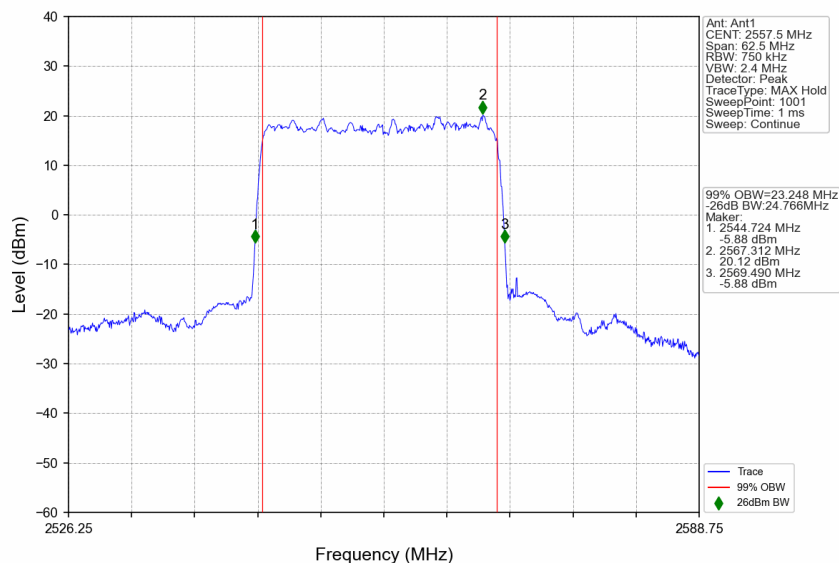


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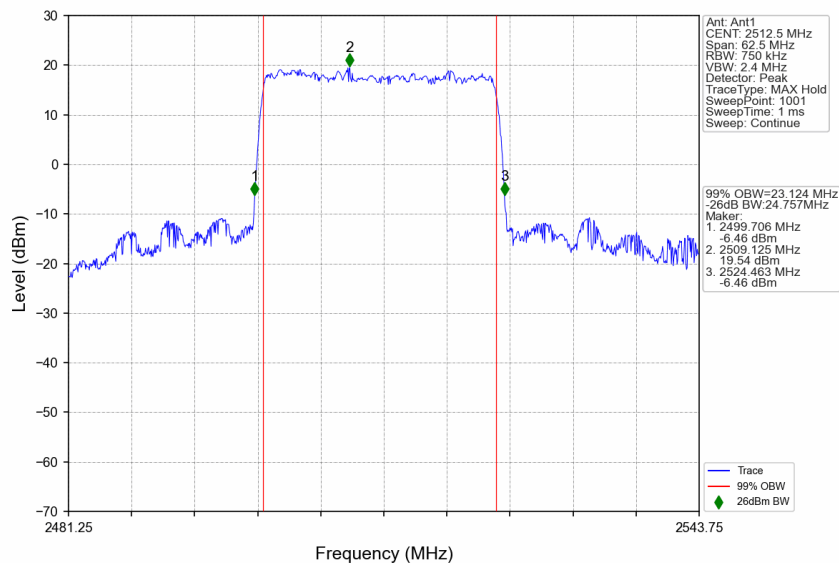
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n7\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM PI/2 BPSK\_2557.5MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM QPSK\_2512.5MHz\_Outer\_Full



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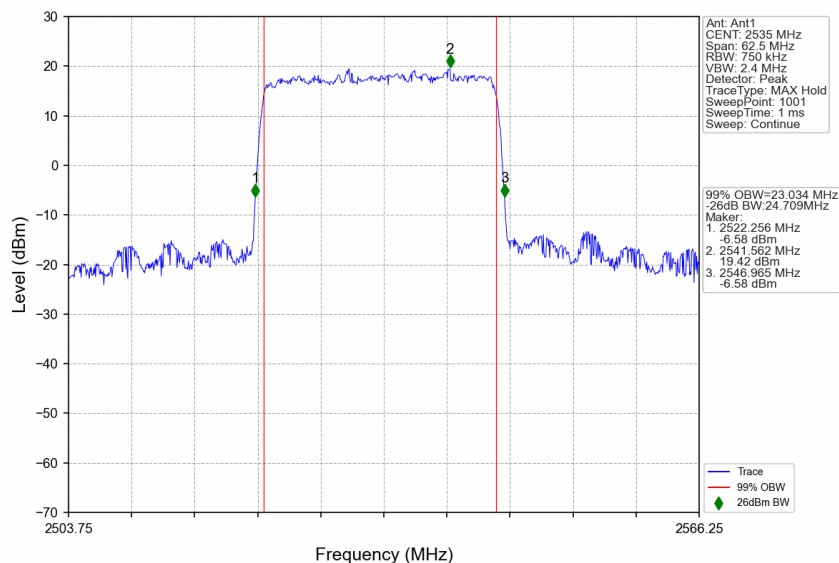
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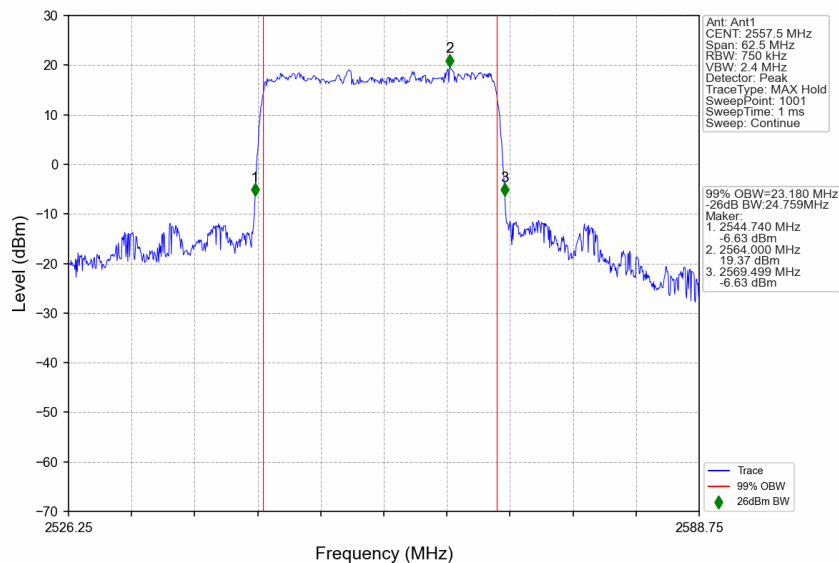
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n7\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM QPSK\_2535MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM QPSK\_2557.5MHz\_Outer\_Full



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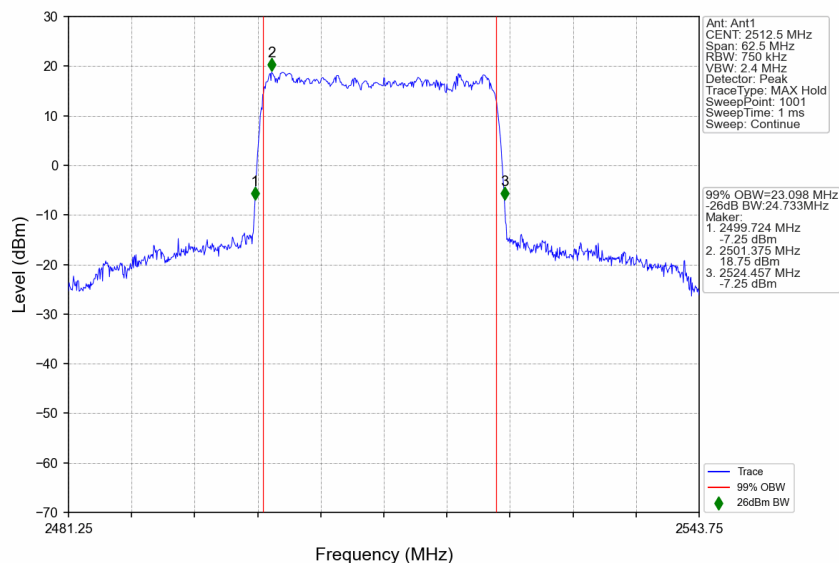
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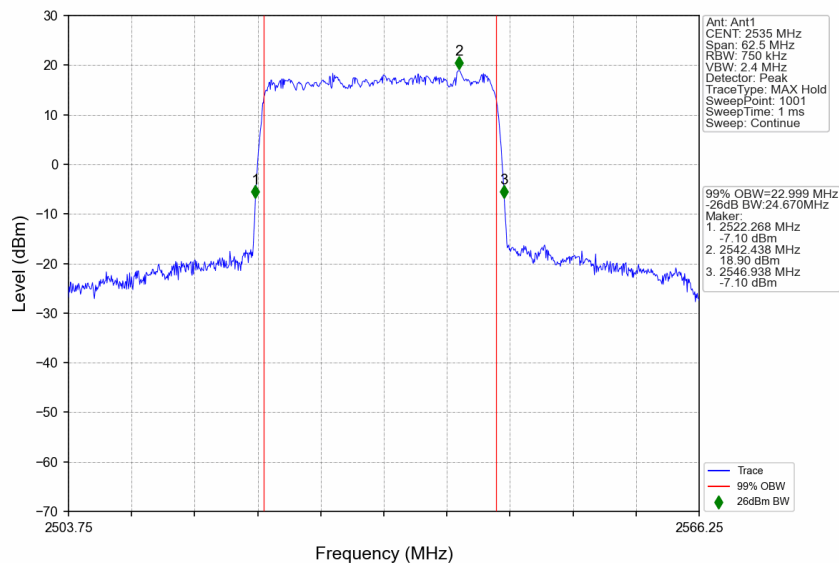
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n7\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM\_16\_QAM\_2512.5MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM\_16\_QAM\_2535MHz\_Outer\_Full



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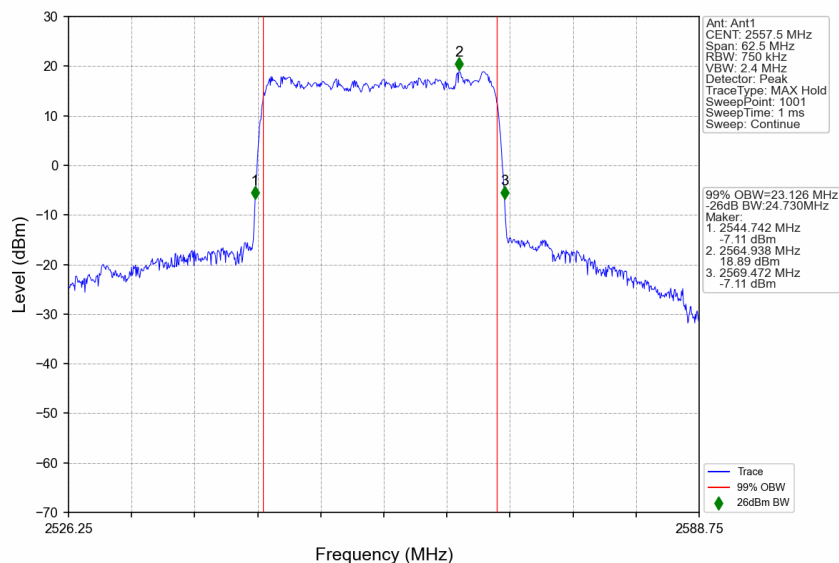
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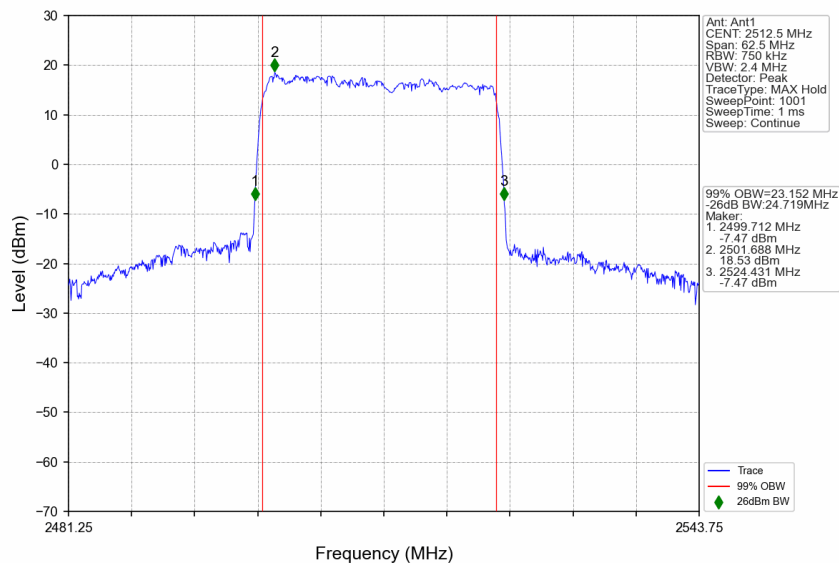
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n7\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM\_16\_QAM\_2557.5MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM\_64\_QAM\_2512.5MHz\_Outer\_Full



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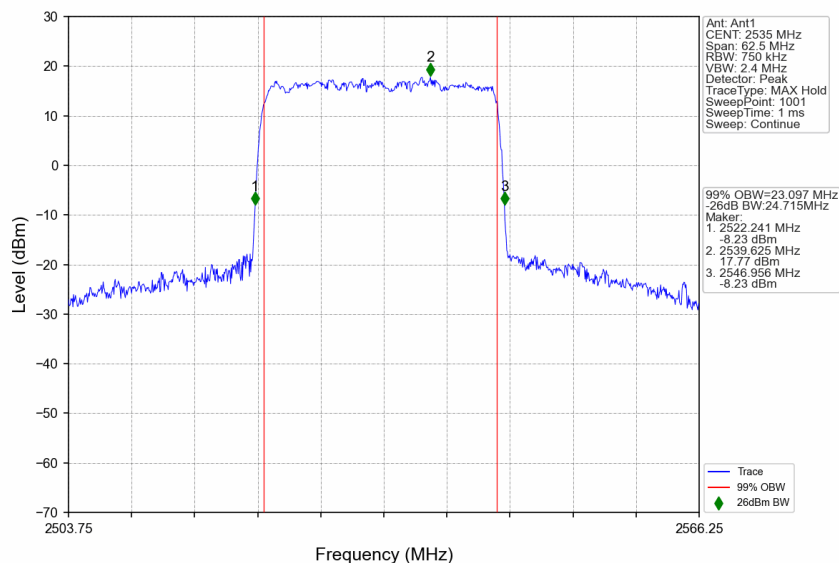
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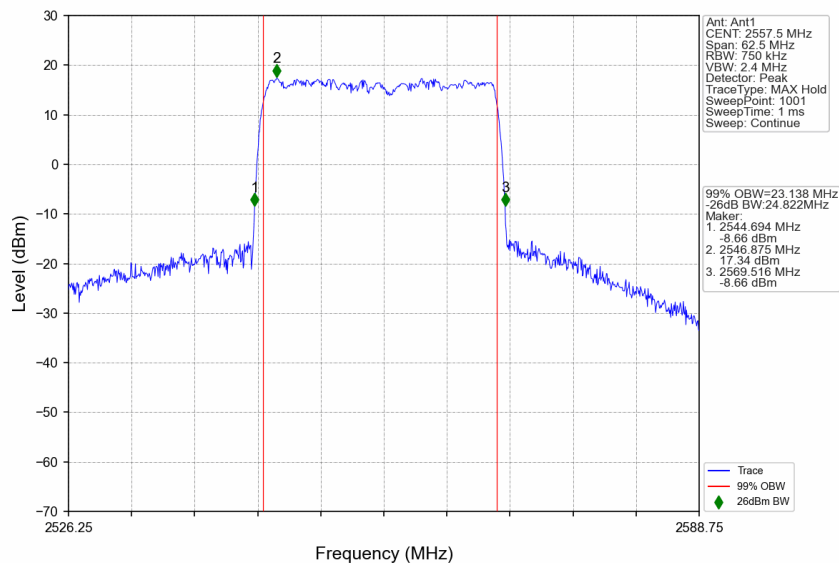
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n7\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM\_64\_QAM\_2535MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM\_64\_QAM\_2557.5MHz\_Outer\_Full



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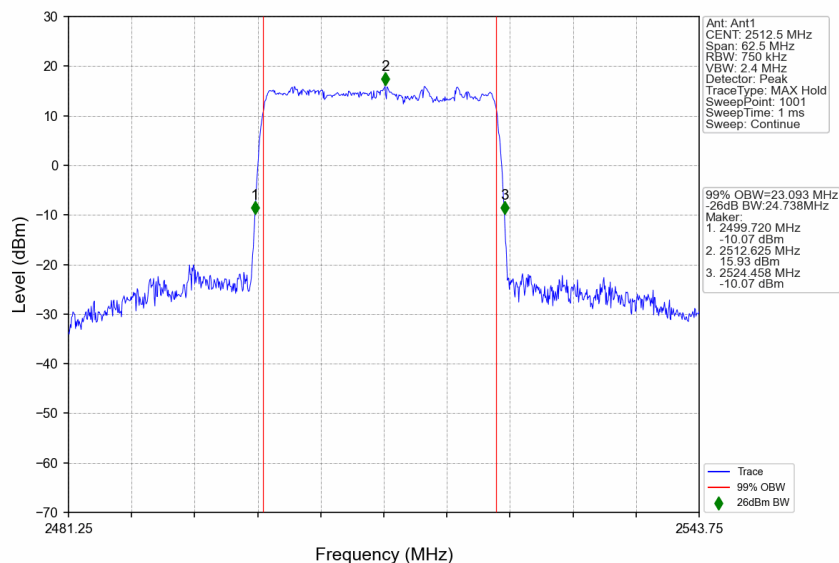
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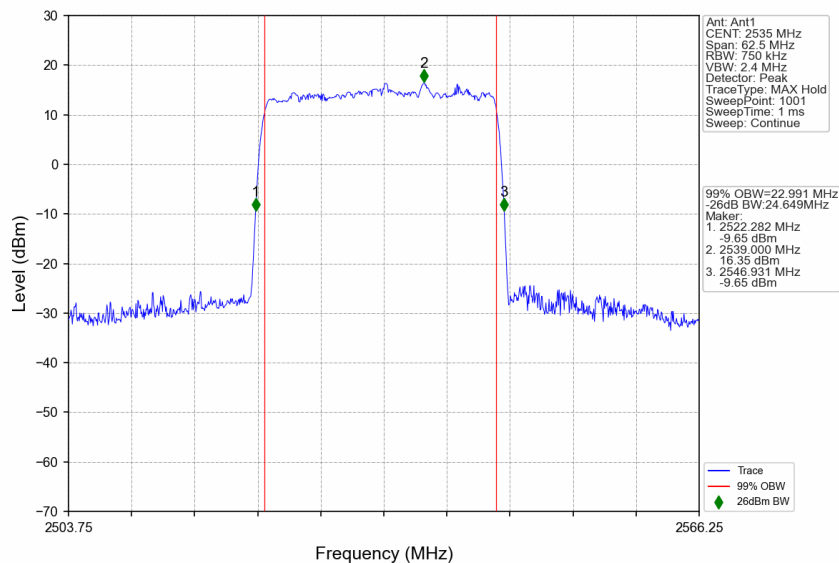
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n7\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM\_256\_QAM\_2512.5MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM\_256\_QAM\_2535MHz\_Outer\_Full



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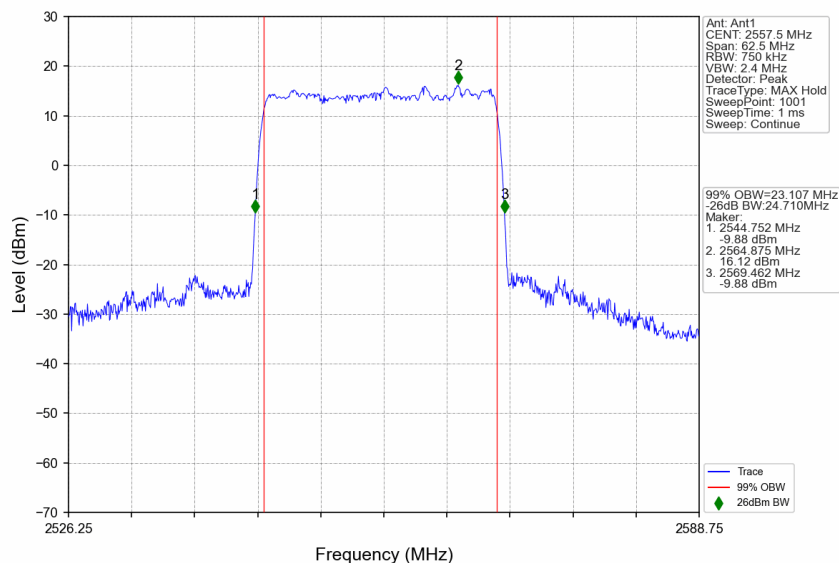
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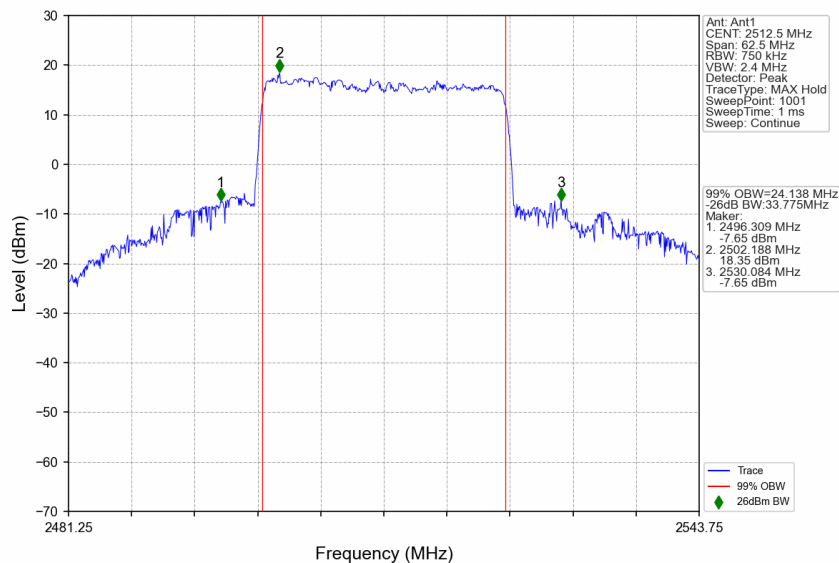
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n7\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM\_256 QAM\_2557.5MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM QPSK\_2512.5MHz\_Outer\_Full



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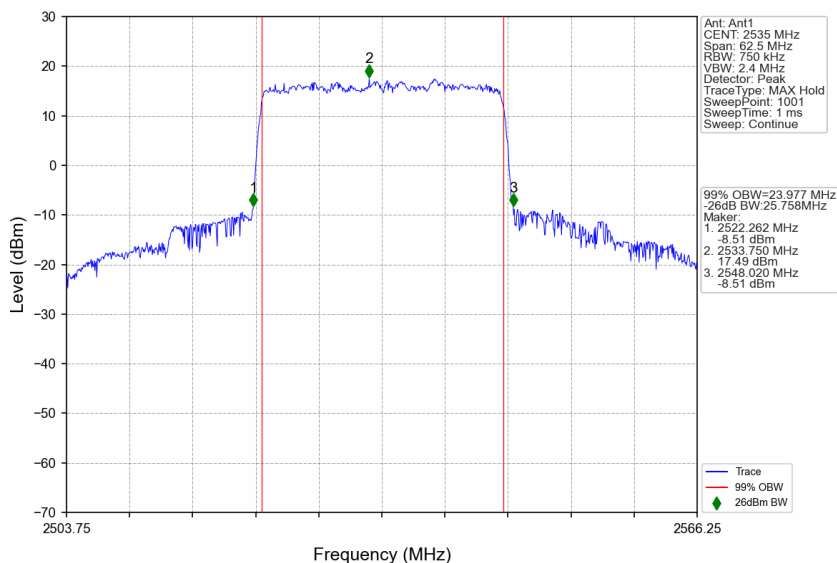
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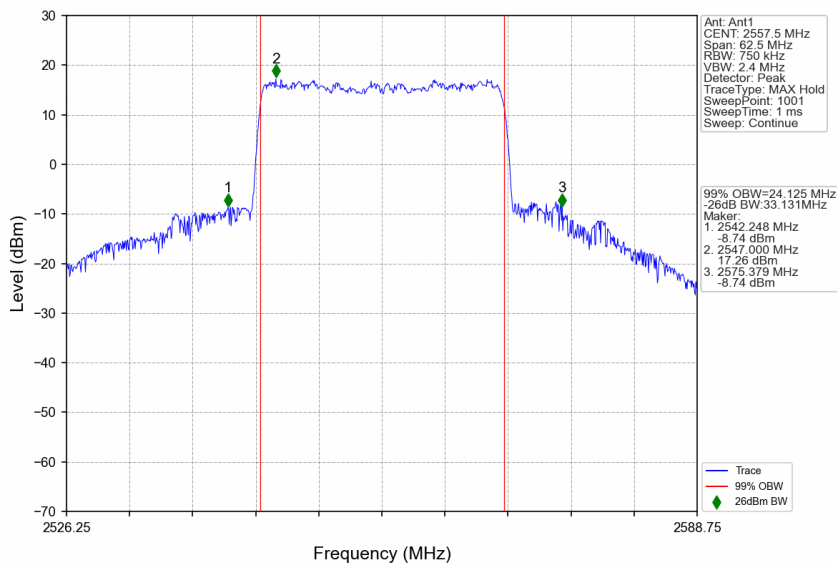
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n7\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM\_QPSK\_2535MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM\_QPSK\_2557.5MHz\_Outer\_Full



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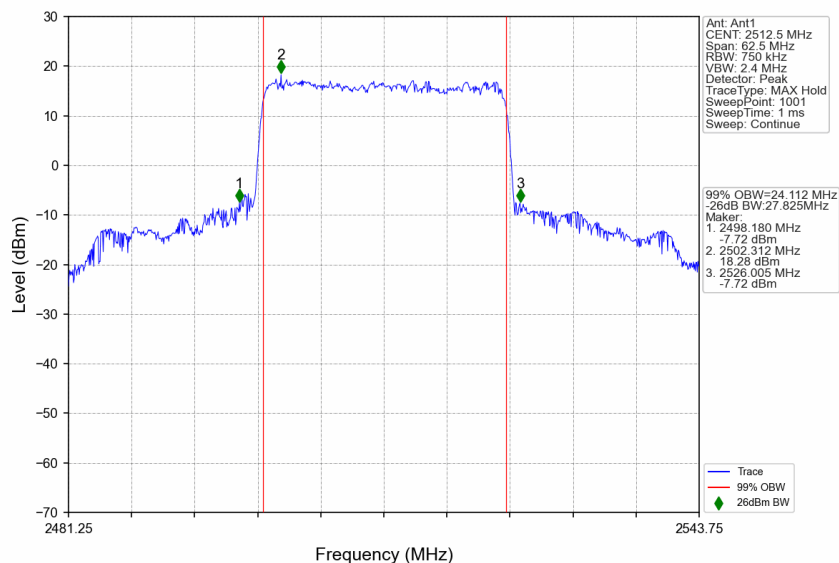
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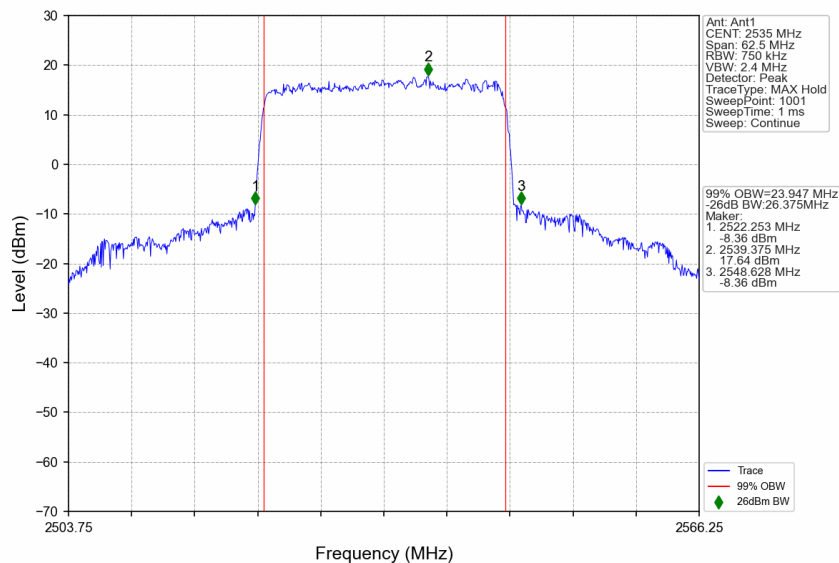
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n7\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM\_16\_QAM\_2535MHz\_Outer\_Full



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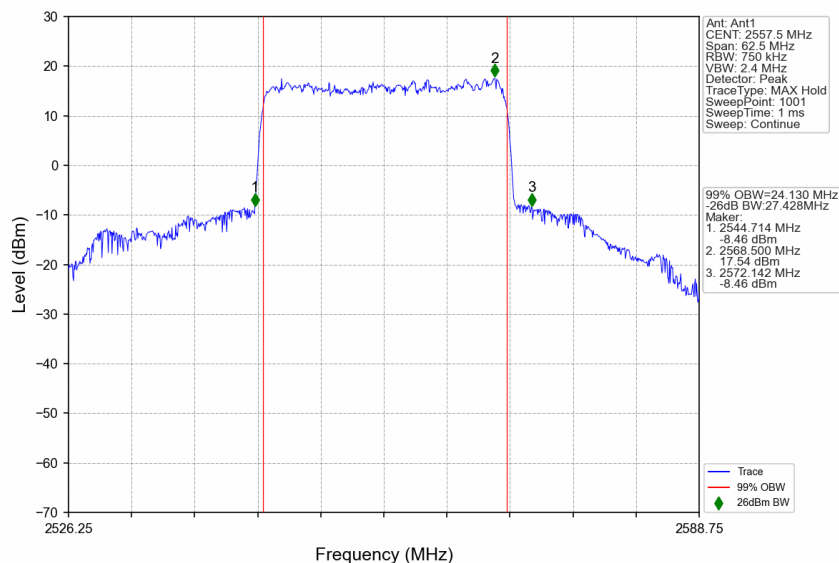
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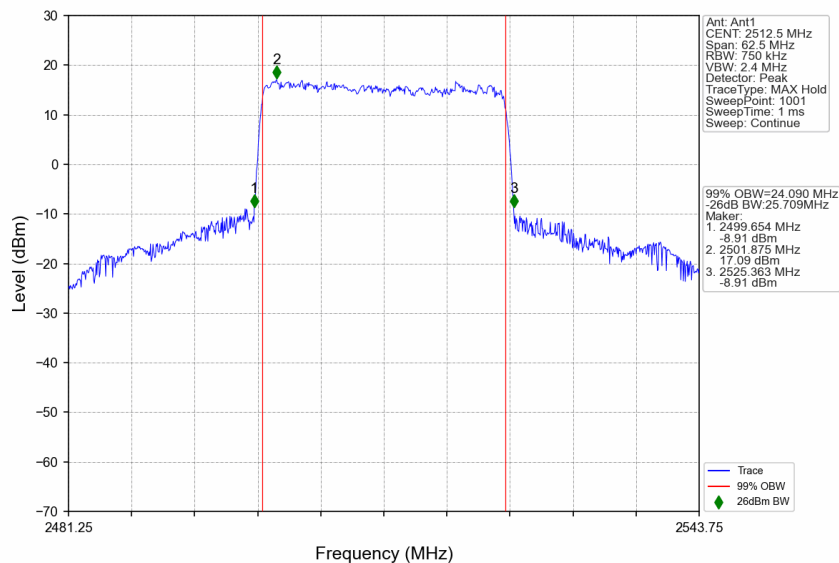
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n7\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM 16 QAM\_2557.5MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM 64 QAM\_2512.5MHz\_Outer\_Full



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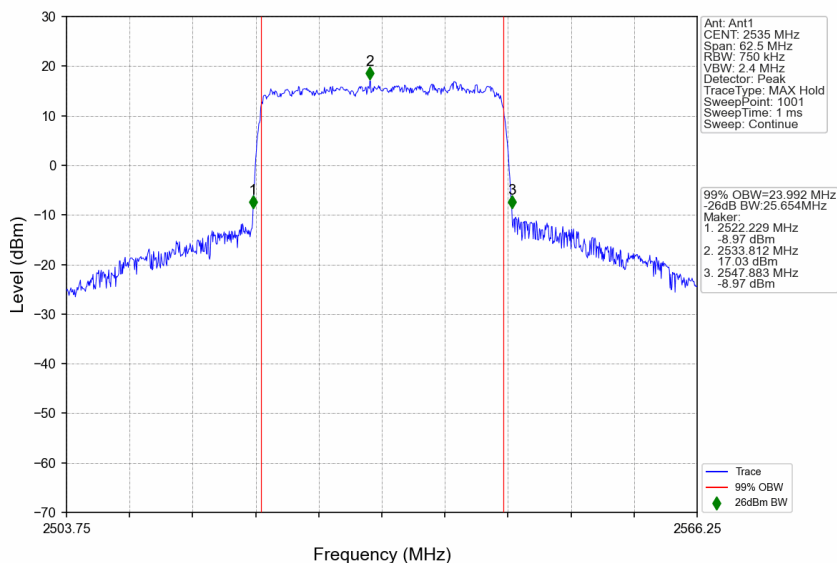
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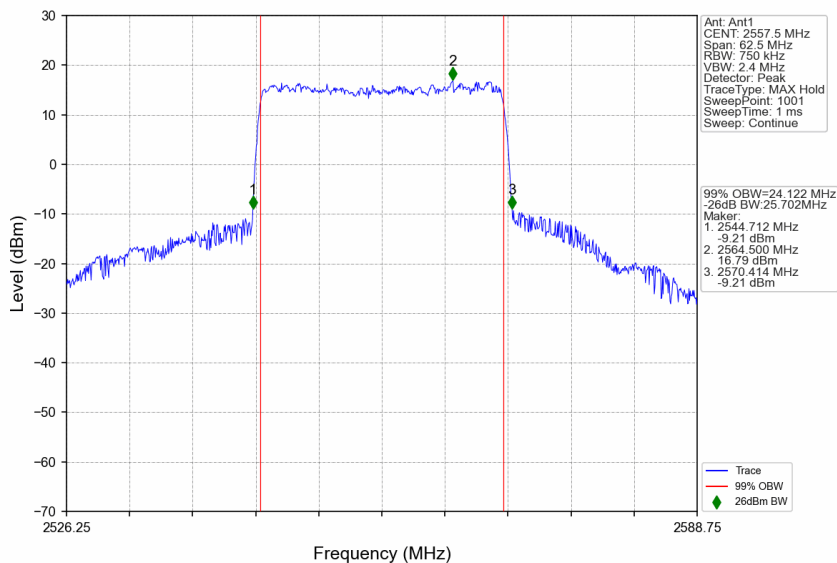
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n7\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM 64 QAM 2535MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM 64 QAM 2557.5MHz\_Outer\_Full



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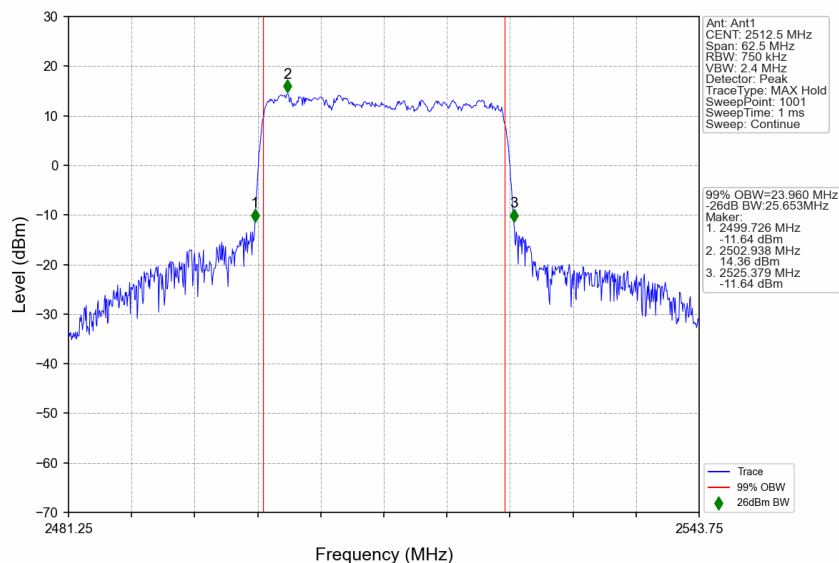
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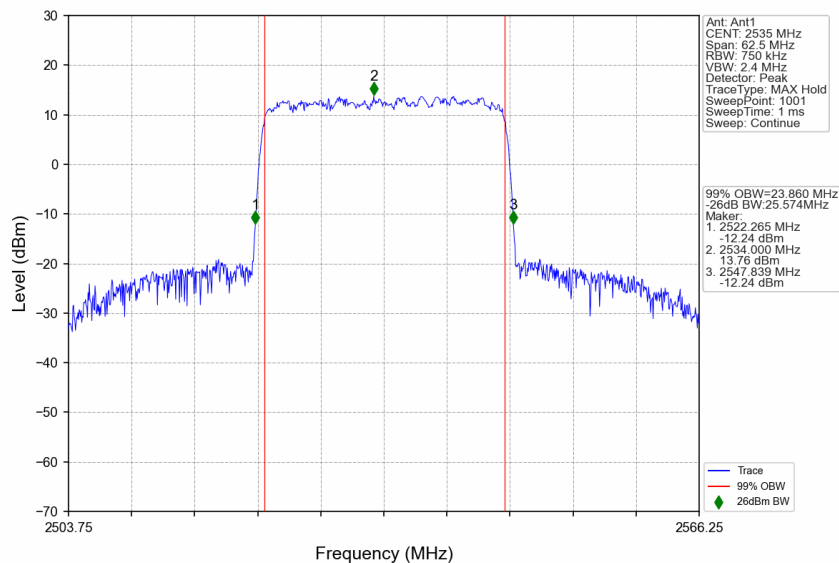
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n7\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM\_2512.5MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM\_2535MHz\_Outer\_Full



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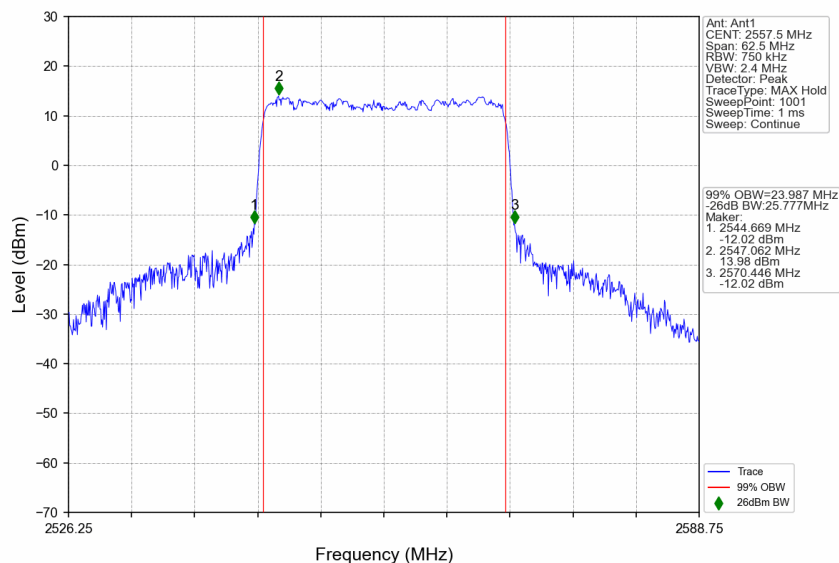
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n7\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM\_256\_QAM\_2557.5MHz\_Outer\_Full



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## 4.6 15k\_SISO\_30MHz\_NTNV

### 4.6.1 Test Result

| 5G NR n7 SCS=15kHz SISO 30MHz NTN |                 |               |                     |                      |             |         |
|-----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK              | 2515            | Outer Full    | 28.96               | 30.86                | /           | Pass    |
|                                   | 2535            | Outer Full    | 28.80               | 30.84                | /           | Pass    |
|                                   | 2555            | Outer Full    | 28.96               | 30.91                | /           | Pass    |
| DFT-s-OFDM QPSK                   | 2515            | Outer Full    | 28.94               | 30.96                | /           | Pass    |
|                                   | 2535            | Outer Full    | 28.79               | 30.82                | /           | Pass    |
|                                   | 2555            | Outer Full    | 28.90               | 30.93                | /           | Pass    |
| DFT-s-OFDM 16 QAM                 | 2515            | Outer Full    | 28.90               | 30.87                | /           | Pass    |
|                                   | 2535            | Outer Full    | 28.71               | 30.84                | /           | Pass    |
|                                   | 2555            | Outer Full    | 28.88               | 30.89                | /           | Pass    |
| DFT-s-OFDM 64 QAM                 | 2515            | Outer Full    | 29.01               | 30.98                | /           | Pass    |
|                                   | 2535            | Outer Full    | 28.79               | 30.83                | /           | Pass    |
|                                   | 2555            | Outer Full    | 28.99               | 30.91                | /           | Pass    |
| DFT-s-OFDM 256 QAM                | 2515            | Outer Full    | 28.84               | 30.90                | /           | Pass    |
|                                   | 2535            | Outer Full    | 28.64               | 30.72                | /           | Pass    |
|                                   | 2555            | Outer Full    | 28.85               | 30.85                | /           | Pass    |
| CP-OFDM QPSK                      | 2515            | Outer Full    | 29.08               | 39.60                | /           | Pass    |
|                                   | 2535            | Outer Full    | 28.88               | 33.22                | /           | Pass    |
|                                   | 2555            | Outer Full    | 29.07               | 37.66                | /           | Pass    |
| CP-OFDM 16 QAM                    | 2515            | Outer Full    | 28.94               | 35.44                | /           | Pass    |
|                                   | 2535            | Outer Full    | 28.74               | 33.17                | /           | Pass    |
|                                   | 2555            | Outer Full    | 28.91               | 37.00                | /           | Pass    |
| CP-OFDM 64 QAM                    | 2515            | Outer Full    | 28.94               | 33.93                | /           | Pass    |
|                                   | 2535            | Outer Full    | 28.76               | 32.02                | /           | Pass    |
|                                   | 2555            | Outer Full    | 28.93               | 36.82                | /           | Pass    |
| CP-OFDM 256 QAM                   | 2515            | Outer Full    | 28.87               | 30.82                | /           | Pass    |
|                                   | 2535            | Outer Full    | 28.70               | 30.77                | /           | Pass    |
|                                   | 2555            | Outer Full    | 28.87               | 30.81                | /           | Pass    |



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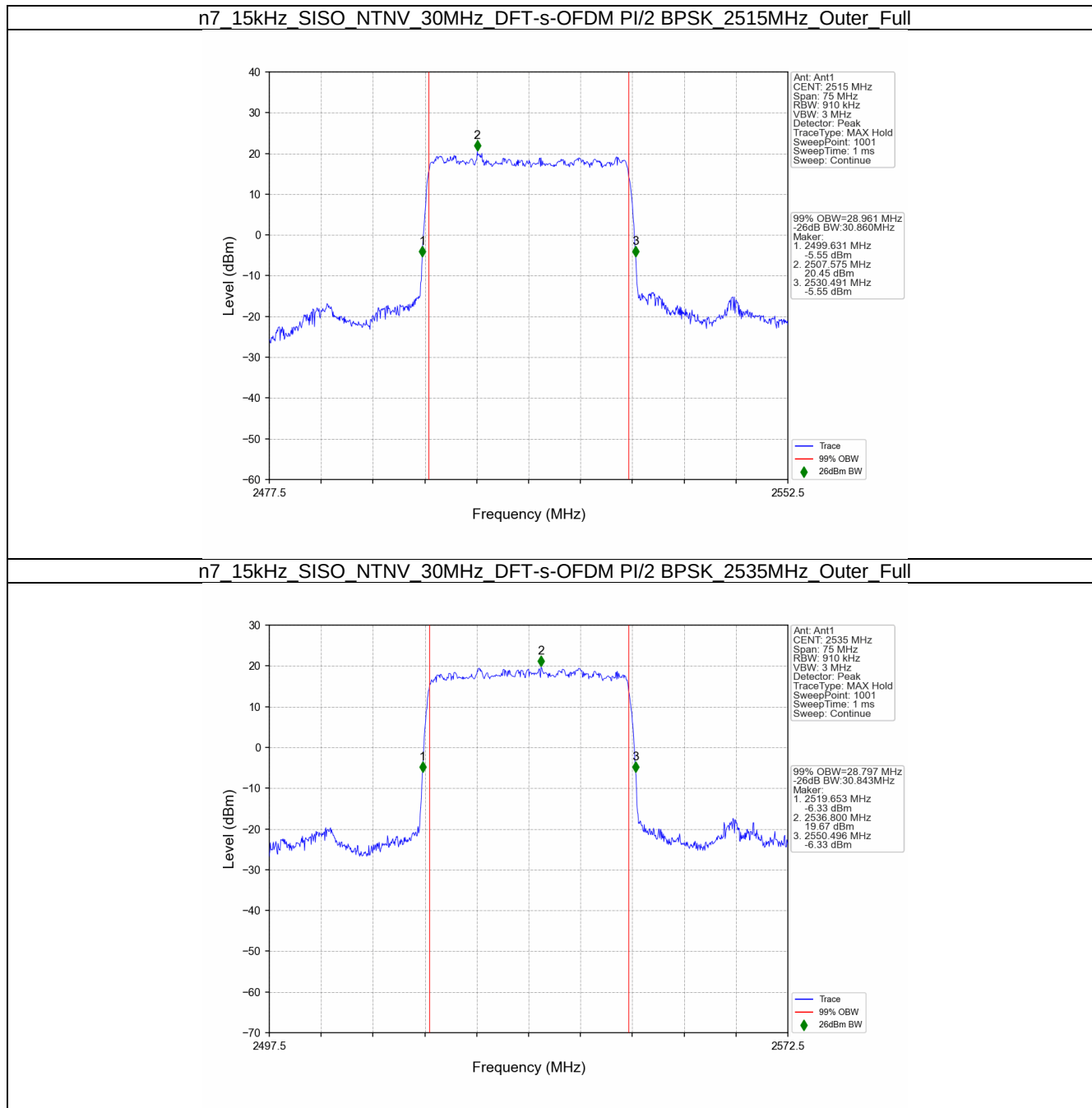
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### 4.6.2 Test Graph



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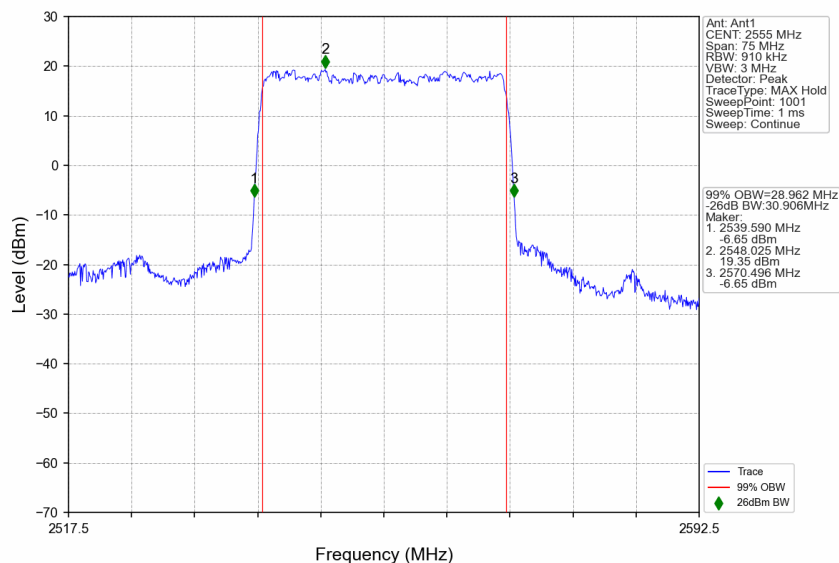
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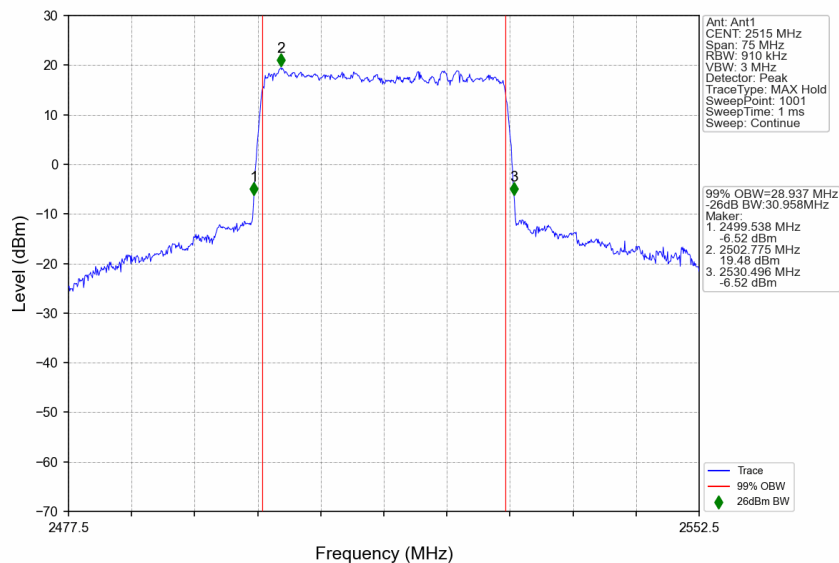
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n7\_15kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM PI/2 BPSK\_2555MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_2515MHz\_Outer\_Full



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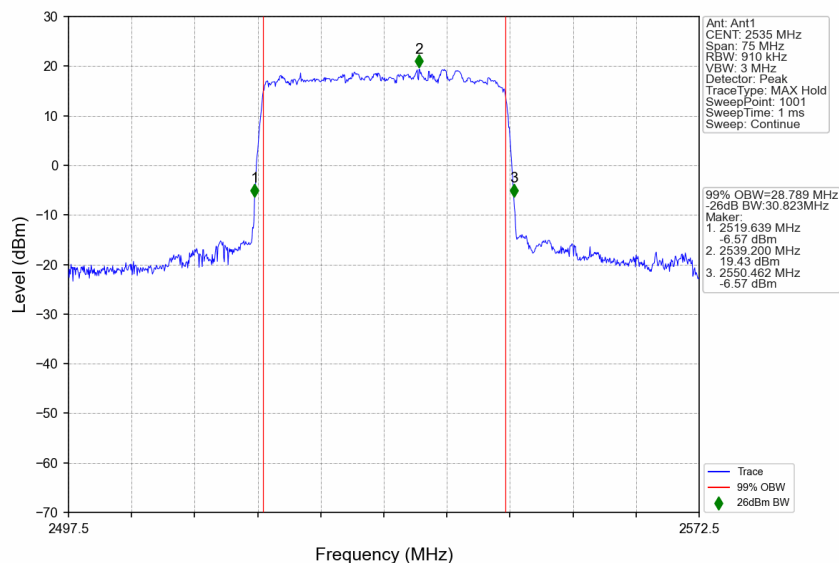
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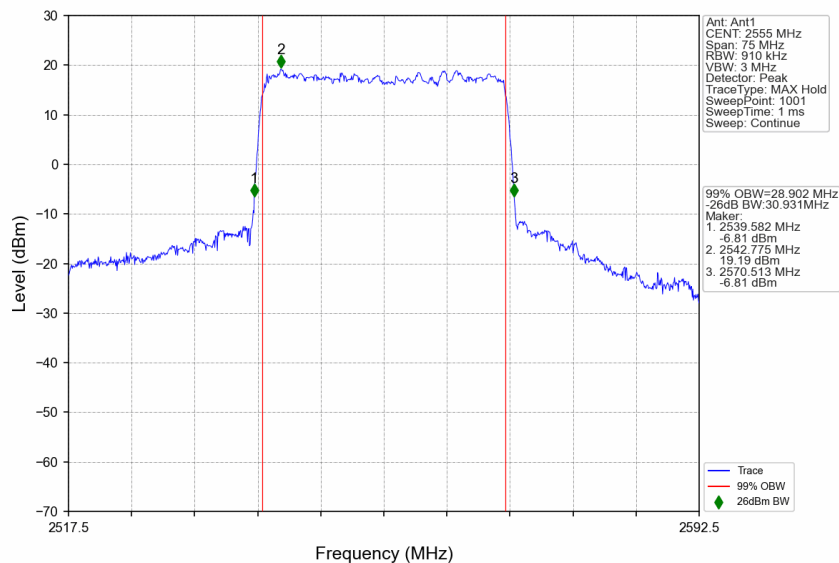
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n7\_15kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_QPSK\_2535MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_QPSK\_2555MHz\_Outer\_Full



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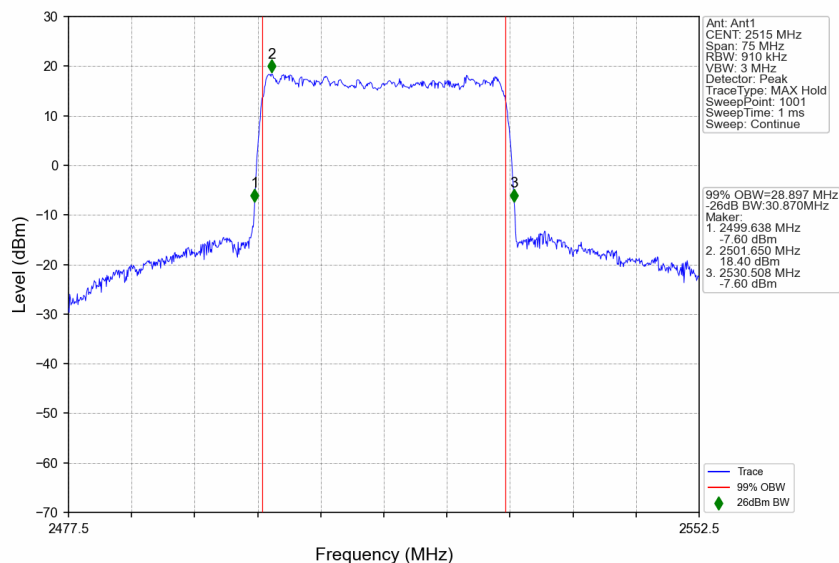
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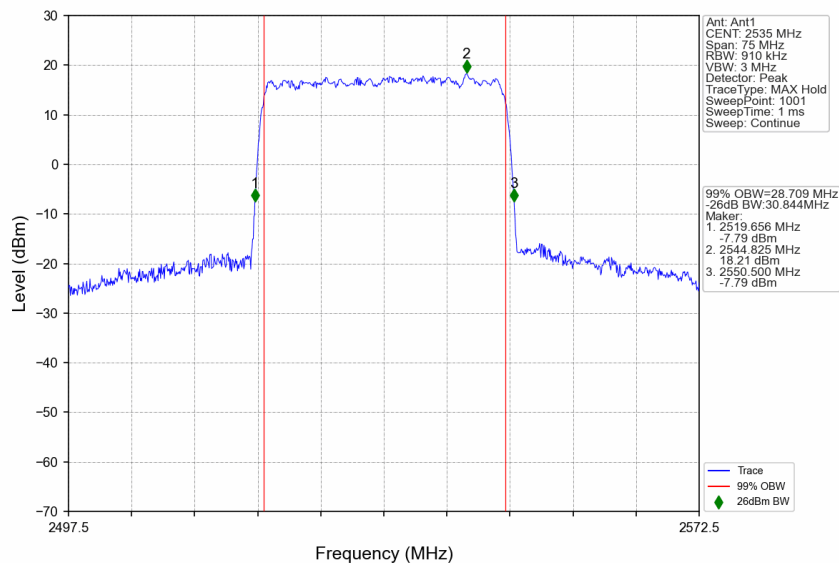
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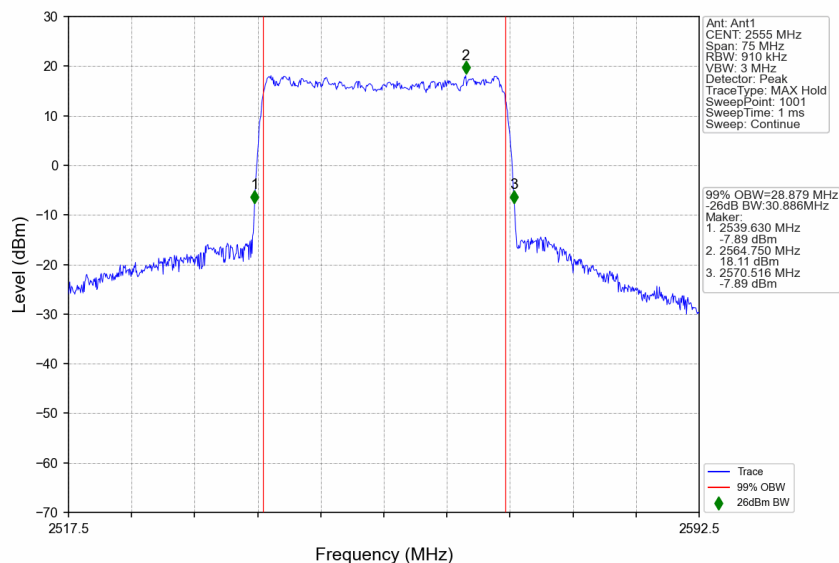
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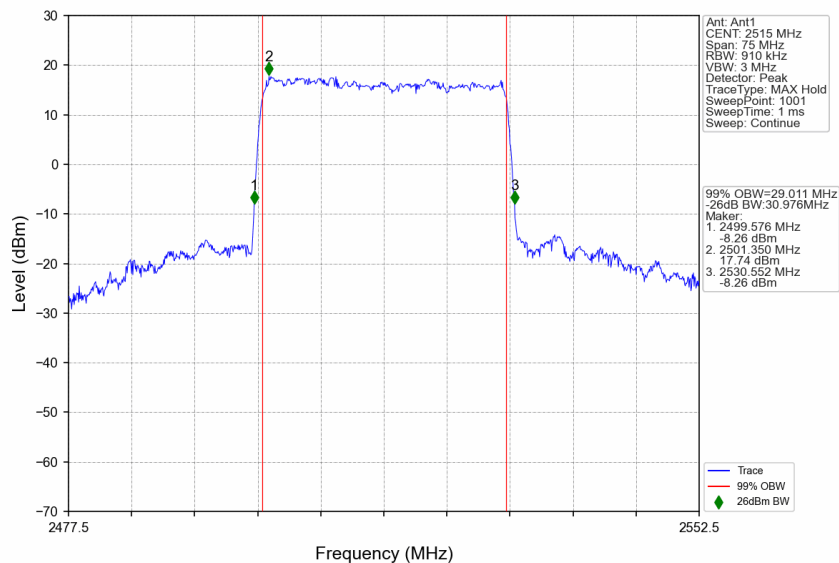
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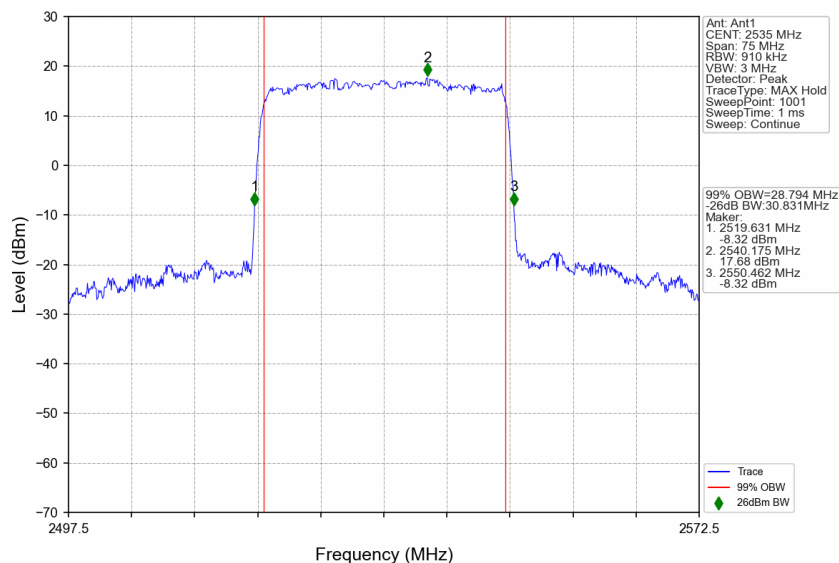
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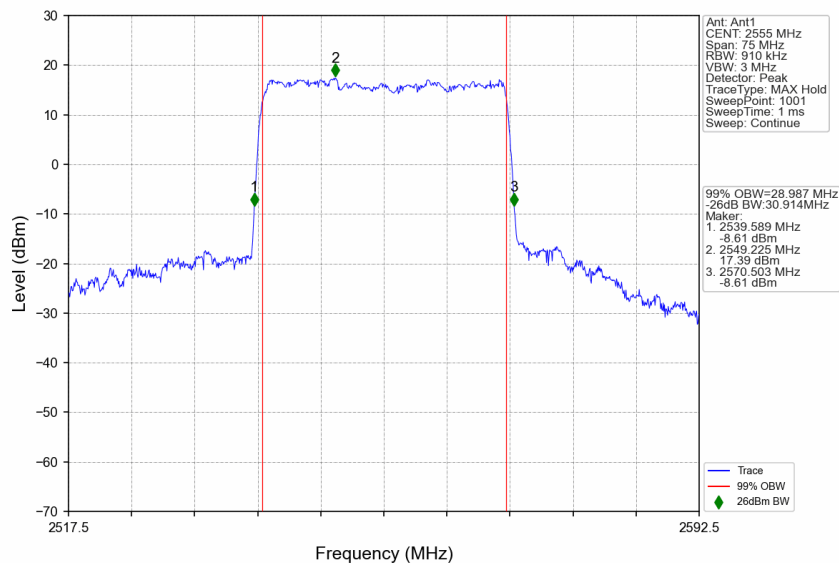
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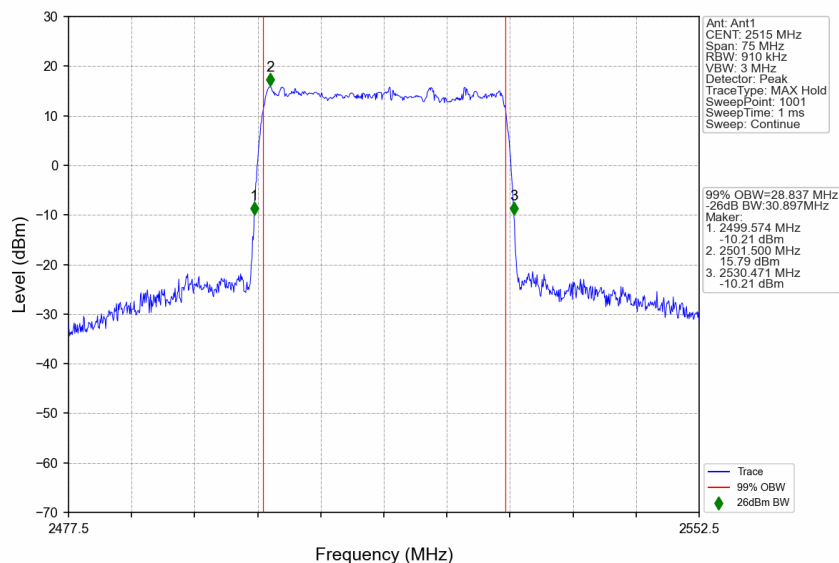
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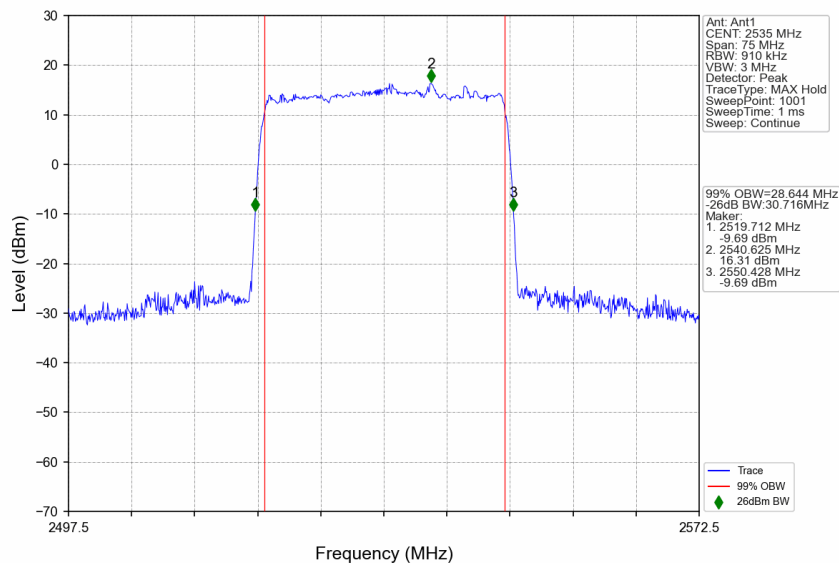
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n7\_15kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_256\_QAM\_2515MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_256\_QAM\_2535MHz\_Outer\_Full



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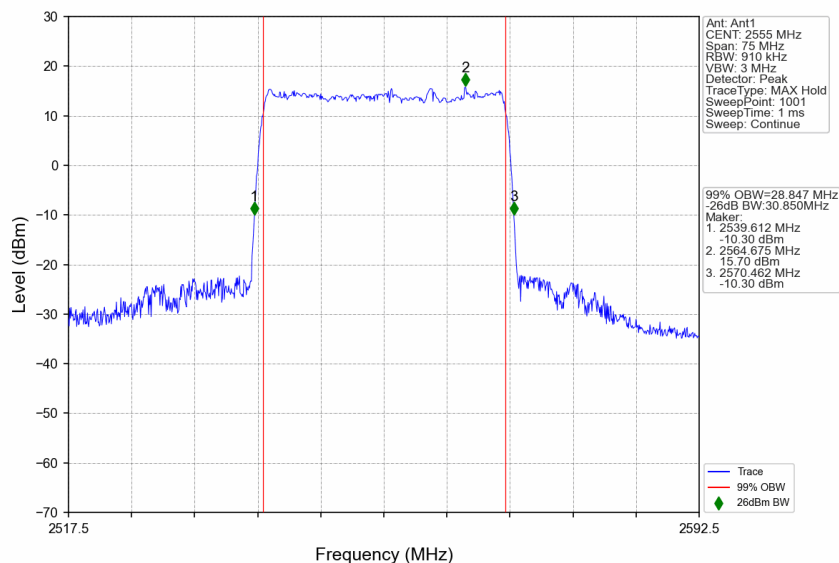
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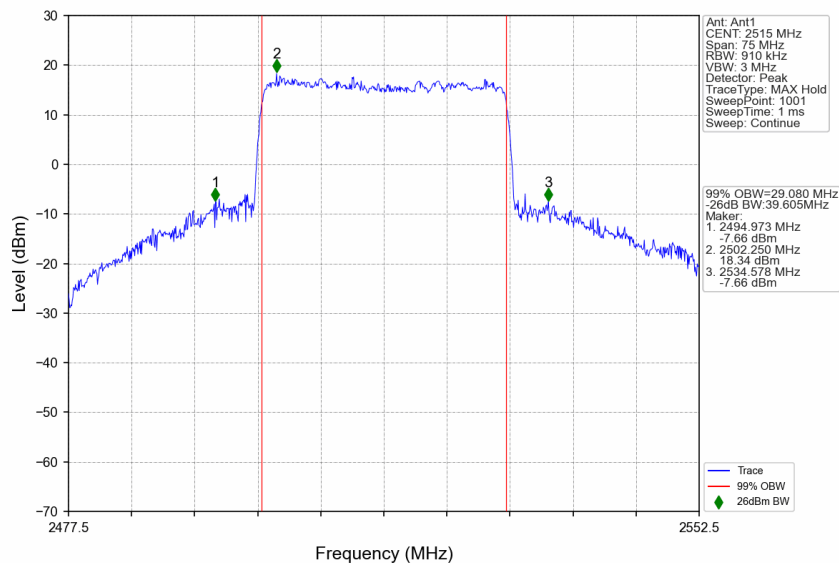
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n7\_15kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_256 QAM\_2555MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_2515MHz\_Outer\_Full



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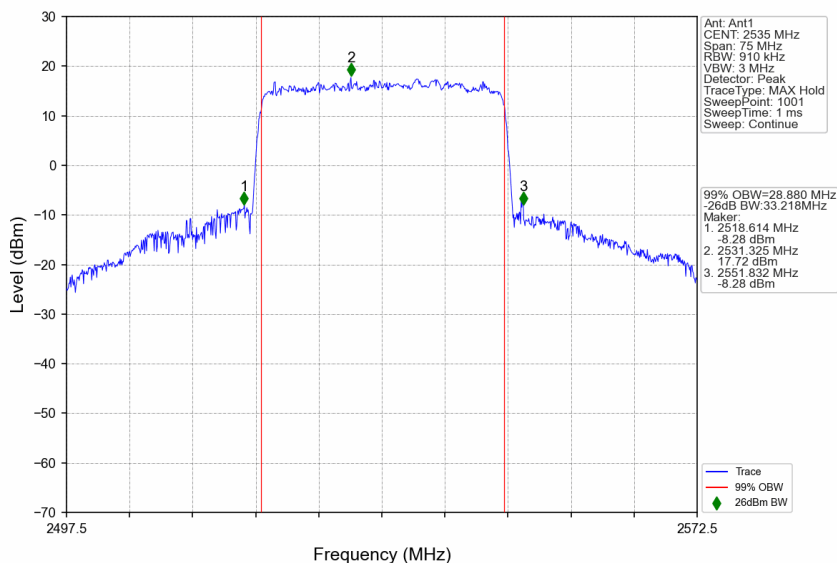
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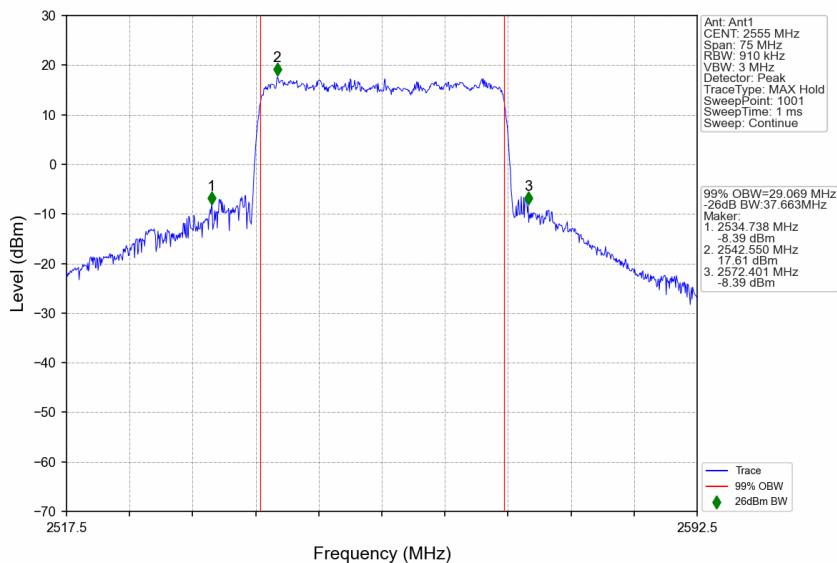
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n7\_15kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_QPSK\_2535MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_QPSK\_2555MHz\_Outer\_Full



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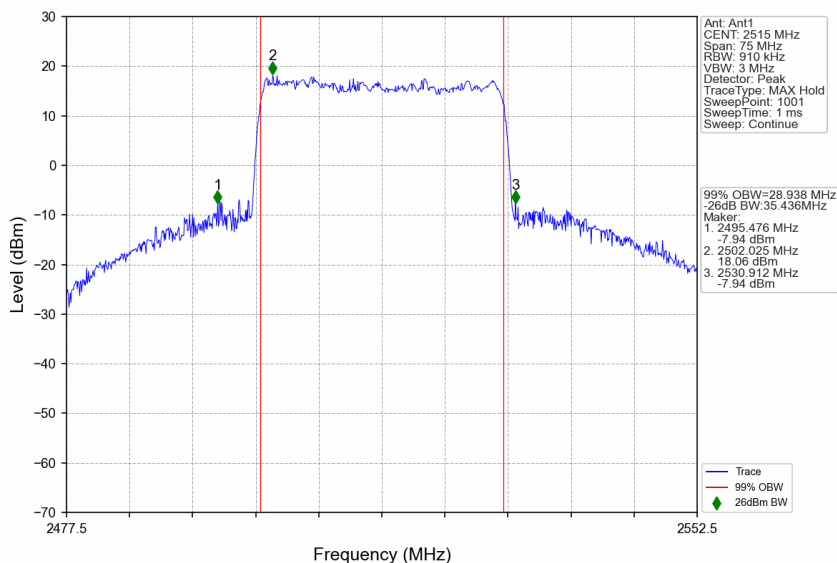
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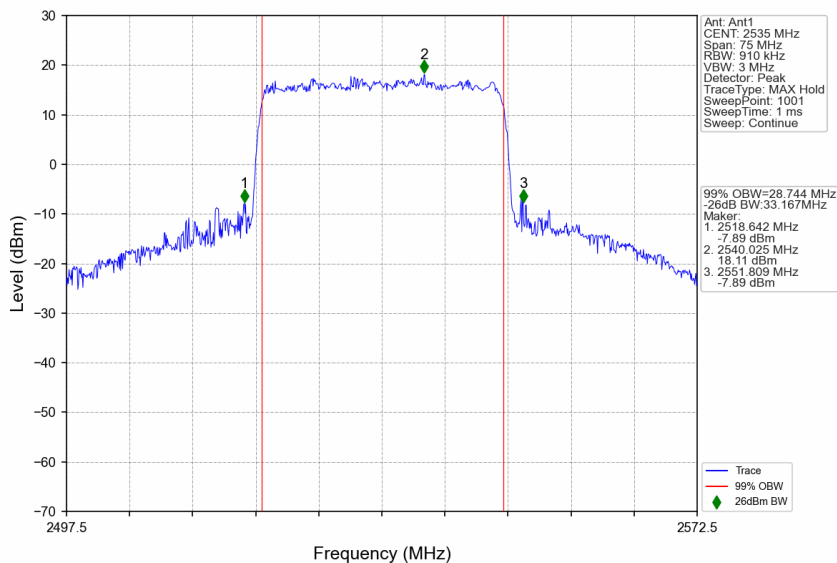
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n7\_15kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_16\_QAM\_2515MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_30MHz\_CP-OFDM\_16\_QAM\_2535MHz\_Outer\_Full



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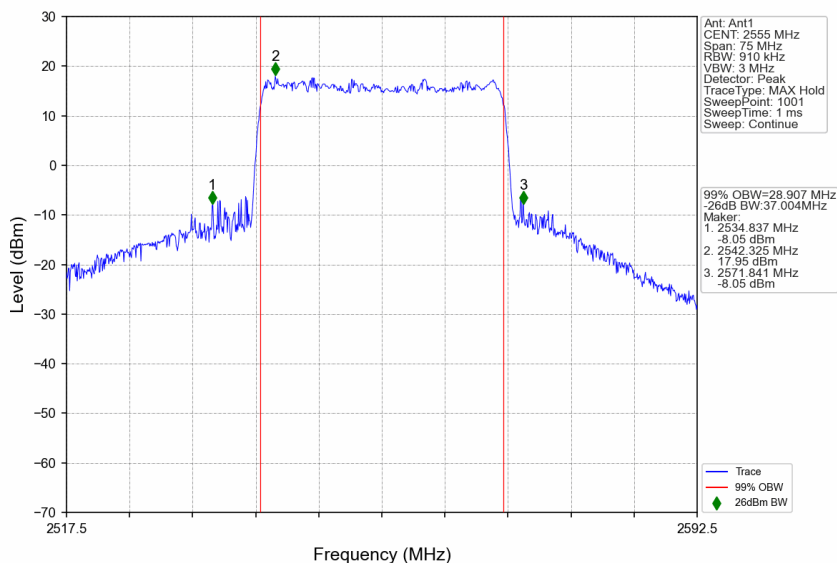
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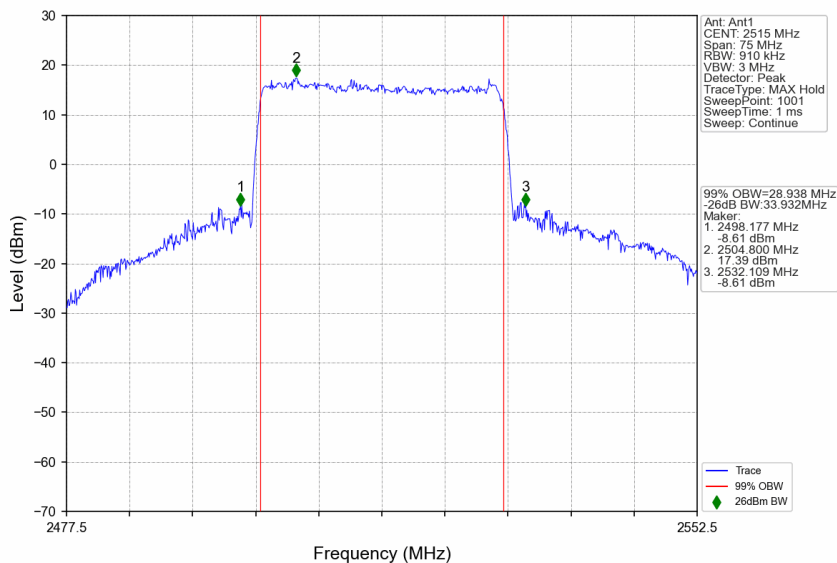
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n7\_15kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 16 QAM 2555MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 64 QAM 2515MHz\_Outer\_Full



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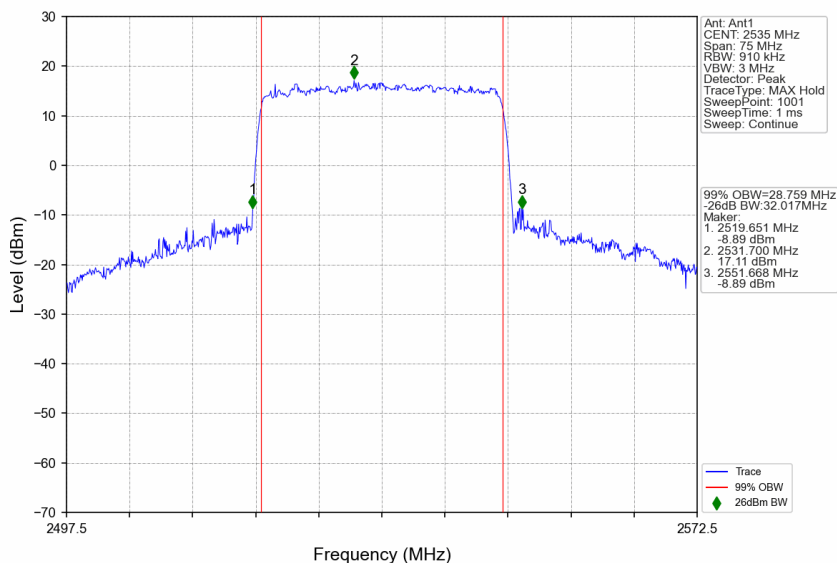
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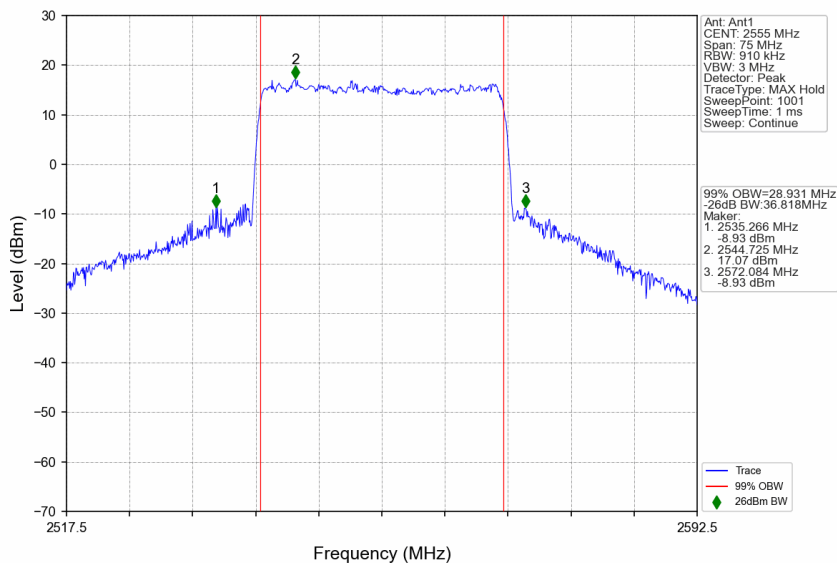
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n7\_15kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 64 QAM 2535MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 64 QAM 2555MHz\_Outer\_Full



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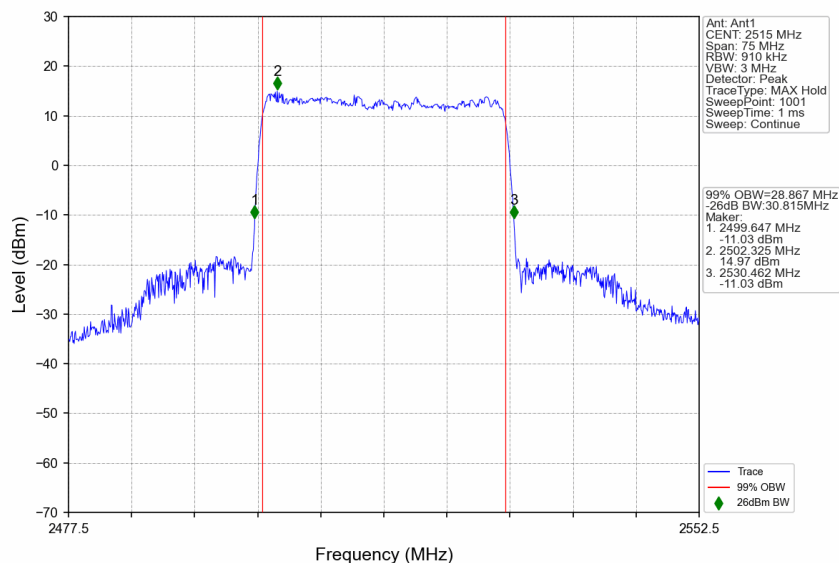
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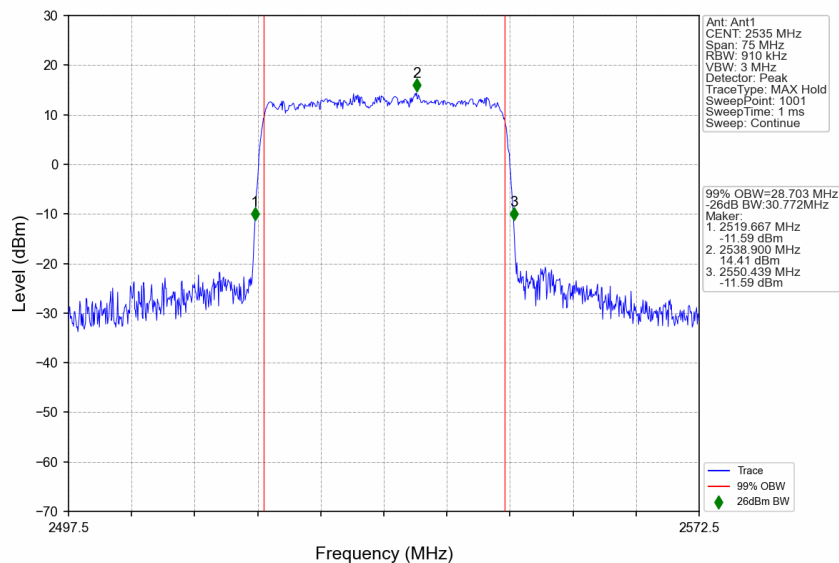
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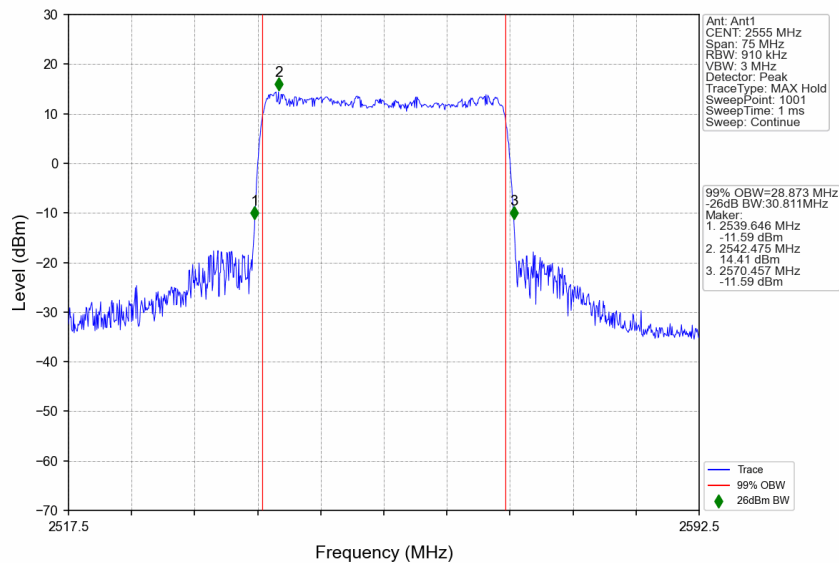
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## 4.7 15k\_SISO\_40MHz\_NTNV

### 4.7.1 Test Result

| 5G NR n7 SCS=15kHz SISO 40MHz NTN |                 |               |                     |                      |             |         |
|-----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK              | 2520            | Outer Full    | 39.08               | 41.74                | /           | Pass    |
|                                   | 2535            | Outer Full    | 38.78               | 41.50                | /           | Pass    |
|                                   | 2550            | Outer Full    | 38.92               | 41.49                | /           | Pass    |
| DFT-s-OFDM QPSK                   | 2520            | Outer Full    | 39.16               | 41.65                | /           | Pass    |
|                                   | 2535            | Outer Full    | 38.95               | 41.51                | /           | Pass    |
|                                   | 2550            | Outer Full    | 39.04               | 41.65                | /           | Pass    |
| DFT-s-OFDM 16 QAM                 | 2520            | Outer Full    | 38.99               | 41.58                | /           | Pass    |
|                                   | 2535            | Outer Full    | 38.76               | 41.51                | /           | Pass    |
|                                   | 2550            | Outer Full    | 38.87               | 41.56                | /           | Pass    |
| DFT-s-OFDM 64 QAM                 | 2520            | Outer Full    | 39.12               | 41.67                | /           | Pass    |
|                                   | 2535            | Outer Full    | 38.88               | 41.49                | /           | Pass    |
|                                   | 2550            | Outer Full    | 39.07               | 41.57                | /           | Pass    |
| DFT-s-OFDM 256 QAM                | 2520            | Outer Full    | 39.02               | 41.54                | /           | Pass    |
|                                   | 2535            | Outer Full    | 38.84               | 41.40                | /           | Pass    |
|                                   | 2550            | Outer Full    | 39.00               | 41.52                | /           | Pass    |
| CP-OFDM QPSK                      | 2520            | Outer Full    | 39.13               | 53.16                | /           | Pass    |
|                                   | 2535            | Outer Full    | 38.88               | 52.62                | /           | Pass    |
|                                   | 2550            | Outer Full    | 38.99               | 41.93                | /           | Pass    |
| CP-OFDM 16 QAM                    | 2520            | Outer Full    | 39.04               | 41.62                | /           | Pass    |
|                                   | 2535            | Outer Full    | 38.76               | 41.44                | /           | Pass    |
|                                   | 2550            | Outer Full    | 38.93               | 41.64                | /           | Pass    |
| CP-OFDM 64 QAM                    | 2520            | Outer Full    | 38.97               | 41.63                | /           | Pass    |
|                                   | 2535            | Outer Full    | 38.76               | 41.53                | /           | Pass    |
|                                   | 2550            | Outer Full    | 38.92               | 41.55                | /           | Pass    |
| CP-OFDM 256 QAM                   | 2520            | Outer Full    | 39.01               | 41.60                | /           | Pass    |
|                                   | 2535            | Outer Full    | 38.80               | 41.56                | /           | Pass    |
|                                   | 2550            | Outer Full    | 38.92               | 41.49                | /           | Pass    |



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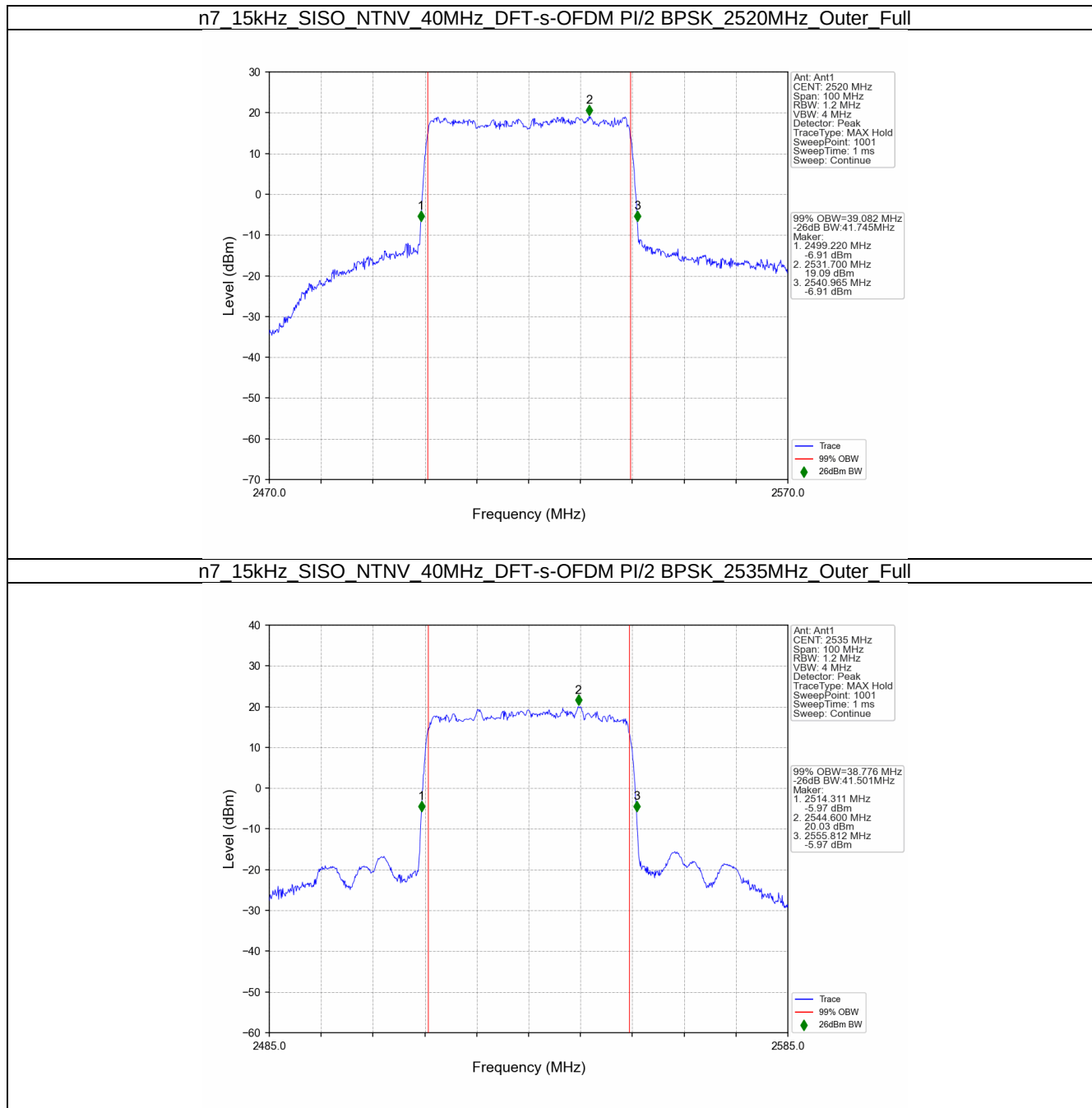
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### 4.7.2 Test Graph



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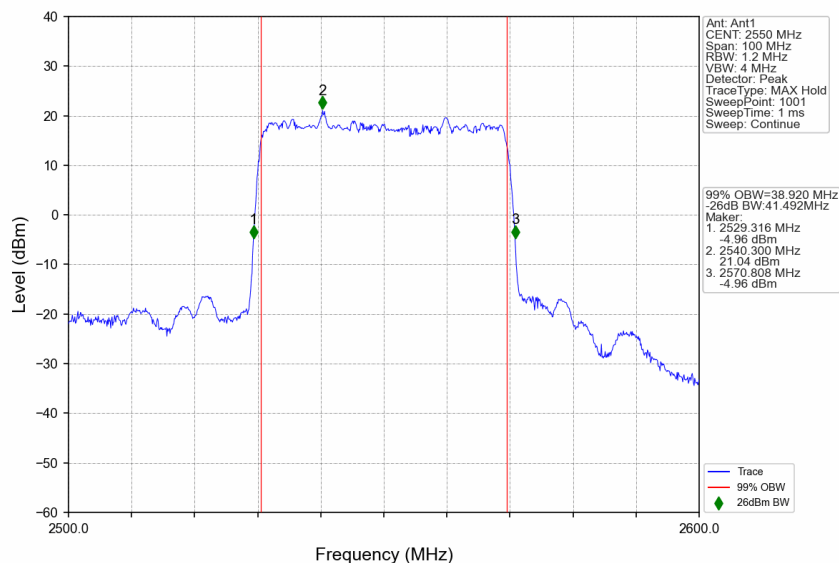
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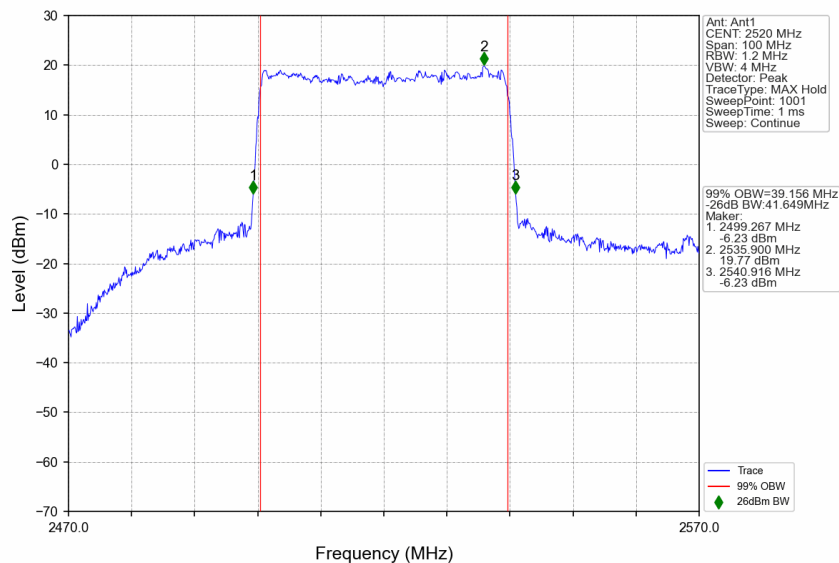
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n7\_15kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_2550MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM QPSK\_2520MHz\_Outer\_Full



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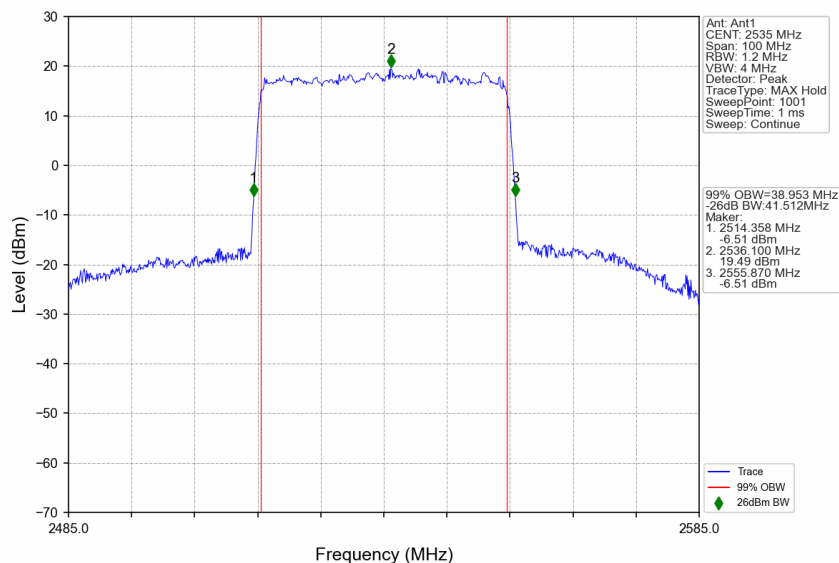
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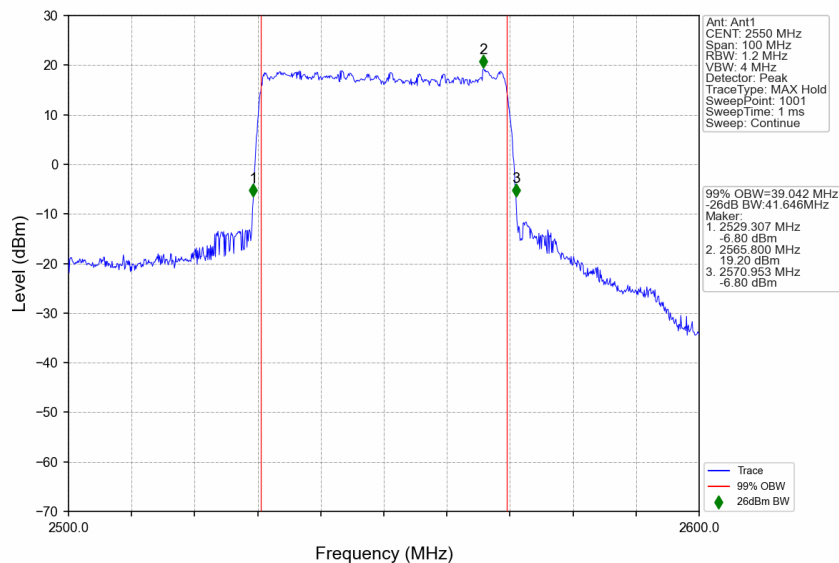
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n7\_15kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_QPSK\_2535MHz\_Outer\_Full



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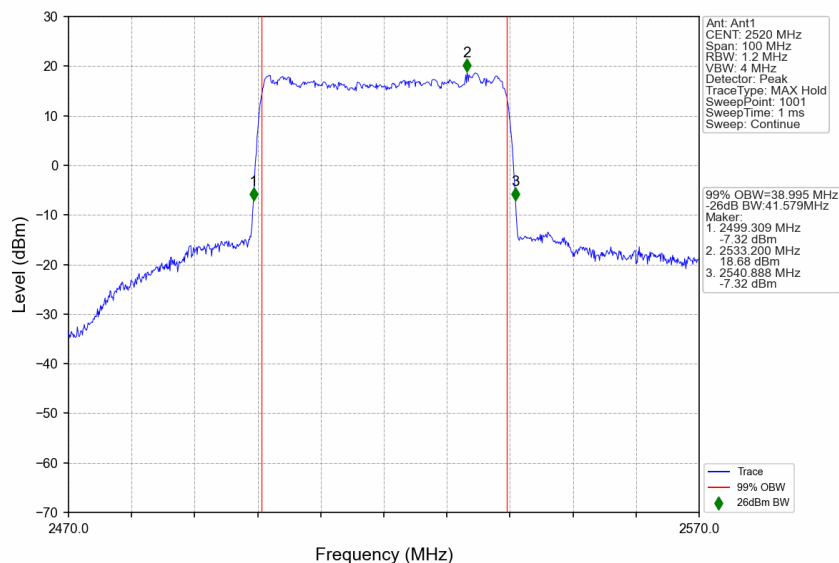
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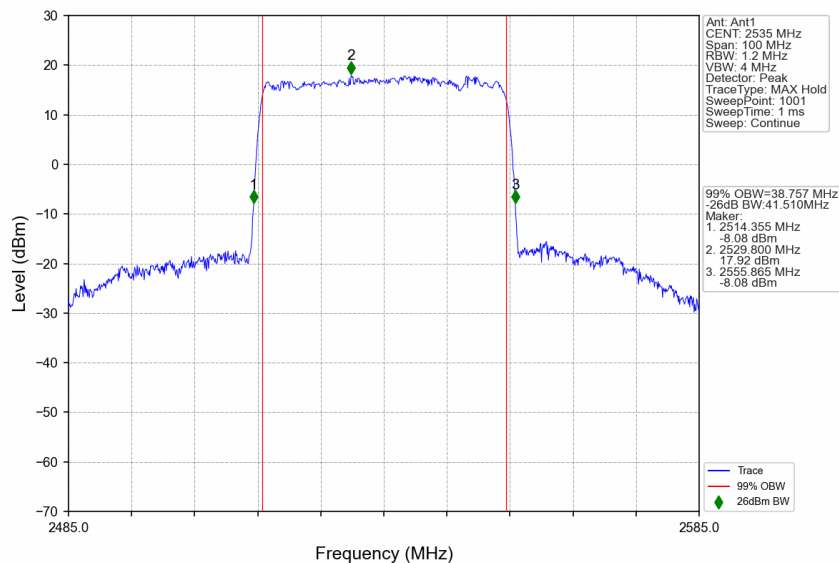
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n7\_15kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_16\_QAM\_2520MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_16\_QAM\_2535MHz\_Outer\_Full



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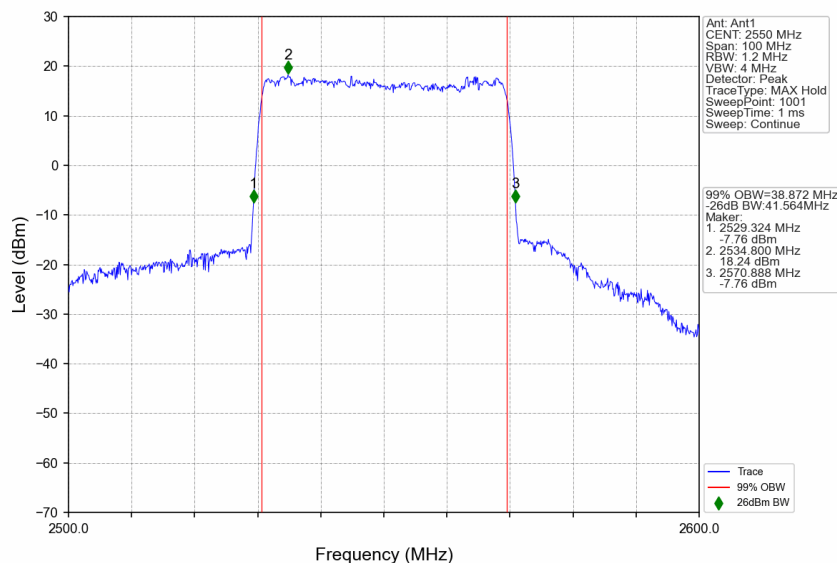
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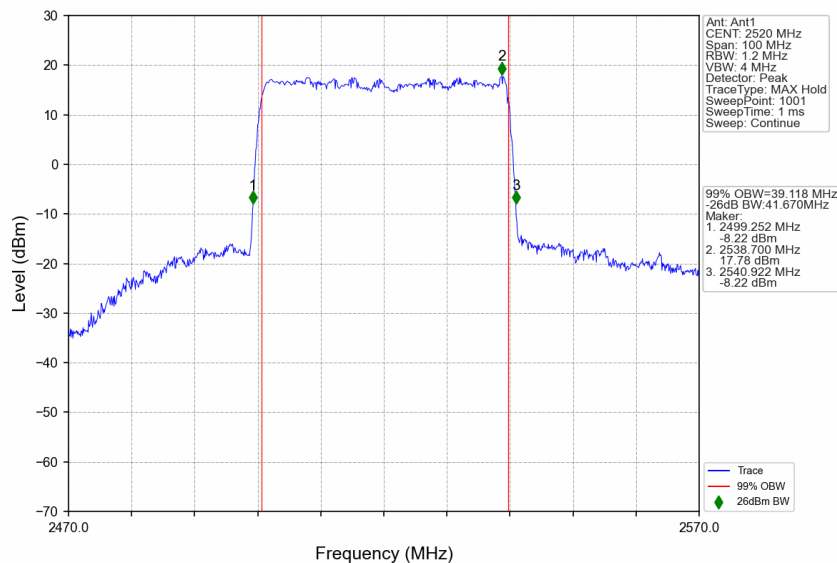
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n7\_15kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_64\_QAM\_2520MHz\_Outer\_Full



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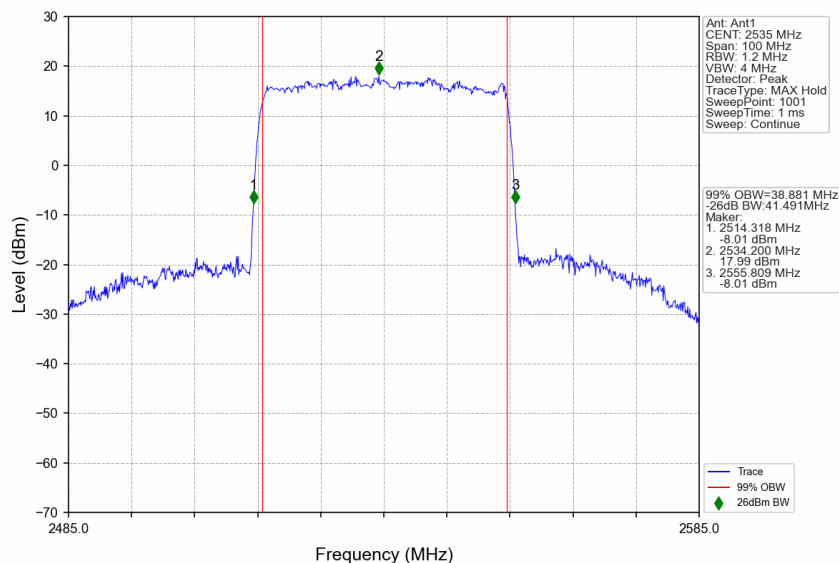
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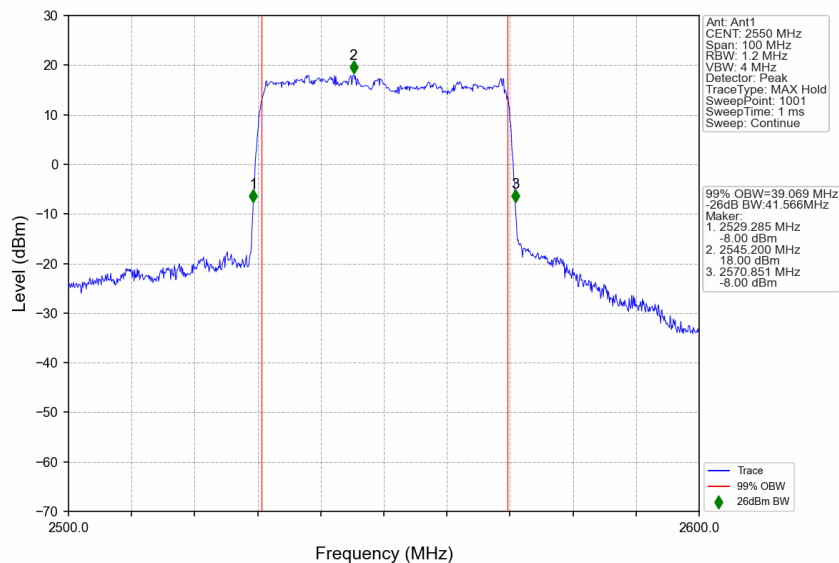
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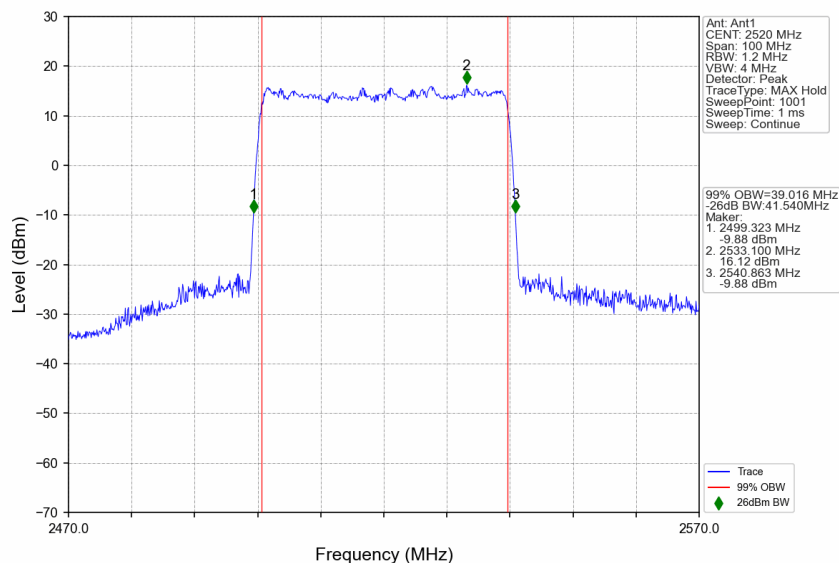
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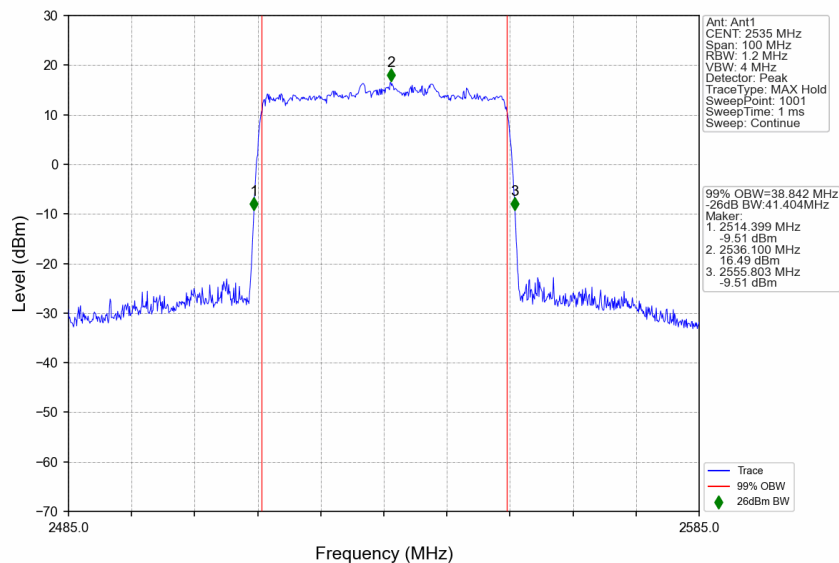
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n7\_15kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_256\_QAM\_2520MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_256\_QAM\_2535MHz\_Outer\_Full



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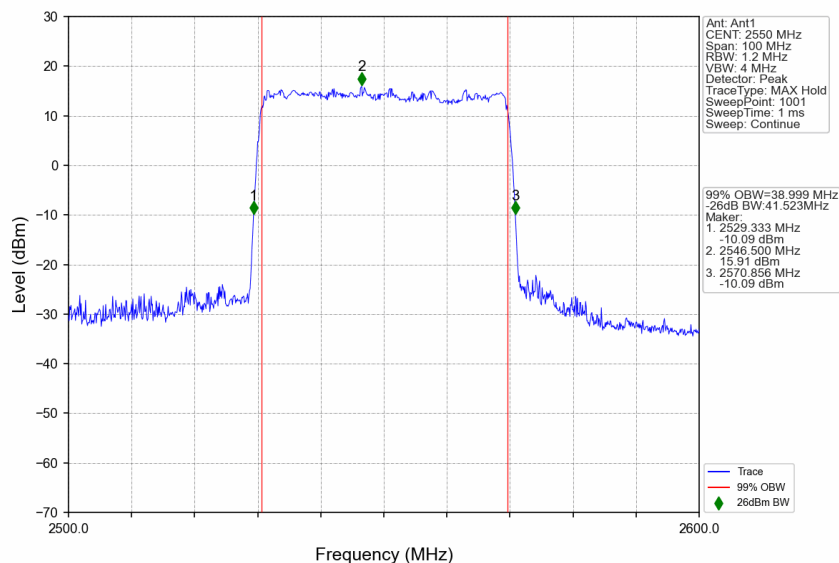
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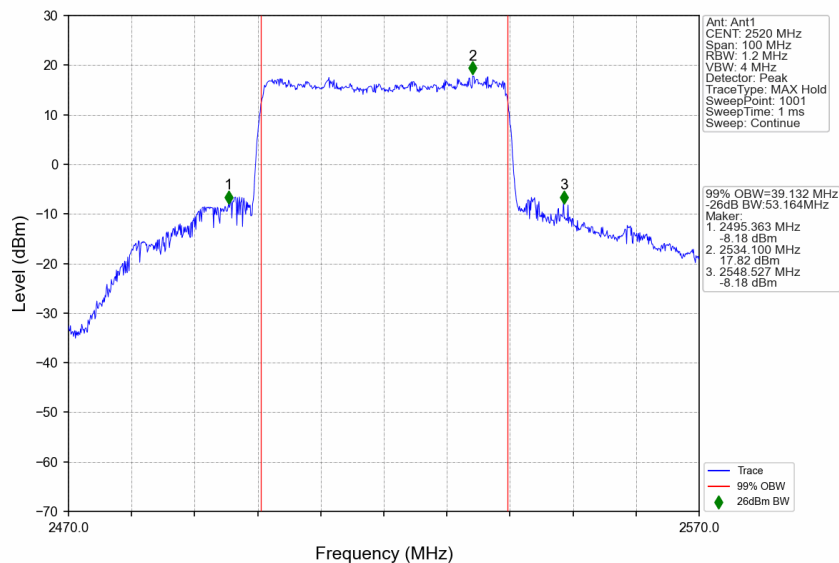
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n7\_15kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_256 QAM\_2550MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_2520MHz\_Outer\_Full



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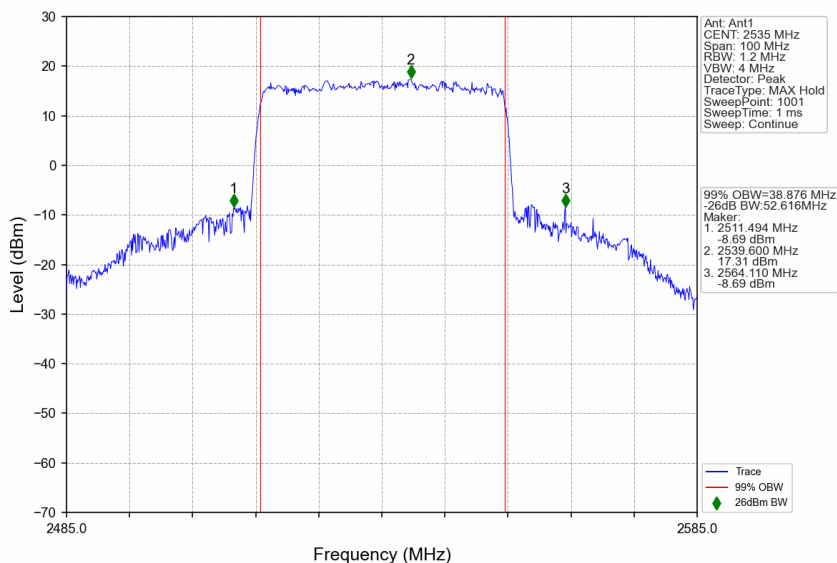
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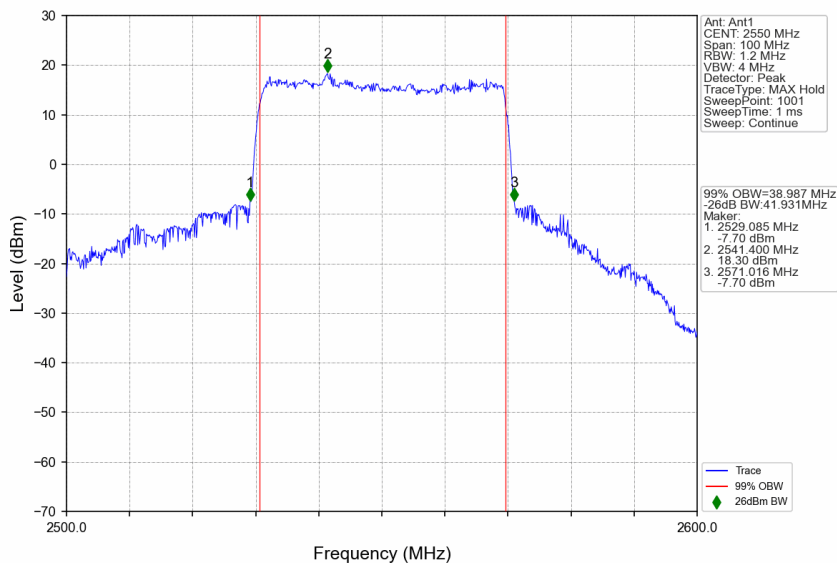
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n7\_15kHz\_SISO\_NTNV\_40MHz\_CP-OFDM\_QPSK\_2535MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_40MHz\_CP-OFDM\_QPSK\_2550MHz\_Outer\_Full



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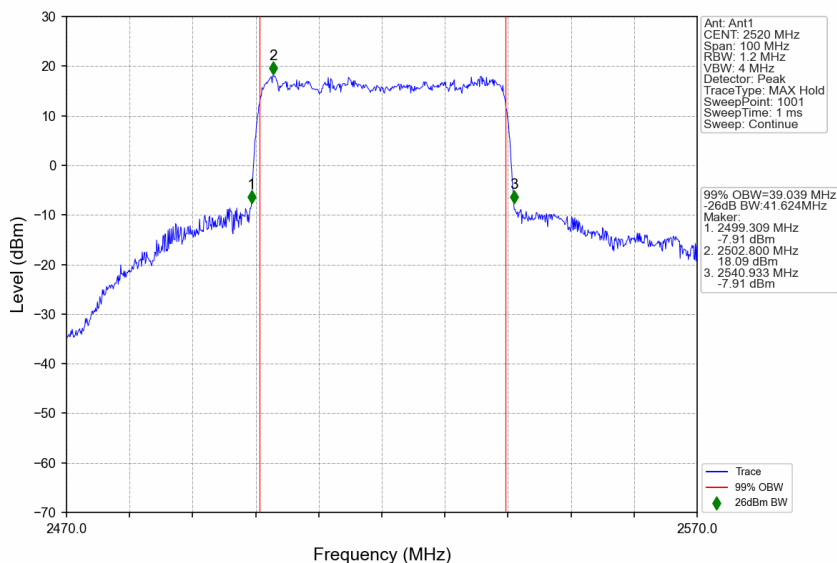
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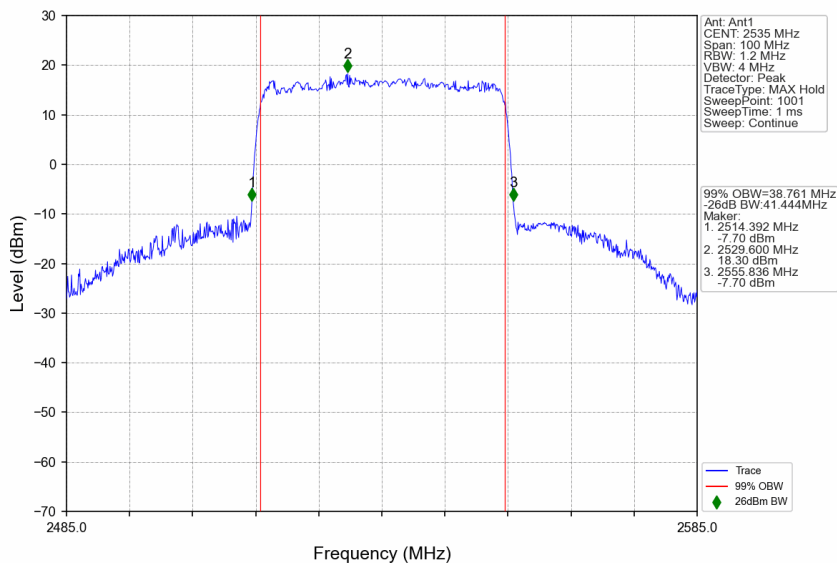
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n7\_15kHz\_SISO\_NTNV\_40MHz\_CP-OFDM\_16\_QAM\_2520MHz\_Outer\_Full



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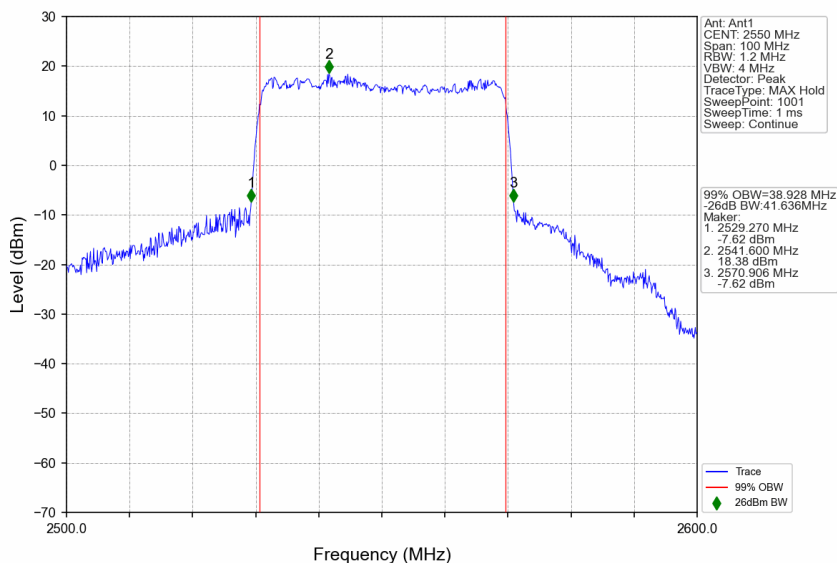
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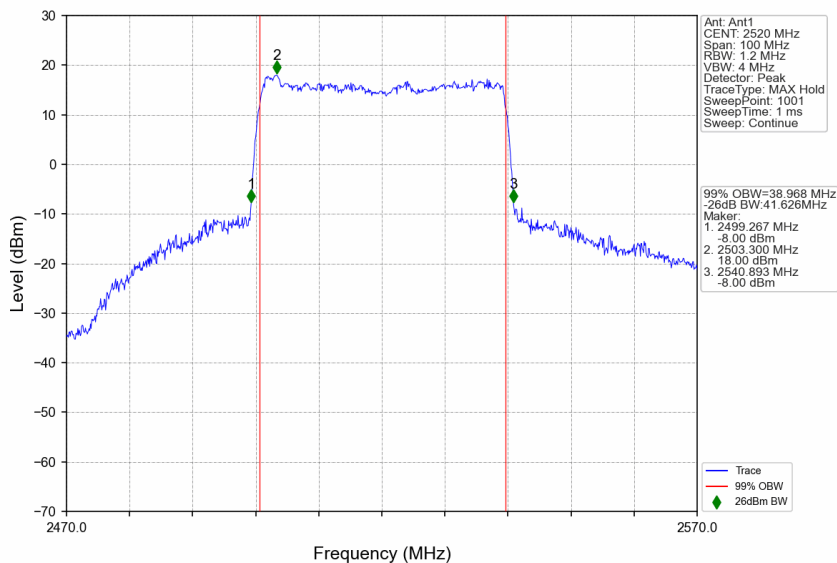
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n7\_15kHz\_SISO\_NTV\_40MHz\_CP-OFDM 16 QAM 2550MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTV\_40MHz\_CP-OFDM 64 QAM 2520MHz\_Outer\_Full



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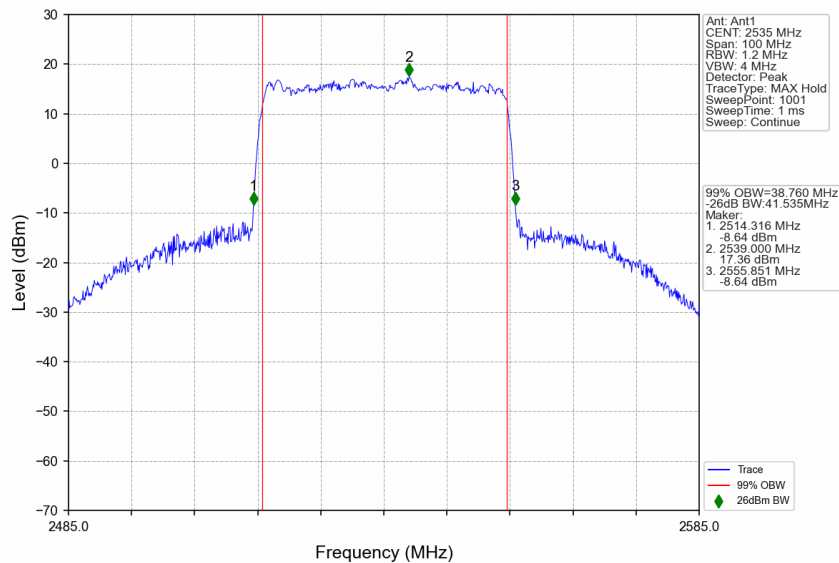
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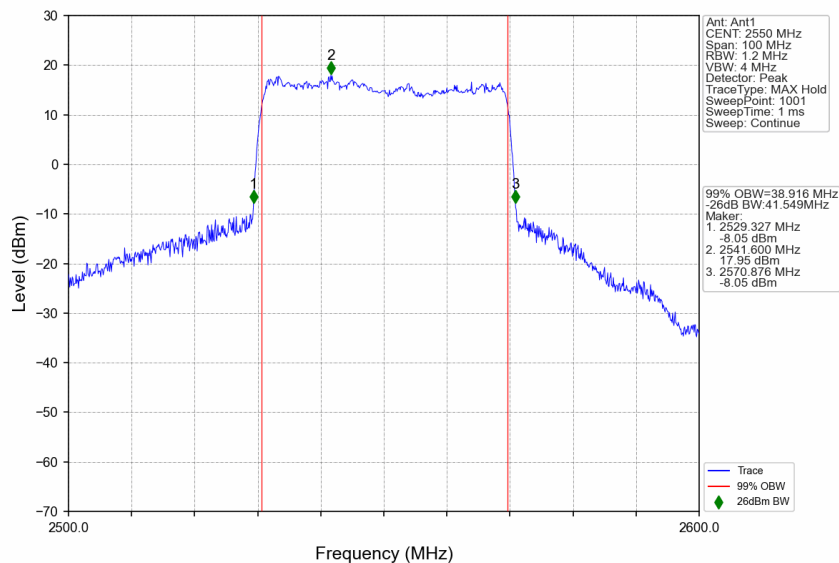
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n7\_15kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 64 QAM 2535MHz\_Outer\_Full



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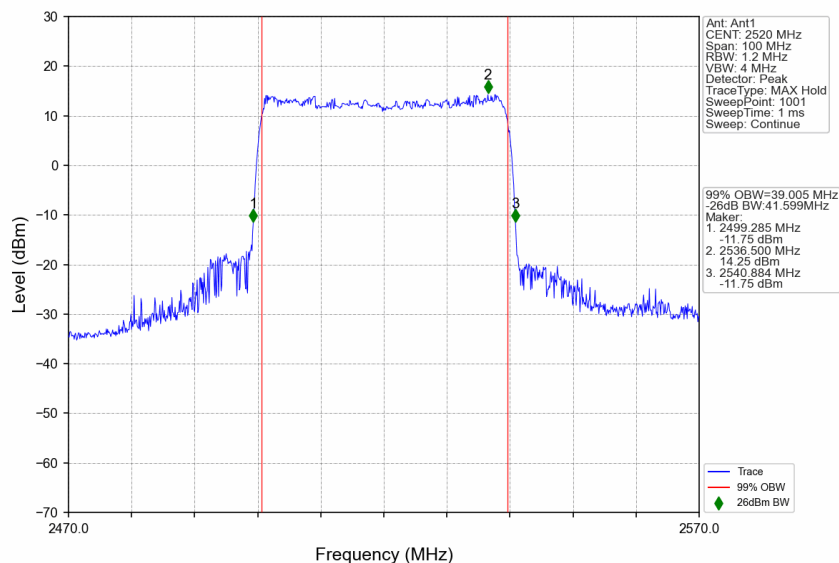
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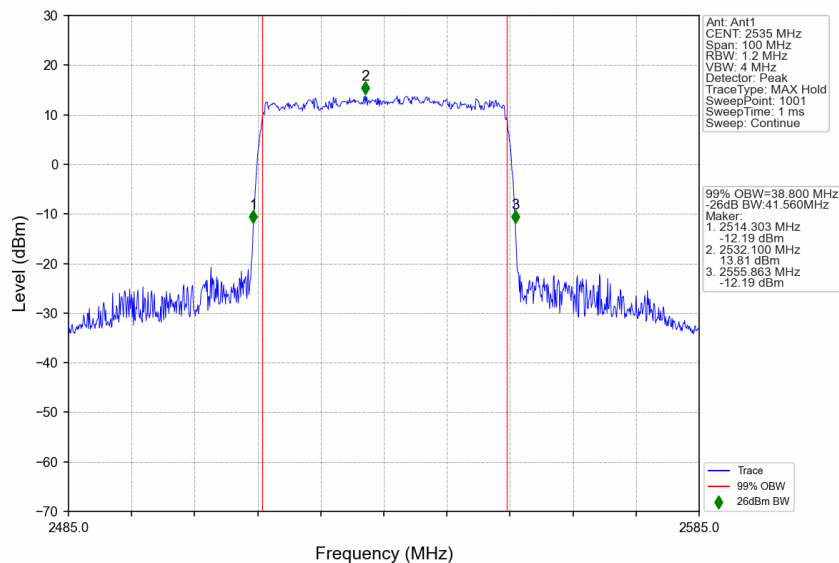
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n7\_15kHz\_SISO\_NTNV\_40MHz\_CP-OFDM\_256\_QAM\_2520MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_40MHz\_CP-OFDM\_256\_QAM\_2535MHz\_Outer\_Full



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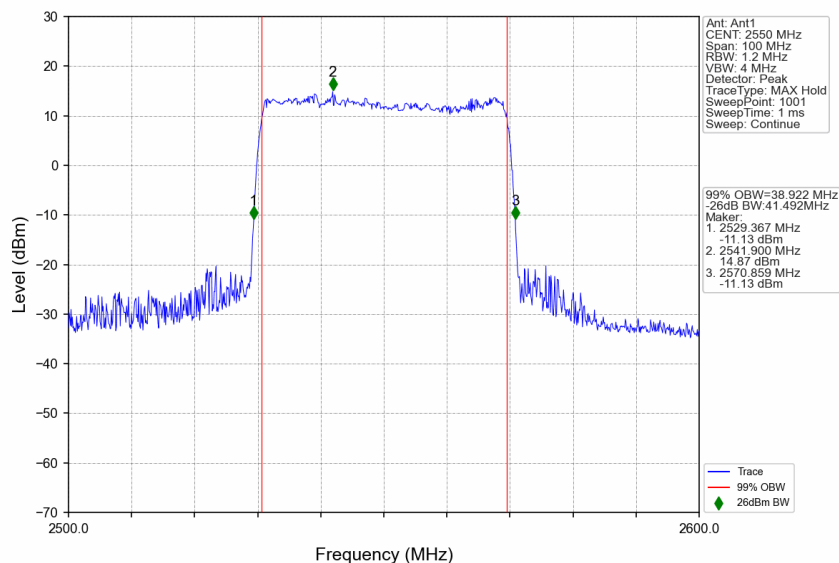
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n7\_15kHz\_SISO\_NTNV\_40MHz\_CP-OFDM\_256\_QAM\_2550MHz\_Outer\_Full



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## 4.8 15k\_SISO\_50MHz\_NTNV

### 4.8.1 Test Result

| 5G NR n7 SCS=15kHz SISO 50MHz NTN |                 |               |                     |                      |             |         |
|-----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK              | 2525            | Outer Full    | 48.71               | 51.92                | /           | Pass    |
|                                   | 2535            | Outer Full    | 48.62               | 51.90                | /           | Pass    |
|                                   | 2545            | Outer Full    | 48.66               | 51.94                | /           | Pass    |
| DFT-s-OFDM QPSK                   | 2525            | Outer Full    | 48.62               | 51.96                | /           | Pass    |
|                                   | 2535            | Outer Full    | 48.55               | 51.90                | /           | Pass    |
|                                   | 2545            | Outer Full    | 48.63               | 51.98                | /           | Pass    |
| DFT-s-OFDM 16 QAM                 | 2525            | Outer Full    | 48.59               | 51.84                | /           | Pass    |
|                                   | 2535            | Outer Full    | 48.49               | 51.80                | /           | Pass    |
|                                   | 2545            | Outer Full    | 48.60               | 51.77                | /           | Pass    |
| DFT-s-OFDM 64 QAM                 | 2525            | Outer Full    | 48.67               | 51.91                | /           | Pass    |
|                                   | 2535            | Outer Full    | 48.49               | 51.85                | /           | Pass    |
|                                   | 2545            | Outer Full    | 48.63               | 51.86                | /           | Pass    |
| DFT-s-OFDM 256 QAM                | 2525            | Outer Full    | 48.69               | 51.90                | /           | Pass    |
|                                   | 2535            | Outer Full    | 48.58               | 51.78                | /           | Pass    |
|                                   | 2545            | Outer Full    | 48.65               | 51.81                | /           | Pass    |
| CP-OFDM QPSK                      | 2525            | Outer Full    | 48.78               | 57.77                | /           | Pass    |
|                                   | 2535            | Outer Full    | 48.58               | 56.92                | /           | Pass    |
|                                   | 2545            | Outer Full    | 48.66               | 55.04                | /           | Pass    |
| CP-OFDM 16 QAM                    | 2525            | Outer Full    | 48.86               | 60.88                | /           | Pass    |
|                                   | 2535            | Outer Full    | 48.68               | 60.19                | /           | Pass    |
|                                   | 2545            | Outer Full    | 48.76               | 59.81                | /           | Pass    |
| CP-OFDM 64 QAM                    | 2525            | Outer Full    | 48.58               | 51.92                | /           | Pass    |
|                                   | 2535            | Outer Full    | 48.45               | 51.89                | /           | Pass    |
|                                   | 2545            | Outer Full    | 48.50               | 51.83                | /           | Pass    |
| CP-OFDM 256 QAM                   | 2525            | Outer Full    | 48.53               | 51.92                | /           | Pass    |
|                                   | 2535            | Outer Full    | 48.37               | 51.87                | /           | Pass    |
|                                   | 2545            | Outer Full    | 48.45               | 51.83                | /           | Pass    |



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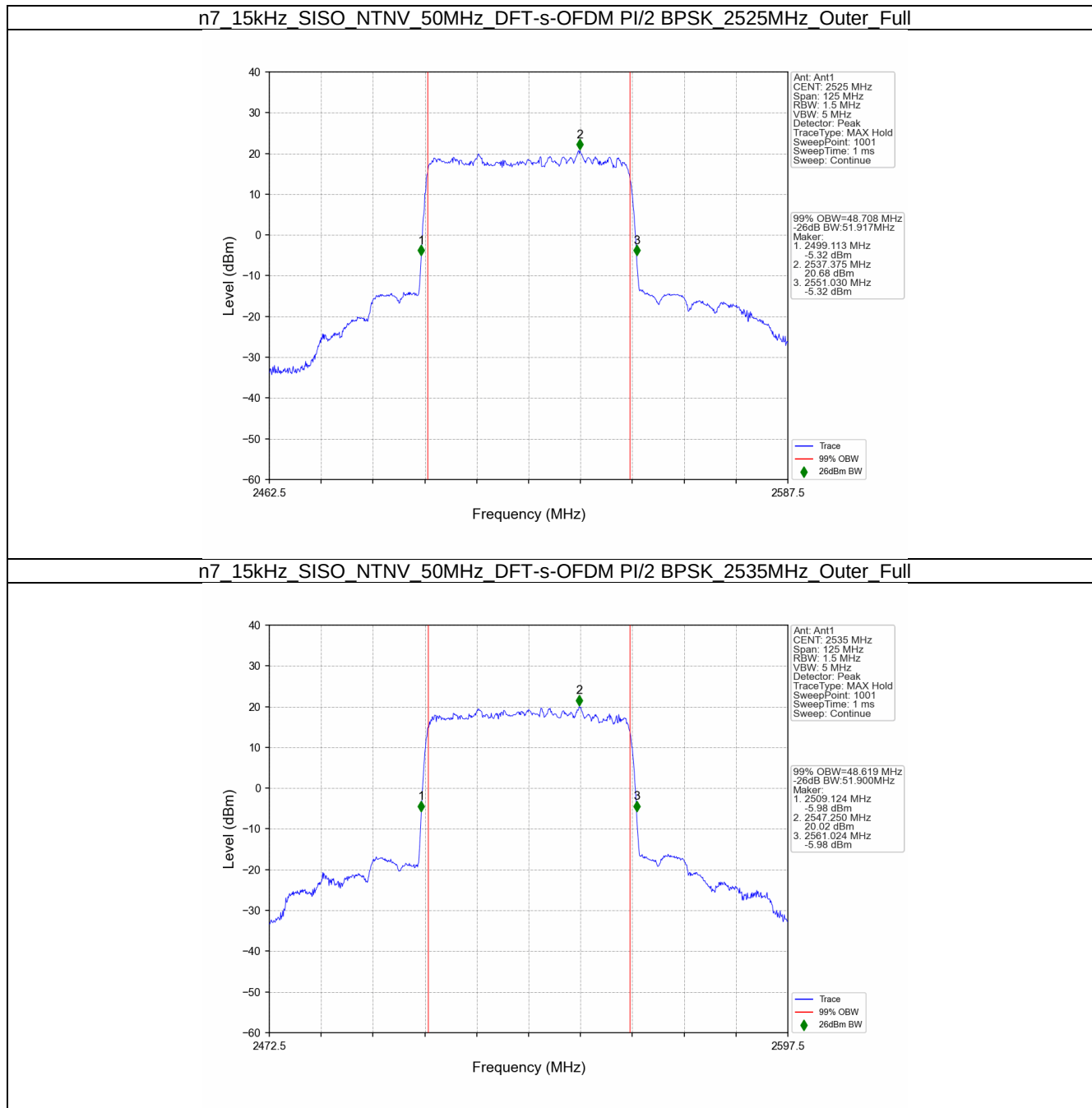
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### 4.8.2 Test Graph



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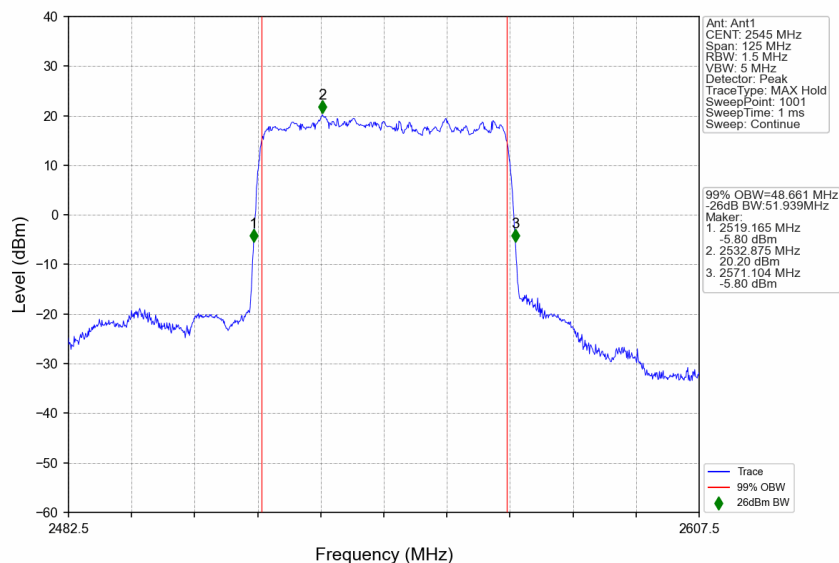
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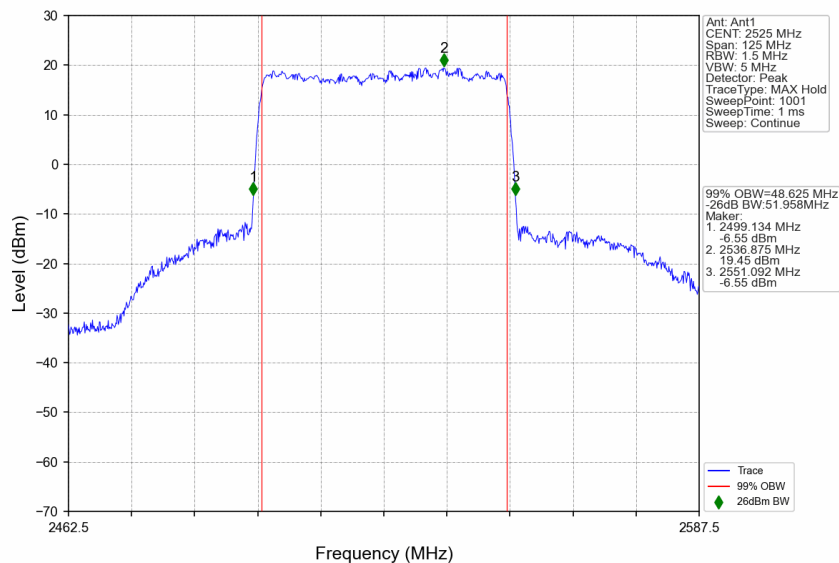
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n7\_15kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM PI/2 BPSK\_2545MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM QPSK\_2525MHz\_Outer\_Full



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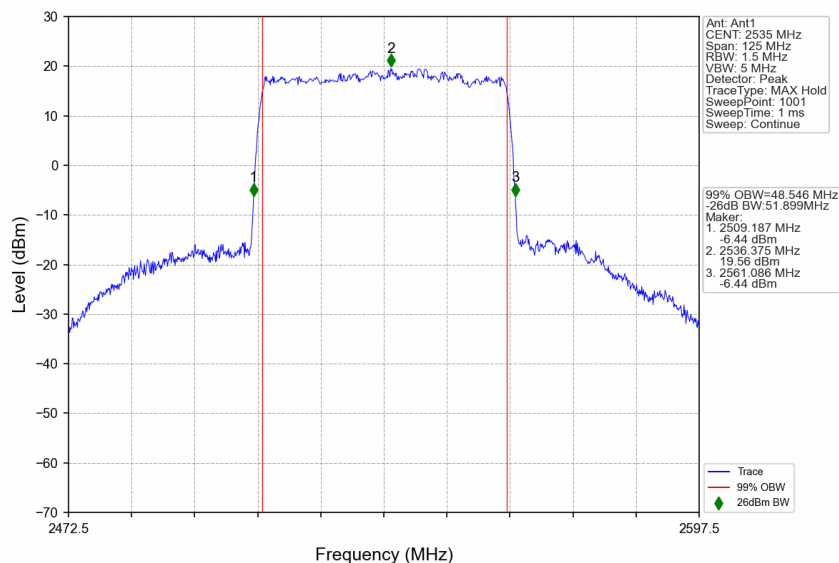
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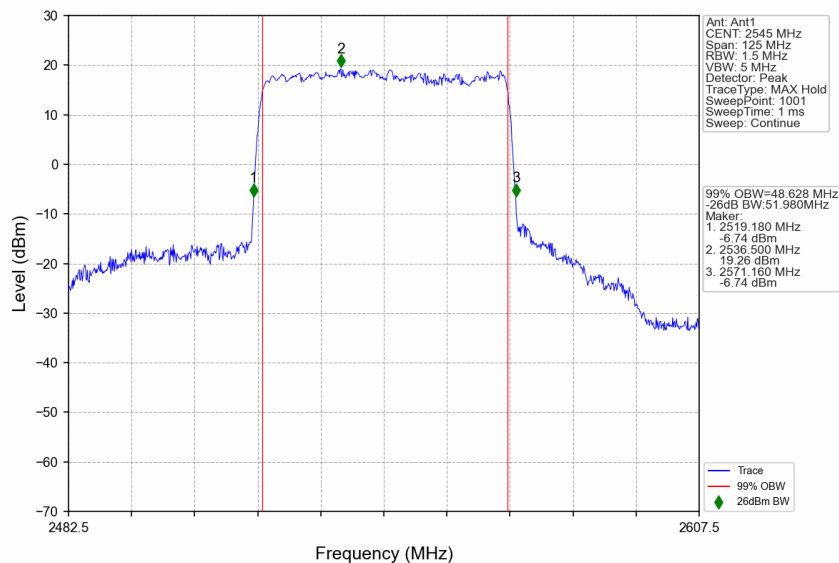
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n7\_15kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM\_QPSK\_2535MHz\_Outer\_Full



n7\_15kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM\_QPSK\_2545MHz\_Outer\_Full



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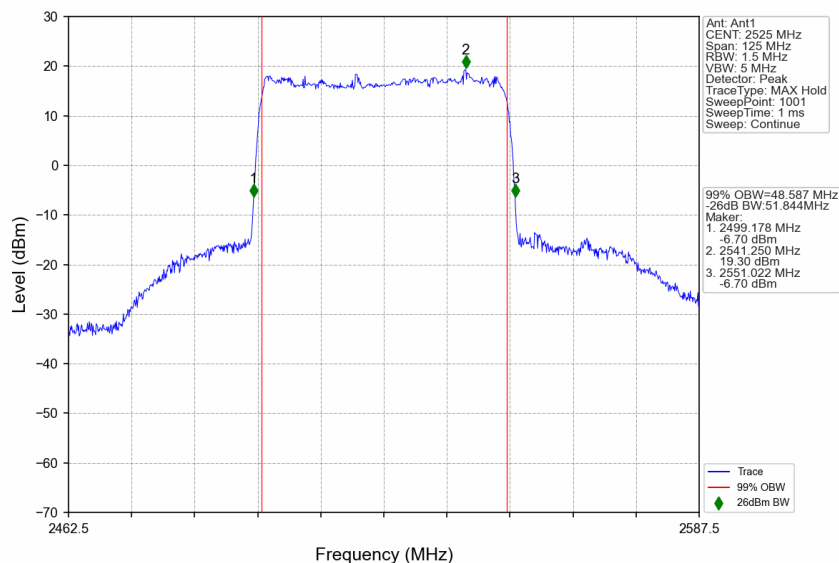
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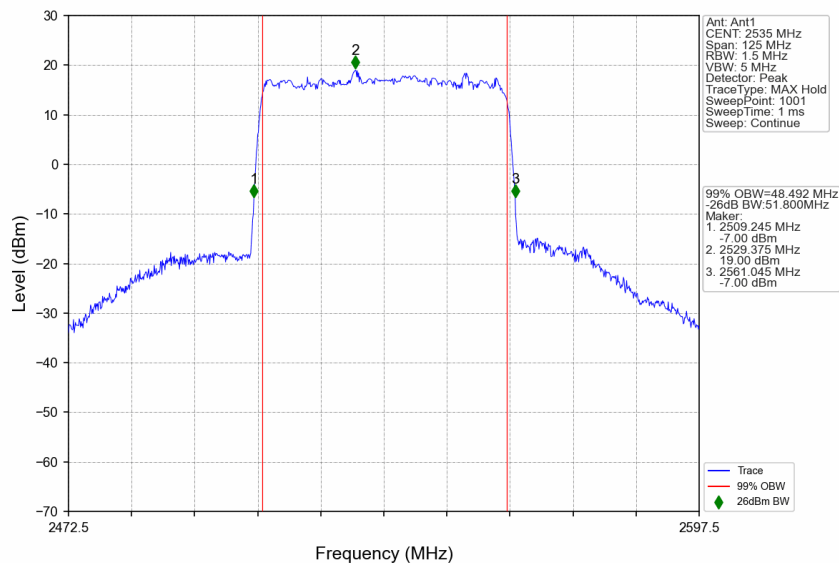
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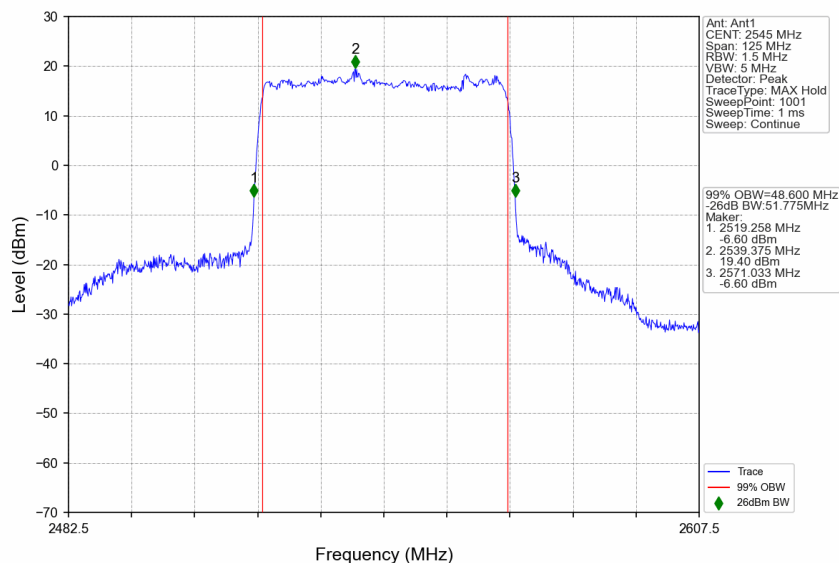
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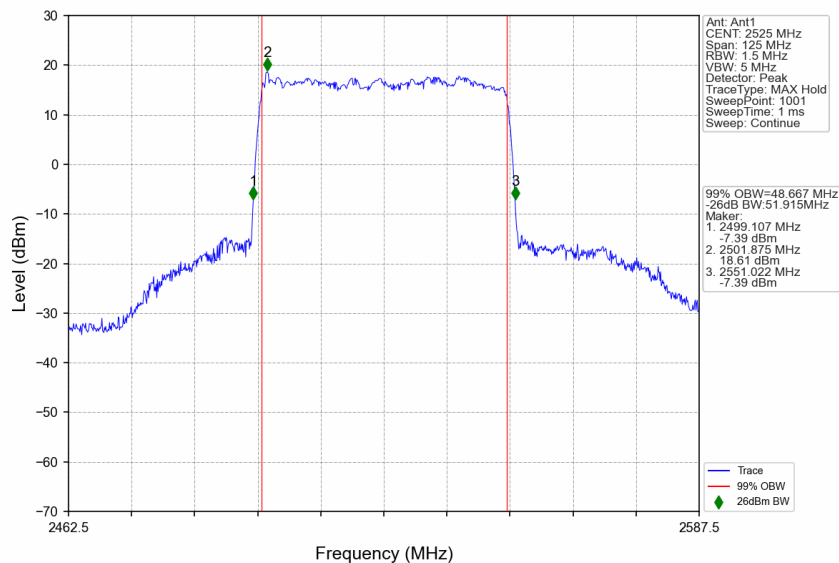
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