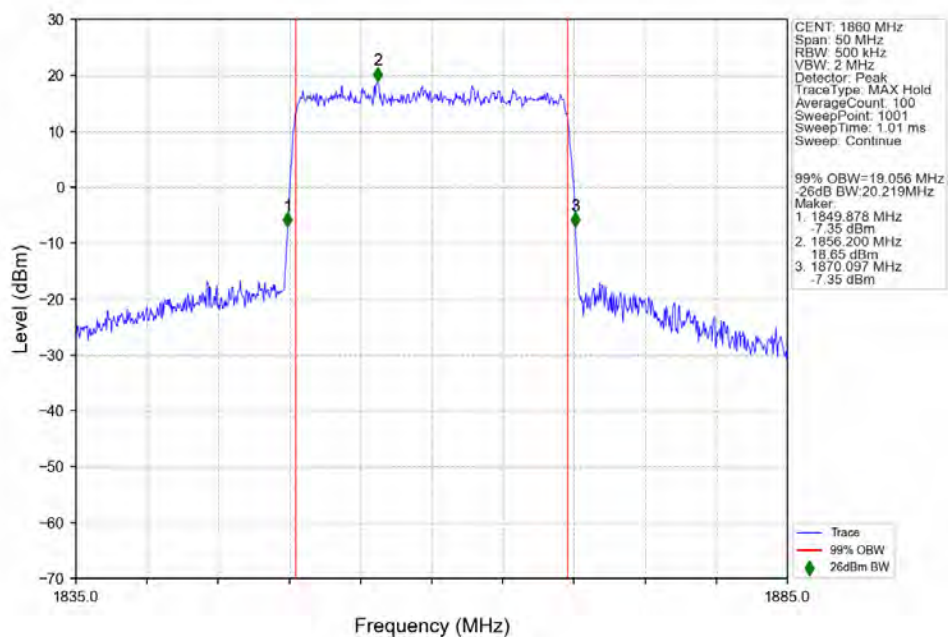
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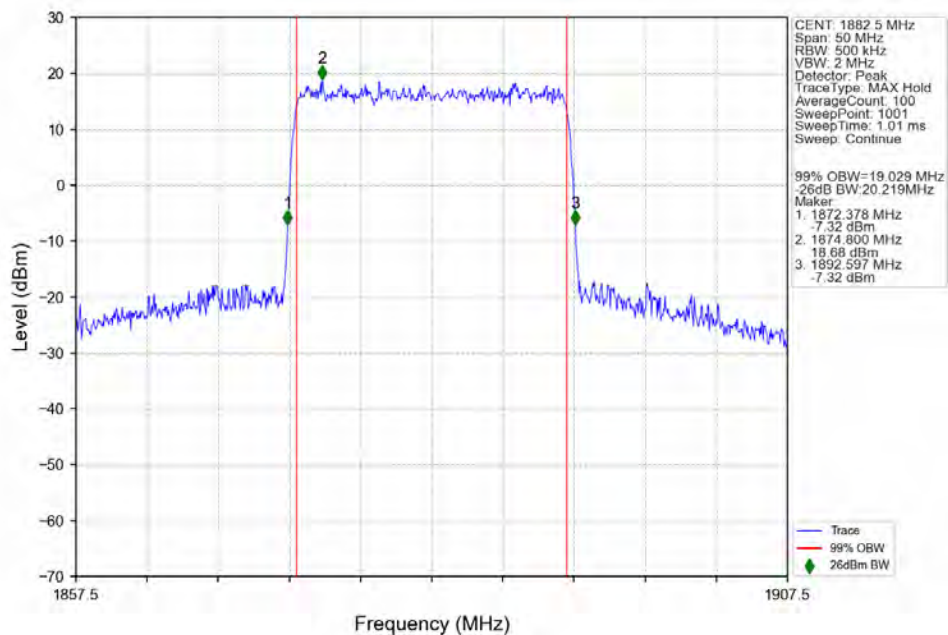
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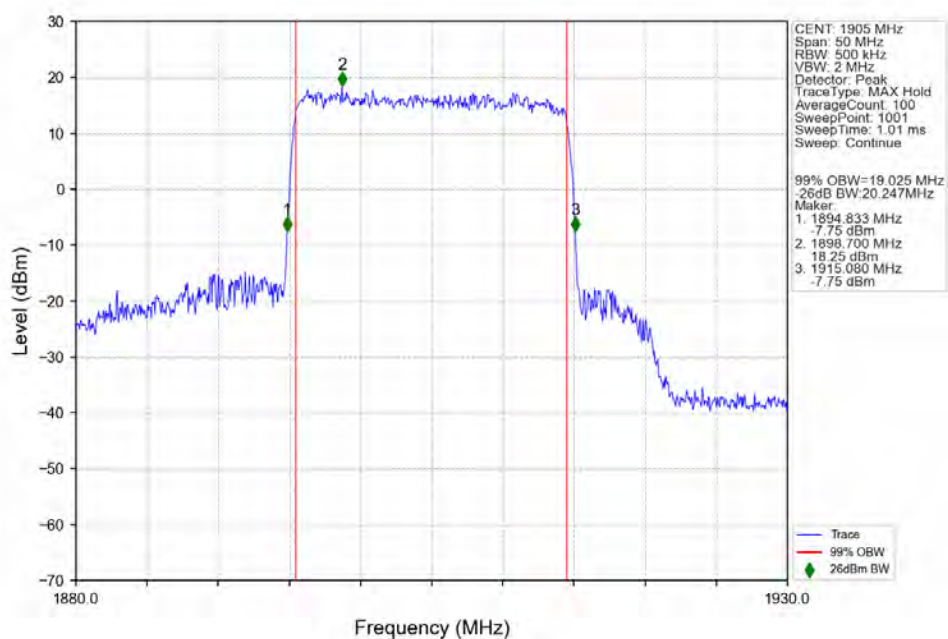
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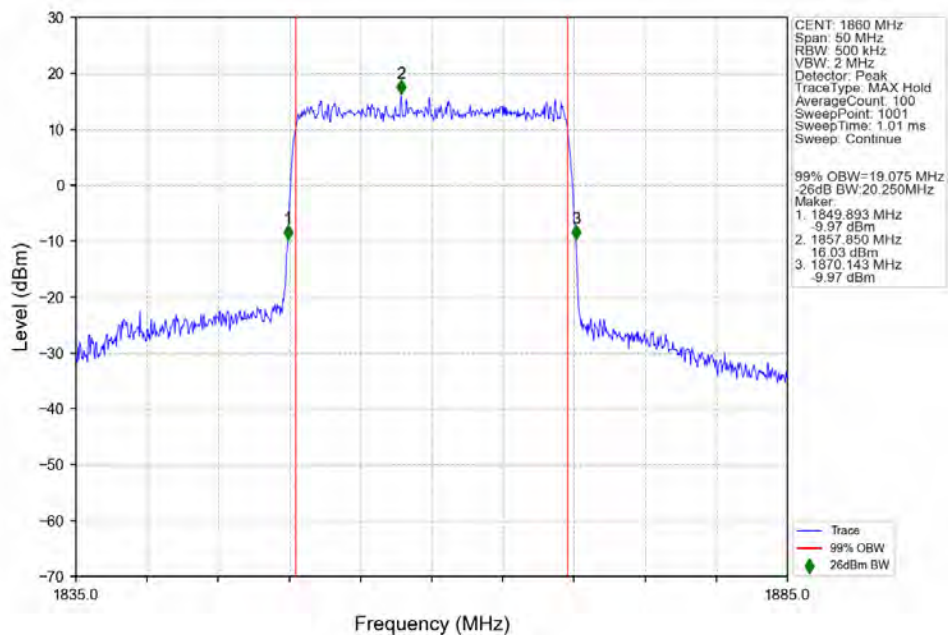
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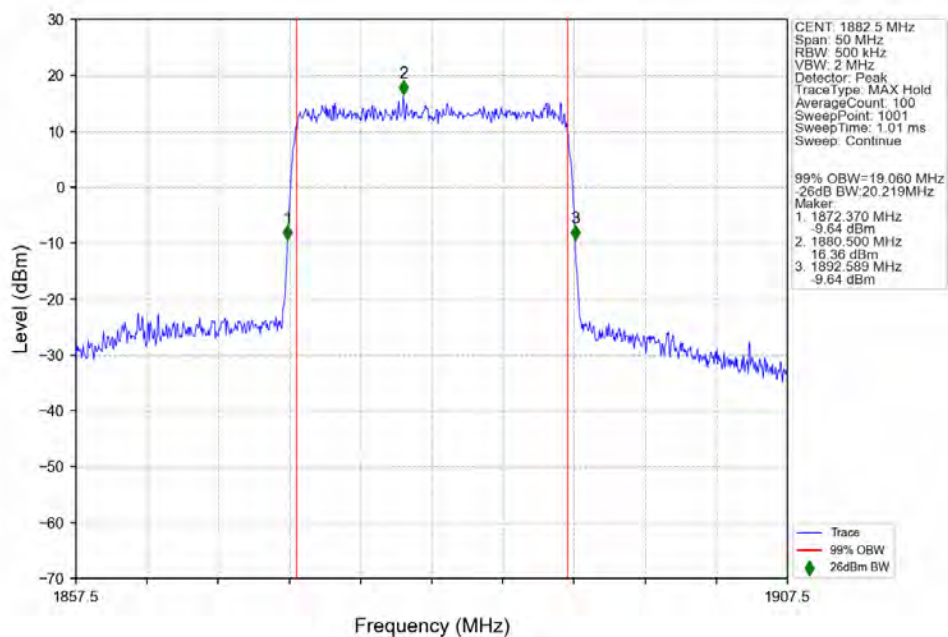
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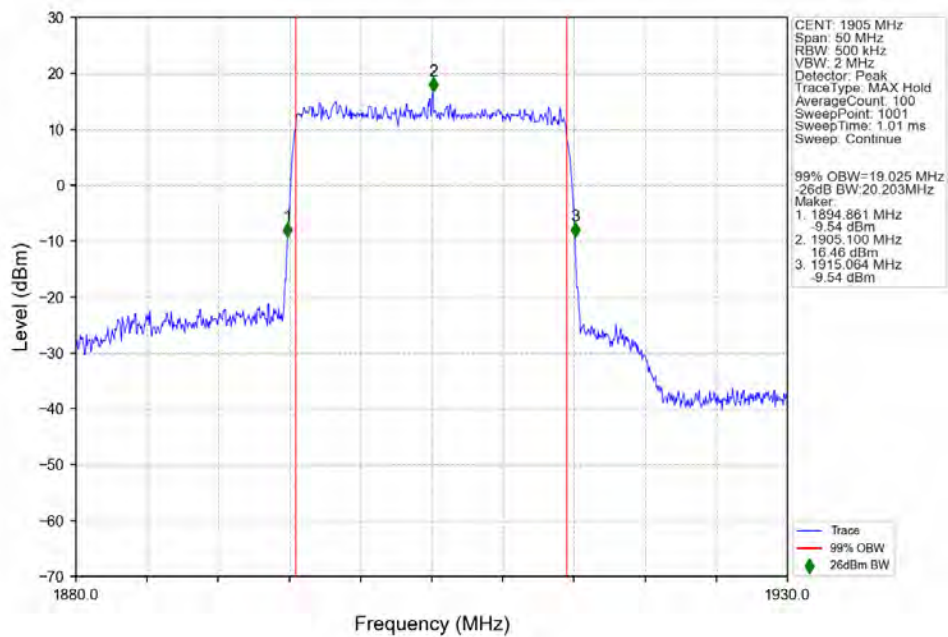
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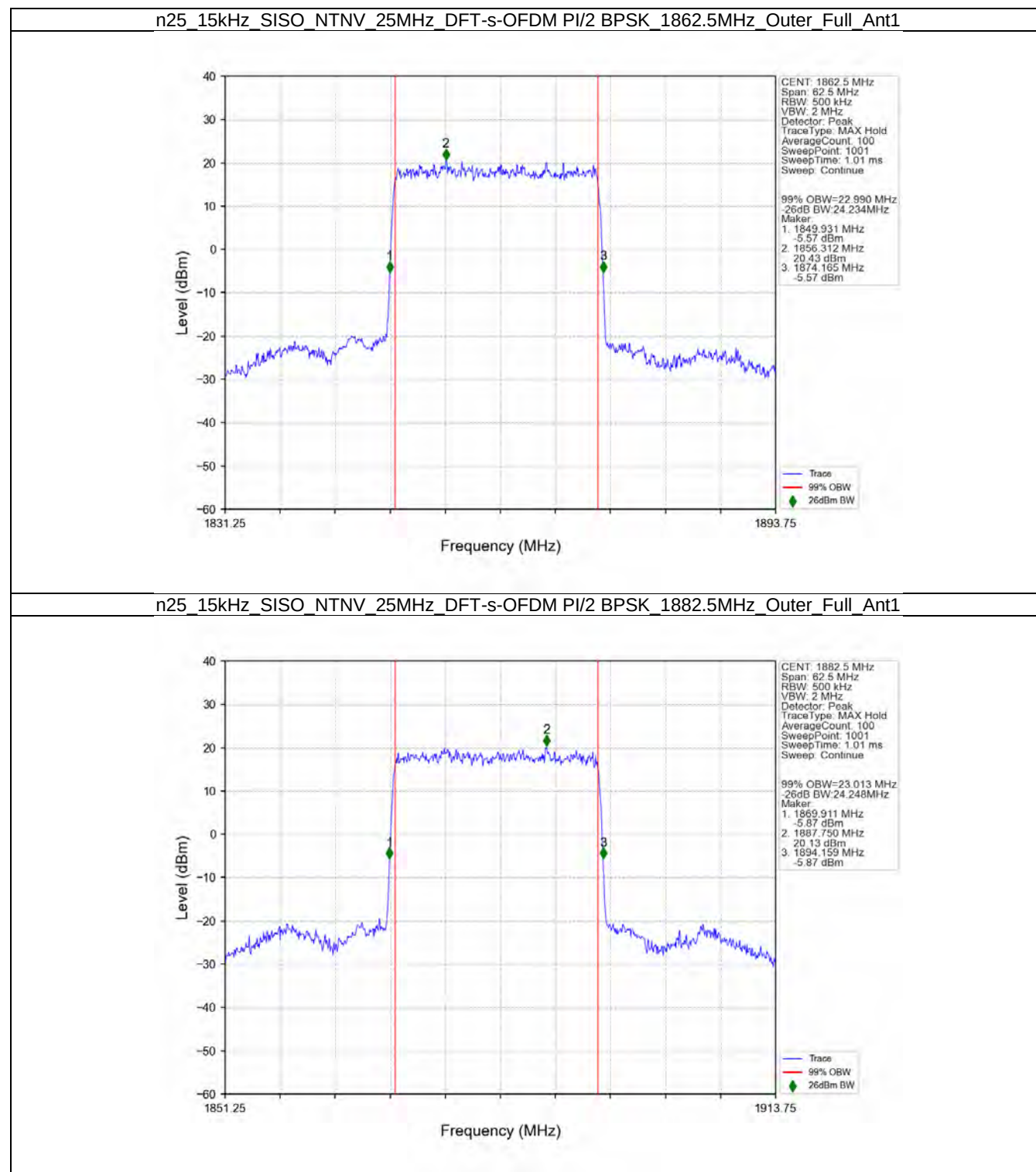
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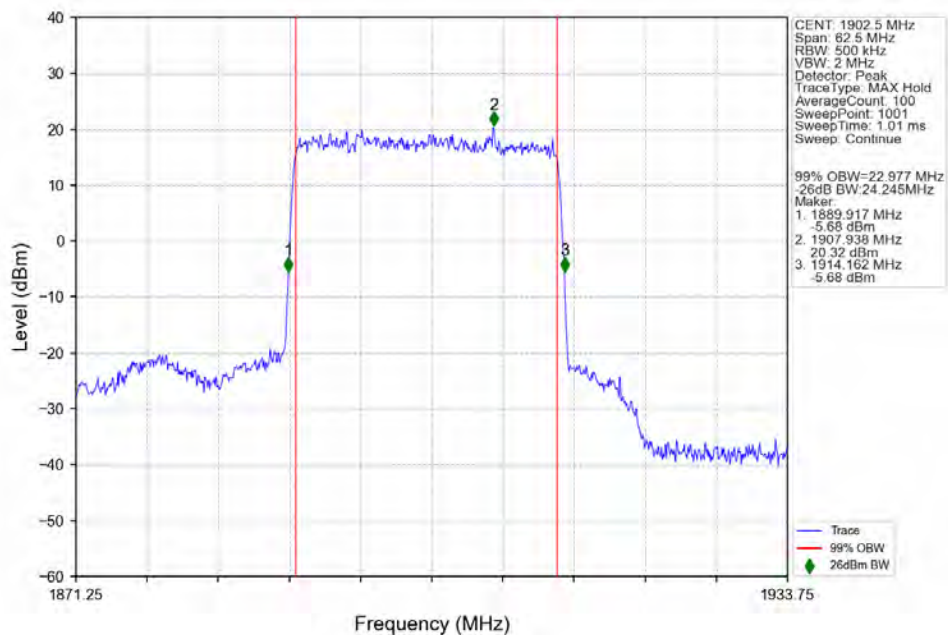
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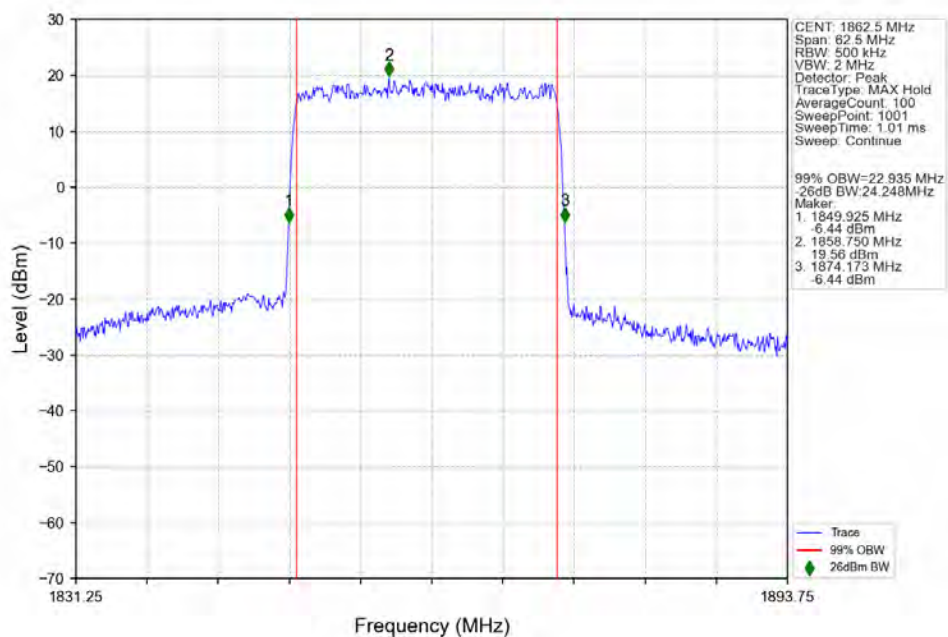
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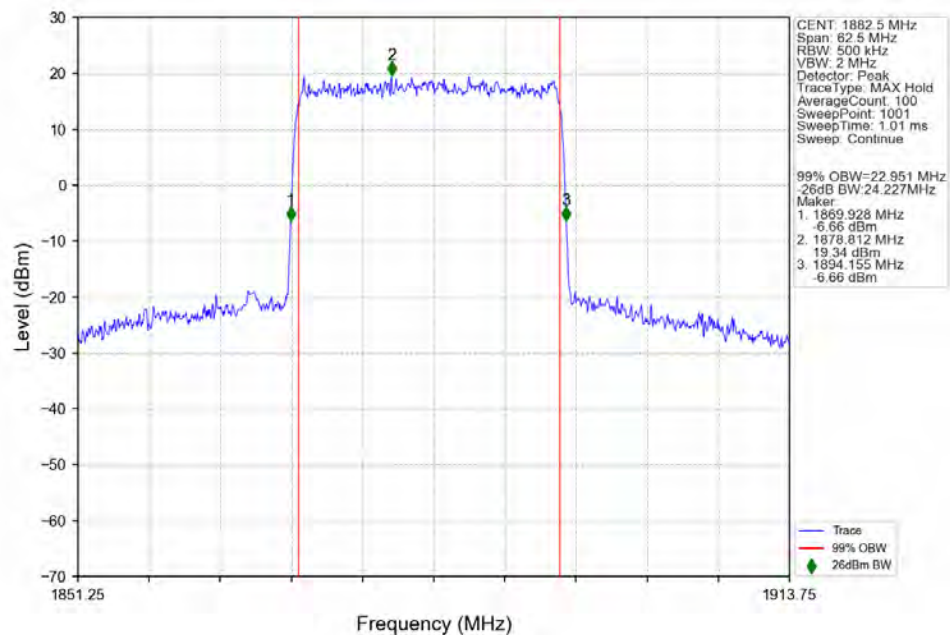
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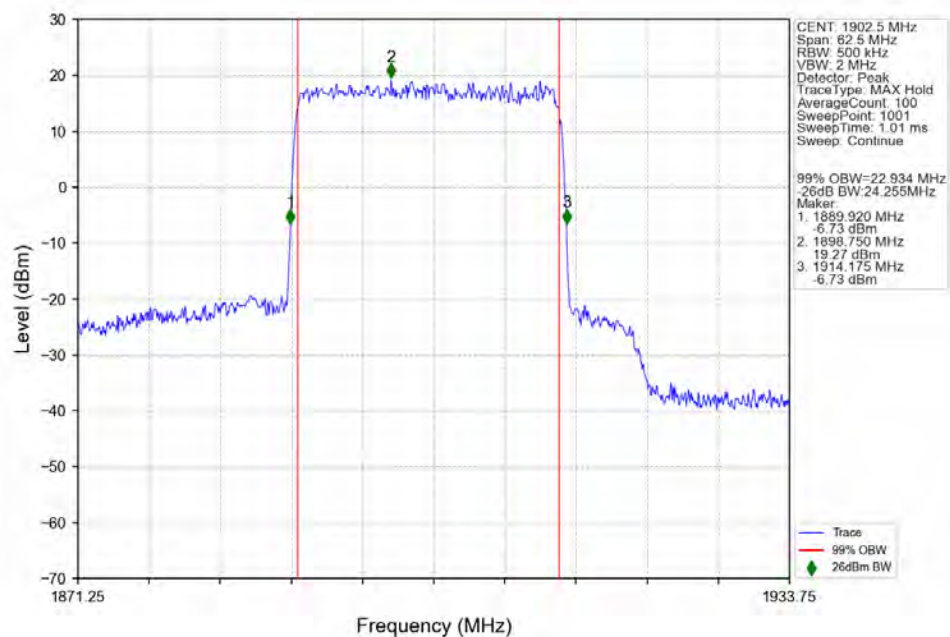
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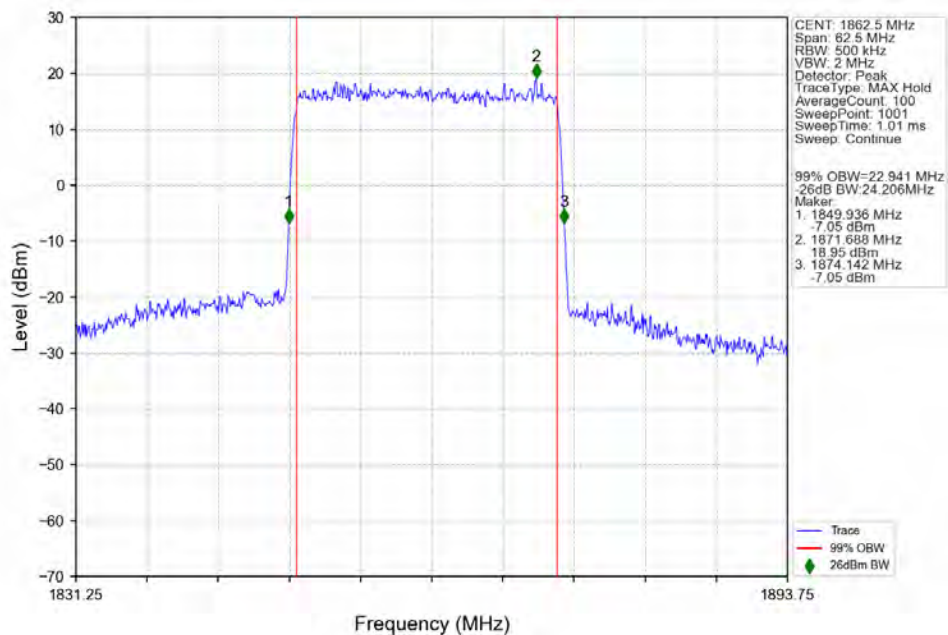
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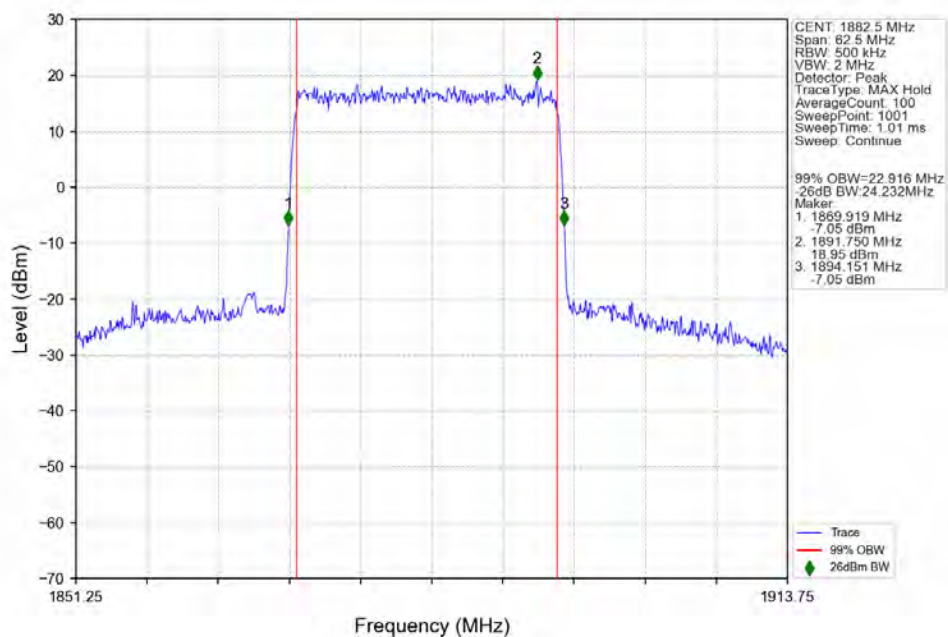
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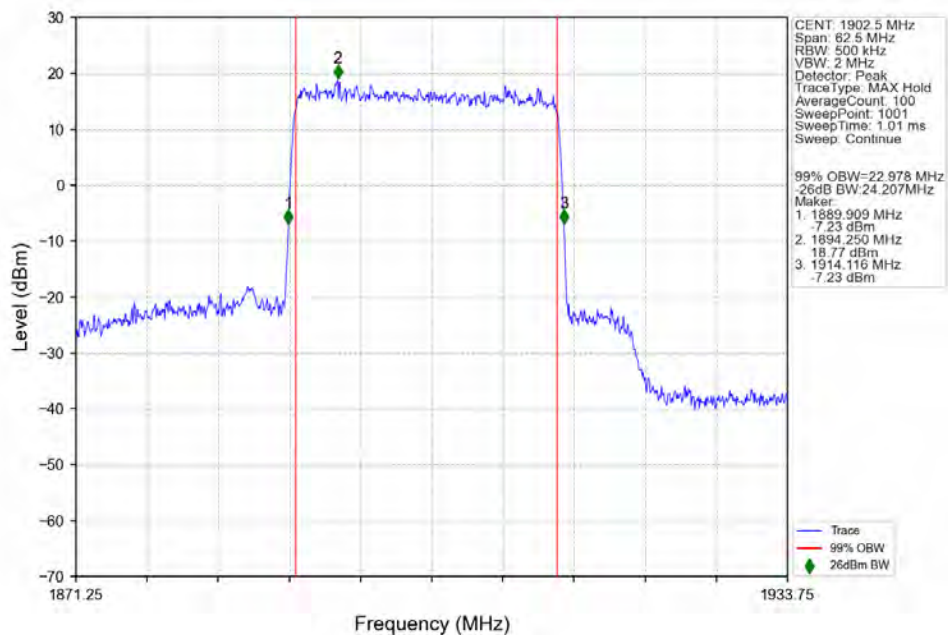
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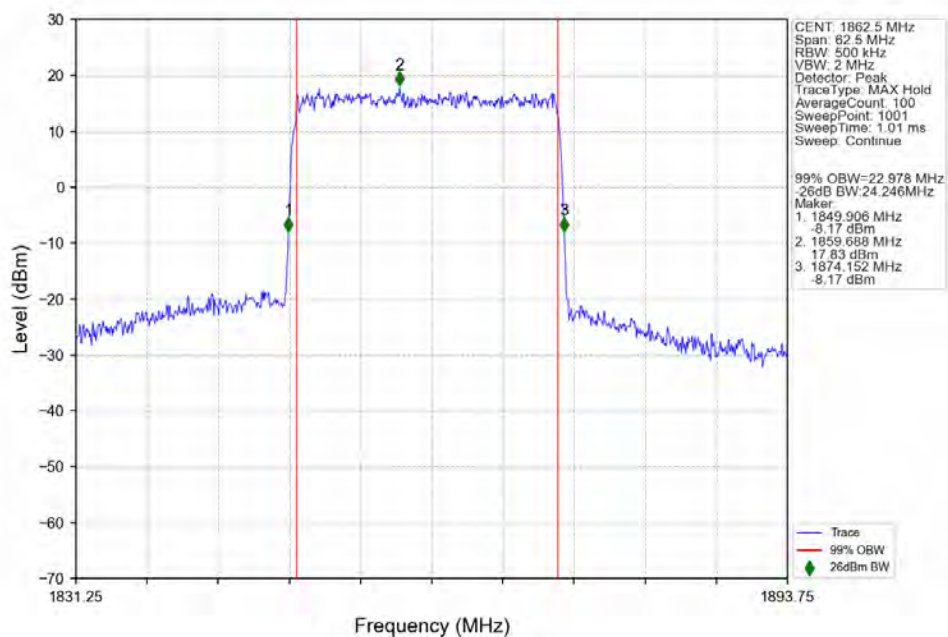
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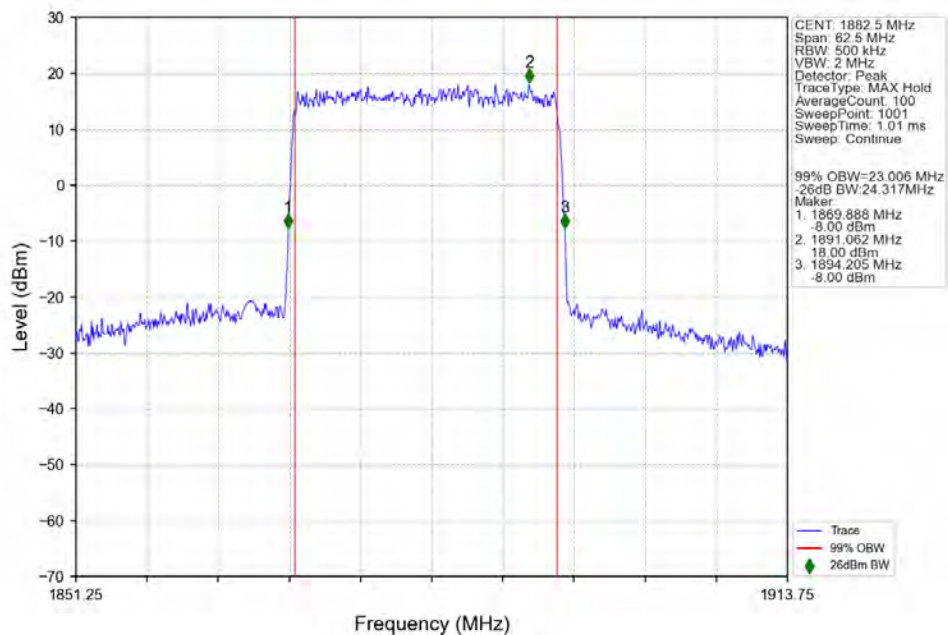
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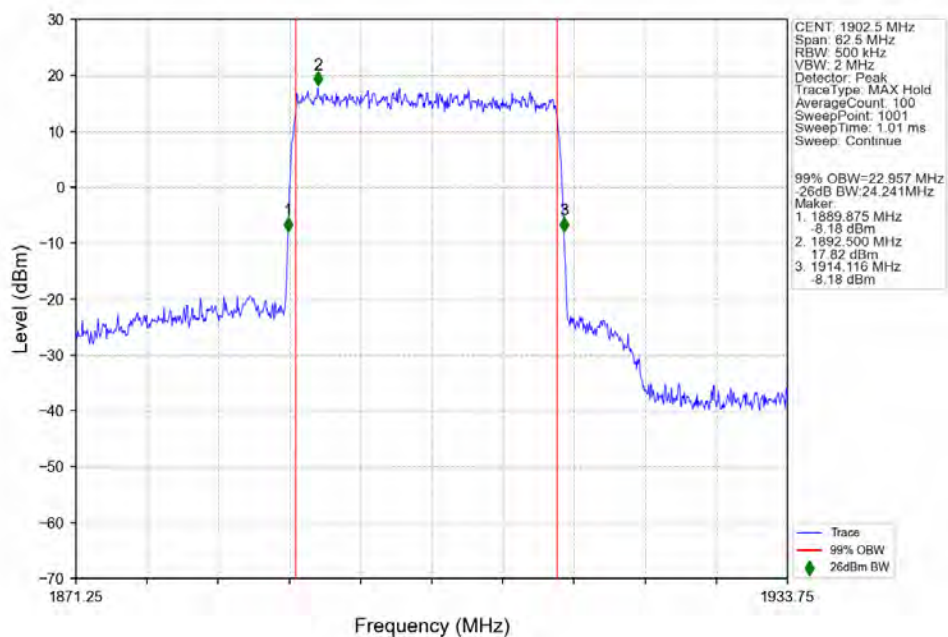
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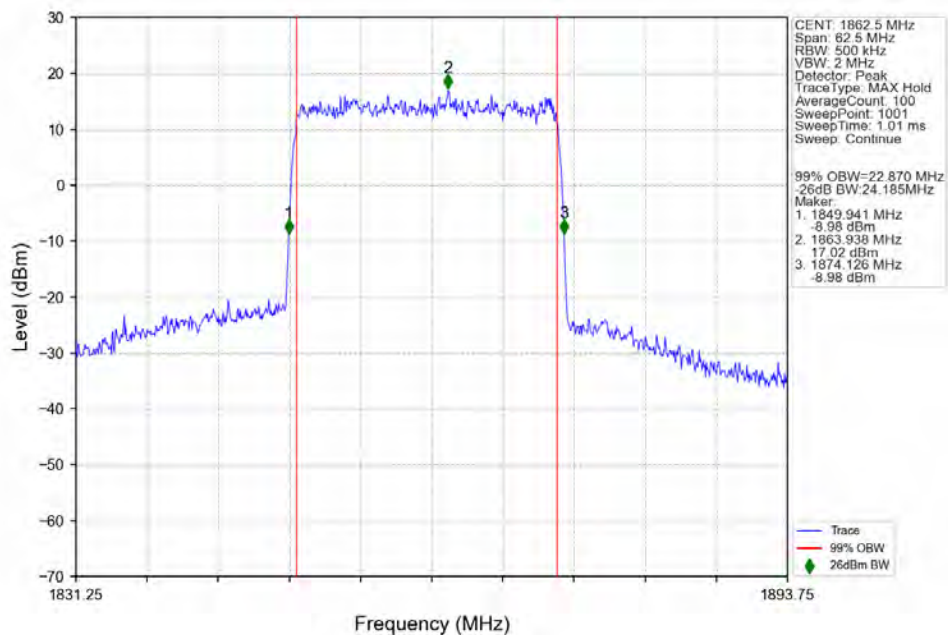
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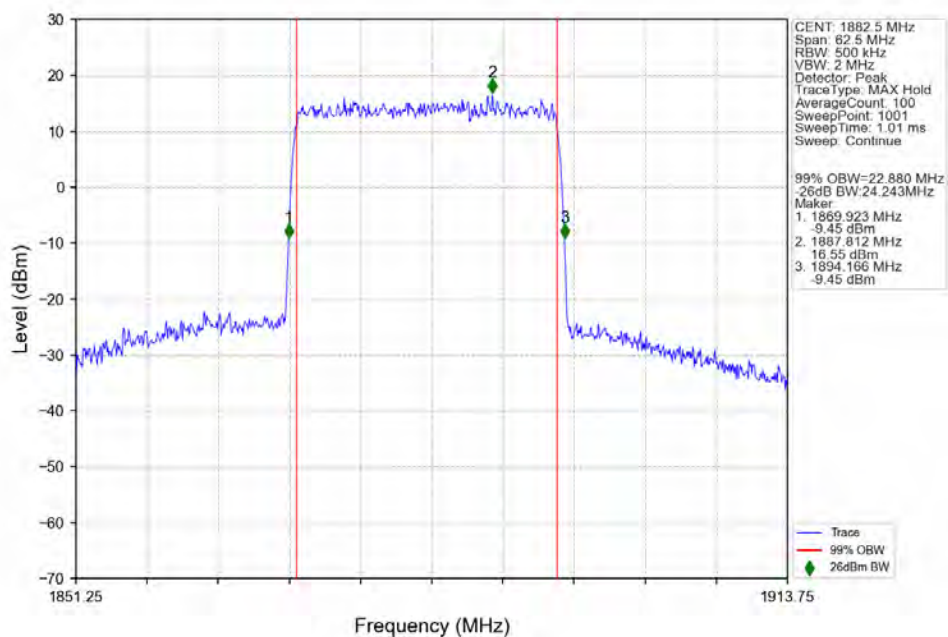
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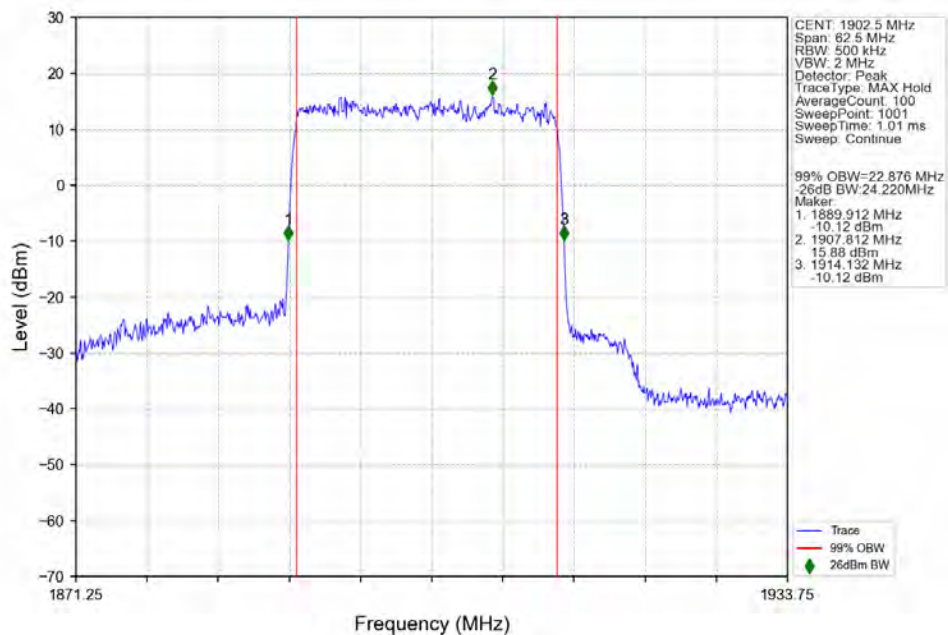
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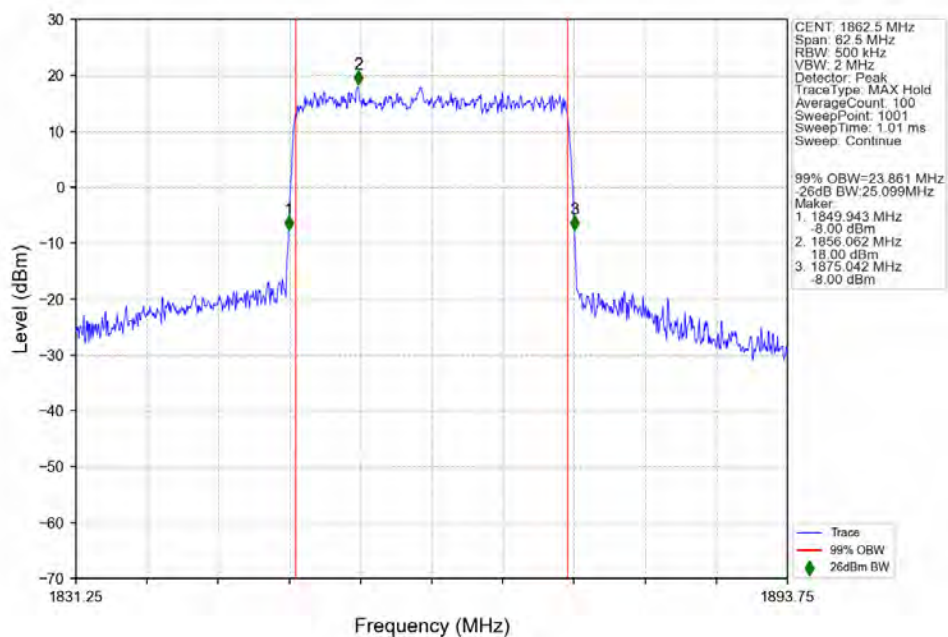
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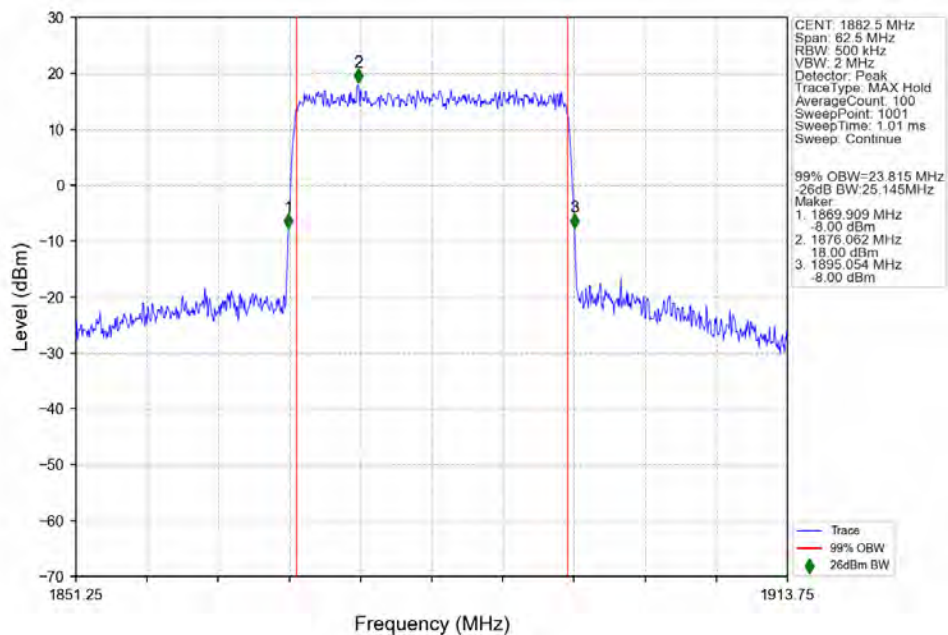
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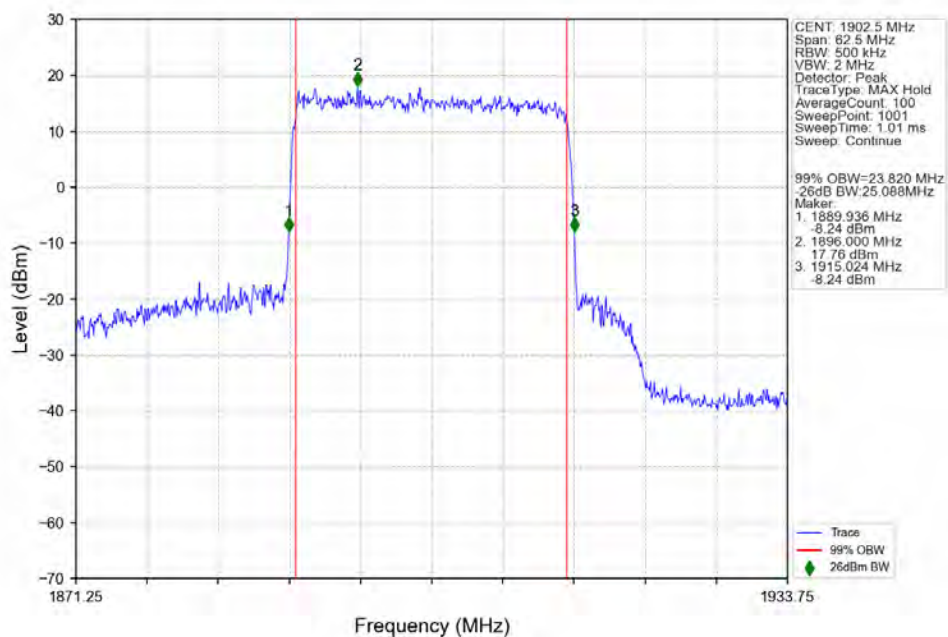
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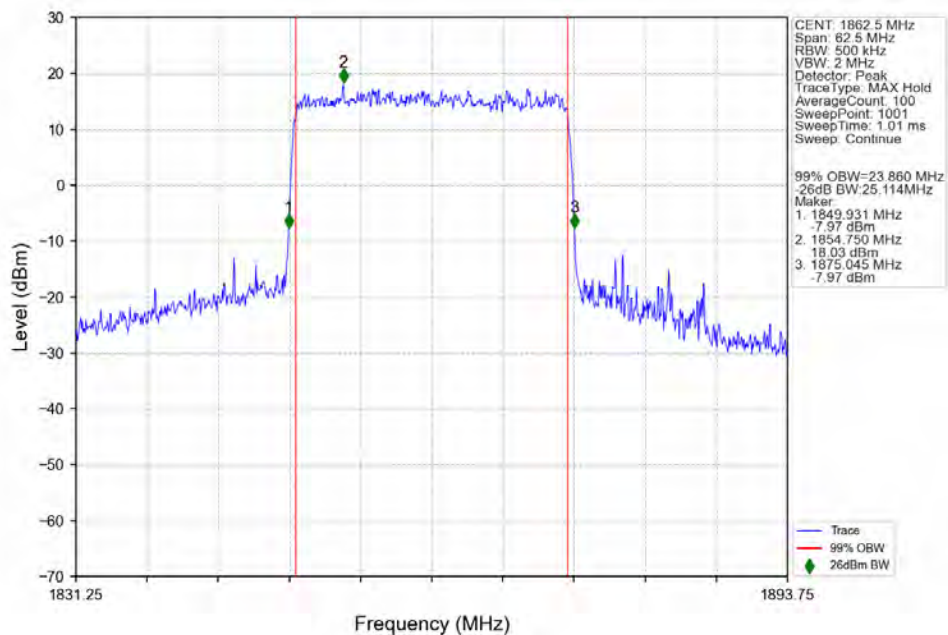
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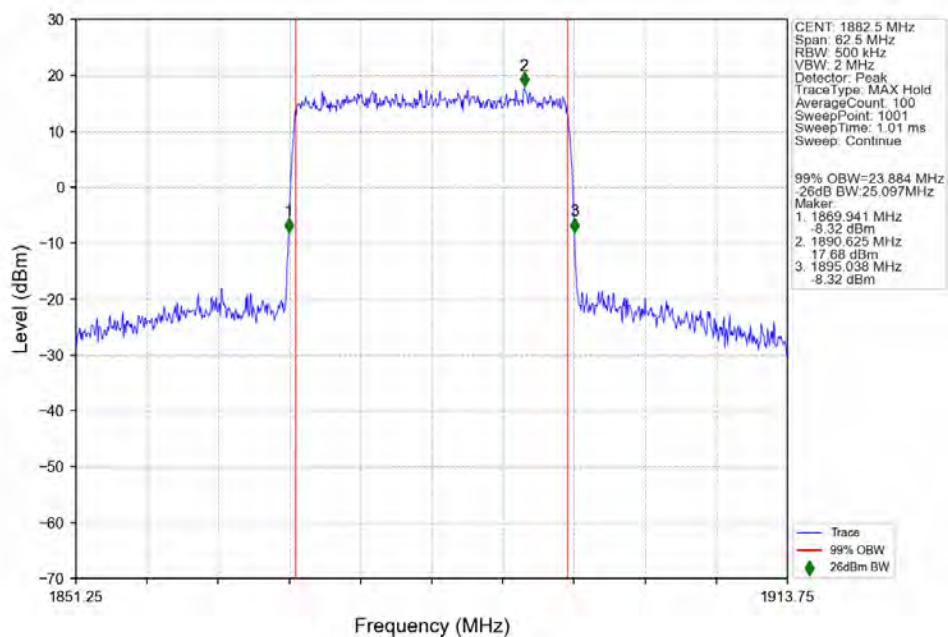
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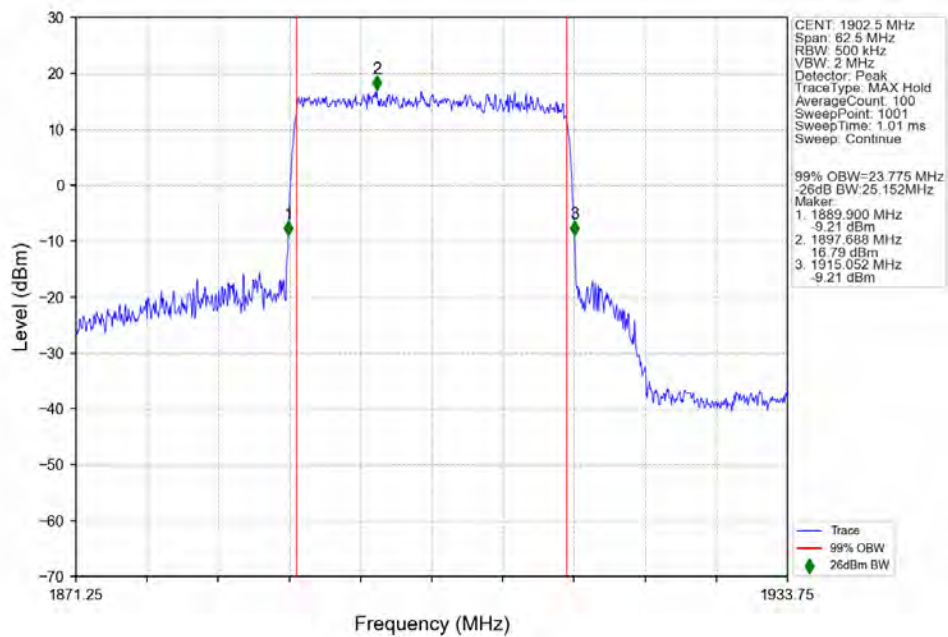
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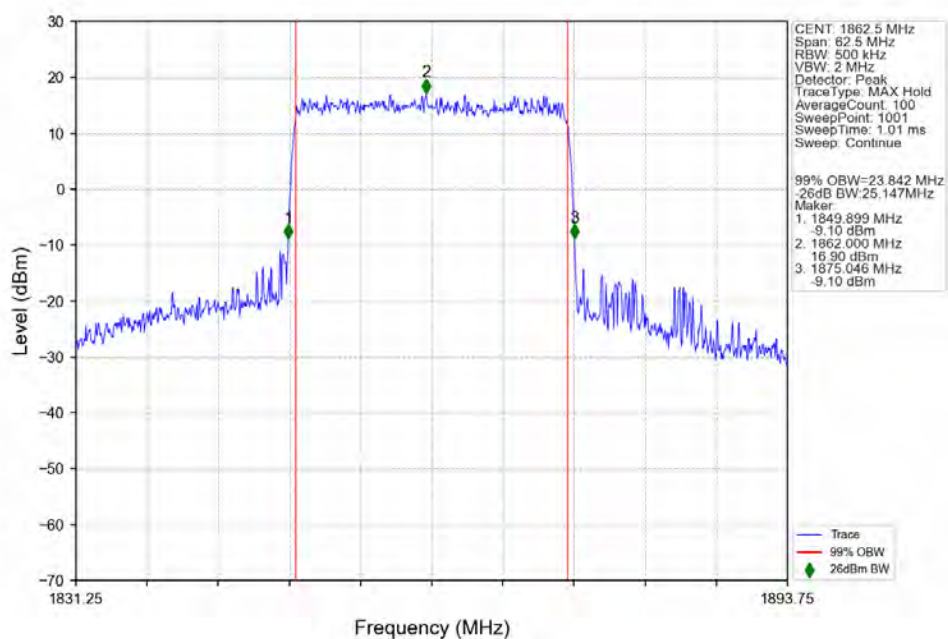
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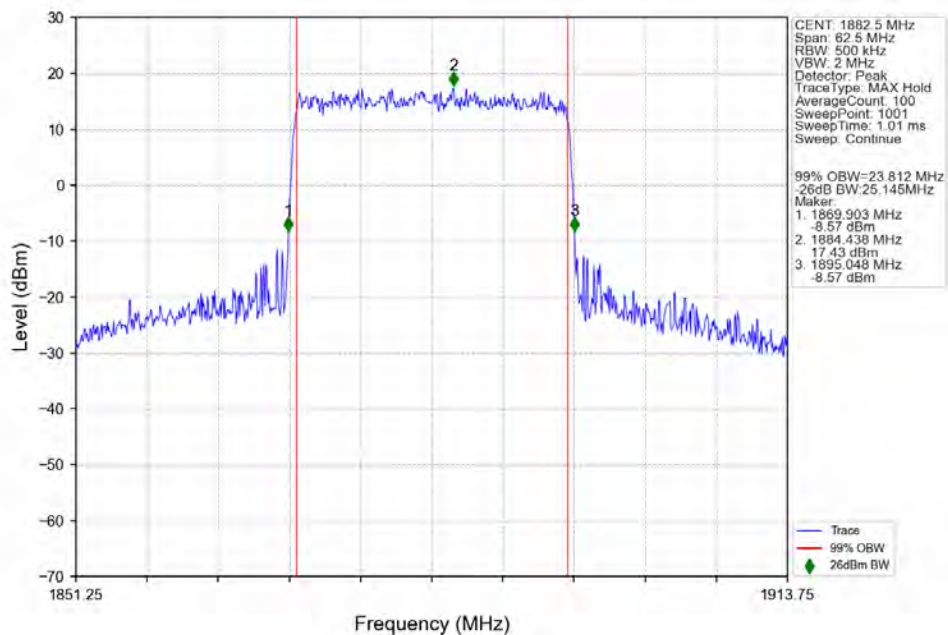
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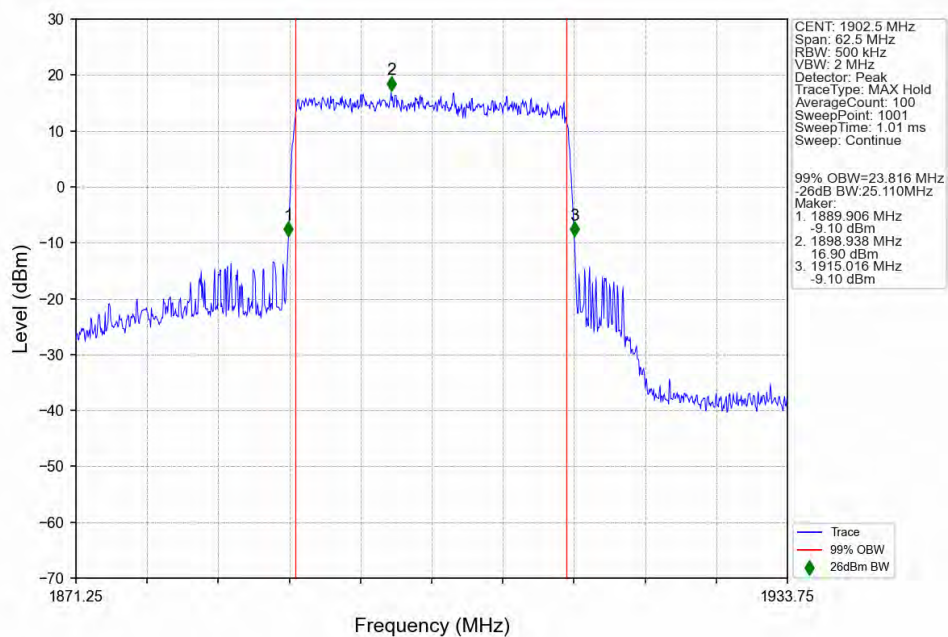
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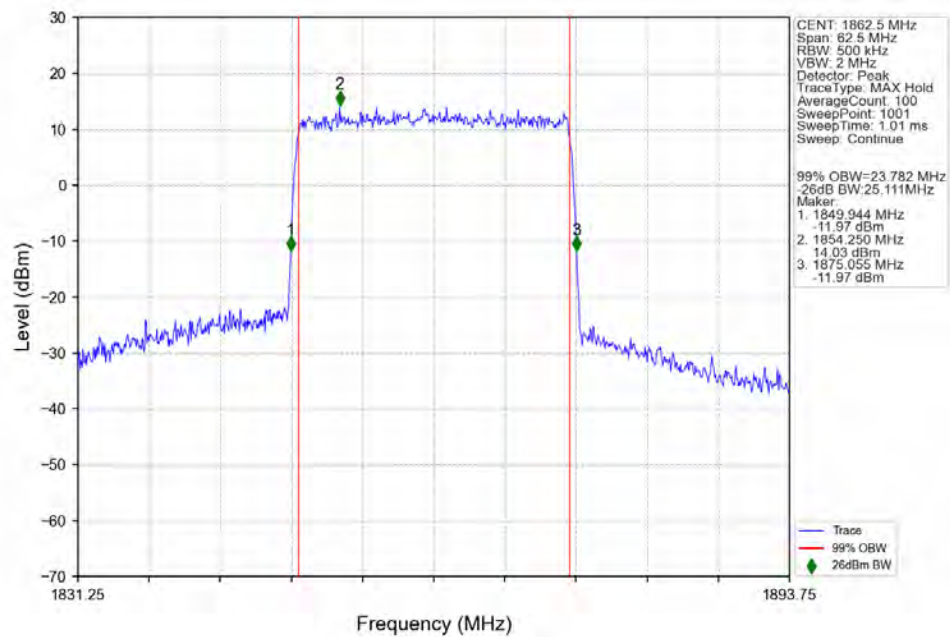
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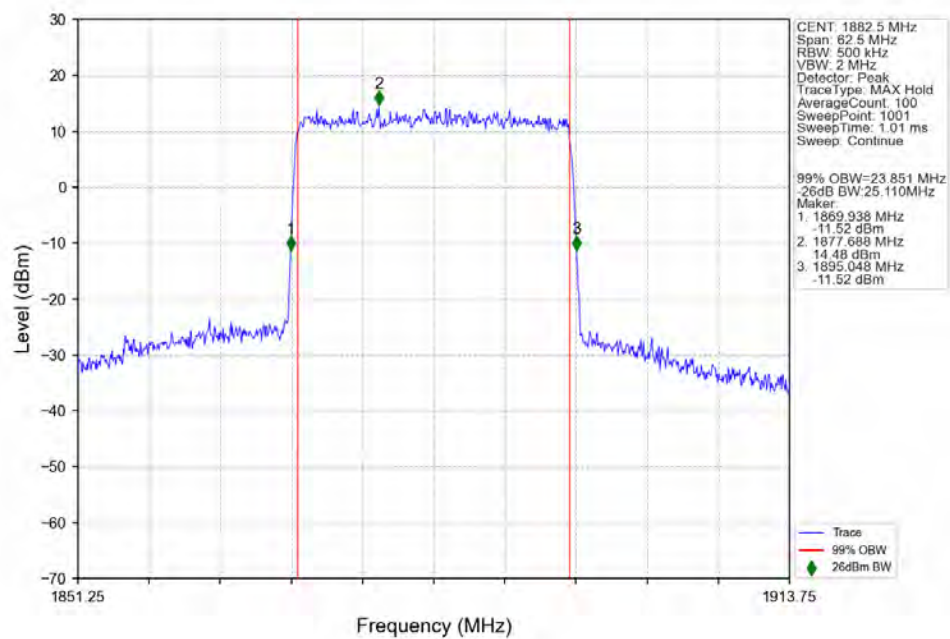
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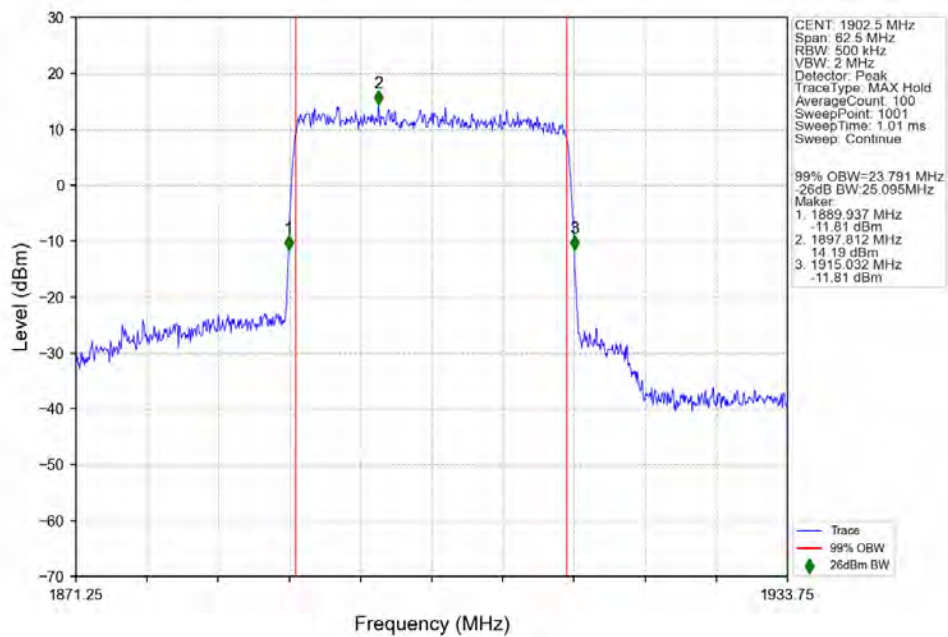
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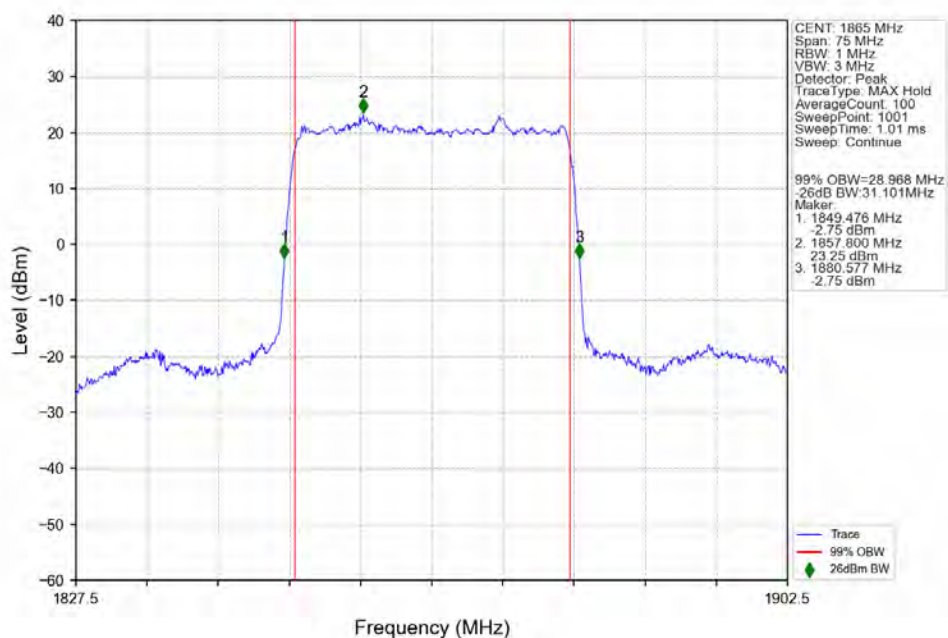


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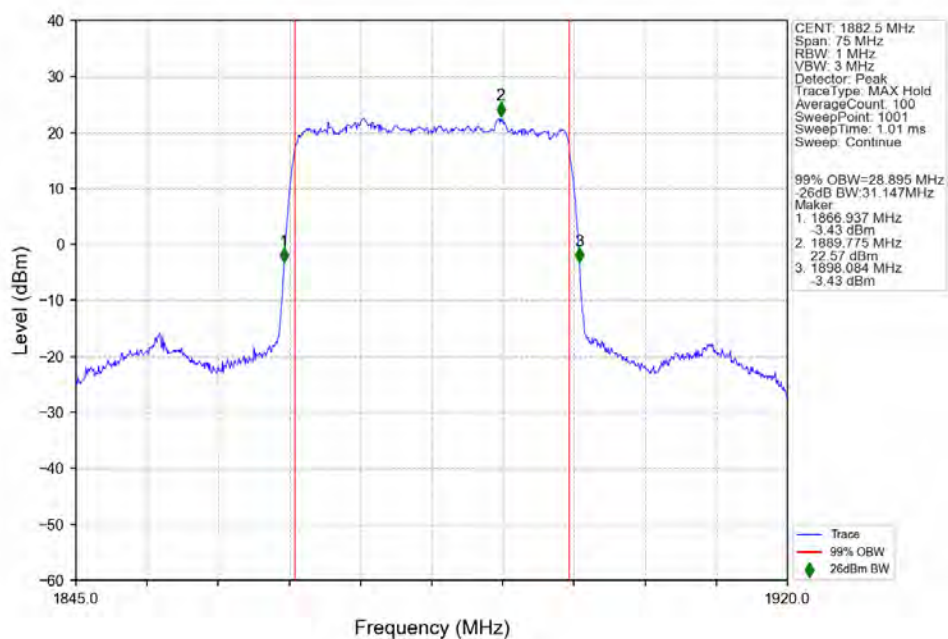


## 3.2.6 15k\_SISO\_30MHz\_NTNV

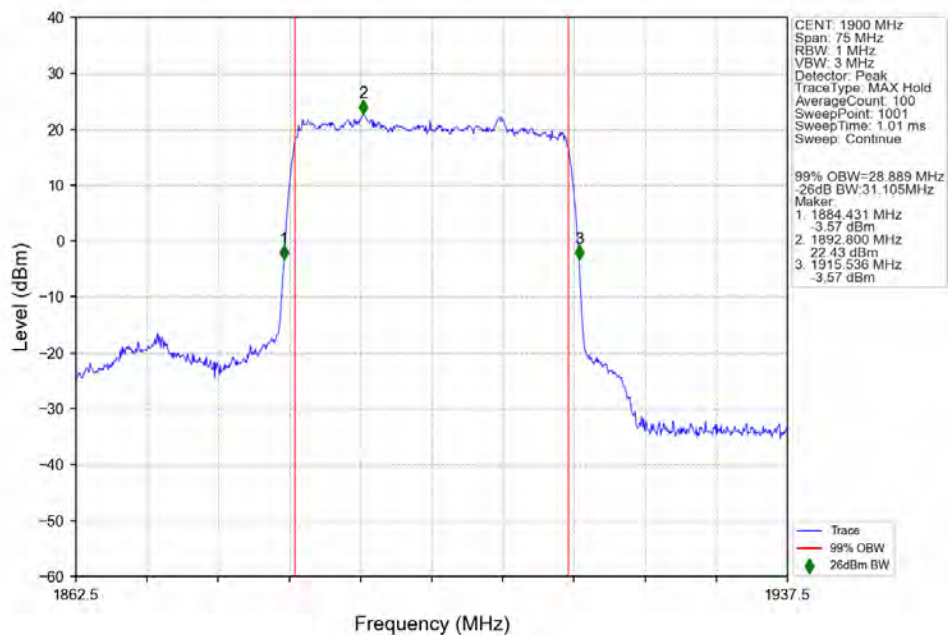
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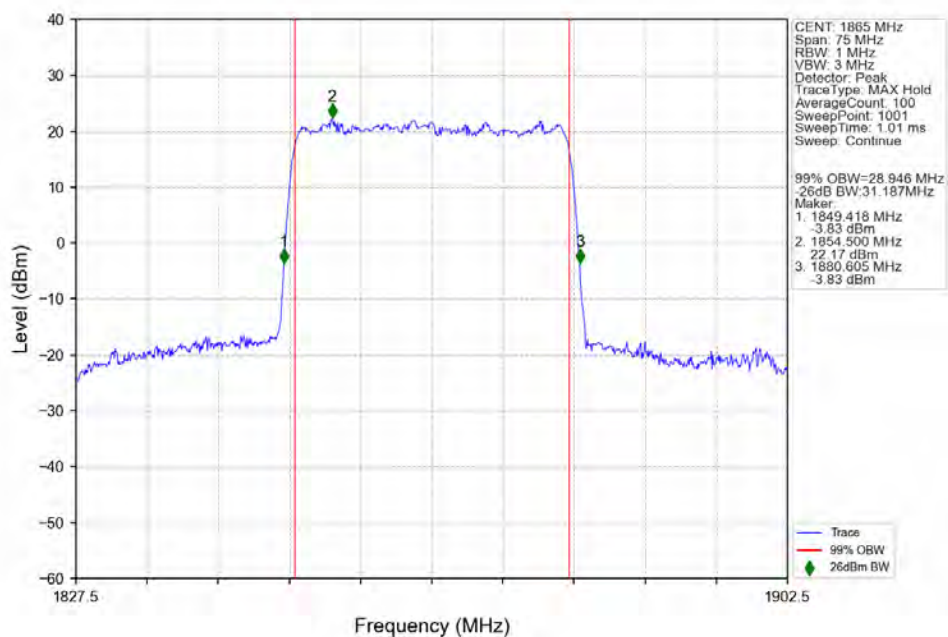
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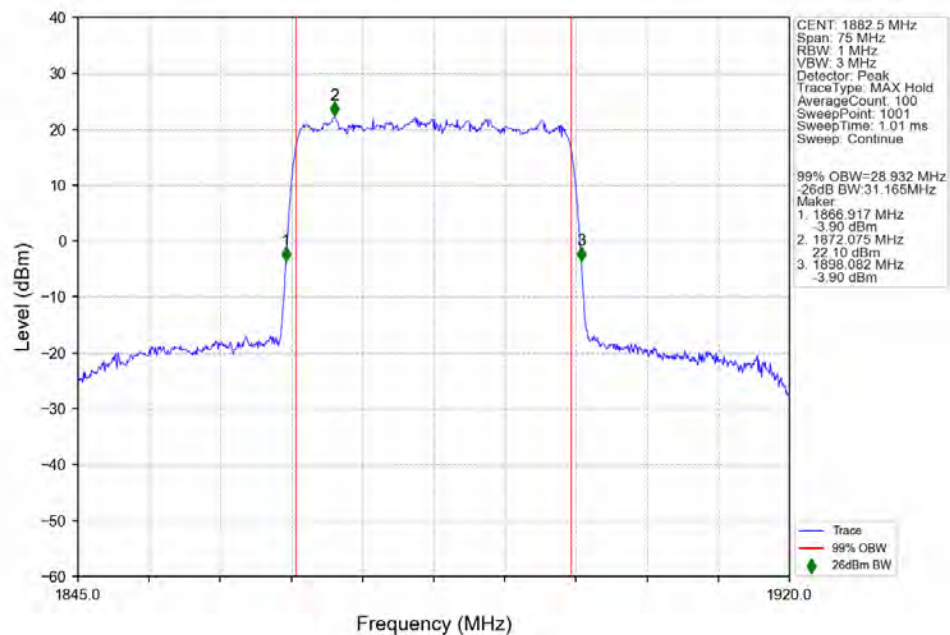
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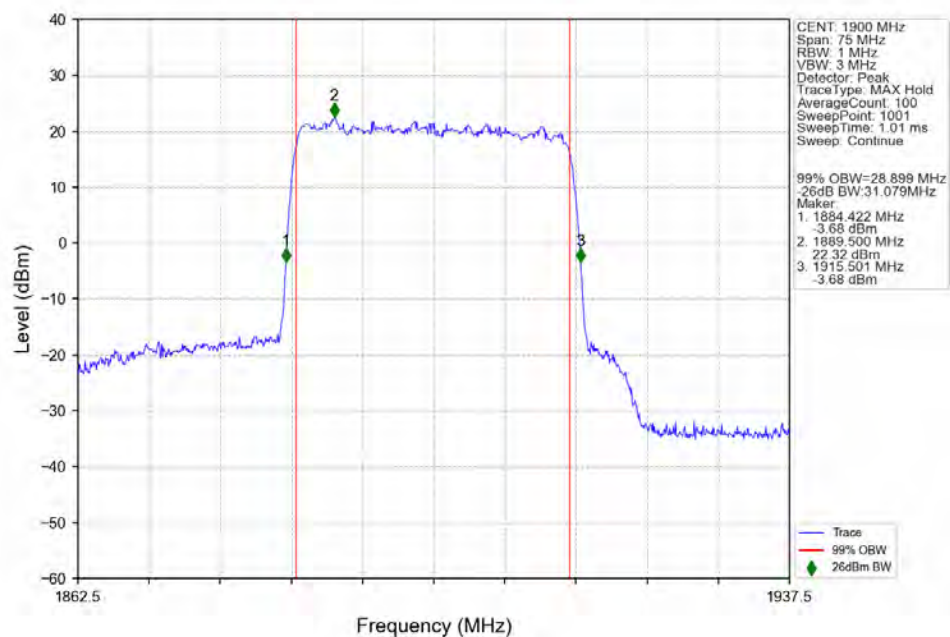
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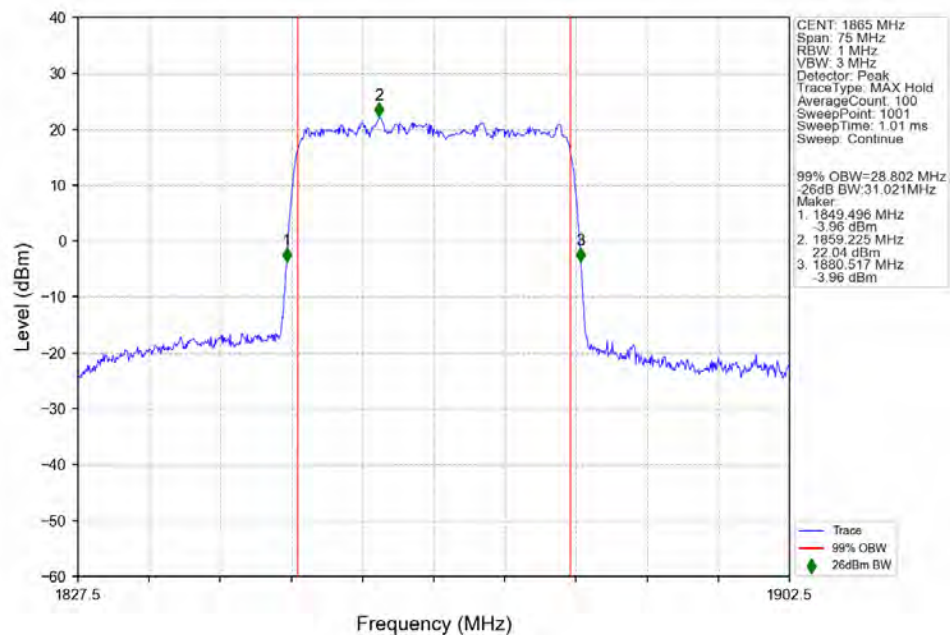
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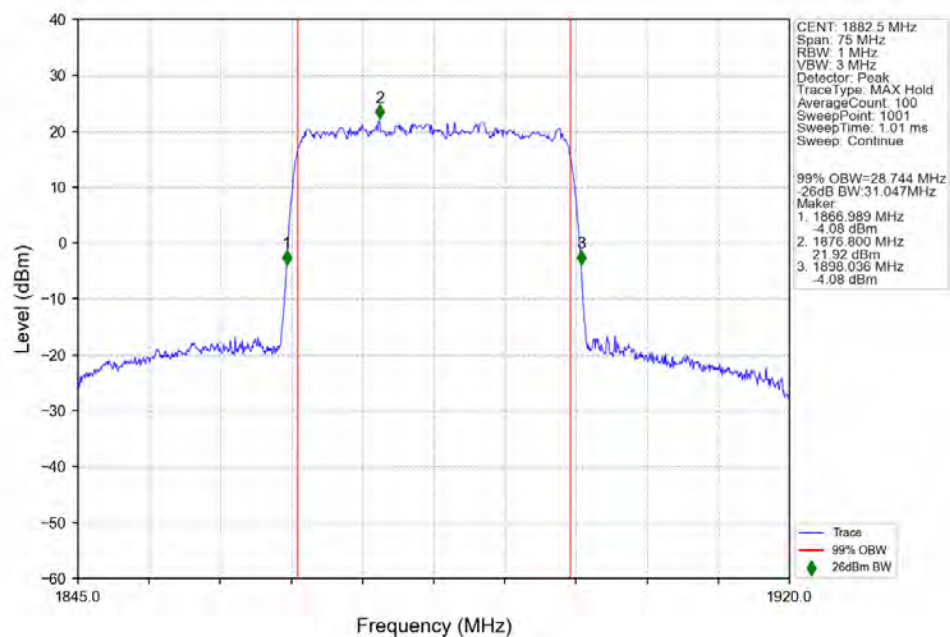
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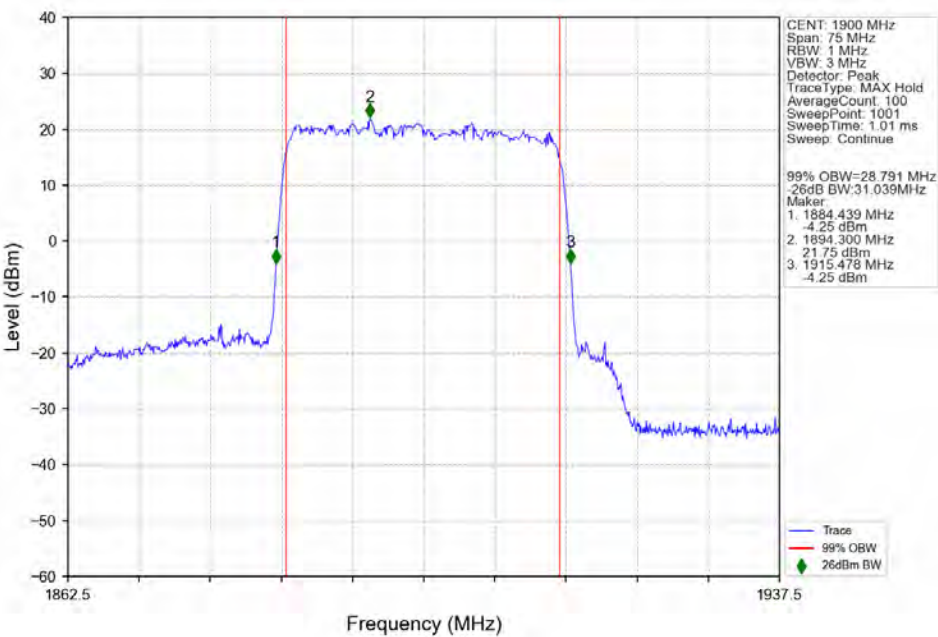
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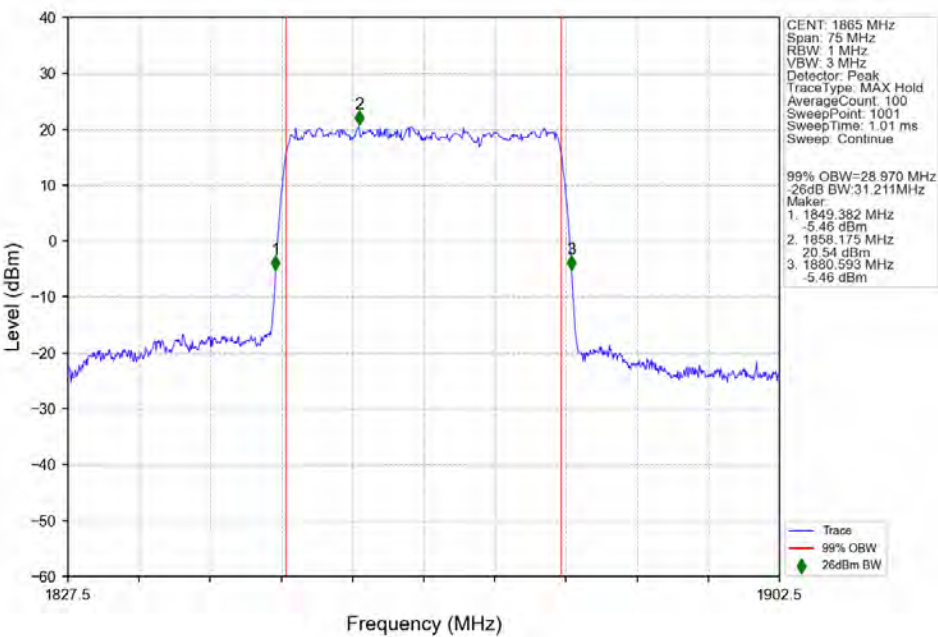
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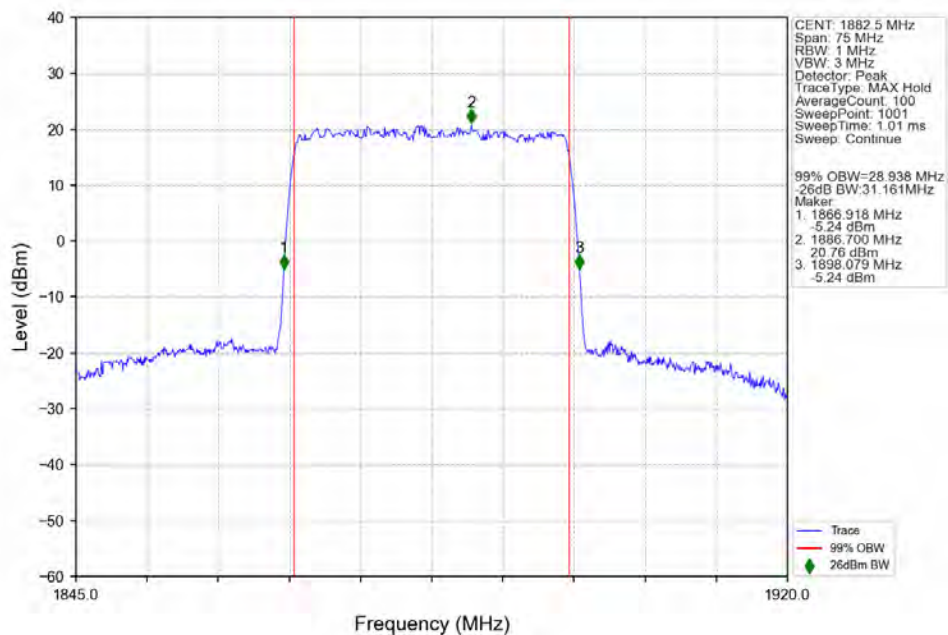
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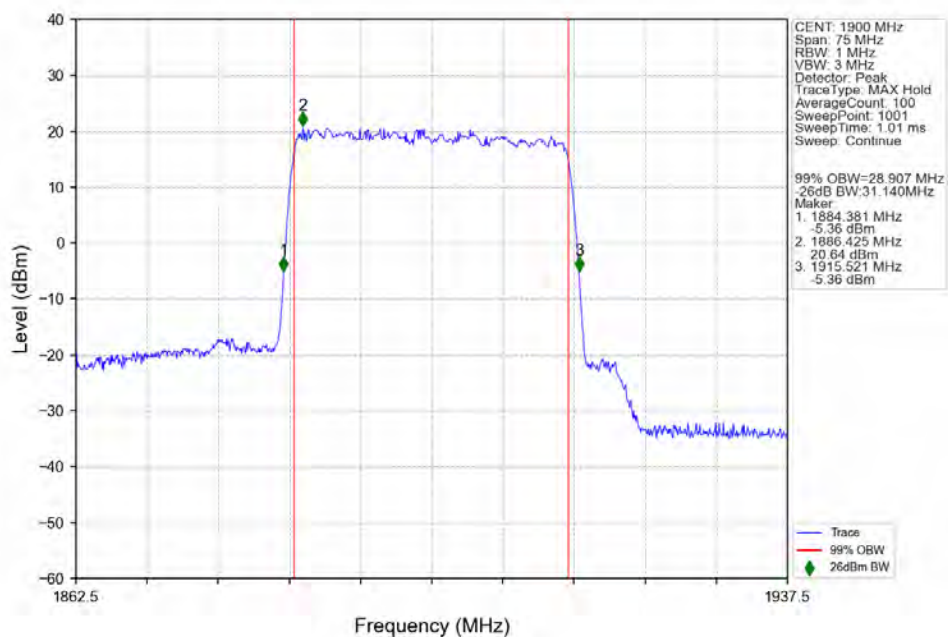
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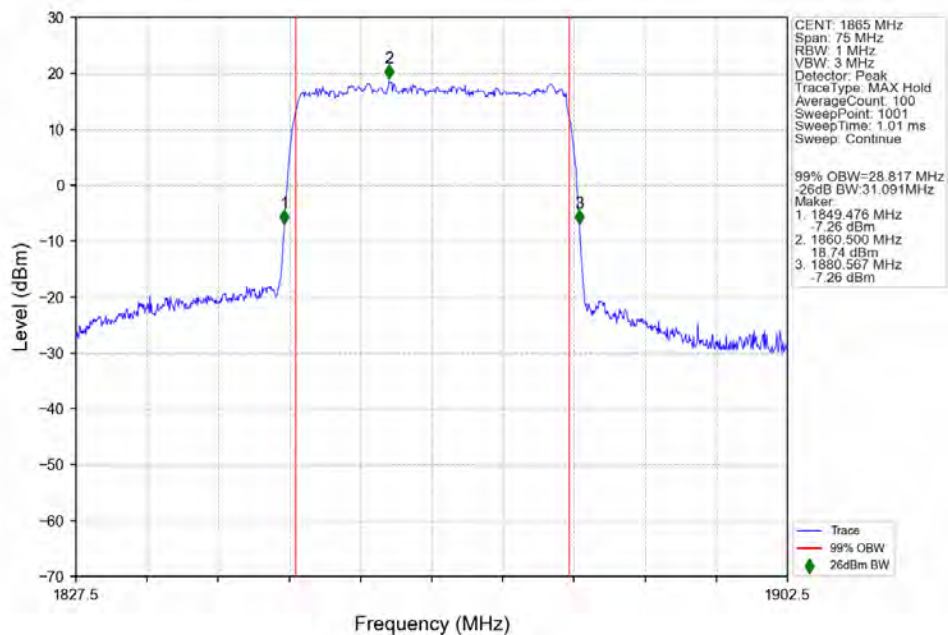
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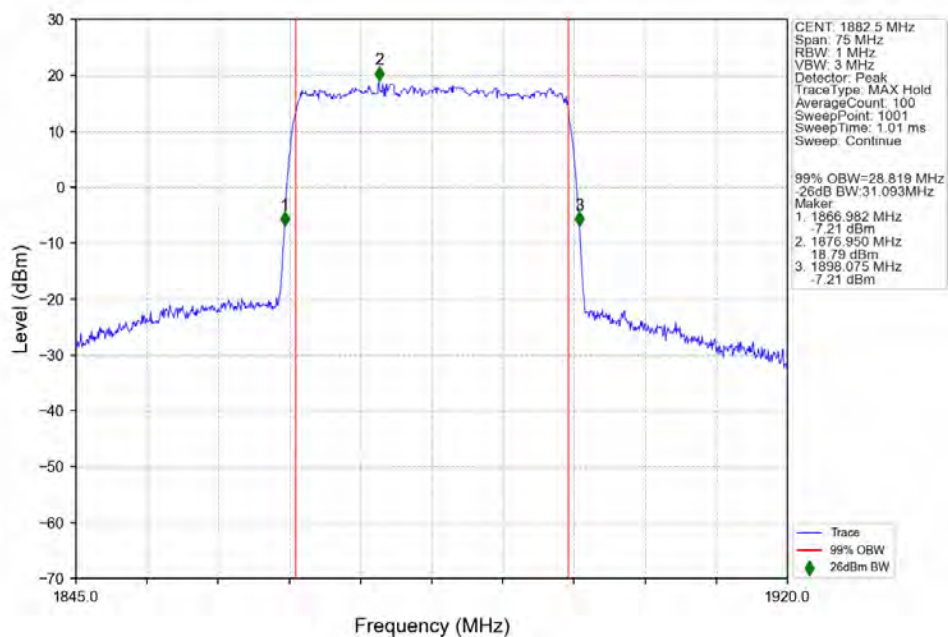
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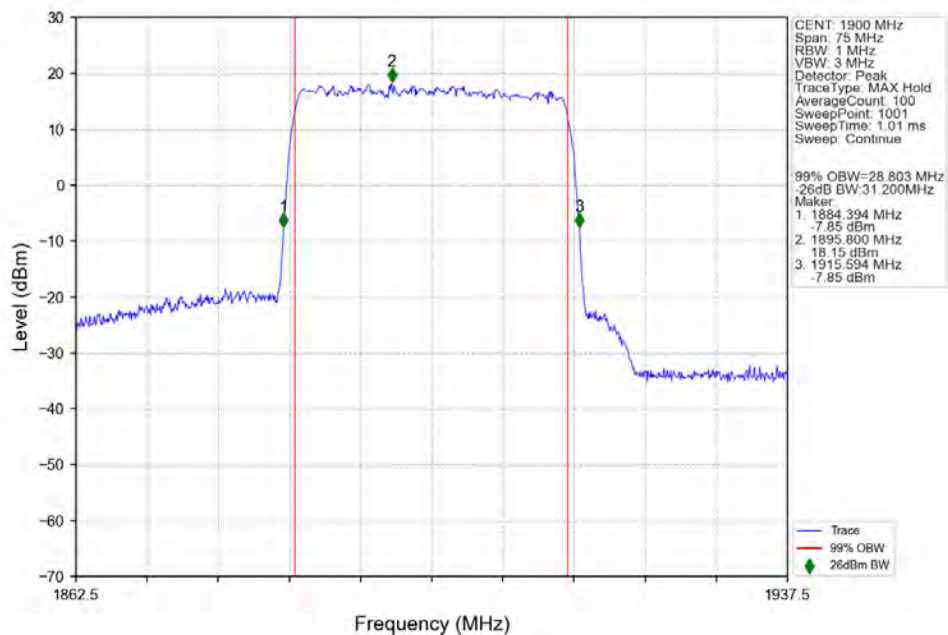
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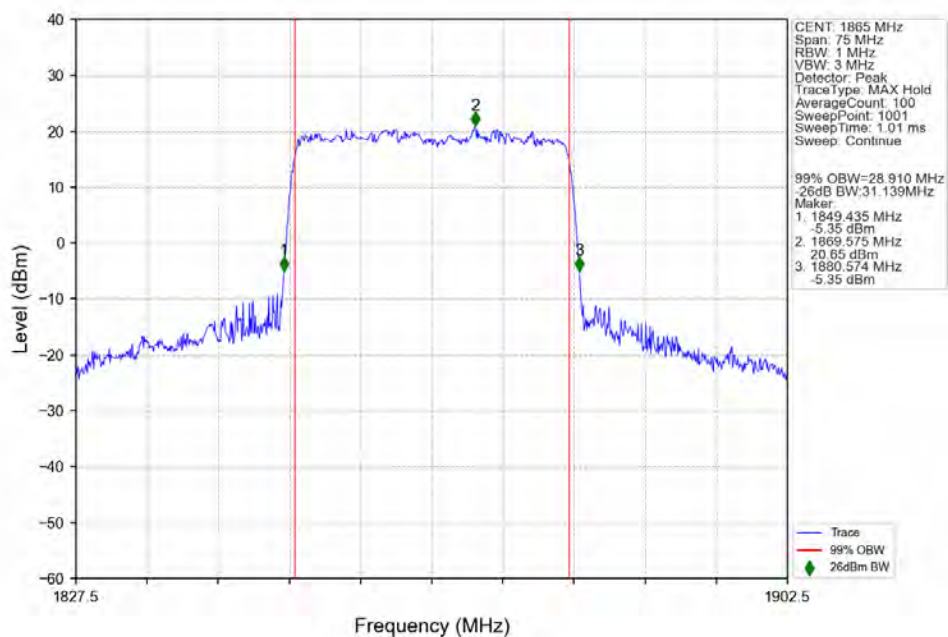
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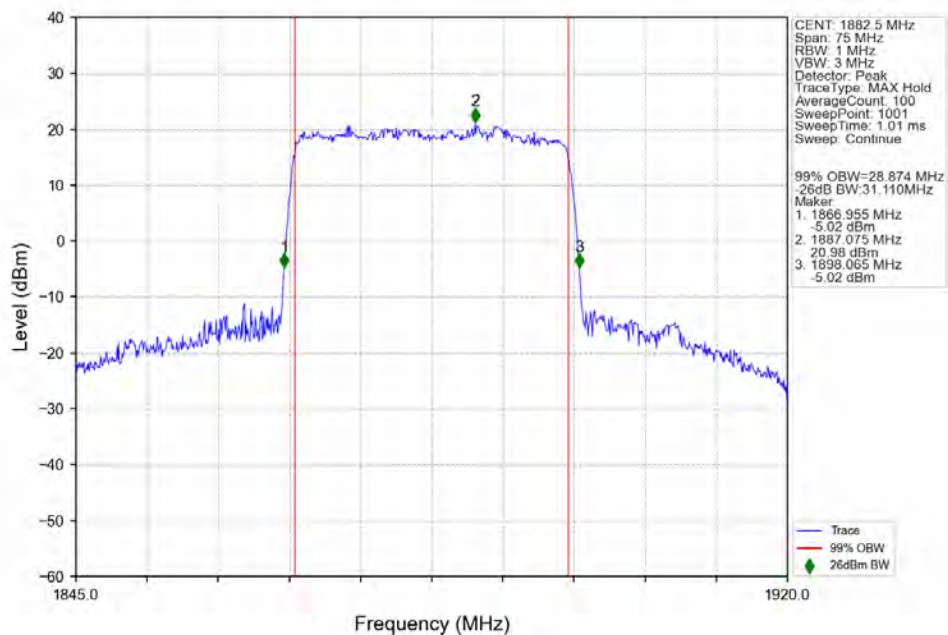
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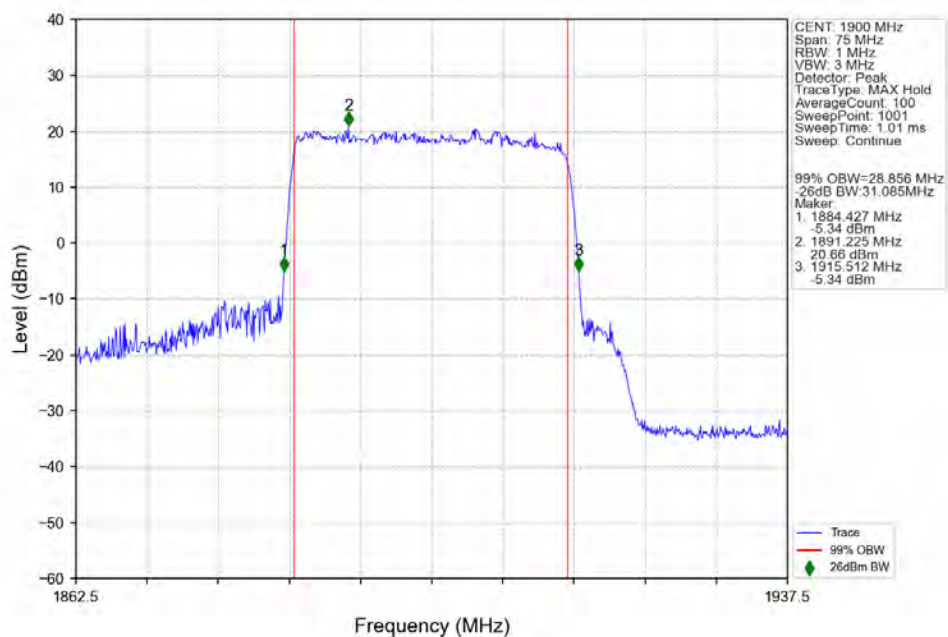
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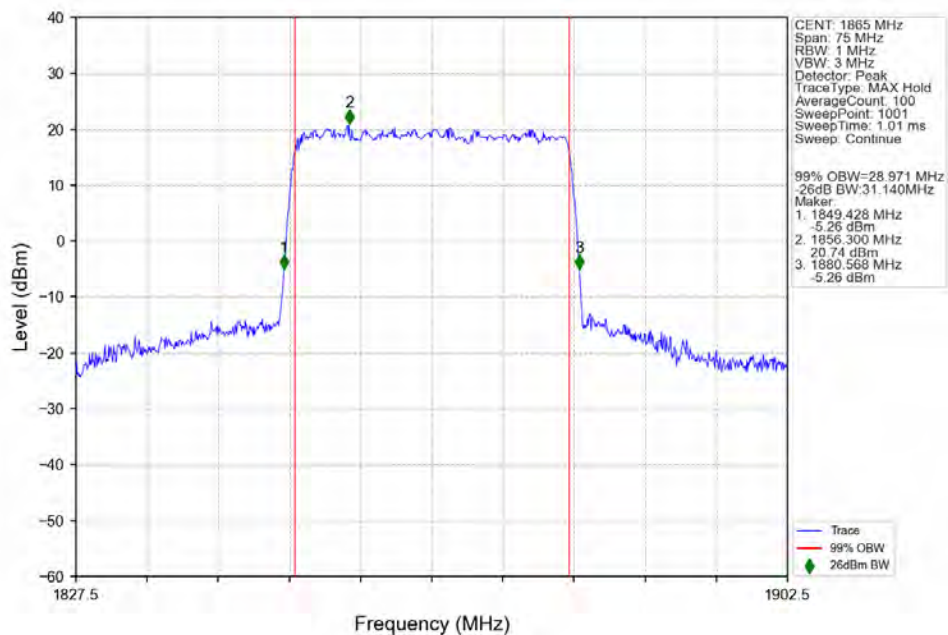
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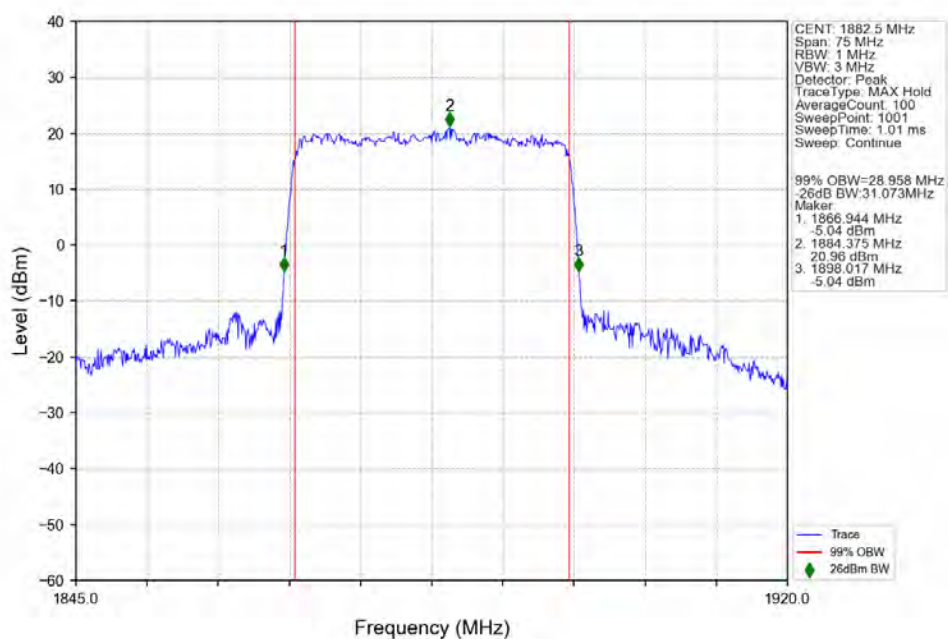
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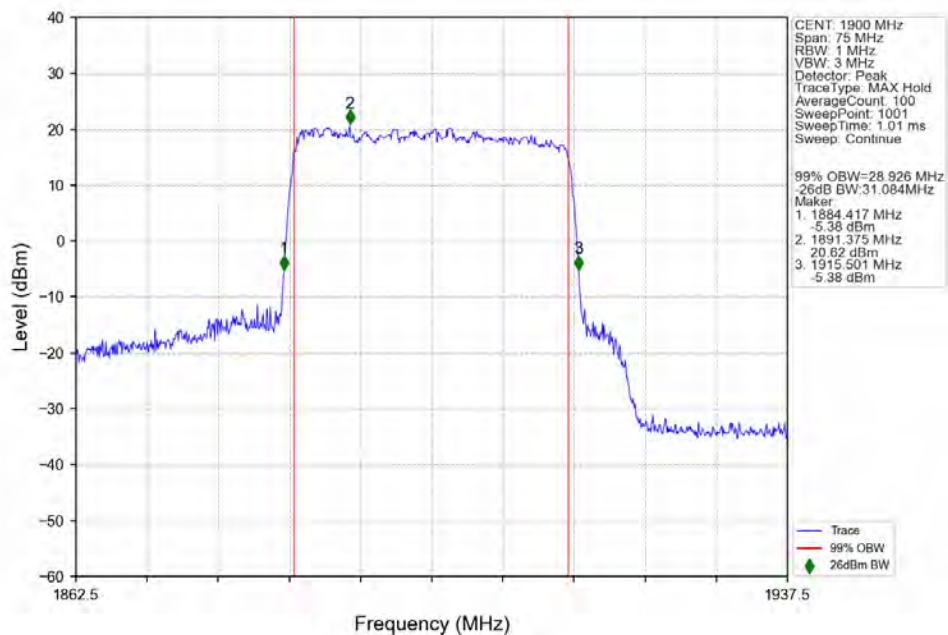
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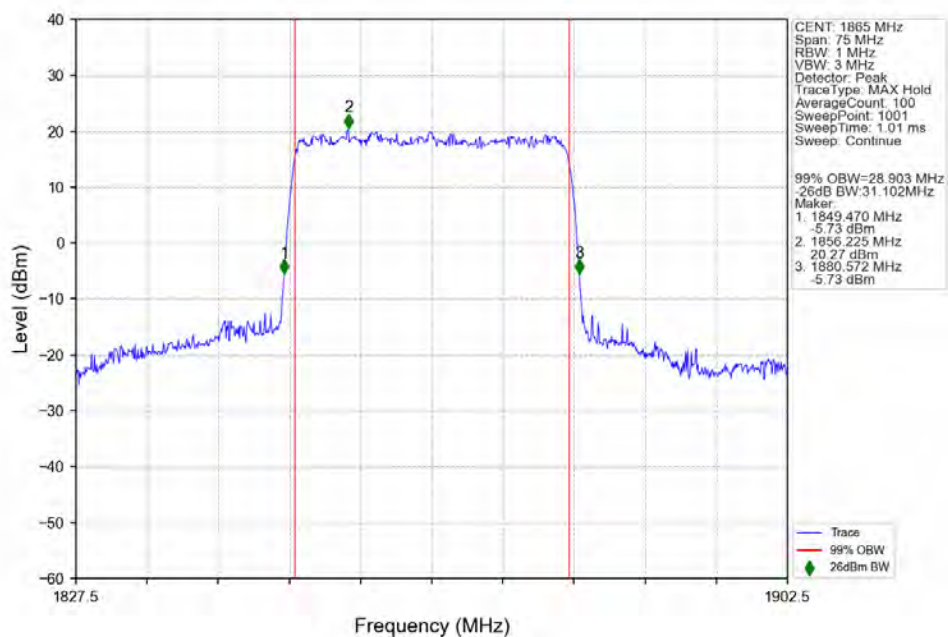
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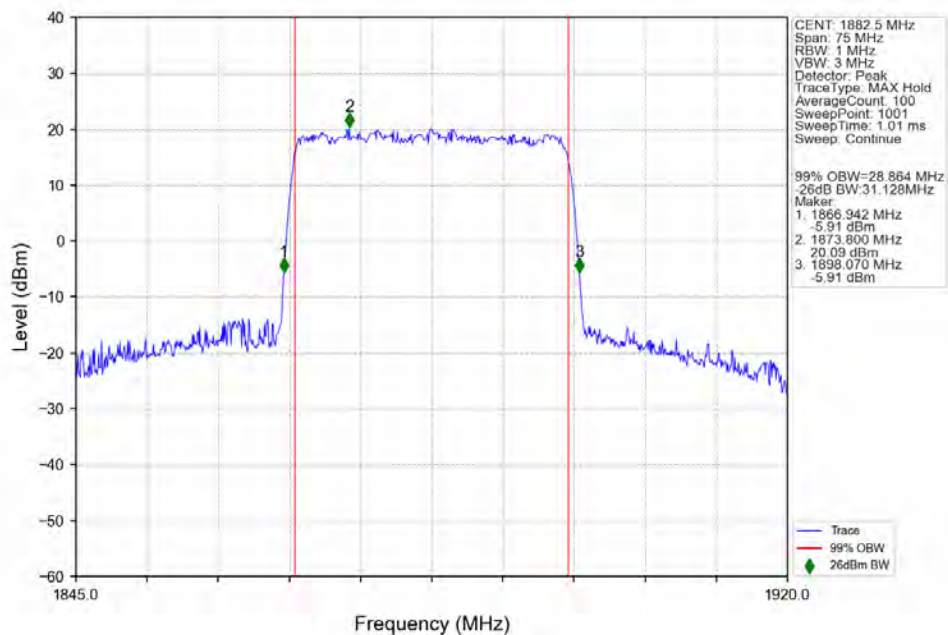
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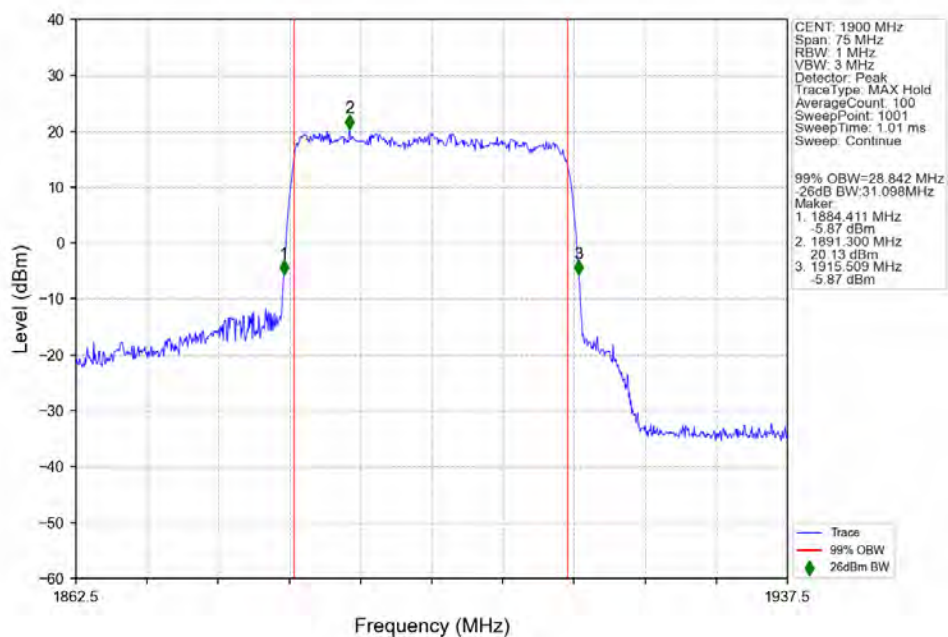
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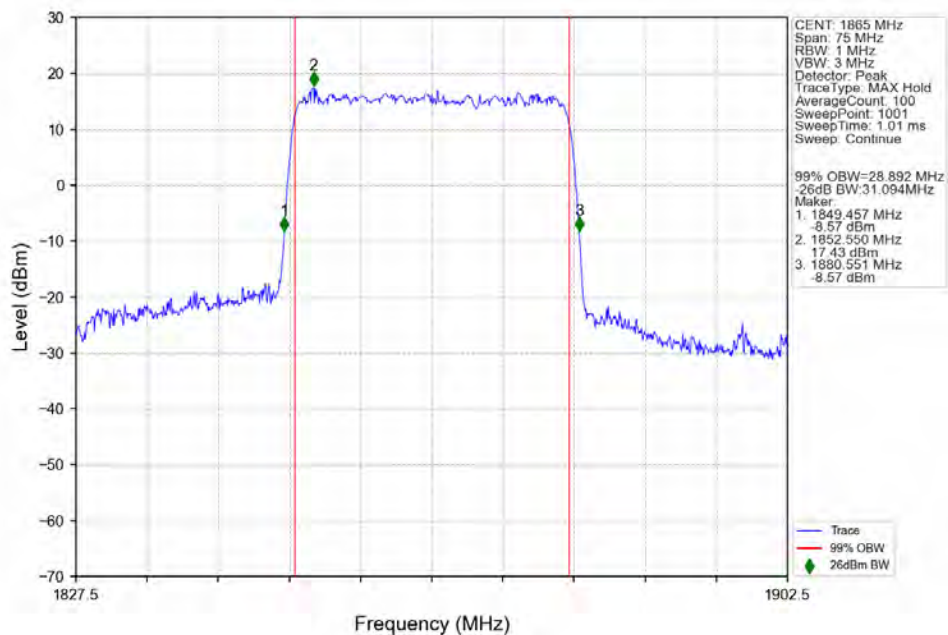
n25 15kHz SISO NTN 30MHz CP-OFDM 64 QAM 1882.5MHz Outer Full Ant1



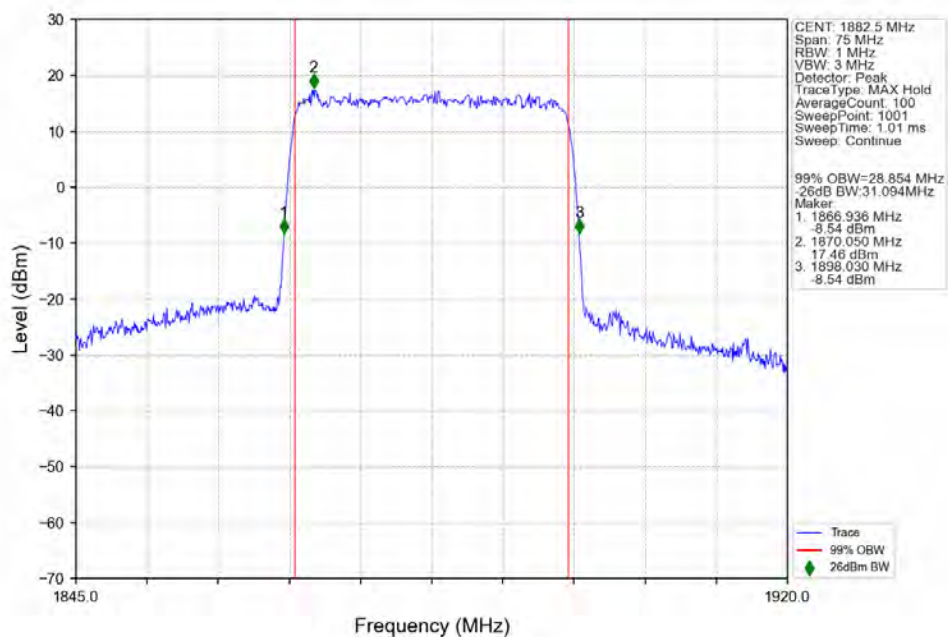
n25 15kHz SISO NTN 30MHz CP-OFDM 64 QAM 1900MHz Outer Full Ant1



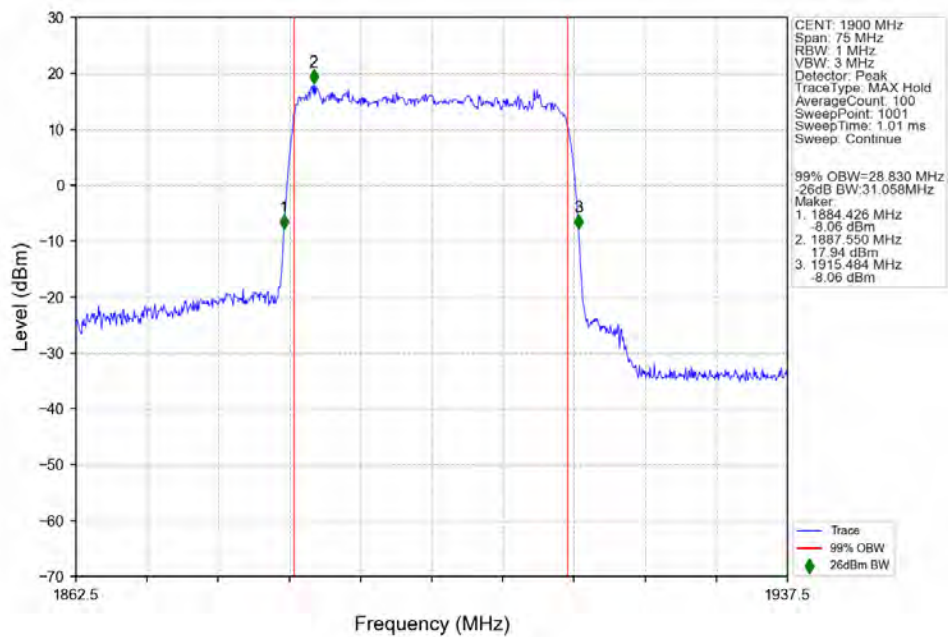
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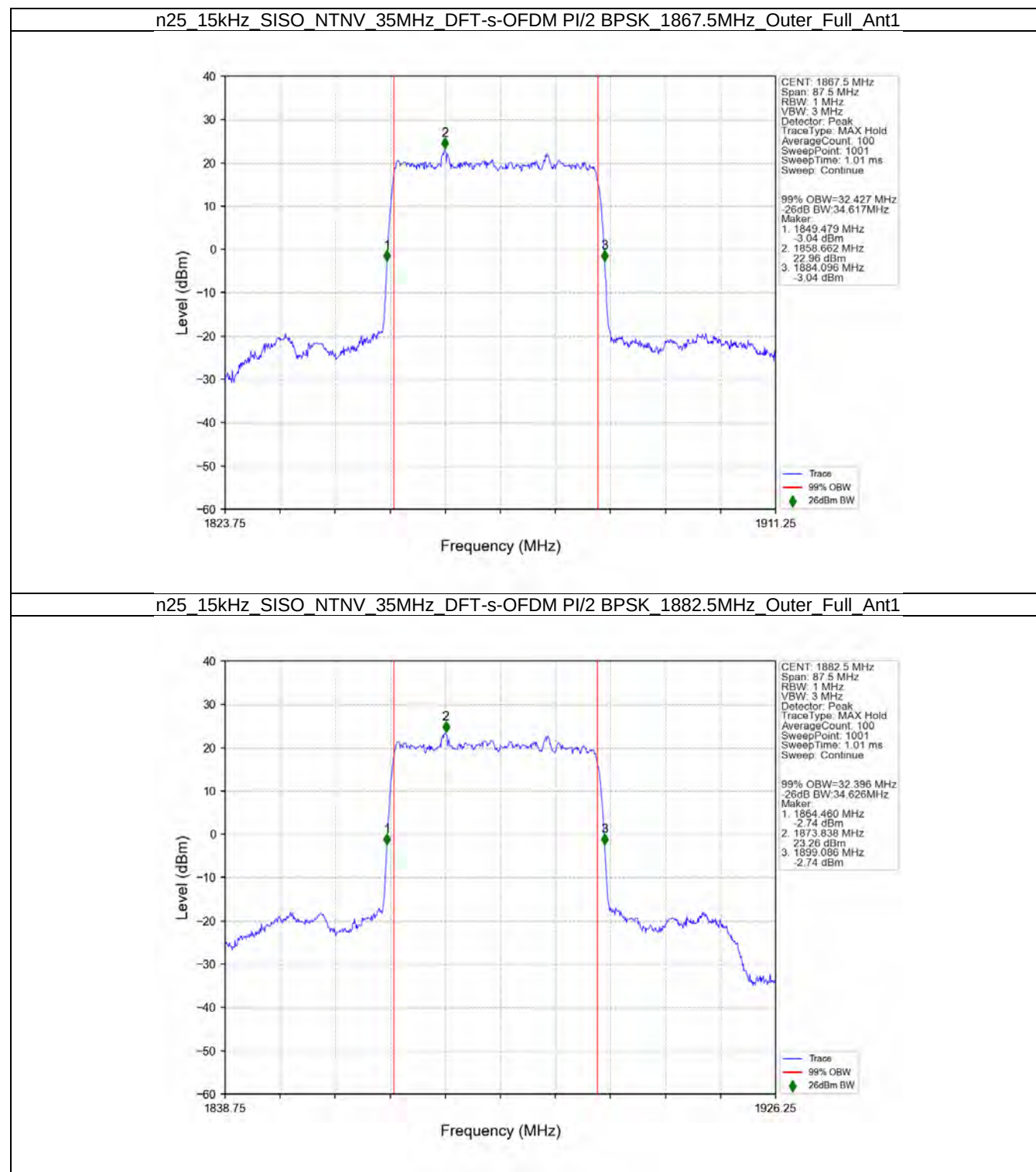
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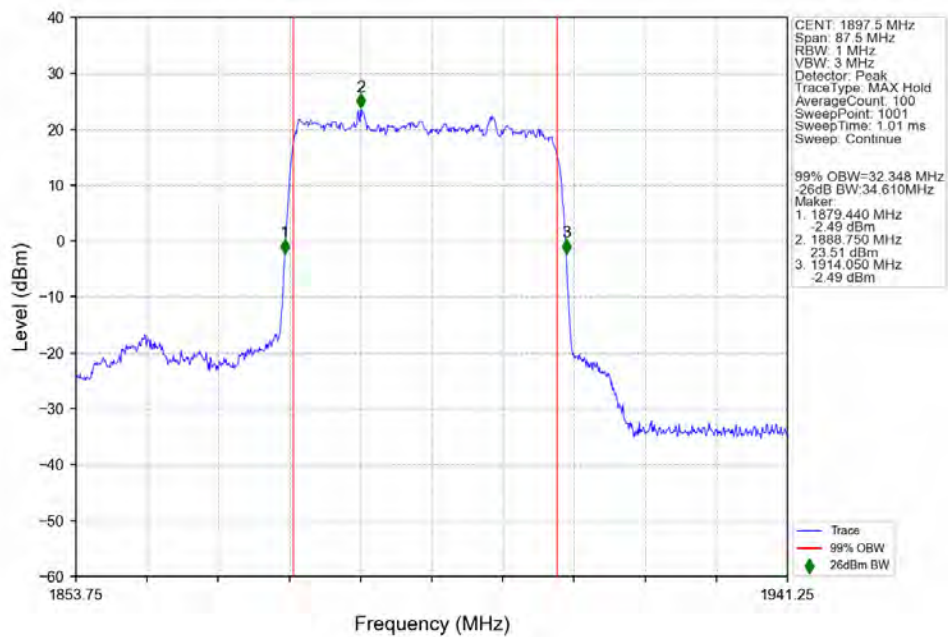
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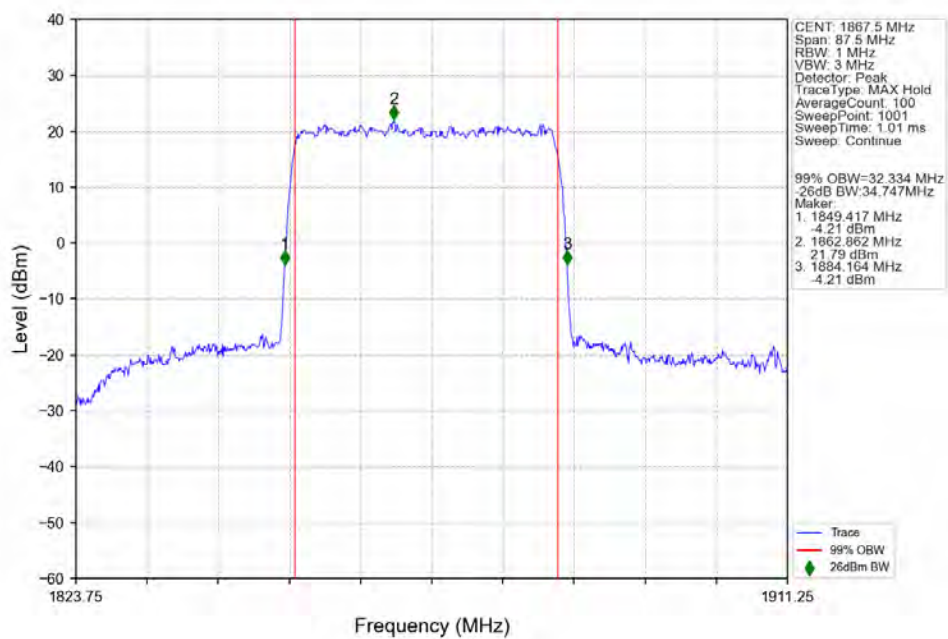
## 3.2.7 15k\_SISO\_35MHz\_NTNV



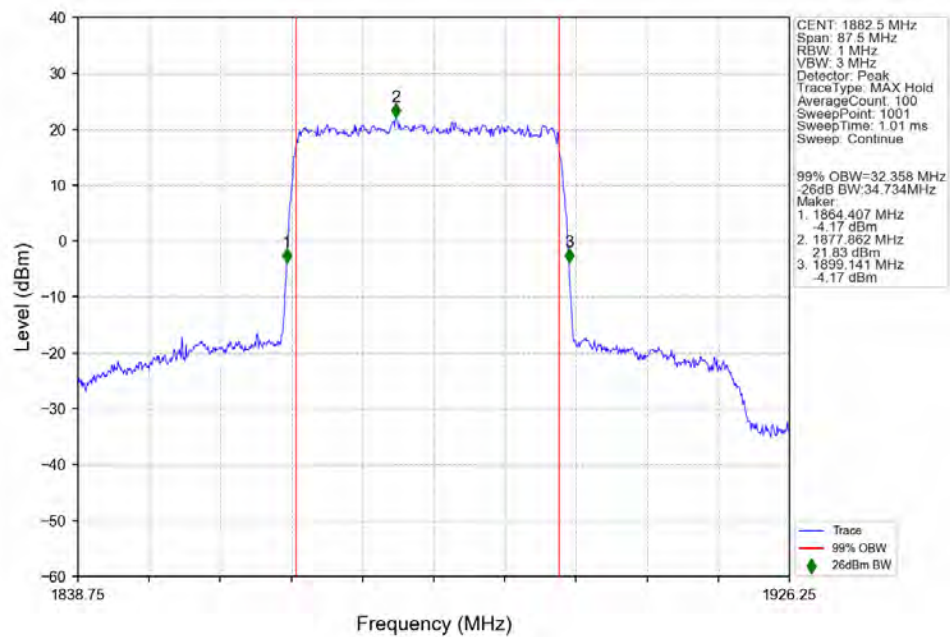
n25 15kHz SISO NTN 35MHz DFT-s-OFDM PI/2 BPSK 1897.5MHz Outer Full Ant1



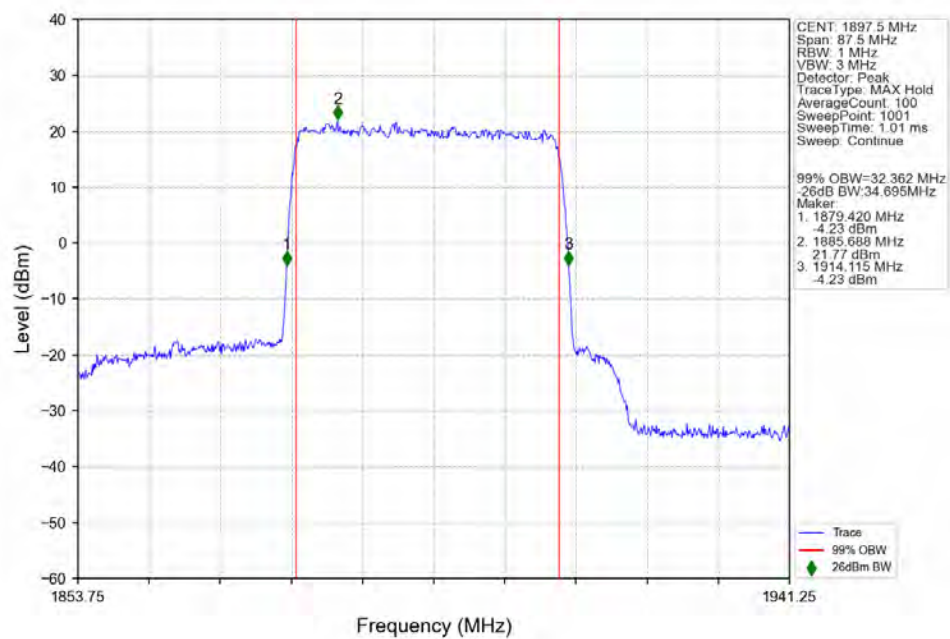
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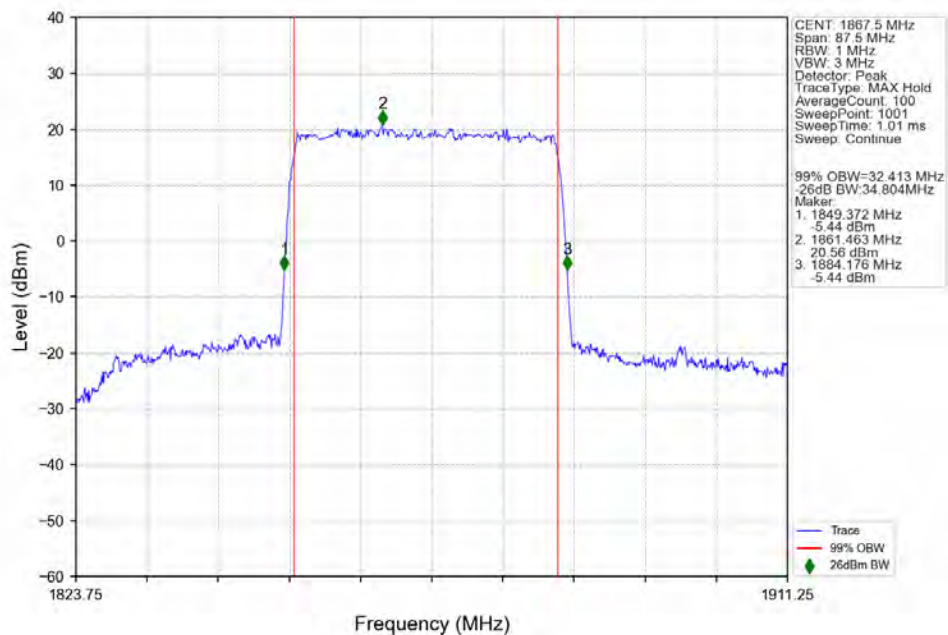
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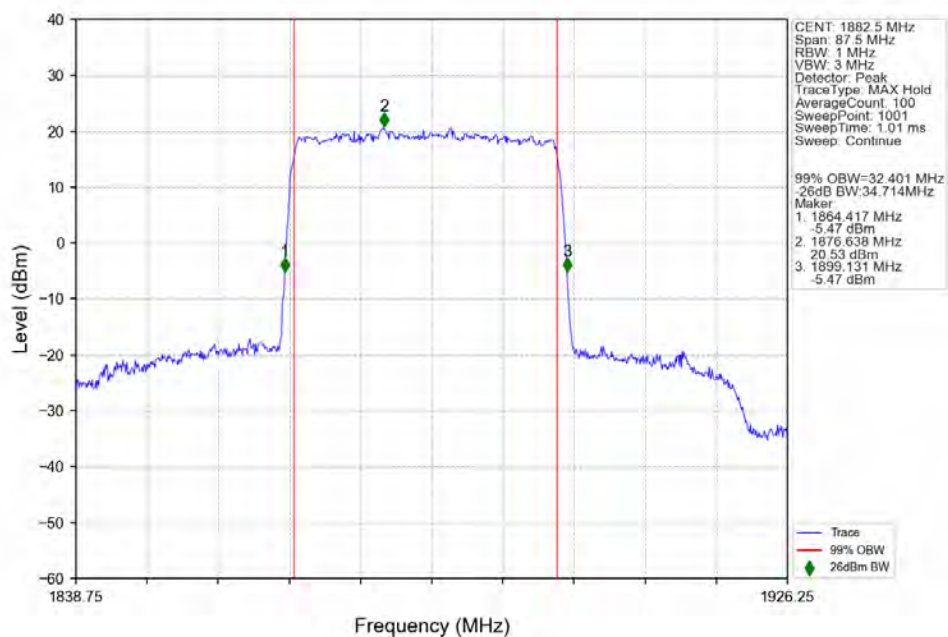
n25 15kHz SISO NTN 35MHz DFT-s-OFDM QPSK 1897.5MHz Outer Full Ant1



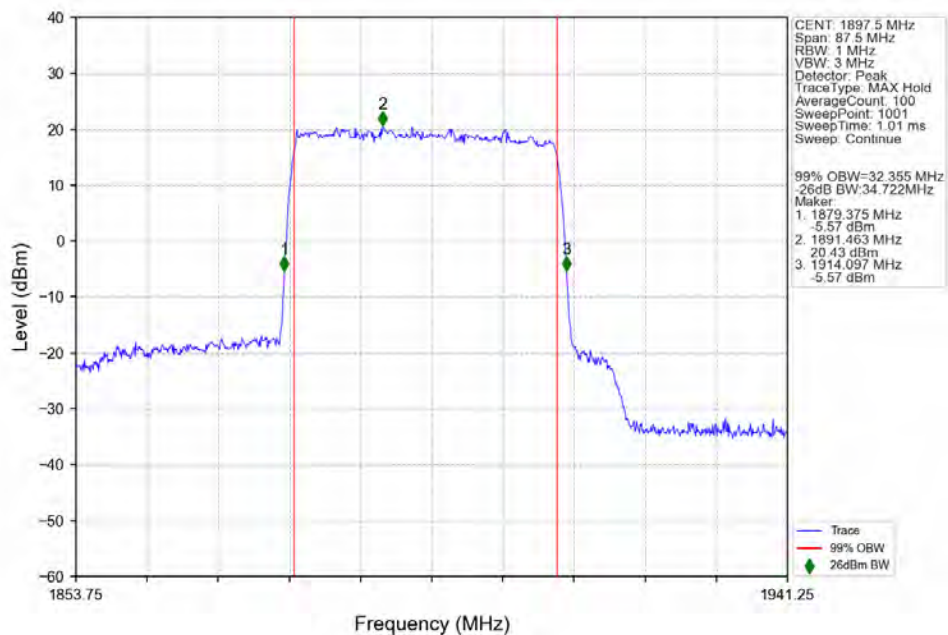
n25 15kHz SISO NTN 35MHz DFT-s-OFDM 16 QAM 1867.5MHz Outer Full Ant1



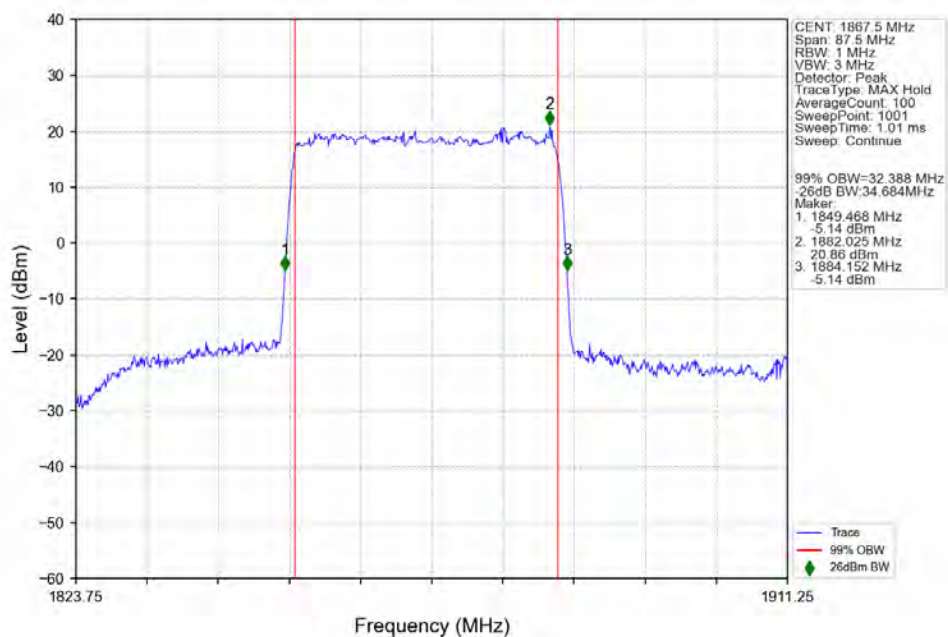
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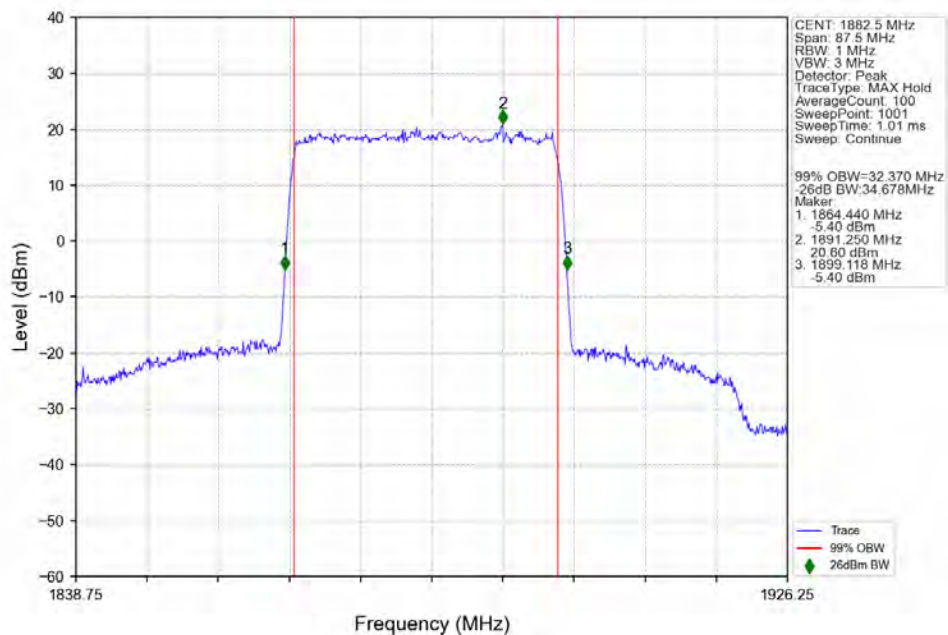
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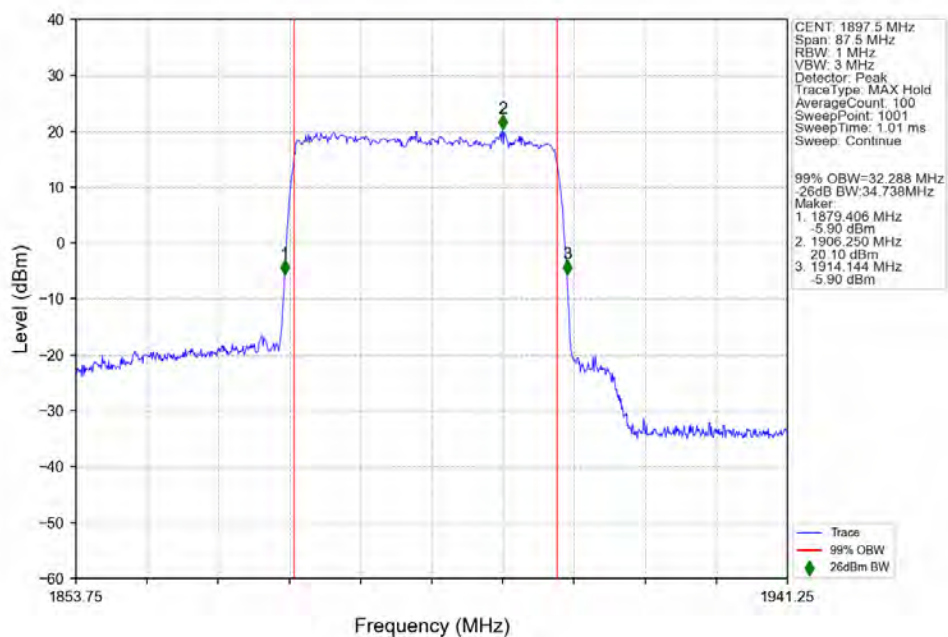
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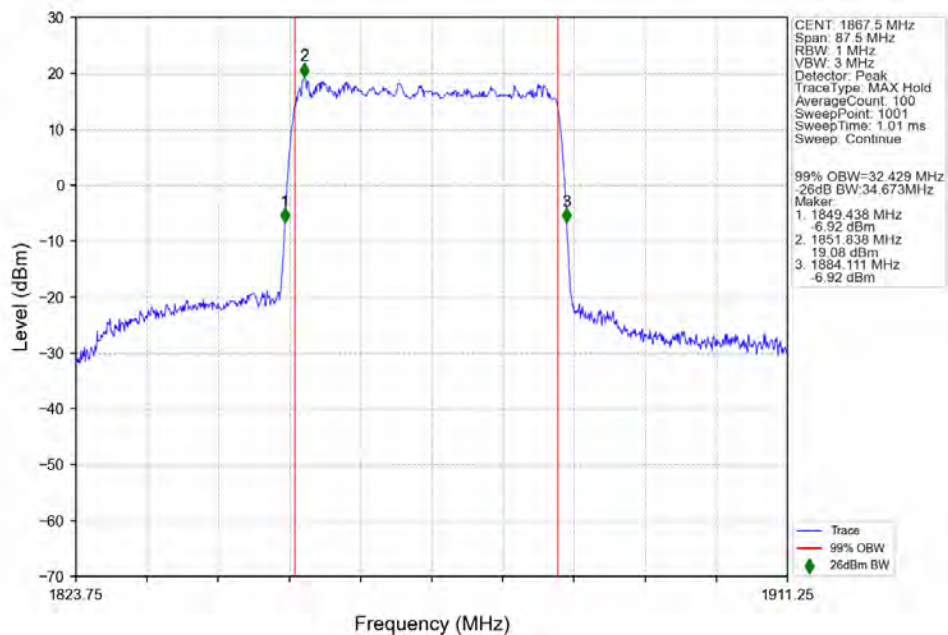
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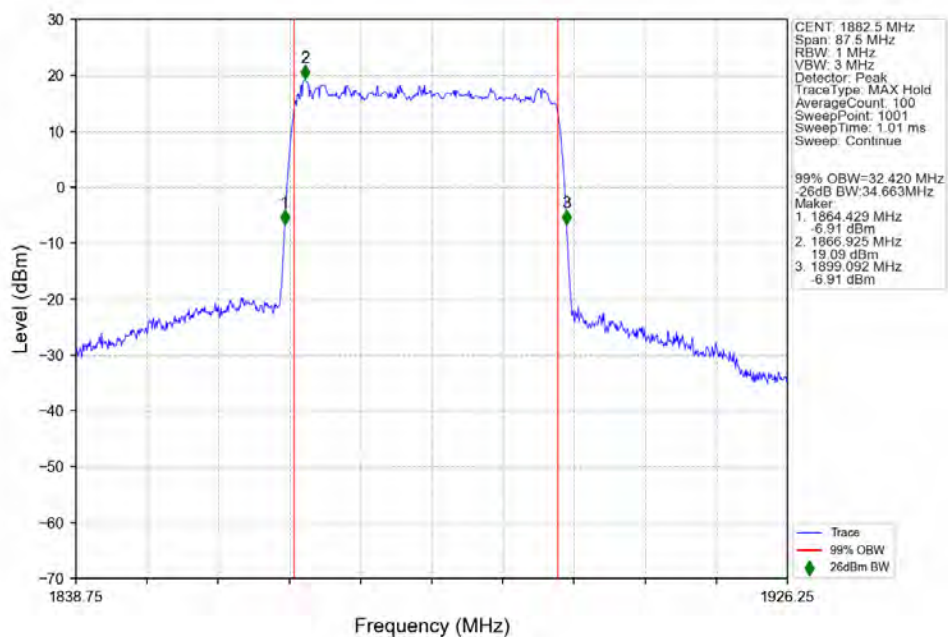
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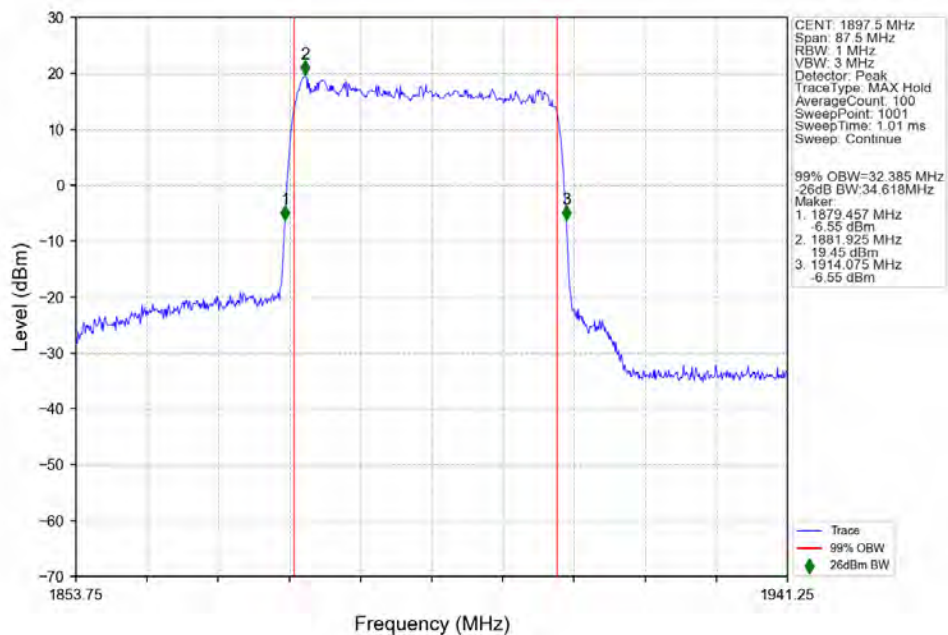
n25 15kHz SISO NTN 35MHz DFT-s-OFDM 256 QAM 1867.5MHz Outer Full Ant1



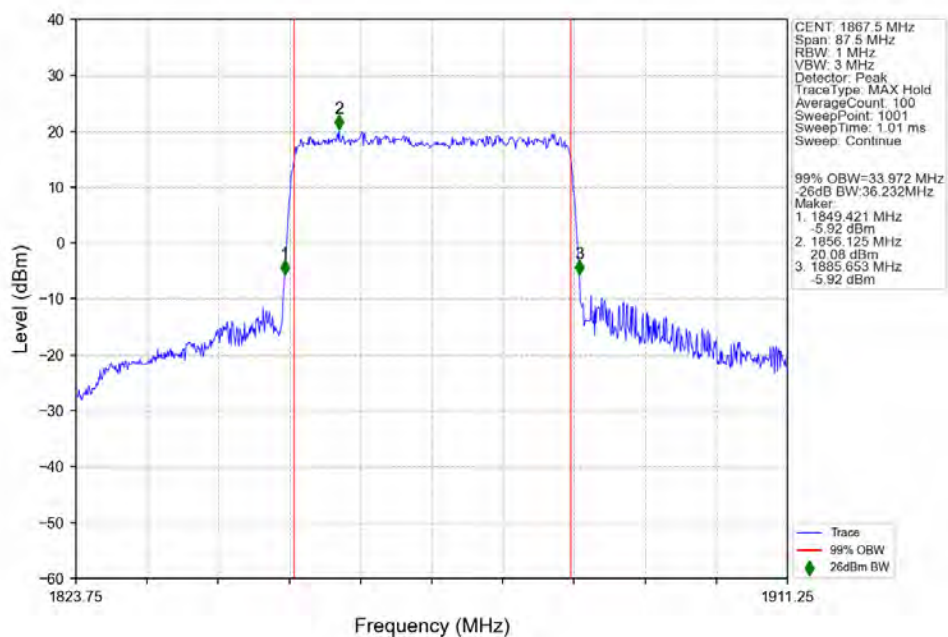
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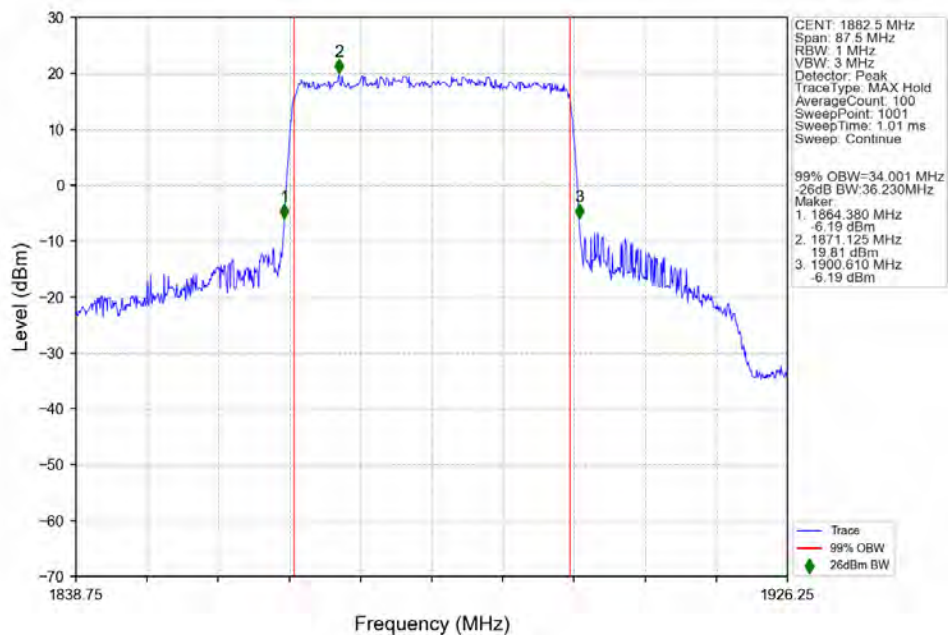
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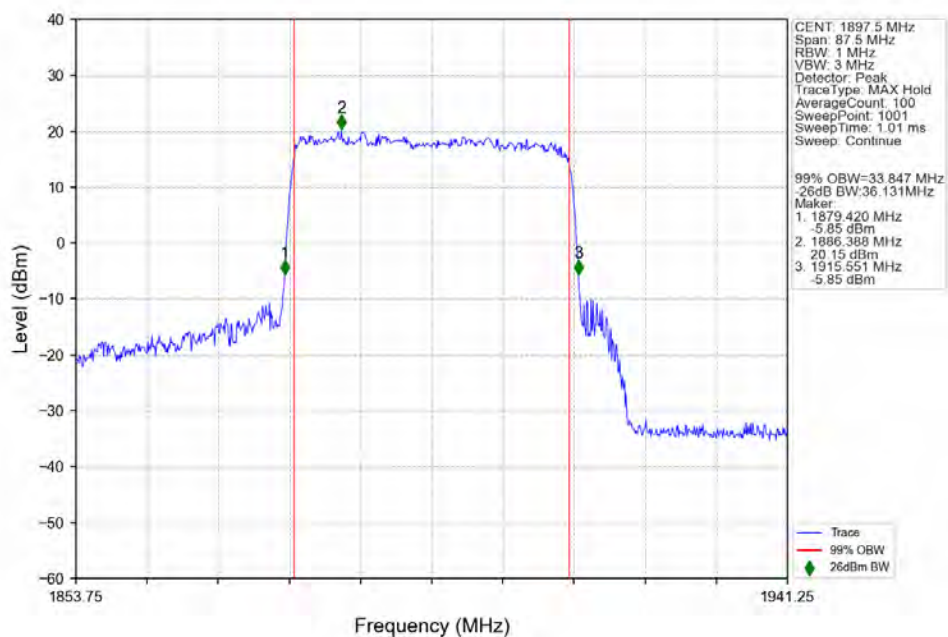
n25 15kHz SISO NTN 35MHz CP-OFDM QPSK 1867.5MHz Outer Full Ant1



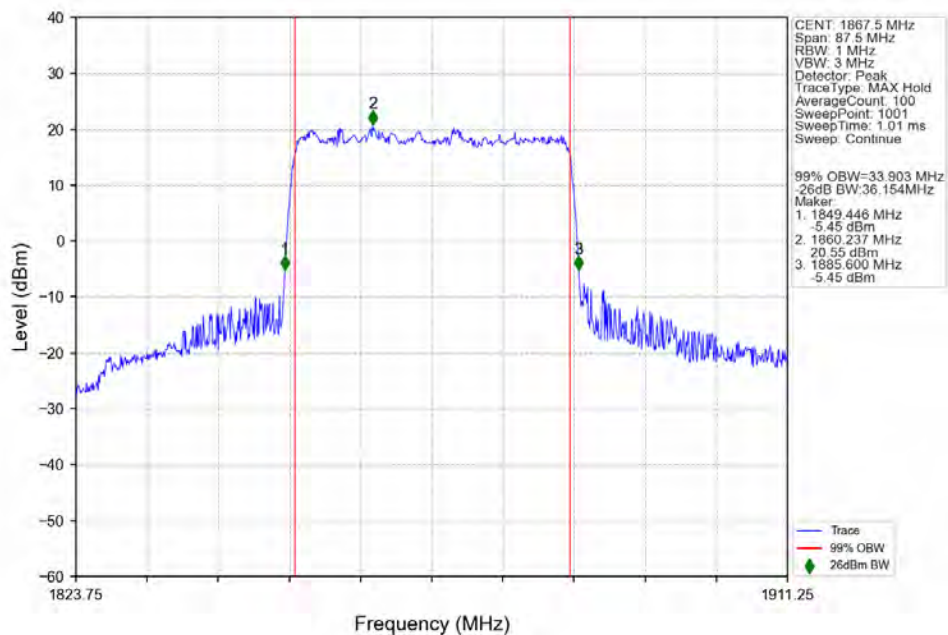
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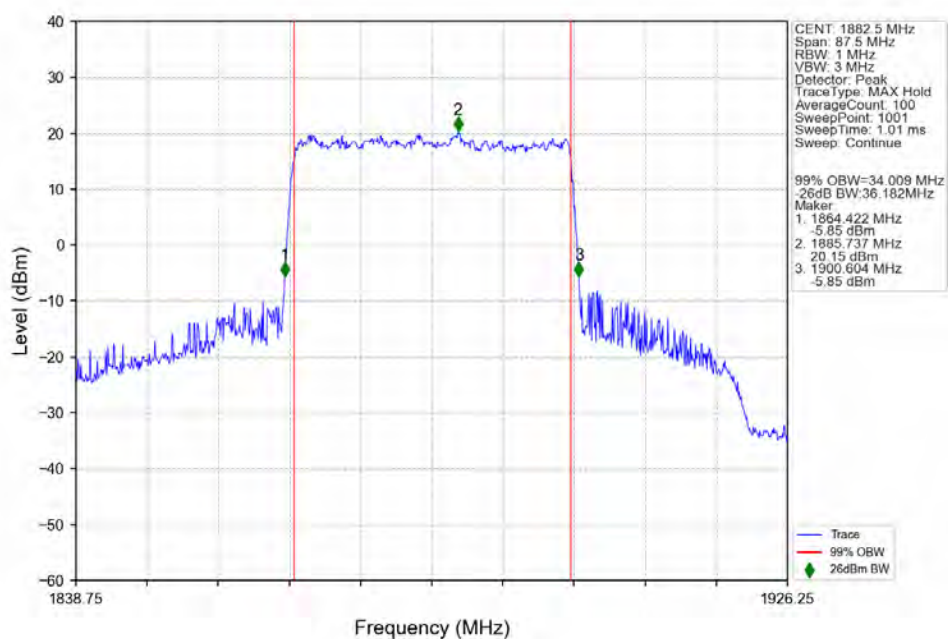
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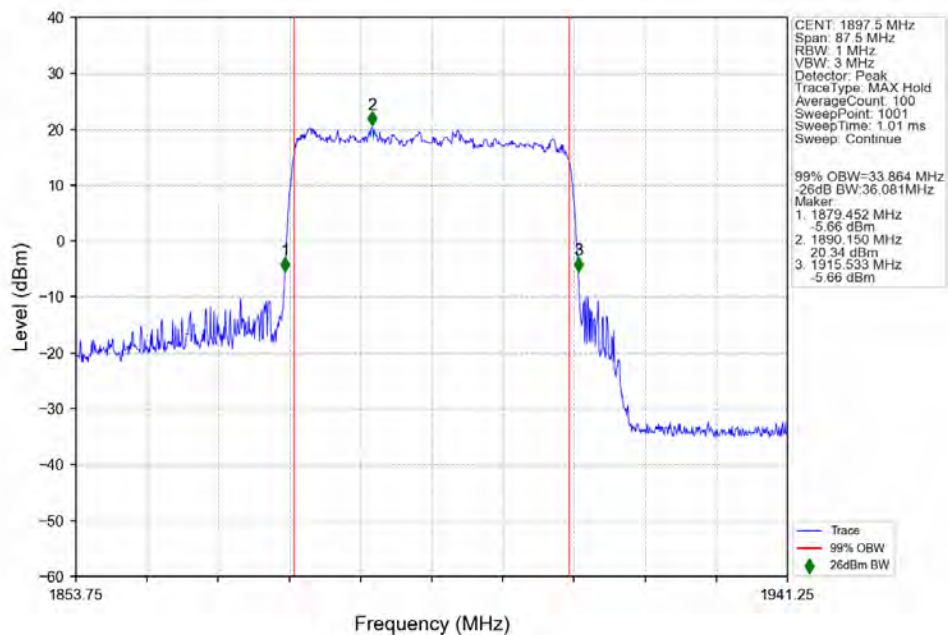
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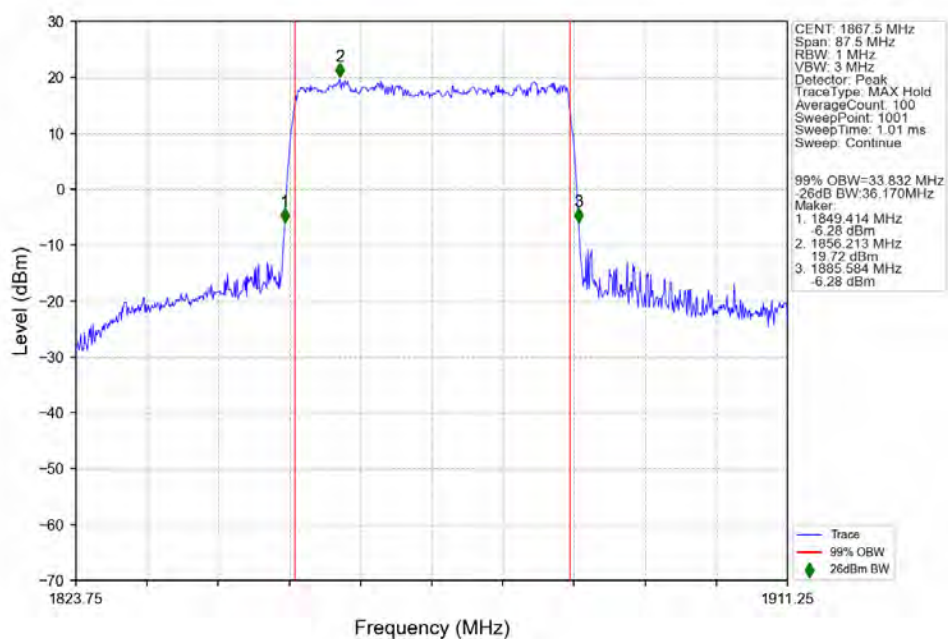
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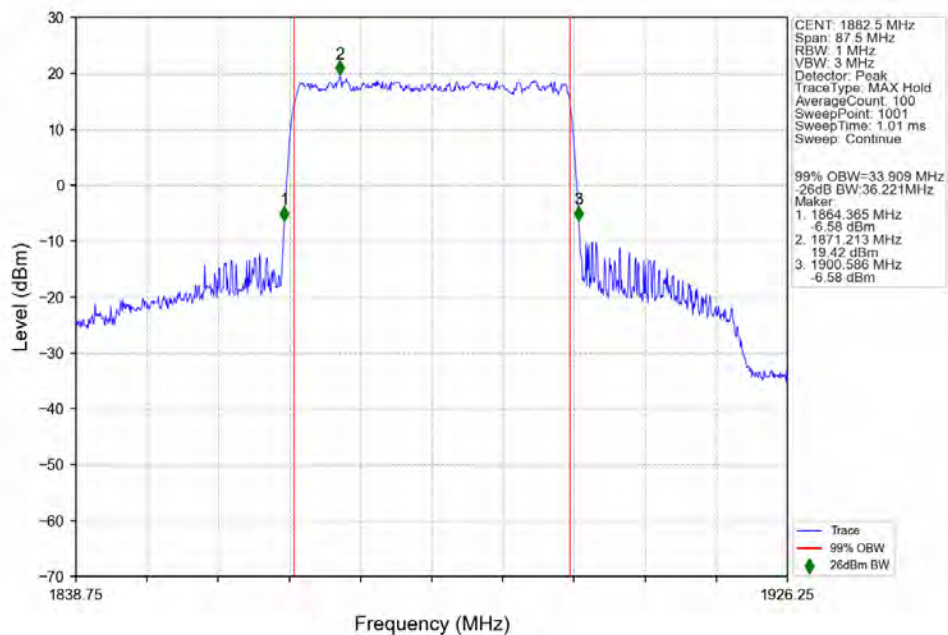
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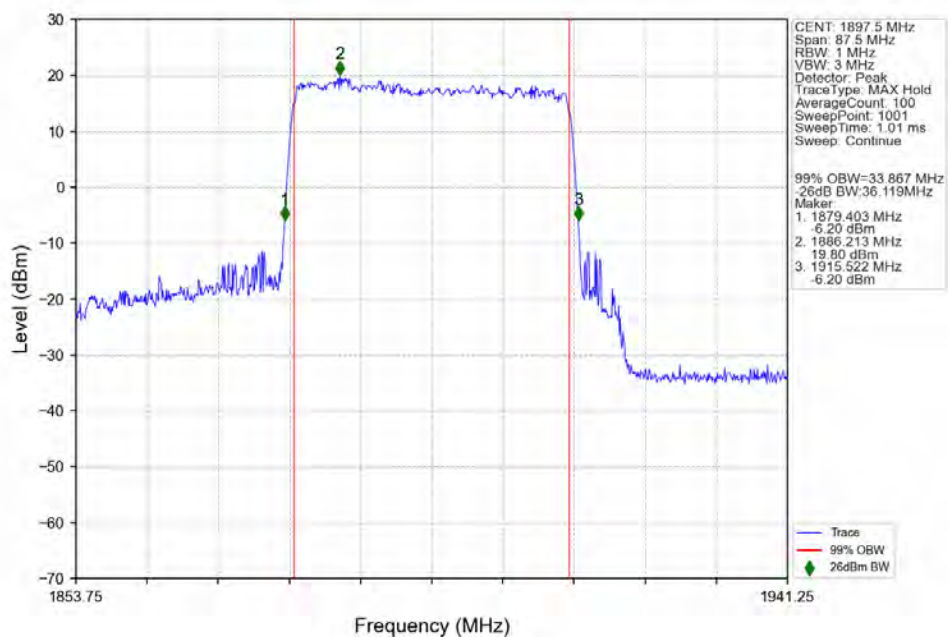
n25 15kHz SISO NTN 35MHz CP-OFDM 64 QAM 1867.5MHz Outer Full Ant1



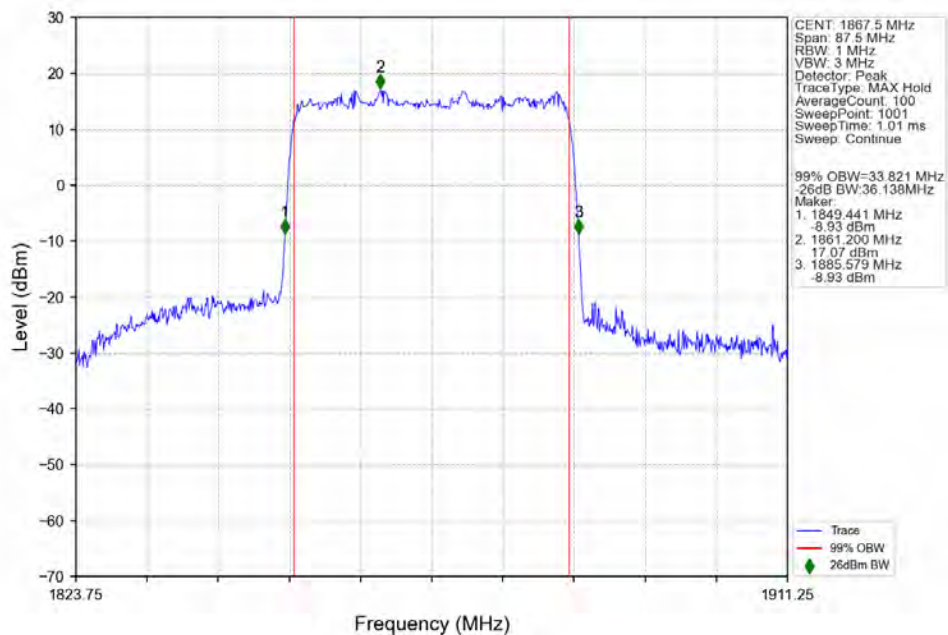
n25 15kHz SISO NTN 35MHz CP-OFDM 64 QAM 1882.5MHz Outer Full Ant1



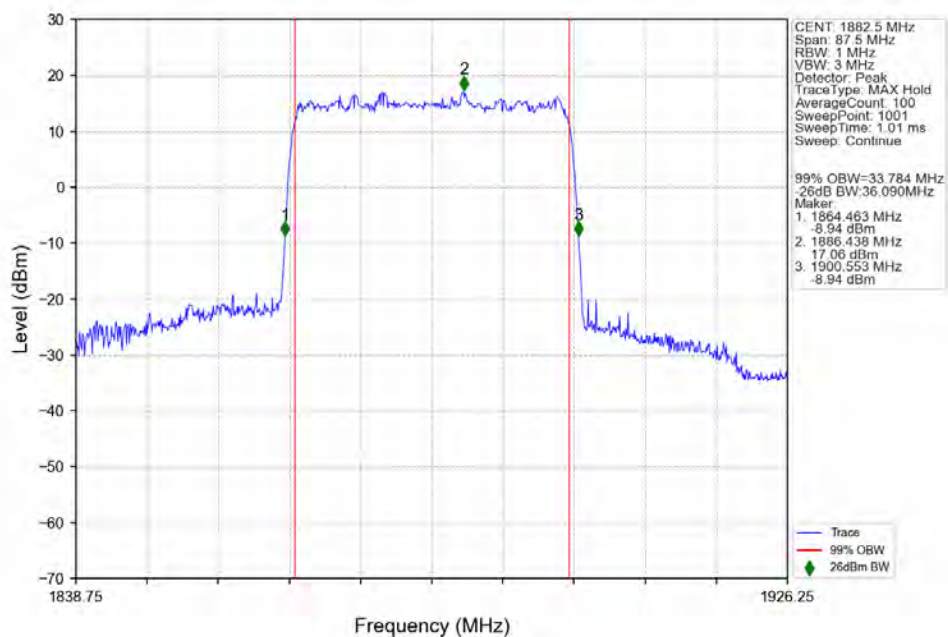
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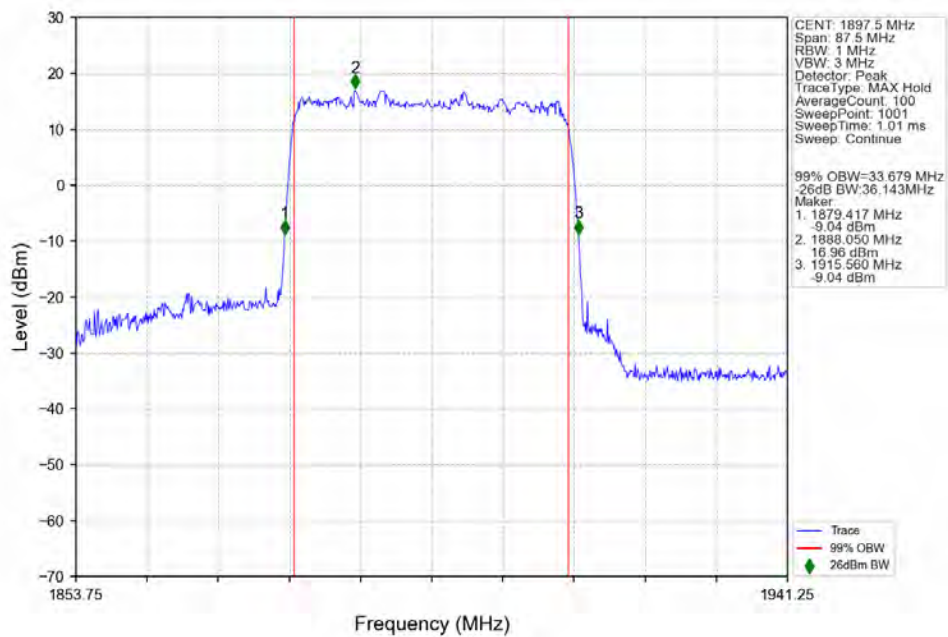
n25\_15kHz\_SISO\_NTNV\_35MHz\_CP-OFDM\_256\_QAM\_1867.5MHz\_Outer\_Full\_Ant1



n25\_15kHz\_SISO\_NTNV\_35MHz\_CP-OFDM\_256\_QAM\_1882.5MHz\_Outer\_Full\_Ant1

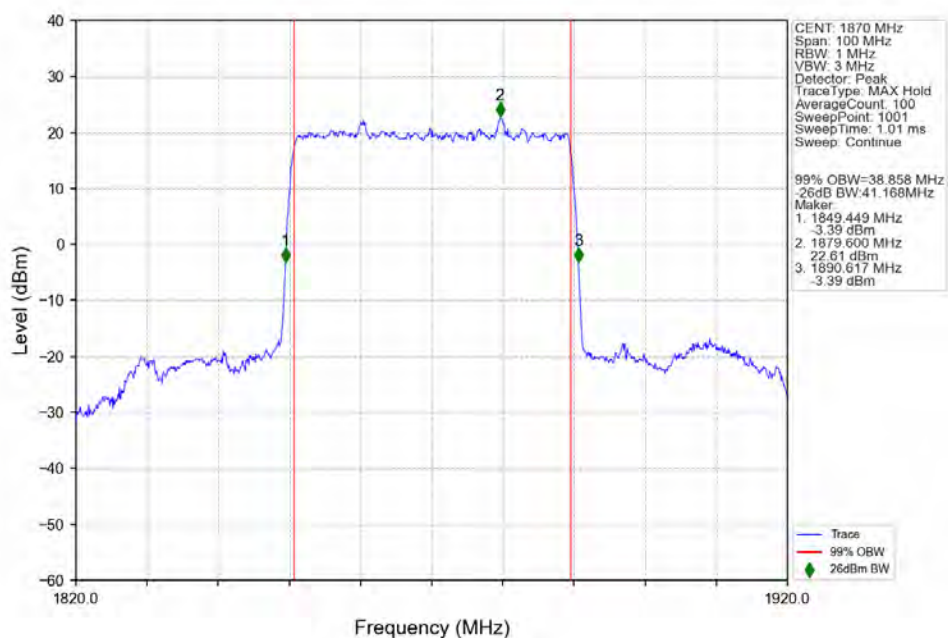


n25 15kHz SISO NTN 35MHz CP-OFDM 256 QAM 1897.5MHz Outer Full Ant1

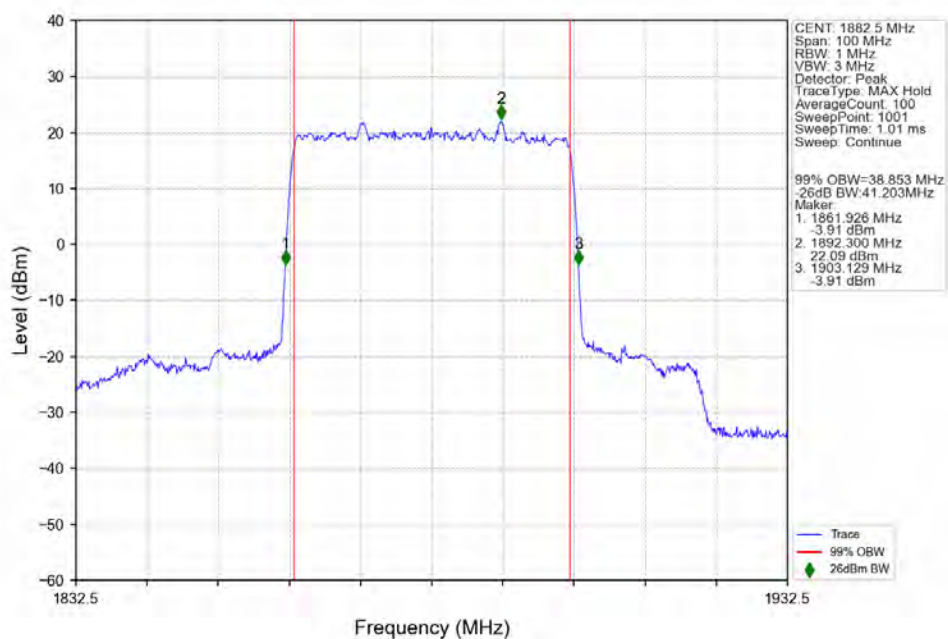


## 3.2.8 15k\_SISO\_40MHz\_NTNV

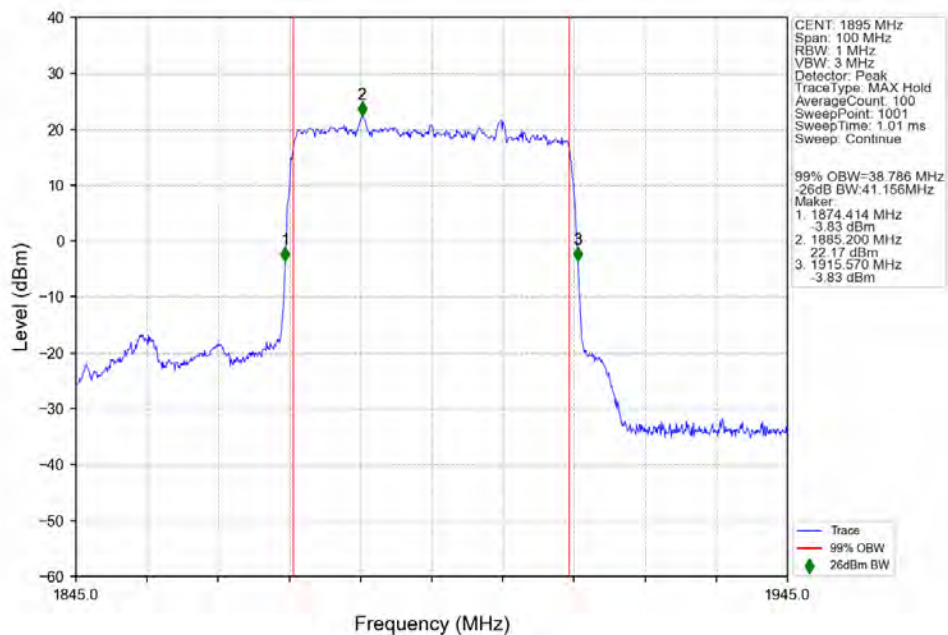
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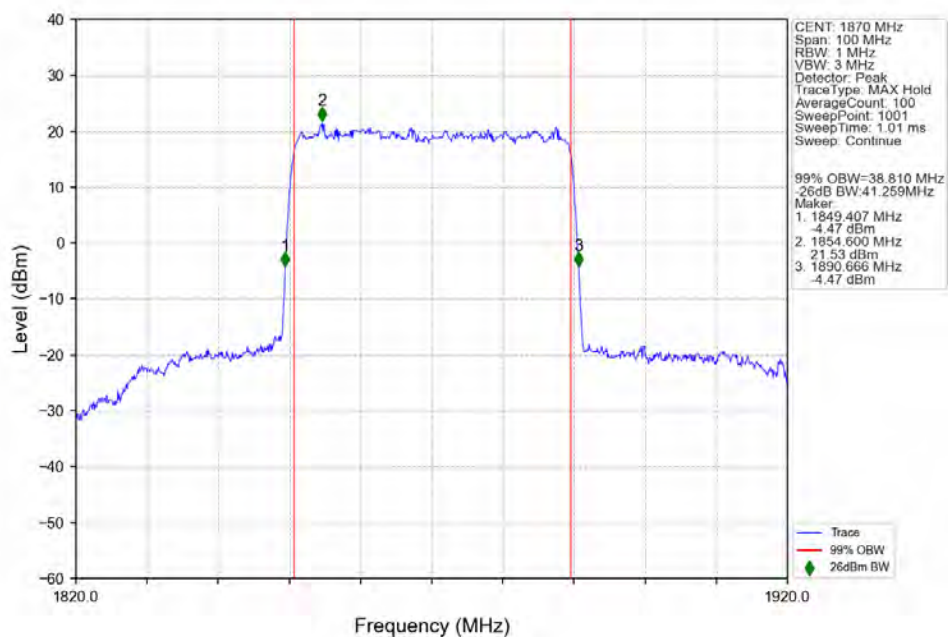
n25\_15kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_1882.5MHz\_Outer\_Full\_Ant1



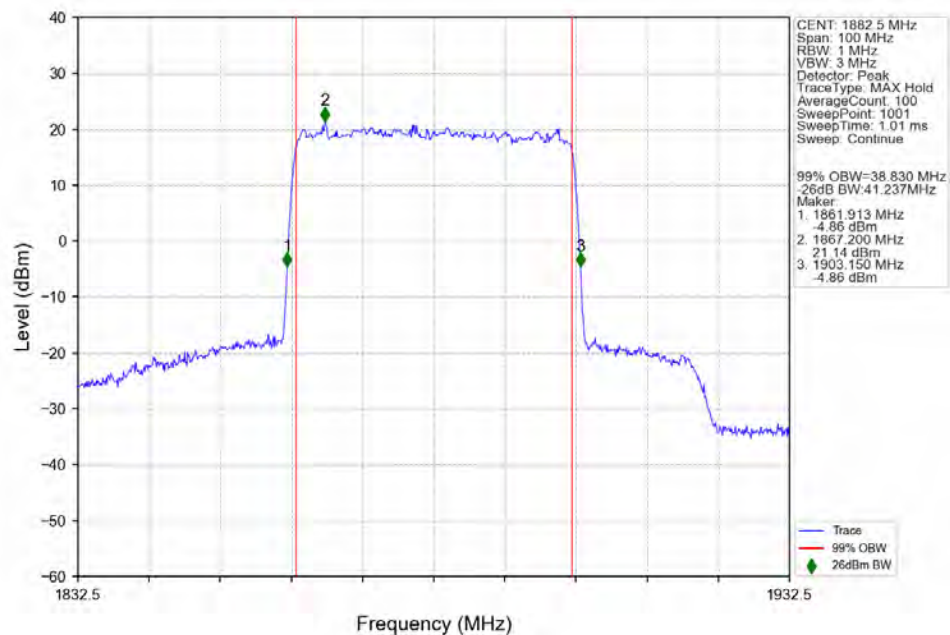
n25 15kHz SISO NTN 40MHz DFT-s-OFDM PI/2 BPSK 1895MHz Outer Full Ant1



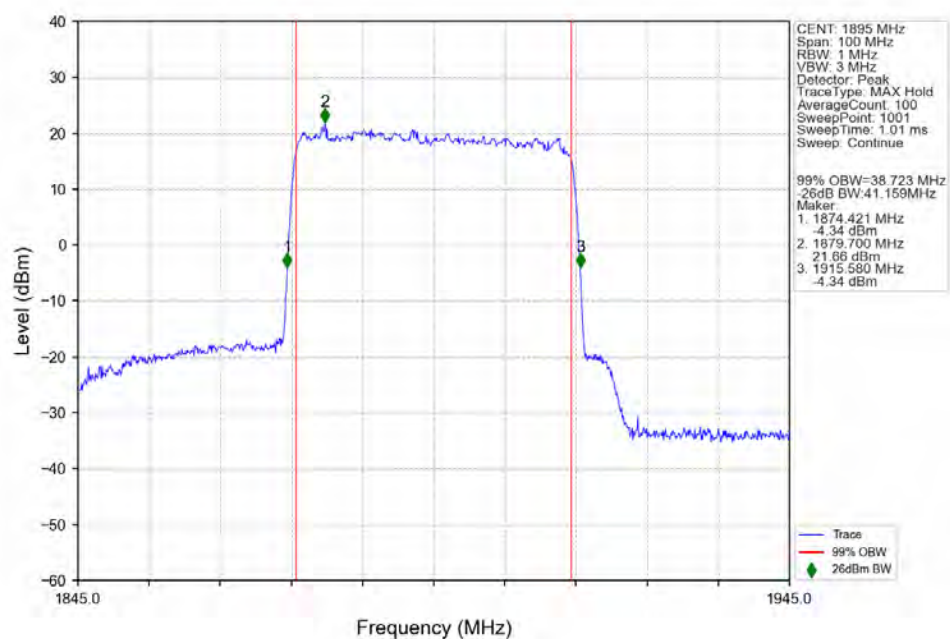
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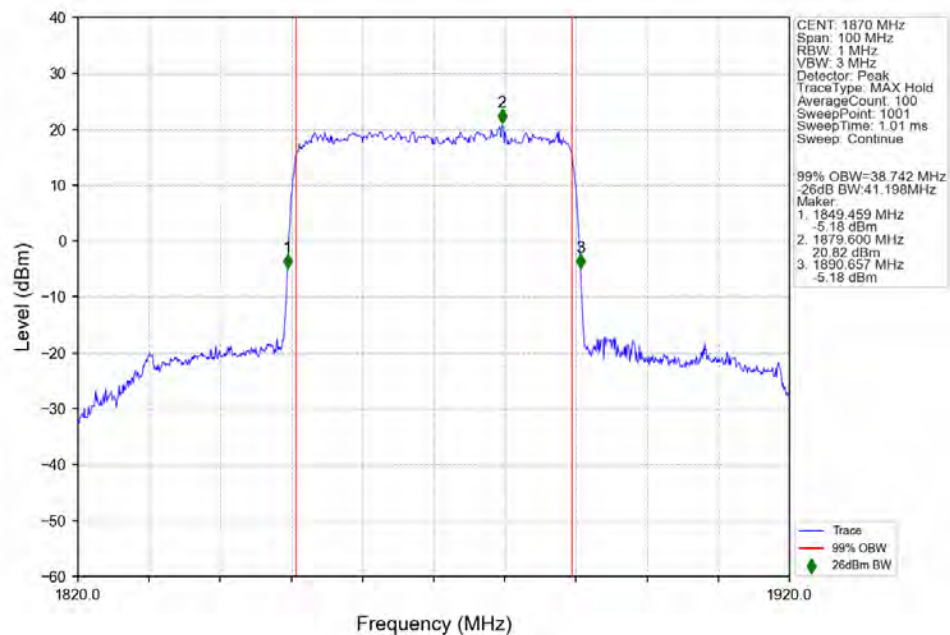
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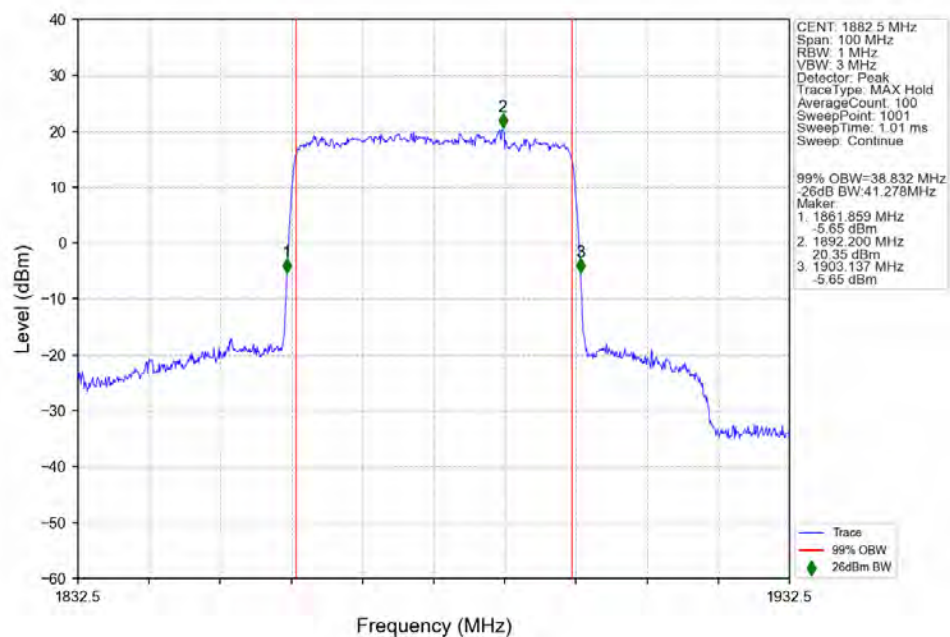
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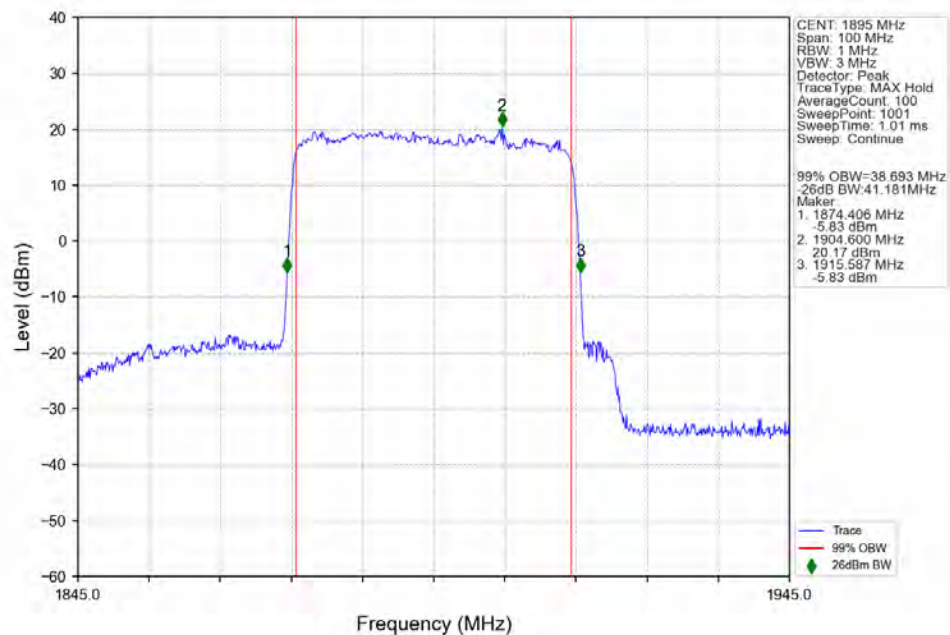
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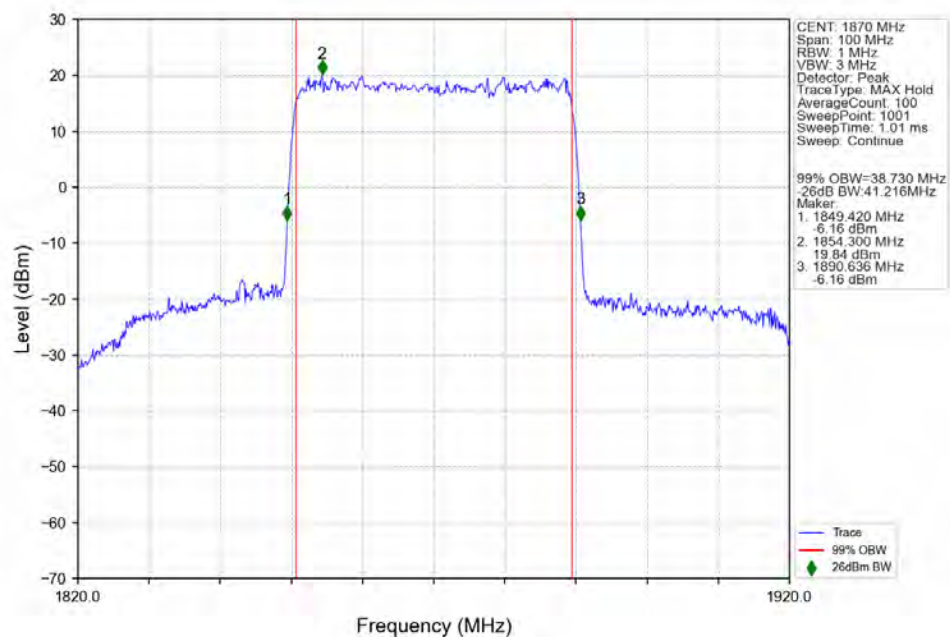
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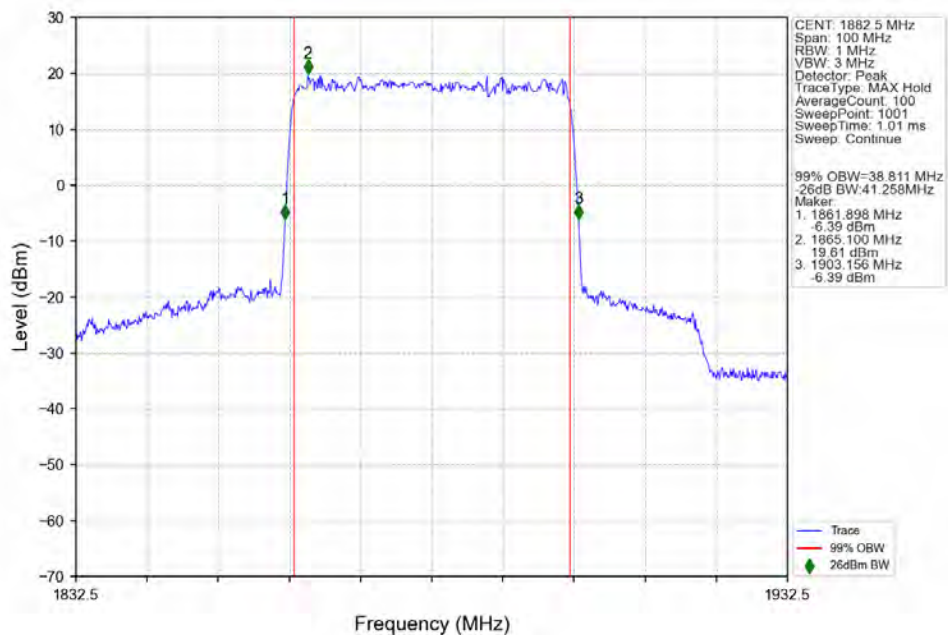
n25 15kHz SISO NTN 40MHz DFT-s-OFDM 16 QAM 1895MHz Outer Full Ant1



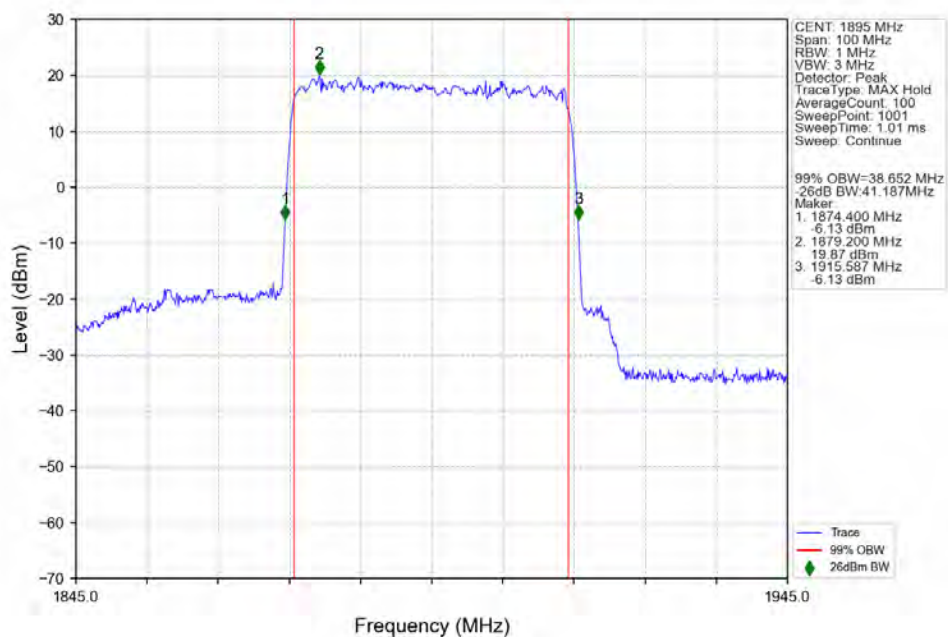
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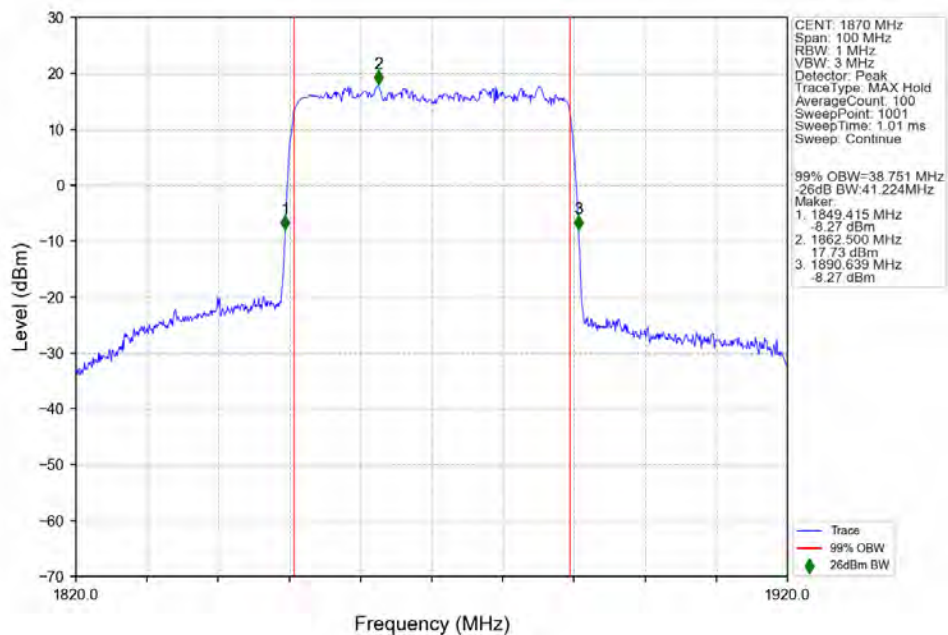
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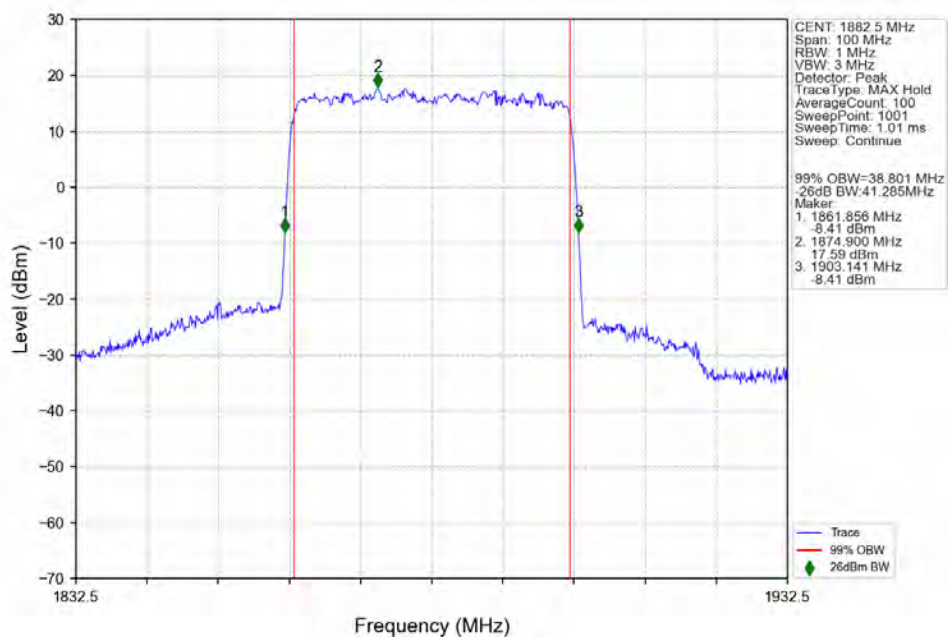
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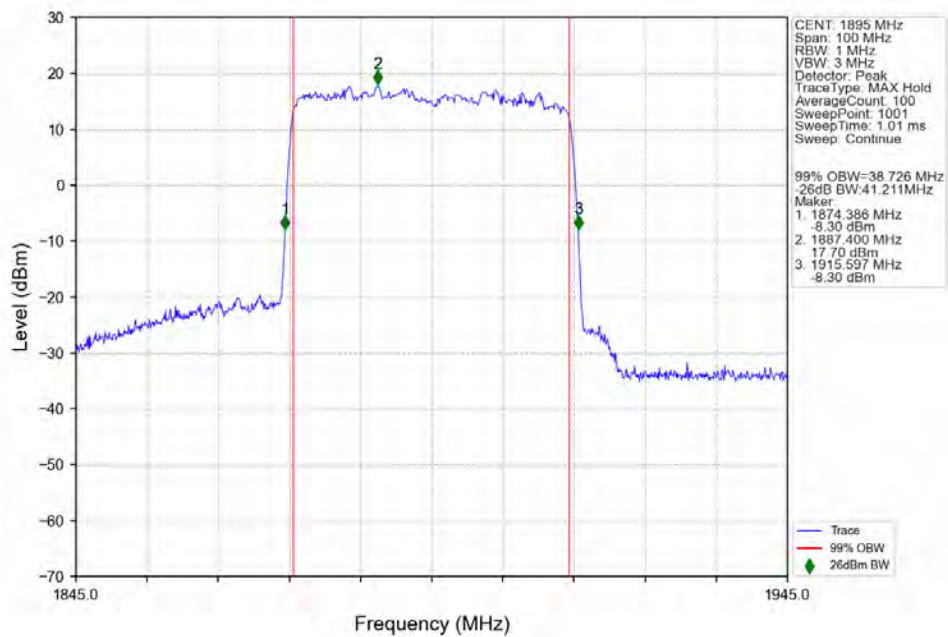
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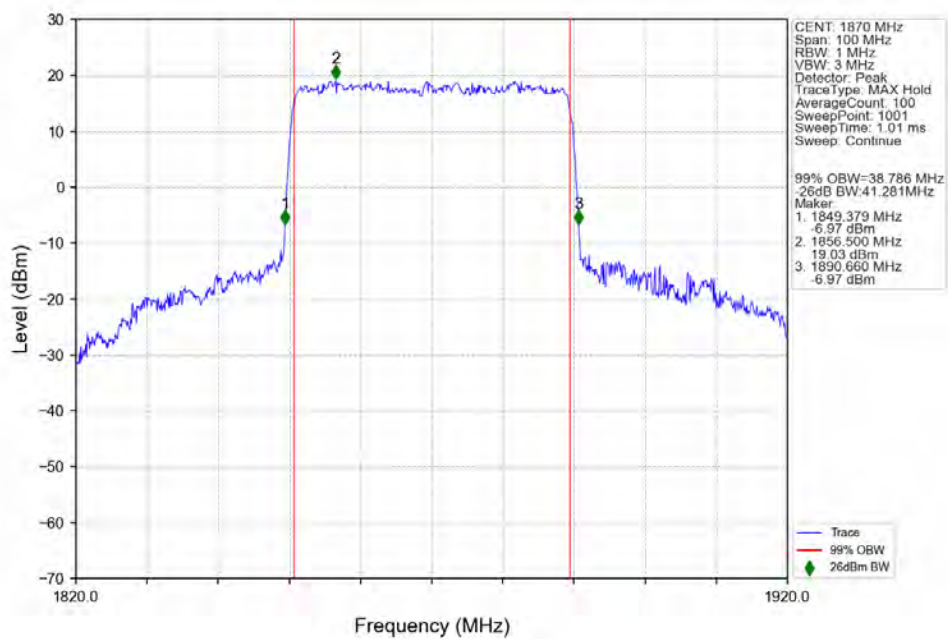
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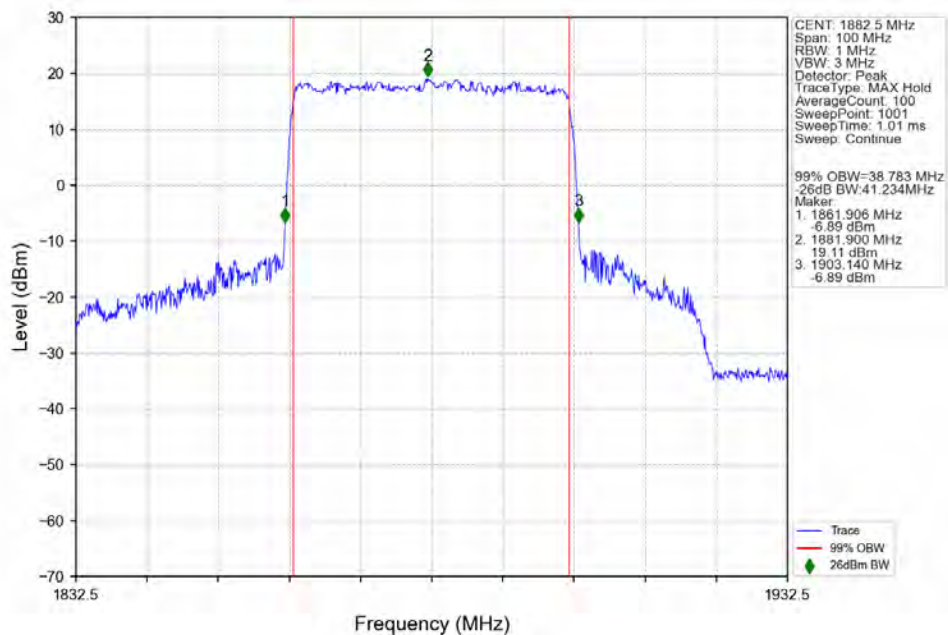
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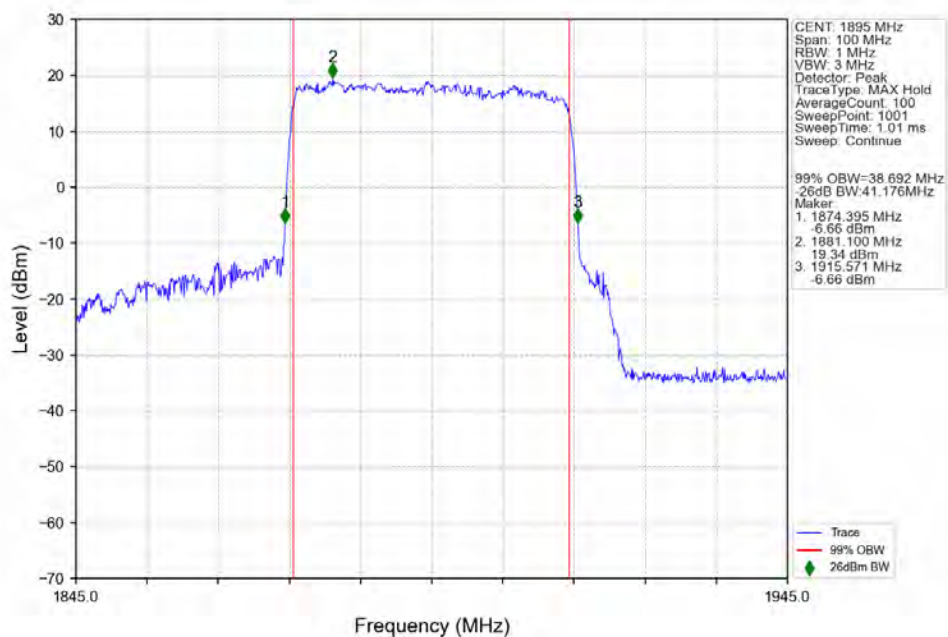
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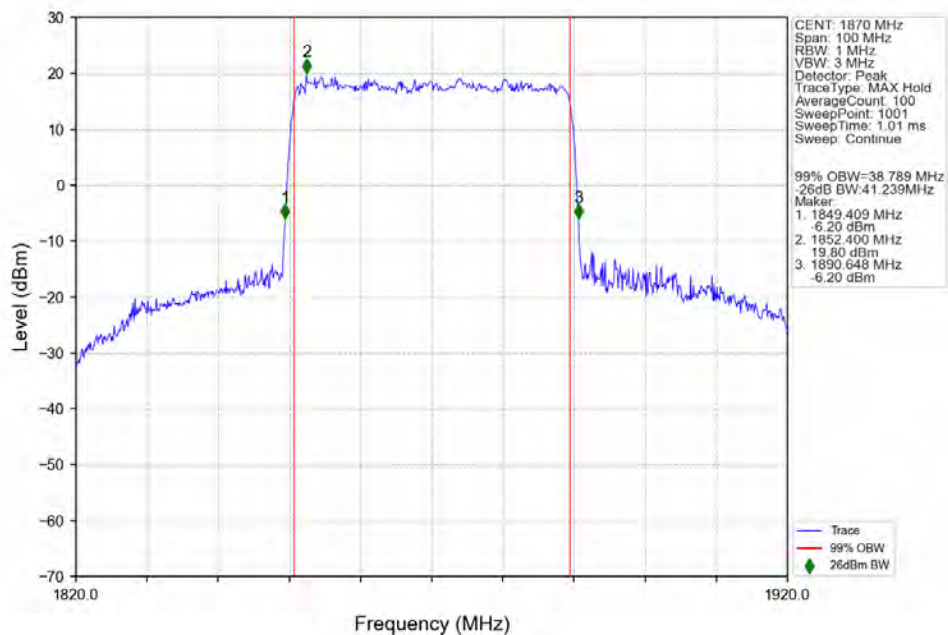
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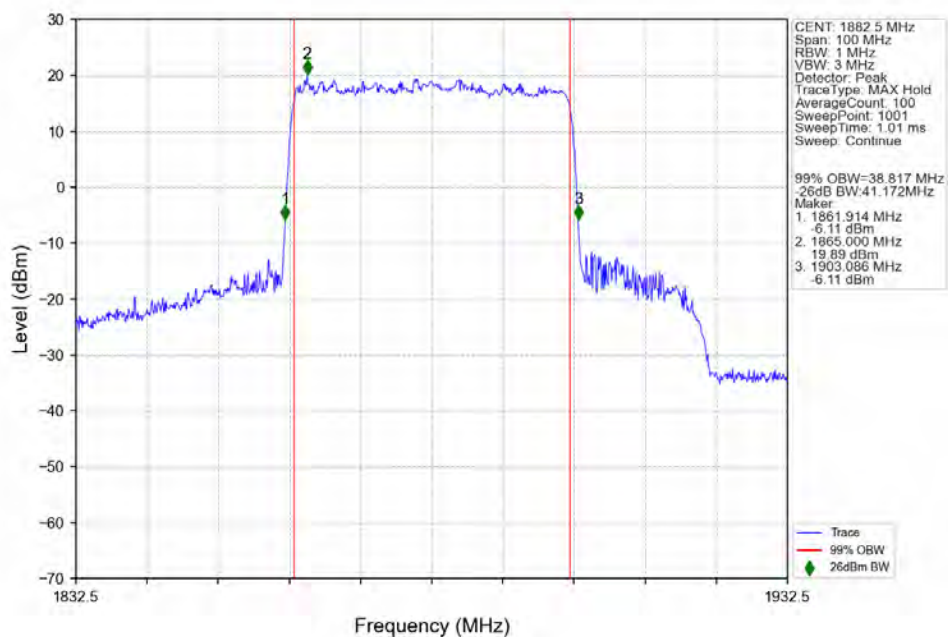
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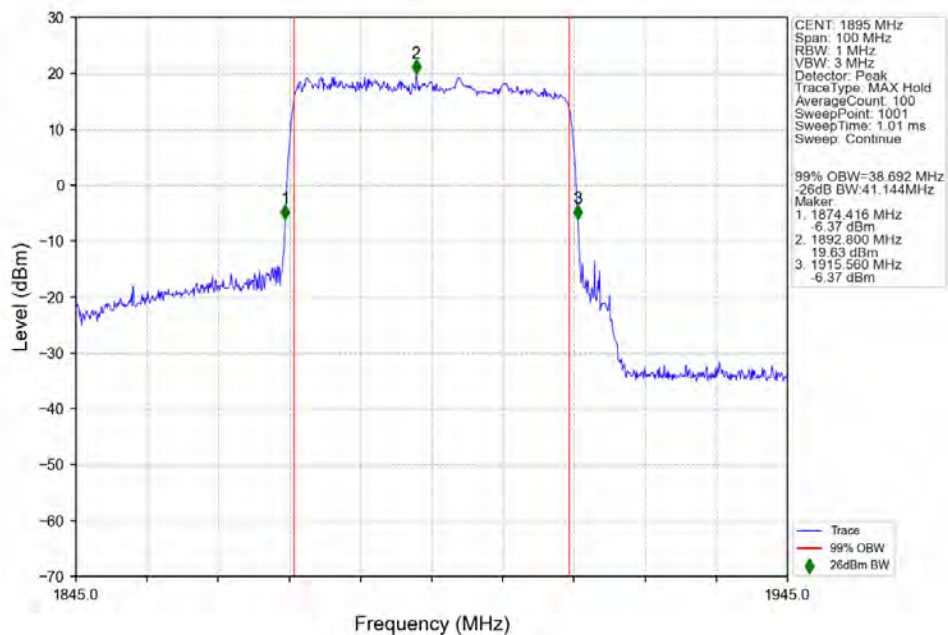
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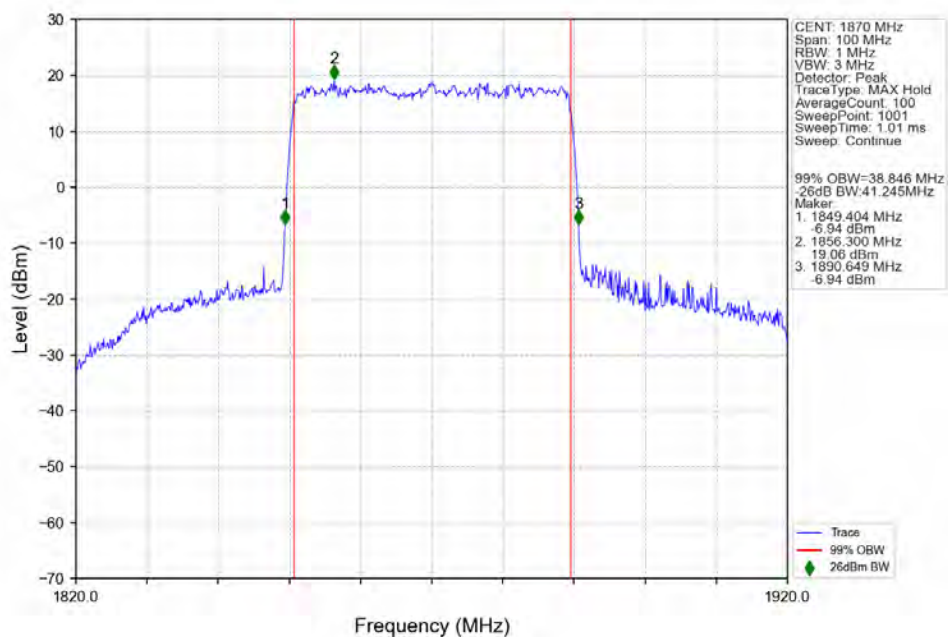
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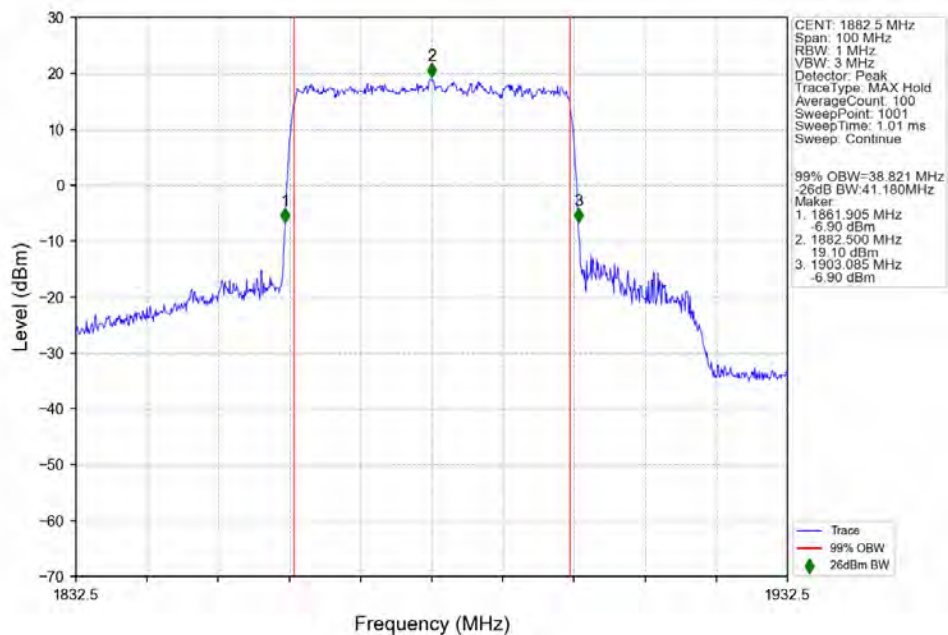
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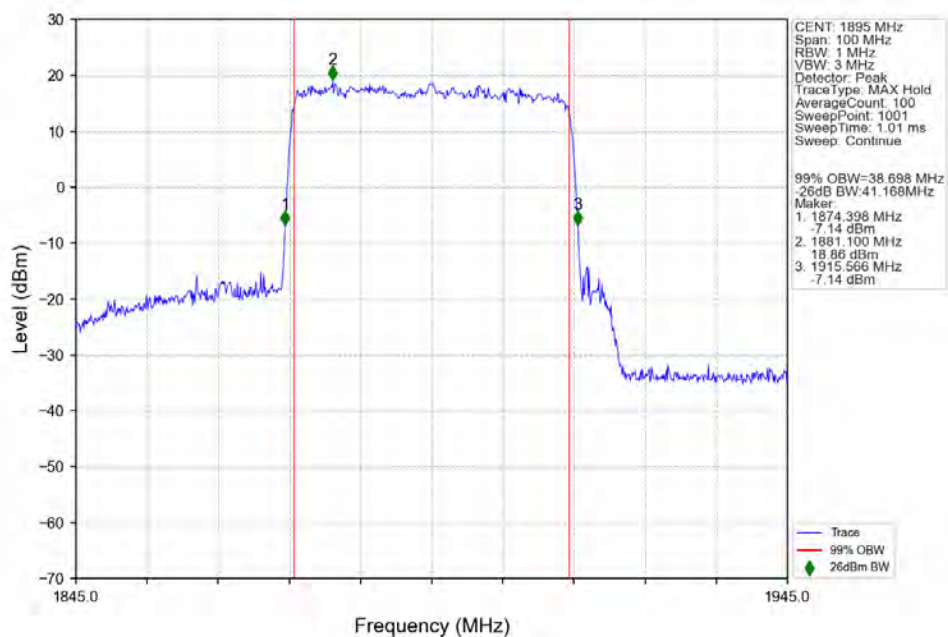
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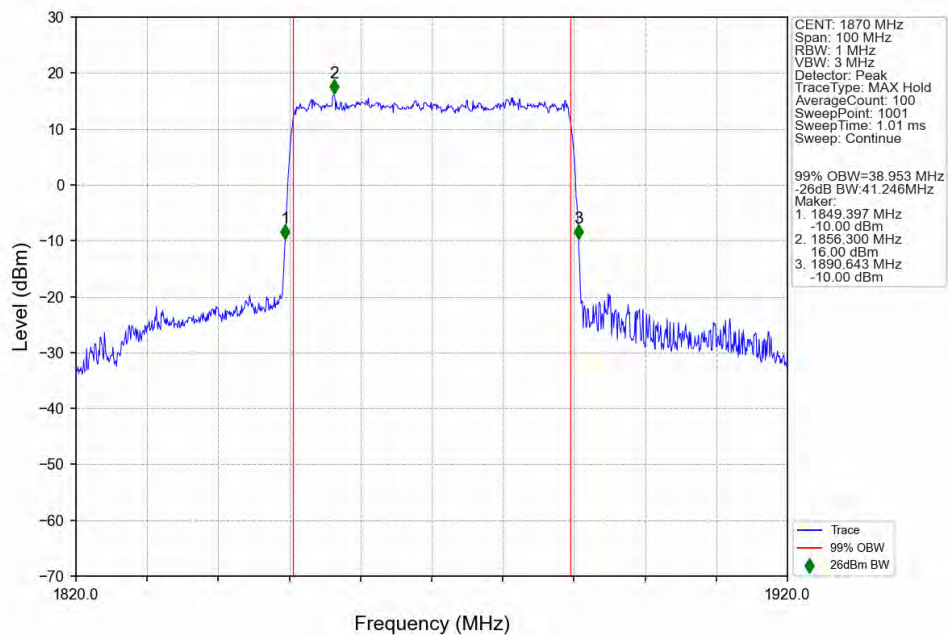
n25 15kHz SISO NTN 40MHz CP-OFDM 64 QAM 1882.5MHz Outer Full Ant1



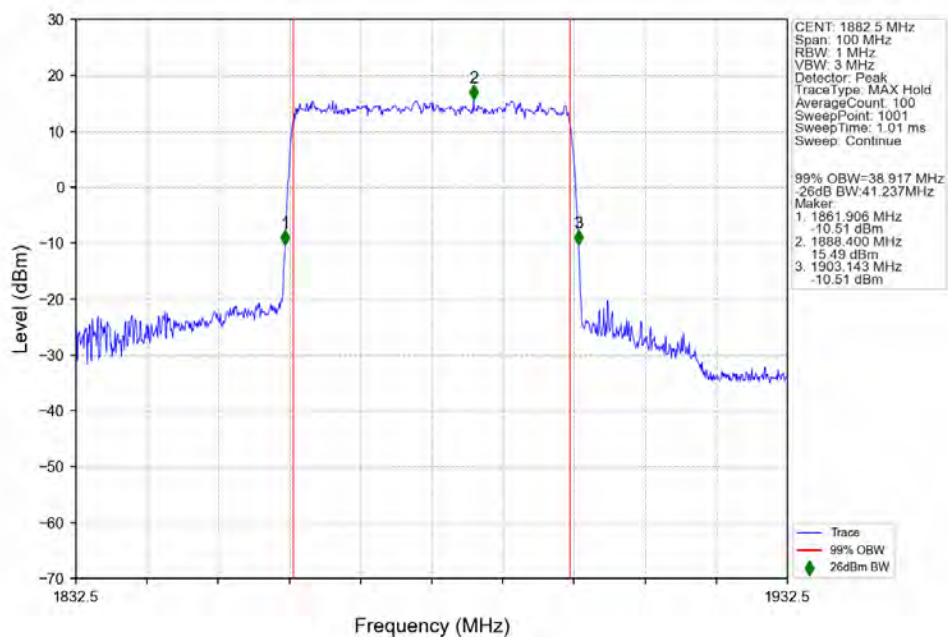
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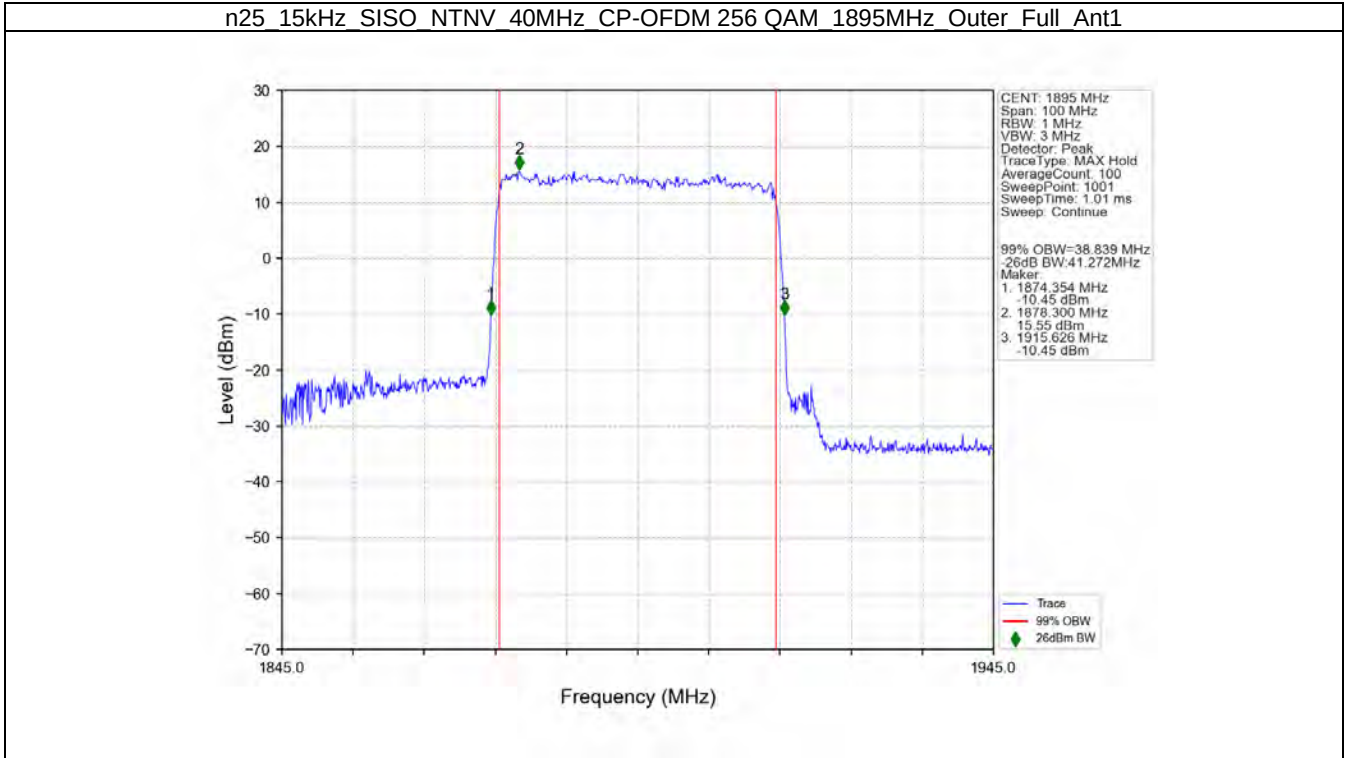


n25 15kHz SISO NTN 40MHz CP-OFDM 256 QAM 1870MHz Outer Full Ant1



n25 15kHz SISO NTN 40MHz CP-OFDM 256 QAM 1882.5MHz Outer Full Ant1





## 4. Peak-Average Ratio

### 4.1 Test Result

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

| 5G NR n25 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              | 1852.5          | Outer_Full    | 5.86                    | /    | /   | <=13  | Pass    |
|                                   | 1882.5          | Outer_Full    | 4.68                    | /    | /   | <=13  | Pass    |
|                                   | 1912.5          | Outer_Full    | 4.30                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                   | 1852.5          | Outer_Full    | 6.16                    | /    | /   | <=13  | Pass    |
|                                   | 1882.5          | Outer_Full    | 5.78                    | /    | /   | <=13  | Pass    |
|                                   | 1912.5          | Outer_Full    | 5.62                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                 | 1852.5          | Outer_Full    | 6.54                    | /    | /   | <=13  | Pass    |
|                                   | 1882.5          | Outer_Full    | 6.44                    | /    | /   | <=13  | Pass    |
|                                   | 1912.5          | Outer_Full    | 6.10                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                 | 1852.5          | Outer_Full    | 6.94                    | /    | /   | <=13  | Pass    |
|                                   | 1882.5          | Outer_Full    | 6.82                    | /    | /   | <=13  | Pass    |
|                                   | 1912.5          | Outer_Full    | 6.54                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                | 1852.5          | Outer_Full    | 6.96                    | /    | /   | <=13  | Pass    |
|                                   | 1882.5          | Outer_Full    | 6.78                    | /    | /   | <=13  | Pass    |
|                                   | 1912.5          | Outer_Full    | 6.98                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                      | 1852.5          | Outer_Full    | 8.48                    | /    | /   | <=13  | Pass    |
|                                   | 1882.5          | Outer_Full    | 8.54                    | /    | /   | <=13  | Pass    |
|                                   | 1912.5          | Outer_Full    | 7.76                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                    | 1852.5          | Outer_Full    | 8.92                    | /    | /   | <=13  | Pass    |
|                                   | 1882.5          | Outer_Full    | 8.50                    | /    | /   | <=13  | Pass    |
|                                   | 1912.5          | Outer_Full    | 8.16                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                    | 1852.5          | Outer_Full    | 8.76                    | /    | /   | <=13  | Pass    |
|                                   | 1882.5          | Outer_Full    | 8.62                    | /    | /   | <=13  | Pass    |
|                                   | 1912.5          | Outer_Full    | 8.02                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                   | 1852.5          | Outer_Full    | 9.00                    | /    | /   | <=13  | Pass    |
|                                   | 1882.5          | Outer_Full    | 8.72                    | /    | /   | <=13  | Pass    |
|                                   | 1912.5          | Outer_Full    | 8.68                    | /    | /   | <=13  | Pass    |

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

| 5G NR n25 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               | 1855            | Outer_Full    | 4.58                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 4.56                    | /    | /   | <=13  | Pass    |
|                                    | 1910            | Outer_Full    | 4.32                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                    | 1855            | Outer_Full    | 5.88                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 5.76                    | /    | /   | <=13  | Pass    |
|                                    | 1910            | Outer_Full    | 5.44                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                  | 1855            | Outer_Full    | 6.44                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 6.76                    | /    | /   | <=13  | Pass    |
|                                    | 1910            | Outer_Full    | 6.46                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                  | 1855            | Outer_Full    | 6.78                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 6.78                    | /    | /   | <=13  | Pass    |
|                                    | 1910            | Outer_Full    | 6.46                    | /    | /   | <=13  | Pass    |

|                    |        |            |      |   |   |      |      |
|--------------------|--------|------------|------|---|---|------|------|
| DFT-s-OFDM 256 QAM | 1855   | Outer_Full | 6.66 | / | / | <=13 | Pass |
|                    | 1882.5 | Outer_Full | 6.76 | / | / | <=13 | Pass |
|                    | 1910   | Outer_Full | 6.66 | / | / | <=13 | Pass |
| CP-OFDM QPSK       | 1855   | Outer_Full | 8.48 | / | / | <=13 | Pass |
|                    | 1882.5 | Outer_Full | 8.58 | / | / | <=13 | Pass |
|                    | 1910   | Outer_Full | 8.02 | / | / | <=13 | Pass |
| CP-OFDM 16 QAM     | 1855   | Outer_Full | 8.70 | / | / | <=13 | Pass |
|                    | 1882.5 | Outer_Full | 8.62 | / | / | <=13 | Pass |
|                    | 1910   | Outer_Full | 8.14 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM     | 1855   | Outer_Full | 8.46 | / | / | <=13 | Pass |
|                    | 1882.5 | Outer_Full | 8.32 | / | / | <=13 | Pass |
|                    | 1910   | Outer_Full | 8.14 | / | / | <=13 | Pass |
| CP-OFDM 256 QAM    | 1855   | Outer_Full | 8.34 | / | / | <=13 | Pass |
|                    | 1882.5 | Outer_Full | 8.50 | / | / | <=13 | Pass |
|                    | 1910   | Outer_Full | 8.46 | / | / | <=13 | Pass |

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

| 5G NR n25 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               | 1857.5          | Outer_Full    | 4.38                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 4.64                    | /    | /   | <=13  | Pass    |
|                                    | 1907.5          | Outer_Full    | 4.40                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                    | 1857.5          | Outer_Full    | 5.78                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 5.78                    | /    | /   | <=13  | Pass    |
|                                    | 1907.5          | Outer_Full    | 5.54                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                  | 1857.5          | Outer_Full    | 6.42                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 6.54                    | /    | /   | <=13  | Pass    |
|                                    | 1907.5          | Outer_Full    | 6.26                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                  | 1857.5          | Outer_Full    | 6.62                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 6.66                    | /    | /   | <=13  | Pass    |
|                                    | 1907.5          | Outer_Full    | 6.64                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                 | 1857.5          | Outer_Full    | 6.54                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 6.76                    | /    | /   | <=13  | Pass    |
|                                    | 1907.5          | Outer_Full    | 6.76                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                       | 1857.5          | Outer_Full    | 8.48                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 8.42                    | /    | /   | <=13  | Pass    |
|                                    | 1907.5          | Outer_Full    | 8.14                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                     | 1857.5          | Outer_Full    | 8.48                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 8.52                    | /    | /   | <=13  | Pass    |
|                                    | 1907.5          | Outer_Full    | 8.14                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                     | 1857.5          | Outer_Full    | 8.44                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 8.58                    | /    | /   | <=13  | Pass    |
|                                    | 1907.5          | Outer_Full    | 8.26                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                    | 1857.5          | Outer_Full    | 8.78                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 8.78                    | /    | /   | <=13  | Pass    |
|                                    | 1907.5          | Outer_Full    | 8.64                    | /    | /   | <=13  | Pass    |

#### 4.1.4 15k\_SISO\_20MHz\_NTNV

| 5G NR n25 SCS=15kHz SISO 20MHz NTN |                 |               |                         |      |     |       |         |
|------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                    |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 1860            | Outer_Full    | 4.50                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 4.50                    | /    | /   | <=13  | Pass    |

|                    |        |            |      |   |   |      |      |
|--------------------|--------|------------|------|---|---|------|------|
|                    | 1905   | Outer Full | 4.38 | / | / | <=13 | Pass |
| DFT-s-OFDM QPSK    | 1860   | Outer Full | 5.74 | / | / | <=13 | Pass |
|                    | 1882.5 | Outer Full | 5.88 | / | / | <=13 | Pass |
|                    | 1905   | Outer Full | 5.60 | / | / | <=13 | Pass |
| DFT-s-OFDM 16 QAM  | 1860   | Outer Full | 6.54 | / | / | <=13 | Pass |
|                    | 1882.5 | Outer Full | 6.48 | / | / | <=13 | Pass |
|                    | 1905   | Outer Full | 6.58 | / | / | <=13 | Pass |
| DFT-s-OFDM 64 QAM  | 1860   | Outer Full | 6.62 | / | / | <=13 | Pass |
|                    | 1882.5 | Outer Full | 6.82 | / | / | <=13 | Pass |
|                    | 1905   | Outer Full | 6.58 | / | / | <=13 | Pass |
| DFT-s-OFDM 256 QAM | 1860   | Outer Full | 6.70 | / | / | <=13 | Pass |
|                    | 1882.5 | Outer Full | 6.64 | / | / | <=13 | Pass |
|                    | 1905   | Outer Full | 6.78 | / | / | <=13 | Pass |
| CP-OFDM QPSK       | 1860   | Outer Full | 8.38 | / | / | <=13 | Pass |
|                    | 1882.5 | Outer Full | 8.52 | / | / | <=13 | Pass |
|                    | 1905   | Outer Full | 8.20 | / | / | <=13 | Pass |
| CP-OFDM 16 QAM     | 1860   | Outer Full | 8.40 | / | / | <=13 | Pass |
|                    | 1882.5 | Outer Full | 8.40 | / | / | <=13 | Pass |
|                    | 1905   | Outer Full | 8.22 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM     | 1860   | Outer Full | 8.38 | / | / | <=13 | Pass |
|                    | 1882.5 | Outer Full | 8.50 | / | / | <=13 | Pass |
|                    | 1905   | Outer Full | 8.38 | / | / | <=13 | Pass |
| CP-OFDM 256 QAM    | 1860   | Outer Full | 8.46 | / | / | <=13 | Pass |
|                    | 1882.5 | Outer Full | 8.60 | / | / | <=13 | Pass |
|                    | 1905   | Outer Full | 8.58 | / | / | <=13 | Pass |

## 4.1.5 15k\_SISO\_25MHz\_NTNV

| 5G NR n25 SCS=15kHz SISO 25MHz NTN |                 |               |                         |      |     |       |         |
|------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                    |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 1862.5          | Outer Full    | 5.00                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer Full    | 4.82                    | /    | /   | <=13  | Pass    |
|                                    | 1902.5          | Outer Full    | 4.84                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                    | 1862.5          | Outer Full    | 5.70                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer Full    | 5.74                    | /    | /   | <=13  | Pass    |
|                                    | 1902.5          | Outer Full    | 5.70                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                  | 1862.5          | Outer Full    | 6.46                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer Full    | 6.48                    | /    | /   | <=13  | Pass    |
|                                    | 1902.5          | Outer Full    | 6.48                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                  | 1862.5          | Outer Full    | 6.74                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer Full    | 6.76                    | /    | /   | <=13  | Pass    |
|                                    | 1902.5          | Outer Full    | 6.68                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                 | 1862.5          | Outer Full    | 6.82                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer Full    | 6.88                    | /    | /   | <=13  | Pass    |
|                                    | 1902.5          | Outer Full    | 6.94                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                       | 1862.5          | Outer Full    | 8.46                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer Full    | 8.48                    | /    | /   | <=13  | Pass    |
|                                    | 1902.5          | Outer Full    | 8.32                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                     | 1862.5          | Outer Full    | 8.52                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer Full    | 8.52                    | /    | /   | <=13  | Pass    |
|                                    | 1902.5          | Outer Full    | 8.38                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                     | 1862.5          | Outer Full    | 8.50                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer Full    | 8.60                    | /    | /   | <=13  | Pass    |
|                                    | 1902.5          | Outer Full    | 8.44                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                    | 1862.5          | Outer Full    | 8.58                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer Full    | 8.58                    | /    | /   | <=13  | Pass    |

|  |        |            |      |   |   |      |      |
|--|--------|------------|------|---|---|------|------|
|  | 1902.5 | Outer_Full | 8.58 | / | / | <=13 | Pass |
|--|--------|------------|------|---|---|------|------|

## 4.1.6 15k\_SISO\_30MHz\_NTNV

| 5G NR n25 SCS=15kHz SISO 30MHz NTN |                 |               |                         |      |     |       |         |
|------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                    |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 1865            | Outer_Full    | 4.66                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 4.54                    | /    | /   | <=13  | Pass    |
|                                    | 1900            | Outer_Full    | 4.56                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                    | 1865            | Outer_Full    | 5.82                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 5.76                    | /    | /   | <=13  | Pass    |
|                                    | 1900            | Outer_Full    | 5.68                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                  | 1865            | Outer_Full    | 6.46                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 6.52                    | /    | /   | <=13  | Pass    |
|                                    | 1900            | Outer_Full    | 6.52                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                  | 1865            | Outer_Full    | 6.80                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 6.70                    | /    | /   | <=13  | Pass    |
|                                    | 1900            | Outer_Full    | 6.78                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                 | 1865            | Outer_Full    | 6.76                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 6.70                    | /    | /   | <=13  | Pass    |
|                                    | 1900            | Outer_Full    | 6.68                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                       | 1865            | Outer_Full    | 8.34                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 8.36                    | /    | /   | <=13  | Pass    |
|                                    | 1900            | Outer_Full    | 8.32                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                     | 1865            | Outer_Full    | 8.34                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 8.42                    | /    | /   | <=13  | Pass    |
|                                    | 1900            | Outer_Full    | 8.26                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                     | 1865            | Outer_Full    | 8.50                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 8.56                    | /    | /   | <=13  | Pass    |
|                                    | 1900            | Outer_Full    | 8.42                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                    | 1865            | Outer_Full    | 8.62                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 8.60                    | /    | /   | <=13  | Pass    |
|                                    | 1900            | Outer_Full    | 8.60                    | /    | /   | <=13  | Pass    |

## 4.1.7 15k\_SISO\_35MHz\_NTNV

| 5G NR n25 SCS=15kHz SISO 35MHz NTN |                 |               |                         |      |     |       |         |
|------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                    |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 1867.5          | Outer_Full    | 4.72                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 4.58                    | /    | /   | <=13  | Pass    |
|                                    | 1897.5          | Outer_Full    | 4.54                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                    | 1867.5          | Outer_Full    | 5.80                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 5.66                    | /    | /   | <=13  | Pass    |
|                                    | 1897.5          | Outer_Full    | 5.68                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                  | 1867.5          | Outer_Full    | 6.52                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 6.54                    | /    | /   | <=13  | Pass    |
|                                    | 1897.5          | Outer_Full    | 6.56                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                  | 1867.5          | Outer_Full    | 6.76                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 6.72                    | /    | /   | <=13  | Pass    |
|                                    | 1897.5          | Outer_Full    | 6.70                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                 | 1867.5          | Outer_Full    | 6.68                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer_Full    | 6.72                    | /    | /   | <=13  | Pass    |
|                                    | 1897.5          | Outer_Full    | 6.80                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                       | 1867.5          | Outer_Full    | 8.34                    | /    | /   | <=13  | Pass    |

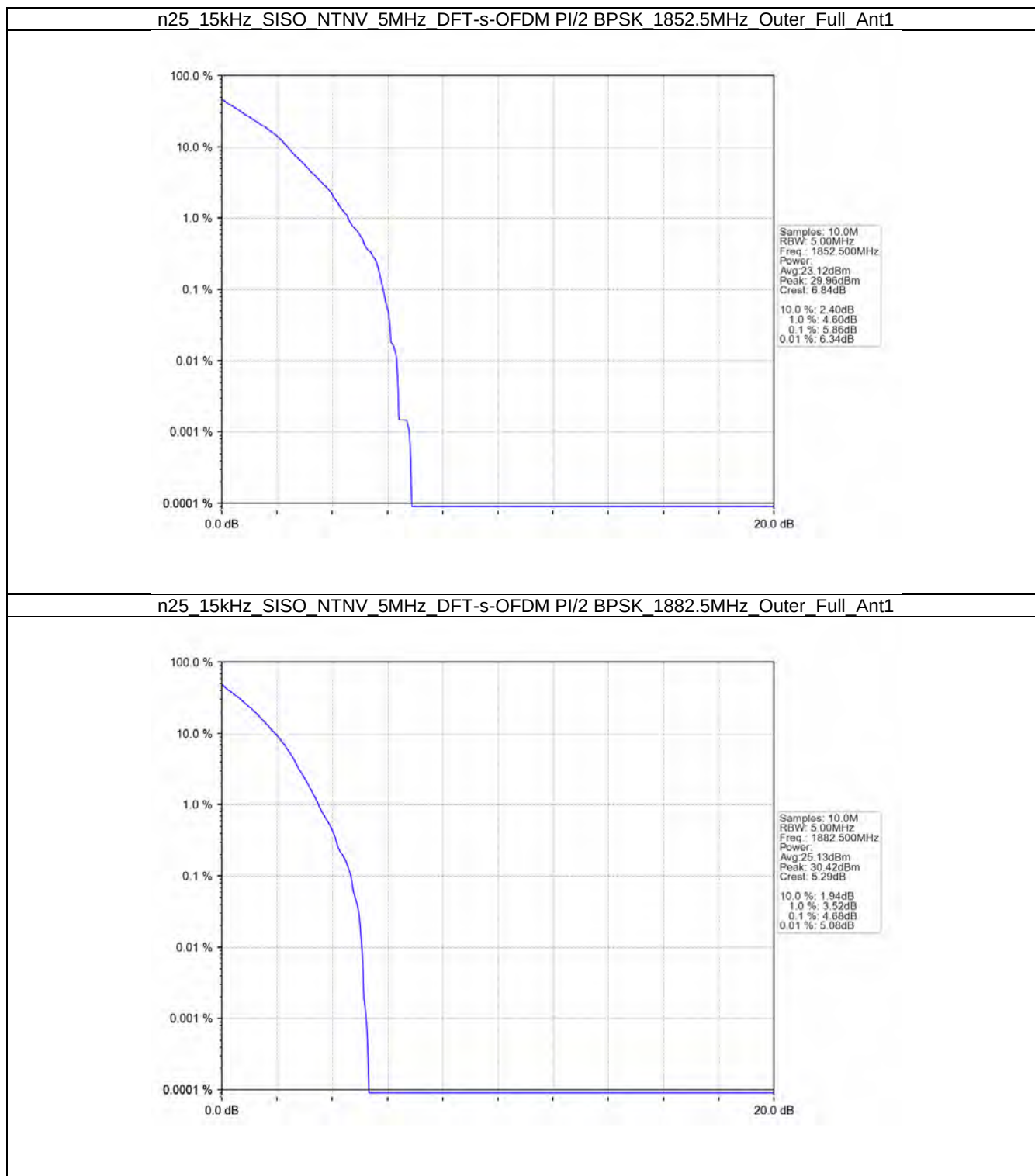
|                 |        |            |      |   |   |      |      |
|-----------------|--------|------------|------|---|---|------|------|
| CP-OFDM 16 QAM  | 1882.5 | Outer Full | 8.42 | / | / | <=13 | Pass |
|                 | 1897.5 | Outer Full | 8.28 | / | / | <=13 | Pass |
|                 | 1867.5 | Outer Full | 8.42 | / | / | <=13 | Pass |
|                 | 1882.5 | Outer Full | 8.44 | / | / | <=13 | Pass |
|                 | 1897.5 | Outer Full | 8.32 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM  | 1867.5 | Outer Full | 8.48 | / | / | <=13 | Pass |
|                 | 1882.5 | Outer Full | 8.50 | / | / | <=13 | Pass |
|                 | 1897.5 | Outer Full | 8.42 | / | / | <=13 | Pass |
| CP-OFDM 256 QAM | 1867.5 | Outer Full | 8.54 | / | / | <=13 | Pass |
|                 | 1882.5 | Outer Full | 8.52 | / | / | <=13 | Pass |
|                 | 1897.5 | Outer Full | 8.58 | / | / | <=13 | Pass |

## 4.1.8 15k\_SISO\_40MHz\_NTNV

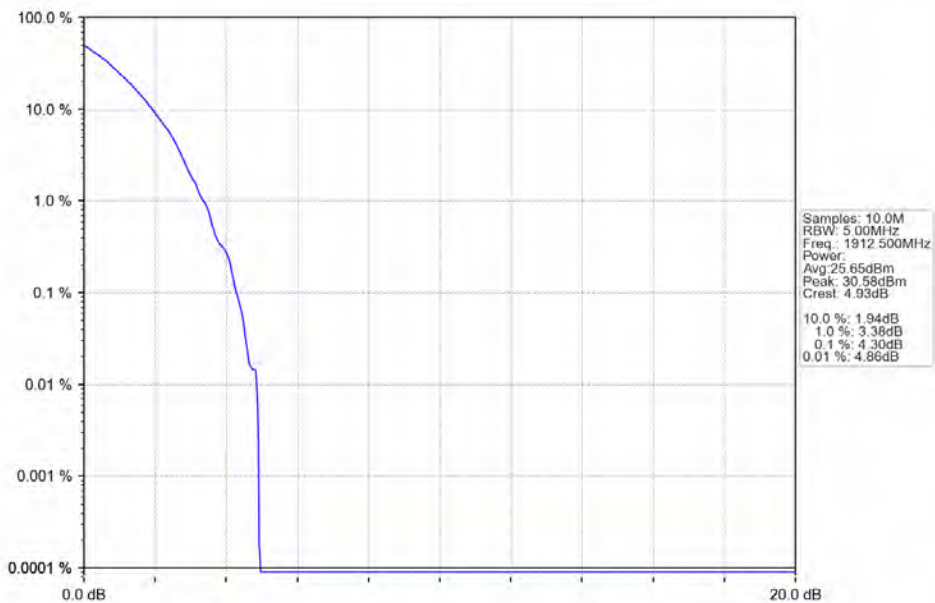
| 5G NR n25 SCS=15kHz SISO 40MHz NTV |                 |               |                         |      |     |       |         |
|------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                    |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 1870            | Outer Full    | 5.10                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer Full    | 5.14                    | /    | /   | <=13  | Pass    |
|                                    | 1895            | Outer Full    | 5.22                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                    | 1870            | Outer Full    | 5.76                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer Full    | 5.84                    | /    | /   | <=13  | Pass    |
|                                    | 1895            | Outer Full    | 5.80                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                  | 1870            | Outer Full    | 6.36                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer Full    | 6.46                    | /    | /   | <=13  | Pass    |
|                                    | 1895            | Outer Full    | 6.62                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                  | 1870            | Outer Full    | 6.68                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer Full    | 6.80                    | /    | /   | <=13  | Pass    |
|                                    | 1895            | Outer Full    | 6.82                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                 | 1870            | Outer Full    | 6.82                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer Full    | 6.74                    | /    | /   | <=13  | Pass    |
|                                    | 1895            | Outer Full    | 6.80                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                       | 1870            | Outer Full    | 8.40                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer Full    | 8.48                    | /    | /   | <=13  | Pass    |
|                                    | 1895            | Outer Full    | 8.46                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                     | 1870            | Outer Full    | 8.40                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer Full    | 8.42                    | /    | /   | <=13  | Pass    |
|                                    | 1895            | Outer Full    | 8.42                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                     | 1870            | Outer Full    | 8.44                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer Full    | 8.58                    | /    | /   | <=13  | Pass    |
|                                    | 1895            | Outer Full    | 8.64                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                    | 1870            | Outer Full    | 8.62                    | /    | /   | <=13  | Pass    |
|                                    | 1882.5          | Outer Full    | 8.56                    | /    | /   | <=13  | Pass    |
|                                    | 1895            | Outer Full    | 8.58                    | /    | /   | <=13  | Pass    |

## 4.2 Test Graph

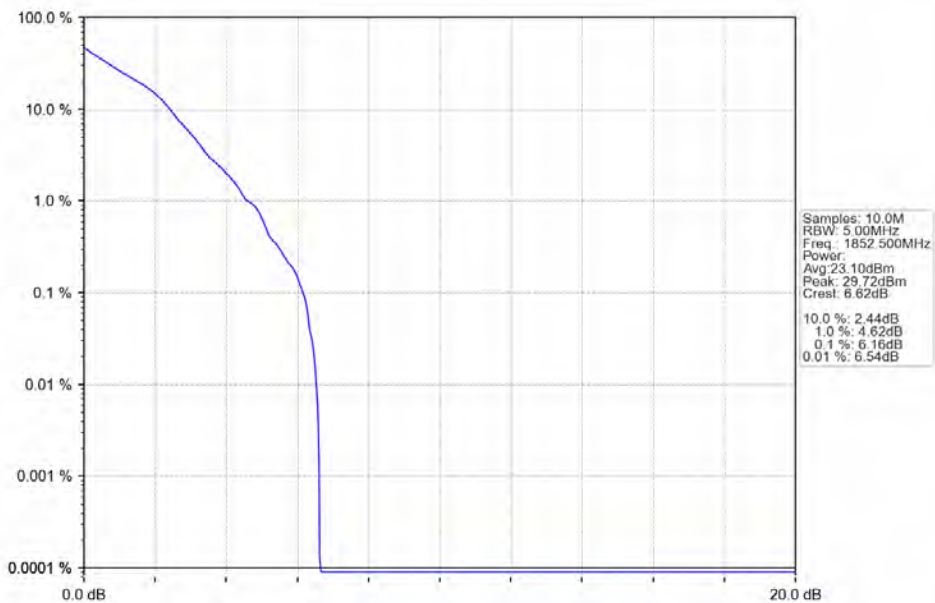
### 4.2.1 15k\_SISO\_5MHz\_NTNV



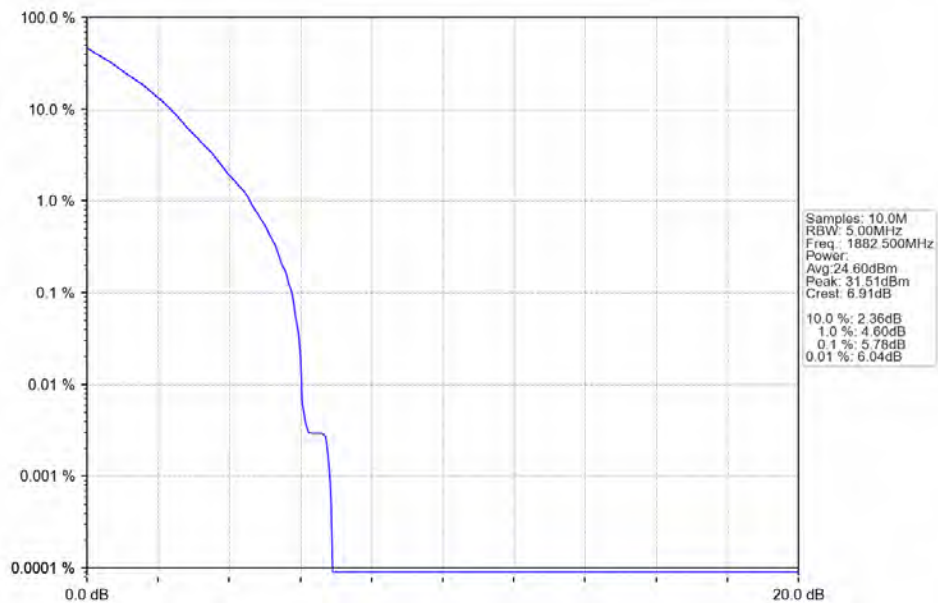
n25 15kHz SISO NTN 5MHz DFT-s-OFDM PI/2 BPSK 1912.5MHz Outer Full Ant1



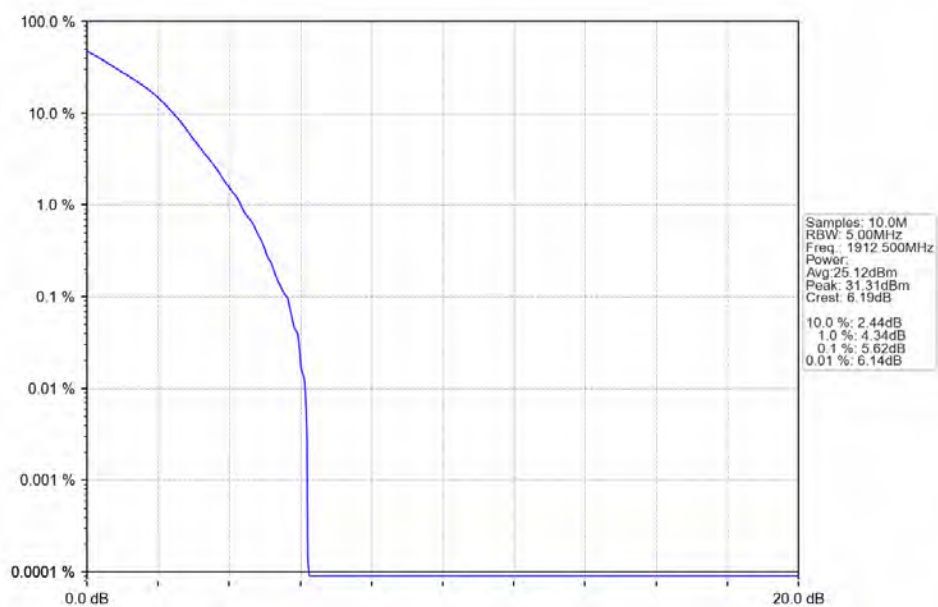
n25 15kHz SISO NTN 5MHz DFT-s-OFDM QPSK 1852.5MHz Outer Full Ant1



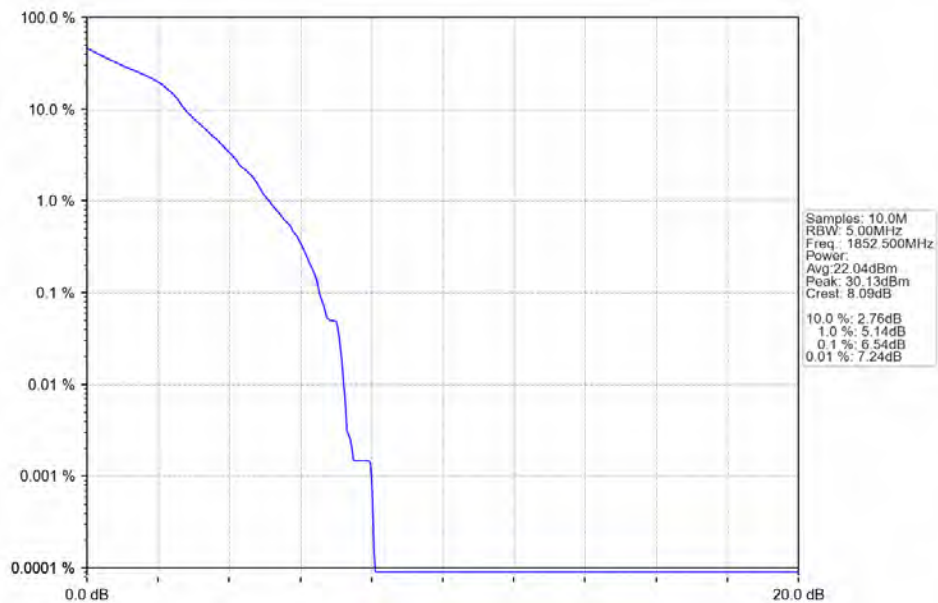
n25 15kHz SISO NTN 5MHz DFT-s-OFDM QPSK 1882.5MHz Outer Full Ant1



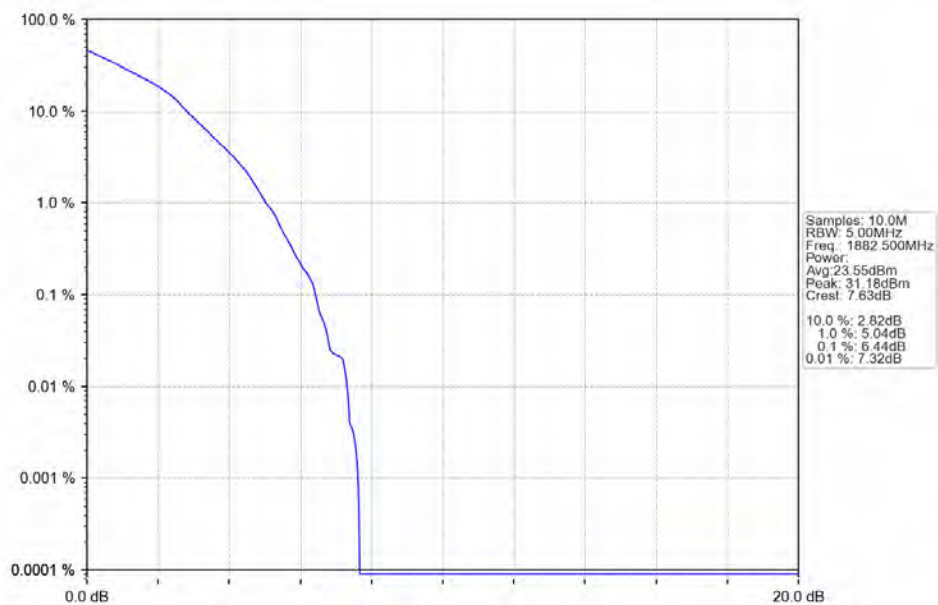
n25 15kHz SISO NTN 5MHz DFT-s-OFDM QPSK 1912.5MHz Outer Full Ant1



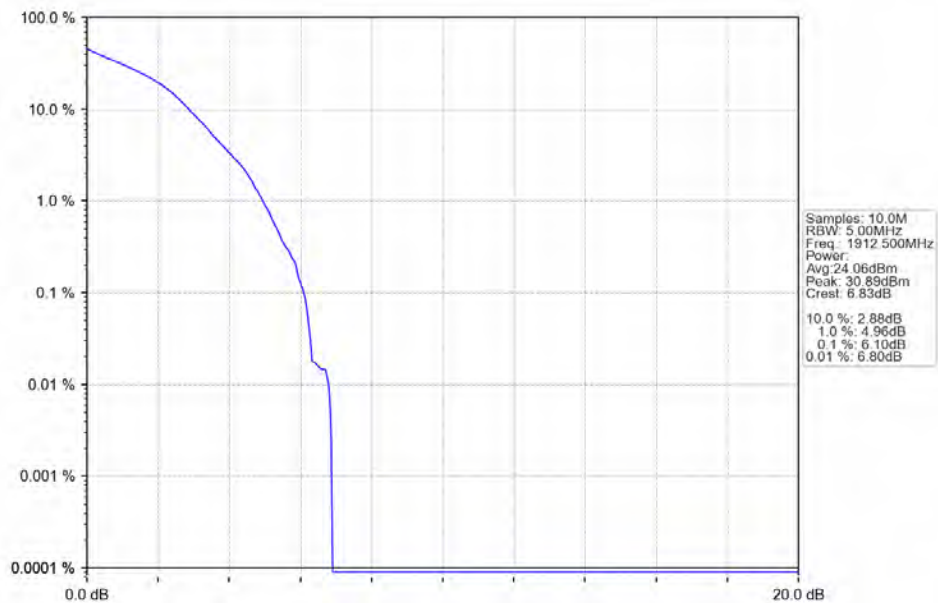
n25 15kHz SISO NTN 5MHz DFT-s-OFDM 16 QAM 1852.5MHz Outer Full Ant1



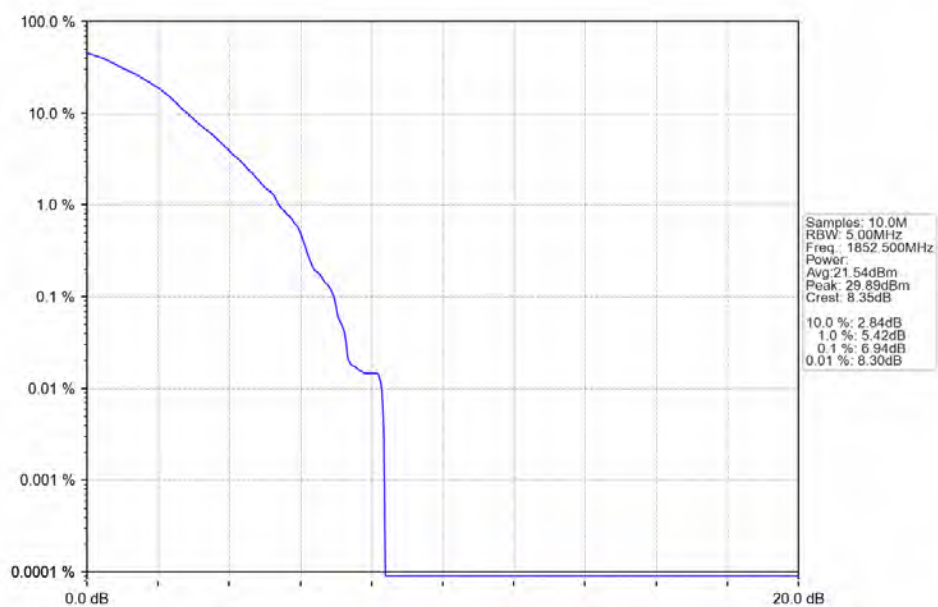
n25 15kHz SISO NTN 5MHz DFT-s-OFDM 16 QAM 1882.5MHz Outer Full Ant1



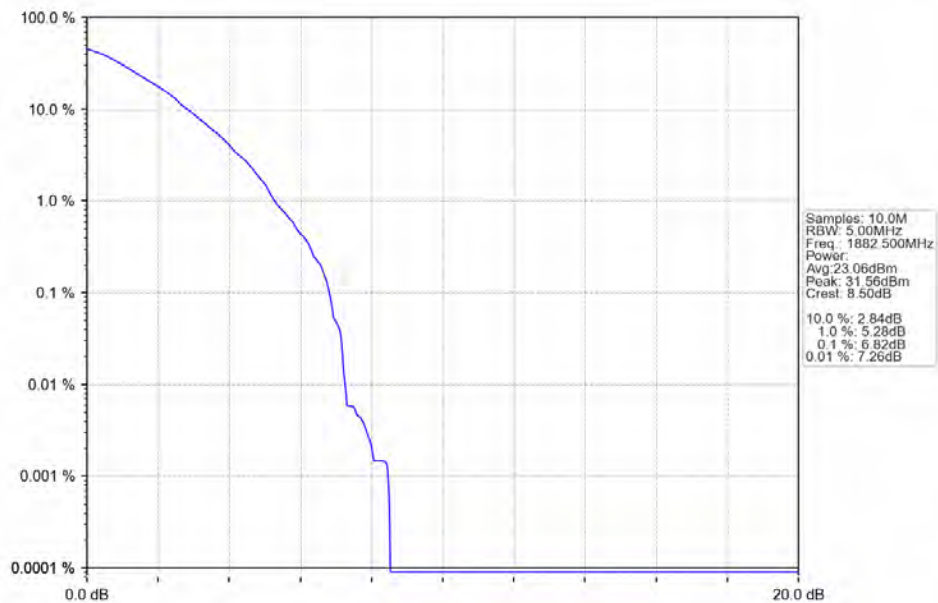
n25 15kHz SISO NTN 5MHz DFT-s-OFDM 16 QAM 1912.5MHz Outer Full Ant1



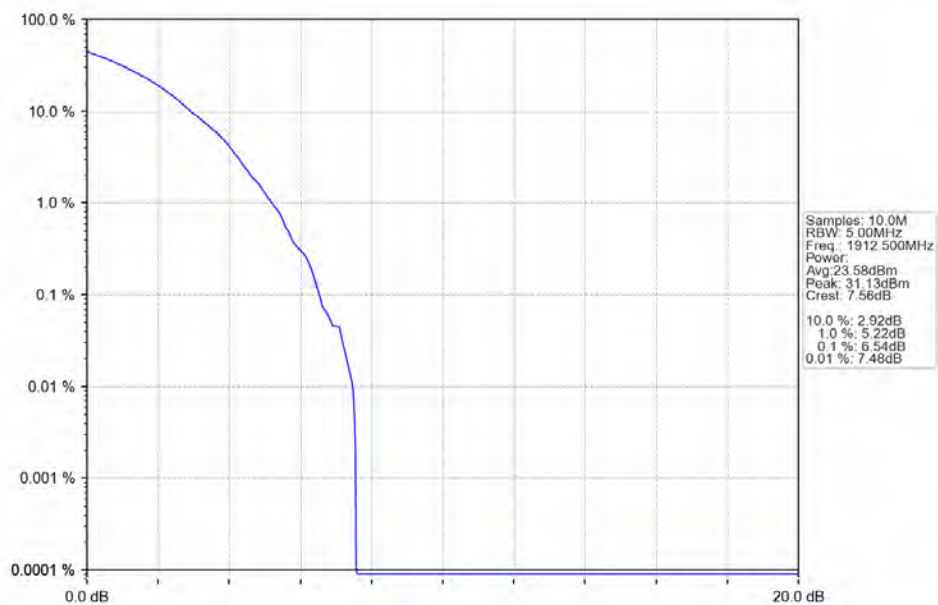
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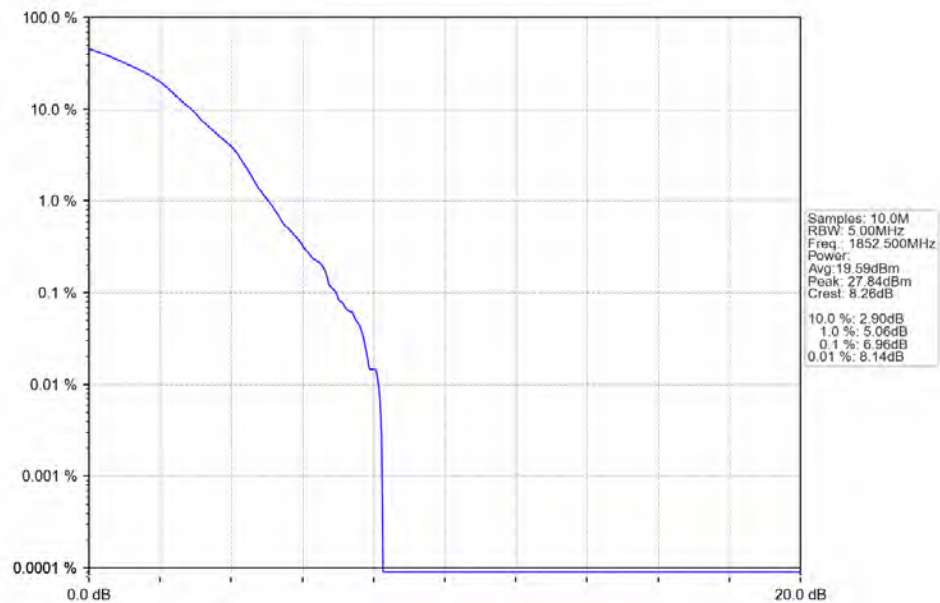
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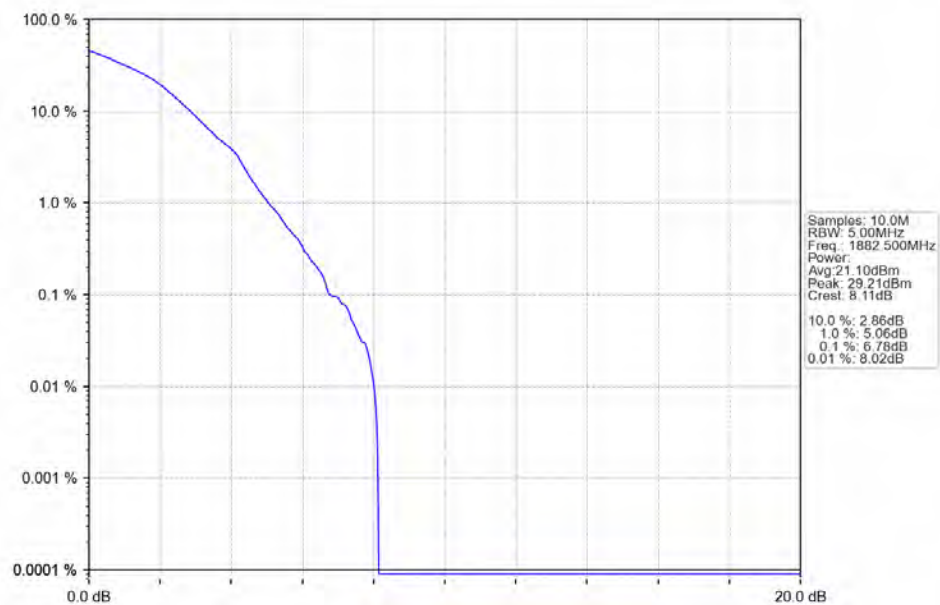
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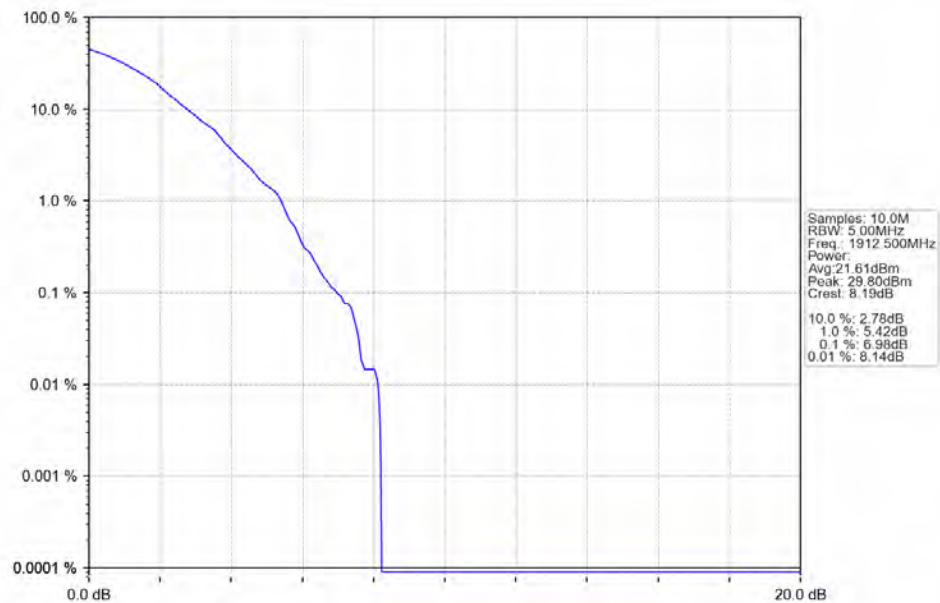
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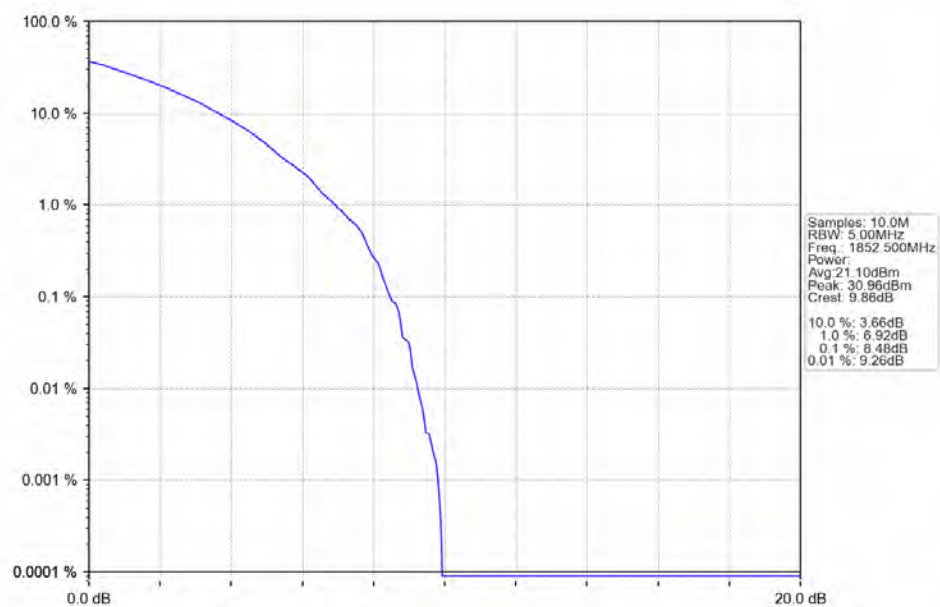
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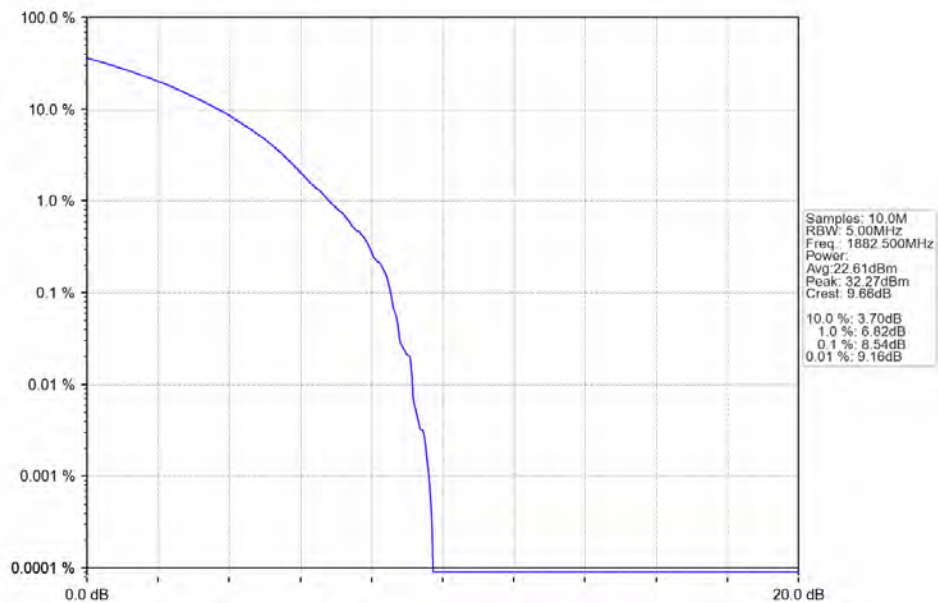
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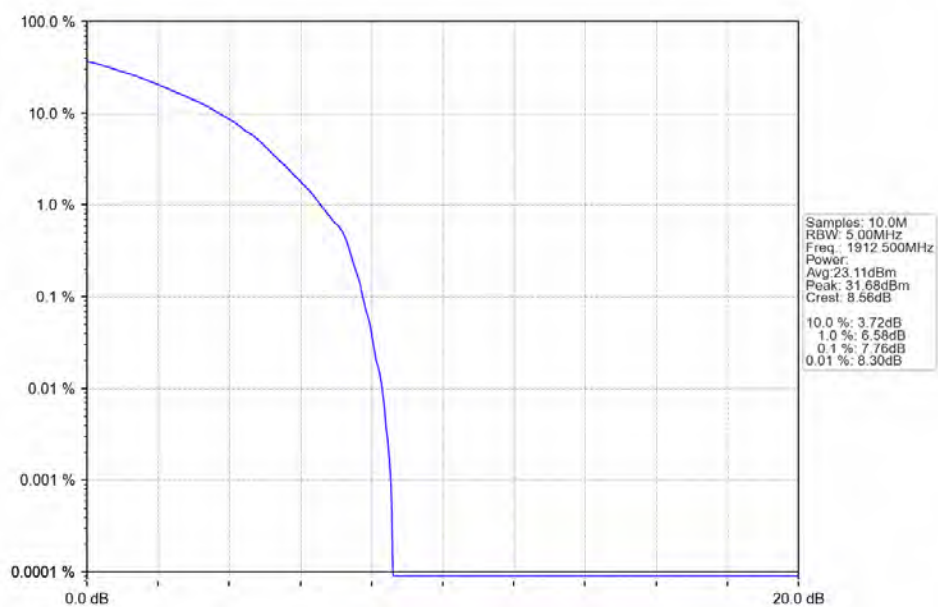
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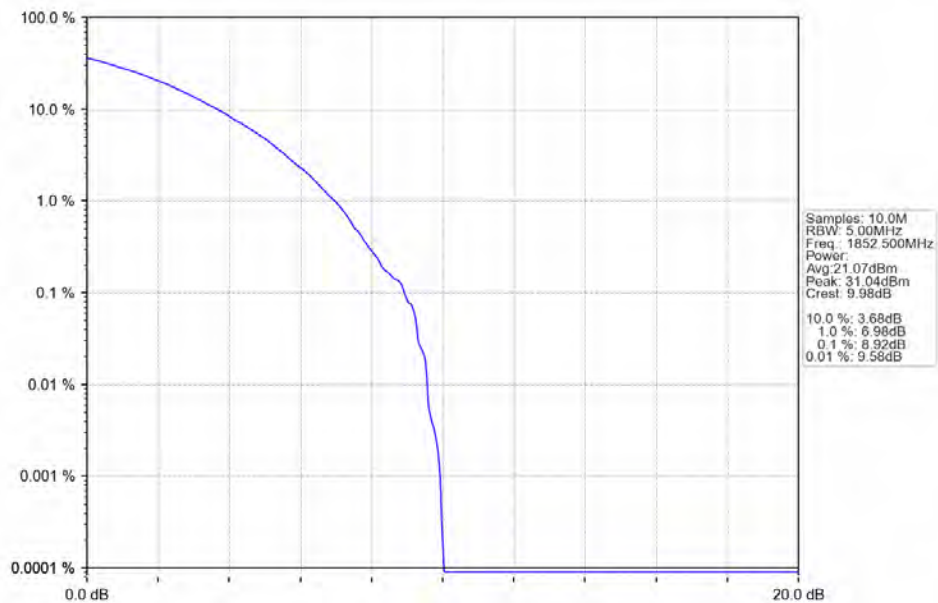
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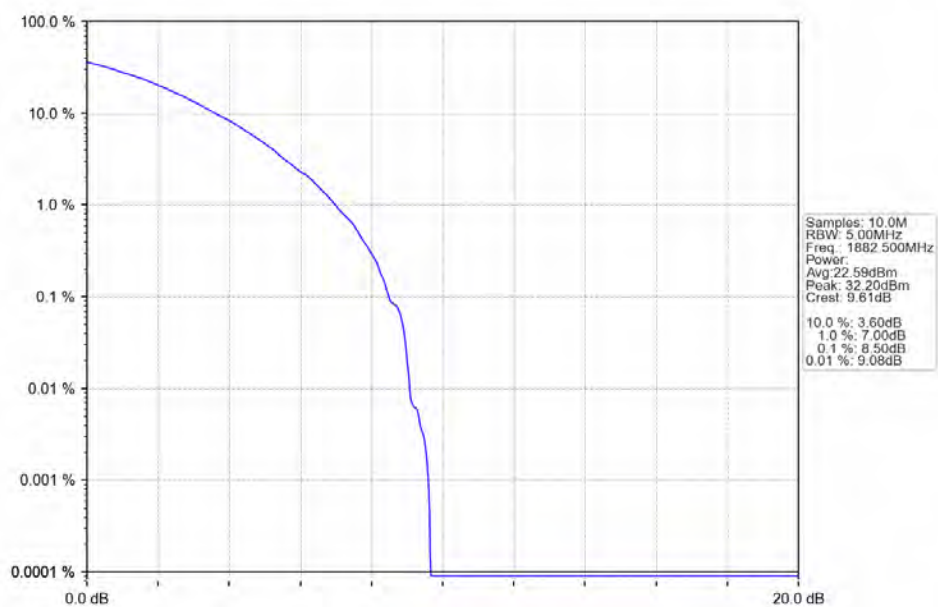
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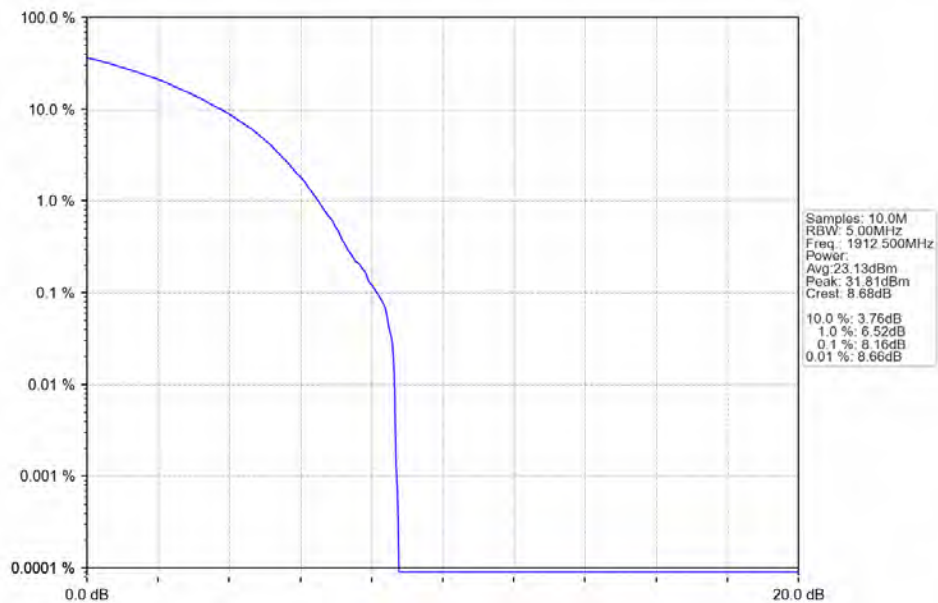
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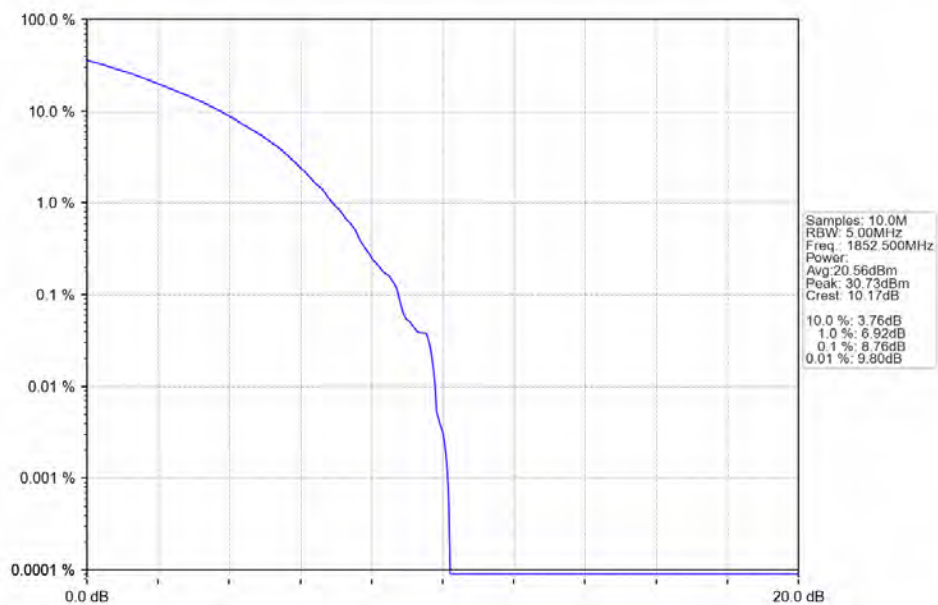
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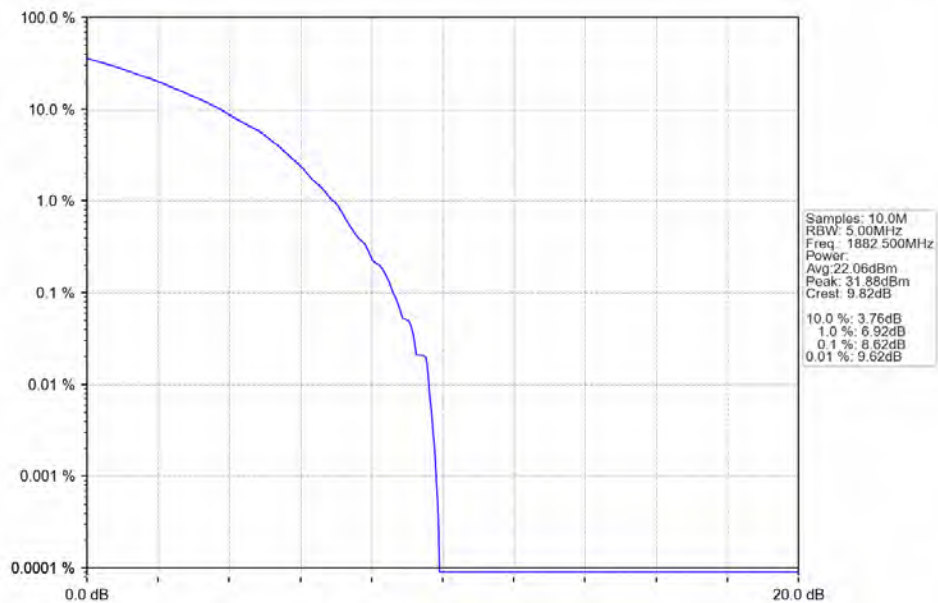
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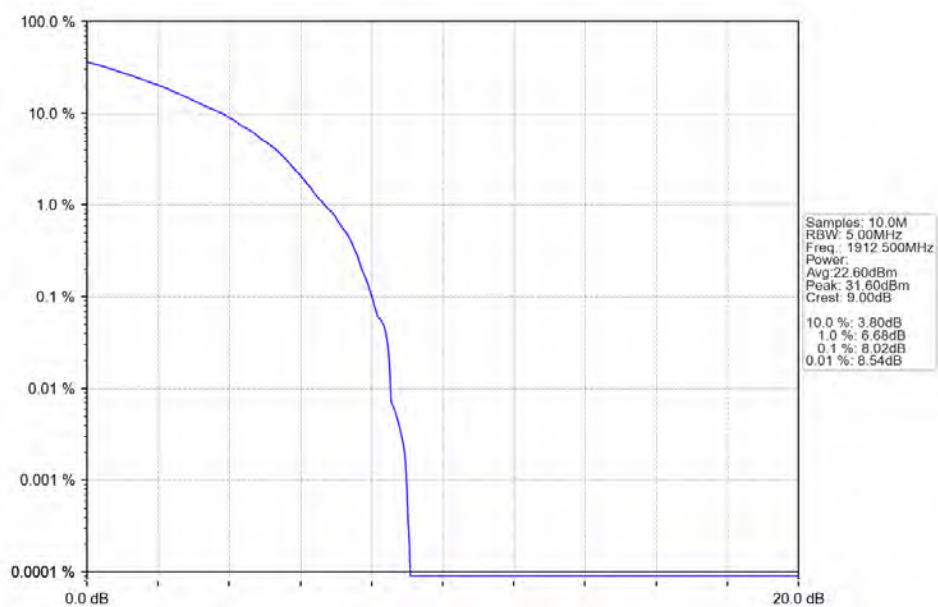
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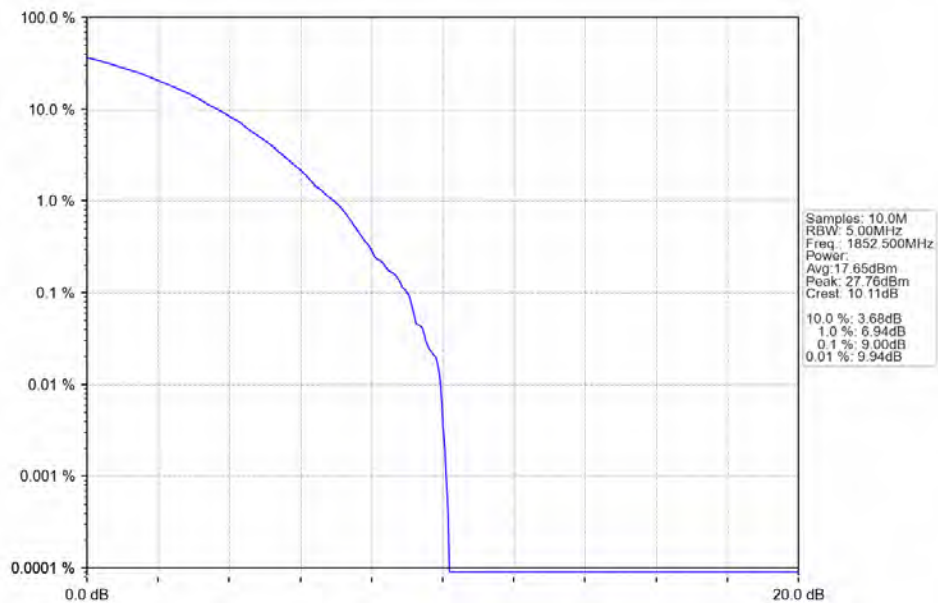
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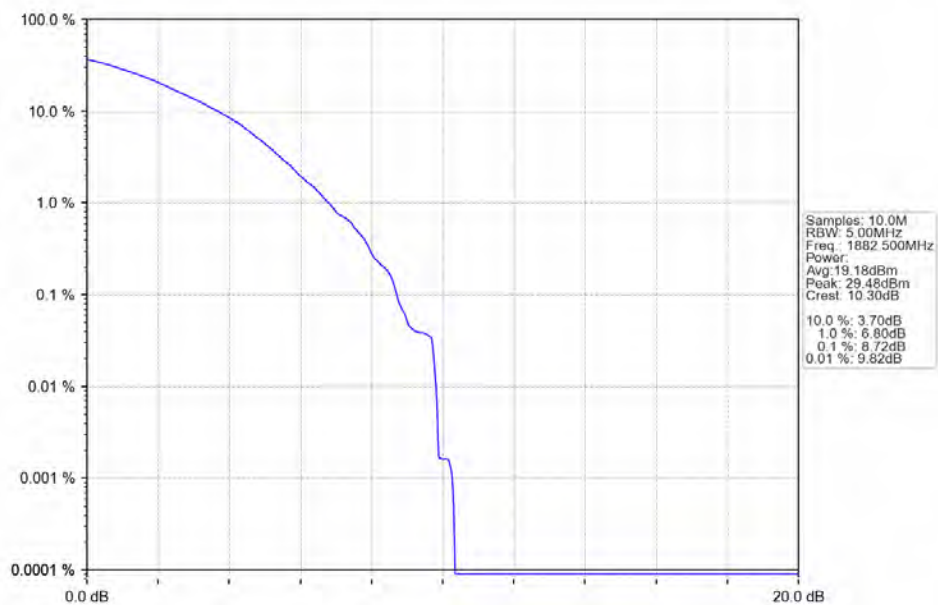
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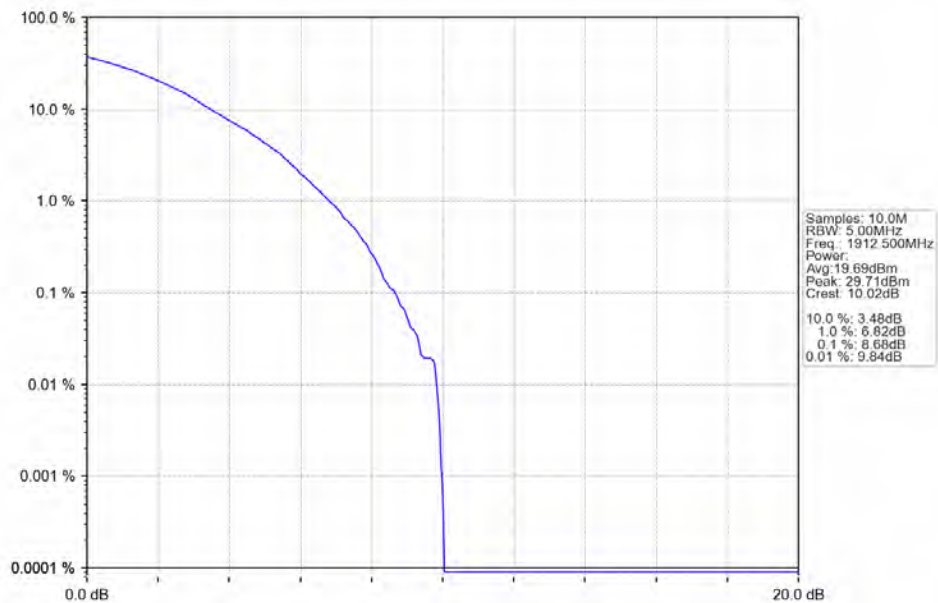
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n25 15kHz SISO NTN 5MHz CP-OFDM 256 QAM 1882.5MHz Outer Full Ant1

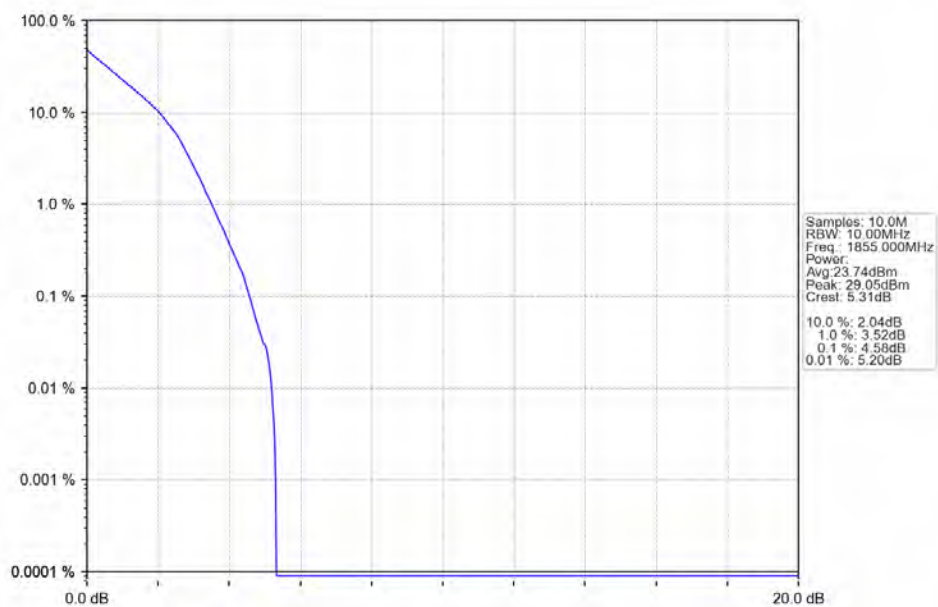


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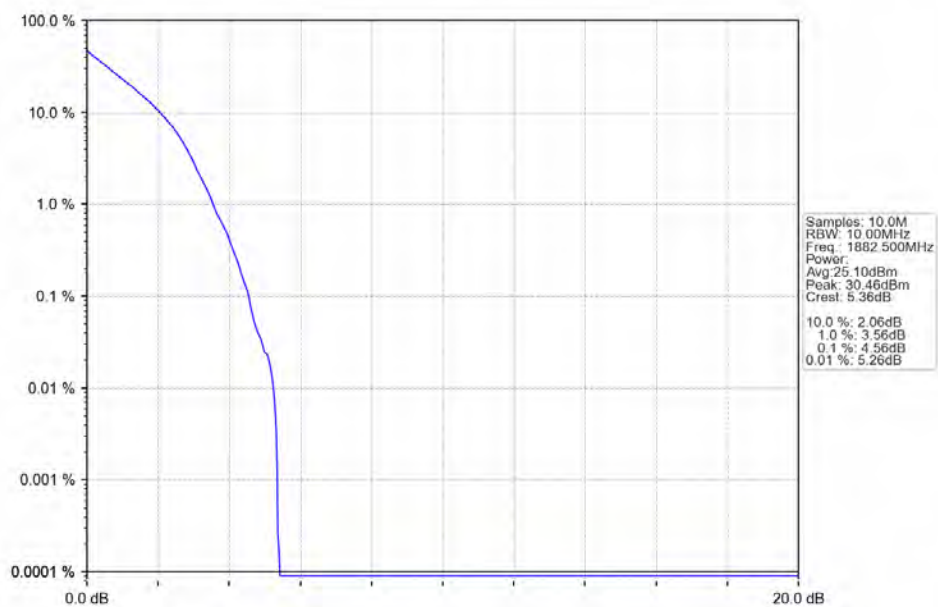


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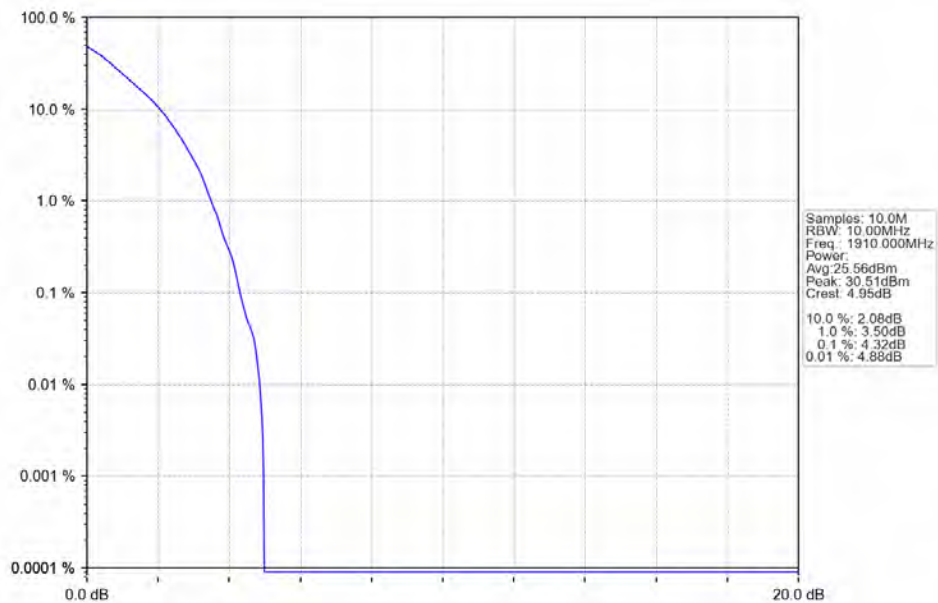
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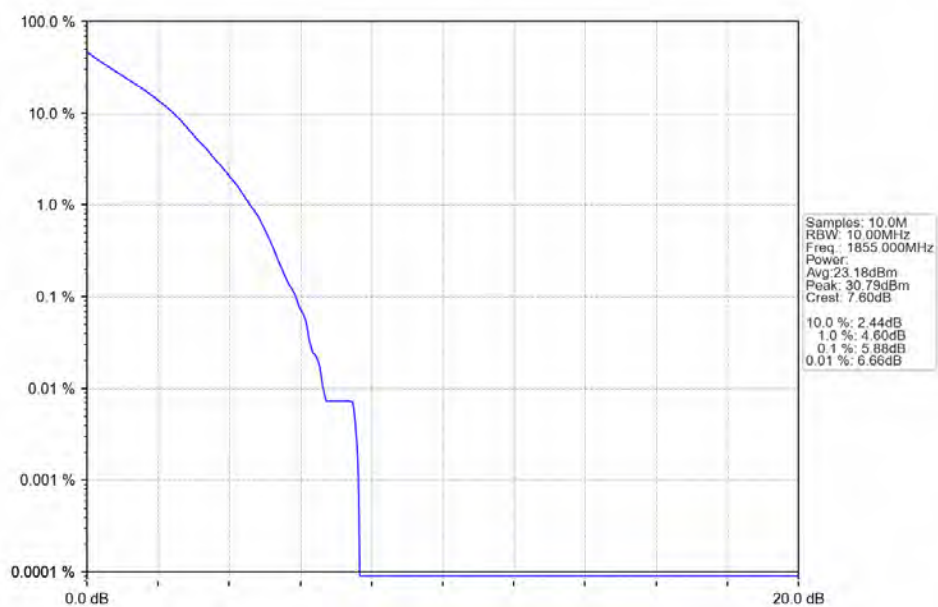
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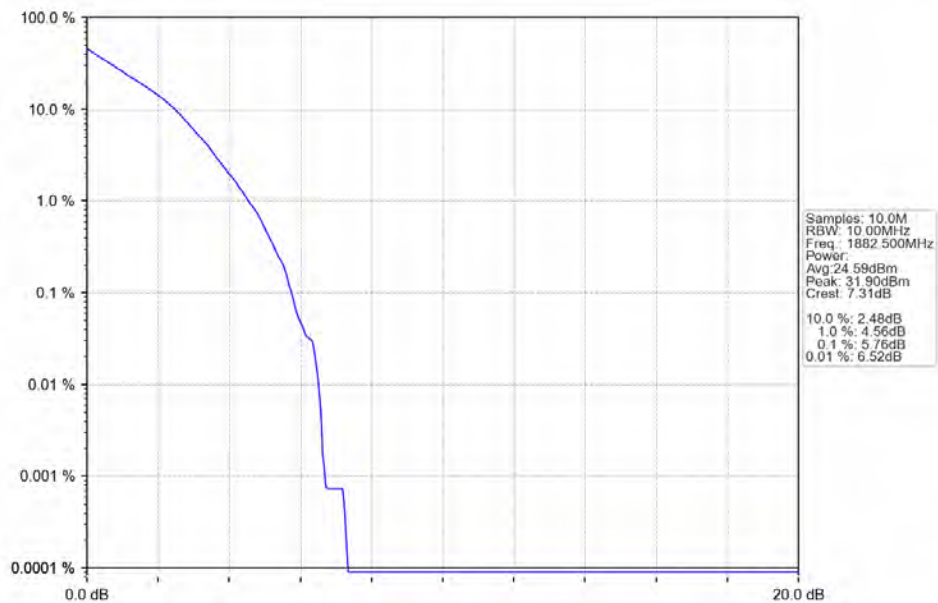
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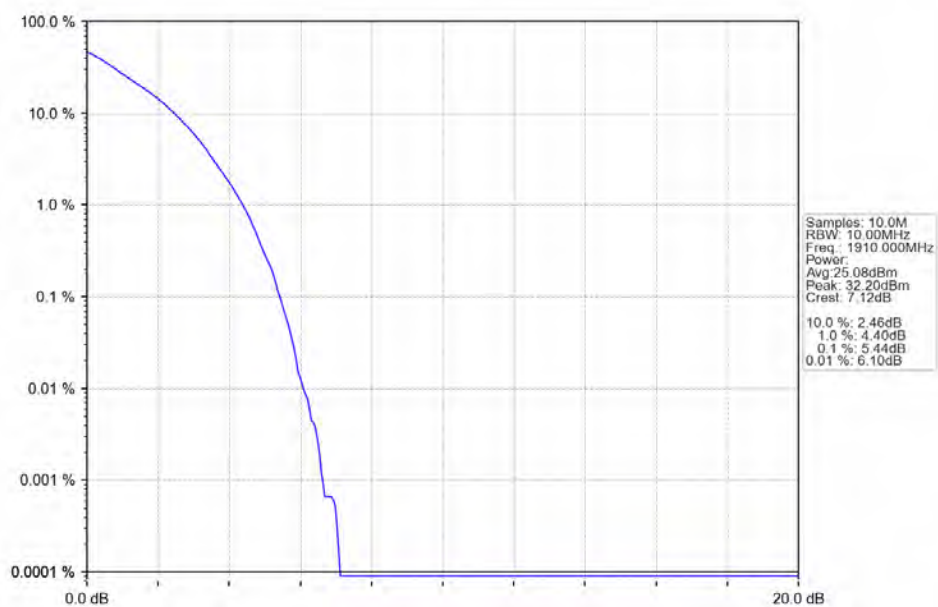
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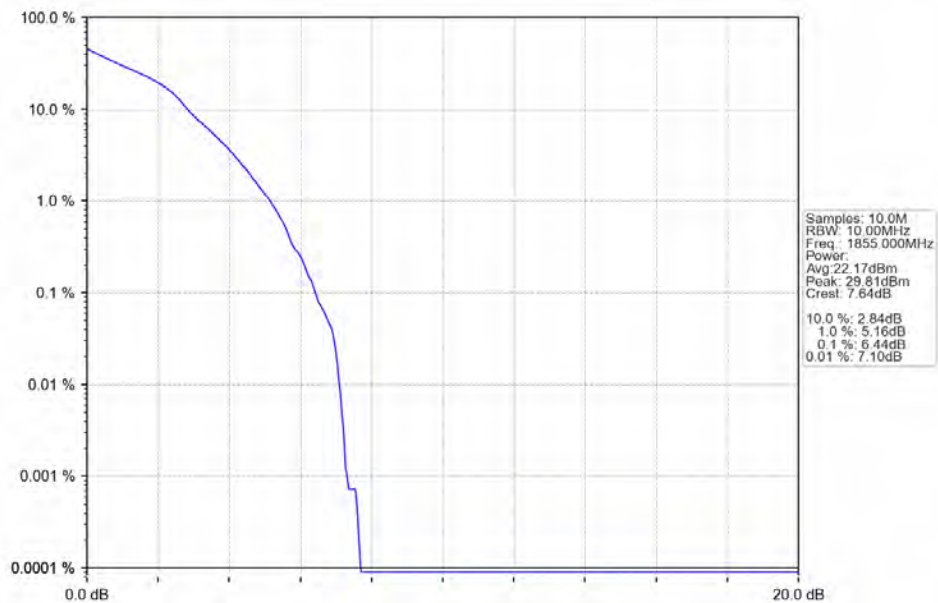
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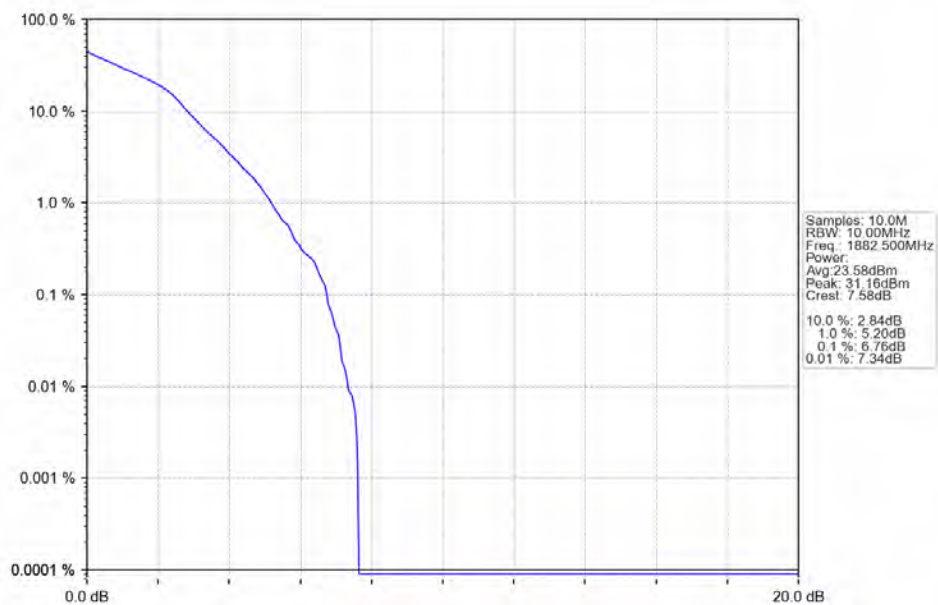
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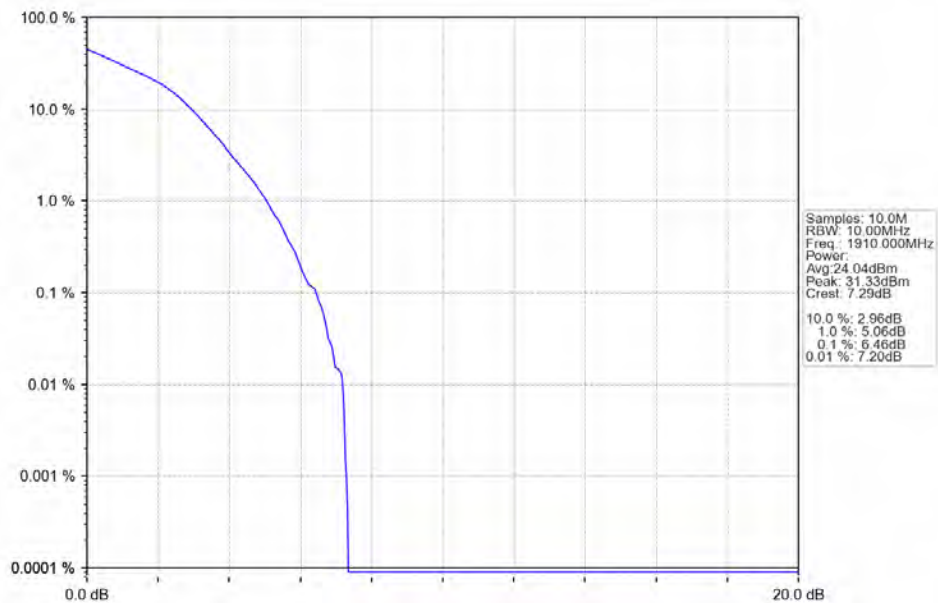
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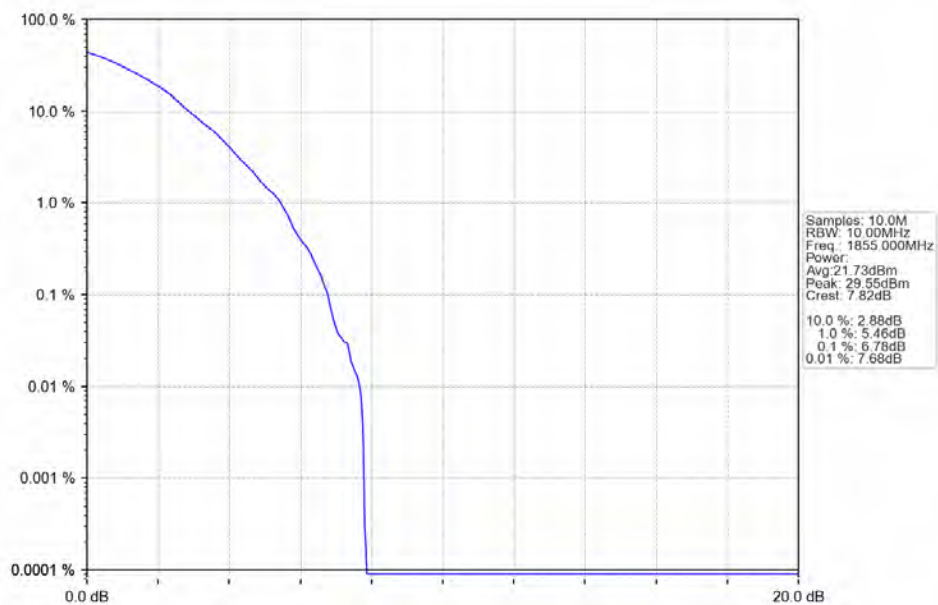
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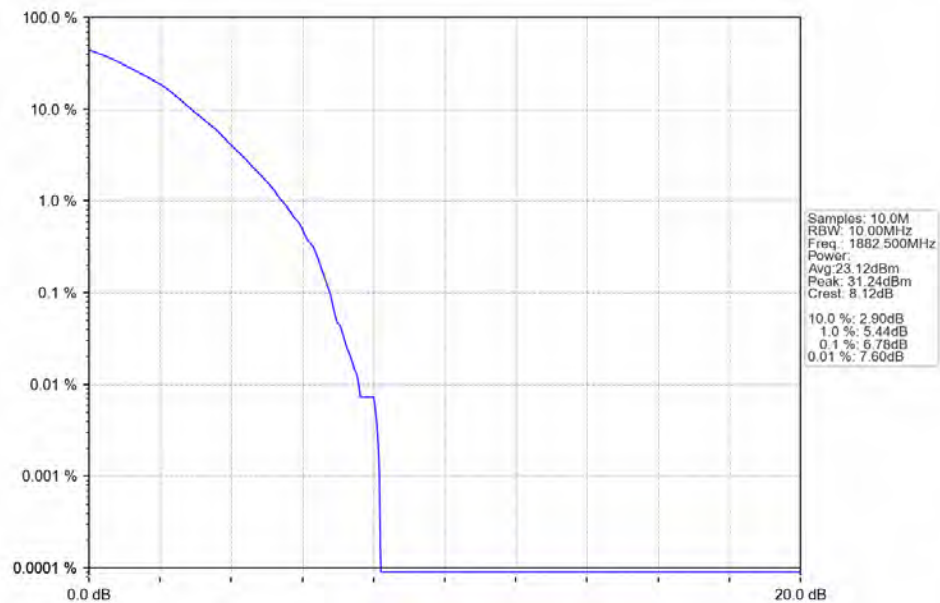
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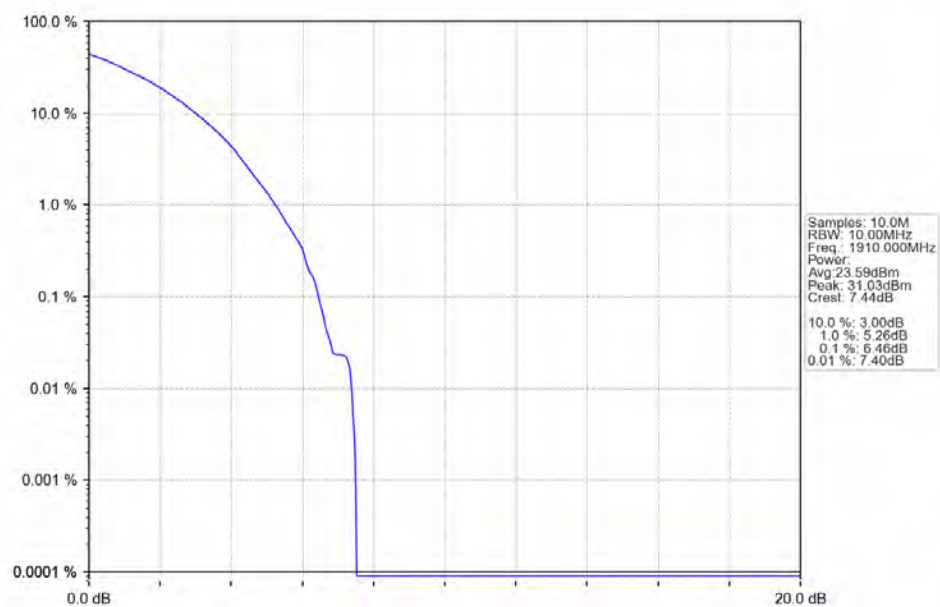
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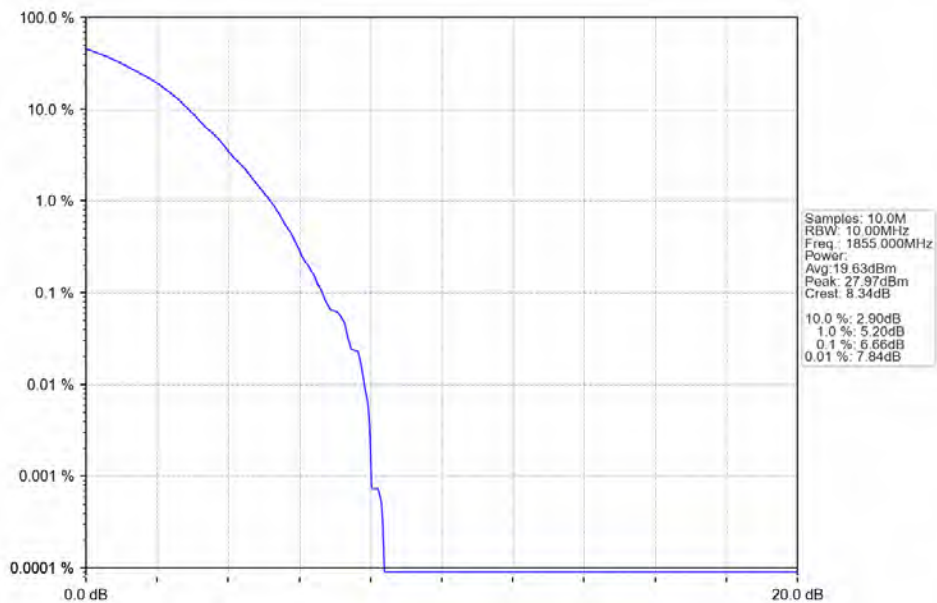
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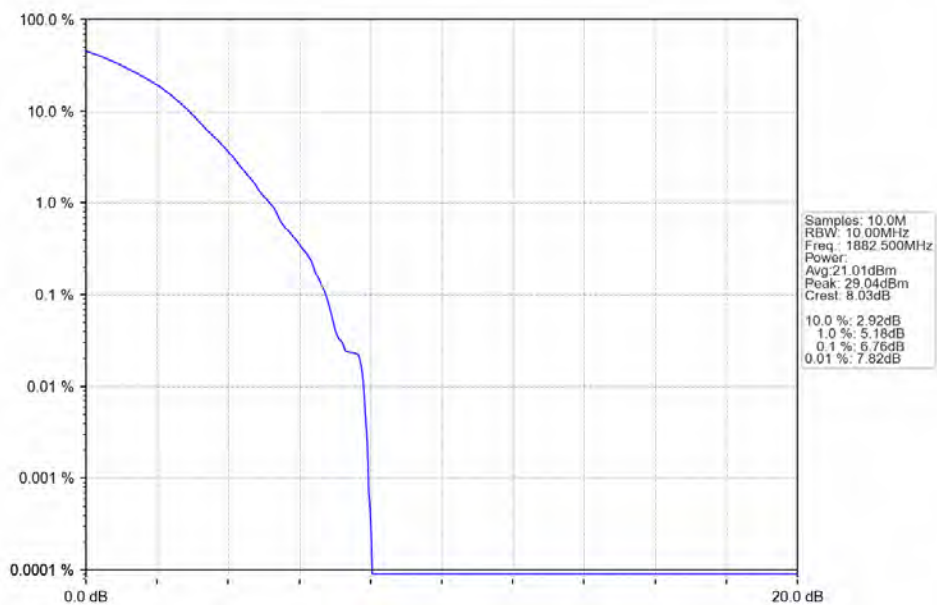
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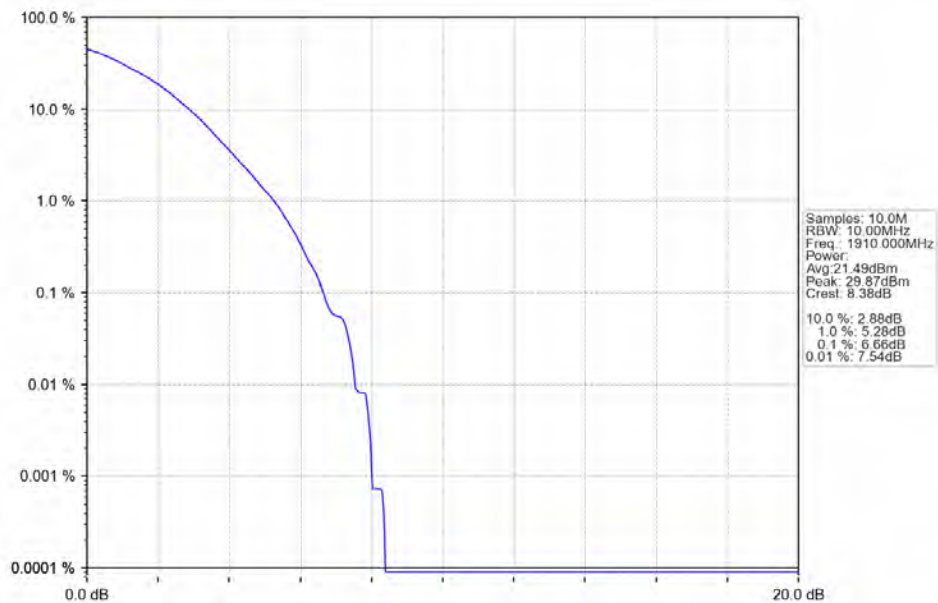
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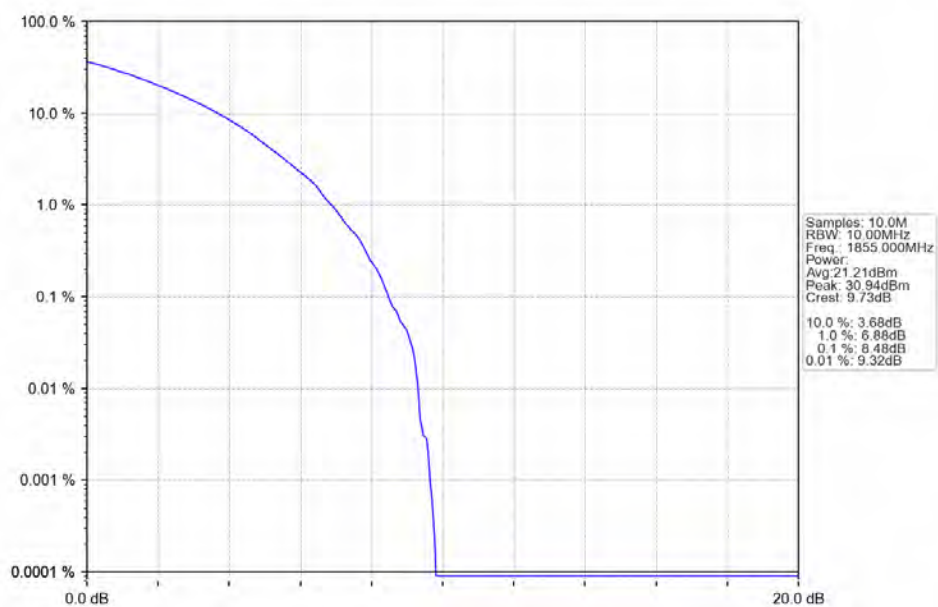
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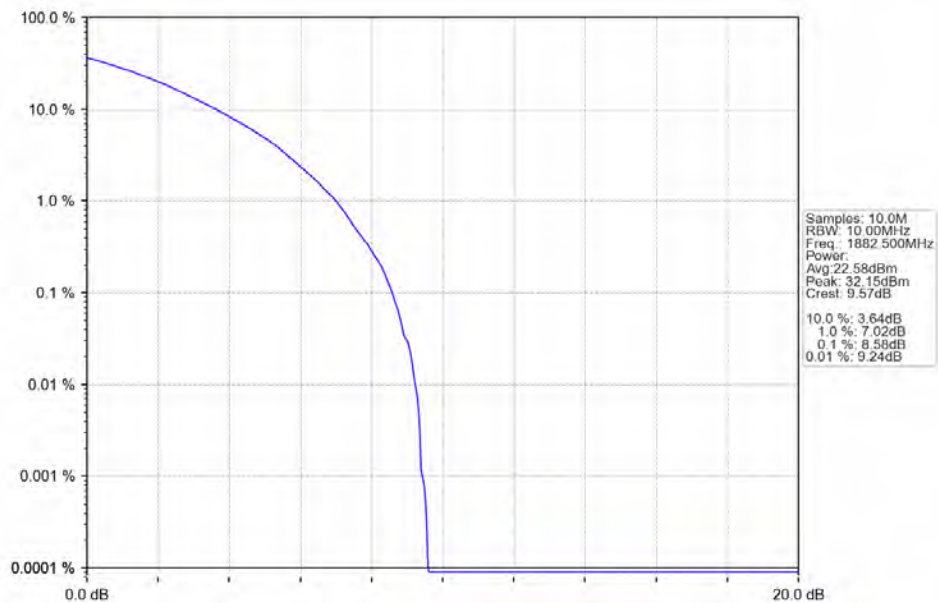
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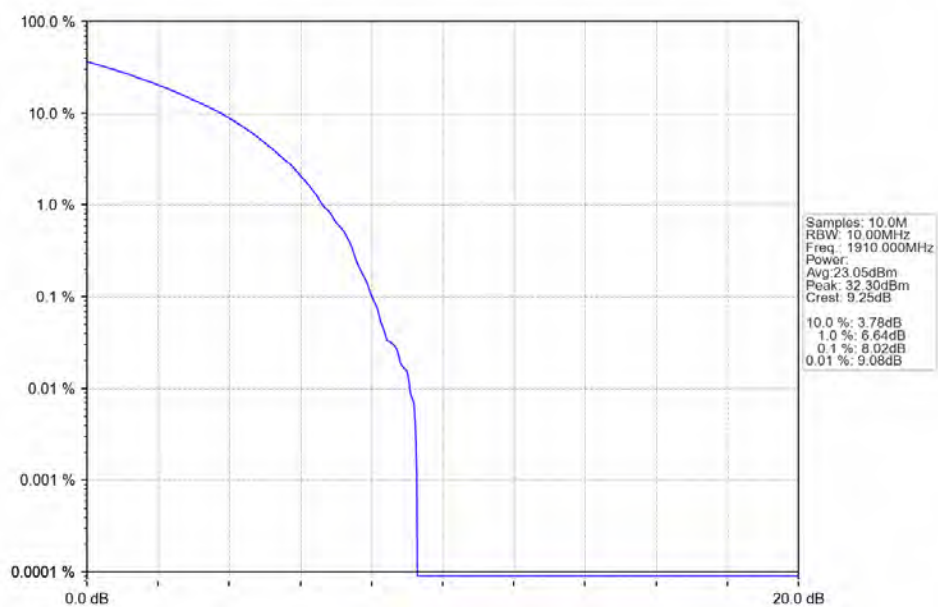
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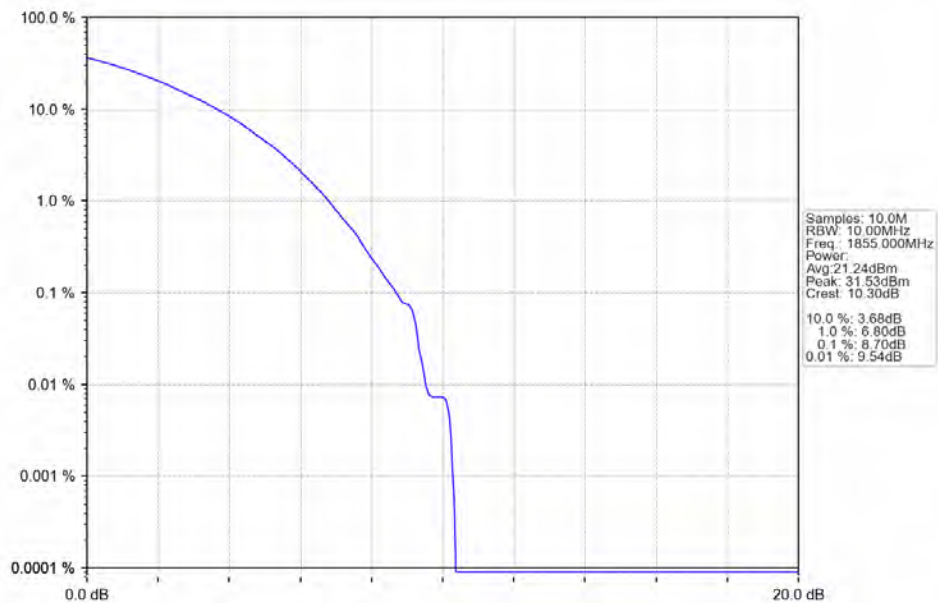
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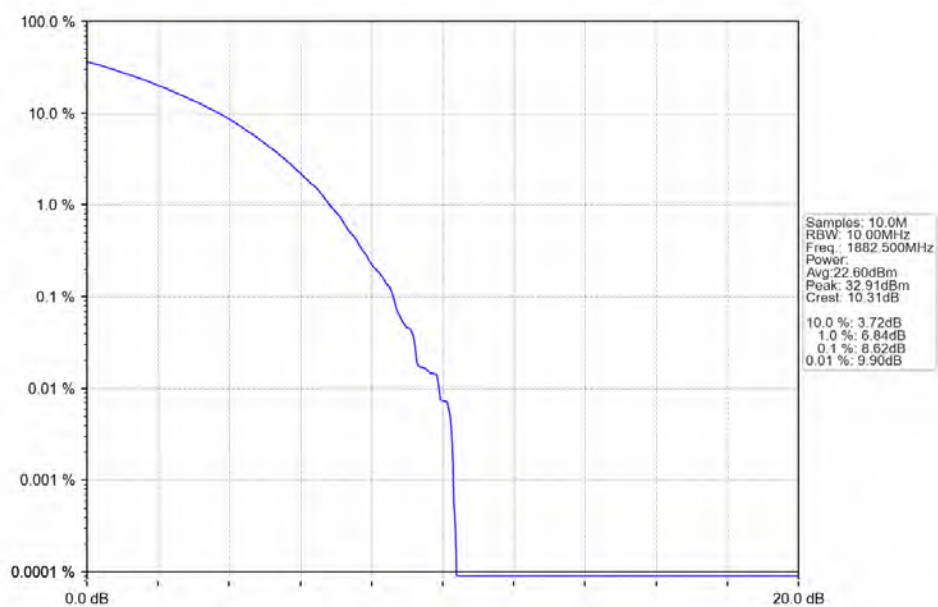
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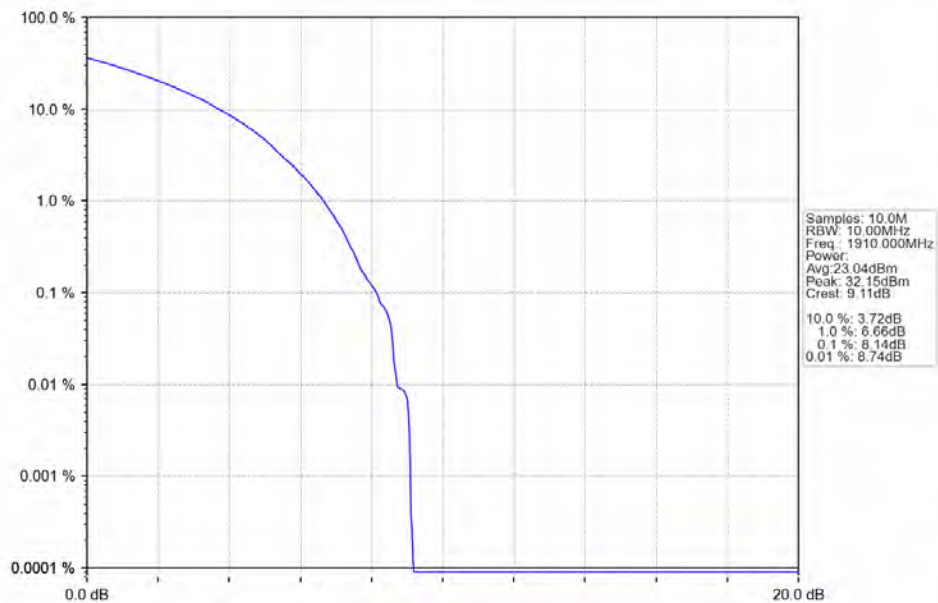
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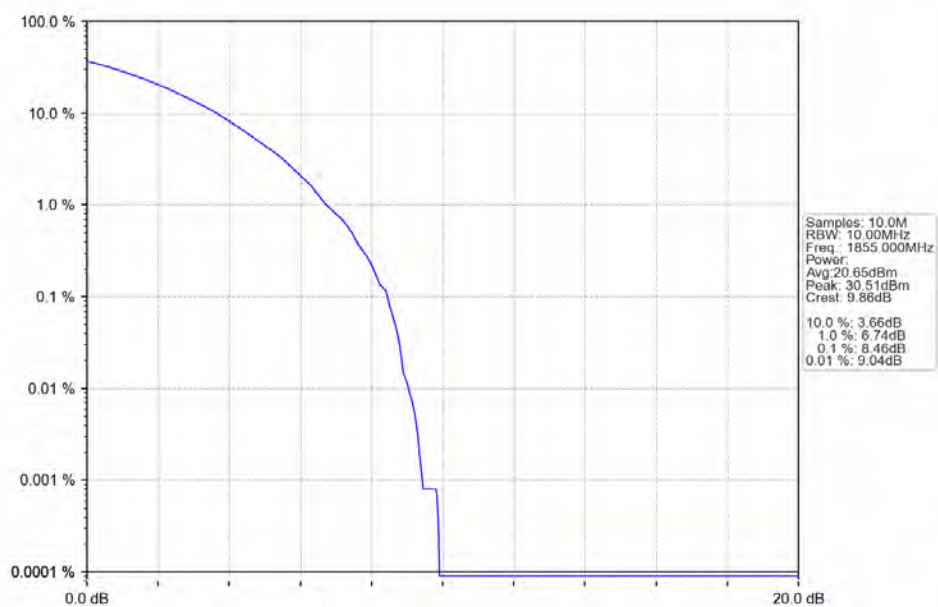
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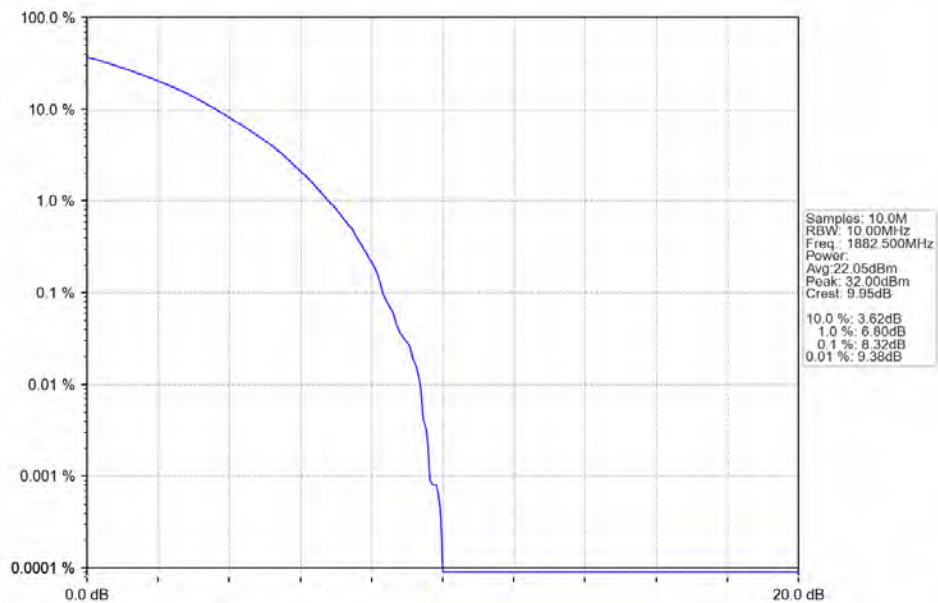
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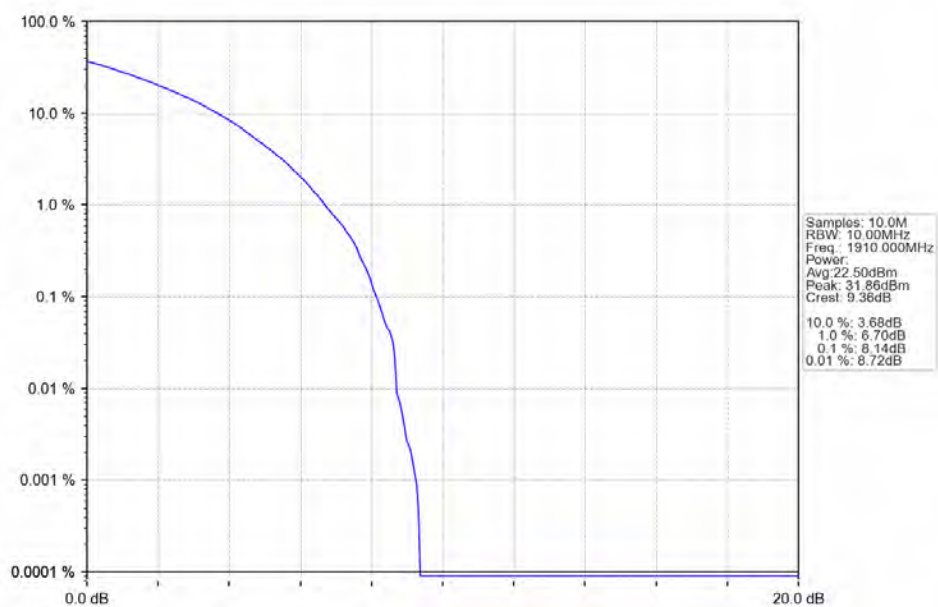
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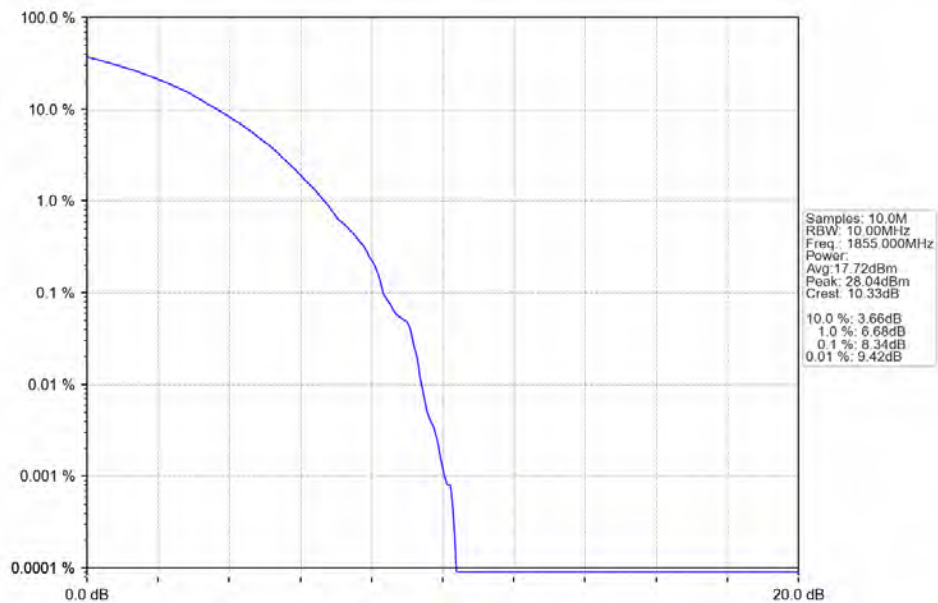
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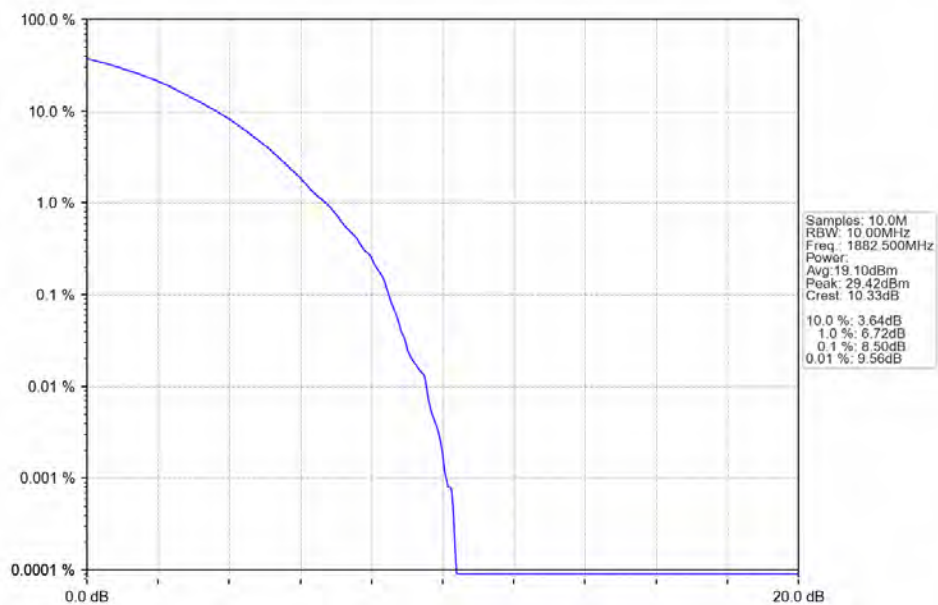
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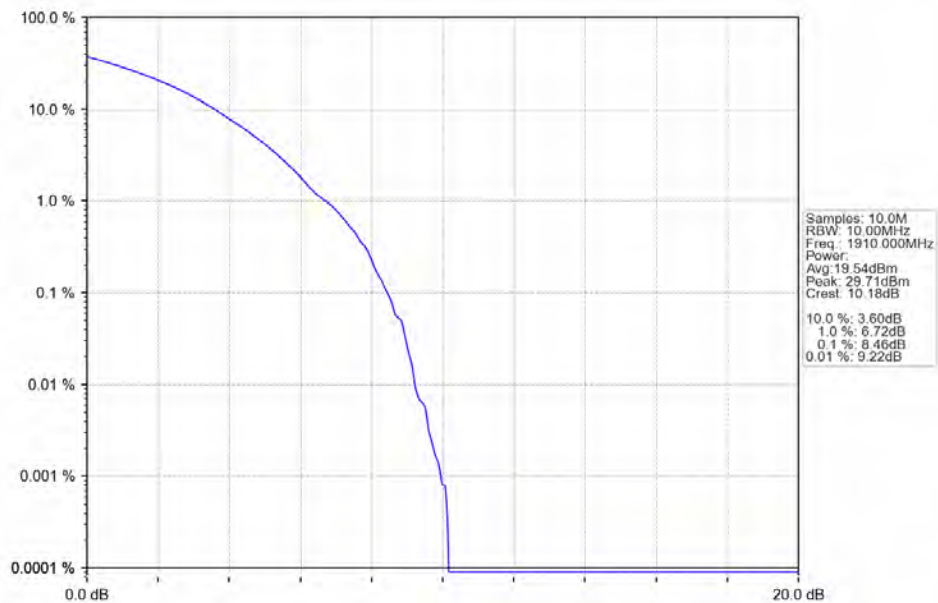
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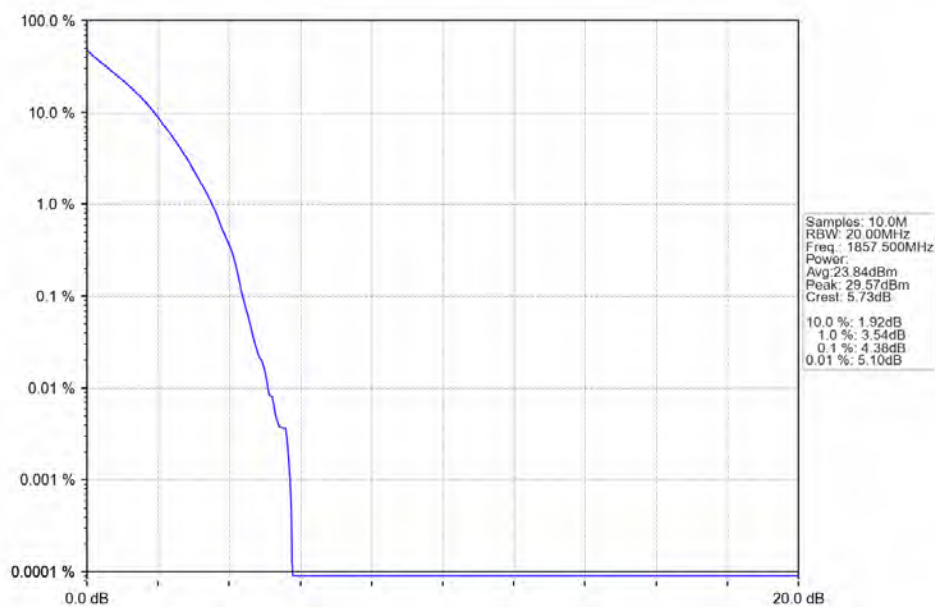


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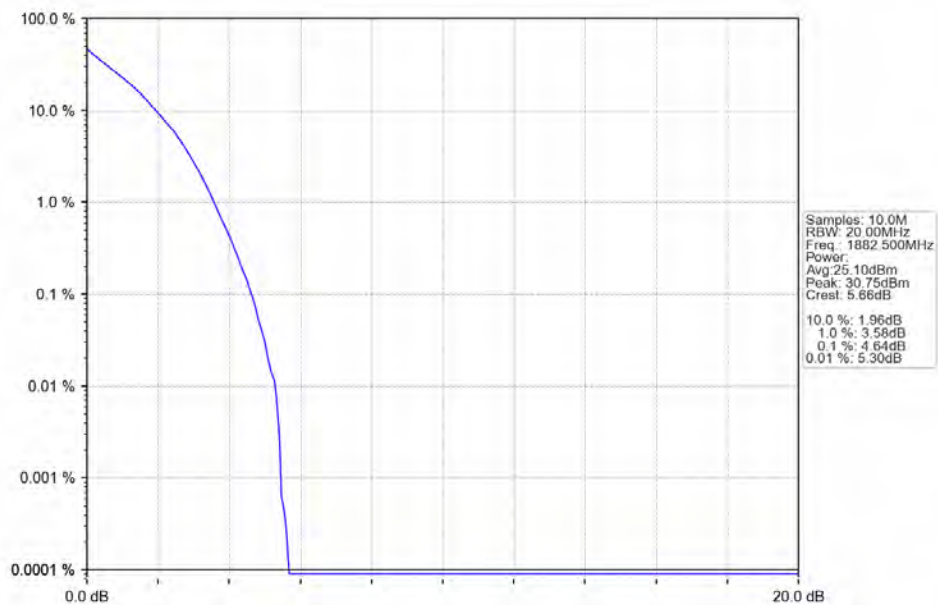


## 4.2.3 15k\_SISO\_15MHz\_NTNV

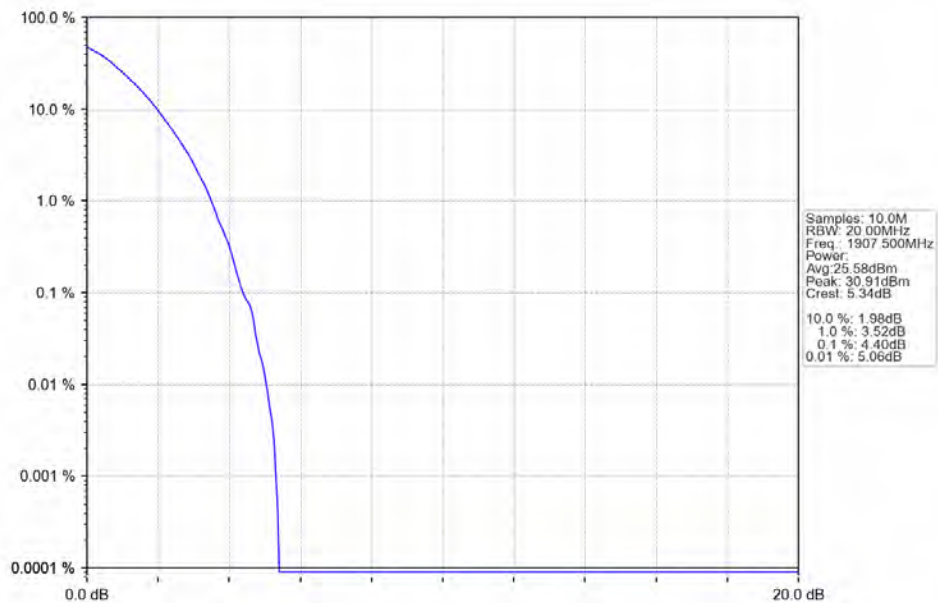
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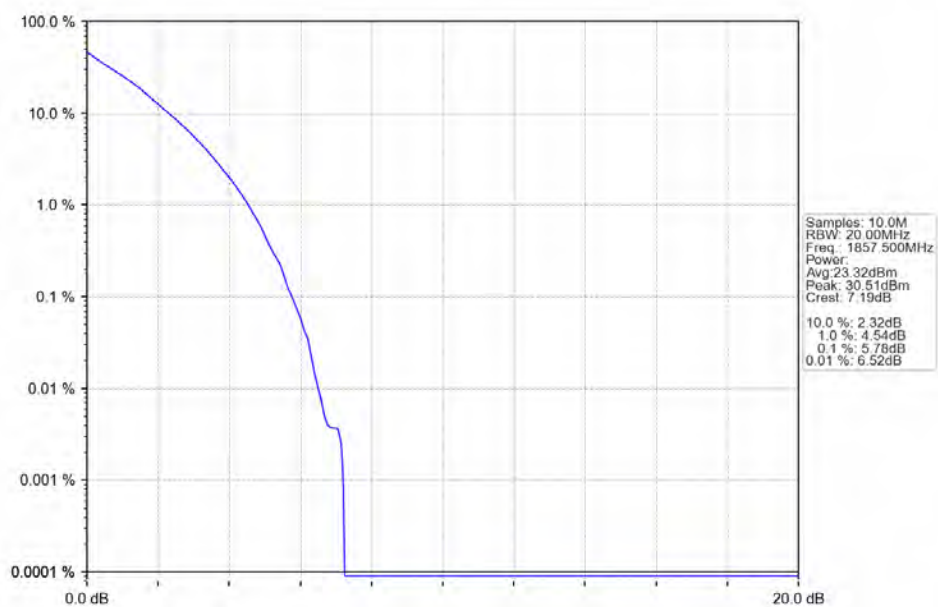
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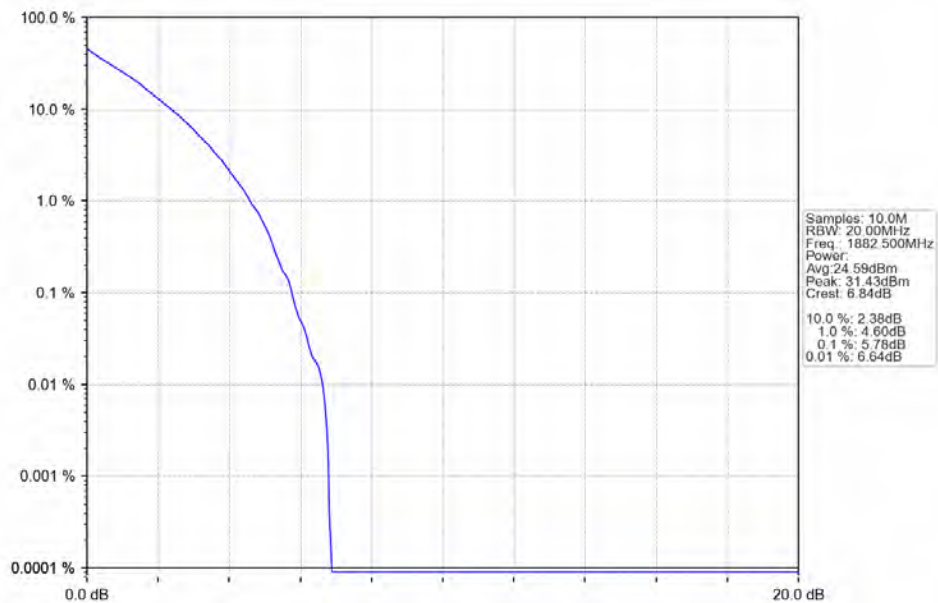
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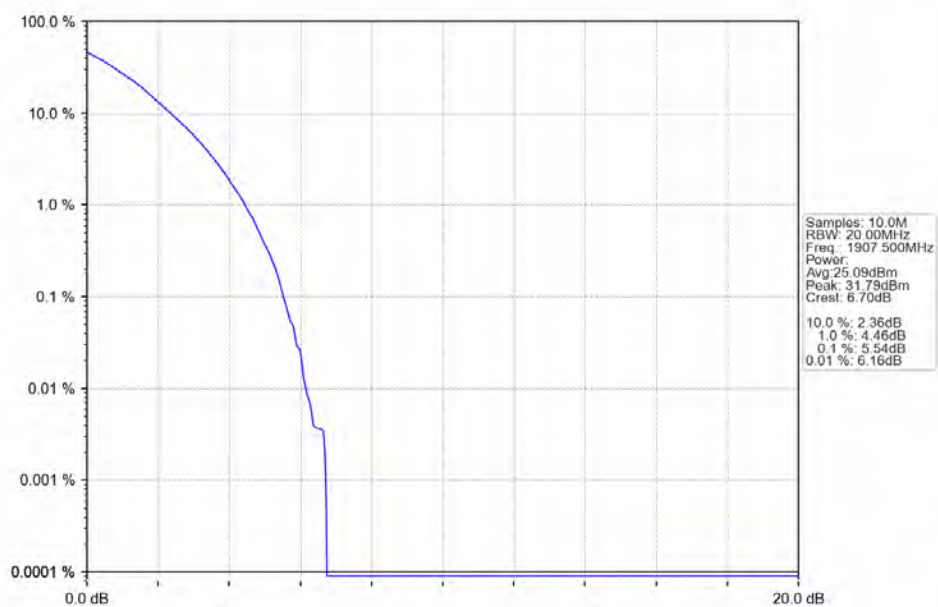
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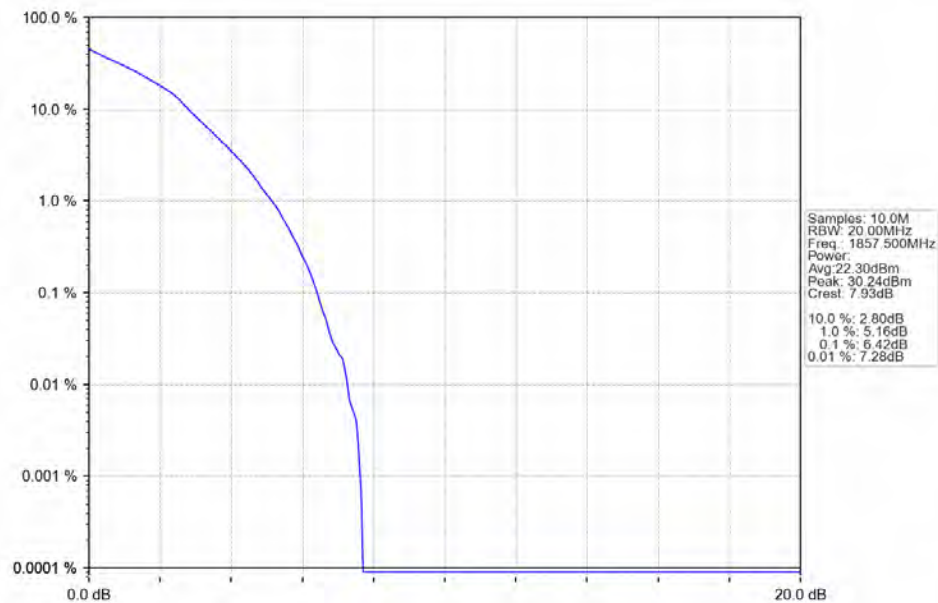
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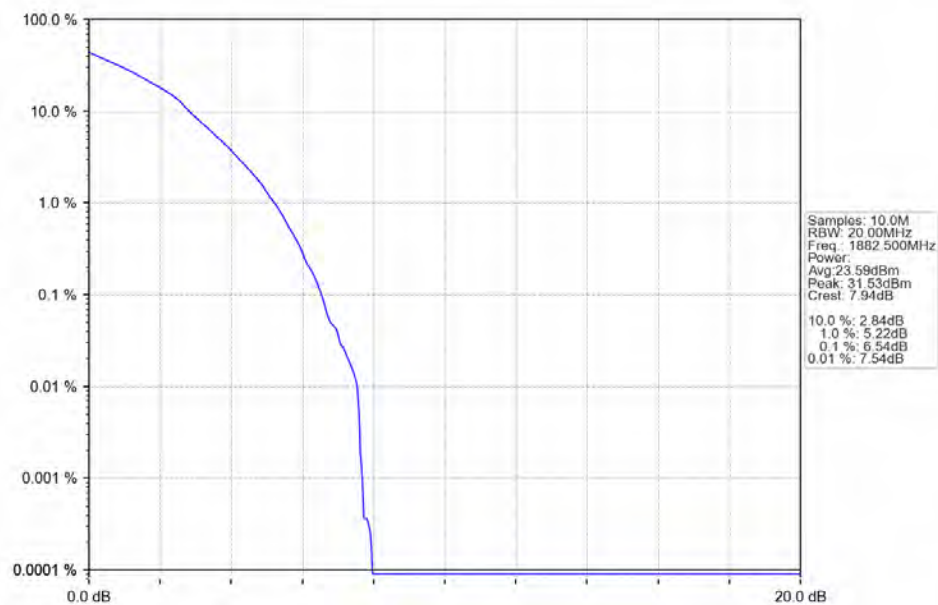
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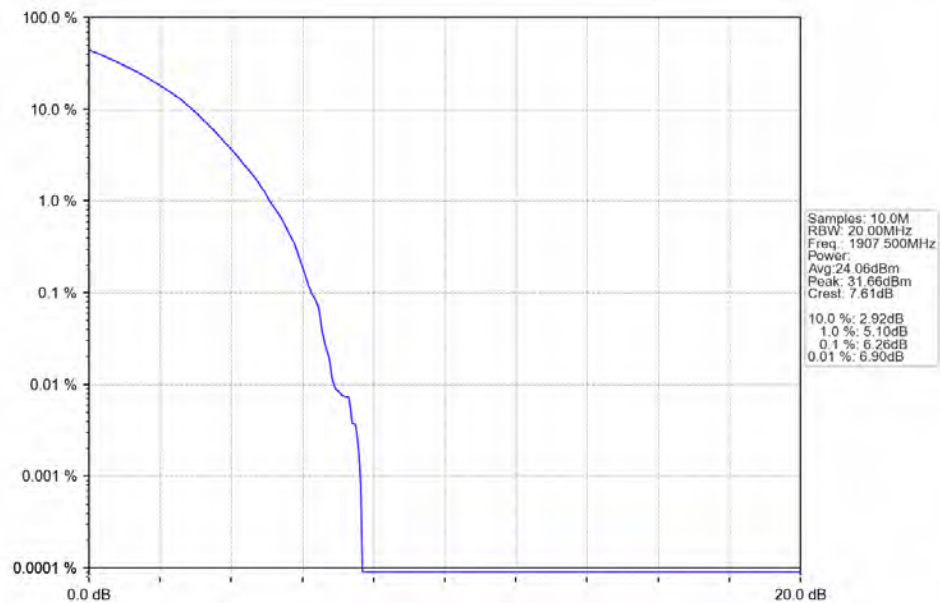
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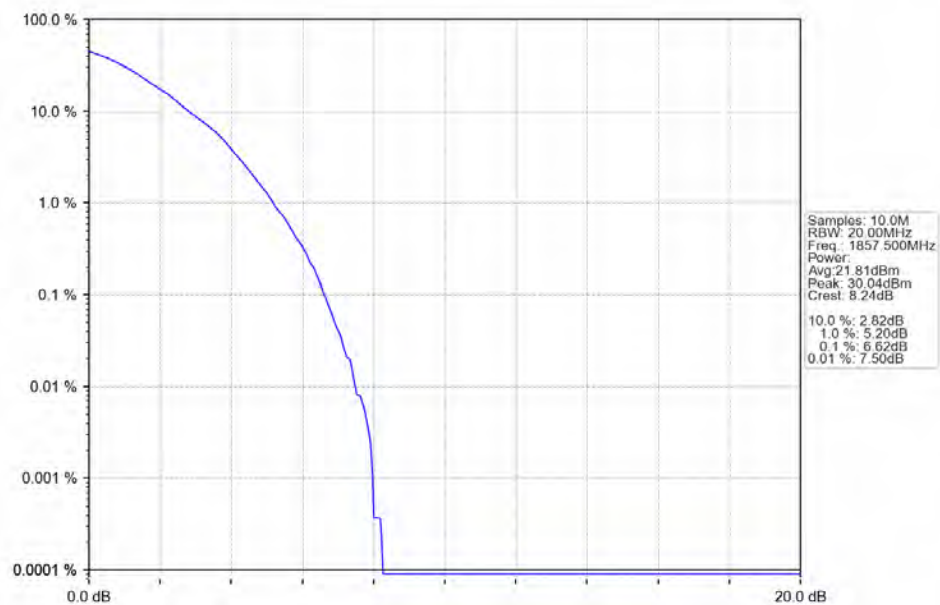
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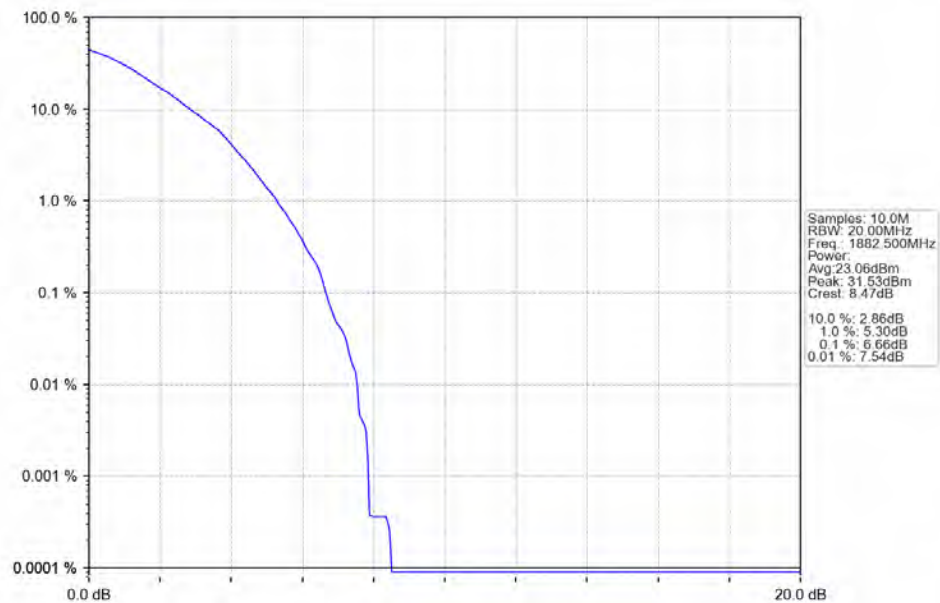
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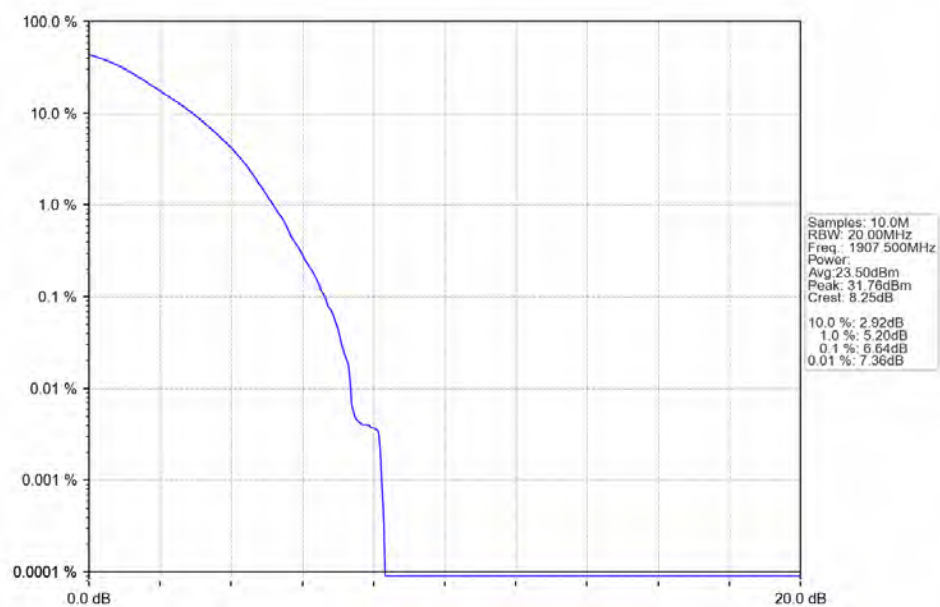
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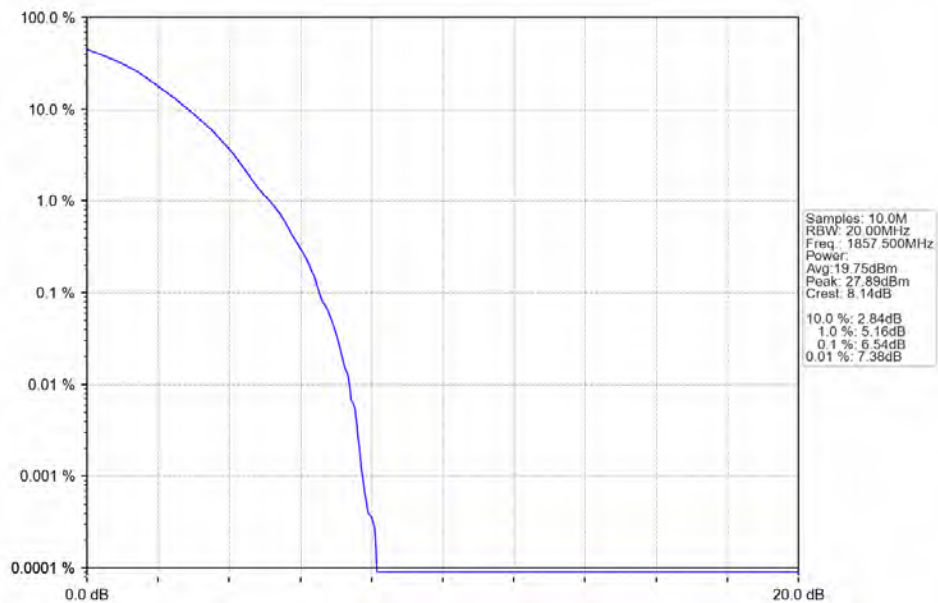
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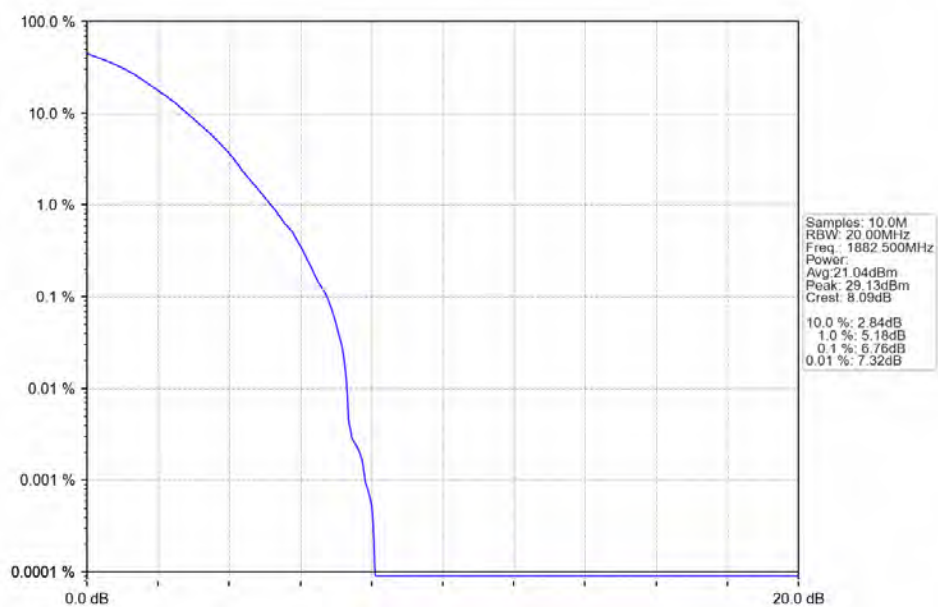
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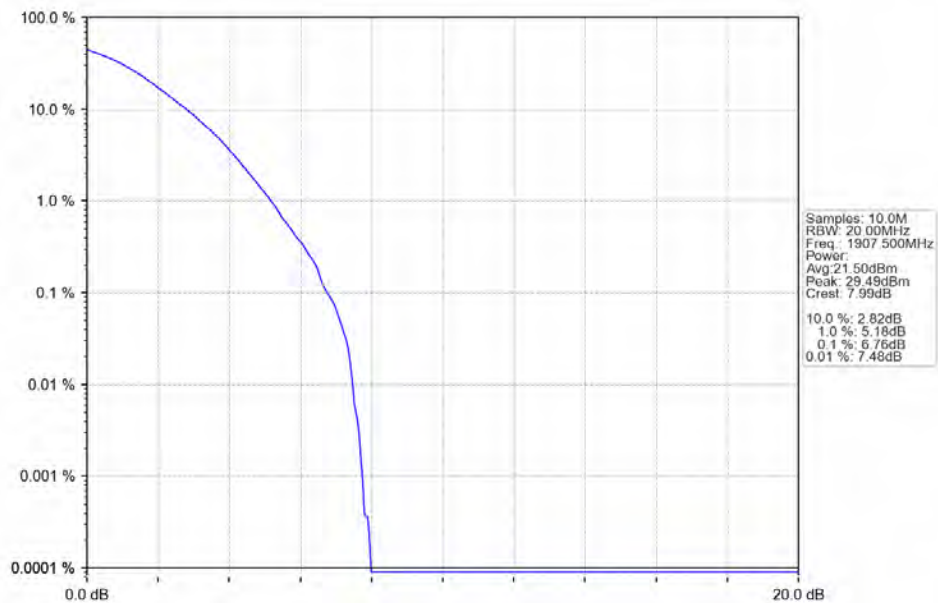
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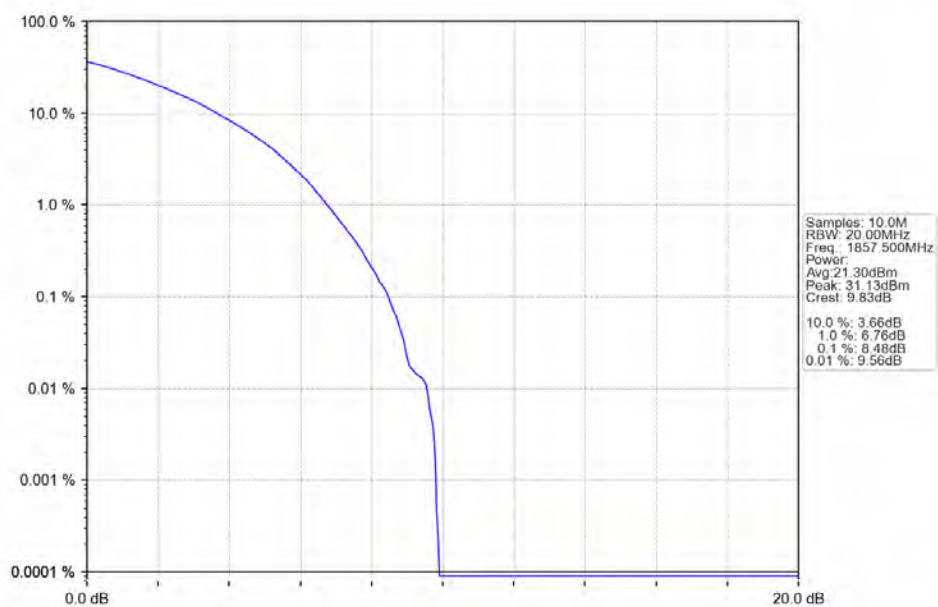
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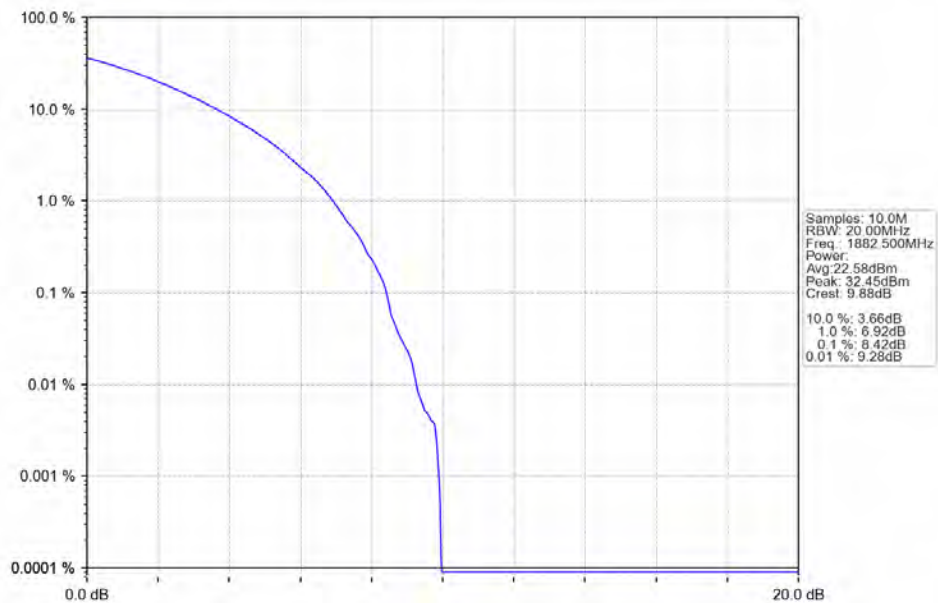
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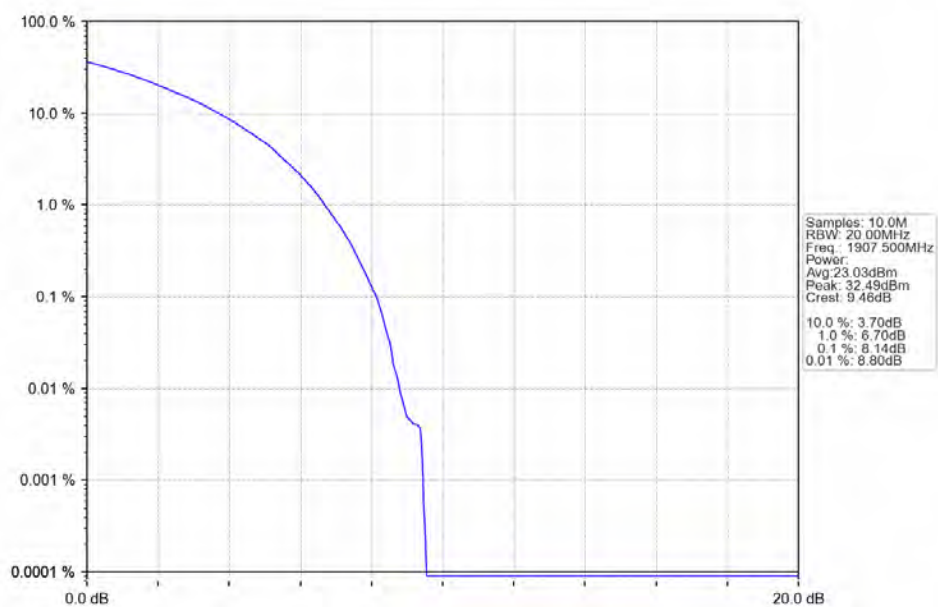
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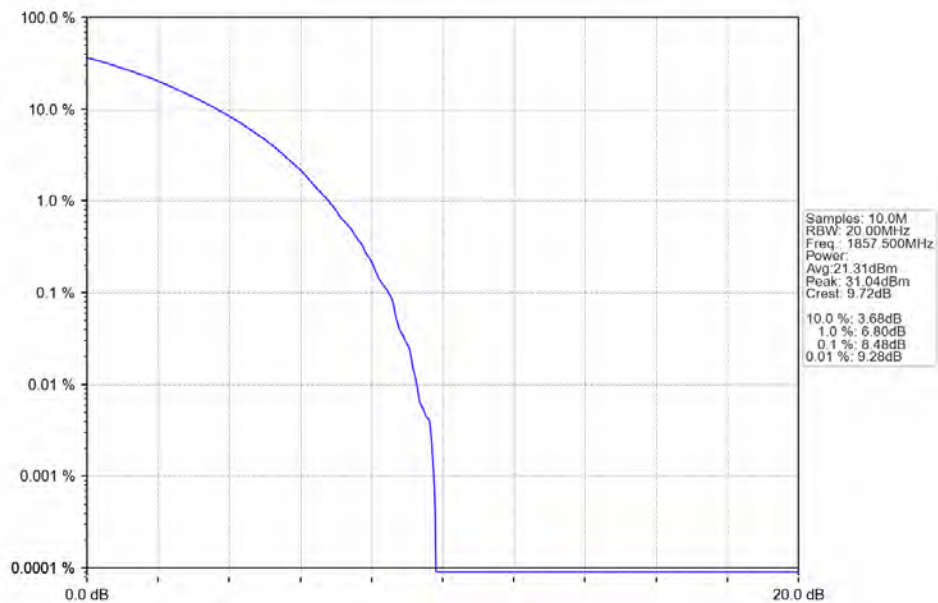
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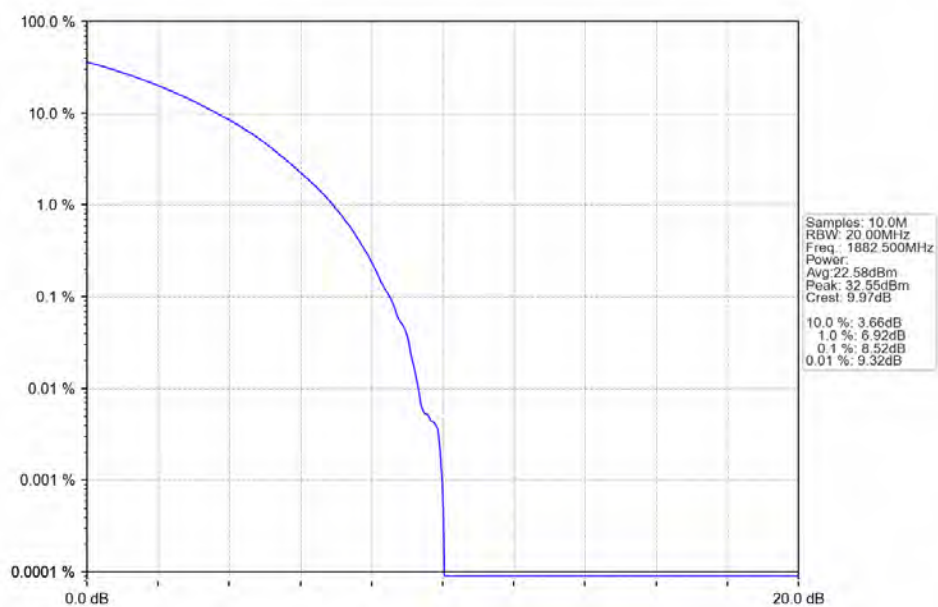
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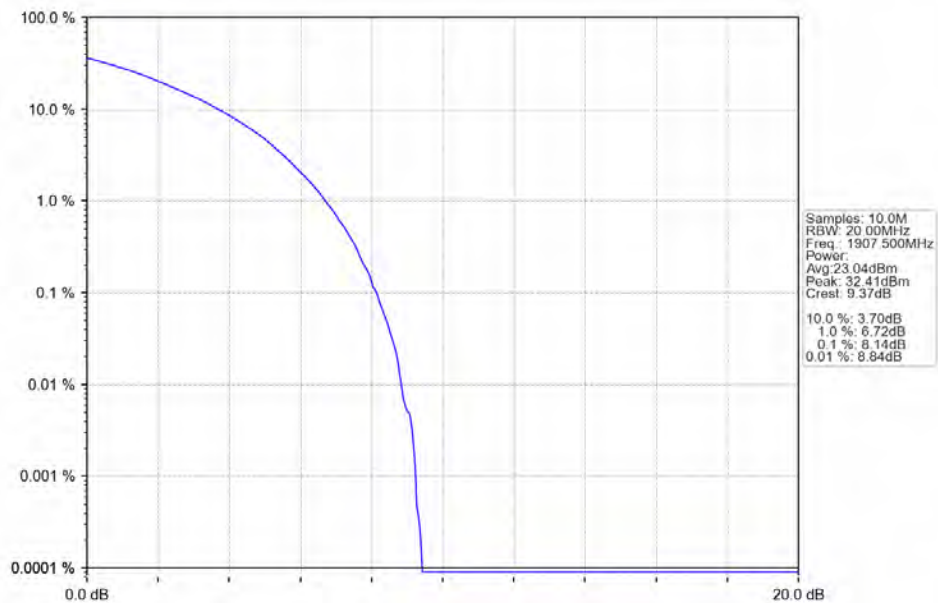
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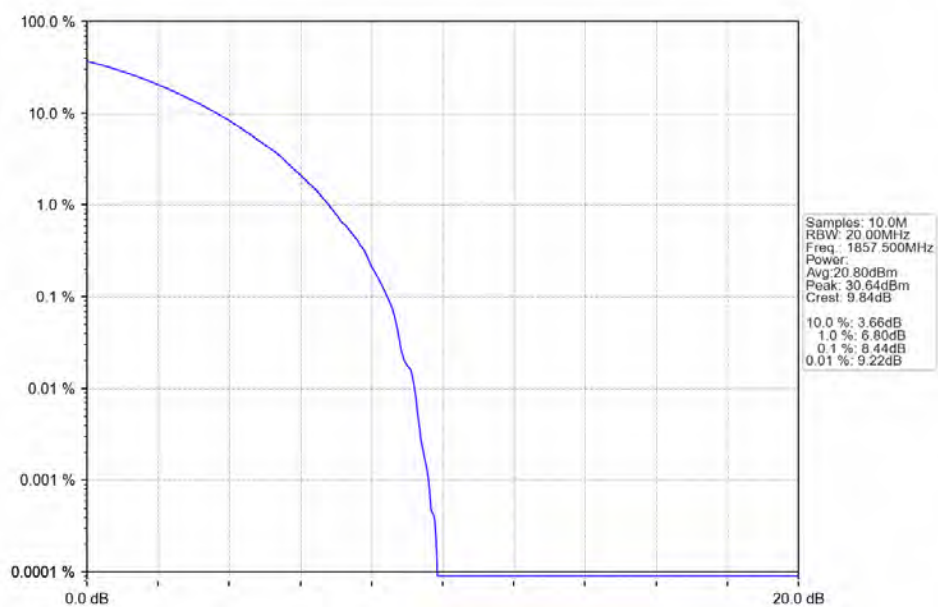
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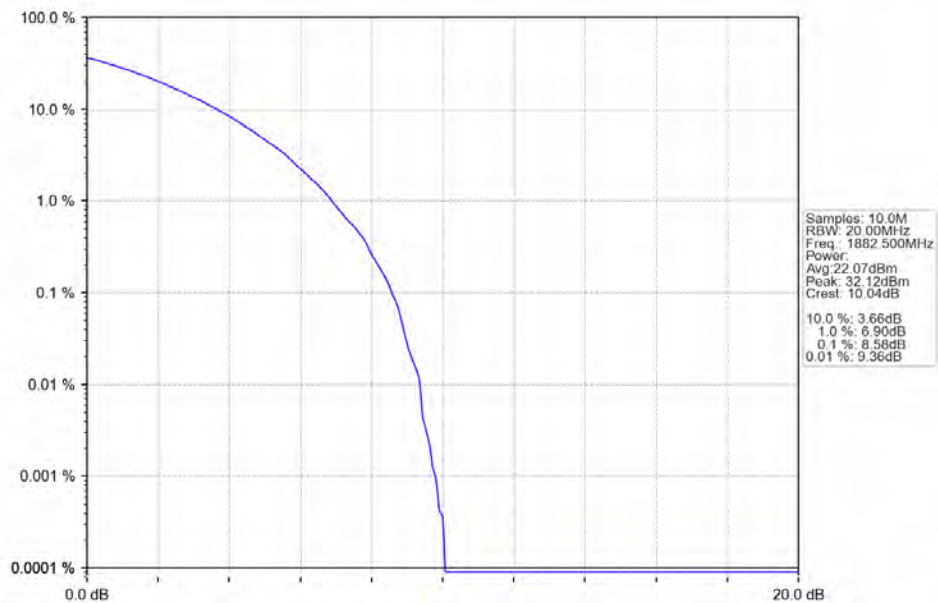
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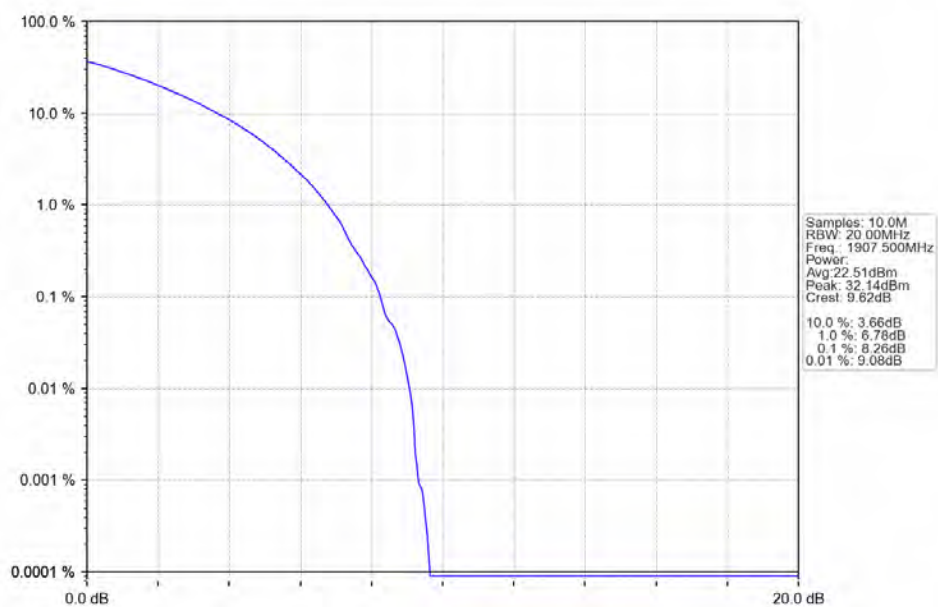
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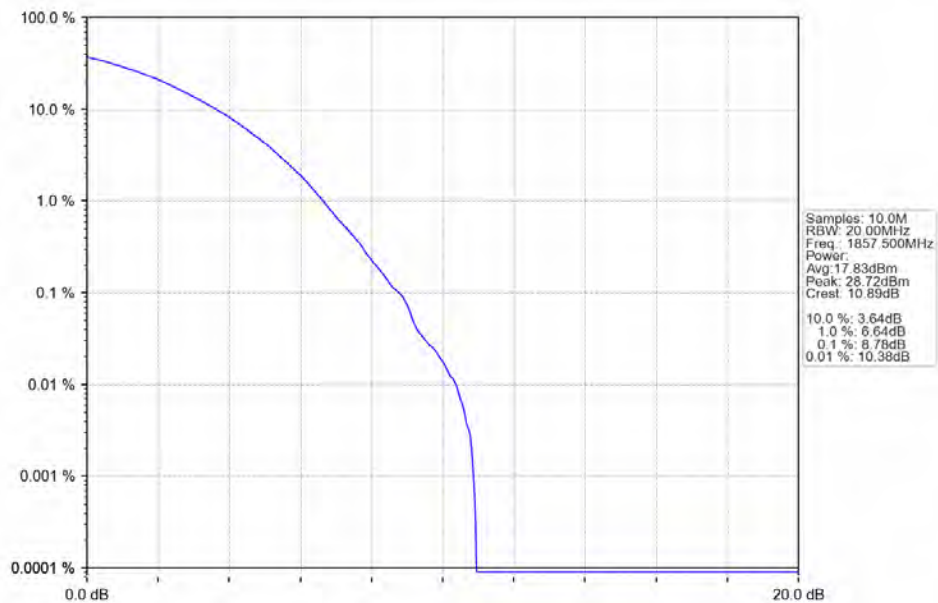
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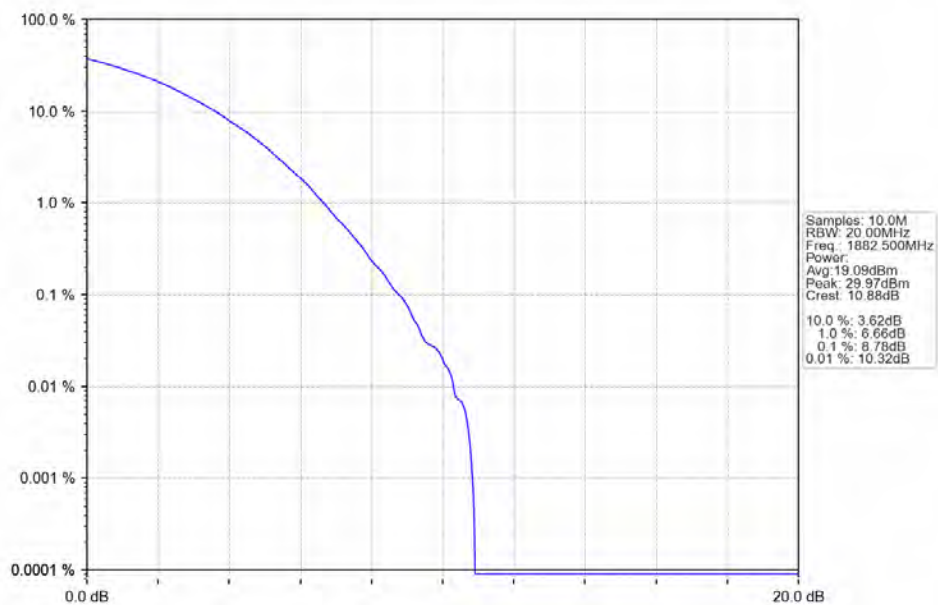
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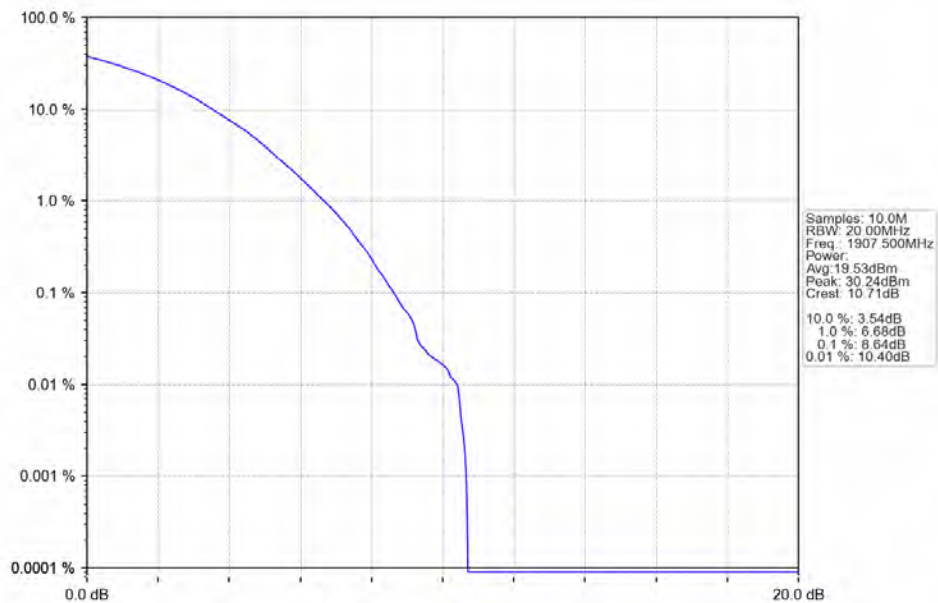
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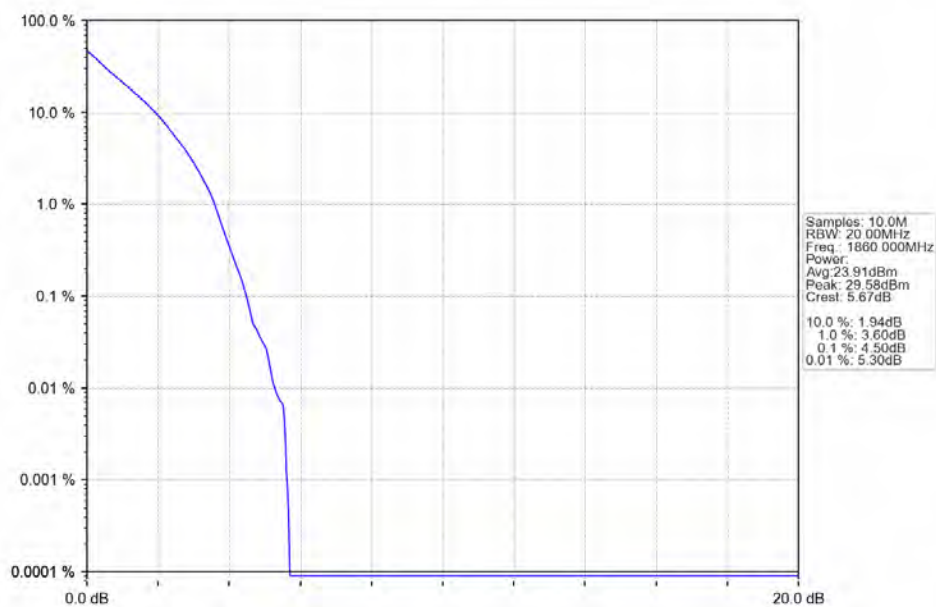


n25 15kHz SISO NTN 15MHz CP-OFDM 256 QAM 1907.5MHz Outer Full Ant1

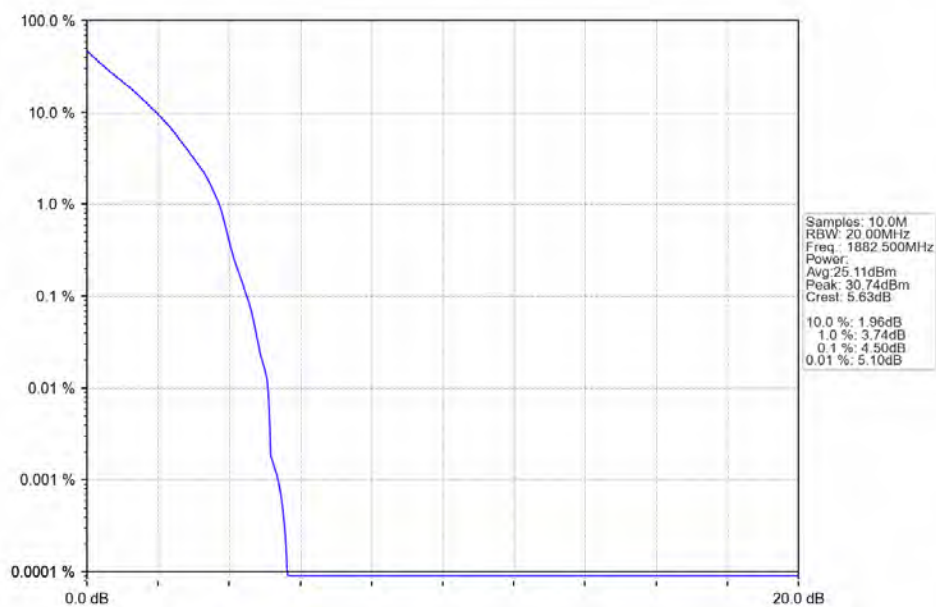


## 4.2.4 15k\_SISO\_20MHz\_NTNV

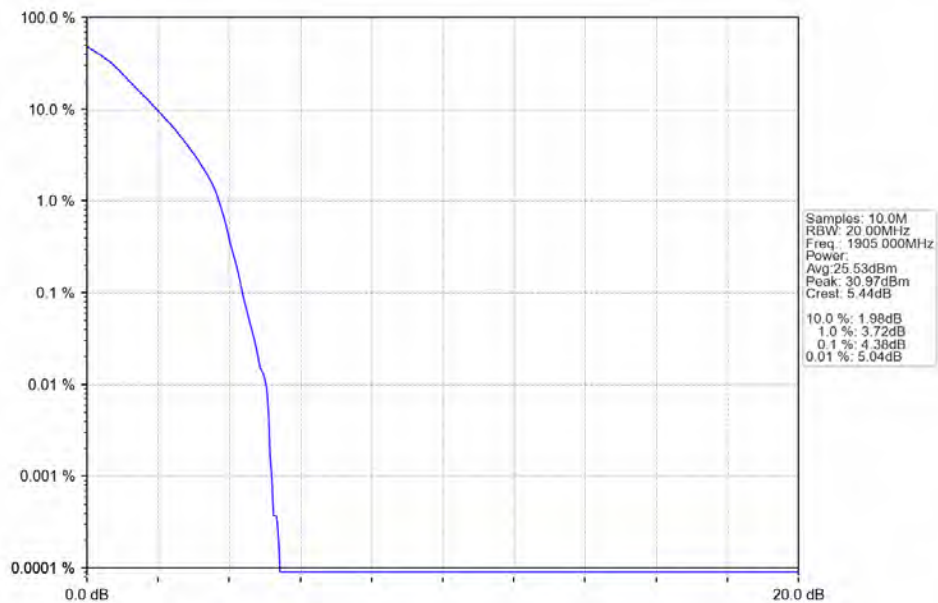
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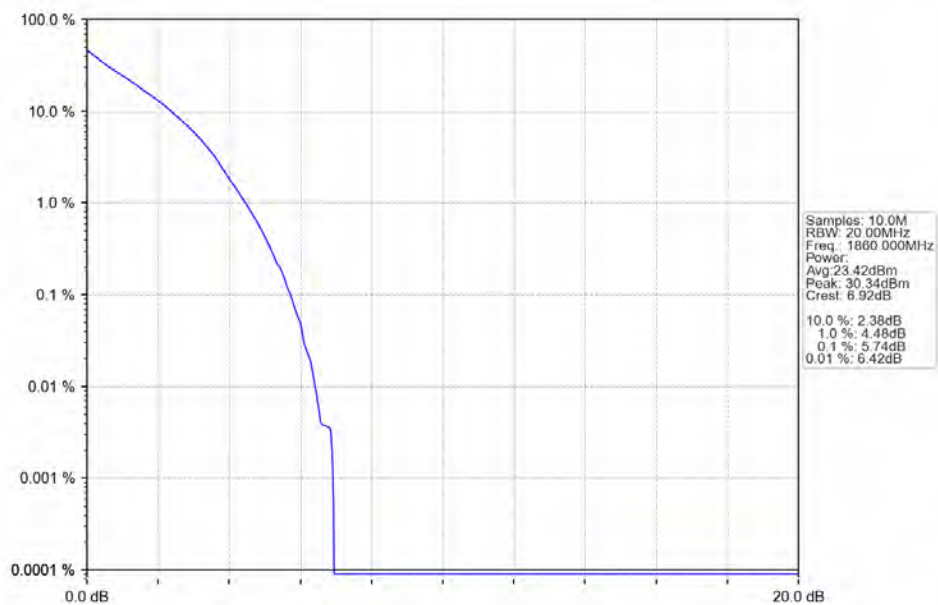
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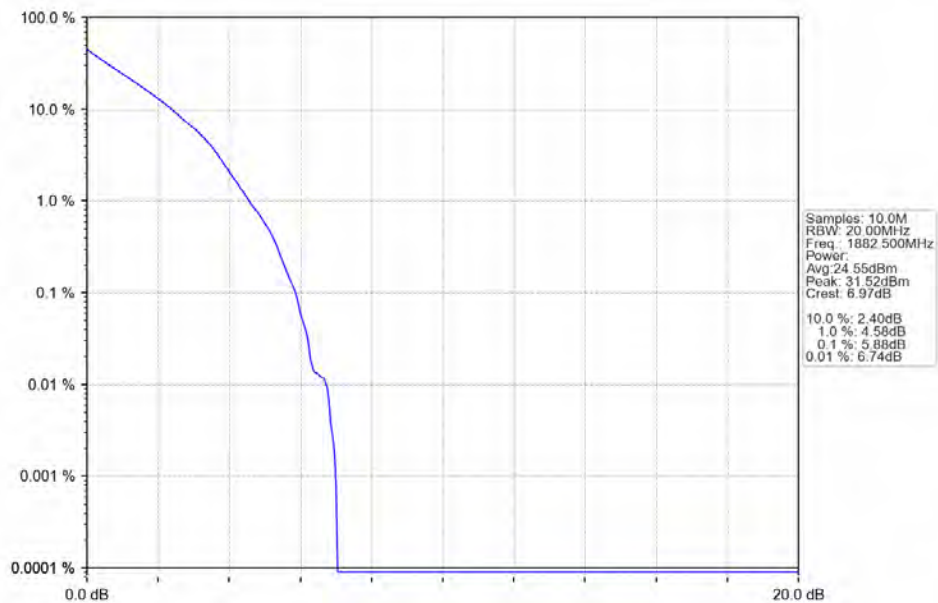
n25 15kHz SISO NTN 20MHz DFT-s-OFDM PI/2 BPSK 1905MHz Outer Full Ant1



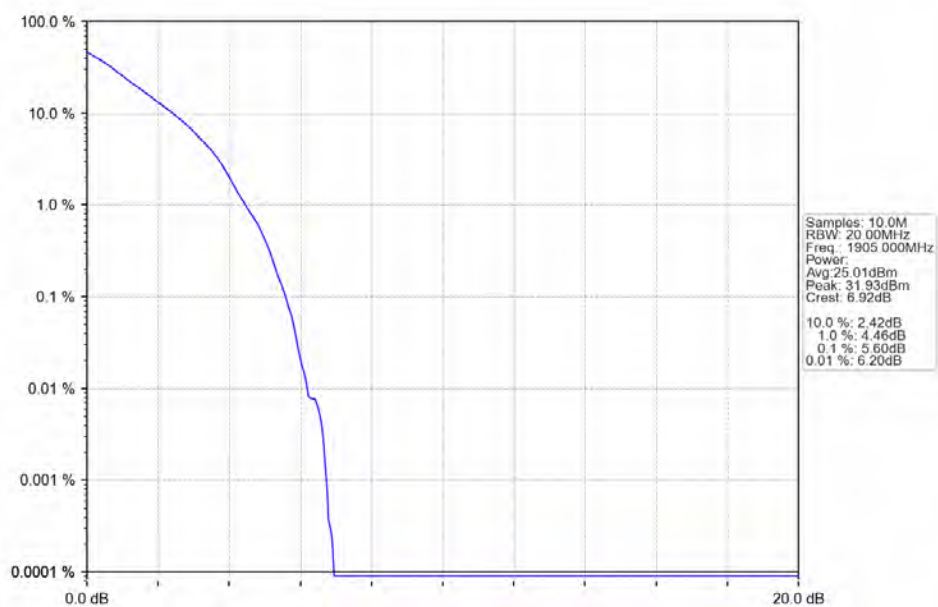
n25 15kHz SISO NTN 20MHz DFT-s-OFDM QPSK 1860MHz Outer Full Ant1



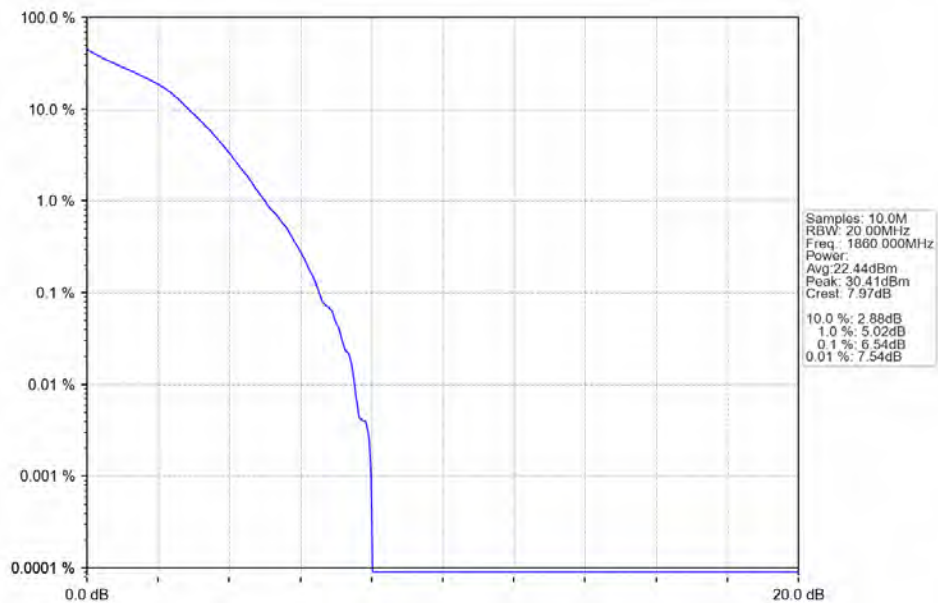
n25 15kHz SISO NTN 20MHz DFT-s-OFDM QPSK 1882.5MHz Outer Full Ant1



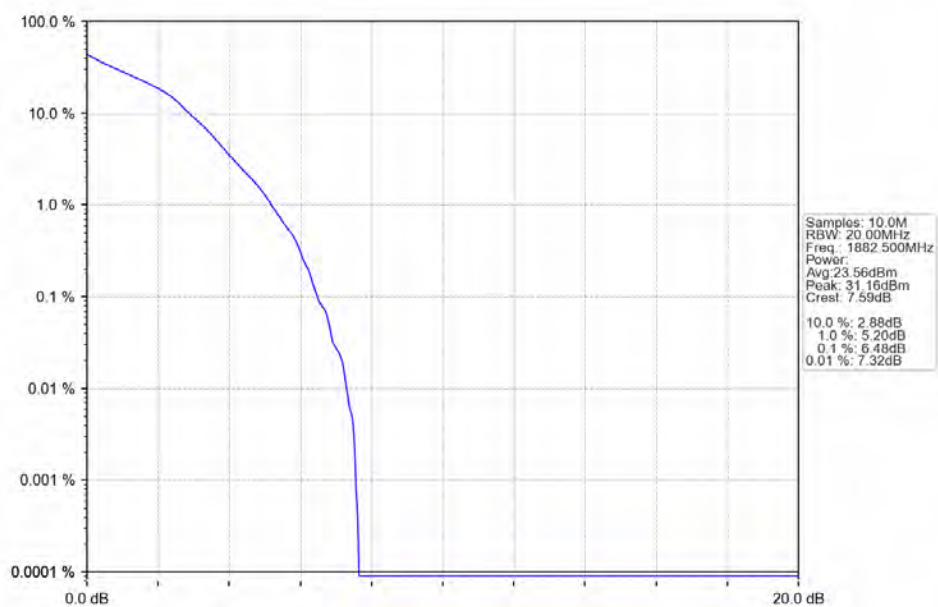
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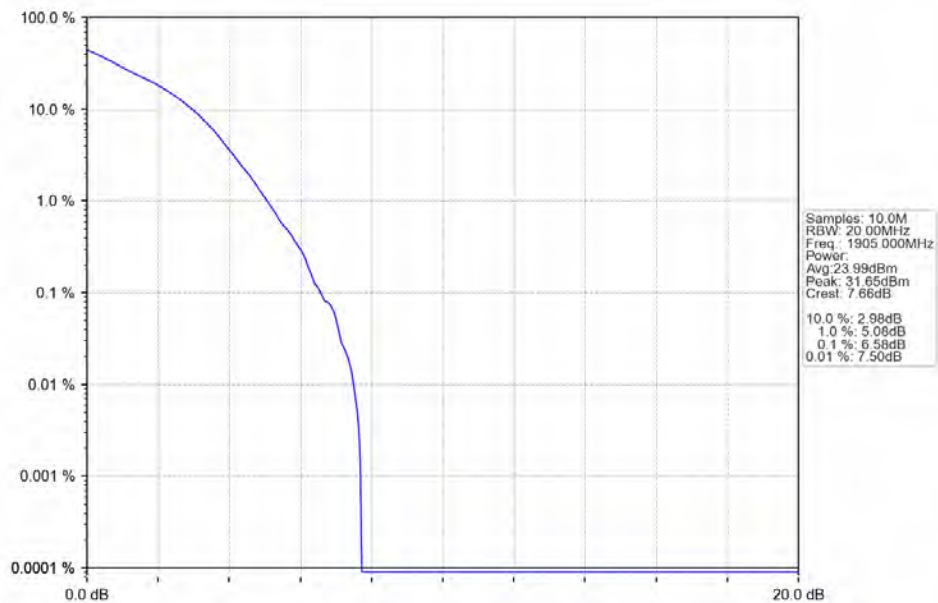
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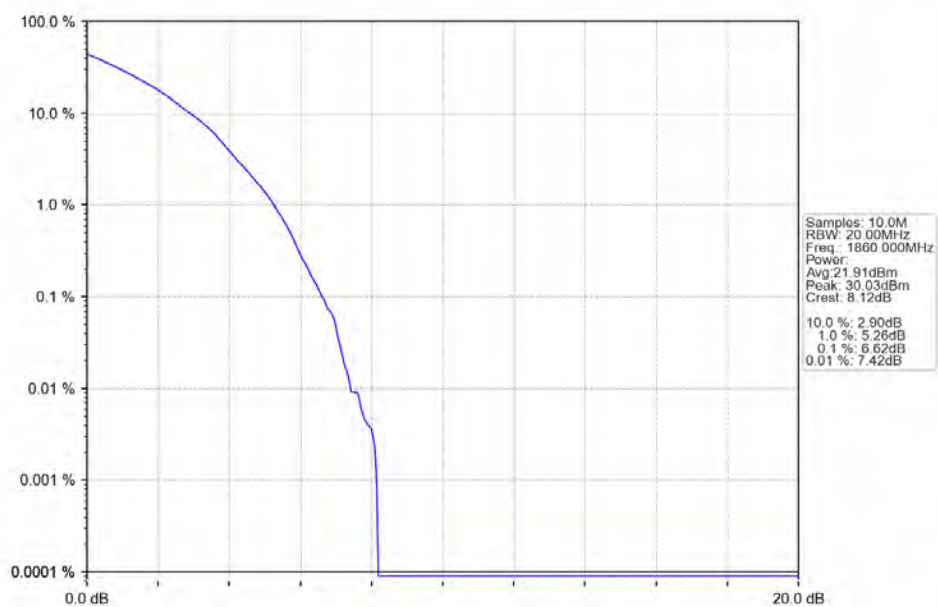
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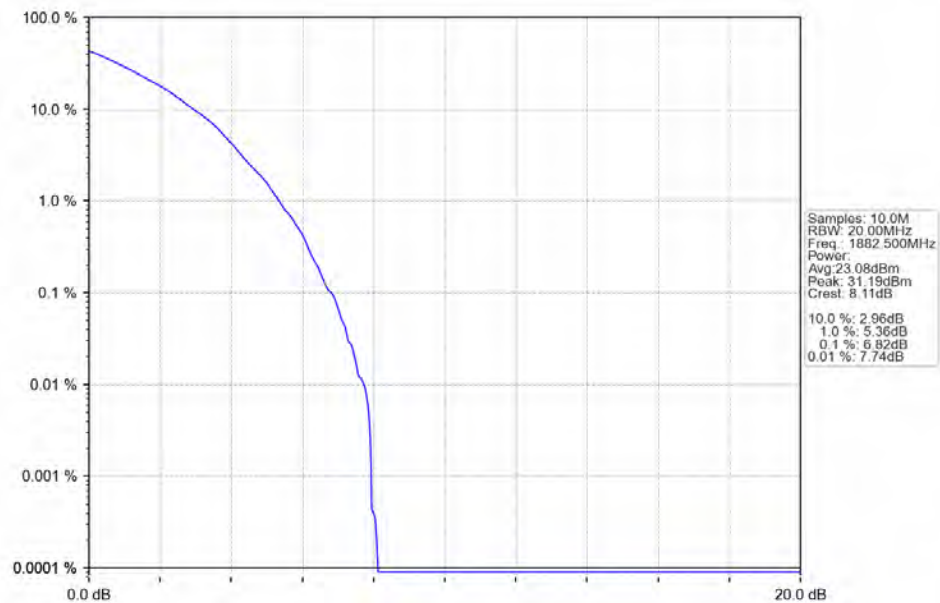
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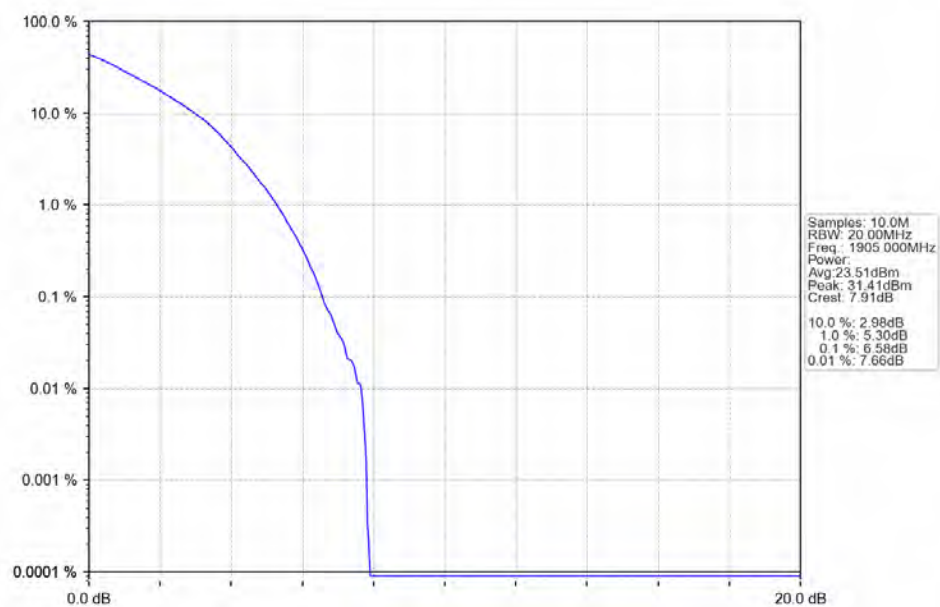
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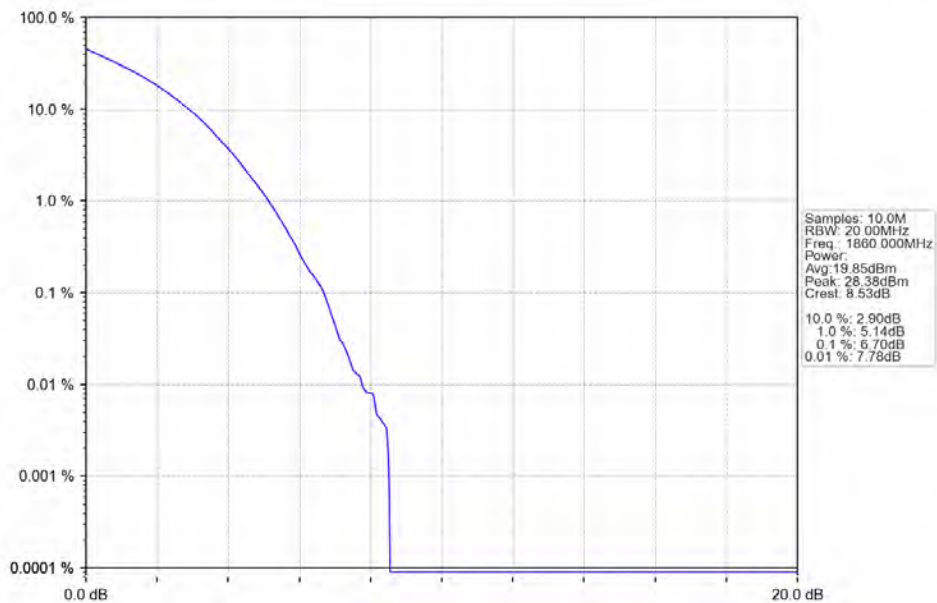
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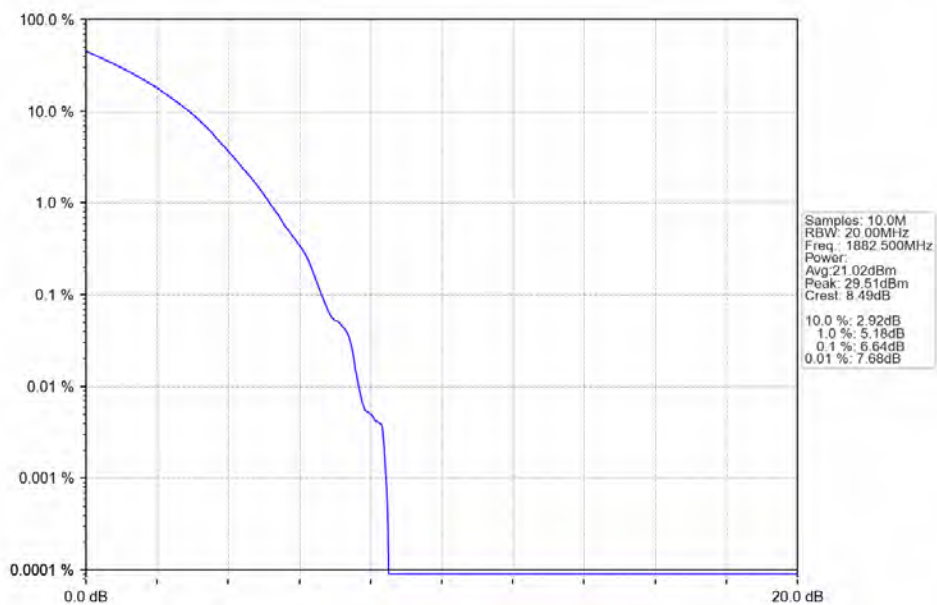
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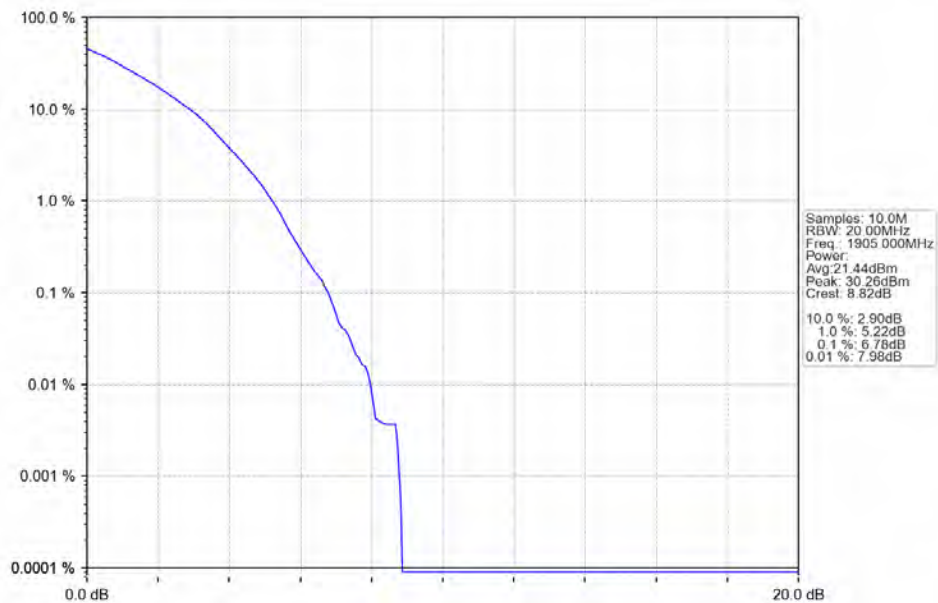
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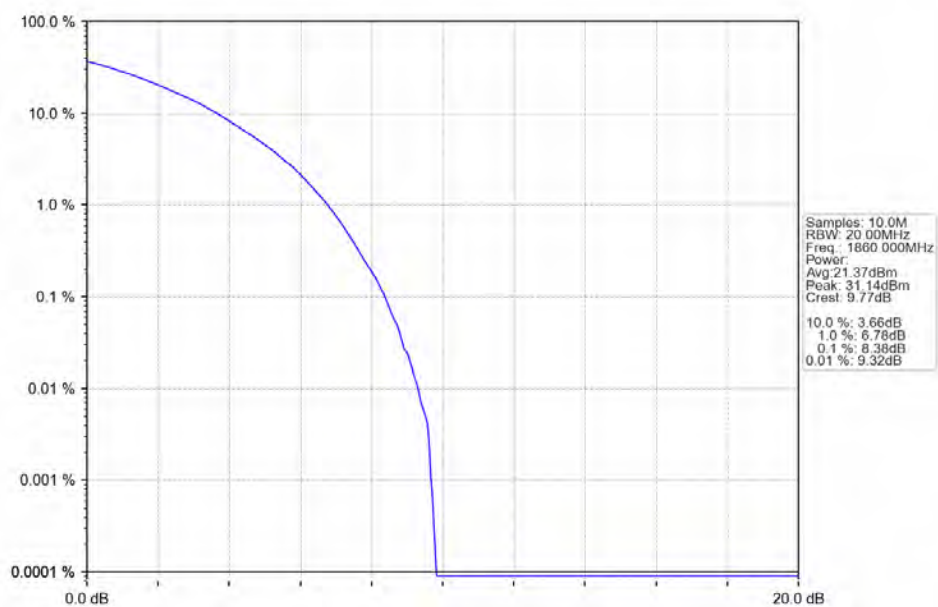
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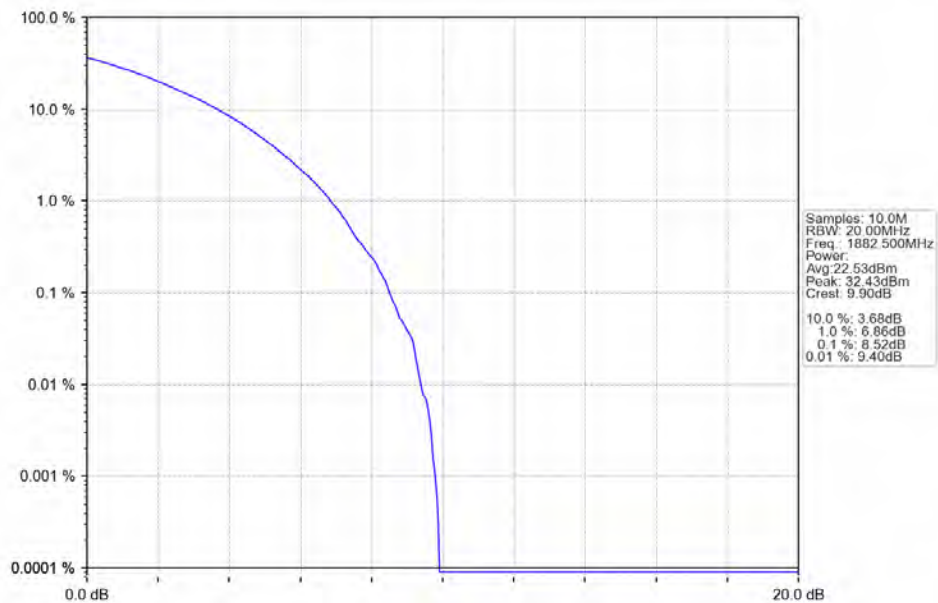
n25 15kHz SISO NTN 20MHz DFT-s-OFDM 256 QAM 1905MHz Outer Full Ant1



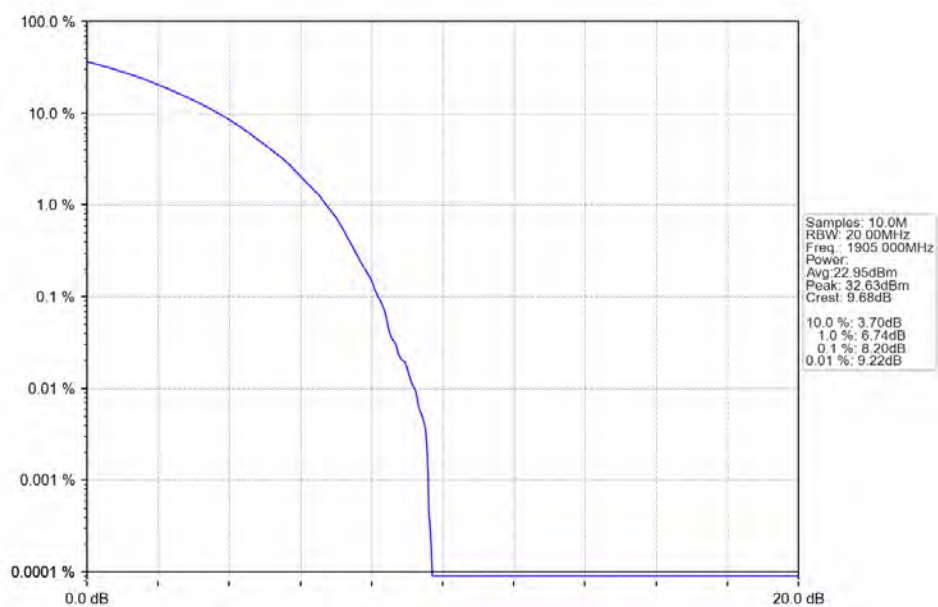
n25 15kHz SISO NTN 20MHz CP-OFDM QPSK 1860MHz Outer Full Ant1



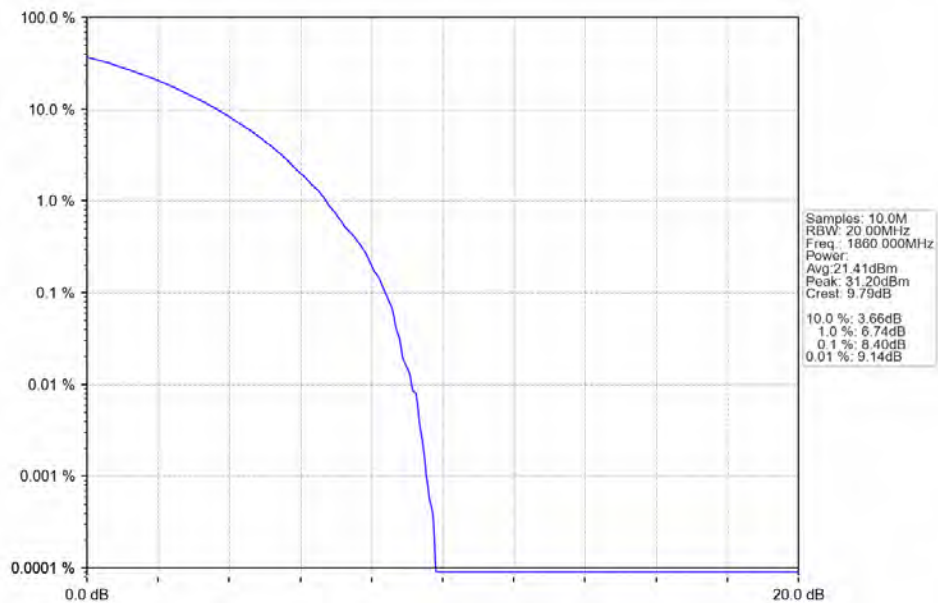
n25 15kHz SISO NTN 20MHz CP-OFDM QPSK 1882.5MHz Outer Full Ant1



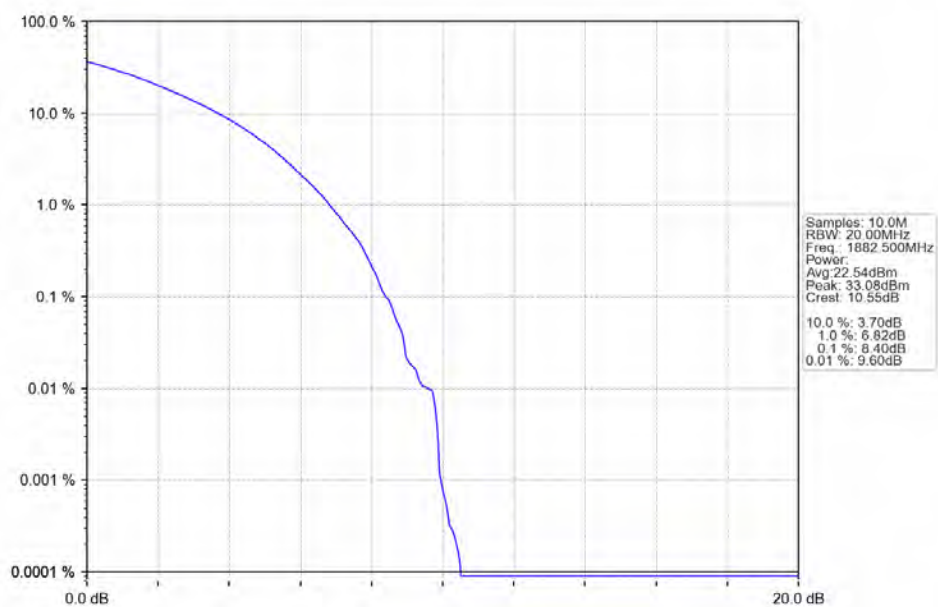
n25 15kHz SISO NTN 20MHz CP-OFDM QPSK 1905MHz Outer Full Ant1



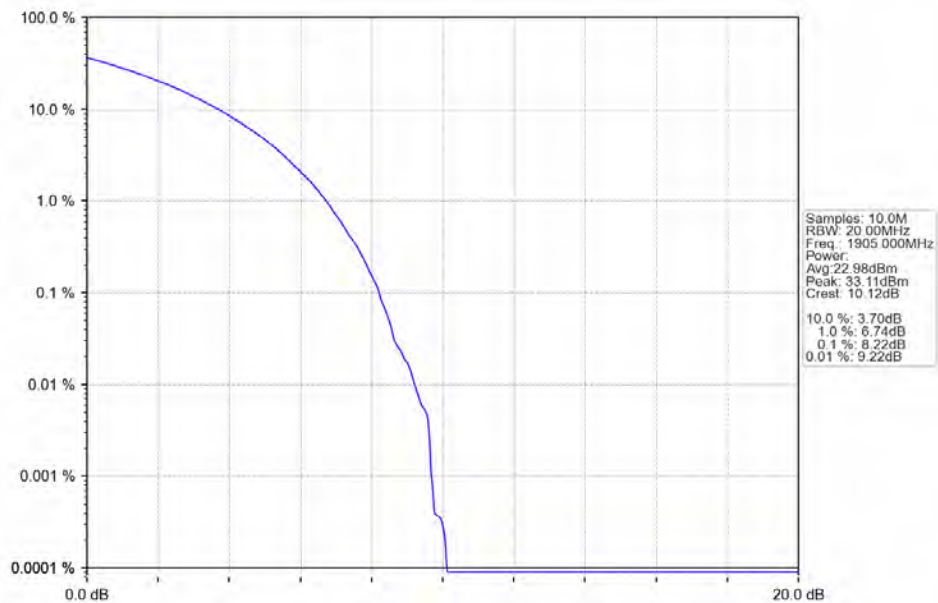
n25 15kHz SISO NTN 20MHz CP-OFDM 16 QAM 1860MHz Outer Full Ant1



n25 15kHz SISO NTN 20MHz CP-OFDM 16 QAM 1882.5MHz Outer Full Ant1



n25 15kHz SISO NTN 20MHz CP-OFDM 16 QAM 1905MHz Outer Full Ant1



n25 15kHz SISO NTN 20MHz CP-OFDM 64 QAM 1860MHz Outer Full Ant1

