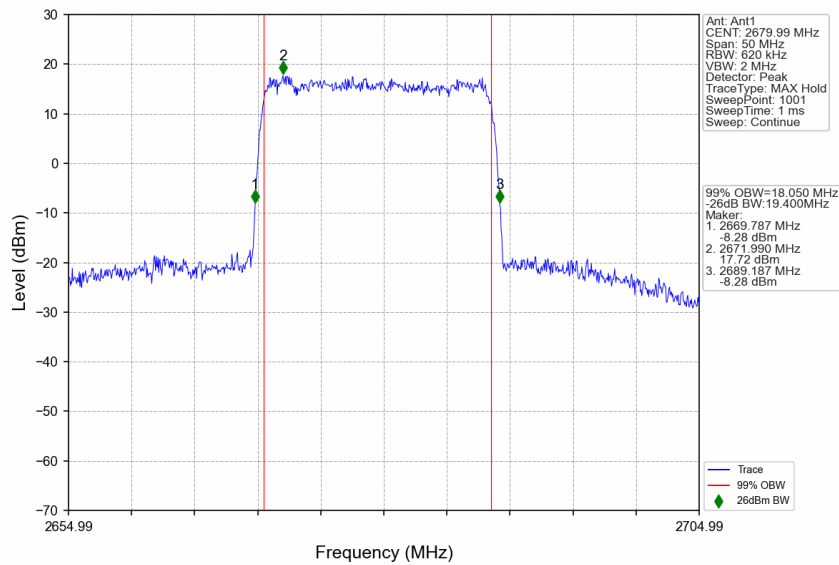
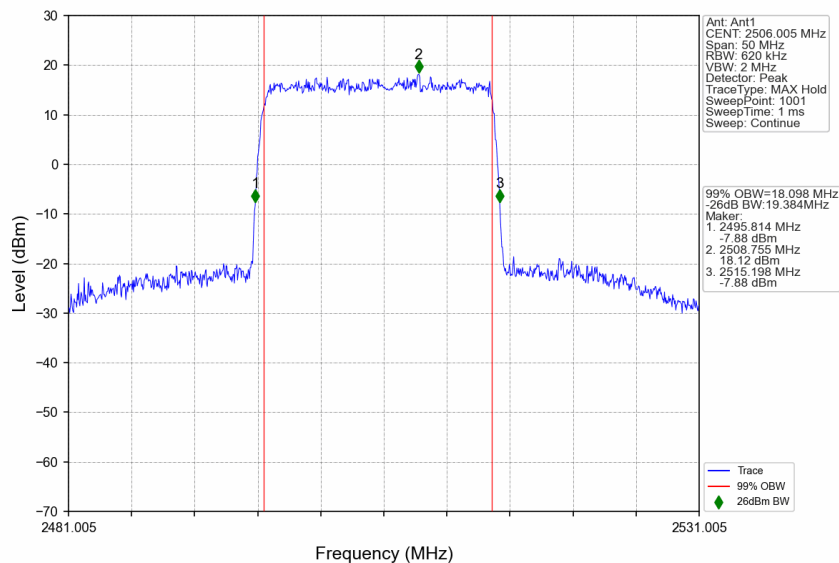


n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_2679.99MHz_Outer_Full



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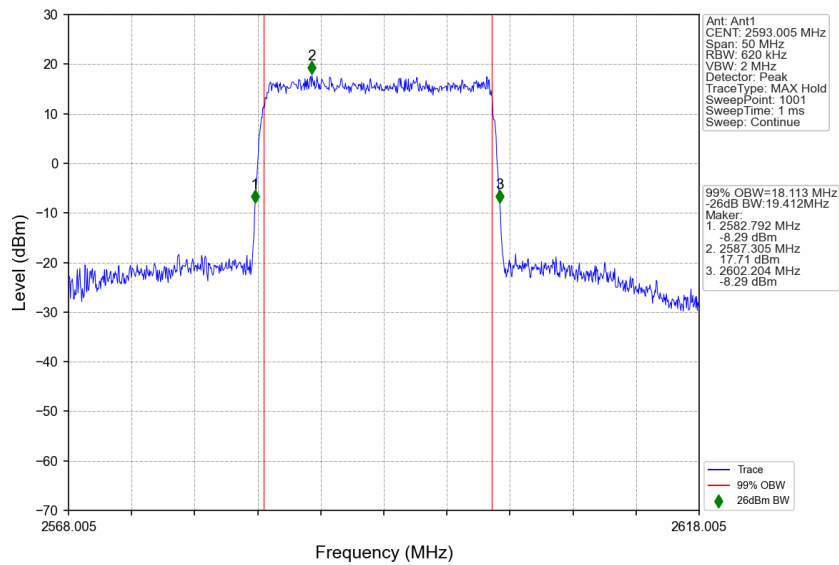
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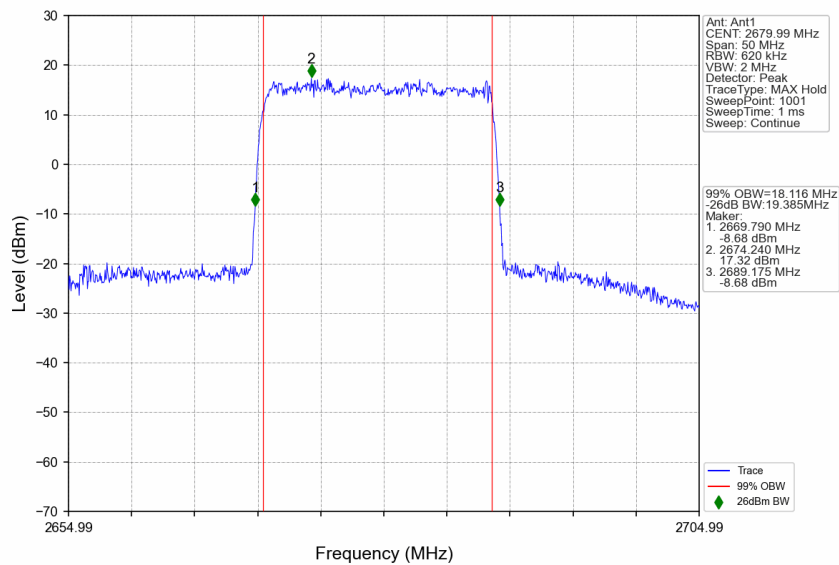
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n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2593.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2679.99MHz_Outer_Full



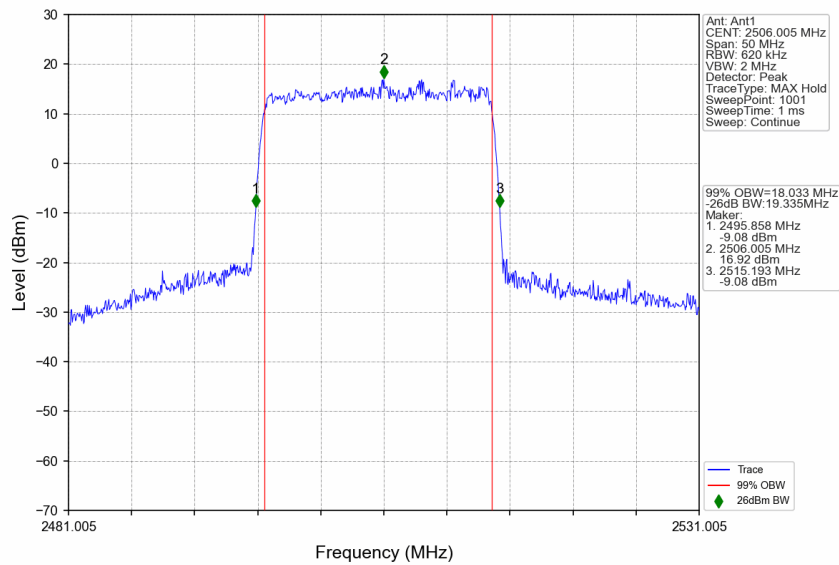
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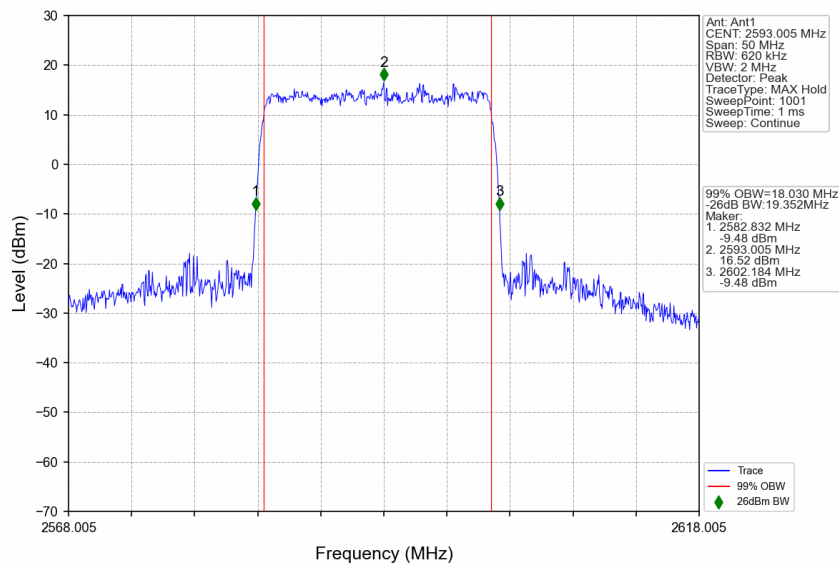
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n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2506.005MHz_Outer_Full



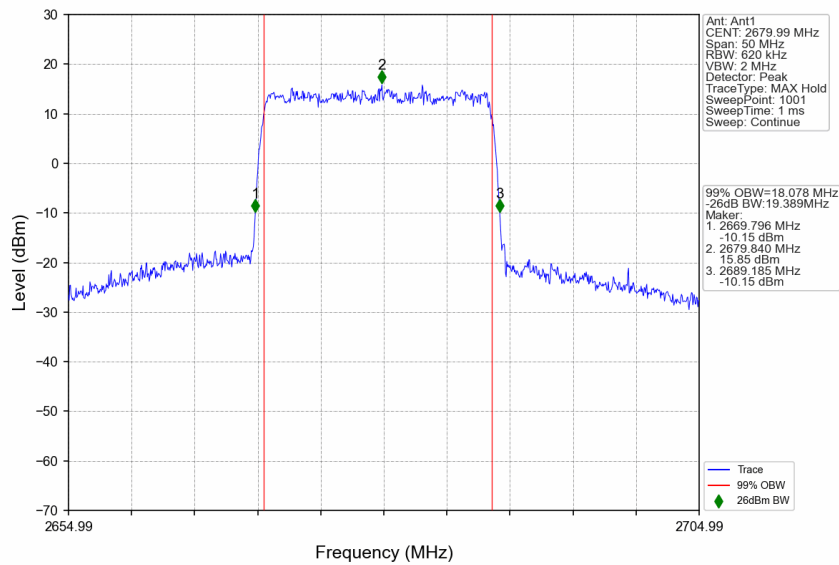
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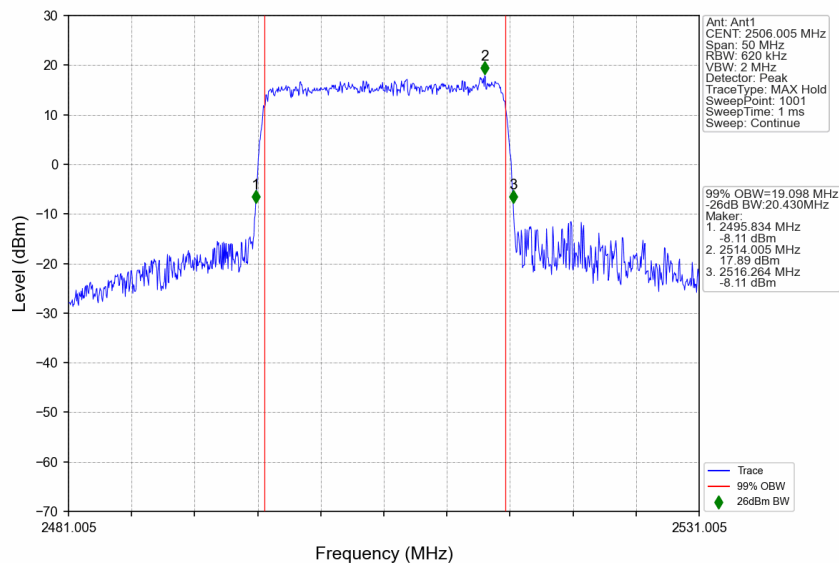
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n41_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2506.005MHz_Outer_Full

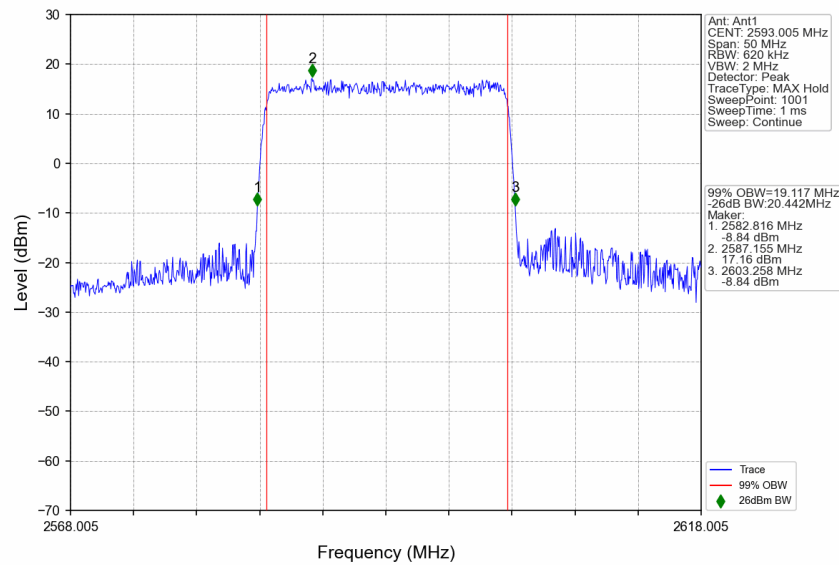


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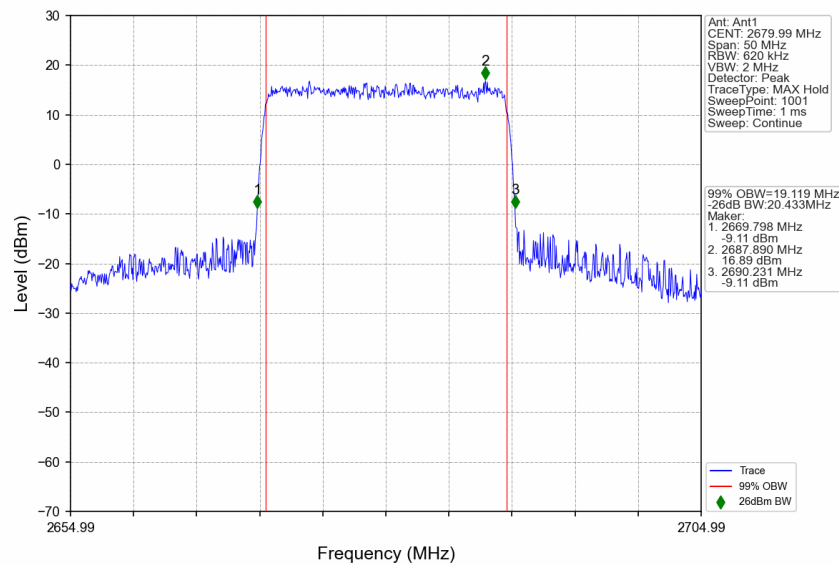
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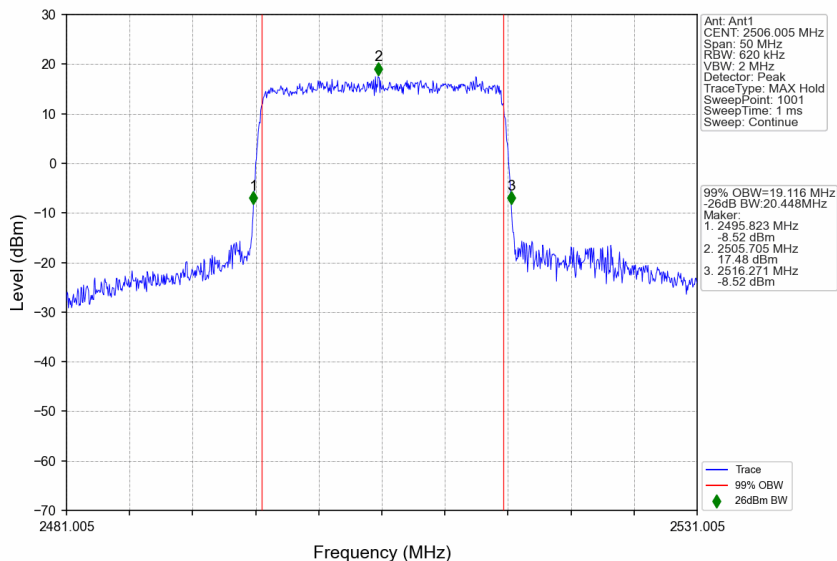


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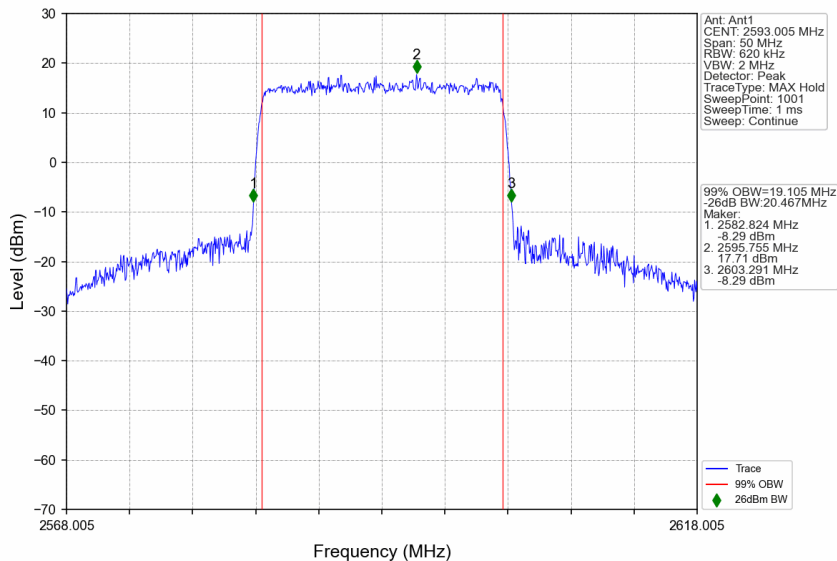
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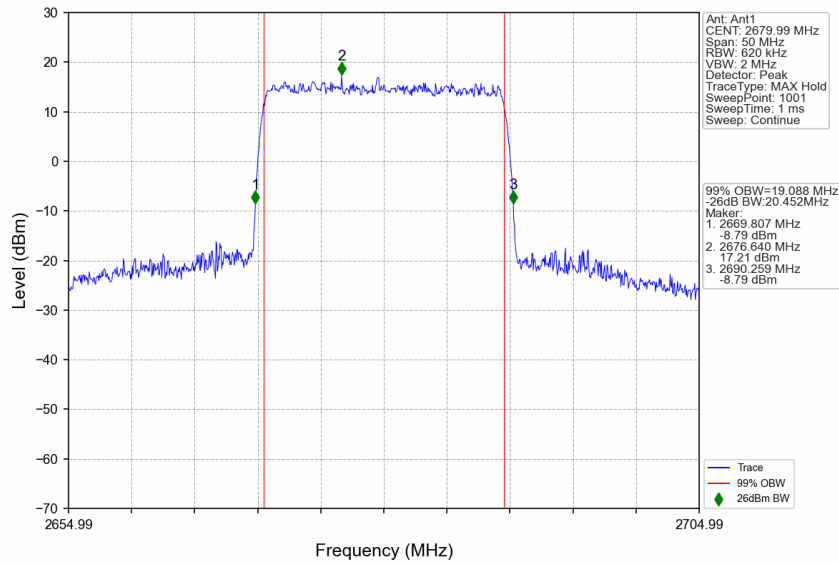


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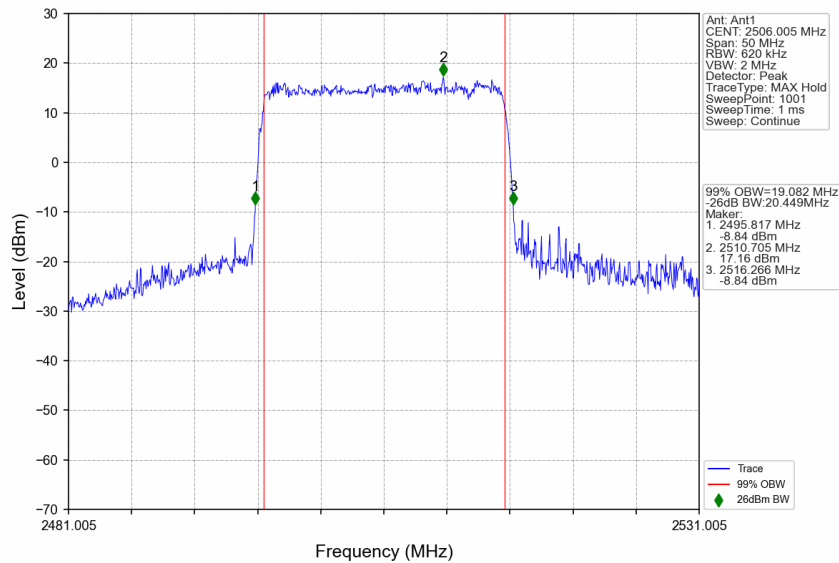
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n41_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2506.005MHz_Outer_Full

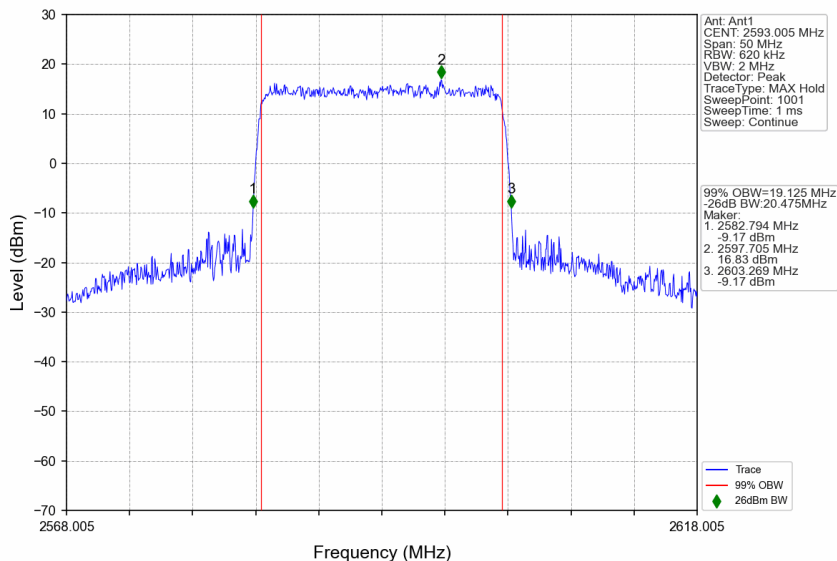


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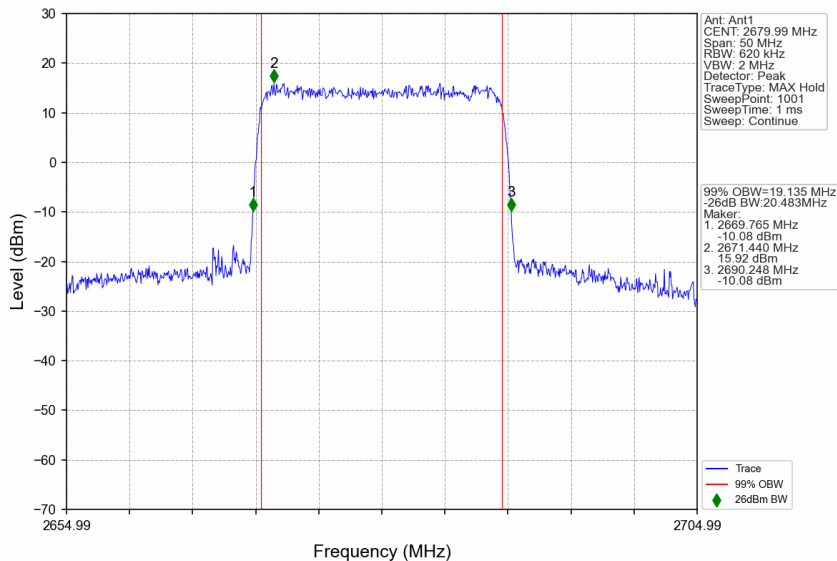
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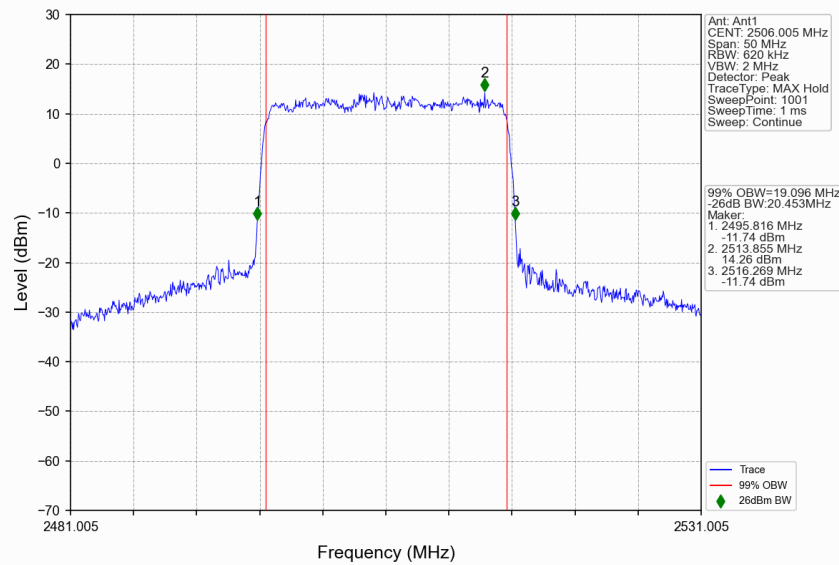


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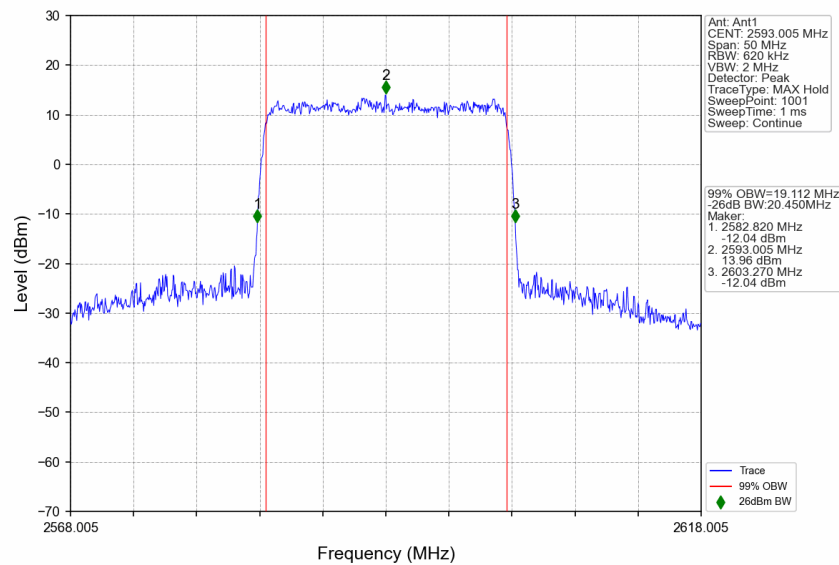
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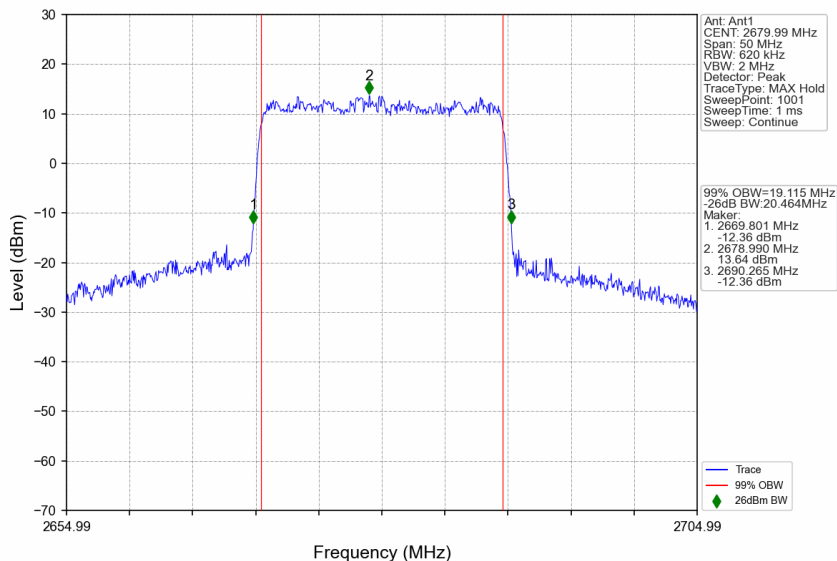


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4.4 15k_SISO_25MHz_NTNV

4.4.1 Test Result

5G NR n41 SCS=15kHz SISO 25MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2508.51	Outer_Full	23.12	24.68	/	Pass
	2593.005	Outer_Full	23.14	24.66	/	Pass
	2677.5	Outer_Full	23.11	24.70	/	Pass
DFT-s-OFDM QPSK	2508.51	Outer_Full	23.11	24.71	/	Pass
	2593.005	Outer_Full	23.11	24.70	/	Pass
	2677.5	Outer_Full	23.10	24.75	/	Pass
DFT-s-OFDM 16 QAM	2508.51	Outer_Full	23.07	24.70	/	Pass
	2593.005	Outer_Full	23.03	24.70	/	Pass
	2677.5	Outer_Full	23.12	24.68	/	Pass
DFT-s-OFDM 64 QAM	2508.51	Outer_Full	23.11	24.71	/	Pass
	2593.005	Outer_Full	23.14	24.70	/	Pass
	2677.5	Outer_Full	23.13	24.73	/	Pass
DFT-s-OFDM 256 QAM	2508.51	Outer_Full	23.05	24.68	/	Pass
	2593.005	Outer_Full	23.01	24.67	/	Pass
	2677.5	Outer_Full	23.11	24.68	/	Pass
CP-OFDM QPSK	2508.51	Outer_Full	23.98	25.60	/	Pass
	2593.005	Outer_Full	23.97	25.62	/	Pass
	2677.5	Outer_Full	23.98	25.60	/	Pass
CP-OFDM 16 QAM	2508.51	Outer_Full	23.93	25.58	/	Pass
	2593.005	Outer_Full	23.97	25.58	/	Pass
	2677.5	Outer_Full	23.97	25.61	/	Pass
CP-OFDM 64 QAM	2508.51	Outer_Full	24.00	25.61	/	Pass
	2593.005	Outer_Full	24.02	25.57	/	Pass
	2677.5	Outer_Full	24.04	25.67	/	Pass
CP-OFDM 256 QAM	2508.51	Outer_Full	23.91	25.56	/	Pass
	2593.005	Outer_Full	23.92	25.58	/	Pass
	2677.5	Outer_Full	23.99	25.60	/	Pass

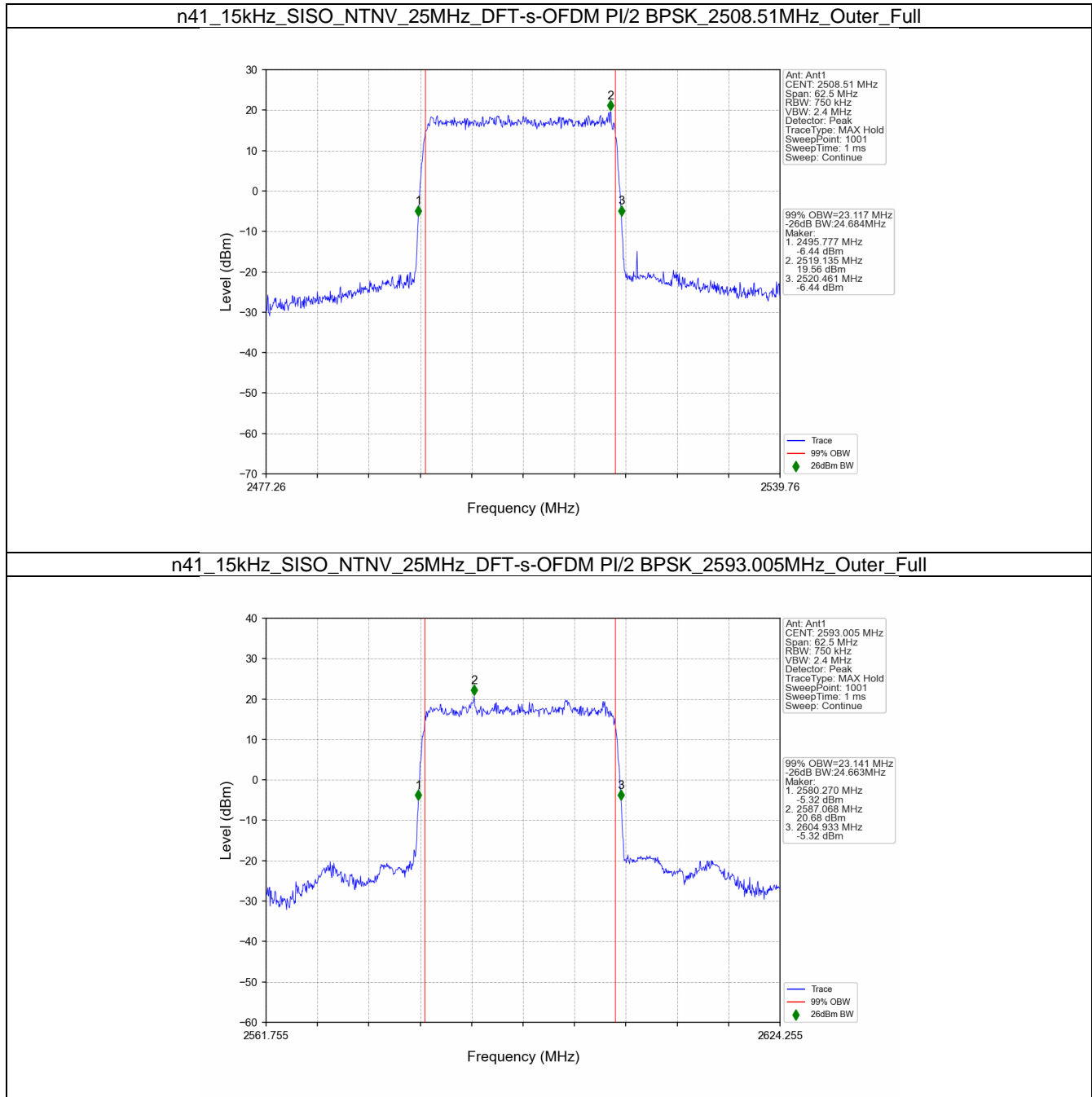


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4.4.2 Test Graph

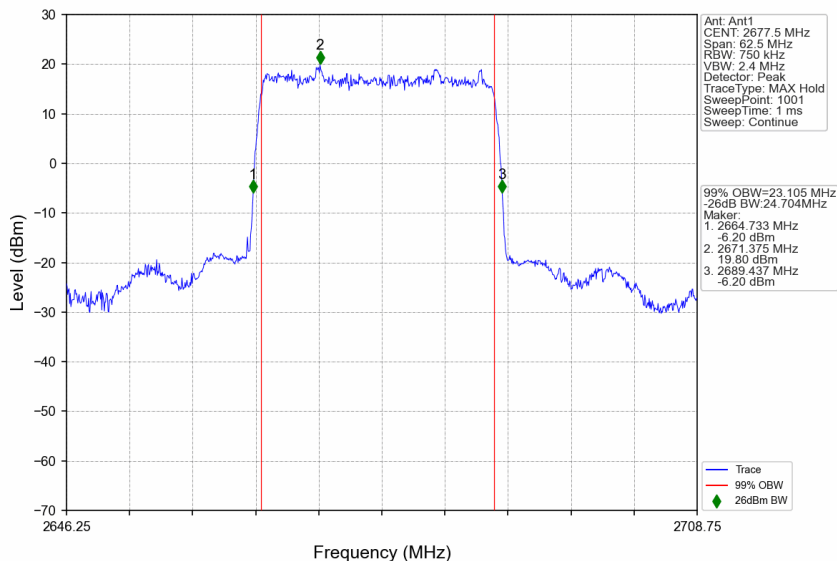


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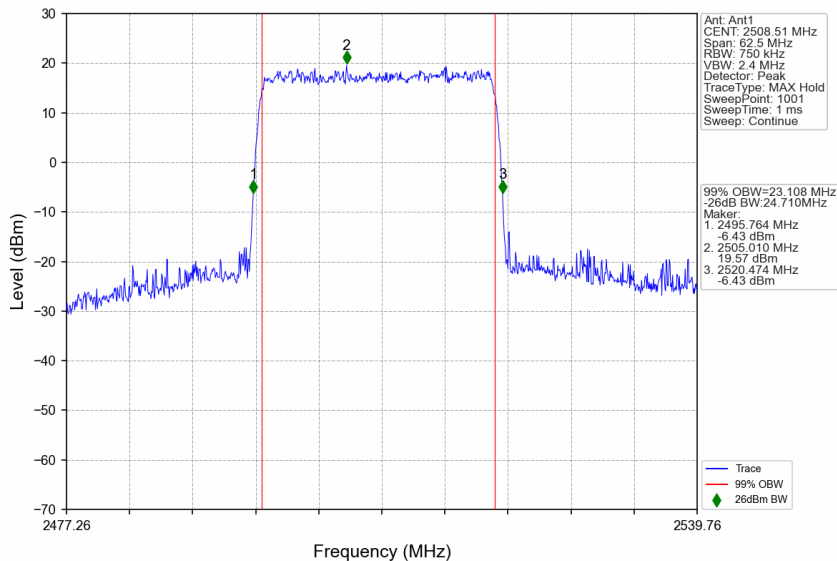
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n41_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_2677.5MHz_Outer_Full



n41_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2508.51MHz_Outer_Full

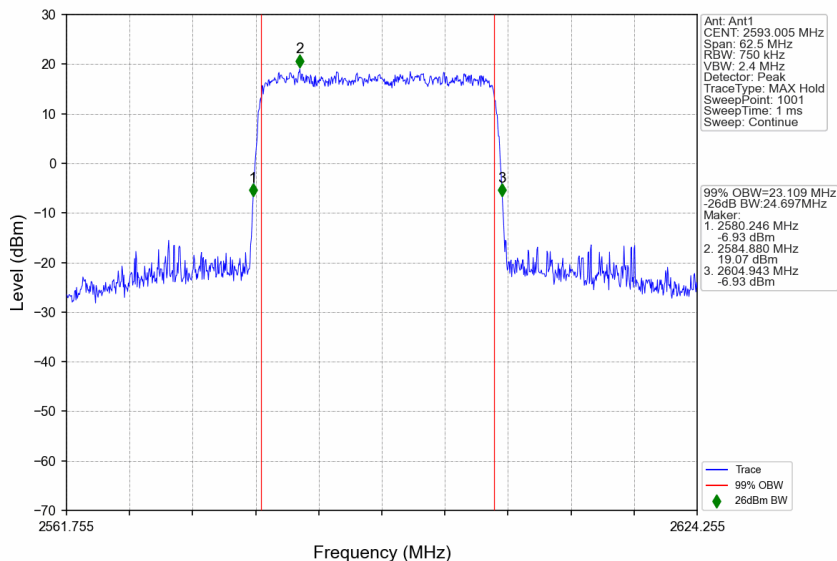


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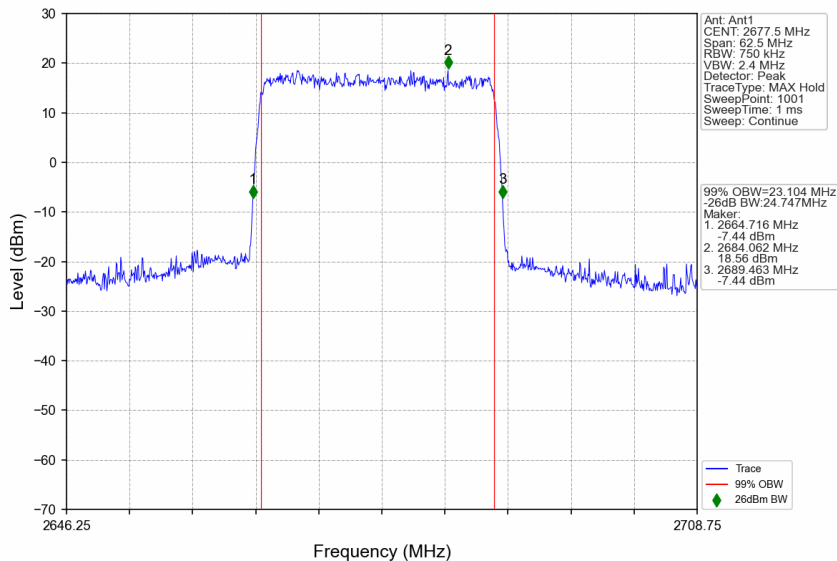
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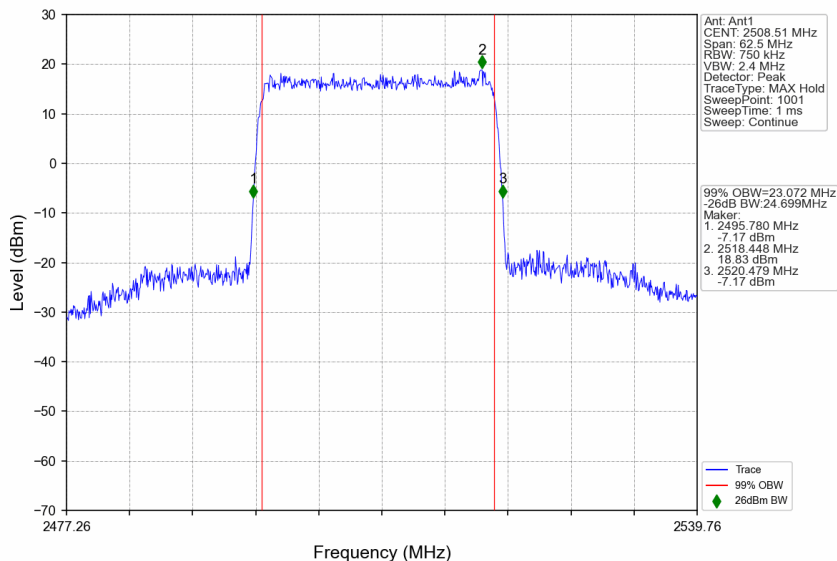
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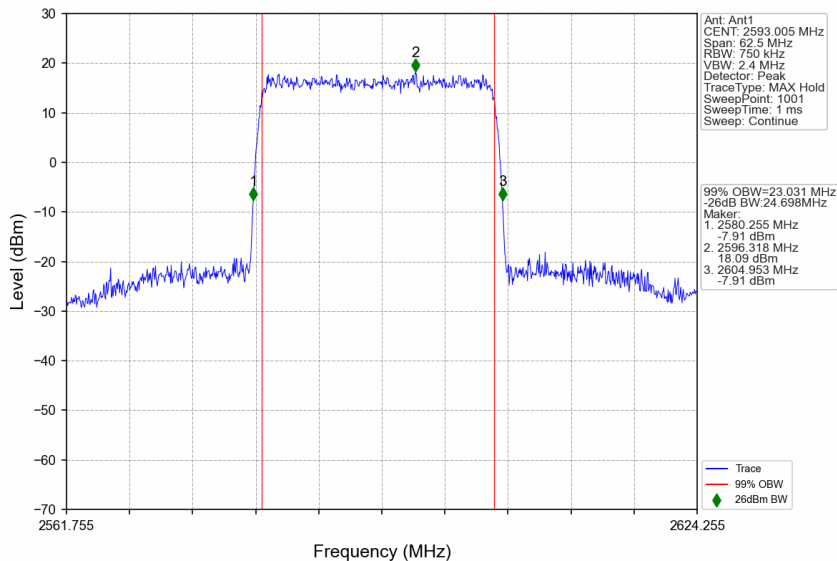
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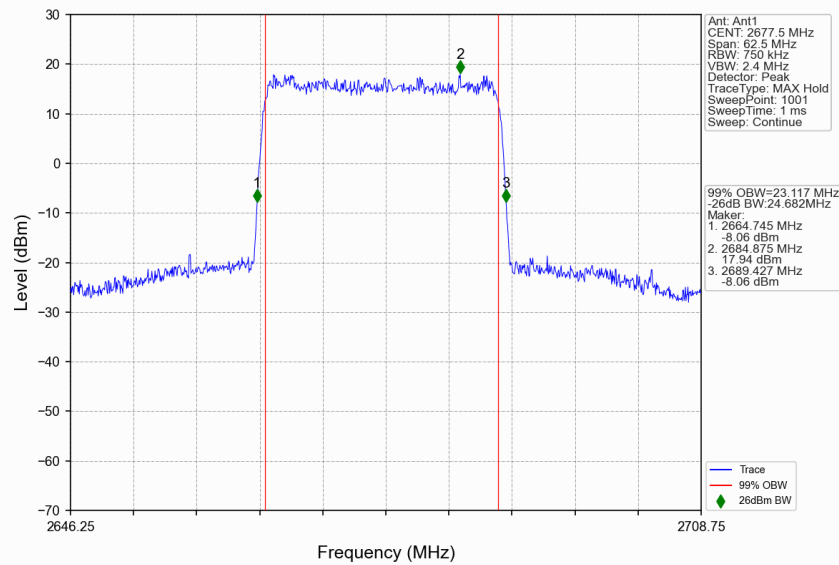


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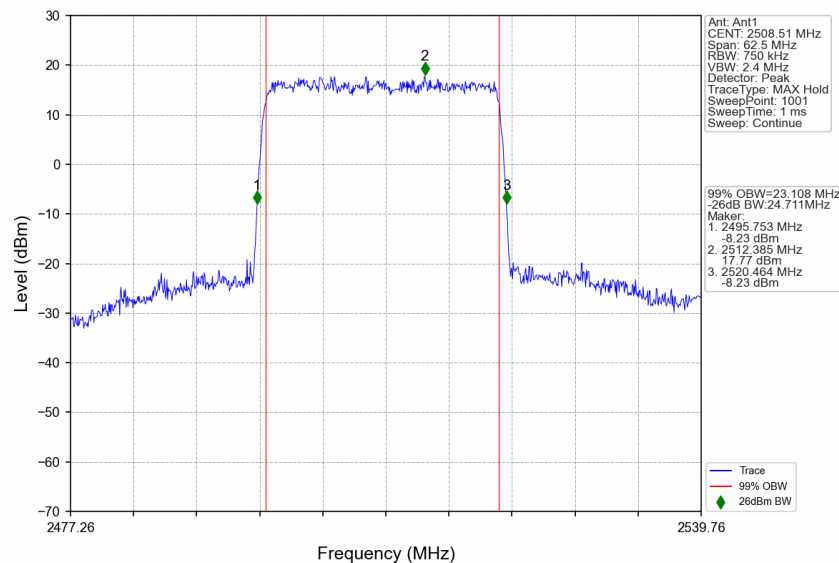
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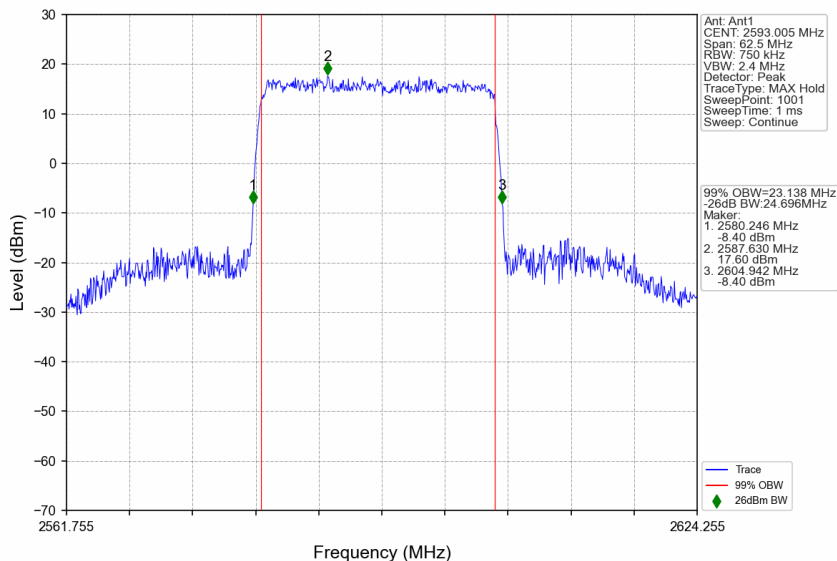


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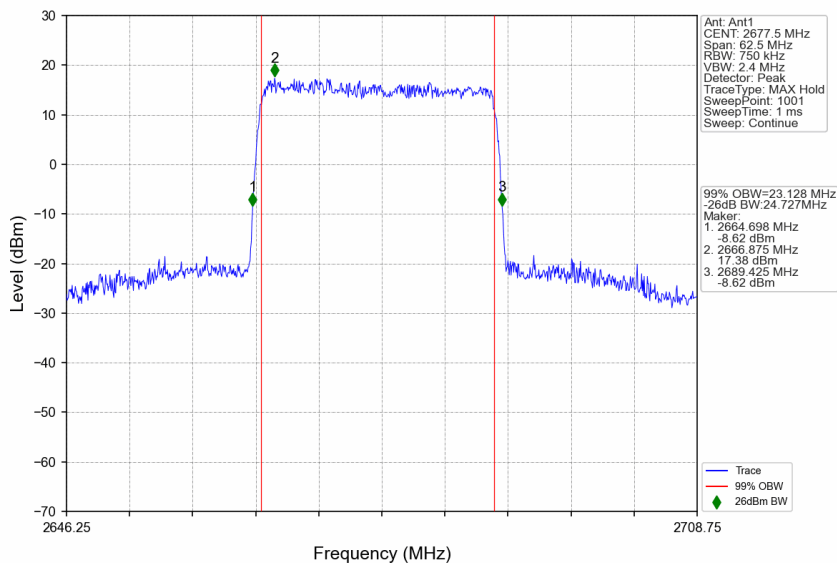
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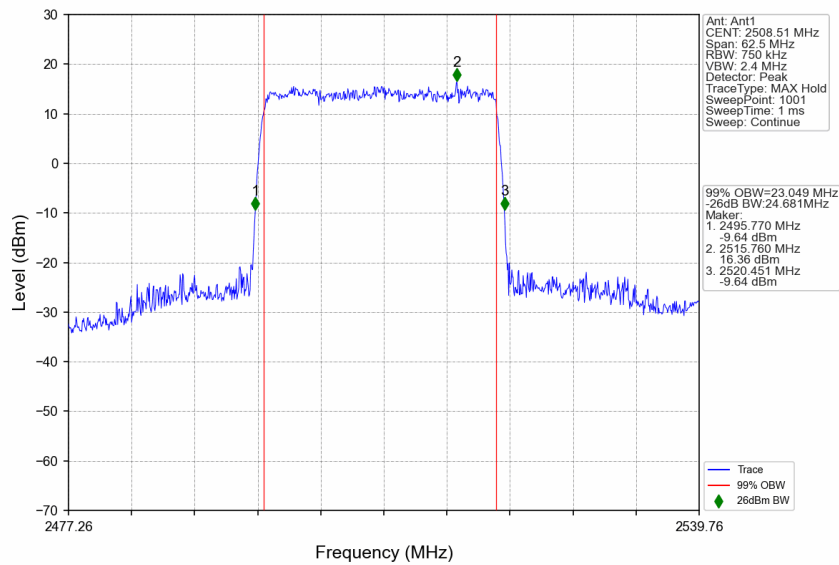


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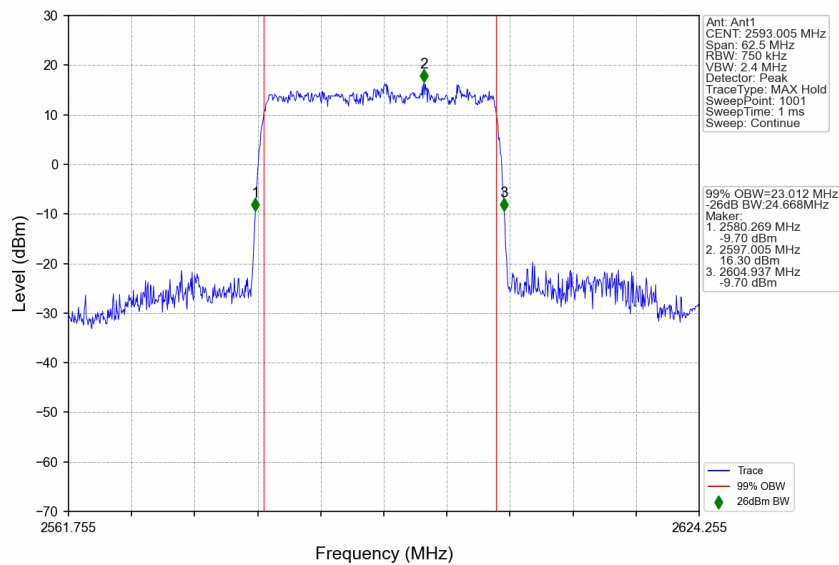
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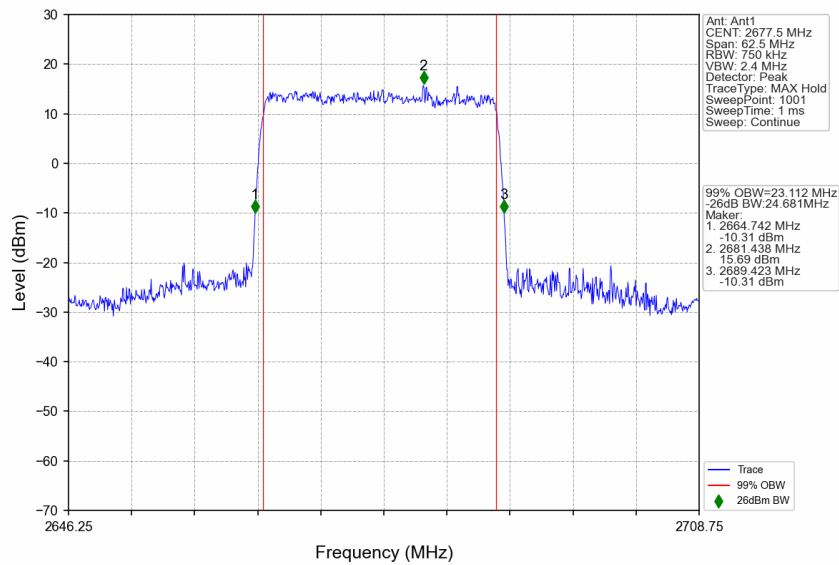


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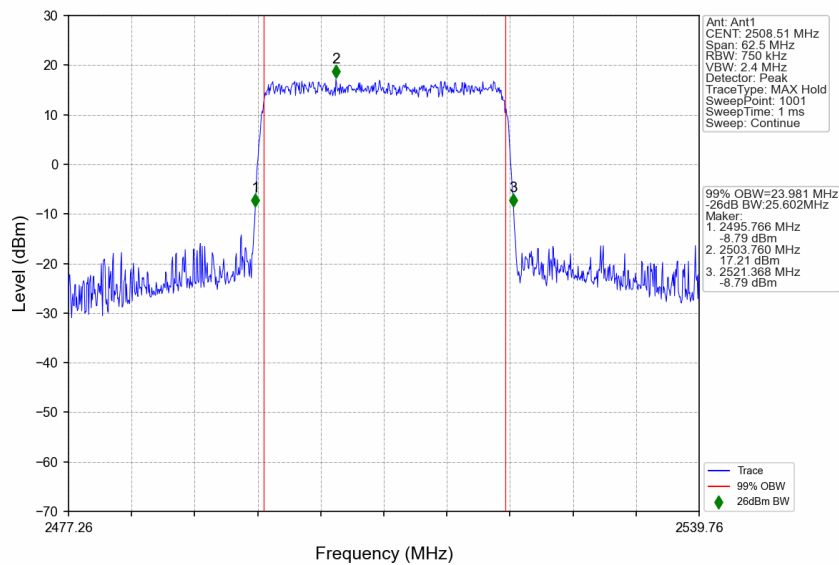
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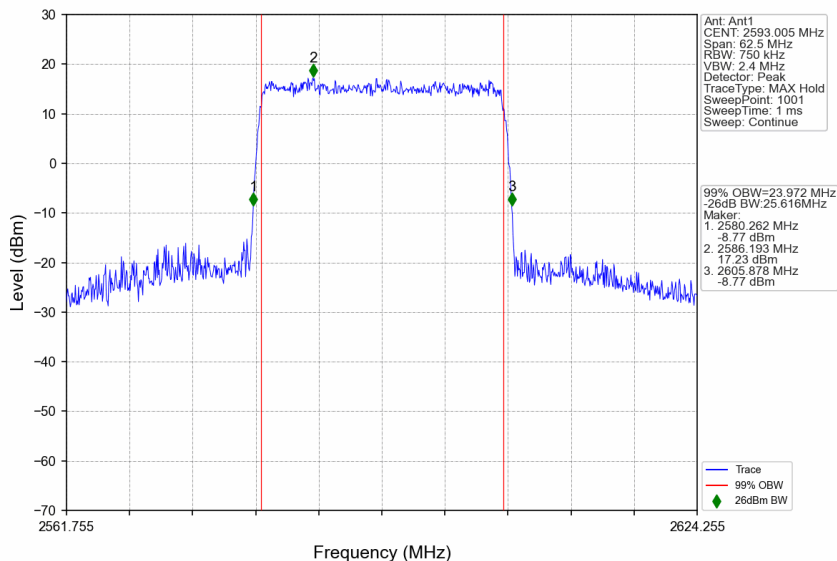
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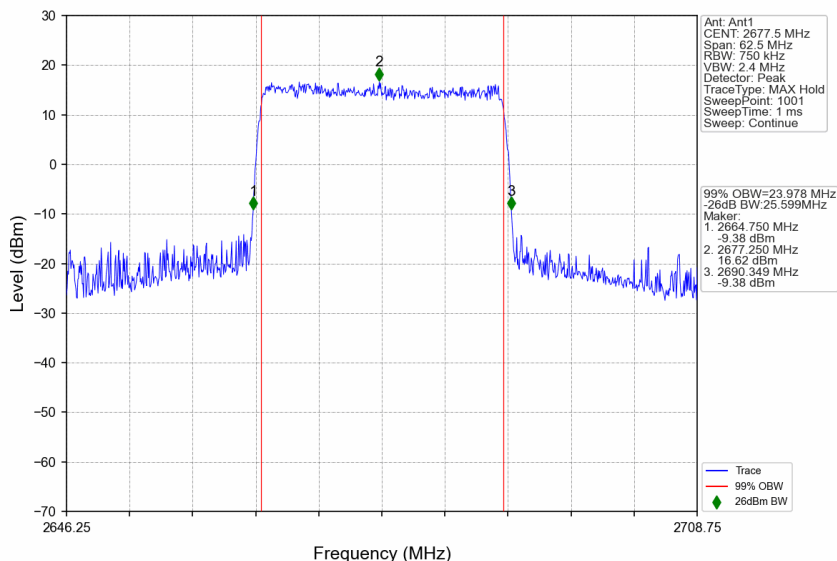
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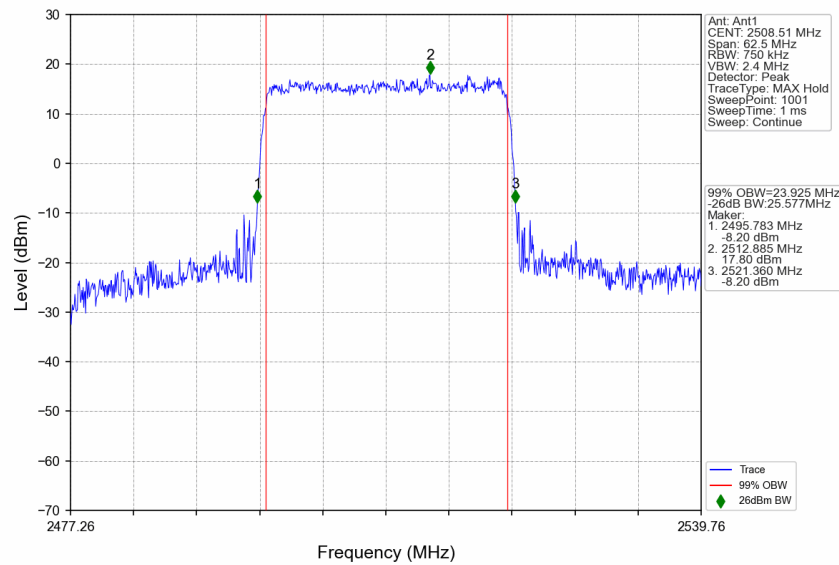


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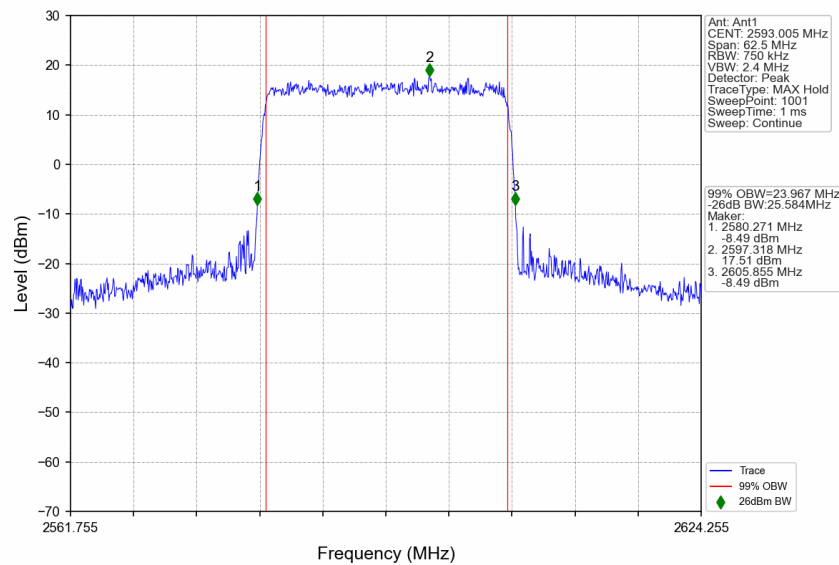
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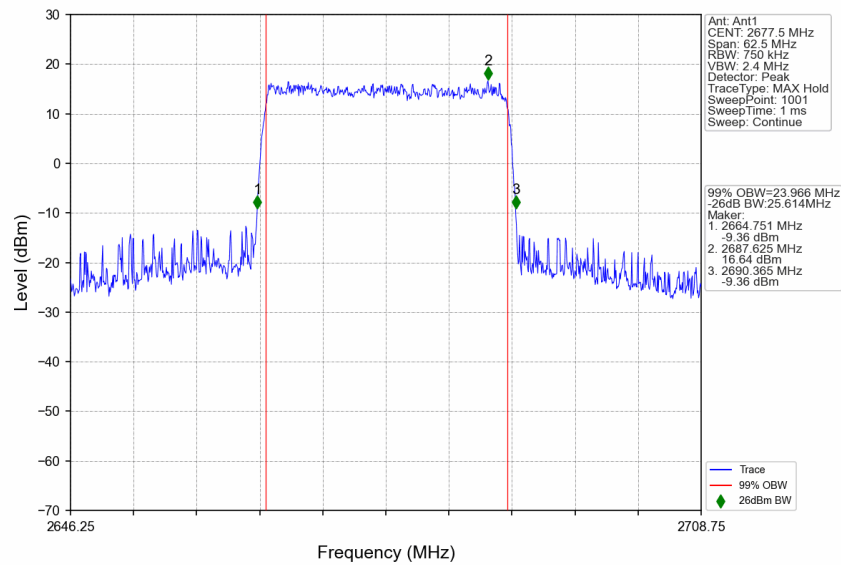


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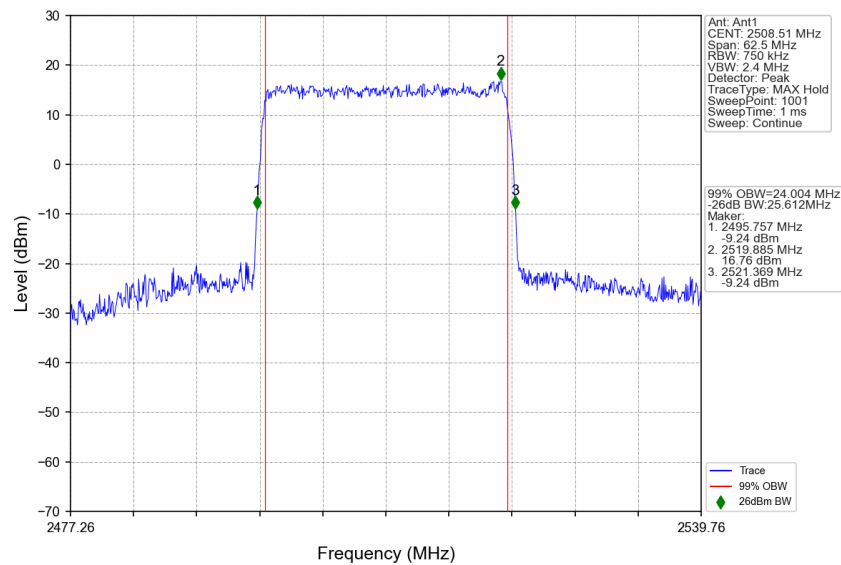
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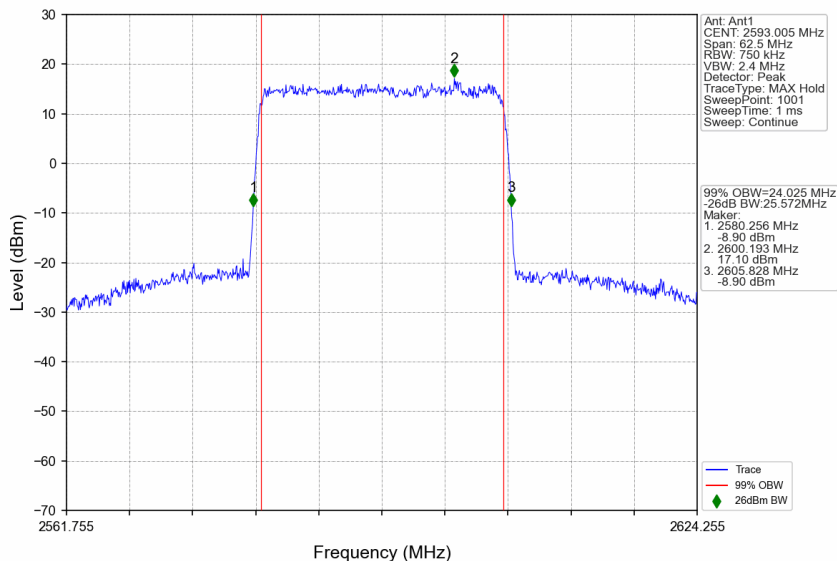


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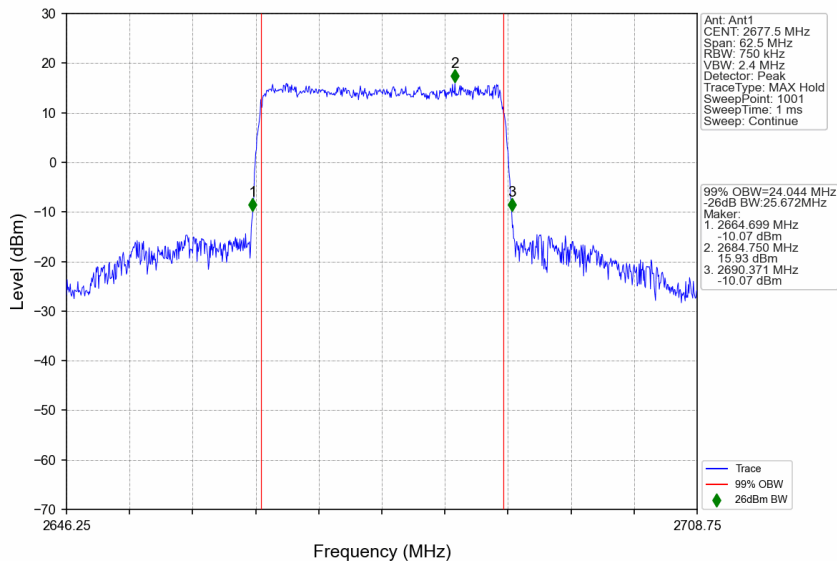
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n41_15kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_2593.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_2677.5MHz_Outer_Full



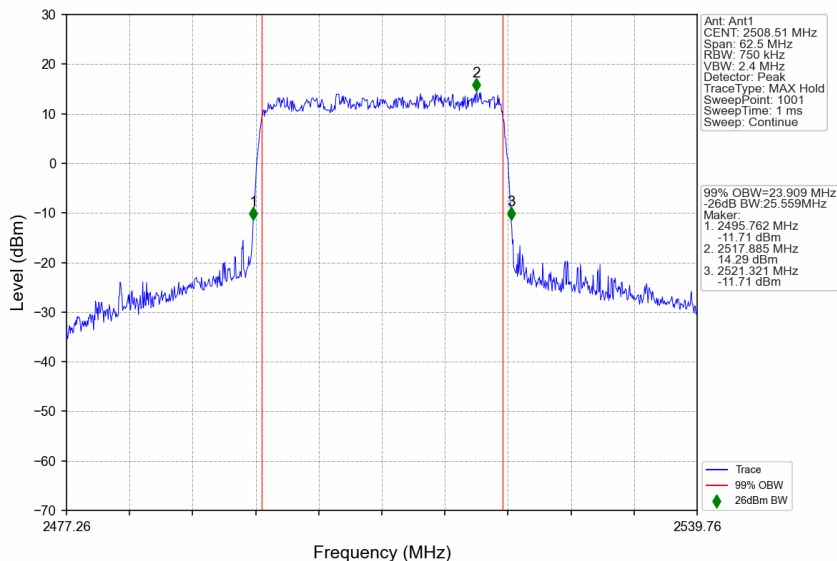
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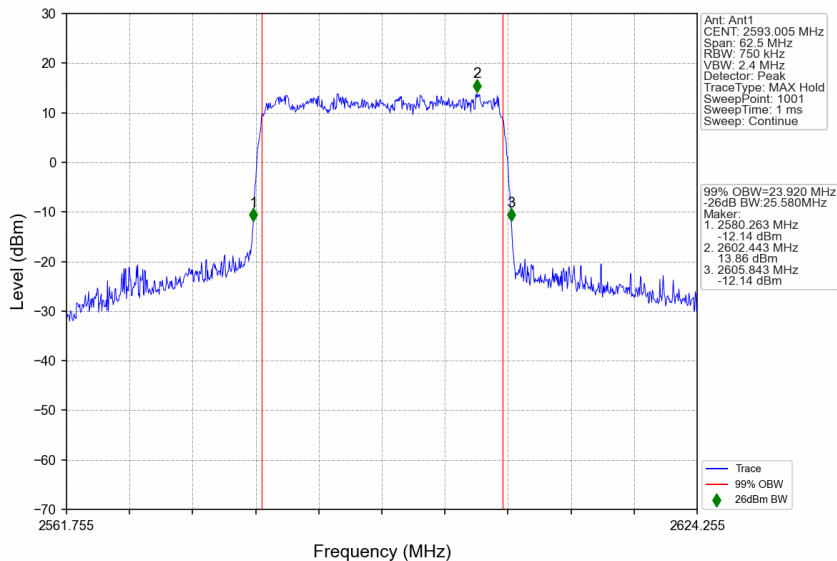
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n41_15kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_2508.51MHz_Outer_Full



n41_15kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_2593.005MHz_Outer_Full

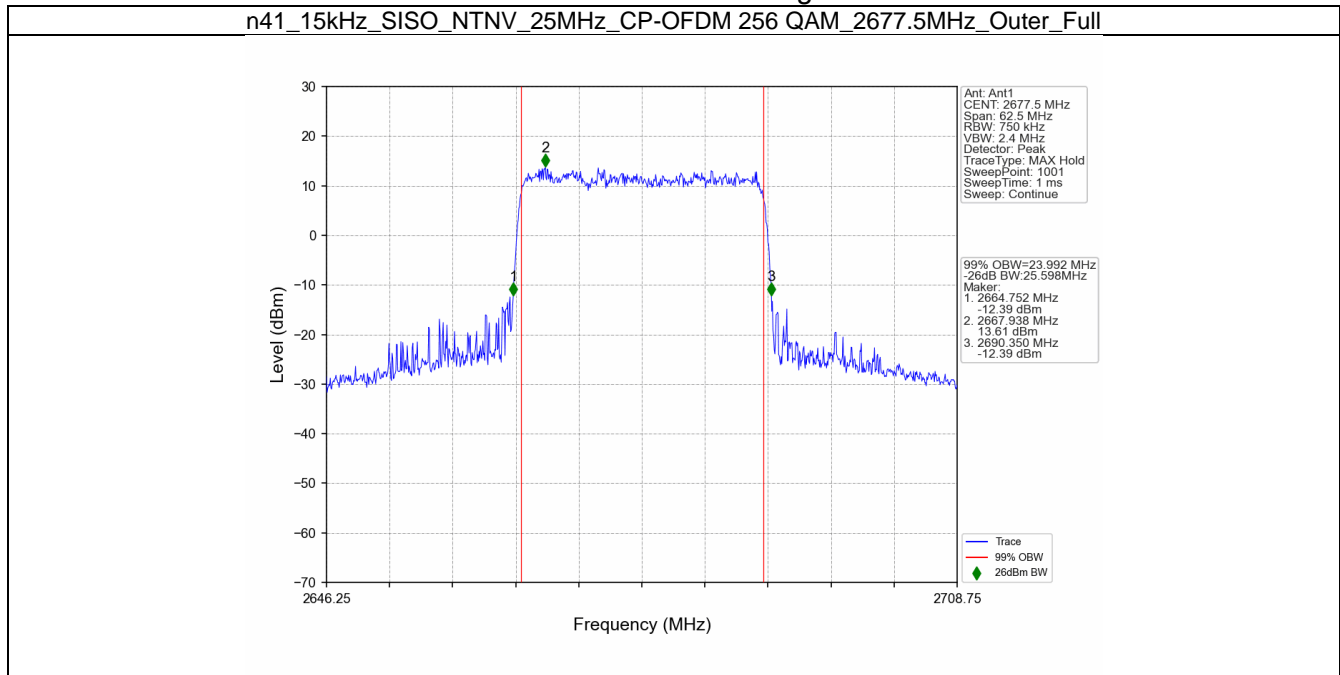


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n41_15kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_2677.5MHz_Outer_Full



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4.5 15k_SISO_30MHz_NTNV

4.5.1 Test Result

5G NR n41 SCS=15kHz SISO 30MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2511	Outer_Full	28.83	30.82	/	Pass
	2593.005	Outer_Full	28.84	30.67	/	Pass
	2674.995	Outer_Full	28.91	30.83	/	Pass
DFT-s-OFDM QPSK	2511	Outer_Full	28.87	30.80	/	Pass
	2593.005	Outer_Full	28.89	30.90	/	Pass
	2674.995	Outer_Full	28.85	30.81	/	Pass
DFT-s-OFDM 16 QAM	2511	Outer_Full	28.82	30.81	/	Pass
	2593.005	Outer_Full	28.79	30.82	/	Pass
	2674.995	Outer_Full	28.84	30.85	/	Pass
DFT-s-OFDM 64 QAM	2511	Outer_Full	28.90	30.85	/	Pass
	2593.005	Outer_Full	28.91	30.80	/	Pass
	2674.995	Outer_Full	28.88	30.84	/	Pass
DFT-s-OFDM 256 QAM	2511	Outer_Full	28.83	30.77	/	Pass
	2593.005	Outer_Full	28.79	30.77	/	Pass
	2674.995	Outer_Full	28.86	30.79	/	Pass
CP-OFDM QPSK	2511	Outer_Full	28.89	30.87	/	Pass
	2593.005	Outer_Full	28.85	30.80	/	Pass
	2674.995	Outer_Full	28.89	30.83	/	Pass
CP-OFDM 16 QAM	2511	Outer_Full	28.79	30.77	/	Pass
	2593.005	Outer_Full	28.72	30.72	/	Pass
	2674.995	Outer_Full	28.79	30.72	/	Pass
CP-OFDM 64 QAM	2511	Outer_Full	28.81	30.75	/	Pass
	2593.005	Outer_Full	28.90	30.85	/	Pass
	2674.995	Outer_Full	28.87	30.79	/	Pass
CP-OFDM 256 QAM	2511	Outer_Full	28.79	30.82	/	Pass
	2593.005	Outer_Full	28.78	30.84	/	Pass
	2674.995	Outer_Full	28.85	30.82	/	Pass

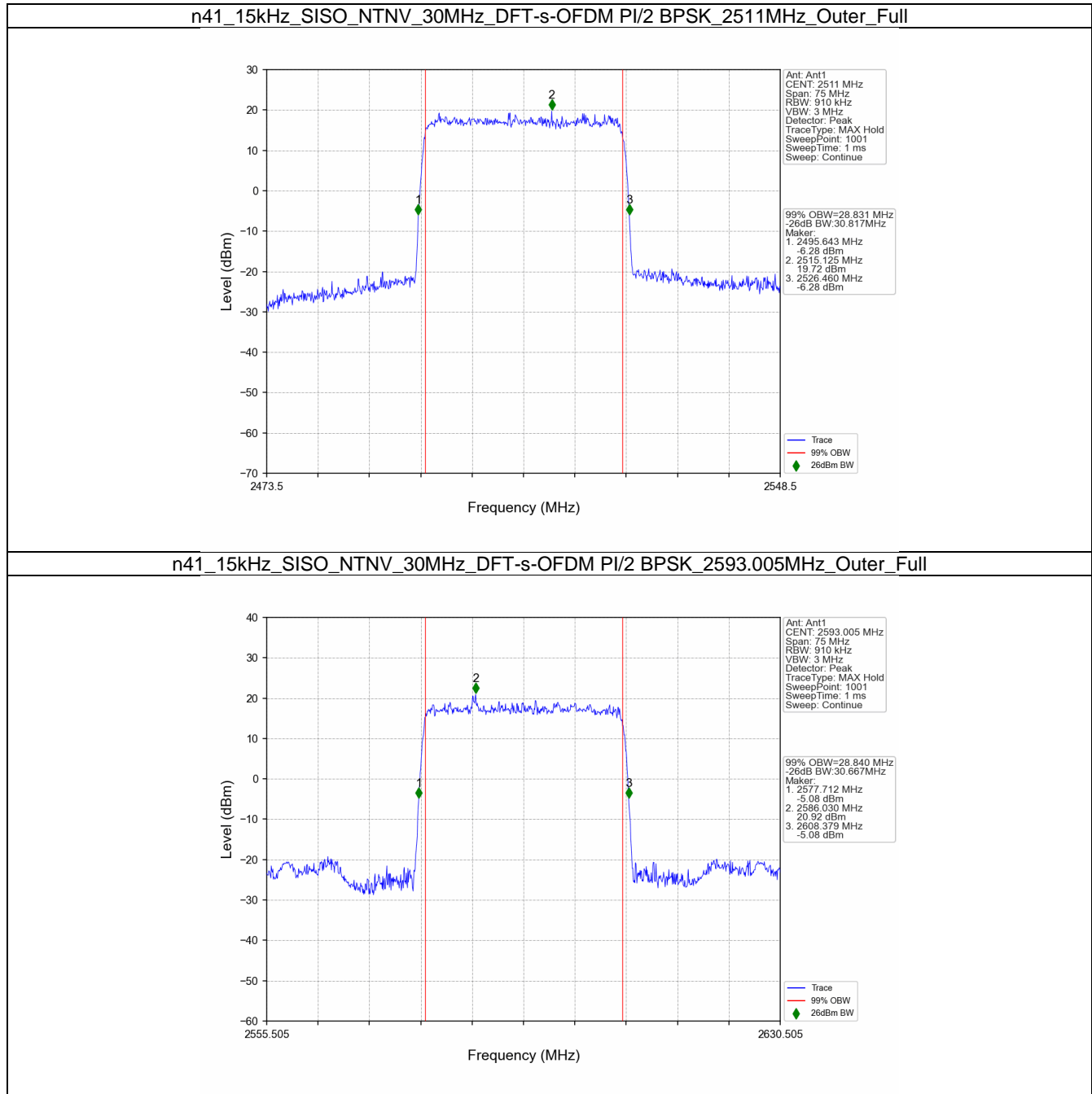


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4.5.2 Test Graph

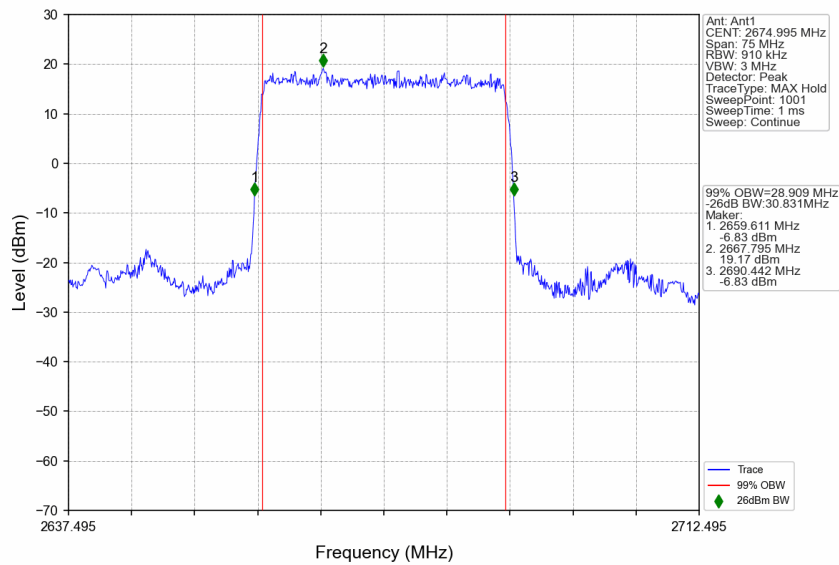


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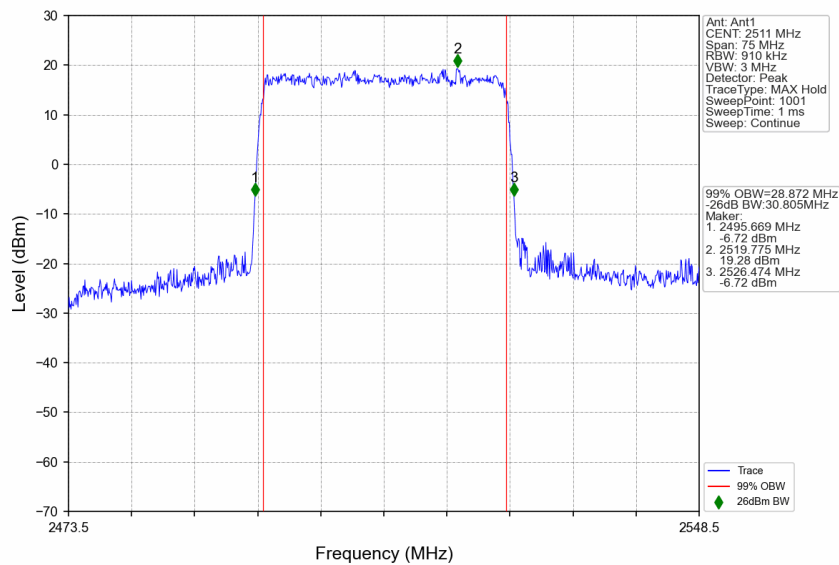
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n41_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2674.995MHz_Outer_Full



n41_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2511MHz_Outer_Full

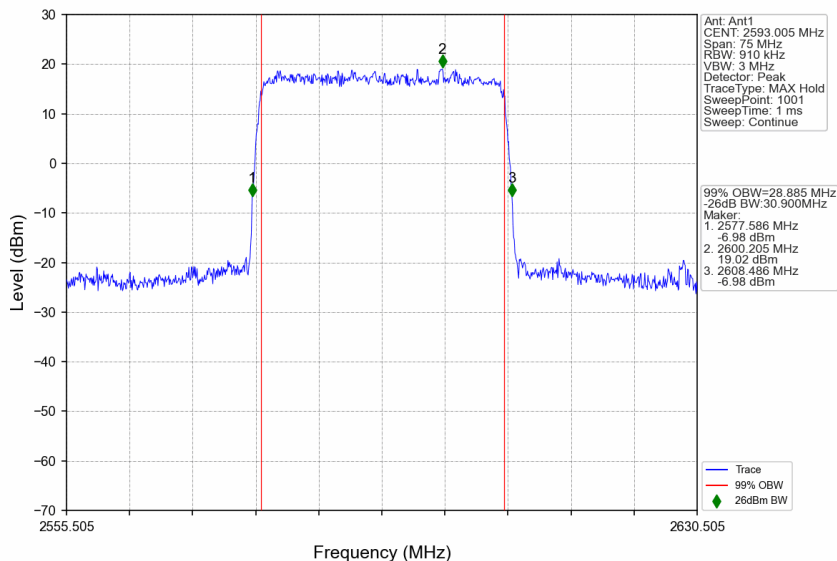


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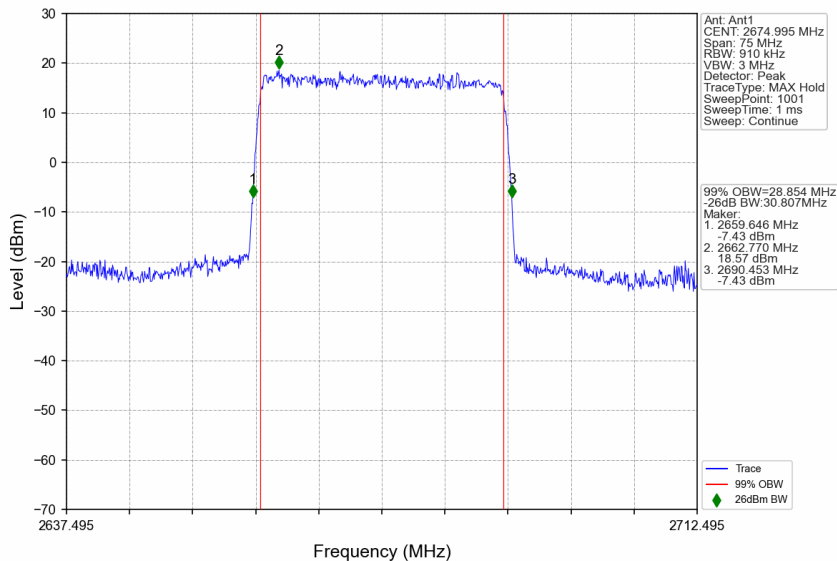
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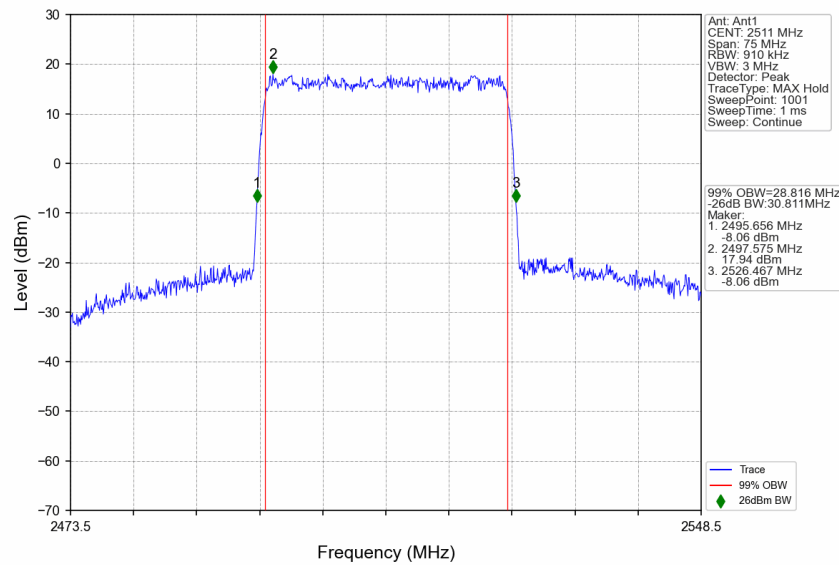


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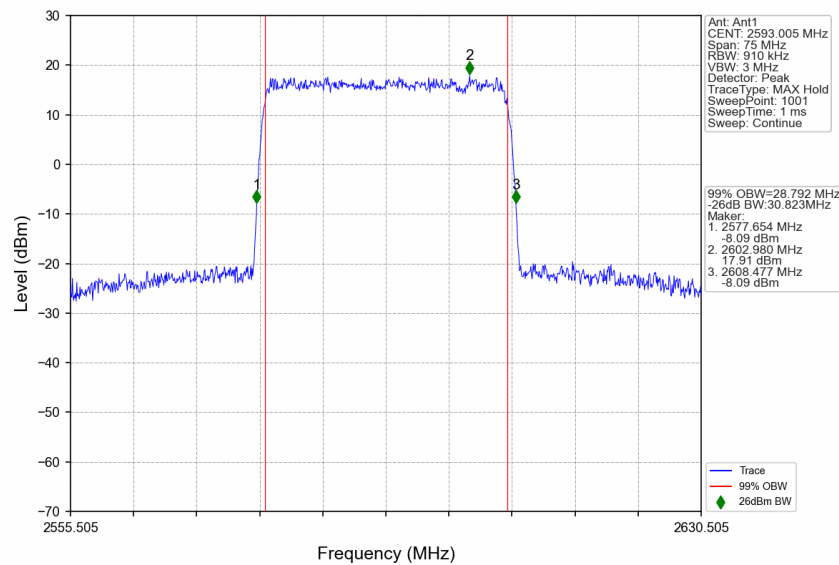
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n41_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_2511MHz_Outer_Full



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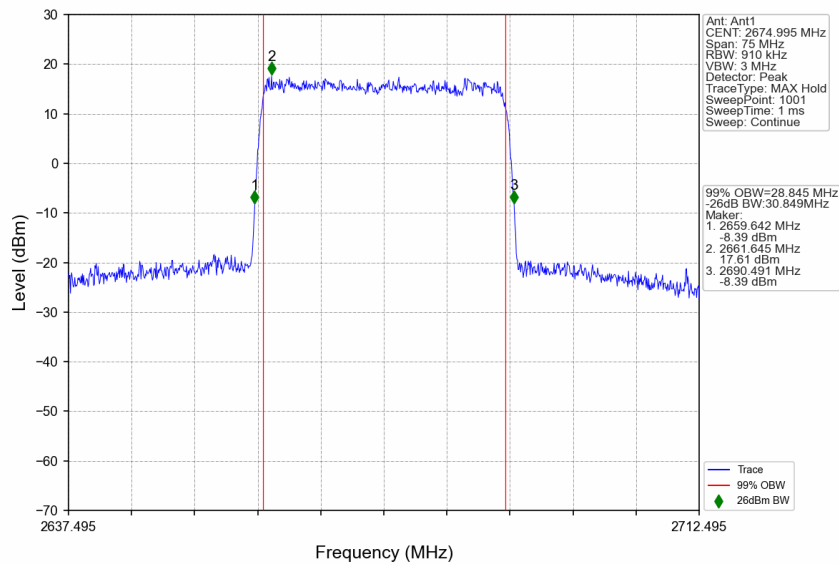


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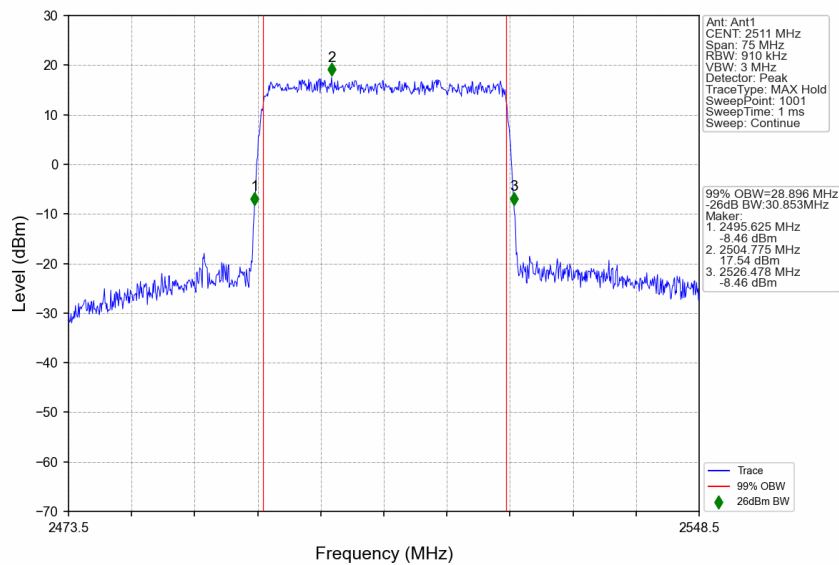
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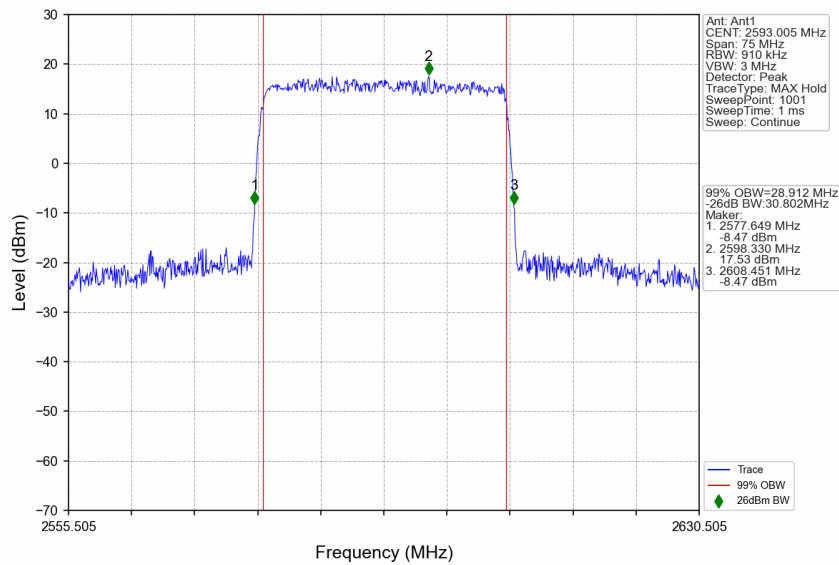


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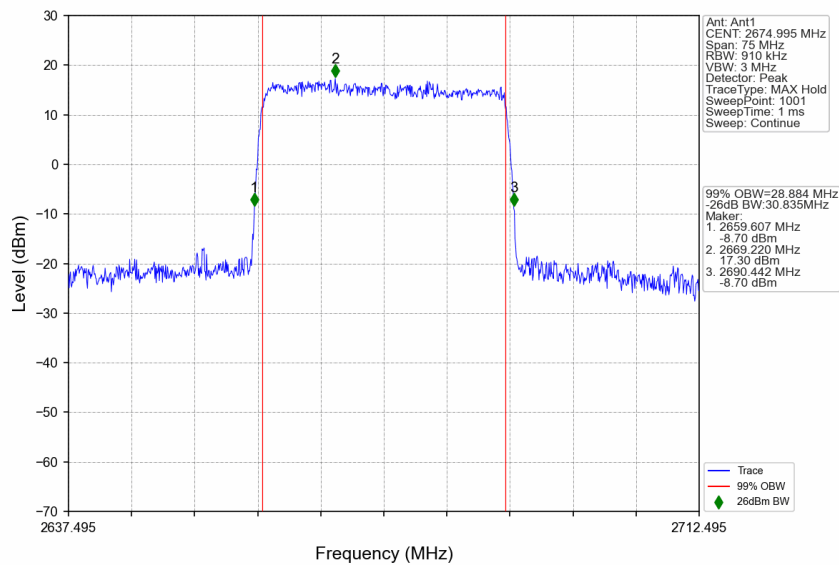
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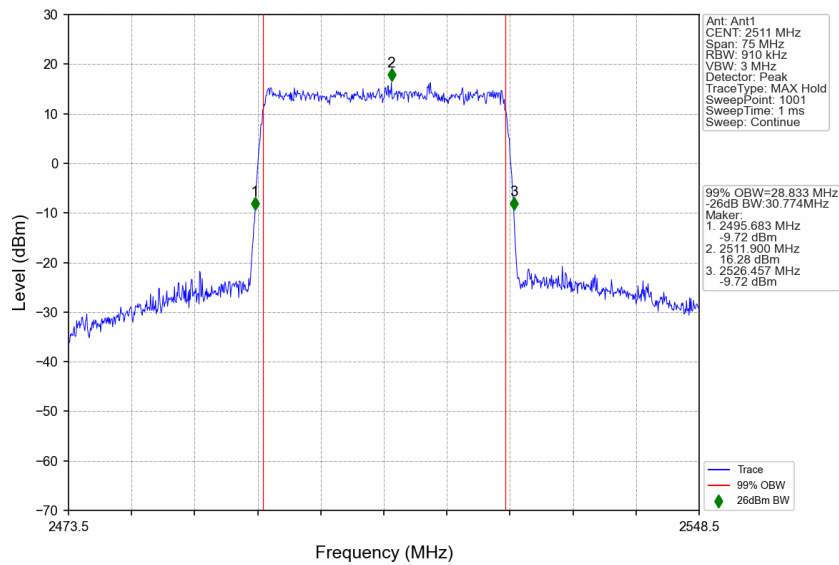


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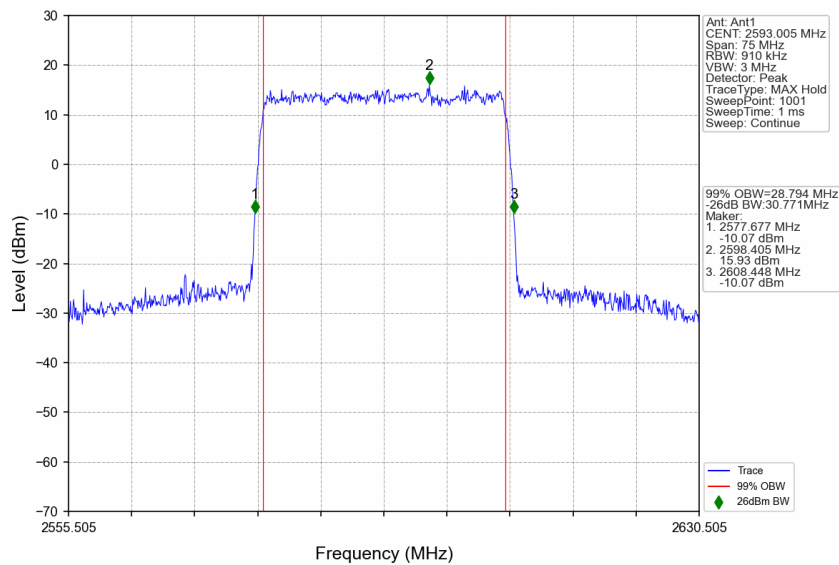
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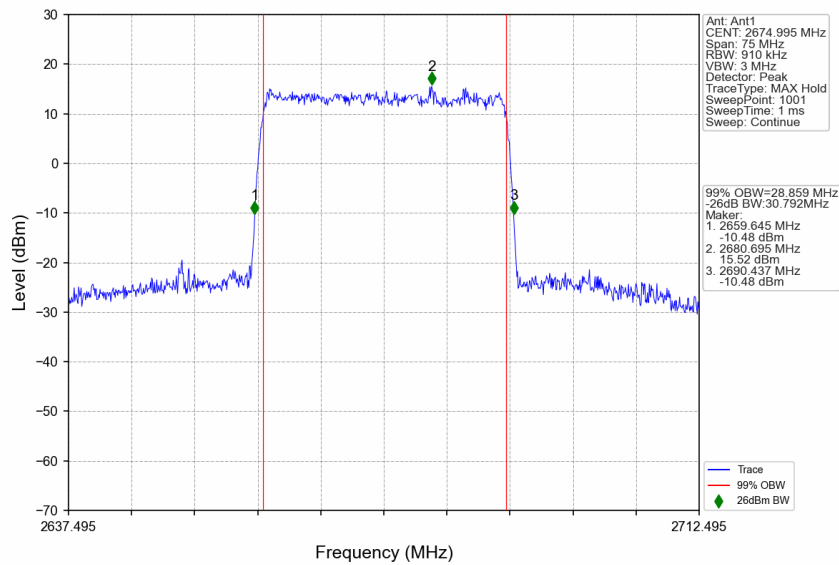


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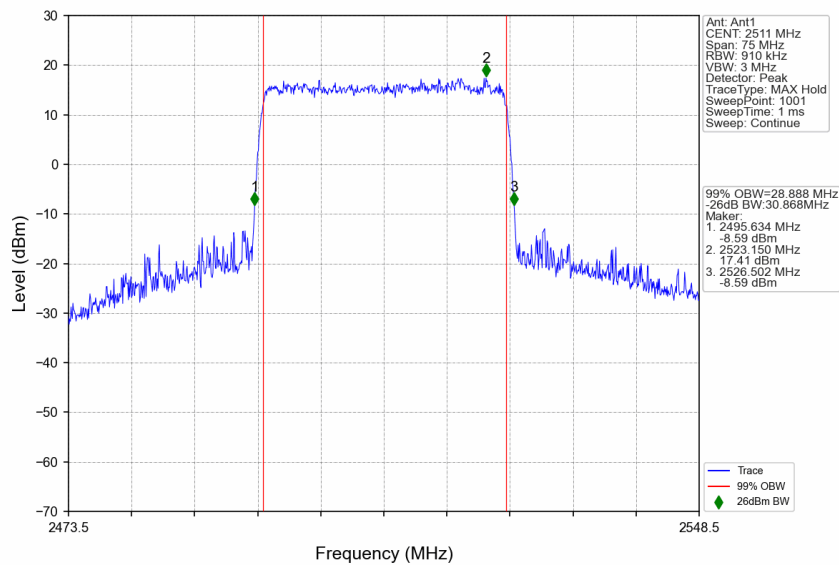
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n41_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_2674.995MHz_Outer_Full



n41_15kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2511MHz_Outer_Full

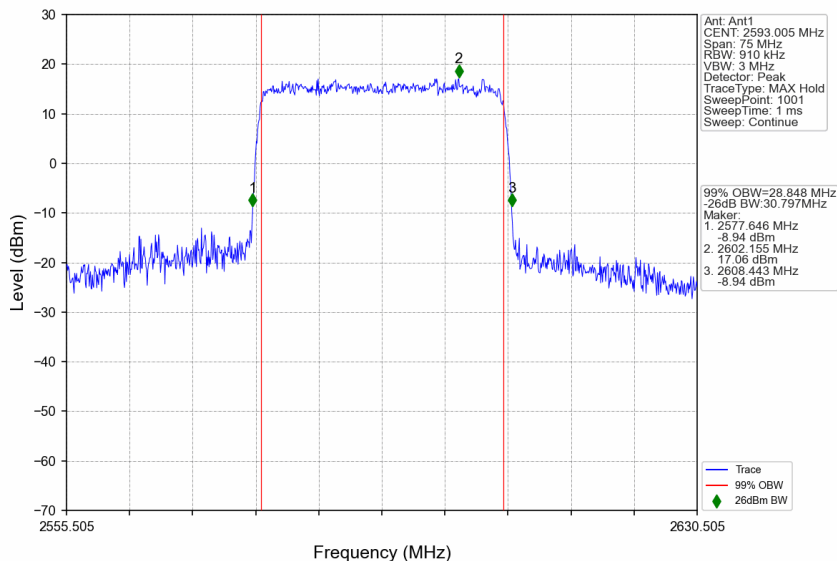


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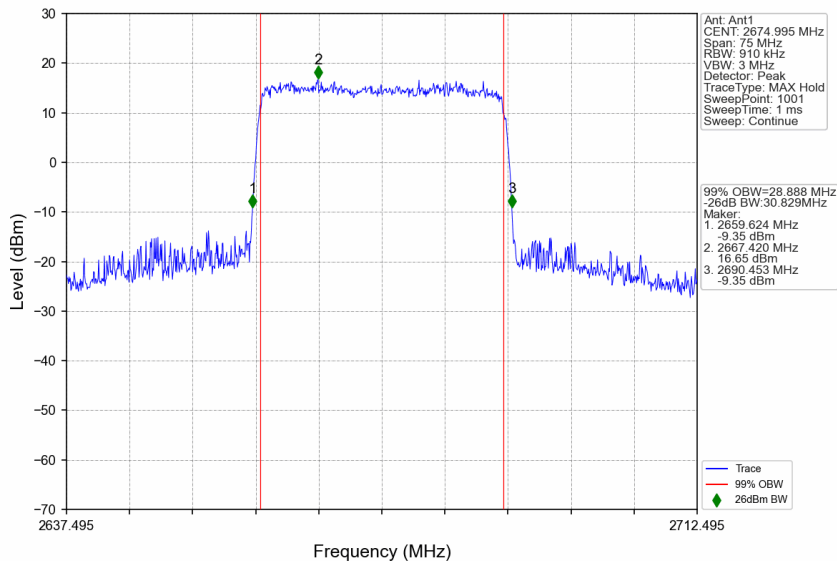
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n41_15kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2593.005MHz_Outer_Full



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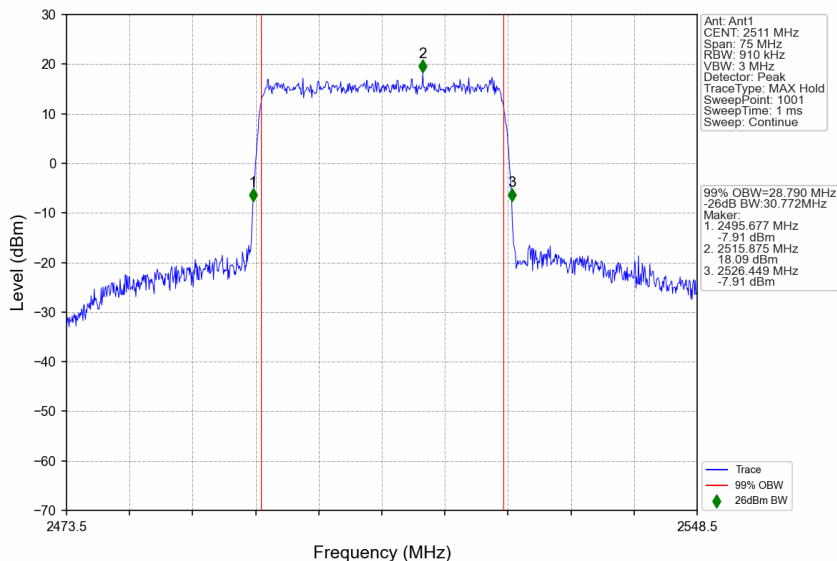


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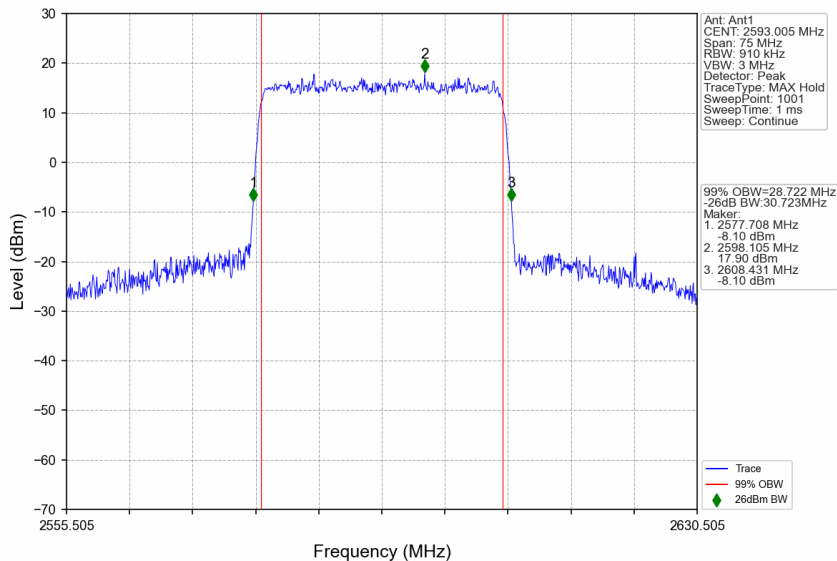
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n41_15kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2511MHz_Outer_Full



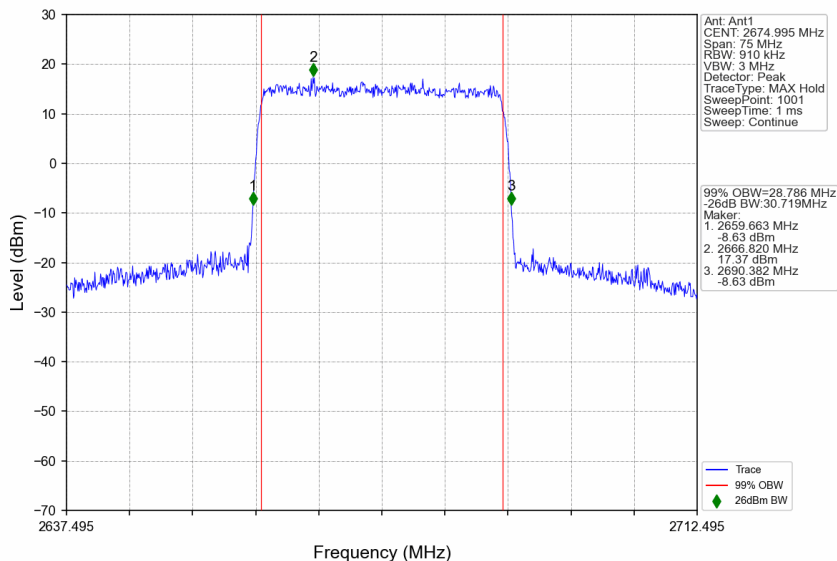
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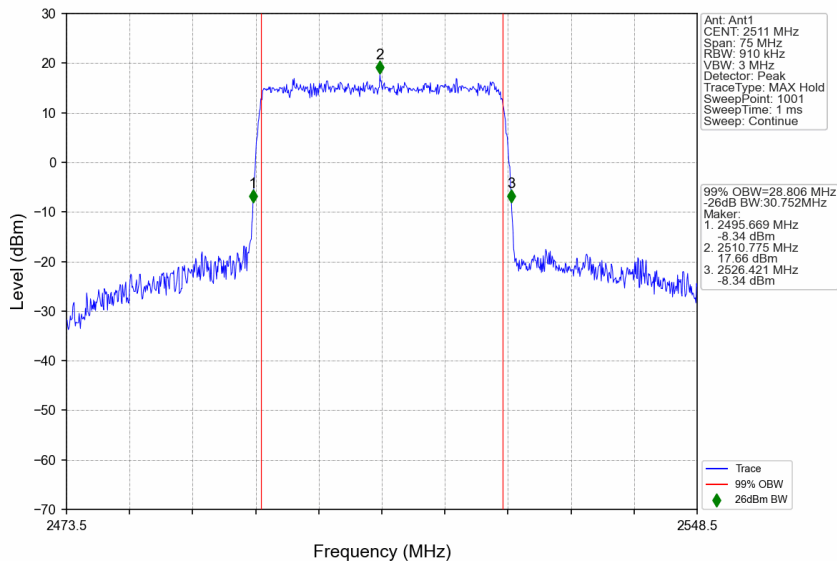
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n41_15kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2511MHz_Outer_Full

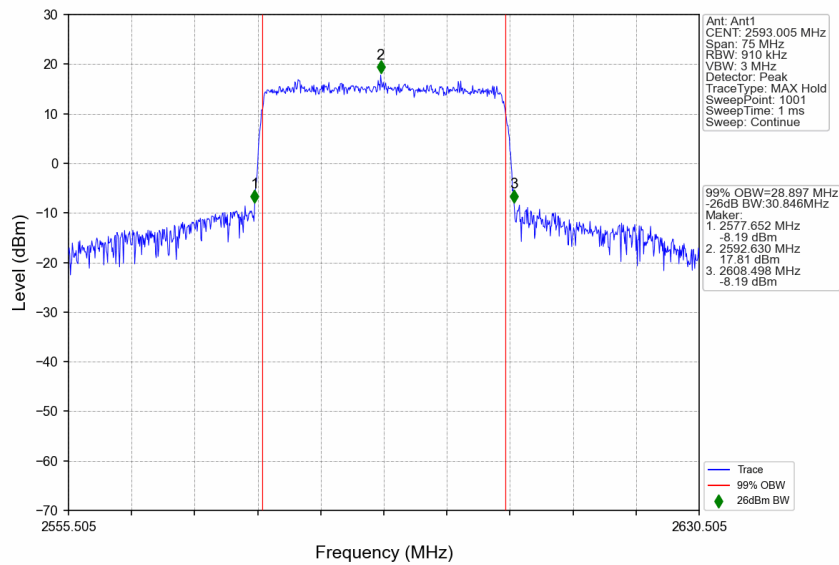


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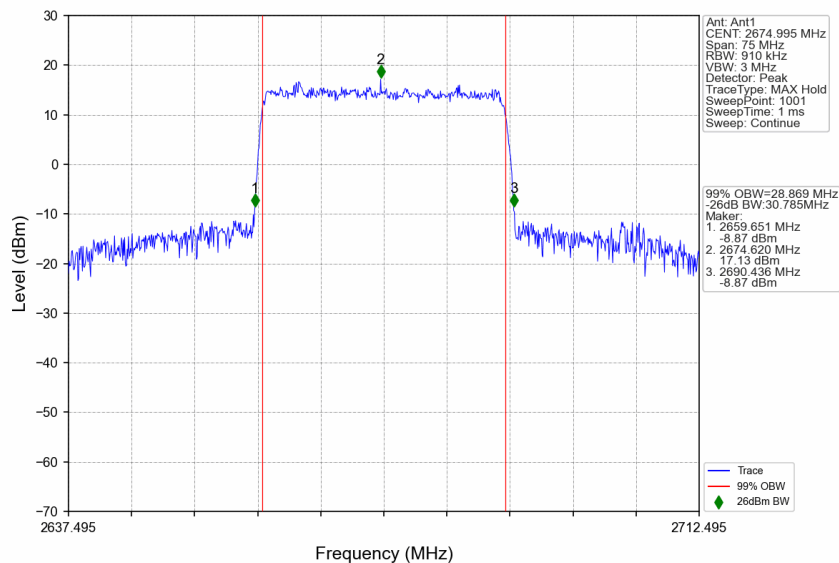
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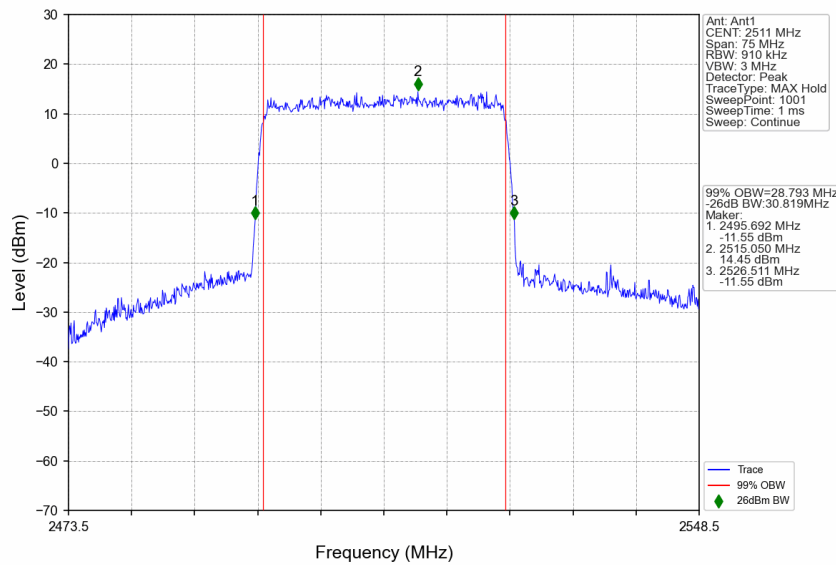


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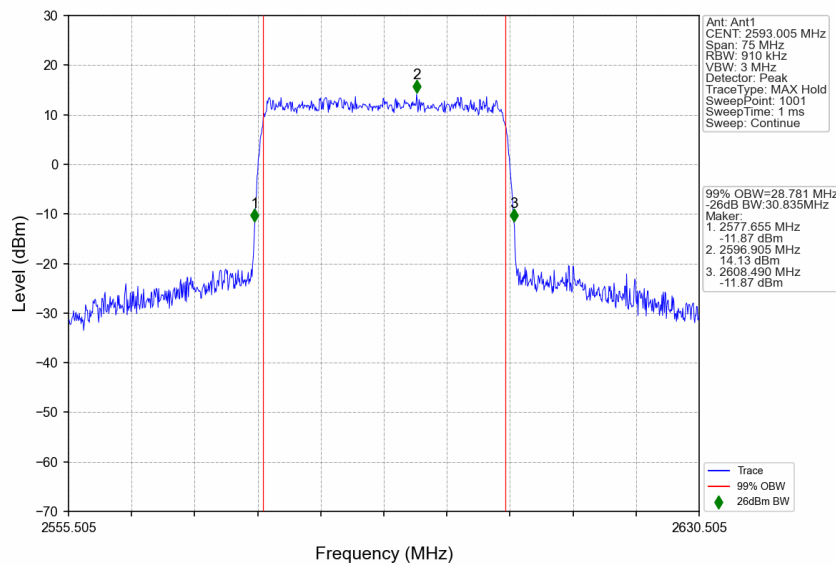
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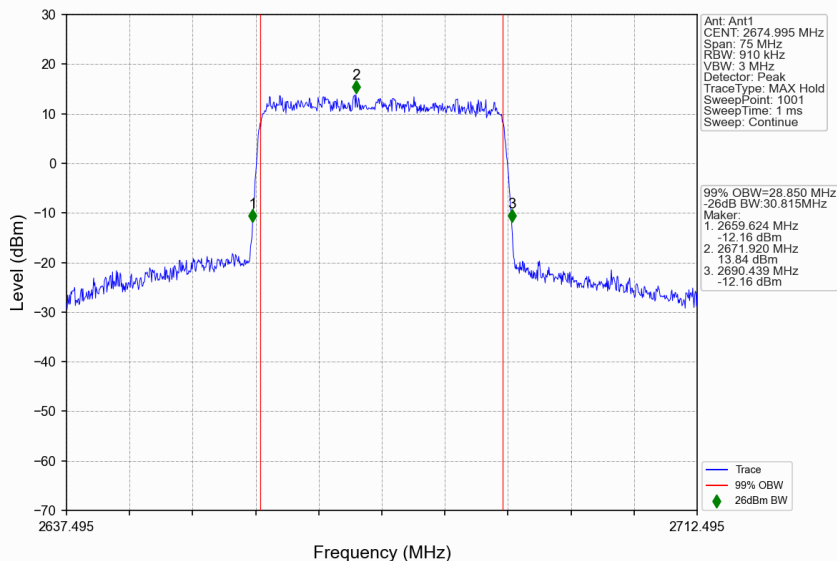


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 Wireless Laboratory

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4.6 15k_SISO_40MHz_NTNV

4.6.1 Test Result

5G NR n41 SCS=15kHz SISO 40MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2516.01	Outer_Full	38.84	41.46	/	Pass
	2593.005	Outer_Full	38.85	41.48	/	Pass
	2670	Outer_Full	38.91	41.52	/	Pass
DFT-s-OFDM QPSK	2516.01	Outer_Full	38.95	41.54	/	Pass
	2593.005	Outer_Full	38.81	41.48	/	Pass
	2670	Outer_Full	39.02	41.60	/	Pass
DFT-s-OFDM 16 QAM	2516.01	Outer_Full	38.90	41.52	/	Pass
	2593.005	Outer_Full	38.86	41.48	/	Pass
	2670	Outer_Full	38.78	41.53	/	Pass
DFT-s-OFDM 64 QAM	2516.01	Outer_Full	38.99	41.55	/	Pass
	2593.005	Outer_Full	38.85	41.51	/	Pass
	2670	Outer_Full	39.03	41.49	/	Pass
DFT-s-OFDM 256 QAM	2516.01	Outer_Full	38.94	41.48	/	Pass
	2593.005	Outer_Full	38.95	41.46	/	Pass
	2670	Outer_Full	38.89	41.46	/	Pass
CP-OFDM QPSK	2516.01	Outer_Full	38.95	41.47	/	Pass
	2593.005	Outer_Full	38.90	41.45	/	Pass
	2670	Outer_Full	38.90	41.50	/	Pass
CP-OFDM 16 QAM	2516.01	Outer_Full	38.76	41.48	/	Pass
	2593.005	Outer_Full	38.79	41.52	/	Pass
	2670	Outer_Full	38.86	41.54	/	Pass
CP-OFDM 64 QAM	2516.01	Outer_Full	38.94	41.49	/	Pass
	2593.005	Outer_Full	38.87	41.52	/	Pass
	2670	Outer_Full	38.89	41.49	/	Pass
CP-OFDM 256 QAM	2516.01	Outer_Full	38.95	41.56	/	Pass
	2593.005	Outer_Full	38.84	41.52	/	Pass
	2670	Outer_Full	38.98	41.54	/	Pass

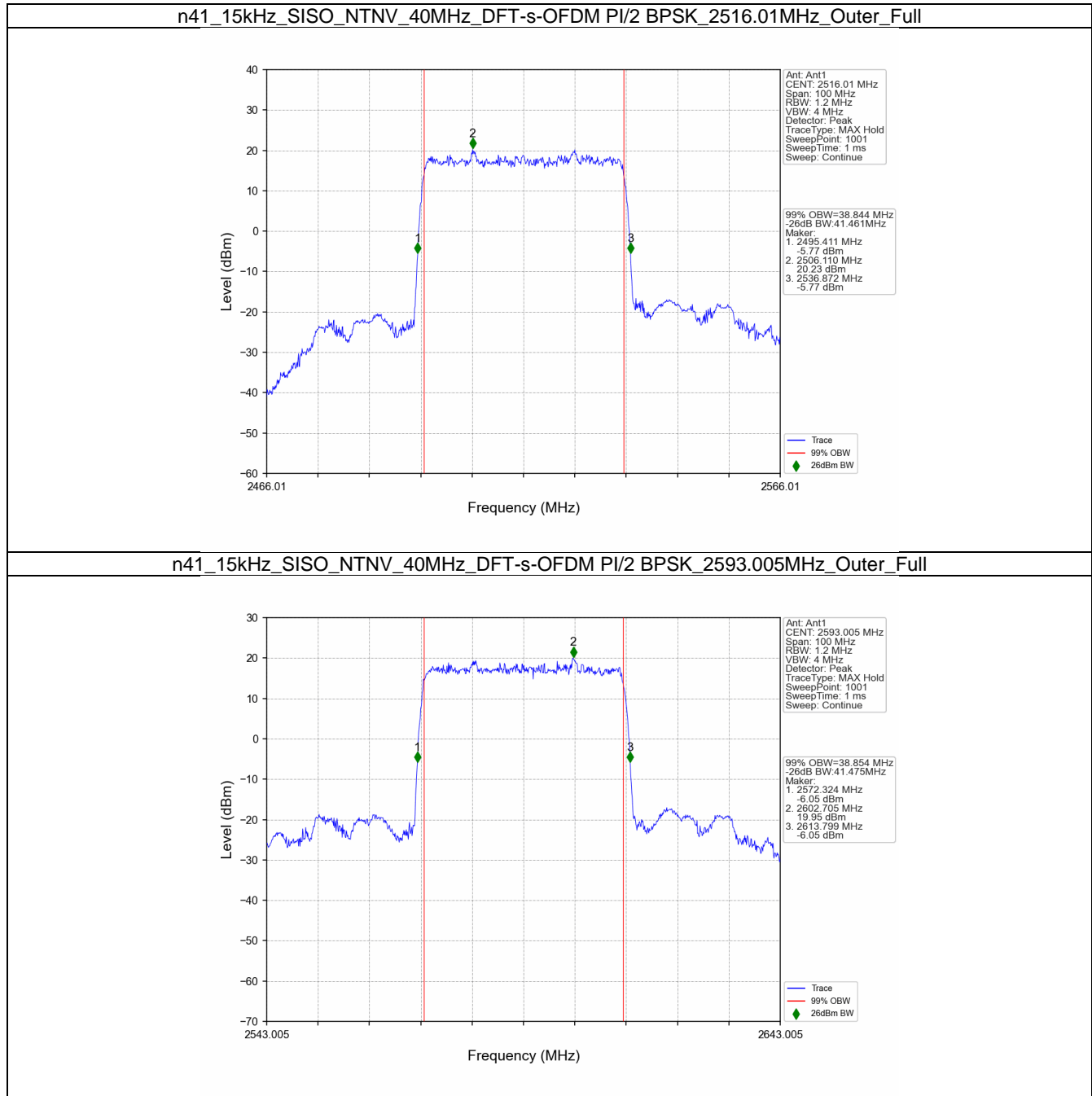


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4.6.2 Test Graph

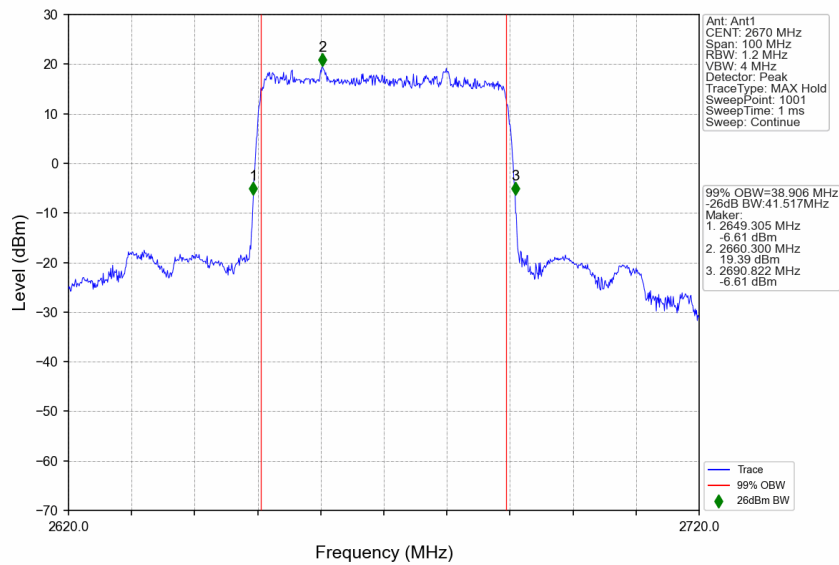


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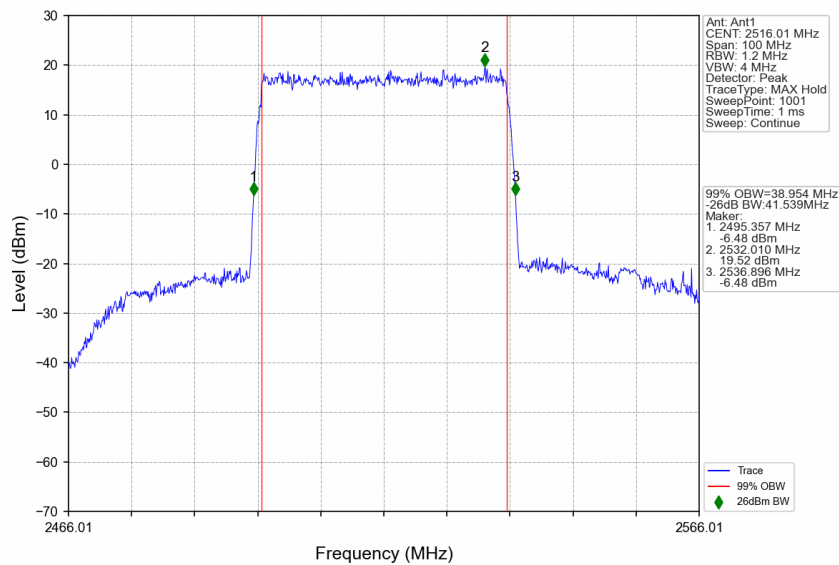
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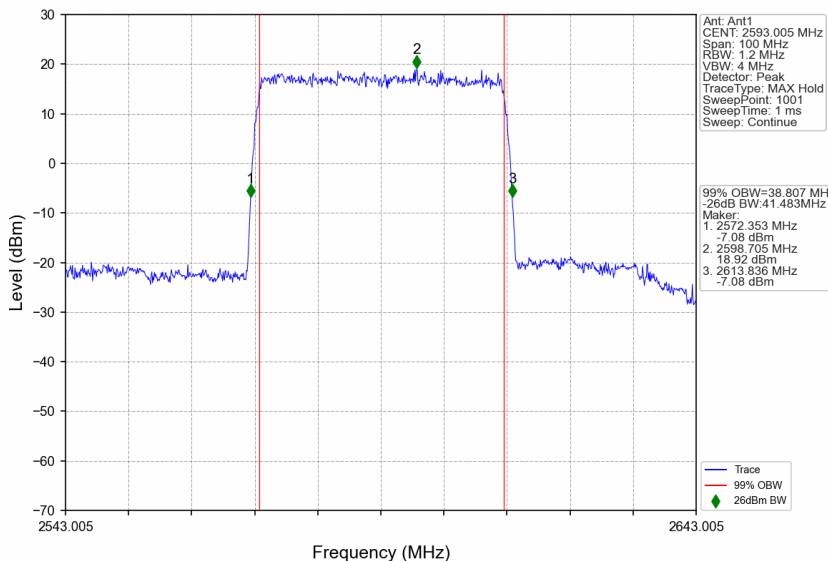
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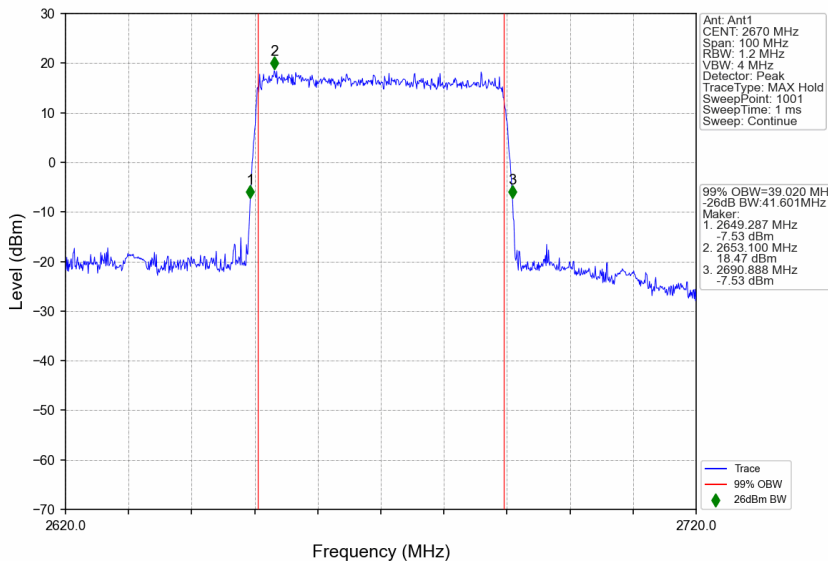
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n41_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2670MHz_Outer_Full

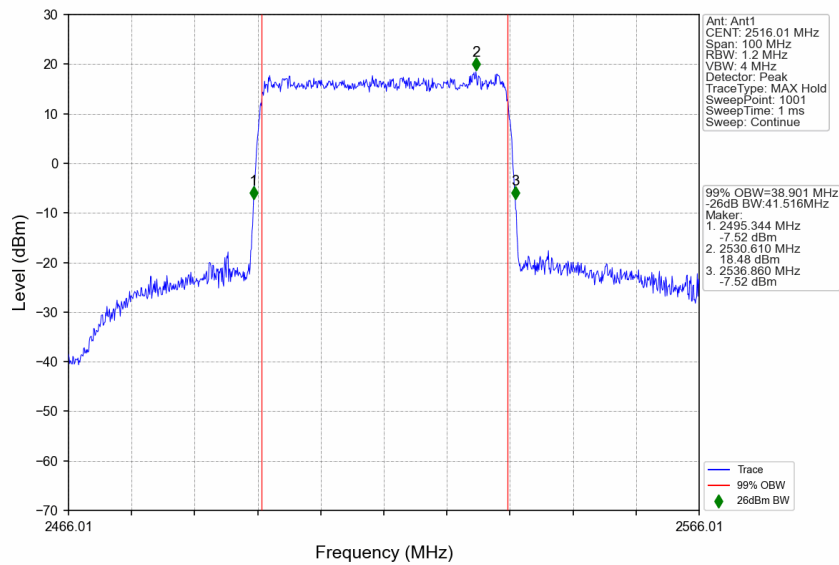


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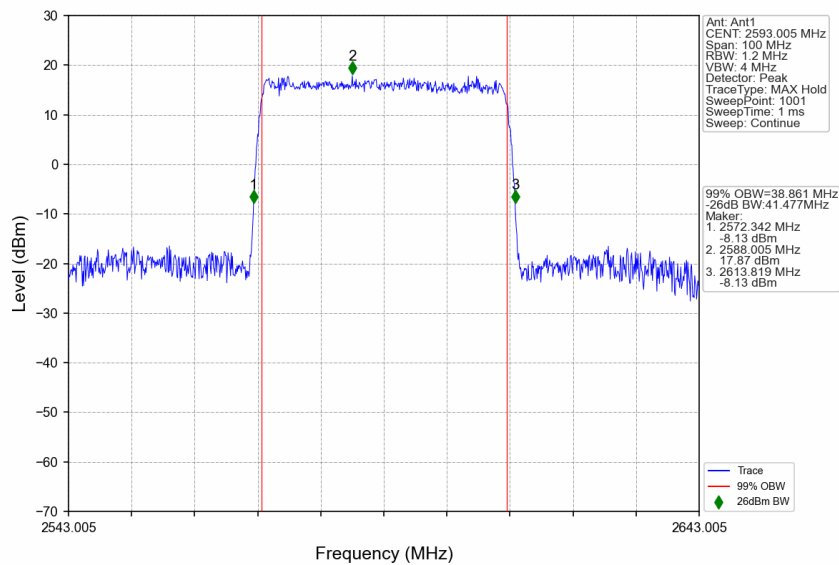
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n41_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_2516.01MHz_Outer_Full



n41_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_2593.005MHz_Outer_Full

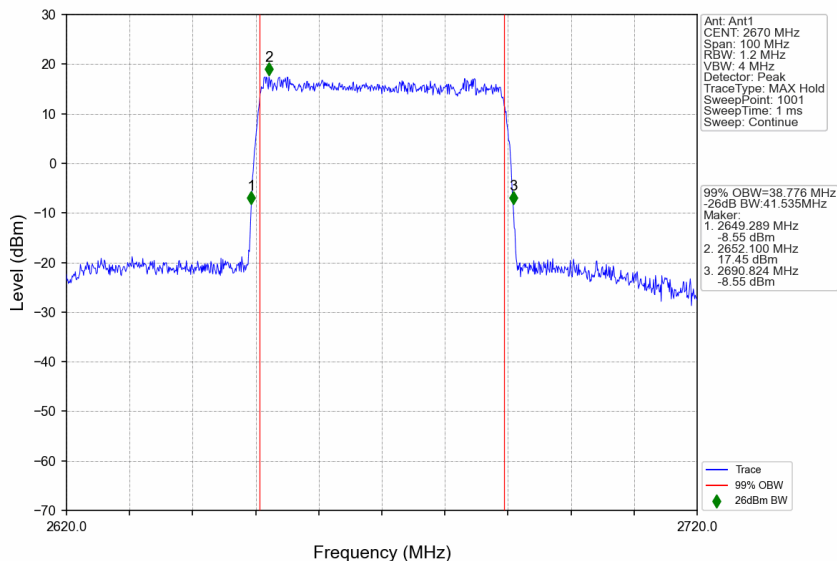


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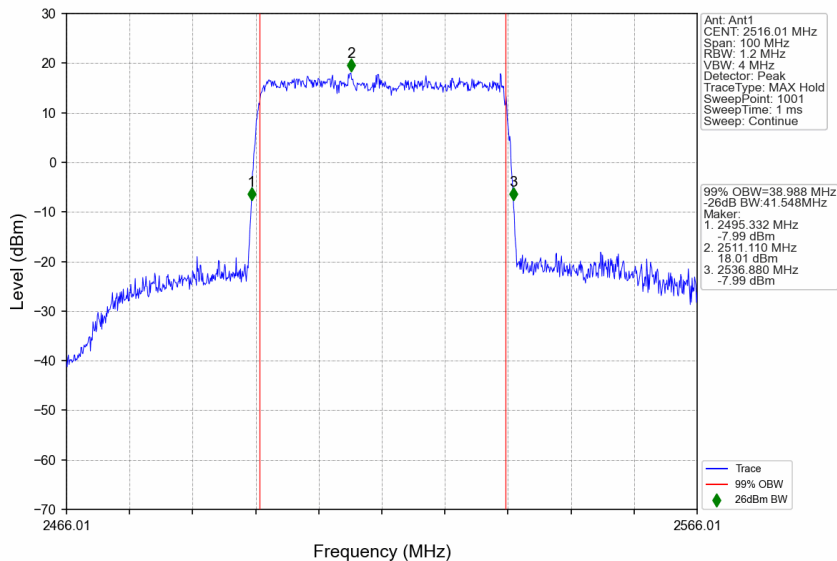
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n41_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_2670MHz_Outer_Full



n41_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_2516.01MHz_Outer_Full



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