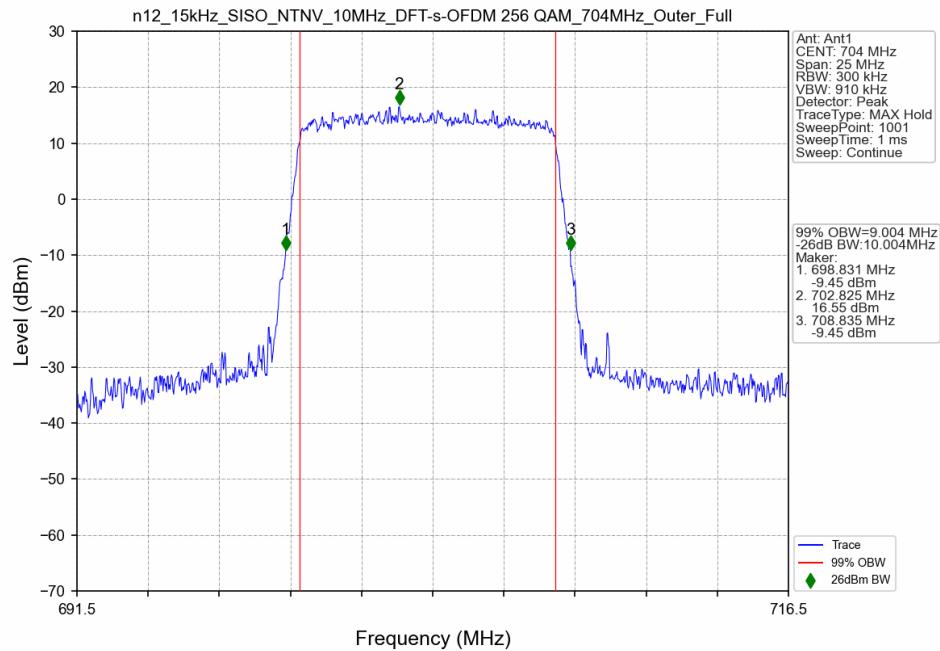
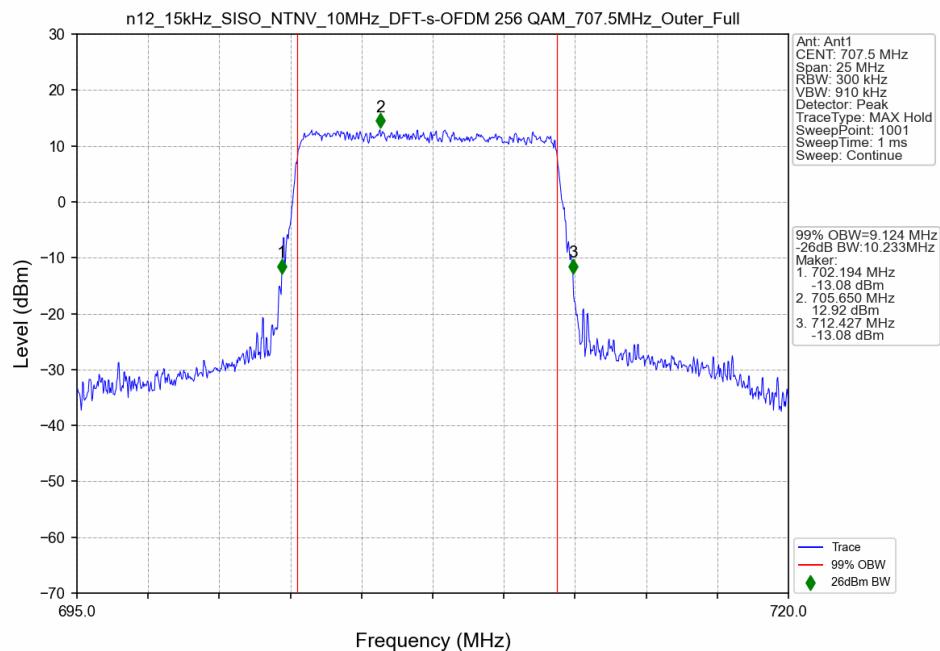


## n12\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 256 QAM\_704MHz\_Outer\_Full



## n12\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 256 QAM\_707.5MHz\_Outer\_Full



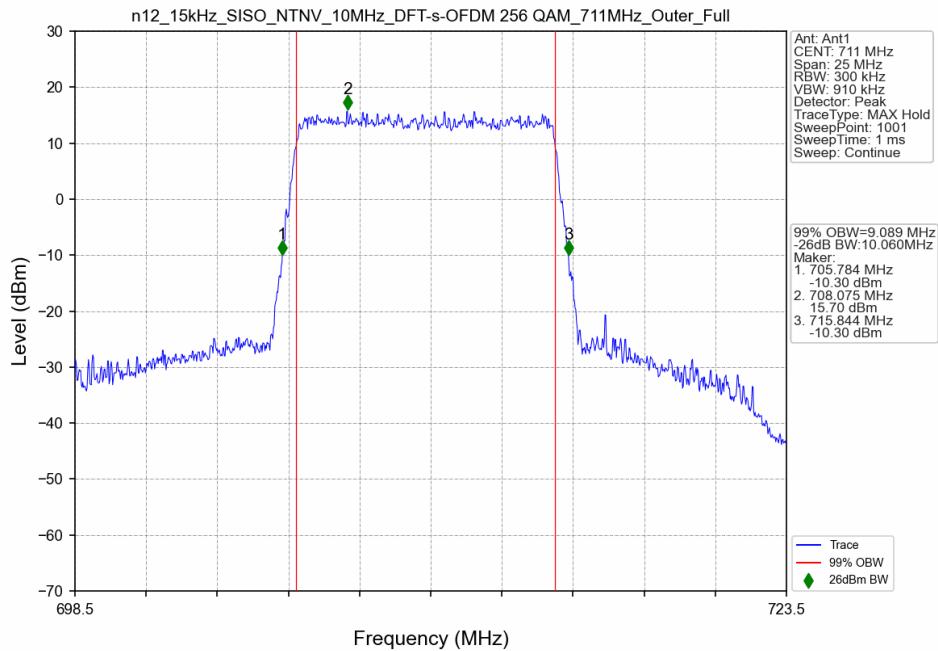
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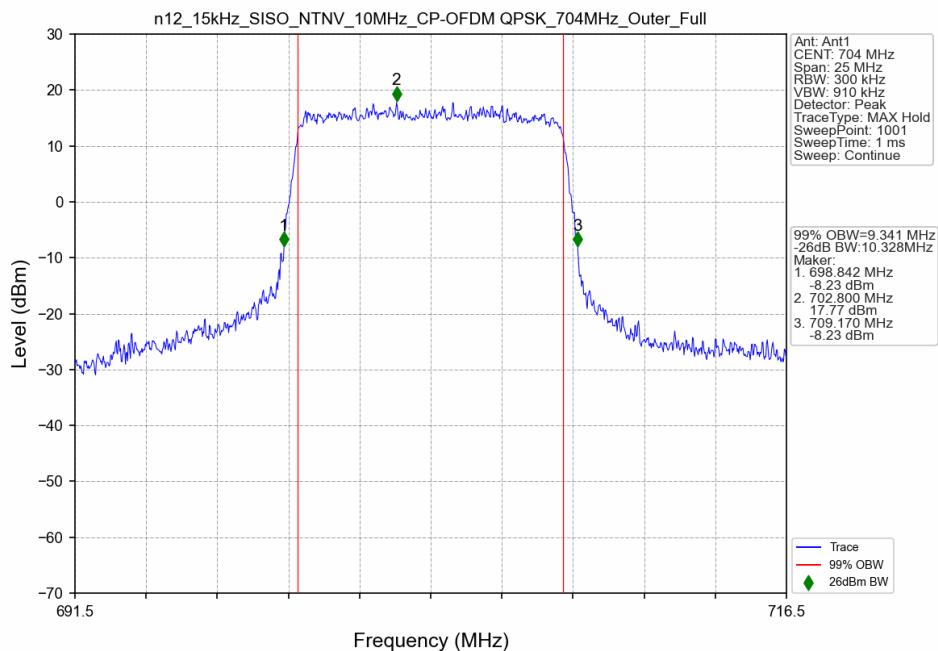
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## n12\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 256 QAM\_711MHz\_Outer\_Full



## n12\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM QPSK\_704MHz\_Outer\_Full



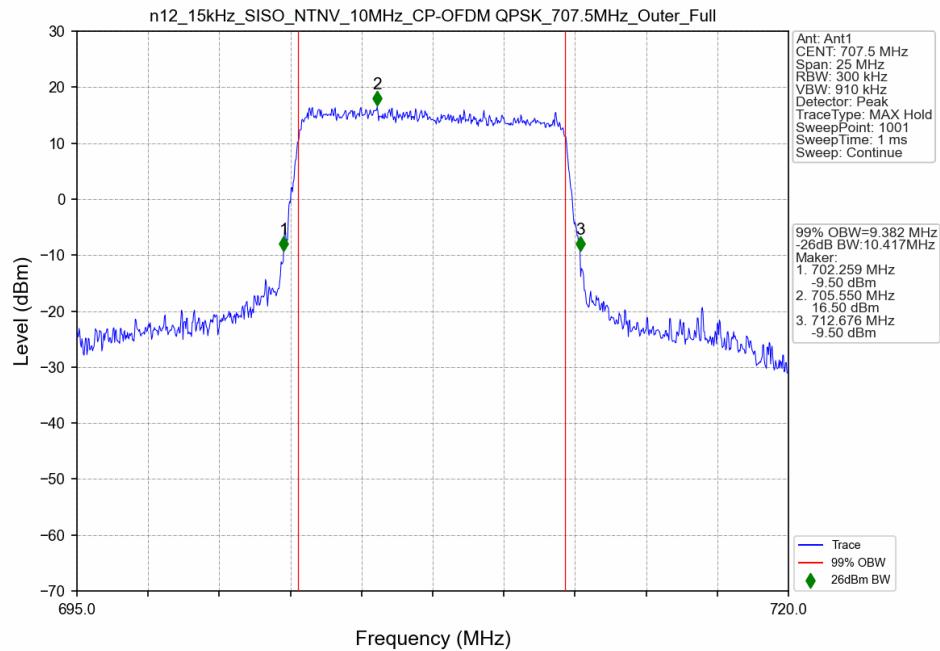
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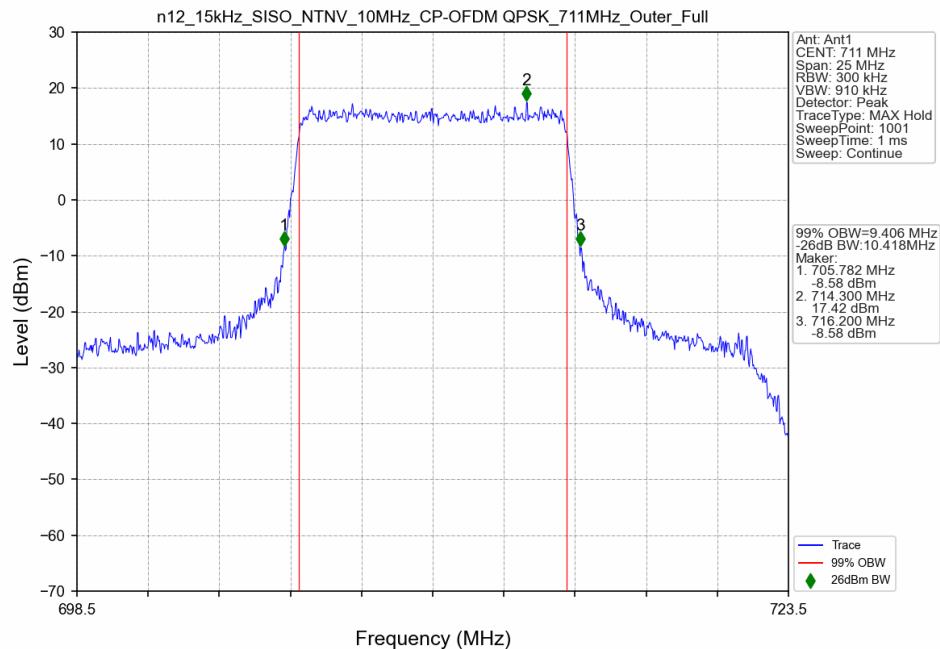
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## n12\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM QPSK\_707.5MHz\_Outer\_Full



## n12\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM QPSK\_711MHz\_Outer\_Full



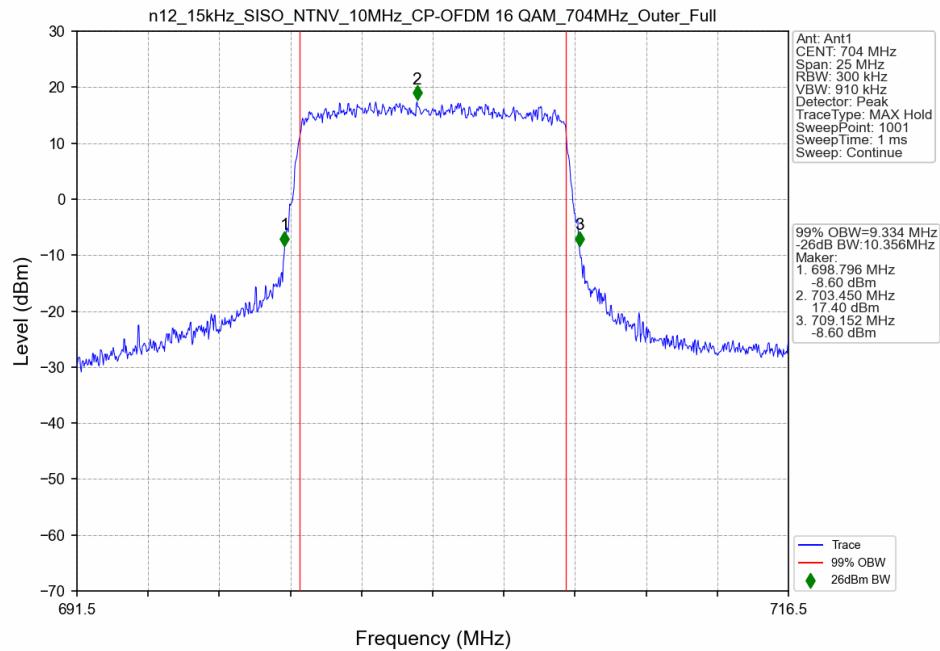
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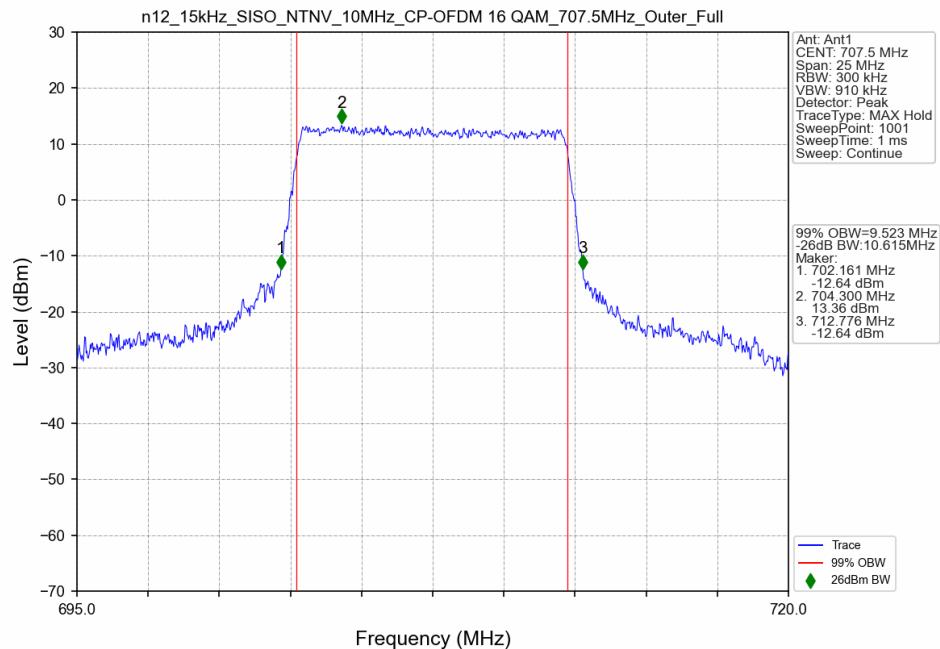
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## n12\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_704MHz\_Outer\_Full



## n12\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_707.5MHz\_Outer\_Full



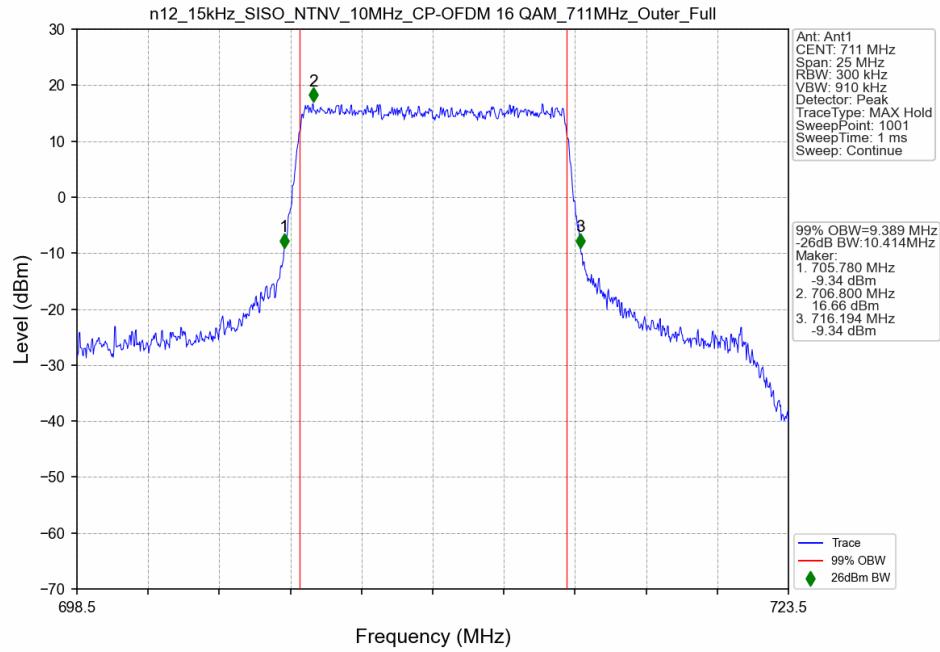
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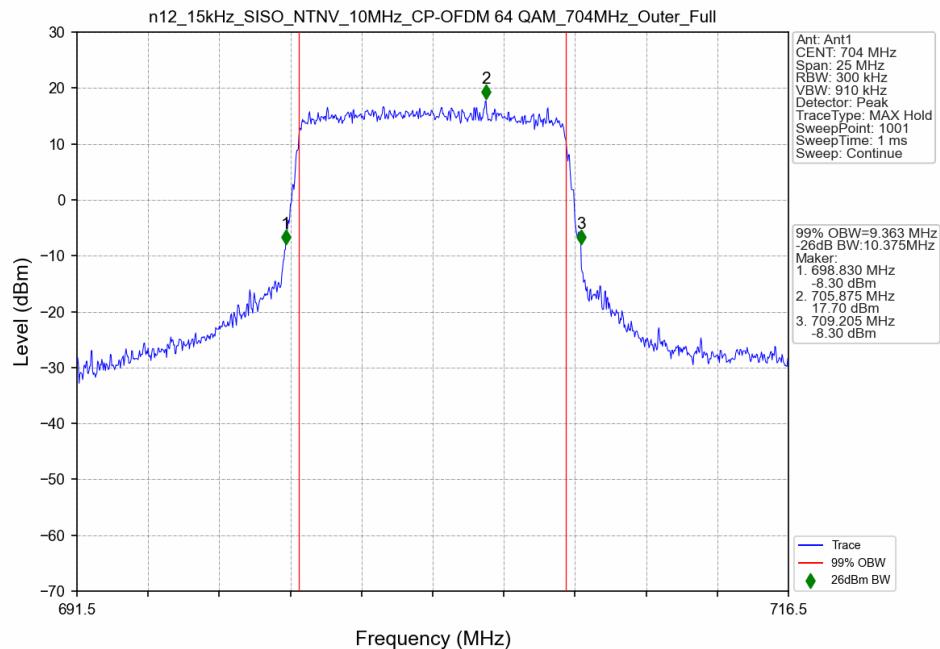
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## n12\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_711MHz\_Outer\_Full



## n12\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_704MHz\_Outer\_Full



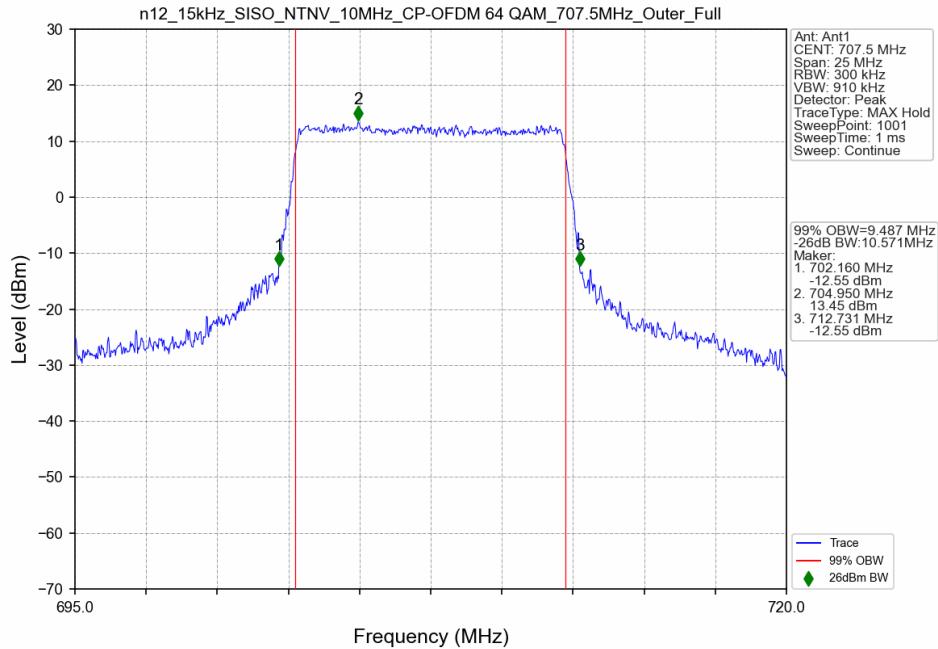
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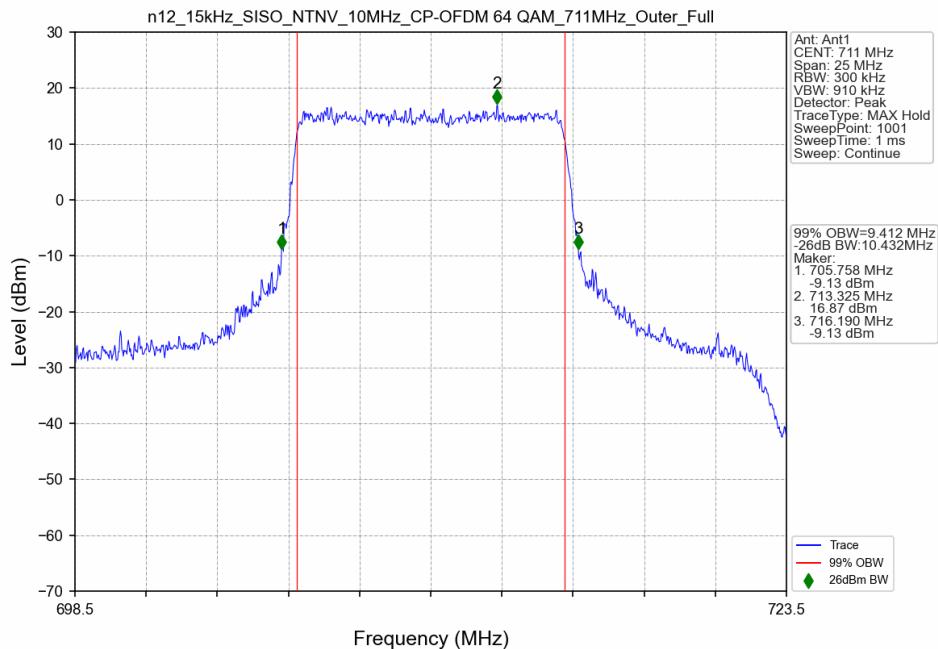
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## n12\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_707.5MHz\_Outer\_Full



## n12\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_711MHz\_Outer\_Full



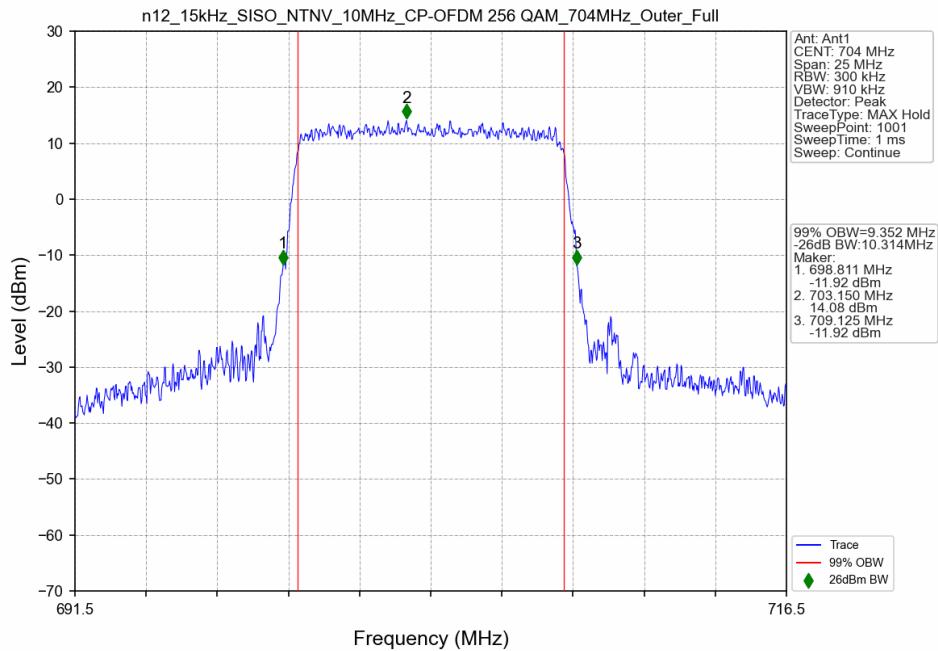
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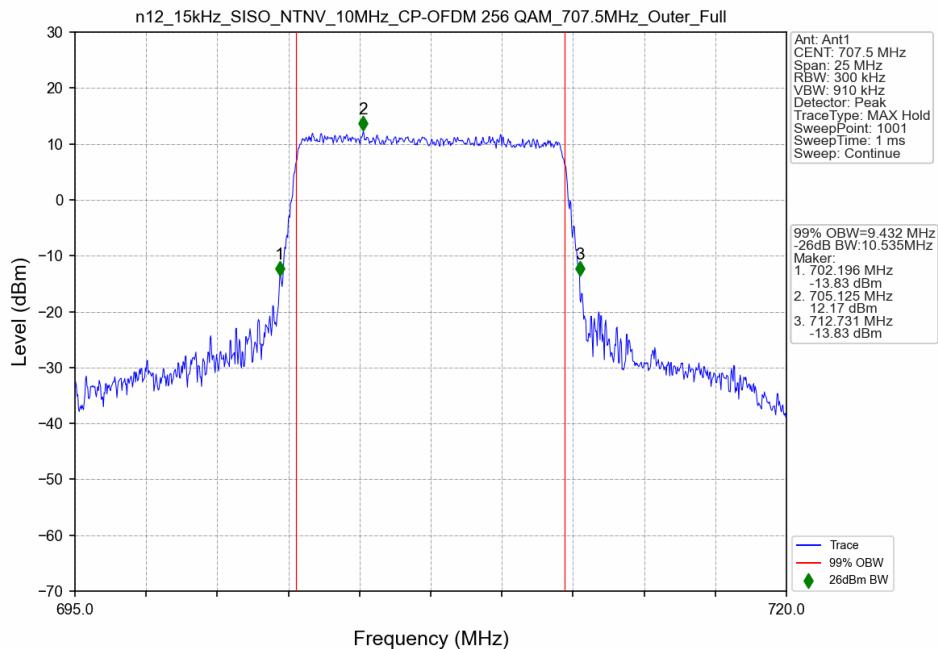
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## n12\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 256 QAM\_704MHz\_Outer\_Full



## n12\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 256 QAM\_707.5MHz\_Outer\_Full

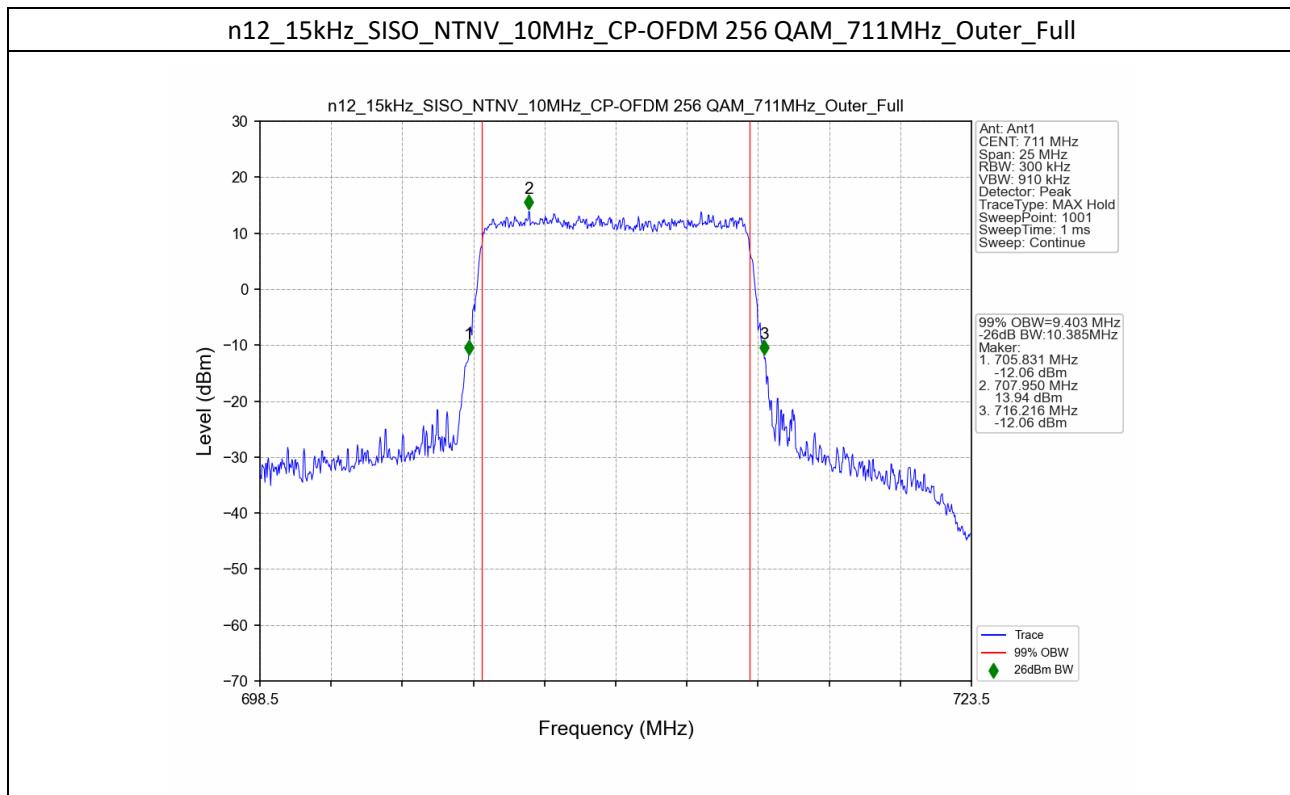


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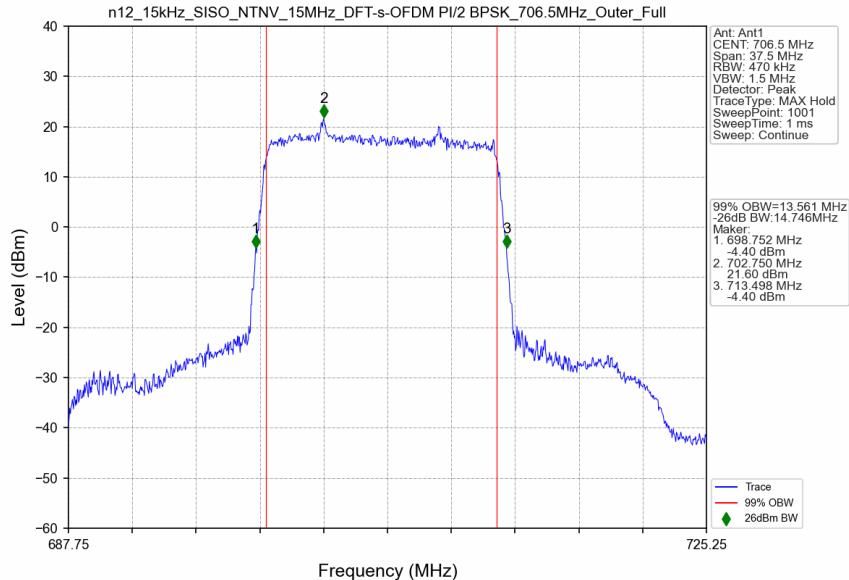
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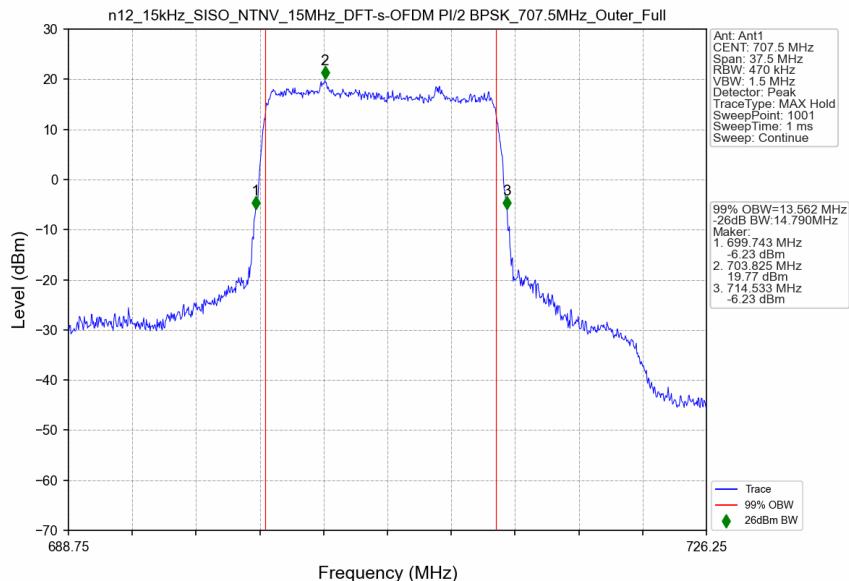
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## 3.2.3 15k\_SISO\_15MHz\_NTNV

n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_706.5MHz\_Outer\_Full



n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_707.5MHz\_Outer\_Full



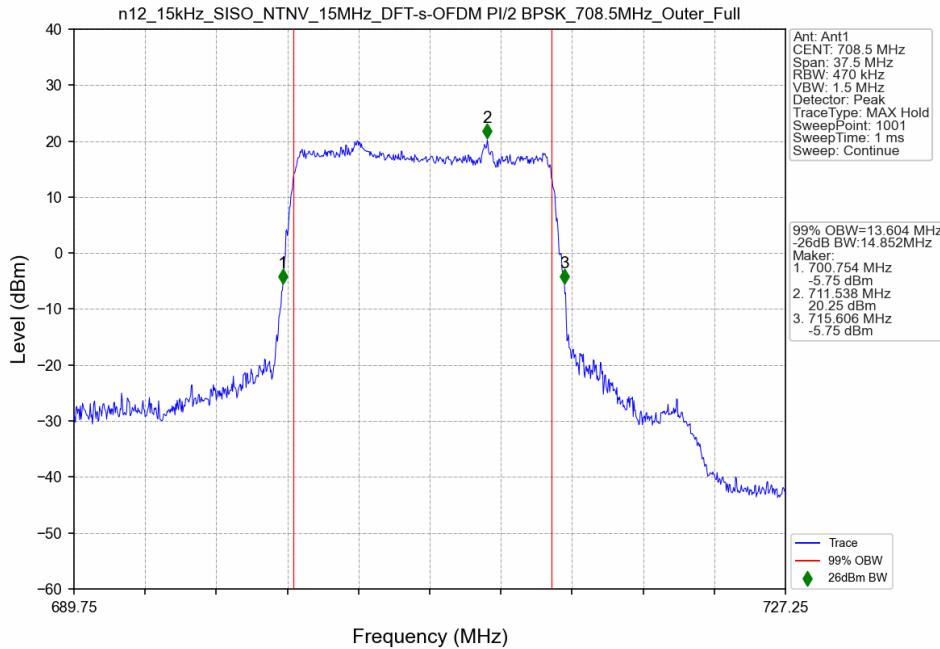
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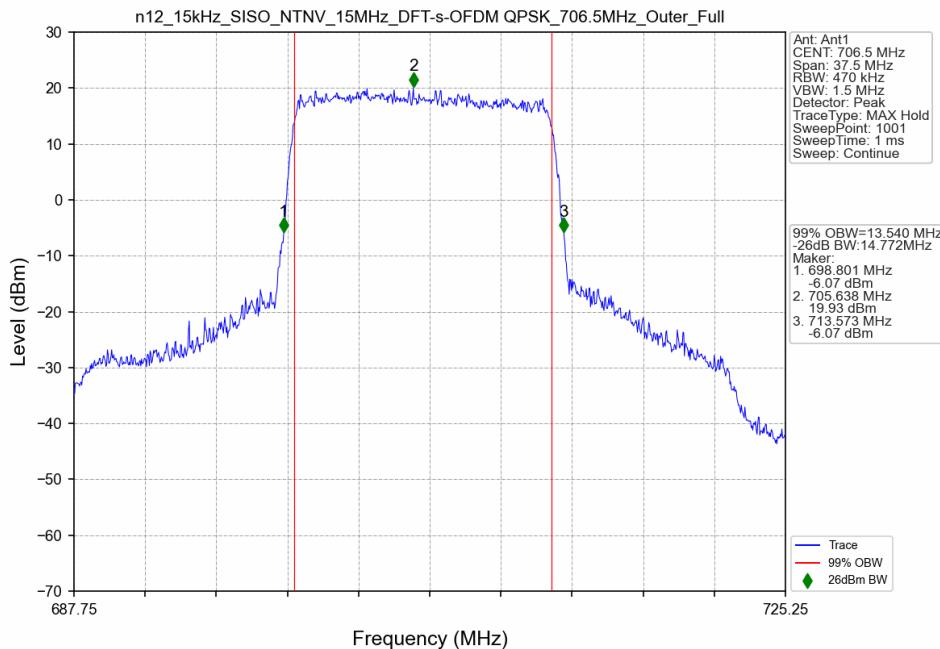
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## n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_708.5MHz\_Outer\_Full



## n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_706.5MHz\_Outer\_Full



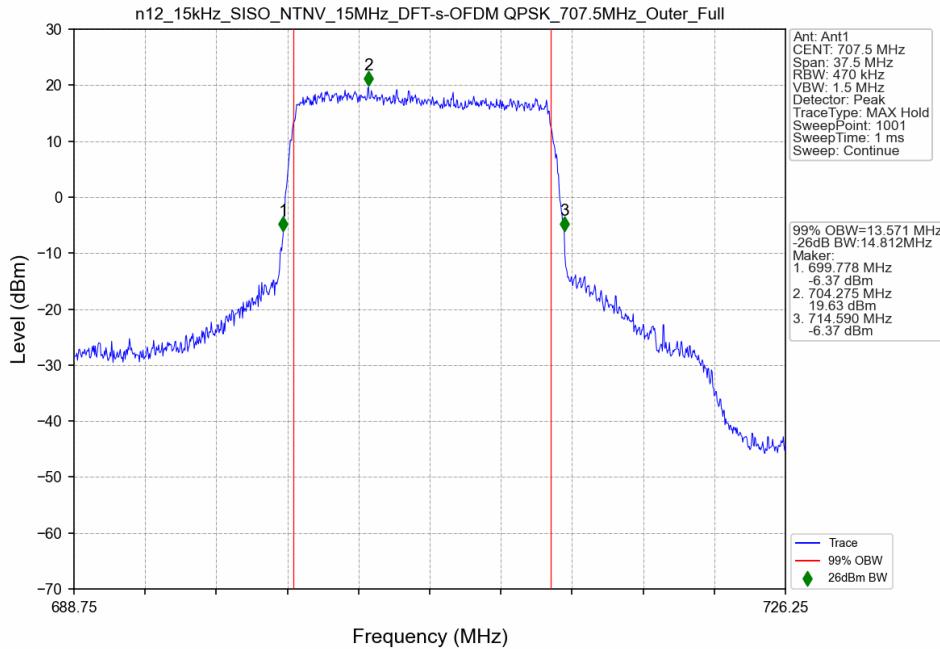
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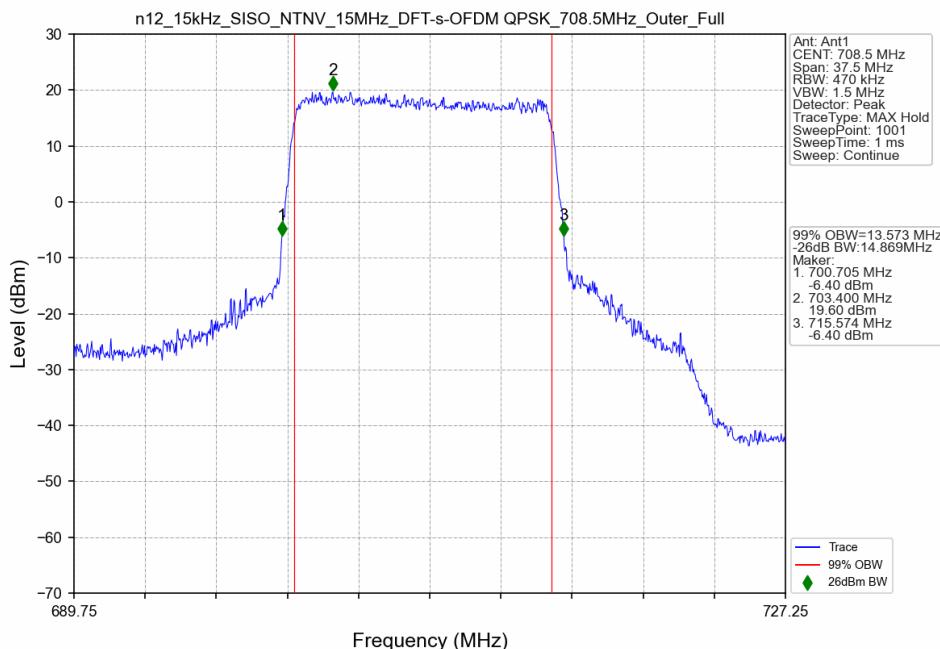
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## n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_707.5MHz\_Outer\_Full



## n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_708.5MHz\_Outer\_Full



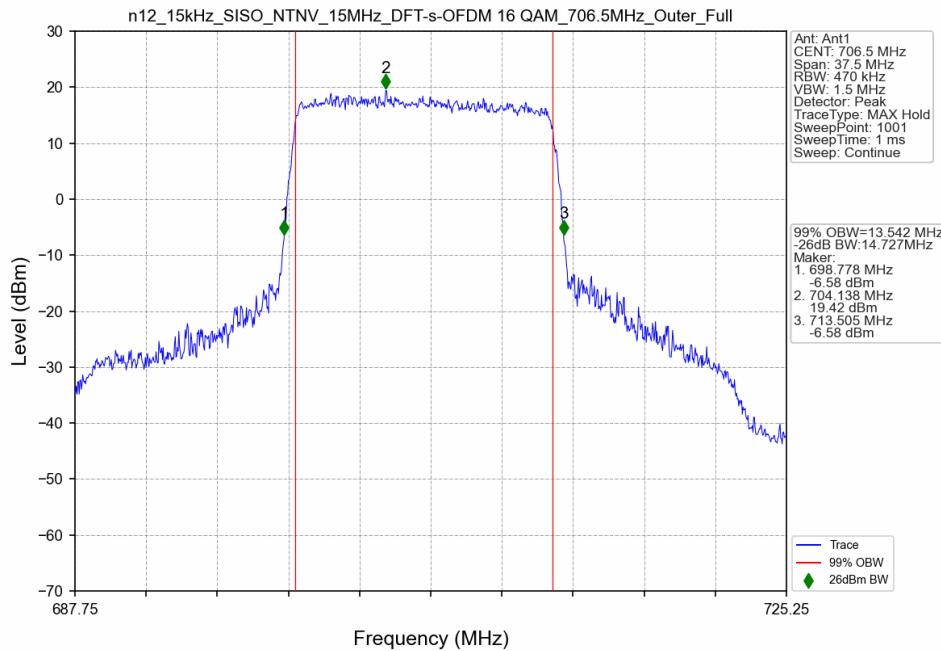
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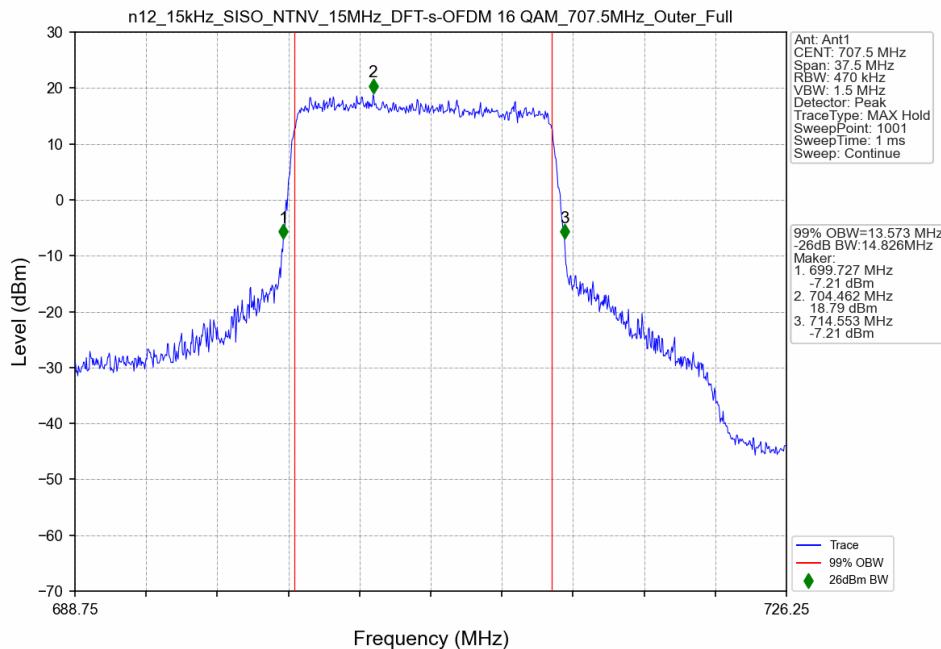
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## n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 16 QAM\_706.5MHz\_Outer\_Full



## n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 16 QAM\_707.5MHz\_Outer\_Full



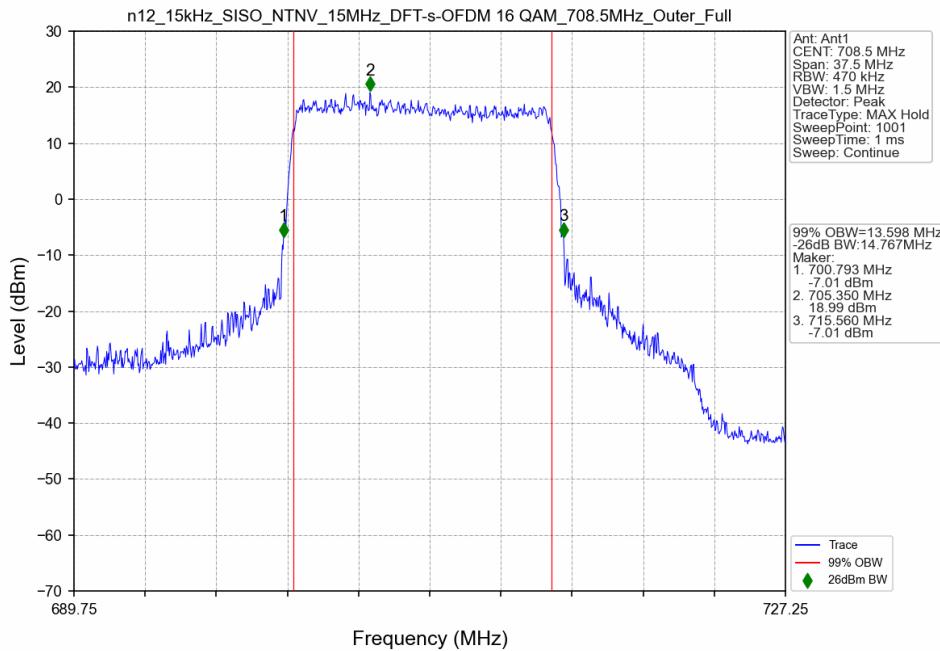
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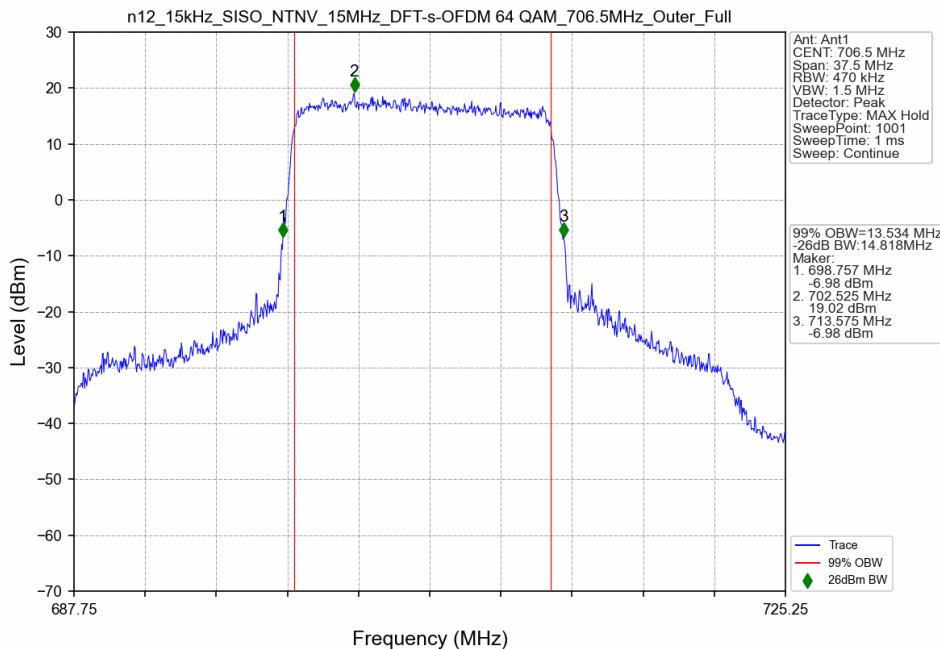
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## n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 16 QAM\_708.5MHz\_Outer\_Full



## n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 64 QAM\_706.5MHz\_Outer\_Full



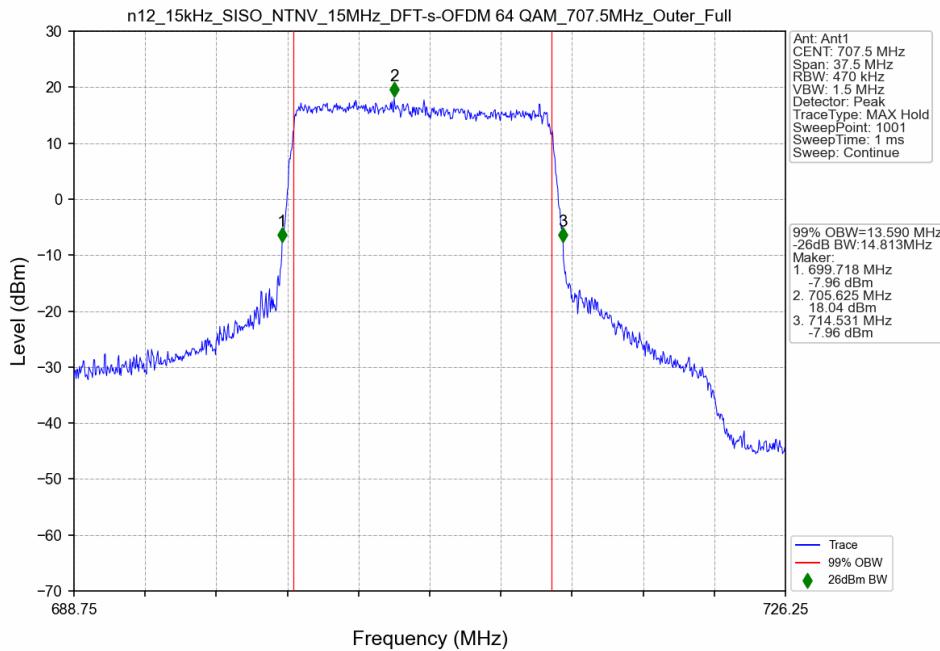
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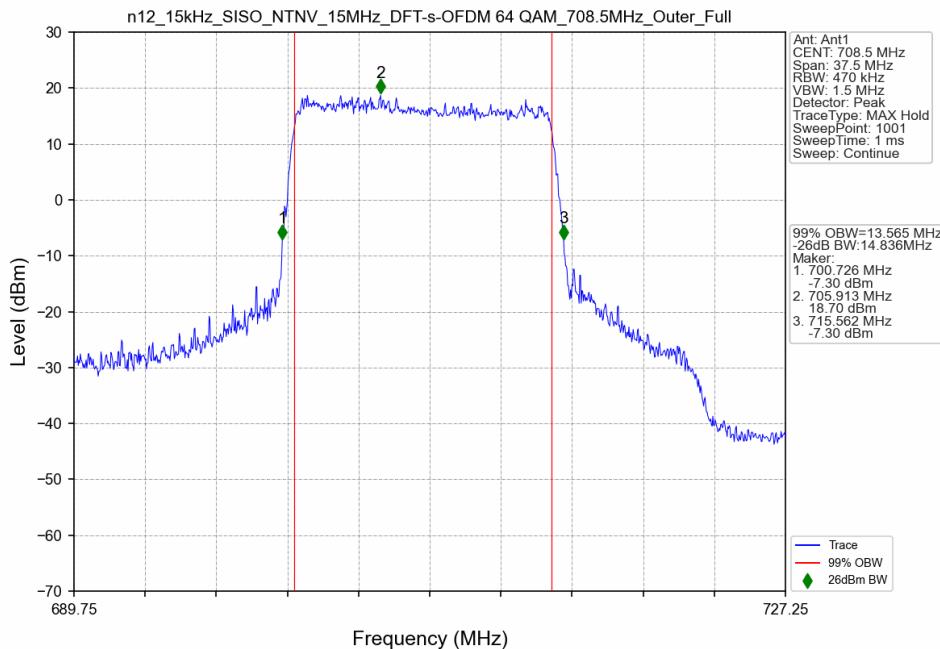
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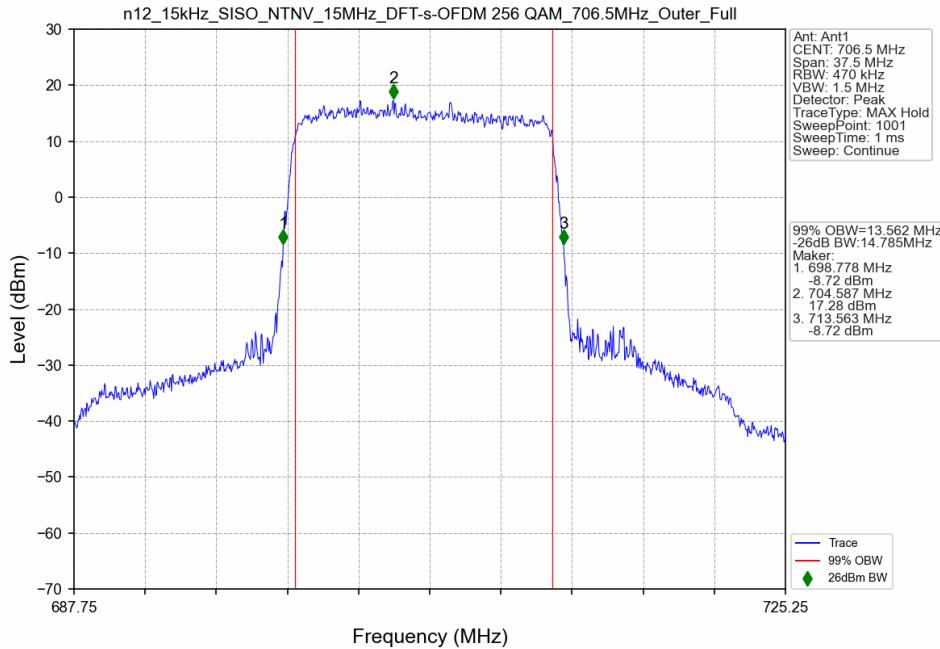
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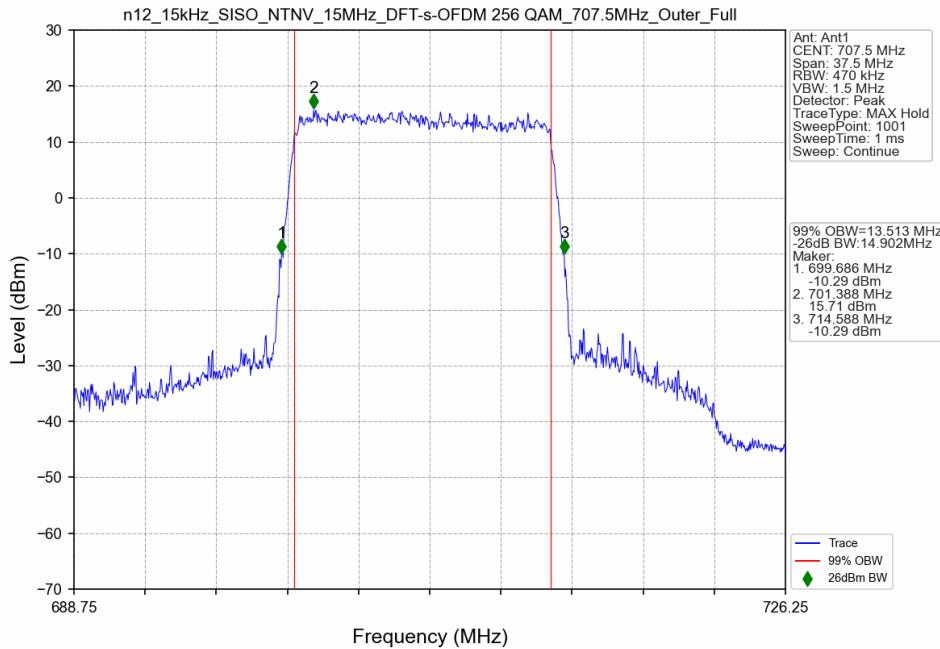
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## n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_706.5MHz\_Outer\_Full



## n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_707.5MHz\_Outer\_Full



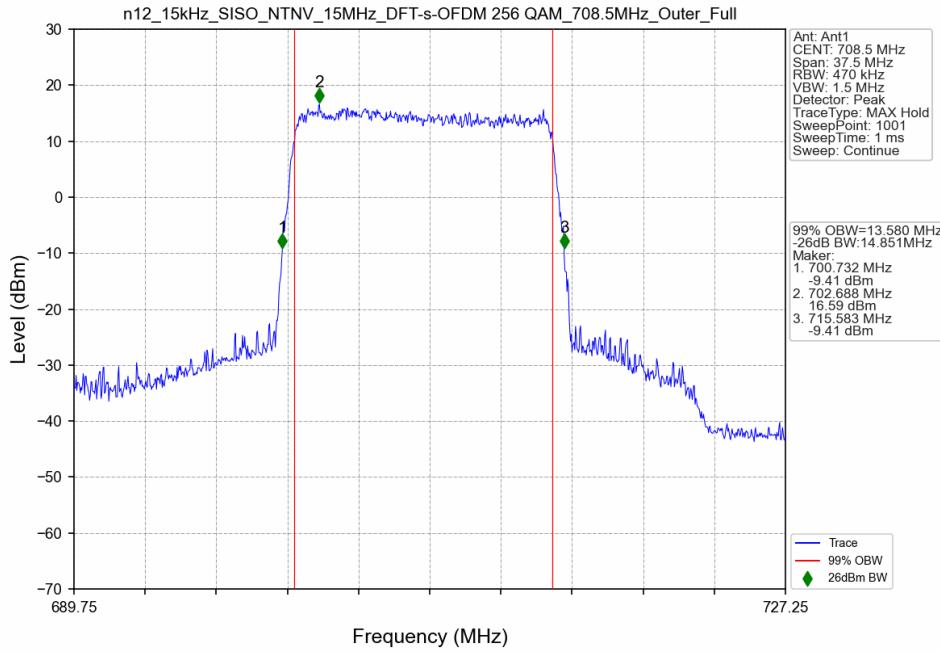
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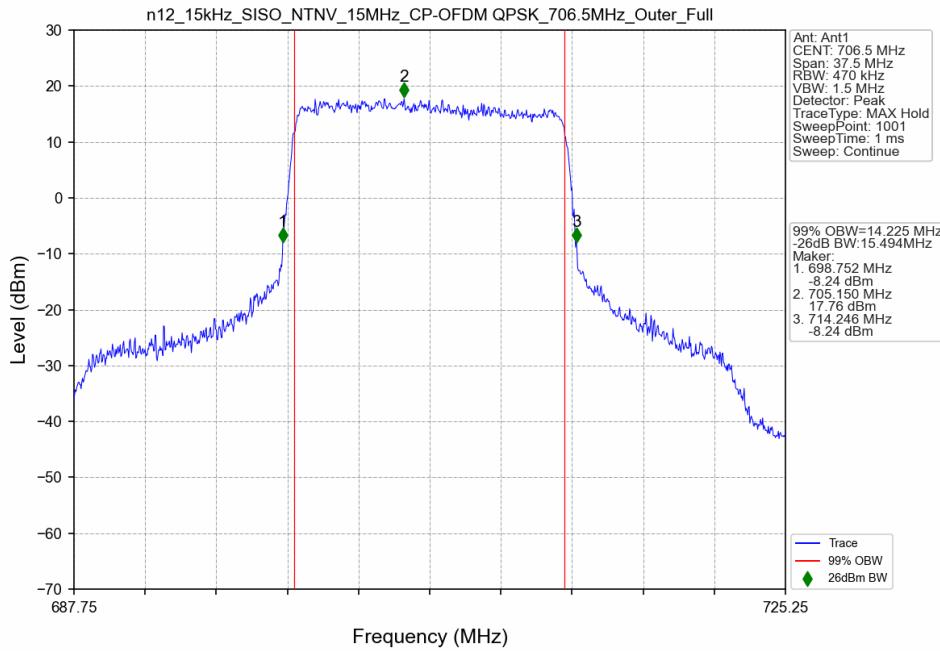
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## n12\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM QPSK\_706.5MHz\_Outer\_Full



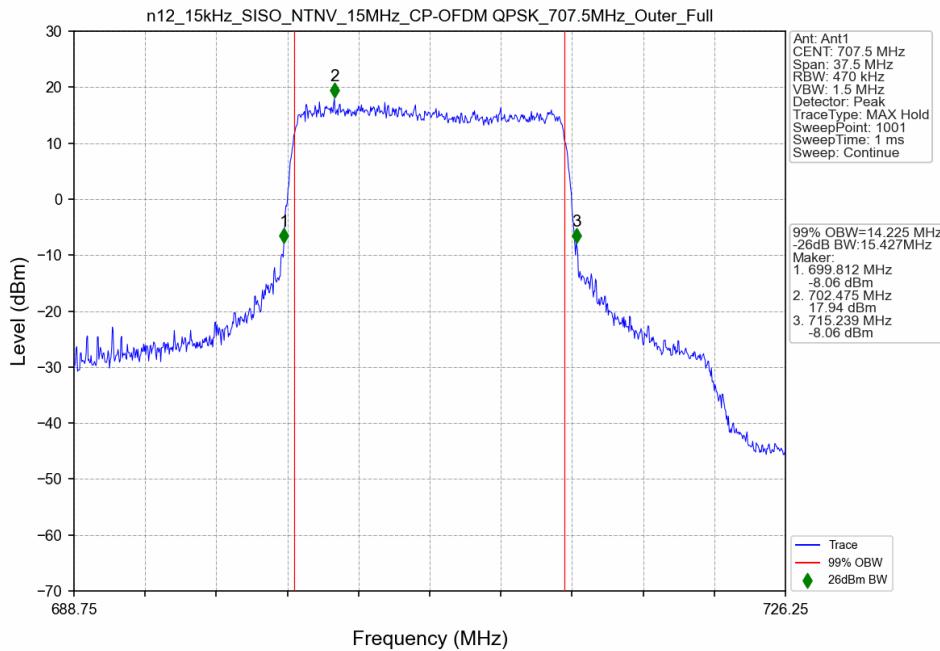
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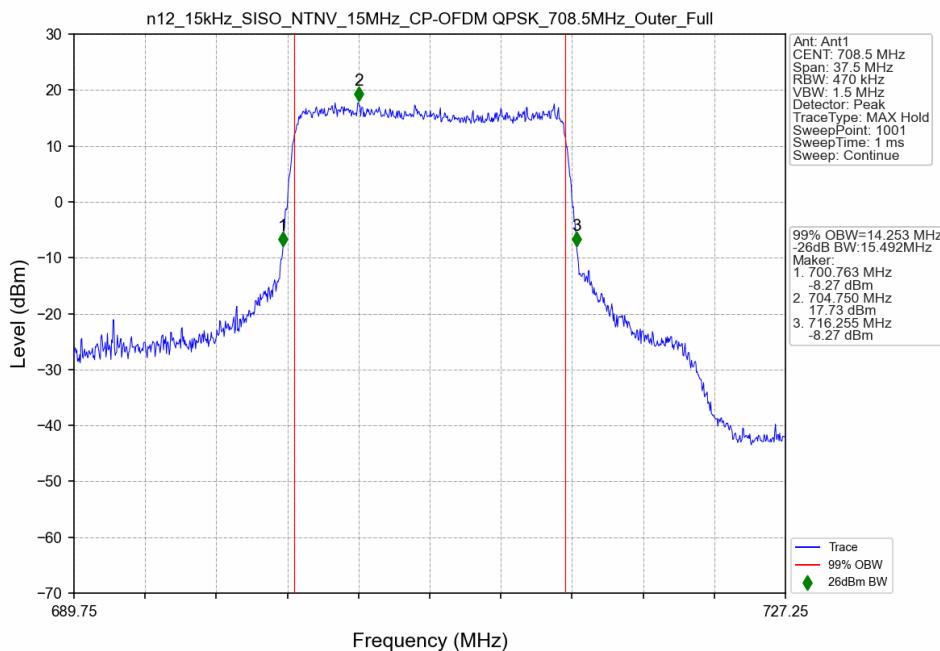
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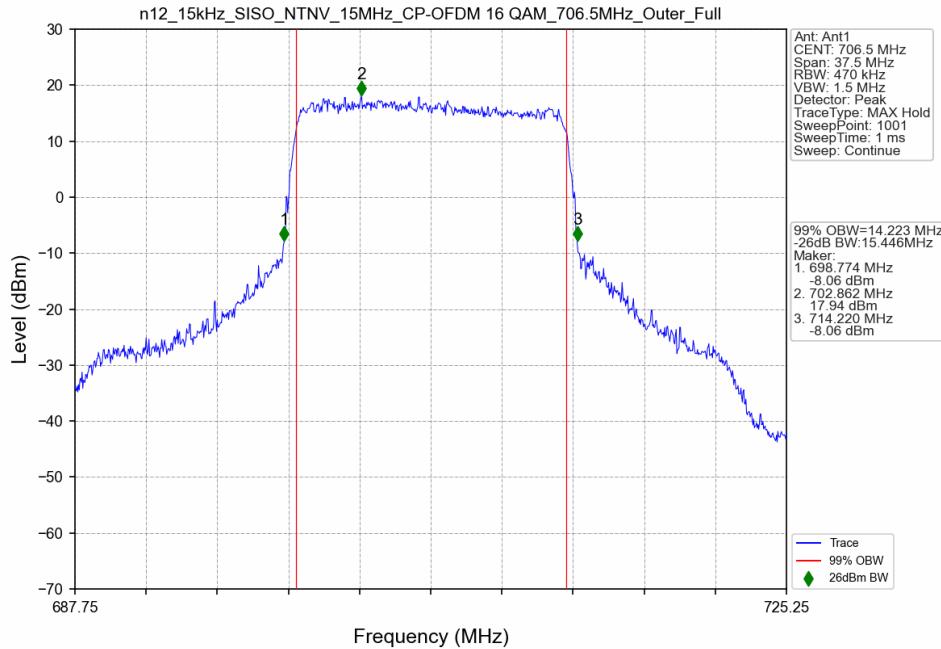
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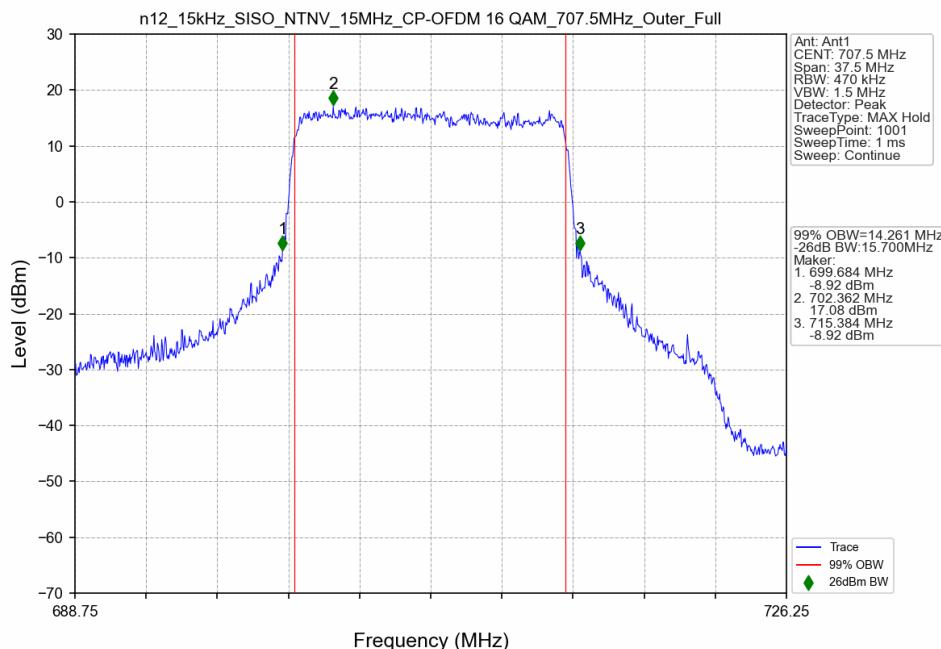
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## n12\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 16 QAM\_707.5MHz\_Outer\_Full



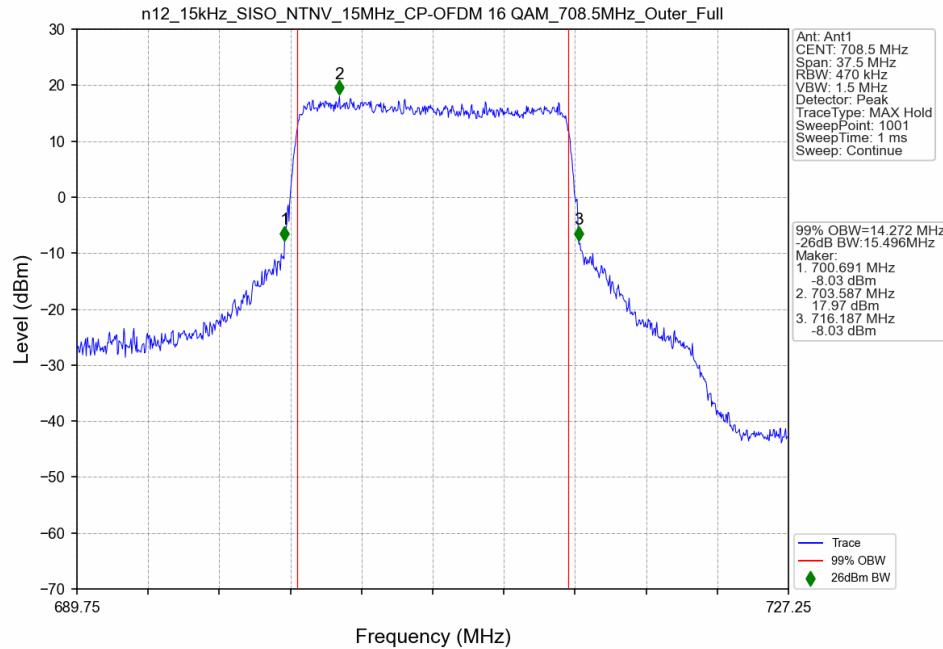
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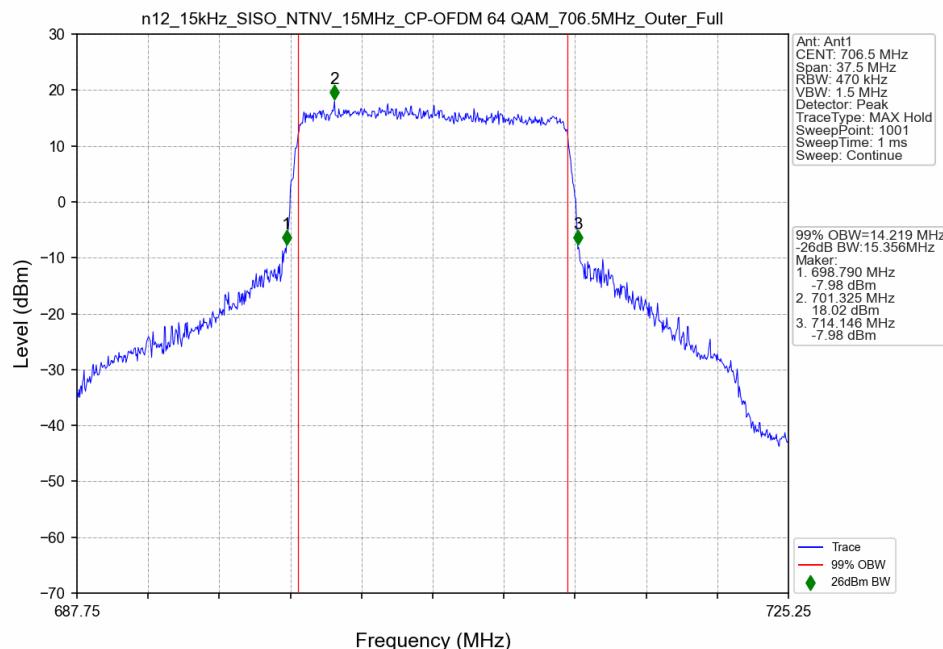
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## n12\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 64 QAM\_706.5MHz\_Outer\_Full



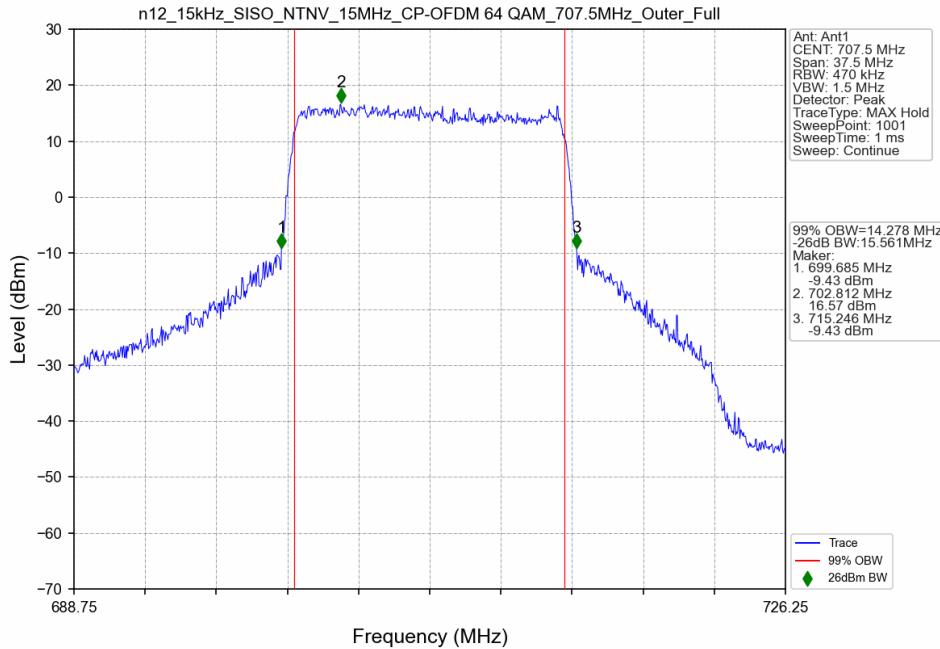
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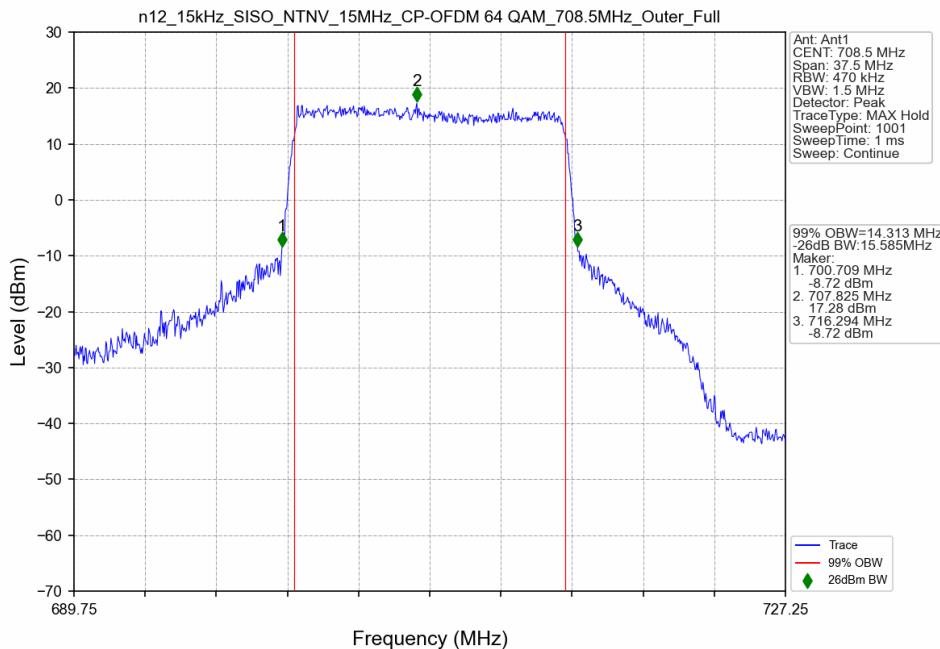
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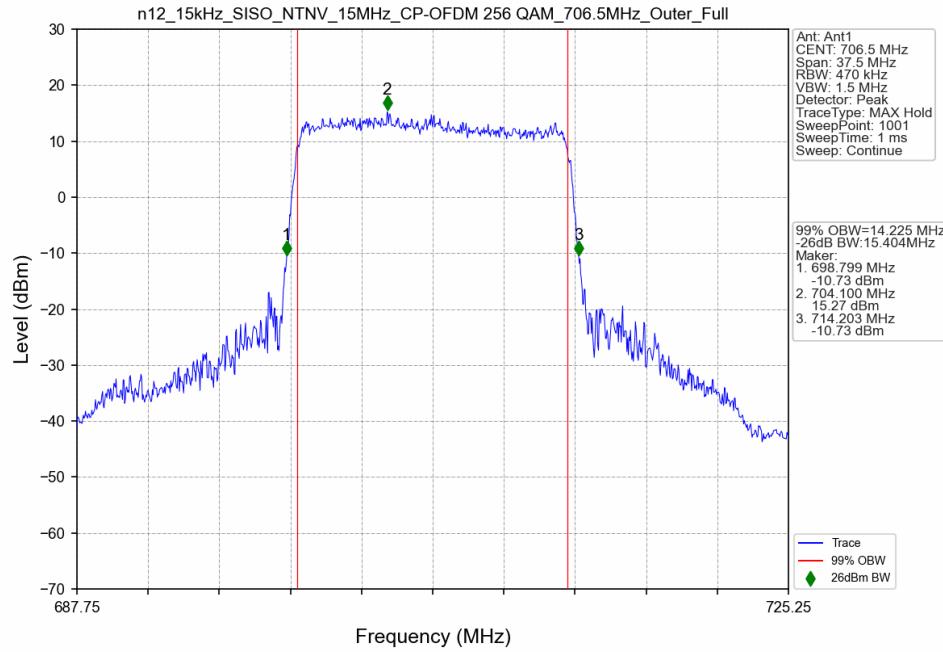
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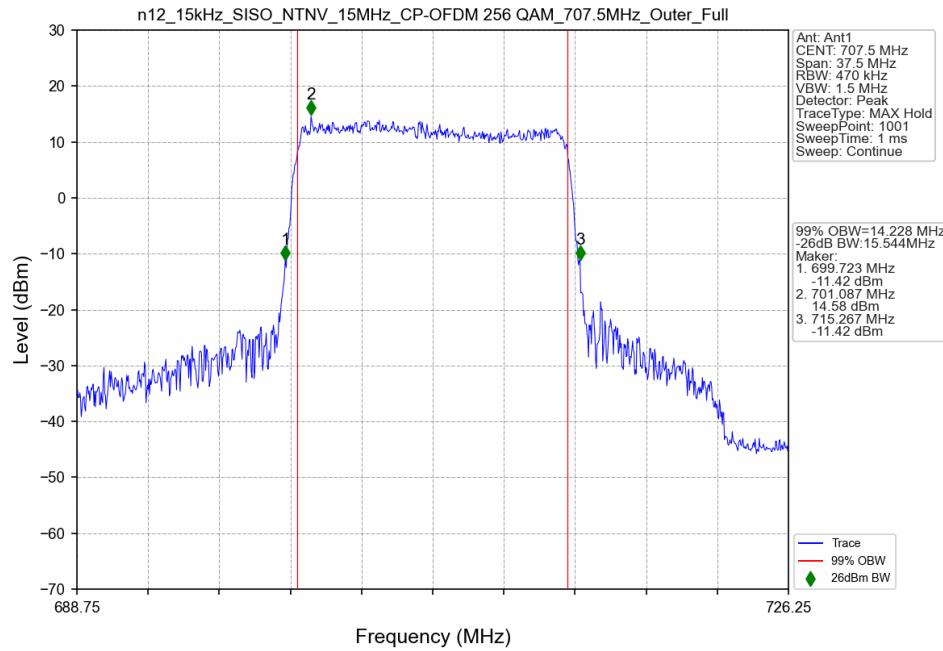
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## n12\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 256 QAM\_707.5MHz\_Outer\_Full

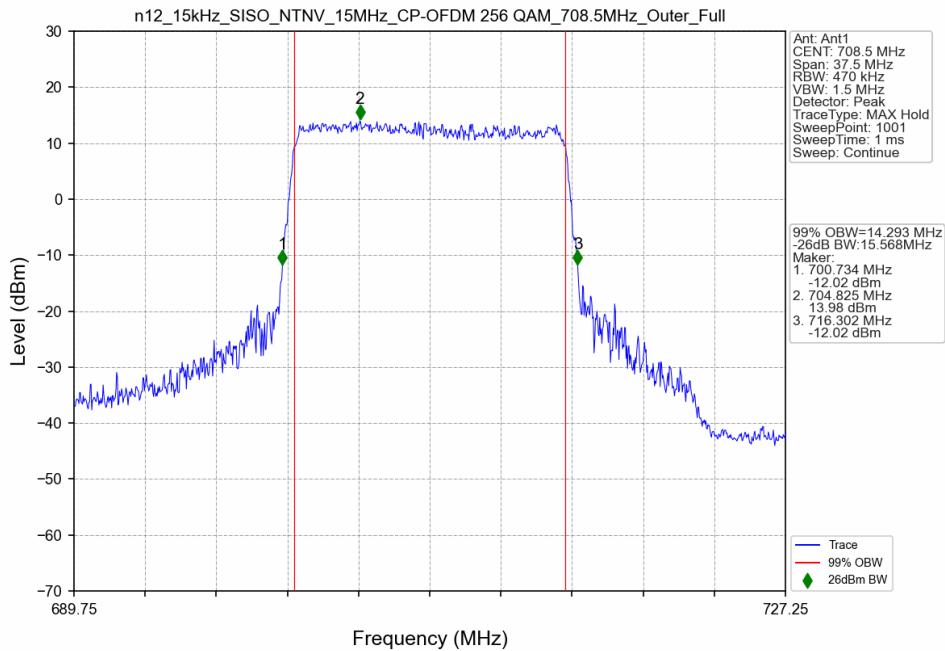


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## 4. Peak-Average Ratio

### 4.1 Test Result

#### 4.1.1 15k\_SISO\_15MHz\_NTNV

Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	706.5	Outer_Full	3.93	/	/	<=13	Pass
	707.5	Outer_Full	4.19	/	/	<=13	Pass
	708.5	Outer_Full	7.06	/	/	<=13	Pass
DFT-s-OFDM QPSK	706.5	Outer_Full	11.37	/	/	<=13	Pass
	707.5	Outer_Full	9.52	/	/	<=13	Pass
	708.5	Outer_Full	8.46	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	706.5	Outer_Full	11.71	/	/	<=13	Pass
	707.5	Outer_Full	5.69	/	/	<=13	Pass
	708.5	Outer_Full	5.66	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	706.5	Outer_Full	6.17	/	/	<=13	Pass
	707.5	Outer_Full	6.17	/	/	<=13	Pass
	708.5	Outer_Full	6.04	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	706.5	Outer_Full	12.74	/	/	<=13	Pass
	707.5	Outer_Full	6.64	/	/	<=13	Pass
	708.5	Outer_Full	6.63	/	/	<=13	Pass
CP-OFDM QPSK	706.5	Outer_Full	6.59	/	/	<=13	Pass
	707.5	Outer_Full	6.88	/	/	<=13	Pass
	708.5	Outer_Full	6.83	/	/	<=13	Pass
CP-OFDM 16 QAM	706.5	Outer_Full	6.55	/	/	<=13	Pass
	707.5	Outer_Full	6.53	/	/	<=13	Pass
	708.5	Outer_Full	10.16	/	/	<=13	Pass
CP-OFDM 64 QAM	706.5	Outer_Full	8.47	/	/	<=13	Pass
	707.5	Outer_Full	7.11	/	/	<=13	Pass
	708.5	Outer_Full	7.40	/	/	<=13	Pass
CP-OFDM 256 QAM	706.5	Outer_Full	8.33	/	/	<=13	Pass
	707.5	Outer_Full	8.30	/	/	<=13	Pass
	708.5	Outer_Full	8.42	/	/	<=13	Pass



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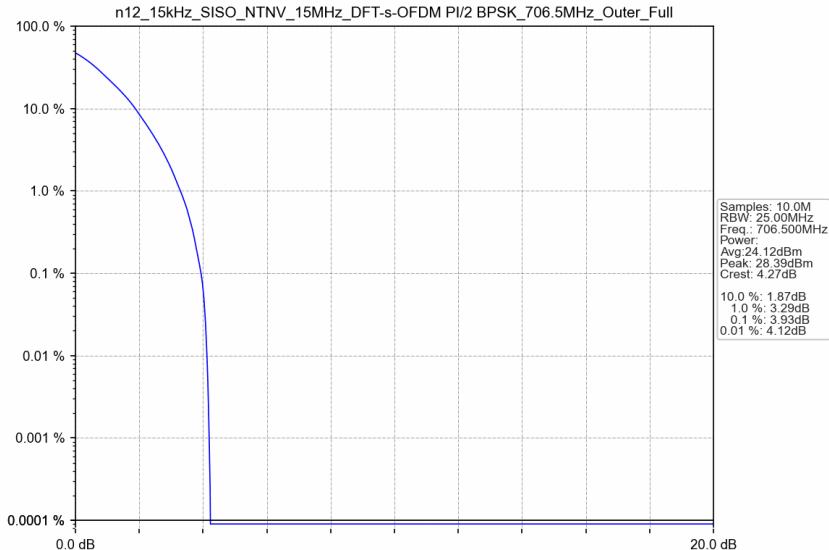
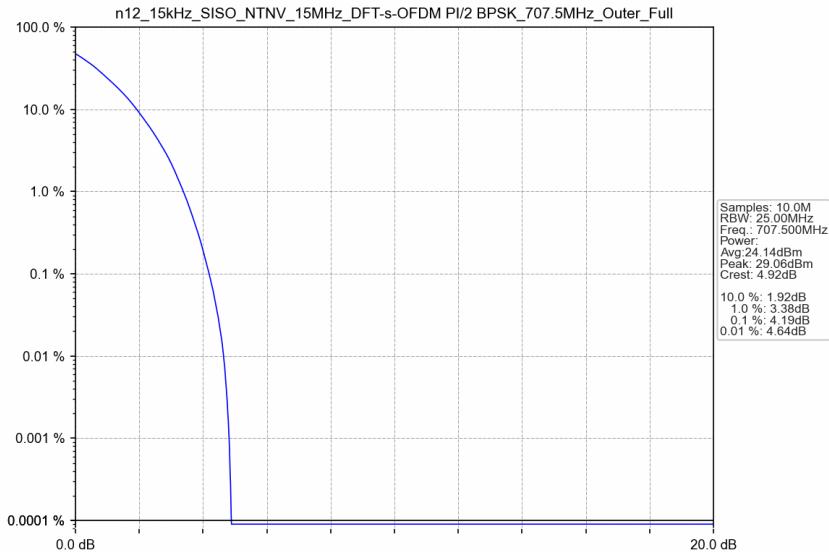
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## 4.2 Test Graph

## 4.2.1 15k\_SISO\_15MHz\_NTNV

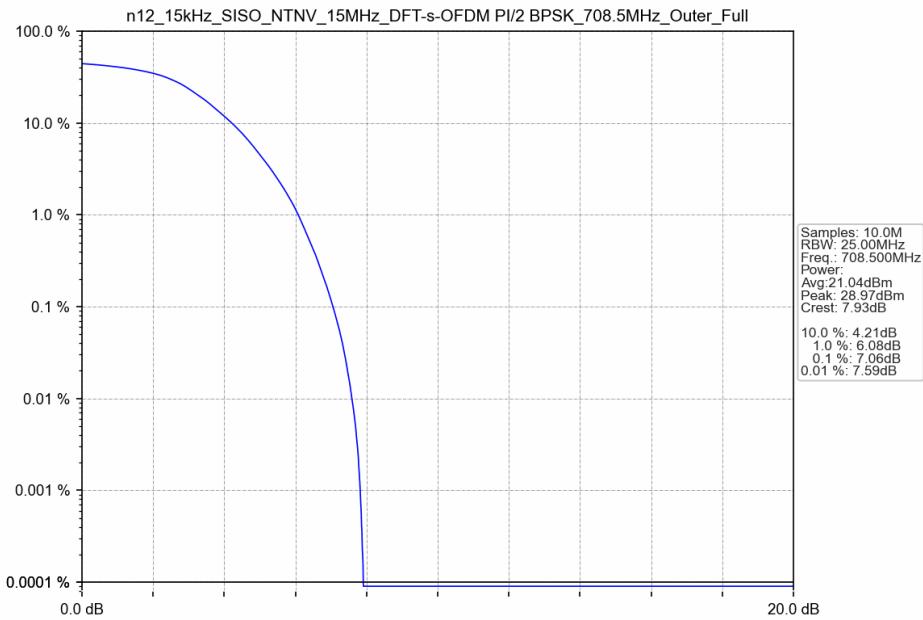
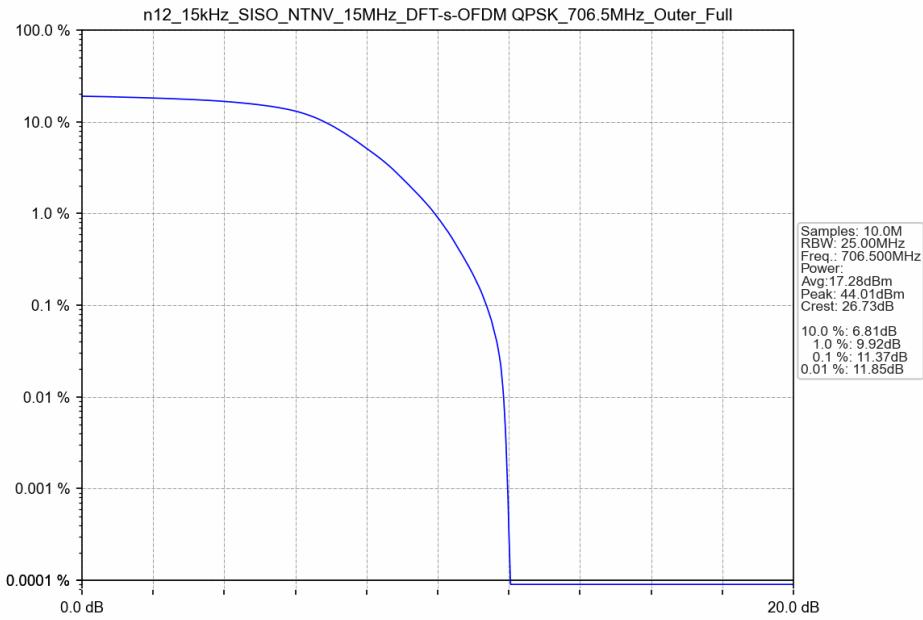
**n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_706.5MHz\_Outer\_Full****n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_707.5MHz\_Outer\_Full**

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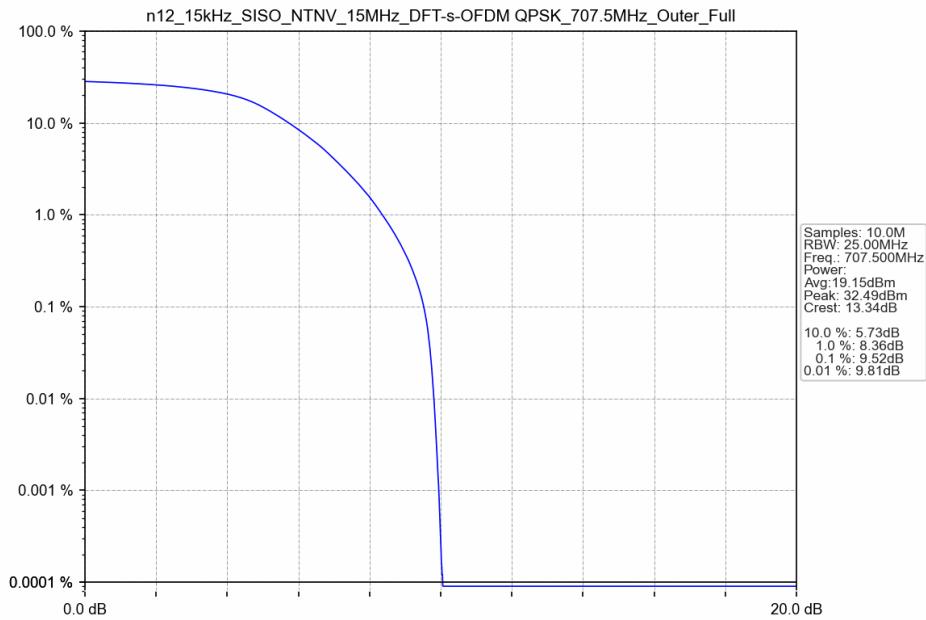
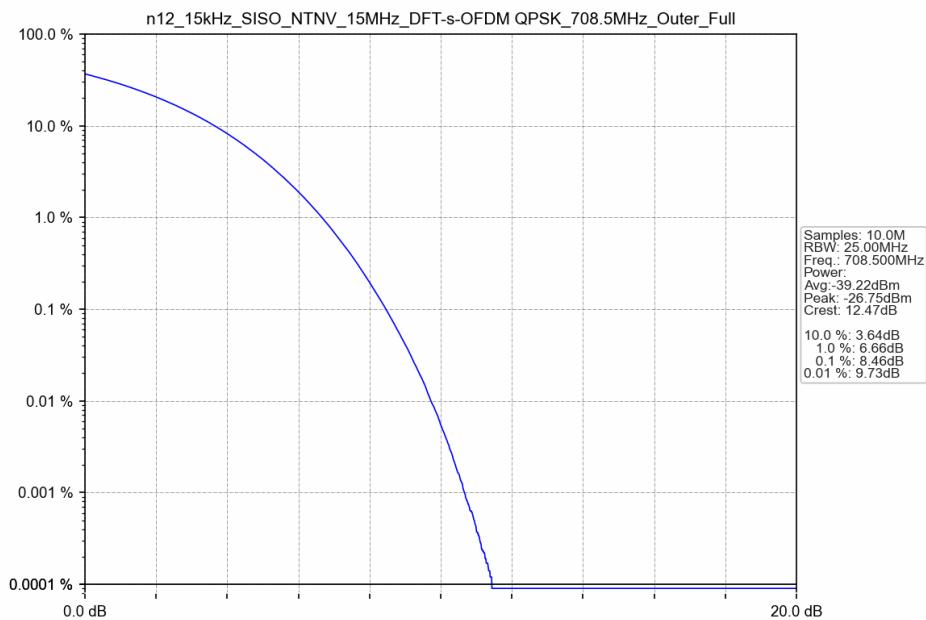
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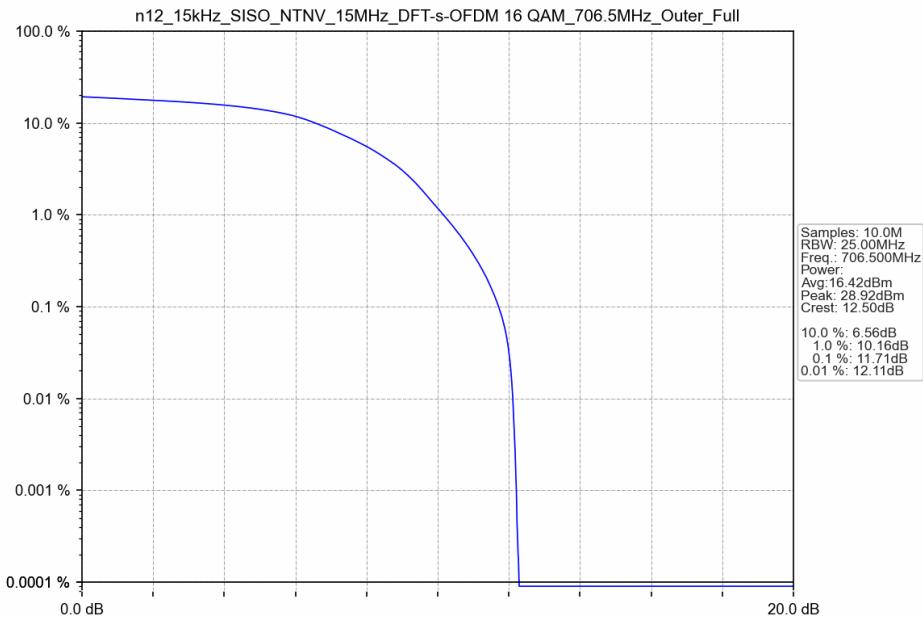
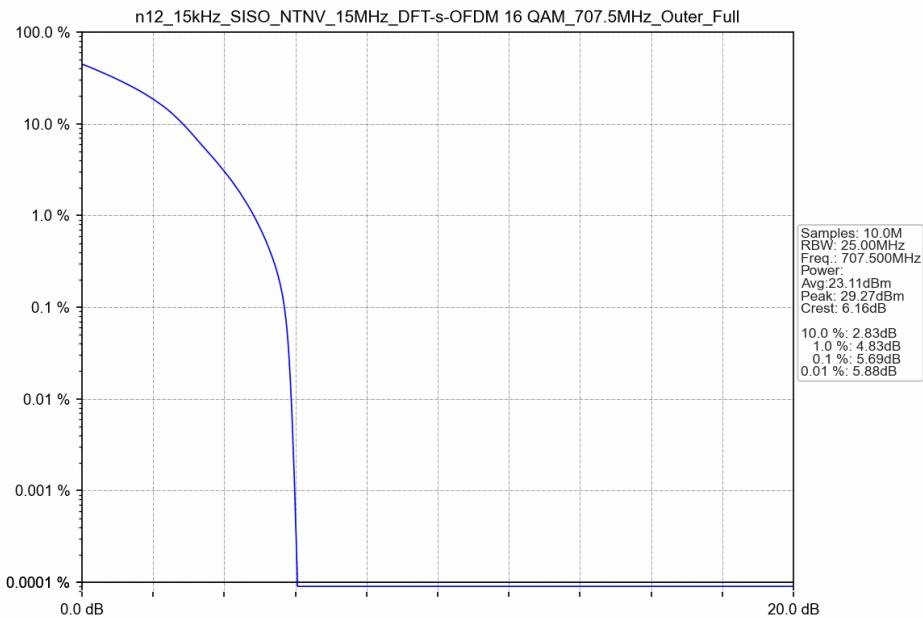
**n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_707.5MHz\_Outer\_Full****n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_708.5MHz\_Outer\_Full**

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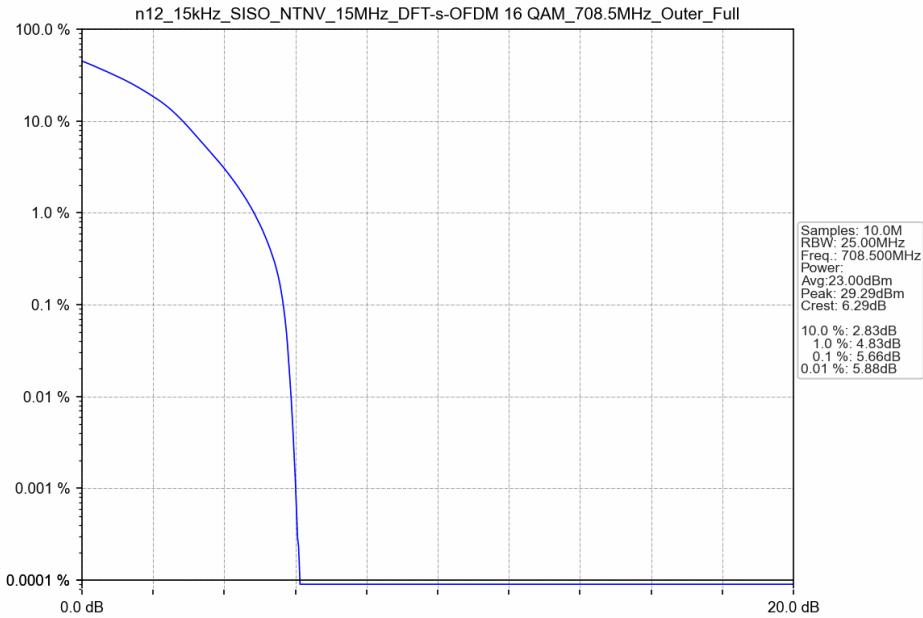
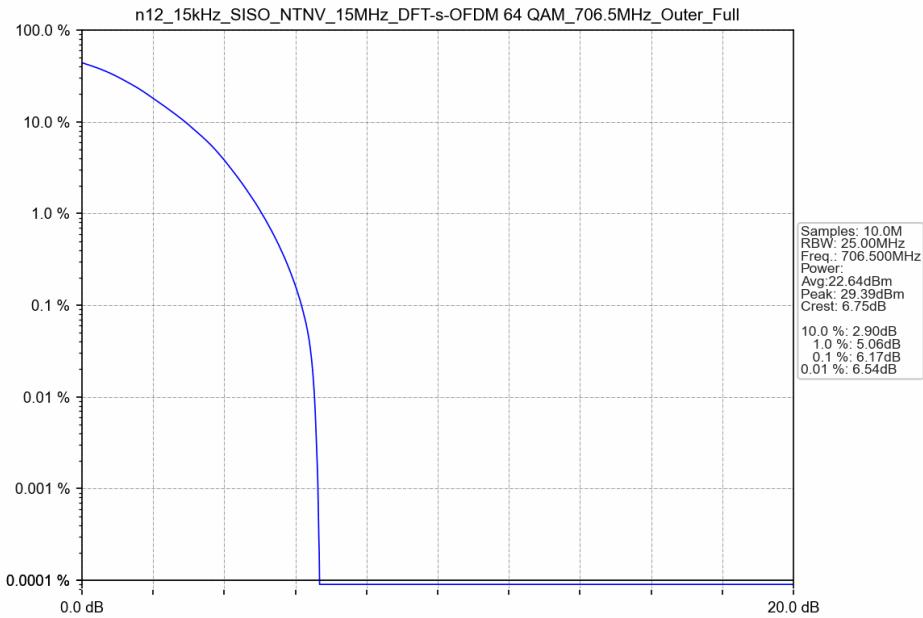
**n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 16 QAM\_706.5MHz\_Outer\_Full****n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 16 QAM\_707.5MHz\_Outer\_Full**

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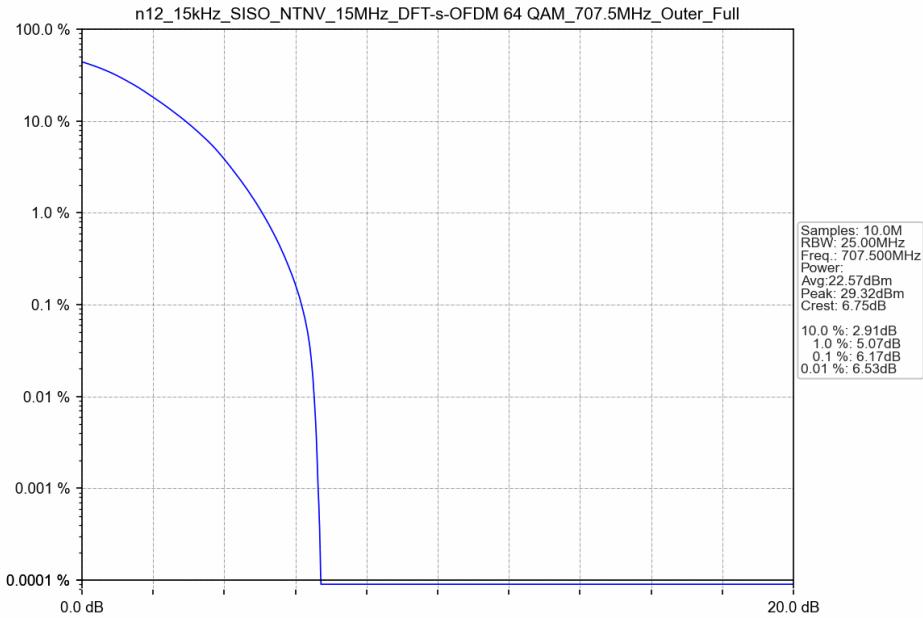
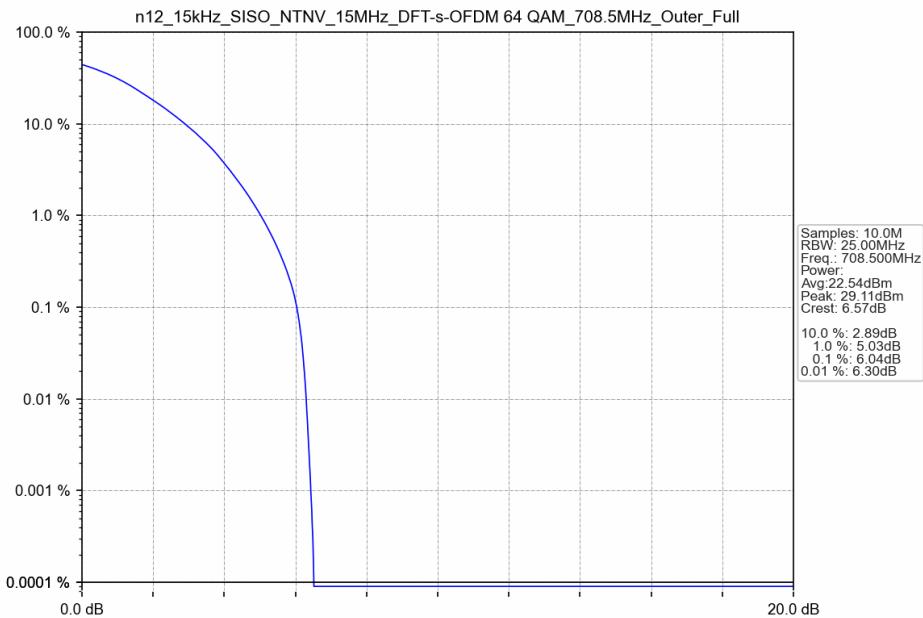
**n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 16 QAM\_708.5MHz\_Outer\_Full****n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 64 QAM\_706.5MHz\_Outer\_Full**

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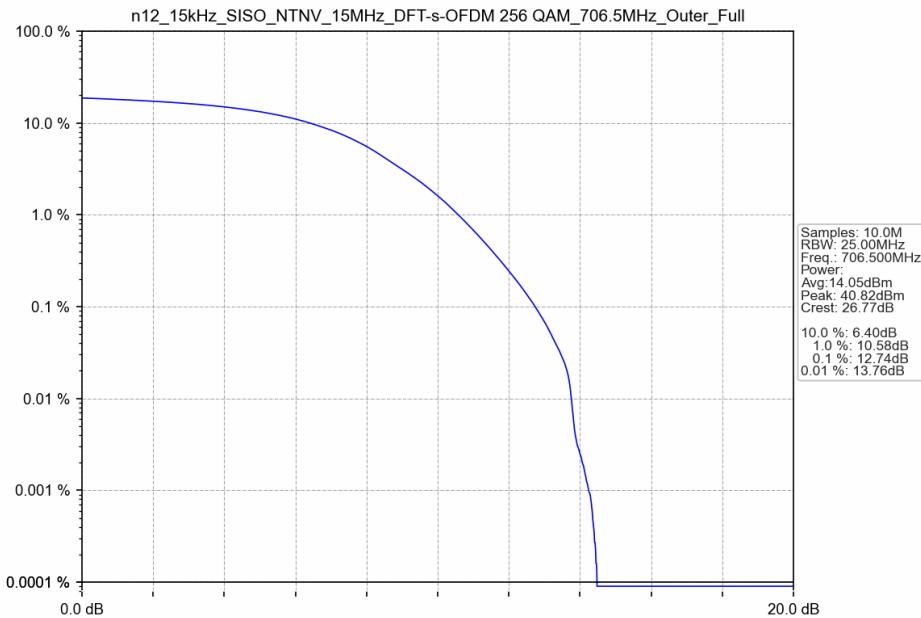
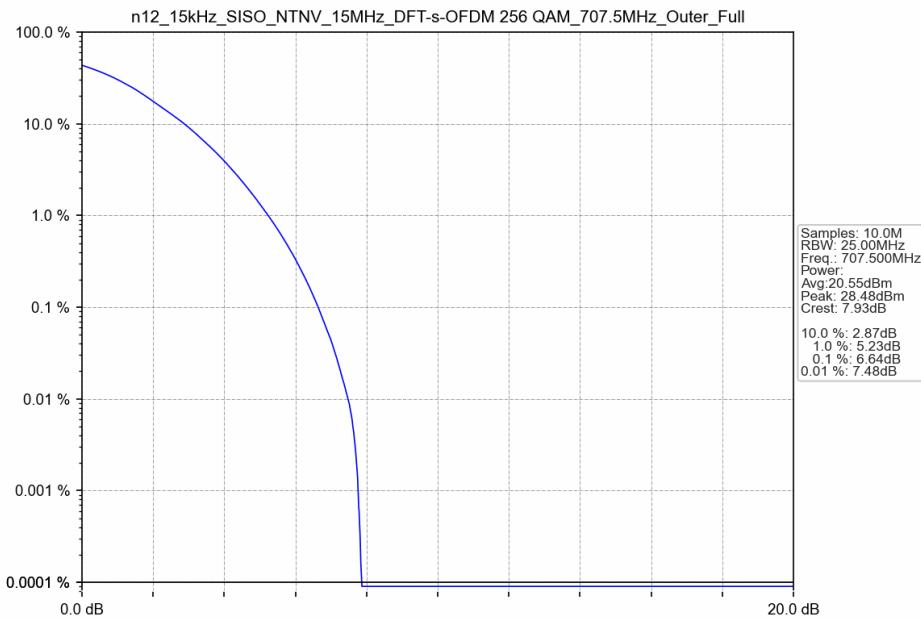
**n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 64 QAM\_707.5MHz\_Outer\_Full****n12\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 64 QAM\_708.5MHz\_Outer\_Full**

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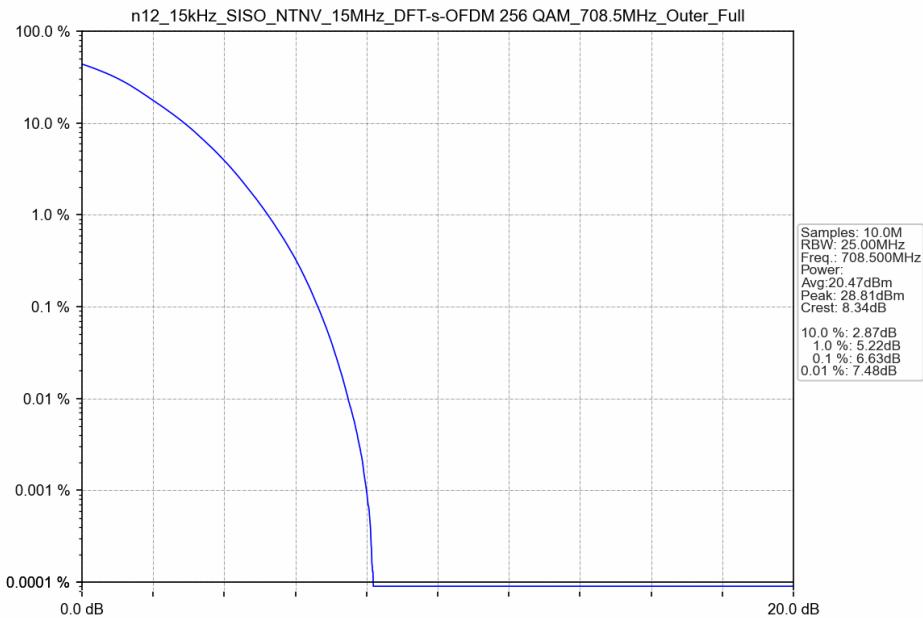
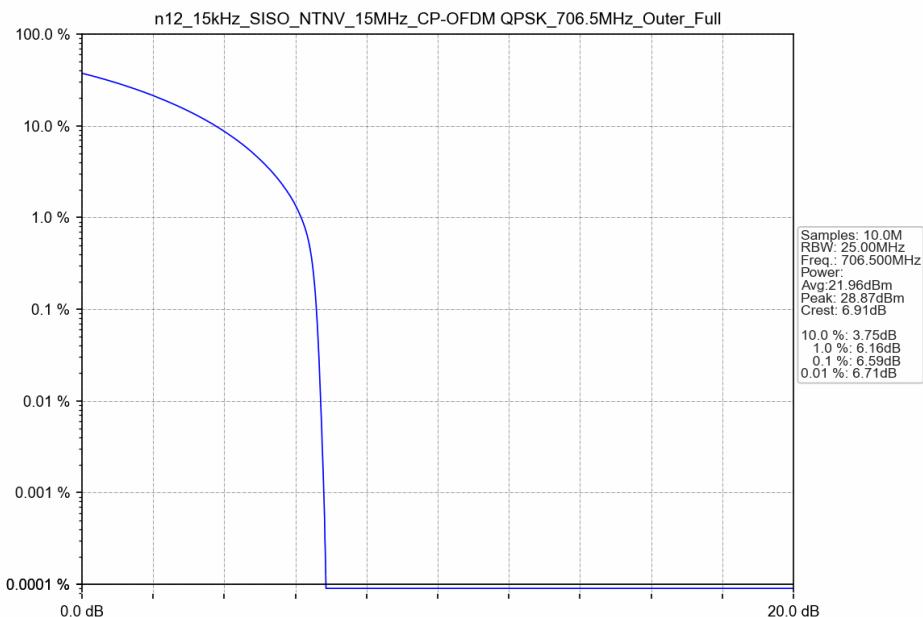
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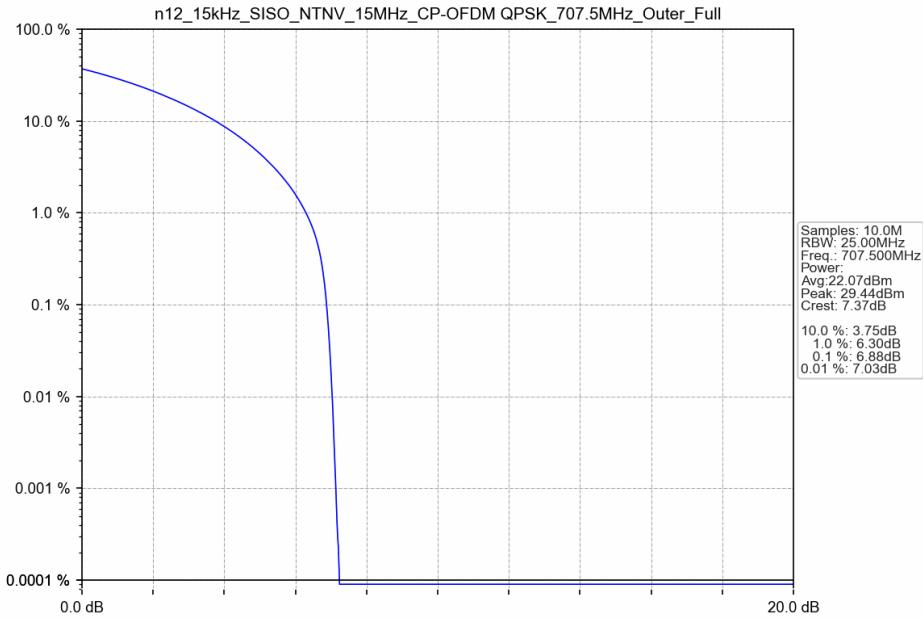
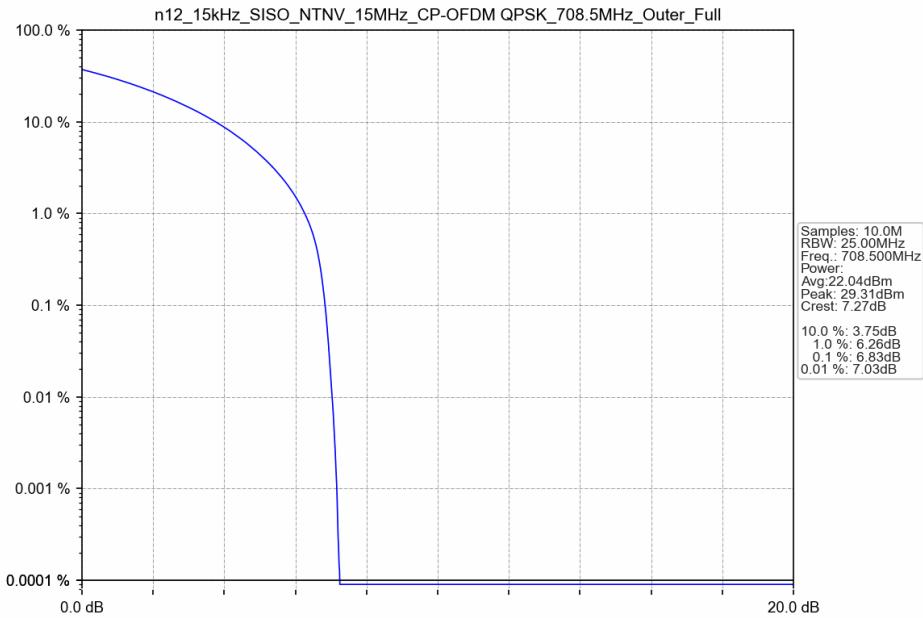
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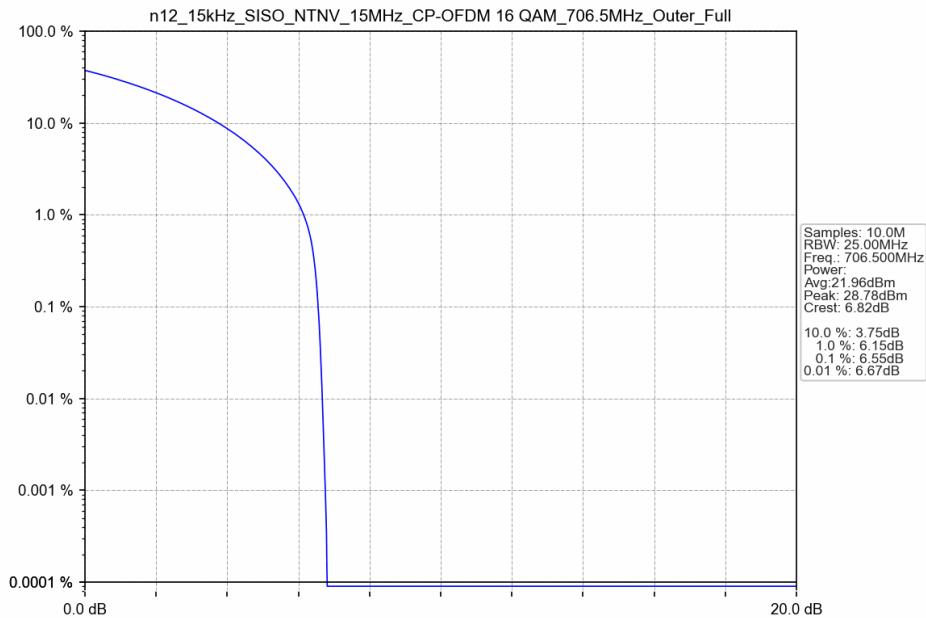
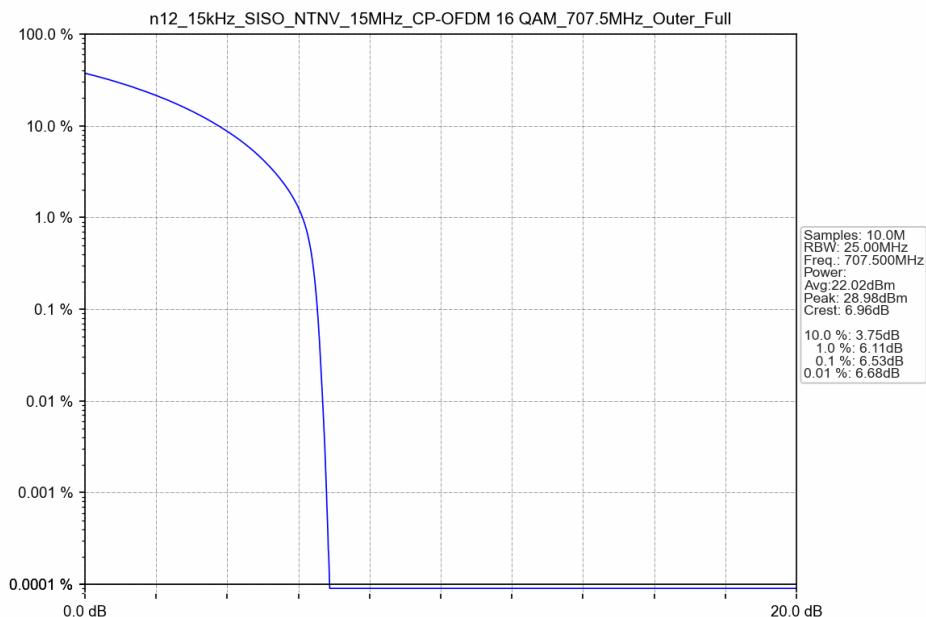
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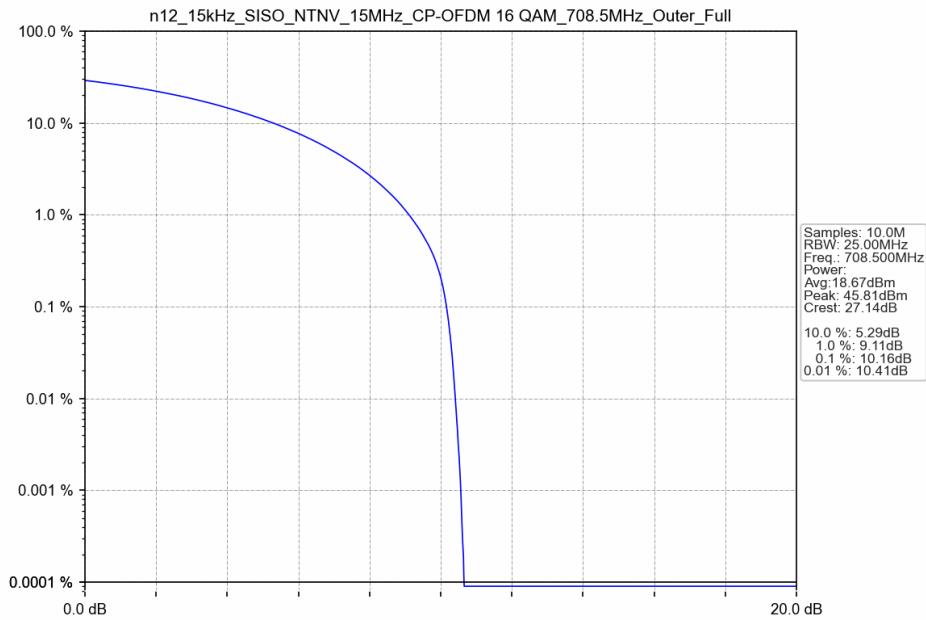
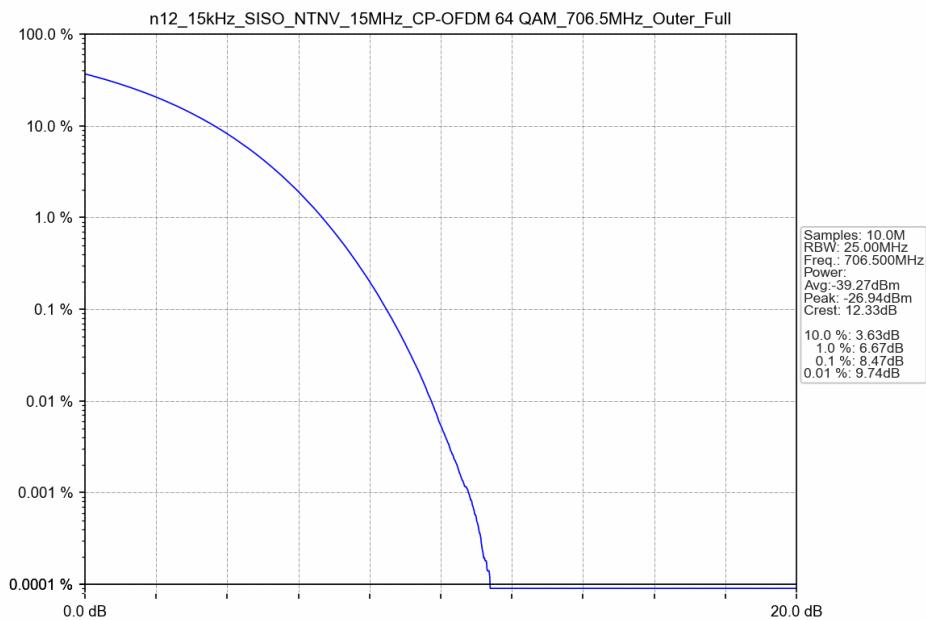
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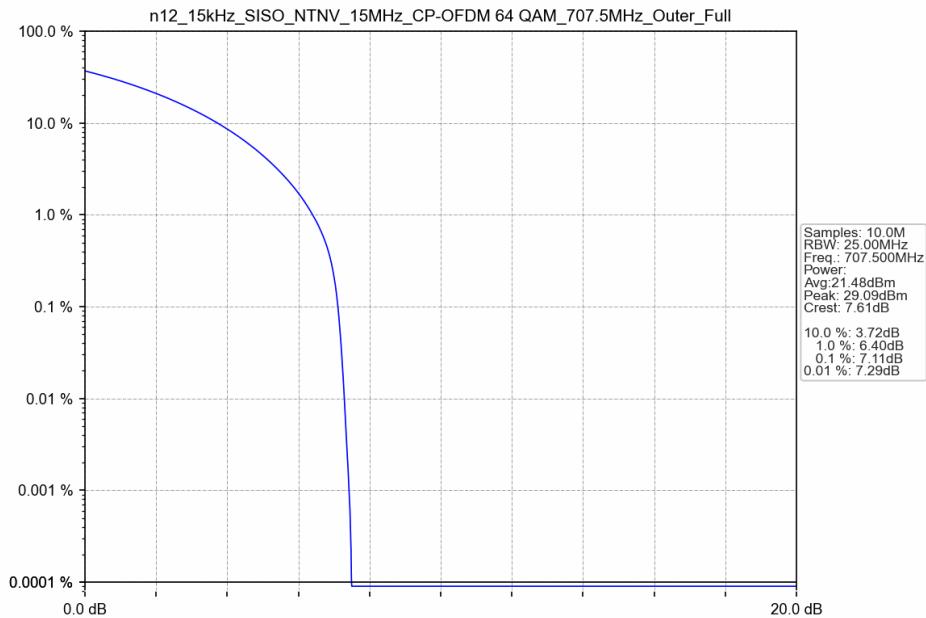
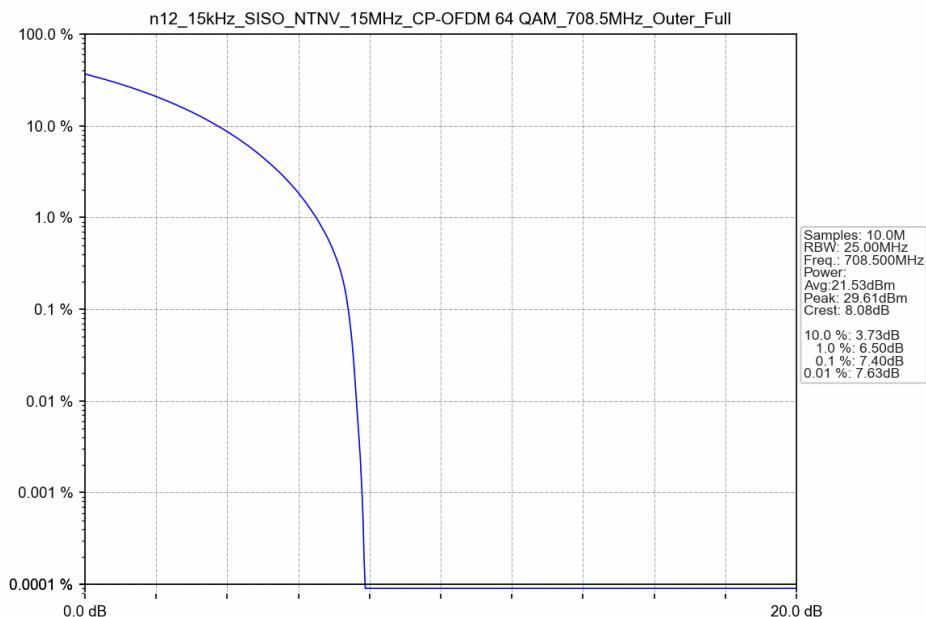
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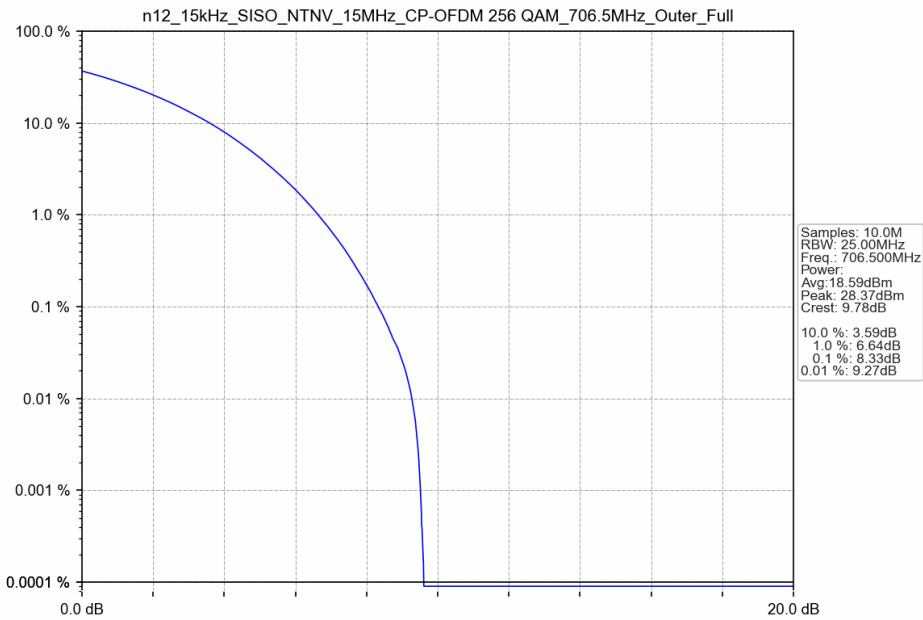
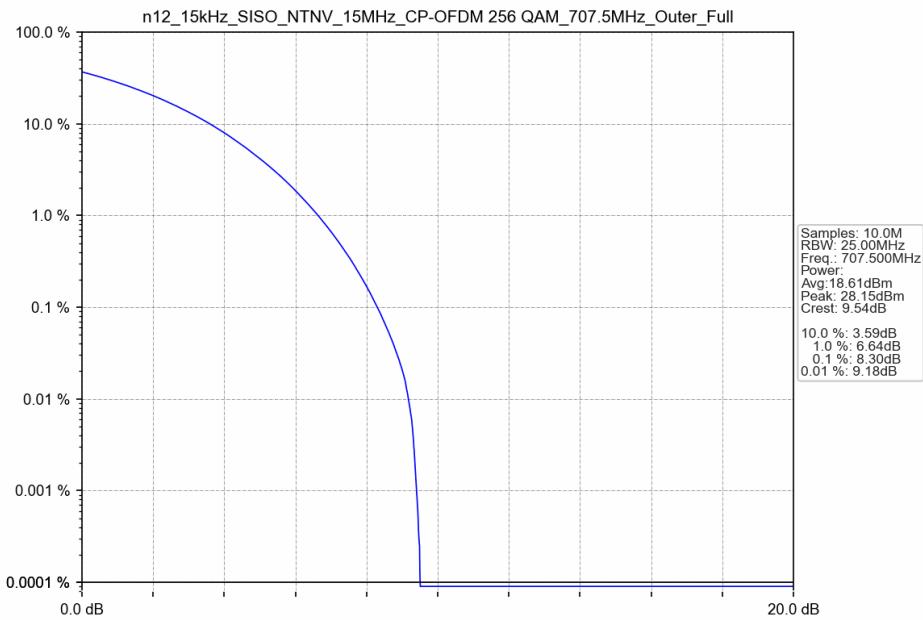
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**n12\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 256 QAM\_706.5MHz\_Outer\_Full****n12\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 256 QAM\_707.5MHz\_Outer\_Full**

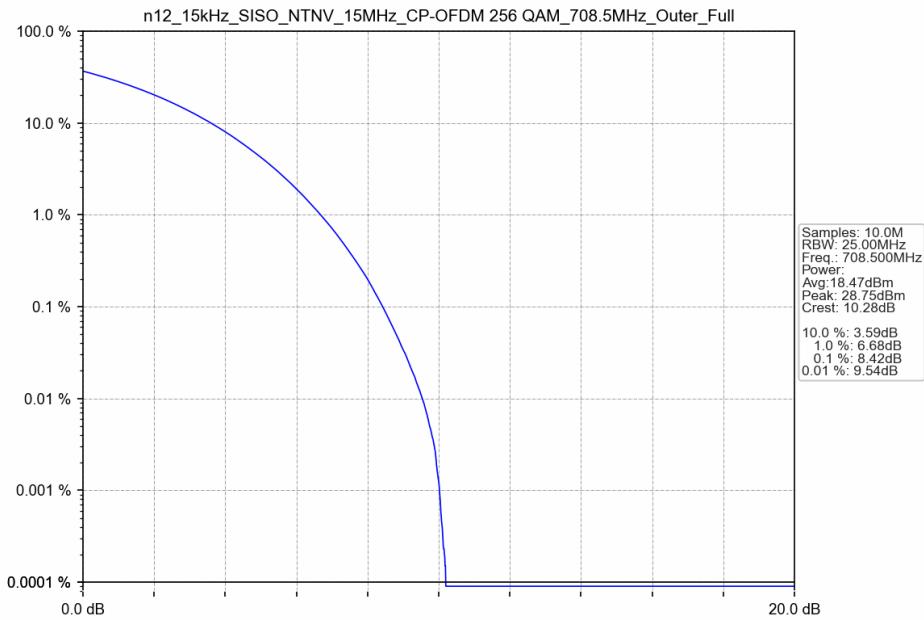
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n12\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 256 QAM\_708.5MHz\_Outer\_Full



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## 5. Spurious Emission

### 5.1 Test Result

#### 5.1.1 15k\_SISO\_5MHz\_NTNV

5G NR n12 SCS=15kHz SISO 5MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant2	Sum	
DFT-s-OFDM PI/2 BPSK	701.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	707.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
DFT-s-OFDM QPSK	713.5	Inner_1RB_Right	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
	701.5	Inner_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
CP-OFDM QPSK	713.5	Inner_1RB_Right	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
	707.5	Inner_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
	701.5	Inner_1RB_Right	Refer To Test Graph			Pass

#### 5.1.2 15k\_SISO\_10MHz\_NTNV

5G NR n12 SCS=15kHz SISO 10MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant2	Sum	
DFT-s-OFDM PI/2	704	Edge_1RB_Left	Refer To Test Graph			Pass



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BPSK		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Left	Refer To Test Graph	Pass
	707.5	Edge_1RB_Left	Refer To Test Graph	Pass
		Edge_1RB_Right	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Right	Refer To Test Graph	Pass
DFT-s-OFDM QPSK	704	Edge_1RB_Left	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Left	Refer To Test Graph	Pass
	711	Edge_1RB_Left	Refer To Test Graph	Pass
		Edge_1RB_Right	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
CP-OFDM QPSK	704	Inner_1RB_Right	Refer To Test Graph	Pass
		Edge_1RB_Left	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
	707.5	Inner_1RB_Left	Refer To Test Graph	Pass
		Edge_1RB_Left	Refer To Test Graph	Pass
		Edge_1RB_Right	Refer To Test Graph	Pass
	711	Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Right	Refer To Test Graph	Pass
		Edge_1RB_Left	Refer To Test Graph	Pass

### 5.1.3 15k\_SISO\_15MHz\_NTNV

5G NR n12 SCS=15kHz SISO 15MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant2	Sum	
DFT-s-OFDM PI/2 BPSK	706.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	707.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
DFT-s-OFDM QPSK	706.5	Inner_1RB_Right	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
	707.5	Inner_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
	708.5	Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Right	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass



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		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Right	Refer To Test Graph	Pass
CP-OFDM QPSK	706.5	Edge_1RB_Left	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Left	Refer To Test Graph	Pass
	707.5	Edge_1RB_Left	Refer To Test Graph	Pass
	708.5	Edge_1RB_Right	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Right	Refer To Test Graph	Pass



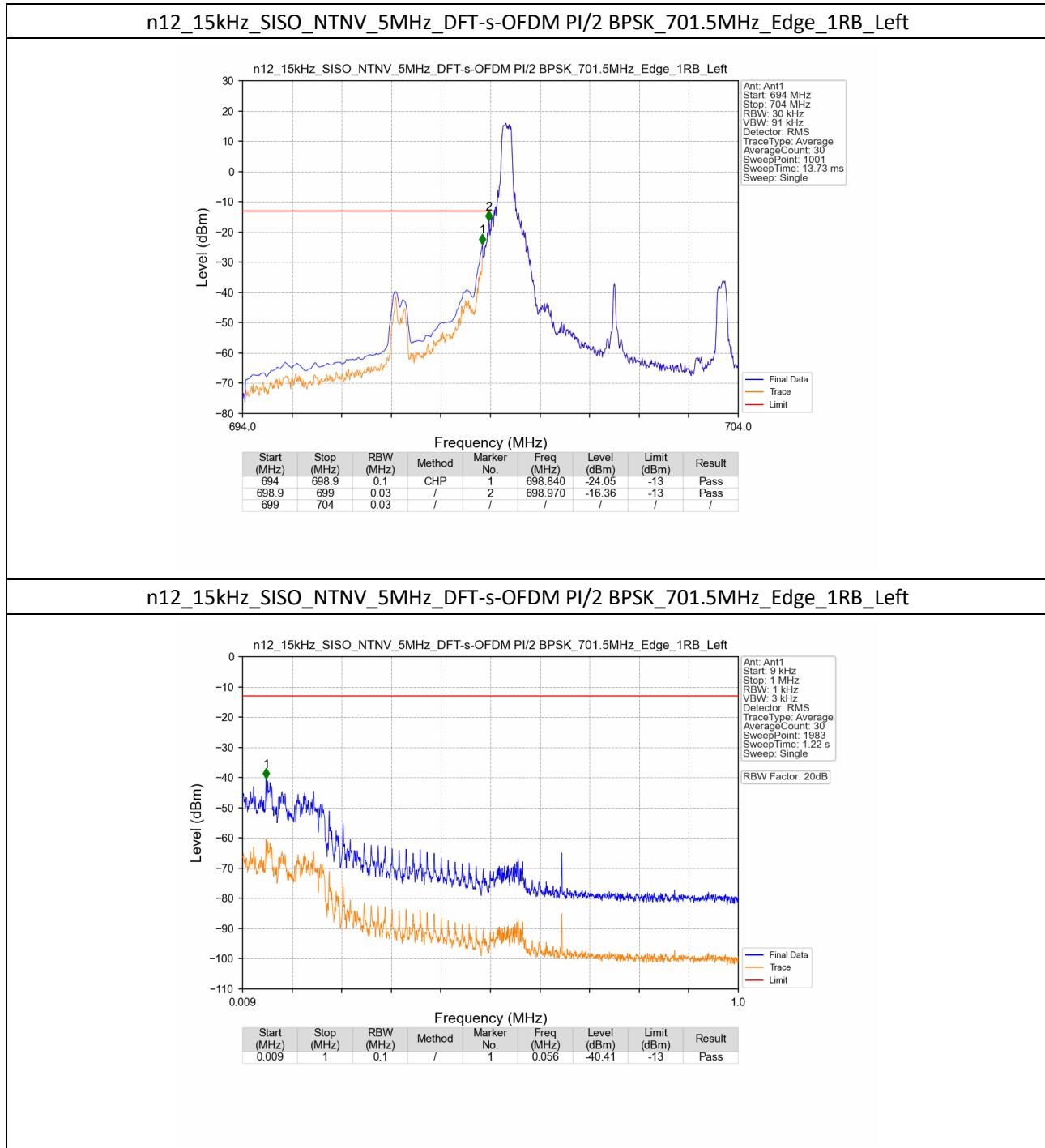
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## 5.2 Test Graph

## 5.2.1 15k\_SISO\_5MHz\_NTNV



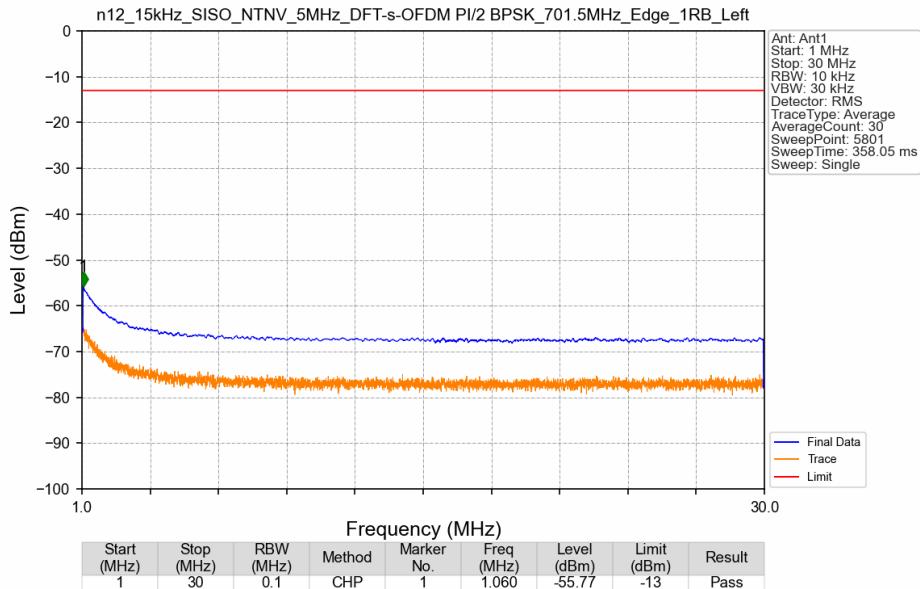
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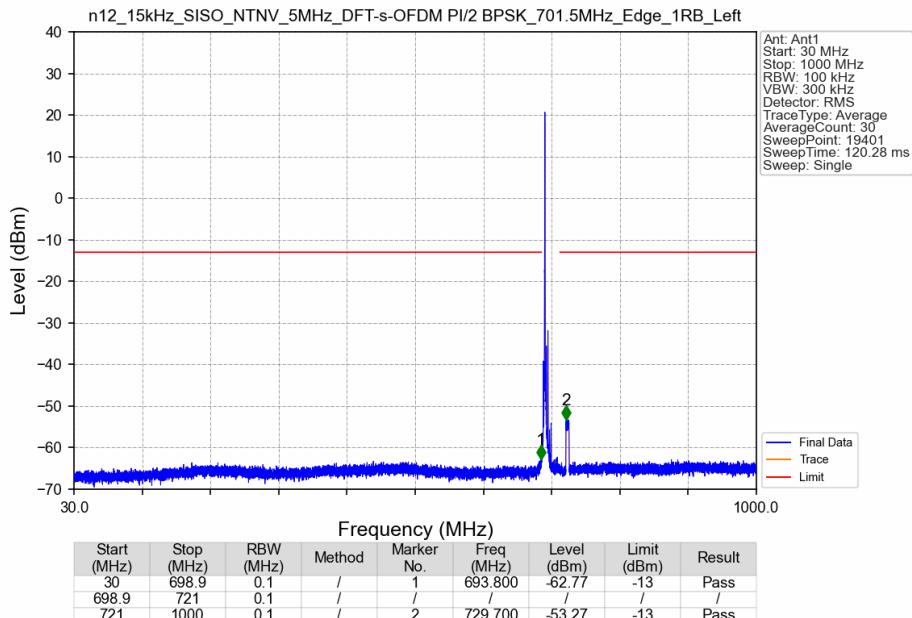
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## n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_701.5MHz\_Edge\_1RB\_Left



## n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_701.5MHz\_Edge\_1RB\_Left



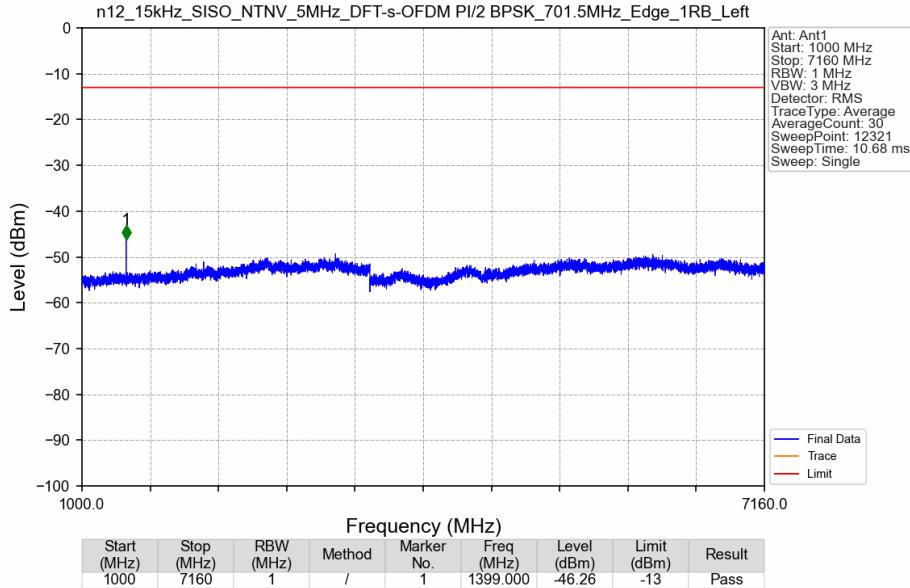
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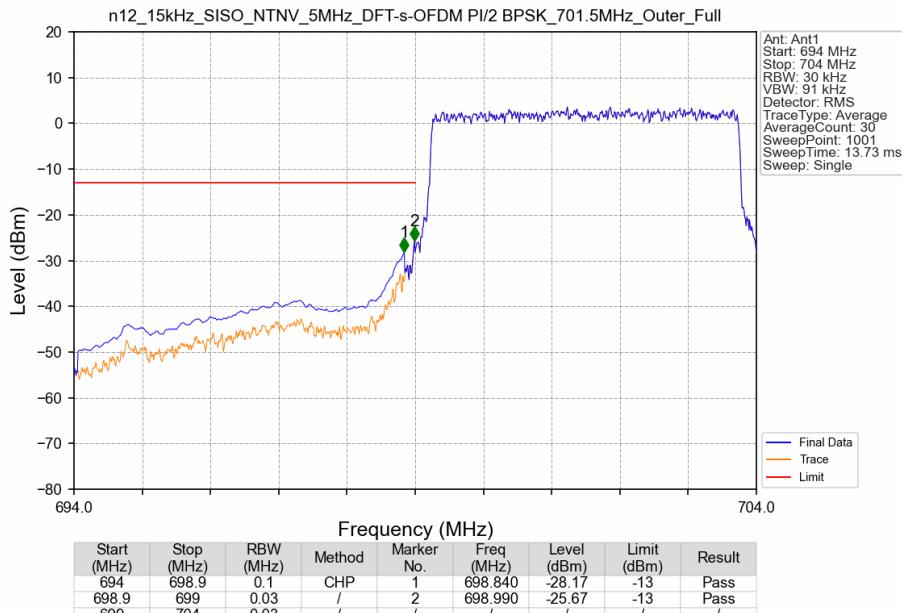
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## n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_701.5MHz\_Outer\_Full



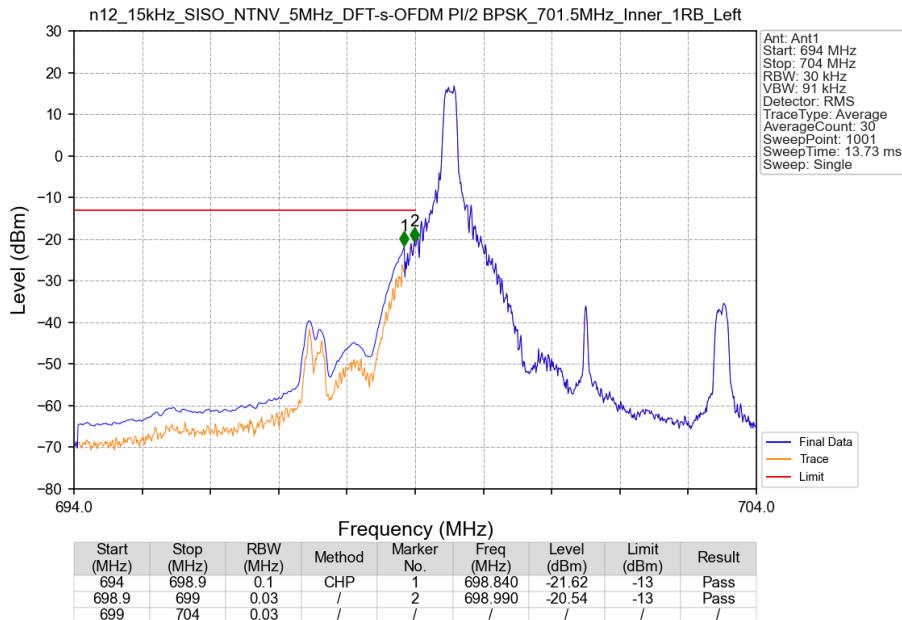
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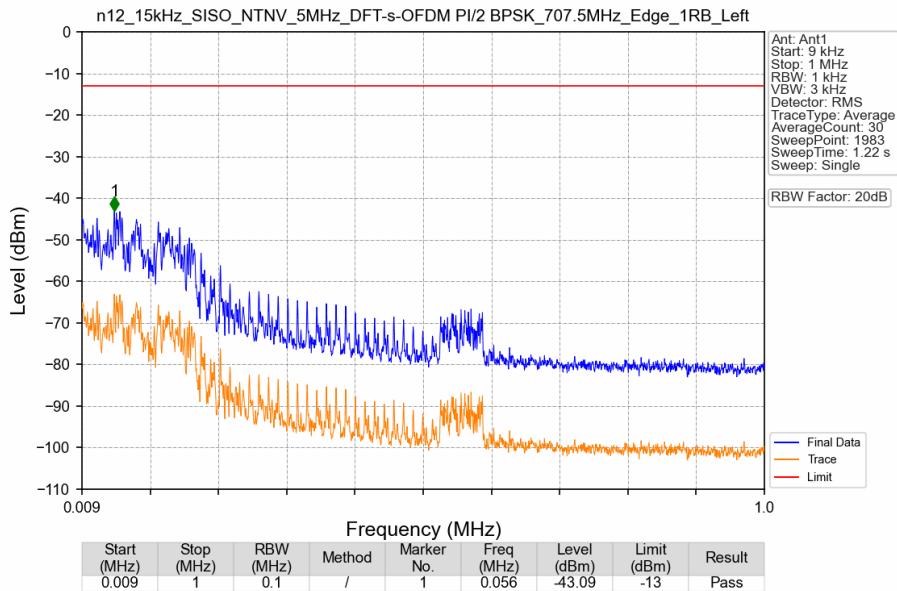
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## n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_701.5MHz\_Inner\_1RB\_Left



## n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_707.5MHz\_Edge\_1RB\_Left

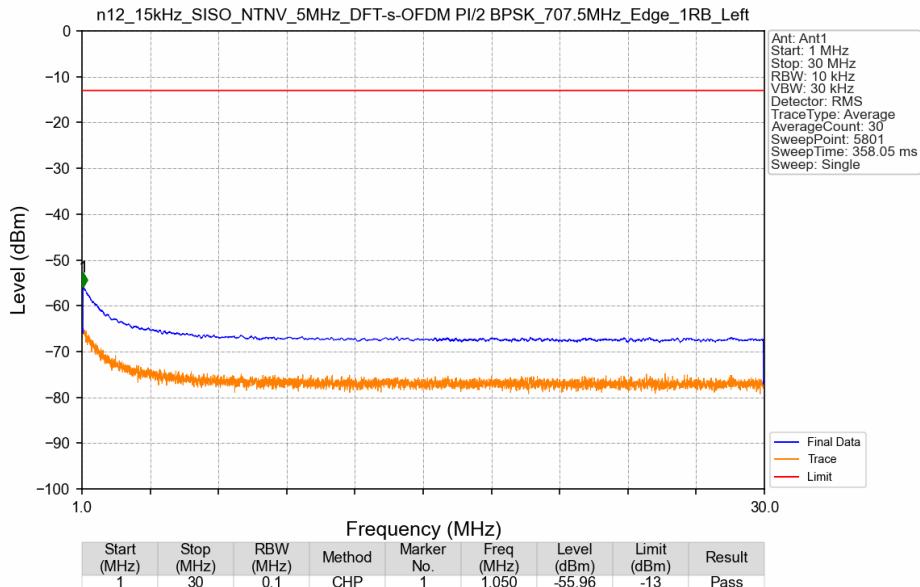


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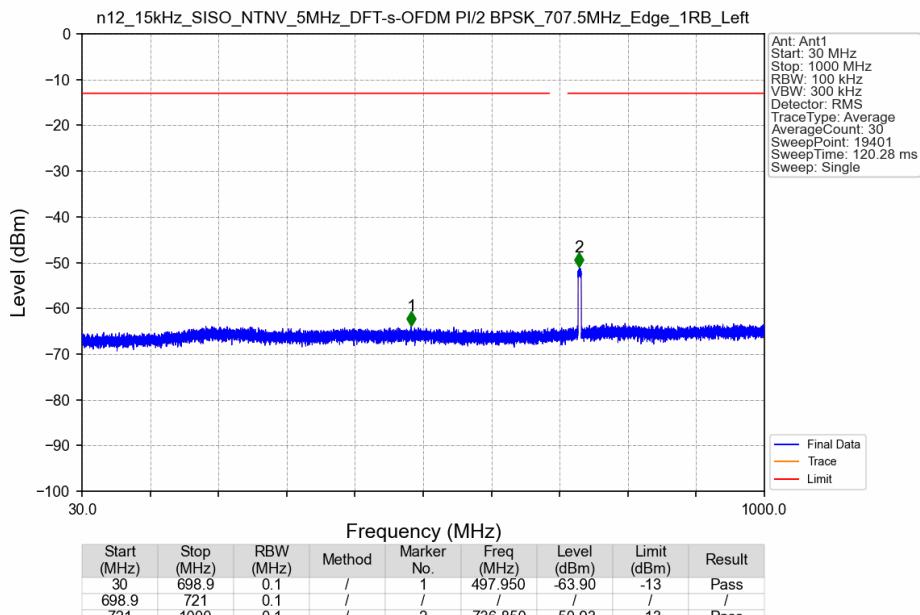
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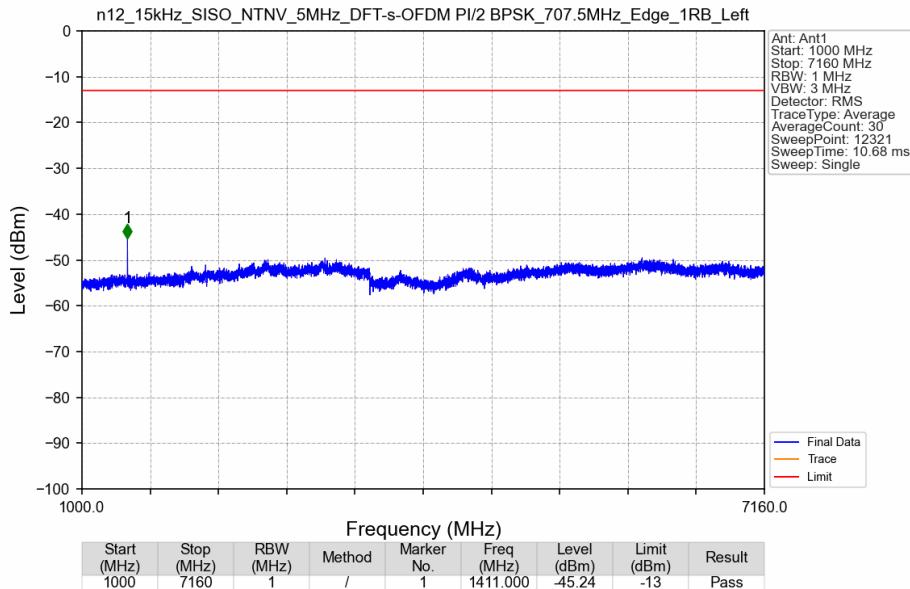
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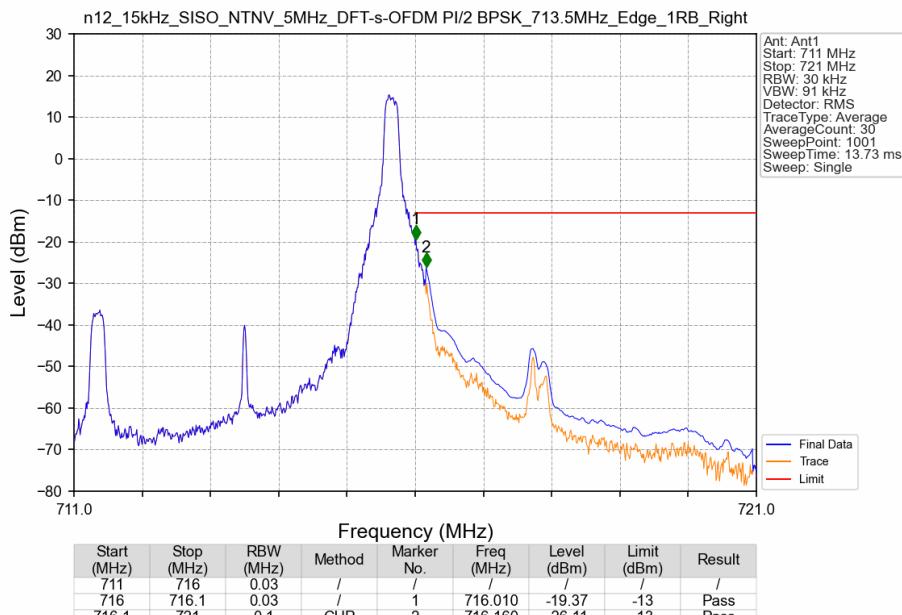
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## n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_707.5MHz\_Edge\_1RB\_Left



## n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_713.5MHz\_Edge\_1RB\_Right



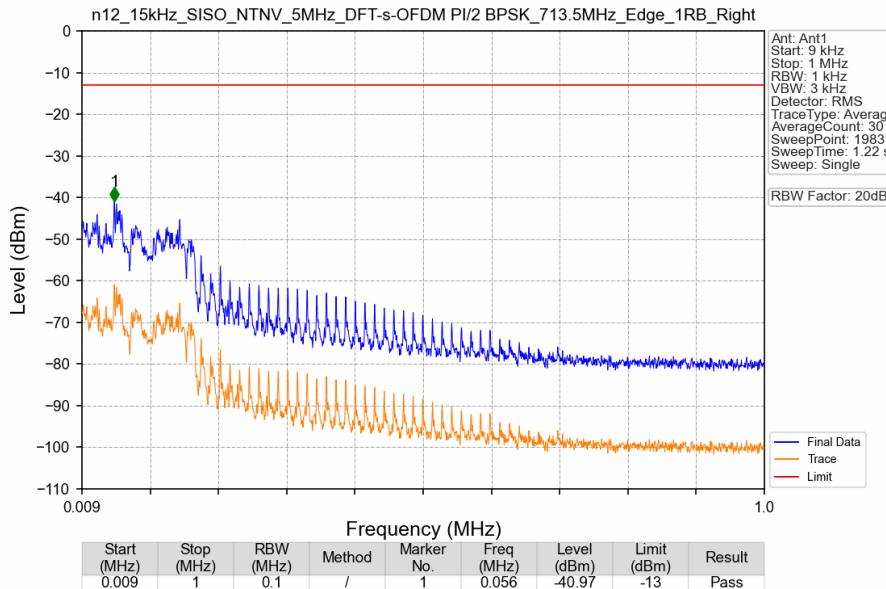
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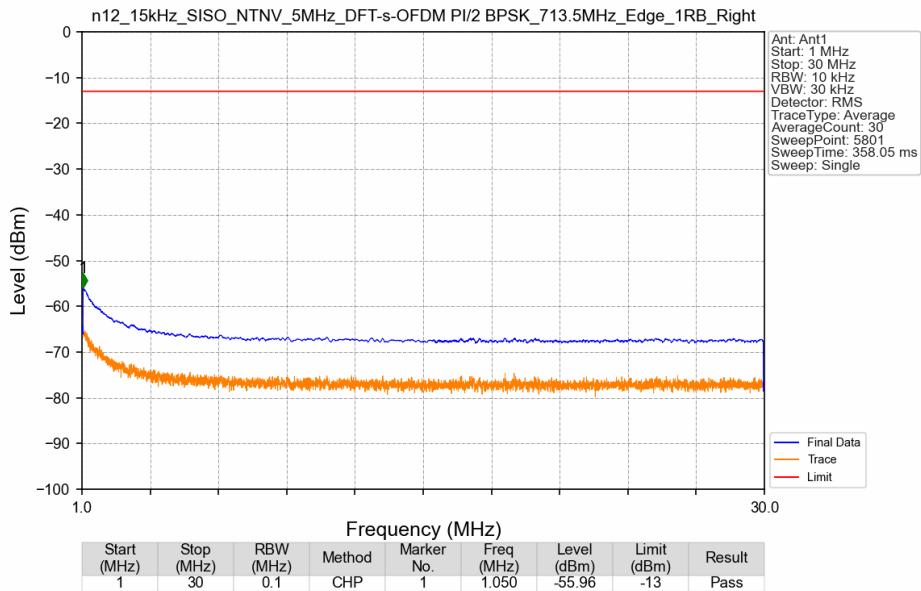
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## n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_713.5MHz\_Edge\_1RB\_Right



## n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_713.5MHz\_Edge\_1RB\_Right



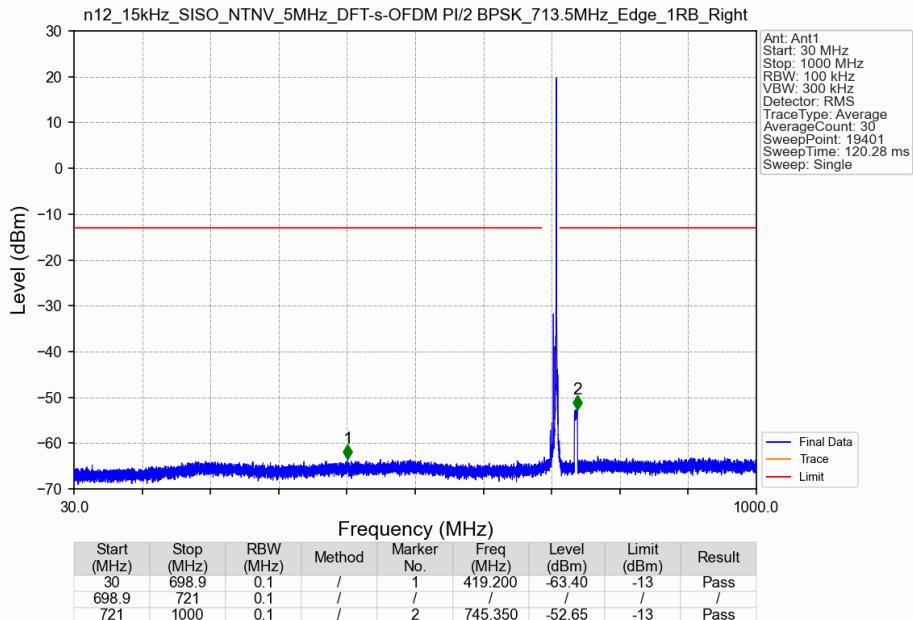
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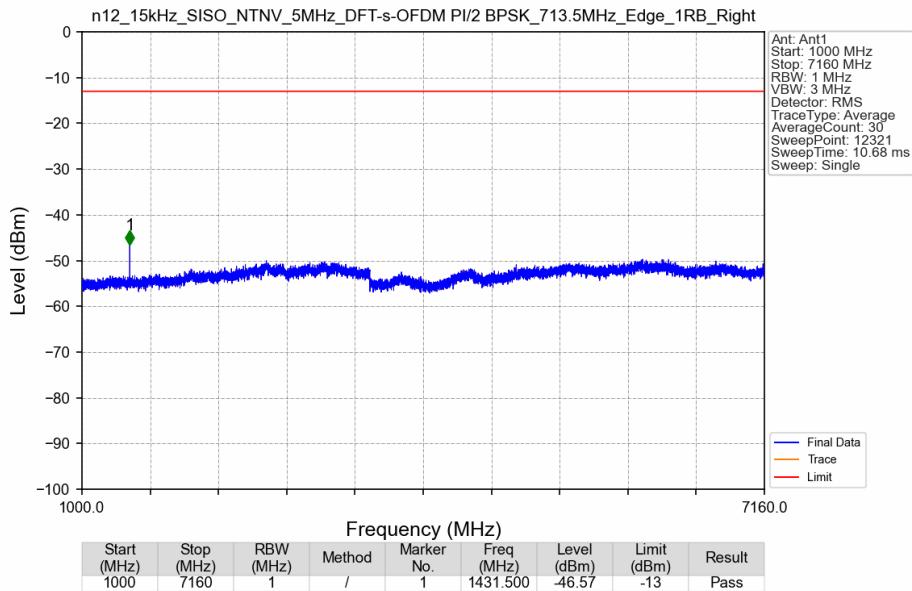
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## n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_713.5MHz\_Edge\_1RB\_Right



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