

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 15\_S\_10M\_NTNV\_EIRP

| 5G NR n30 SCS=15kHz SISO 10MHz NTNV |                 |                 |                      |      |     |           |      |     |       |         |
|-------------------------------------|-----------------|-----------------|----------------------|------|-----|-----------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation   | Conducted Power(dBm) |      |     | EIRP(dBm) |      |     |       | Verdict |
|                                     |                 |                 | Ant6                 | Ant2 | Sum | Ant6      | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 2310            | Edge 1RB Left   | 23.40                | /    | /   | 21.25     | /    | /   | /     | Pass    |
|                                     |                 | Edge 1RB Right  | 23.17                | /    | /   | 21.02     | /    | /   | /     | Pass    |
|                                     |                 | Outer Full      | 23.36                | /    | /   | 21.21     | /    | /   | /     | Pass    |
|                                     |                 | Inner Full      | 23.67                | /    | /   | 21.52     | /    | /   | /     | Pass    |
|                                     |                 | Inner 1RB Left  | 23.92                | /    | /   | 21.77     | /    | /   | /     | Pass    |
|                                     |                 | Inner 1RB Right | 23.71                | /    | /   | 21.56     | /    | /   | /     | Pass    |
| DFT-s-OFDM QPSK                     | 2310            | Edge 1RB Left   | 22.40                | /    | /   | 20.25     | /    | /   | /     | Pass    |
|                                     |                 | Edge 1RB Right  | 22.16                | /    | /   | 20.01     | /    | /   | /     | Pass    |
|                                     |                 | Outer Full      | 22.23                | /    | /   | 20.08     | /    | /   | /     | Pass    |
|                                     |                 | Inner Full      | 23.25                | /    | /   | 21.11     | /    | /   | /     | Pass    |
|                                     |                 | Inner 1RB Left  | 23.48                | /    | /   | 21.33     | /    | /   | /     | Pass    |
|                                     |                 | Inner 1RB Right | 23.21                | /    | /   | 21.06     | /    | /   | /     | Pass    |
| DFT-s-OFDM 16 QAM                   | 2310            | Edge 1RB Left   | 21.69                | /    | /   | 19.54     | /    | /   | /     | Pass    |
|                                     |                 | Edge 1RB Right  | 21.32                | /    | /   | 19.18     | /    | /   | /     | Pass    |
|                                     |                 | Outer Full      | 21.19                | /    | /   | 19.04     | /    | /   | /     | Pass    |
|                                     |                 | Inner Full      | 22.25                | /    | /   | 20.11     | /    | /   | /     | Pass    |
|                                     |                 | Inner 1RB Left  | 22.77                | /    | /   | 20.62     | /    | /   | /     | Pass    |
|                                     |                 | Inner 1RB Right | 22.39                | /    | /   | 20.24     | /    | /   | /     | Pass    |
| DFT-s-OFDM 64 QAM                   | 2310            | Edge 1RB Left   | 21.17                | /    | /   | 19.02     | /    | /   | /     | Pass    |
|                                     |                 | Edge 1RB Right  | 20.91                | /    | /   | 18.76     | /    | /   | /     | Pass    |
|                                     |                 | Outer Full      | 20.78                | /    | /   | 18.63     | /    | /   | /     | Pass    |
|                                     |                 | Inner Full      | 20.70                | /    | /   | 18.55     | /    | /   | /     | Pass    |
|                                     |                 | Inner 1RB Left  | 21.15                | /    | /   | 19.00     | /    | /   | /     | Pass    |
|                                     |                 | Inner 1RB Right | 20.98                | /    | /   | 18.83     | /    | /   | /     | Pass    |
| DFT-s-OFDM 256 QAM                  | 2310            | Edge 1RB Left   | 18.84                | /    | /   | 16.69     | /    | /   | /     | Pass    |
|                                     |                 | Edge 1RB Right  | 18.63                | /    | /   | 16.48     | /    | /   | /     | Pass    |
|                                     |                 | Outer Full      | 18.75                | /    | /   | 16.60     | /    | /   | /     | Pass    |
|                                     |                 | Inner Full      | 18.65                | /    | /   | 16.50     | /    | /   | /     | Pass    |
|                                     |                 | Inner 1RB Left  | 18.96                | /    | /   | 16.82     | /    | /   | /     | Pass    |
|                                     |                 | Inner 1RB Right | 18.75                | /    | /   | 16.60     | /    | /   | /     | Pass    |
| CP-OFDM QPSK                        | 2310            | Edge 1RB Left   | 20.43                | /    | /   | 18.28     | /    | /   | /     | Pass    |
|                                     |                 | Edge 1RB Right  | 20.27                | /    | /   | 18.12     | /    | /   | /     | Pass    |
|                                     |                 | Outer Full      | 20.18                | /    | /   | 18.03     | /    | /   | /     | Pass    |
|                                     |                 | Inner Full      | 21.73                | /    | /   | 19.58     | /    | /   | /     | Pass    |
|                                     |                 | Inner 1RB Left  | 22.16                | /    | /   | 20.01     | /    | /   | /     | Pass    |
|                                     |                 | Inner 1RB Right | 21.91                | /    | /   | 19.76     | /    | /   | /     | Pass    |
| CP-OFDM 16 QAM                      | 2310            | Edge 1RB Left   | 20.57                | /    | /   | 18.42     | /    | /   | /     | Pass    |
|                                     |                 | Edge 1RB Right  | 20.30                | /    | /   | 18.15     | /    | /   | /     | Pass    |
|                                     |                 | Outer Full      | 20.32                | /    | /   | 18.17     | /    | /   | /     | Pass    |
|                                     |                 | Inner Full      | 21.13                | /    | /   | 18.98     | /    | /   | /     | Pass    |
|                                     |                 | Inner 1RB Left  | 21.59                | /    | /   | 19.44     | /    | /   | /     | Pass    |
|                                     |                 | Inner 1RB Right | 21.39                | /    | /   | 19.24     | /    | /   | /     | Pass    |
| CP-OFDM 64 QAM                      | 2310            | Edge 1RB Left   | 20.06                | /    | /   | 17.91     | /    | /   | /     | Pass    |
|                                     |                 | Edge 1RB Right  | 19.93                | /    | /   | 17.78     | /    | /   | /     | Pass    |
|                                     |                 | Outer Full      | 19.72                | /    | /   | 17.57     | /    | /   | /     | Pass    |
|                                     |                 | Inner Full      | 19.80                | /    | /   | 17.65     | /    | /   | /     | Pass    |
|                                     |                 | Inner 1RB Left  | 20.14                | /    | /   | 17.99     | /    | /   | /     | Pass    |
|                                     |                 | Inner 1RB Right | 19.95                | /    | /   | 17.80     | /    | /   | /     | Pass    |
| CP-OFDM 256 QAM                     | 2310            | Edge 1RB Left   | 16.79                | /    | /   | 14.64     | /    | /   | /     | Pass    |

|                                                                                  |  |                 |       |   |   |       |   |   |   |      |
|----------------------------------------------------------------------------------|--|-----------------|-------|---|---|-------|---|---|---|------|
|                                                                                  |  | Edge 1RB Right  | 16.74 | / | / | 14.59 | / | / | / | Pass |
|                                                                                  |  | Outer Full      | 16.75 | / | / | 14.60 | / | / | / | Pass |
|                                                                                  |  | Inner Full      | 16.66 | / | / | 14.51 | / | / | / | Pass |
|                                                                                  |  | Inner 1RB Left  | 16.95 | / | / | 14.80 | / | / | / | Pass |
|                                                                                  |  | Inner 1RB Right | 16.82 | / | / | 14.67 | / | / | / | Pass |
| Note1: Antenna Gain: Ant6: -2.15dBi;<br>Note2: EIRP=Conducted Power+Antenna Gain |  |                 |       |   |   |       |   |   |   |      |

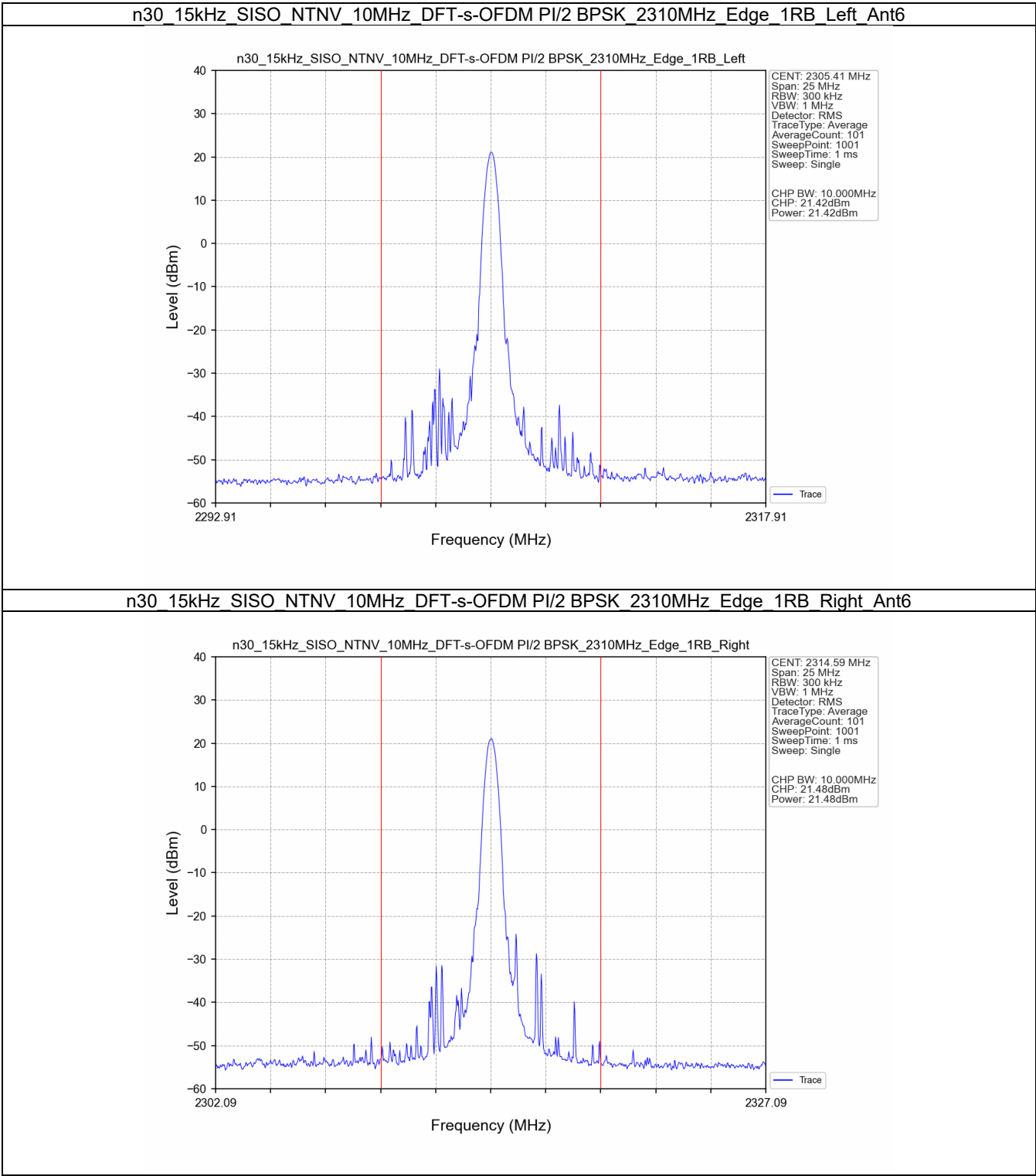
### 1.1.2 15\_S\_10M\_NTNV\_EIRP(dBm/5MHz)

| 5G NR n30 SCS=15kHz SISO 10MHz NTN |                 |                 |                           |      |     |                |      |     |       |         |
|------------------------------------|-----------------|-----------------|---------------------------|------|-----|----------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation   | Conducted Power(dBm/5MHz) |      |     | EIRP(dBm/5MHz) |      |     |       | Verdict |
|                                    |                 |                 | Ant6                      | Ant2 | Sum | Ant6           | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 2310            | Edge 1RB Left   | 22.87                     | /    | /   | 20.72          | /    | /   | /     | Pass    |
|                                    |                 | Edge 1RB Right  | 22.47                     | /    | /   | 20.32          | /    | /   | /     | Pass    |
|                                    |                 | Outer Full      | 22.74                     | /    | /   | 20.59          | /    | /   | /     | Pass    |
|                                    |                 | Inner Full      | 23.00                     | /    | /   | 20.85          | /    | /   | /     | Pass    |
|                                    |                 | Inner 1RB Left  | 23.32                     | /    | /   | 21.17          | /    | /   | /     | Pass    |
|                                    |                 | Inner 1RB Right | 23.20                     | /    | /   | 21.05          | /    | /   | /     | Pass    |
| DFT-s-OFDM QPSK                    | 2310            | Edge 1RB Left   | 21.20                     | /    | /   | 19.05          | /    | /   | /     | Pass    |
|                                    |                 | Edge 1RB Right  | 20.95                     | /    | /   | 18.80          | /    | /   | /     | Pass    |
|                                    |                 | Outer Full      | 21.04                     | /    | /   | 18.89          | /    | /   | /     | Pass    |
|                                    |                 | Inner Full      | 22.23                     | /    | /   | 20.08          | /    | /   | /     | Pass    |
|                                    |                 | Inner 1RB Left  | 22.22                     | /    | /   | 20.07          | /    | /   | /     | Pass    |
|                                    |                 | Inner 1RB Right | 21.94                     | /    | /   | 19.79          | /    | /   | /     | Pass    |
| DFT-s-OFDM 16 QAM                  | 2310            | Edge 1RB Left   | 20.30                     | /    | /   | 18.15          | /    | /   | /     | Pass    |
|                                    |                 | Edge 1RB Right  | 20.36                     | /    | /   | 18.21          | /    | /   | /     | Pass    |
|                                    |                 | Outer Full      | 20.06                     | /    | /   | 17.91          | /    | /   | /     | Pass    |
|                                    |                 | Inner Full      | 21.06                     | /    | /   | 18.91          | /    | /   | /     | Pass    |
|                                    |                 | Inner 1RB Left  | 21.43                     | /    | /   | 19.28          | /    | /   | /     | Pass    |
|                                    |                 | Inner 1RB Right | 21.46                     | /    | /   | 19.31          | /    | /   | /     | Pass    |
| DFT-s-OFDM 64 QAM                  | 2310            | Edge 1RB Left   | 19.87                     | /    | /   | 17.72          | /    | /   | /     | Pass    |
|                                    |                 | Edge 1RB Right  | 19.85                     | /    | /   | 17.70          | /    | /   | /     | Pass    |
|                                    |                 | Outer Full      | 19.55                     | /    | /   | 17.40          | /    | /   | /     | Pass    |
|                                    |                 | Inner Full      | 19.36                     | /    | /   | 17.21          | /    | /   | /     | Pass    |
|                                    |                 | Inner 1RB Left  | 20.10                     | /    | /   | 17.95          | /    | /   | /     | Pass    |
|                                    |                 | Inner 1RB Right | 19.60                     | /    | /   | 17.45          | /    | /   | /     | Pass    |
| DFT-s-OFDM 256 QAM                 | 2310            | Edge 1RB Left   | 17.56                     | /    | /   | 15.41          | /    | /   | /     | Pass    |
|                                    |                 | Edge 1RB Right  | 17.28                     | /    | /   | 15.13          | /    | /   | /     | Pass    |
|                                    |                 | Outer Full      | 17.49                     | /    | /   | 15.34          | /    | /   | /     | Pass    |
|                                    |                 | Inner Full      | 17.44                     | /    | /   | 15.29          | /    | /   | /     | Pass    |
|                                    |                 | Inner 1RB Left  | 17.84                     | /    | /   | 15.69          | /    | /   | /     | Pass    |
|                                    |                 | Inner 1RB Right | 17.32                     | /    | /   | 15.17          | /    | /   | /     | Pass    |
| CP-OFDM QPSK                       | 2310            | Edge 1RB Left   | 19.48                     | /    | /   | 17.33          | /    | /   | /     | Pass    |
|                                    |                 | Edge 1RB Right  | 18.90                     | /    | /   | 16.75          | /    | /   | /     | Pass    |
|                                    |                 | Outer Full      | 19.01                     | /    | /   | 16.86          | /    | /   | /     | Pass    |
|                                    |                 | Inner Full      | 20.54                     | /    | /   | 18.39          | /    | /   | /     | Pass    |
|                                    |                 | Inner 1RB Left  | 21.05                     | /    | /   | 18.90          | /    | /   | /     | Pass    |
|                                    |                 | Inner 1RB Right | 20.79                     | /    | /   | 18.64          | /    | /   | /     | Pass    |
| CP-OFDM 16 QAM                     | 2310            | Edge 1RB Left   | 19.26                     | /    | /   | 17.11          | /    | /   | /     | Pass    |
|                                    |                 | Edge 1RB Right  | 19.05                     | /    | /   | 16.90          | /    | /   | /     | Pass    |
|                                    |                 | Outer Full      | 19.02                     | /    | /   | 16.87          | /    | /   | /     | Pass    |
|                                    |                 | Inner Full      | 19.96                     | /    | /   | 17.81          | /    | /   | /     | Pass    |
|                                    |                 | Inner 1RB Left  | 20.57                     | /    | /   | 18.42          | /    | /   | /     | Pass    |
|                                    |                 | Inner 1RB Right | 20.19                     | /    | /   | 18.04          | /    | /   | /     | Pass    |
| CP-OFDM 64 QAM                     | 2310            | Edge 1RB Left   | 19.09                     | /    | /   | 16.94          | /    | /   | /     | Pass    |
|                                    |                 | Edge 1RB Right  | 18.50                     | /    | /   | 16.35          | /    | /   | /     | Pass    |
|                                    |                 | Outer Full      | 18.61                     | /    | /   | 16.46          | /    | /   | /     | Pass    |

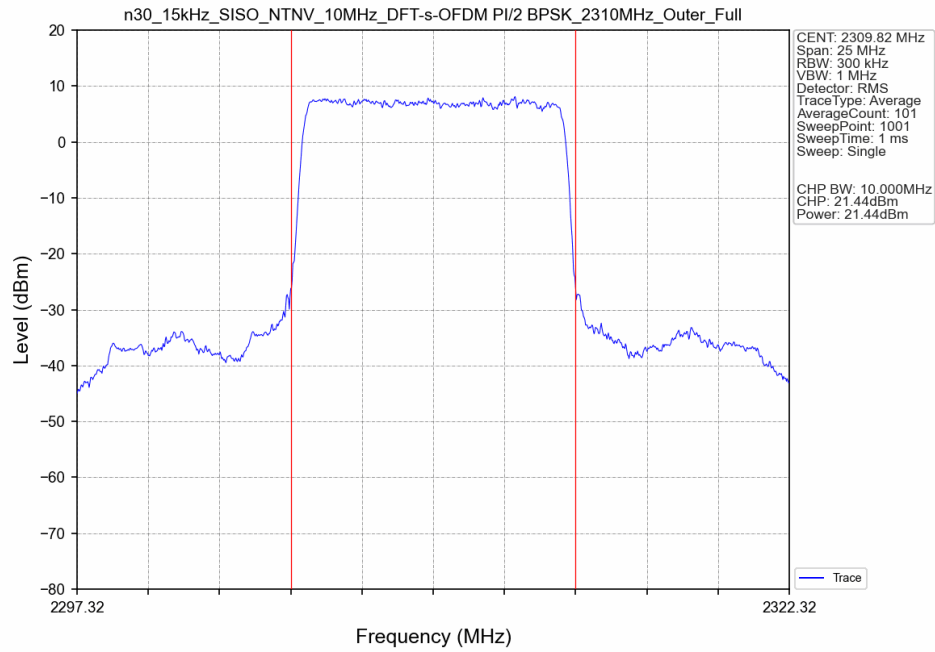
|                 |      |                                                                                  |       |   |   |       |   |   |   |      |
|-----------------|------|----------------------------------------------------------------------------------|-------|---|---|-------|---|---|---|------|
|                 |      | Inner Full                                                                       | 18.65 | / | / | 16.50 | / | / | / | Pass |
|                 |      | Inner 1RB Left                                                                   | 18.91 | / | / | 16.76 | / | / | / | Pass |
|                 |      | Inner 1RB Right                                                                  | 19.12 | / | / | 16.97 | / | / | / | Pass |
| CP-OFDM 256 QAM | 2310 | Edge 1RB Left                                                                    | 15.94 | / | / | 13.79 | / | / | / | Pass |
|                 |      | Edge 1RB Right                                                                   | 15.31 | / | / | 13.16 | / | / | / | Pass |
|                 |      | Outer Full                                                                       | 15.54 | / | / | 13.39 | / | / | / | Pass |
|                 |      | Inner Full                                                                       | 15.50 | / | / | 13.35 | / | / | / | Pass |
|                 |      | Inner 1RB Left                                                                   | 15.77 | / | / | 13.62 | / | / | / | Pass |
|                 |      | Inner 1RB Right                                                                  | 15.13 | / | / | 12.98 | / | / | / | Pass |
|                 |      | Note1: Antenna Gain: Ant6: -2.15dBi;<br>Note2: EIRP=Conducted Power+Antenna Gain |       |   |   |       |   |   |   |      |

# 1.2 Test Graph

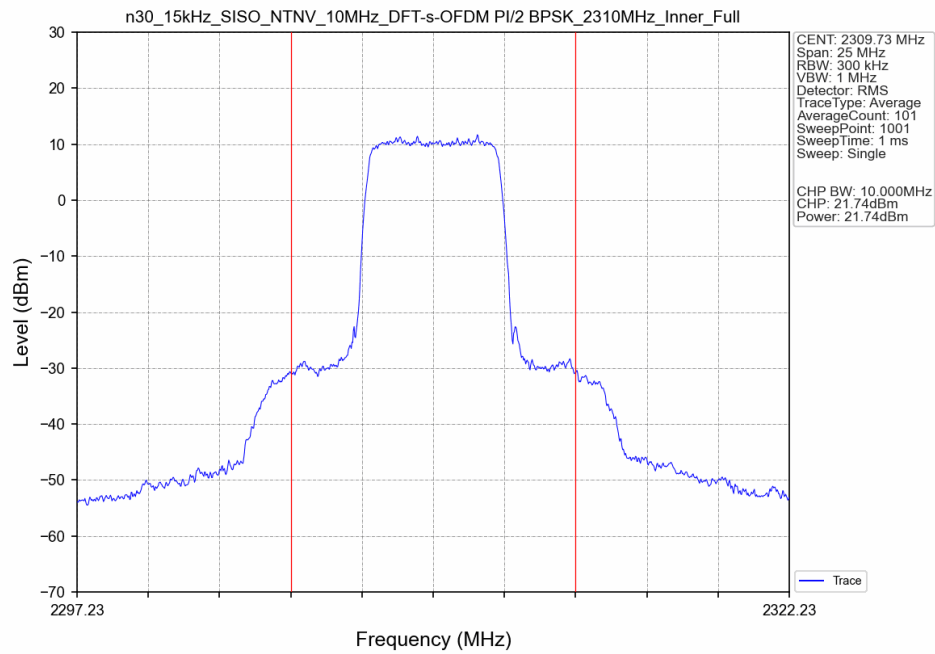
## 1.2.1 15\_S\_10M\_NTNV\_EIRP(dBm/5MHz)



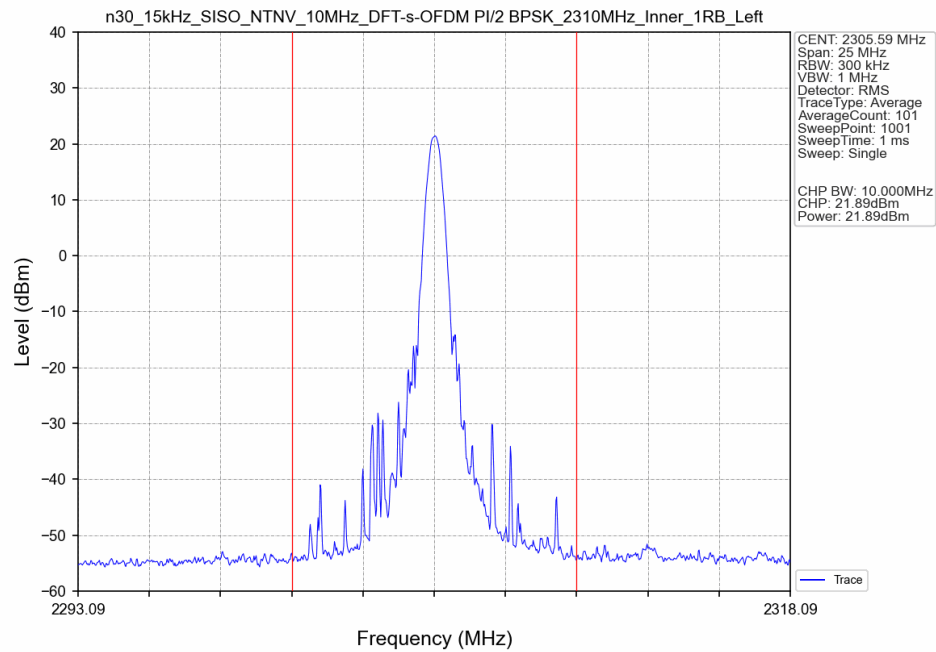
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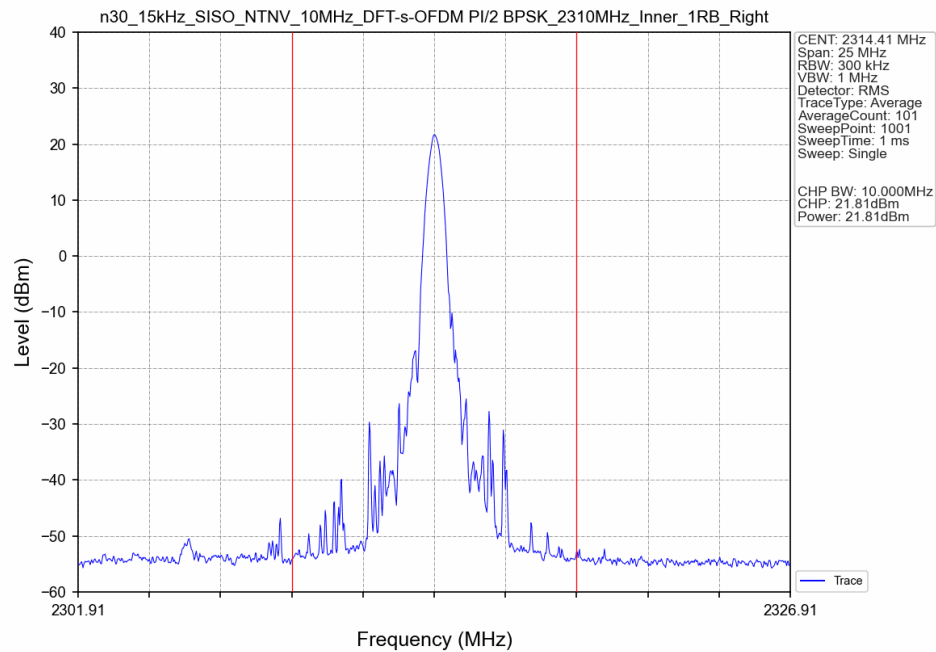
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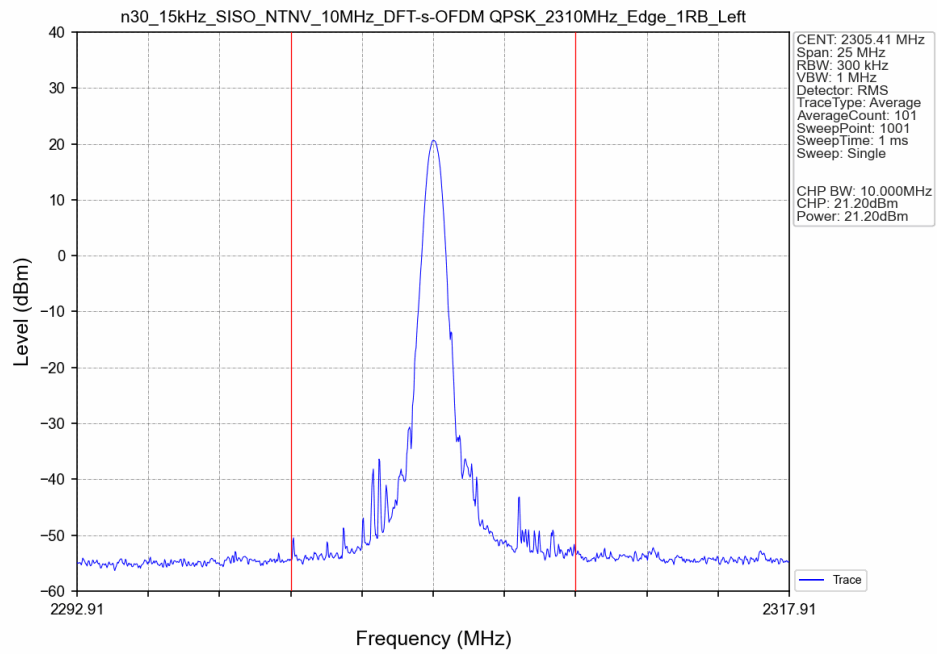
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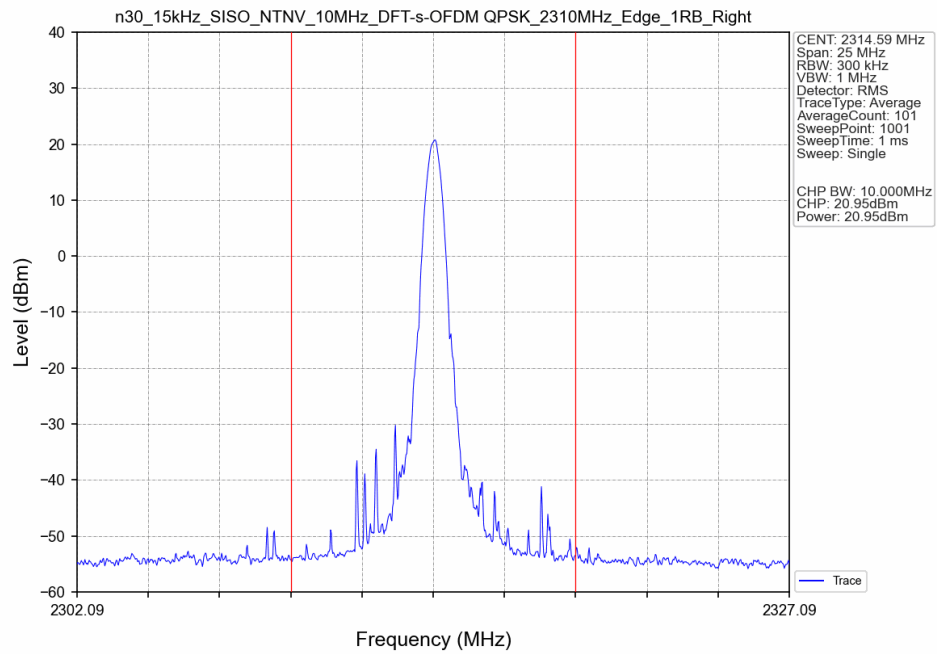
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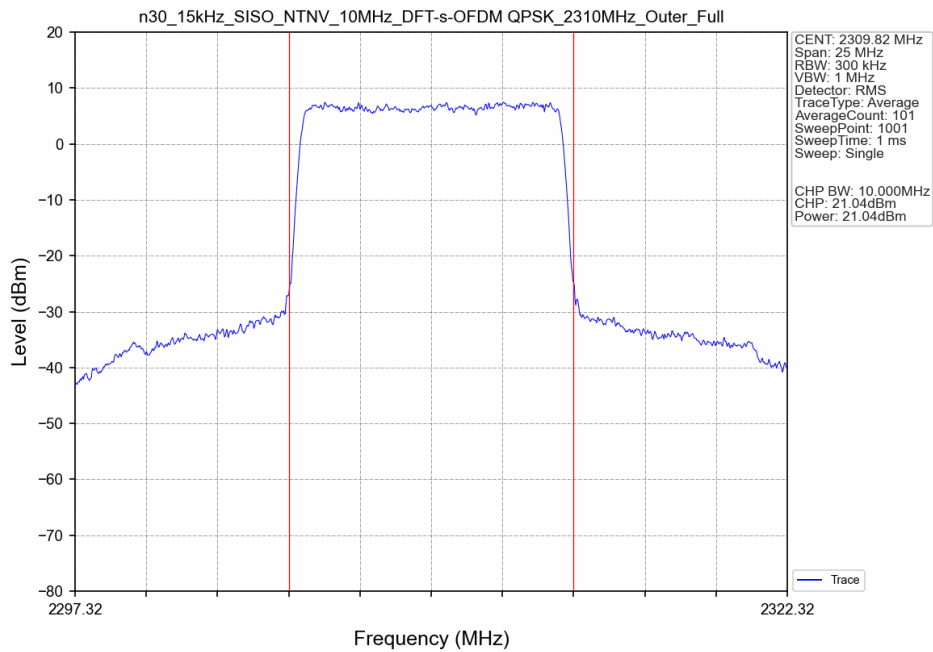
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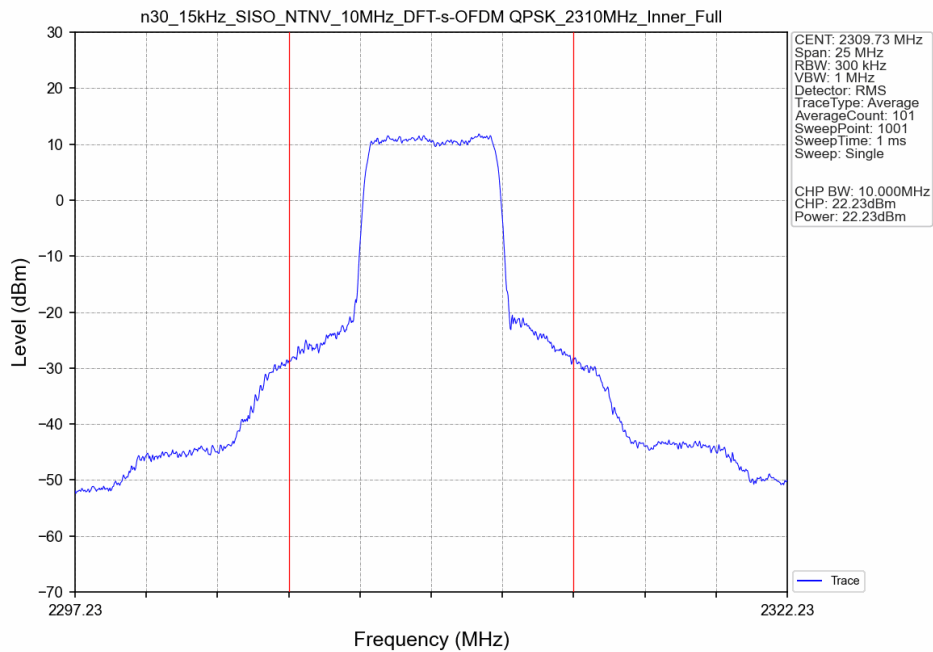
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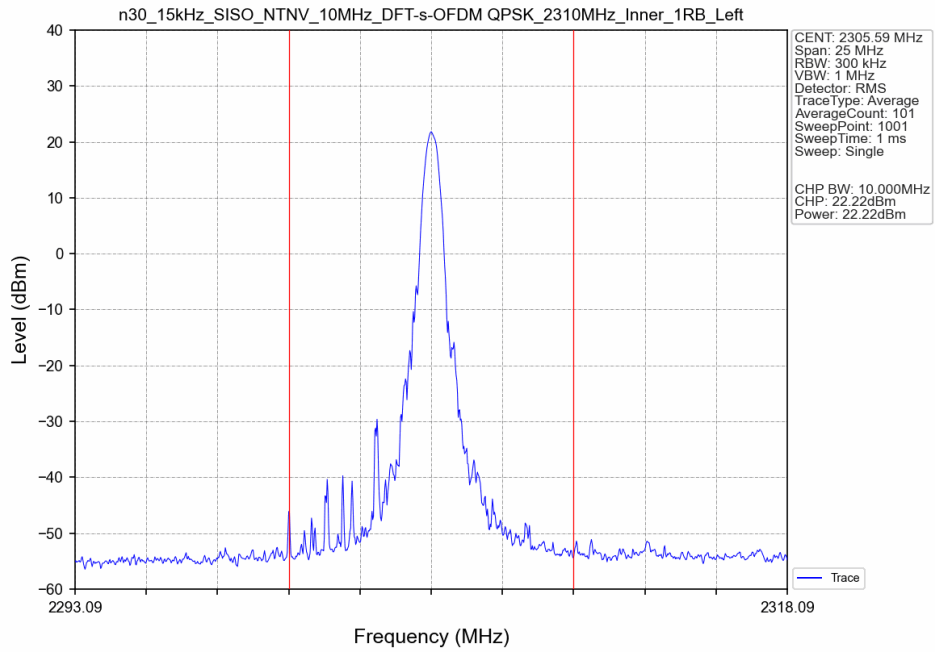
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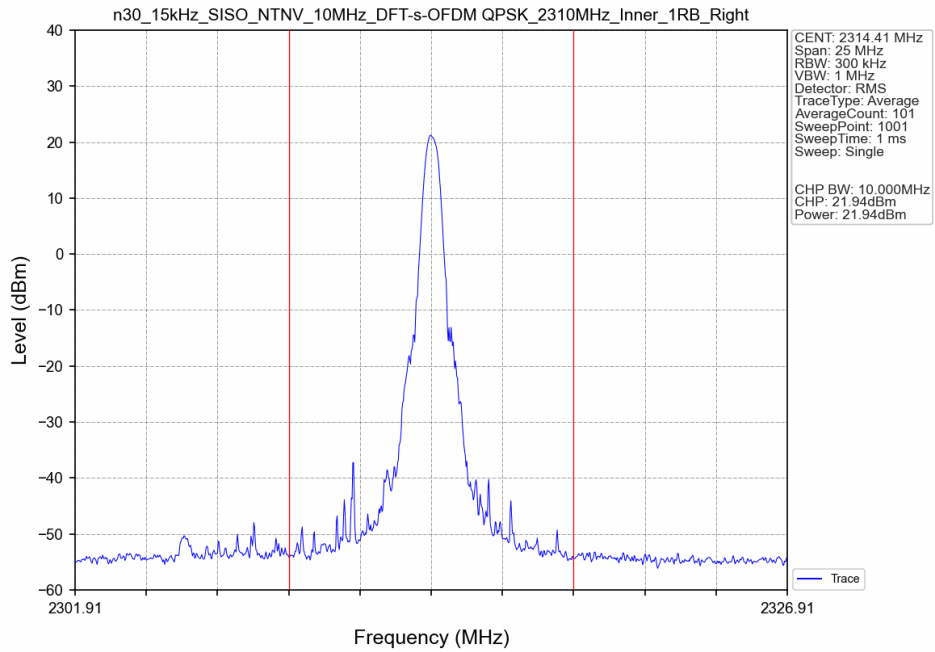
n30\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_QPSK\_2310MHz\_Inner\_Full\_Ant6



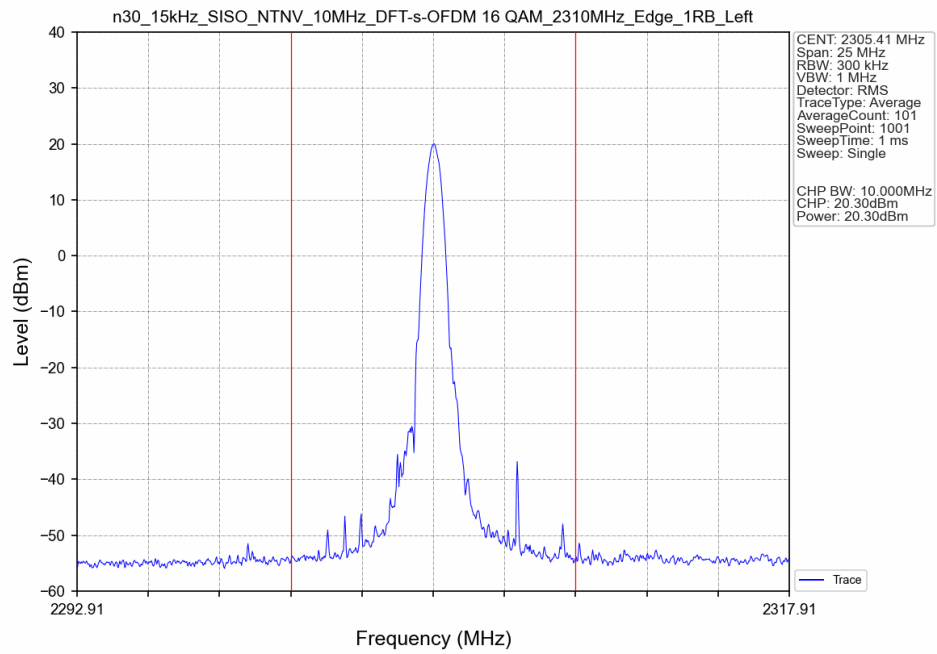
n30 15kHz SISO NTN 10MHz DFT-s-OFDM QPSK 2310MHz Inner 1RB Left Ant6



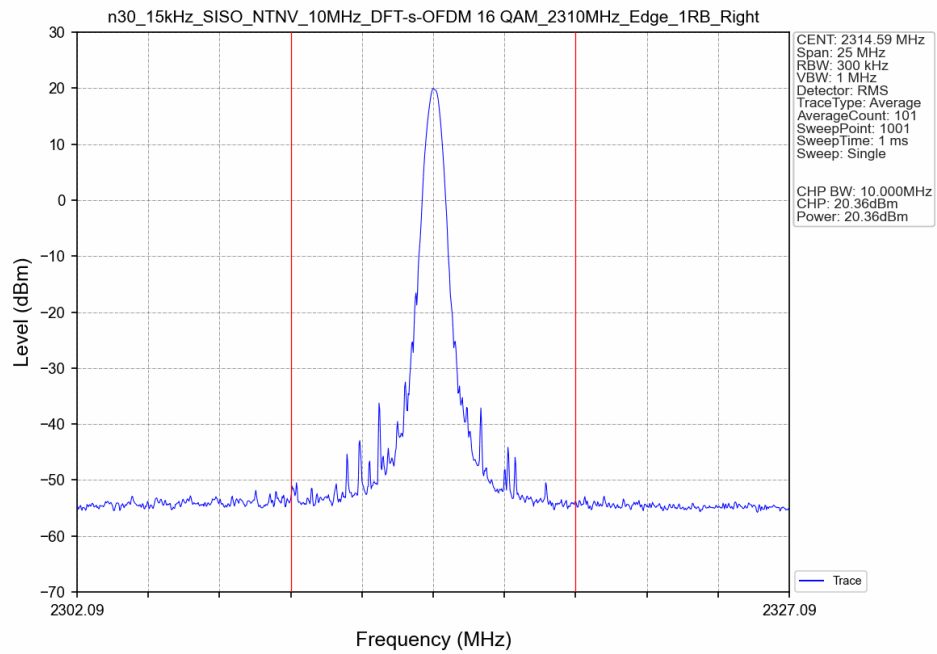
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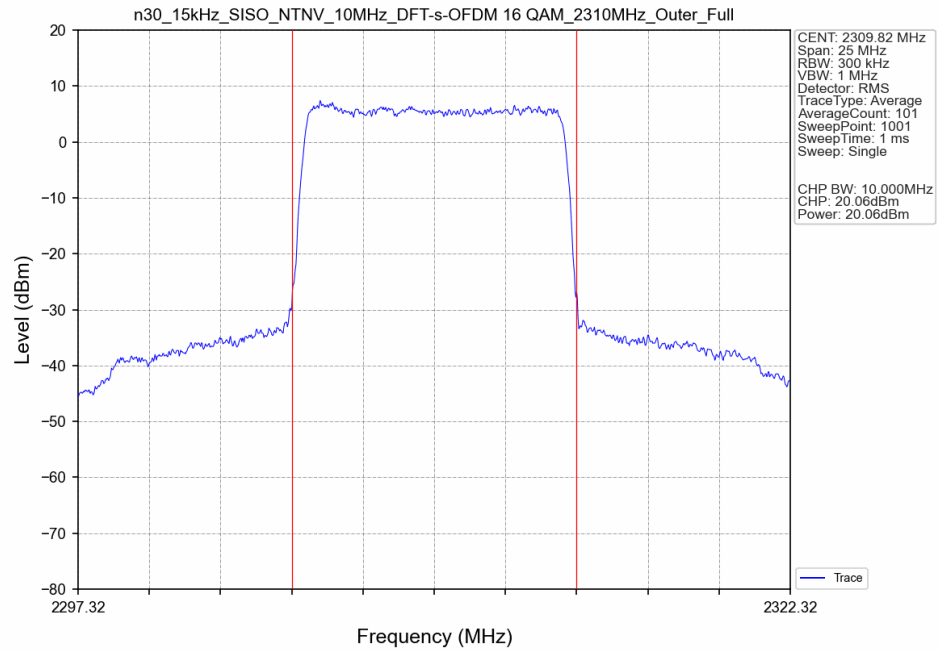
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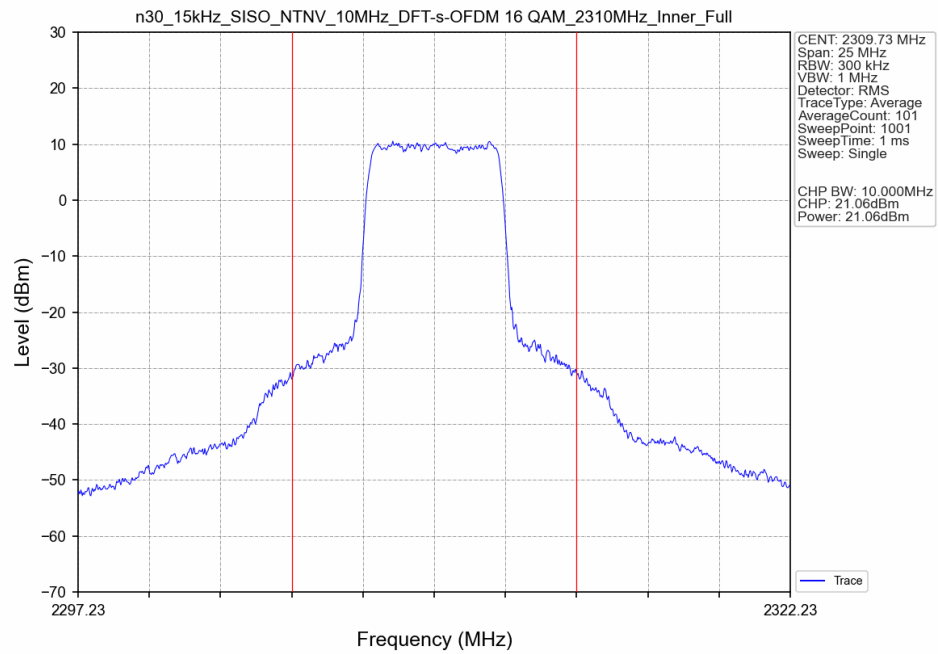
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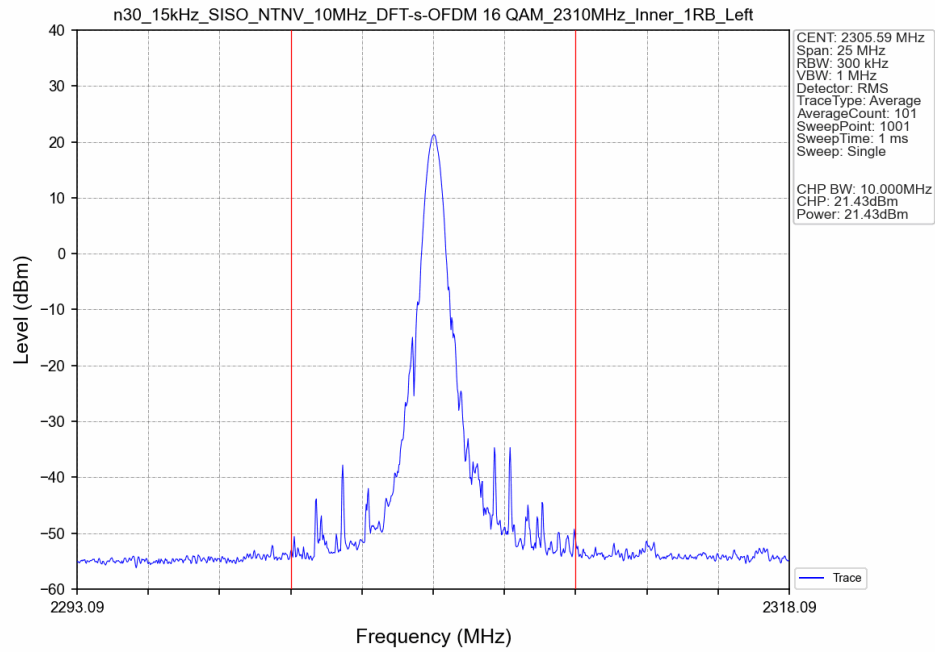
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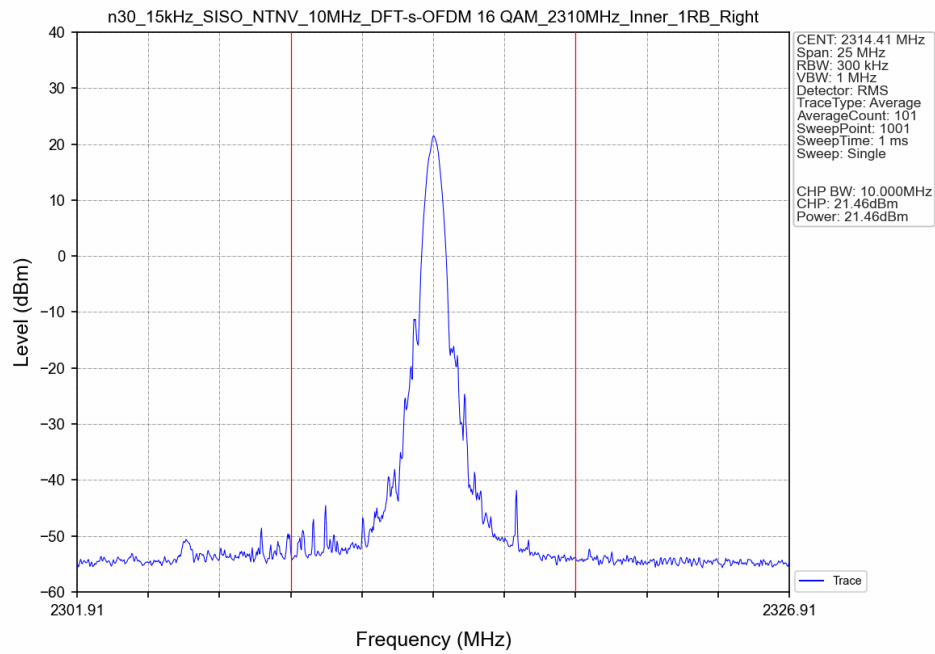
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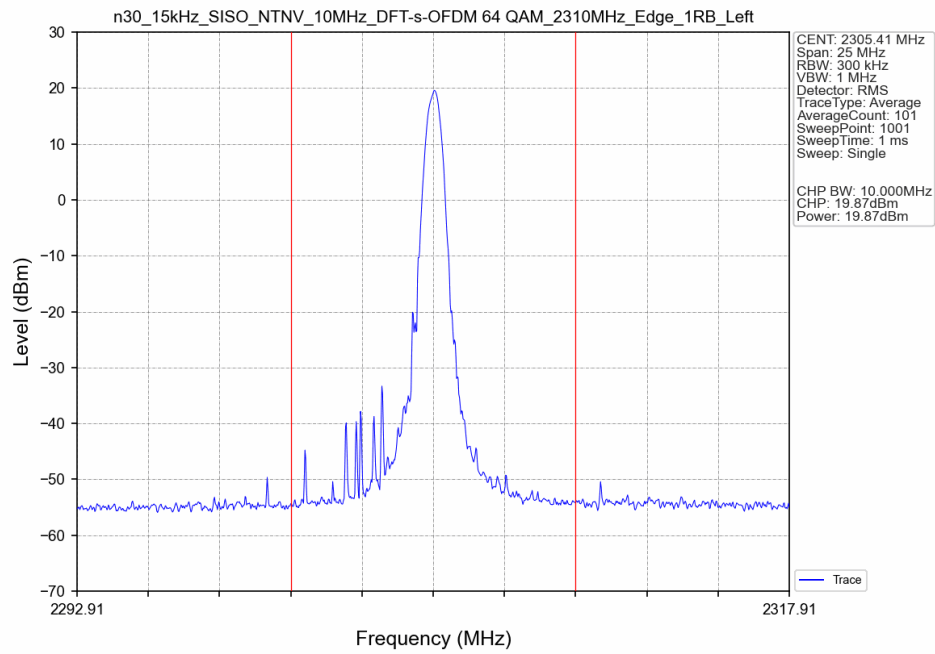
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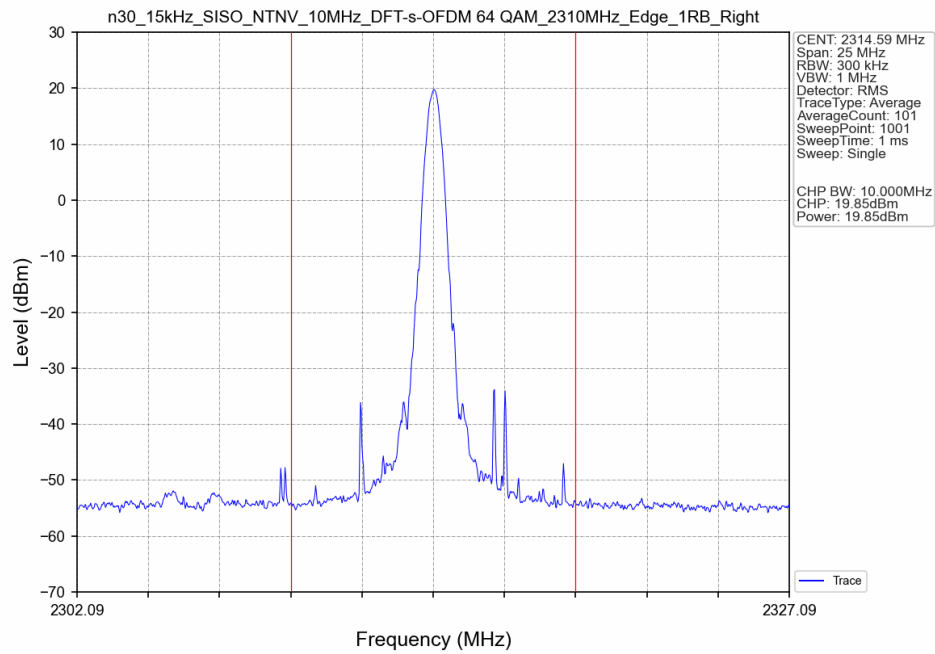
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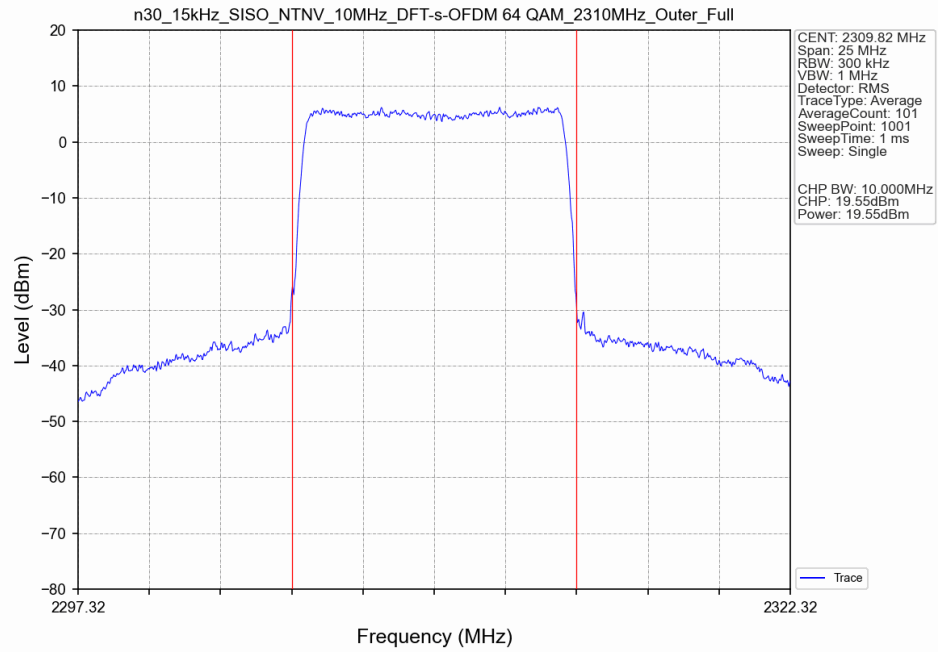
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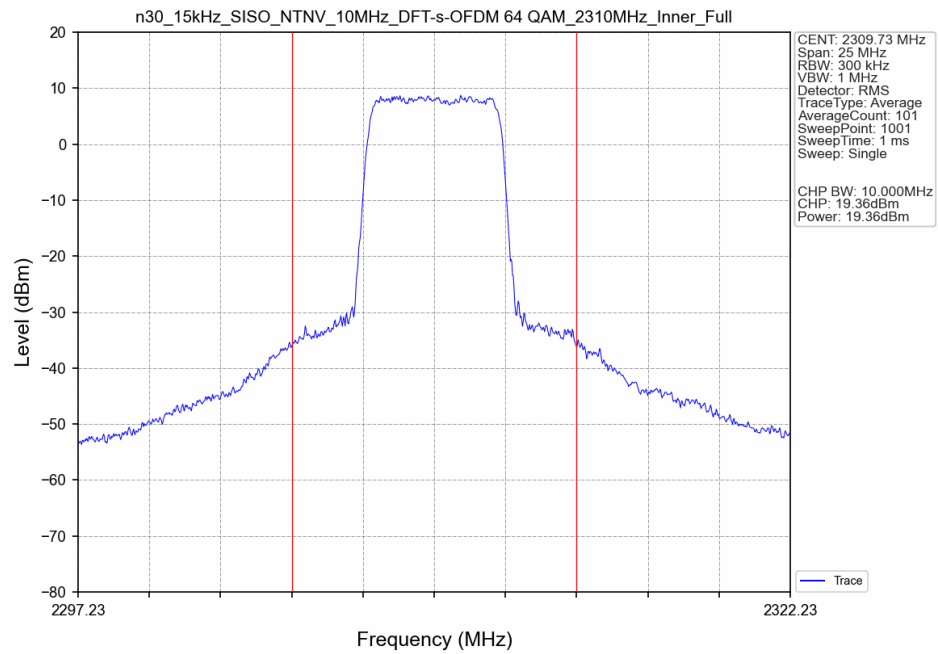
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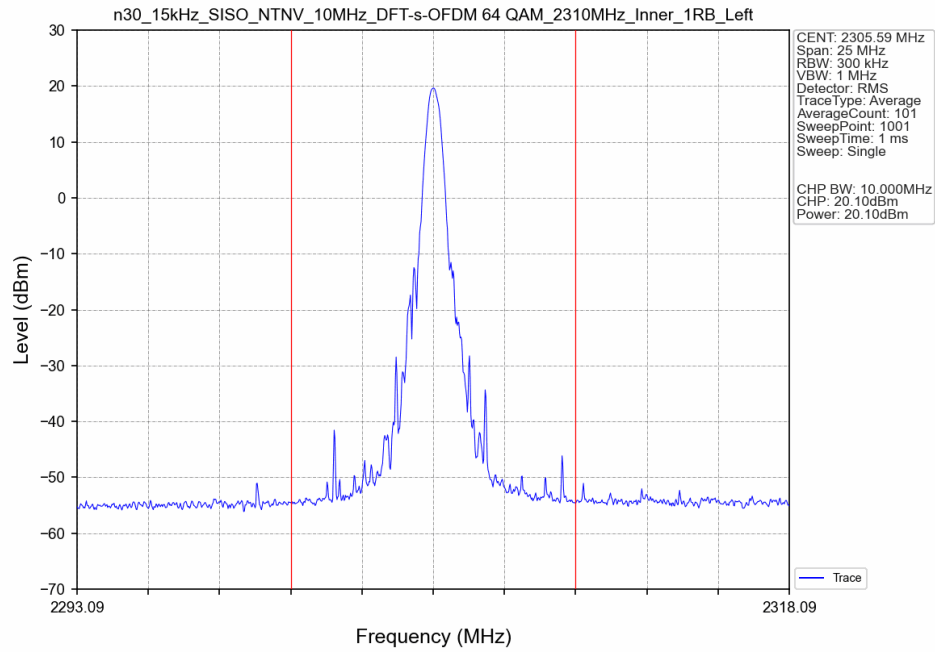
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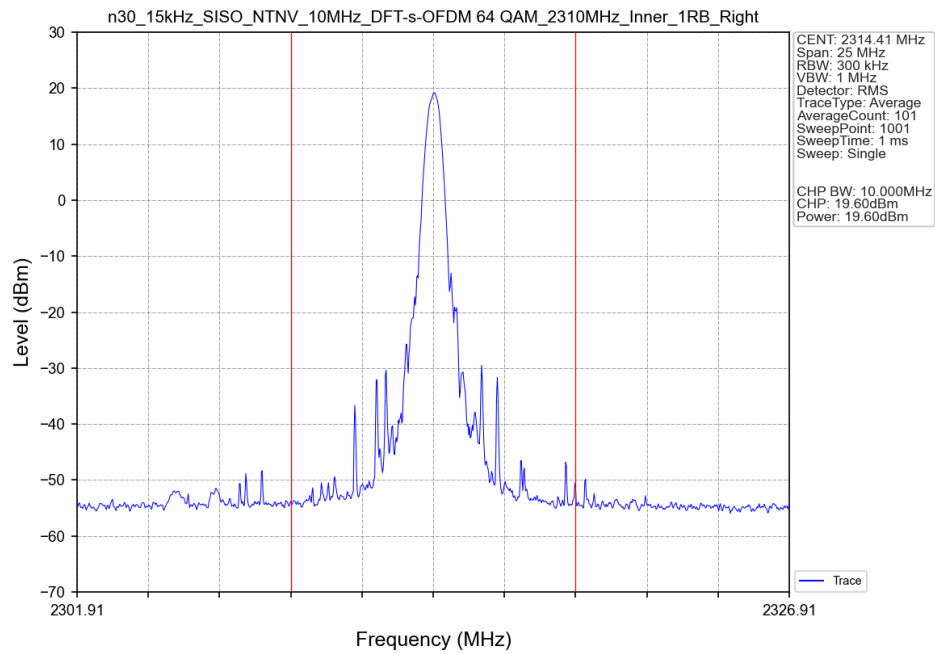
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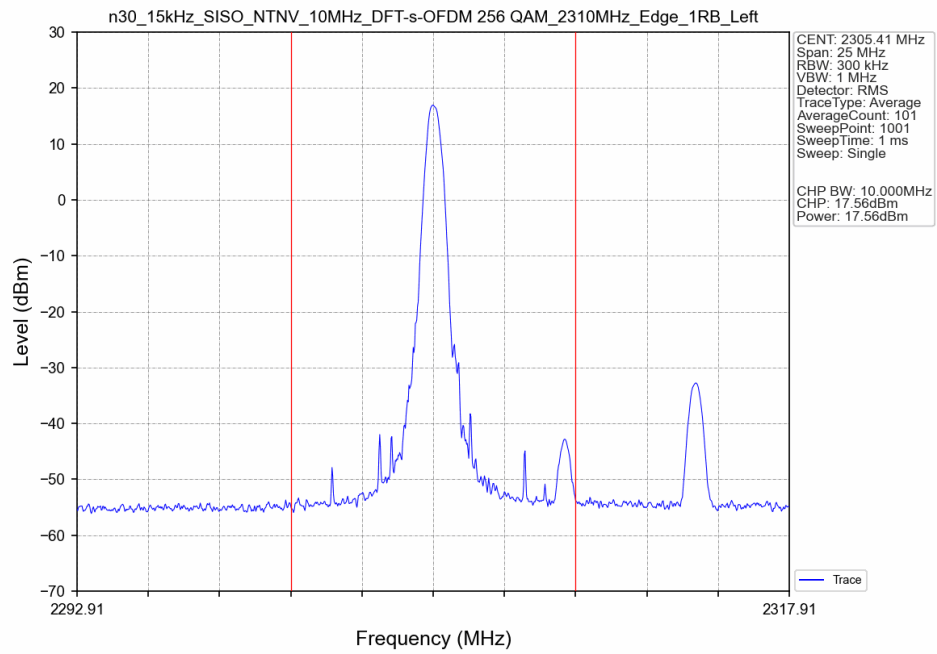
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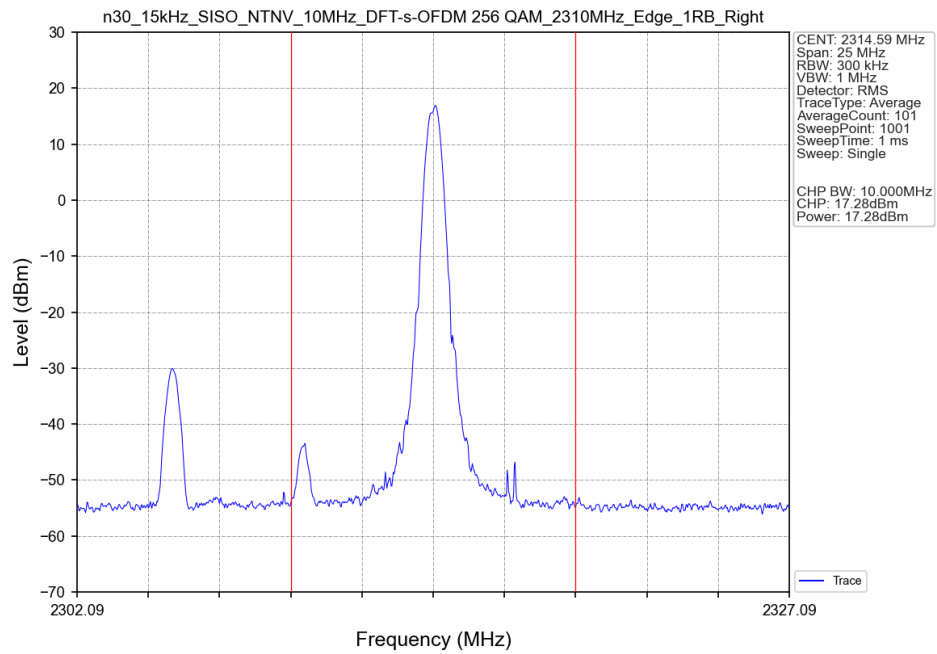
n30\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_64\_QAM\_2310MHz\_Inner\_1RB\_Right\_Ant6



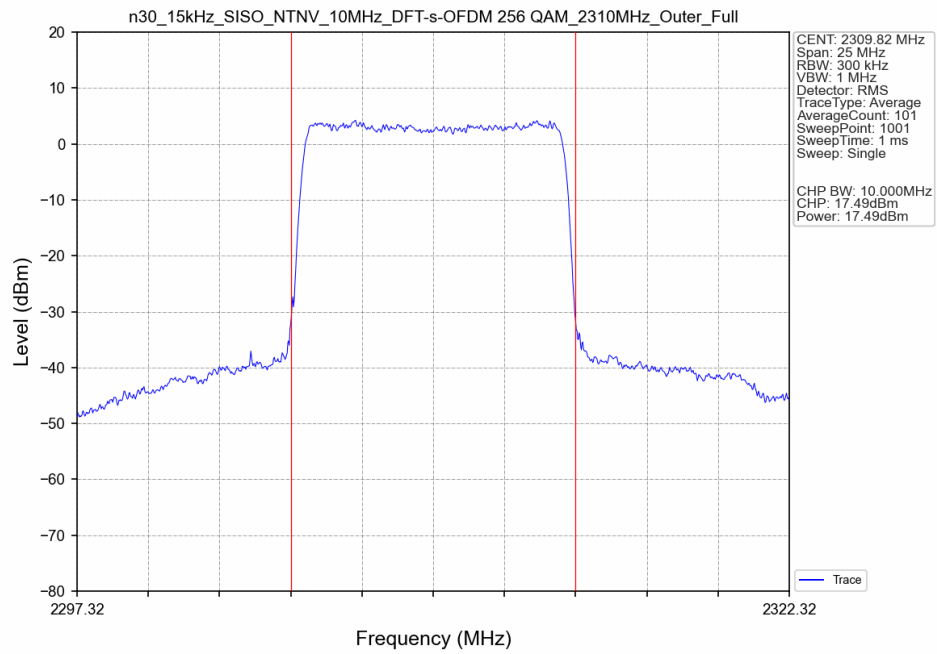
n30\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_2310MHz\_Edge\_1RB\_Left\_Ant6



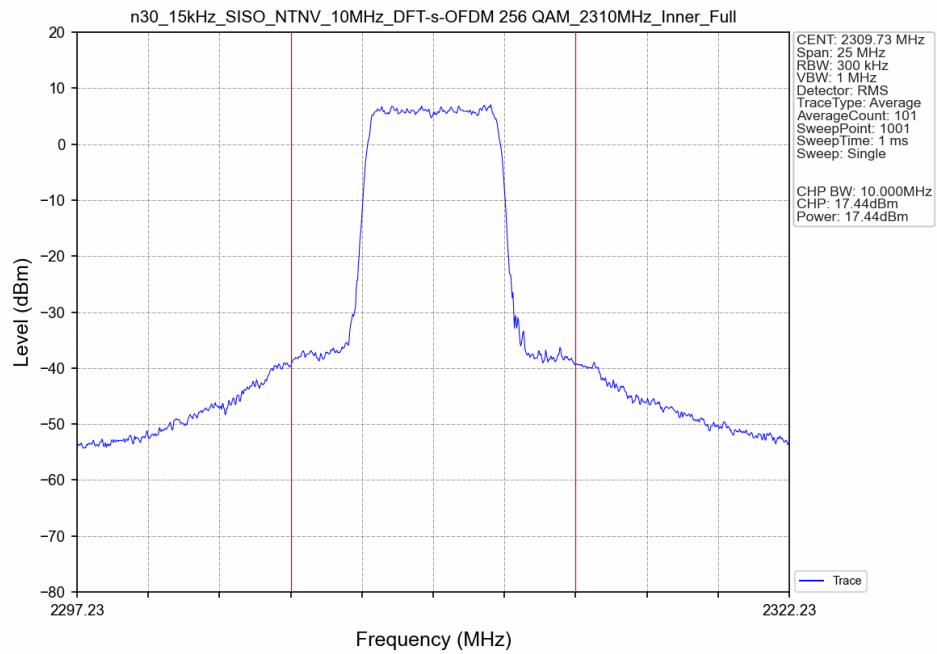
n30\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_2310MHz\_Edge\_1RB\_Right\_Ant6



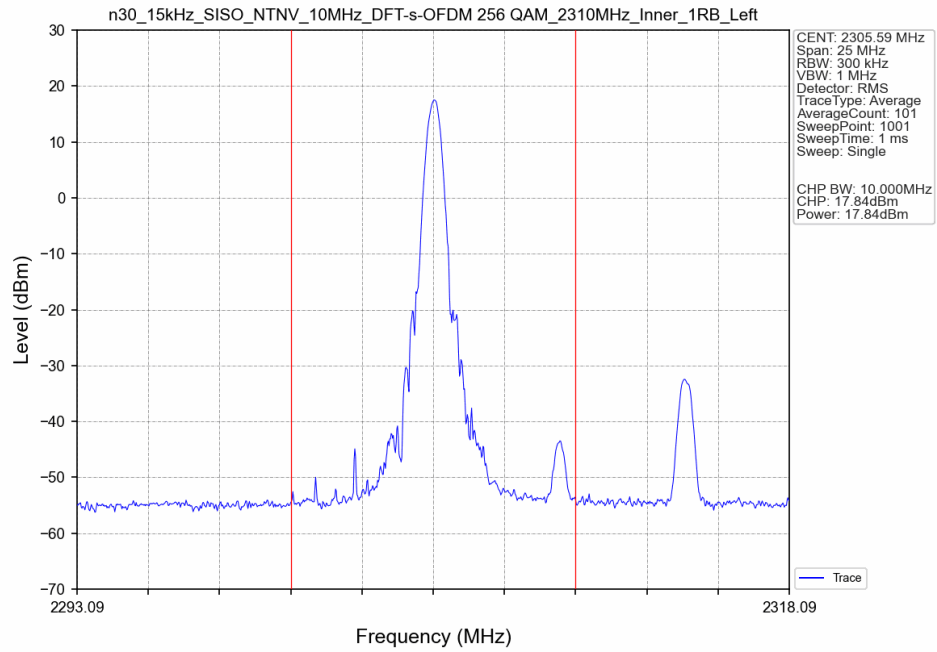
n30\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_2310MHz\_Outer\_Full\_Ant6



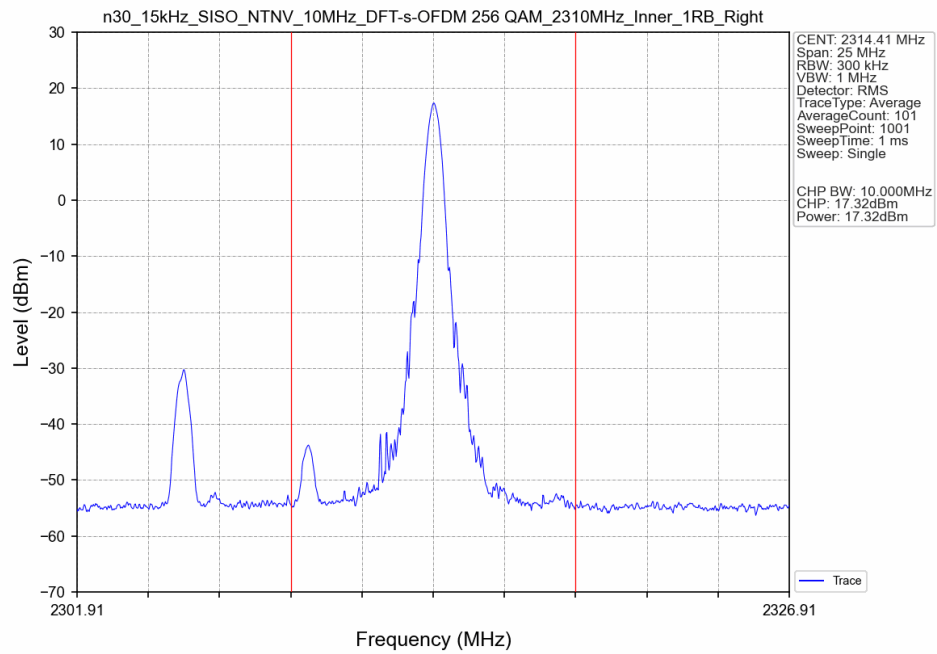
n30\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_2310MHz\_Inner\_Full\_Ant6



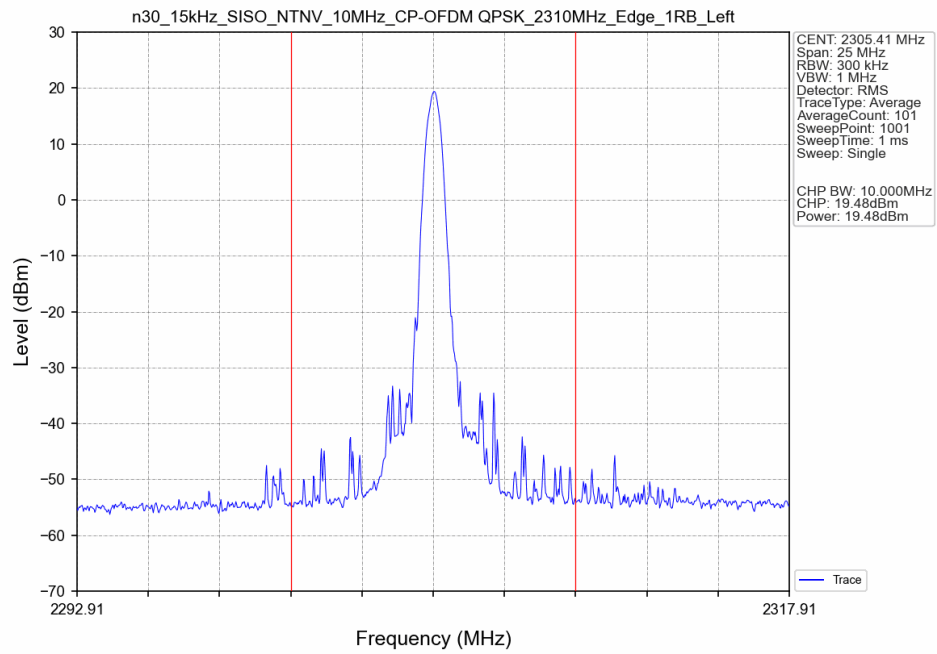
n30\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_2310MHz\_Inner\_1RB\_Left\_Ant6



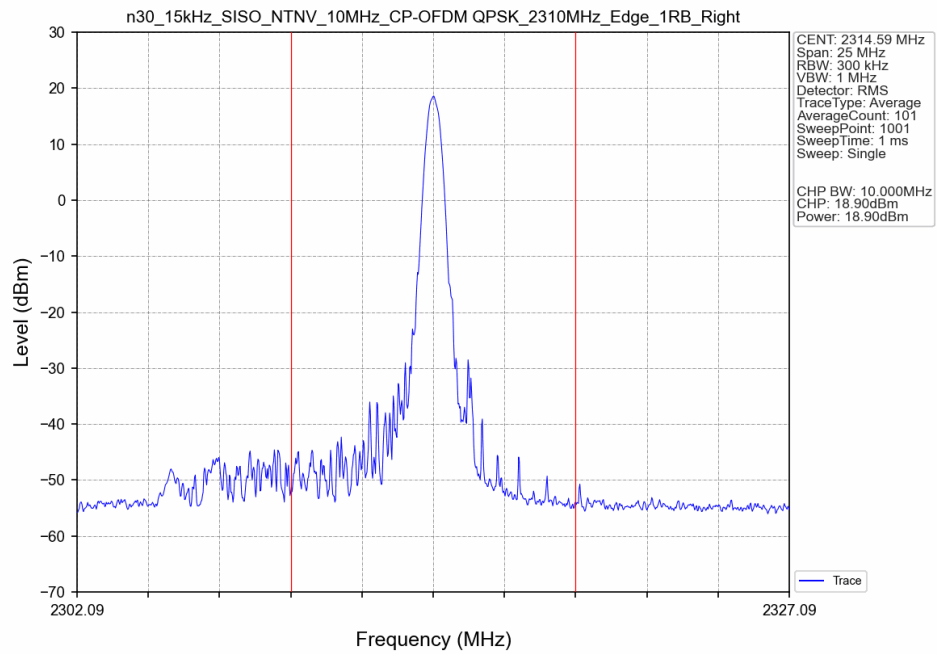
n30\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_2310MHz\_Inner\_1RB\_Right\_Ant6



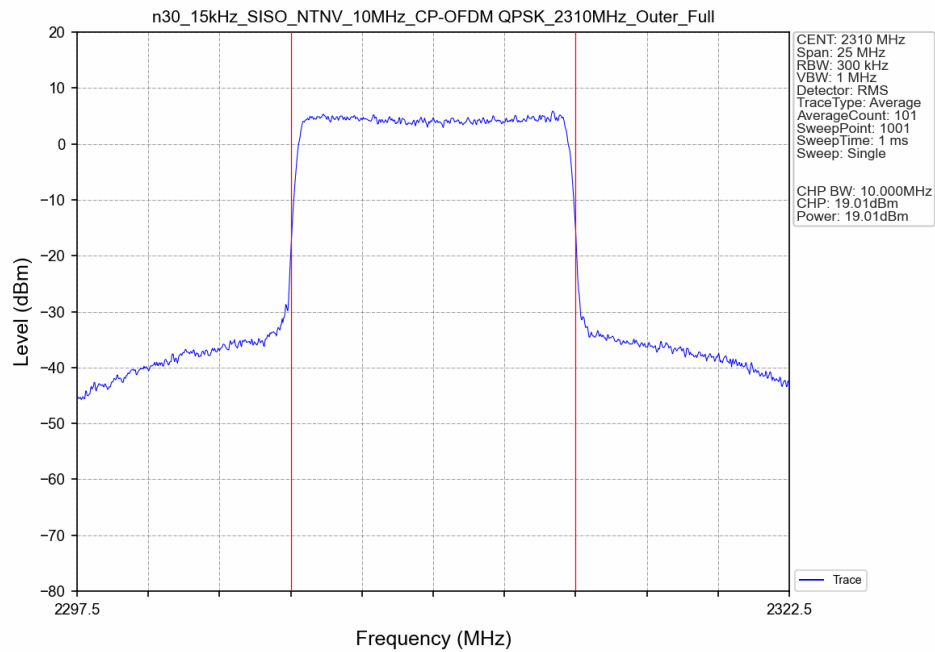
n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_2310MHz\_Edge\_1RB\_Left\_Ant6



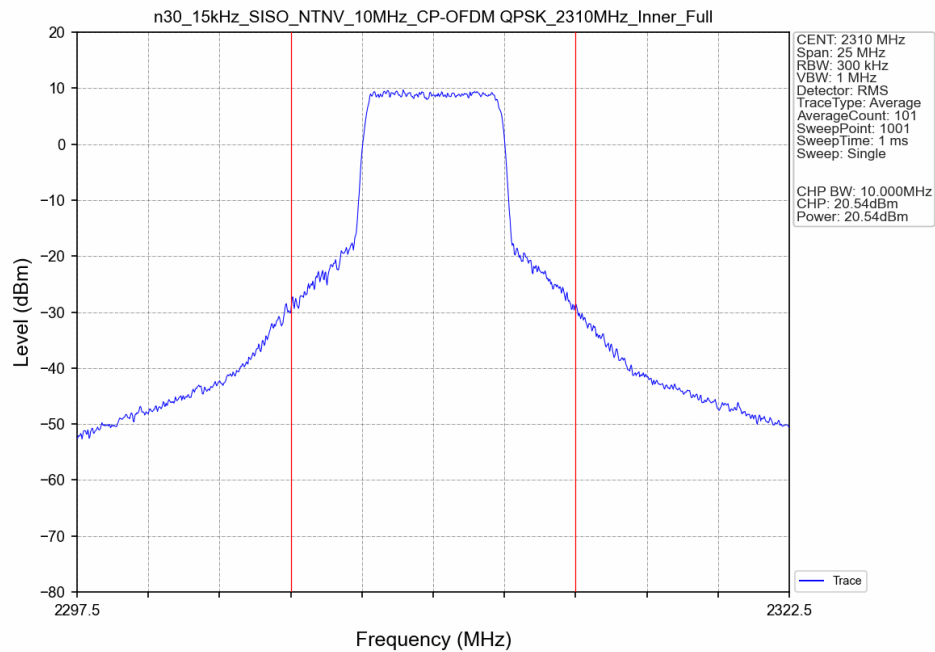
n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_2310MHz\_Edge\_1RB\_Right\_Ant6



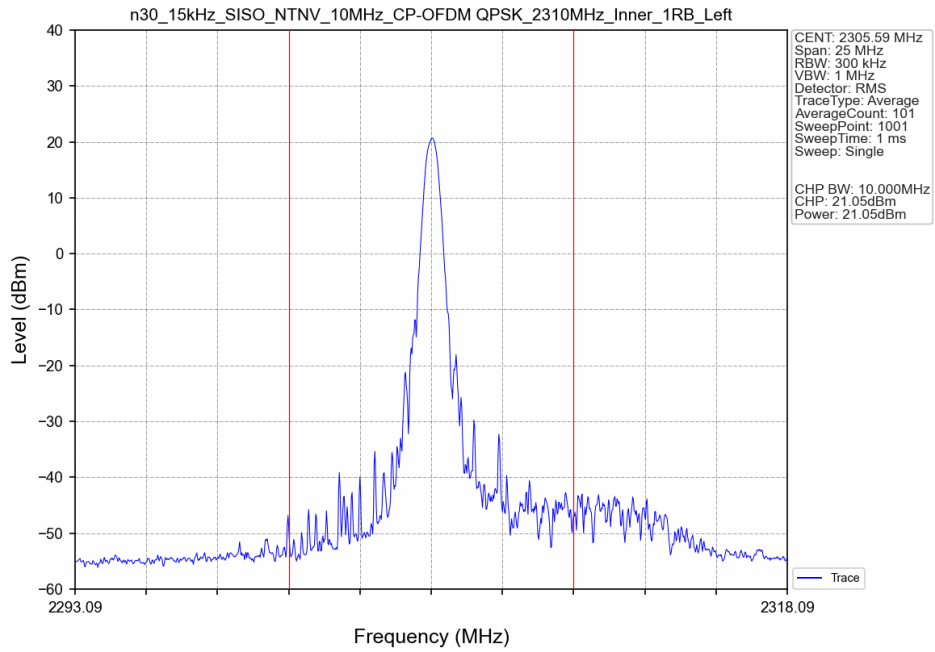
n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_2310MHz\_Outer\_Full\_Ant6



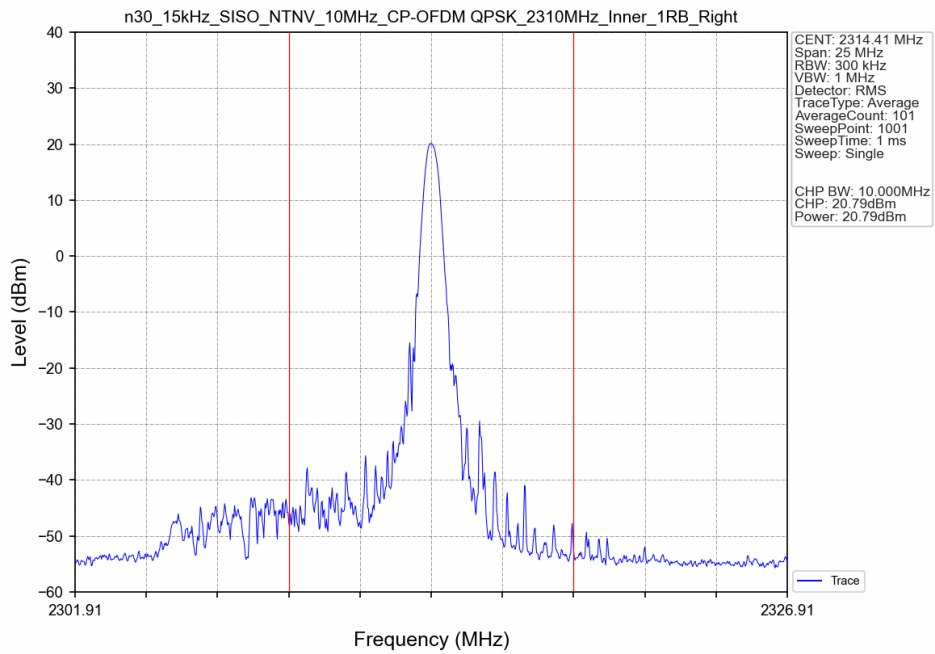
n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_2310MHz\_Inner\_Full\_Ant6



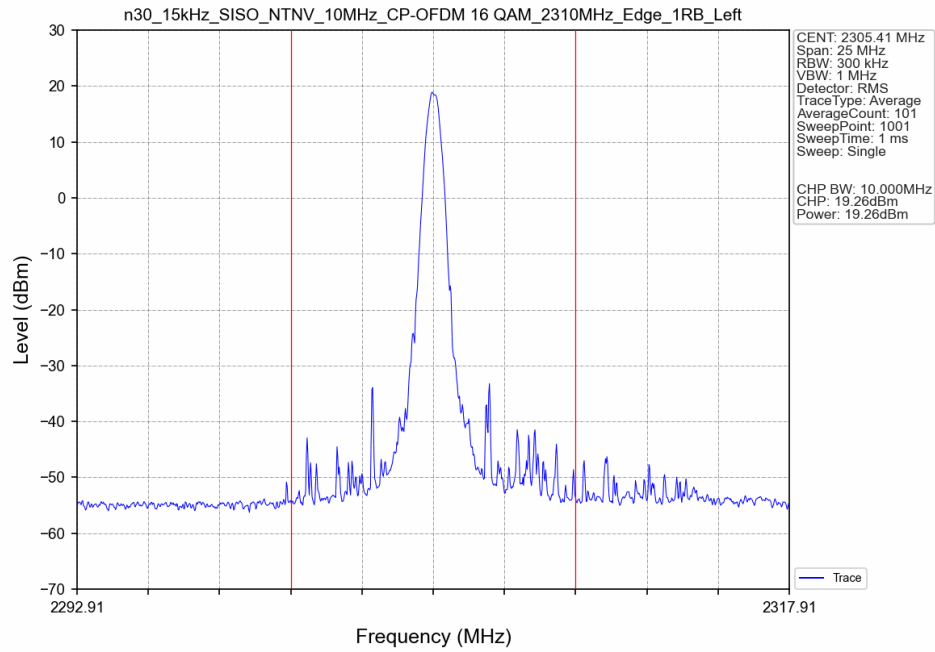
n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_2310MHz\_Inner\_1RB\_Left\_Ant6



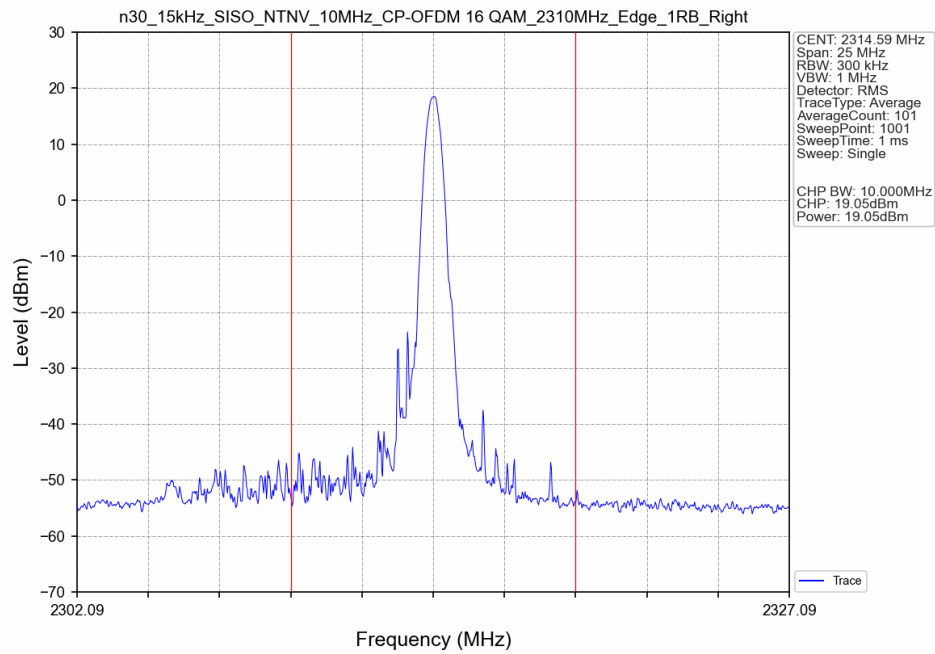
n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_2310MHz\_Inner\_1RB\_Right\_Ant6



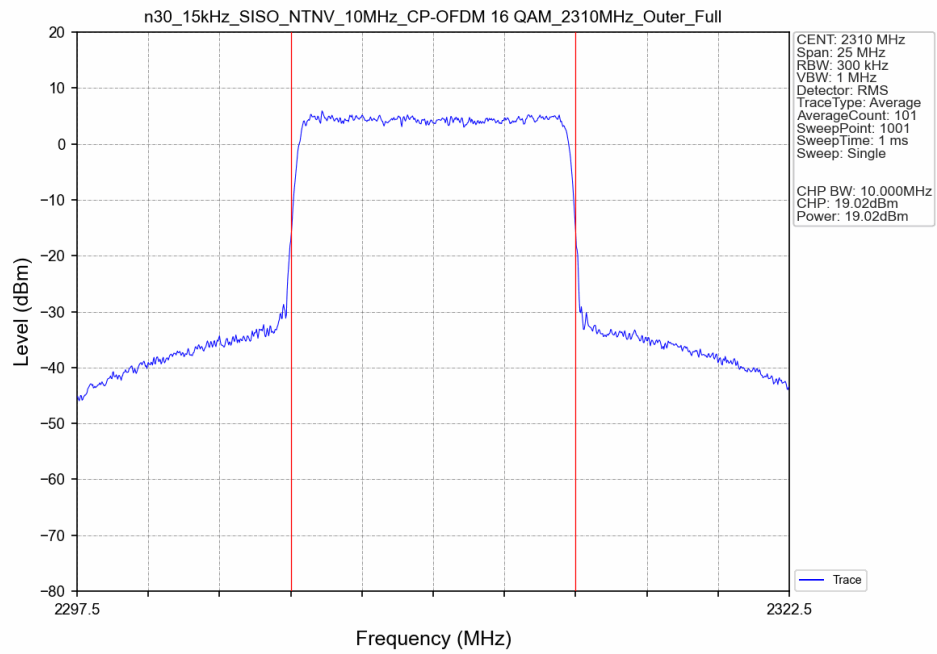
n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_16\_QAM\_2310MHz\_Edge\_1RB\_Left\_Ant6



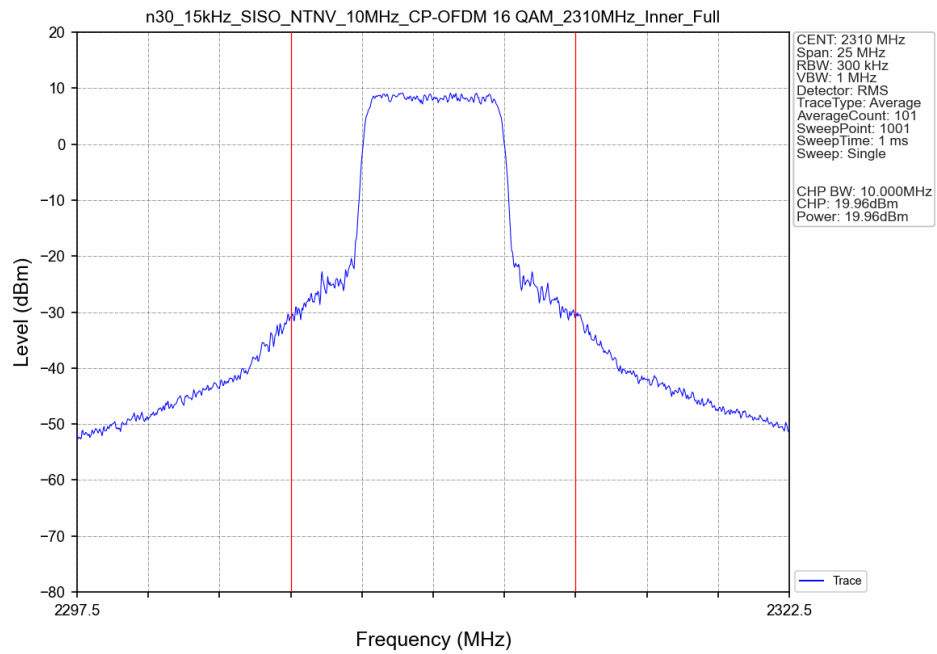
n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_16\_QAM\_2310MHz\_Edge\_1RB\_Right\_Ant6



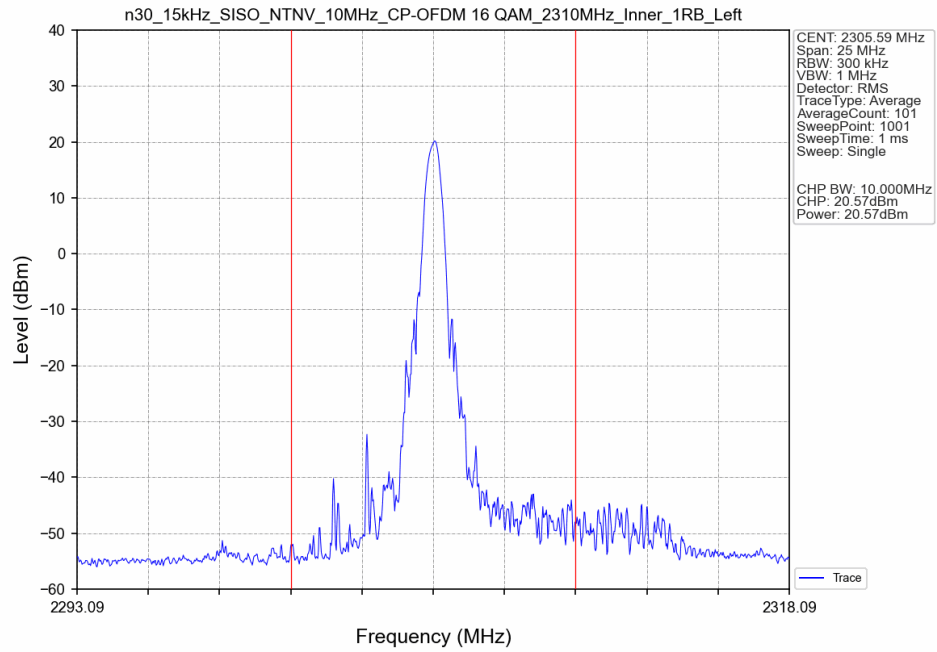
n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_16\_QAM\_2310MHz\_Outer\_Full\_Ant6



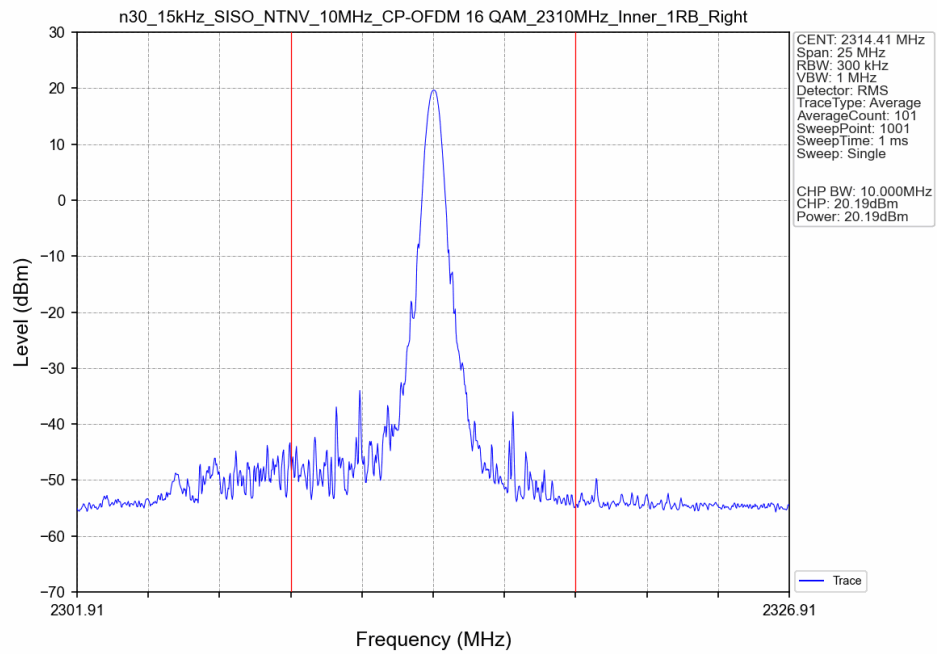
n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_16\_QAM\_2310MHz\_Inner\_Full\_Ant6



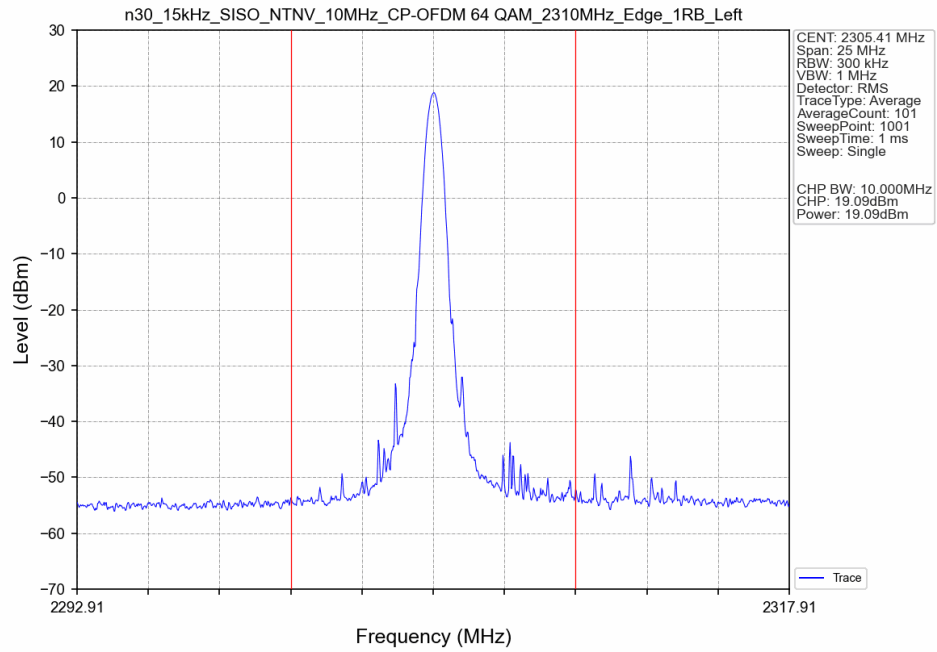
n30 15kHz SISO NTN 10MHz CP-OFDM 16 QAM 2310MHz Inner 1RB Left Ant6



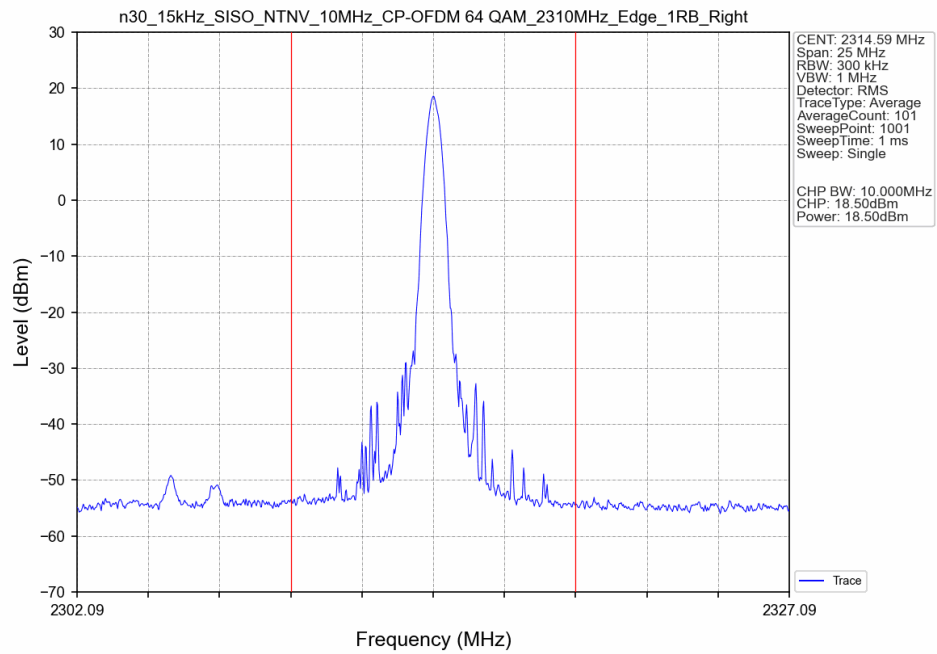
n30 15kHz SISO NTN 10MHz CP-OFDM 16 QAM 2310MHz Inner 1RB Right Ant6



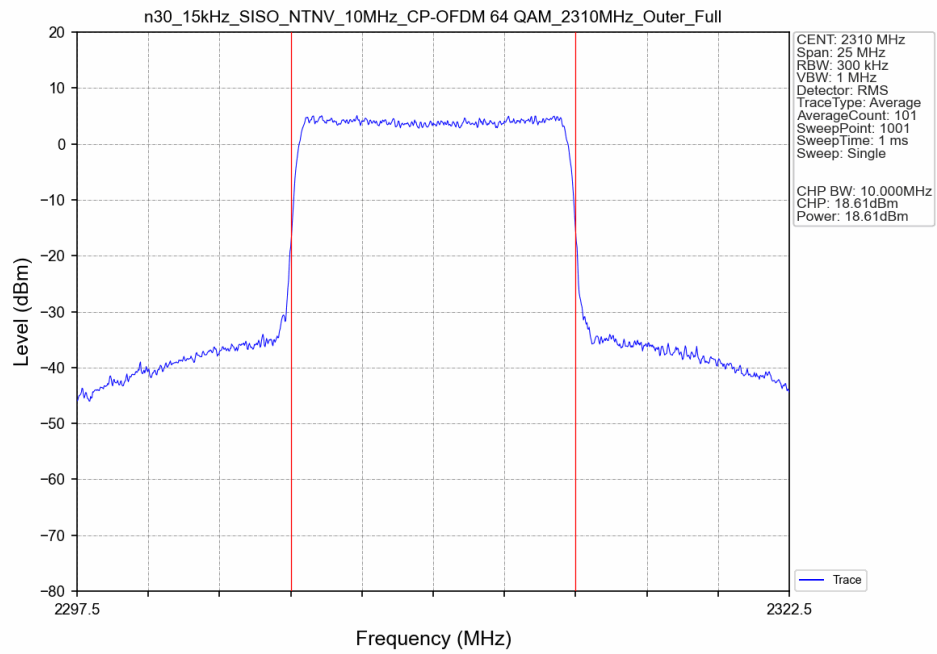
n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_64\_QAM\_2310MHz\_Edge\_1RB\_Left\_Ant6



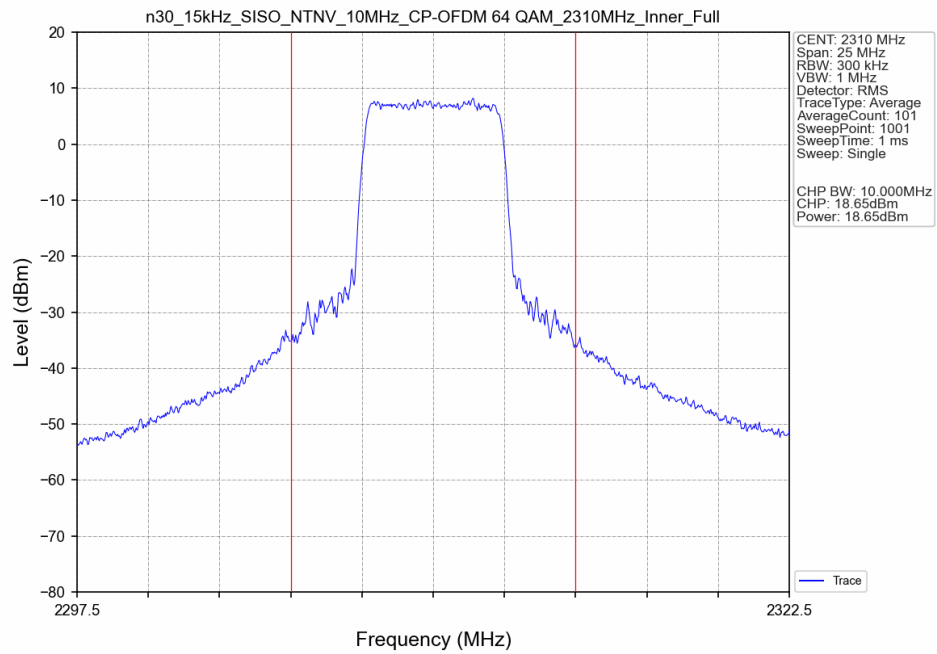
n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_64\_QAM\_2310MHz\_Edge\_1RB\_Right\_Ant6



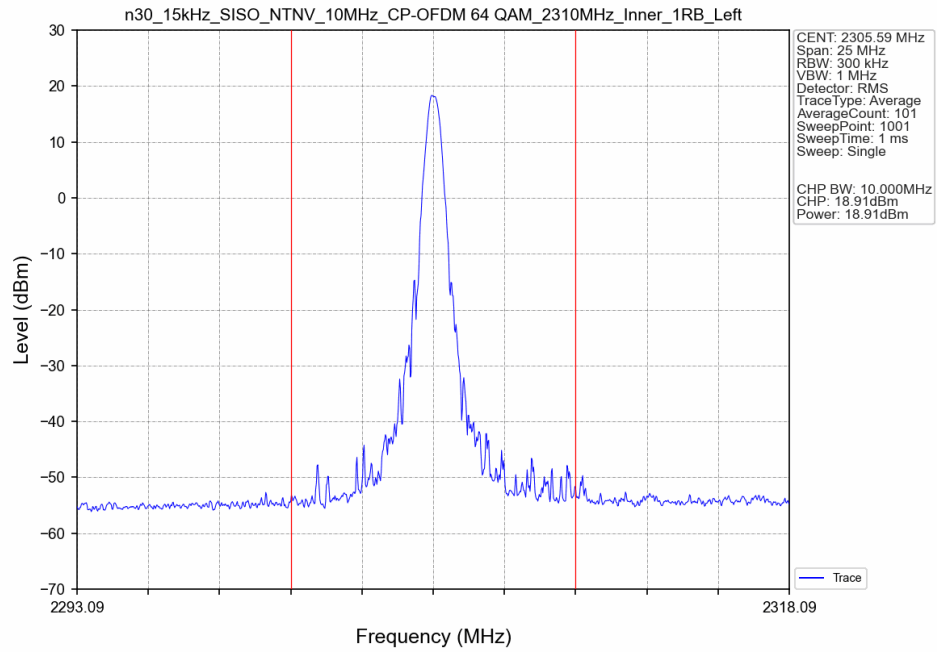
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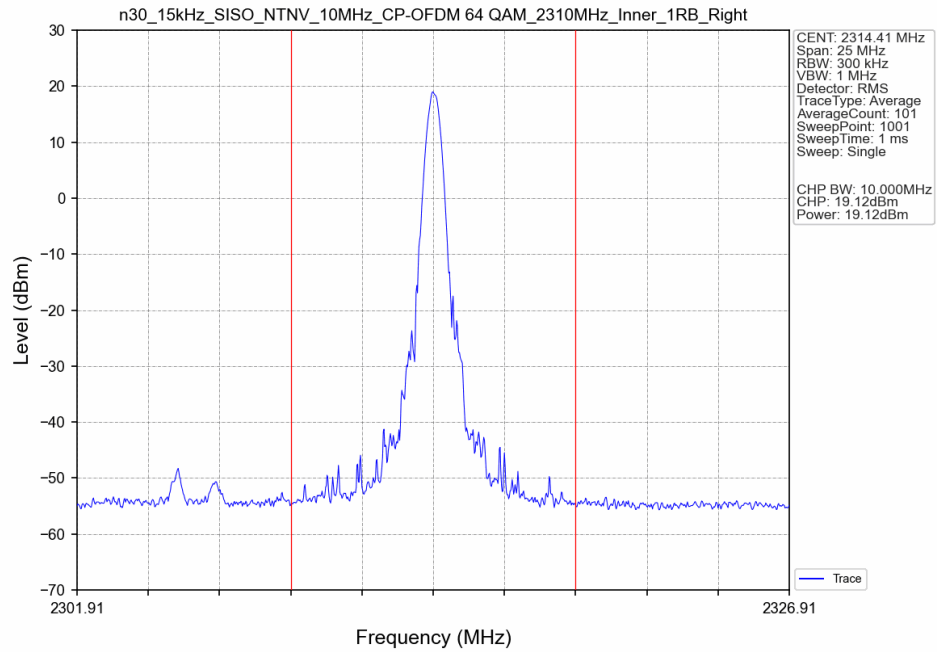
n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM 2310MHz\_Inner\_Full\_Ant6



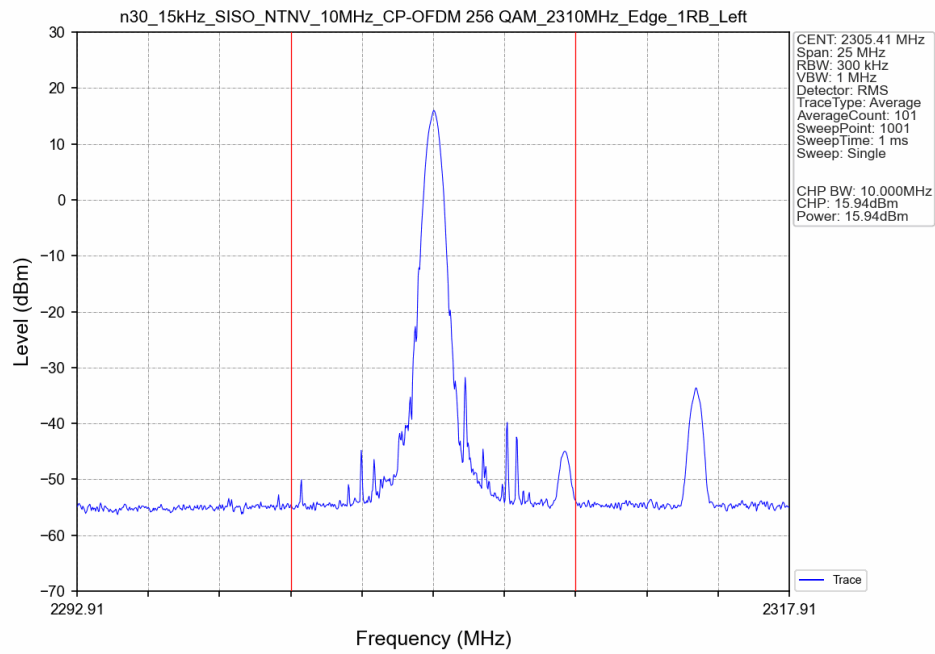
n30 15kHz SISO NTN 10MHz CP-OFDM 64 QAM 2310MHz Inner 1RB Left Ant6



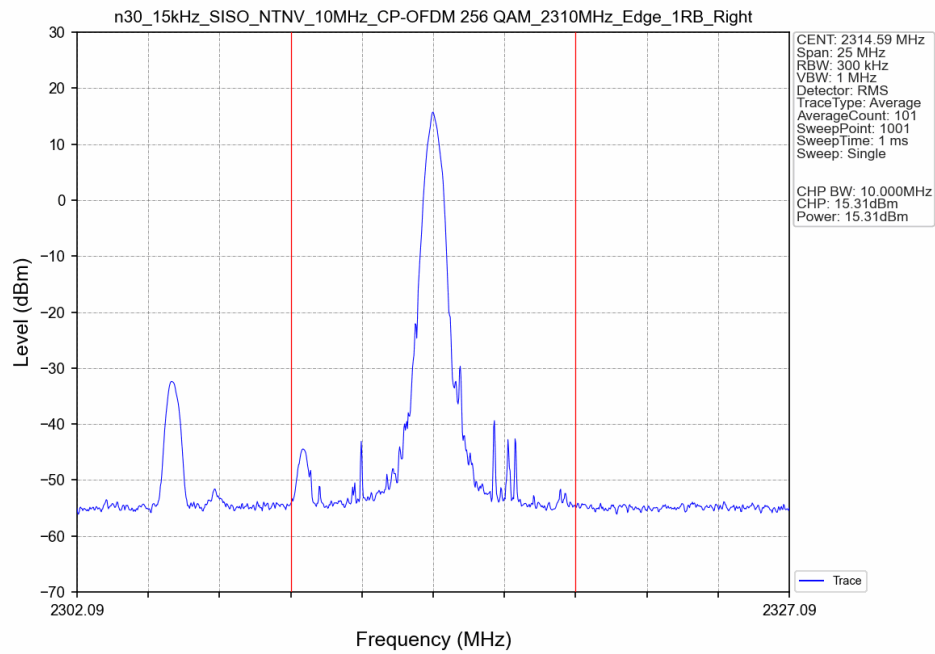
n30 15kHz SISO NTN 10MHz CP-OFDM 64 QAM 2310MHz Inner 1RB Right Ant6



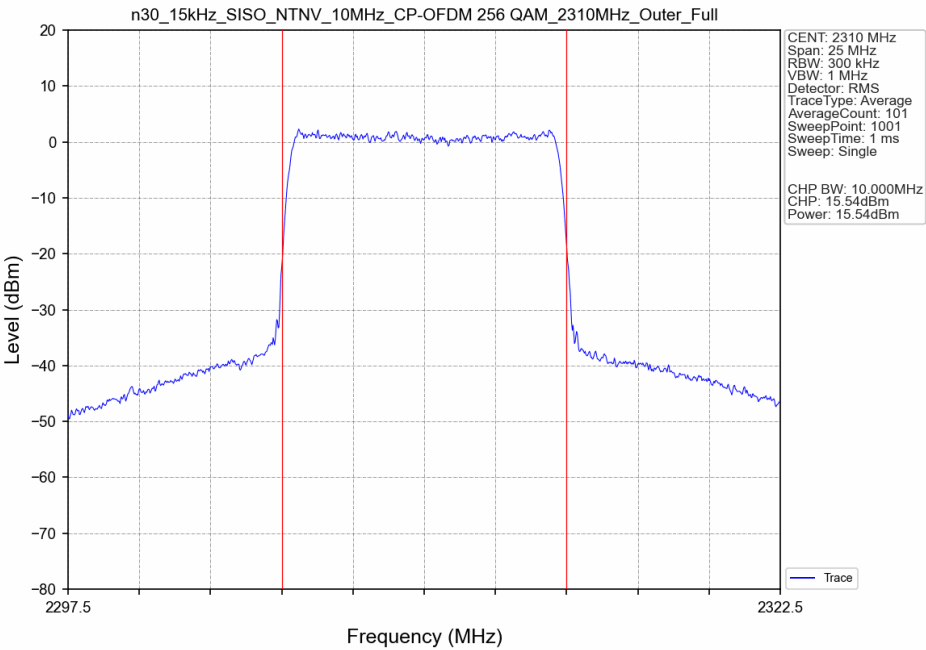
n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_256\_QAM\_2310MHz\_Edge\_1RB\_Left\_Ant6



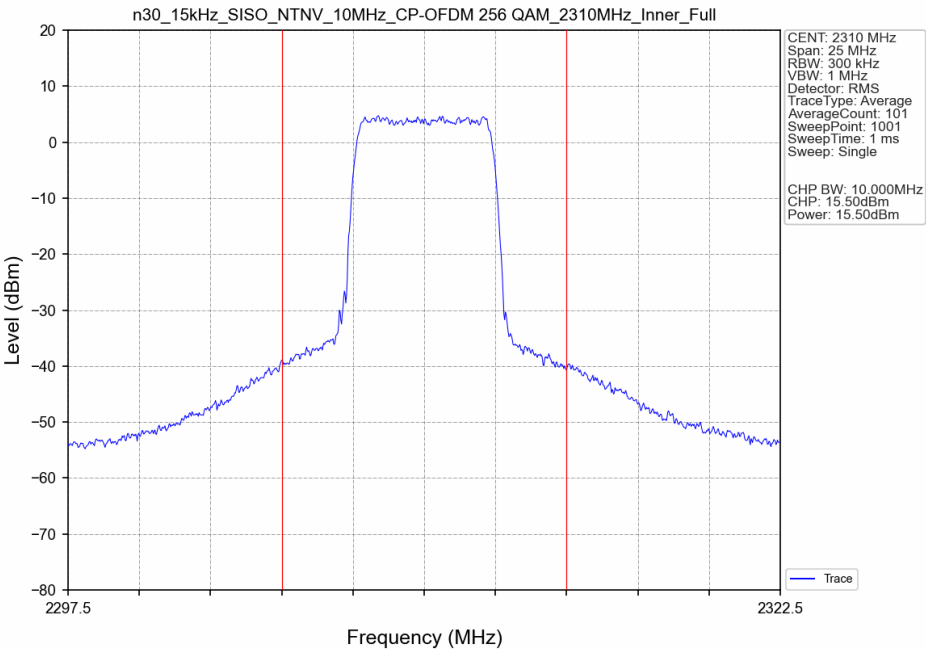
n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_256\_QAM\_2310MHz\_Edge\_1RB\_Right\_Ant6



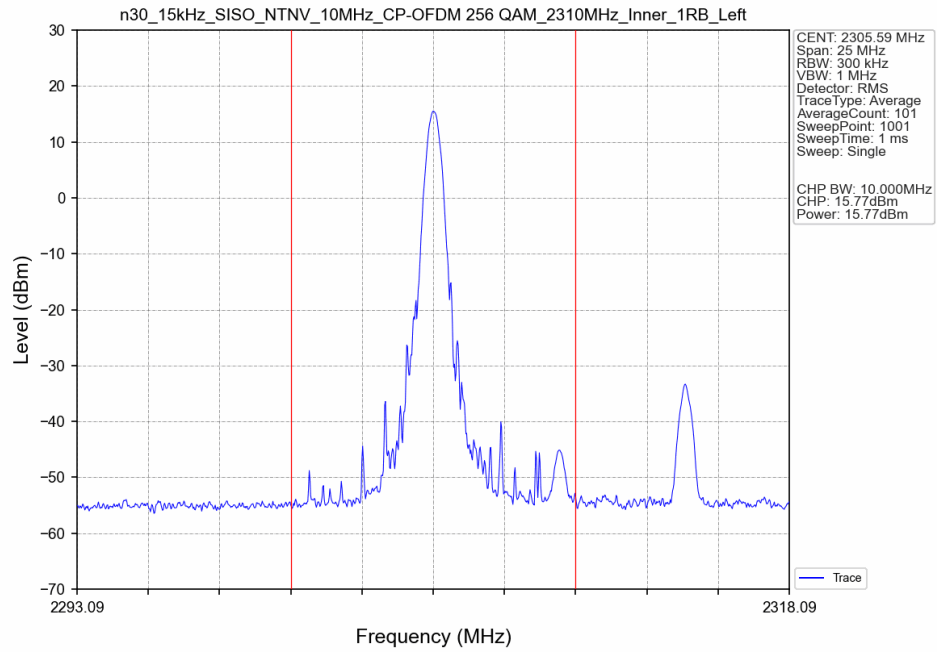
n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_256\_QAM\_2310MHz\_Outer\_Full\_Ant6



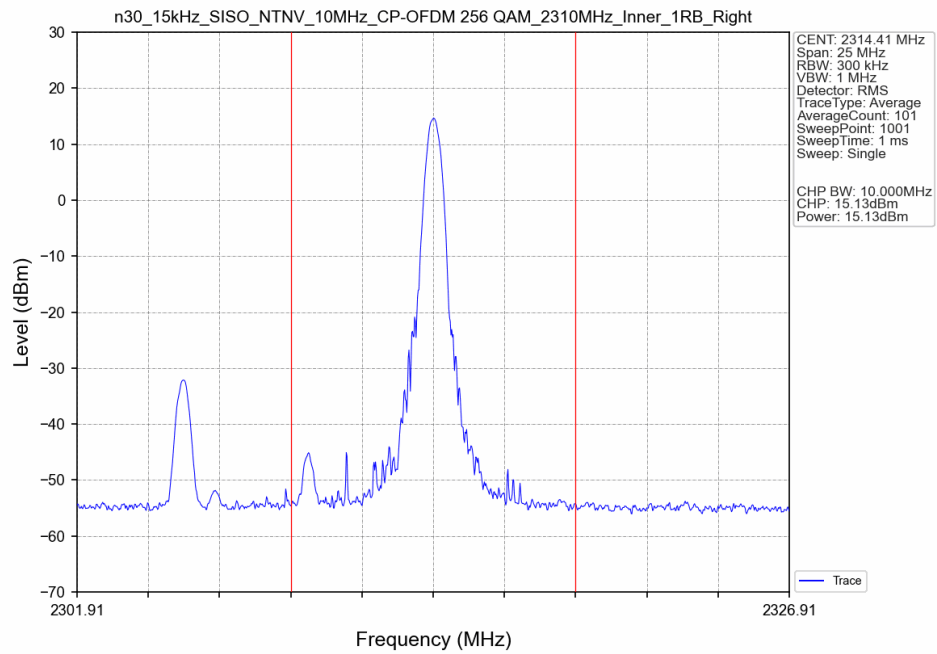
n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_256\_QAM\_2310MHz\_Inner\_Full\_Ant6



n30 15kHz SISO NTN 10MHz CP-OFDM 256 QAM 2310MHz Inner 1RB Left Ant6



n30 15kHz SISO NTN 10MHz CP-OFDM 256 QAM 2310MHz Inner 1RB Right Ant6



## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 15\_S\_10M

| 5G NR n30 SCS=15kHz SISO 10MHz |                 |               |            |       |                  |                       |                |         |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM QPSK                | 2310            | Outer_Full    | 20         | LV    | -5.79            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -1.78            | -0.0008               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -5.72            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -3.64            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -1.77            | -0.0008               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -1.24            | -0.0005               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -5.87            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -4.46            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -1.81            | -0.0008               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -4.92            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 50         | NV    | -2.21            | -0.0010               | >=-2.5 & <=2.5 | Pass    |

## 3. 99% & 26dB Bandwidth

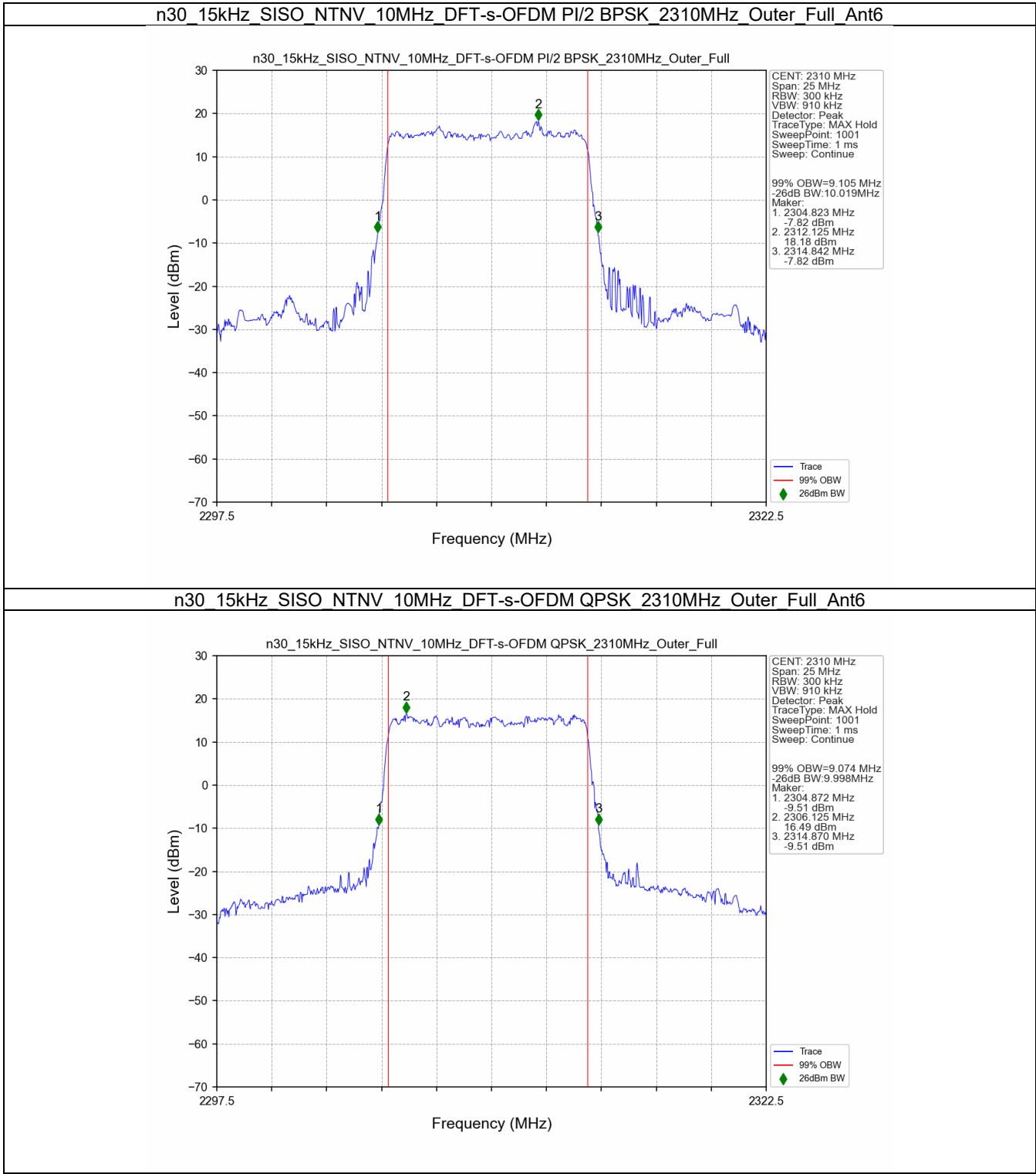
### 3.1 Test Result

#### 3.1.1 15\_S\_10M\_NTNV

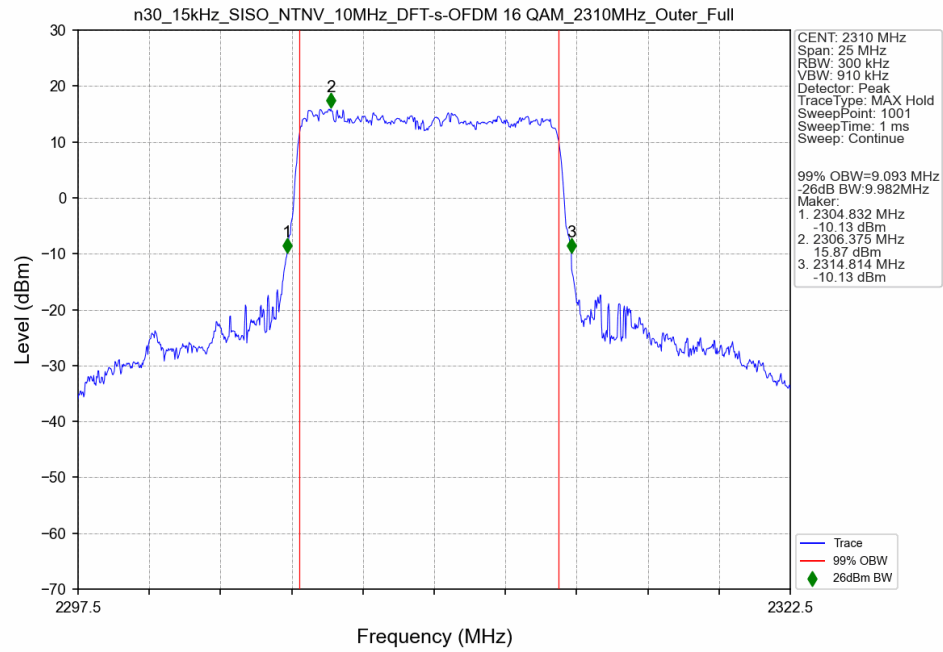
| 5G NR n30 SCS=15kHz SISO 10MHz NTN |                 |               |                     |                      |             |         |
|------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK               | 2310            | Outer_Full    | 9.11                | 10.02                | /           | Pass    |
| DFT-s-OFDM QPSK                    | 2310            | Outer_Full    | 9.07                | 10.00                | /           | Pass    |
| DFT-s-OFDM 16 QAM                  | 2310            | Outer_Full    | 9.09                | 9.98                 | /           | Pass    |
| DFT-s-OFDM 64 QAM                  | 2310            | Outer_Full    | 9.07                | 10.08                | /           | Pass    |
| DFT-s-OFDM 256 QAM                 | 2310            | Outer_Full    | 9.05                | 9.95                 | /           | Pass    |
| CP-OFDM QPSK                       | 2310            | Outer_Full    | 9.40                | 10.37                | /           | Pass    |
| CP-OFDM 16 QAM                     | 2310            | Outer_Full    | 9.40                | 10.39                | /           | Pass    |
| CP-OFDM 64 QAM                     | 2310            | Outer_Full    | 9.44                | 10.59                | /           | Pass    |
| CP-OFDM 256 QAM                    | 2310            | Outer_Full    | 9.42                | 10.77                | /           | Pass    |

### 3.2 Test Graph

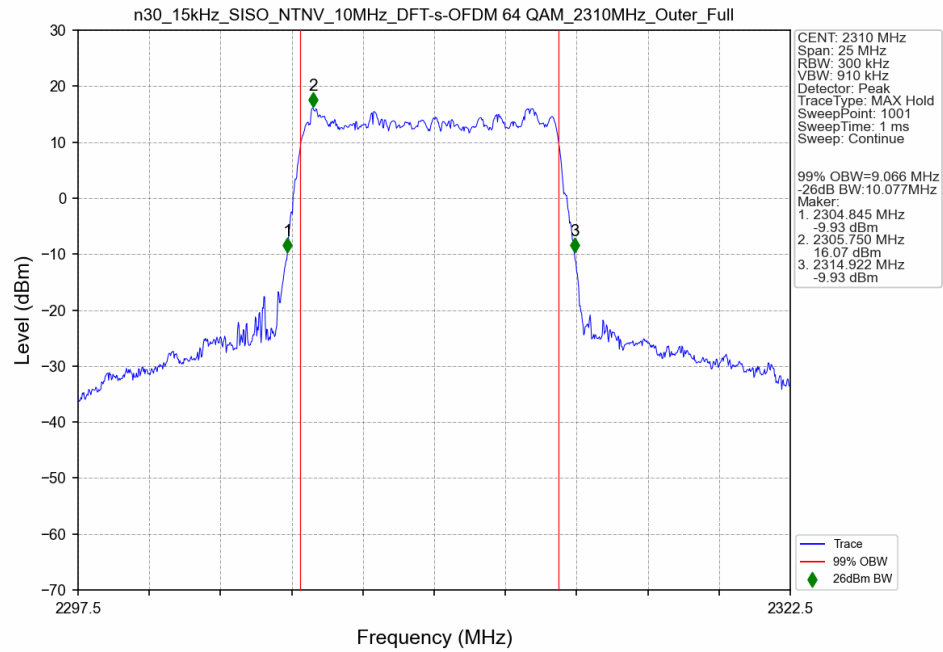
#### 3.2.1 15\_S\_10M\_NTNV



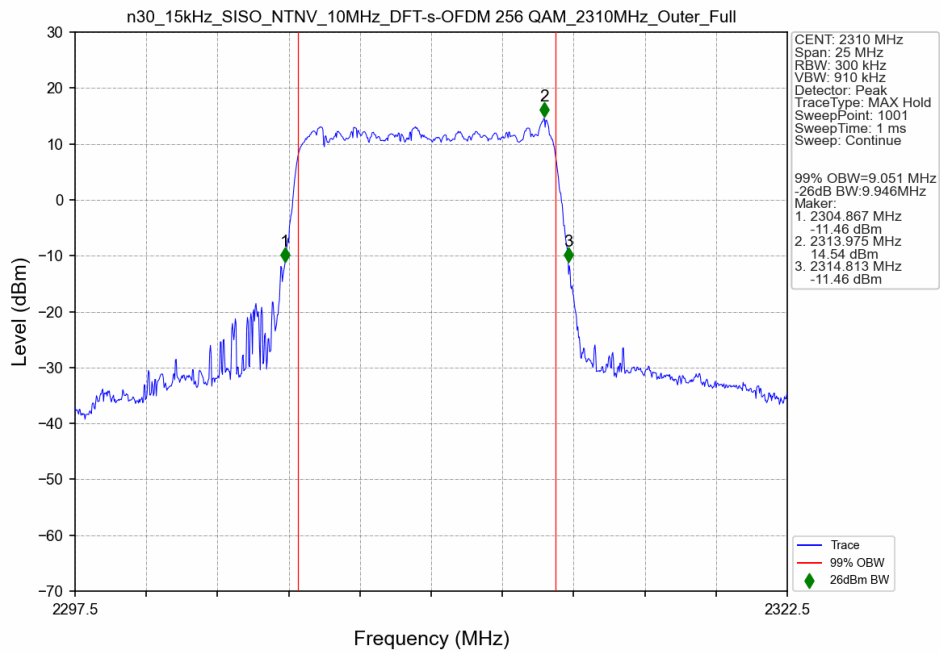
# n30\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 16 QAM 2310MHz\_Outer\_Full\_Ant6



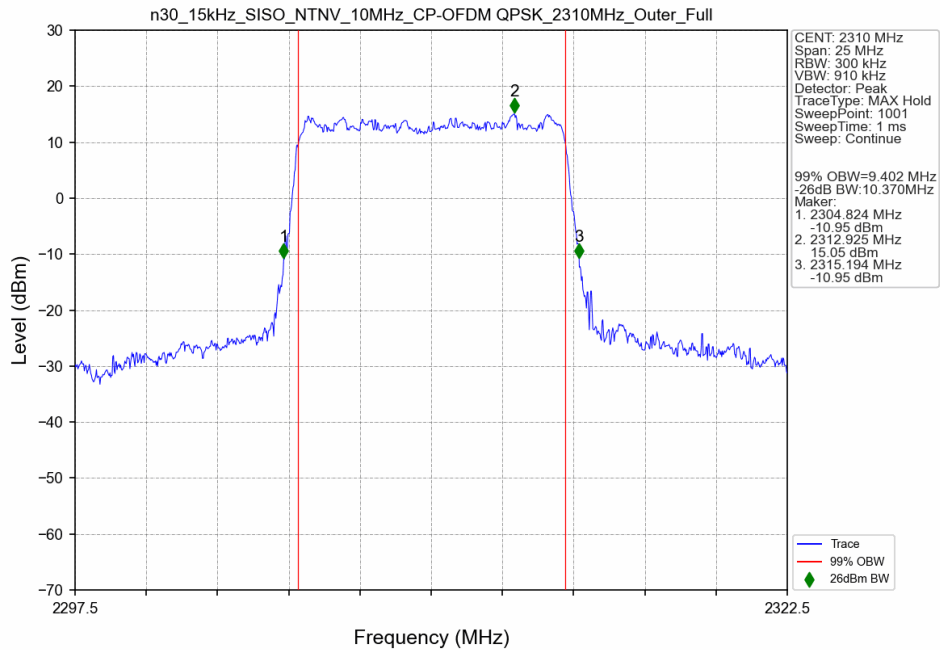
# n30\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 64 QAM 2310MHz\_Outer\_Full\_Ant6



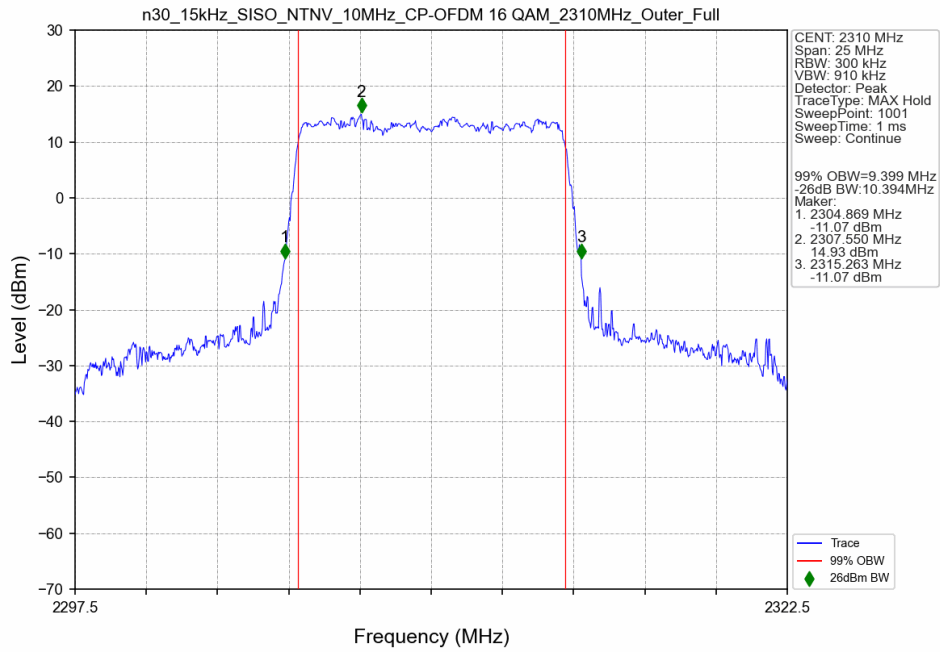
n30\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_2310MHz\_Outer\_Full\_Ant6



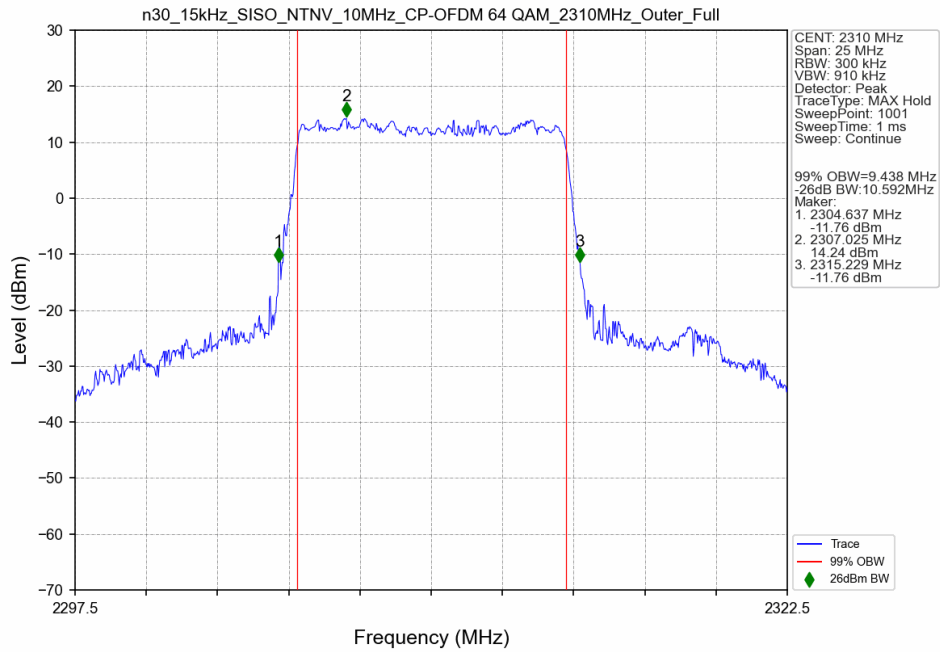
n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_2310MHz\_Outer\_Full\_Ant6

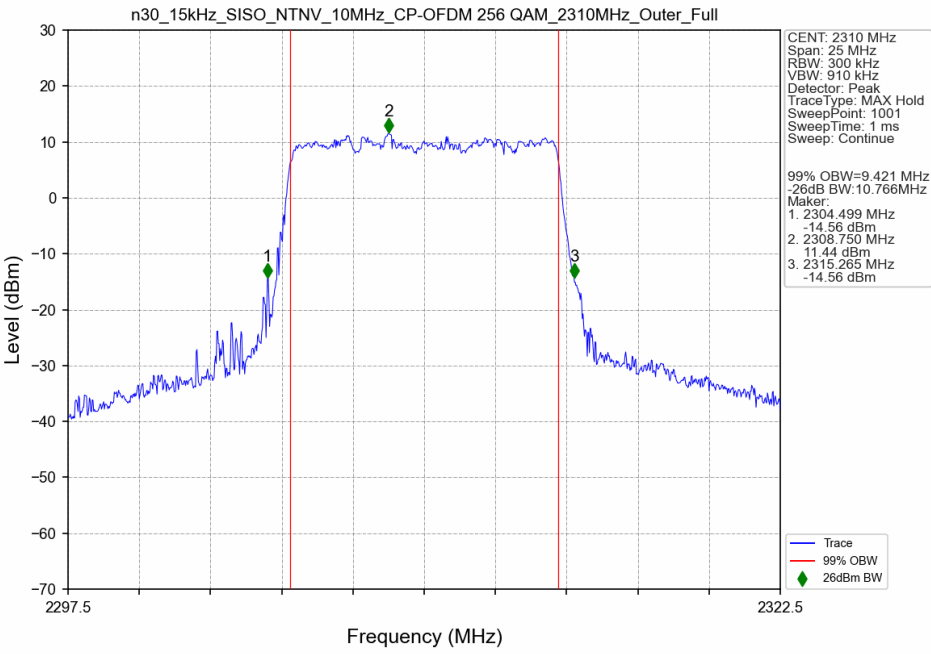


n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 16 QAM 2310MHz\_Outer\_Full\_Ant6



n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM 2310MHz\_Outer\_Full\_Ant6





## 4. Peak-Average Ratio

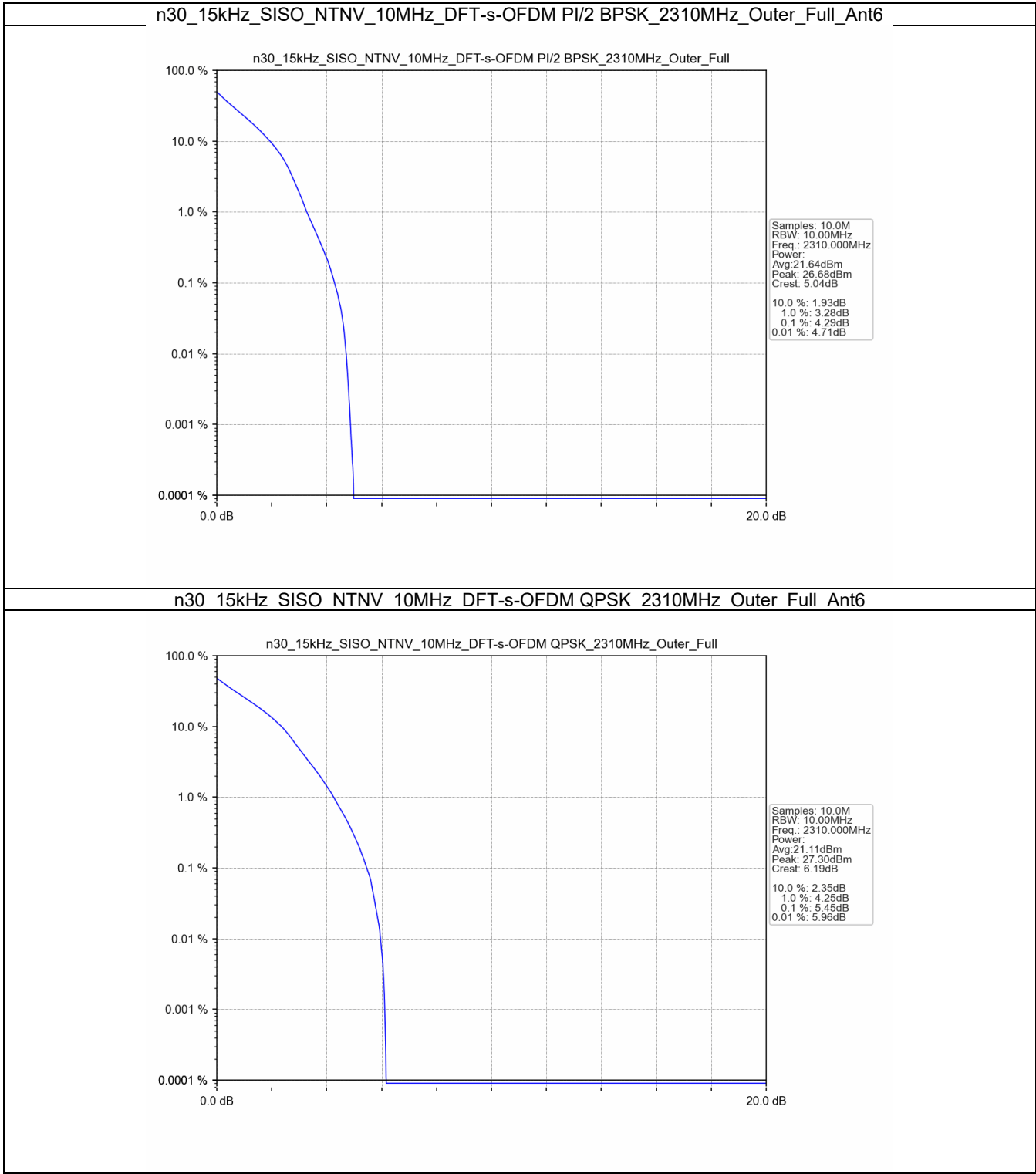
### 4.1 Test Result

#### 4.1.1 15\_S\_10M\_NTNV

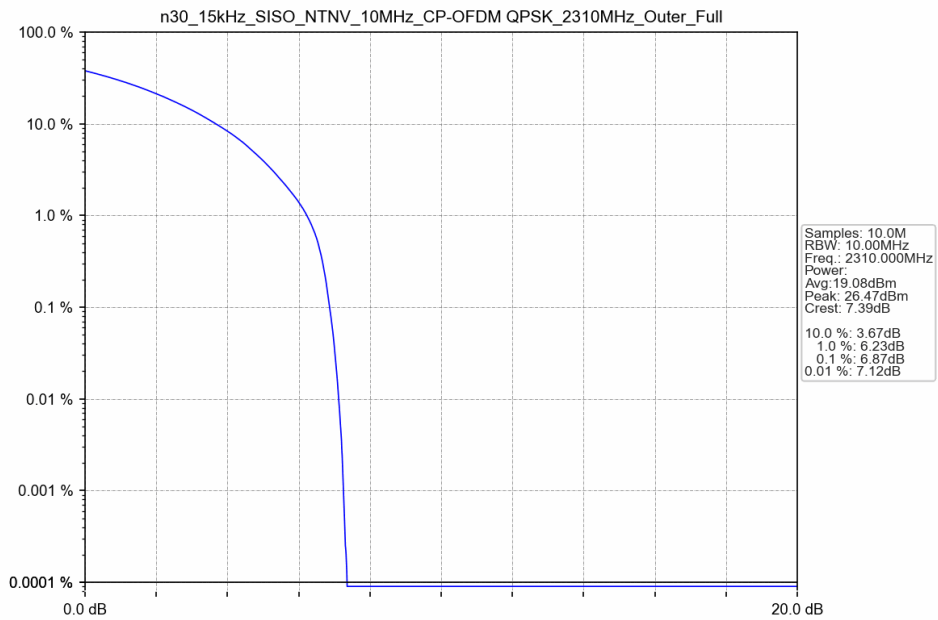
| 5G NR n30 SCS=15kHz SISO 10MHz NTN |                 |               |                         |      |     |       |         |
|------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                    |                 |               | Ant6                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 2310            | Outer_Full    | 4.29                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                    | 2310            | Outer_Full    | 5.45                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                       | 2310            | Outer_Full    | 6.87                    | /    | /   | <=13  | Pass    |

## 4.2 Test Graph

### 4.2.1 15\_S\_10M\_NTNV



n30 15kHz SISO NTN 10MHz CP-OFDM QPSK 2310MHz Outer Full Ant6



## 5. Spurious Emission

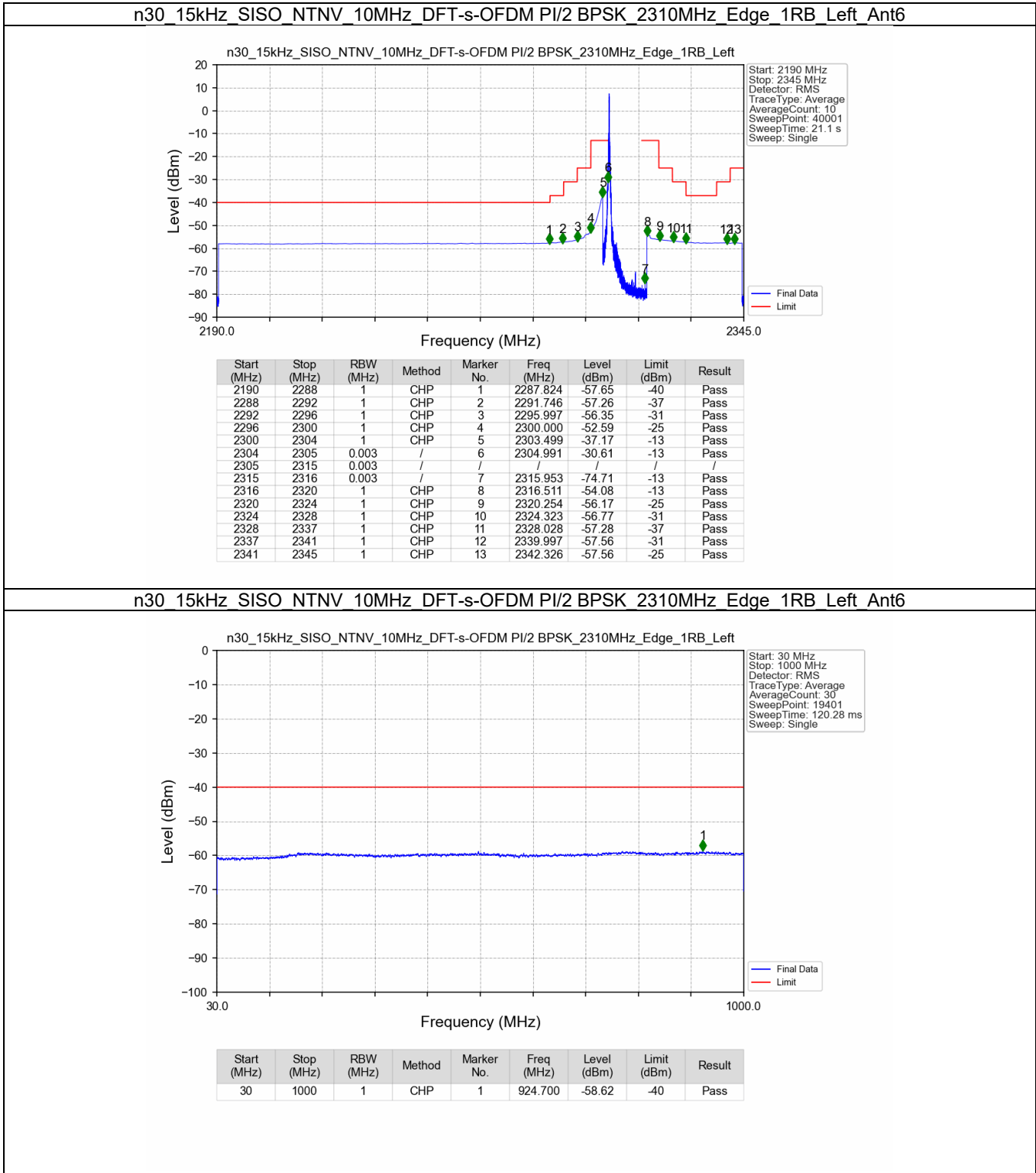
### 5.1 Test Result

#### 5.1.1 15\_S\_10M\_NTNV

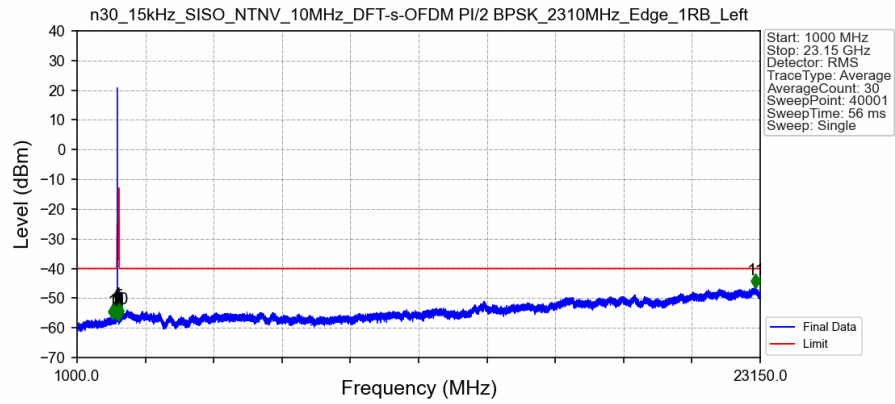
| 5G NR n30 SCS=15kHz SISO 10MHz NTN |                 |               |                     |      |     |       |         |
|------------------------------------|-----------------|---------------|---------------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | Spurious Emission   |      |     |       | Verdict |
|                                    |                 |               | Ant6                | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 2310            | Edge_1RB_Left | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Outer_Full    | Refer To Test Graph |      |     |       | Pass    |
| DFT-s-OFDM QPSK                    | 2310            | Edge_1RB_Left | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Outer_Full    | Refer To Test Graph |      |     |       | Pass    |
| CP-OFDM QPSK                       | 2310            | Edge_1RB_Left | Refer To Test Graph |      |     |       | Pass    |
|                                    |                 | Outer_Full    | Refer To Test Graph |      |     |       | Pass    |

5.2 Test Graph

5.2.1 15\_S\_10M\_NTNV

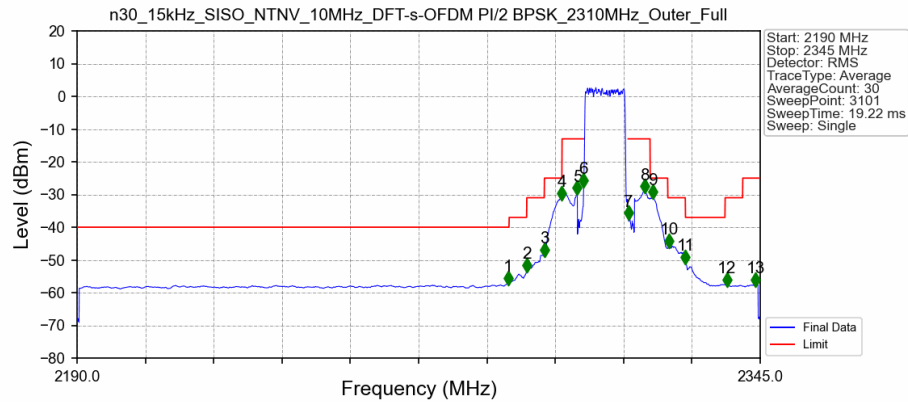


n30 15kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 2310MHz Edge 1RB Left Ant6



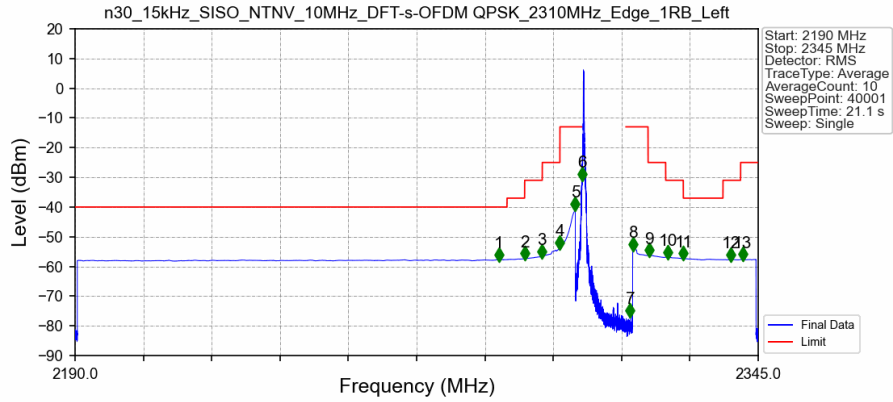
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1000        | 2288       | 1         | /      | 1          | 2153.461   | -56.32      | -40         | Pass   |
| 2288        | 2292       | 1         | /      | 2          | 2288.023   | -56.52      | -37         | Pass   |
| 2292        | 2296       | 1         | /      | 3          | 2293.560   | -56.21      | -31         | Pass   |
| 2296        | 2300       | 1         | /      | 4          | 2298.544   | -54.23      | -25         | Pass   |
| 2300        | 2320       | 1         | /      | /          | /          | /           | /           | /      |
| 2320        | 2324       | 1         | /      | 5          | 2320.694   | -54.77      | -25         | Pass   |
| 2324        | 2328       | 1         | /      | 6          | 2325.124   | -55.58      | -31         | Pass   |
| 2328        | 2337       | 1         | /      | 7          | 2330.661   | -56.39      | -37         | Pass   |
| 2337        | 2341       | 1         | /      | 8          | 2340.629   | -56.73      | -31         | Pass   |
| 2341        | 2345       | 1         | /      | 9          | 2344.505   | -56.40      | -25         | Pass   |
| 2345        | 2365       | 1         | /      | 10         | 2364.440   | -56.01      | -13         | Pass   |
| 2365        | 23150      | 1         | /      | 11         | 23001.041  | -46.00      | -40         | Pass   |

n30 15kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 2310MHz Outer\_Full Ant6



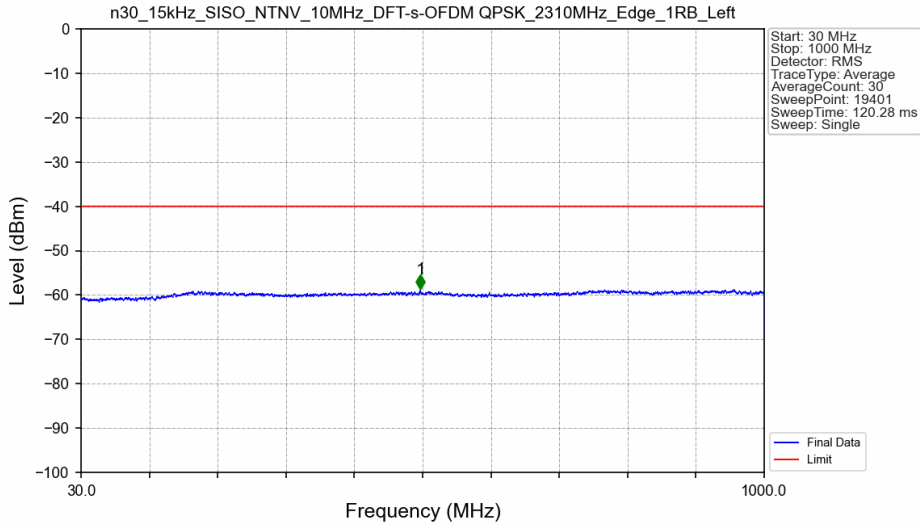
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2190        | 2288       | 1         | CHP    | 1          | 2287.800   | -57.17      | -40         | Pass   |
| 2288        | 2292       | 1         | CHP    | 2          | 2292.000   | -53.13      | -37         | Pass   |
| 2292        | 2296       | 1         | CHP    | 3          | 2296.000   | -48.53      | -31         | Pass   |
| 2296        | 2300       | 1         | CHP    | 4          | 2300.000   | -31.22      | -25         | Pass   |
| 2300        | 2304       | 1         | CHP    | 5          | 2303.500   | -29.59      | -13         | Pass   |
| 2304        | 2305       | 0.10019   | CHP    | 6          | 2304.950   | -27.28      | -13         | Pass   |
| 2305        | 2315       | 0.10019   | CHP    | /          | /          | /           | /           | /      |
| 2315        | 2316       | 0.10019   | CHP    | 7          | 2315.050   | -37.21      | -13         | Pass   |
| 2316        | 2320       | 1         | CHP    | 8          | 2318.750   | -29.07      | -13         | Pass   |
| 2320        | 2324       | 1         | CHP    | 9          | 2320.550   | -30.70      | -25         | Pass   |
| 2324        | 2328       | 1         | CHP    | 10         | 2324.300   | -45.74      | -31         | Pass   |
| 2328        | 2337       | 1         | CHP    | 11         | 2328.050   | -50.60      | -37         | Pass   |
| 2337        | 2341       | 1         | CHP    | 12         | 2337.450   | -57.64      | -31         | Pass   |
| 2341        | 2345       | 1         | CHP    | 13         | 2343.950   | -57.62      | -25         | Pass   |

n30\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_QPSK\_2310MHz\_Edge\_1RB\_Left\_Ant6



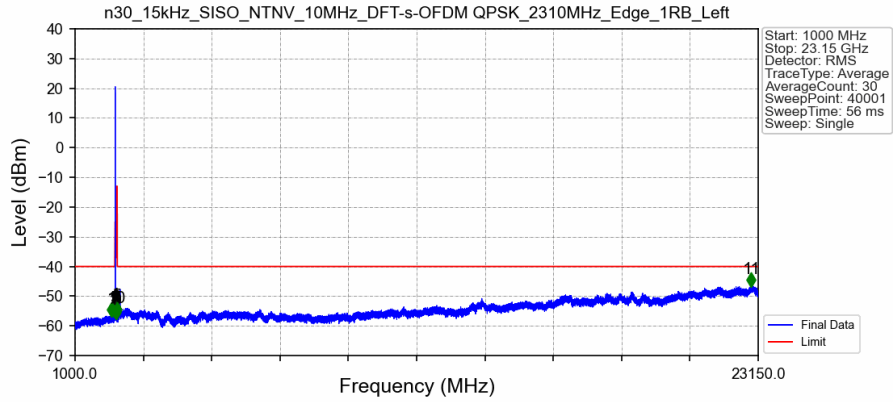
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2190        | 2288       | 1         | CHP    | 1          | 2286.143   | -57.69      | -40         | Pass   |
| 2288        | 2292       | 1         | CHP    | 2          | 2291.998   | -57.37      | -37         | Pass   |
| 2292        | 2296       | 1         | CHP    | 3          | 2295.981   | -56.57      | -31         | Pass   |
| 2296        | 2300       | 1         | CHP    | 4          | 2299.976   | -53.77      | -25         | Pass   |
| 2300        | 2304       | 1         | CHP    | 5          | 2303.495   | -40.56      | -13         | Pass   |
| 2304        | 2305       | 0.003     | /      | 6          | 2304.979   | -30.64      | -13         | Pass   |
| 2305        | 2315       | 0.003     | /      | /          | /          | /           | /           | /      |
| 2315        | 2316       | 0.003     | /      | 7          | 2315.953   | -76.53      | -13         | Pass   |
| 2316        | 2320       | 1         | CHP    | 8          | 2316.511   | -54.15      | -13         | Pass   |
| 2320        | 2324       | 1         | CHP    | 9          | 2320.305   | -56.28      | -25         | Pass   |
| 2324        | 2328       | 1         | CHP    | 10         | 2324.466   | -56.85      | -31         | Pass   |
| 2328        | 2337       | 1         | CHP    | 11         | 2328.012   | -57.32      | -37         | Pass   |
| 2337        | 2341       | 1         | CHP    | 12         | 2338.812   | -57.67      | -31         | Pass   |
| 2341        | 2345       | 1         | CHP    | 13         | 2341.454   | -57.63      | -25         | Pass   |

n30\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_QPSK\_2310MHz\_Edge\_1RB\_Left\_Ant6



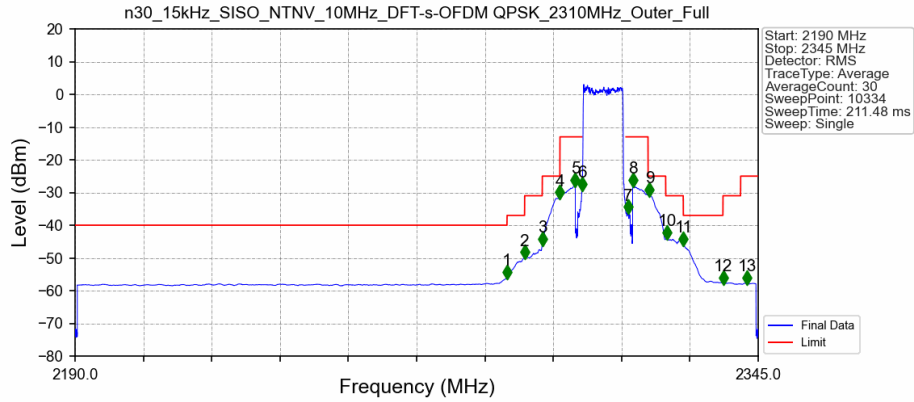
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 30          | 1000       | 1         | CHP    | 1          | 511.950    | -58.67      | -40         | Pass   |

n30\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_QPSK\_2310MHz\_Edge\_1RB\_Left\_Ant6



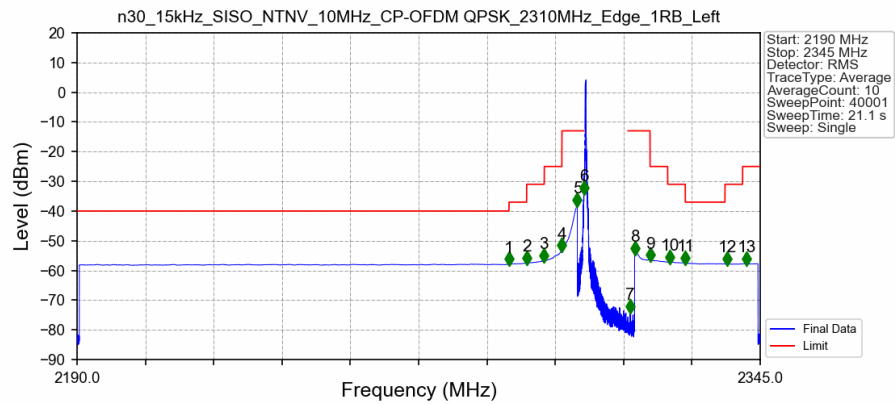
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1000        | 2288       | 1         | /      | 1          | 2185.579   | -56.21      | -40         | Pass   |
| 2288        | 2292       | 1         | /      | 2          | 2289.684   | -56.40      | -37         | Pass   |
| 2292        | 2296       | 1         | /      | 3          | 2294.668   | -56.09      | -31         | Pass   |
| 2296        | 2300       | 1         | /      | 4          | 2299.097   | -55.17      | -25         | Pass   |
| 2300        | 2320       | 1         | /      | /          | /          | /           | /           | /      |
| 2320        | 2324       | 1         | /      | 5          | 2320.694   | -55.34      | -25         | Pass   |
| 2324        | 2328       | 1         | /      | 6          | 2325.124   | -56.03      | -31         | Pass   |
| 2328        | 2337       | 1         | /      | 7          | 2333.984   | -56.30      | -37         | Pass   |
| 2337        | 2341       | 1         | /      | 8          | 2338.414   | -56.46      | -31         | Pass   |
| 2341        | 2345       | 1         | /      | 9          | 2343.398   | -57.00      | -25         | Pass   |
| 2345        | 2365       | 1         | /      | 10         | 2356.688   | -56.22      | -13         | Pass   |
| 2365        | 23150      | 1         | /      | 11         | 22926.285  | -46.30      | -40         | Pass   |

n30\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_QPSK\_2310MHz\_Outer\_Full\_Ant6



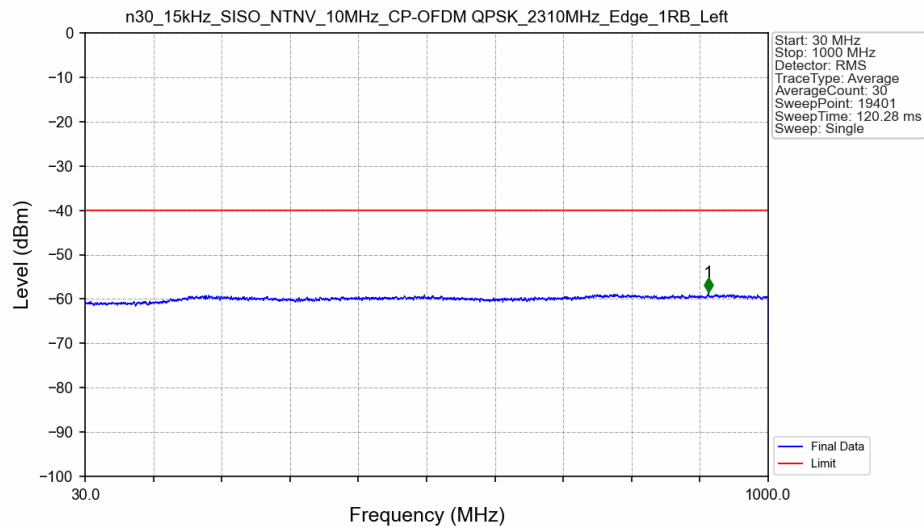
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2190        | 2288       | 1         | CHP    | 1          | 2287.998   | -55.89      | -40         | Pass   |
| 2288        | 2292       | 1         | CHP    | 2          | 2291.988   | -49.79      | -37         | Pass   |
| 2292        | 2296       | 1         | CHP    | 3          | 2295.993   | -45.67      | -31         | Pass   |
| 2296        | 2300       | 1         | CHP    | 4          | 2299.999   | -31.56      | -25         | Pass   |
| 2300        | 2304       | 1         | CHP    | 5          | 2303.494   | -27.77      | -13         | Pass   |
| 2304        | 2305       | 0.09998   | CHP    | 6          | 2304.994   | -28.88      | -13         | Pass   |
| 2305        | 2315       | 0.09998   | CHP    | /          | /          | /           | /           | /      |
| 2315        | 2316       | 0.09998   | CHP    | 7          | 2315.524   | -36.01      | -13         | Pass   |
| 2316        | 2320       | 1         | CHP    | 8          | 2316.514   | -27.78      | -13         | Pass   |
| 2320        | 2324       | 1         | CHP    | 9          | 2320.354   | -30.72      | -25         | Pass   |
| 2324        | 2328       | 1         | CHP    | 10         | 2324.359   | -43.79      | -31         | Pass   |
| 2328        | 2337       | 1         | CHP    | 11         | 2328.004   | -45.79      | -37         | Pass   |
| 2337        | 2341       | 1         | CHP    | 12         | 2337.065   | -57.56      | -31         | Pass   |
| 2341        | 2345       | 1         | CHP    | 13         | 2342.450   | -57.67      | -25         | Pass   |

n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_2310MHz\_Edge\_1RB\_Left\_Ant6



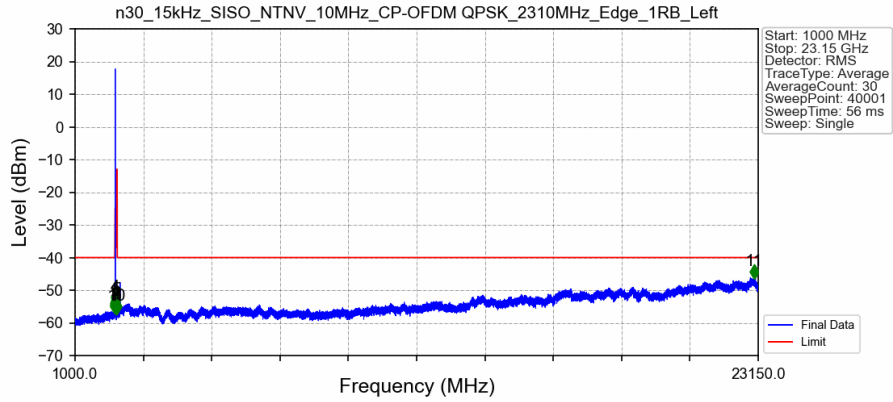
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2190        | 2288       | 1         | CHP    | 1          | 2287.995   | -57.88      | -40         | Pass   |
| 2288        | 2292       | 1         | CHP    | 2          | 2291.998   | -57.51      | -37         | Pass   |
| 2292        | 2296       | 1         | CHP    | 3          | 2295.985   | -56.70      | -31         | Pass   |
| 2296        | 2300       | 1         | CHP    | 4          | 2299.992   | -53.27      | -25         | Pass   |
| 2300        | 2304       | 1         | CHP    | 5          | 2303.491   | -37.84      | -13         | Pass   |
| 2304        | 2305       | 0.003     | /      | 6          | 2304.994   | -33.82      | -13         | Pass   |
| 2305        | 2315       | 0.003     | /      | /          | /          | /           | /           | /      |
| 2315        | 2316       | 0.003     | /      | 7          | 2315.461   | -73.71      | -13         | Pass   |
| 2316        | 2320       | 1         | CHP    | 8          | 2316.670   | -54.15      | -13         | Pass   |
| 2320        | 2324       | 1         | CHP    | 9          | 2320.002   | -56.53      | -25         | Pass   |
| 2324        | 2328       | 1         | CHP    | 10         | 2324.536   | -57.13      | -31         | Pass   |
| 2328        | 2337       | 1         | CHP    | 11         | 2328.043   | -57.52      | -37         | Pass   |
| 2337        | 2341       | 1         | CHP    | 12         | 2337.490   | -57.75      | -31         | Pass   |
| 2341        | 2345       | 1         | CHP    | 13         | 2341.935   | -57.71      | -25         | Pass   |

n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_2310MHz\_Edge\_1RB\_Left\_Ant6



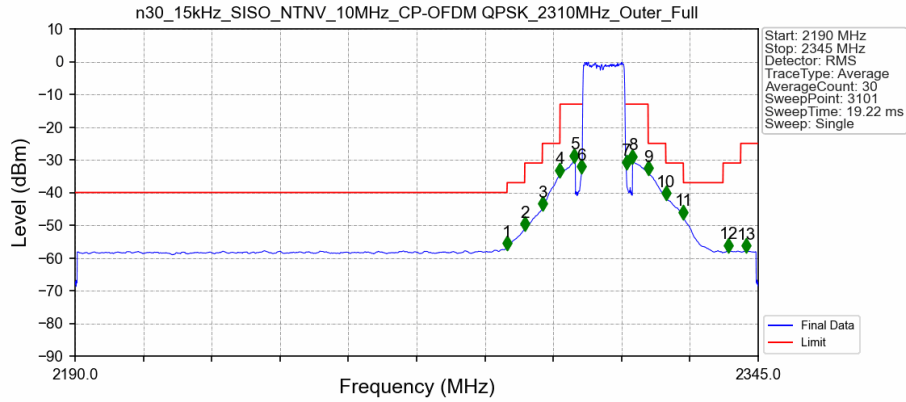
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 30          | 1000       | 1         | CHP    | 1          | 914.800    | -58.50      | -40         | Pass   |

n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_2310MHz\_Edge\_1RB\_Left\_Ant6



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1000        | 2288       | 1         | /      | 1          | 2285.807   | -55.99      | -40         | Pass   |
| 2288        | 2292       | 1         | /      | 2          | 2291.899   | -55.46      | -37         | Pass   |
| 2292        | 2296       | 1         | /      | 3          | 2294.114   | -56.45      | -31         | Pass   |
| 2296        | 2300       | 1         | /      | 4          | 2299.097   | -53.87      | -25         | Pass   |
| 2300        | 2320       | 1         | /      | /          | /          | /           | /           | /      |
| 2320        | 2324       | 1         | /      | 5          | 2321.801   | -54.74      | -25         | Pass   |
| 2324        | 2328       | 1         | /      | 6          | 2327.339   | -56.31      | -31         | Pass   |
| 2328        | 2337       | 1         | /      | 7          | 2332.323   | -56.76      | -37         | Pass   |
| 2337        | 2341       | 1         | /      | 8          | 2339.521   | -56.72      | -31         | Pass   |
| 2341        | 2345       | 1         | /      | 9          | 2342.290   | -56.60      | -25         | Pass   |
| 2345        | 2365       | 1         | /      | 10         | 2351.704   | -56.59      | -13         | Pass   |
| 2365        | 23150      | 1         | /      | 11         | 23009.901  | -45.97      | -40         | Pass   |

n30\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_2310MHz\_Outer\_Full\_Ant6



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2190        | 2288       | 1         | CHP    | 1          | 2287.950   | -57.08      | -40         | Pass   |
| 2288        | 2292       | 1         | CHP    | 2          | 2292.000   | -51.16      | -37         | Pass   |
| 2292        | 2296       | 1         | CHP    | 3          | 2296.000   | -45.03      | -31         | Pass   |
| 2296        | 2300       | 1         | CHP    | 4          | 2300.000   | -34.83      | -25         | Pass   |
| 2300        | 2304       | 1         | CHP    | 5          | 2303.300   | -30.31      | -13         | Pass   |
| 2304        | 2305       | 0.1037    | CHP    | 6          | 2304.950   | -33.64      | -13         | Pass   |
| 2305        | 2315       | 0.1037    | CHP    | /          | /          | /           | /           | /      |
| 2315        | 2316       | 0.1037    | CHP    | 7          | 2315.050   | -32.25      | -13         | Pass   |
| 2316        | 2320       | 1         | CHP    | 8          | 2316.500   | -30.54      | -13         | Pass   |
| 2320        | 2324       | 1         | CHP    | 9          | 2320.050   | -34.17      | -25         | Pass   |
| 2324        | 2328       | 1         | CHP    | 10         | 2324.050   | -41.77      | -31         | Pass   |
| 2328        | 2337       | 1         | CHP    | 11         | 2328.050   | -47.66      | -37         | Pass   |
| 2337        | 2341       | 1         | CHP    | 12         | 2338.300   | -57.78      | -31         | Pass   |
| 2341        | 2345       | 1         | CHP    | 13         | 2342.300   | -57.86      | -25         | Pass   |