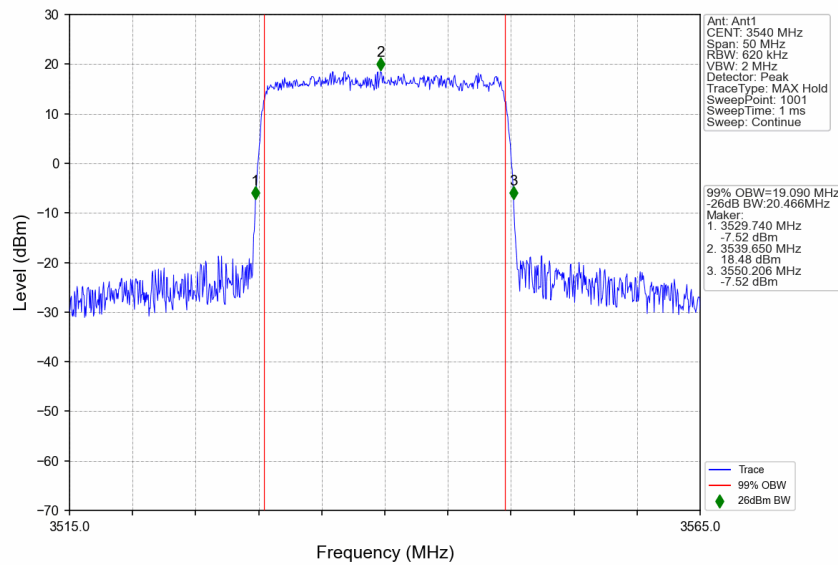
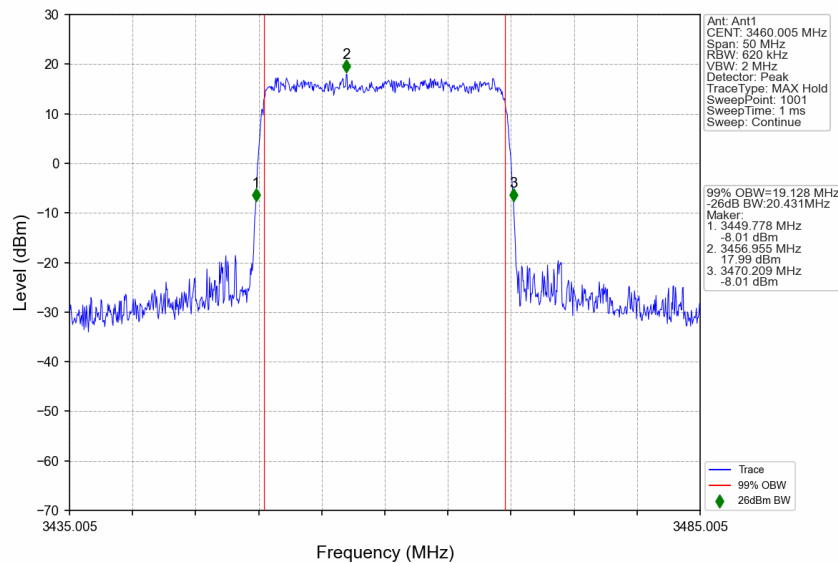


n77d_15kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_3540MHz_Outer_Full



n77d_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3460.005MHz_Outer_Full

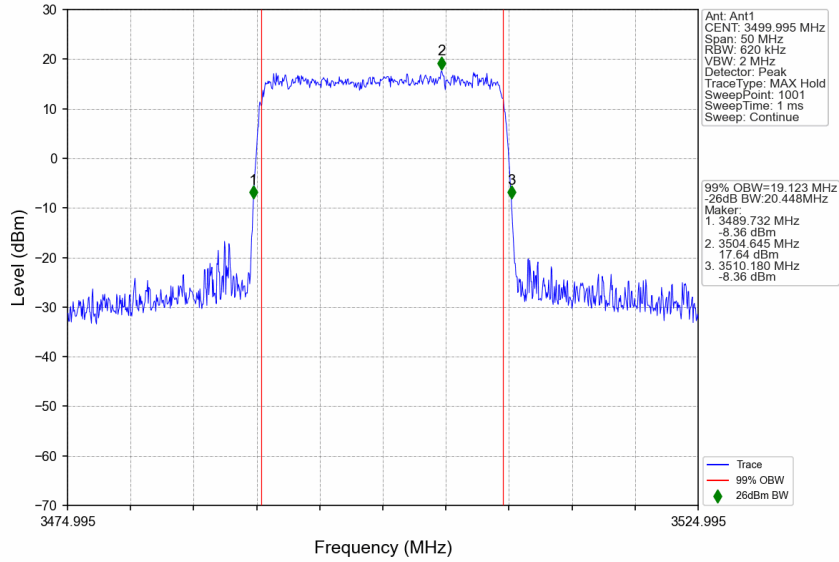


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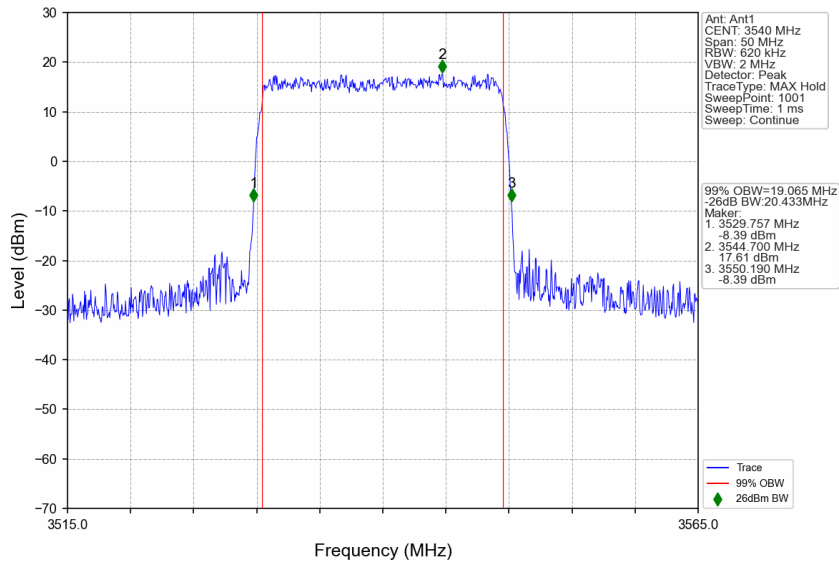
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n77d_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3499.995MHz_Outer_Full



n77d_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3540MHz_Outer_Full

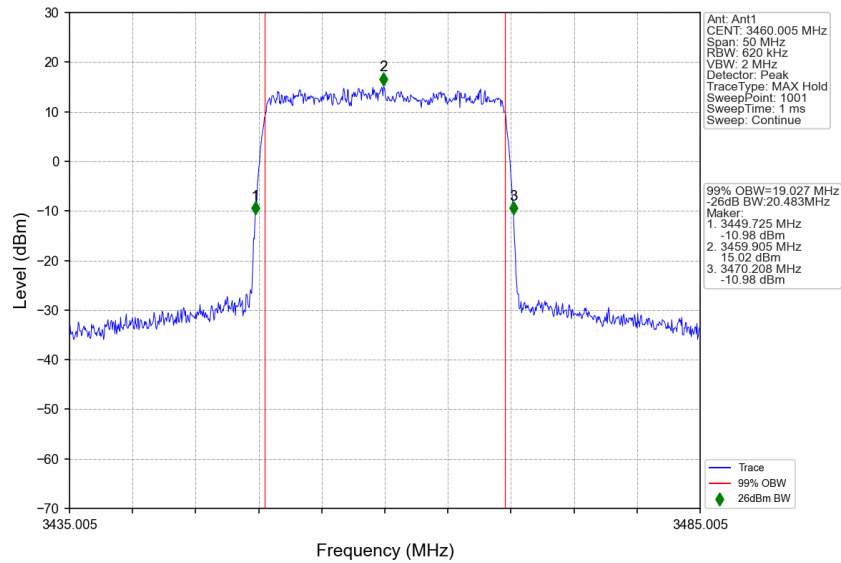


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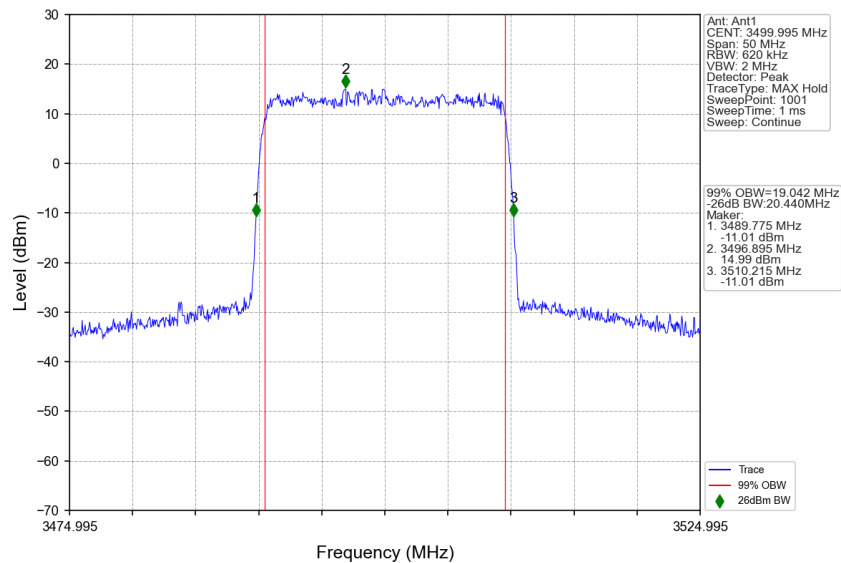
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n77d_15kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_3460.005MHz_Outer_Full



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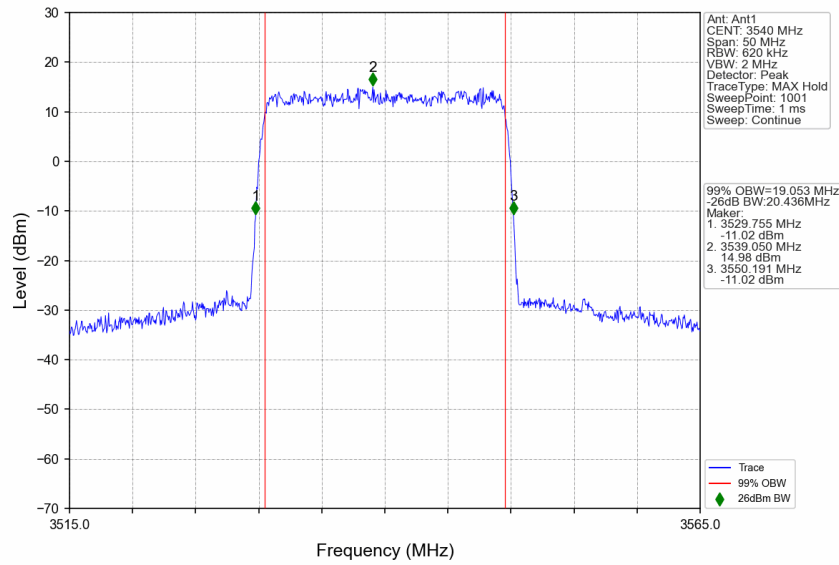


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n77d_15kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_3540MHz_Outer_Full



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 Wireless Laboratory

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4.4 15k_SISO_25MHz_NTNV

4.4.1 Test Result

5G NR n77d SCS=15kHz SISO 25MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3462.51	Outer_Full	23.09	24.70	/	Pass
	3499.995	Outer_Full	23.09	24.70	/	Pass
	3537.495	Outer_Full	23.16	24.66	/	Pass
DFT-s-OFDM QPSK	3462.51	Outer_Full	23.07	24.71	/	Pass
	3499.995	Outer_Full	23.11	24.68	/	Pass
	3537.495	Outer_Full	23.10	24.70	/	Pass
DFT-s-OFDM 16 QAM	3462.51	Outer_Full	23.08	24.67	/	Pass
	3499.995	Outer_Full	23.04	24.68	/	Pass
	3537.495	Outer_Full	23.08	24.69	/	Pass
DFT-s-OFDM 64 QAM	3462.51	Outer_Full	23.09	24.75	/	Pass
	3499.995	Outer_Full	23.05	24.74	/	Pass
	3537.495	Outer_Full	23.15	24.72	/	Pass
DFT-s-OFDM 256 QAM	3462.51	Outer_Full	23.02	24.66	/	Pass
	3499.995	Outer_Full	23.02	24.67	/	Pass
	3537.495	Outer_Full	23.02	24.66	/	Pass
CP-OFDM QPSK	3462.51	Outer_Full	23.88	25.63	/	Pass
	3499.995	Outer_Full	23.93	25.57	/	Pass
	3537.495	Outer_Full	23.91	25.57	/	Pass
CP-OFDM 16 QAM	3462.51	Outer_Full	23.86	25.55	/	Pass
	3499.995	Outer_Full	23.88	25.62	/	Pass
	3537.495	Outer_Full	23.93	25.53	/	Pass
CP-OFDM 64 QAM	3462.51	Outer_Full	23.95	25.59	/	Pass
	3499.995	Outer_Full	23.95	25.61	/	Pass
	3537.495	Outer_Full	23.94	25.60	/	Pass
CP-OFDM 256 QAM	3462.51	Outer_Full	23.91	25.60	/	Pass
	3499.995	Outer_Full	23.91	25.55	/	Pass
	3537.495	Outer_Full	23.90	25.61	/	Pass

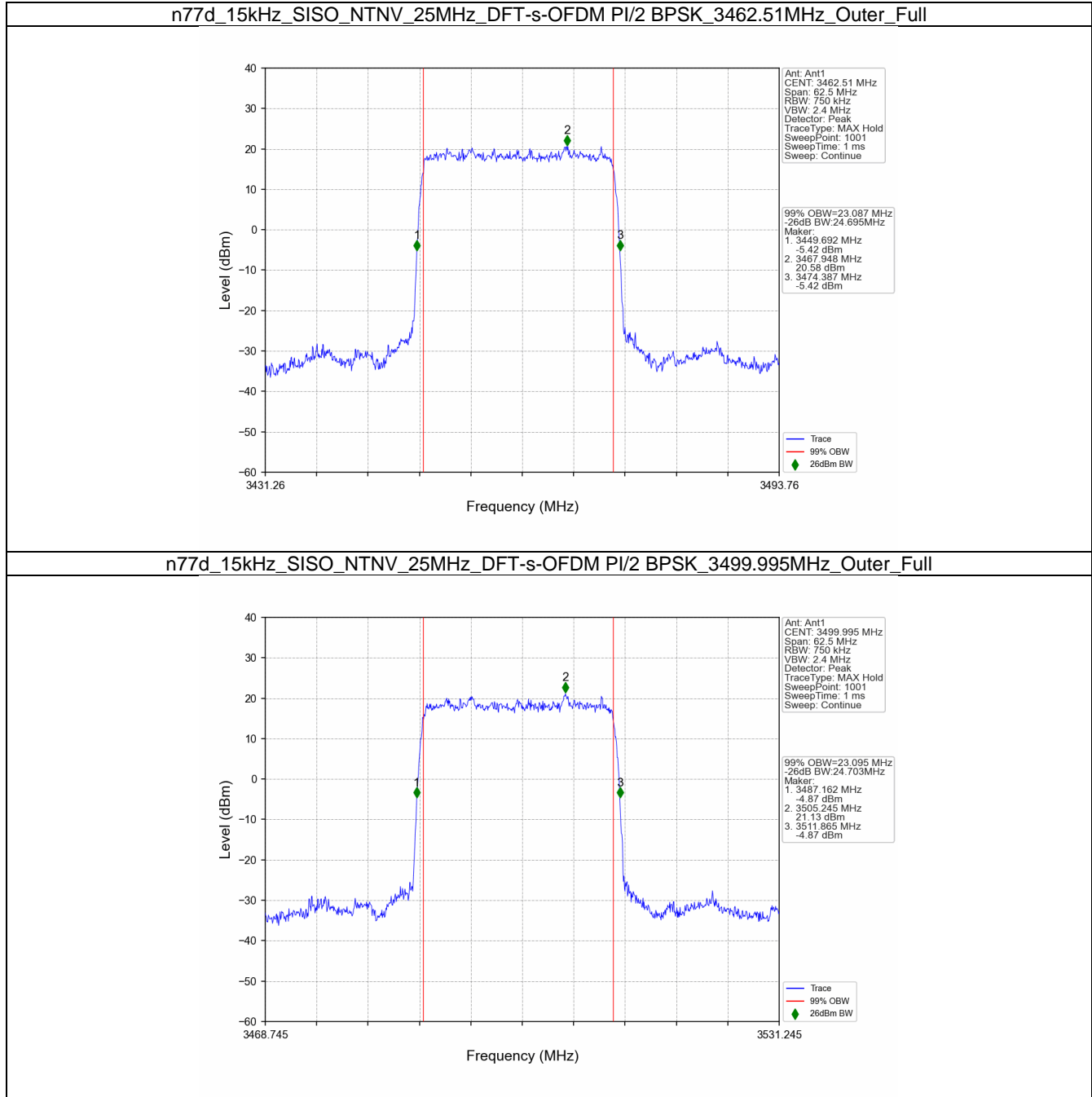


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4.4.2 Test Graph

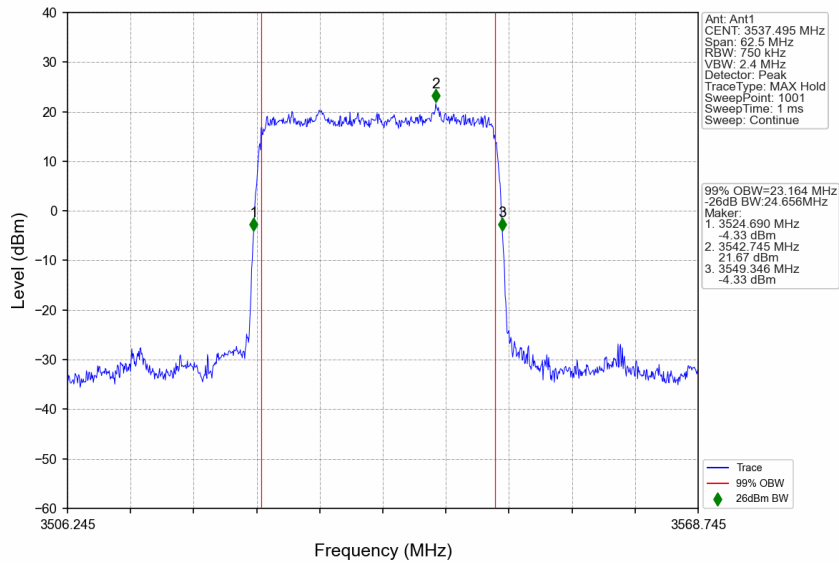


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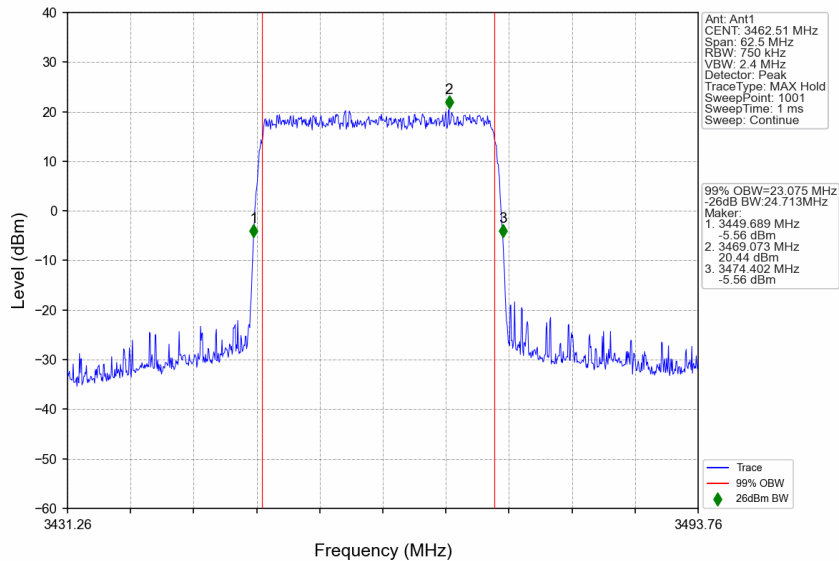
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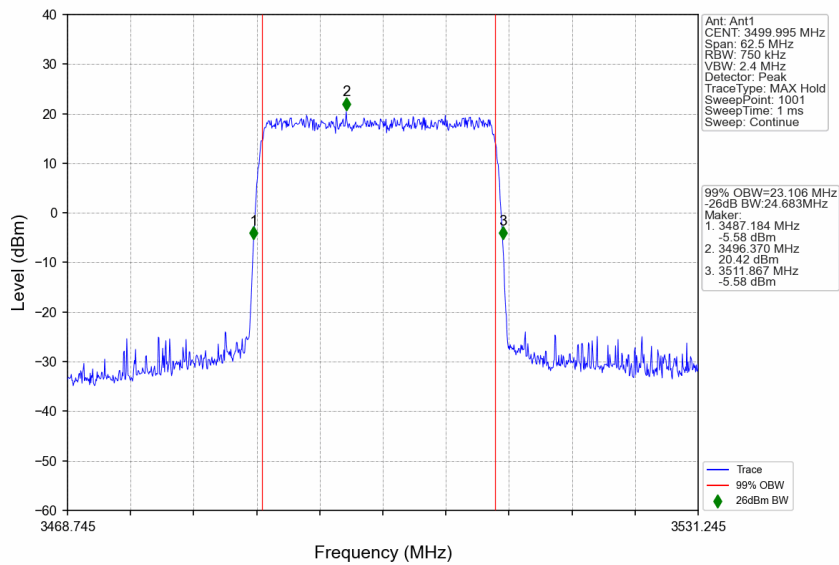


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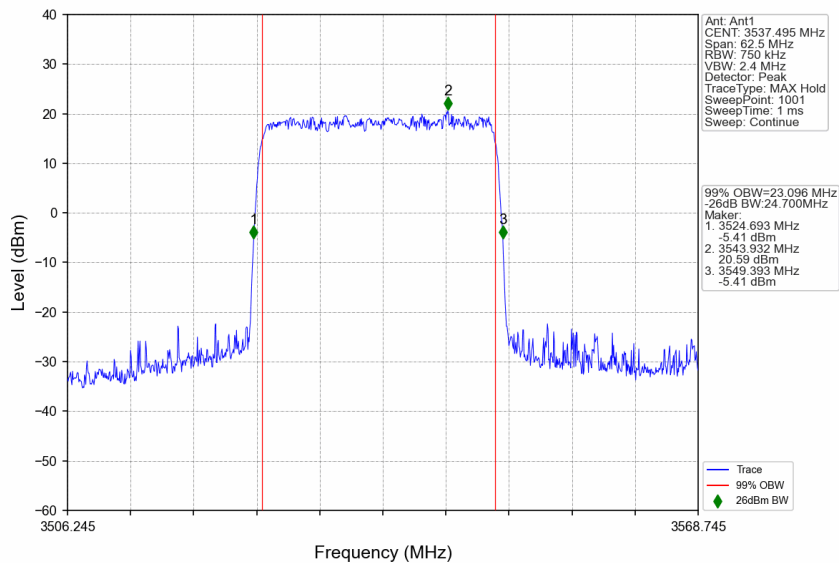
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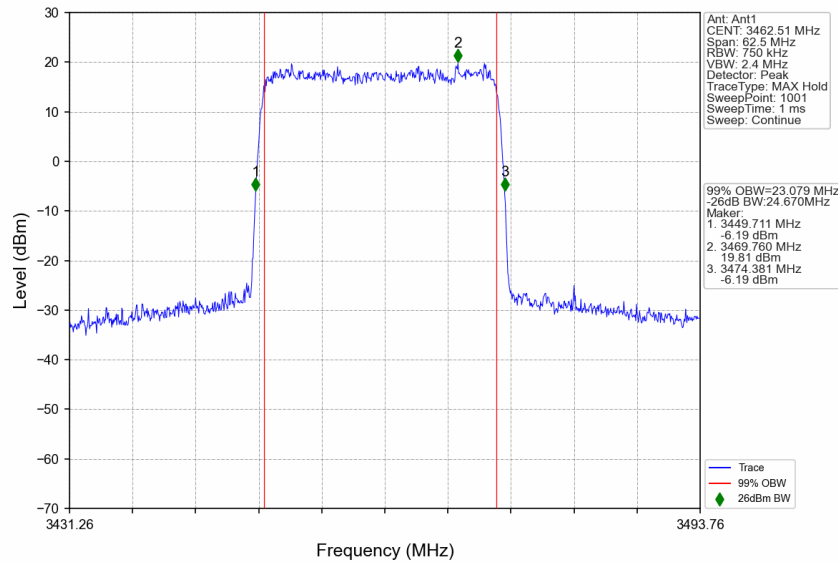


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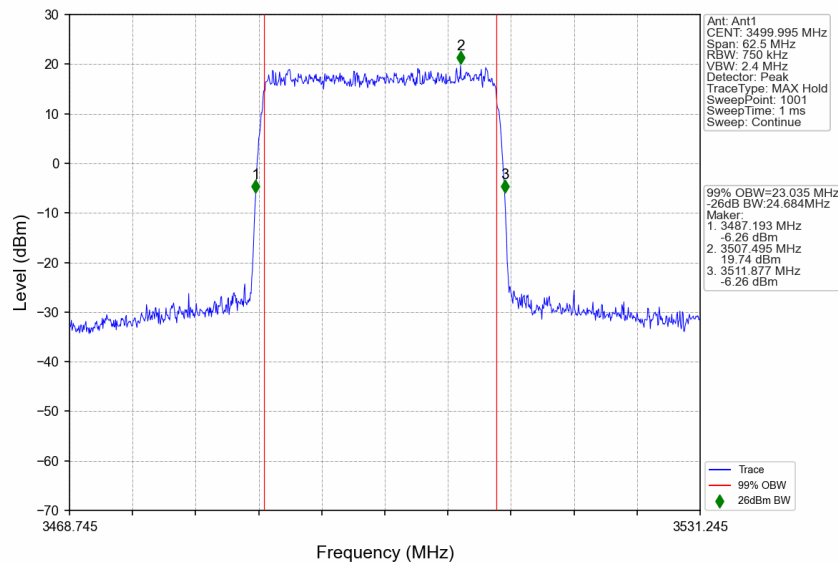
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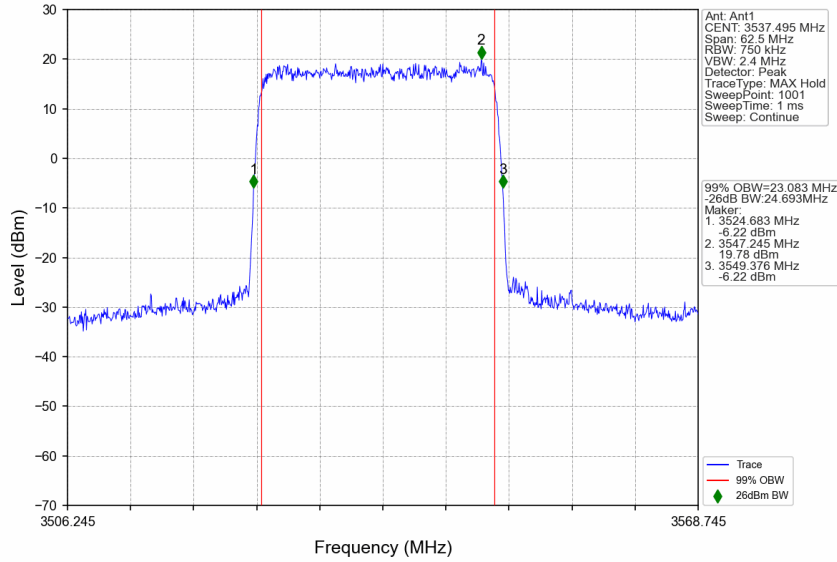


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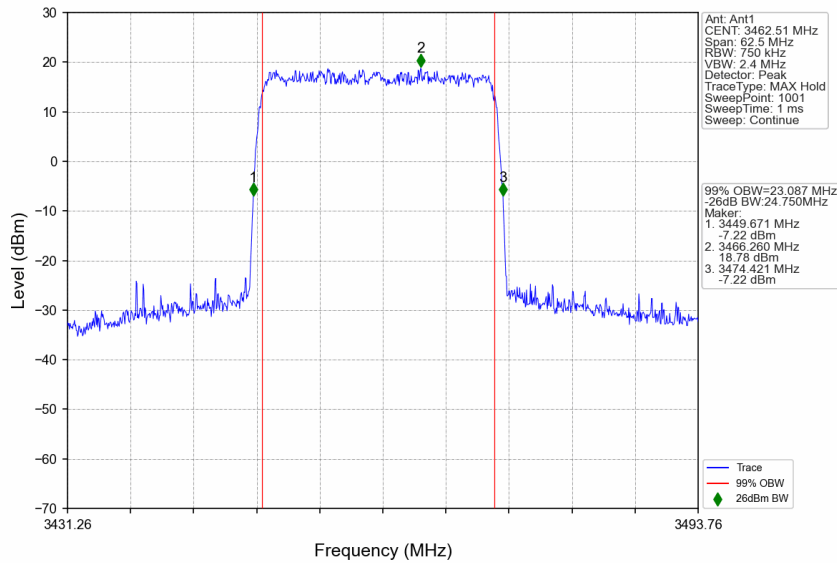
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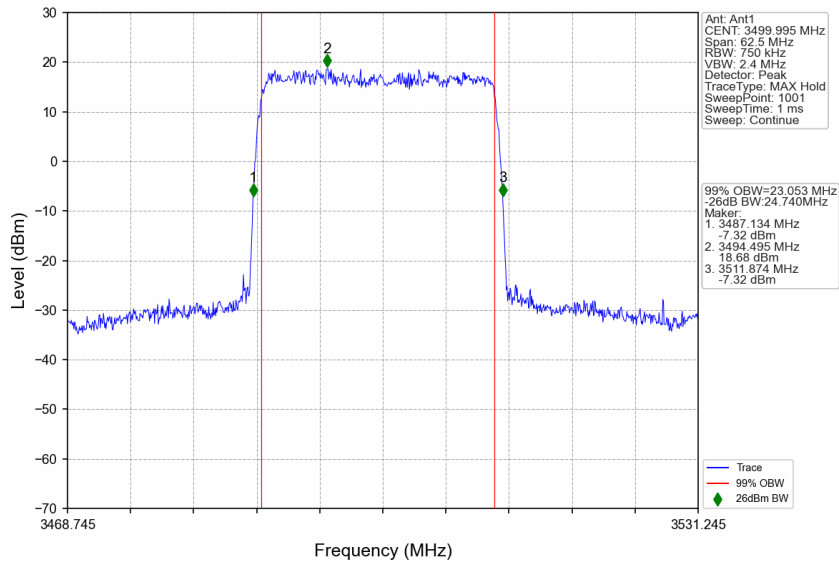


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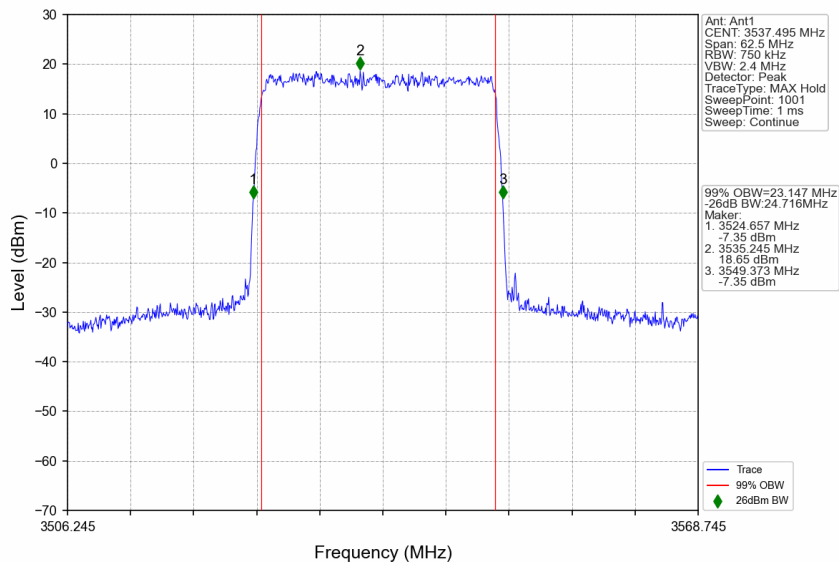
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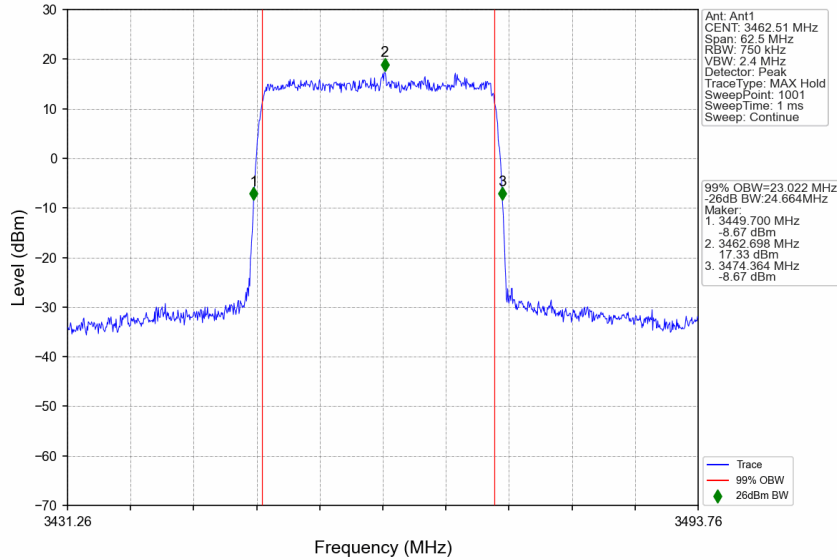


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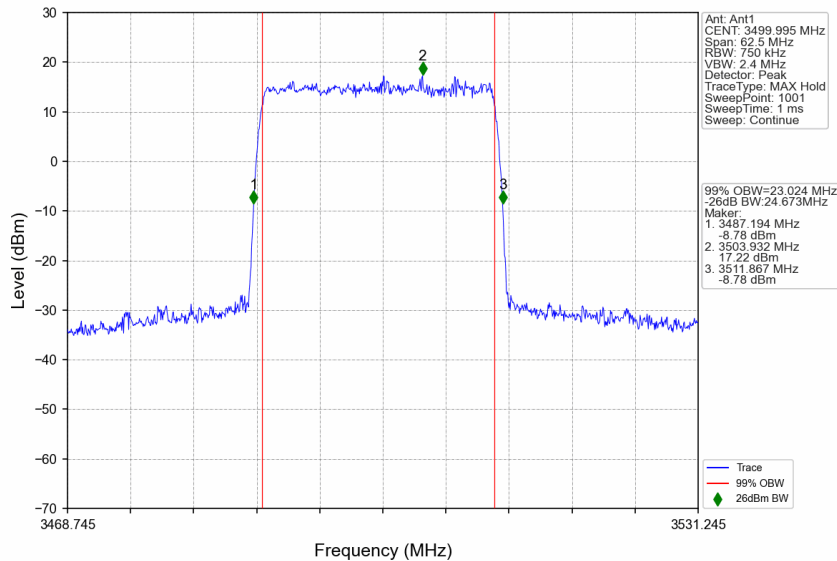
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n77d_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 256 QAM_3462.51MHz_Outer_Full



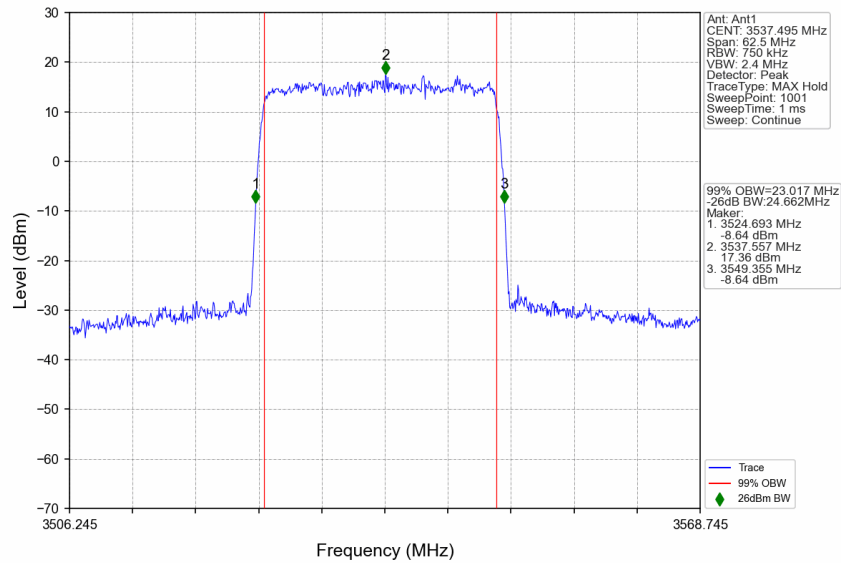
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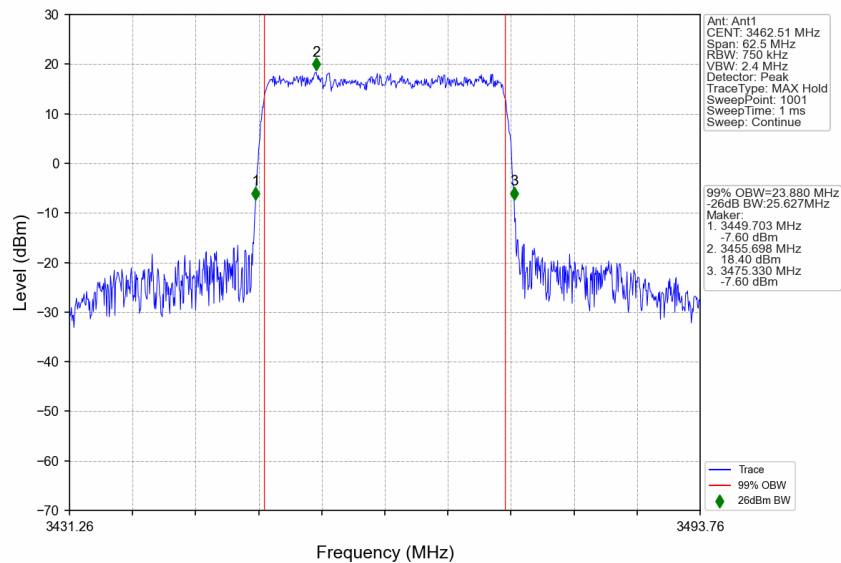
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n77d_15kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_3462.51MHz_Outer_Full

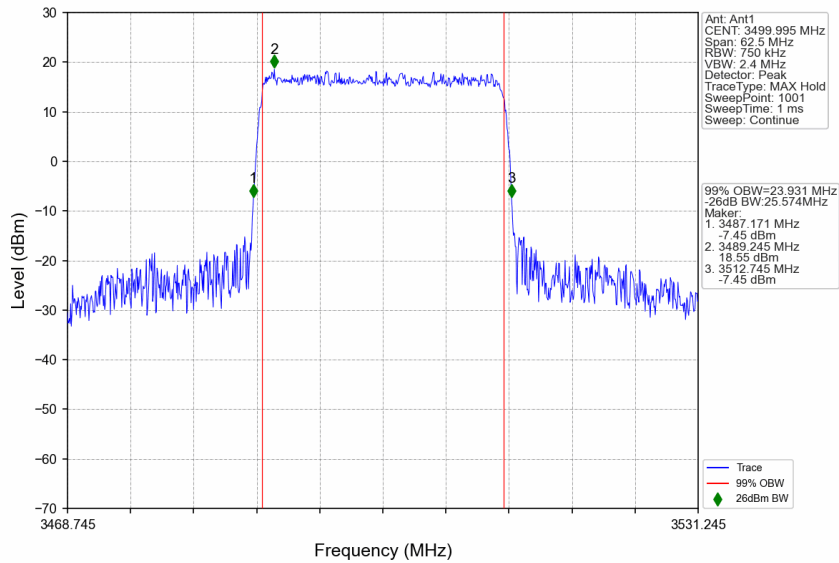


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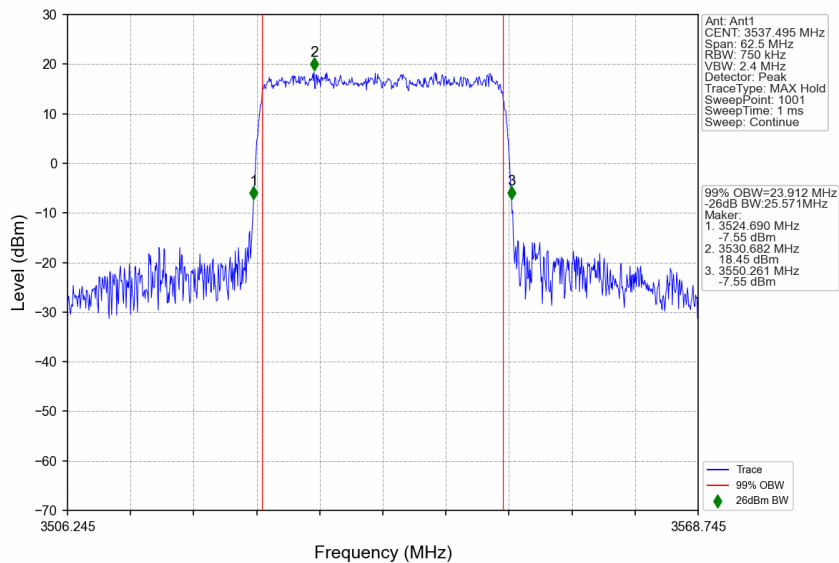
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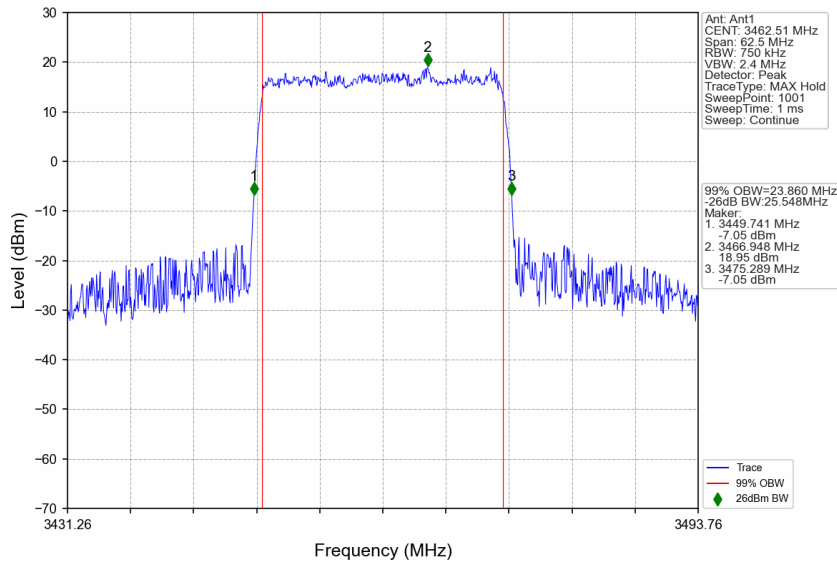


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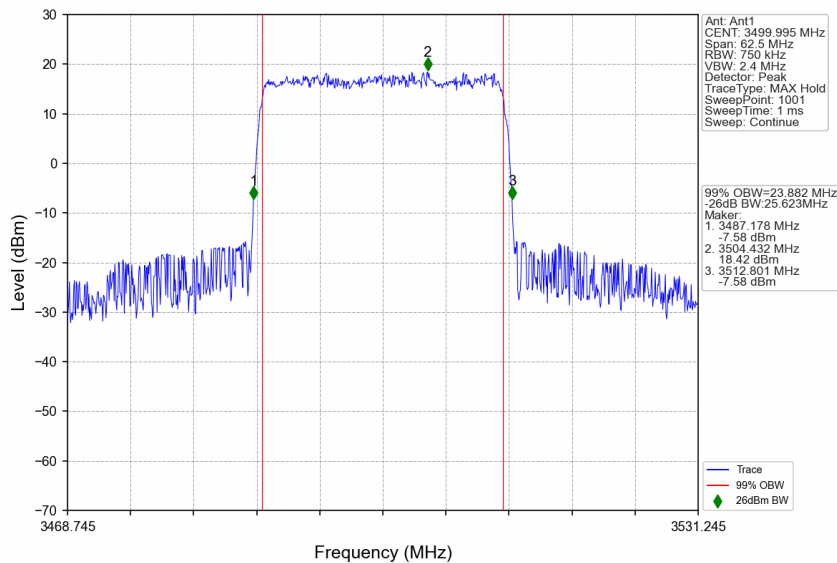
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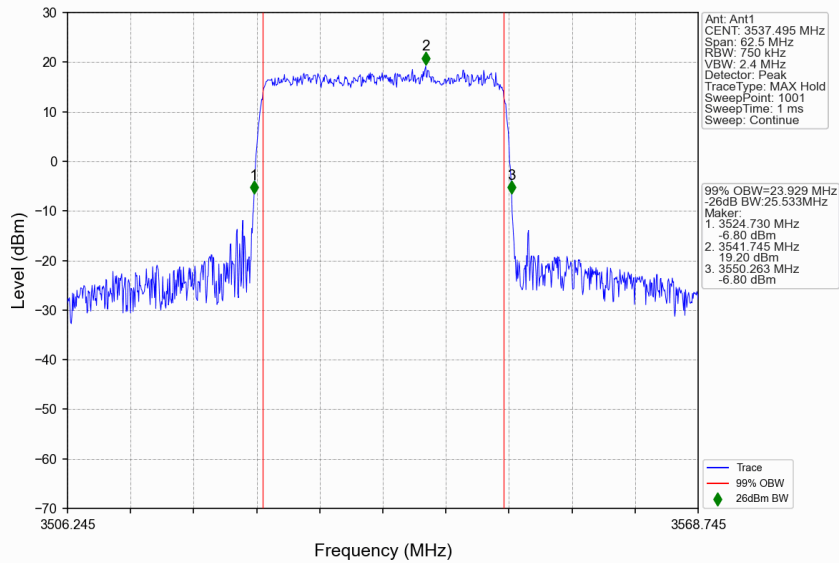


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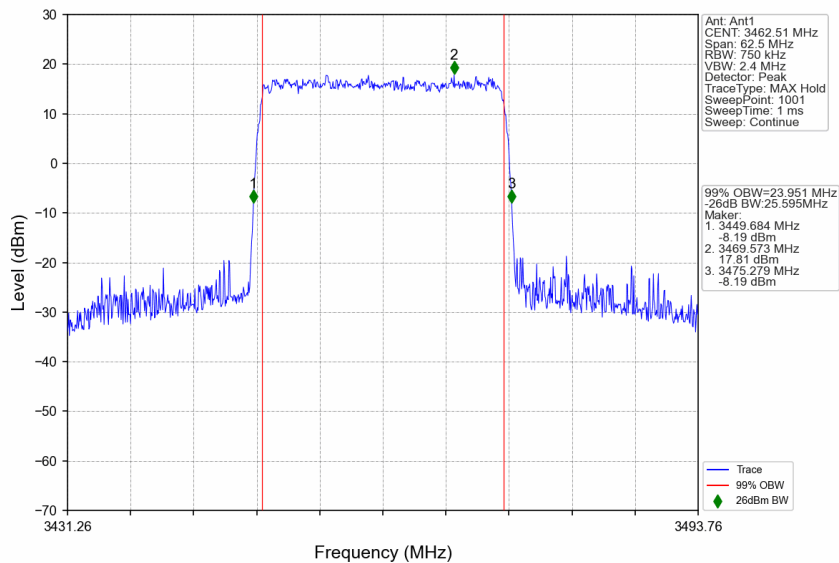
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n77d_15kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_3462.51MHz_Outer_Full

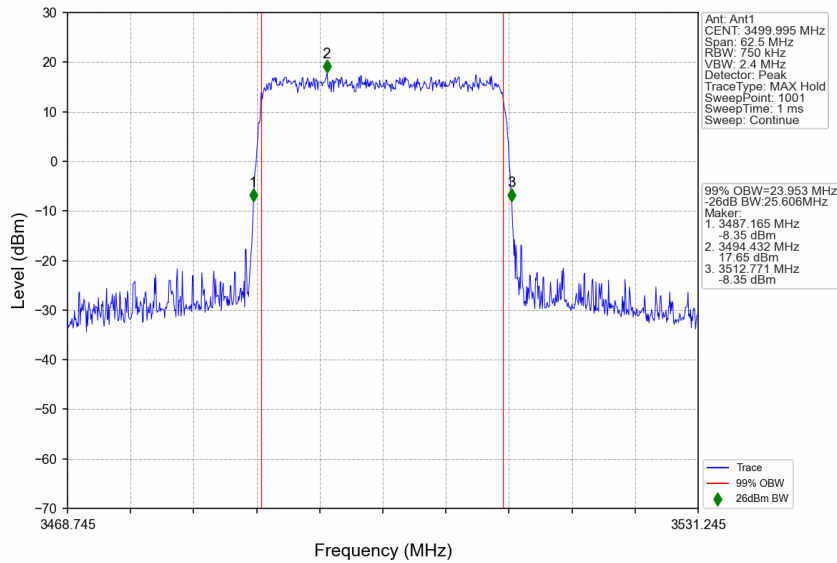


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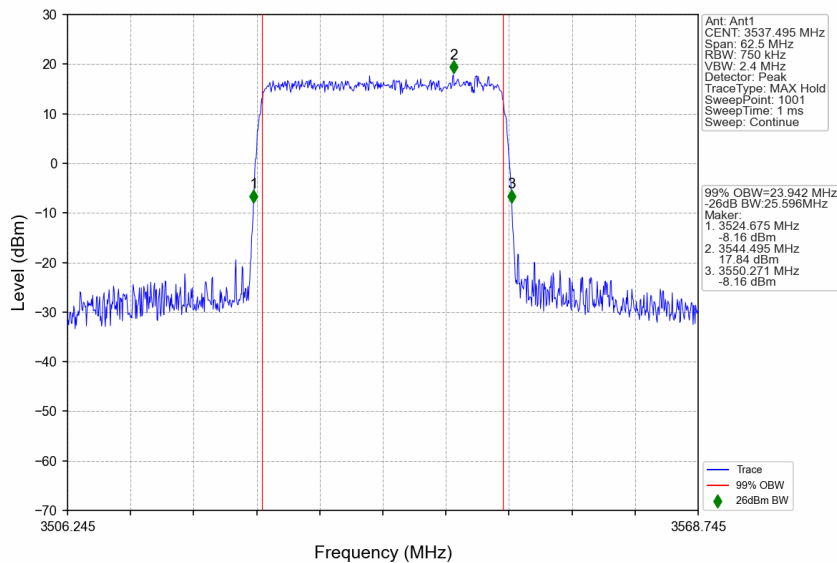
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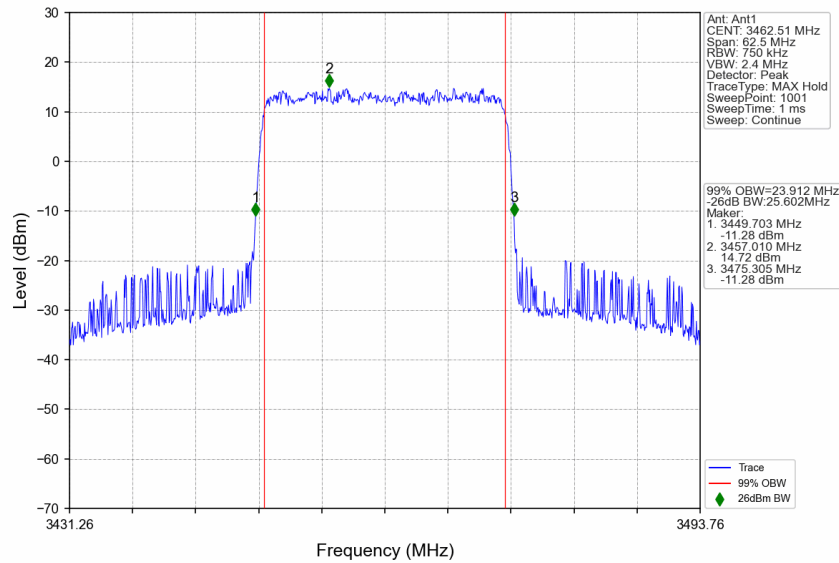


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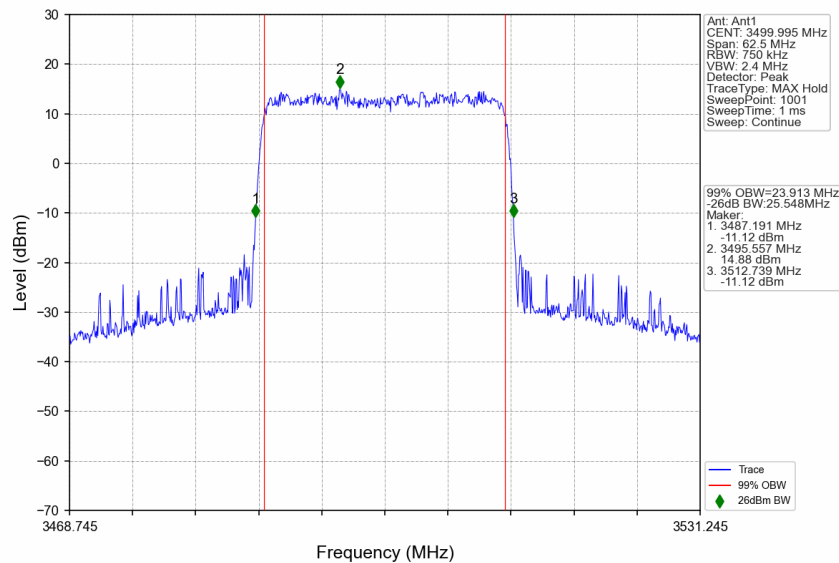
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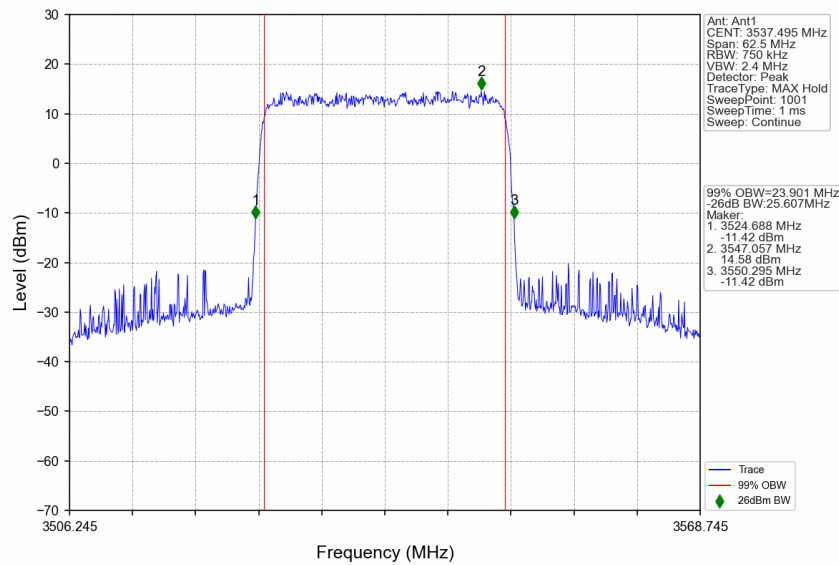


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 Wireless Laboratory

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4.5 15k_SISO_30MHz_NTNV

4.5.1 Test Result

5G NR n77d SCS=15kHz SISO 30MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3465	Outer_Full	28.77	30.75	/	Pass
	3499.995	Outer_Full	28.75	30.86	/	Pass
	3534.99	Outer_Full	28.86	30.88	/	Pass
DFT-s-OFDM QPSK	3465	Outer_Full	28.84	30.77	/	Pass
	3499.995	Outer_Full	28.83	30.80	/	Pass
	3534.99	Outer_Full	28.84	30.77	/	Pass
DFT-s-OFDM 16 QAM	3465	Outer_Full	28.74	30.77	/	Pass
	3499.995	Outer_Full	28.82	30.80	/	Pass
	3534.99	Outer_Full	28.81	30.80	/	Pass
DFT-s-OFDM 64 QAM	3465	Outer_Full	28.82	30.82	/	Pass
	3499.995	Outer_Full	28.84	30.82	/	Pass
	3534.99	Outer_Full	28.76	30.80	/	Pass
DFT-s-OFDM 256 QAM	3465	Outer_Full	28.74	30.82	/	Pass
	3499.995	Outer_Full	28.76	30.75	/	Pass
	3534.99	Outer_Full	28.76	30.77	/	Pass
CP-OFDM QPSK	3465	Outer_Full	28.88	30.82	/	Pass
	3499.995	Outer_Full	28.84	30.78	/	Pass
	3534.99	Outer_Full	28.91	30.82	/	Pass
CP-OFDM 16 QAM	3465	Outer_Full	28.72	30.77	/	Pass
	3499.995	Outer_Full	28.73	30.77	/	Pass
	3534.99	Outer_Full	28.73	30.77	/	Pass
CP-OFDM 64 QAM	3465	Outer_Full	28.72	30.77	/	Pass
	3499.995	Outer_Full	28.75	30.81	/	Pass
	3534.99	Outer_Full	28.81	30.81	/	Pass
CP-OFDM 256 QAM	3465	Outer_Full	28.74	30.77	/	Pass
	3499.995	Outer_Full	28.80	30.81	/	Pass
	3534.99	Outer_Full	28.79	30.76	/	Pass

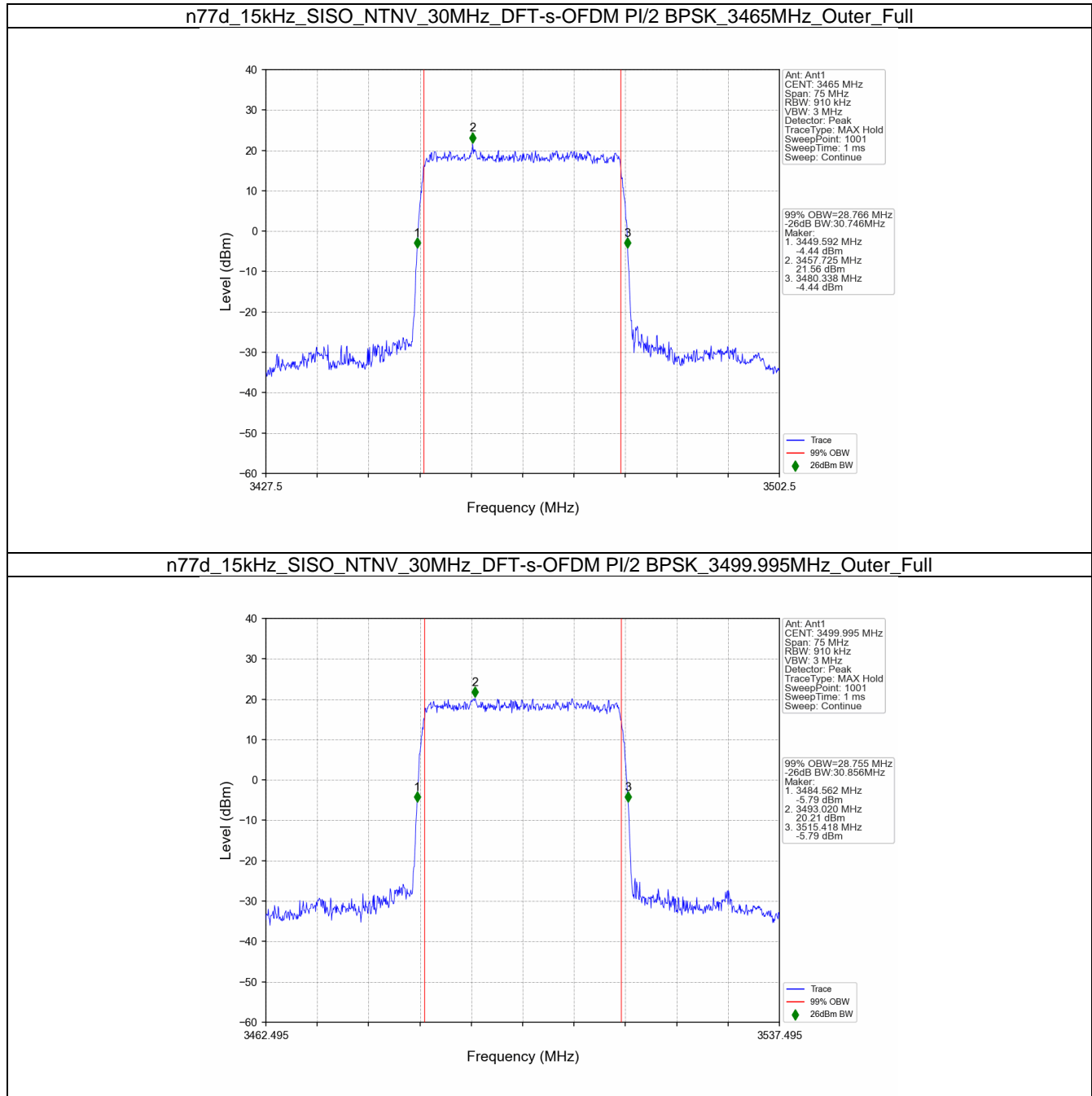


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4.5.2 Test Graph

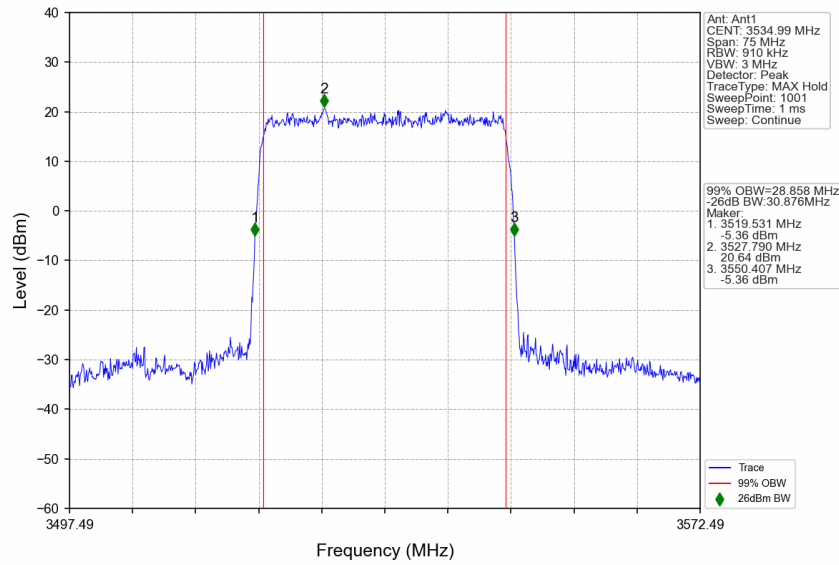


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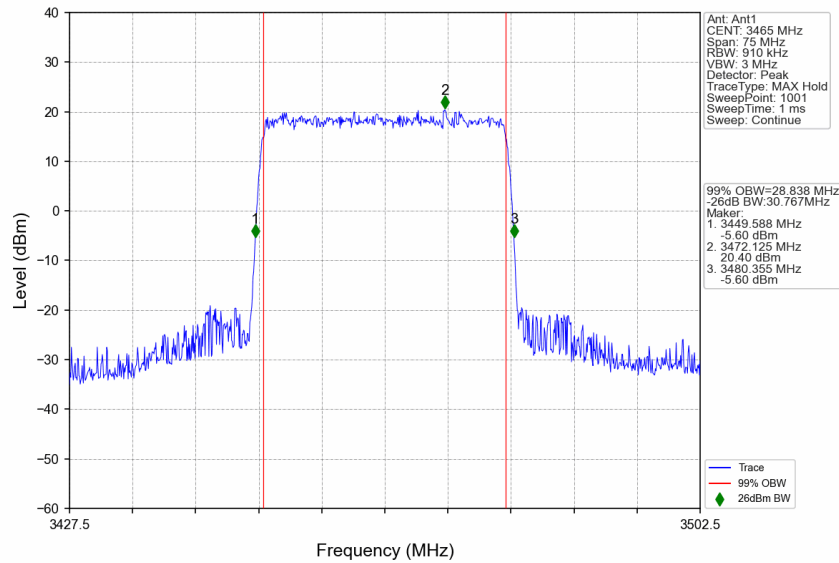
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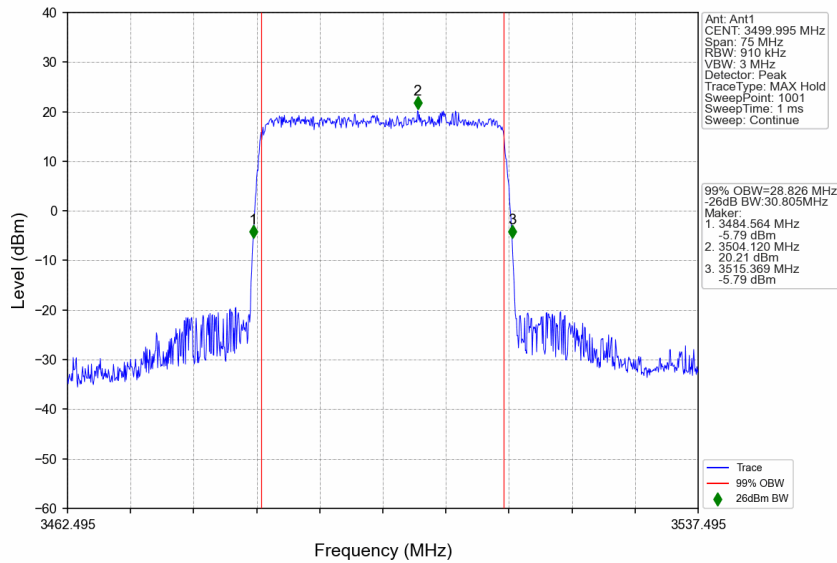


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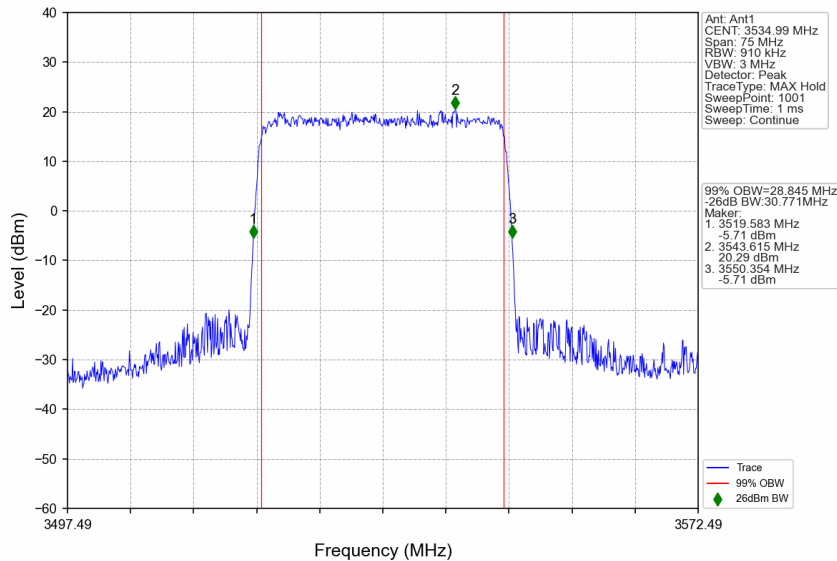
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n77d_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3499.995MHz_Outer_Full



n77d_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3534.99MHz_Outer_Full

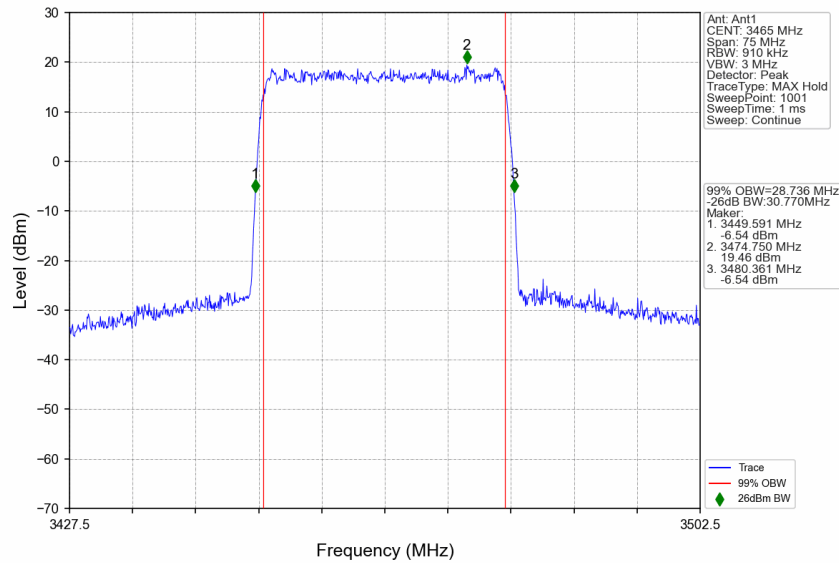


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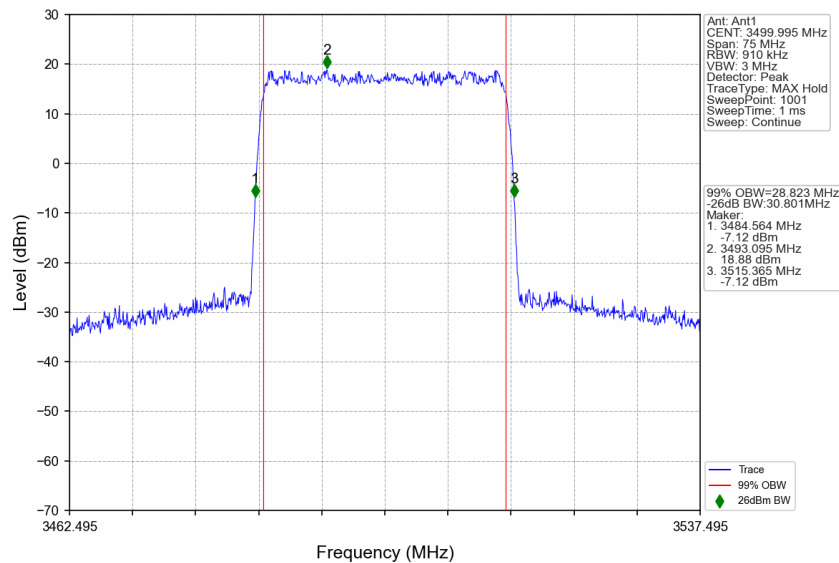
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n77d_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_3465MHz_Outer_Full



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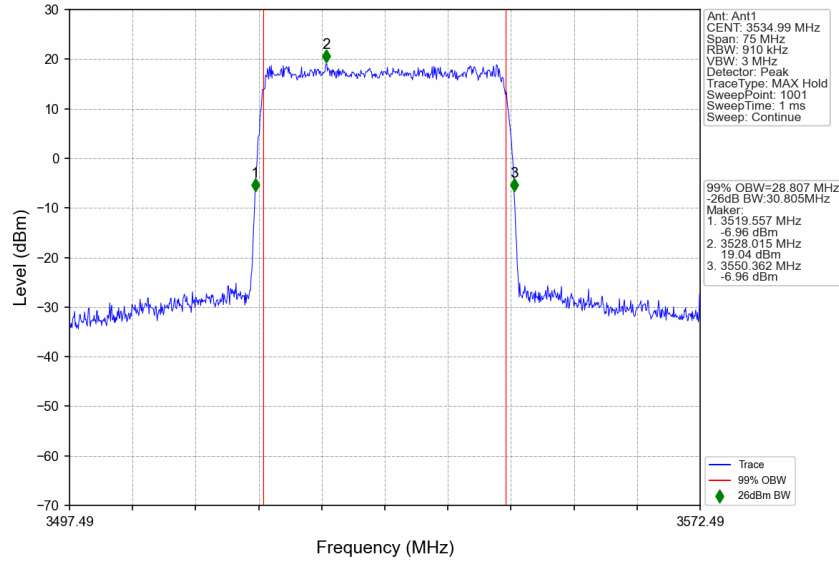


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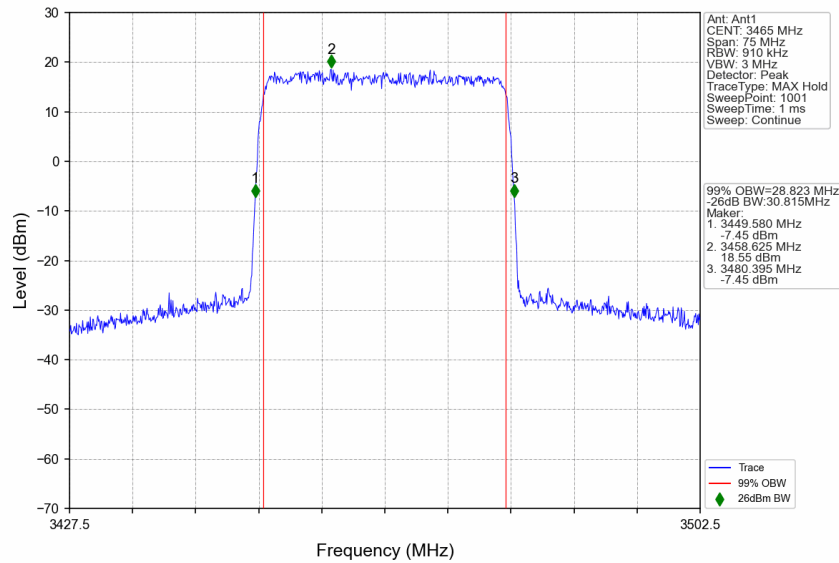
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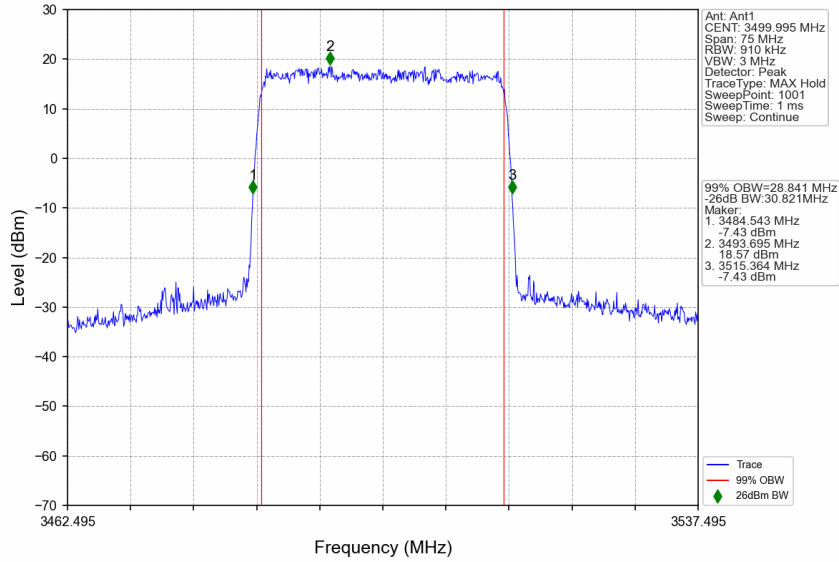
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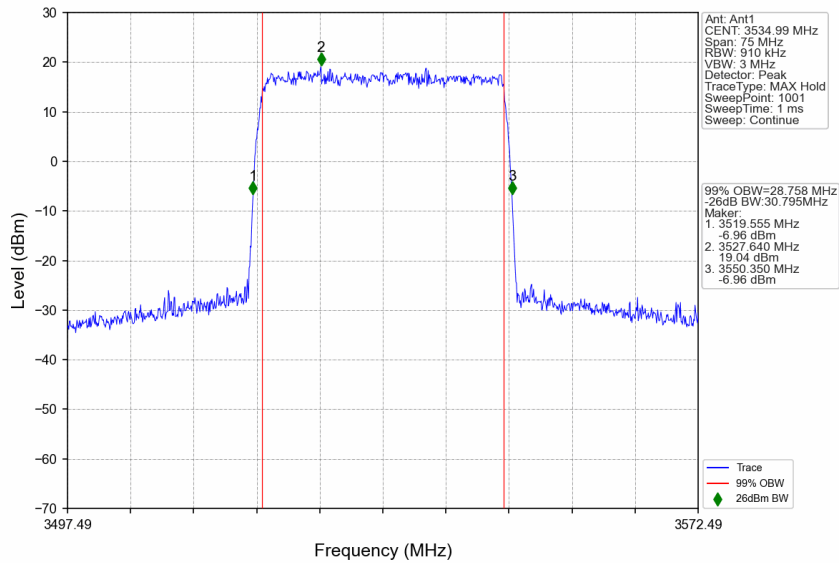
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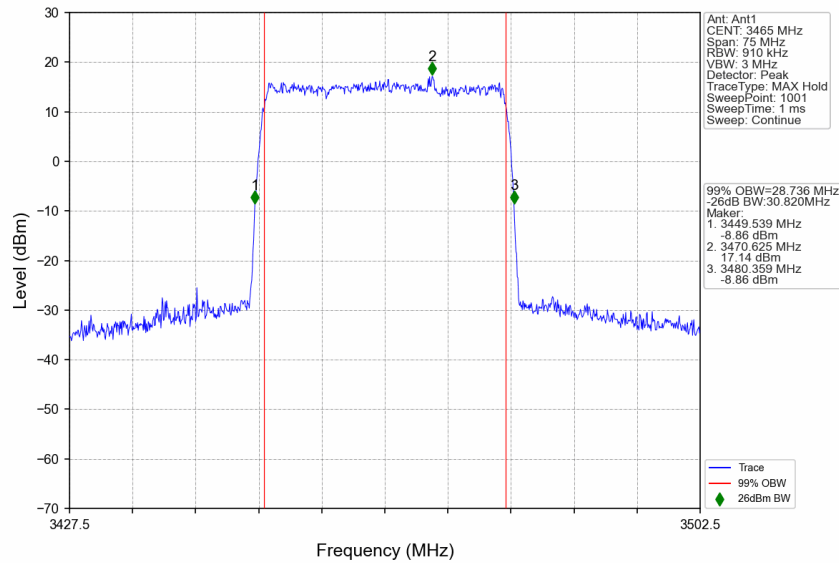


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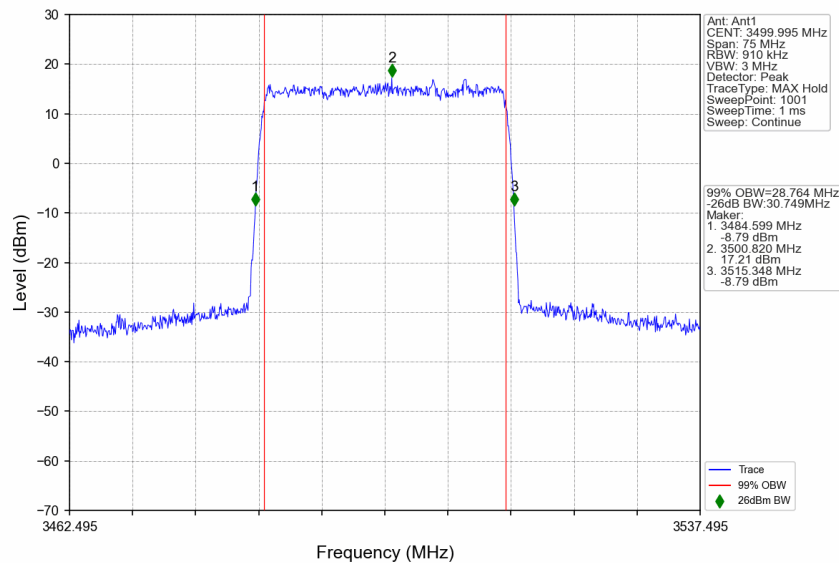
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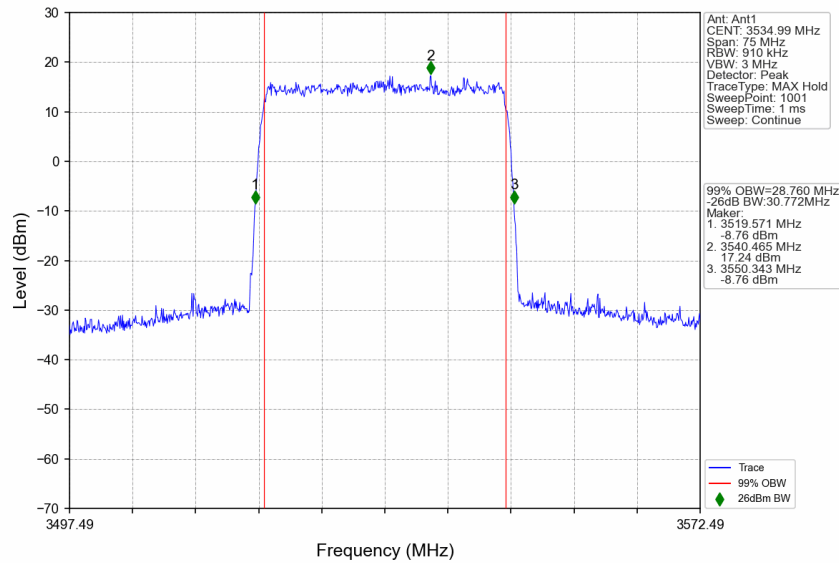


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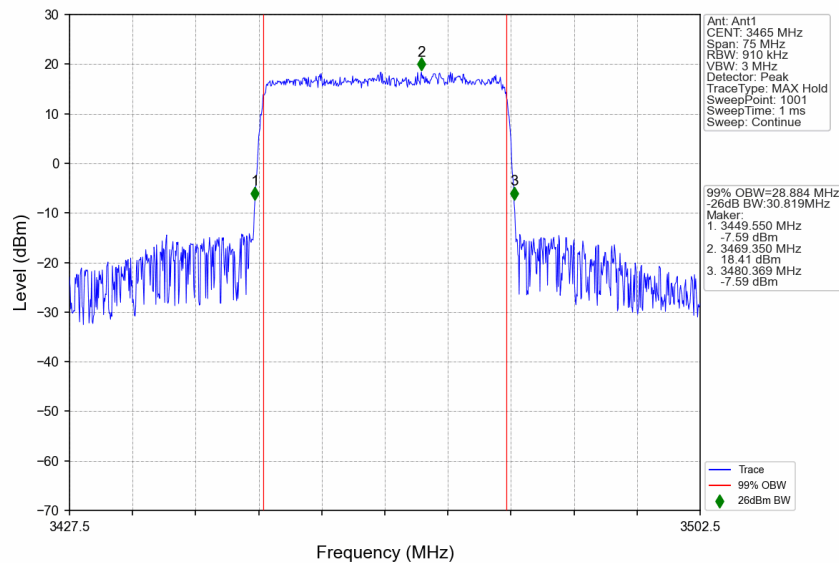
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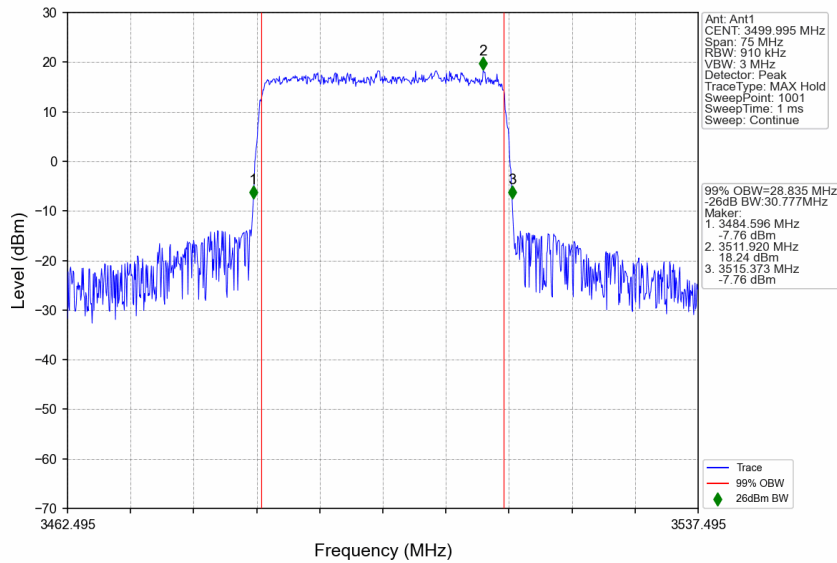


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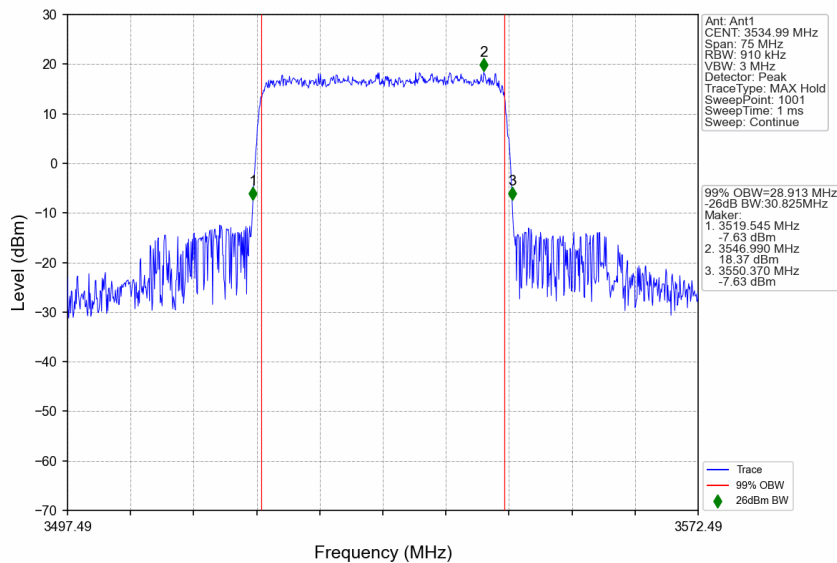
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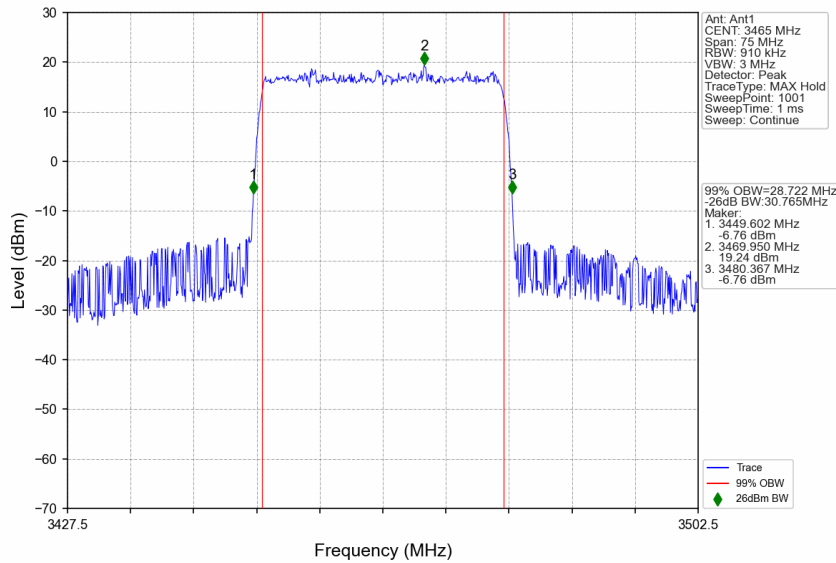


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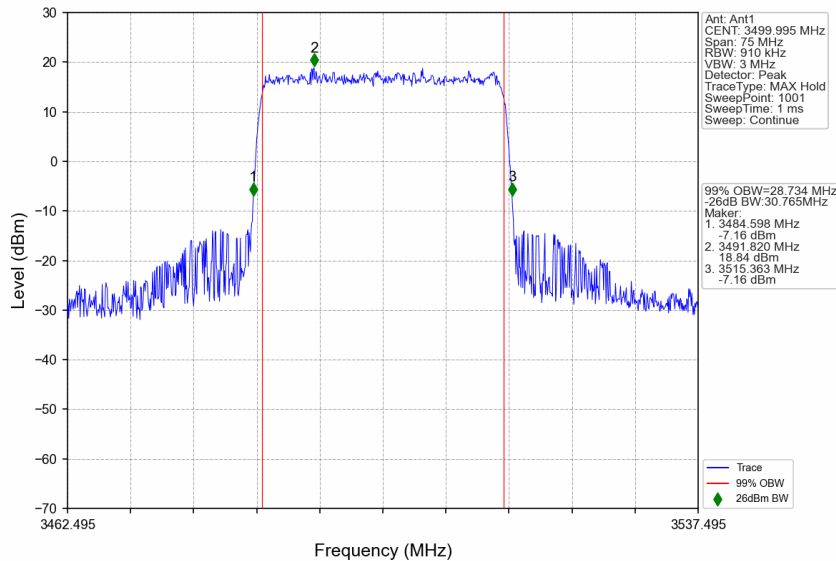
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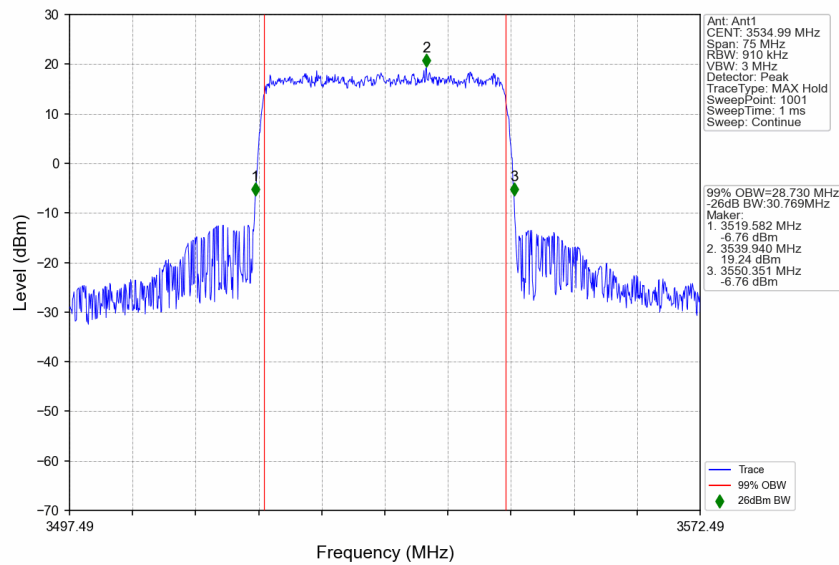


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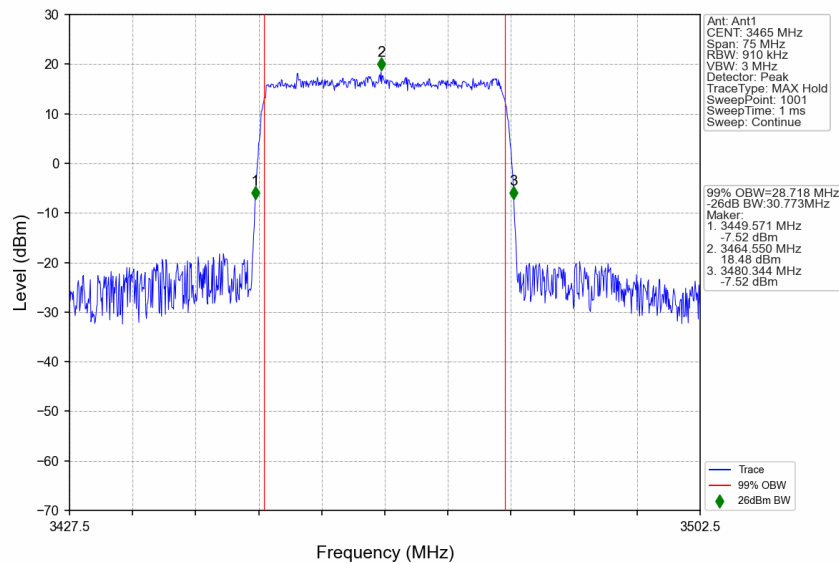
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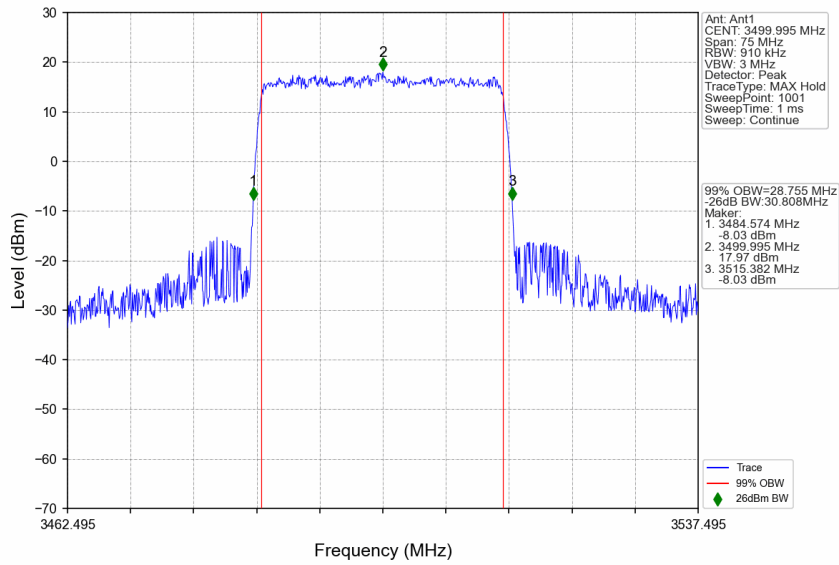


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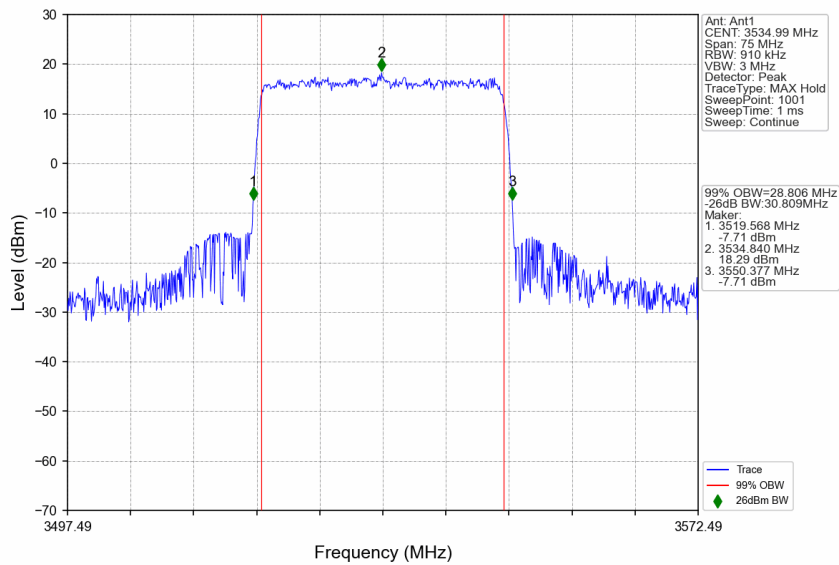
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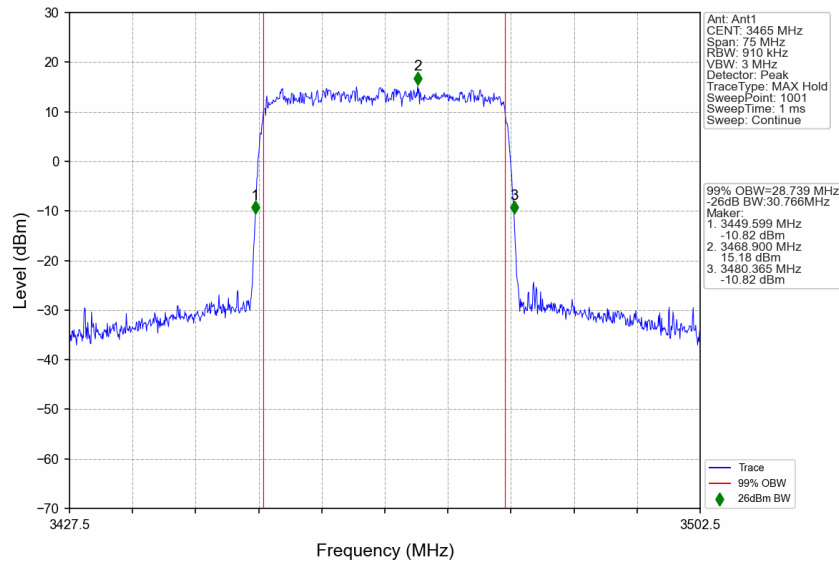


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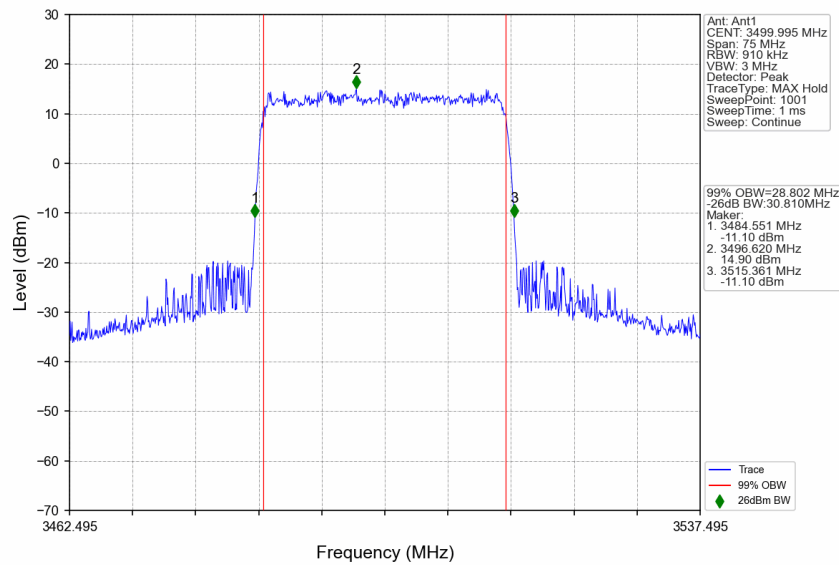
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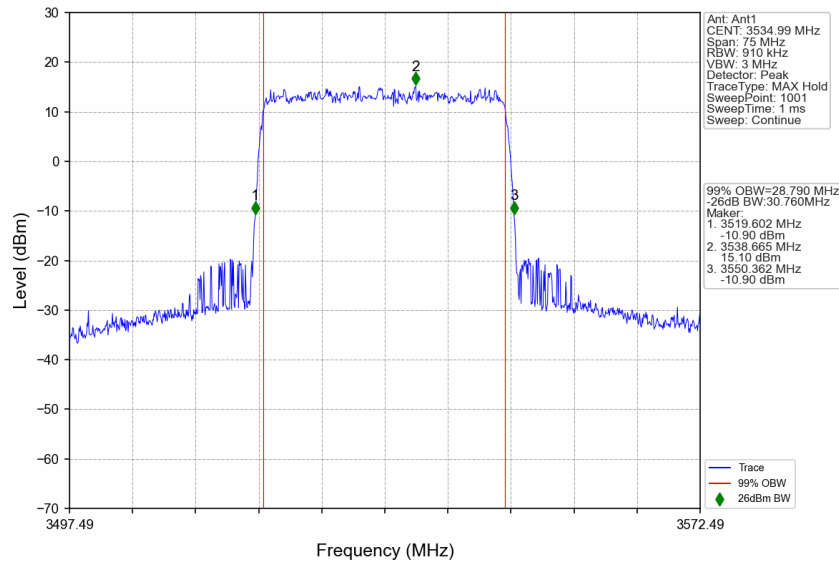


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n77d_15kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3534.99MHz_Outer_Full



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4.6 15k_SISO_40MHz_NTNV

4.6.1 Test Result

5G NR n77d SCS=15kHz SISO 40MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3470.01	Outer_Full	38.85	41.48	/	Pass
	3499.995	Outer_Full	38.91	41.46	/	Pass
	3529.995	Outer_Full	38.94	41.52	/	Pass
DFT-s-OFDM QPSK	3470.01	Outer_Full	38.97	41.48	/	Pass
	3499.995	Outer_Full	38.96	41.52	/	Pass
	3529.995	Outer_Full	38.95	41.44	/	Pass
DFT-s-OFDM 16 QAM	3470.01	Outer_Full	38.82	41.45	/	Pass
	3499.995	Outer_Full	38.84	41.53	/	Pass
	3529.995	Outer_Full	38.88	41.48	/	Pass
DFT-s-OFDM 64 QAM	3470.01	Outer_Full	38.83	41.52	/	Pass
	3499.995	Outer_Full	38.83	41.52	/	Pass
	3529.995	Outer_Full	38.95	41.53	/	Pass
DFT-s-OFDM 256 QAM	3470.01	Outer_Full	38.79	41.42	/	Pass
	3499.995	Outer_Full	38.84	41.44	/	Pass
	3529.995	Outer_Full	38.88	41.45	/	Pass
CP-OFDM QPSK	3470.01	Outer_Full	38.82	41.47	/	Pass
	3499.995	Outer_Full	38.83	41.52	/	Pass
	3529.995	Outer_Full	38.83	41.49	/	Pass
CP-OFDM 16 QAM	3470.01	Outer_Full	38.88	41.42	/	Pass
	3499.995	Outer_Full	38.88	41.43	/	Pass
	3529.995	Outer_Full	38.79	41.48	/	Pass
CP-OFDM 64 QAM	3470.01	Outer_Full	38.81	41.53	/	Pass
	3499.995	Outer_Full	38.81	41.46	/	Pass
	3529.995	Outer_Full	38.85	41.48	/	Pass
CP-OFDM 256 QAM	3470.01	Outer_Full	38.84	41.53	/	Pass
	3499.995	Outer_Full	38.91	41.56	/	Pass
	3529.995	Outer_Full	38.87	41.53	/	Pass

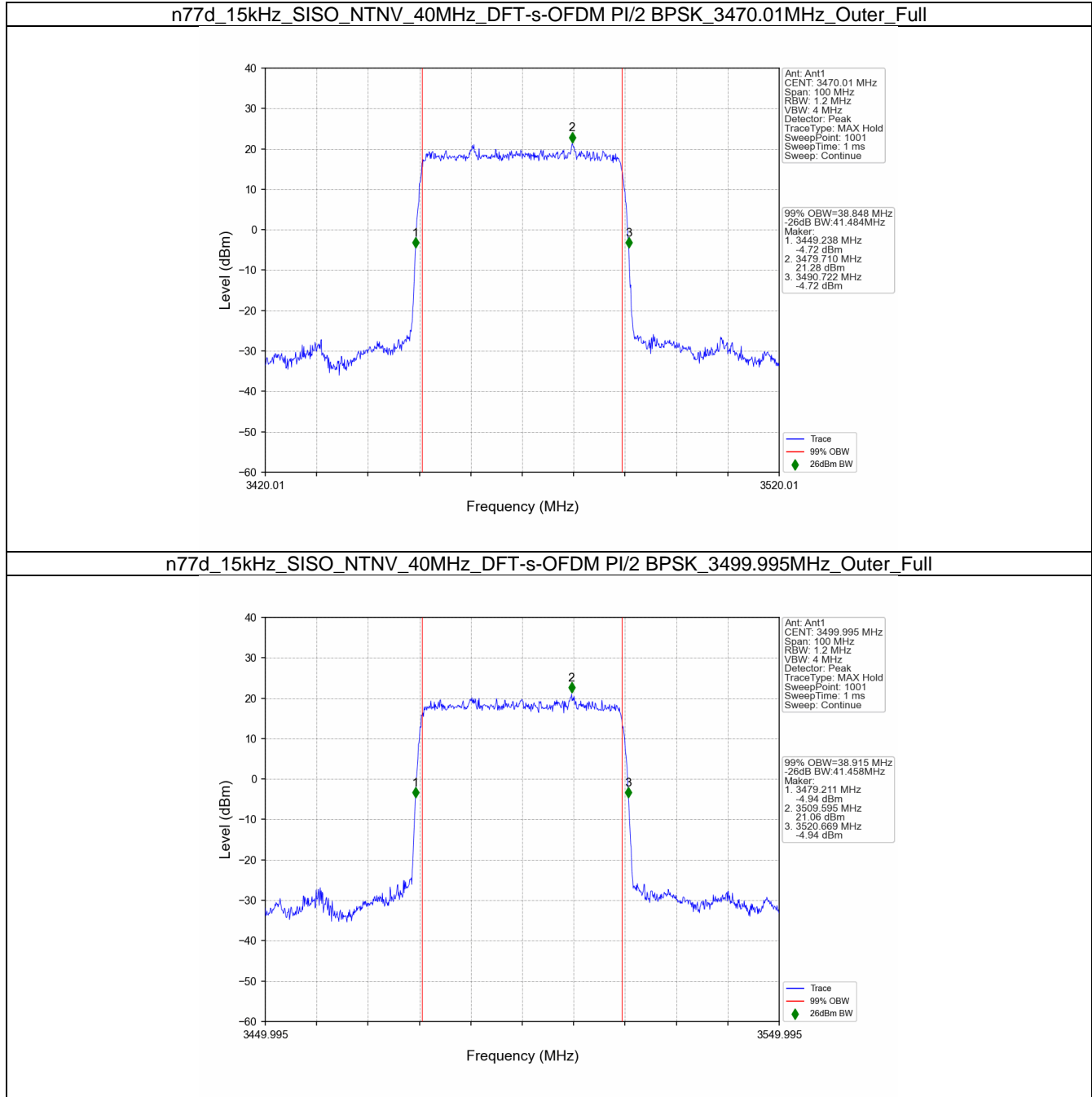


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4.6.2 Test Graph

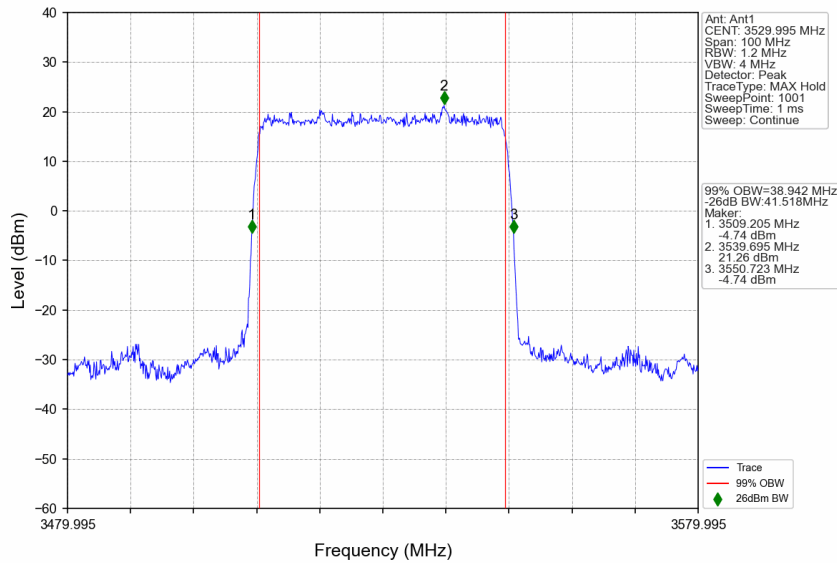


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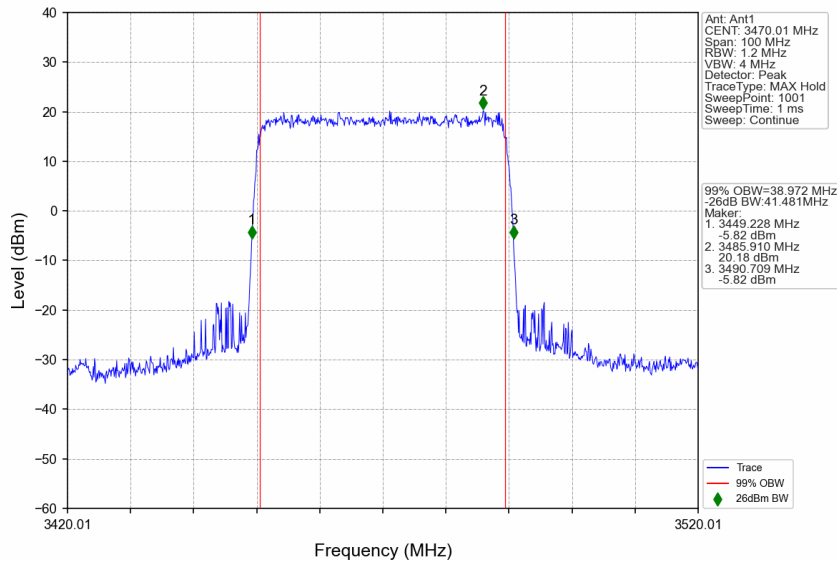
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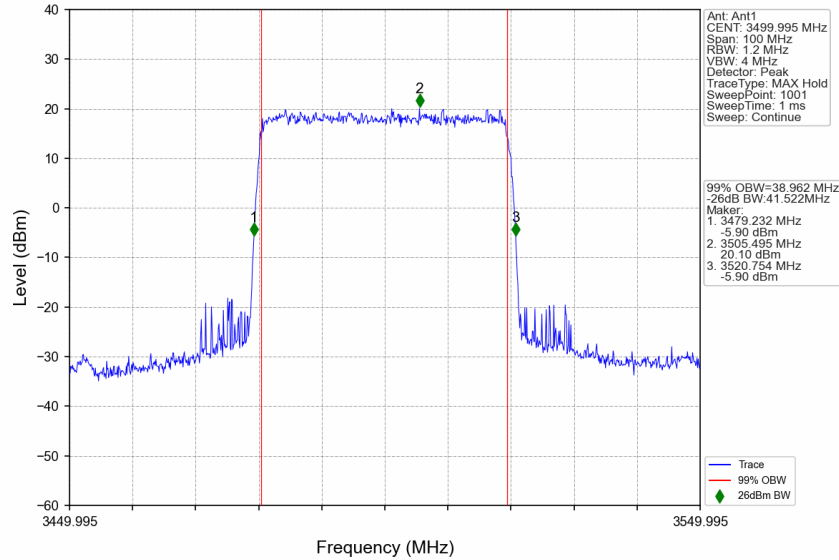


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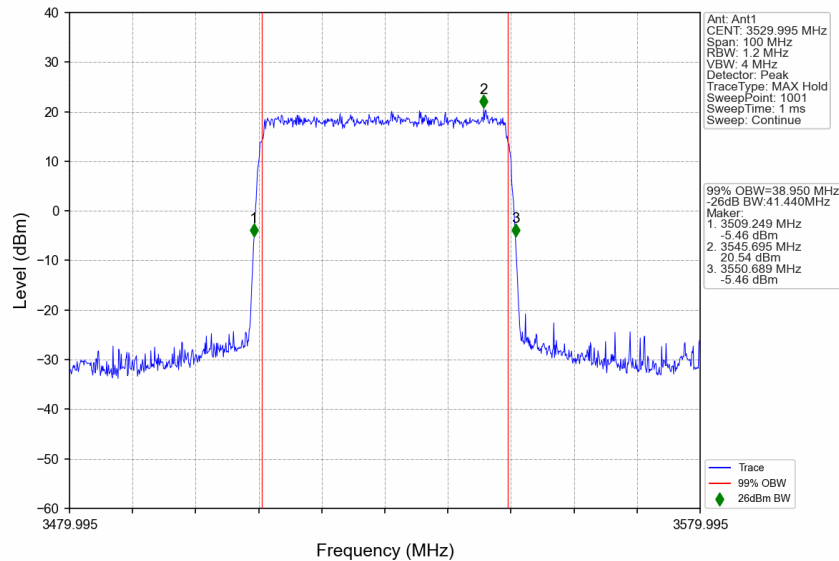
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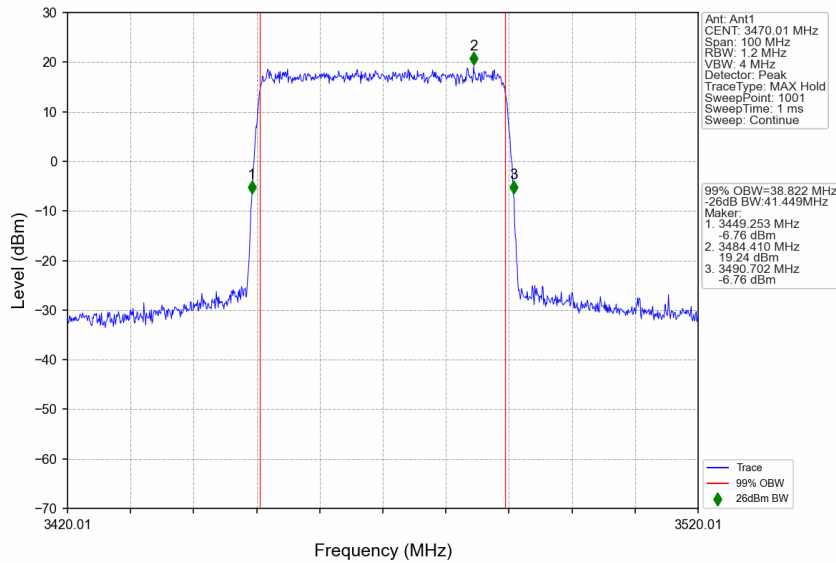


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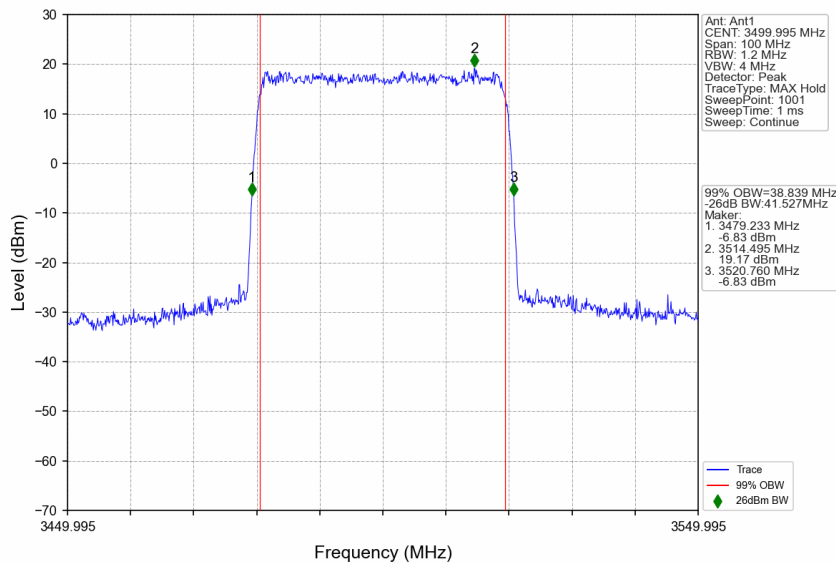
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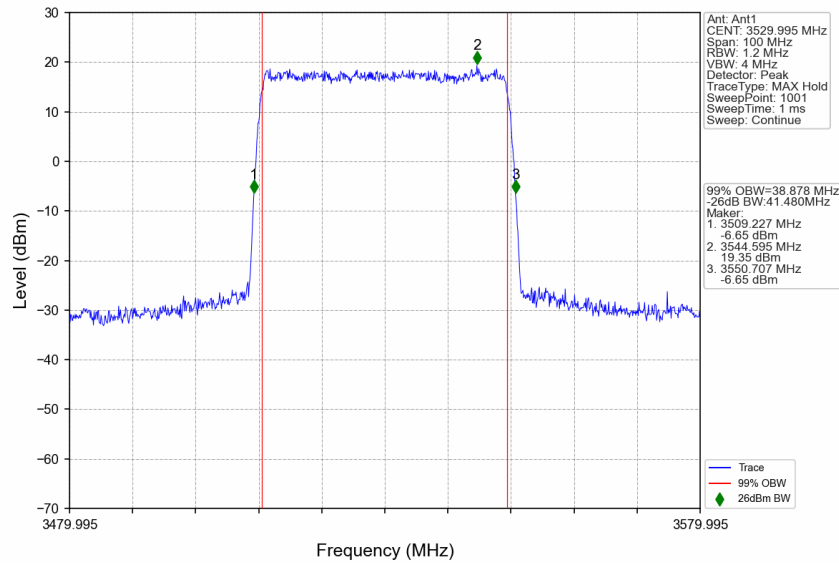


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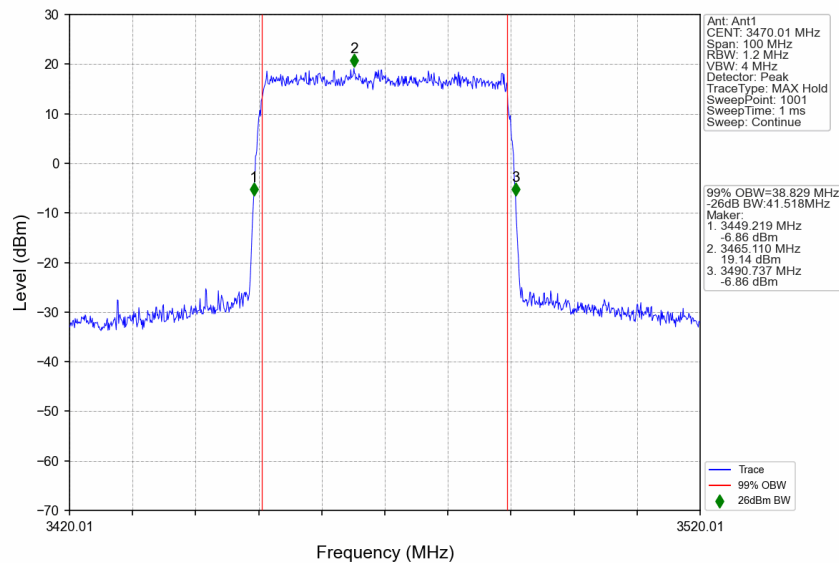
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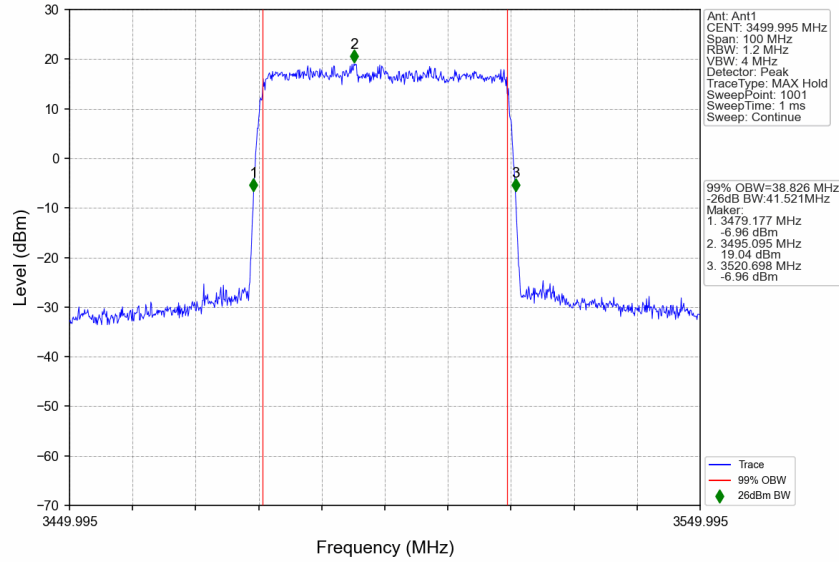


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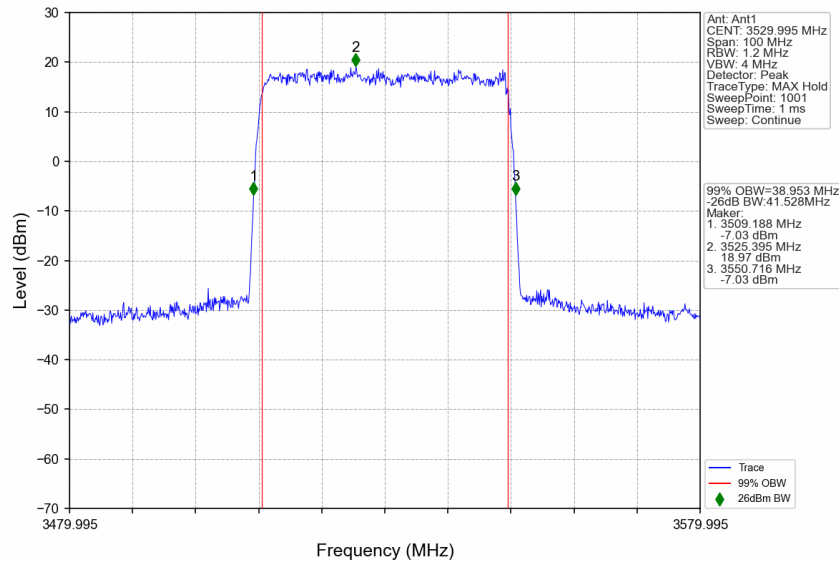
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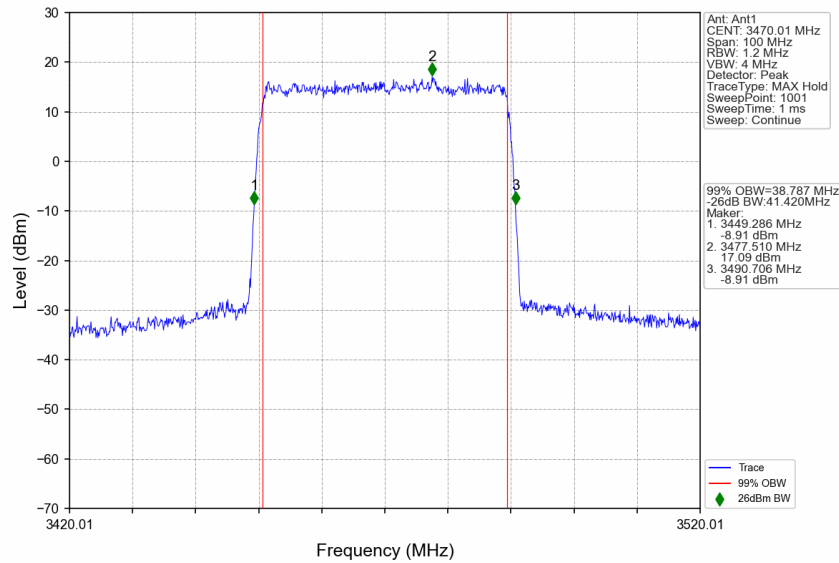


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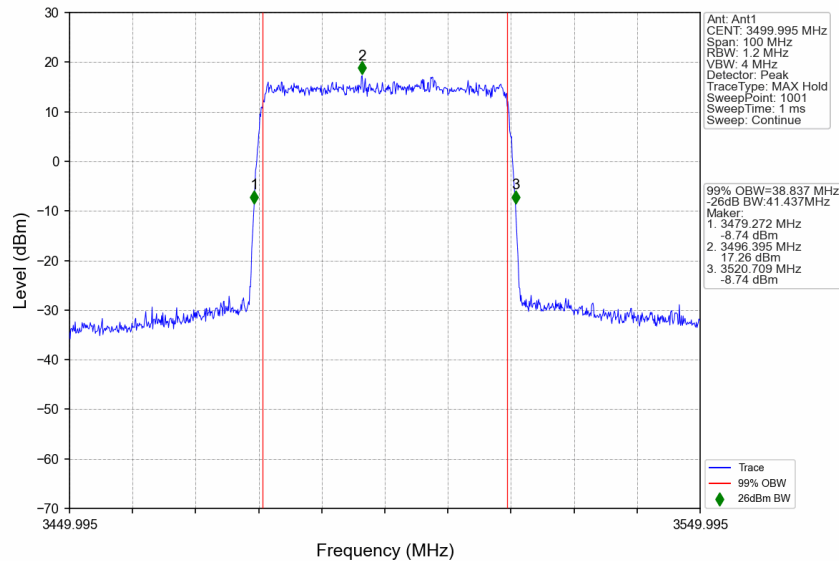
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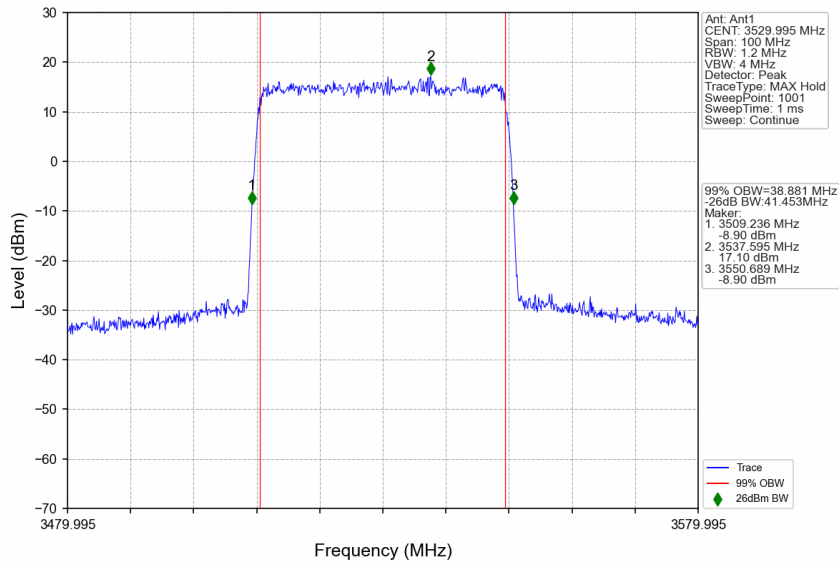


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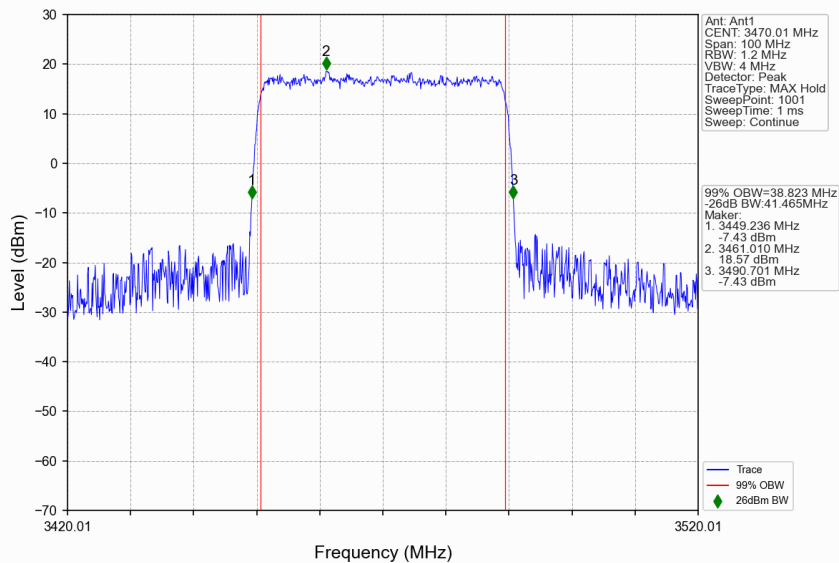
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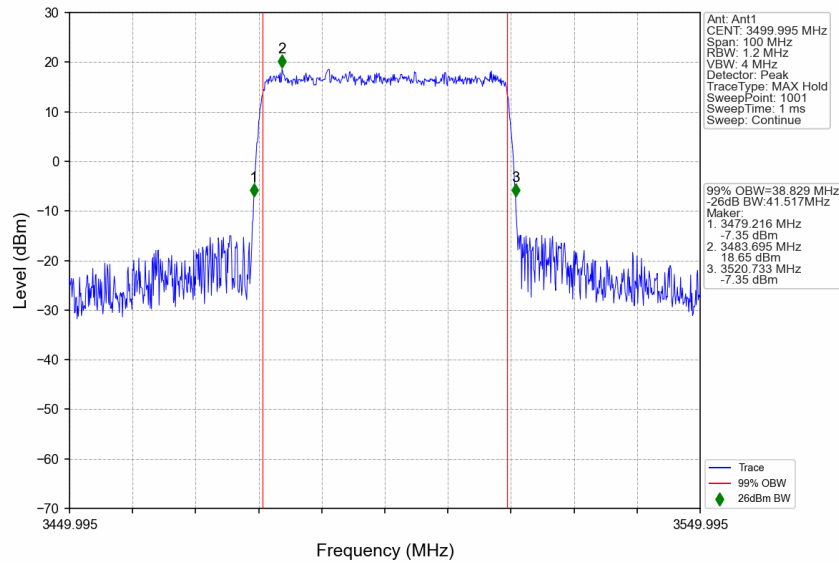


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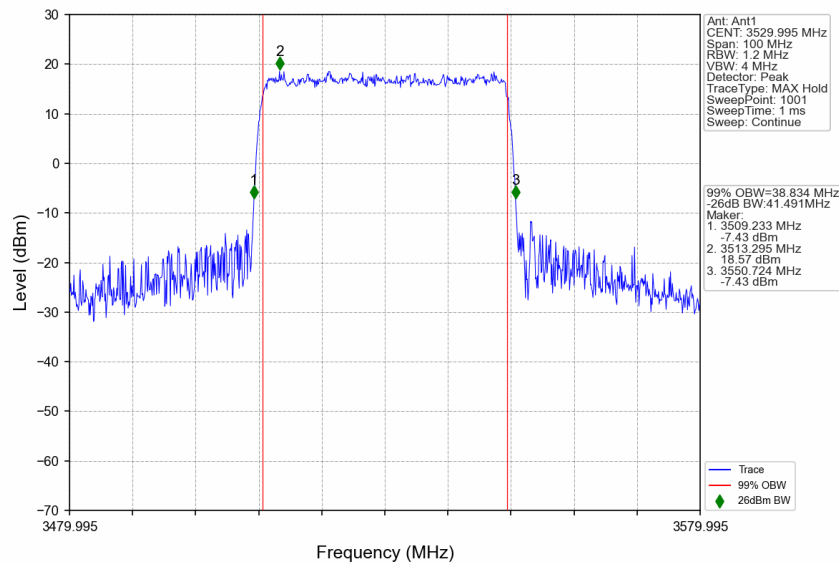
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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com