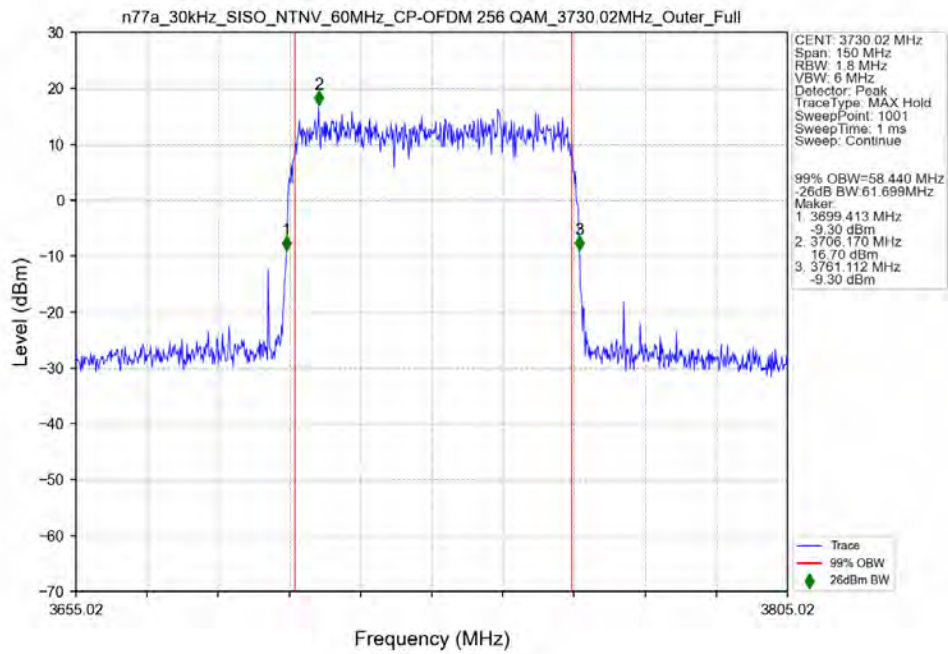
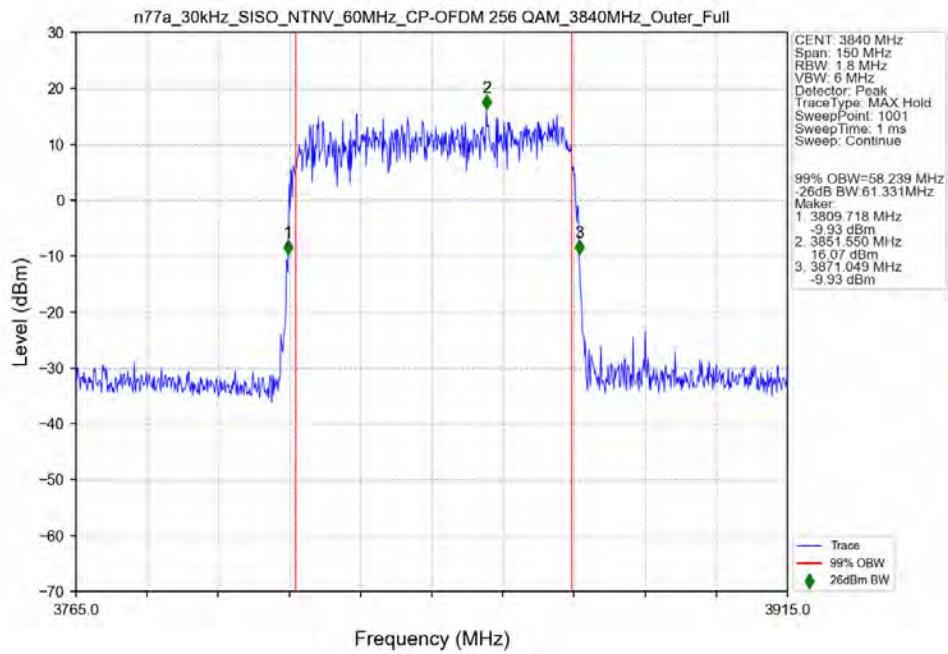


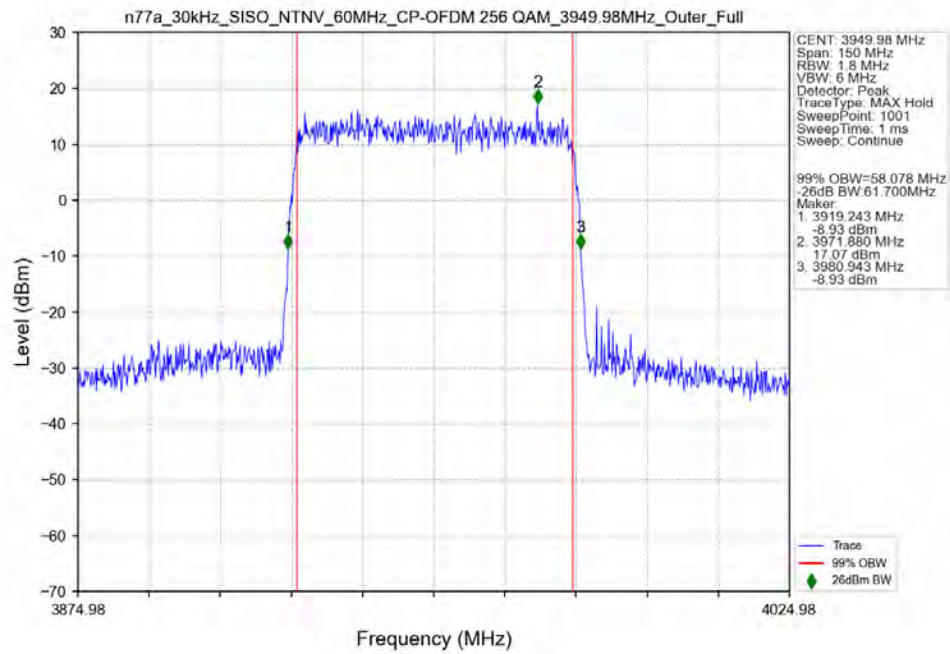
n77a\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM\_256\_QAM\_3730.02MHz\_Outer\_Full\_Ant13



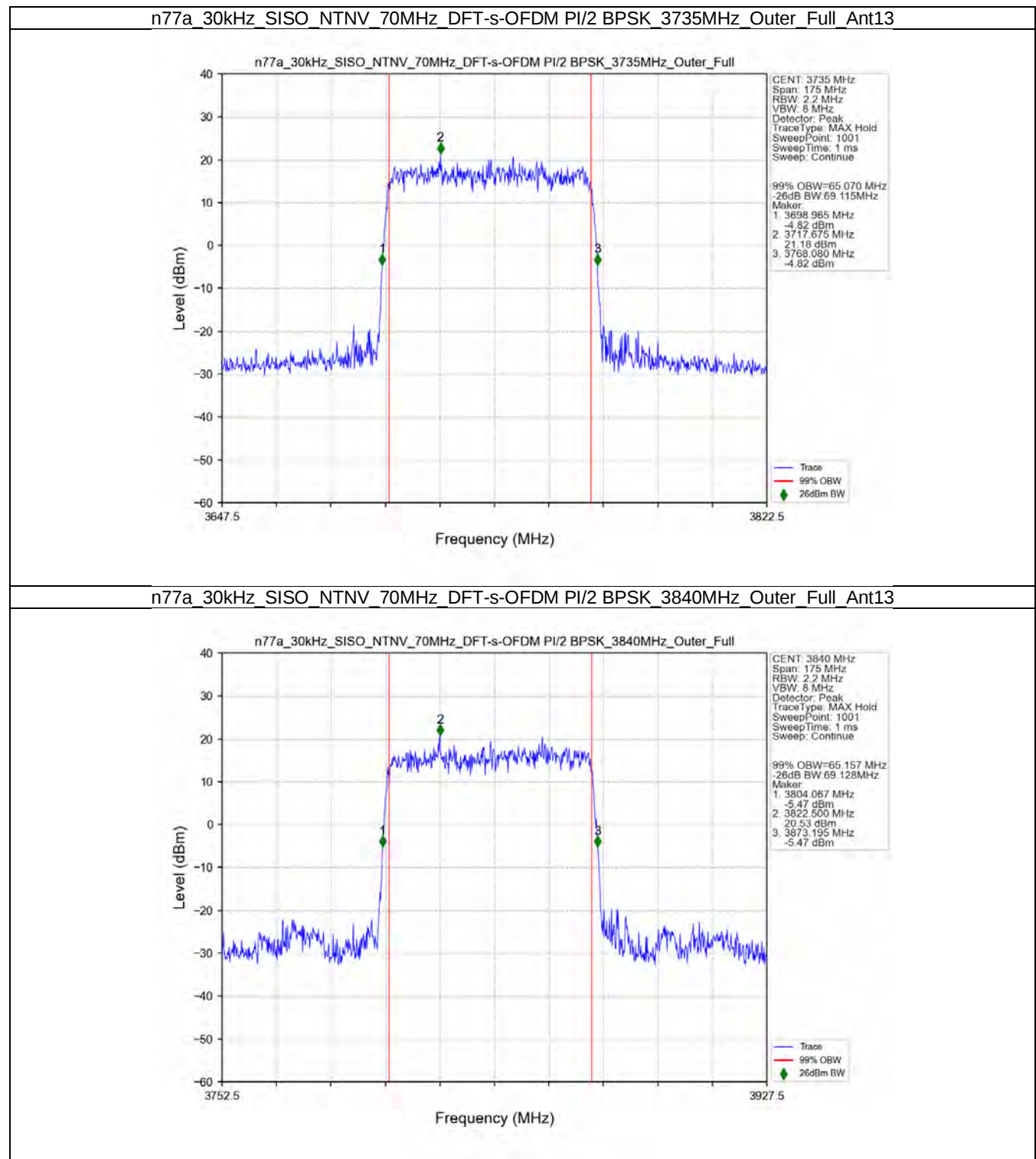
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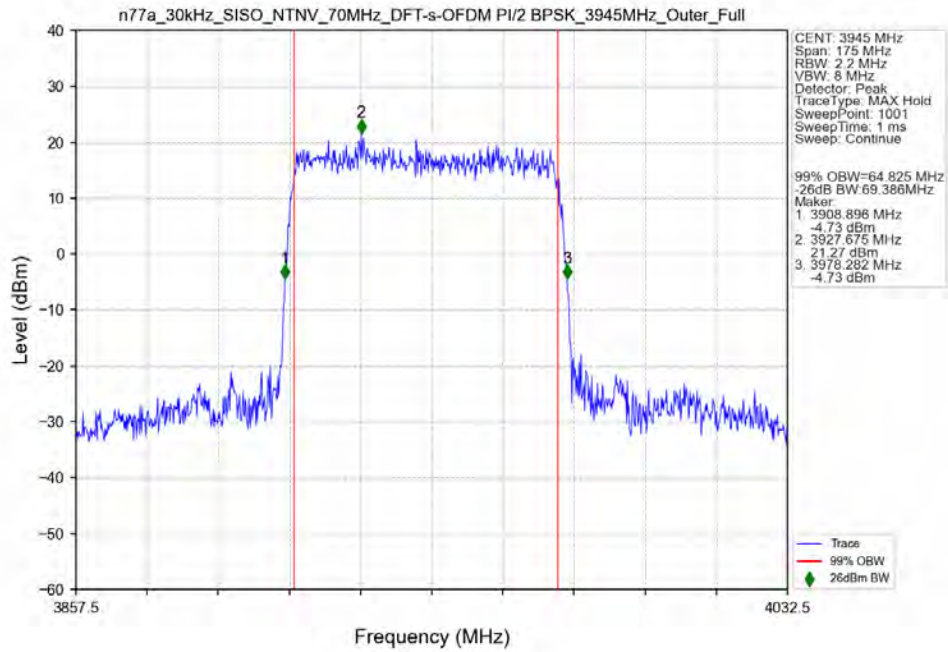
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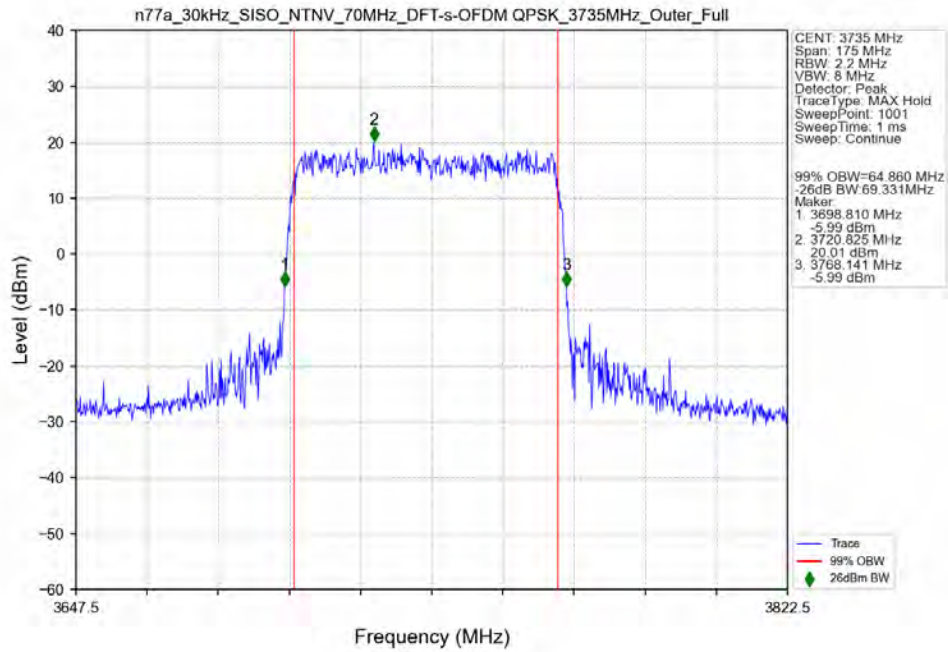
### 3.2.8 30k\_SISO\_70MHz\_NTNV



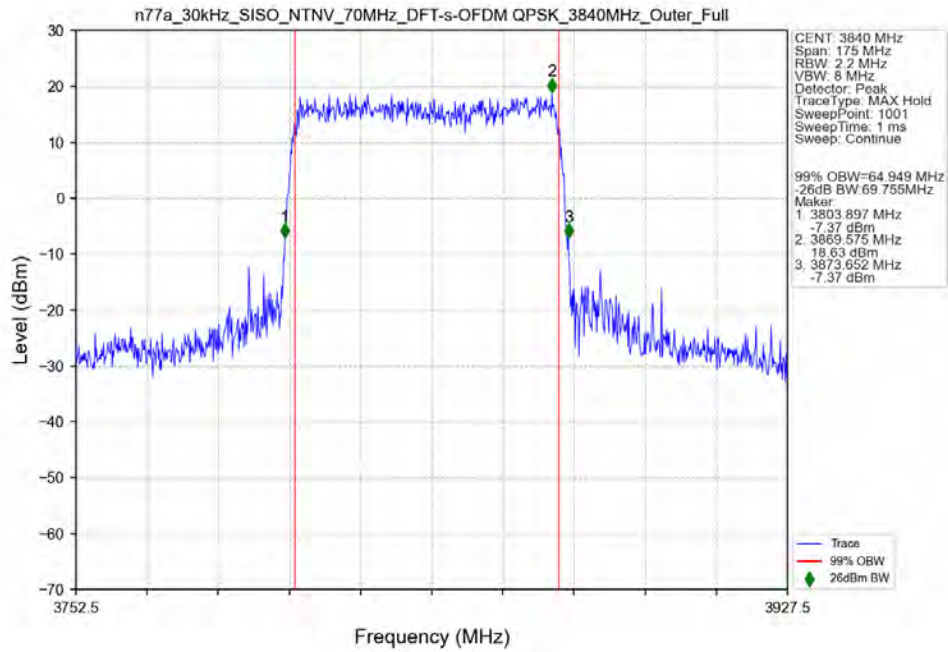
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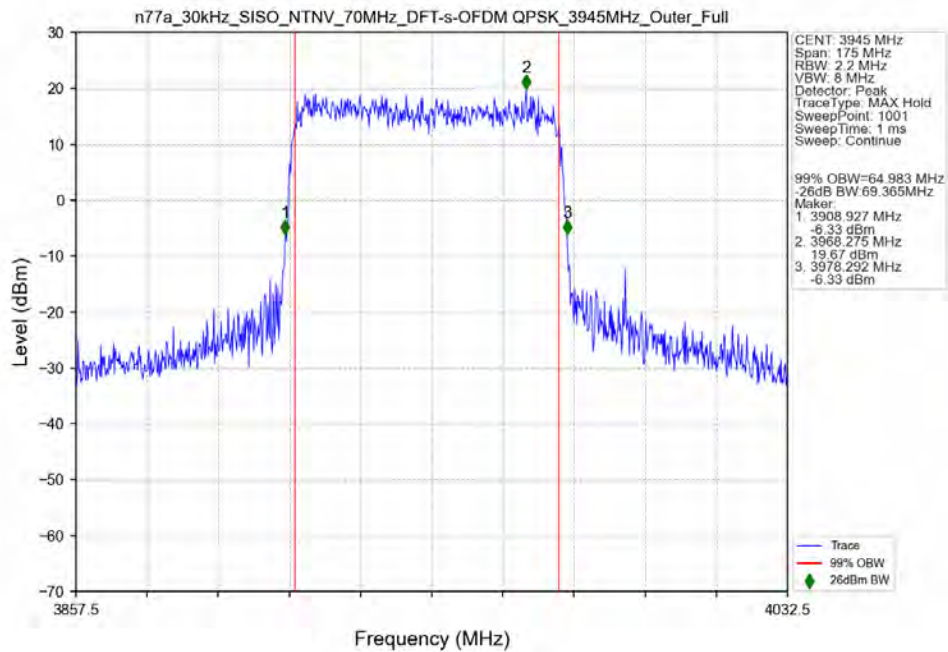
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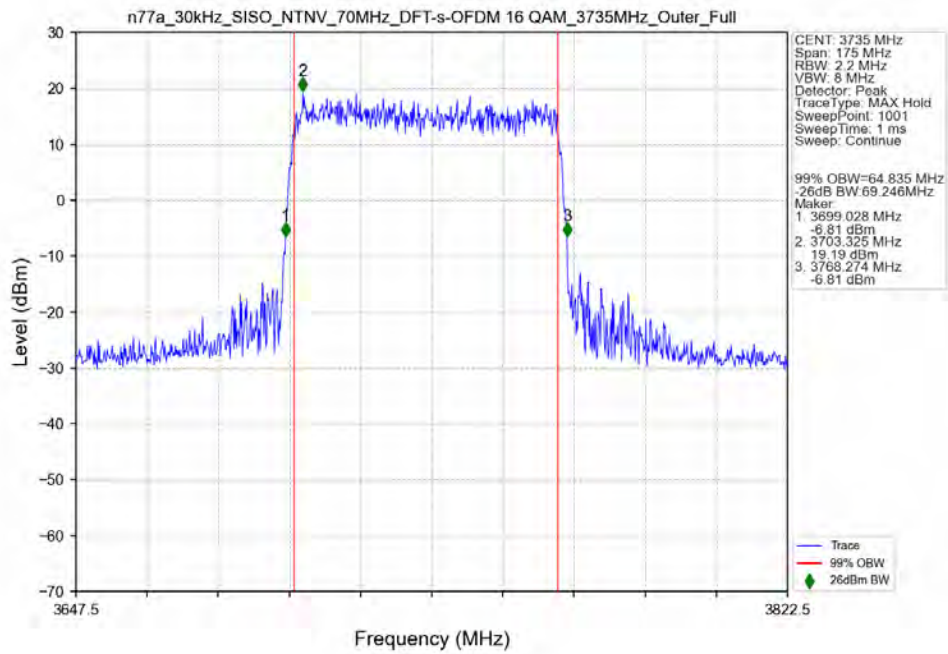
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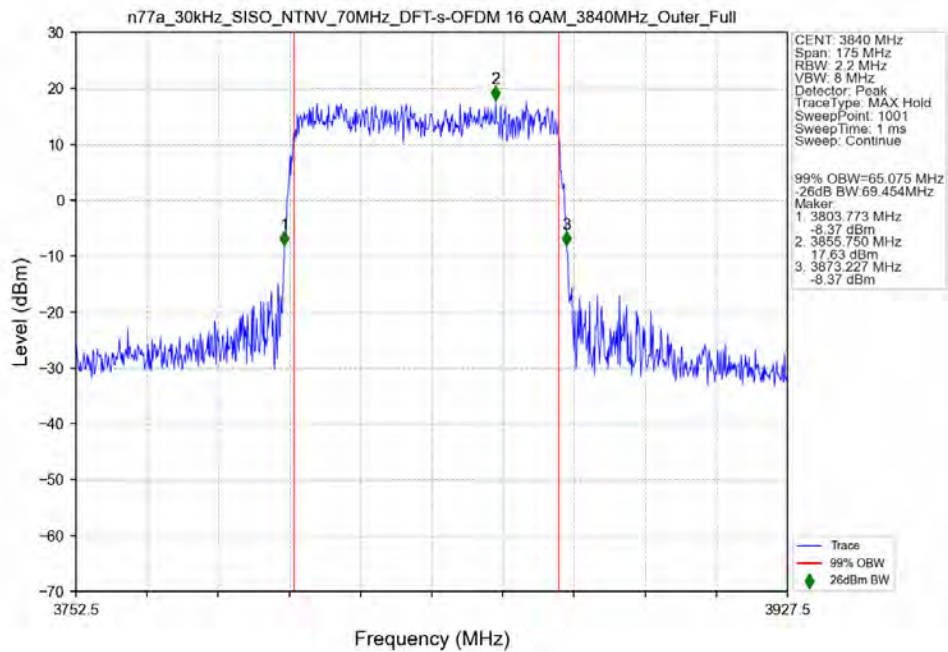
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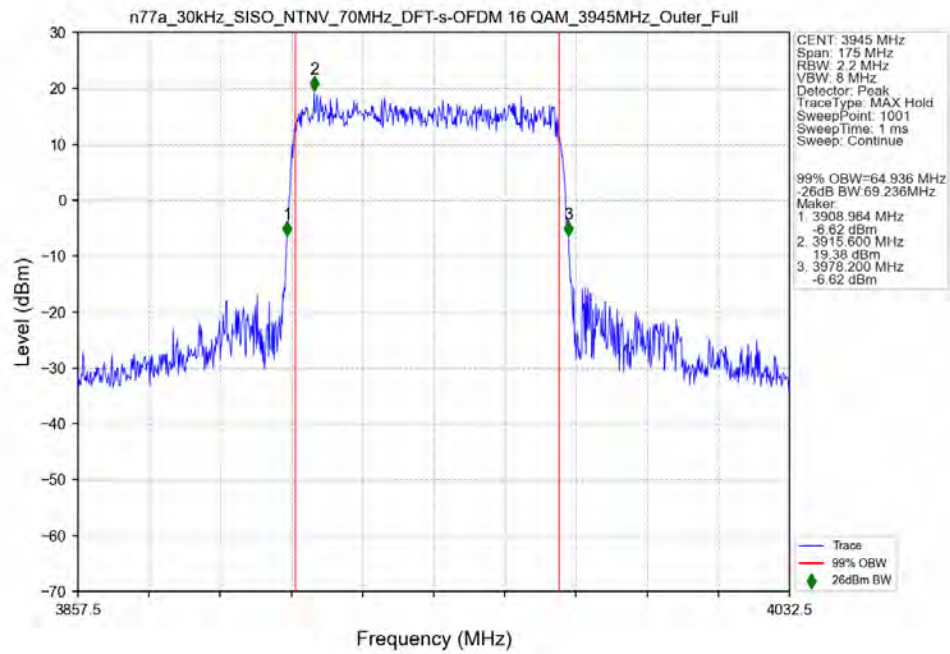
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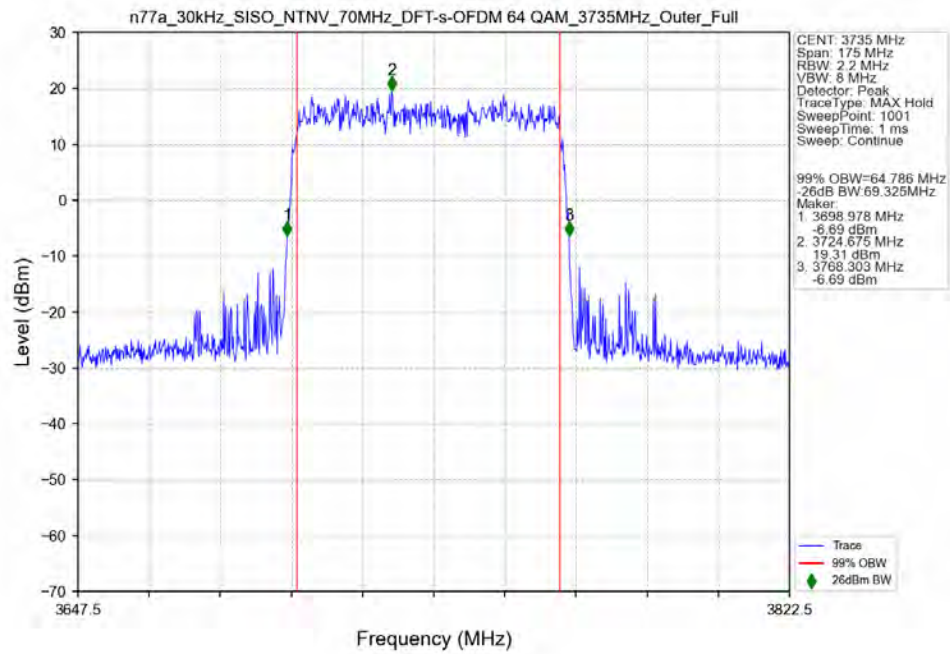
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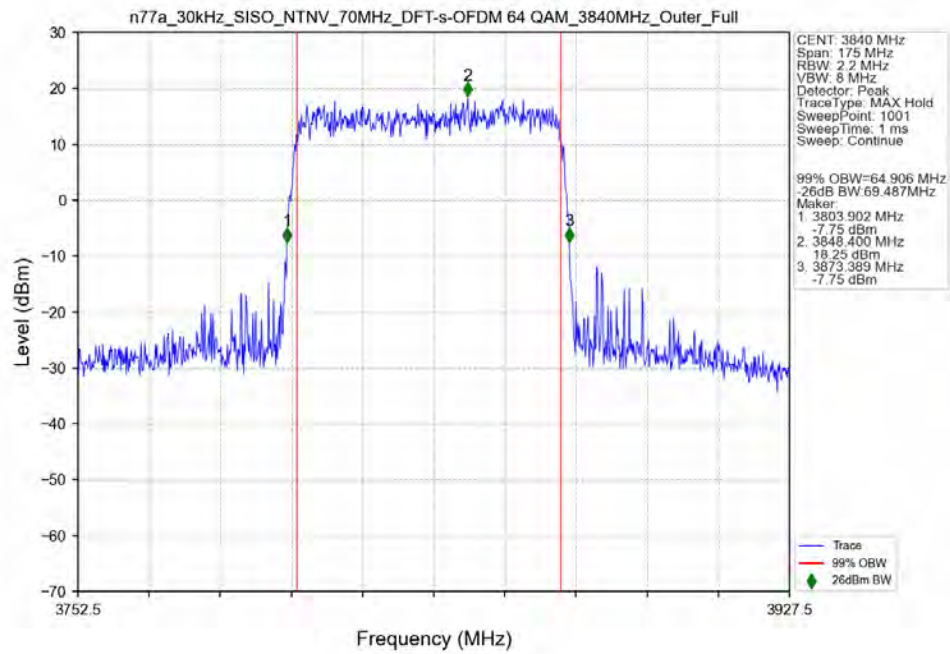
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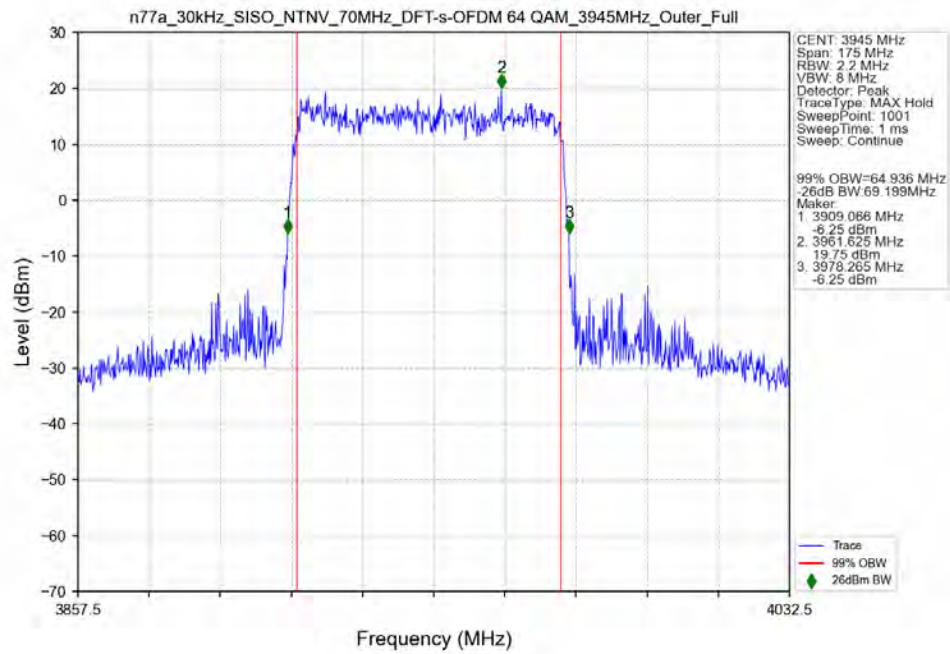
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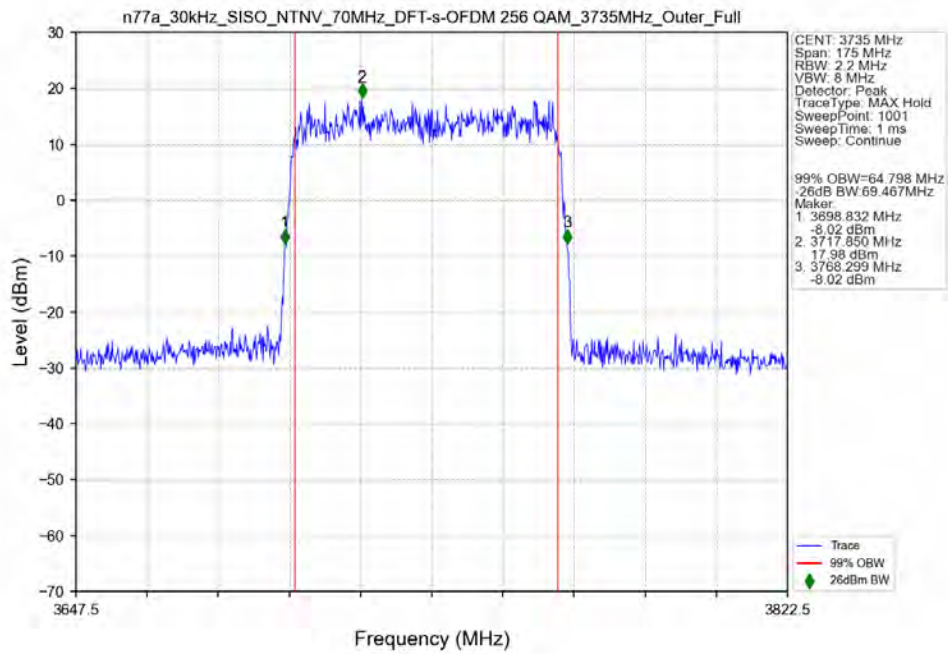
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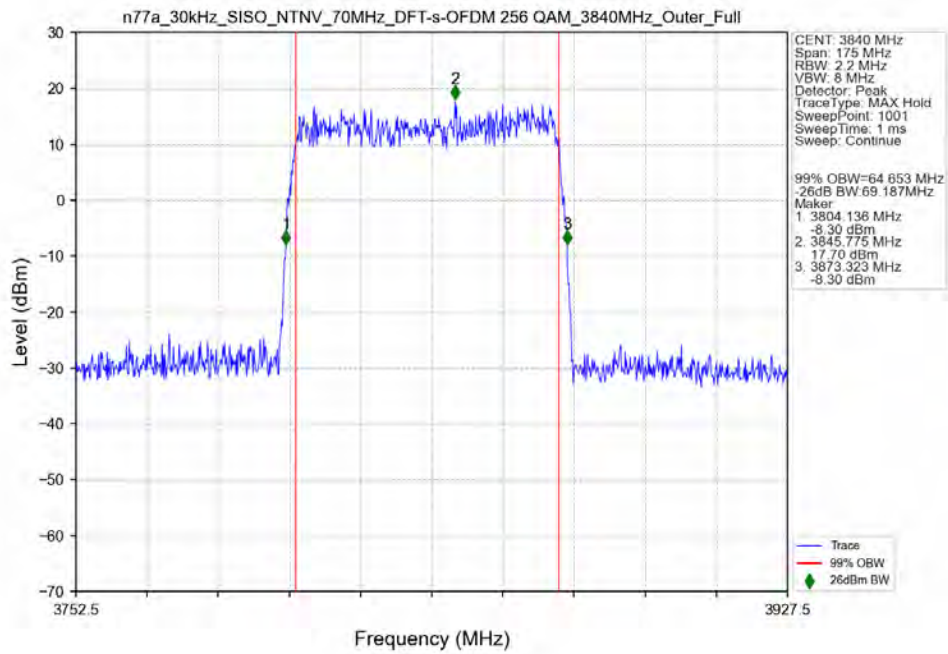
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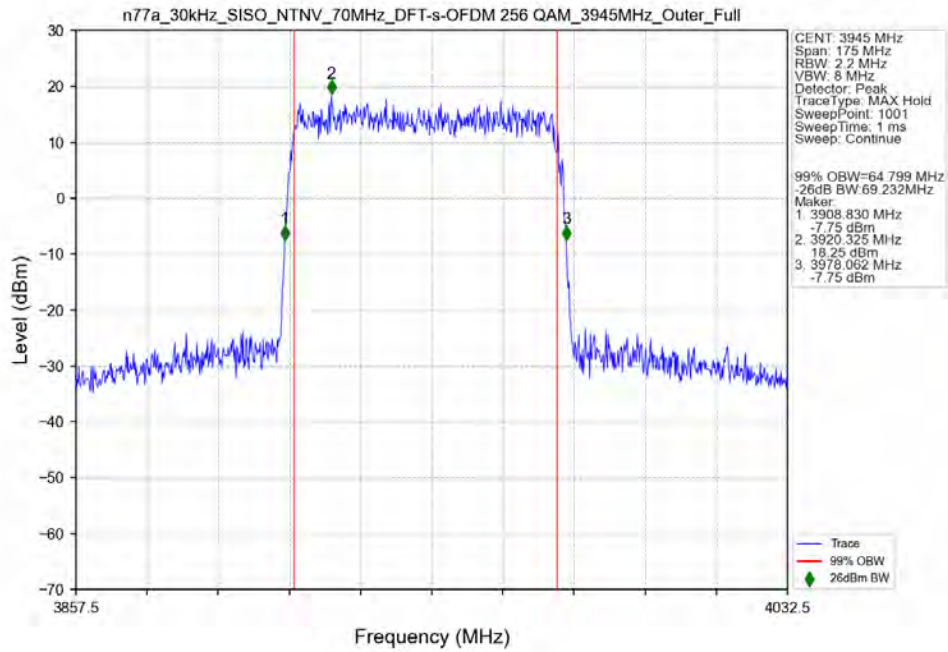
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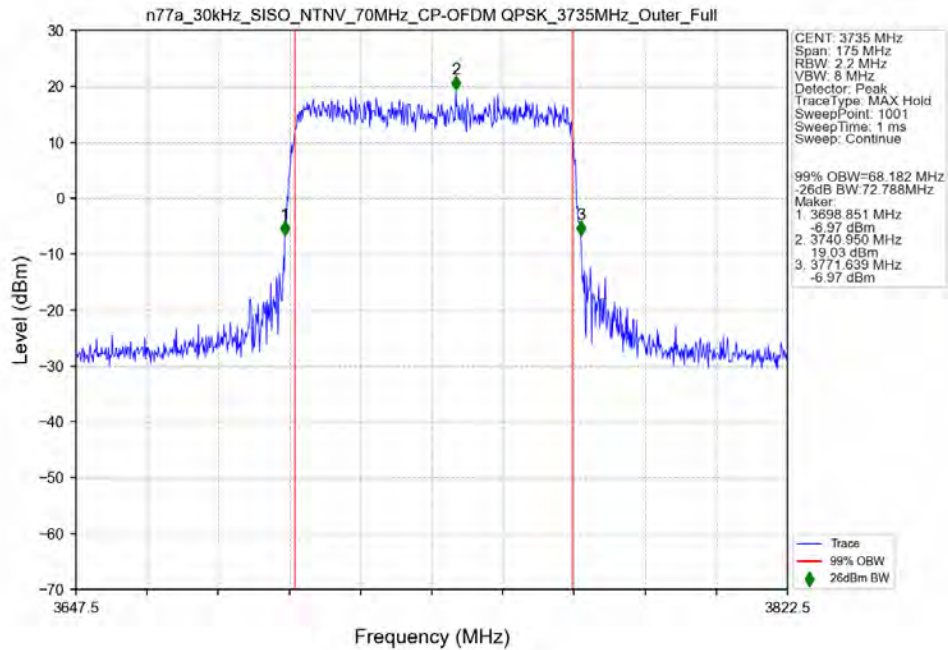
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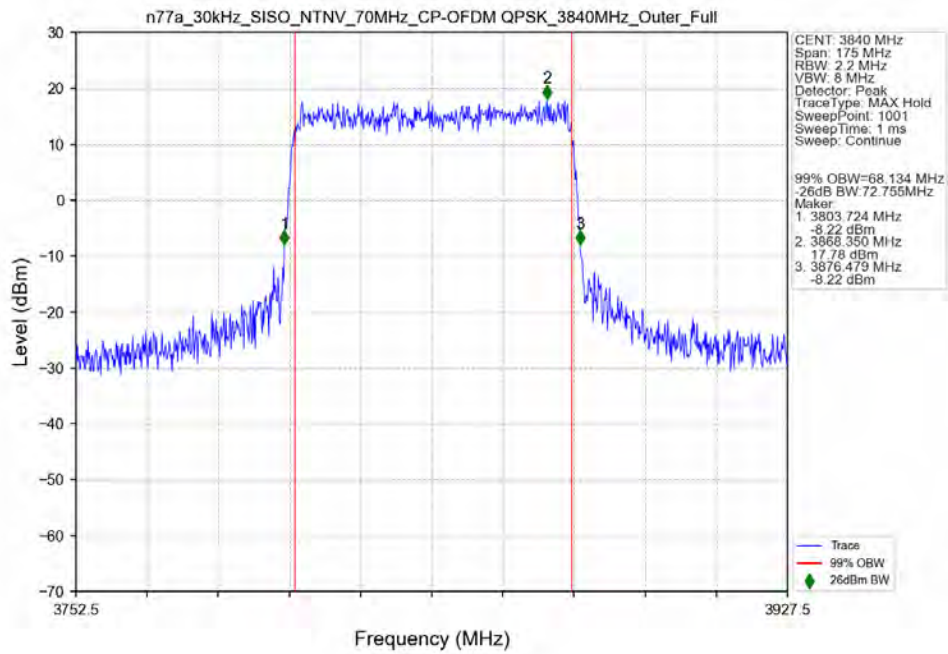
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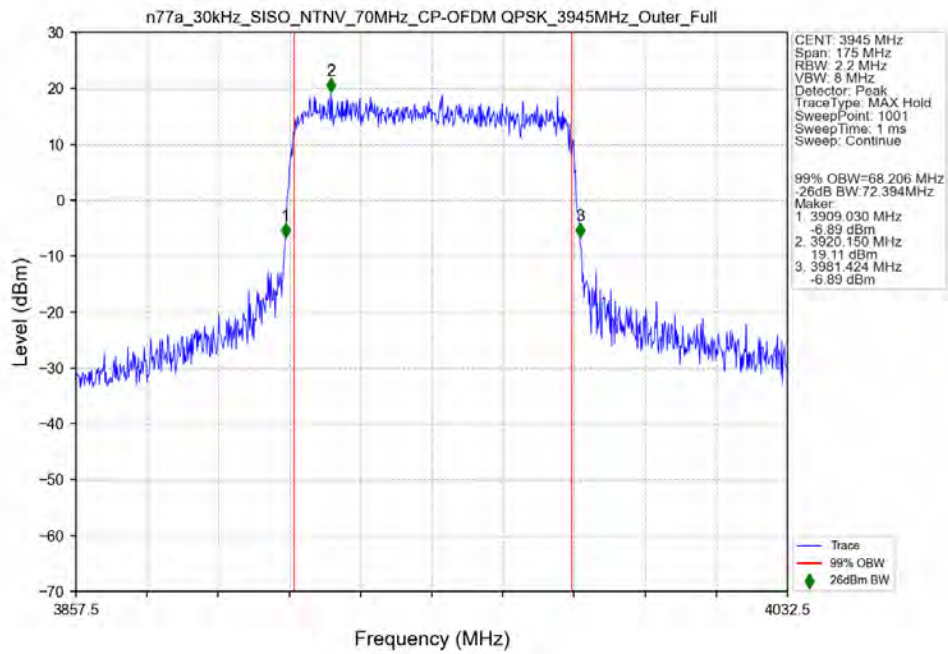
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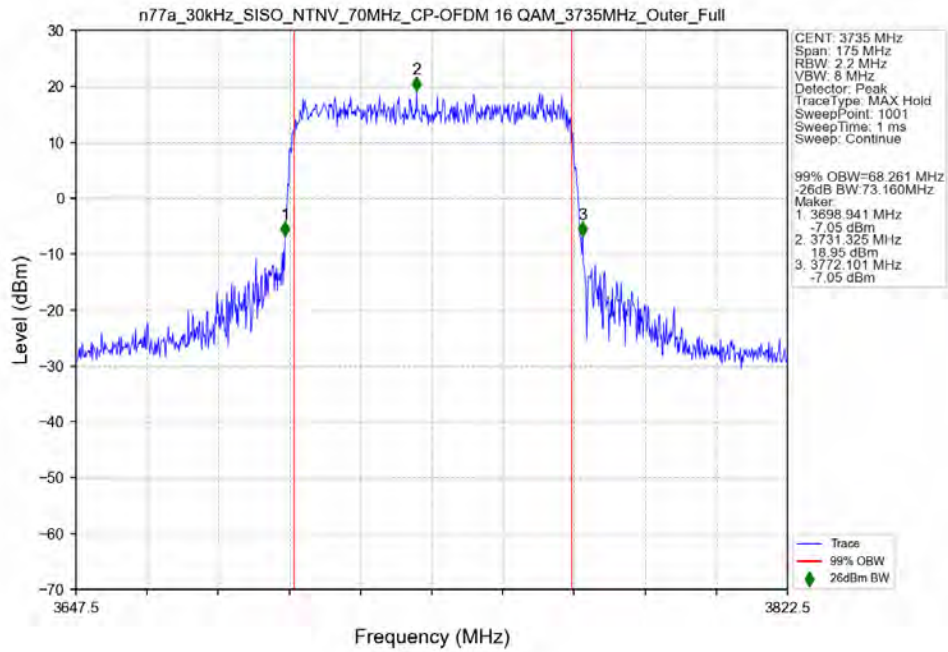
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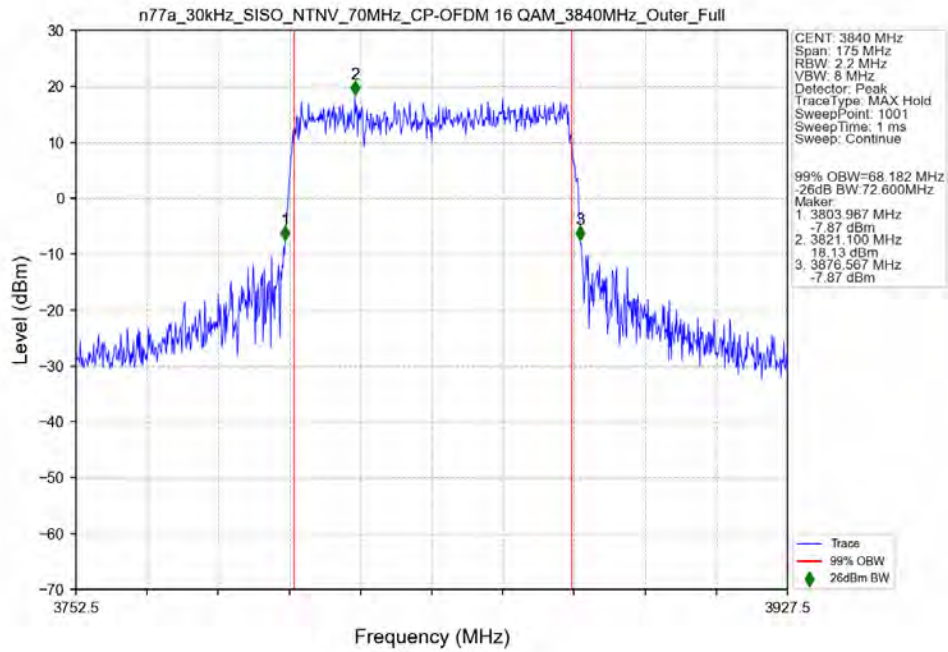
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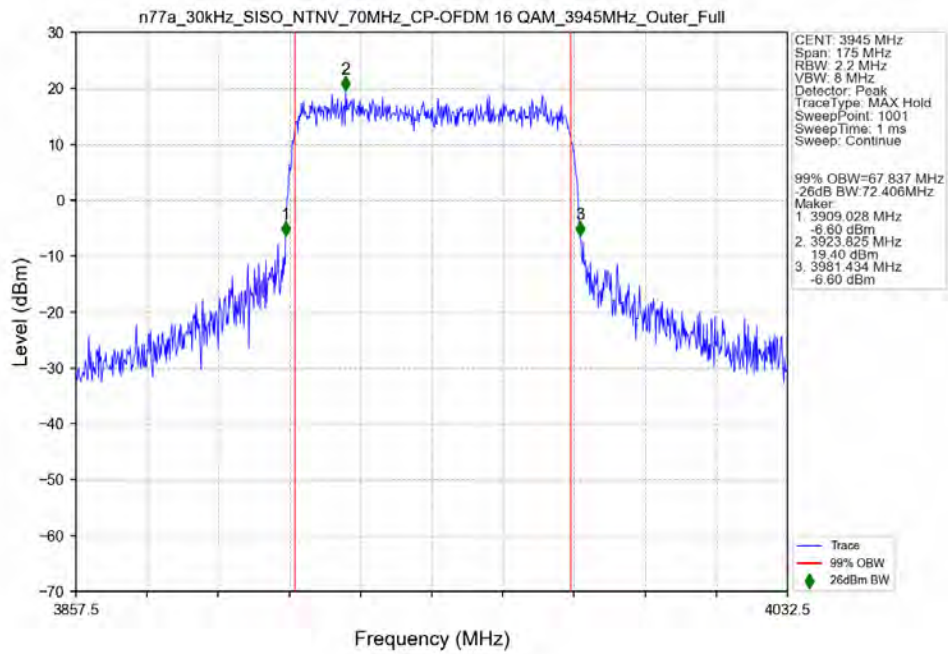
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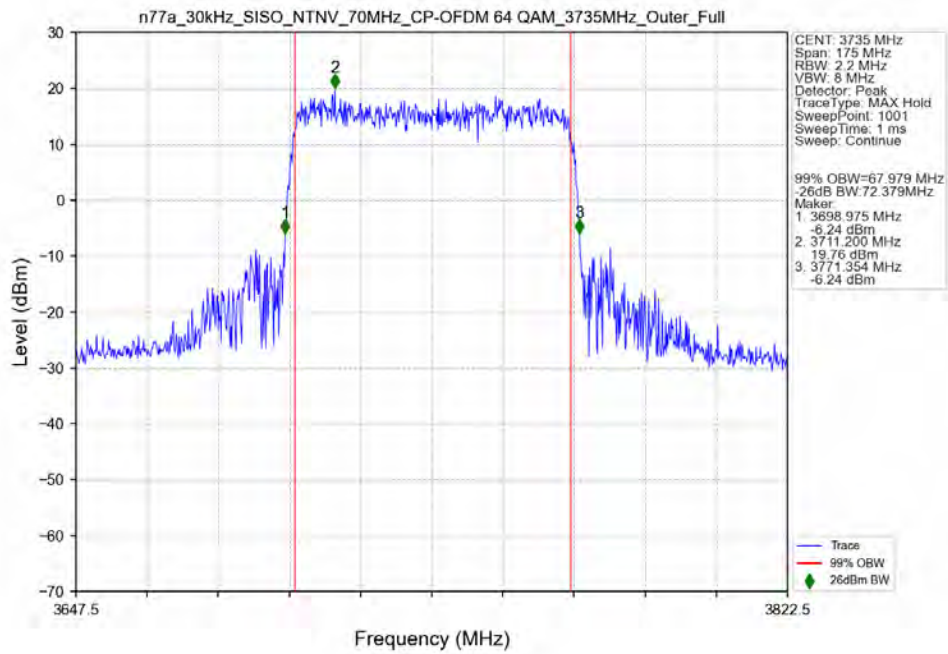
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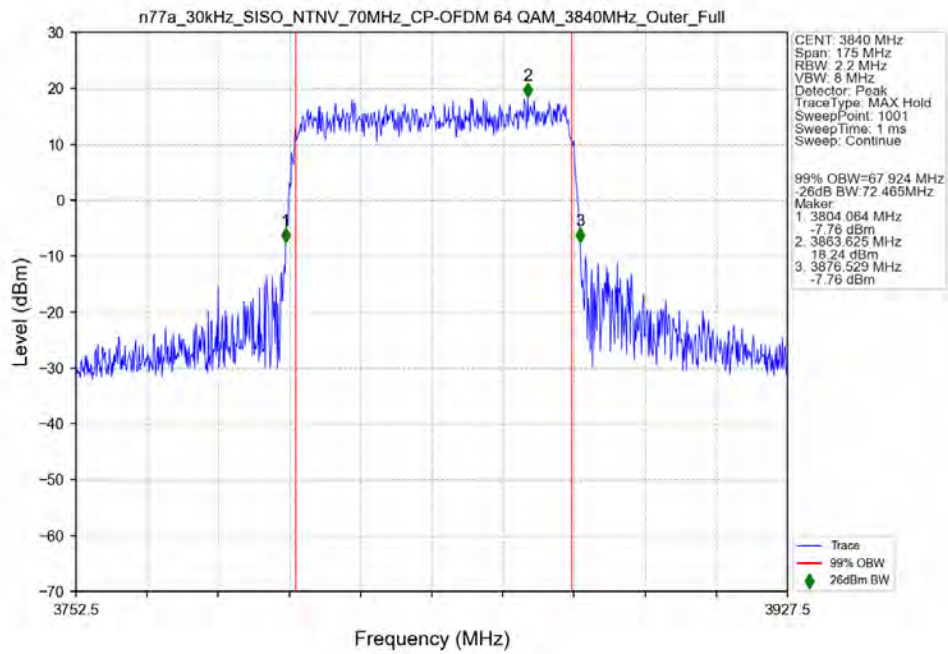
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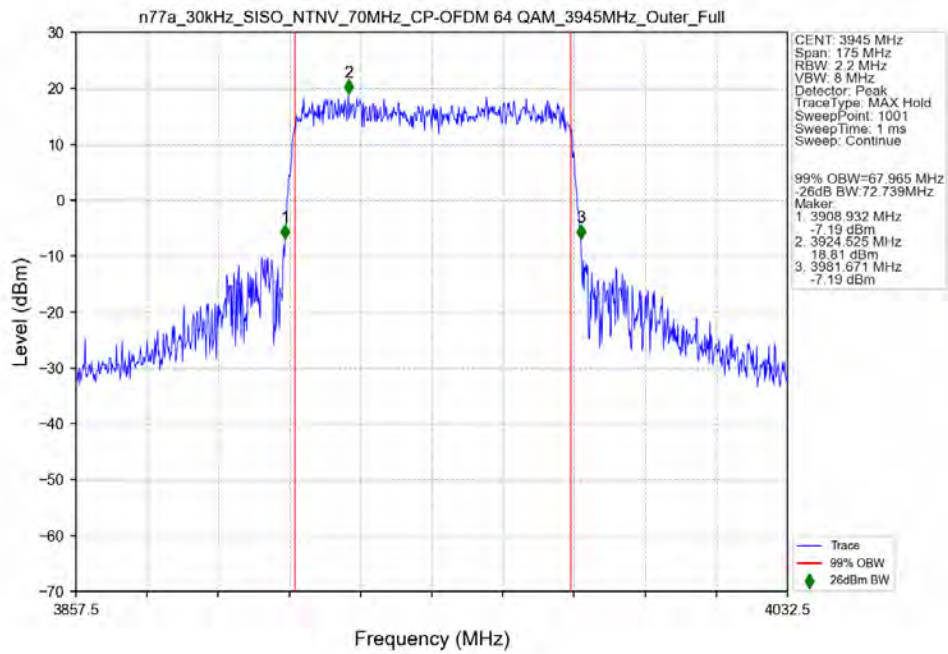
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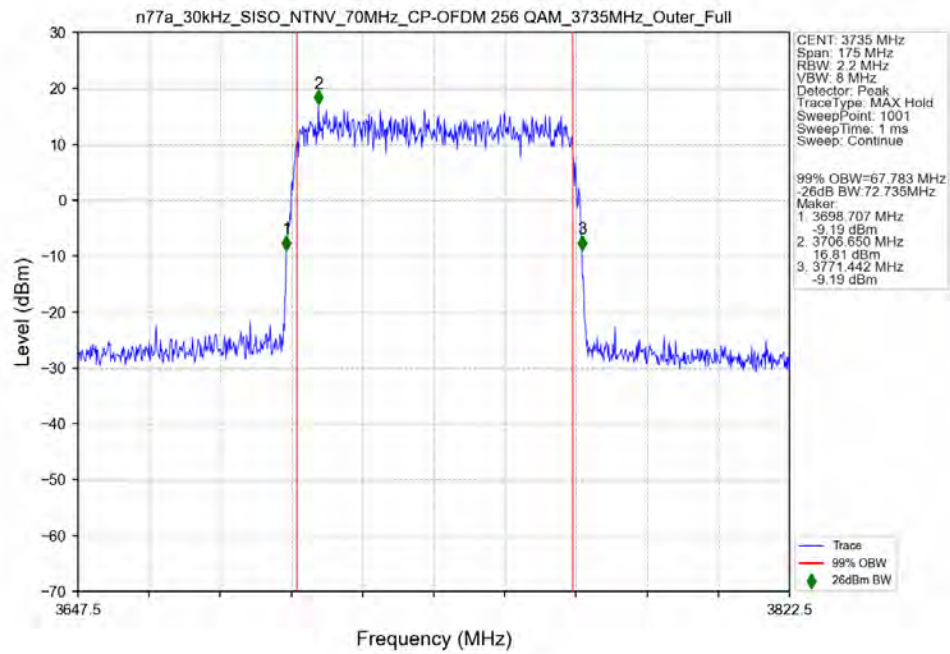
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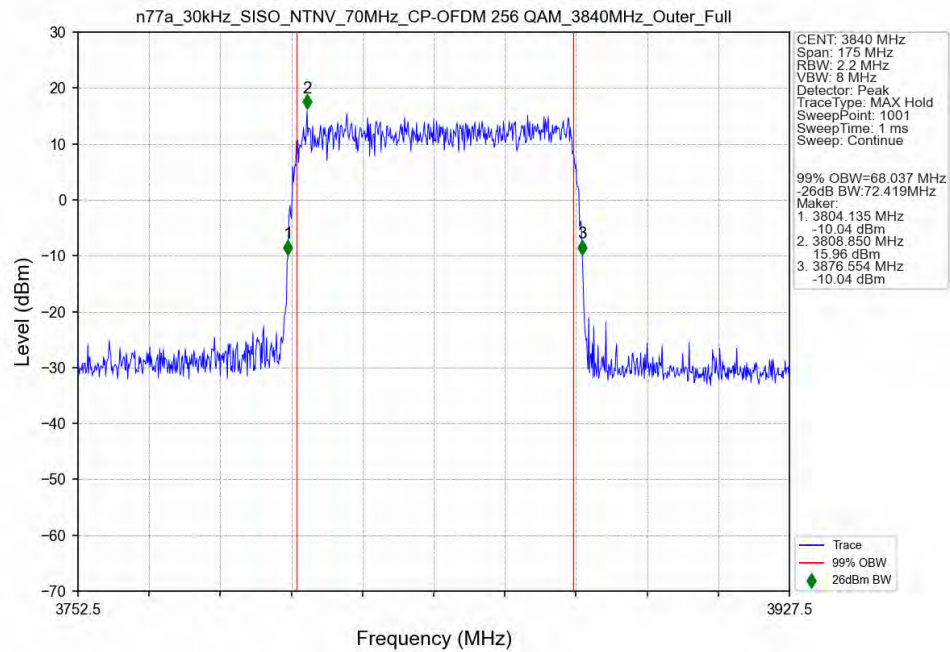
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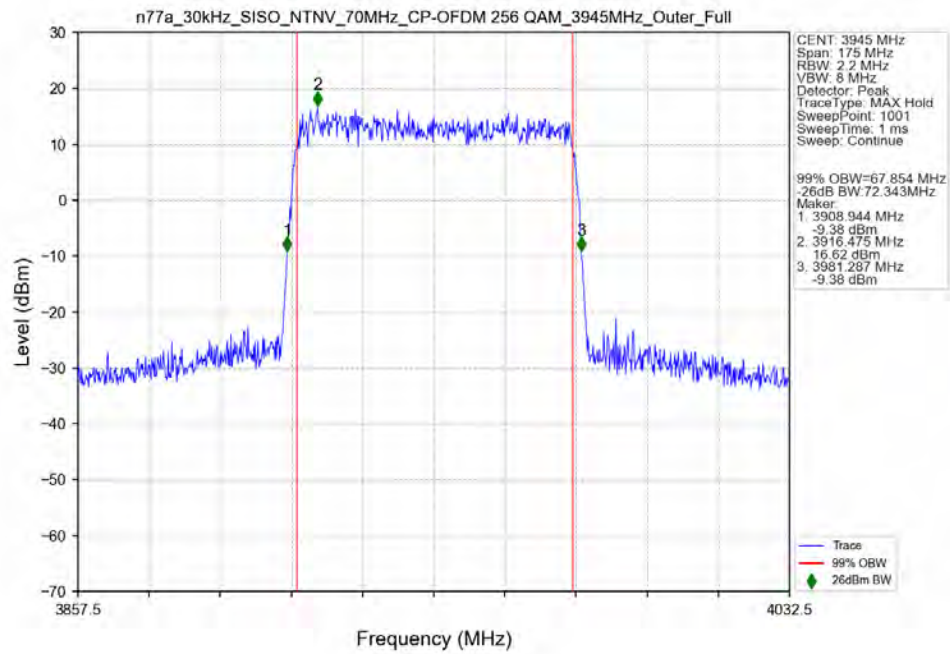
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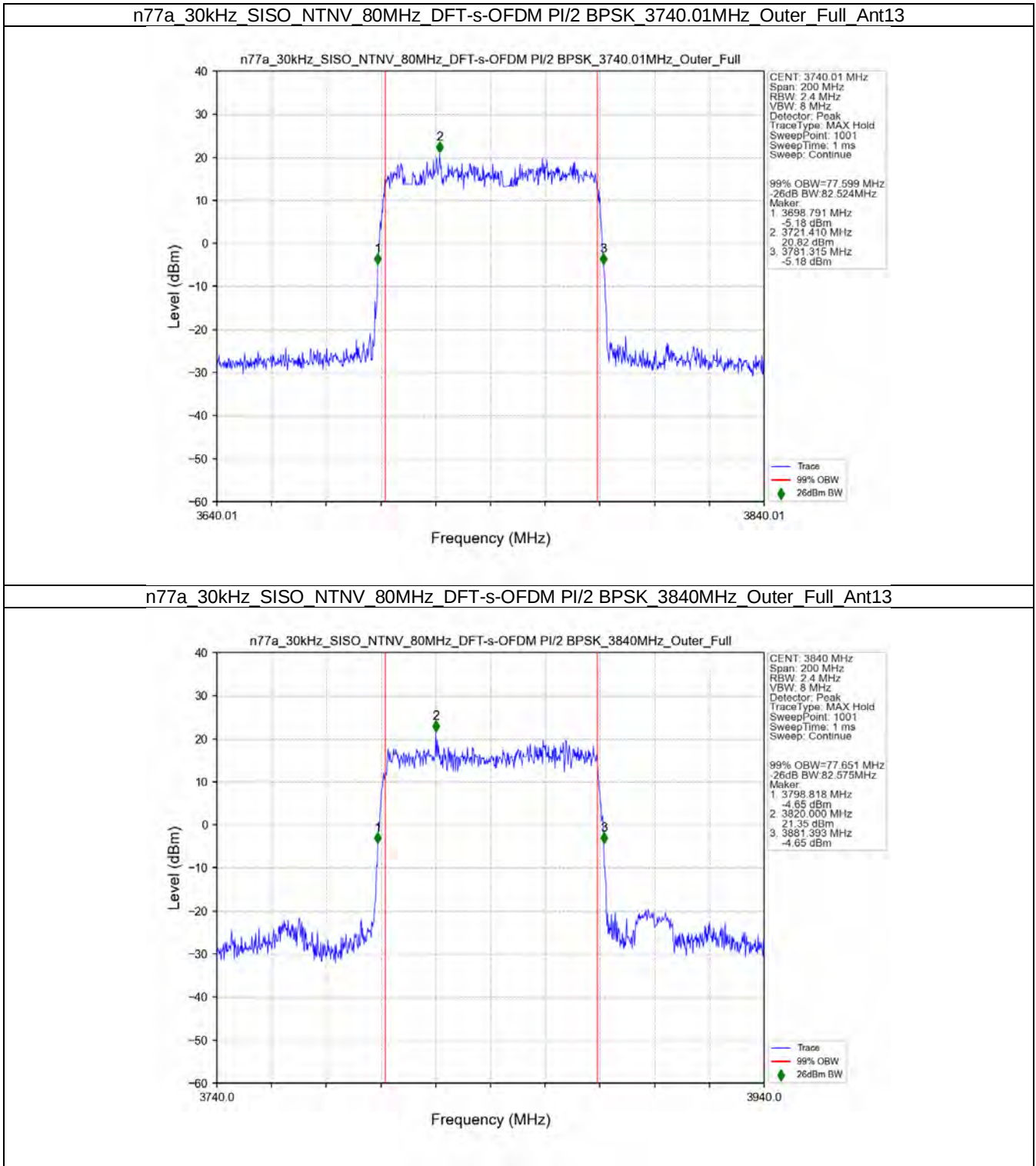
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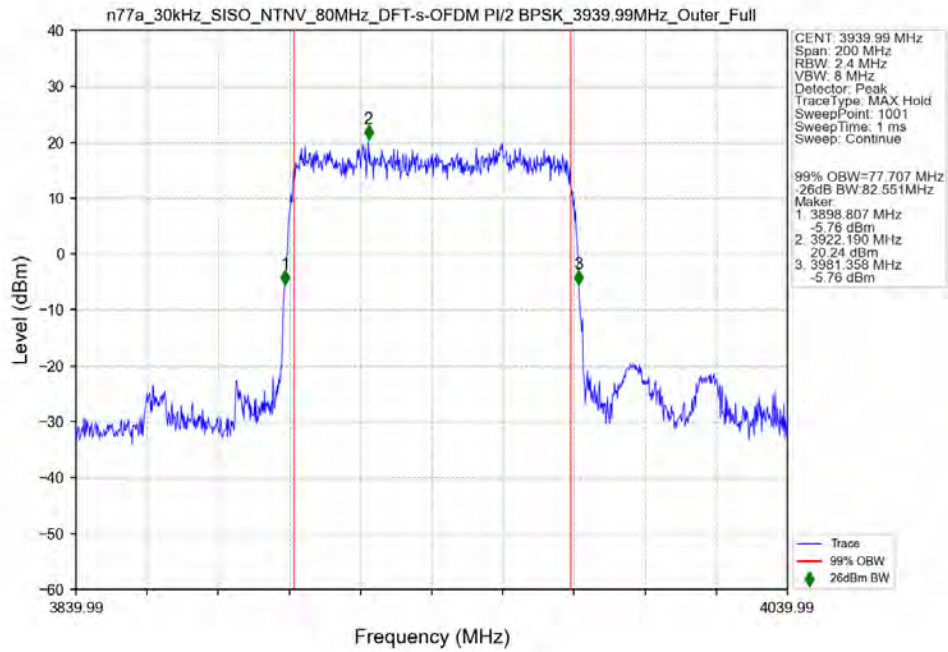
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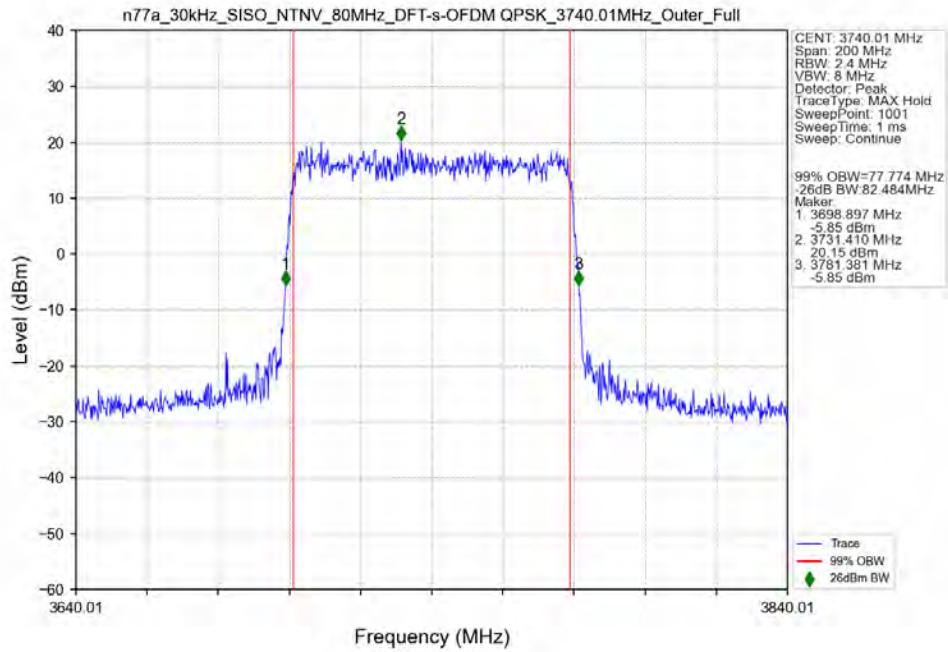
3.2.9 30k\_SISO\_80MHz\_NTNV



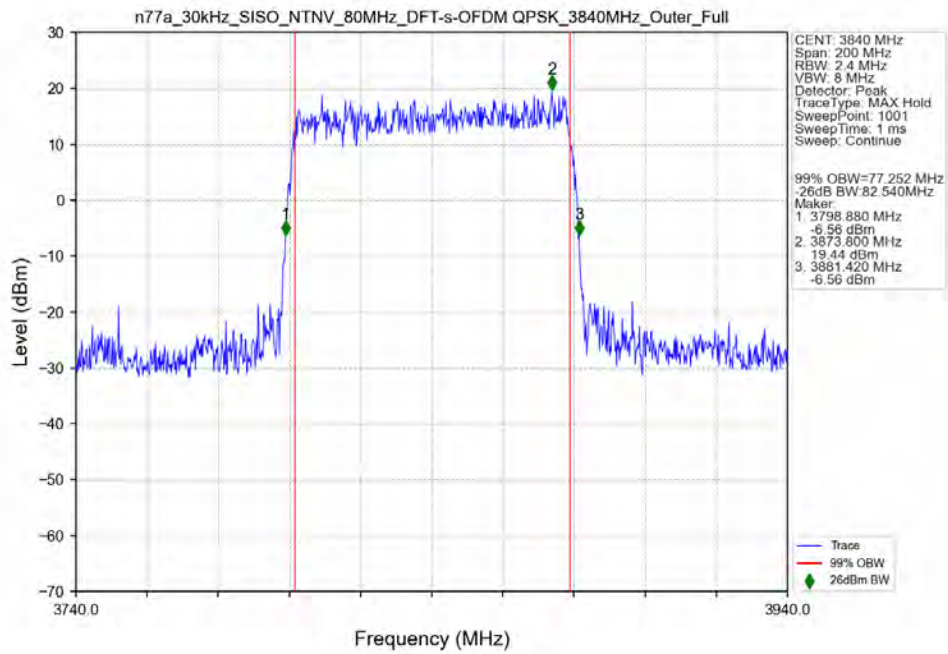
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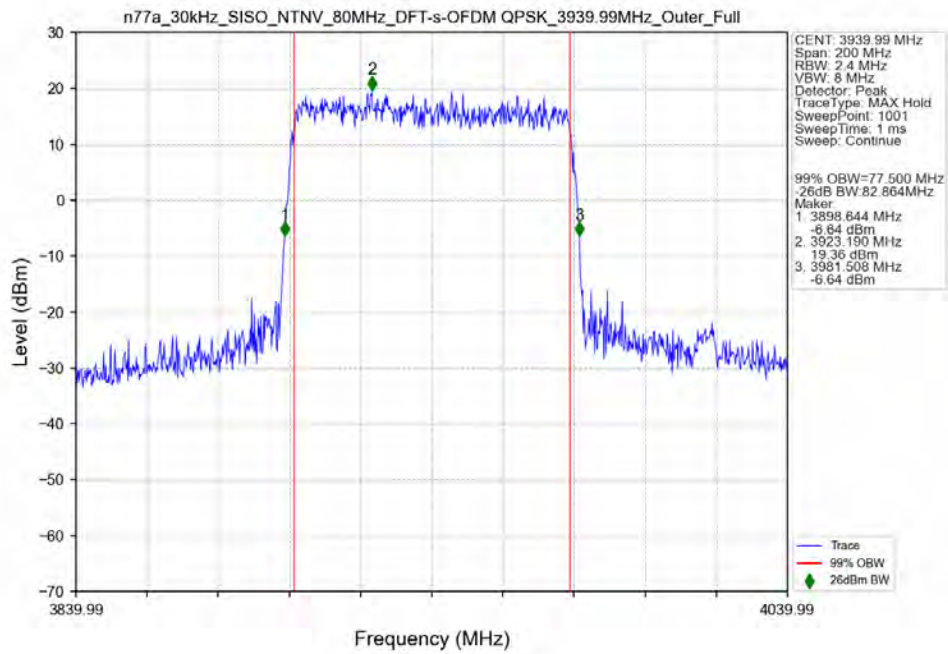
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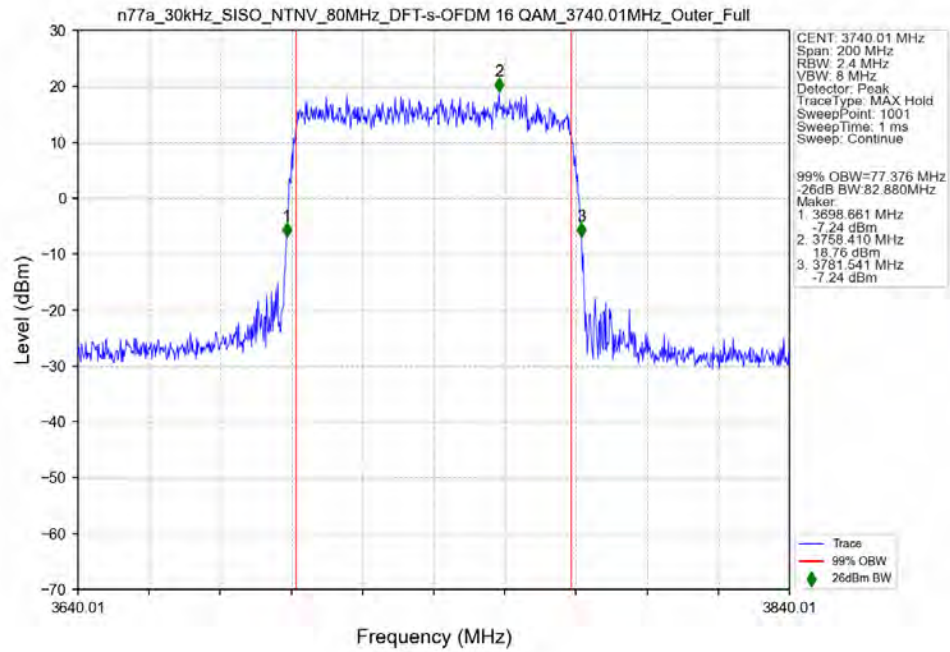
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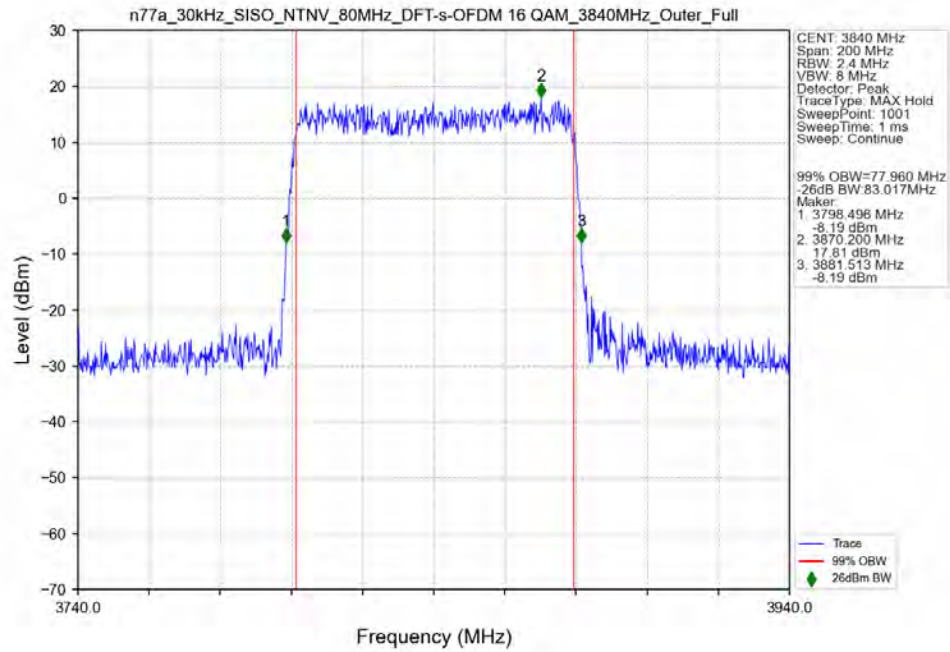
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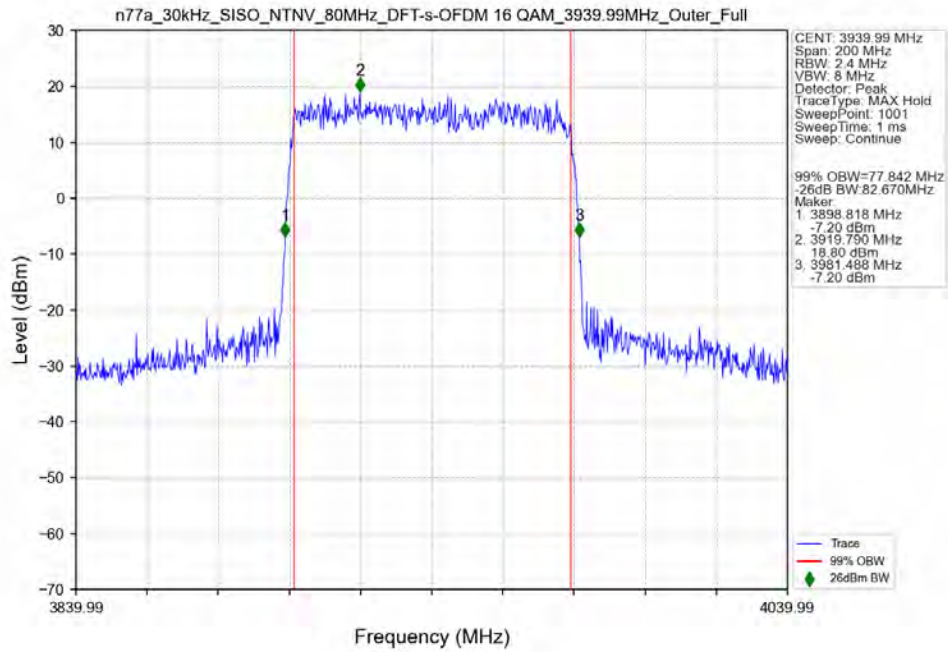
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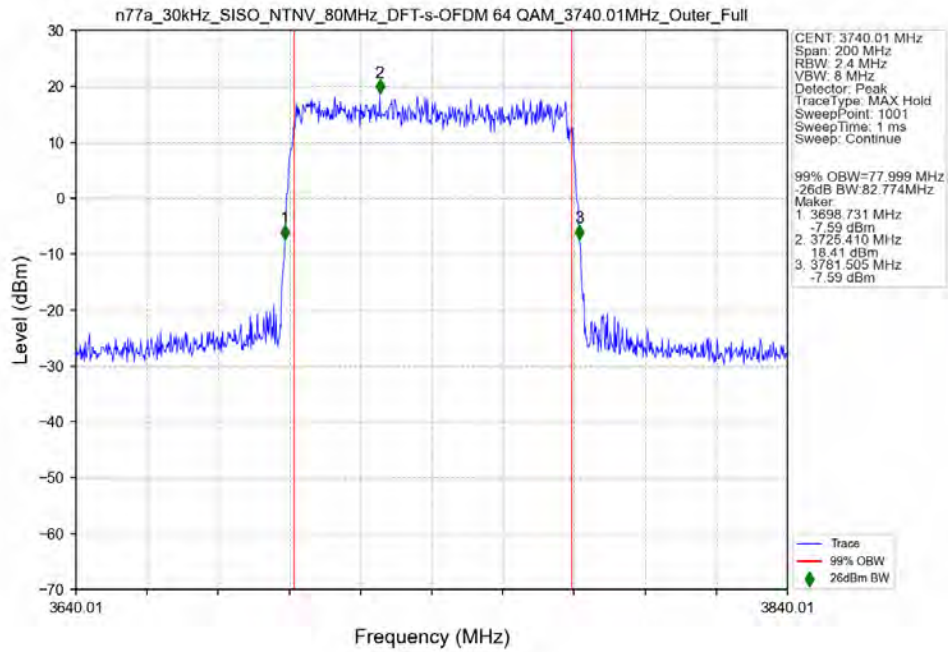
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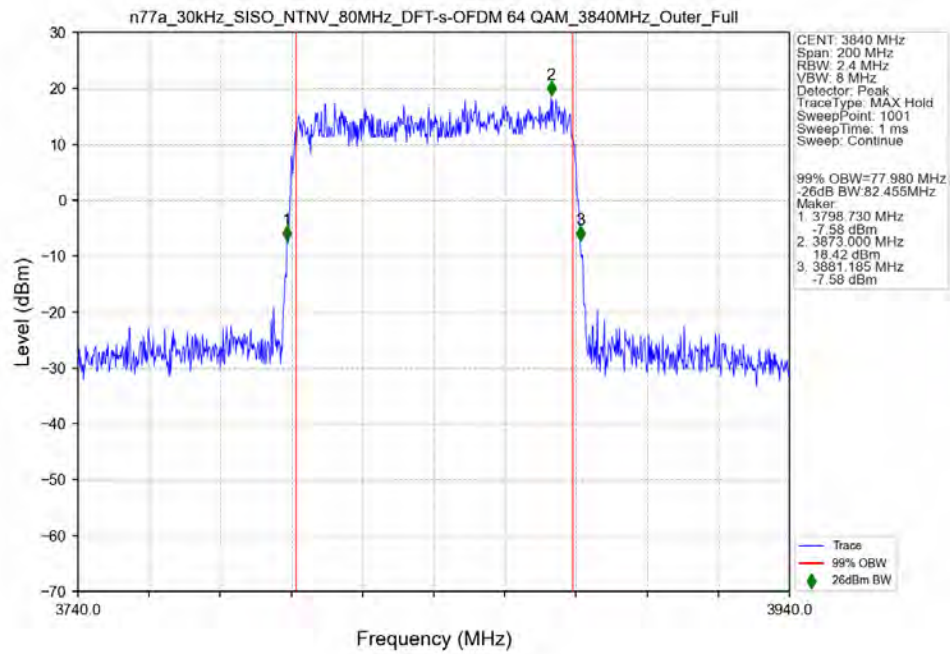
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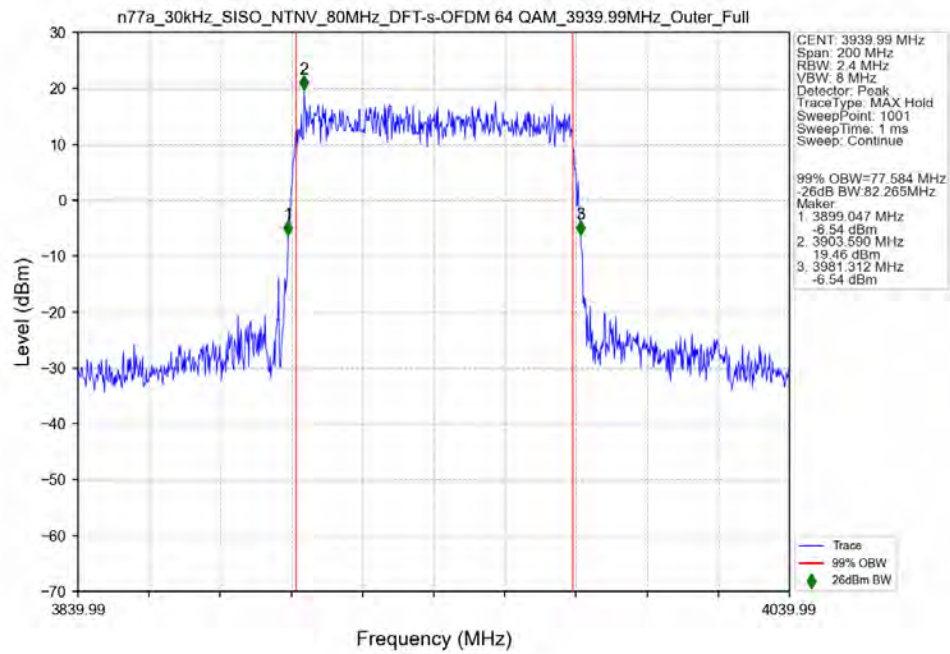
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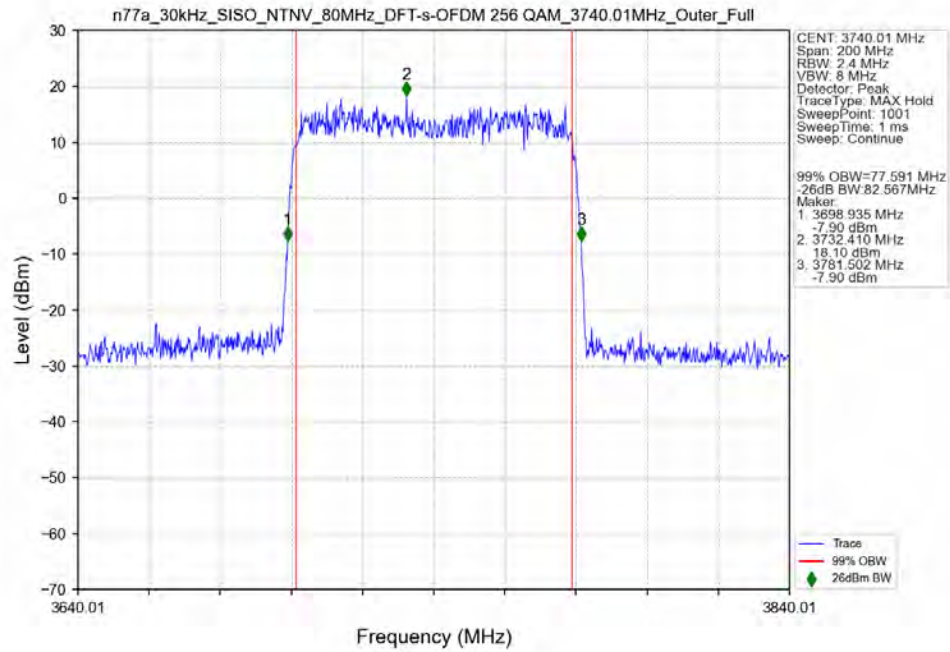
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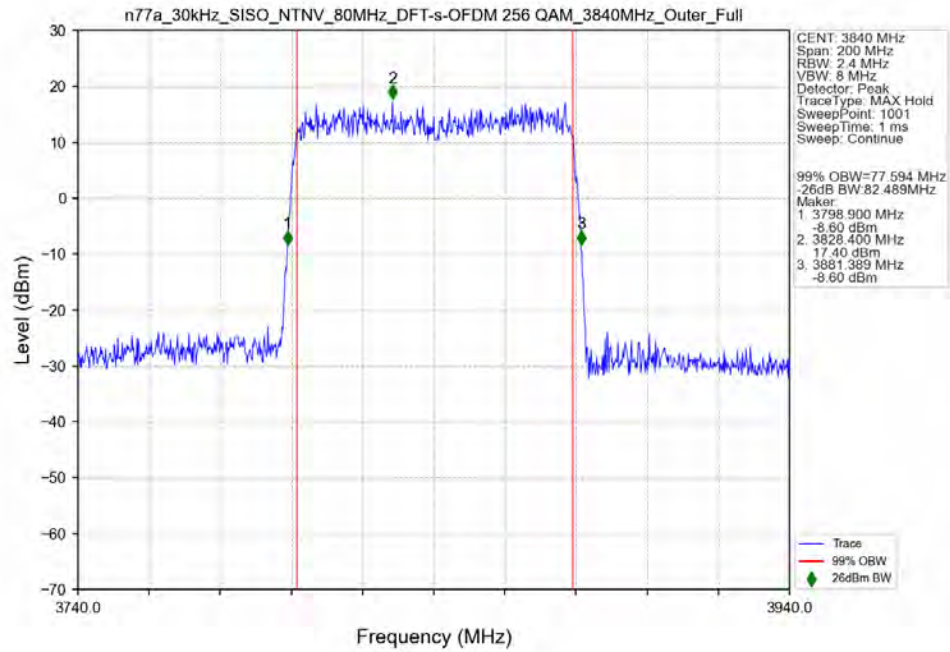
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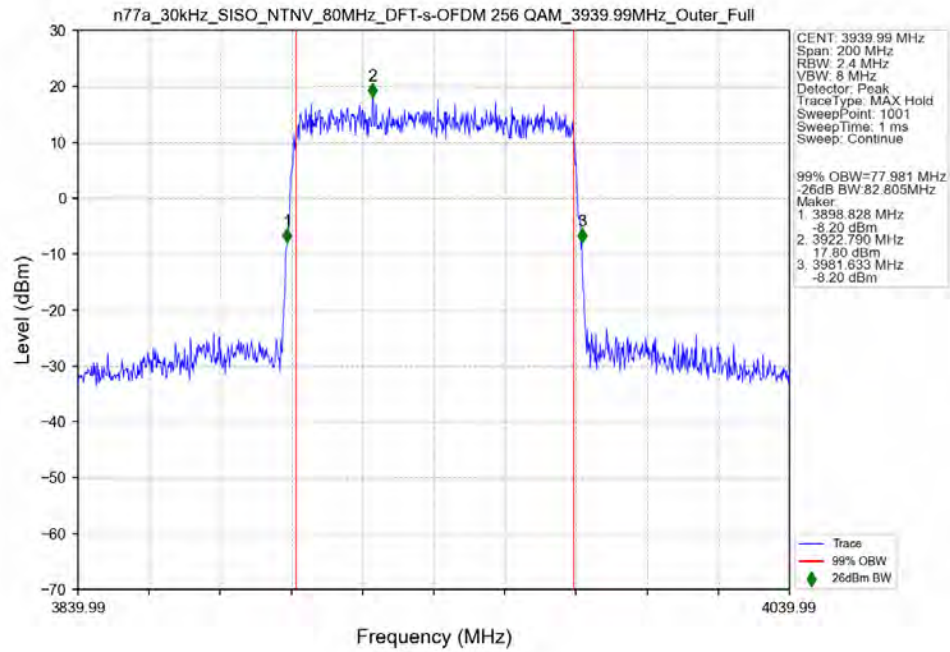
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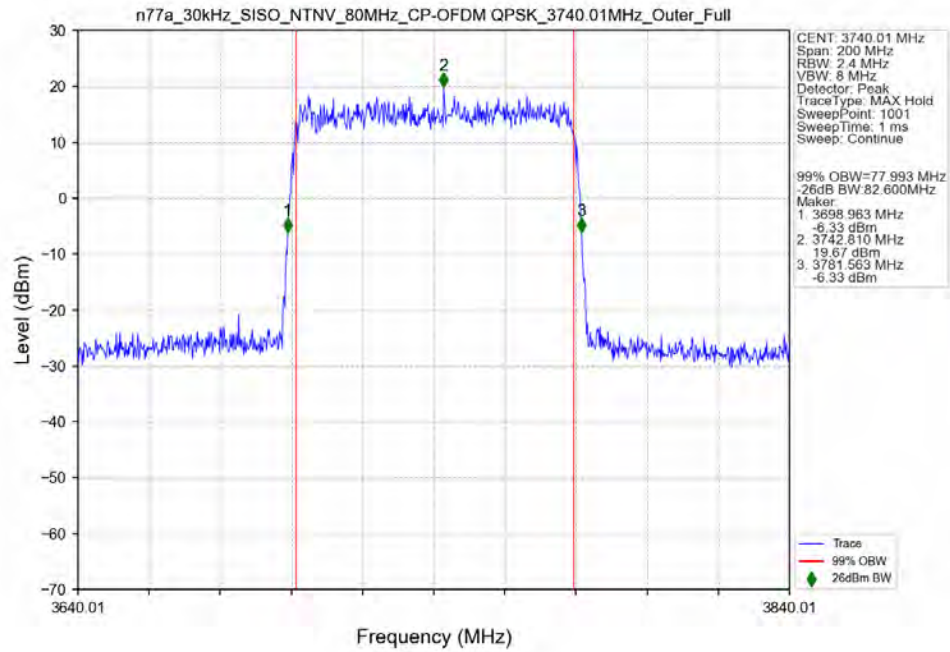
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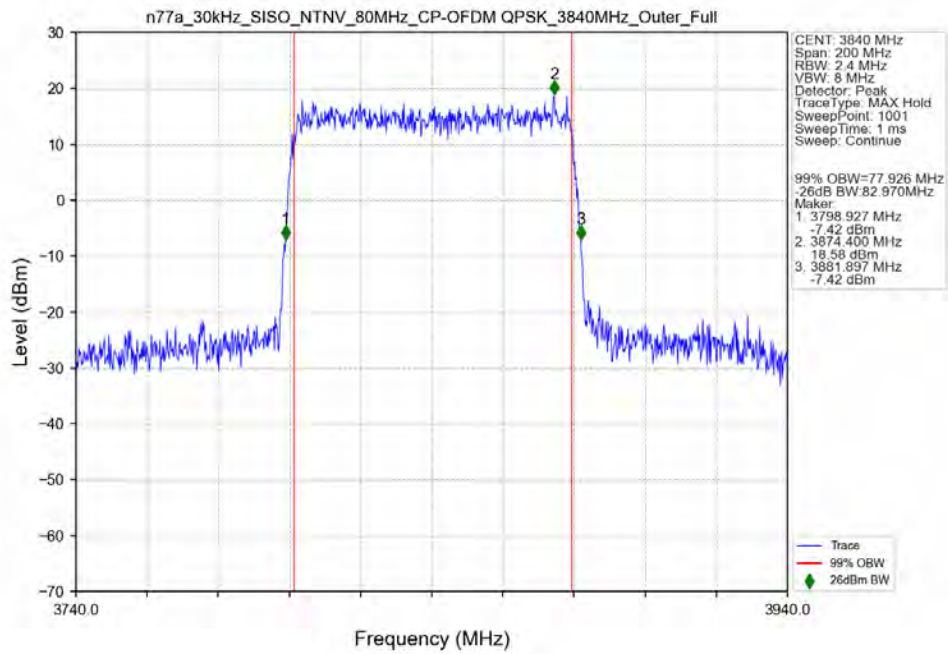
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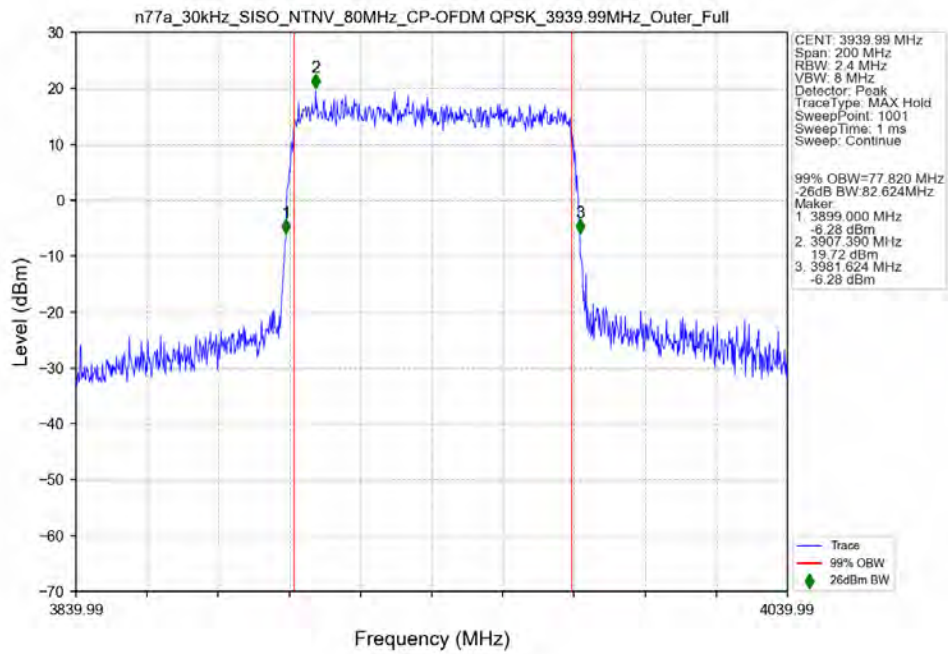
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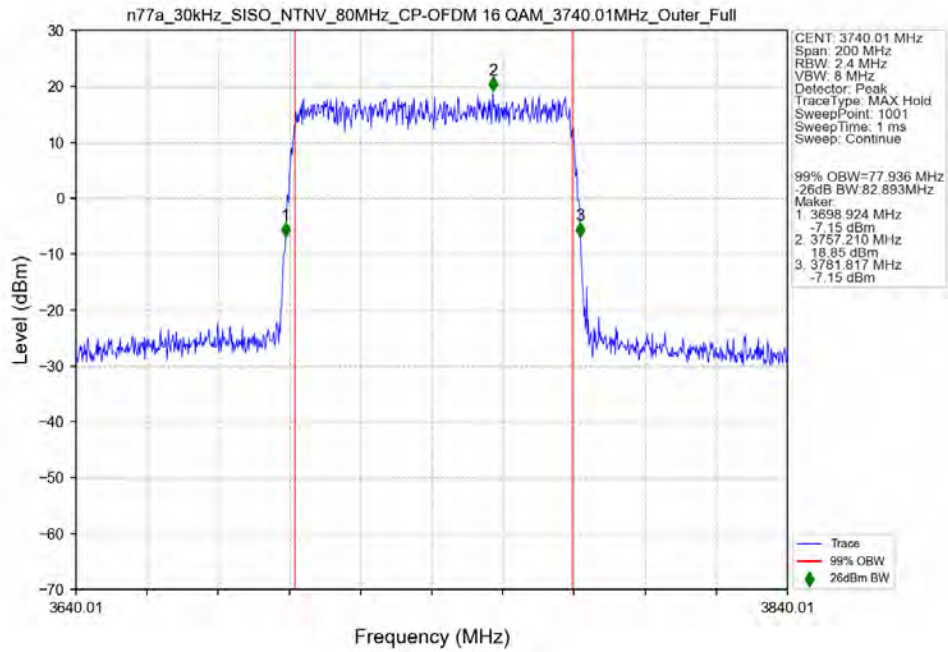
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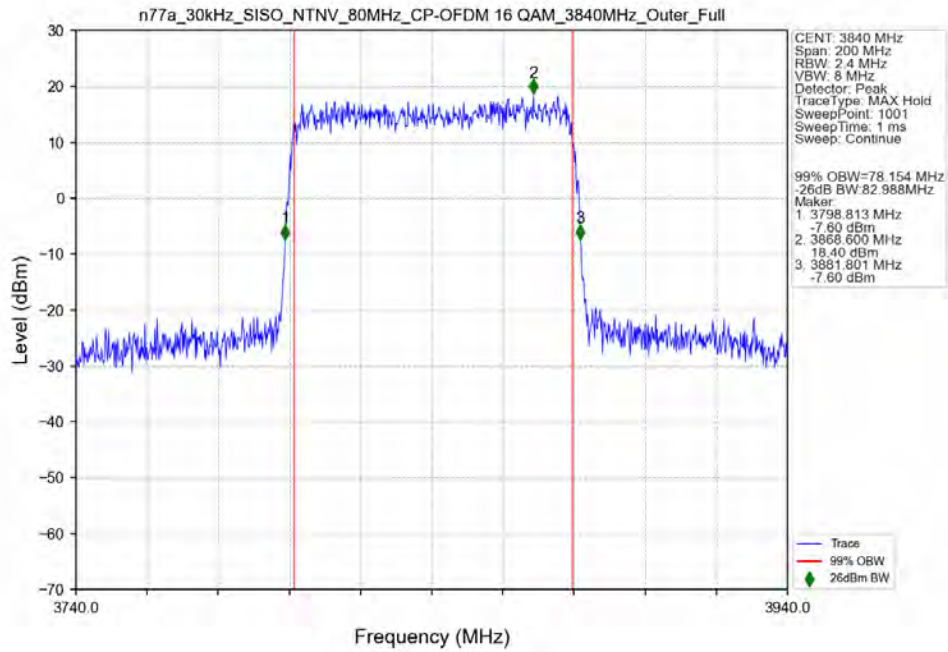
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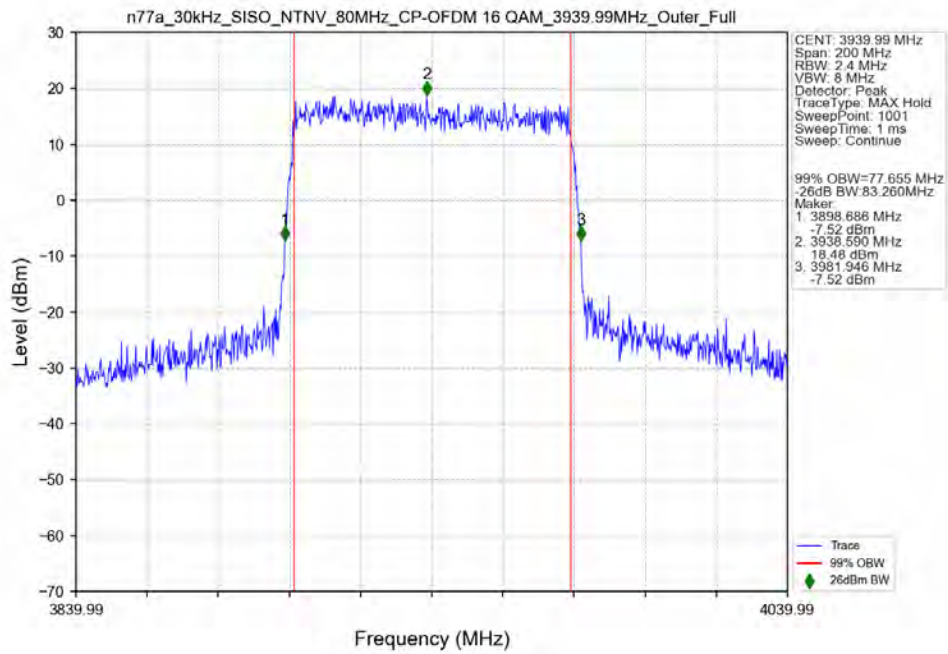
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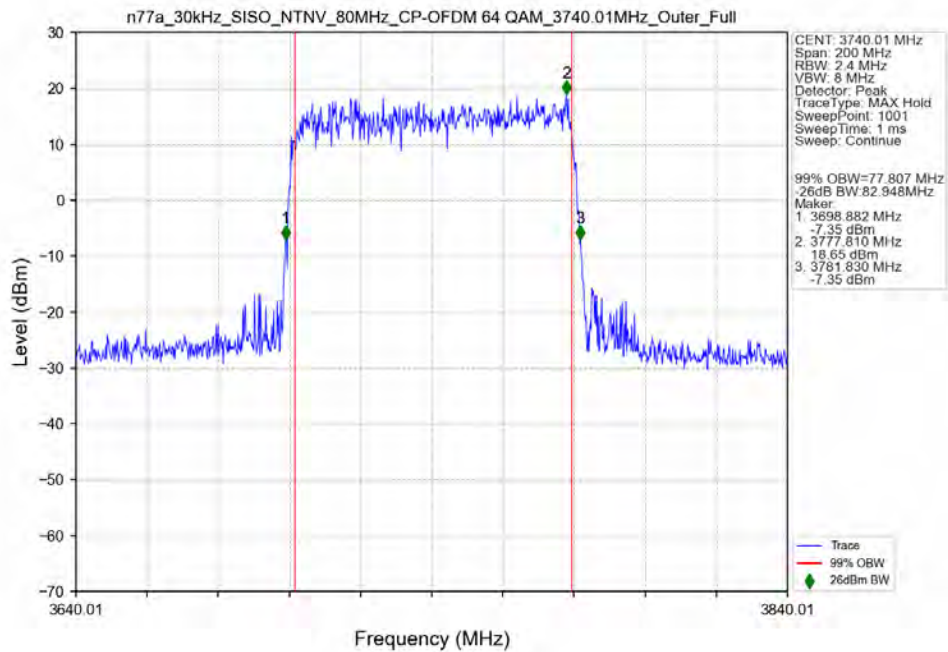
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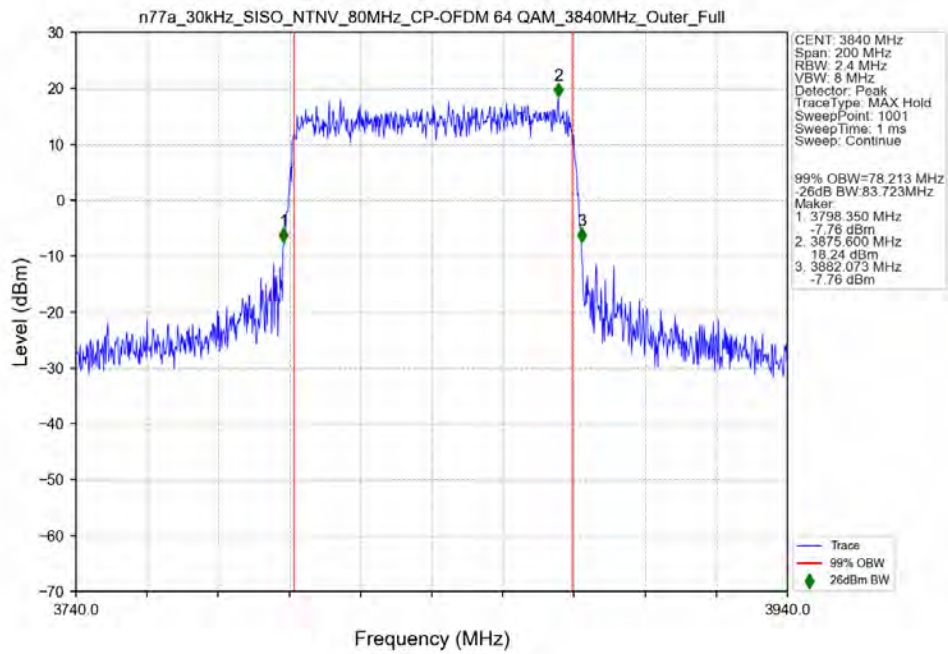
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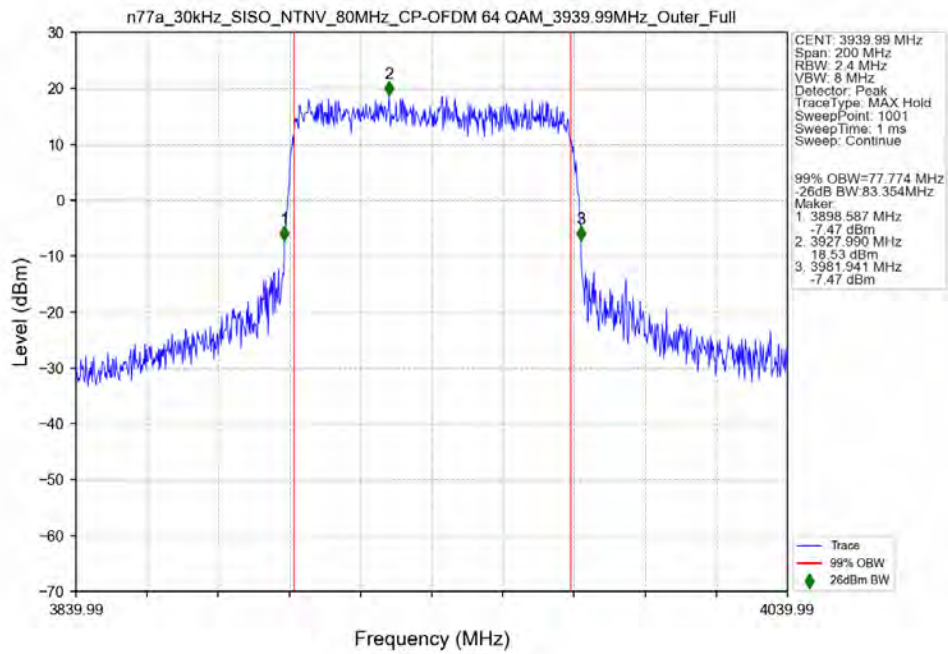
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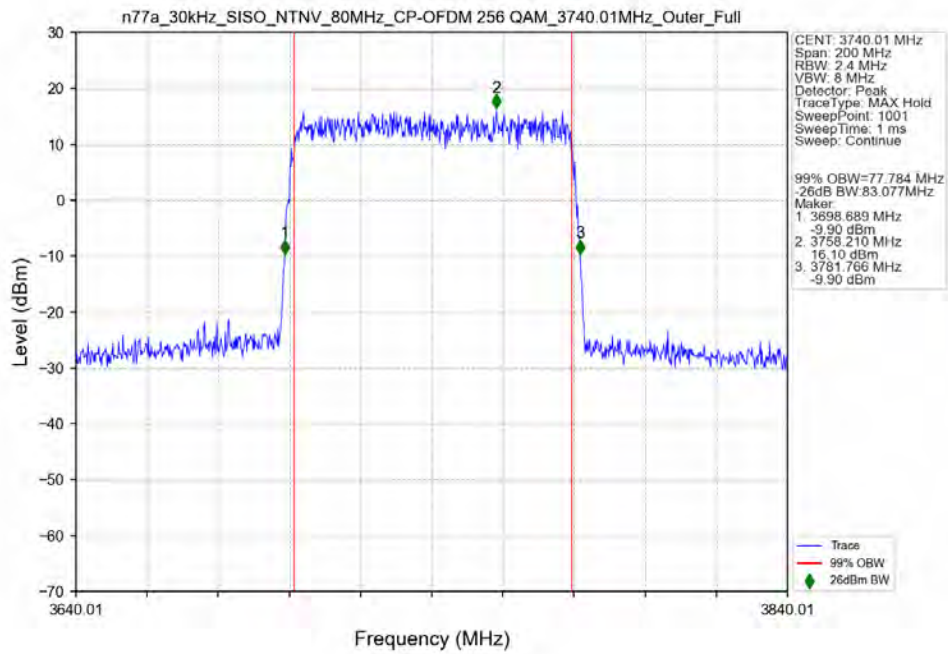
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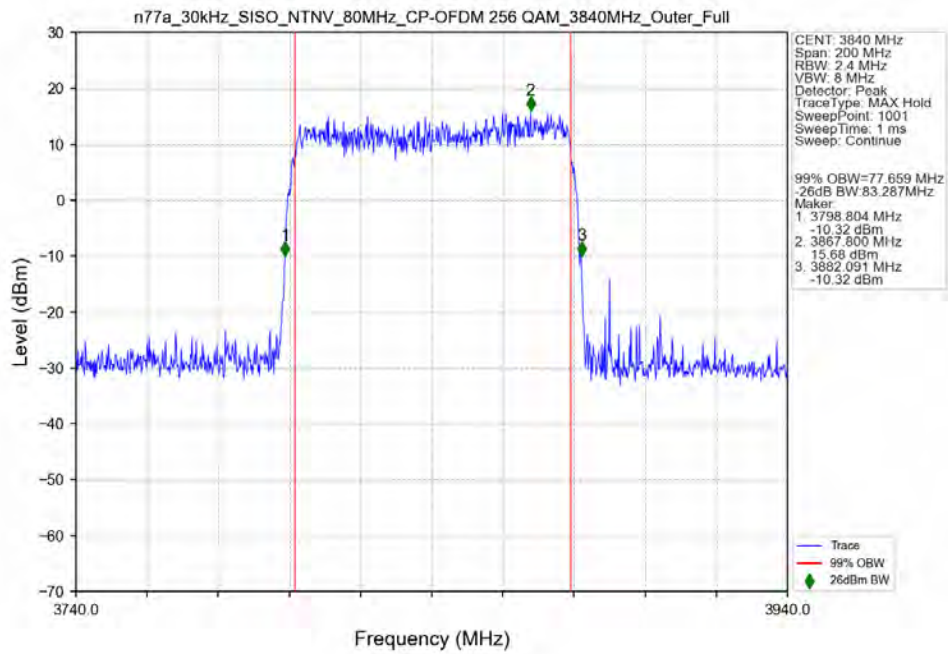
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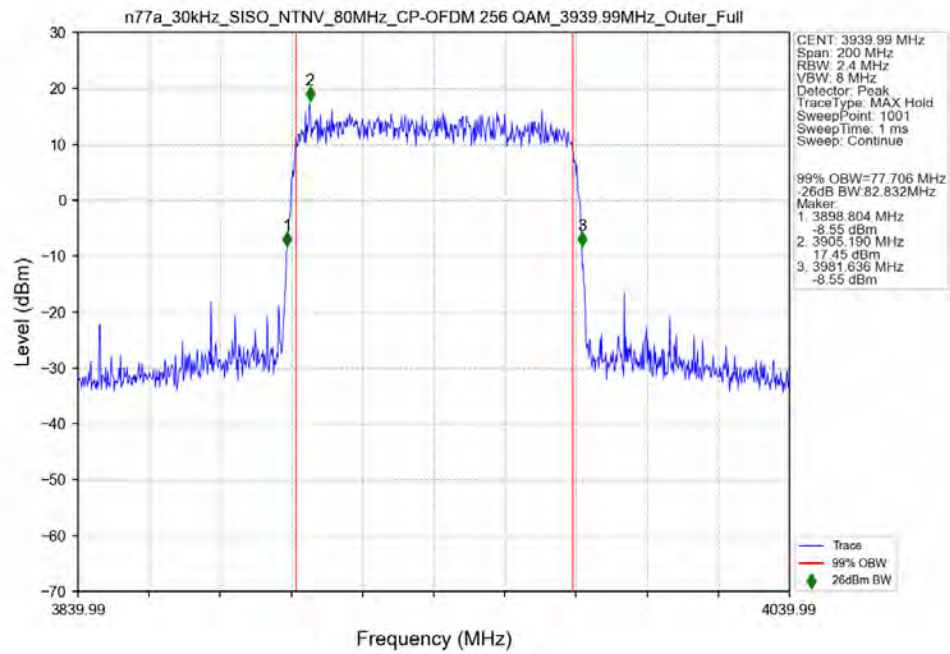
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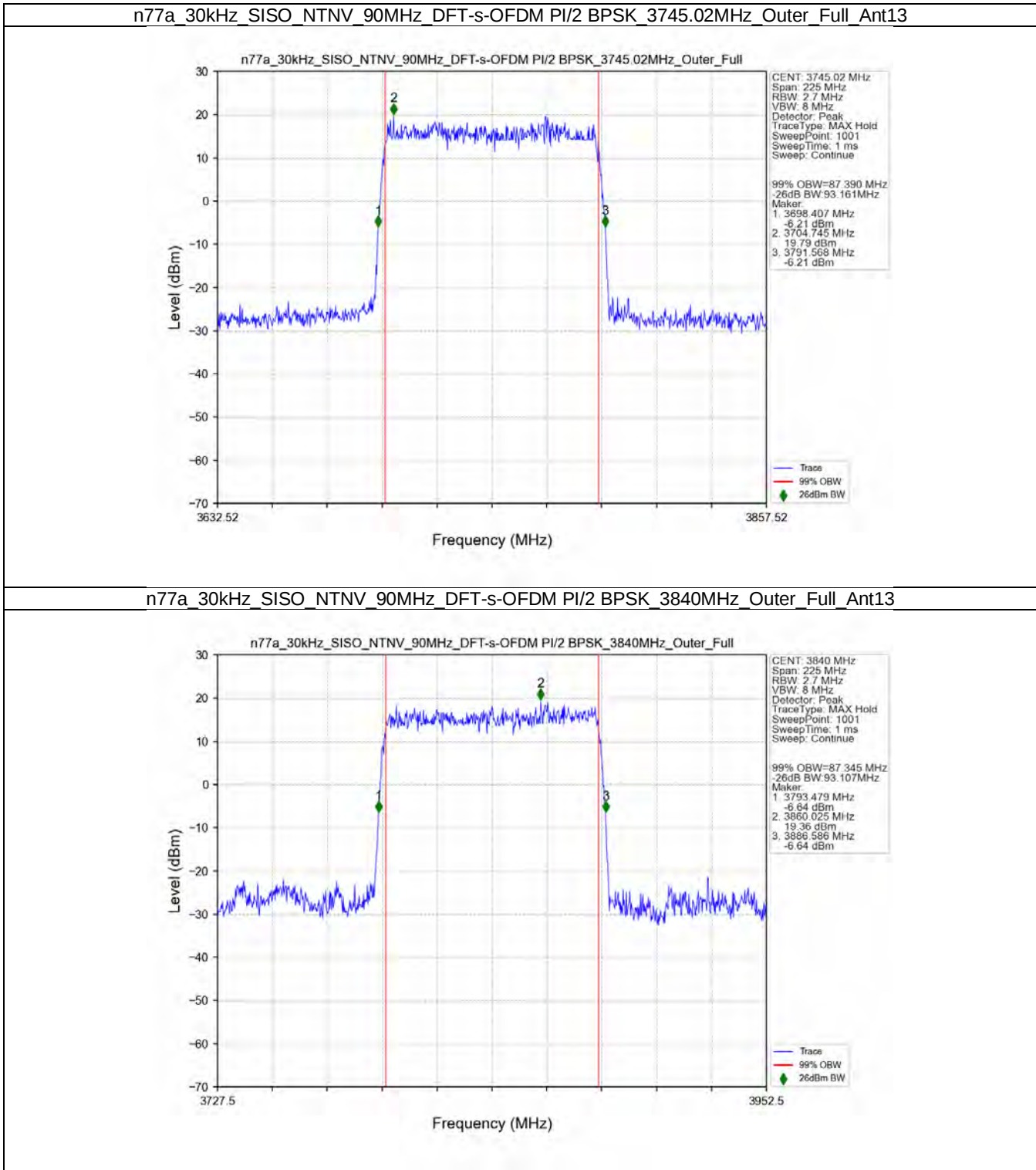
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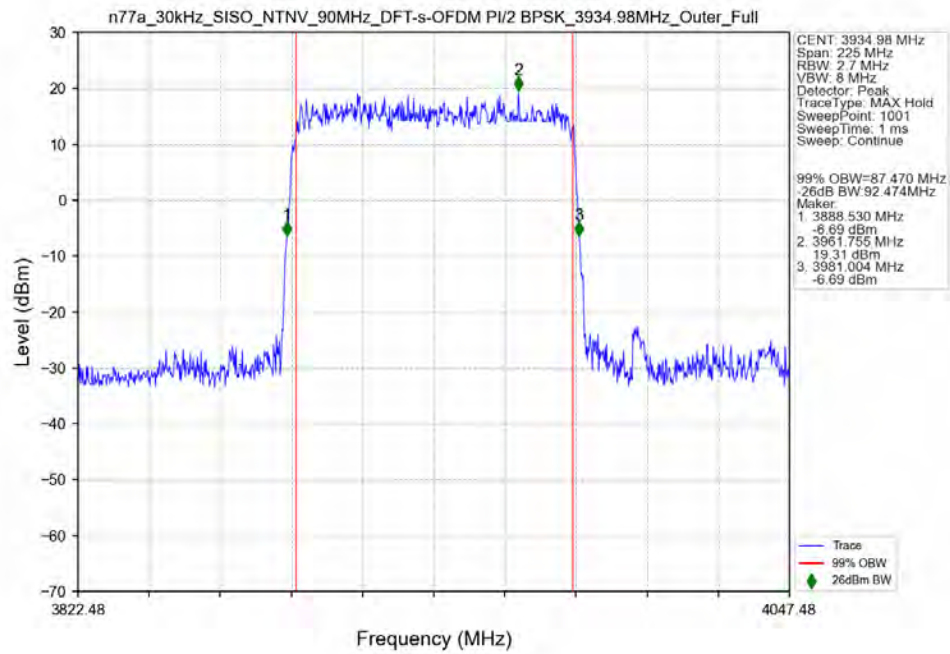
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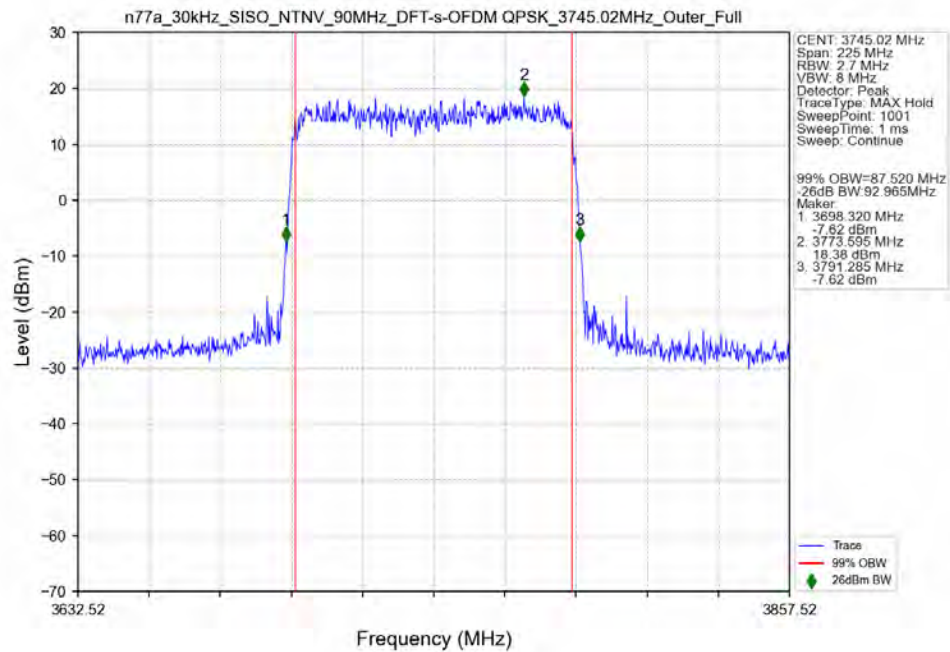
3.2.10 30k\_SISO\_90MHz\_NTNV



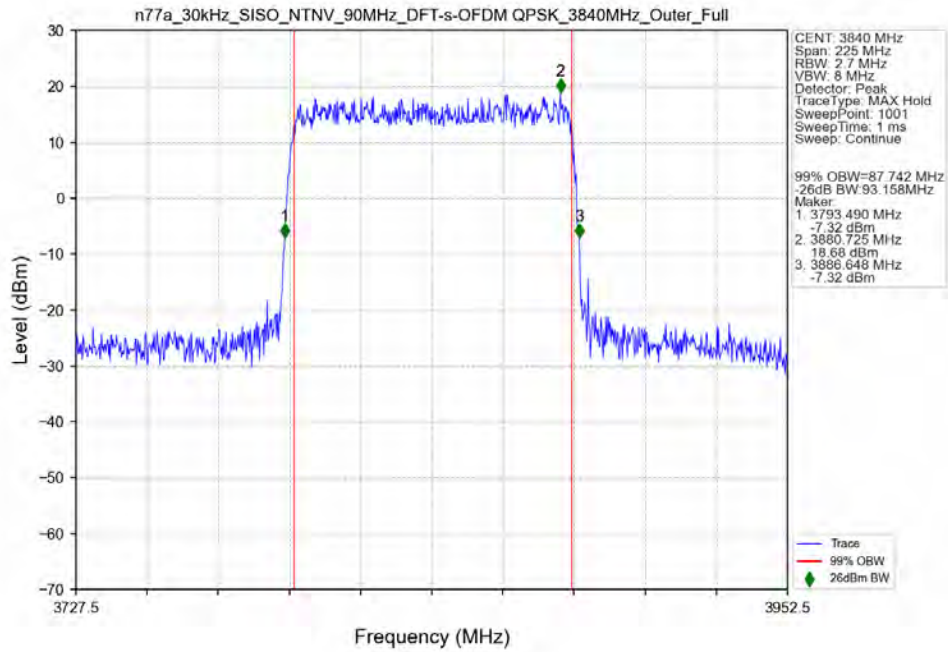
n77a 30kHz SISO NTN 90MHz DFT-s-OFDM PI/2 BPSK 3934.98MHz Outer Full Ant13



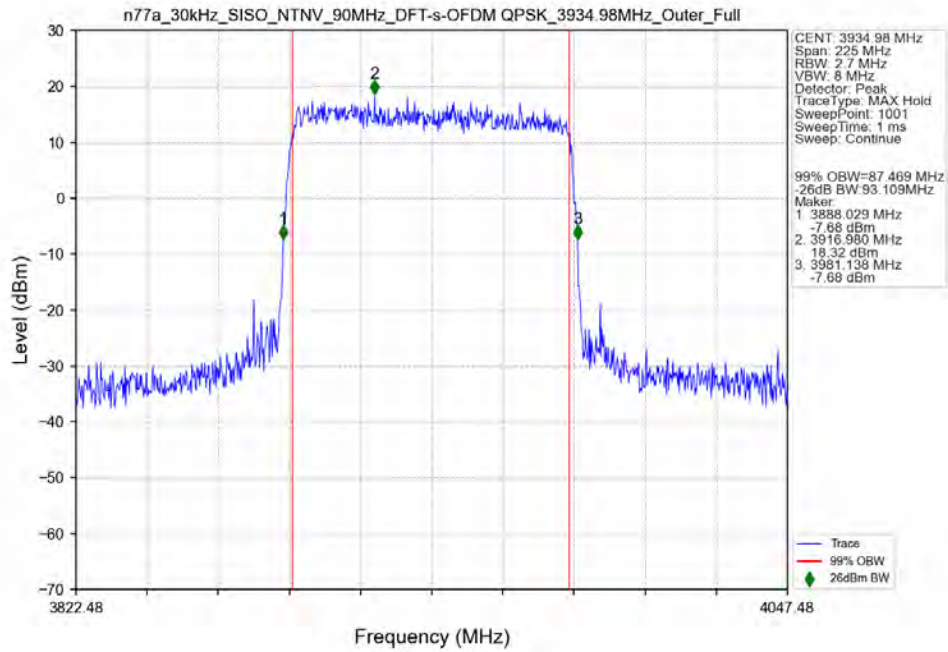
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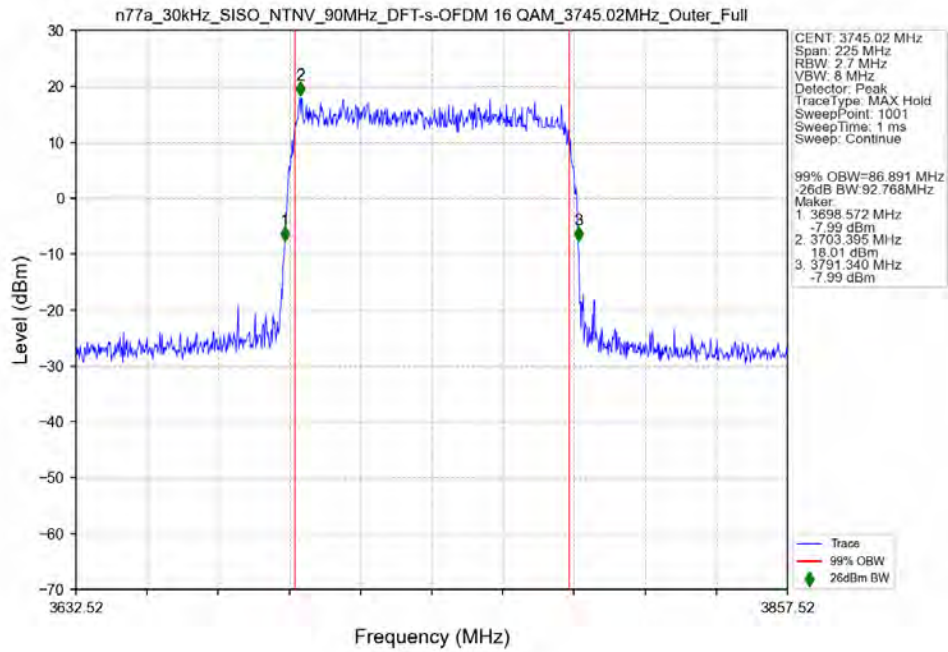
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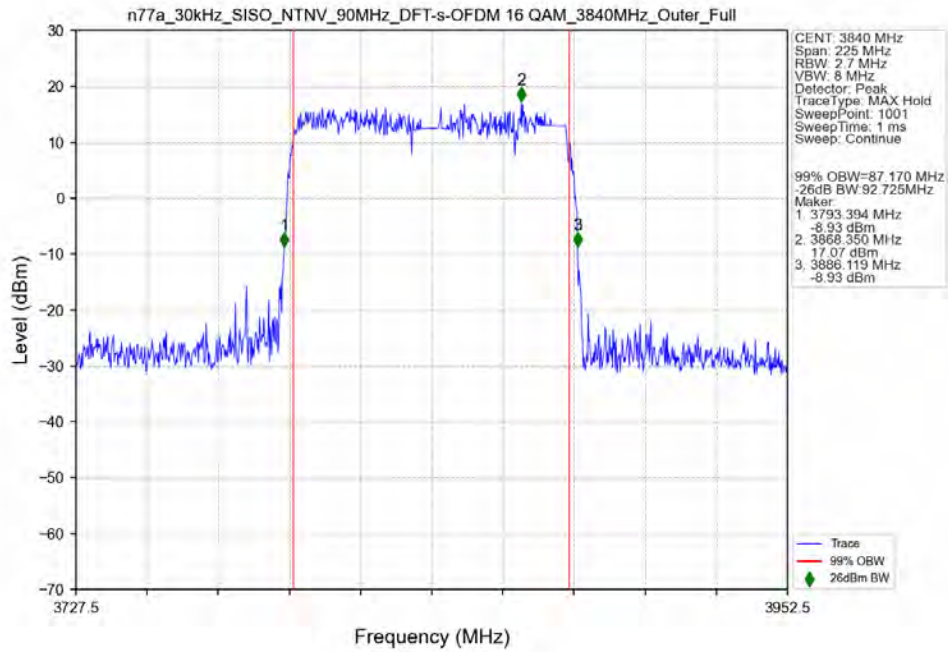
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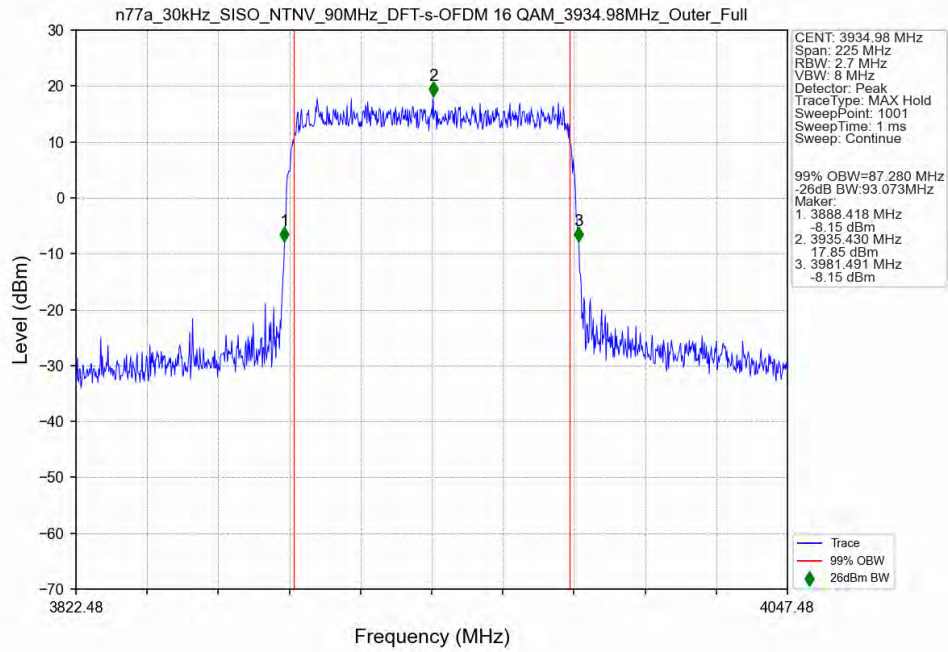
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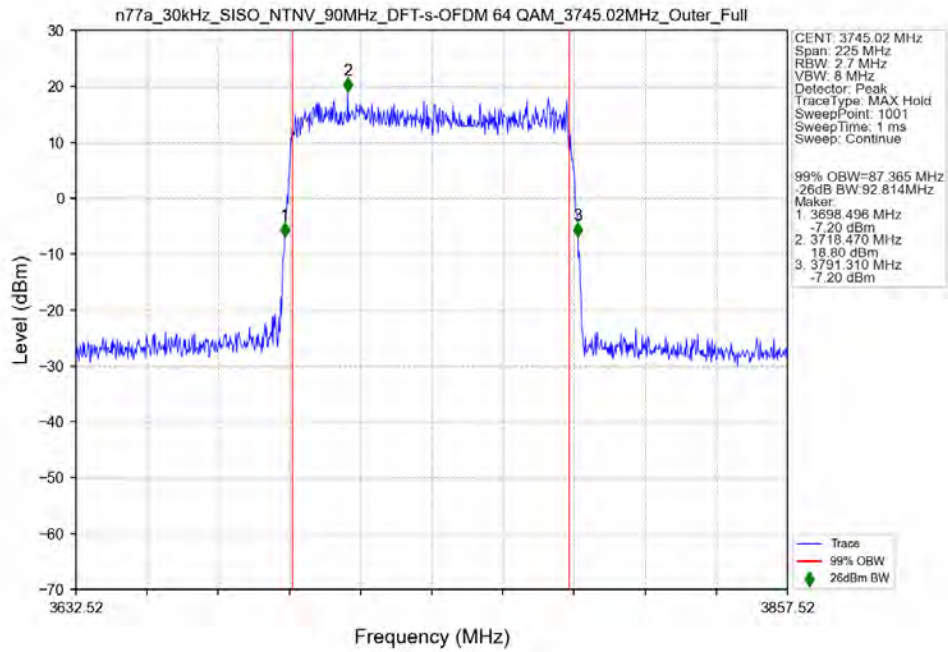
n77a\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_16\_QAM\_3840MHz\_Outer\_Full\_Ant13



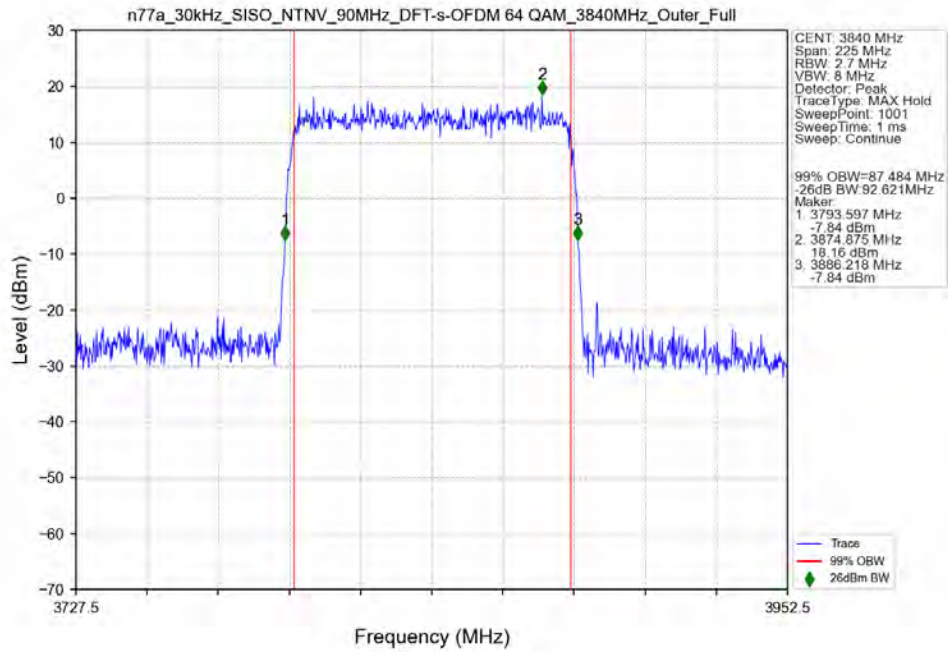
n77a\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_16\_QAM\_3934.98MHz\_Outer\_Full\_Ant13



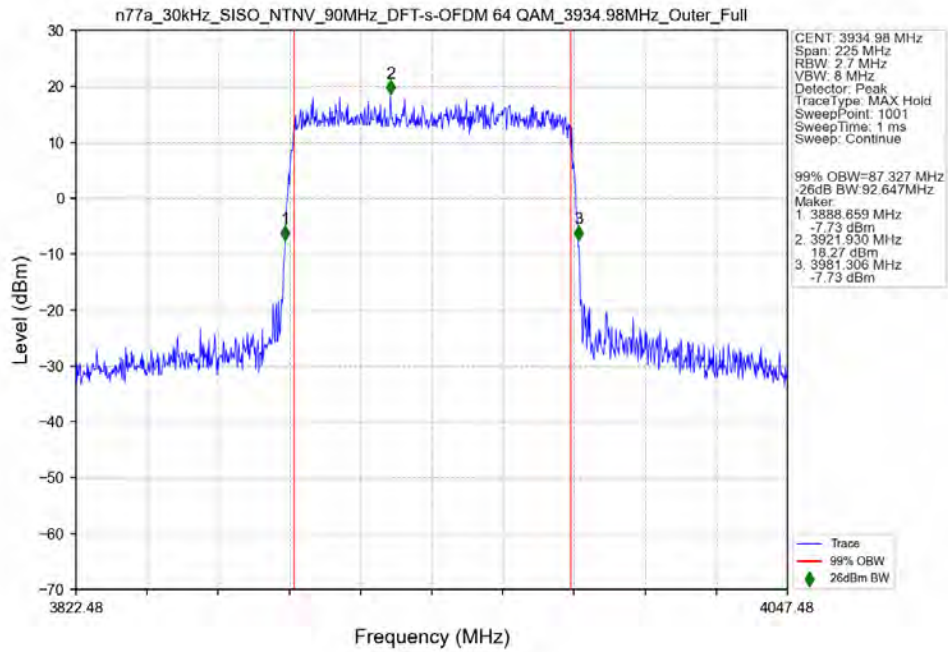
n77a\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_64\_QAM\_3745.02MHz\_Outer\_Full\_Ant13



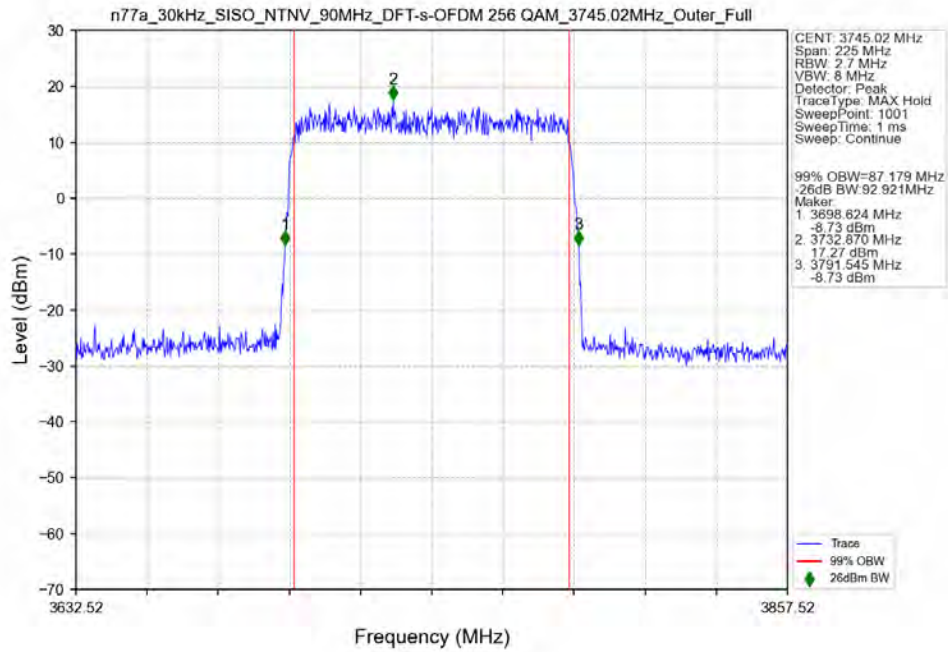
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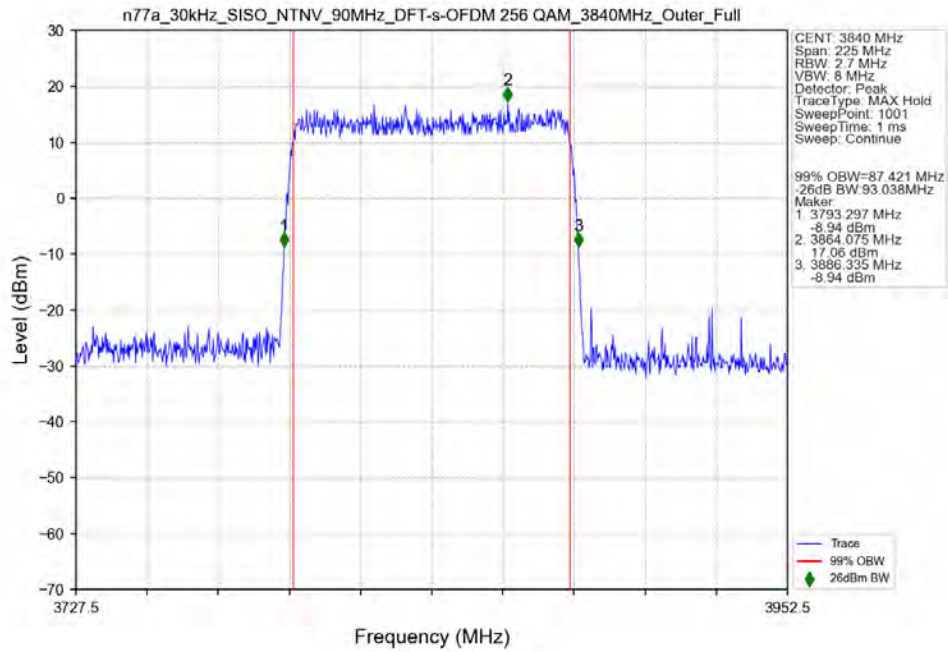
n77a\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_64\_QAM\_3934.98MHz\_Outer\_Full\_Ant13



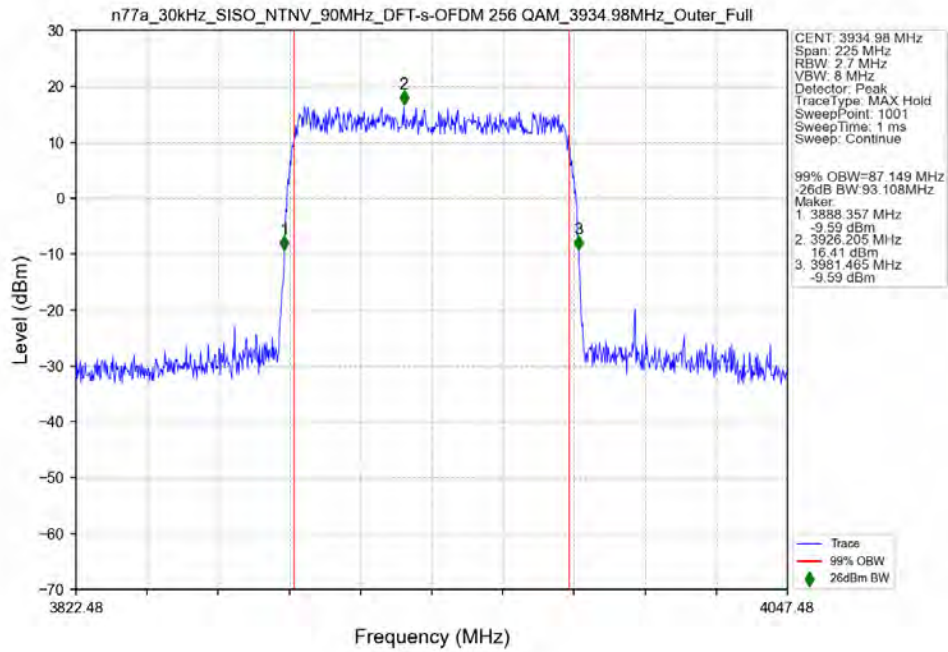
n77a\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_256\_QAM\_3745.02MHz\_Outer\_Full\_Ant13



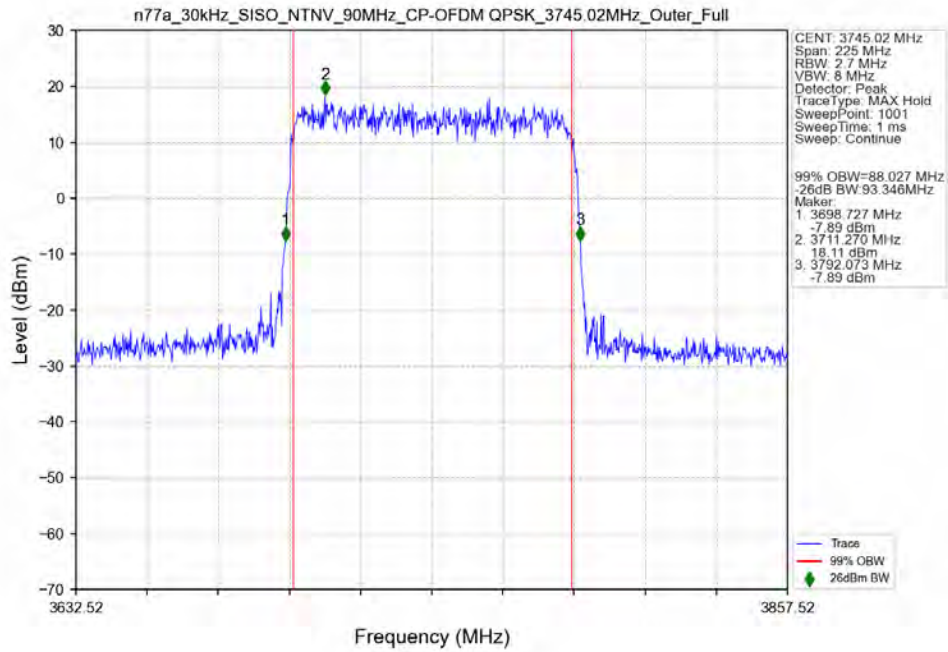
n77a\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_256\_QAM\_3840MHz\_Outer\_Full\_Ant13



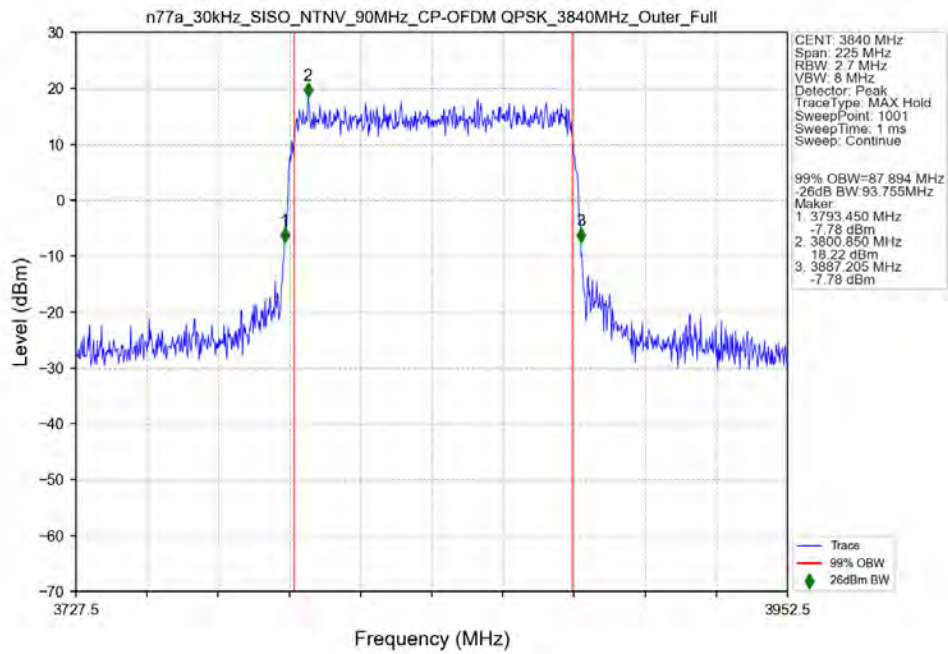
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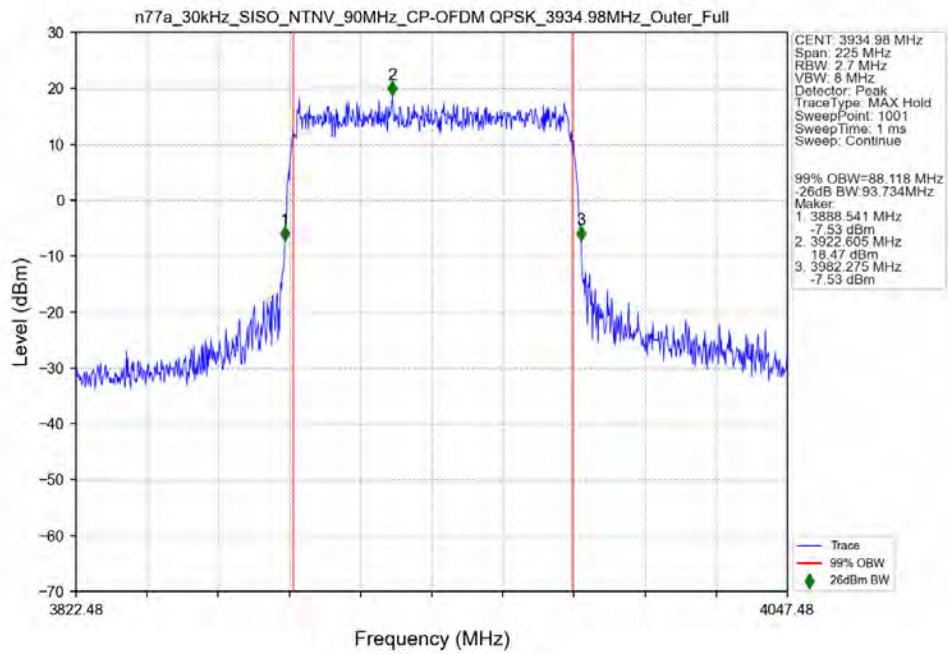
n77a\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_QPSK\_3745.02MHz\_Outer\_Full\_Ant13



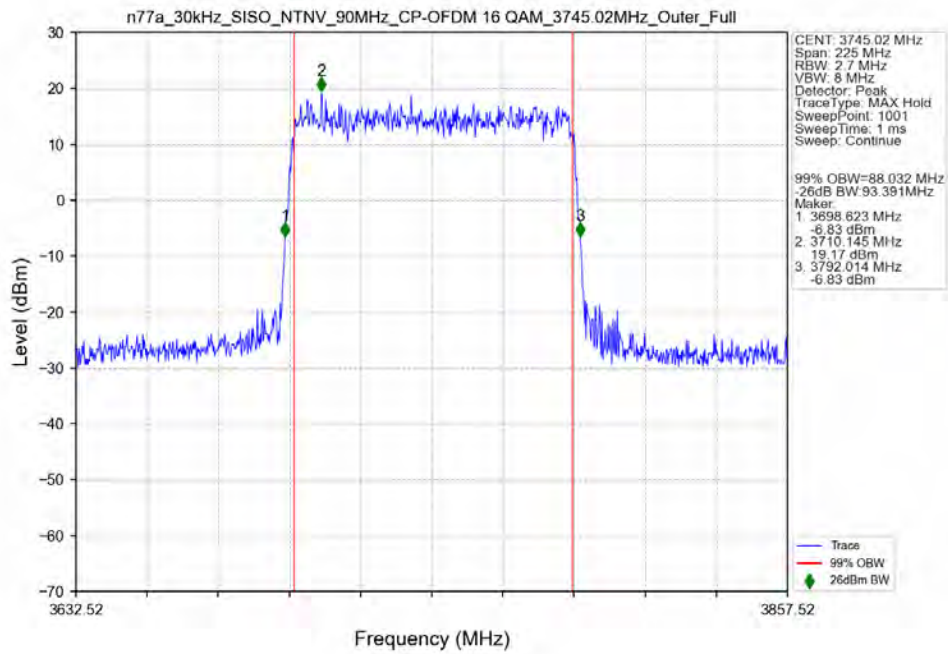
n77a\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_QPSK\_3840MHz\_Outer\_Full\_Ant13



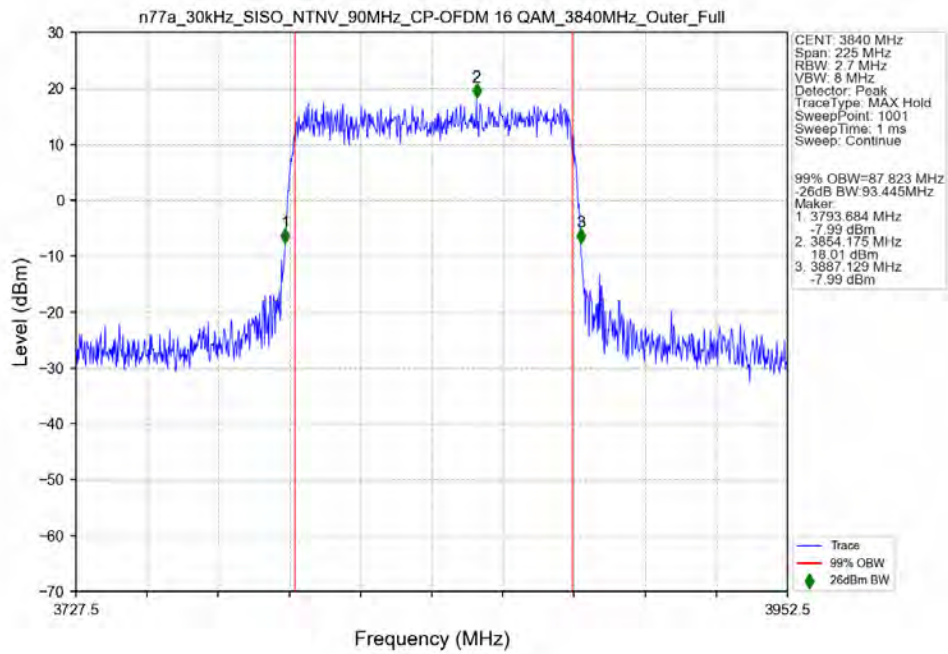
n77a\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_QPSK\_3934.98MHz\_Outer\_Full\_Ant13



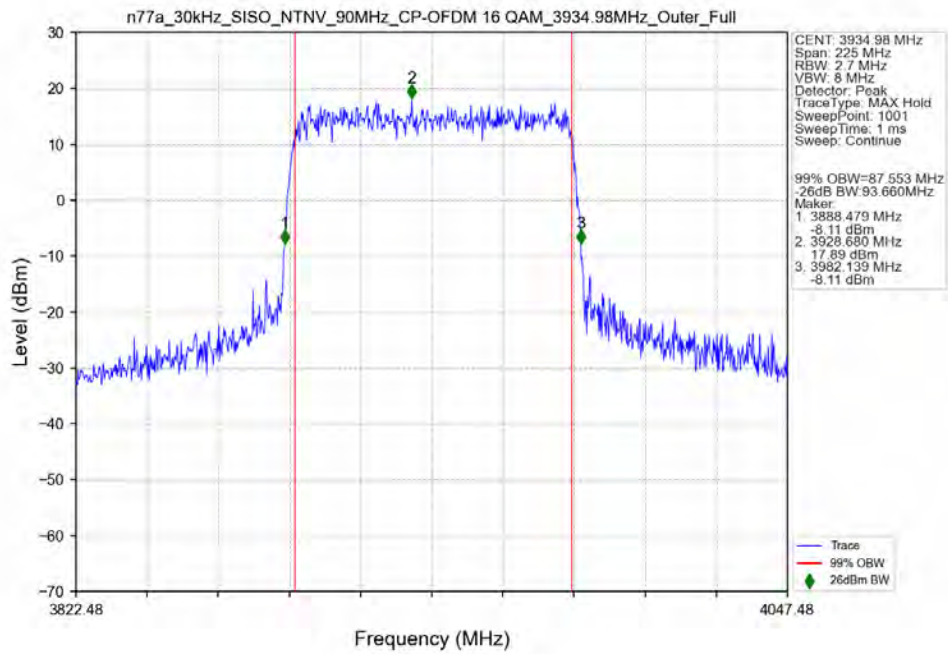
n77a\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_16\_QAM\_3745.02MHz\_Outer\_Full\_Ant13



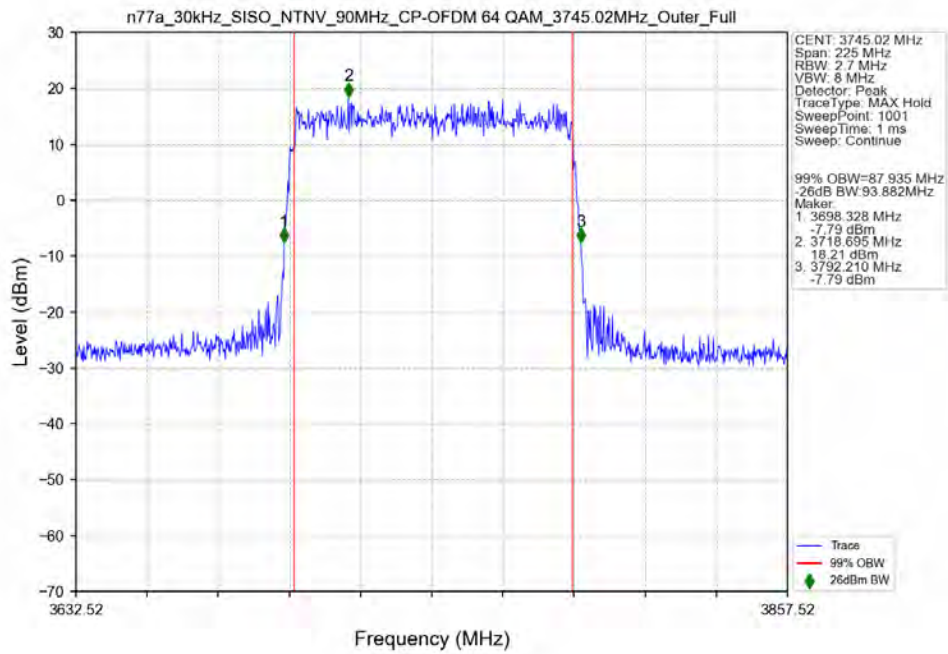
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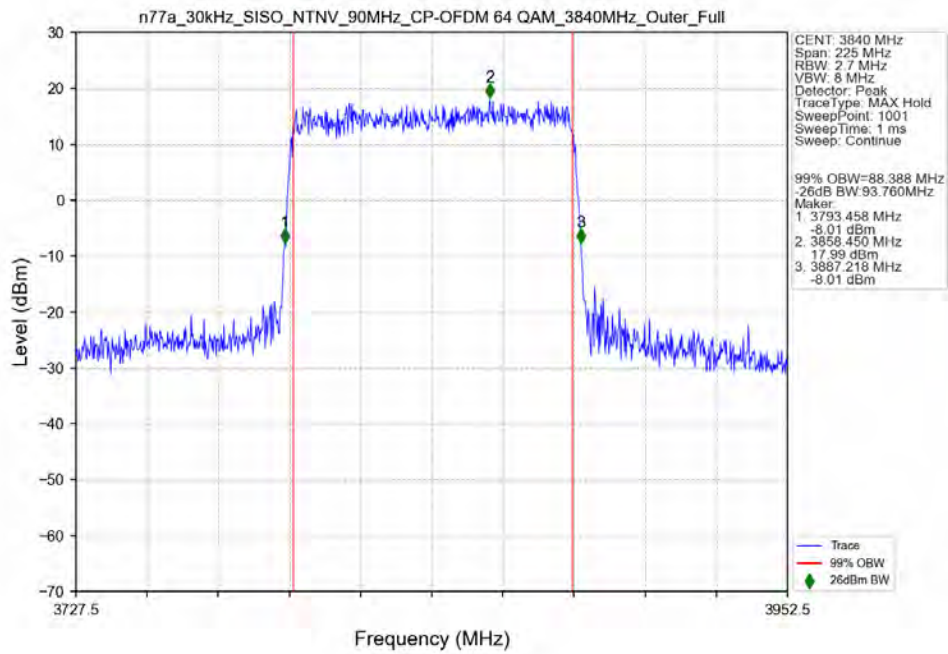
n77a\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM 16 QAM 3934.98MHz\_Outer\_Full\_Ant13



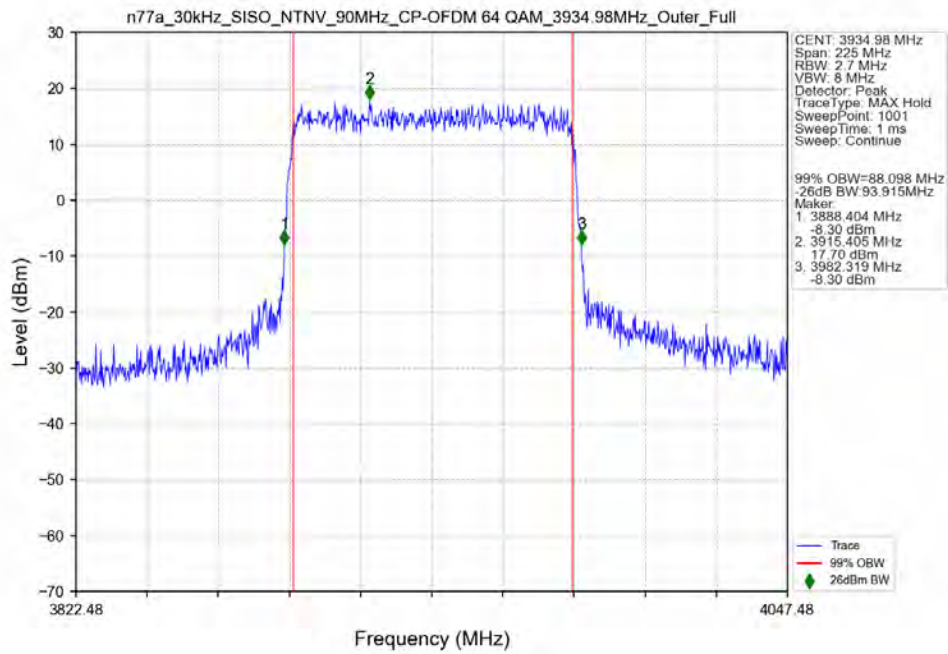
n77a\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM 64 QAM 3745.02MHz\_Outer\_Full\_Ant13



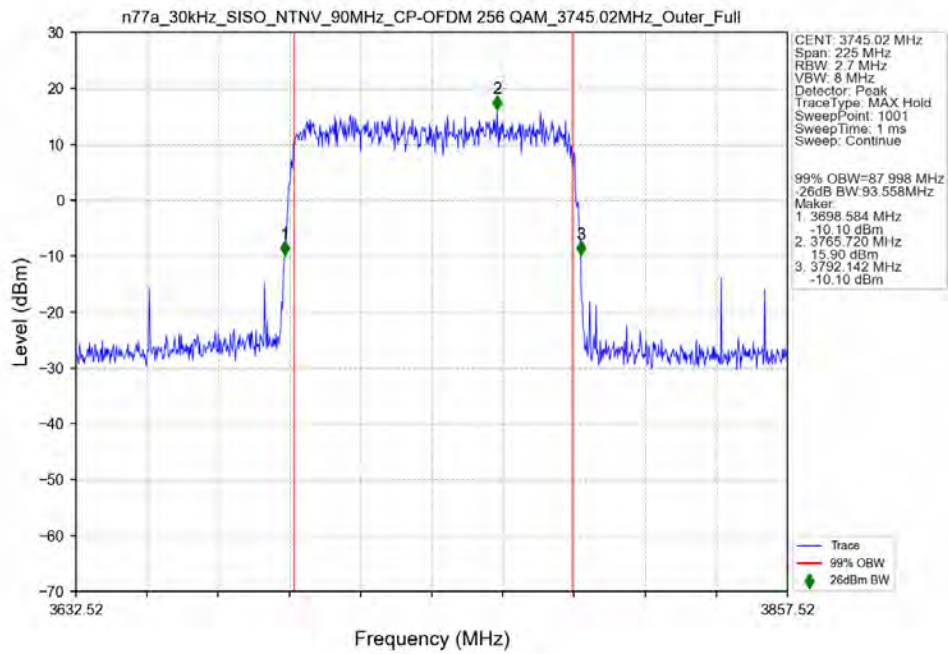
n77a\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_64\_QAM\_3840MHz\_Outer\_Full\_Ant13



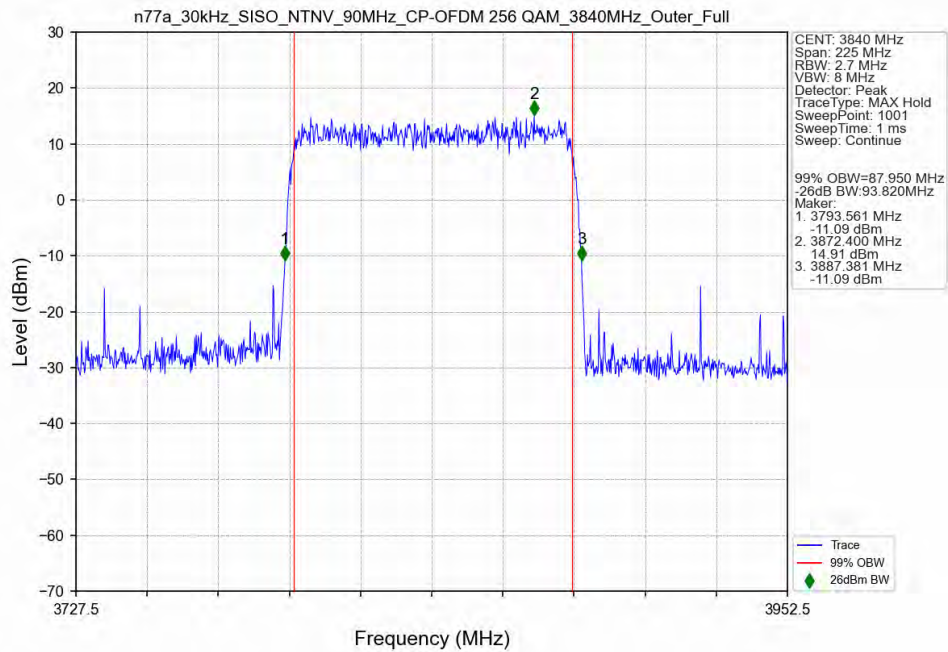
n77a\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_64\_QAM\_3934.98MHz\_Outer\_Full\_Ant13



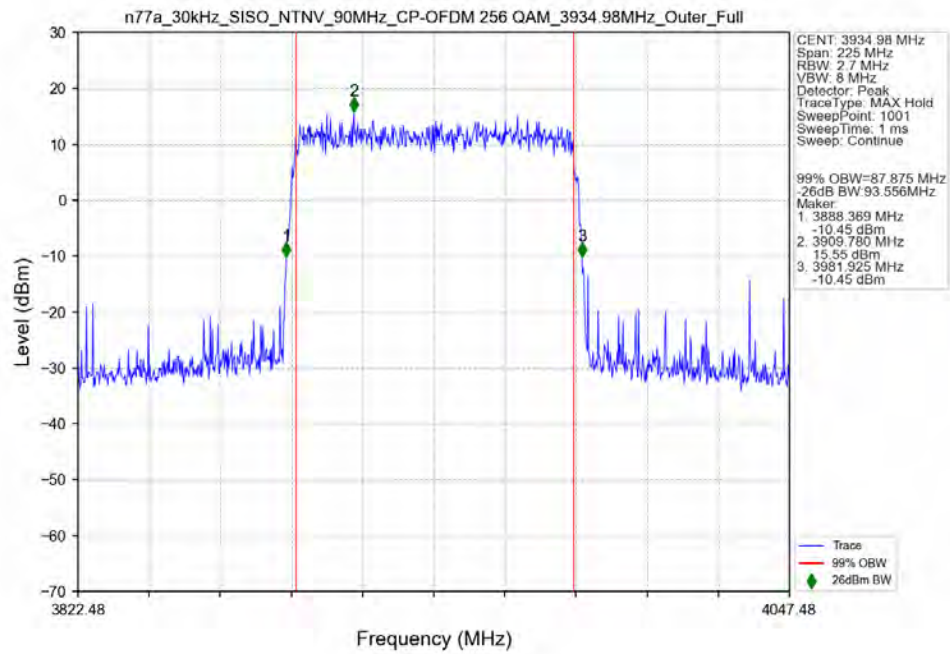
n77a\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_256\_QAM\_3745.02MHz\_Outer\_Full\_Ant13



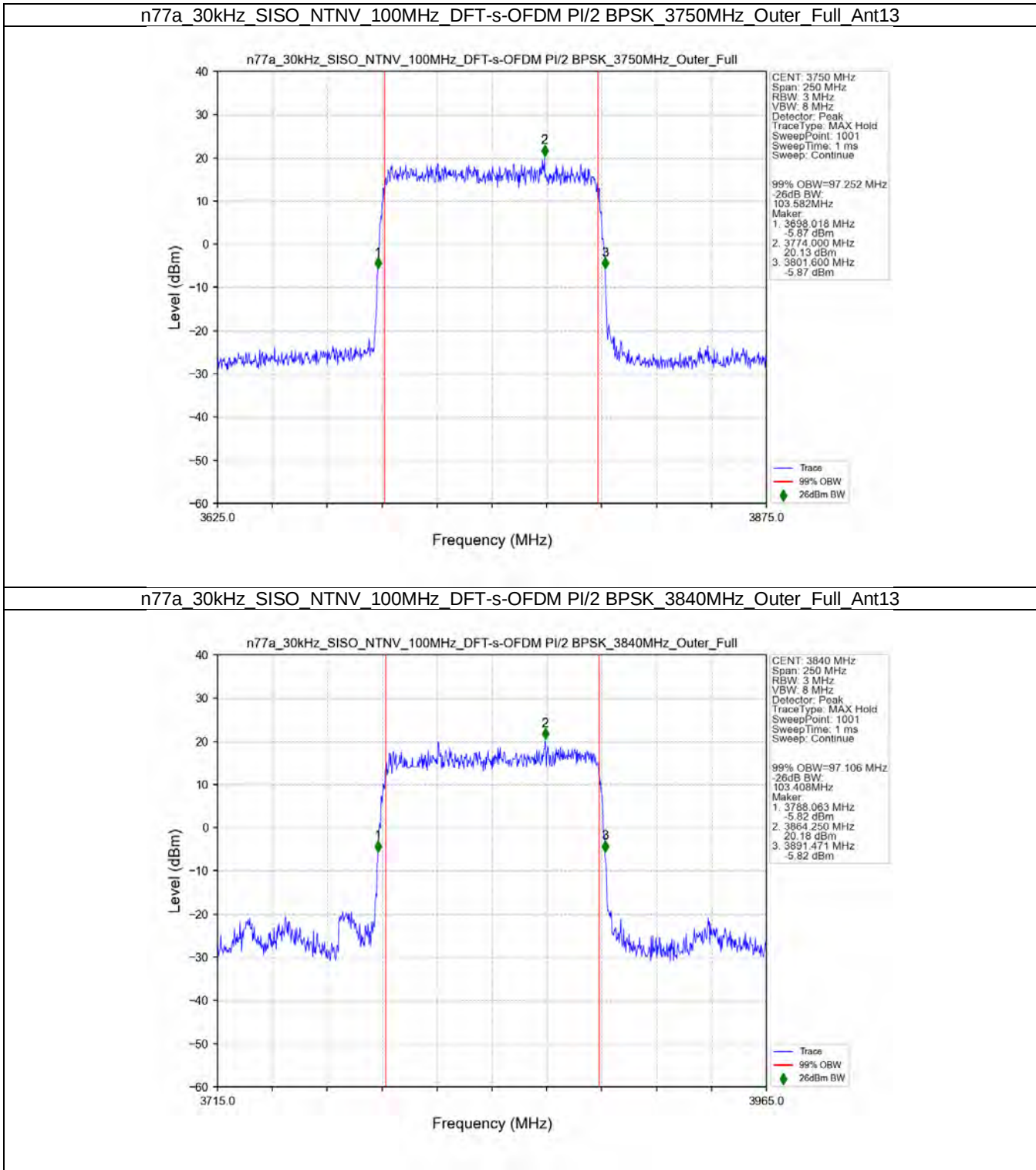
n77a\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_256\_QAM\_3840MHz\_Outer\_Full\_Ant13



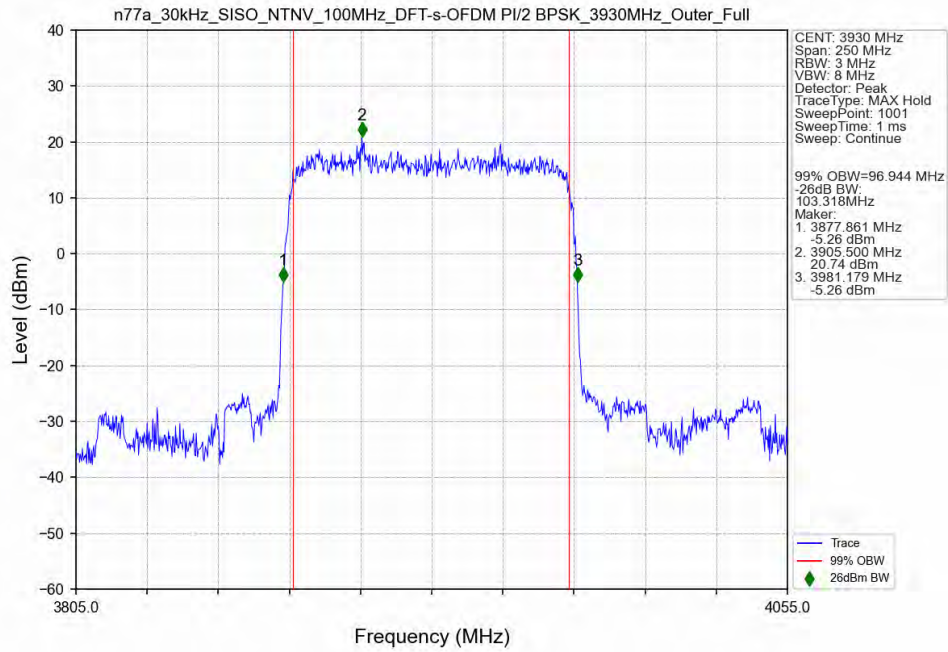
n77a\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_256\_QAM\_3934.98MHz\_Outer\_Full\_Ant13



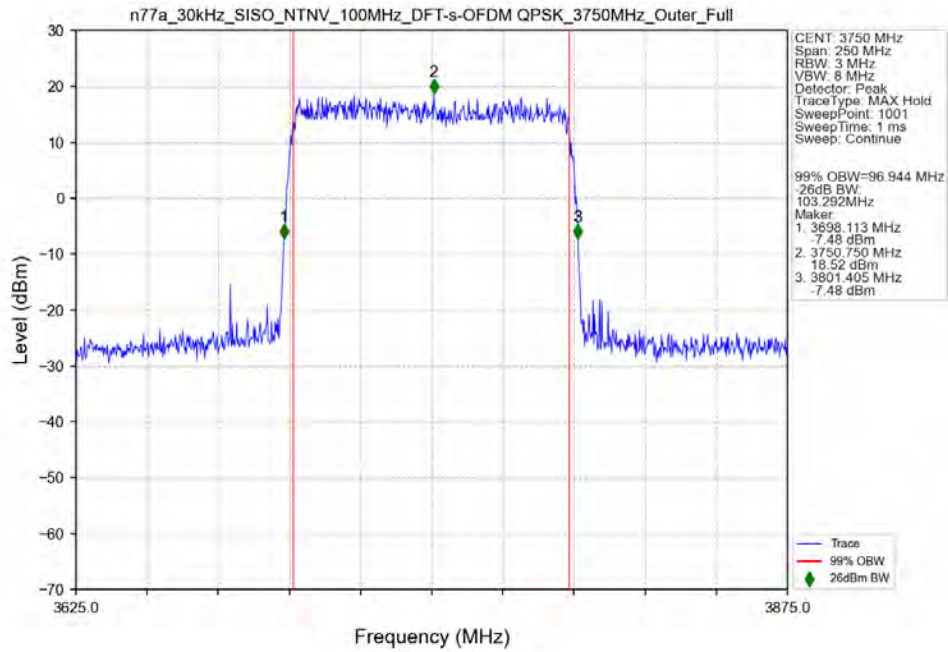
3.2.11 30k\_SISO\_100MHz\_NTNV



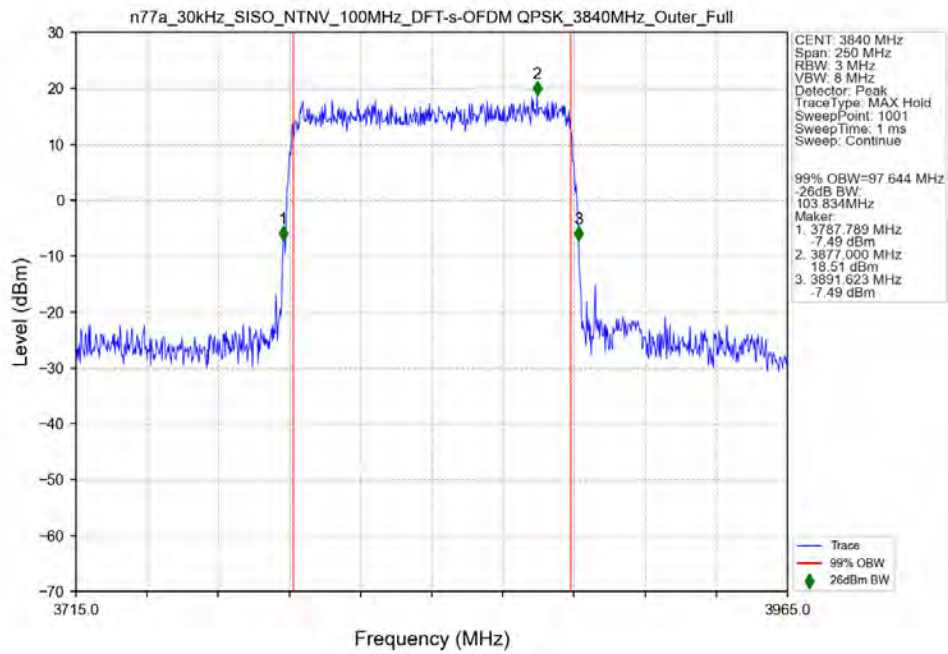
n77a\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM PI/2 BPSK\_3930MHz\_Outer\_Full\_Ant13



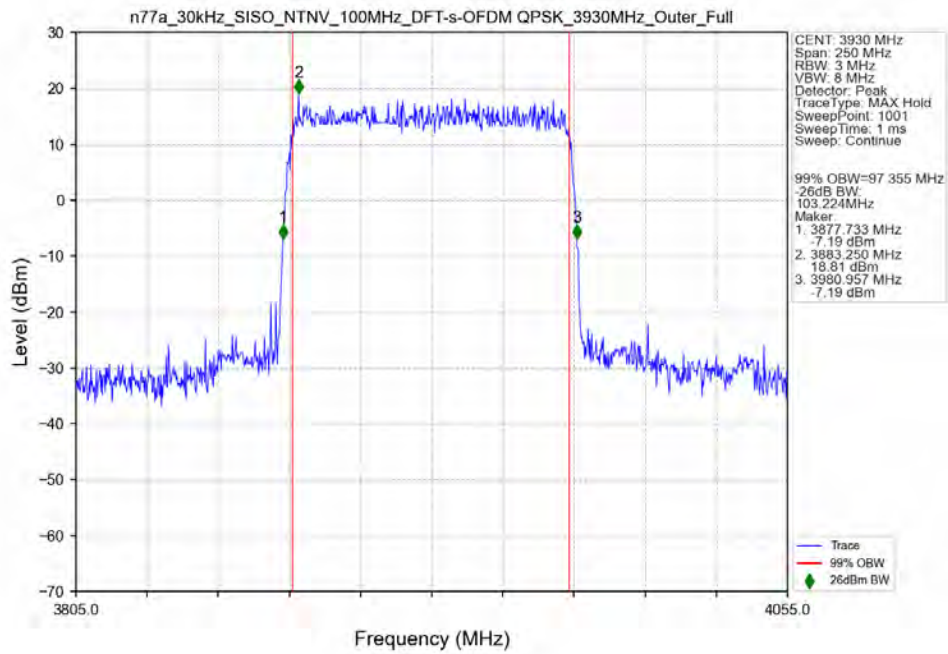
n77a\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM QPSK\_3750MHz\_Outer\_Full\_Ant13



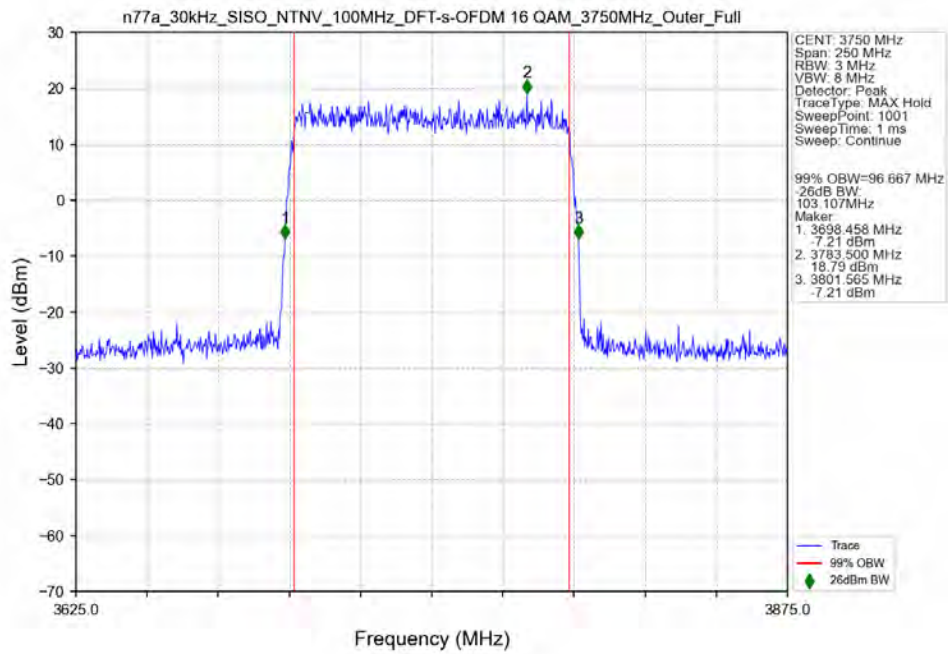
n77a 30kHz SISO NTN 100MHz DFT-s-OFDM QPSK 3840MHz Outer Full Ant13



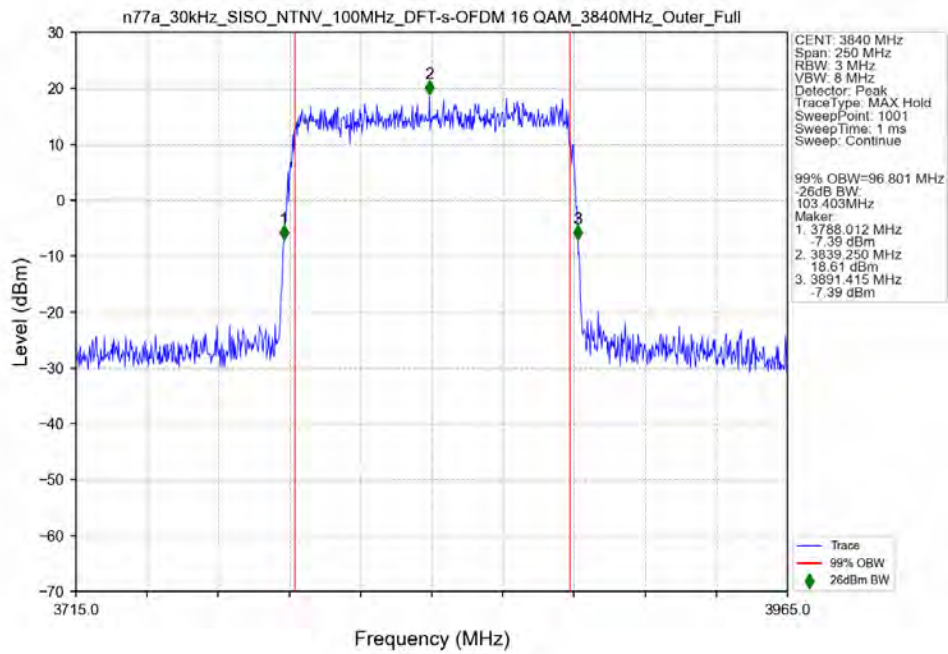
n77a 30kHz SISO NTN 100MHz DFT-s-OFDM QPSK 3930MHz Outer Full Ant13



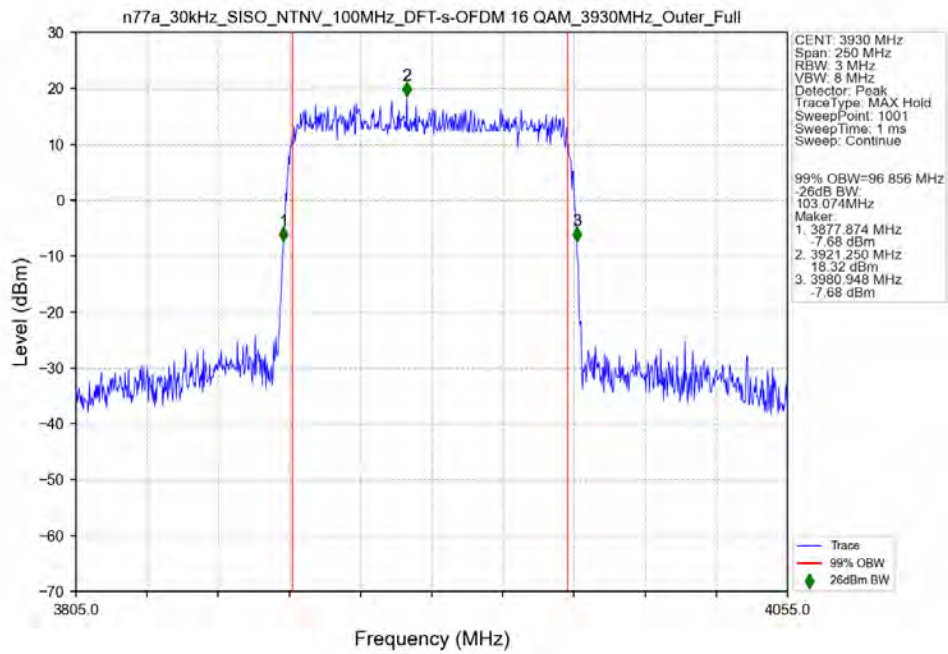
n77a\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_16\_QAM\_3750MHz\_Outer\_Full\_Ant13



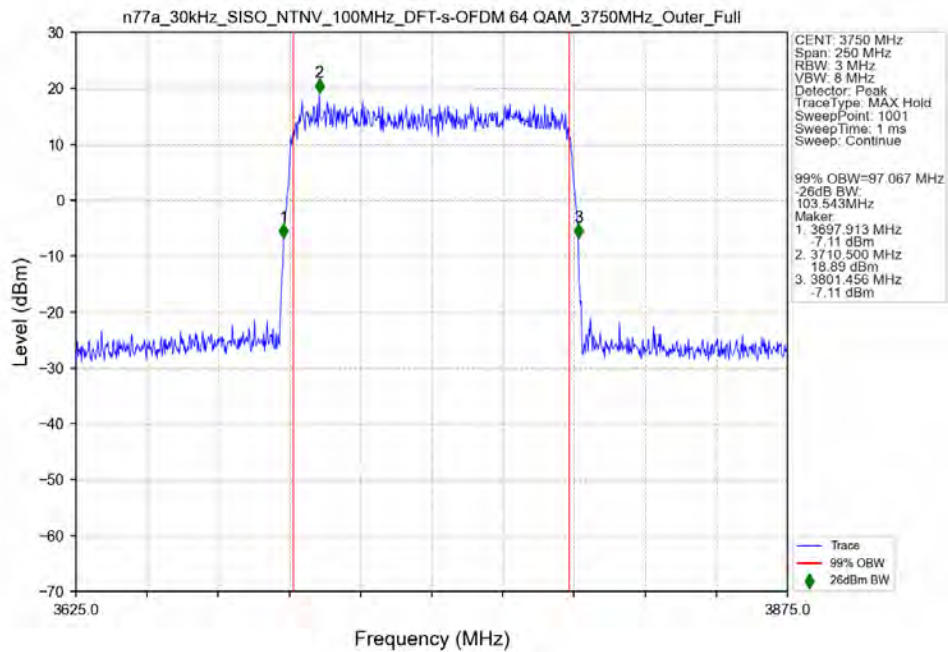
n77a\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_16\_QAM\_3840MHz\_Outer\_Full\_Ant13



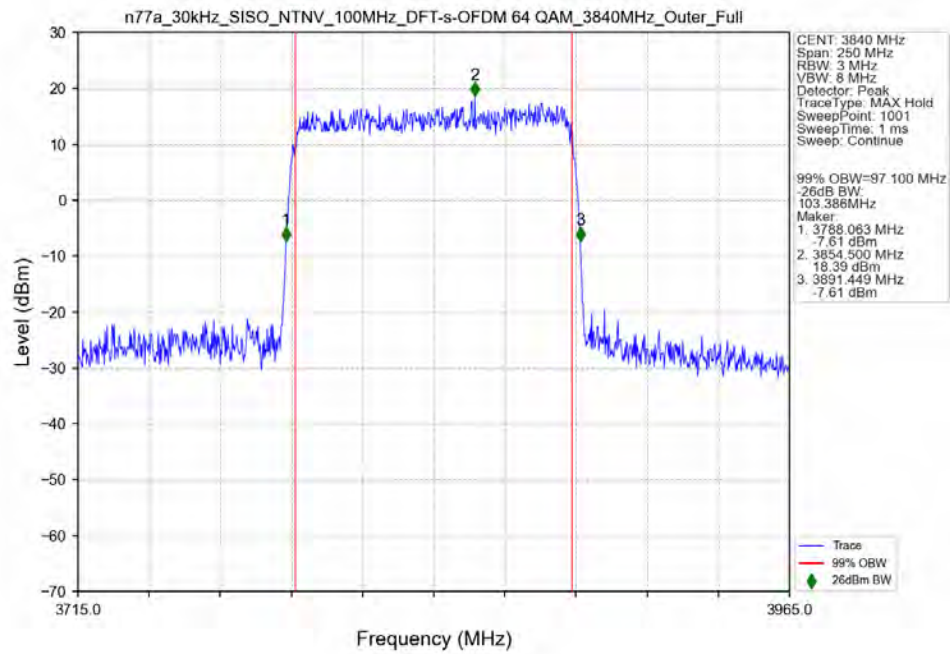
n77a\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_16\_QAM\_3930MHz\_Outer\_Full\_Ant13



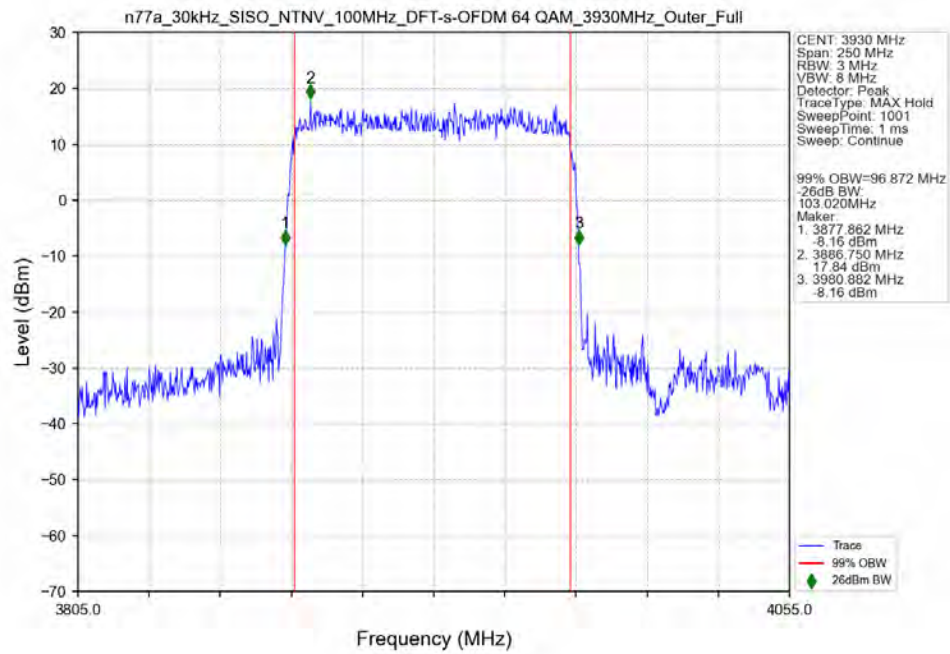
n77a\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_64\_QAM\_3750MHz\_Outer\_Full\_Ant13



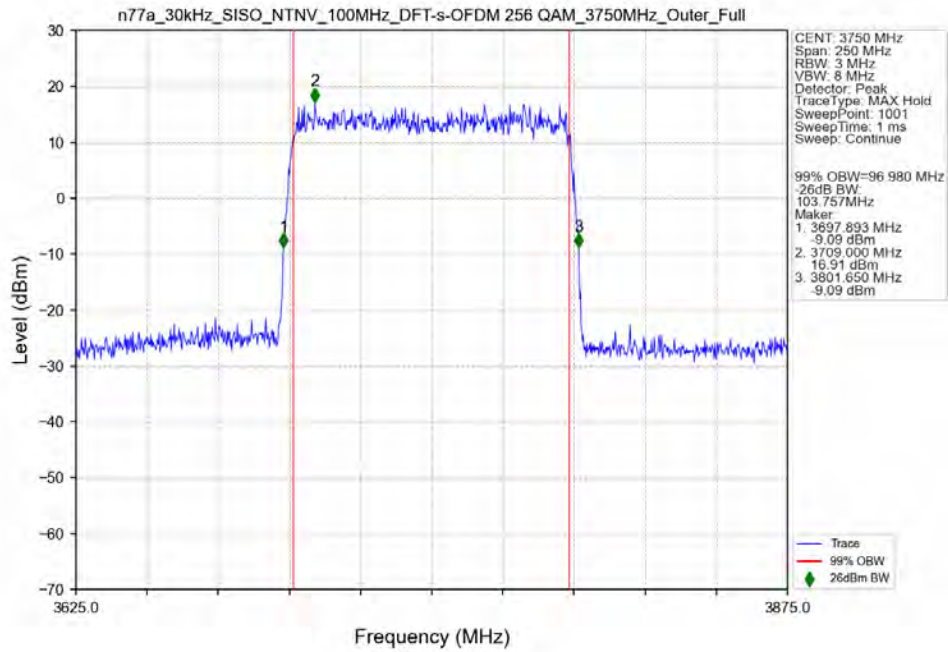
n77a\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_64\_QAM\_3840MHz\_Outer\_Full\_Ant13



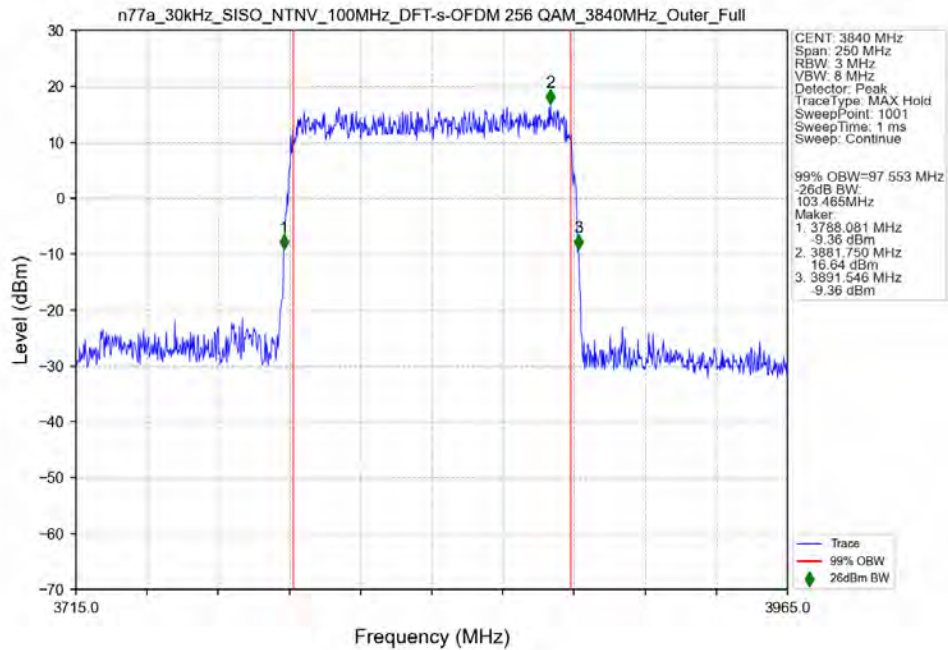
n77a\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_64\_QAM\_3930MHz\_Outer\_Full\_Ant13



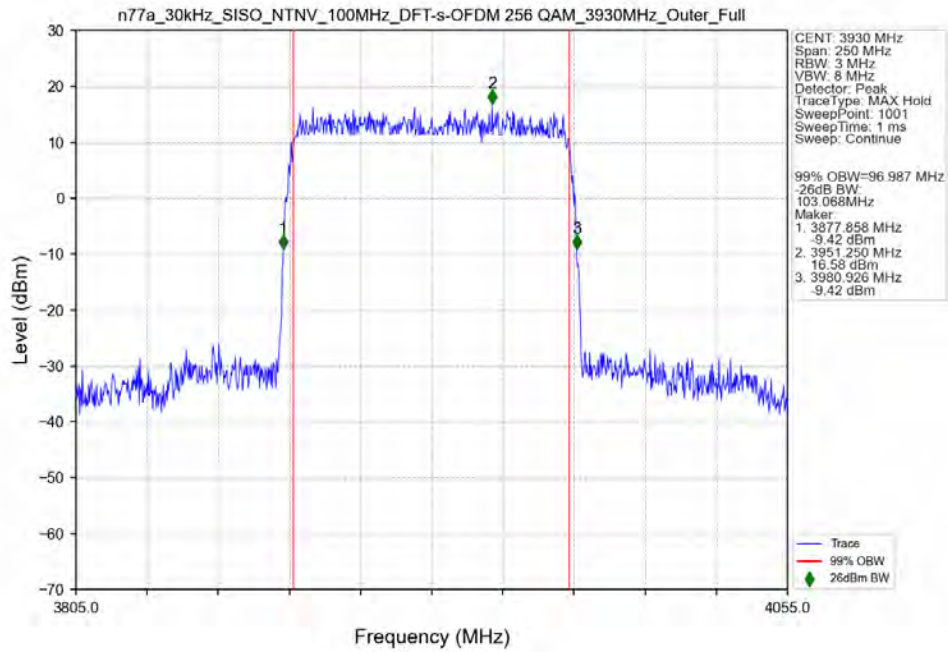
n77a\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_256\_QAM\_3750MHz\_Outer\_Full\_Ant13



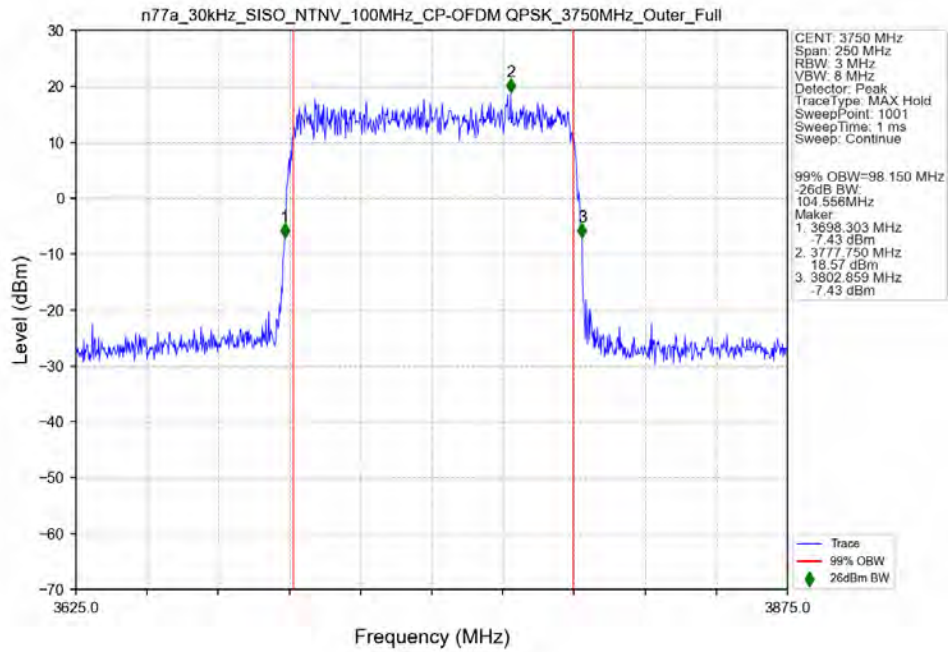
n77a\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_256\_QAM\_3840MHz\_Outer\_Full\_Ant13



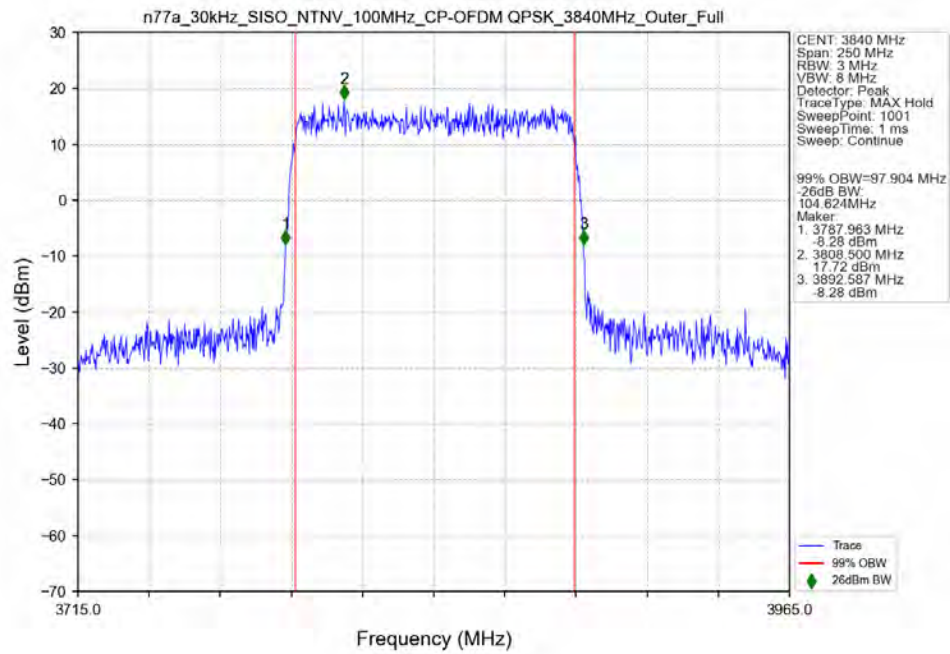
n77a\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_256\_QAM\_3930MHz\_Outer\_Full\_Ant13



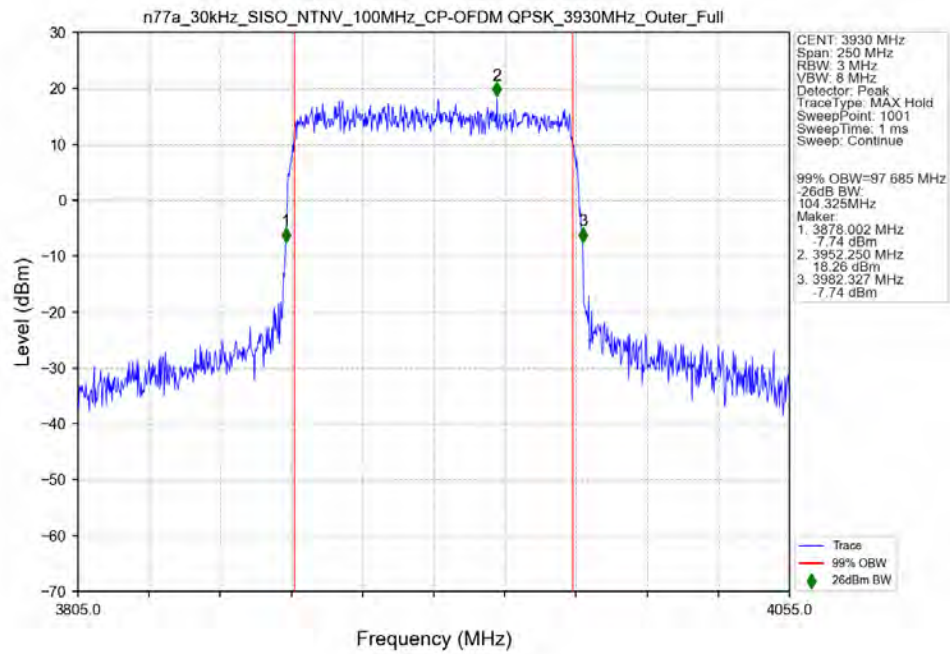
n77a\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM\_QPSK\_3750MHz\_Outer\_Full\_Ant13



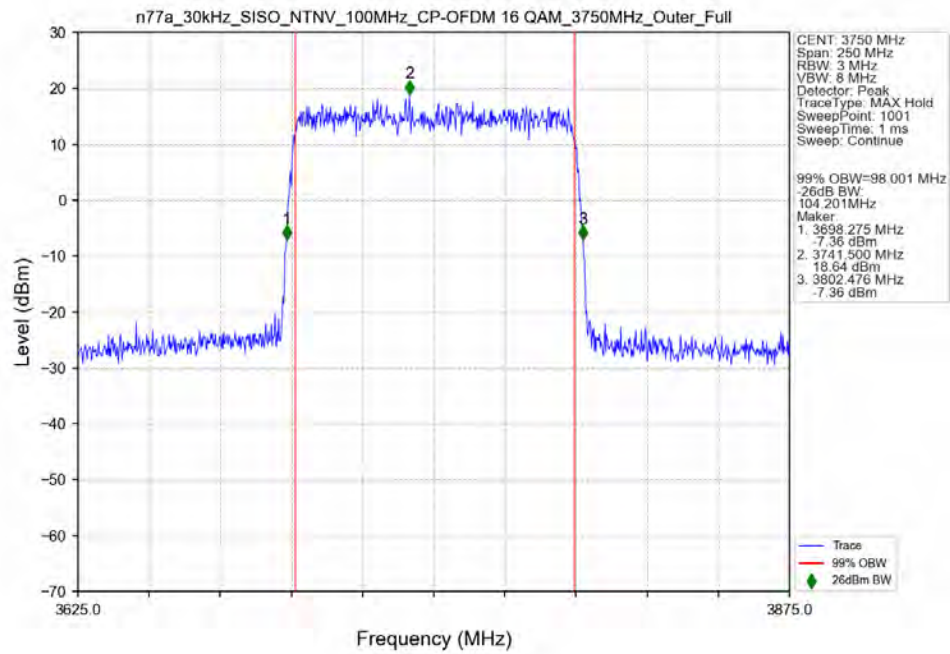
n77a\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM\_QPSK\_3840MHz\_Outer\_Full\_Ant13



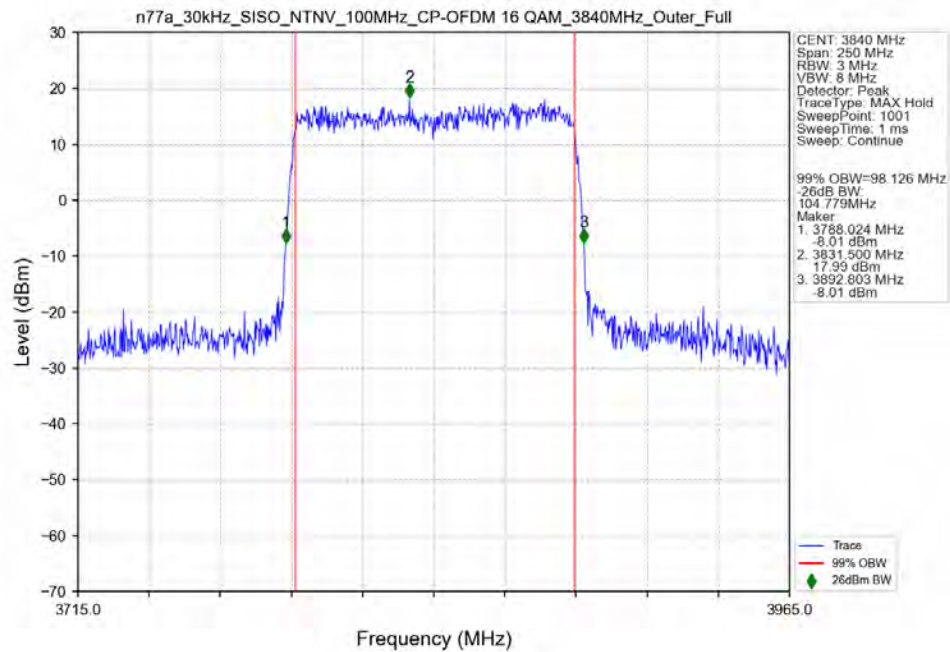
n77a\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM\_QPSK\_3930MHz\_Outer\_Full\_Ant13



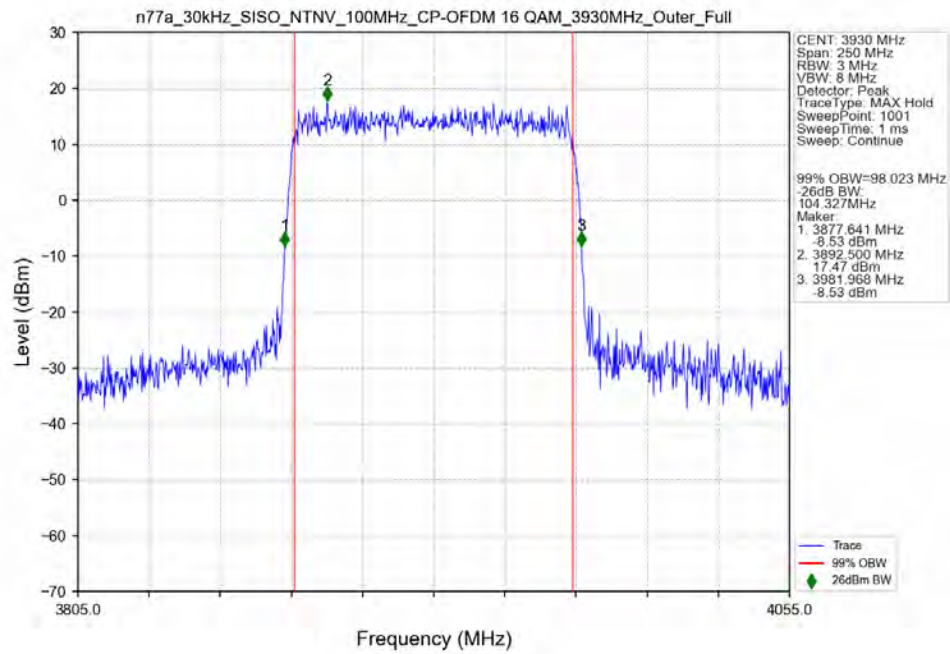
n77a\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM\_16\_QAM\_3750MHz\_Outer\_Full\_Ant13



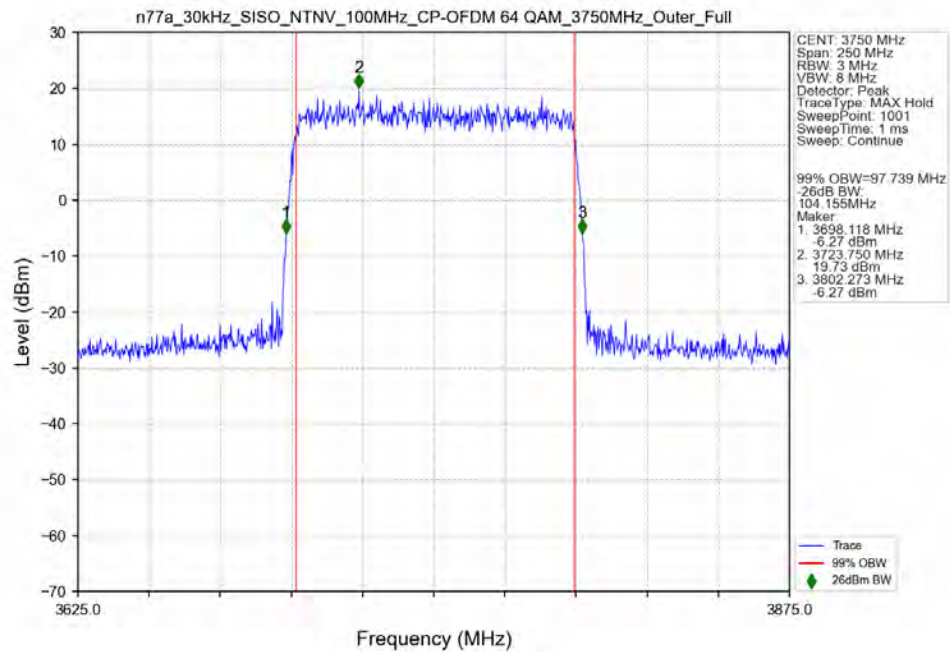
n77a\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM\_16\_QAM\_3840MHz\_Outer\_Full\_Ant13



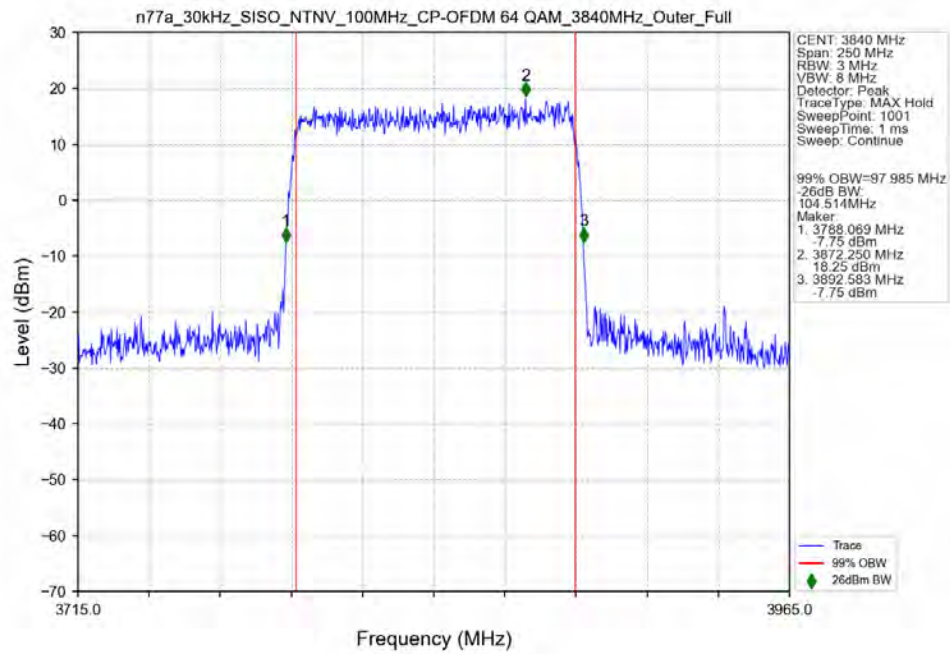
n77a\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM 16 QAM 3930MHz\_Outer\_Full\_Ant13



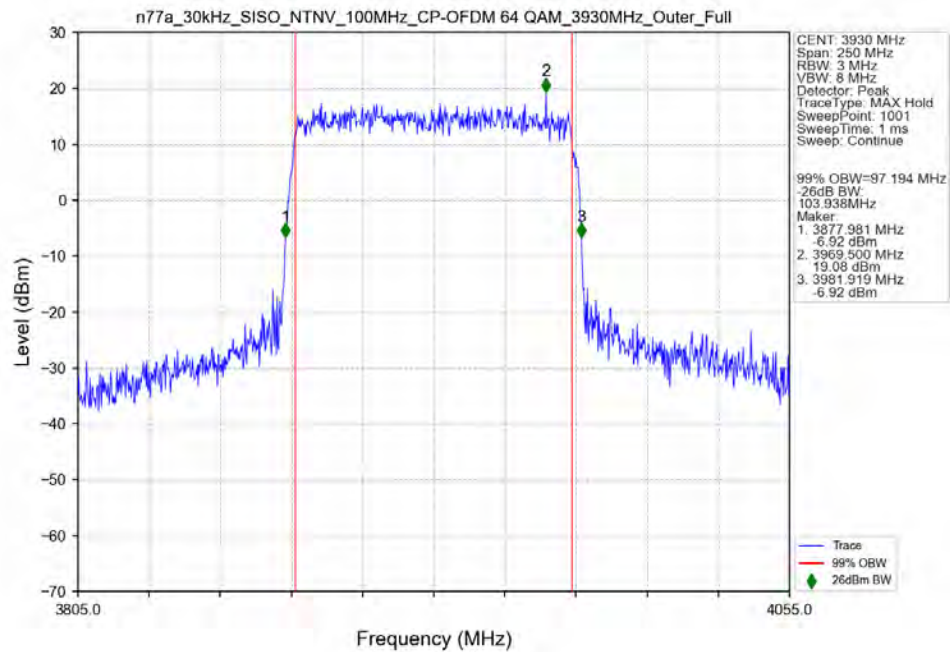
n77a\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM 64 QAM 3750MHz\_Outer\_Full\_Ant13



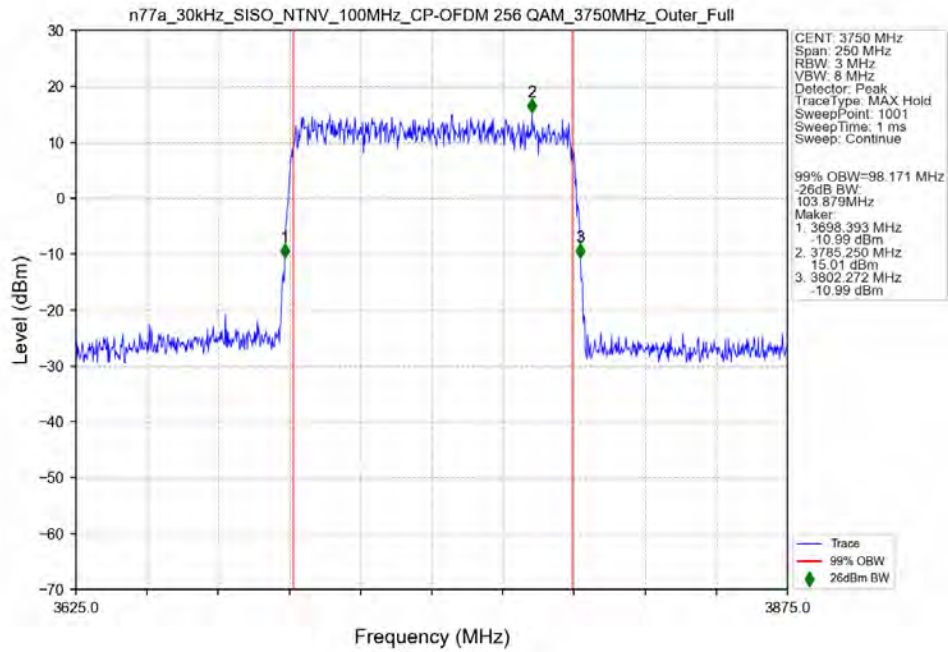
n77a\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM\_64\_QAM\_3840MHz\_Outer\_Full\_Ant13



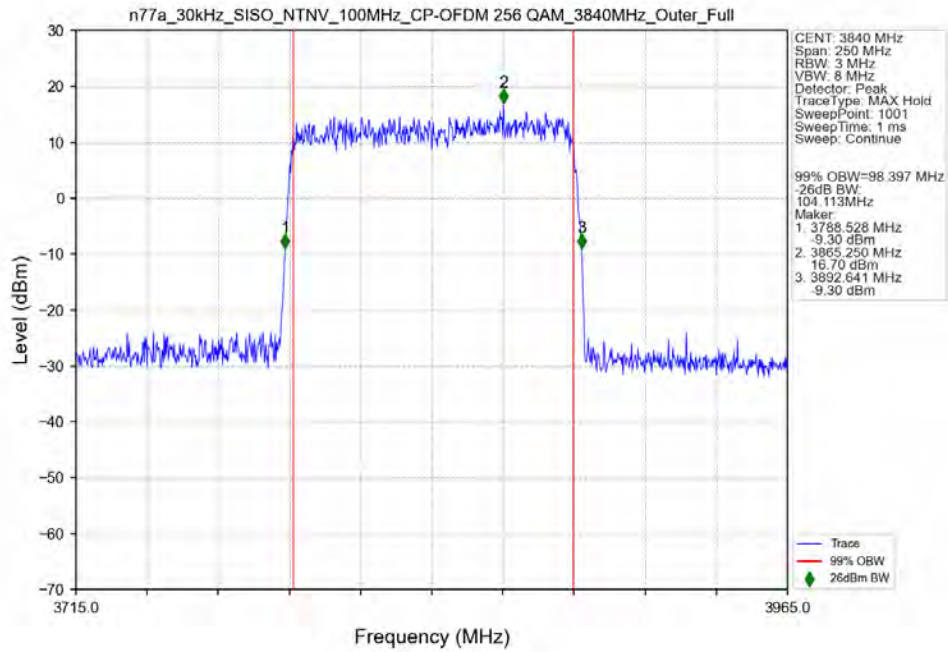
n77a\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM\_64\_QAM\_3930MHz\_Outer\_Full\_Ant13



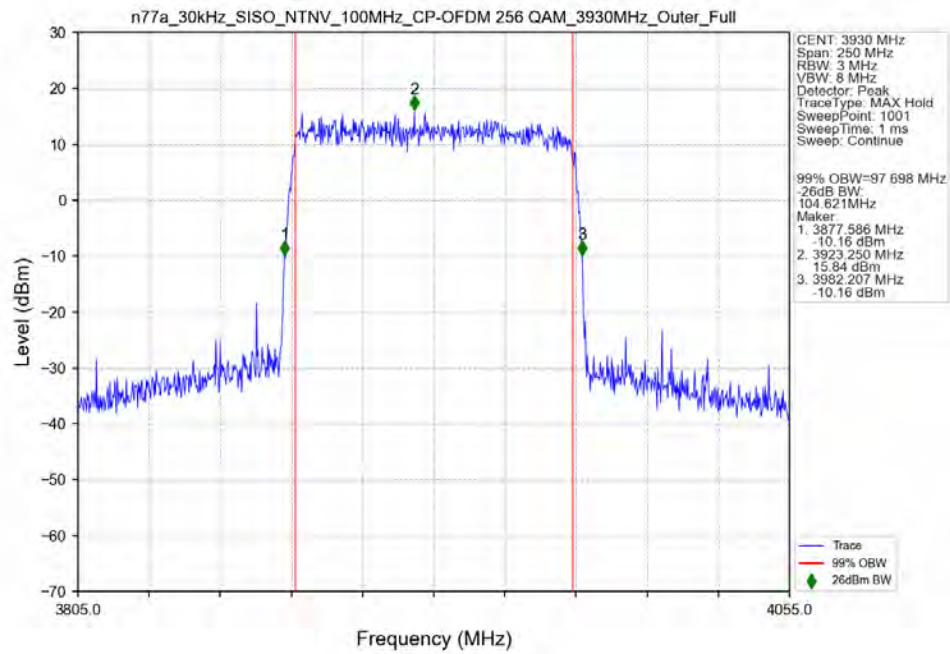
n77a 30kHz SISO NTN 100MHz CP-OFDM 256 QAM 3750MHz Outer Full Ant13



n77a 30kHz SISO NTN 100MHz CP-OFDM 256 QAM 3840MHz Outer Full Ant13



n77a 30kHz SISO NTV 100MHz CP-OFDM 256 QAM 3930MHz Outer Full Ant13



## 4. Peak-Average Ratio

### 4.1 Test Result

#### 4.1.1 30k\_SISO\_10MHz\_NTNV

| 5G NR n77a SCS=30kHz SISO 10MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant13                   | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3705            | Outer_Full    | 4.35                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 4.41                    | /    | /   | <=13  | Pass    |
|                                     | 3975            | Outer_Full    | 4.30                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3705            | Outer_Full    | 4.92                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 5.13                    | /    | /   | <=13  | Pass    |
|                                     | 3975            | Outer_Full    | 5.05                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                   | 3705            | Outer_Full    | 5.77                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 5.96                    | /    | /   | <=13  | Pass    |
|                                     | 3975            | Outer_Full    | 5.85                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                   | 3705            | Outer_Full    | 6.34                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.04                    | /    | /   | <=13  | Pass    |
|                                     | 3975            | Outer_Full    | 5.89                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                  | 3705            | Outer_Full    | 6.66                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.62                    | /    | /   | <=13  | Pass    |
|                                     | 3975            | Outer_Full    | 6.39                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                        | 3705            | Outer_Full    | 6.87                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.97                    | /    | /   | <=13  | Pass    |
|                                     | 3975            | Outer_Full    | 6.76                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                      | 3705            | Outer_Full    | 6.72                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.94                    | /    | /   | <=13  | Pass    |
|                                     | 3975            | Outer_Full    | 6.68                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                      | 3705            | Outer_Full    | 7.66                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 7.13                    | /    | /   | <=13  | Pass    |
|                                     | 3975            | Outer_Full    | 6.81                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                     | 3705            | Outer_Full    | 7.95                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 7.94                    | /    | /   | <=13  | Pass    |
|                                     | 3975            | Outer_Full    | 7.79                    | /    | /   | <=13  | Pass    |

#### 4.1.2 30k\_SISO\_15MHz\_NTNV

| 5G NR n77a SCS=30kHz SISO 15MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant13                   | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3707.52         | Outer_Full    | 4.47                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 4.33                    | /    | /   | <=13  | Pass    |
|                                     | 3972.48         | Outer_Full    | 4.27                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3707.52         | Outer_Full    | 4.98                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 4.97                    | /    | /   | <=13  | Pass    |
|                                     | 3972.48         | Outer_Full    | 4.96                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                   | 3707.52         | Outer_Full    | 5.83                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 5.84                    | /    | /   | <=13  | Pass    |
|                                     | 3972.48         | Outer_Full    | 5.77                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                   | 3707.52         | Outer_Full    | 6.42                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 5.95                    | /    | /   | <=13  | Pass    |
|                                     | 3972.48         | Outer_Full    | 5.85                    | /    | /   | <=13  | Pass    |

|                    |         |            |      |   |   |      |      |
|--------------------|---------|------------|------|---|---|------|------|
| DFT-s-OFDM 256 QAM | 3707.52 | Outer_Full | 6.54 | / | / | <=13 | Pass |
|                    | 3840    | Outer_Full | 6.46 | / | / | <=13 | Pass |
|                    | 3972.48 | Outer_Full | 6.34 | / | / | <=13 | Pass |
| CP-OFDM QPSK       | 3707.52 | Outer_Full | 6.99 | / | / | <=13 | Pass |
|                    | 3840    | Outer_Full | 6.92 | / | / | <=13 | Pass |
|                    | 3972.48 | Outer_Full | 6.76 | / | / | <=13 | Pass |
| CP-OFDM 16 QAM     | 3707.52 | Outer_Full | 6.84 | / | / | <=13 | Pass |
|                    | 3840    | Outer_Full | 6.93 | / | / | <=13 | Pass |
|                    | 3972.48 | Outer_Full | 6.72 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM     | 3707.52 | Outer_Full | 7.63 | / | / | <=13 | Pass |
|                    | 3840    | Outer_Full | 6.98 | / | / | <=13 | Pass |
|                    | 3972.48 | Outer_Full | 6.85 | / | / | <=13 | Pass |
| CP-OFDM 256 QAM    | 3707.52 | Outer_Full | 8.43 | / | / | <=13 | Pass |
|                    | 3840    | Outer_Full | 8.34 | / | / | <=13 | Pass |
|                    | 3972.48 | Outer_Full | 8.14 | / | / | <=13 | Pass |

#### 4.1.3 30k\_SISO\_20MHz\_NTNV

| 5G NR n77a SCS=30kHz SISO 20MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant13                   | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3710.01         | Outer_Full    | 4.55                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 4.30                    | /    | /   | <=13  | Pass    |
|                                     | 3969.99         | Outer_Full    | 4.34                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3710.01         | Outer_Full    | 5.21                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 5.06                    | /    | /   | <=13  | Pass    |
|                                     | 3969.99         | Outer_Full    | 5.13                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                   | 3710.01         | Outer_Full    | 5.96                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 5.94                    | /    | /   | <=13  | Pass    |
|                                     | 3969.99         | Outer_Full    | 5.87                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                   | 3710.01         | Outer_Full    | 6.41                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.38                    | /    | /   | <=13  | Pass    |
|                                     | 3969.99         | Outer_Full    | 5.86                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                  | 3710.01         | Outer_Full    | 6.77                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.61                    | /    | /   | <=13  | Pass    |
|                                     | 3969.99         | Outer_Full    | 6.52                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                        | 3710.01         | Outer_Full    | 6.76                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.78                    | /    | /   | <=13  | Pass    |
|                                     | 3969.99         | Outer_Full    | 6.65                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                      | 3710.01         | Outer_Full    | 6.77                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.81                    | /    | /   | <=13  | Pass    |
|                                     | 3969.99         | Outer_Full    | 6.65                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                      | 3710.01         | Outer_Full    | 7.52                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 7.50                    | /    | /   | <=13  | Pass    |
|                                     | 3969.99         | Outer_Full    | 7.45                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                     | 3710.01         | Outer_Full    | 8.34                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 8.23                    | /    | /   | <=13  | Pass    |
|                                     | 3969.99         | Outer_Full    | 8.04                    | /    | /   | <=13  | Pass    |

#### 4.1.4 30k\_SISO\_30MHz\_NTNV

| 5G NR n77a SCS=30kHz SISO 30MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant13                   | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3715.02         | Outer_Full    | 4.20                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 4.02                    | /    | /   | <=13  | Pass    |

|                    |         |            |      |   |   |      |      |
|--------------------|---------|------------|------|---|---|------|------|
|                    | 3964.98 | Outer_Full | 4.11 | / | / | <=13 | Pass |
| DFT-s-OFDM QPSK    | 3715.02 | Outer_Full | 4.81 | / | / | <=13 | Pass |
|                    | 3840    | Outer_Full | 4.70 | / | / | <=13 | Pass |
|                    | 3964.98 | Outer_Full | 4.88 | / | / | <=13 | Pass |
| DFT-s-OFDM 16 QAM  | 3715.02 | Outer_Full | 5.97 | / | / | <=13 | Pass |
|                    | 3840    | Outer_Full | 5.69 | / | / | <=13 | Pass |
|                    | 3964.98 | Outer_Full | 5.73 | / | / | <=13 | Pass |
| DFT-s-OFDM 64 QAM  | 3715.02 | Outer_Full | 6.17 | / | / | <=13 | Pass |
|                    | 3840    | Outer_Full | 6.30 | / | / | <=13 | Pass |
|                    | 3964.98 | Outer_Full | 6.19 | / | / | <=13 | Pass |
| DFT-s-OFDM 256 QAM | 3715.02 | Outer_Full | 6.61 | / | / | <=13 | Pass |
|                    | 3840    | Outer_Full | 6.48 | / | / | <=13 | Pass |
|                    | 3964.98 | Outer_Full | 6.38 | / | / | <=13 | Pass |
| CP-OFDM QPSK       | 3715.02 | Outer_Full | 7.22 | / | / | <=13 | Pass |
|                    | 3840    | Outer_Full | 6.78 | / | / | <=13 | Pass |
|                    | 3964.98 | Outer_Full | 6.66 | / | / | <=13 | Pass |
| CP-OFDM 16 QAM     | 3715.02 | Outer_Full | 7.21 | / | / | <=13 | Pass |
|                    | 3840    | Outer_Full | 6.79 | / | / | <=13 | Pass |
|                    | 3964.98 | Outer_Full | 6.69 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM     | 3715.02 | Outer_Full | 7.23 | / | / | <=13 | Pass |
|                    | 3840    | Outer_Full | 7.65 | / | / | <=13 | Pass |
|                    | 3964.98 | Outer_Full | 7.37 | / | / | <=13 | Pass |
| CP-OFDM 256 QAM    | 3715.02 | Outer_Full | 8.32 | / | / | <=13 | Pass |
|                    | 3840    | Outer_Full | 8.39 | / | / | <=13 | Pass |
|                    | 3964.98 | Outer_Full | 8.19 | / | / | <=13 | Pass |

#### 4.1.5 30k\_SISO\_40MHz\_NTNV

| 5G NR n77a SCS=30kHz SISO 40MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant13                   | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3720            | Outer_Full    | 4.08                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 3.90                    | /    | /   | <=13  | Pass    |
|                                     | 3960            | Outer_Full    | 4.13                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3720            | Outer_Full    | 5.15                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 4.70                    | /    | /   | <=13  | Pass    |
|                                     | 3960            | Outer_Full    | 4.89                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                   | 3720            | Outer_Full    | 6.14                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 5.69                    | /    | /   | <=13  | Pass    |
|                                     | 3960            | Outer_Full    | 5.85                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                   | 3720            | Outer_Full    | 6.17                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.33                    | /    | /   | <=13  | Pass    |
|                                     | 3960            | Outer_Full    | 6.24                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                  | 3720            | Outer_Full    | 6.55                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.36                    | /    | /   | <=13  | Pass    |
|                                     | 3960            | Outer_Full    | 6.34                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                        | 3720            | Outer_Full    | 7.17                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.74                    | /    | /   | <=13  | Pass    |
|                                     | 3960            | Outer_Full    | 6.77                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                      | 3720            | Outer_Full    | 7.17                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.88                    | /    | /   | <=13  | Pass    |
|                                     | 3960            | Outer_Full    | 6.85                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                      | 3720            | Outer_Full    | 7.17                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 7.66                    | /    | /   | <=13  | Pass    |
|                                     | 3960            | Outer_Full    | 7.40                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                     | 3720            | Outer_Full    | 8.46                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 8.45                    | /    | /   | <=13  | Pass    |

|  |      |            |      |   |   |      |      |
|--|------|------------|------|---|---|------|------|
|  | 3960 | Outer_Full | 8.31 | / | / | <=13 | Pass |
|--|------|------------|------|---|---|------|------|

#### 4.1.6 30k\_SISO\_50MHz\_NTNV

| 5G NR n77a SCS=30kHz SISO 50MHz NTV |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant13                   | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3725.01         | Outer_Full    | 4.28                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 4.14                    | /    | /   | <=13  | Pass    |
|                                     | 3954.99         | Outer_Full    | 4.36                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3725.01         | Outer_Full    | 5.29                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 4.67                    | /    | /   | <=13  | Pass    |
|                                     | 3954.99         | Outer_Full    | 5.00                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                   | 3725.01         | Outer_Full    | 6.17                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 5.69                    | /    | /   | <=13  | Pass    |
|                                     | 3954.99         | Outer_Full    | 5.87                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                   | 3725.01         | Outer_Full    | 6.33                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.28                    | /    | /   | <=13  | Pass    |
|                                     | 3954.99         | Outer_Full    | 6.01                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                  | 3725.01         | Outer_Full    | 6.65                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.48                    | /    | /   | <=13  | Pass    |
|                                     | 3954.99         | Outer_Full    | 6.46                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                        | 3725.01         | Outer_Full    | 7.30                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.76                    | /    | /   | <=13  | Pass    |
|                                     | 3954.99         | Outer_Full    | 7.01                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                      | 3725.01         | Outer_Full    | 7.26                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.76                    | /    | /   | <=13  | Pass    |
|                                     | 3954.99         | Outer_Full    | 6.96                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                      | 3725.01         | Outer_Full    | 7.41                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 7.72                    | /    | /   | <=13  | Pass    |
|                                     | 3954.99         | Outer_Full    | 7.57                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                     | 3725.01         | Outer_Full    | 8.51                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 8.46                    | /    | /   | <=13  | Pass    |
|                                     | 3954.99         | Outer_Full    | 8.28                    | /    | /   | <=13  | Pass    |

#### 4.1.7 30k\_SISO\_60MHz\_NTNV

| 5G NR n77a SCS=30kHz SISO 60MHz NTV |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant13                   | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3730.02         | Outer_Full    | 4.41                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 4.07                    | /    | /   | <=13  | Pass    |
|                                     | 3949.98         | Outer_Full    | 4.49                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3730.02         | Outer_Full    | 5.04                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 4.58                    | /    | /   | <=13  | Pass    |
|                                     | 3949.98         | Outer_Full    | 4.92                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                   | 3730.02         | Outer_Full    | 6.09                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 5.67                    | /    | /   | <=13  | Pass    |
|                                     | 3949.98         | Outer_Full    | 5.95                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                   | 3730.02         | Outer_Full    | 6.34                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.23                    | /    | /   | <=13  | Pass    |
|                                     | 3949.98         | Outer_Full    | 6.35                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                  | 3730.02         | Outer_Full    | 6.47                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.30                    | /    | /   | <=13  | Pass    |
|                                     | 3949.98         | Outer_Full    | 6.38                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                        | 3730.02         | Outer_Full    | 7.50                    | /    | /   | <=13  | Pass    |

|                 |         |            |      |   |   |      |      |
|-----------------|---------|------------|------|---|---|------|------|
| CP-OFDM 16 QAM  | 3840    | Outer_Full | 6.95 | / | / | <=13 | Pass |
|                 | 3949.98 | Outer_Full | 7.21 | / | / | <=13 | Pass |
|                 | 3730.02 | Outer_Full | 7.48 | / | / | <=13 | Pass |
|                 | 3840    | Outer_Full | 6.96 | / | / | <=13 | Pass |
|                 | 3949.98 | Outer_Full | 7.21 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM  | 3730.02 | Outer_Full | 7.54 | / | / | <=13 | Pass |
|                 | 3840    | Outer_Full | 7.71 | / | / | <=13 | Pass |
|                 | 3949.98 | Outer_Full | 7.67 | / | / | <=13 | Pass |
| CP-OFDM 256 QAM | 3730.02 | Outer_Full | 8.35 | / | / | <=13 | Pass |
|                 | 3840    | Outer_Full | 8.33 | / | / | <=13 | Pass |
|                 | 3949.98 | Outer_Full | 8.29 | / | / | <=13 | Pass |

#### 4.1.8 30k\_SISO\_70MHz\_NTNV

| 5G NR n77a SCS=30kHz SISO 70MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant13                   | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3735            | Outer_Full    | 4.09                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 4.05                    | /    | /   | <=13  | Pass    |
|                                     | 3945            | Outer_Full    | 3.98                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3735            | Outer_Full    | 4.77                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 4.56                    | /    | /   | <=13  | Pass    |
|                                     | 3945            | Outer_Full    | 4.81                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                   | 3735            | Outer_Full    | 5.98                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 5.79                    | /    | /   | <=13  | Pass    |
|                                     | 3945            | Outer_Full    | 6.01                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                   | 3735            | Outer_Full    | 6.33                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.23                    | /    | /   | <=13  | Pass    |
|                                     | 3945            | Outer_Full    | 6.33                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                  | 3735            | Outer_Full    | 6.50                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 6.31                    | /    | /   | <=13  | Pass    |
|                                     | 3945            | Outer_Full    | 6.42                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                        | 3735            | Outer_Full    | 7.73                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 7.45                    | /    | /   | <=13  | Pass    |
|                                     | 3945            | Outer_Full    | 7.63                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                      | 3735            | Outer_Full    | 8.00                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 7.65                    | /    | /   | <=13  | Pass    |
|                                     | 3945            | Outer_Full    | 7.72                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                      | 3735            | Outer_Full    | 7.95                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 8.08                    | /    | /   | <=13  | Pass    |
|                                     | 3945            | Outer_Full    | 8.02                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                     | 3735            | Outer_Full    | 8.52                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 8.43                    | /    | /   | <=13  | Pass    |
|                                     | 3945            | Outer_Full    | 8.45                    | /    | /   | <=13  | Pass    |

#### 4.1.9 30k\_SISO\_80MHz\_NTNV

| 5G NR n77a SCS=30kHz SISO 80MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant13                   | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3740.01         | Outer_Full    | 3.83                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 3.75                    | /    | /   | <=13  | Pass    |
|                                     | 3939.99         | Outer_Full    | 3.96                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3740.01         | Outer_Full    | 4.94                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer_Full    | 4.52                    | /    | /   | <=13  | Pass    |
|                                     | 3939.99         | Outer_Full    | 5.05                    | /    | /   | <=13  | Pass    |

|                    |         |            |      |   |   |      |      |
|--------------------|---------|------------|------|---|---|------|------|
| DFT-s-OFDM 16 QAM  | 3740.01 | Outer Full | 6.22 | / | / | <=13 | Pass |
|                    | 3840    | Outer Full | 5.97 | / | / | <=13 | Pass |
|                    | 3939.99 | Outer Full | 6.24 | / | / | <=13 | Pass |
| DFT-s-OFDM 64 QAM  | 3740.01 | Outer Full | 6.40 | / | / | <=13 | Pass |
|                    | 3840    | Outer Full | 6.28 | / | / | <=13 | Pass |
|                    | 3939.99 | Outer Full | 6.43 | / | / | <=13 | Pass |
| DFT-s-OFDM 256 QAM | 3740.01 | Outer Full | 6.58 | / | / | <=13 | Pass |
|                    | 3840    | Outer Full | 6.39 | / | / | <=13 | Pass |
|                    | 3939.99 | Outer Full | 6.59 | / | / | <=13 | Pass |
| CP-OFDM QPSK       | 3740.01 | Outer Full | 7.75 | / | / | <=13 | Pass |
|                    | 3840    | Outer Full | 7.46 | / | / | <=13 | Pass |
|                    | 3939.99 | Outer Full | 7.55 | / | / | <=13 | Pass |
| CP-OFDM 16 QAM     | 3740.01 | Outer Full | 7.81 | / | / | <=13 | Pass |
|                    | 3840    | Outer Full | 7.50 | / | / | <=13 | Pass |
|                    | 3939.99 | Outer Full | 7.59 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM     | 3740.01 | Outer Full | 7.84 | / | / | <=13 | Pass |
|                    | 3840    | Outer Full | 7.96 | / | / | <=13 | Pass |
|                    | 3939.99 | Outer Full | 7.82 | / | / | <=13 | Pass |
| CP-OFDM 256 QAM    | 3740.01 | Outer Full | 8.38 | / | / | <=13 | Pass |
|                    | 3840    | Outer Full | 8.36 | / | / | <=13 | Pass |
|                    | 3939.99 | Outer Full | 8.27 | / | / | <=13 | Pass |

#### 4.1.10 30k\_SISO\_90MHz\_NTNV

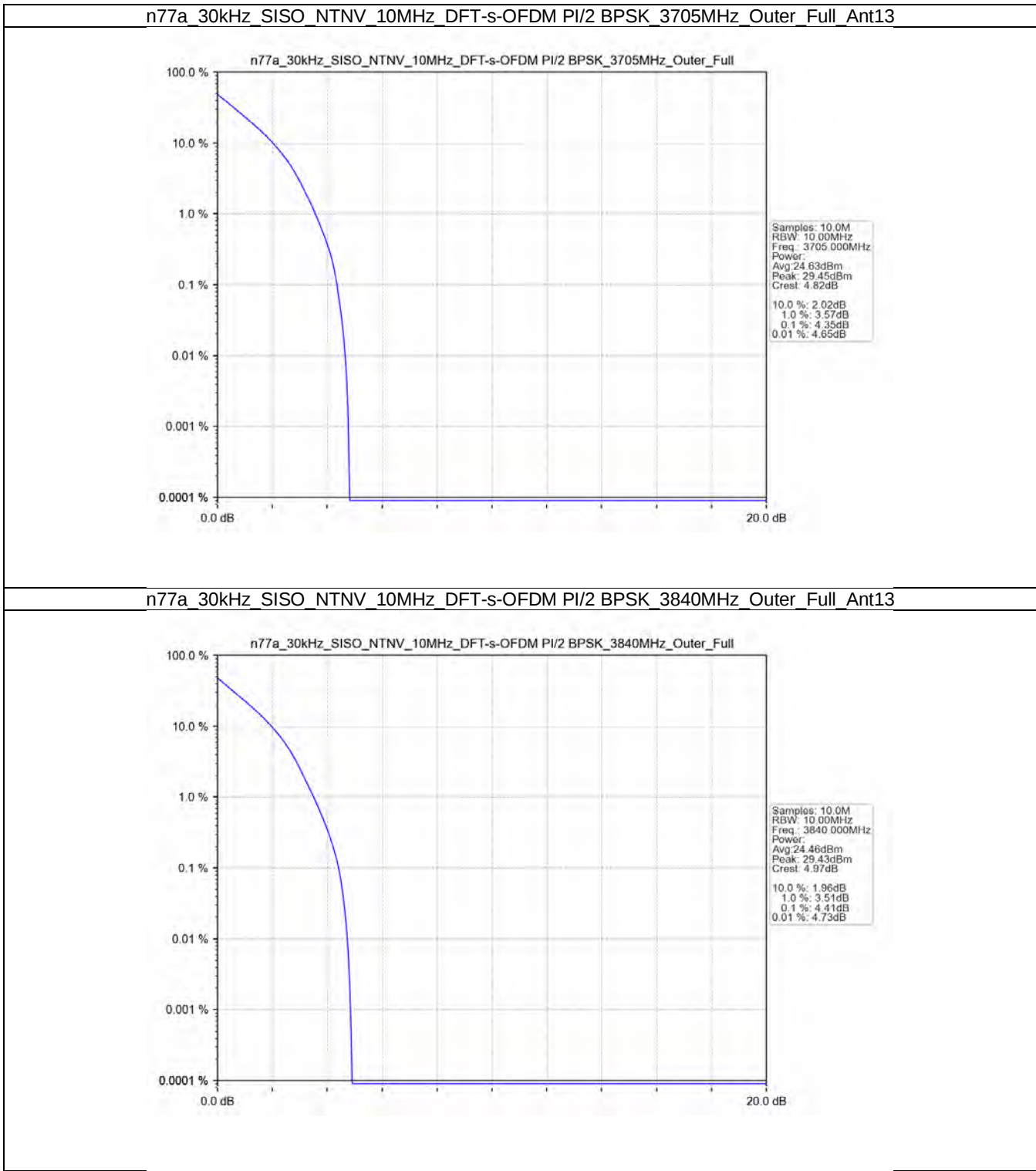
| 5G NR n77a SCS=30kHz SISO 90MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant13                   | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3745.02         | Outer Full    | 4.23                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer Full    | 4.07                    | /    | /   | <=13  | Pass    |
|                                     | 3934.98         | Outer Full    | 4.05                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3745.02         | Outer Full    | 5.28                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer Full    | 4.83                    | /    | /   | <=13  | Pass    |
|                                     | 3934.98         | Outer Full    | 5.38                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                   | 3745.02         | Outer Full    | 6.47                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer Full    | 6.25                    | /    | /   | <=13  | Pass    |
|                                     | 3934.98         | Outer Full    | 6.51                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                   | 3745.02         | Outer Full    | 6.61                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer Full    | 6.42                    | /    | /   | <=13  | Pass    |
|                                     | 3934.98         | Outer Full    | 6.67                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                  | 3745.02         | Outer Full    | 6.65                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer Full    | 6.46                    | /    | /   | <=13  | Pass    |
|                                     | 3934.98         | Outer Full    | 6.64                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                        | 3745.02         | Outer Full    | 7.90                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer Full    | 7.66                    | /    | /   | <=13  | Pass    |
|                                     | 3934.98         | Outer Full    | 7.76                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                      | 3745.02         | Outer Full    | 7.94                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer Full    | 7.65                    | /    | /   | <=13  | Pass    |
|                                     | 3934.98         | Outer Full    | 7.76                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                      | 3745.02         | Outer Full    | 7.98                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer Full    | 8.05                    | /    | /   | <=13  | Pass    |
|                                     | 3934.98         | Outer Full    | 8.12                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                     | 3745.02         | Outer Full    | 8.34                    | /    | /   | <=13  | Pass    |
|                                     | 3840            | Outer Full    | 8.32                    | /    | /   | <=13  | Pass    |
|                                     | 3934.98         | Outer Full    | 8.27                    | /    | /   | <=13  | Pass    |

#### 4.1.11 30k\_SISO\_100MHz\_NTNV

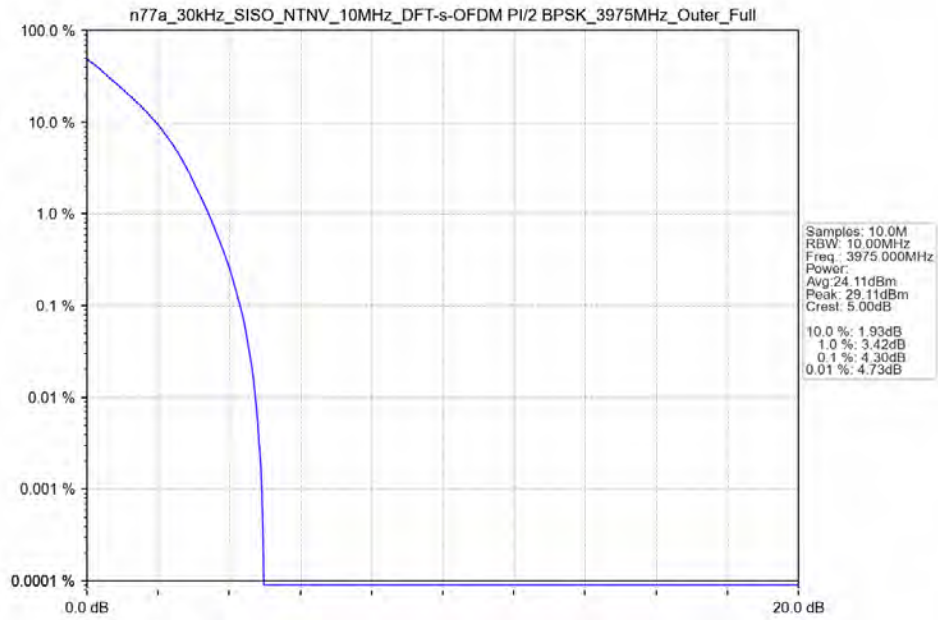
| 5G NR n77a SCS=30kHz SISO 100MHz NTN |                 |               |                         |      |     |       |         |
|--------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                           | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                      |                 |               | Ant13                   | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                 | 3750            | Outer_Full    | 4.13                    | /    | /   | <=13  | Pass    |
|                                      | 3840            | Outer_Full    | 4.04                    | /    | /   | <=13  | Pass    |
|                                      | 3930            | Outer_Full    | 4.21                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                      | 3750            | Outer_Full    | 5.47                    | /    | /   | <=13  | Pass    |
|                                      | 3840            | Outer_Full    | 5.12                    | /    | /   | <=13  | Pass    |
|                                      | 3930            | Outer_Full    | 5.62                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                    | 3750            | Outer_Full    | 6.53                    | /    | /   | <=13  | Pass    |
|                                      | 3840            | Outer_Full    | 6.35                    | /    | /   | <=13  | Pass    |
|                                      | 3930            | Outer_Full    | 6.59                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                    | 3750            | Outer_Full    | 6.71                    | /    | /   | <=13  | Pass    |
|                                      | 3840            | Outer_Full    | 6.54                    | /    | /   | <=13  | Pass    |
|                                      | 3930            | Outer_Full    | 6.75                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                   | 3750            | Outer_Full    | 6.80                    | /    | /   | <=13  | Pass    |
|                                      | 3840            | Outer_Full    | 6.62                    | /    | /   | <=13  | Pass    |
|                                      | 3930            | Outer_Full    | 6.87                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                         | 3750            | Outer_Full    | 7.97                    | /    | /   | <=13  | Pass    |
|                                      | 3840            | Outer_Full    | 7.75                    | /    | /   | <=13  | Pass    |
|                                      | 3930            | Outer_Full    | 7.87                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                       | 3750            | Outer_Full    | 8.01                    | /    | /   | <=13  | Pass    |
|                                      | 3840            | Outer_Full    | 7.83                    | /    | /   | <=13  | Pass    |
|                                      | 3930            | Outer_Full    | 7.84                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                       | 3750            | Outer_Full    | 8.06                    | /    | /   | <=13  | Pass    |
|                                      | 3840            | Outer_Full    | 8.13                    | /    | /   | <=13  | Pass    |
|                                      | 3930            | Outer_Full    | 8.14                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                      | 3750            | Outer_Full    | 8.27                    | /    | /   | <=13  | Pass    |
|                                      | 3840            | Outer_Full    | 8.27                    | /    | /   | <=13  | Pass    |
|                                      | 3930            | Outer_Full    | 8.14                    | /    | /   | <=13  | Pass    |

# 4.2 Test Graph

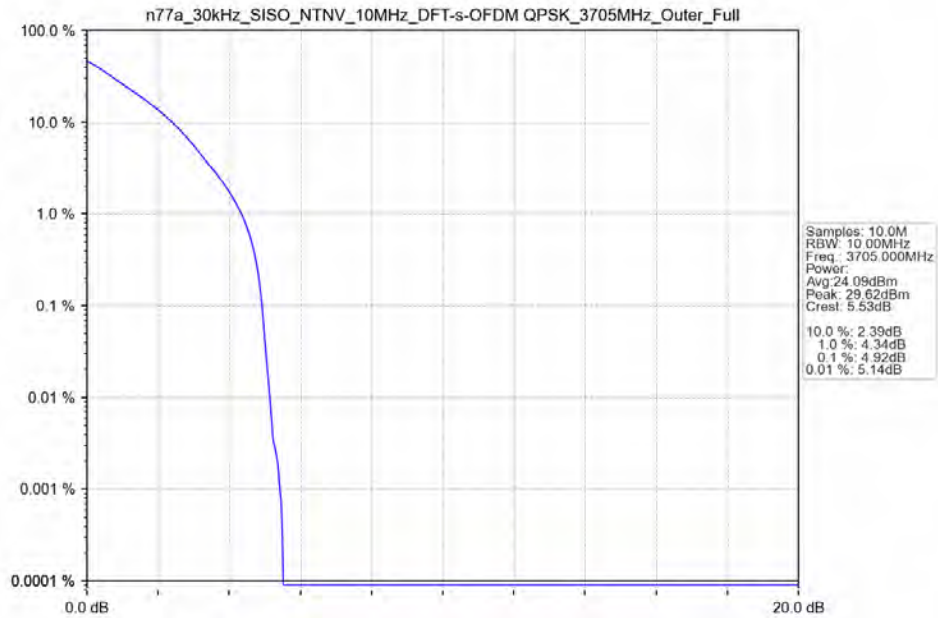
## 4.2.1 30k\_SISO\_10MHz\_NTNV



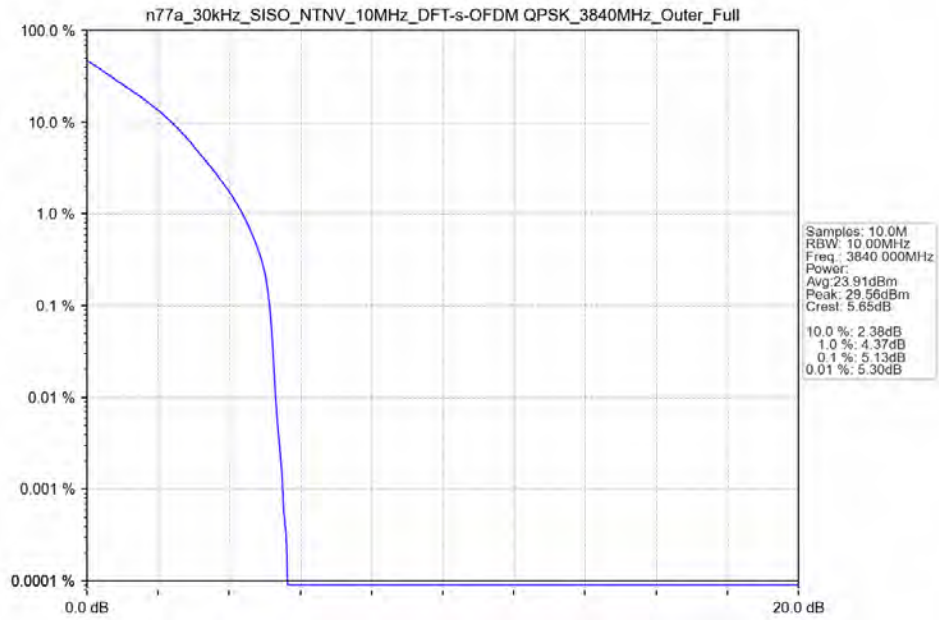
n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_3975MHz\_Outer\_Full\_Ant13



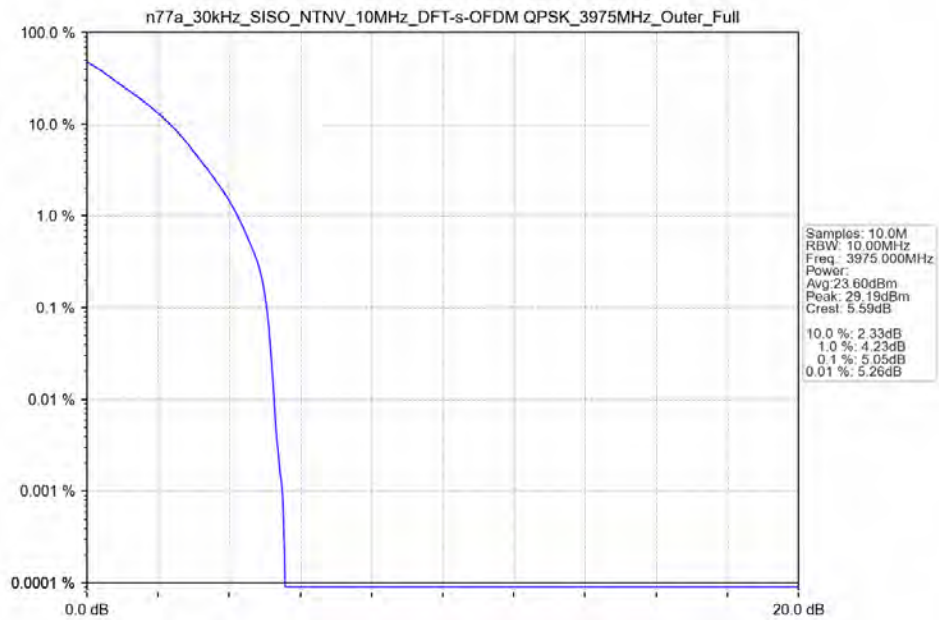
n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_3705MHz\_Outer\_Full\_Ant13



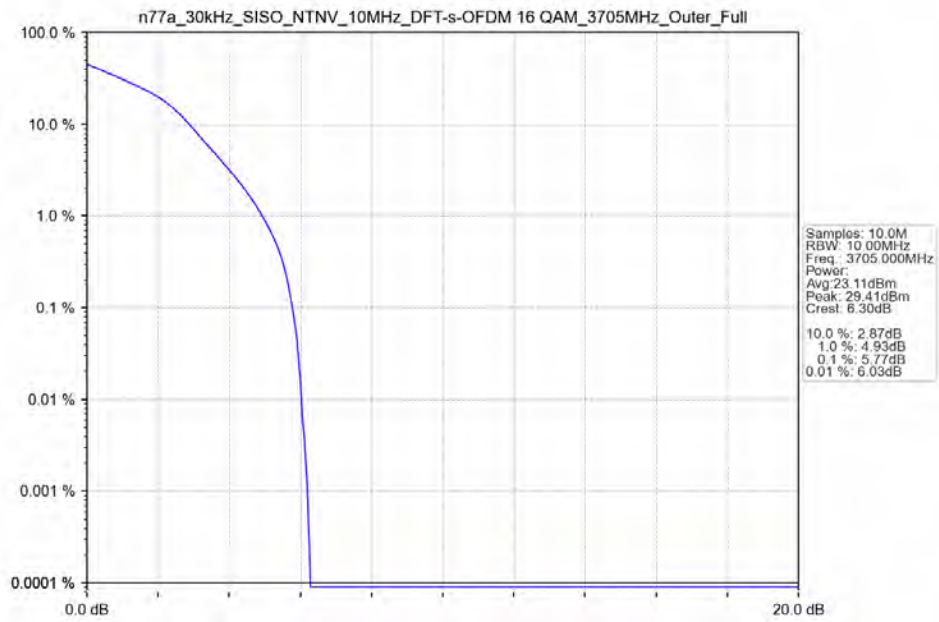
n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_QPSK\_3840MHz\_Outer\_Full\_Ant13



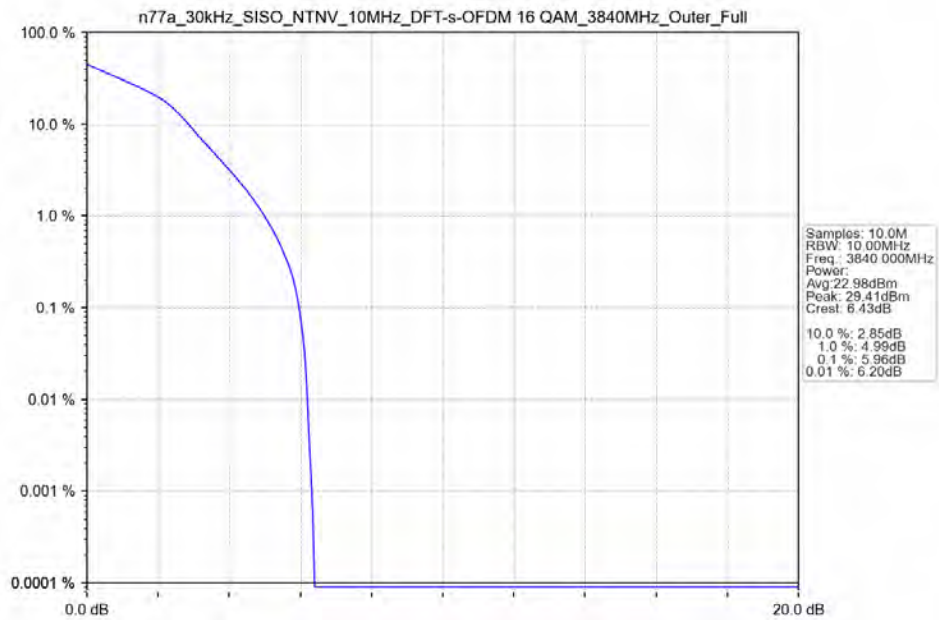
n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_QPSK\_3975MHz\_Outer\_Full\_Ant13



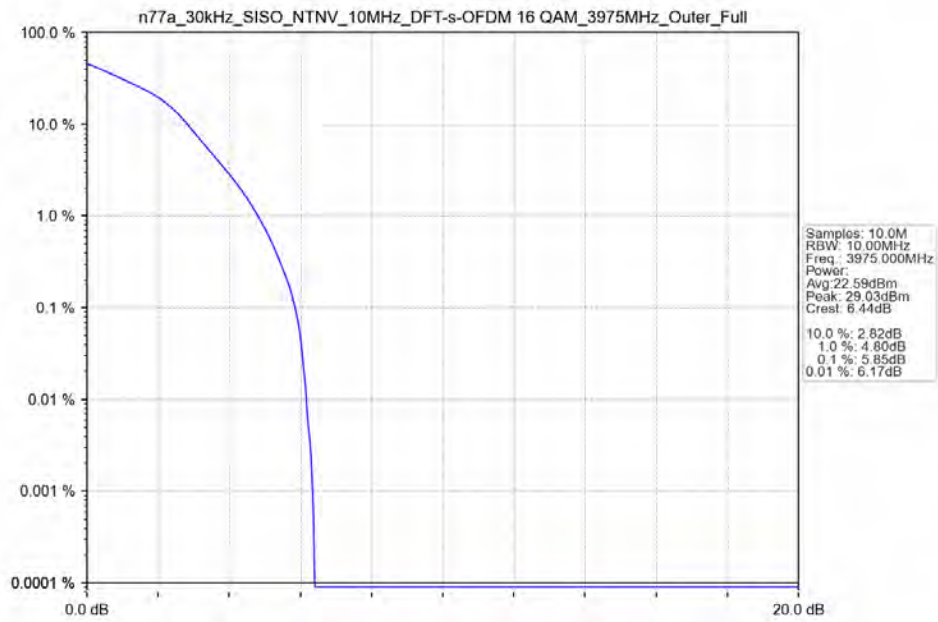
n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_16\_QAM\_3705MHz\_Outer\_Full\_Ant13



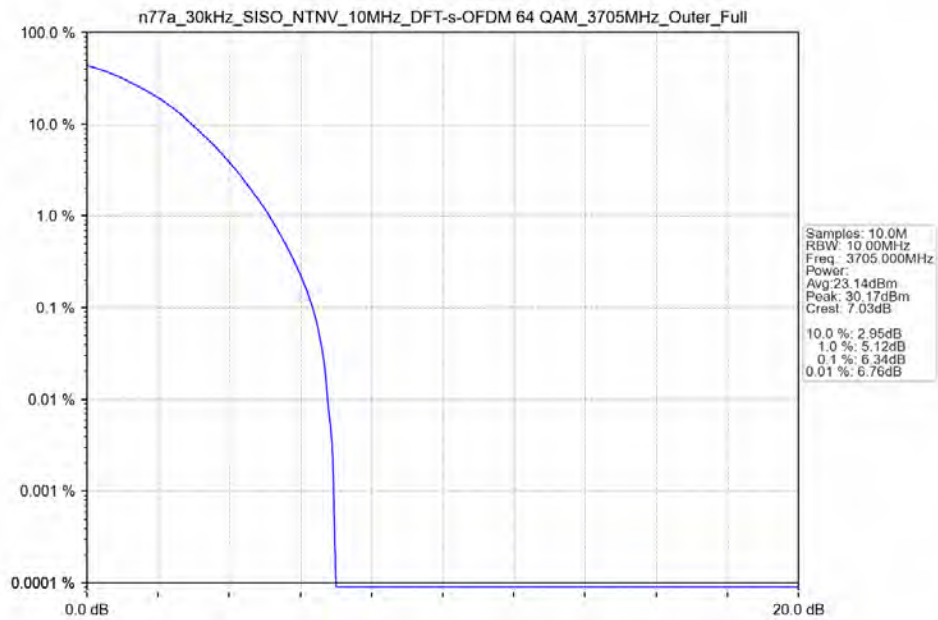
n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_16\_QAM\_3840MHz\_Outer\_Full\_Ant13



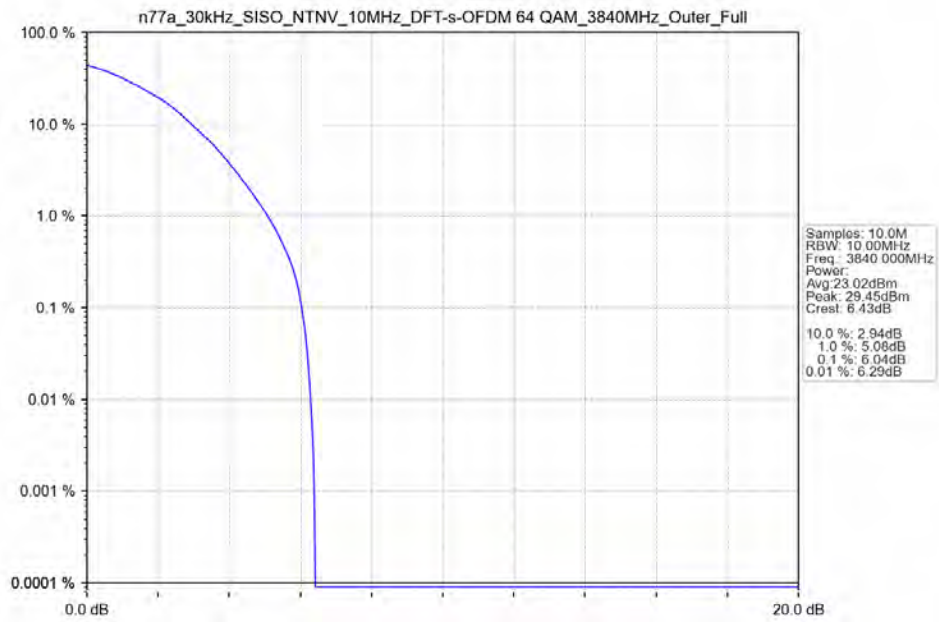
n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_16\_QAM\_3975MHz\_Outer\_Full\_Ant13



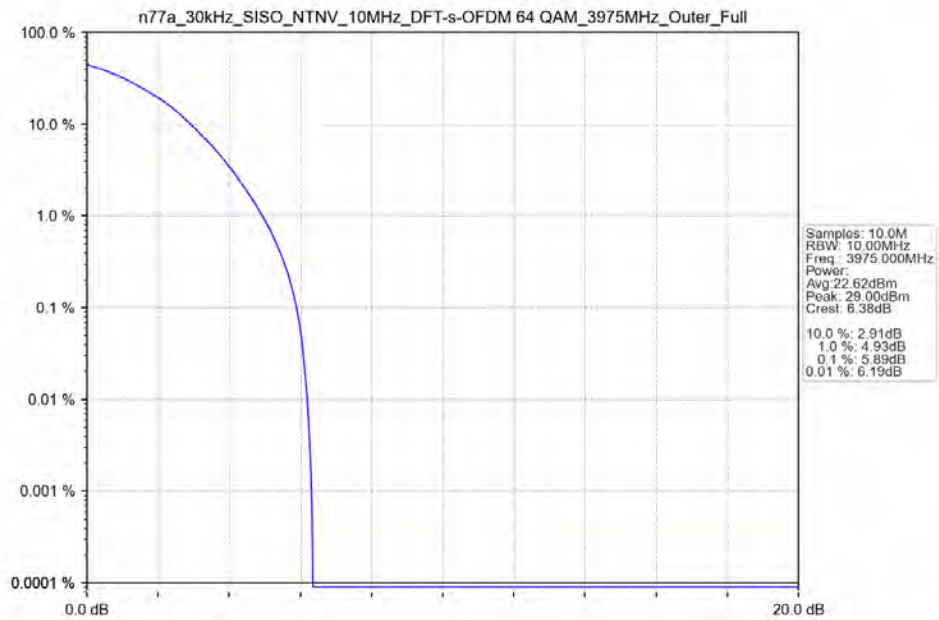
n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_64\_QAM\_3705MHz\_Outer\_Full\_Ant13



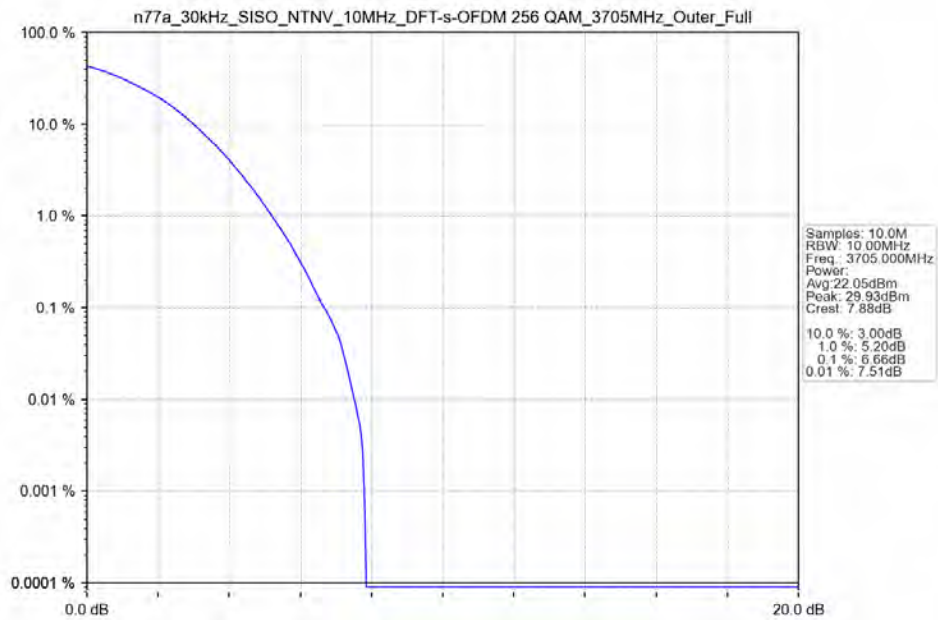
n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_64\_QAM\_3840MHz\_Outer\_Full\_Ant13



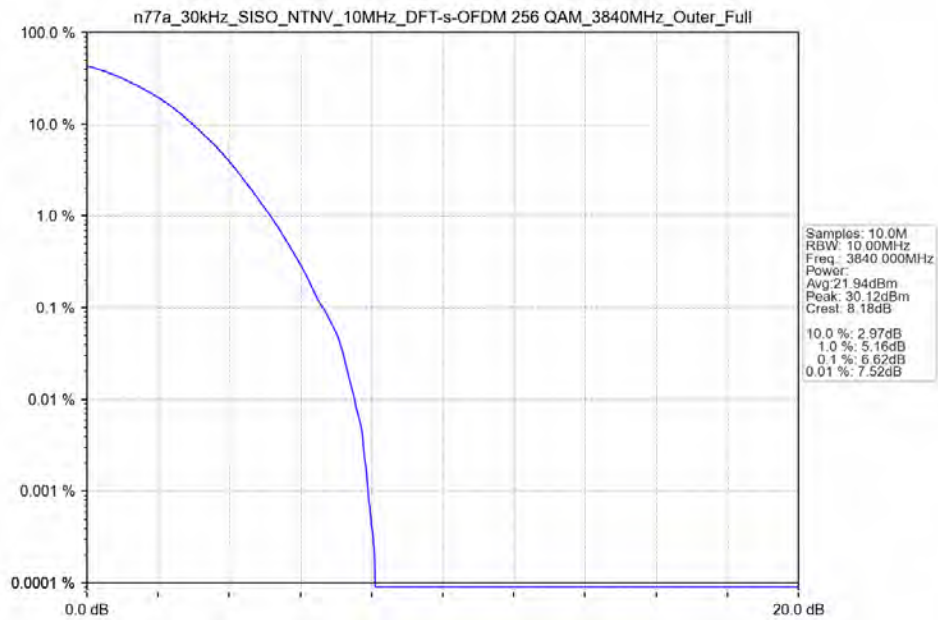
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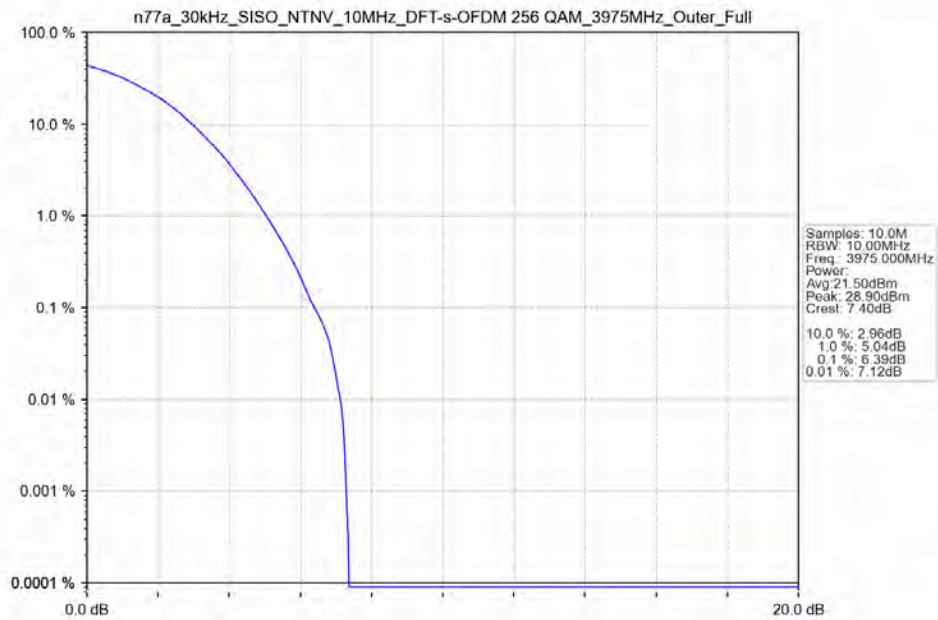
n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_3705MHz\_Outer\_Full\_Ant13



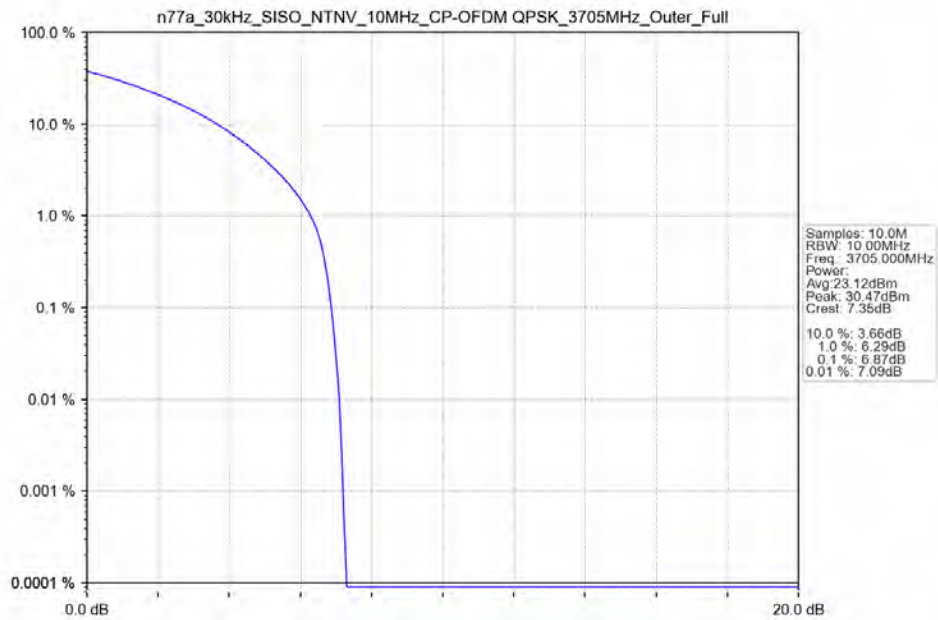
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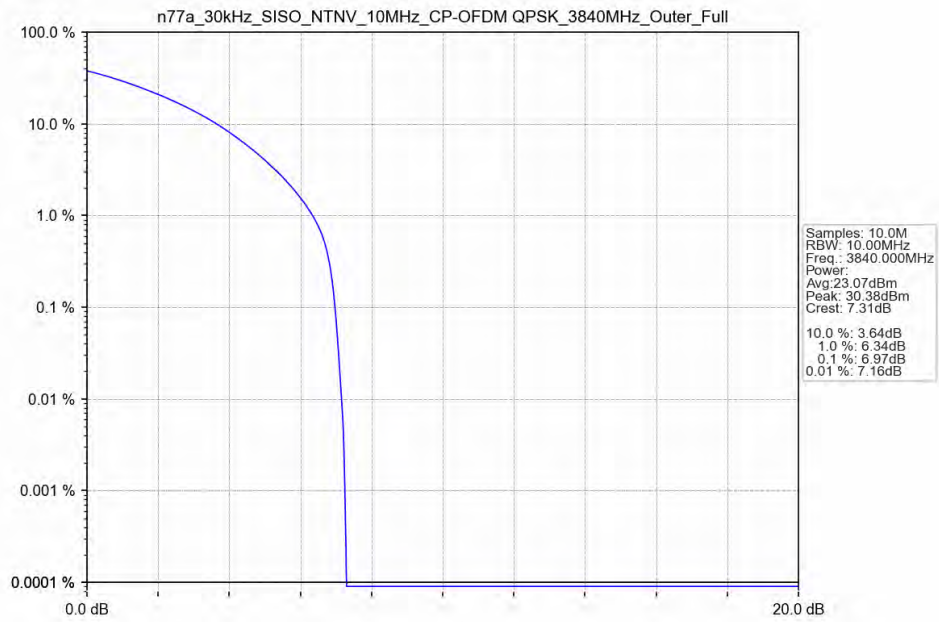
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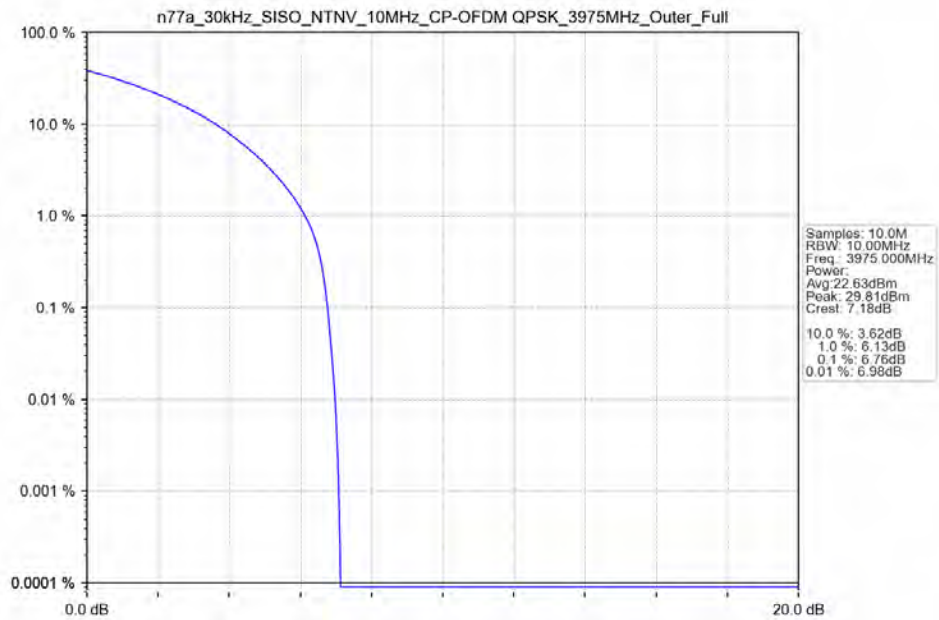
n77a\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_3705MHz\_Outer\_Full\_Ant13



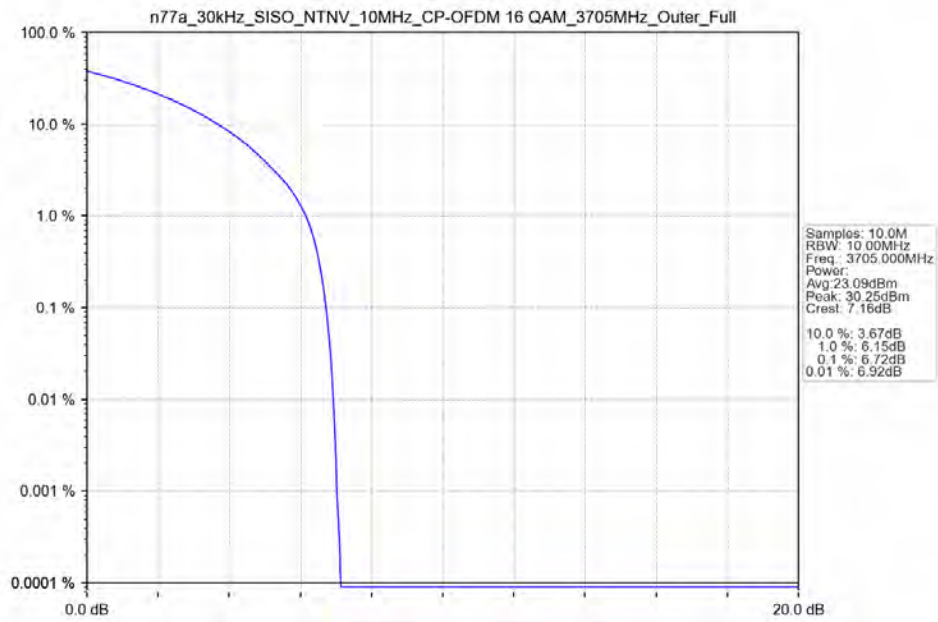
n77a\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_3840MHz\_Outer\_Full\_Ant13



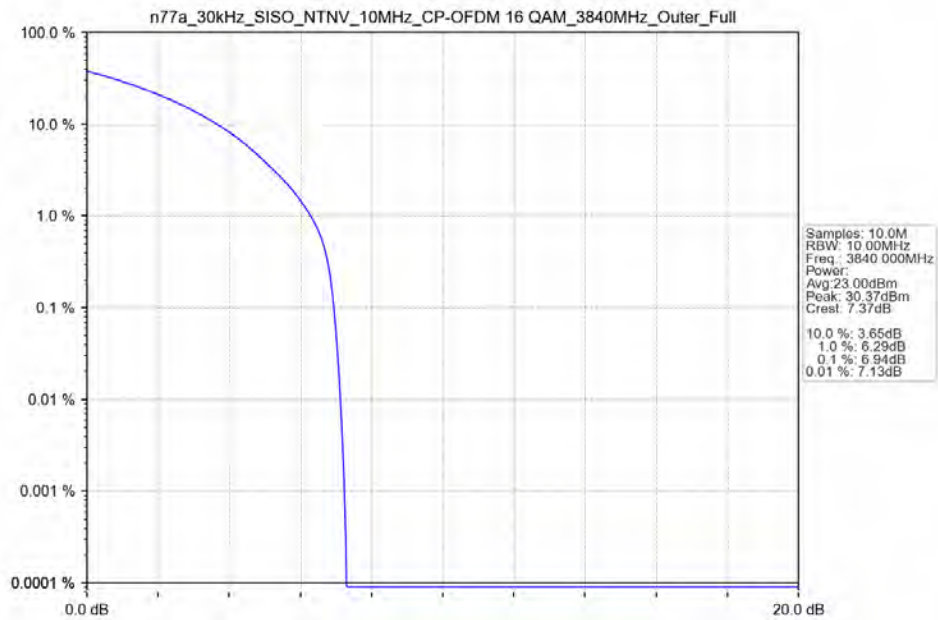
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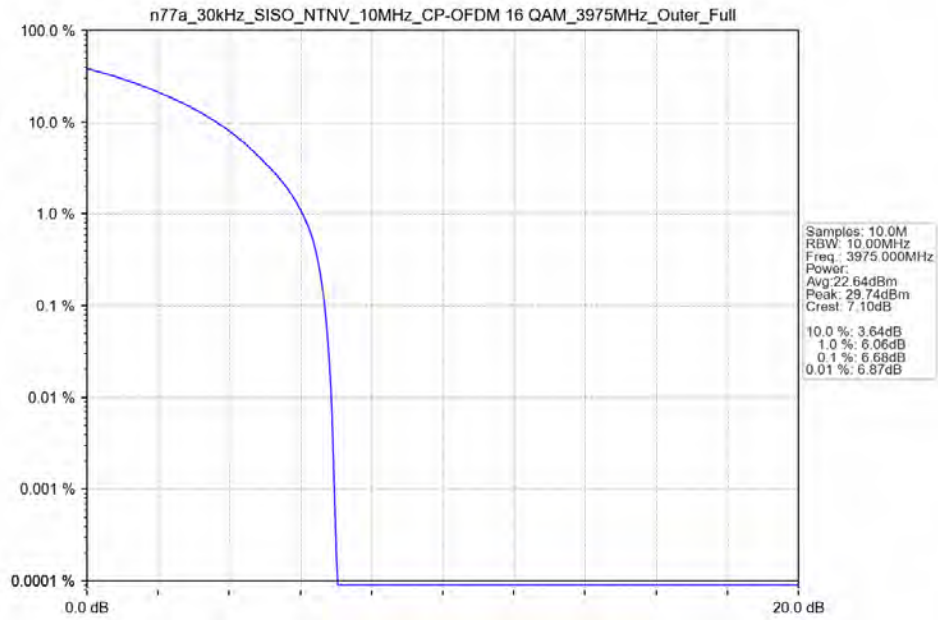
n77a\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_16\_QAM\_3705MHz\_Outer\_Full\_Ant13



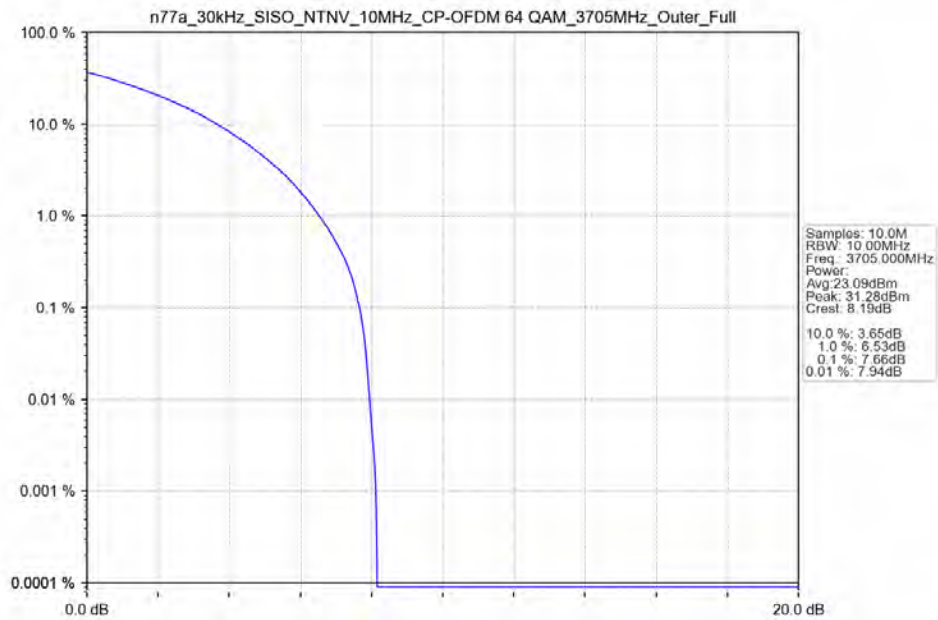
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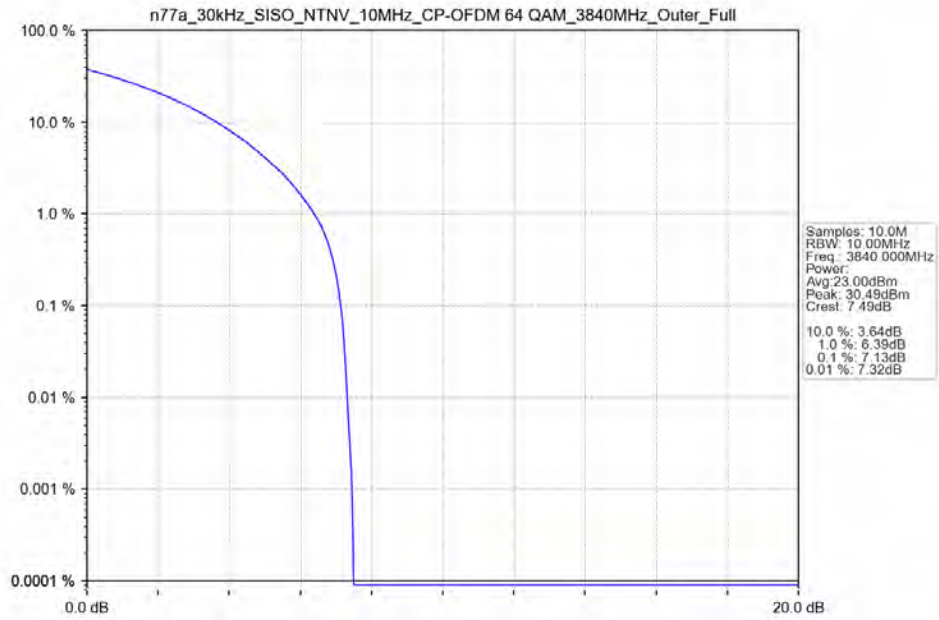
n77a\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_16\_QAM\_3975MHz\_Outer\_Full\_Ant13



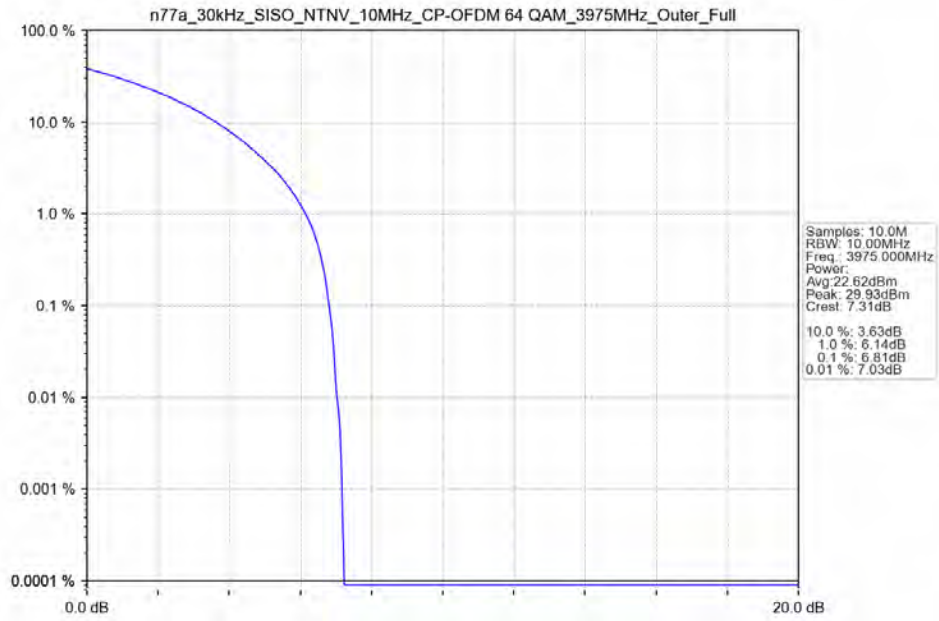
n77a\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_64\_QAM\_3705MHz\_Outer\_Full\_Ant13



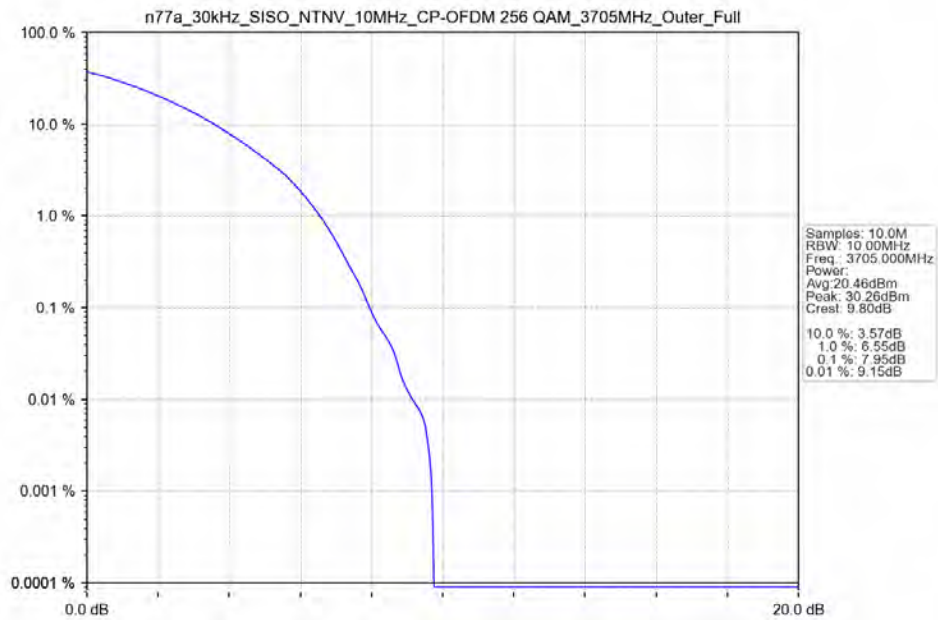
n77a\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_64\_QAM\_3840MHz\_Outer\_Full\_Ant13



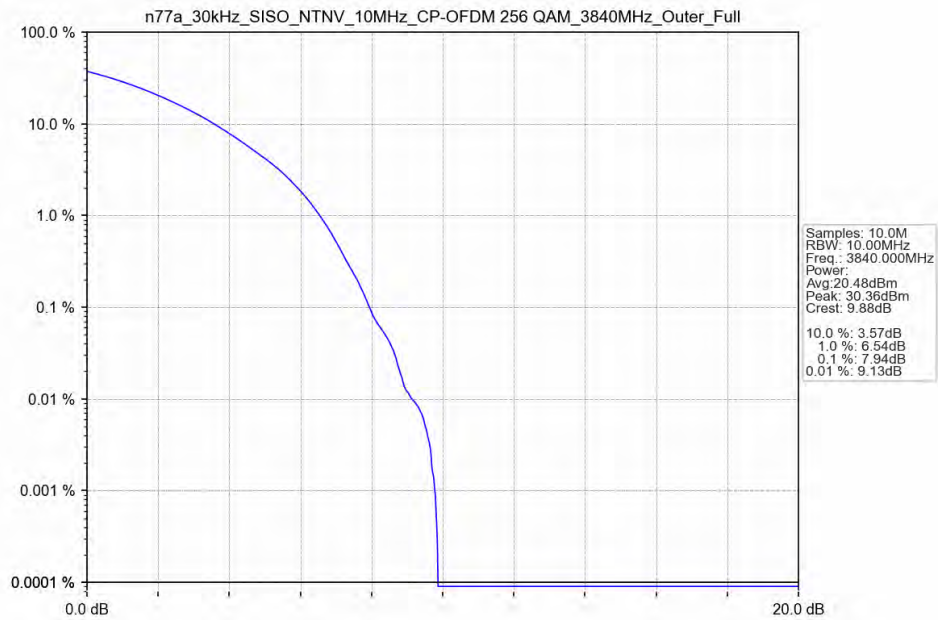
n77a\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_64\_QAM\_3975MHz\_Outer\_Full\_Ant13



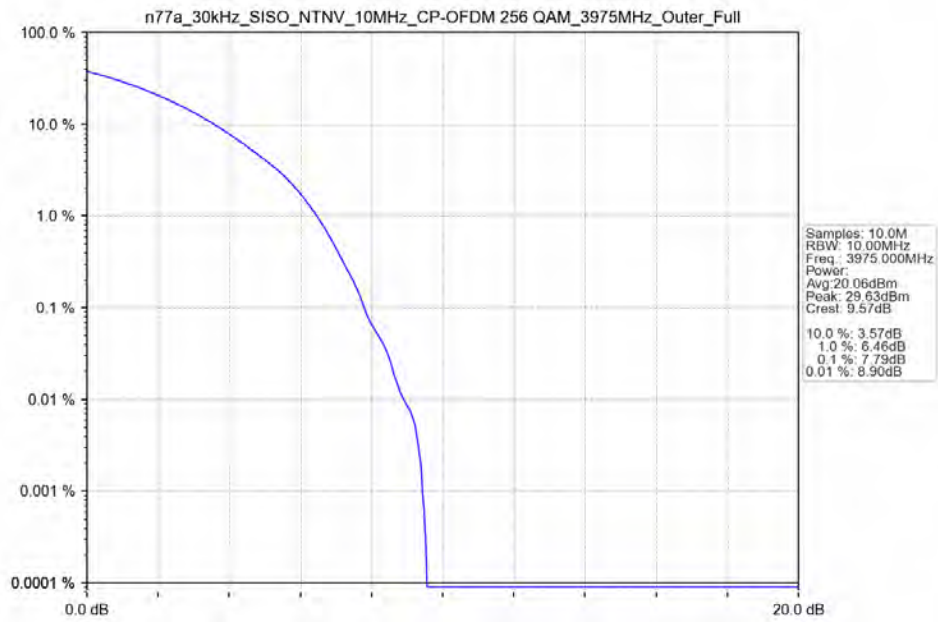
n77a\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_256\_QAM\_3705MHz\_Outer\_Full\_Ant13



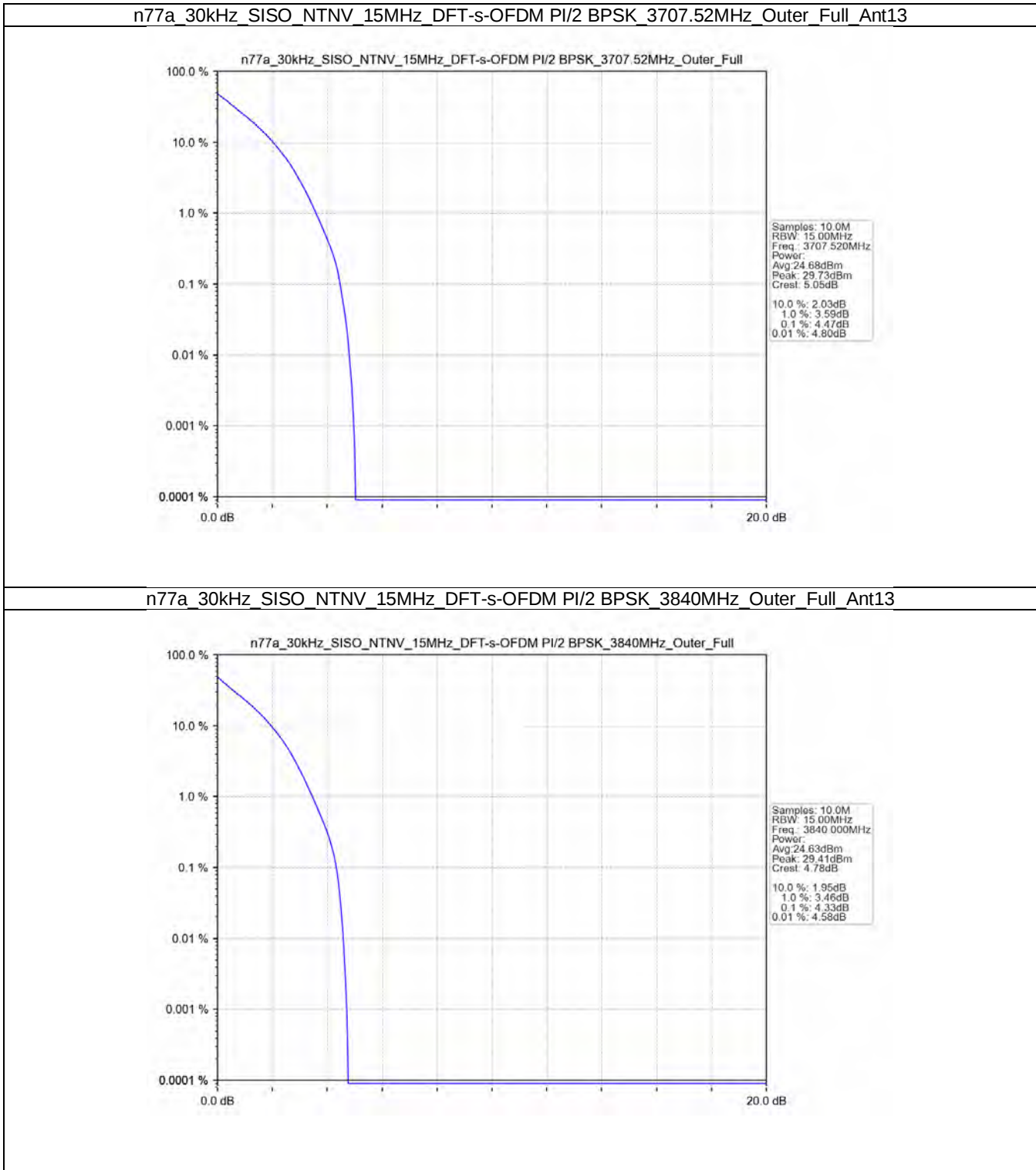
n77a\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_256\_QAM\_3840MHz\_Outer\_Full\_Ant13



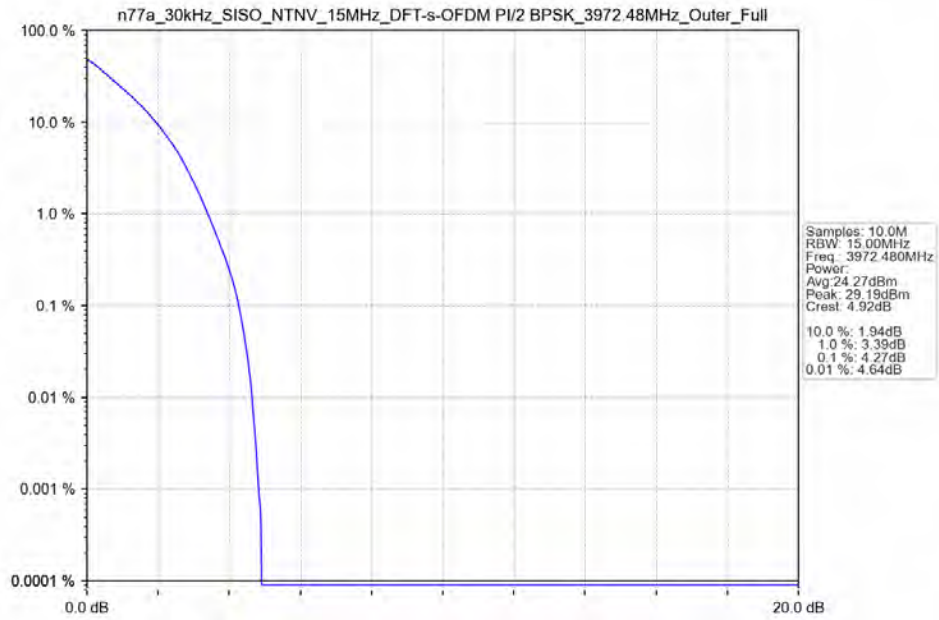
n77a\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_256\_QAM\_3975MHz\_Outer\_Full\_Ant13



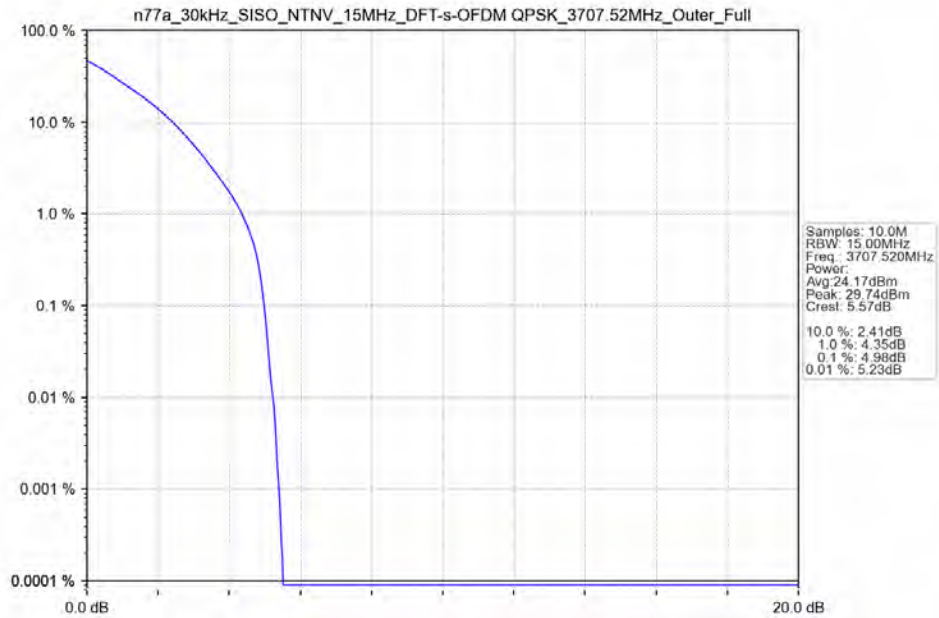
4.2.2 30k\_SISO\_15MHz\_NTNV



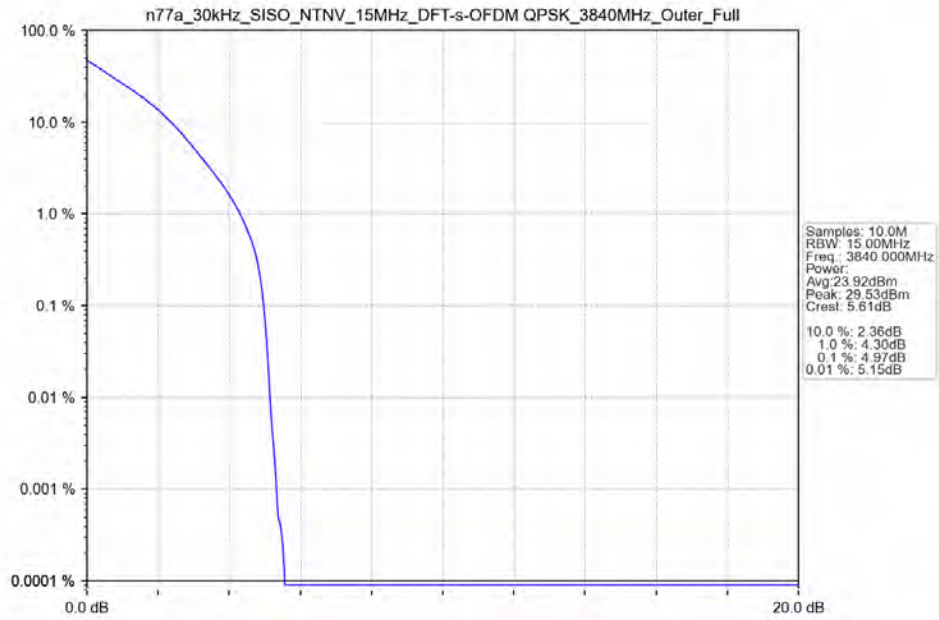
n77a 30kHz SISO NTN 15MHz DFT-s-OFDM PI/2 BPSK 3972.48MHz Outer Full Ant13



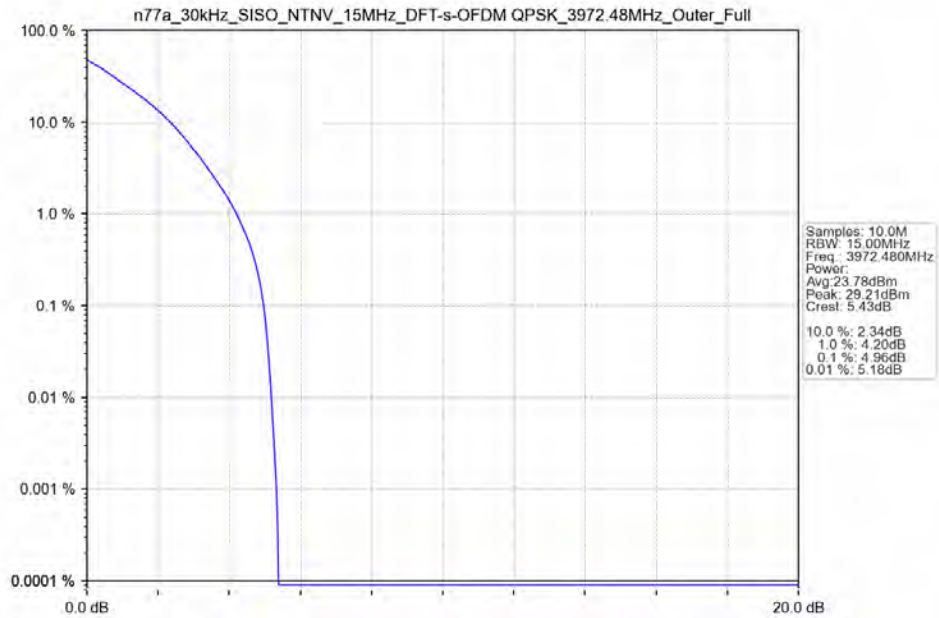
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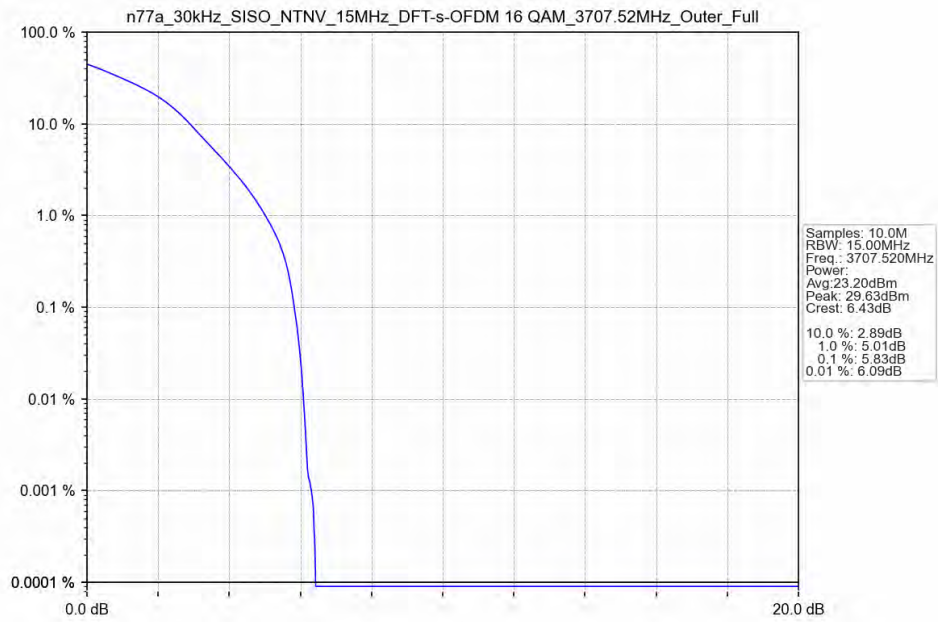
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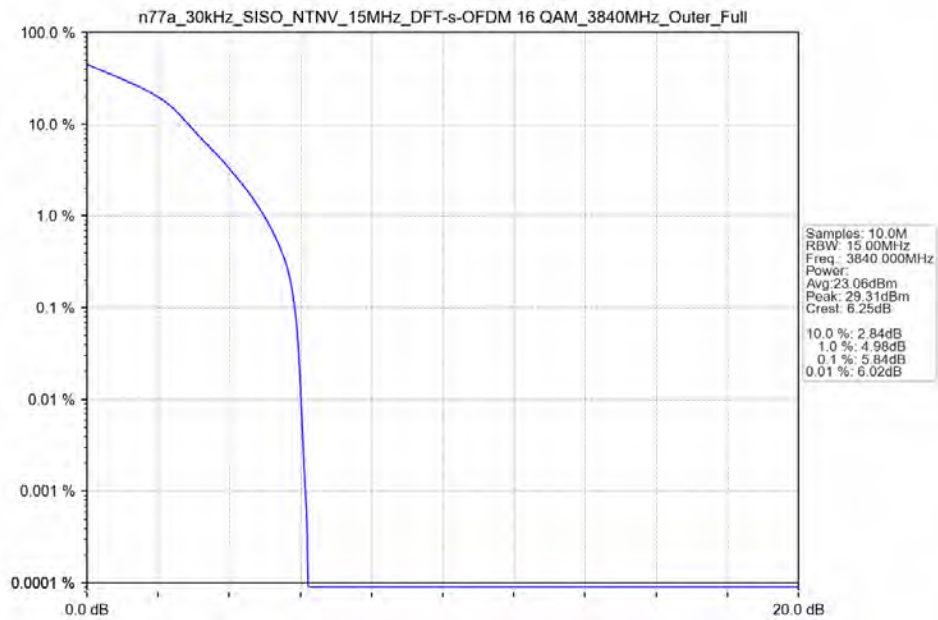
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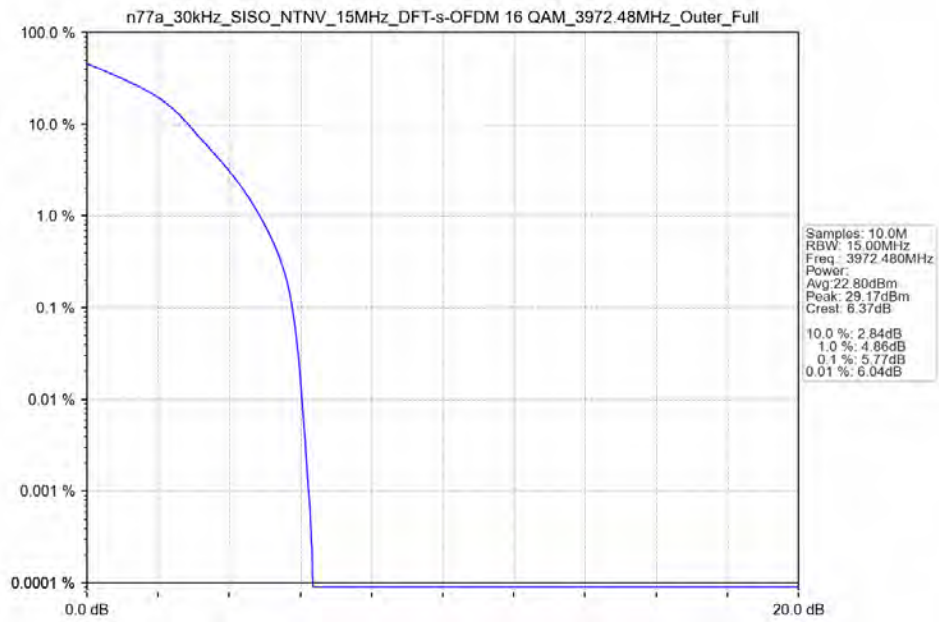
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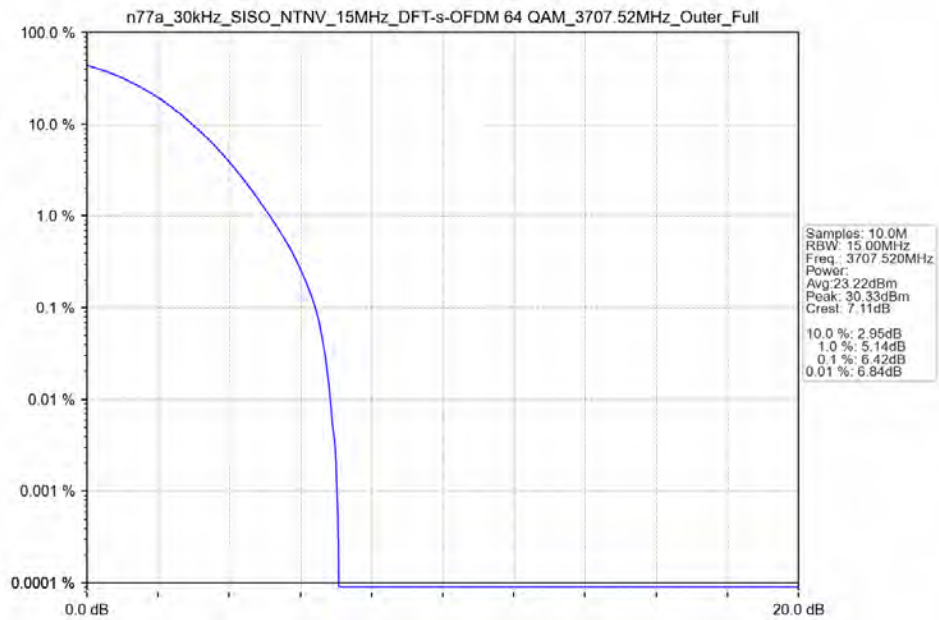
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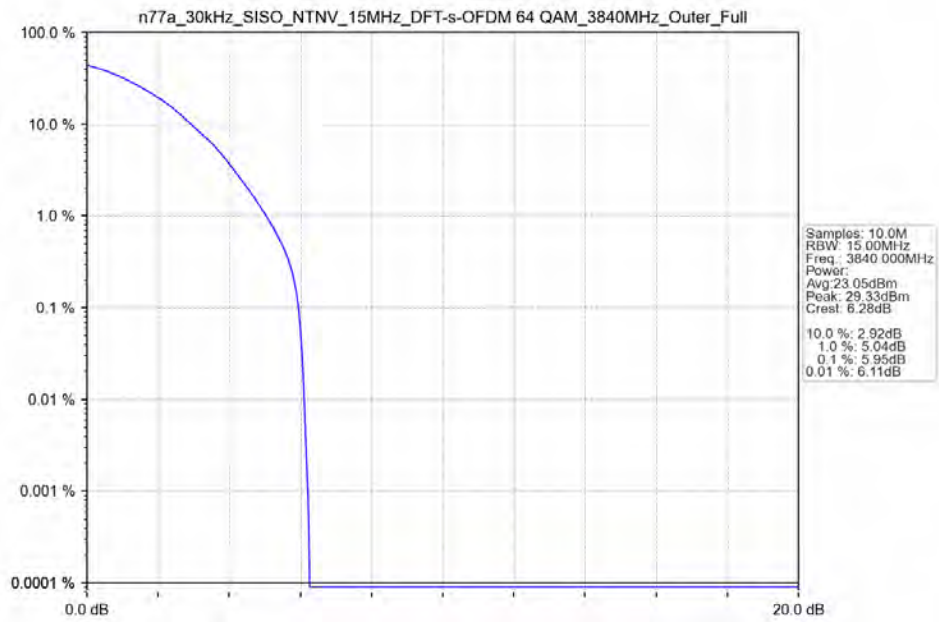
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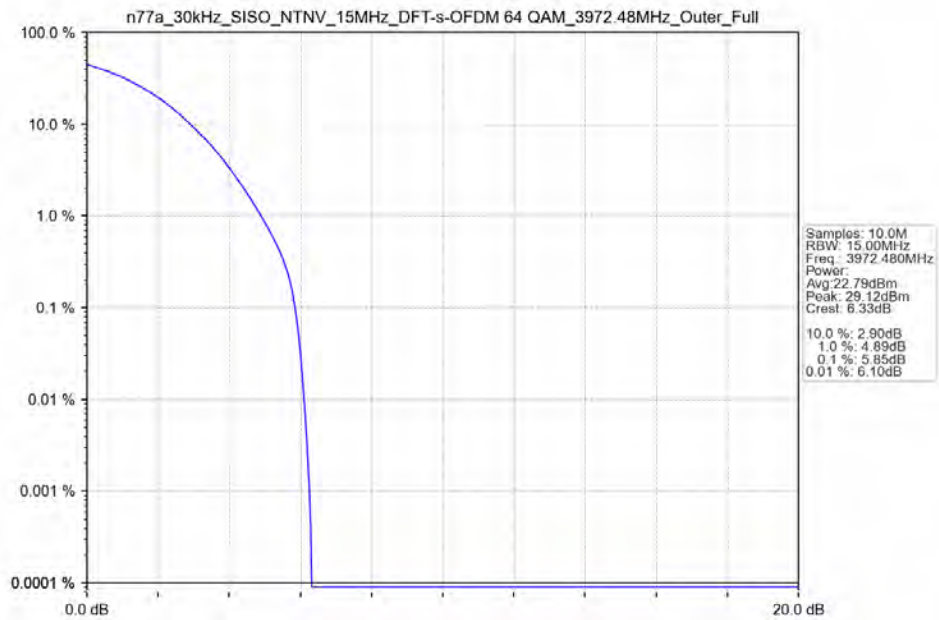
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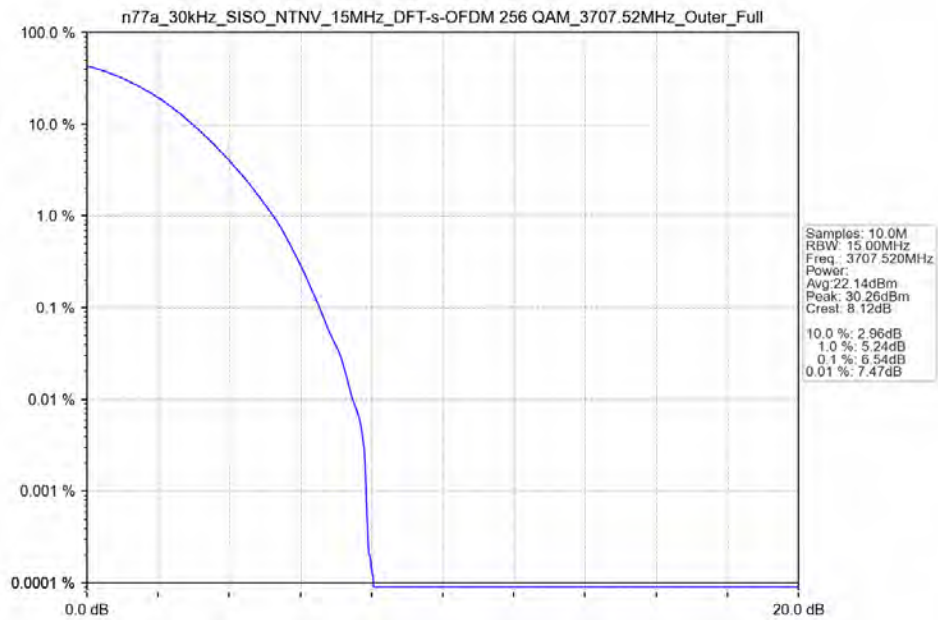
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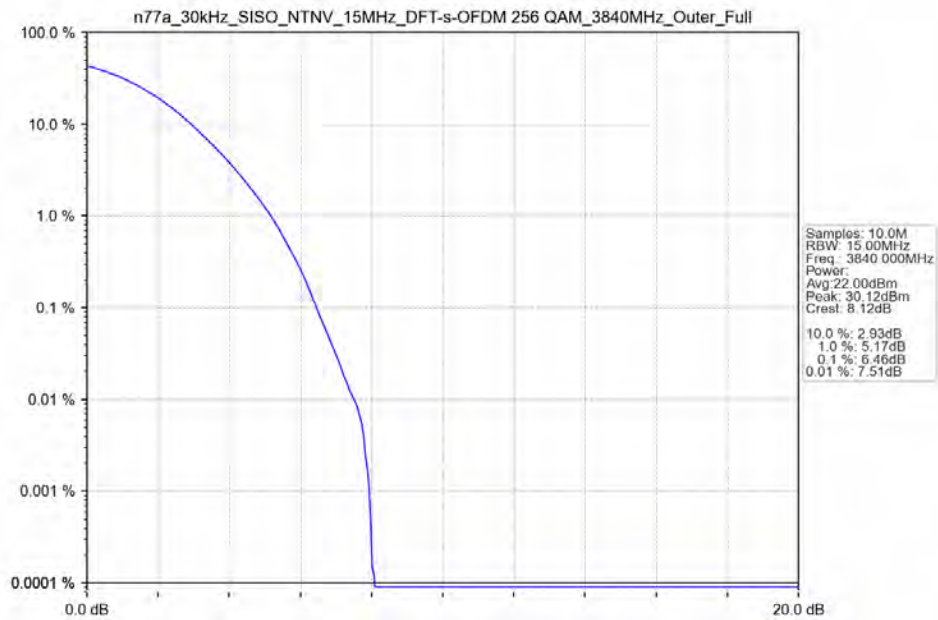
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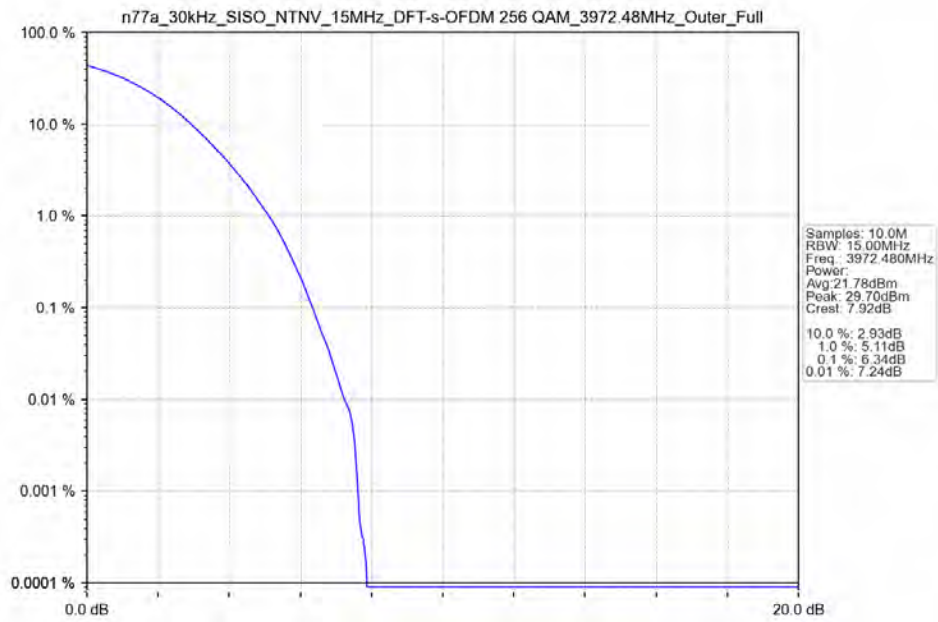
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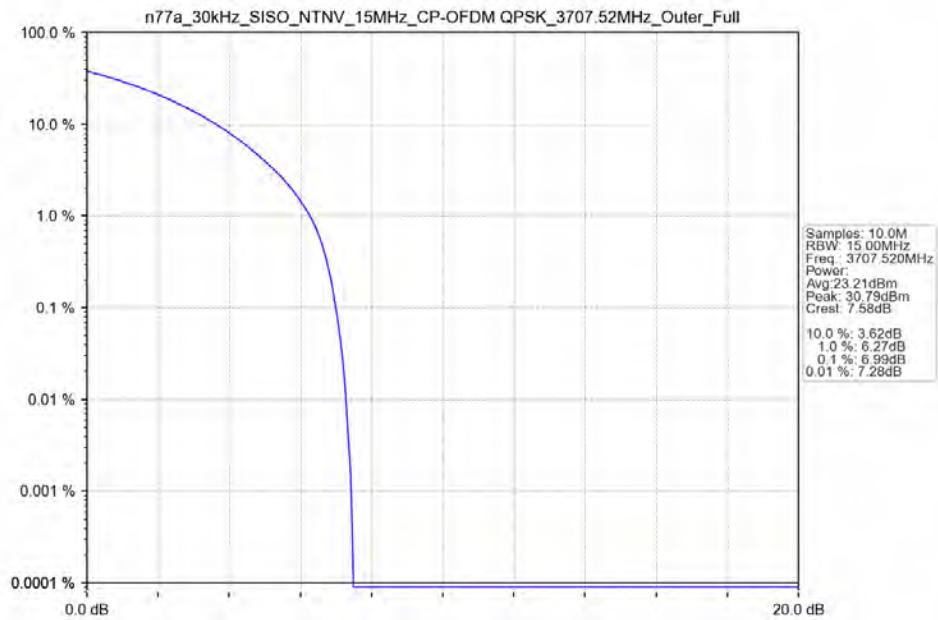
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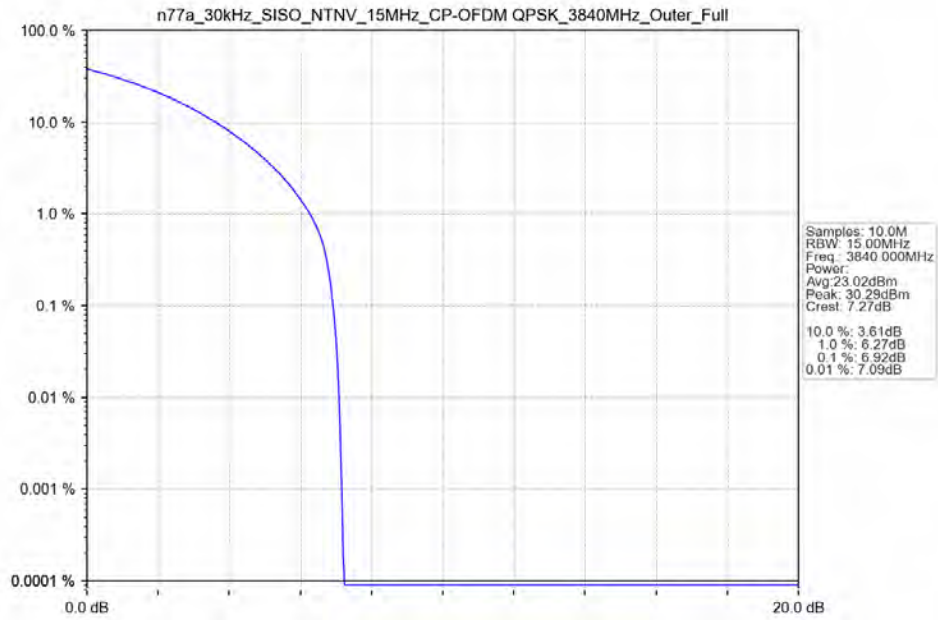
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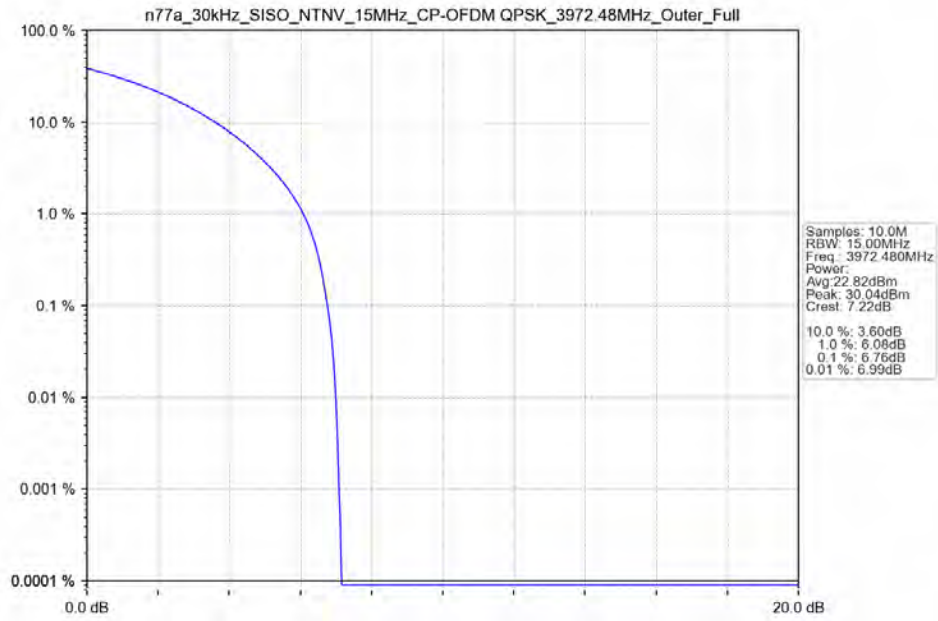
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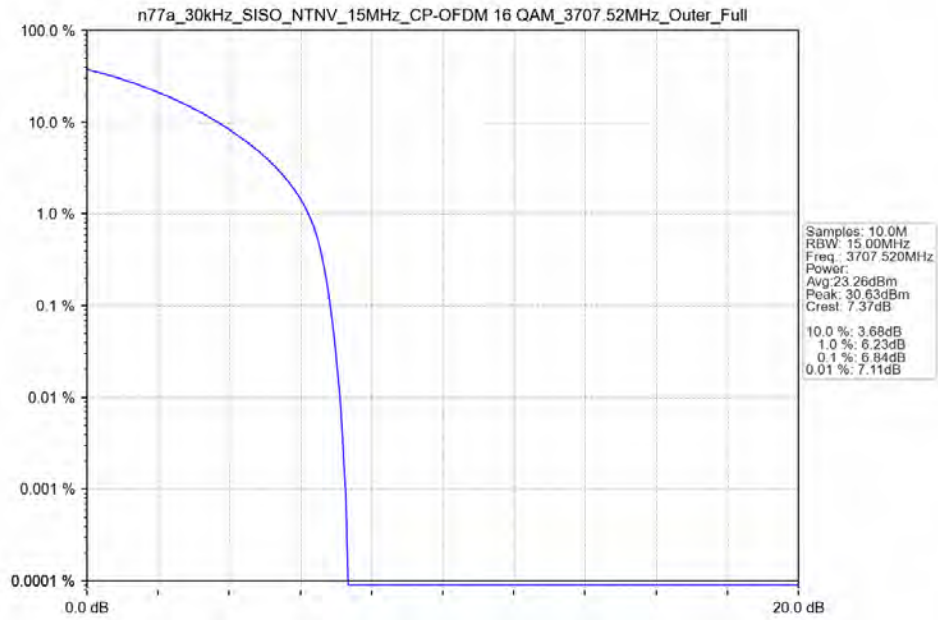
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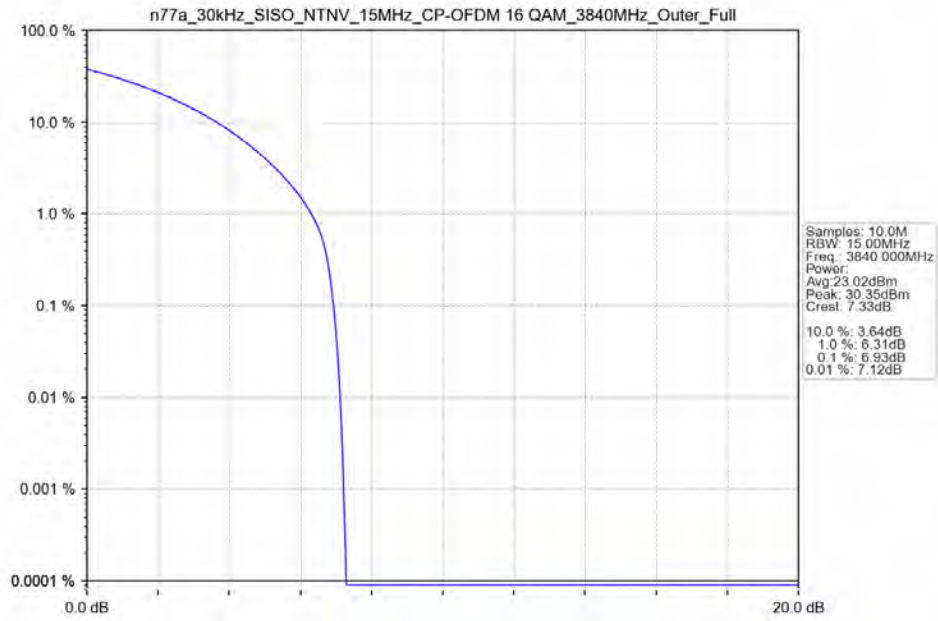
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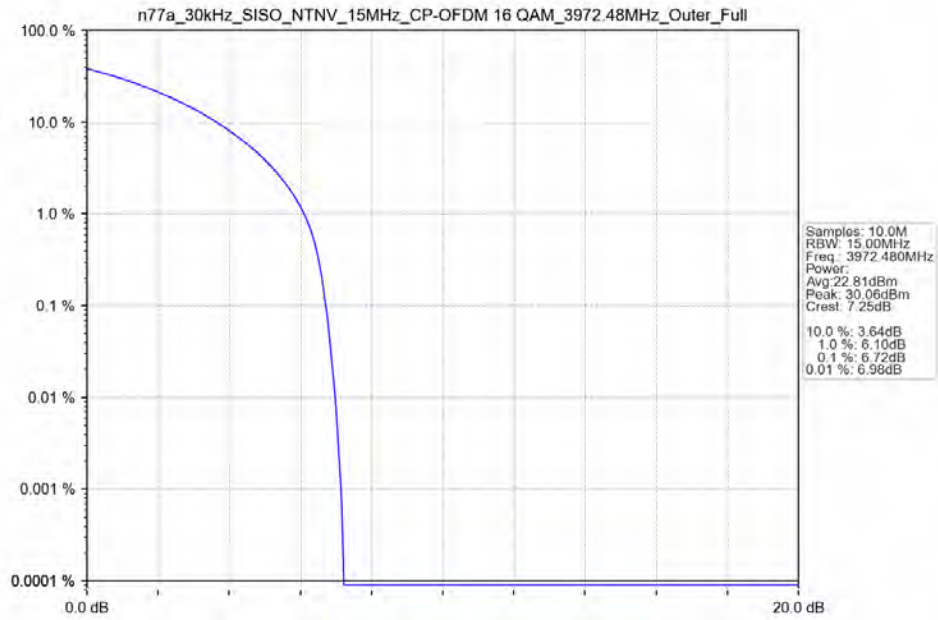
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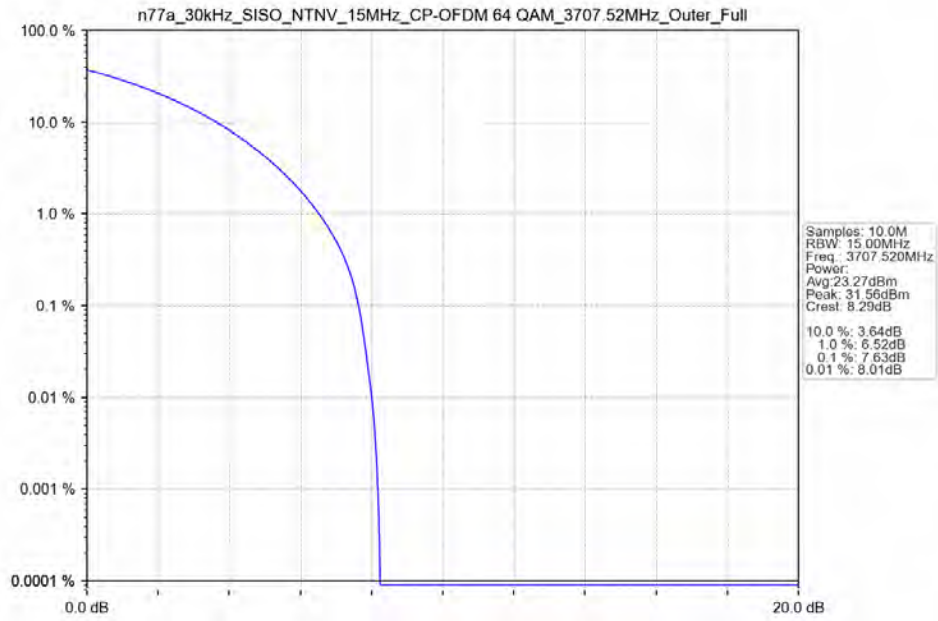
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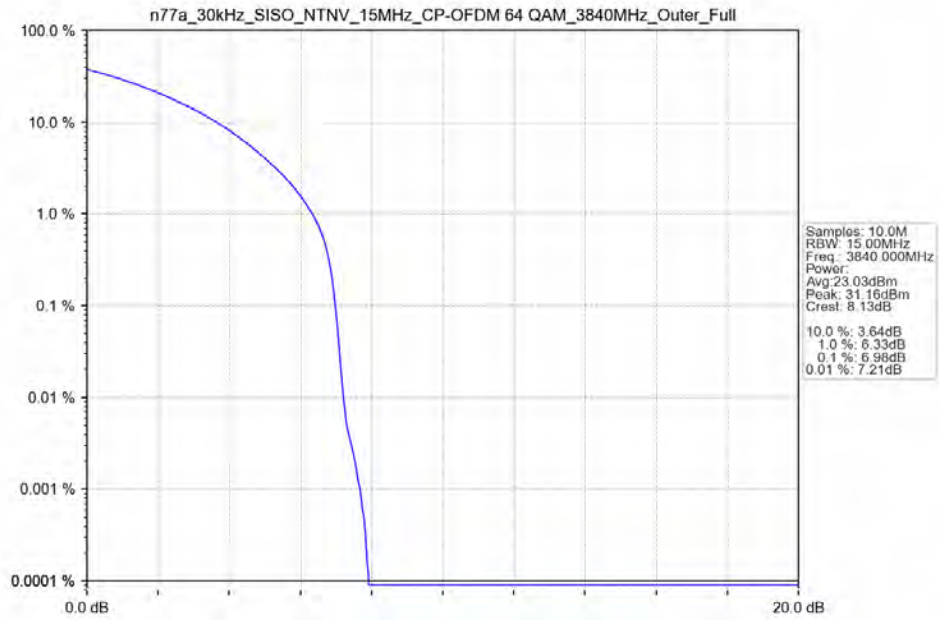
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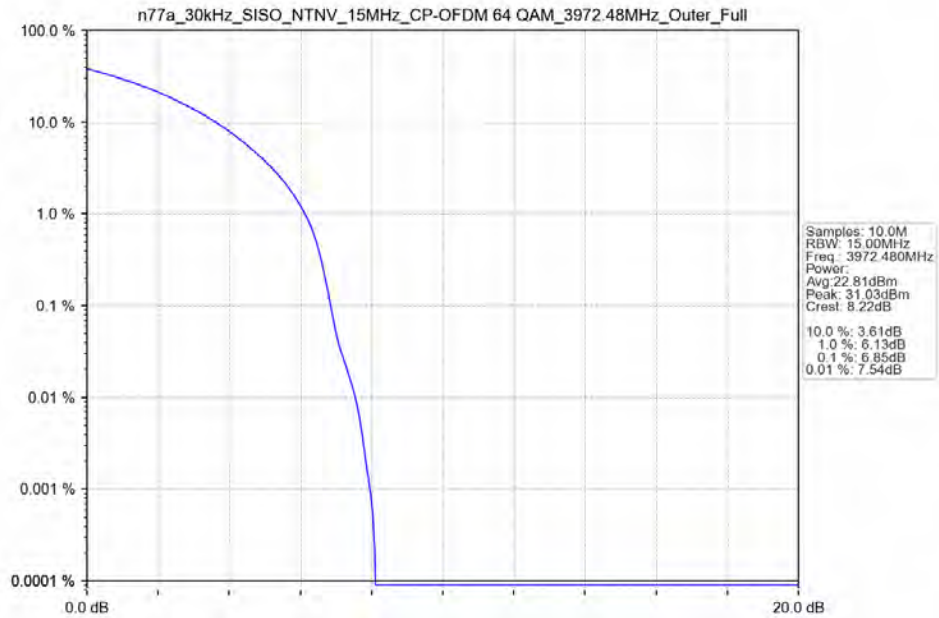
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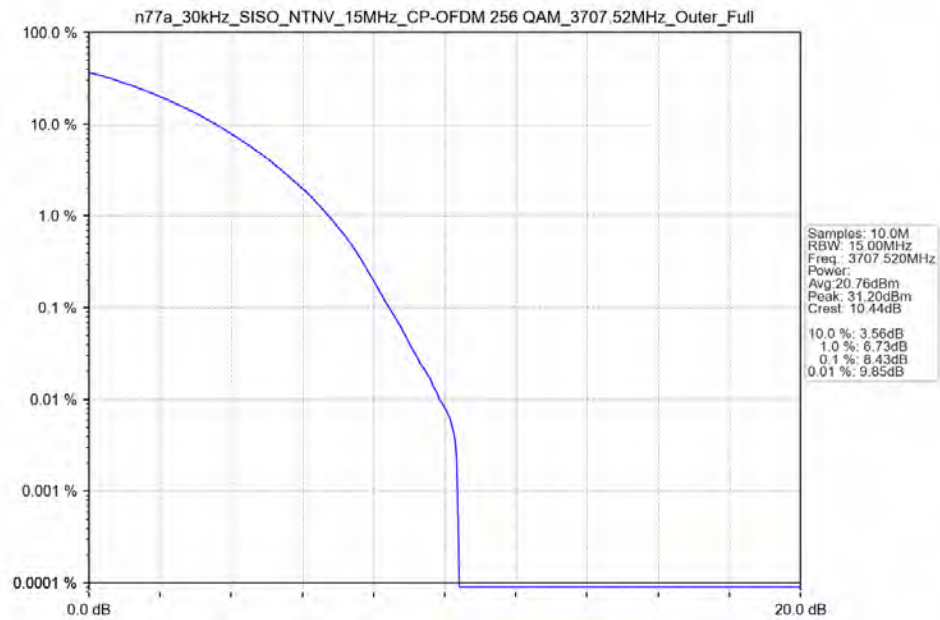
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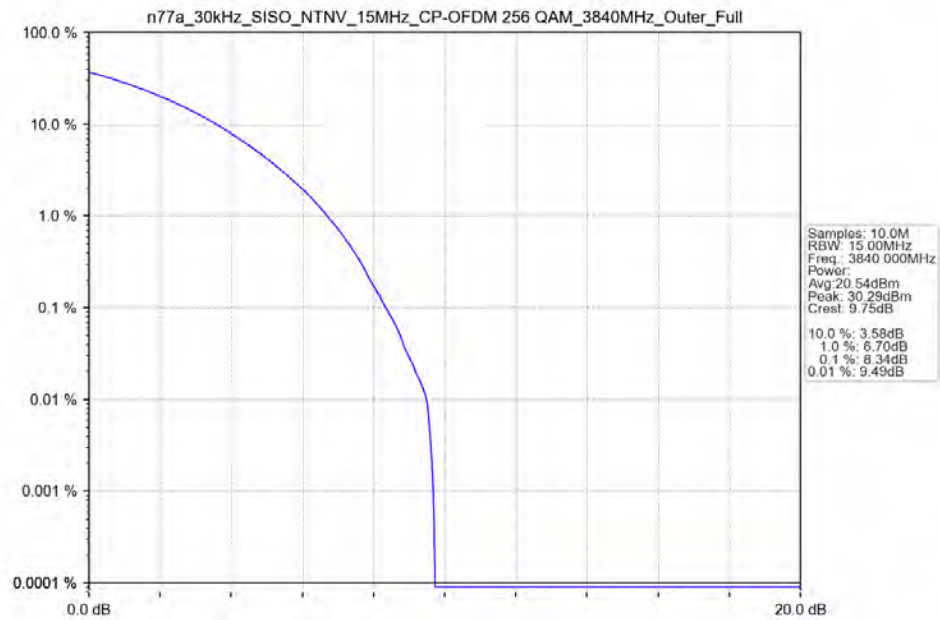
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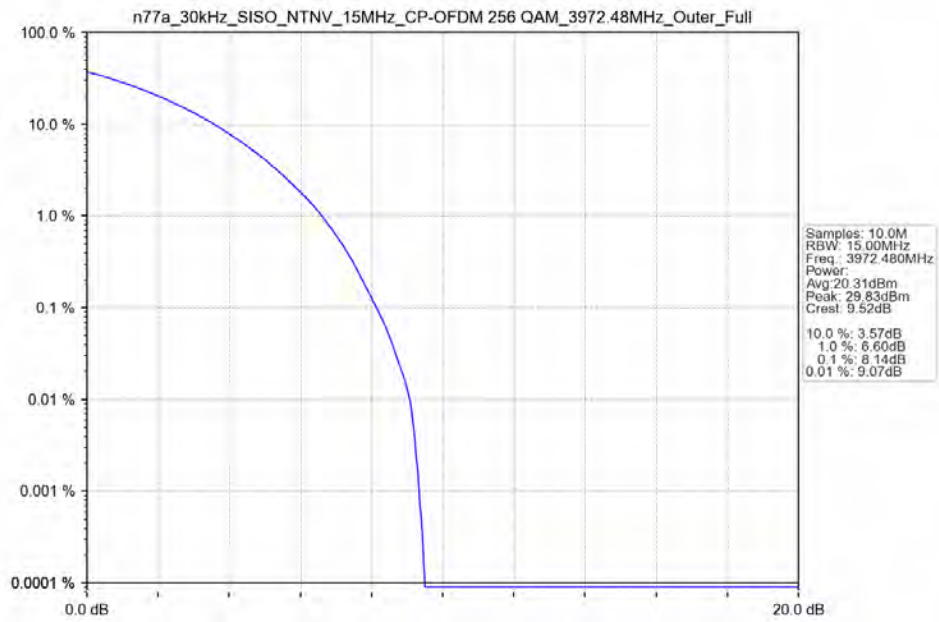
n77a\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_256\_QAM\_3707.52MHz\_Outer\_Full\_Ant13



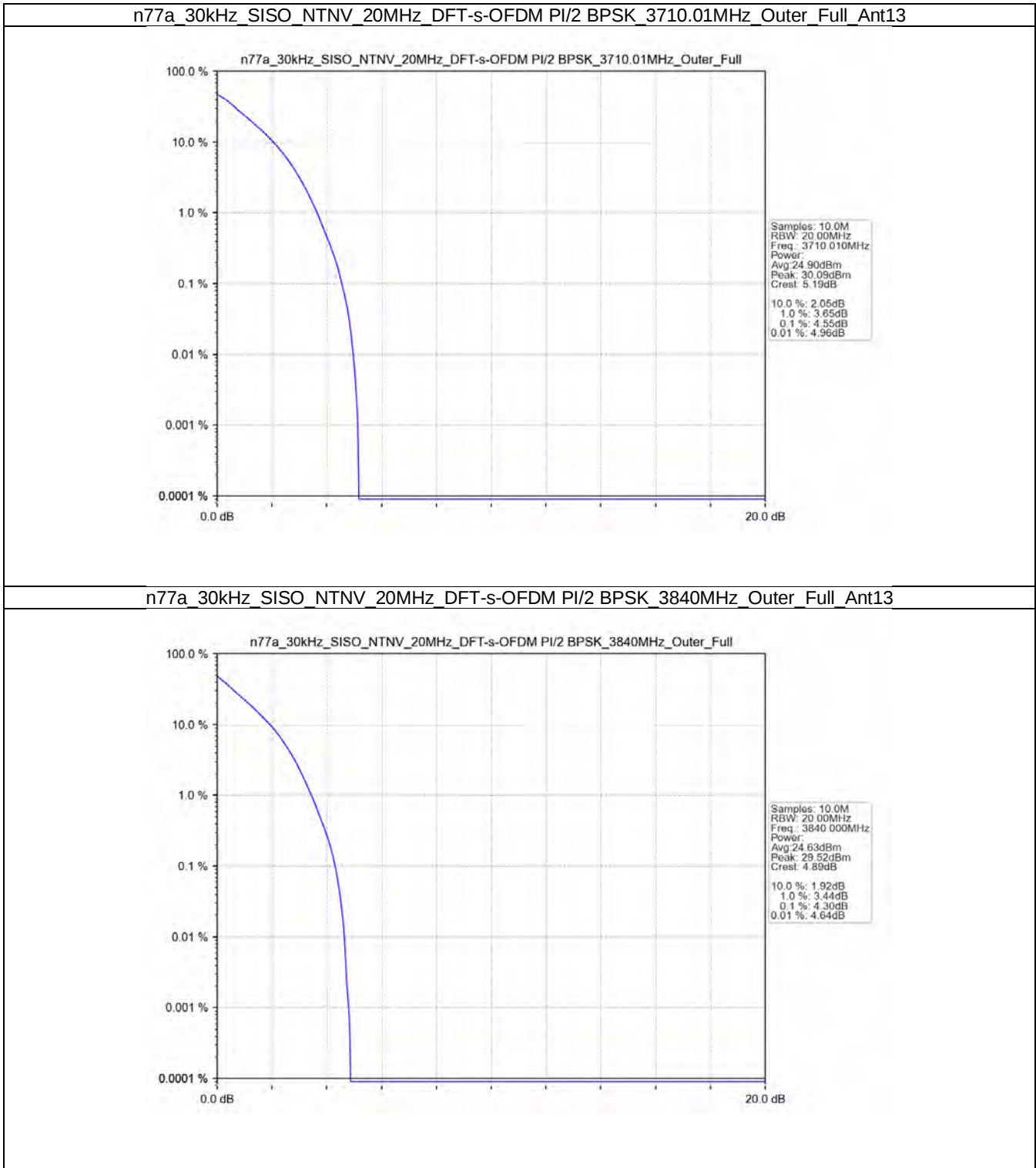
n77a\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_256\_QAM\_3840MHz\_Outer\_Full\_Ant13



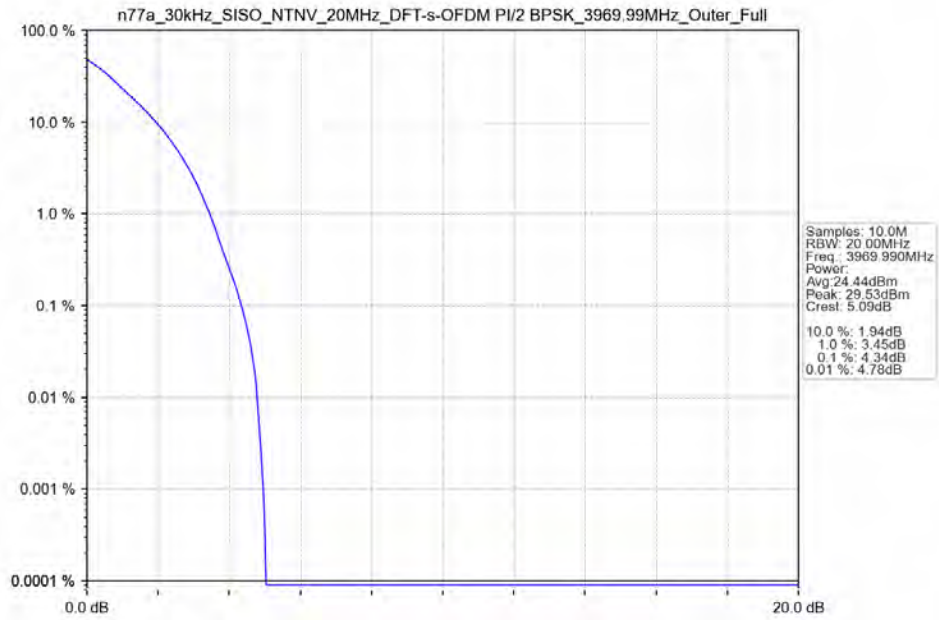
n77a\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_256\_QAM\_3972.48MHz\_Outer\_Full\_Ant13



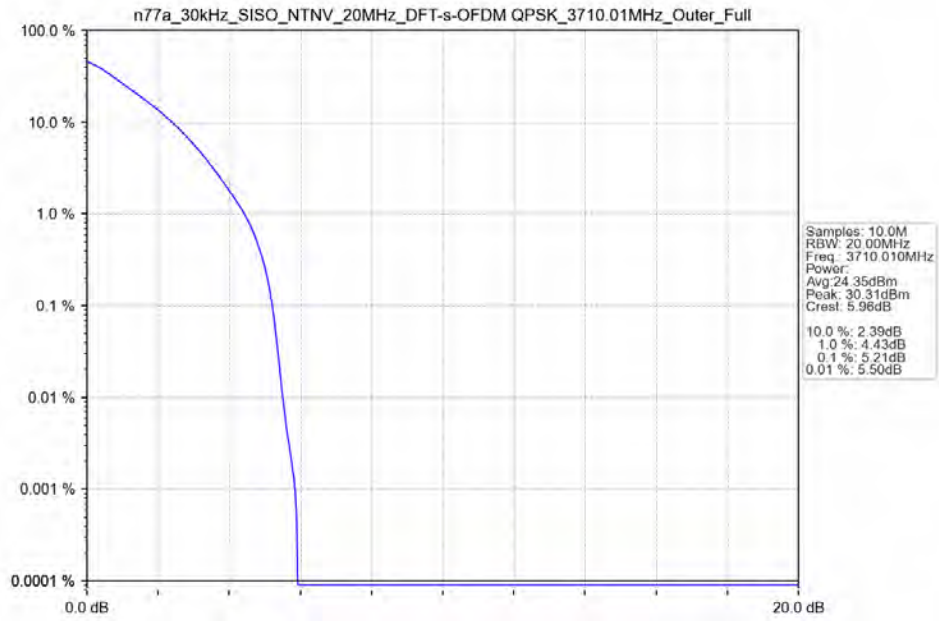
4.2.3 30k\_SISO\_20MHz\_NTNV



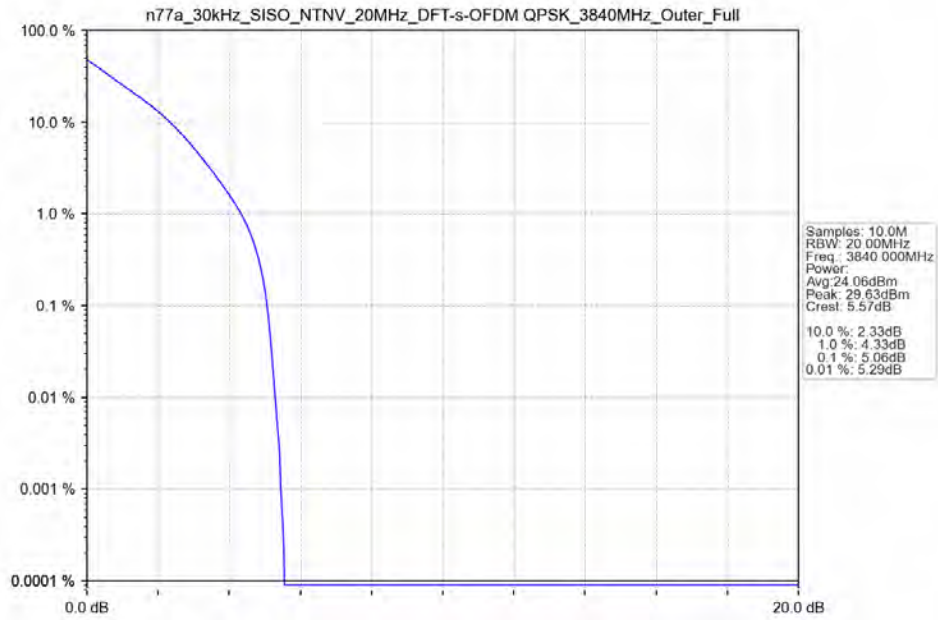
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM PI/2 BPSK 3969.99MHz Outer Full Ant13



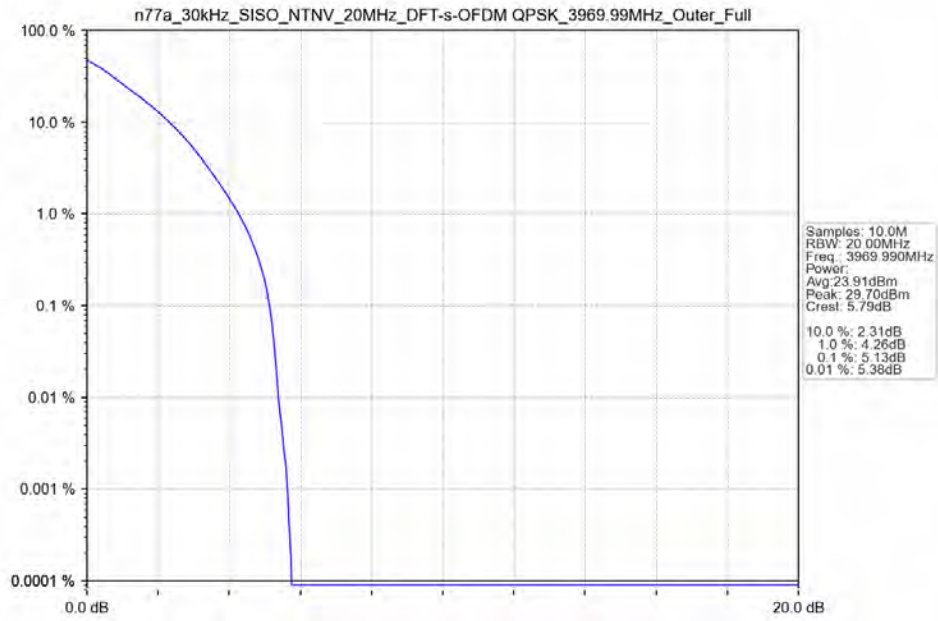
n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK 3710.01MHz Outer Full Ant13



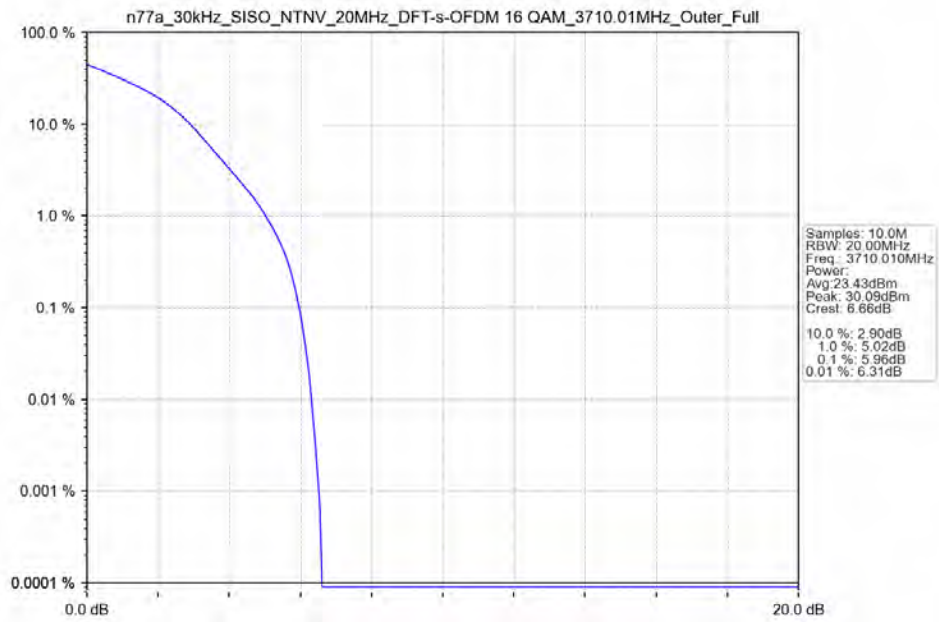
n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_QPSK\_3840MHz\_Outer\_Full\_Ant13



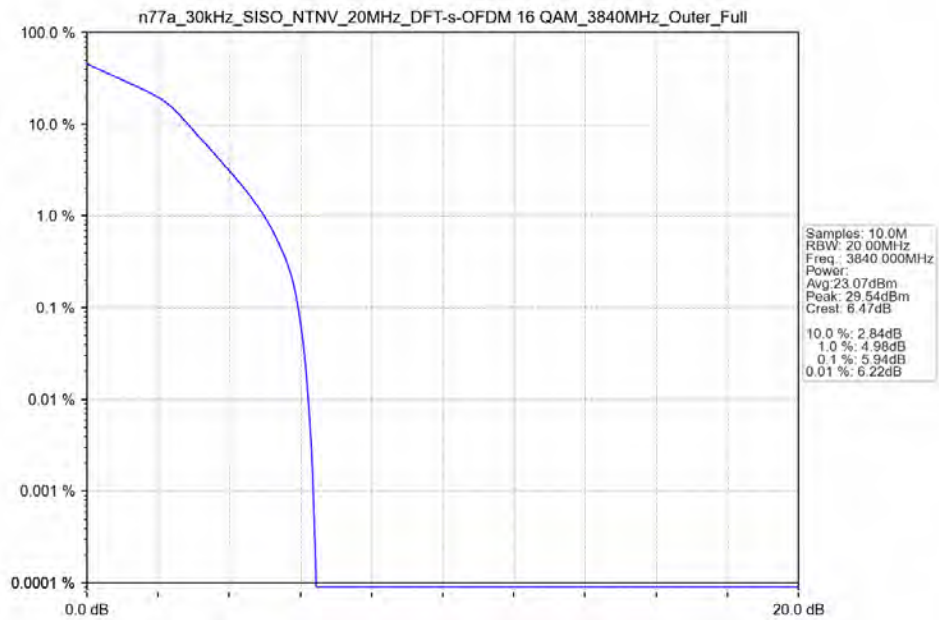
n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_QPSK\_3969.99MHz\_Outer\_Full\_Ant13



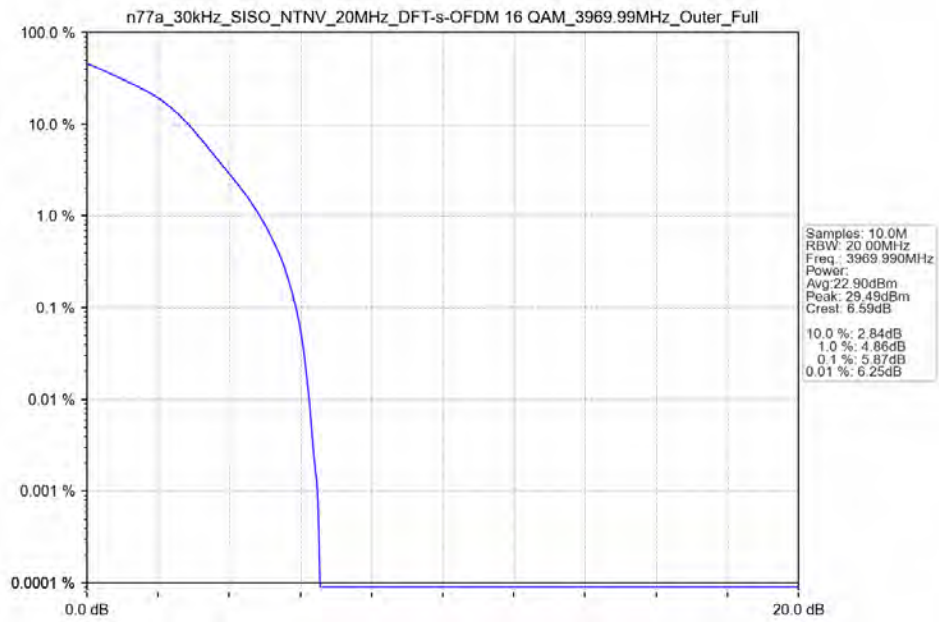
n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_16\_QAM\_3710.01MHz\_Outer\_Full\_Ant13



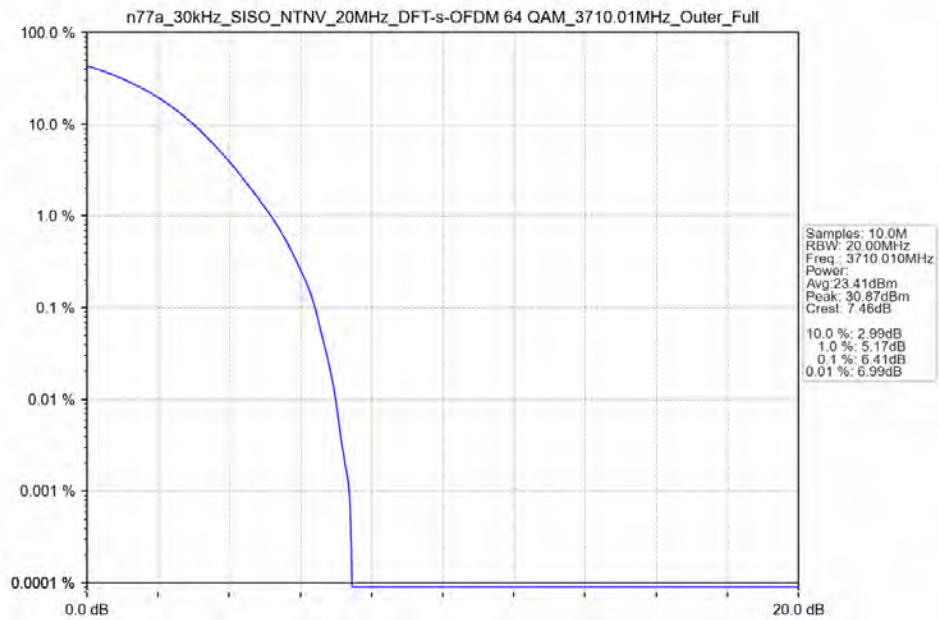
n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_16\_QAM\_3840MHz\_Outer\_Full\_Ant13



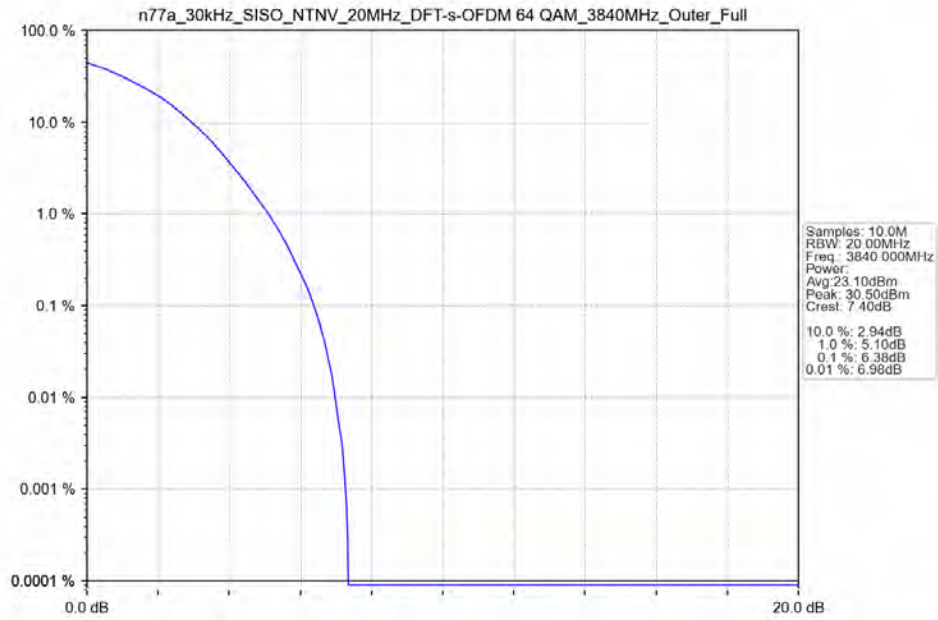
# n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_16\_QAM\_3969.99MHz\_Outer\_Full\_Ant13



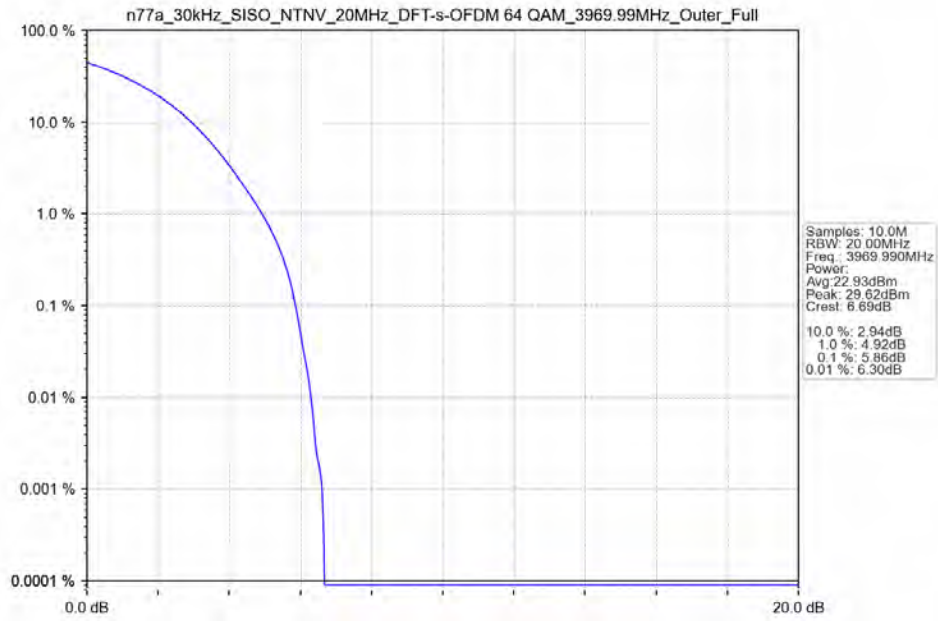
# n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_64\_QAM\_3710.01MHz\_Outer\_Full\_Ant13



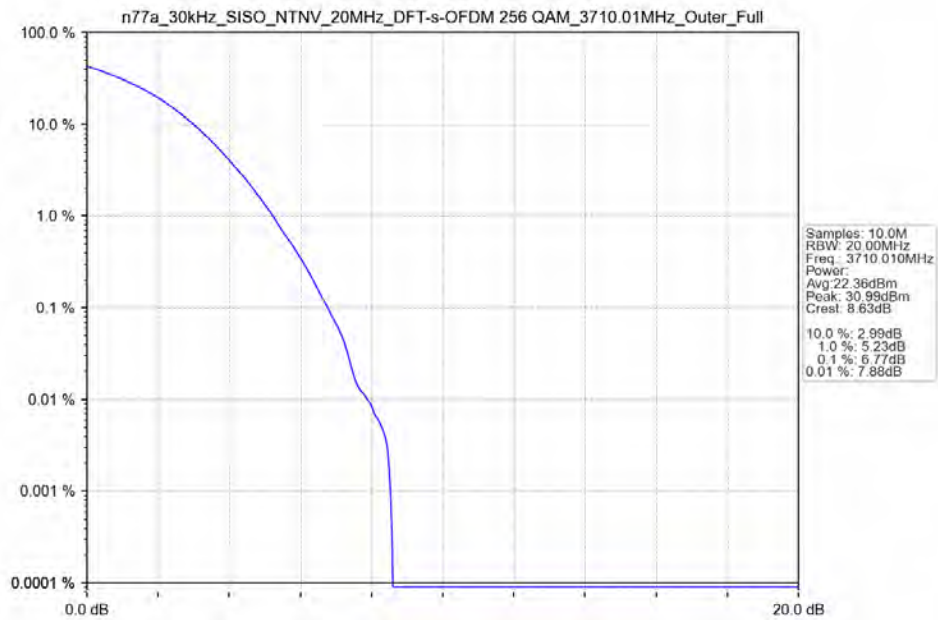
n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_64\_QAM\_3840MHz\_Outer\_Full\_Ant13



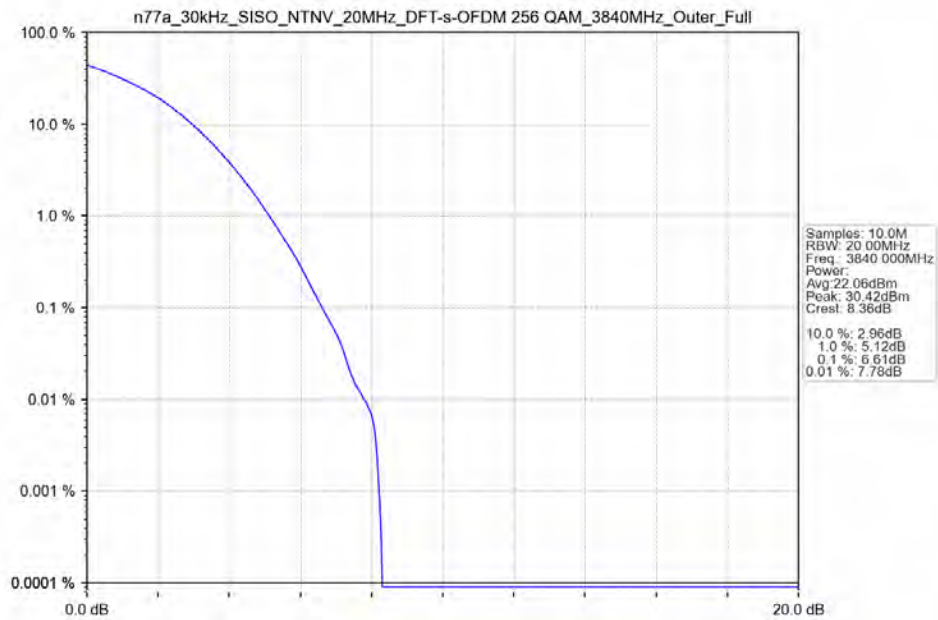
n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_64\_QAM\_3969.99MHz\_Outer\_Full\_Ant13



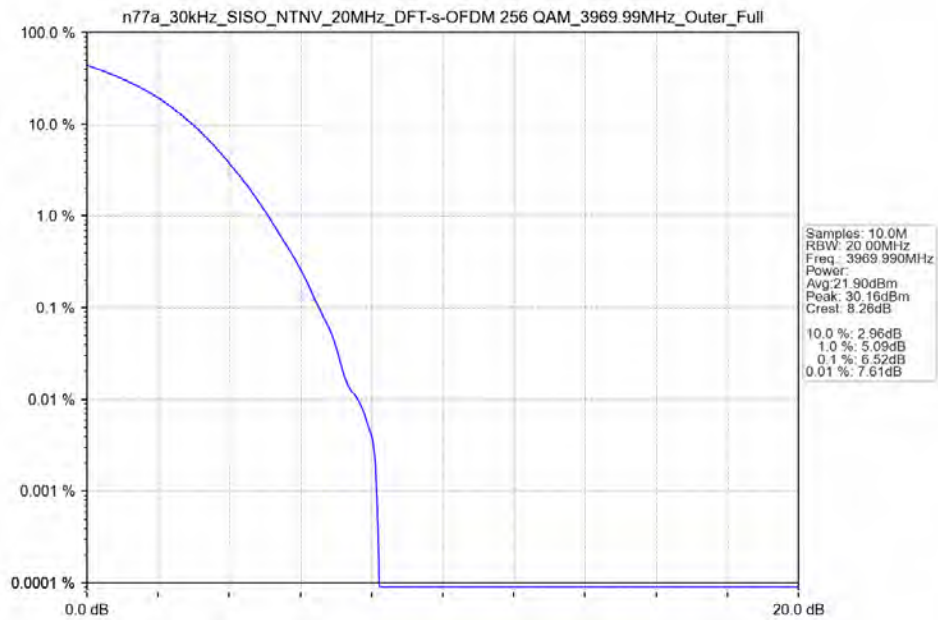
n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_256\_QAM\_3710.01MHz\_Outer\_Full\_Ant13



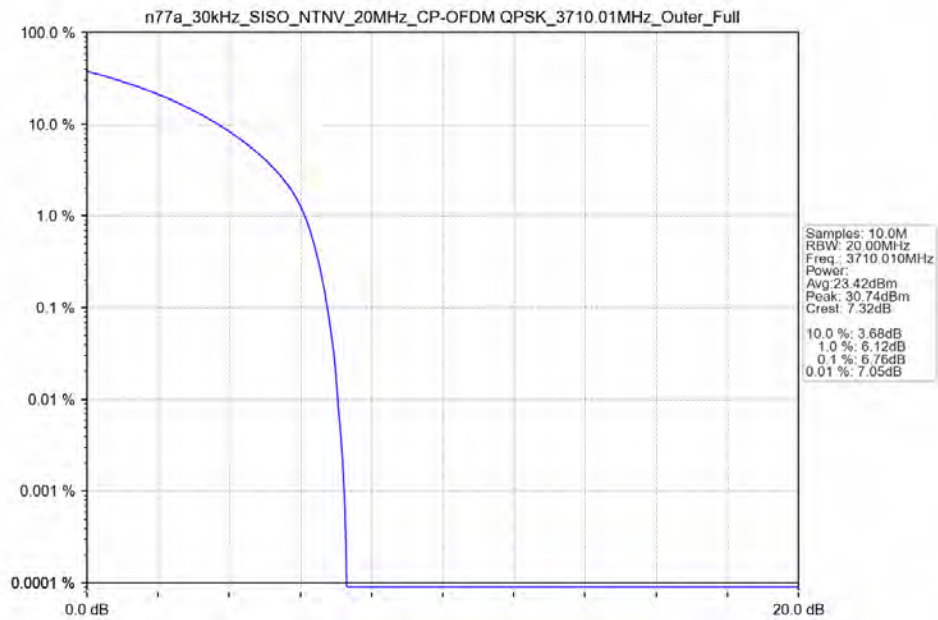
n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_256\_QAM\_3840MHz\_Outer\_Full\_Ant13



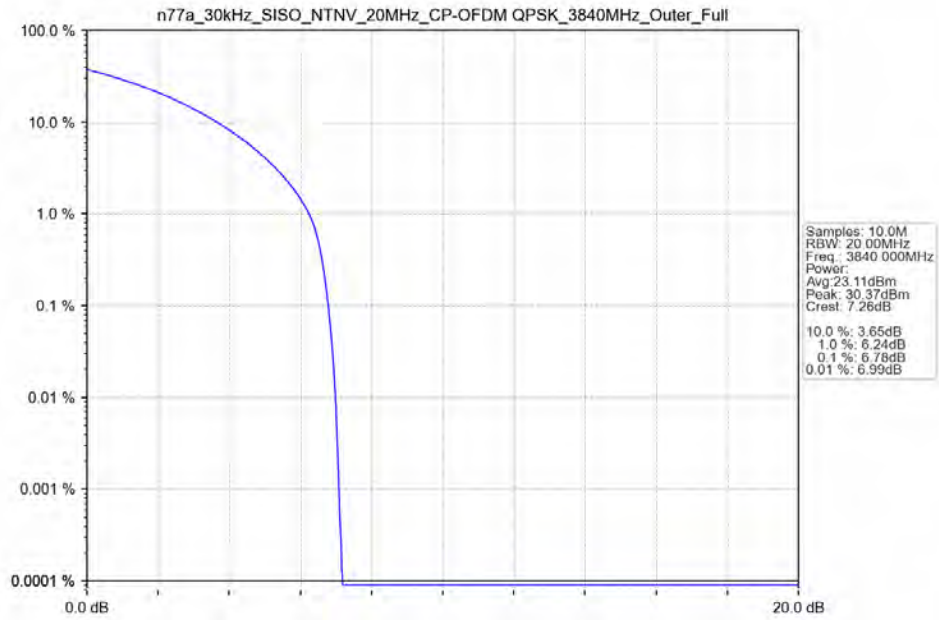
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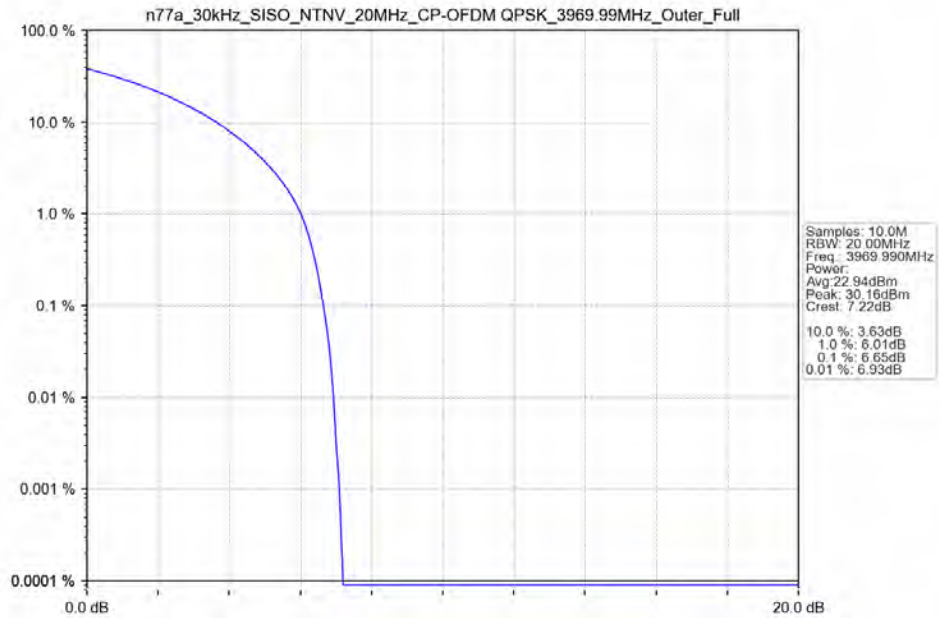
n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_QPSK\_3710.01MHz\_Outer\_Full\_Ant13



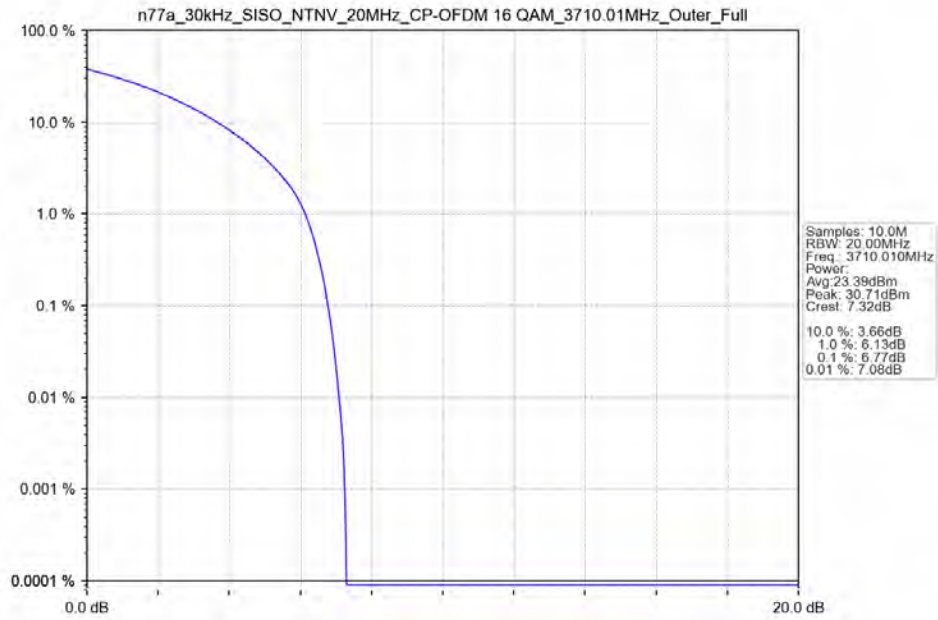
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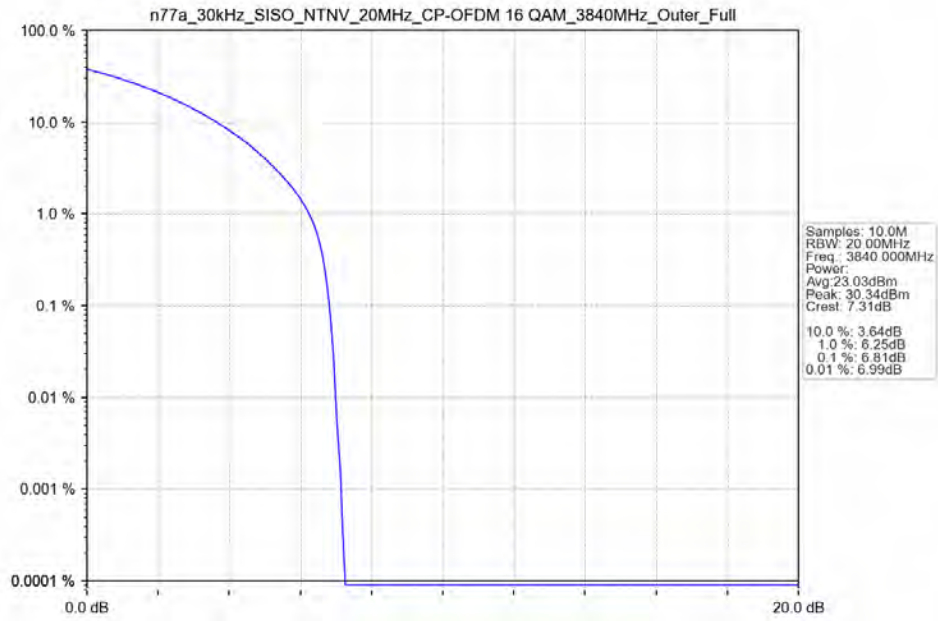
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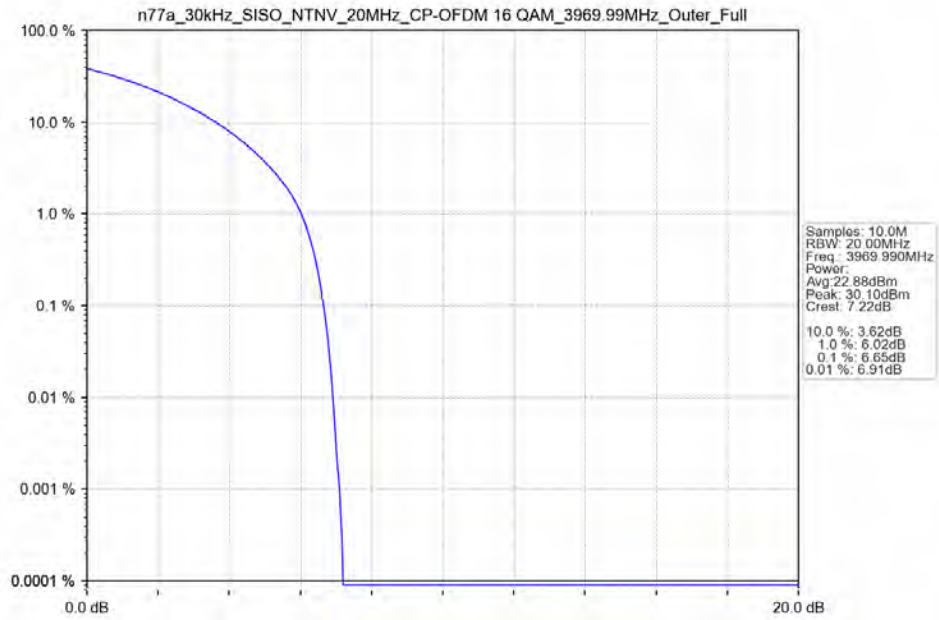
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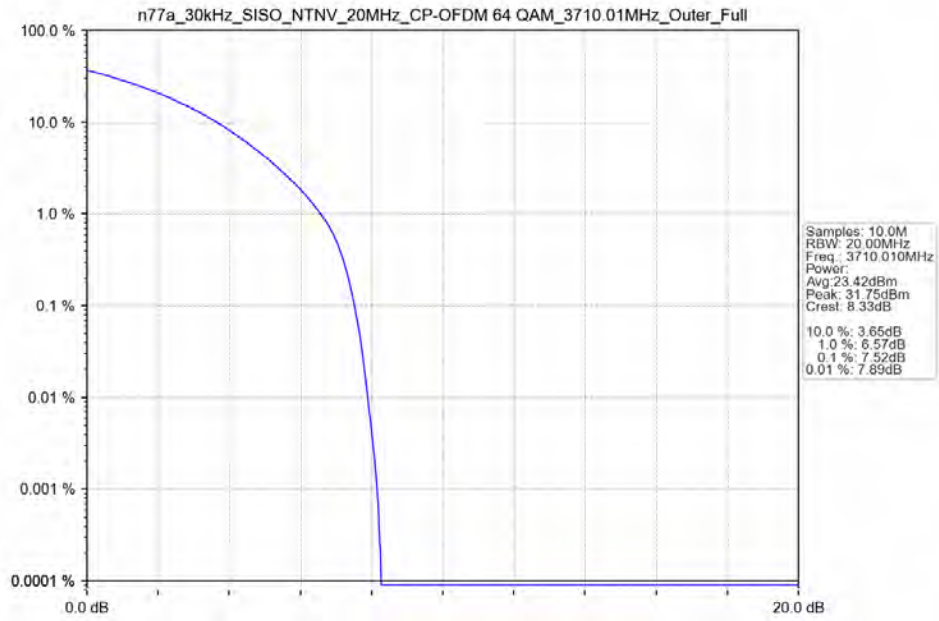
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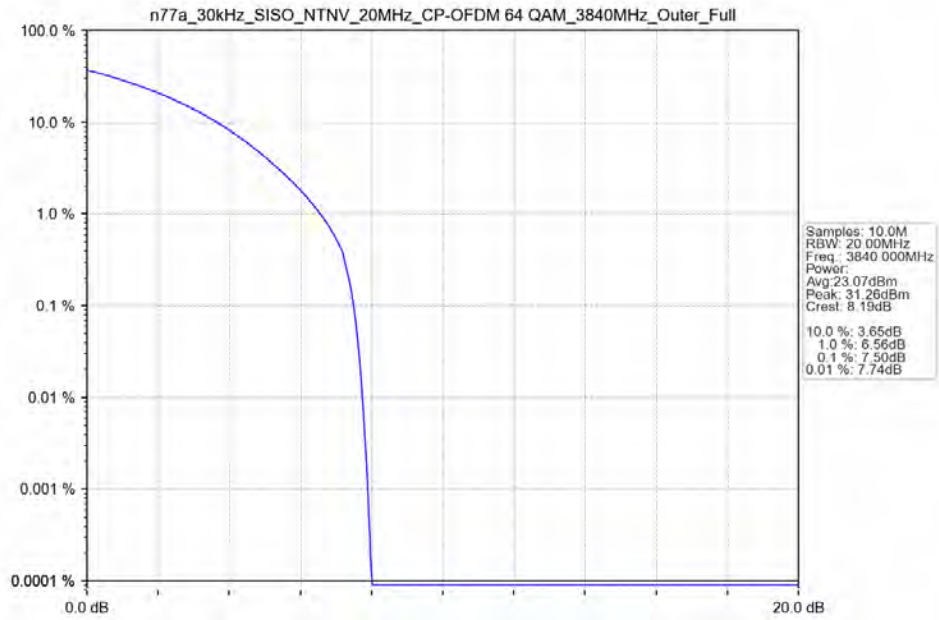
n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM 3969.99MHz\_Outer\_Full\_Ant13



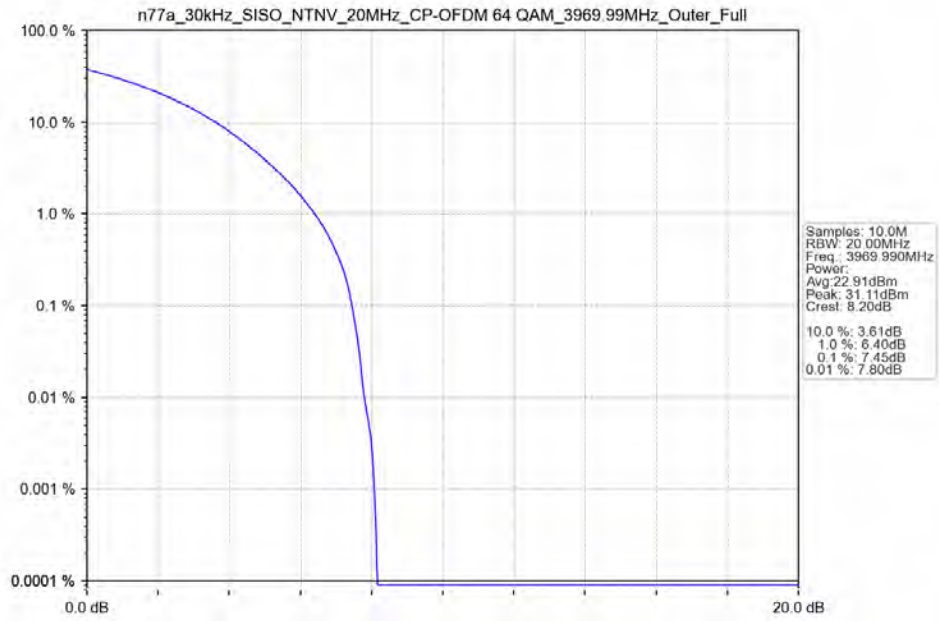
n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM 3710.01MHz\_Outer\_Full\_Ant13



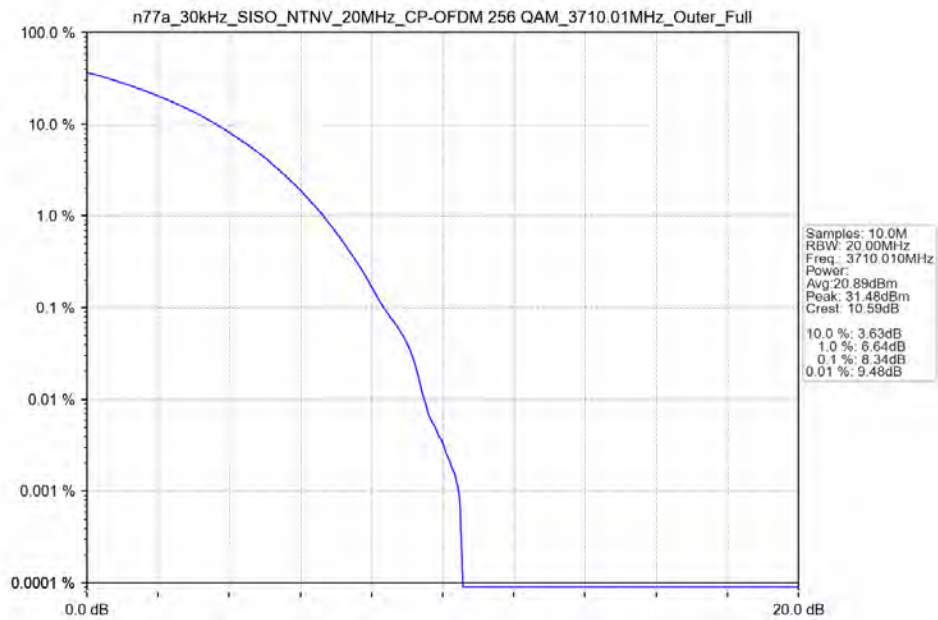
n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_64\_QAM\_3840MHz\_Outer\_Full\_Ant13



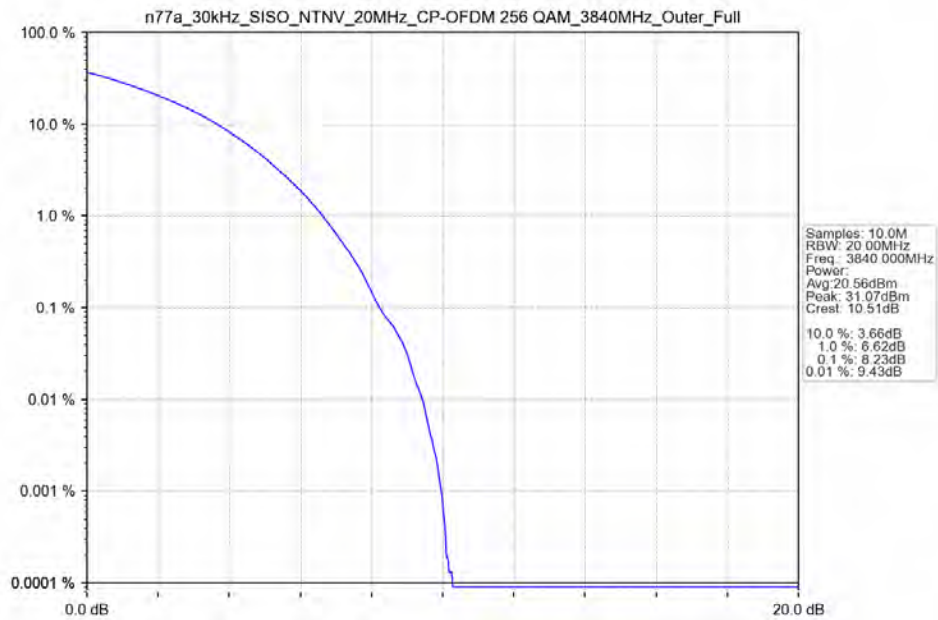
n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_64\_QAM\_3969.99MHz\_Outer\_Full\_Ant13



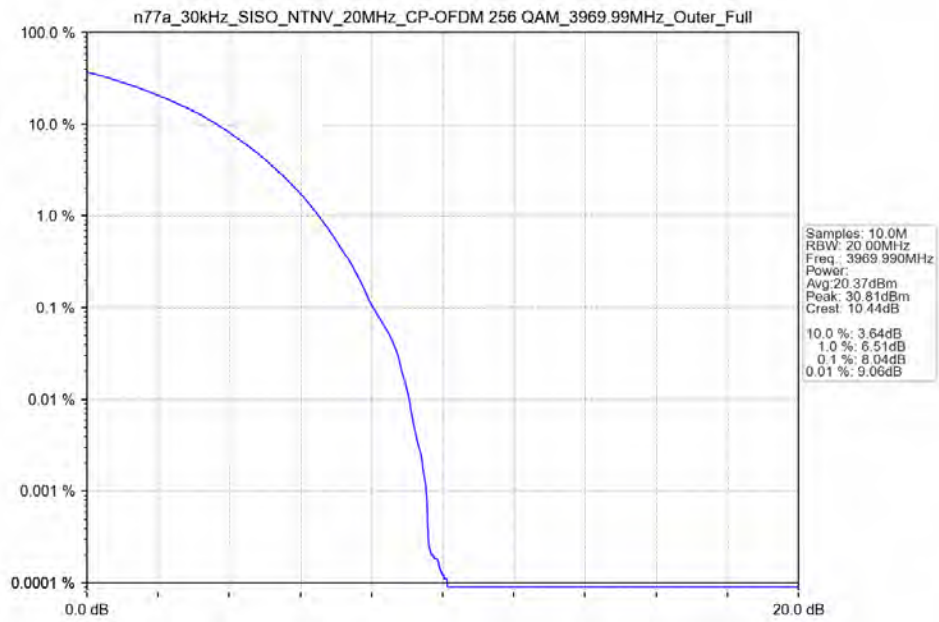
n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_256\_QAM\_3710.01MHz\_Outer\_Full\_Ant13



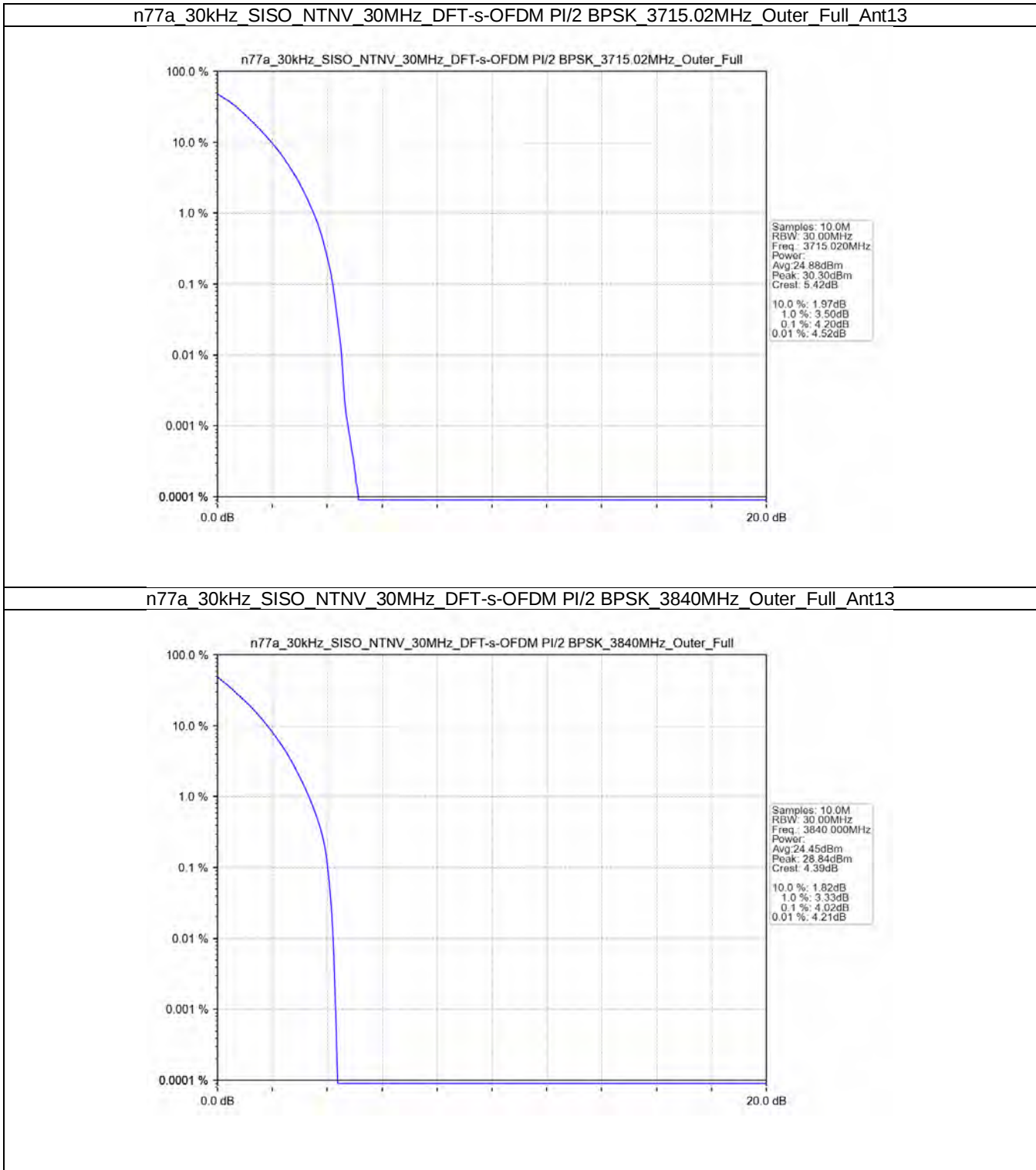
n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_256\_QAM\_3840MHz\_Outer\_Full\_Ant13



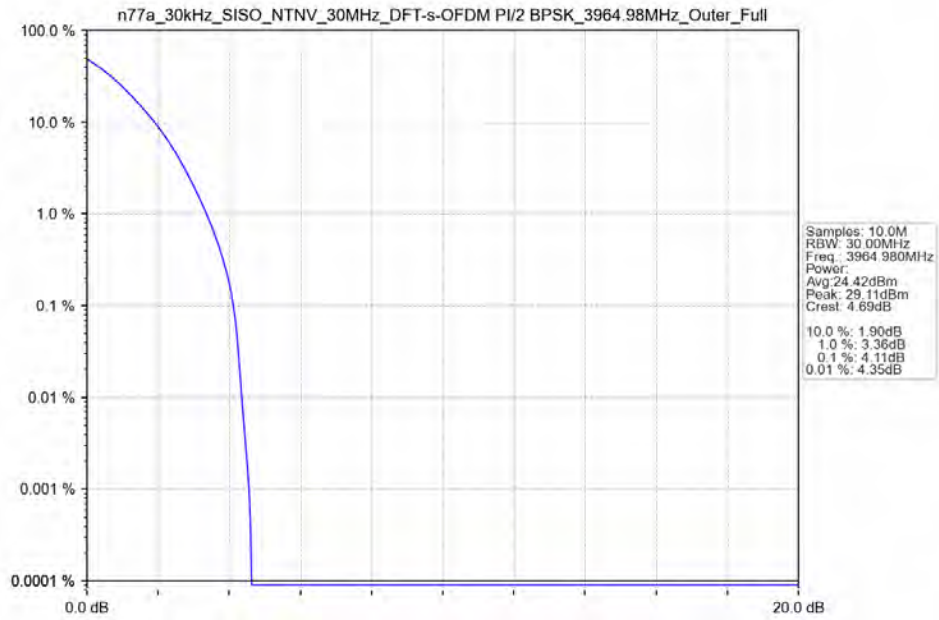
n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_256\_QAM\_3969.99MHz\_Outer\_Full\_Ant13



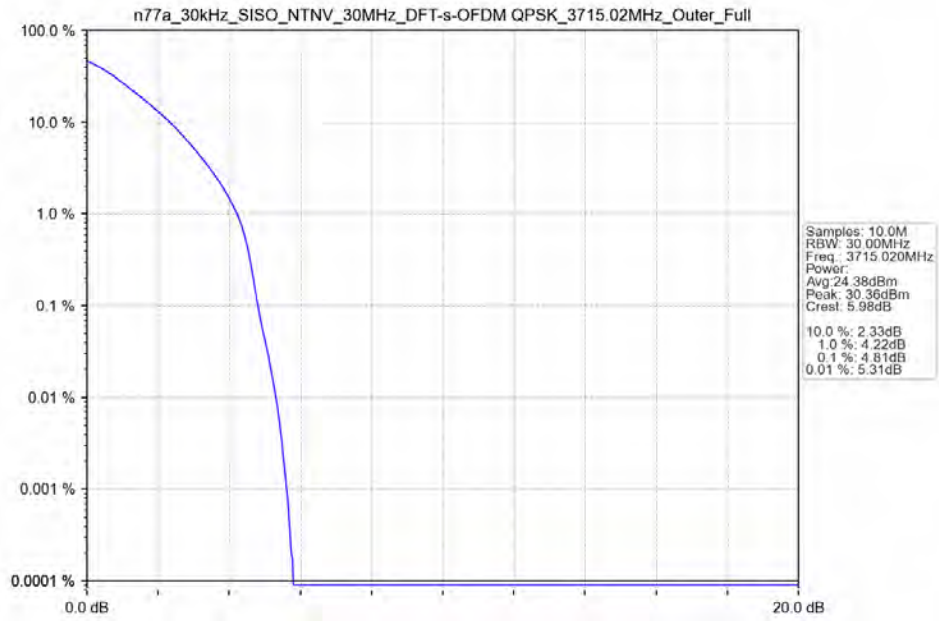
4.2.4 30k\_SISO\_30MHz\_NTNV



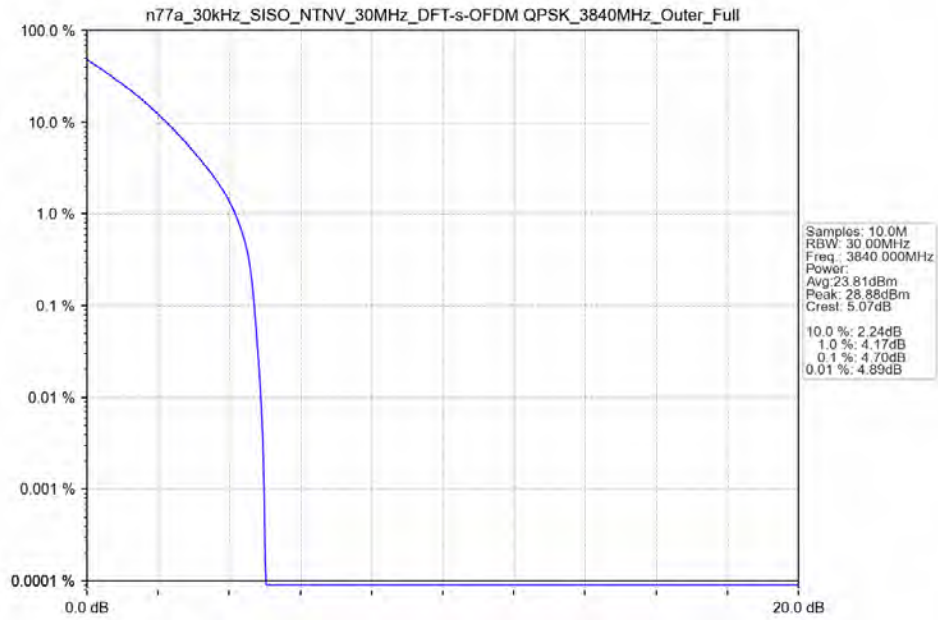
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM PI/2 BPSK 3964.98MHz Outer Full Ant13



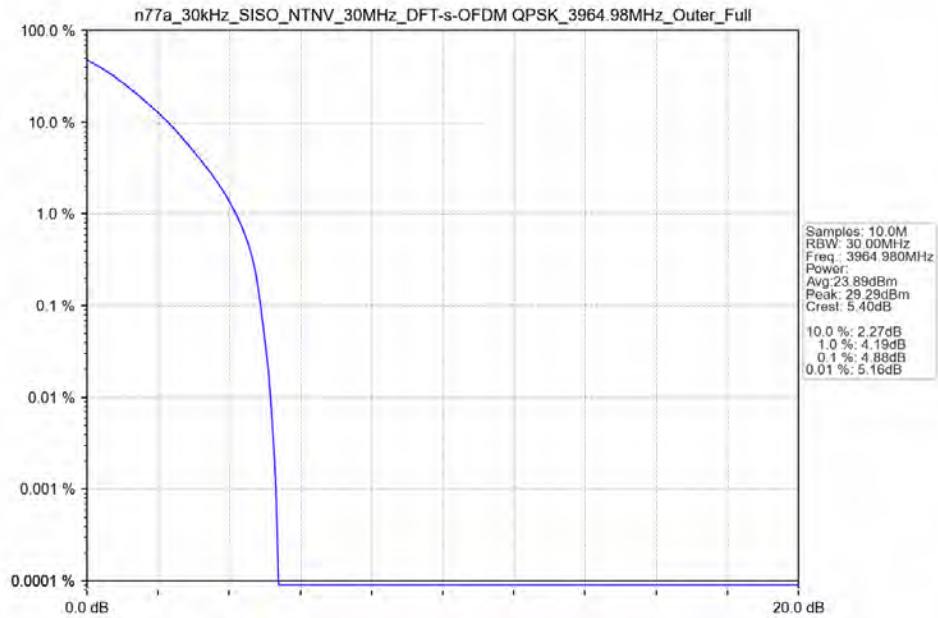
n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK 3715.02MHz\_Outer\_Full\_Ant13



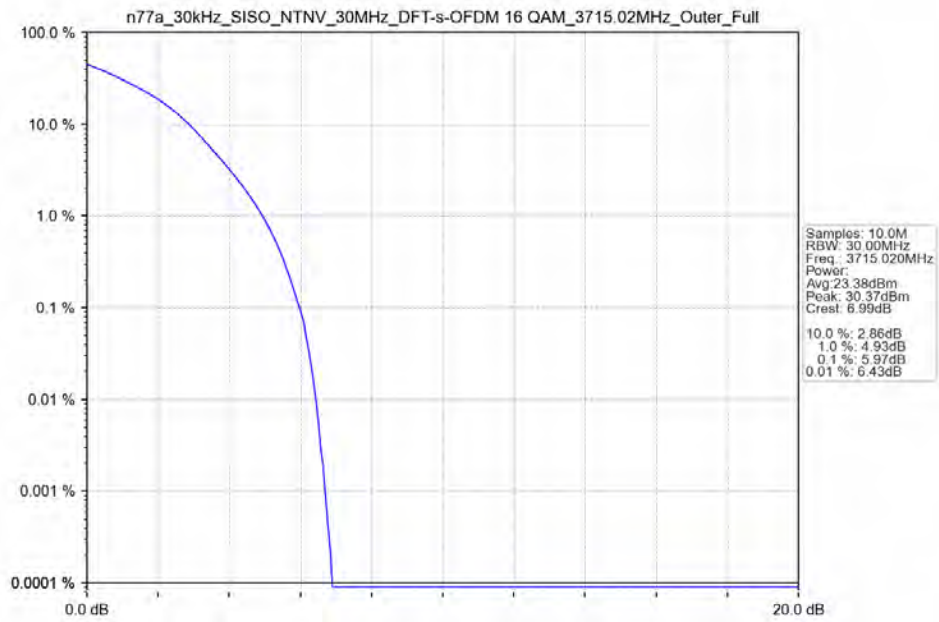
n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_QPSK\_3840MHz\_Outer\_Full\_Ant13



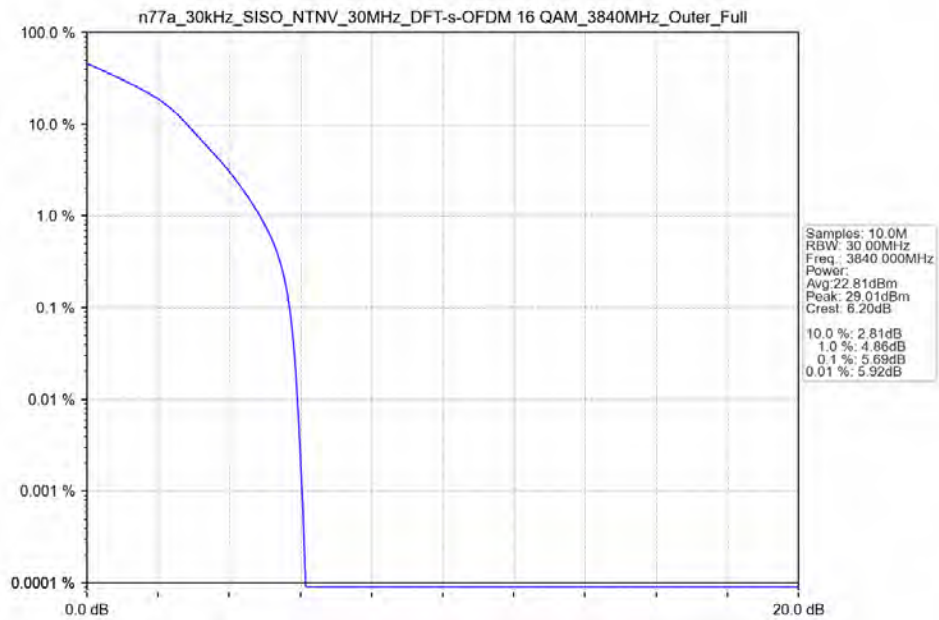
n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_QPSK\_3964.98MHz\_Outer\_Full\_Ant13



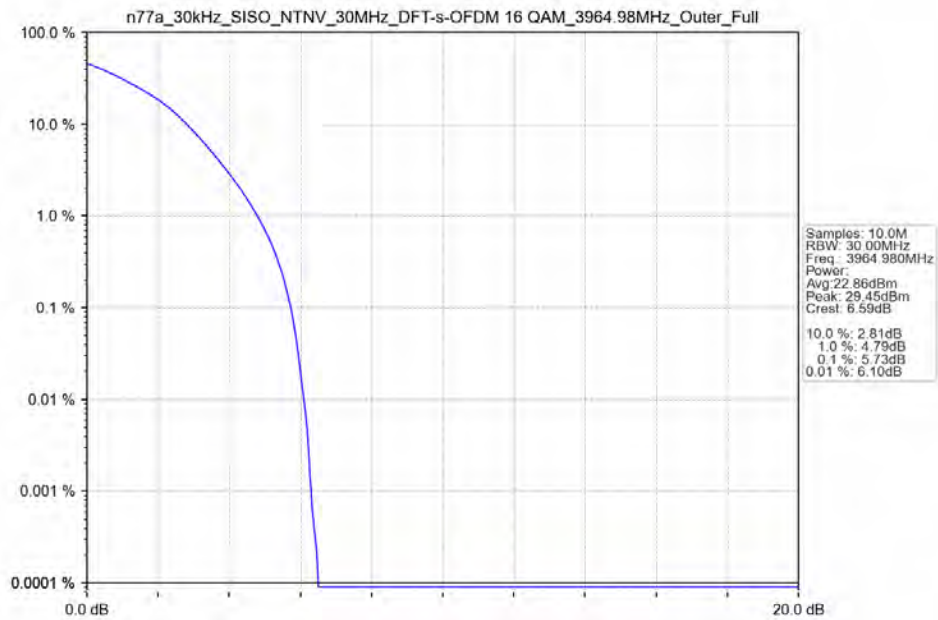
# n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_16\_QAM\_3715.02MHz\_Outer\_Full\_Ant13



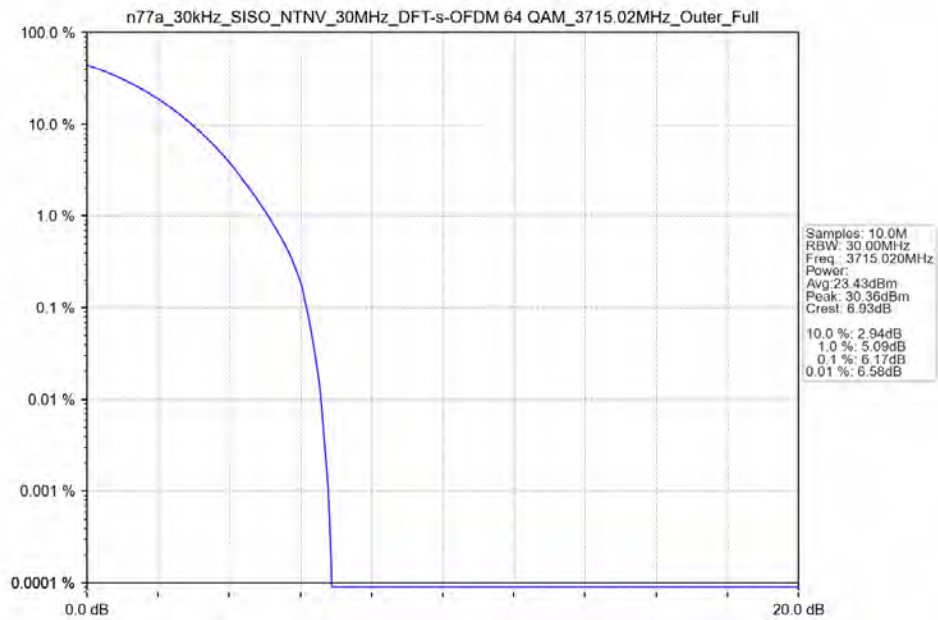
# n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_16\_QAM\_3840MHz\_Outer\_Full\_Ant13



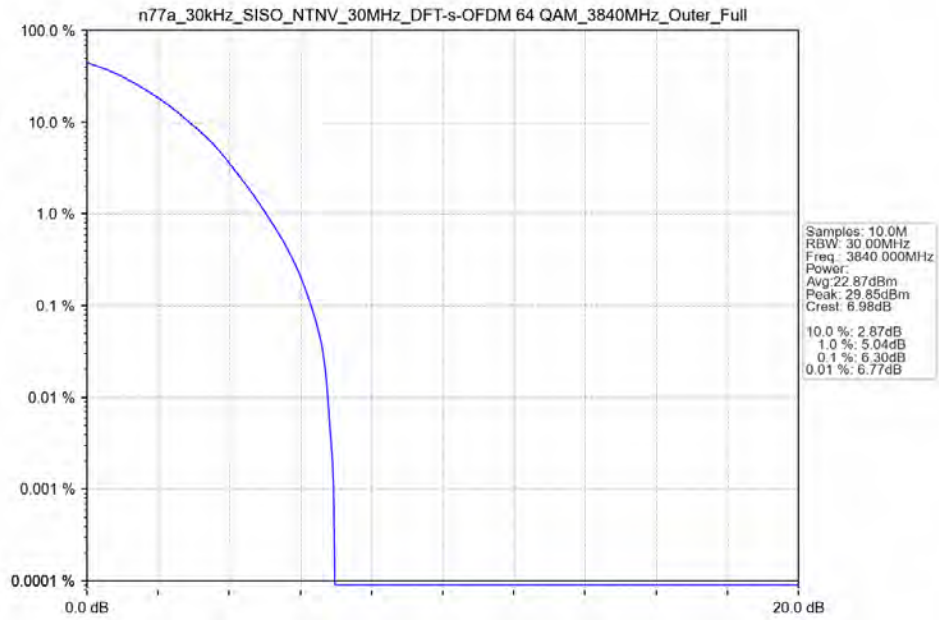
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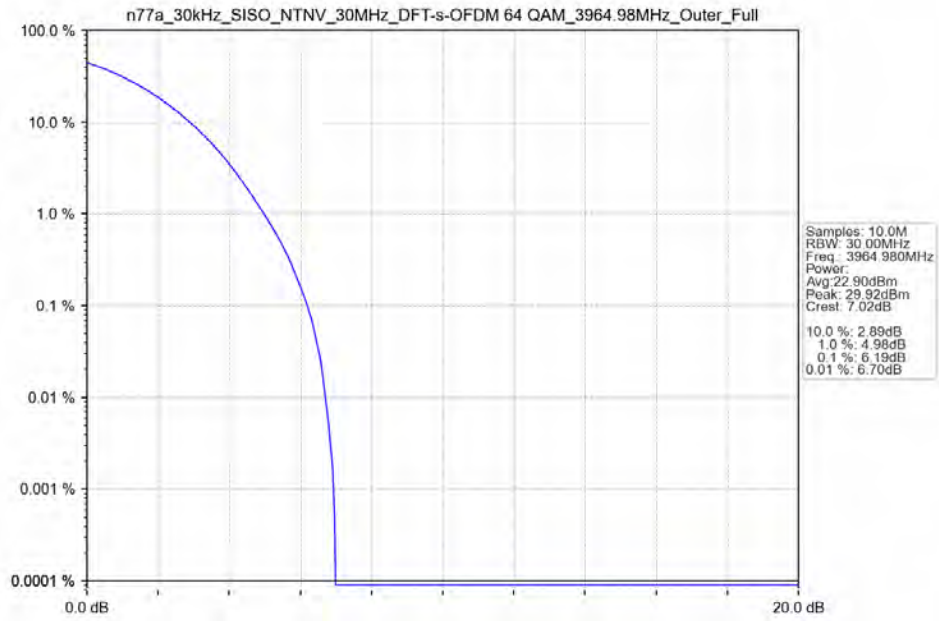
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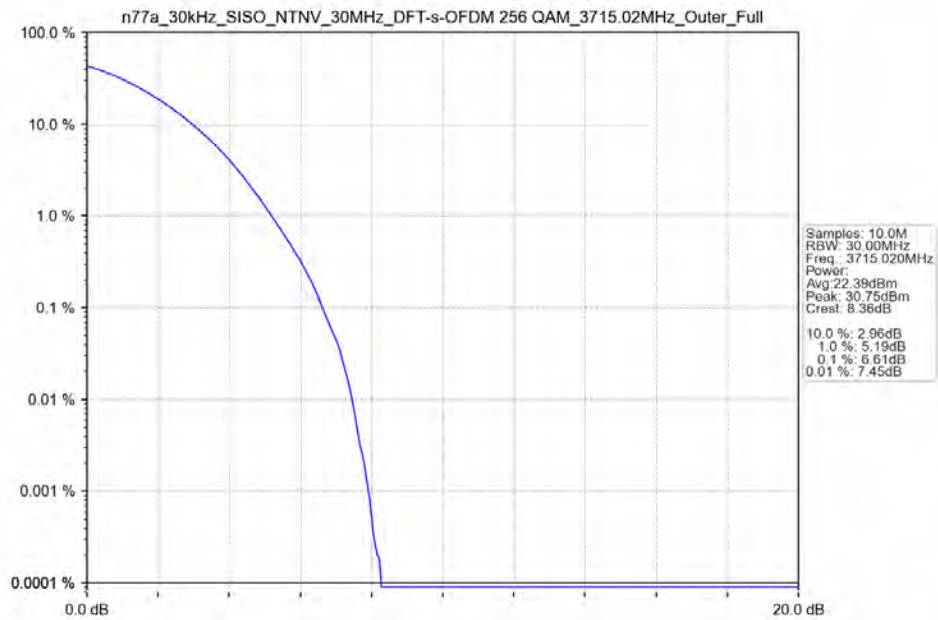
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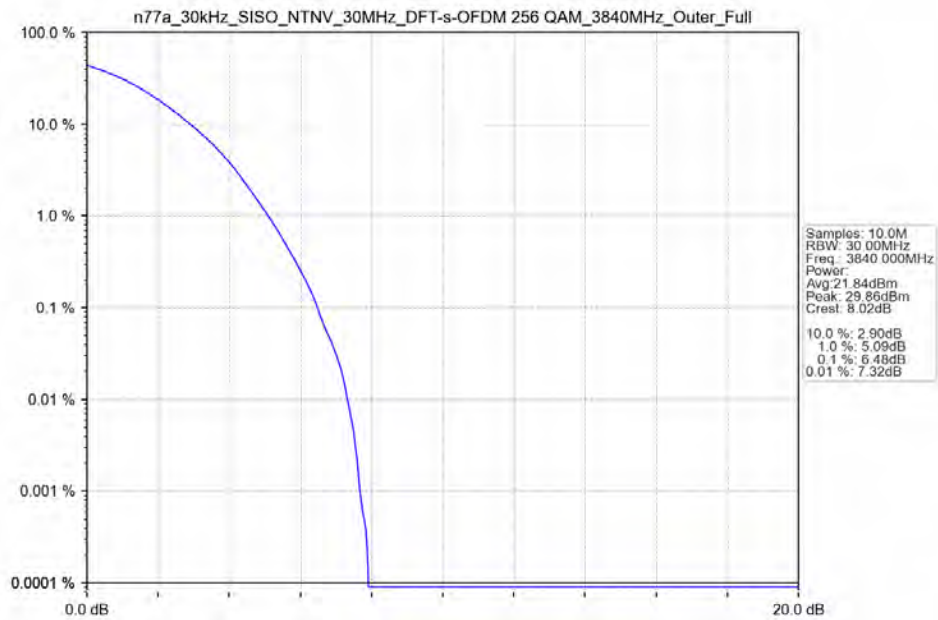
n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_64\_QAM\_3964.98MHz\_Outer\_Full\_Ant13



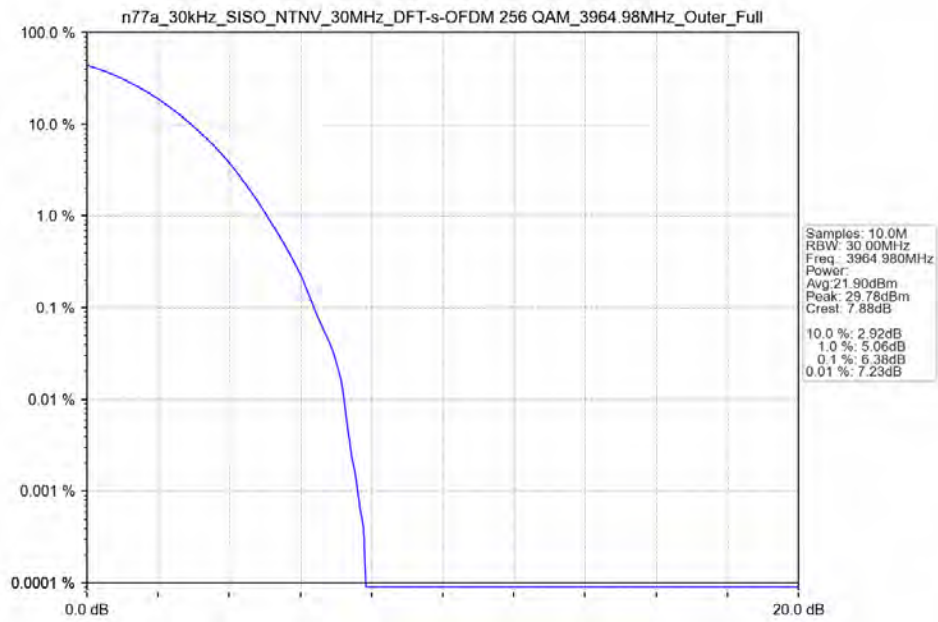
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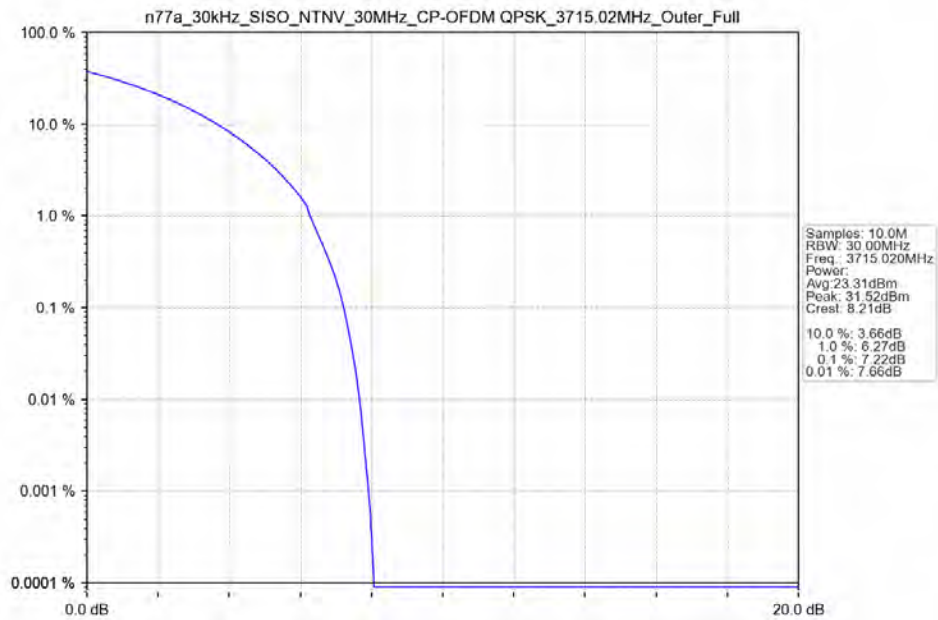
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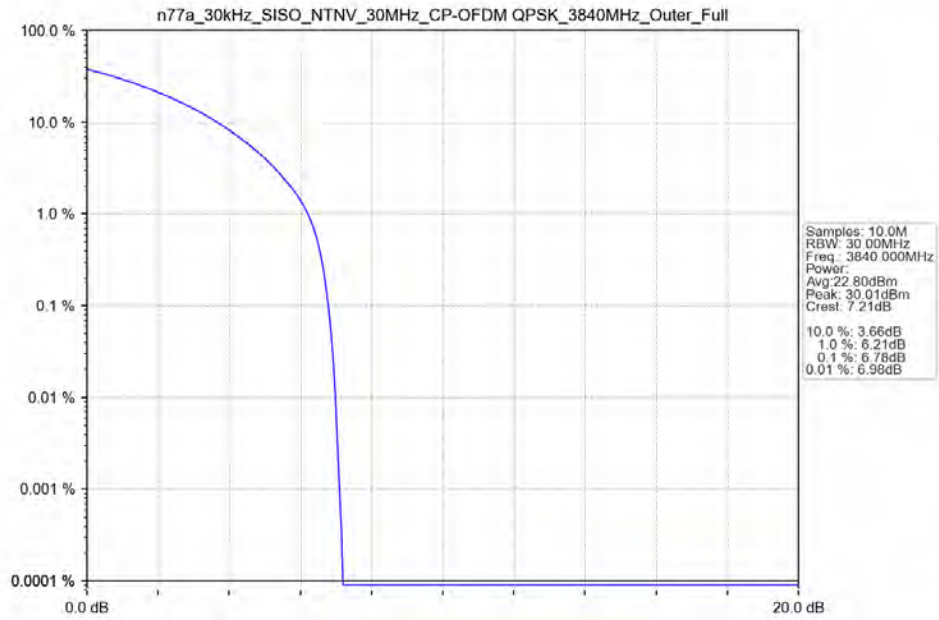
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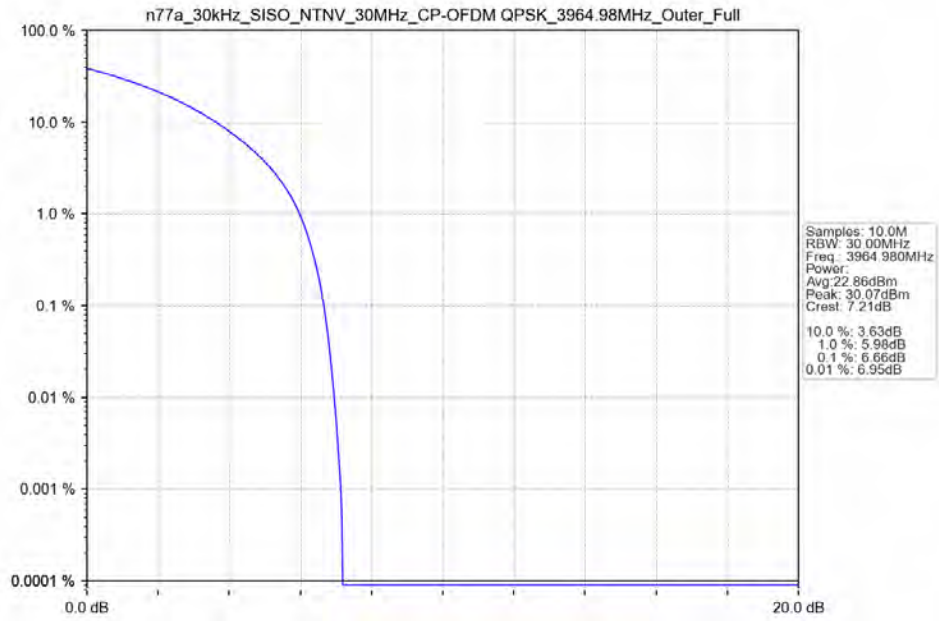
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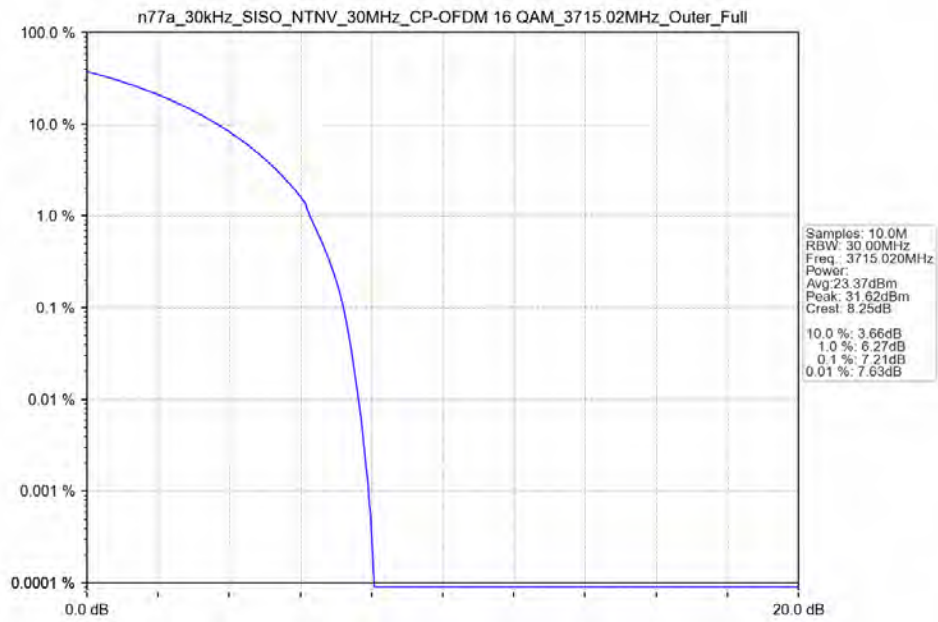
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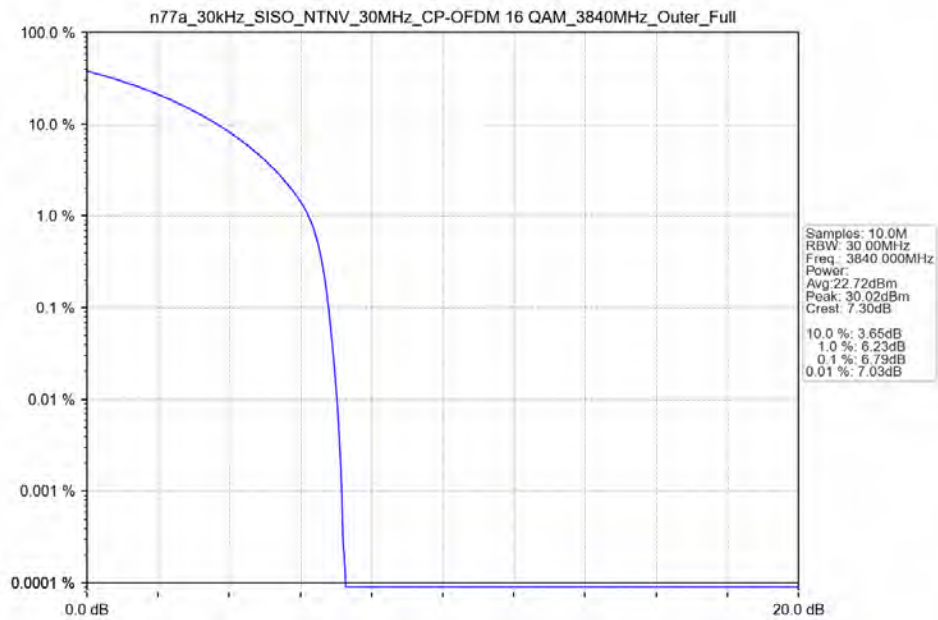
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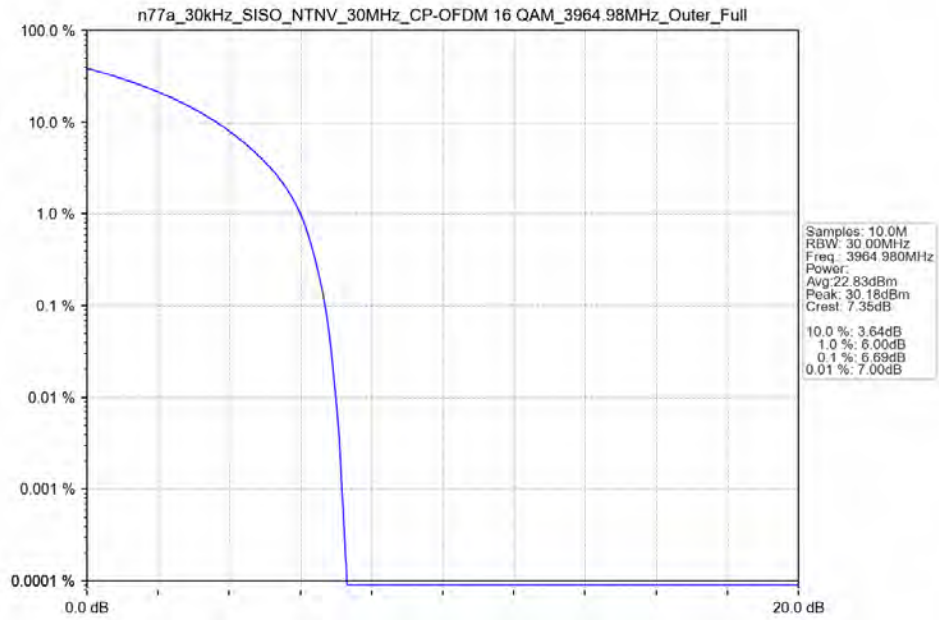
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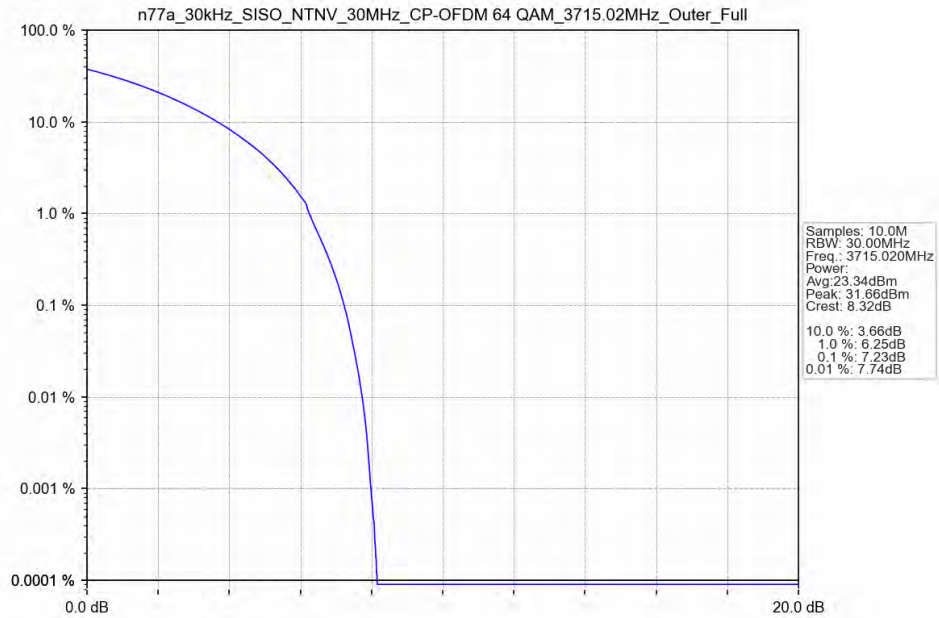
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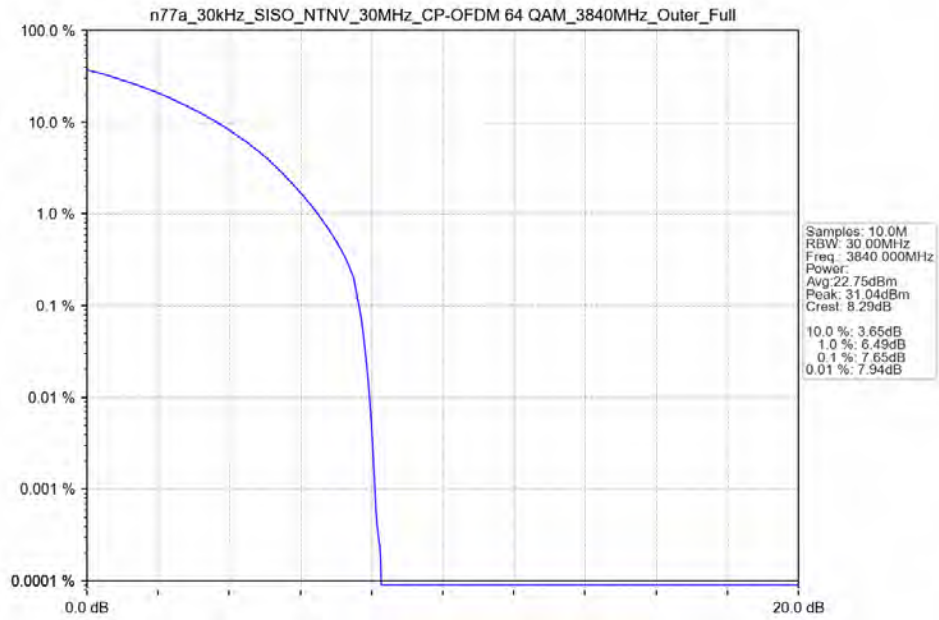
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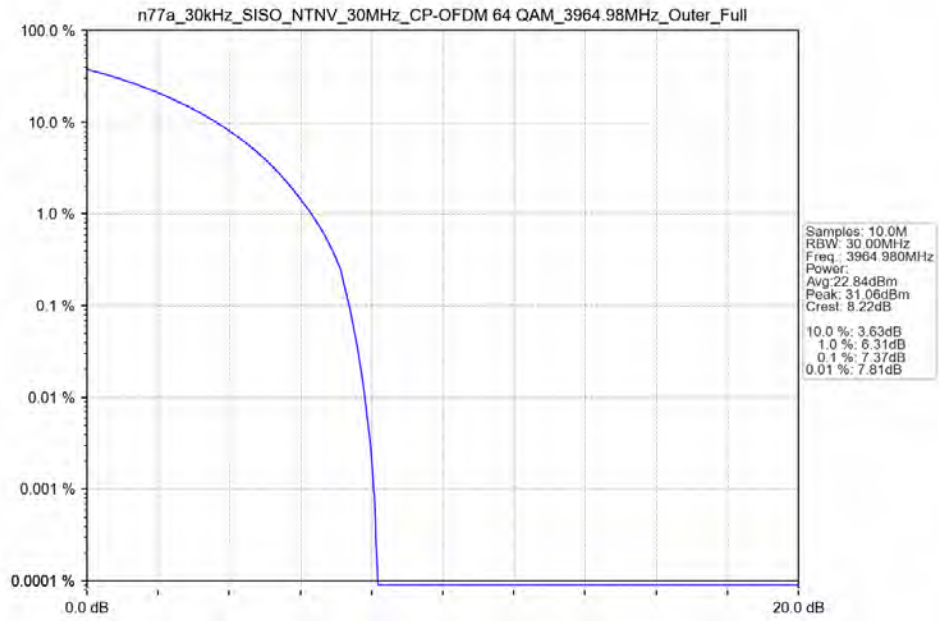
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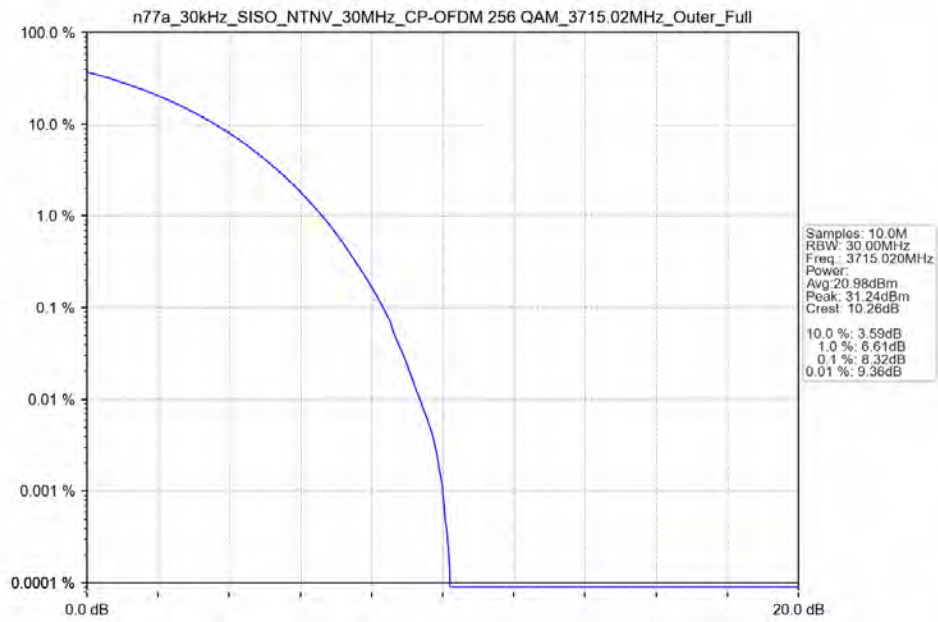
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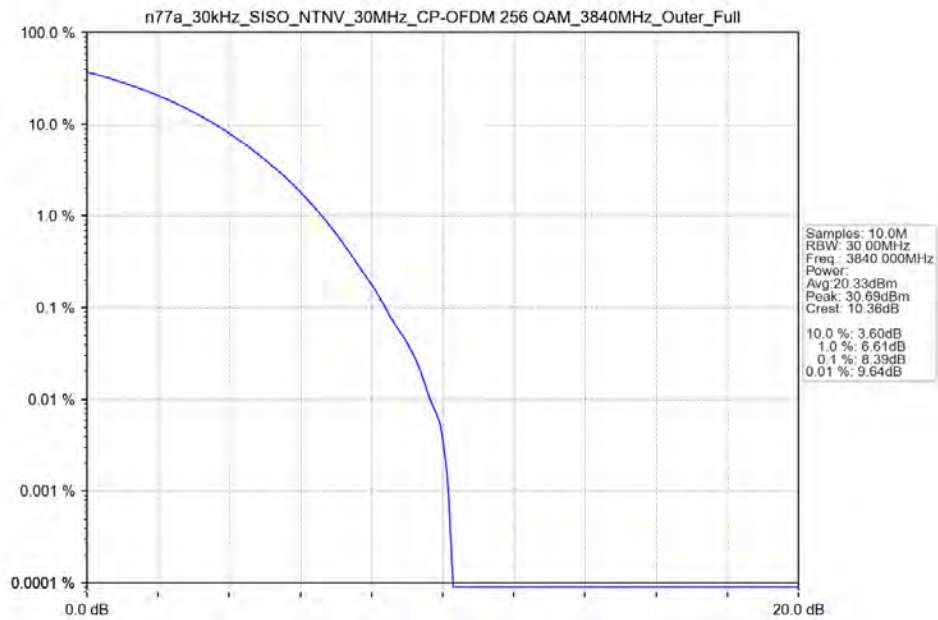
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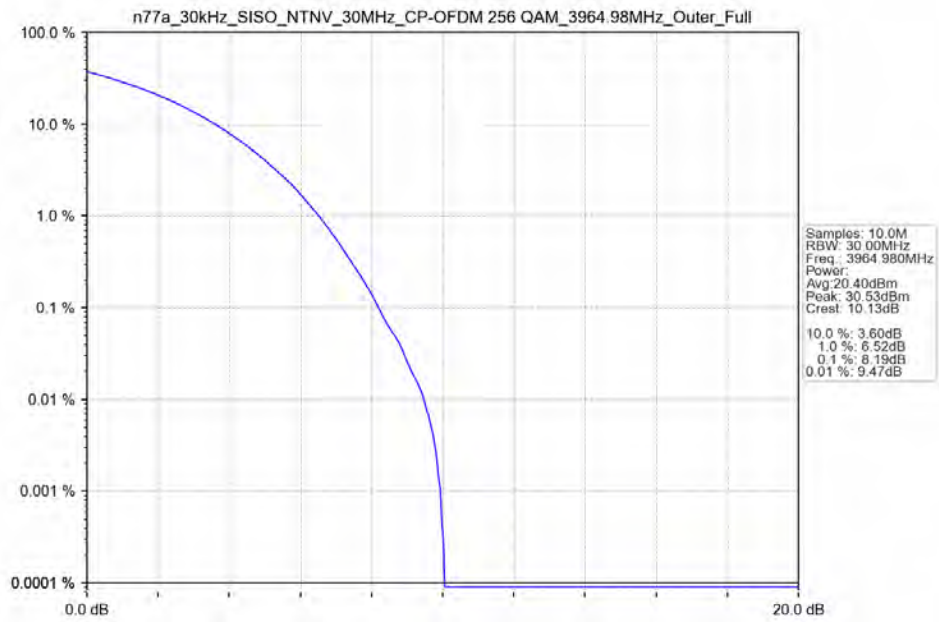
n77a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_256\_QAM\_3715.02MHz\_Outer\_Full\_Ant13



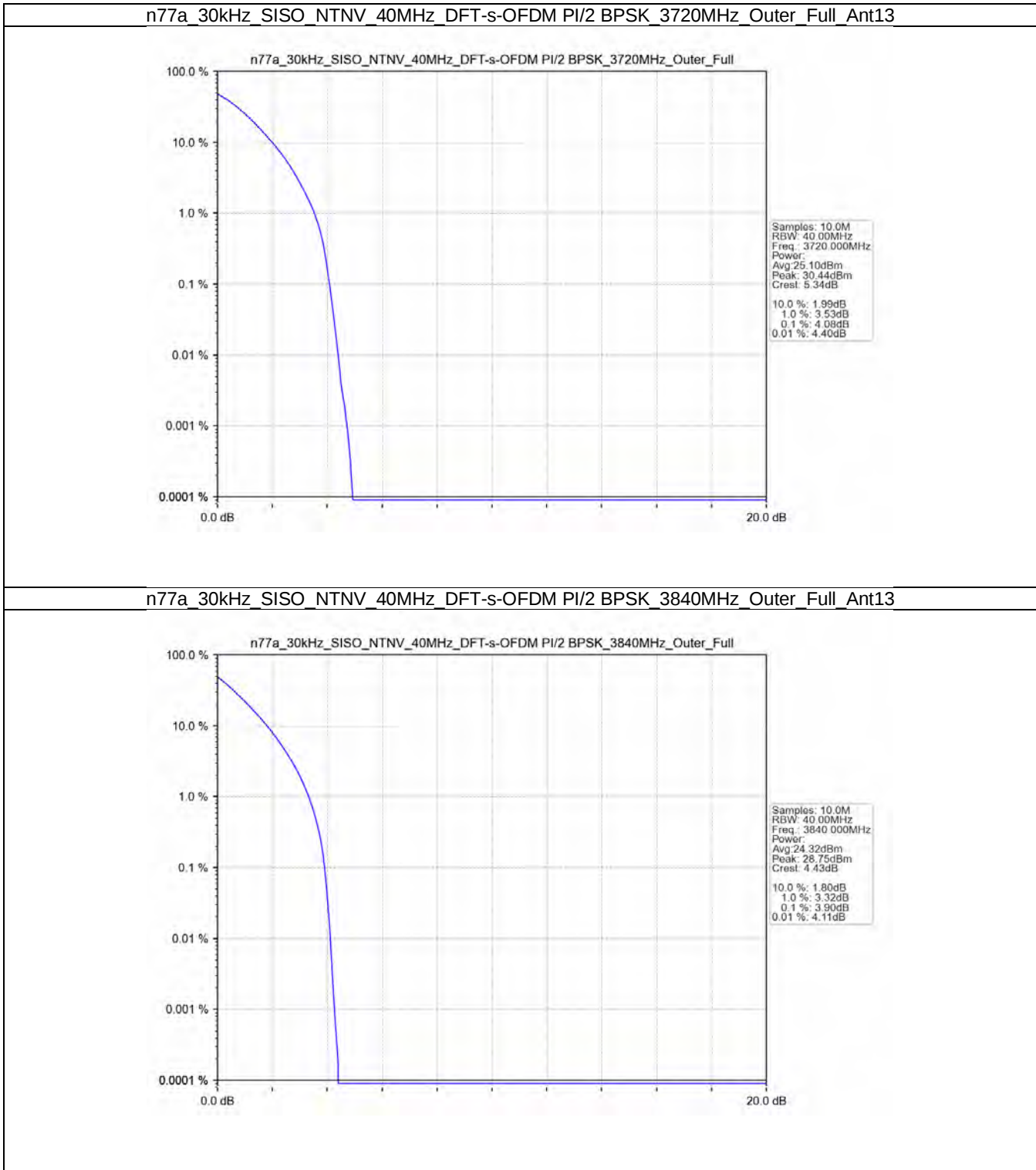
n77a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_256\_QAM\_3840MHz\_Outer\_Full\_Ant13



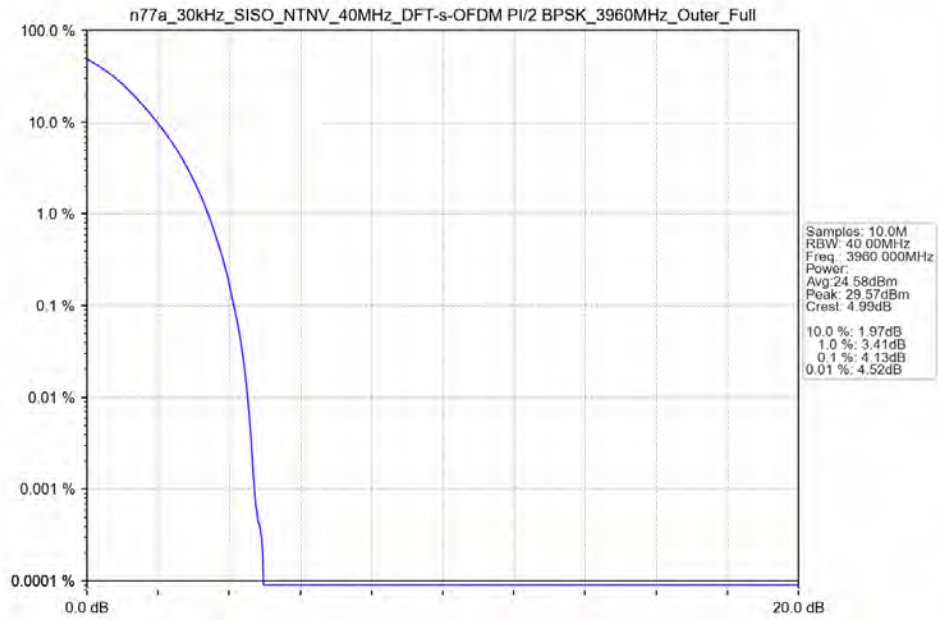
n77a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_256\_QAM\_3964.98MHz\_Outer\_Full\_Ant13



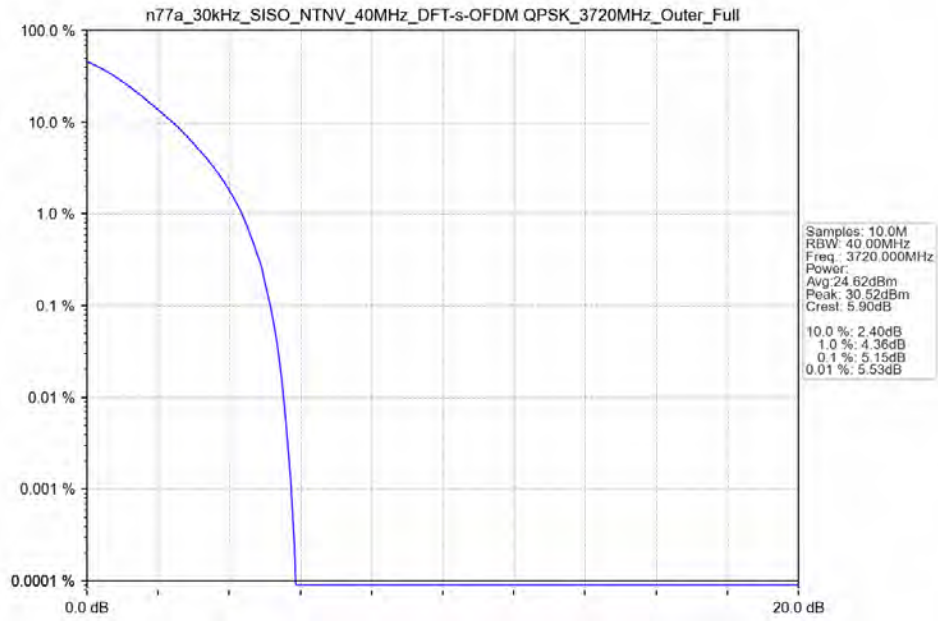
4.2.5 30k\_SISO\_40MHz\_NTNV



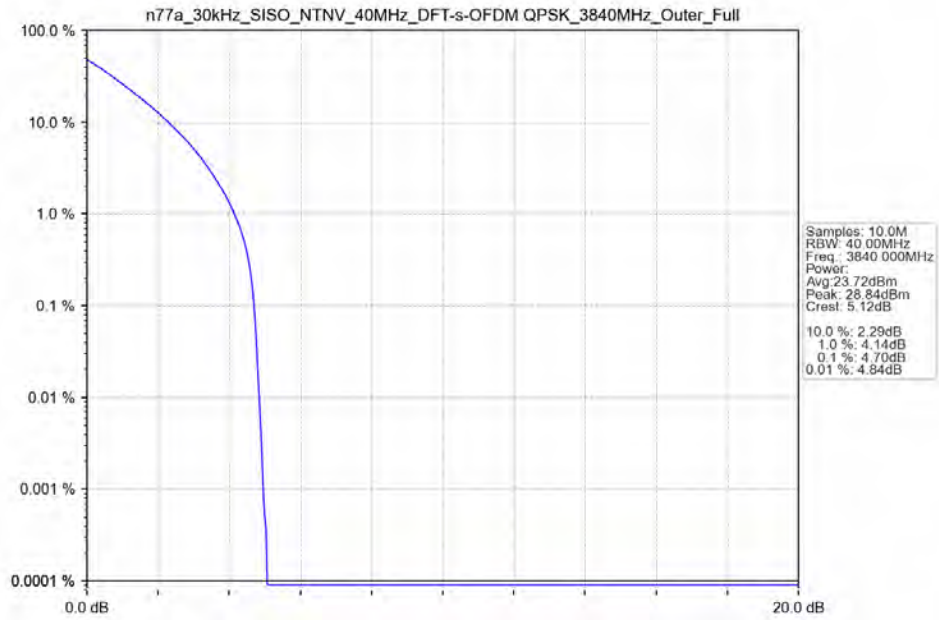
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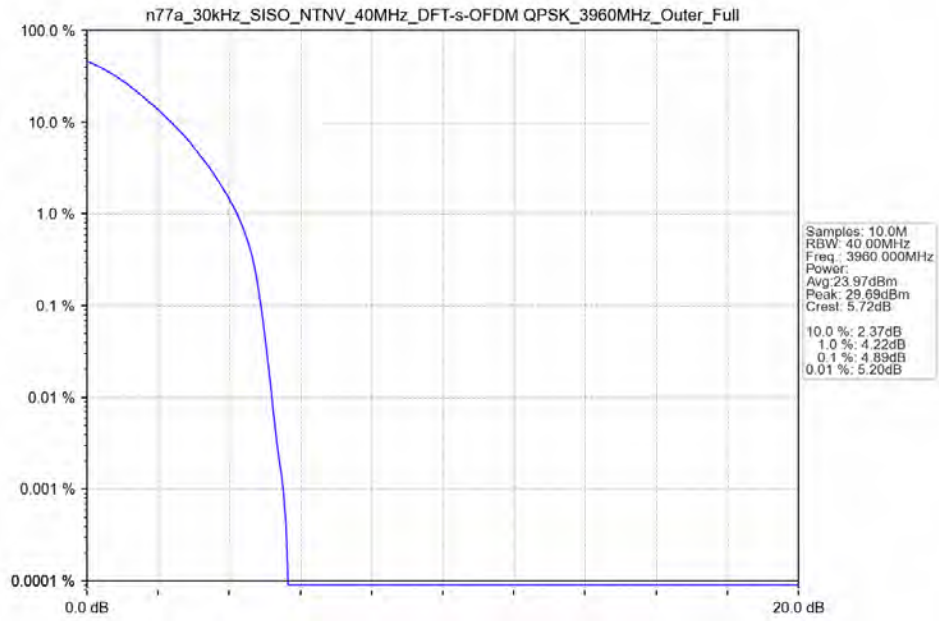
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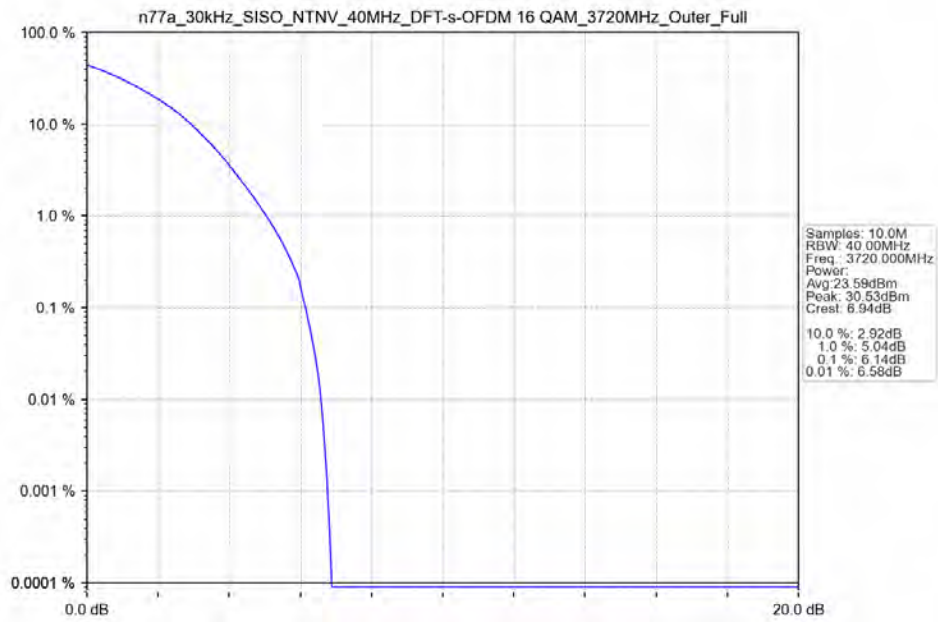
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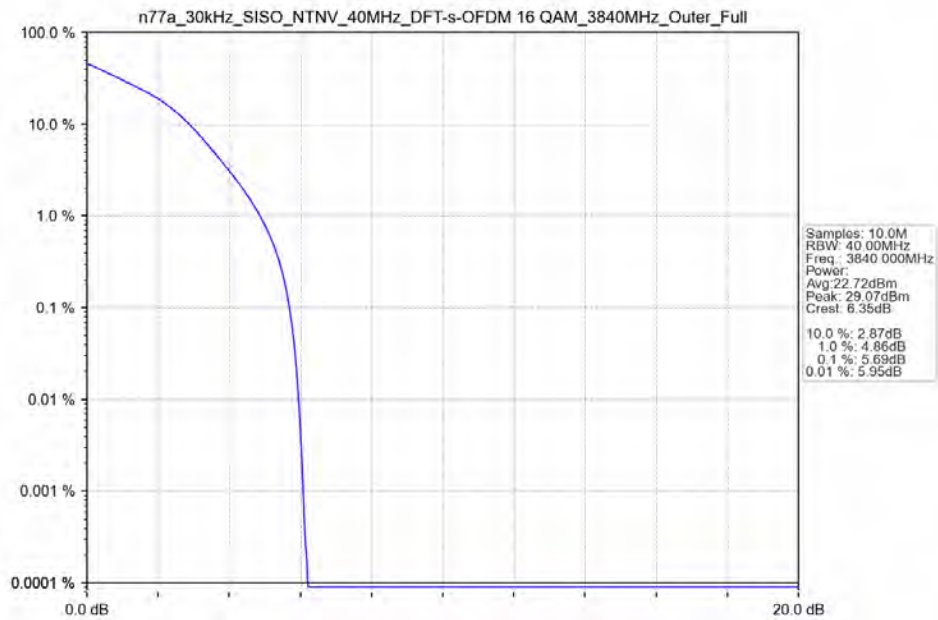
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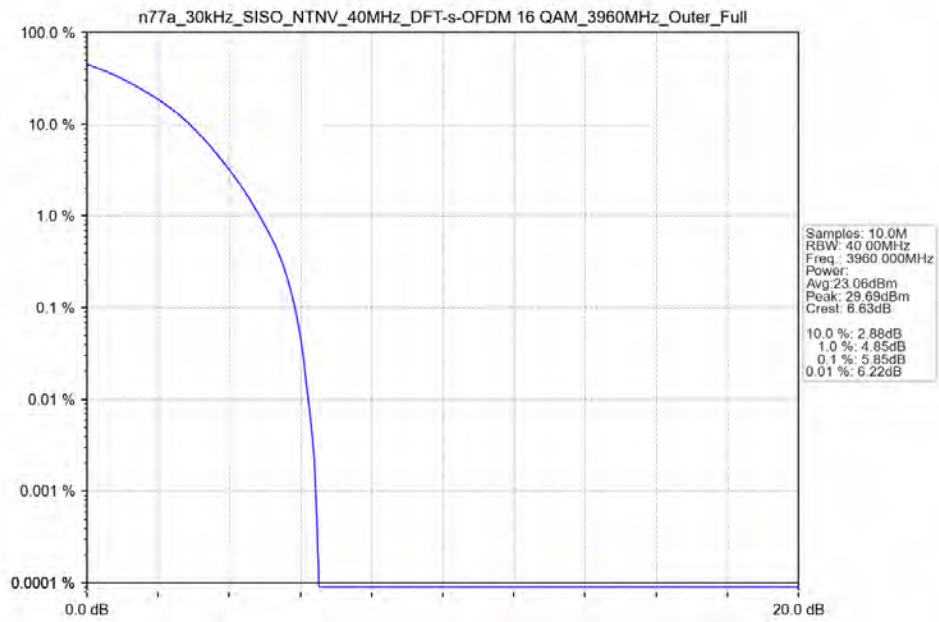
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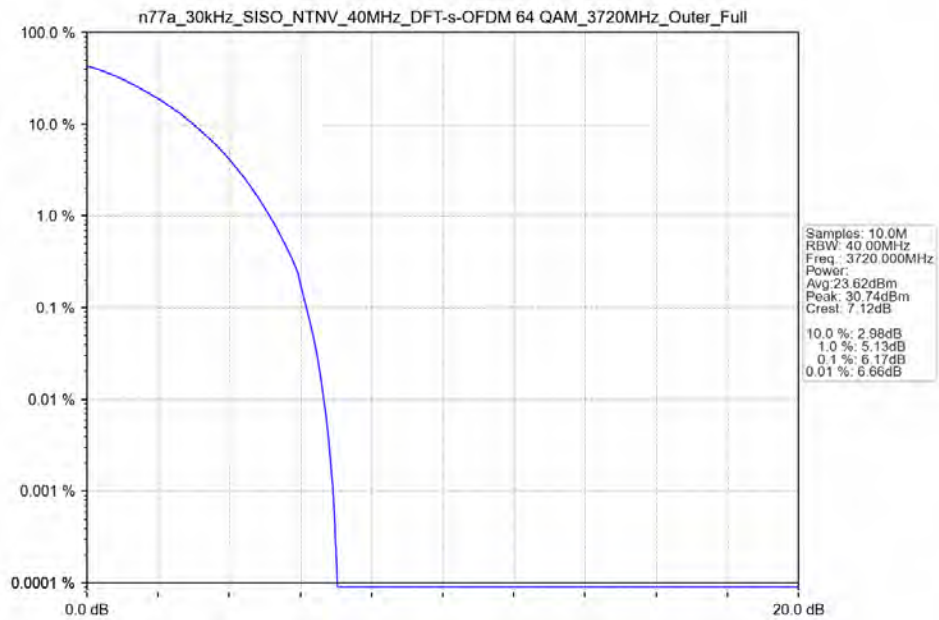
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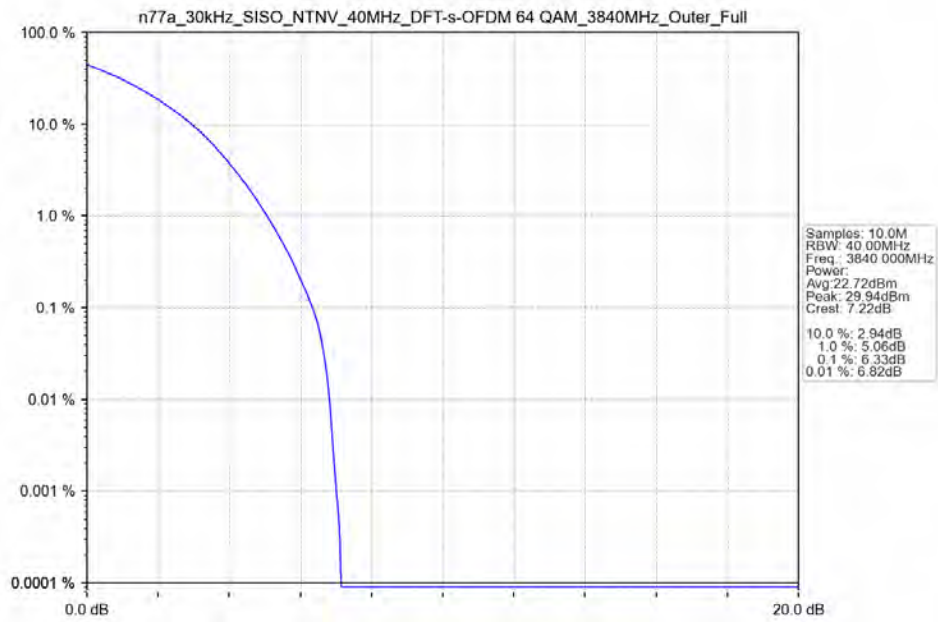
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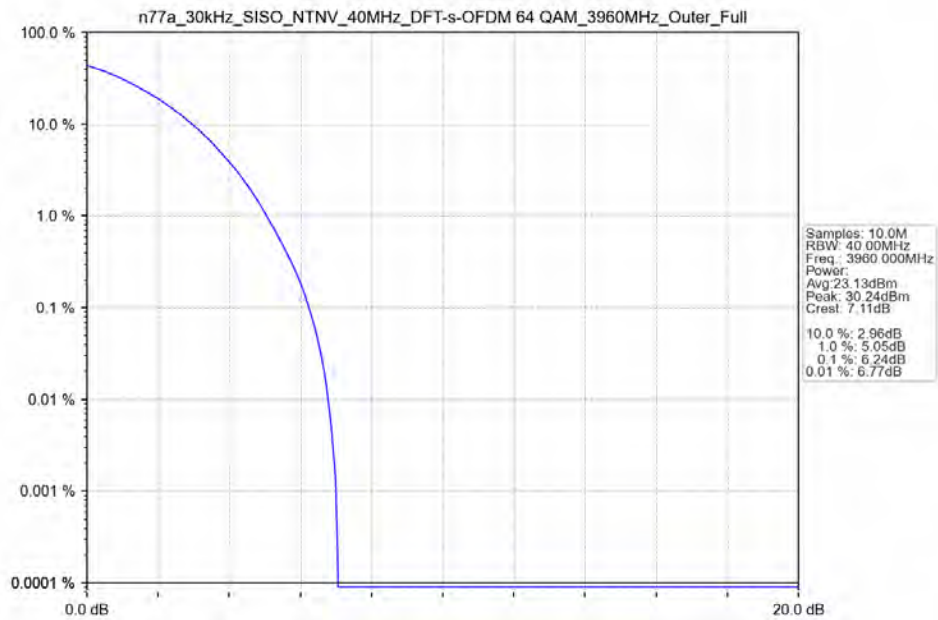
n77a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_64\_QAM\_3720MHz\_Outer\_Full\_Ant13



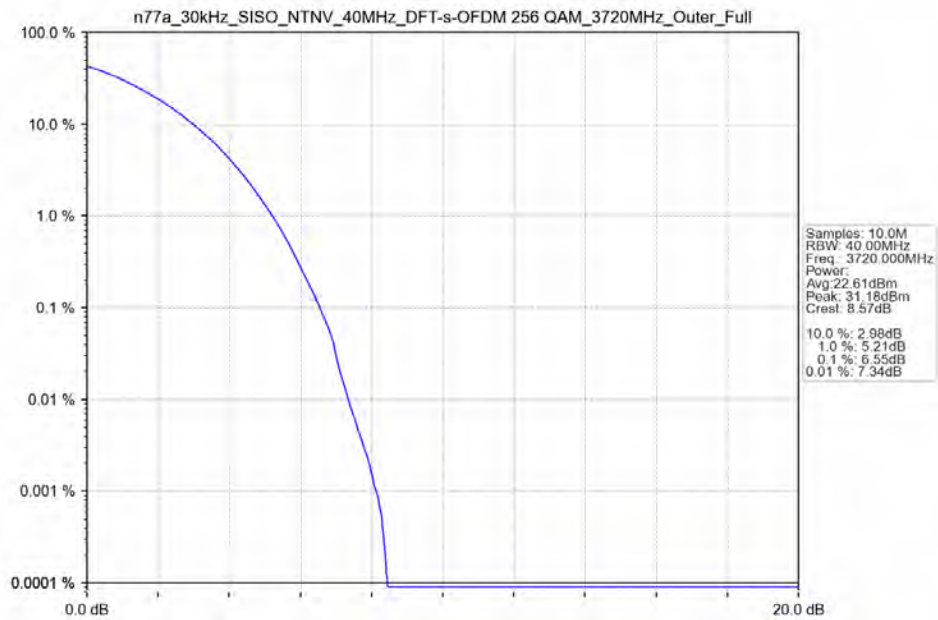
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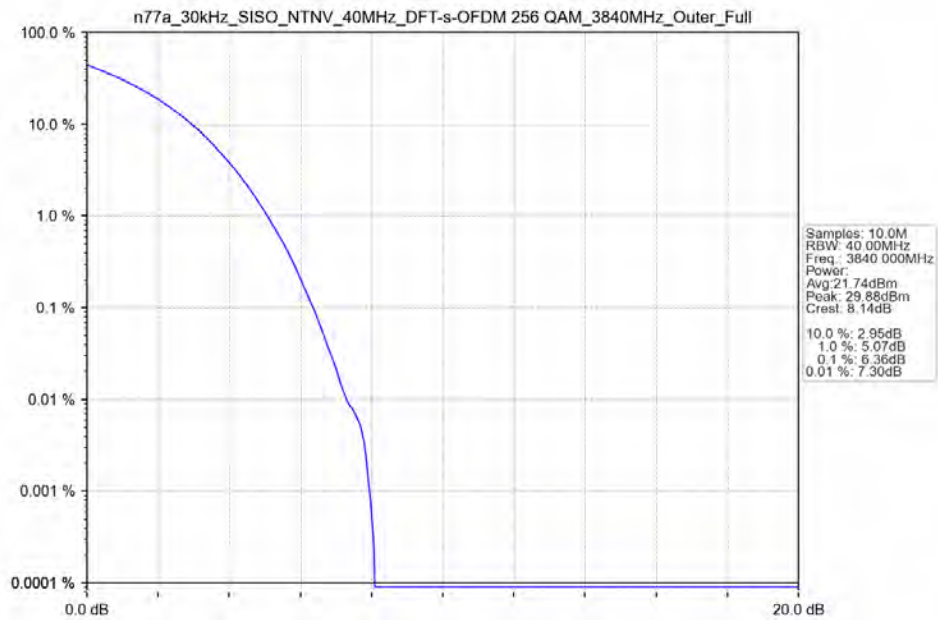
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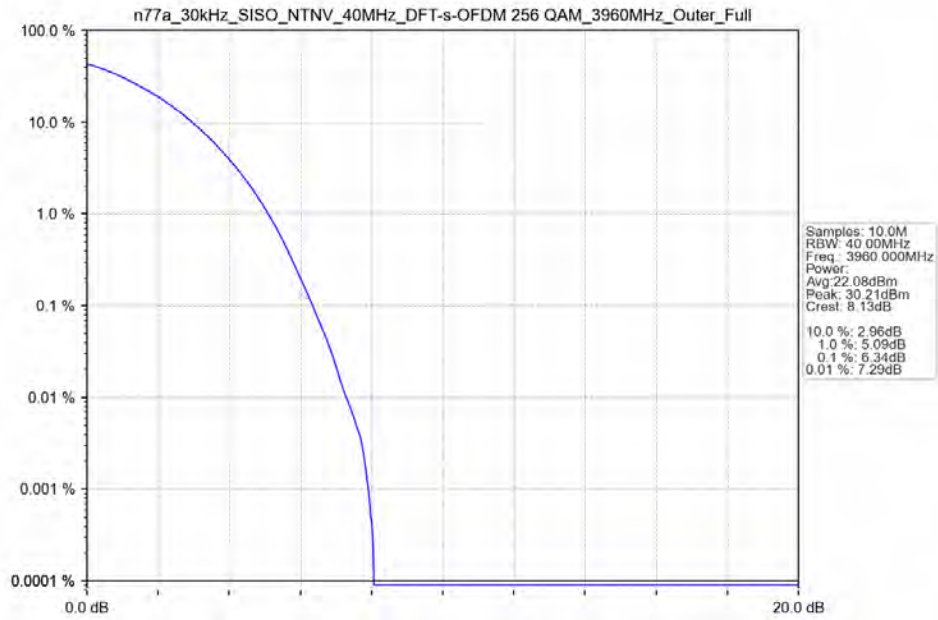
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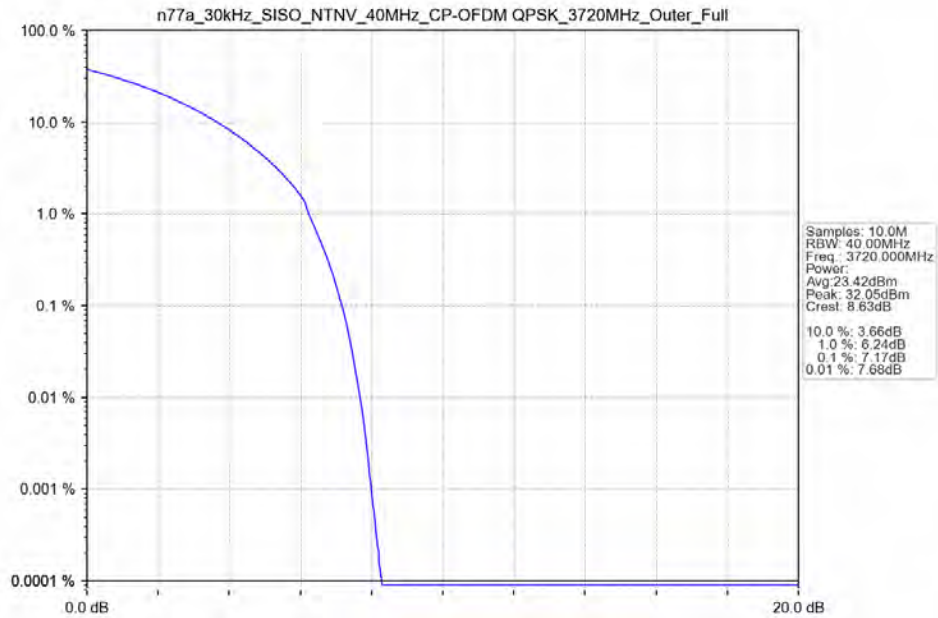
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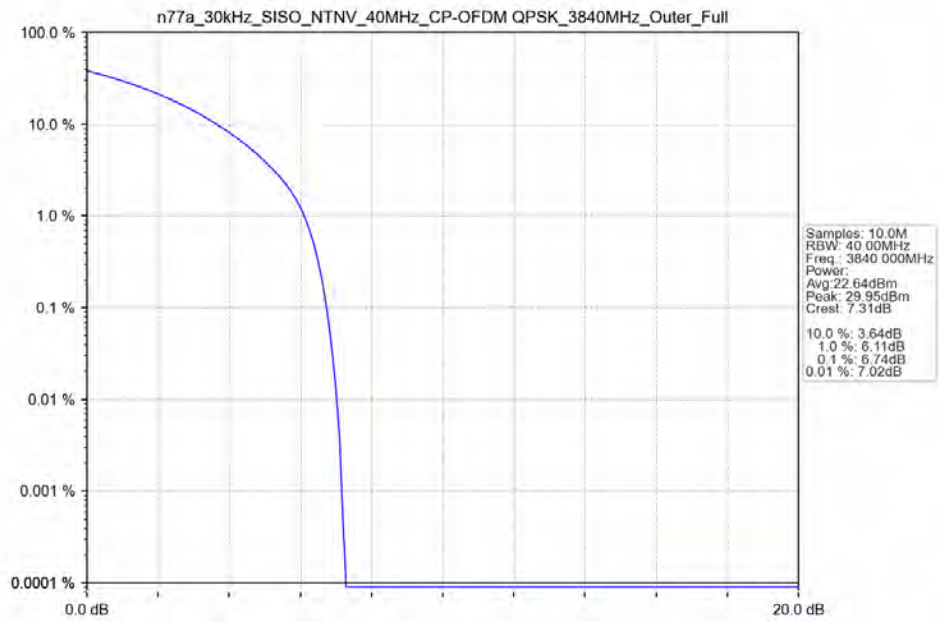
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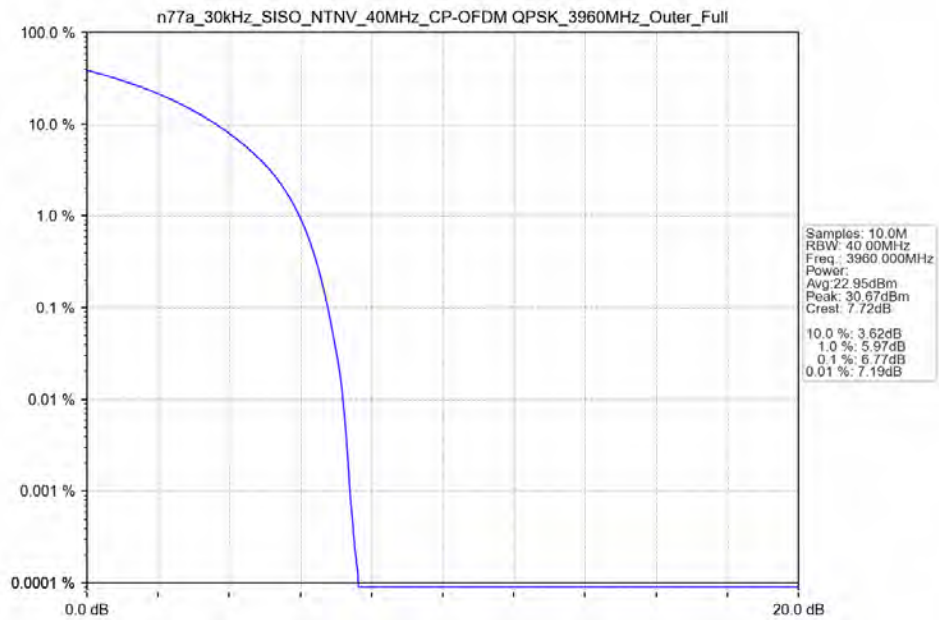
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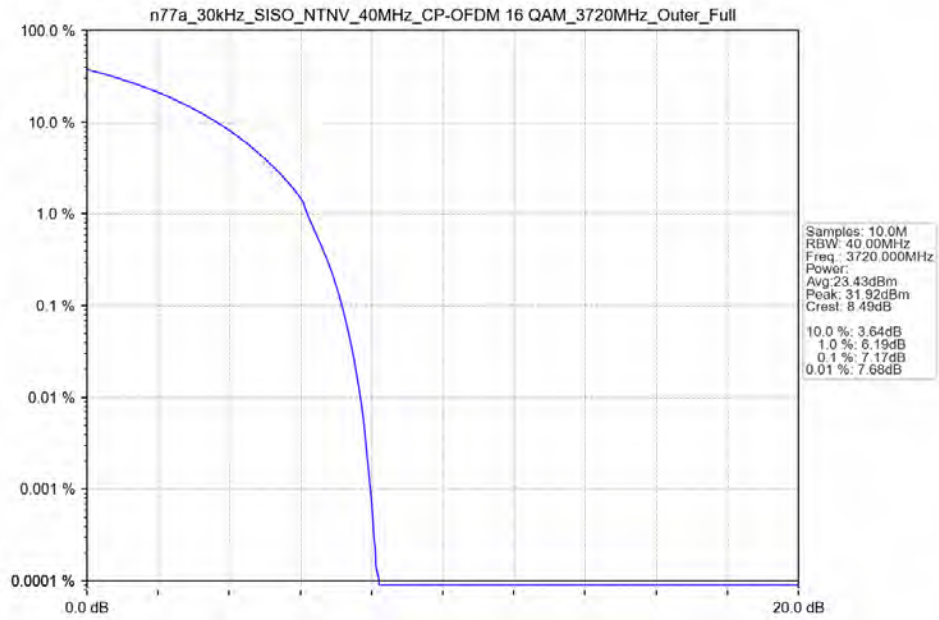
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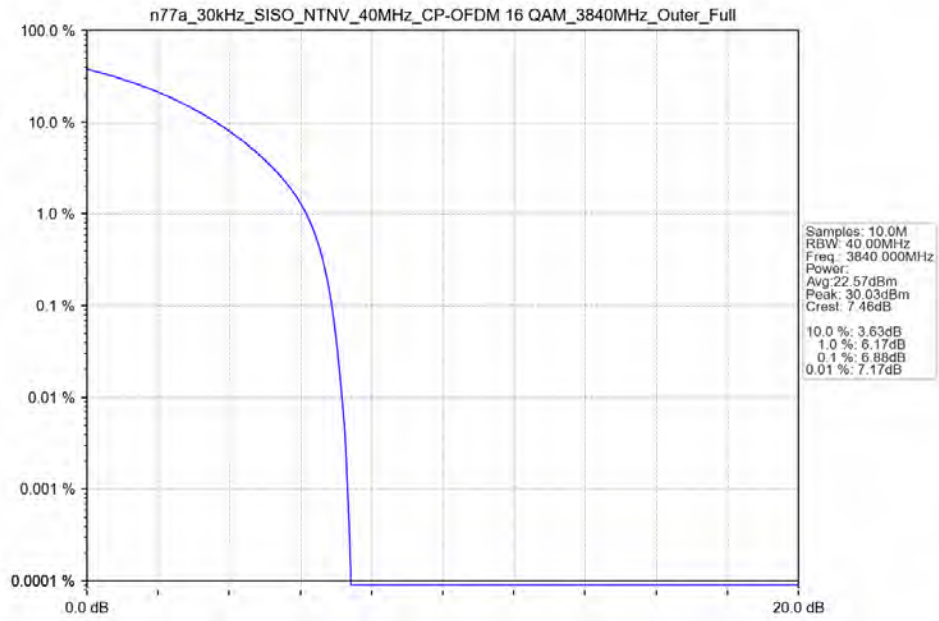
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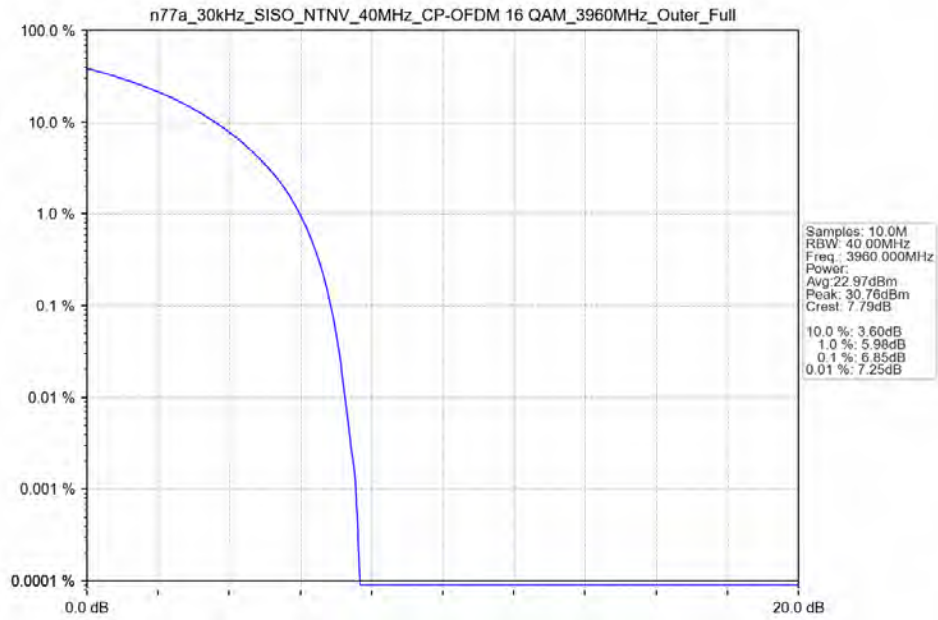
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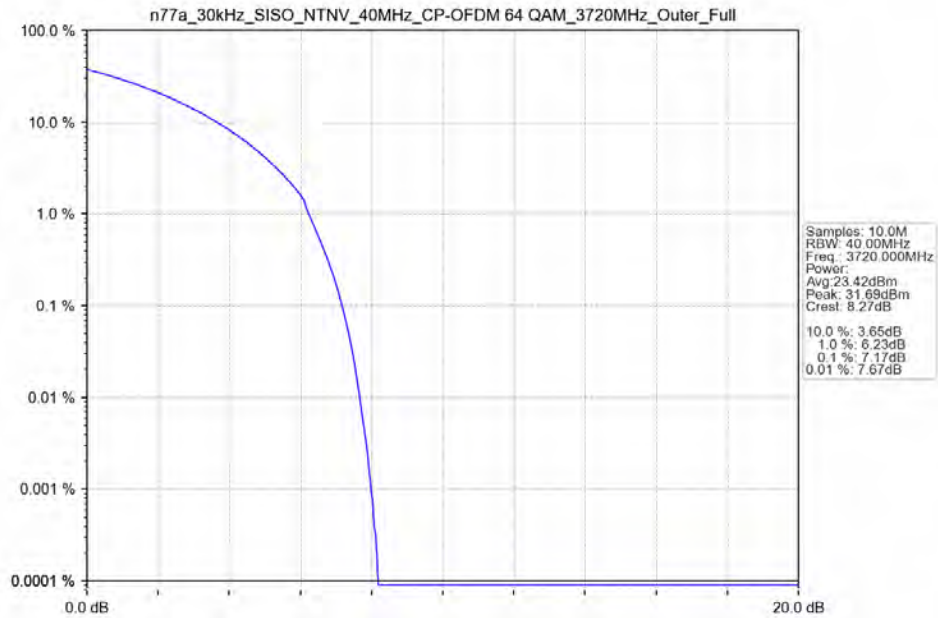
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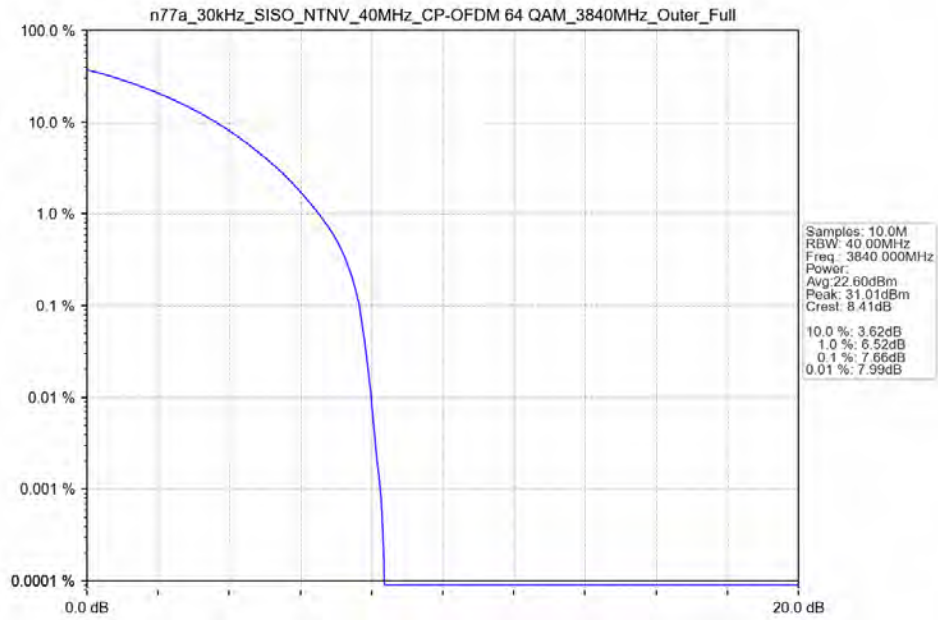
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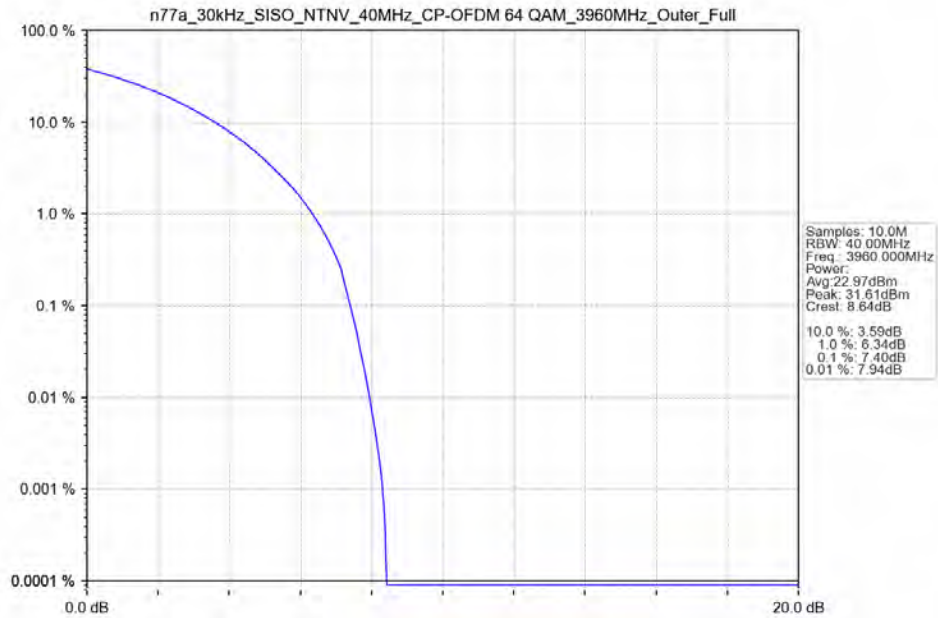
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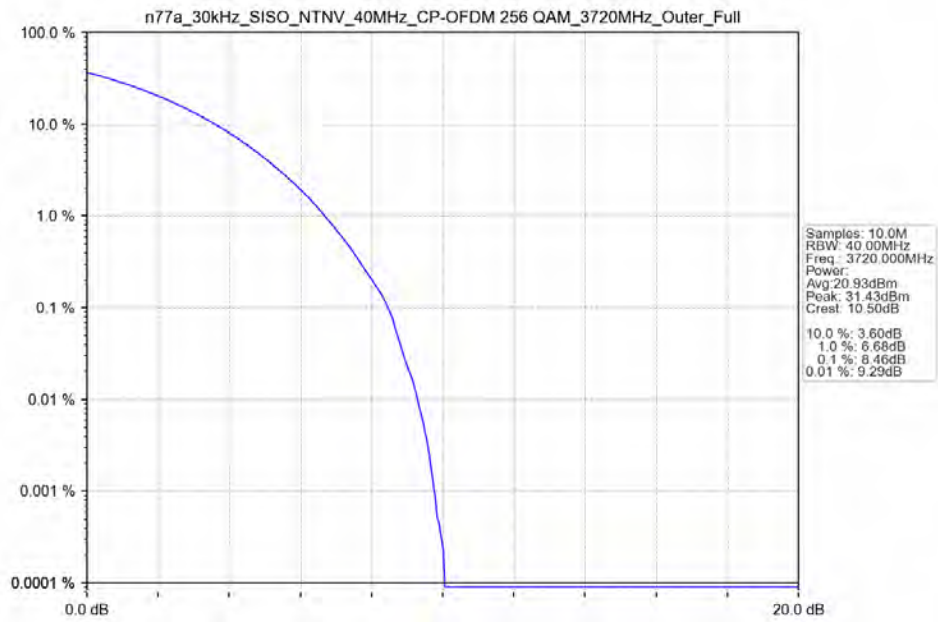
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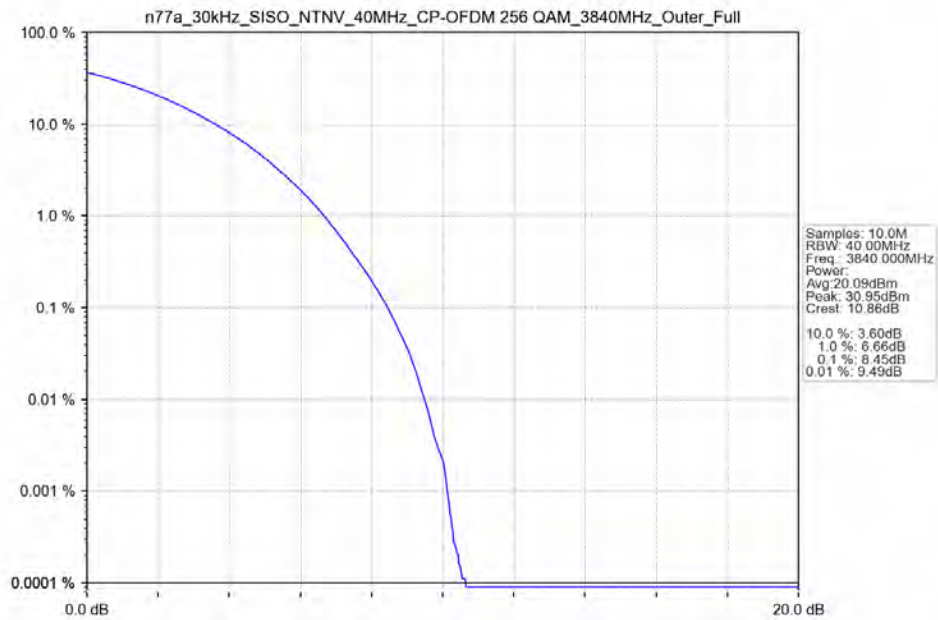
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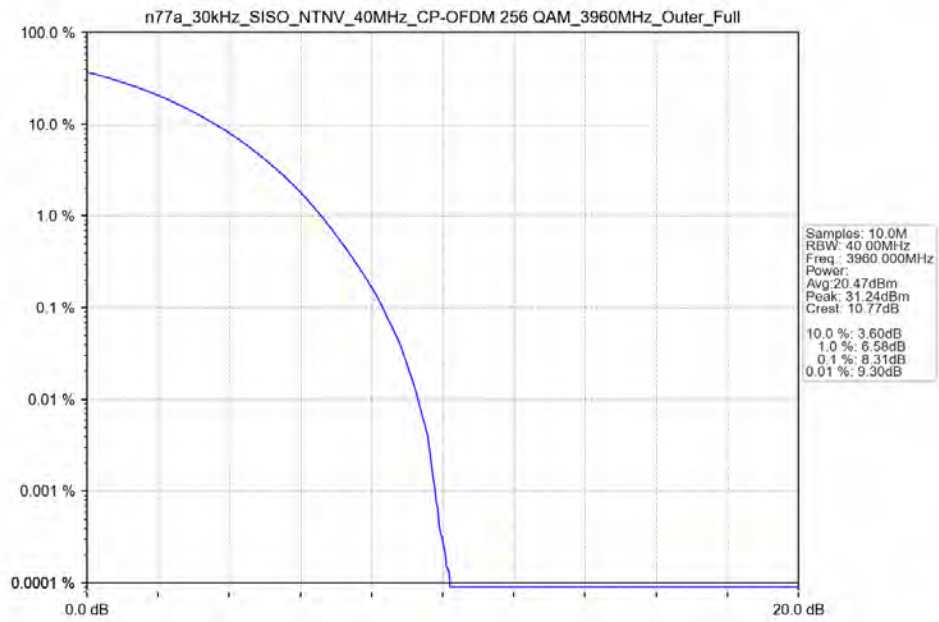
n77a\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM\_256\_QAM\_3720MHz\_Outer\_Full\_Ant13



n77a\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM\_256\_QAM\_3840MHz\_Outer\_Full\_Ant13



n77a\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM\_256\_QAM\_3960MHz\_Outer\_Full\_Ant13



4.2.6 30k\_SISO\_50MHz\_NTNV

