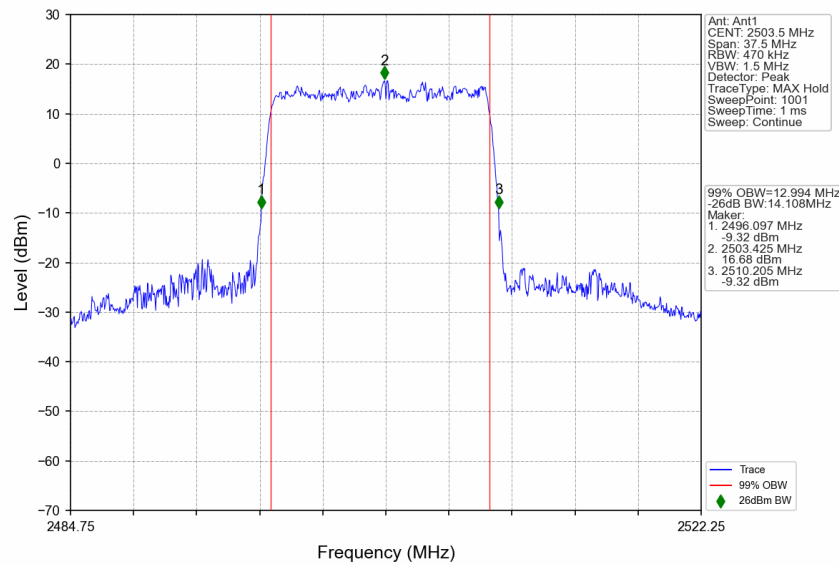
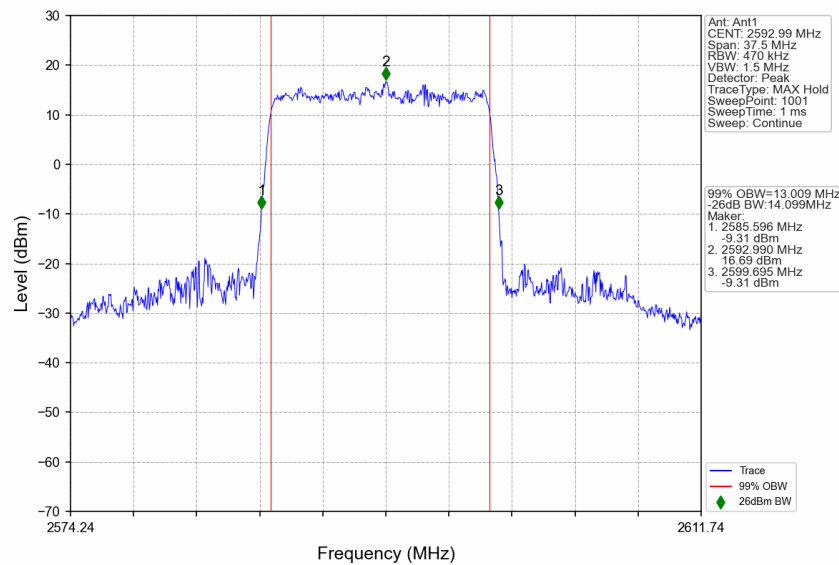


n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_2503.5MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_2592.99MHz_Outer_Full



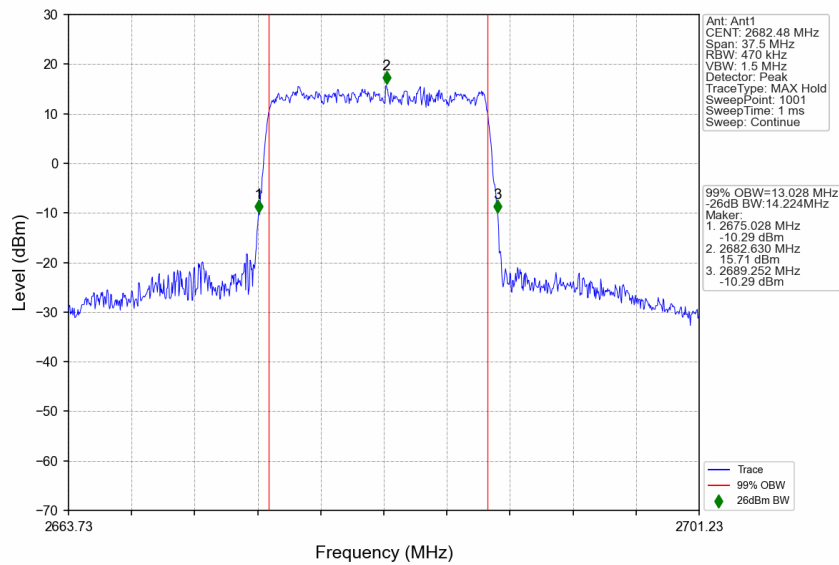
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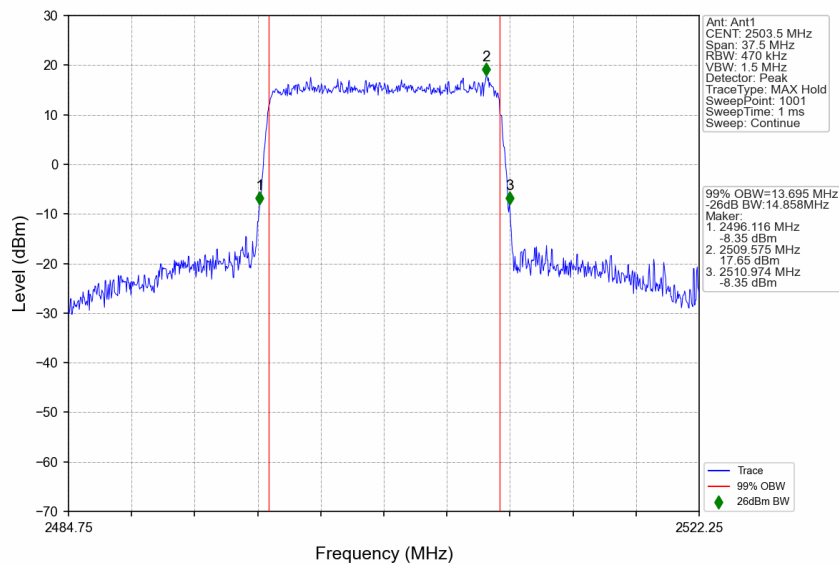
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n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_2682.48MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2503.5MHz_Outer_Full

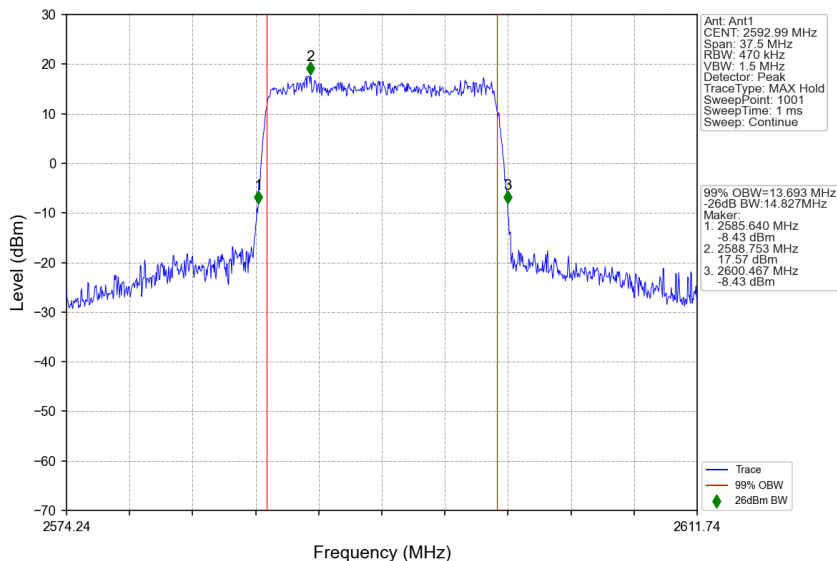


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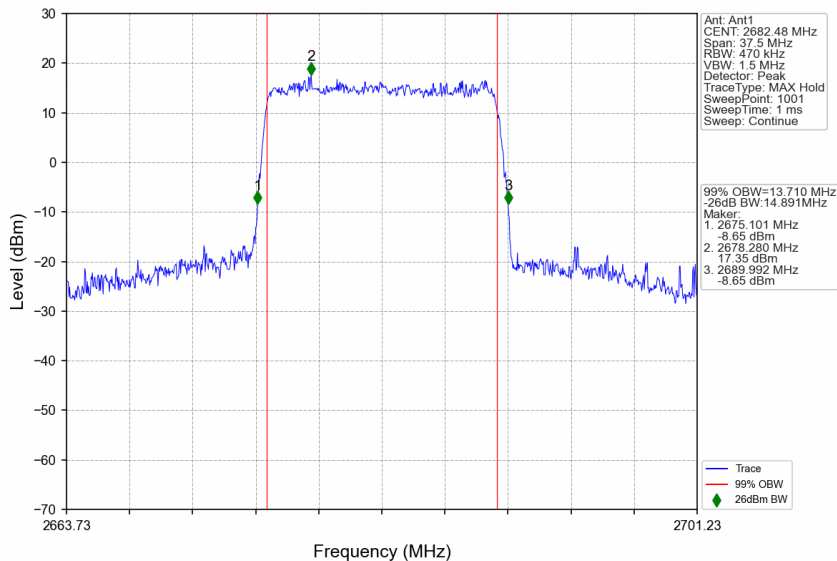
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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2592.99MHz_Outer_Full



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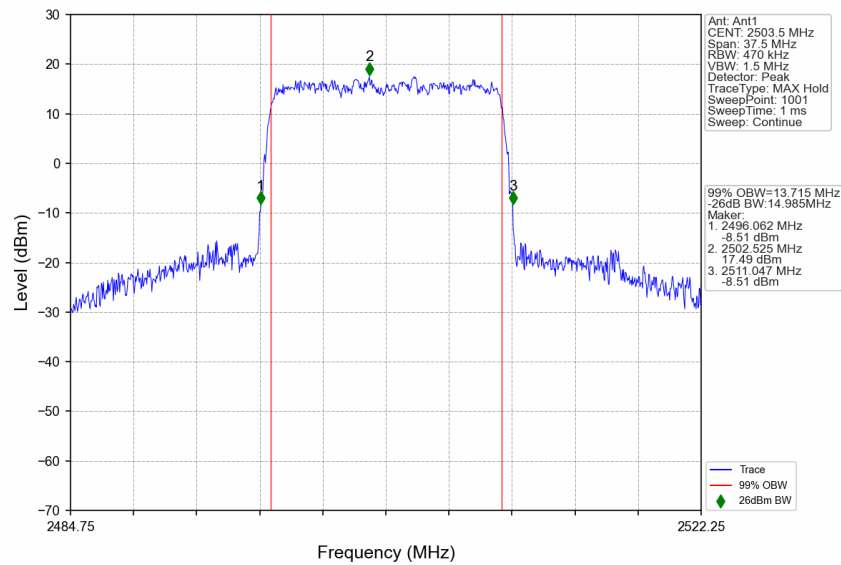


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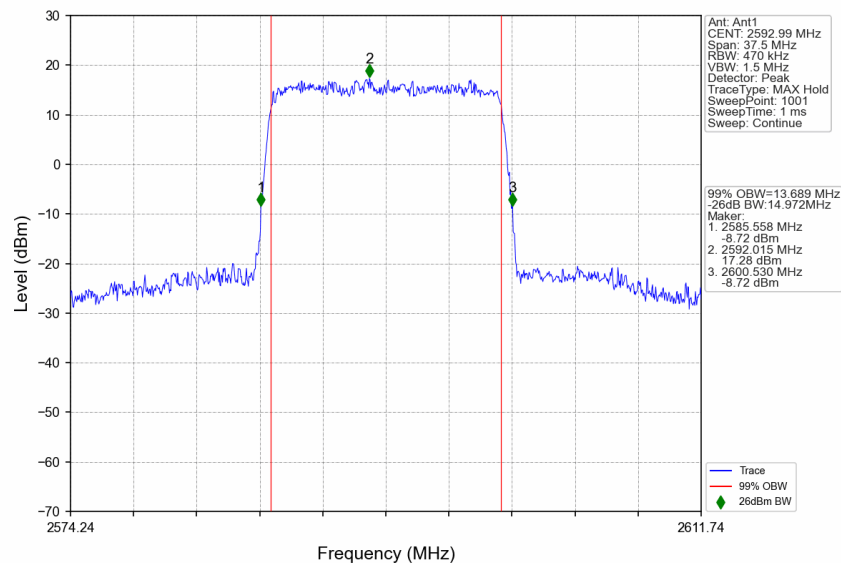
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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_2503.5MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_2592.99MHz_Outer_Full

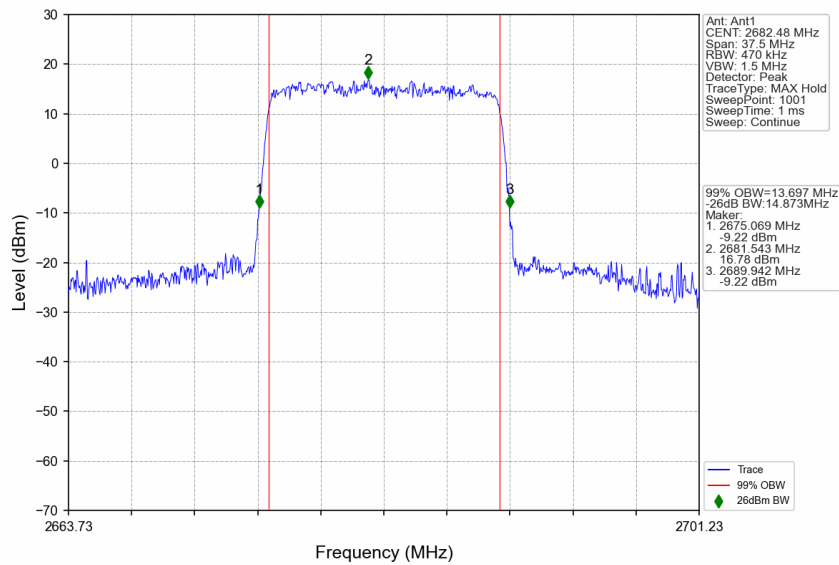


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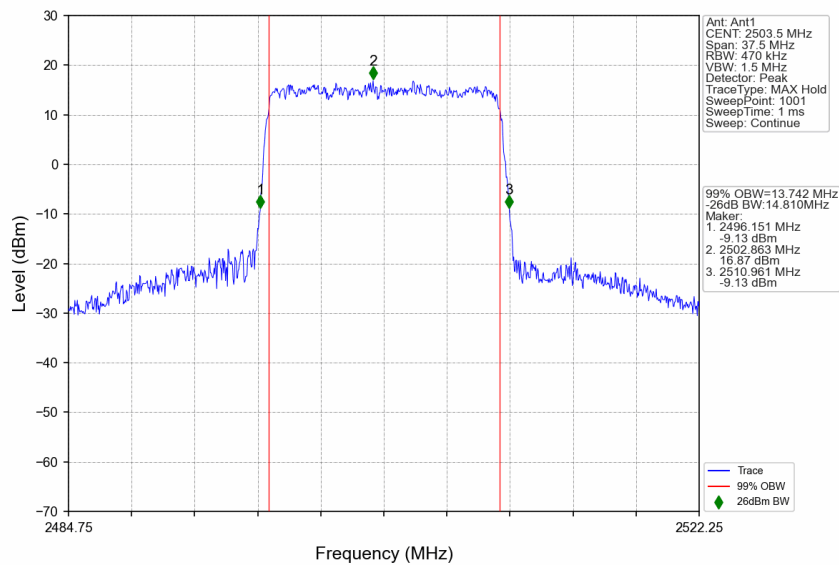
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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_2682.48MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2503.5MHz_Outer_Full

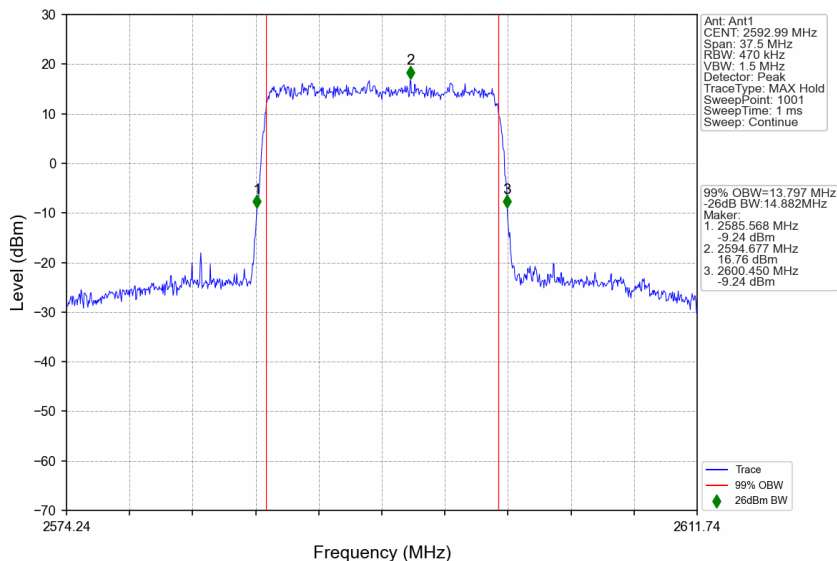


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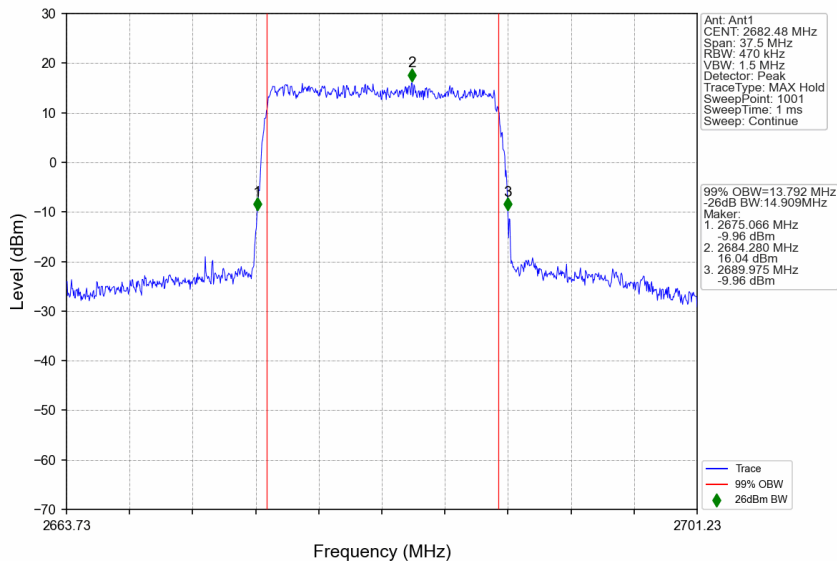
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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2592.99MHz_Outer_Full



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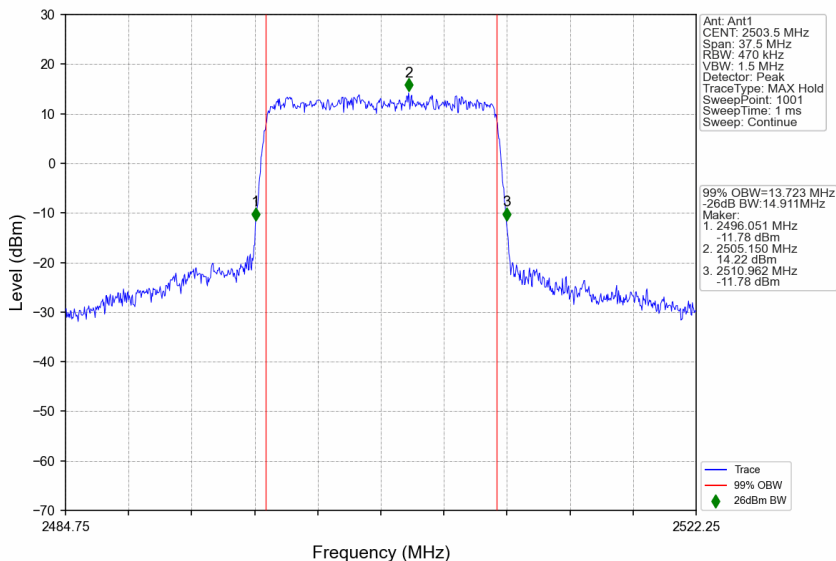


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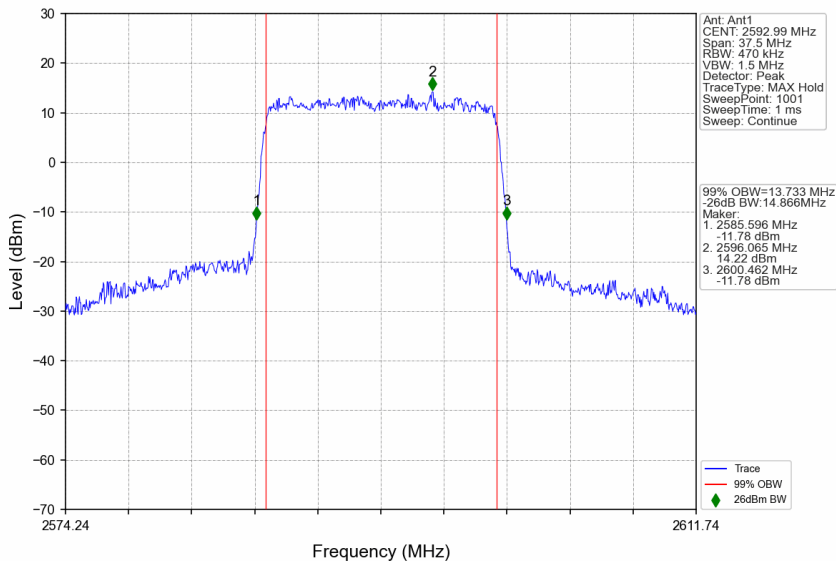
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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_2503.5MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_2592.99MHz_Outer_Full

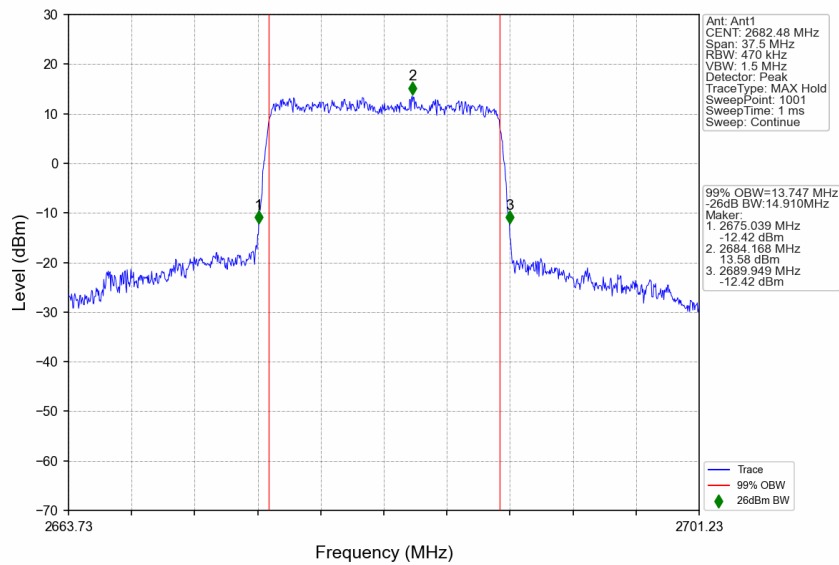


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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_2682.48MHz_Outer_Full



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4.10 30k_SISO_20MHz_NTNV

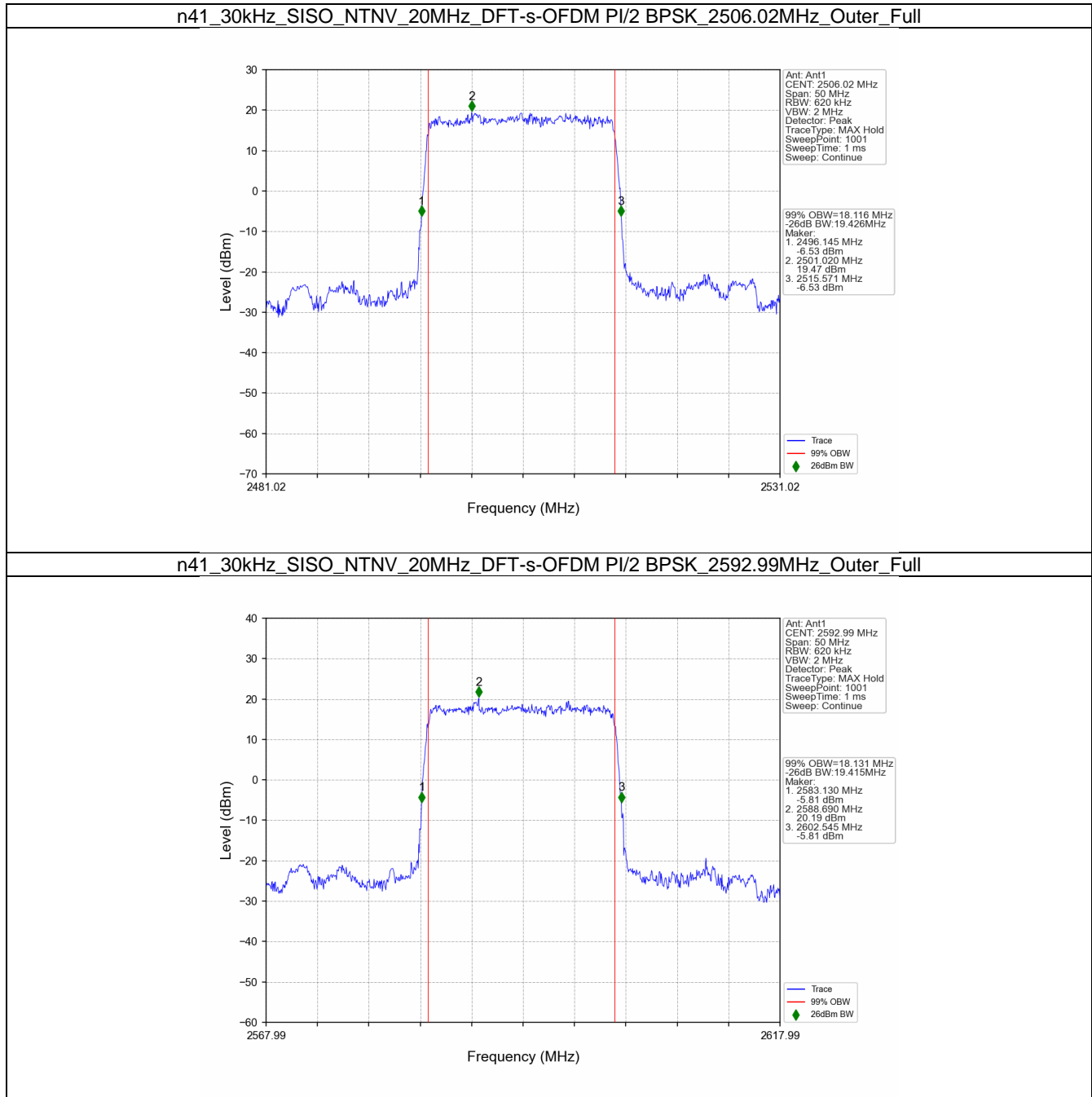
4.10.1 Test Result

Table with 7 columns: Modulation, Frequency (MHz), RB Allocation, 99% Bandwidth (MHz), 26dB Bandwidth (MHz), Limit (MHz), Verdict. Rows include various modulation schemes like DFT-s-OFDM PI/2 BPSK, DFT-s-OFDM QPSK, DFT-s-OFDM 16 QAM, DFT-s-OFDM 64 QAM, DFT-s-OFDM 256 QAM, CP-OFDM QPSK, CP-OFDM 16 QAM, CP-OFDM 64 QAM, and CP-OFDM 256 QAM.



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4.10.2 Test Graph

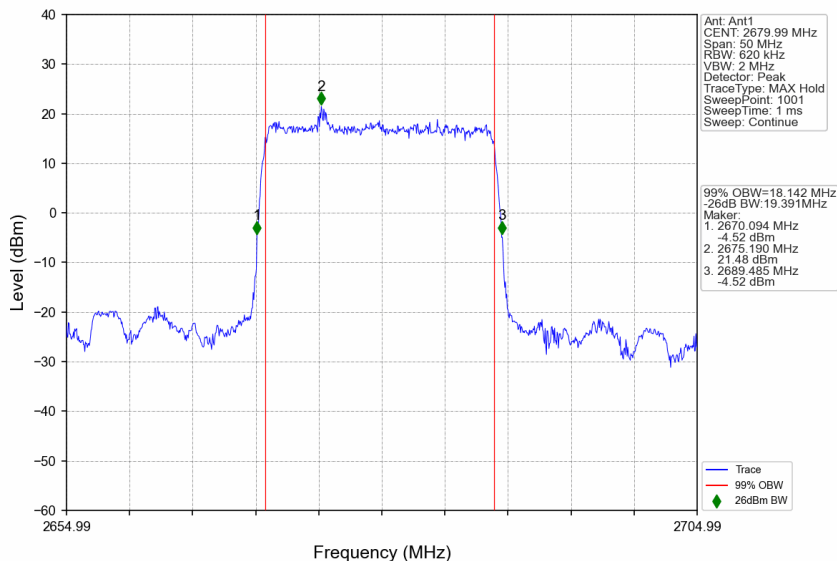


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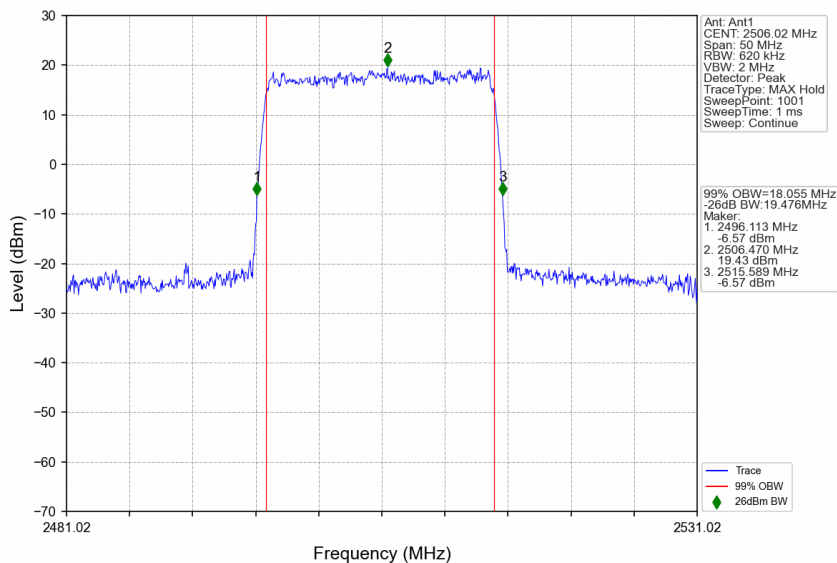
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2506.02MHz_Outer_Full



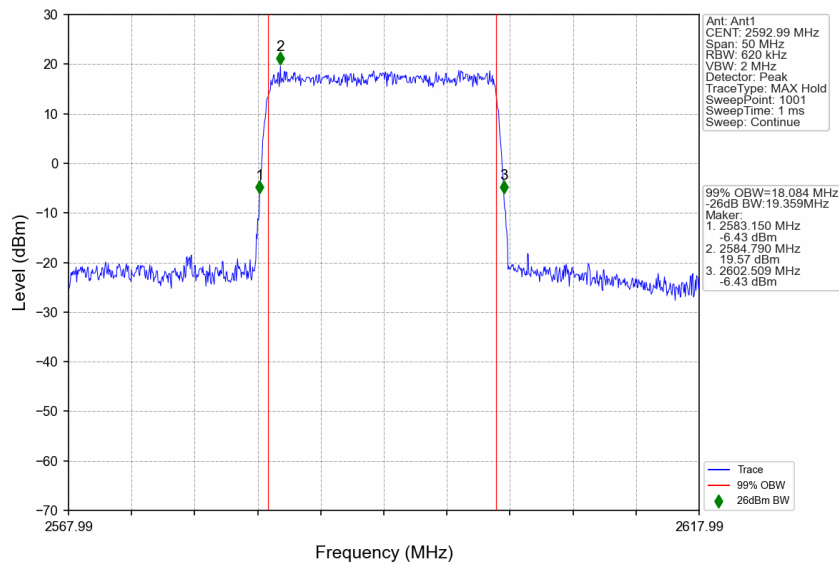
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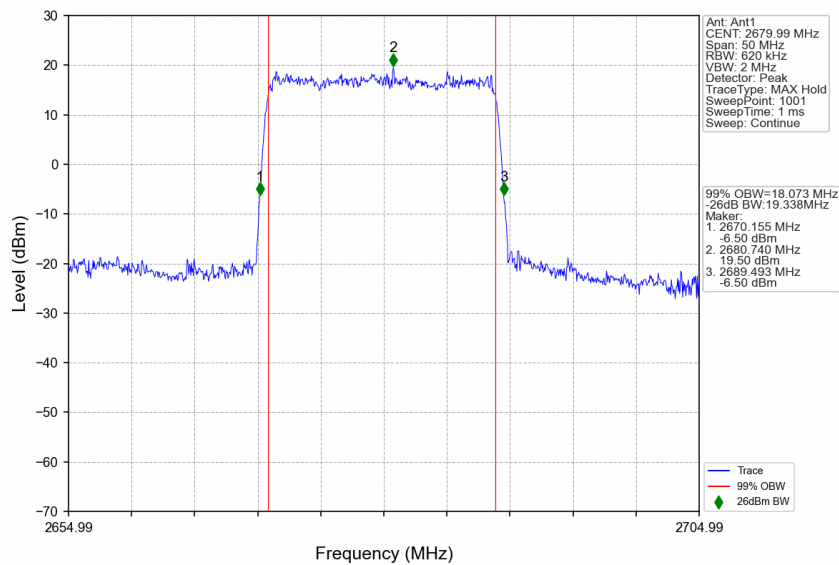
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2679.99MHz_Outer_Full



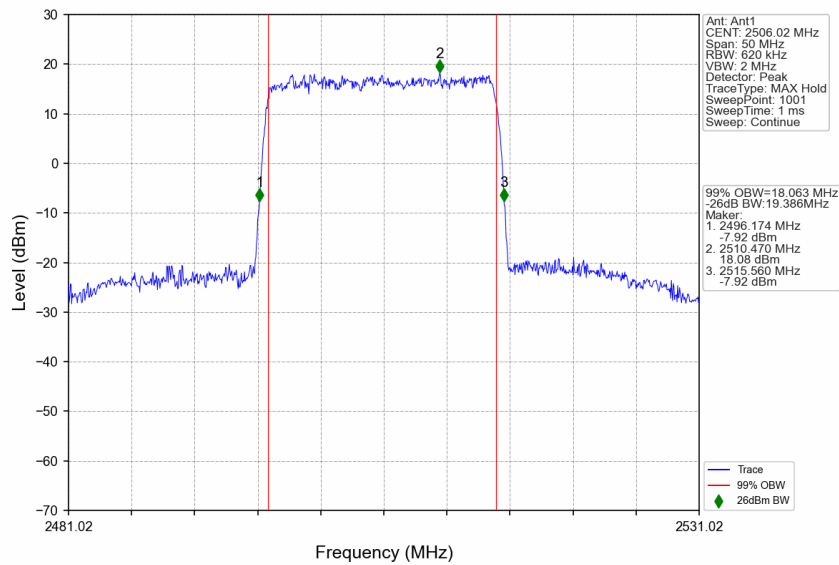
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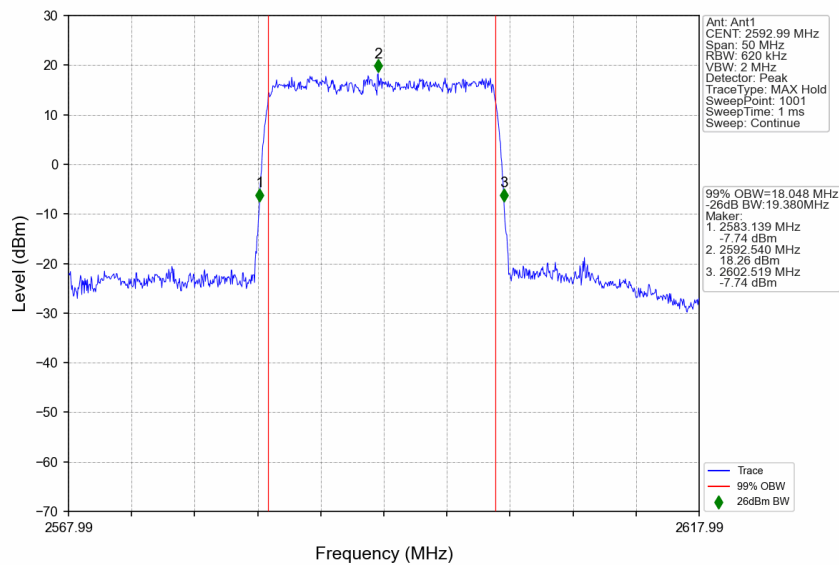
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_2506.02MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_2592.99MHz_Outer_Full

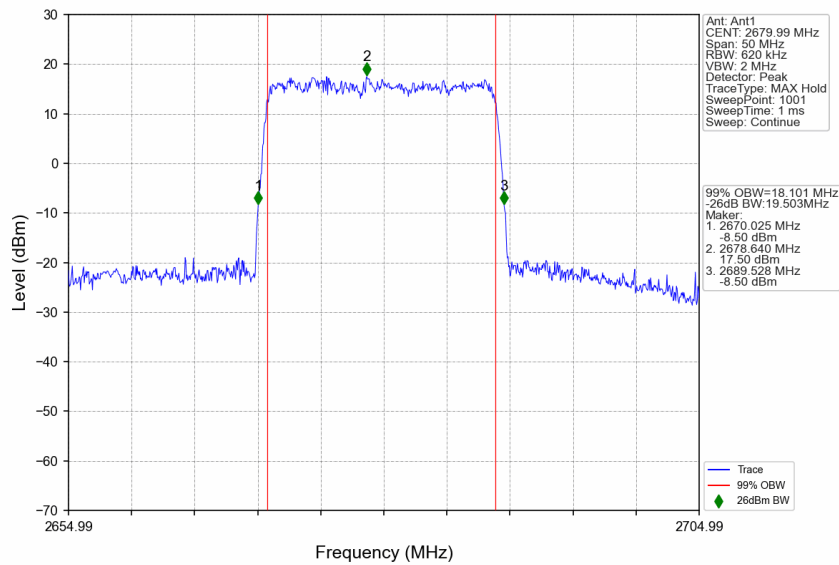


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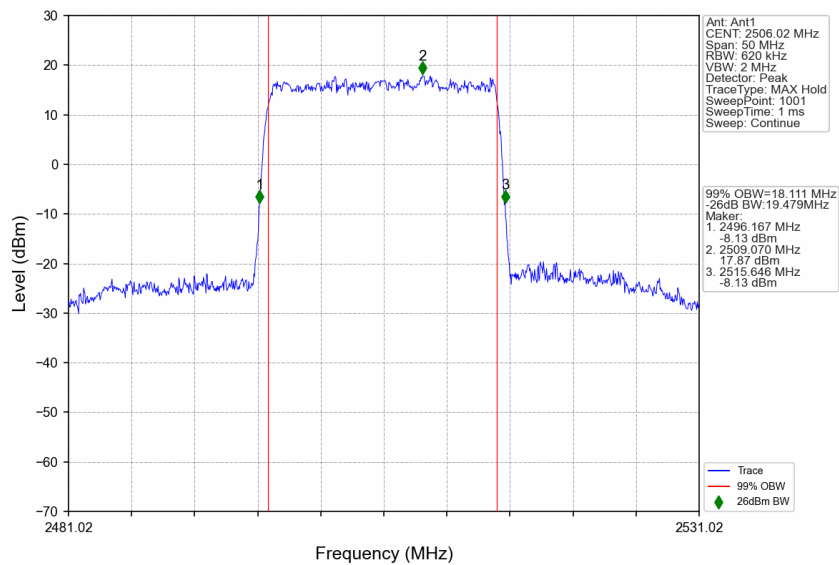
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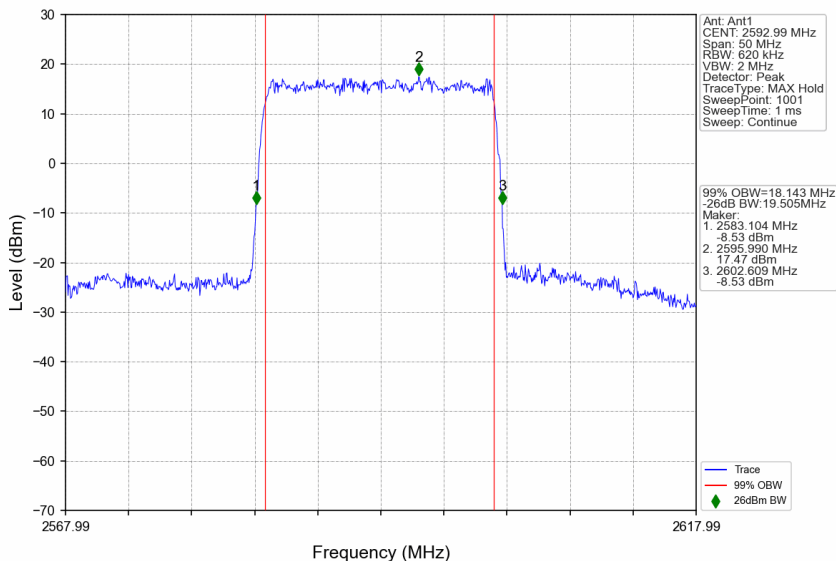


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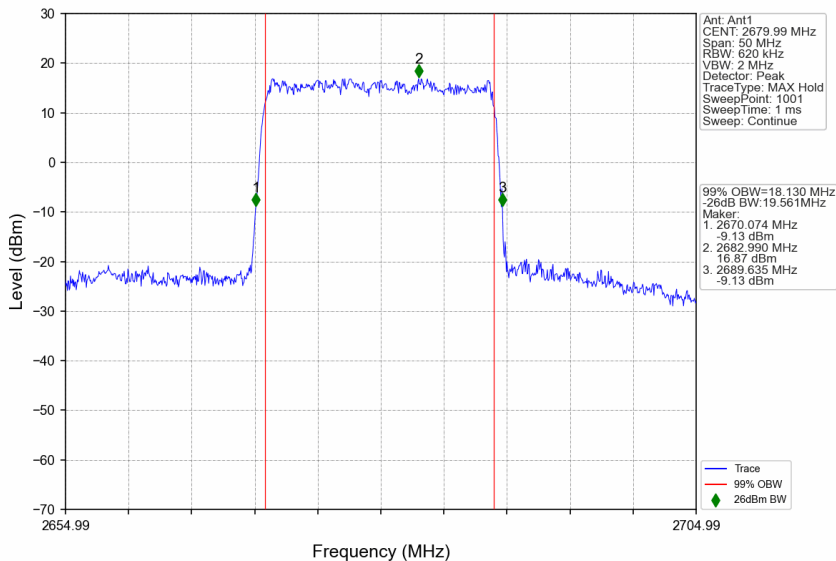
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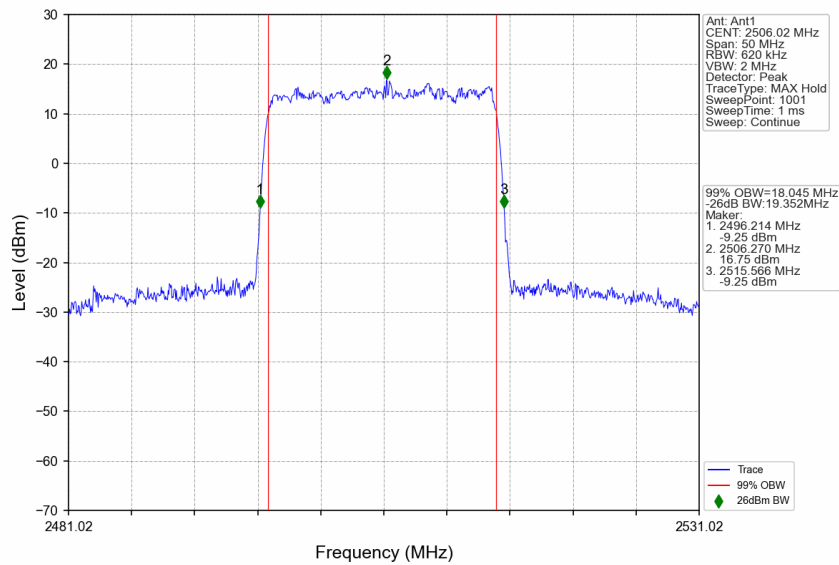


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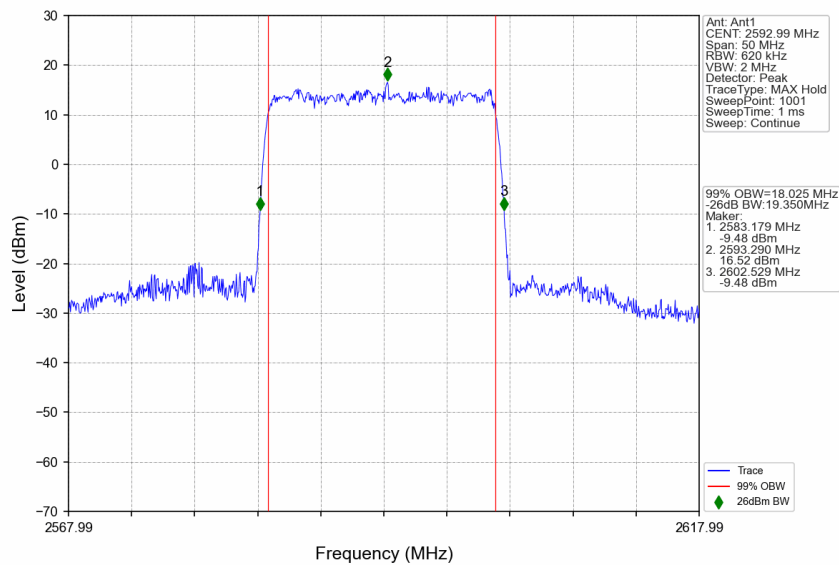
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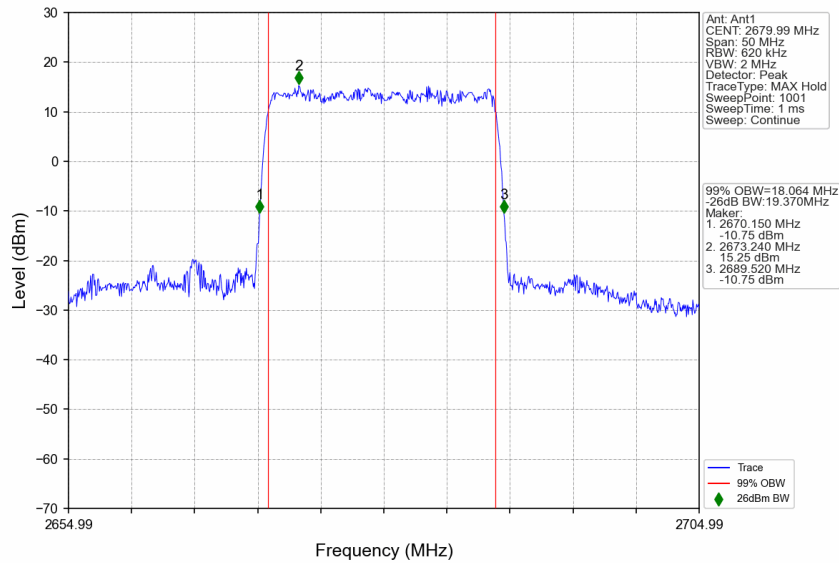


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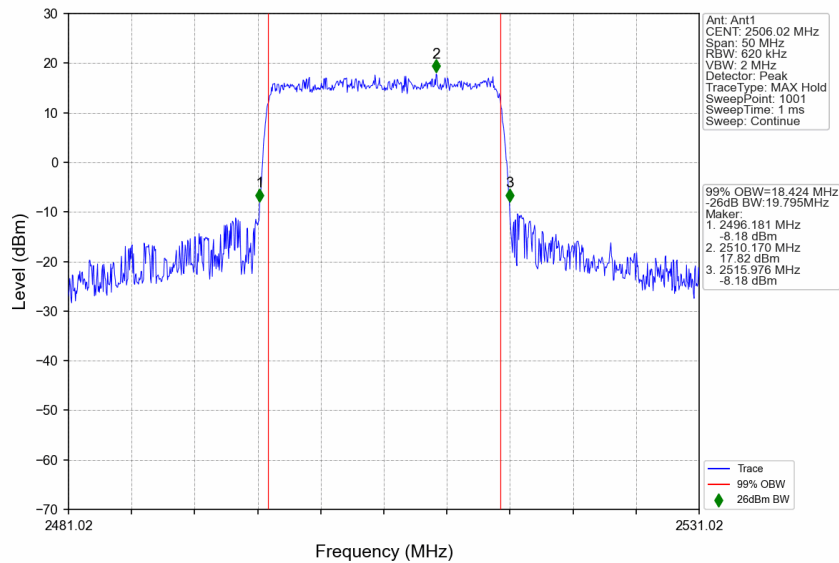
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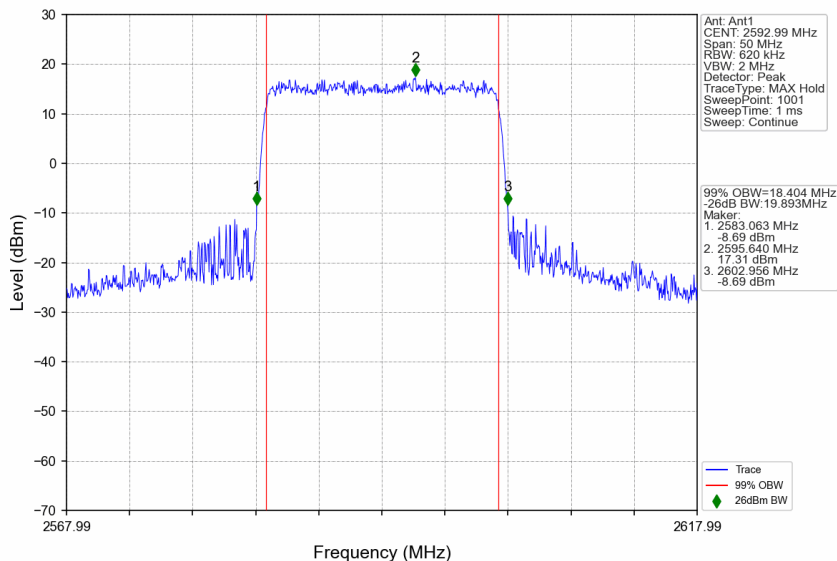


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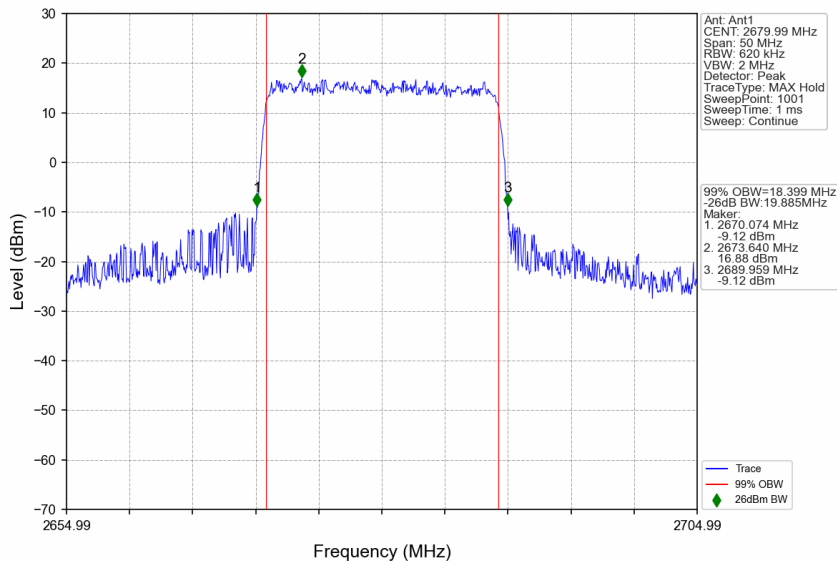
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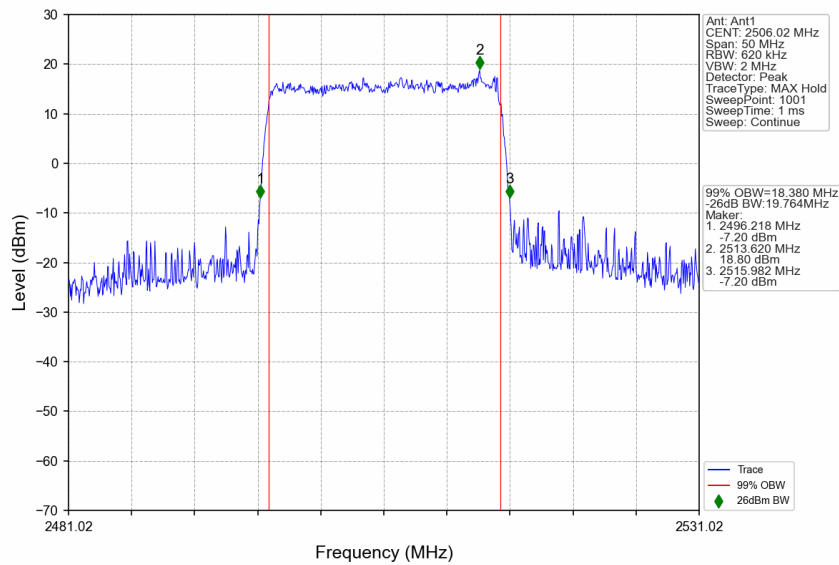


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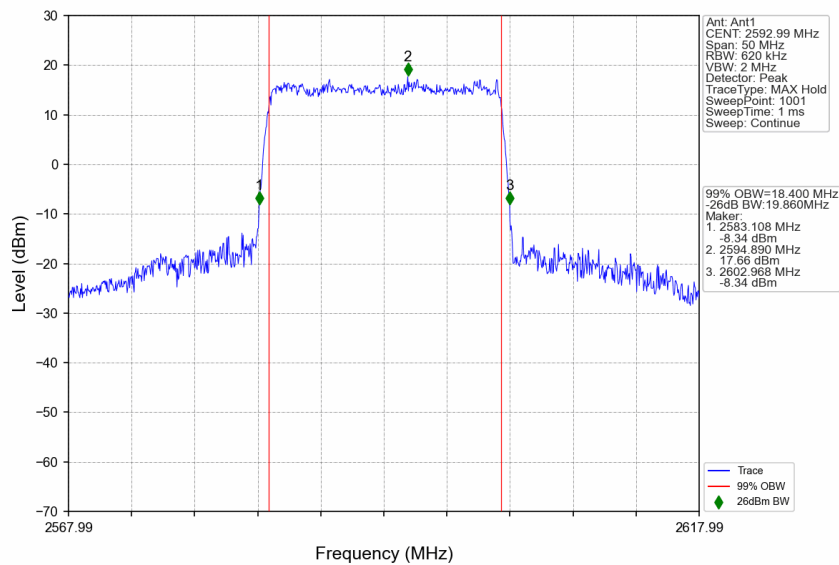
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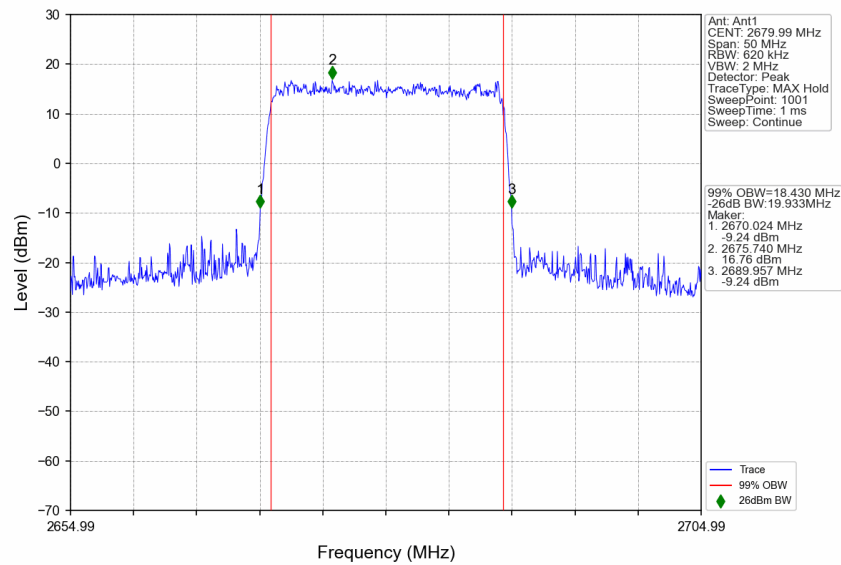


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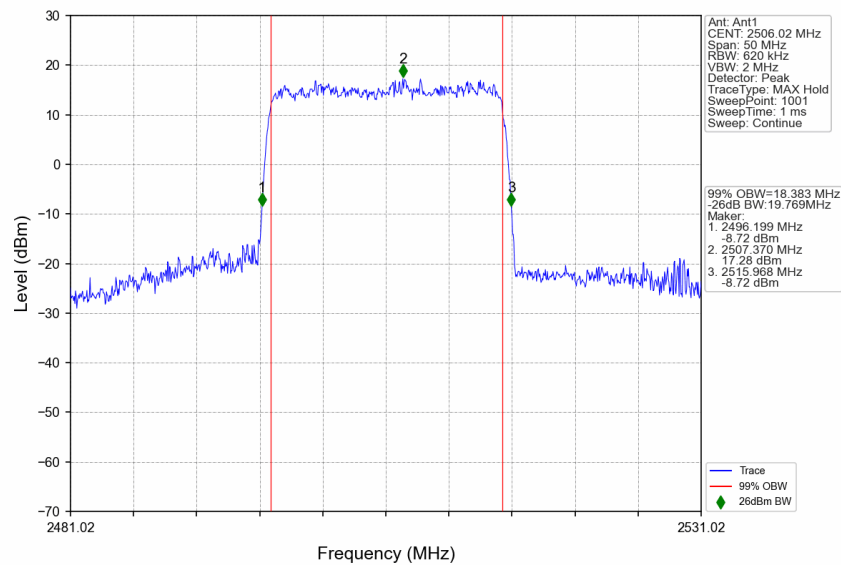
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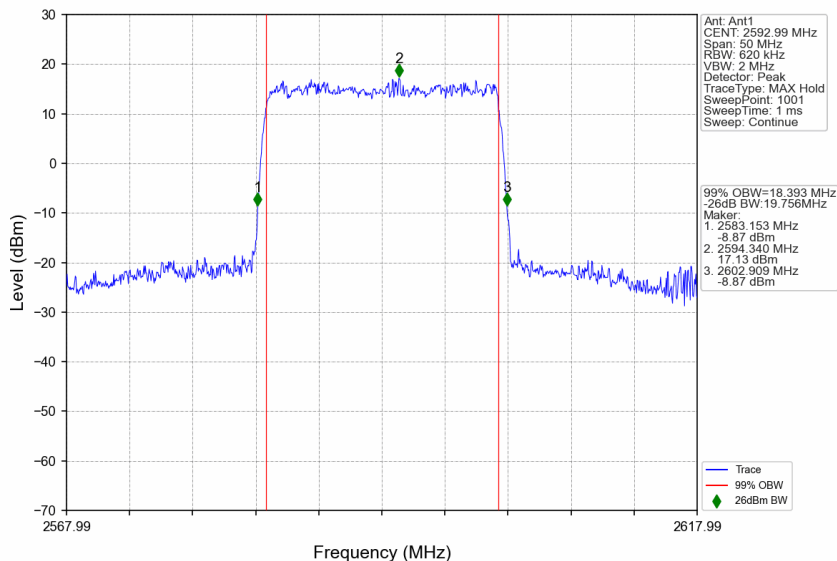


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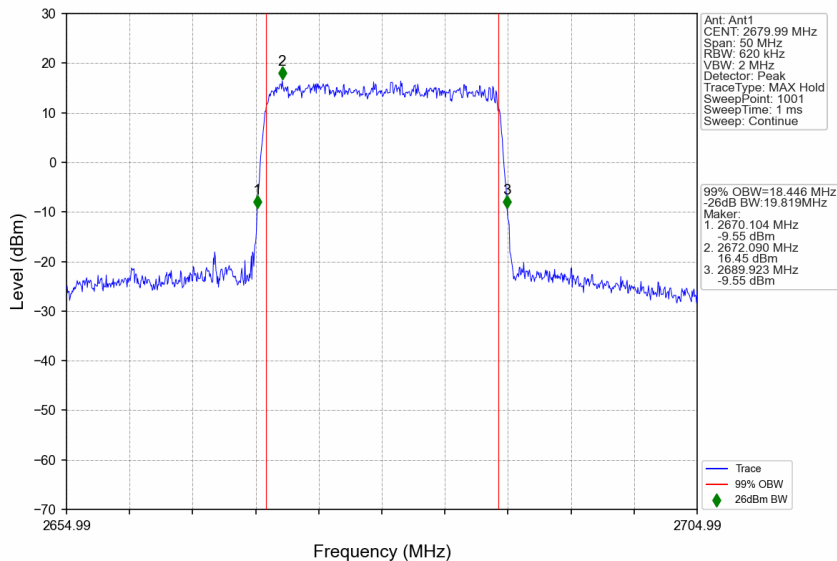
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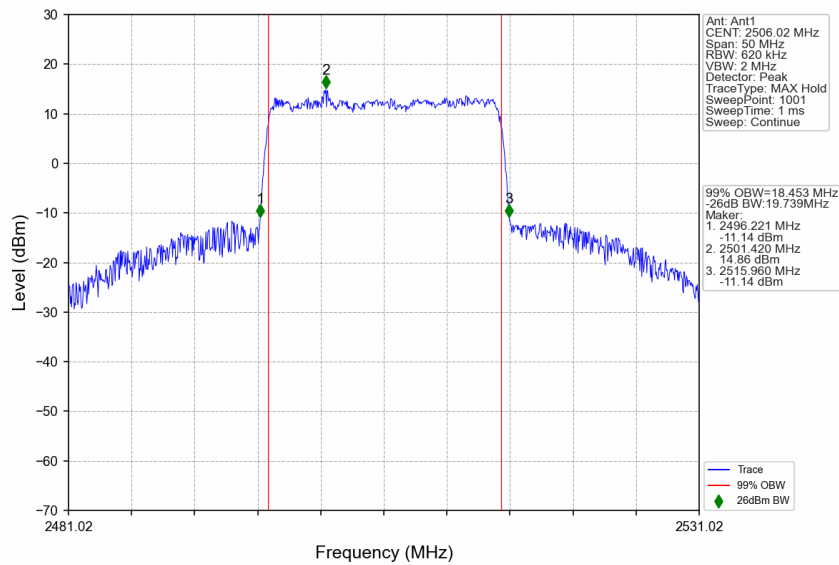


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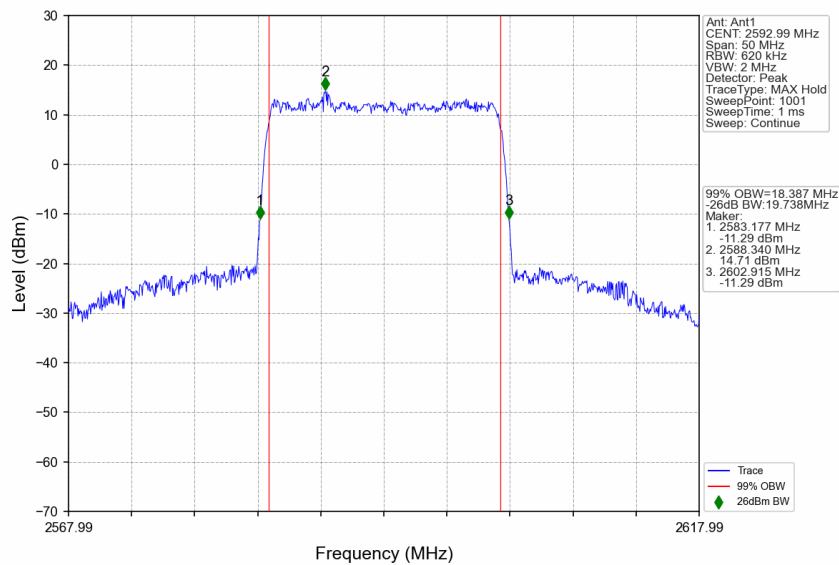
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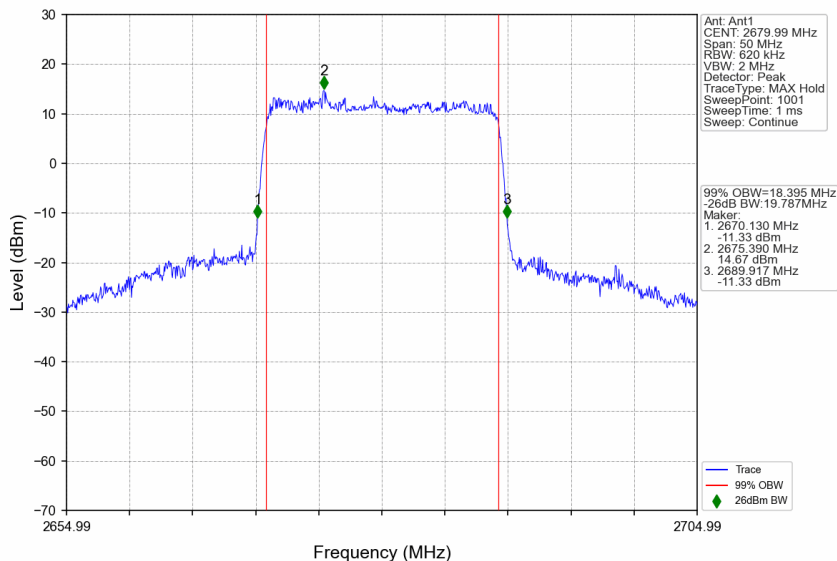


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4.11 30k_SISO_25MHz_NTNV

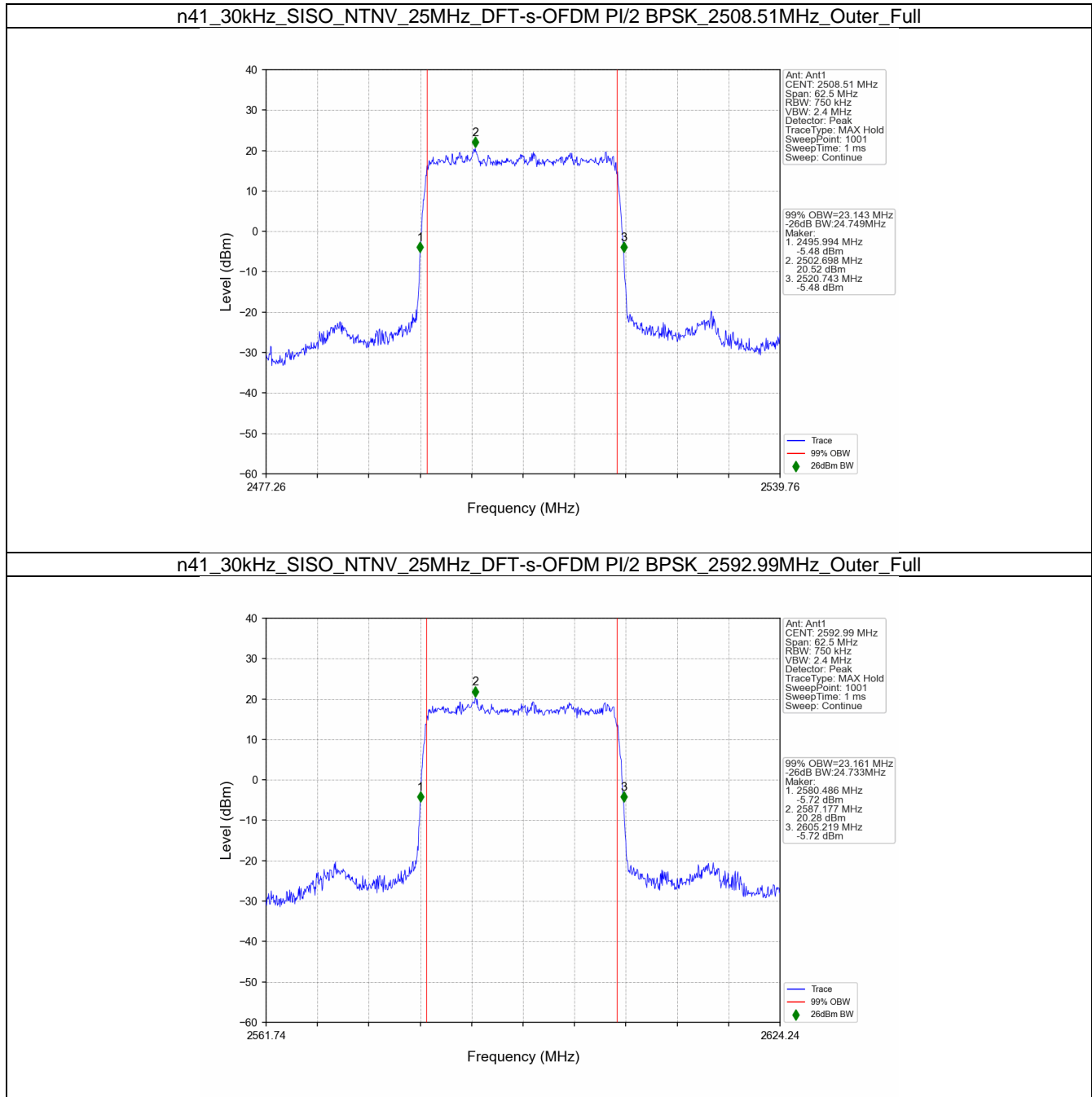
4.11.1 Test Result

Table with 7 columns: Modulation, Frequency (MHz), RB Allocation, 99% Bandwidth (MHz), 26dB Bandwidth (MHz), Limit (MHz), Verdict. Rows include various modulation schemes like DFT-s-OFDM PI/2 BPSK, DFT-s-OFDM QPSK, DFT-s-OFDM 16 QAM, DFT-s-OFDM 64 QAM, DFT-s-OFDM 256 QAM, CP-OFDM QPSK, CP-OFDM 16 QAM, CP-OFDM 64 QAM, and CP-OFDM 256 QAM.



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4.11.2 Test Graph

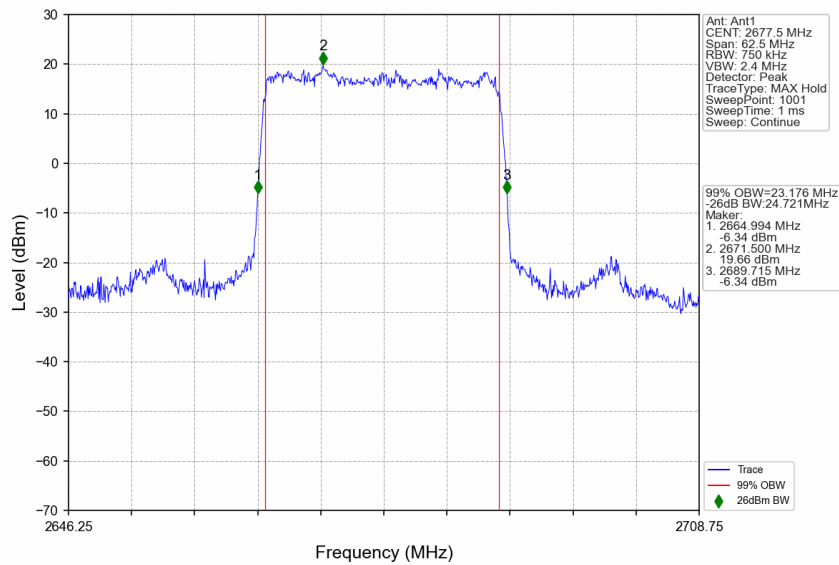


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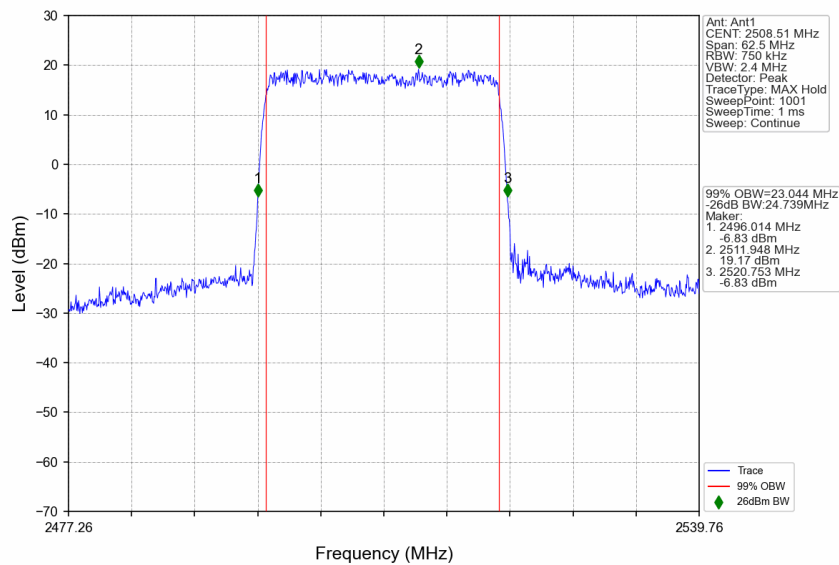
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n41_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_2677.5MHz_Outer_Full



n41_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2508.51MHz_Outer_Full

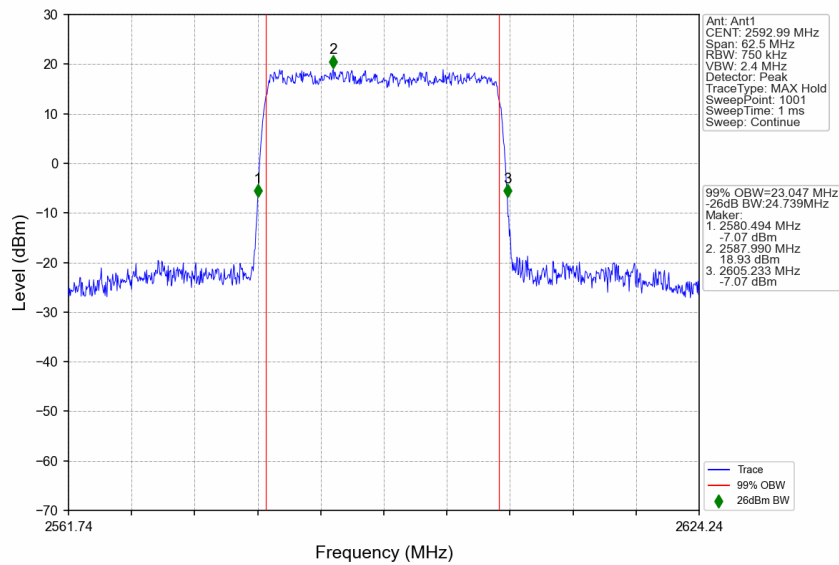


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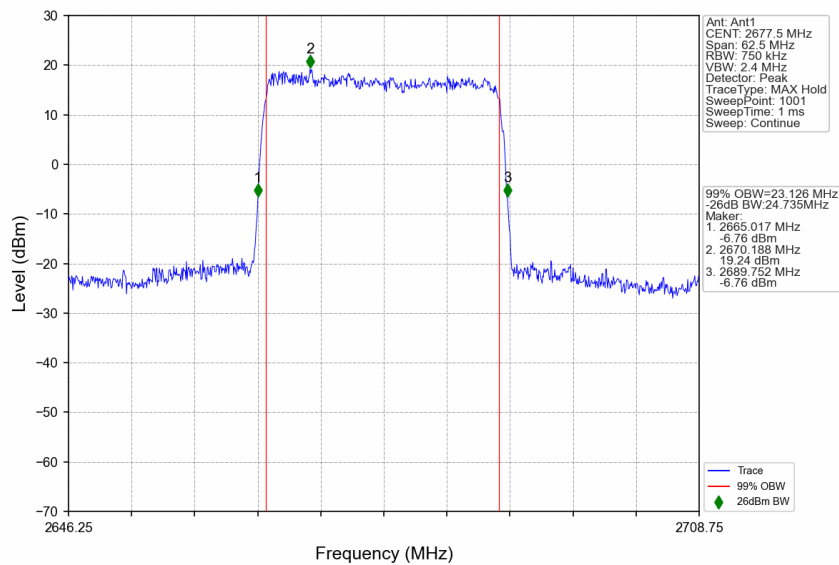
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n41_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2592.99MHz_Outer_Full



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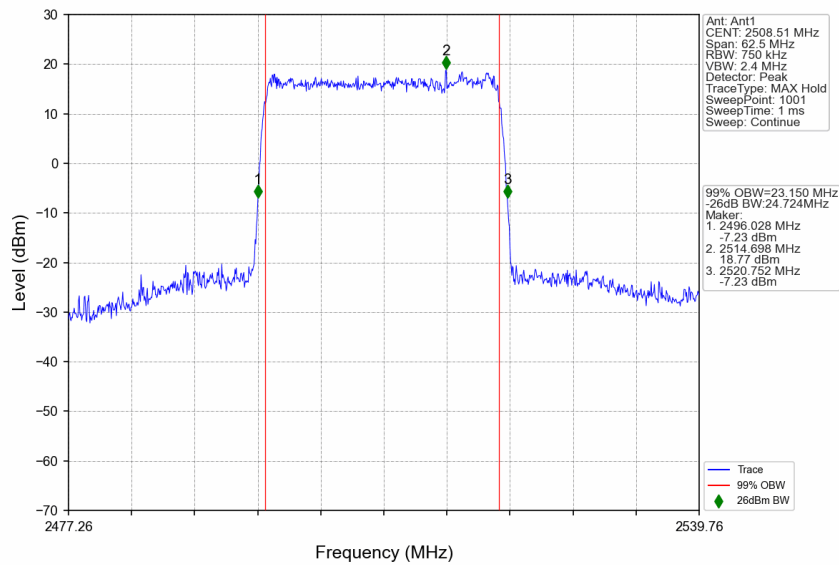
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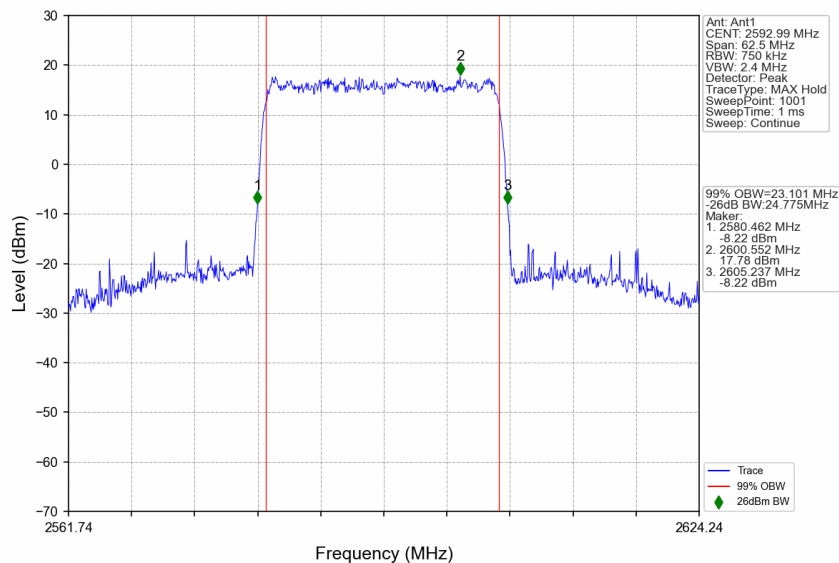
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n41_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 16 QAM_2508.51MHz_Outer_Full



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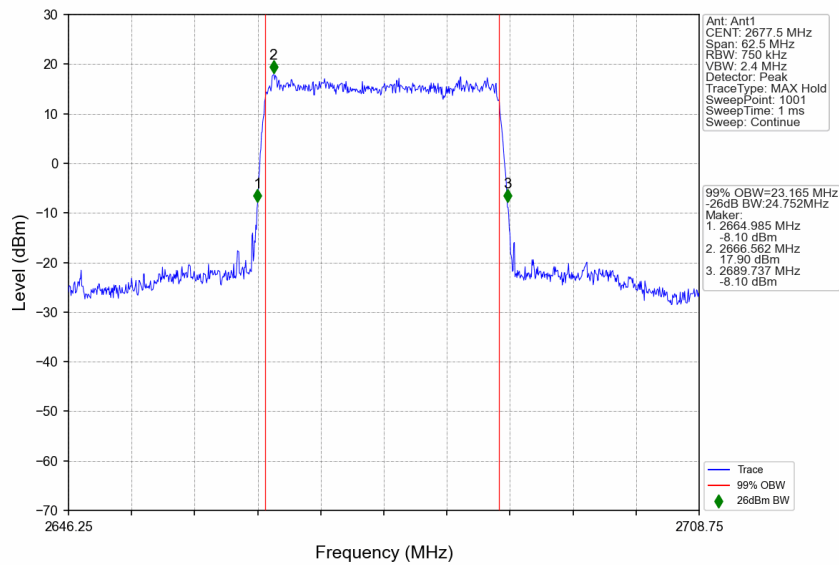


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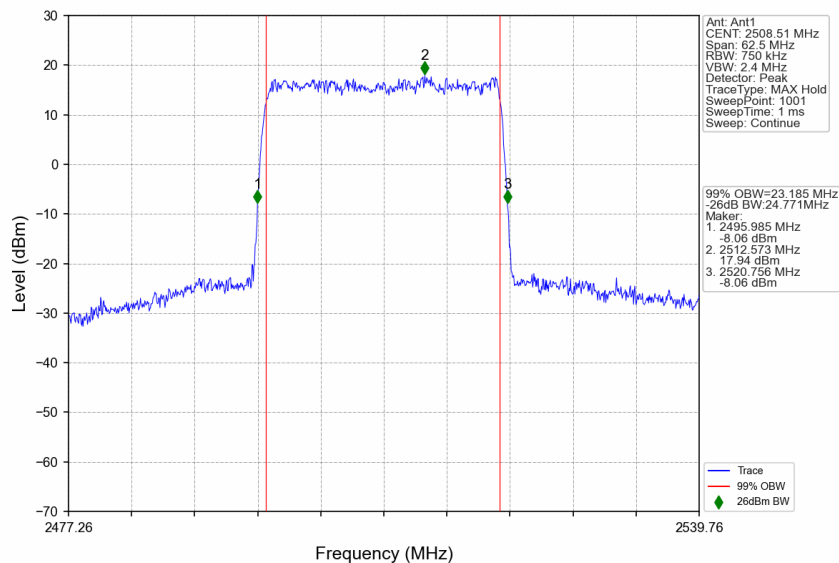
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n41_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_2508.51MHz_Outer_Full

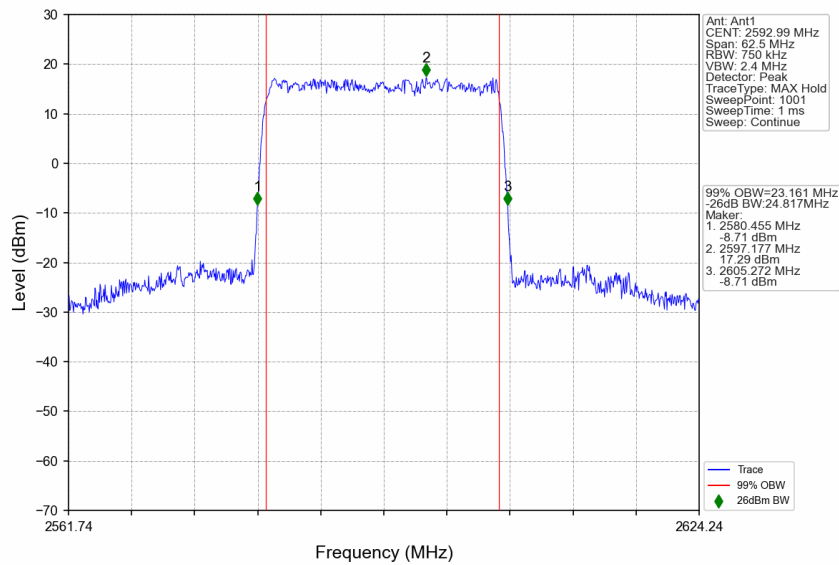


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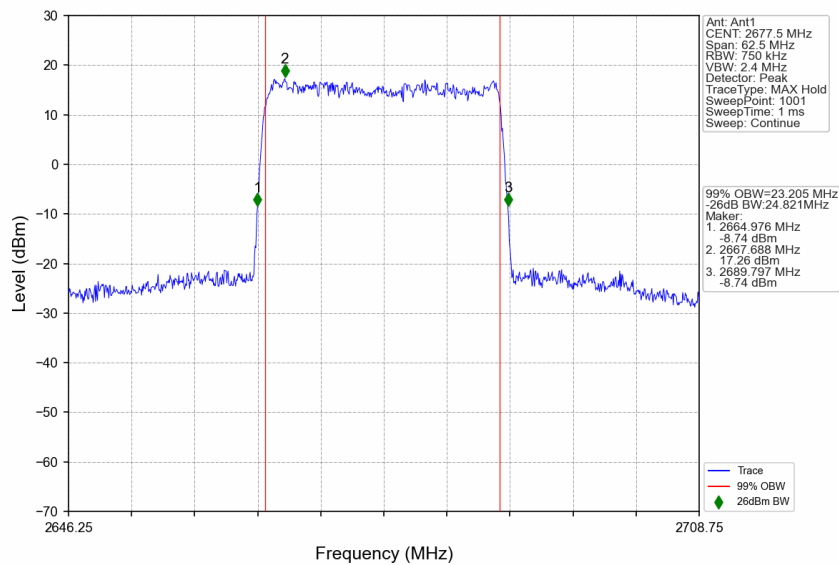
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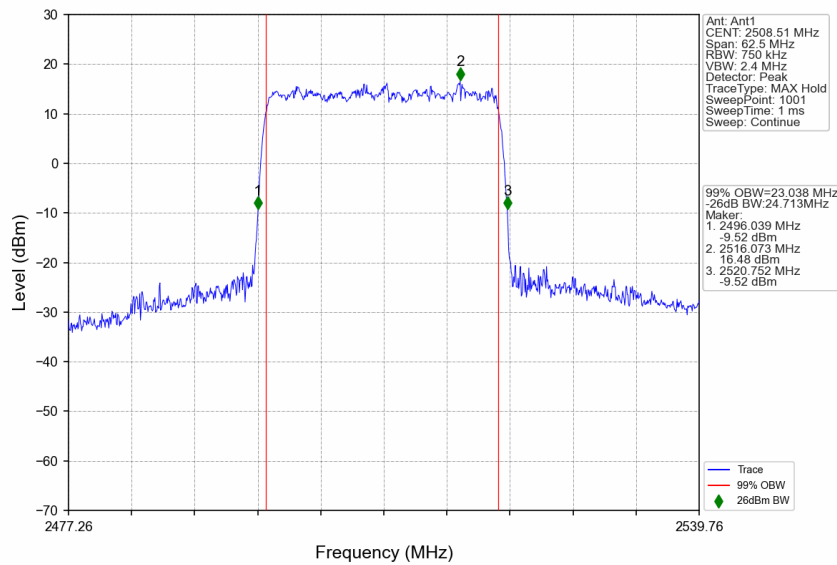


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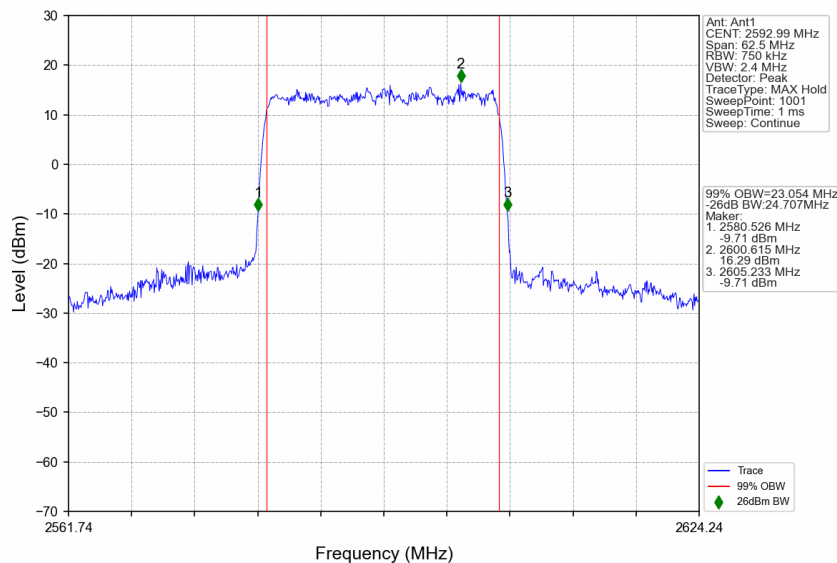
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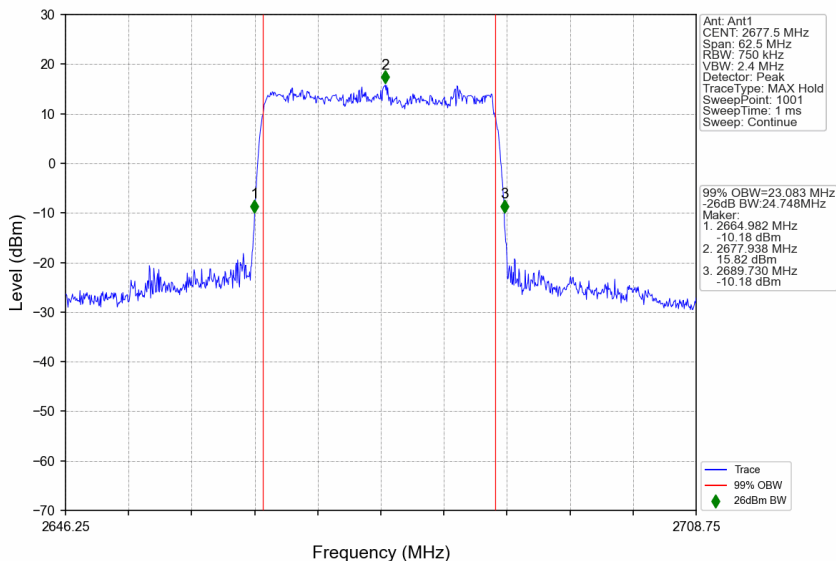


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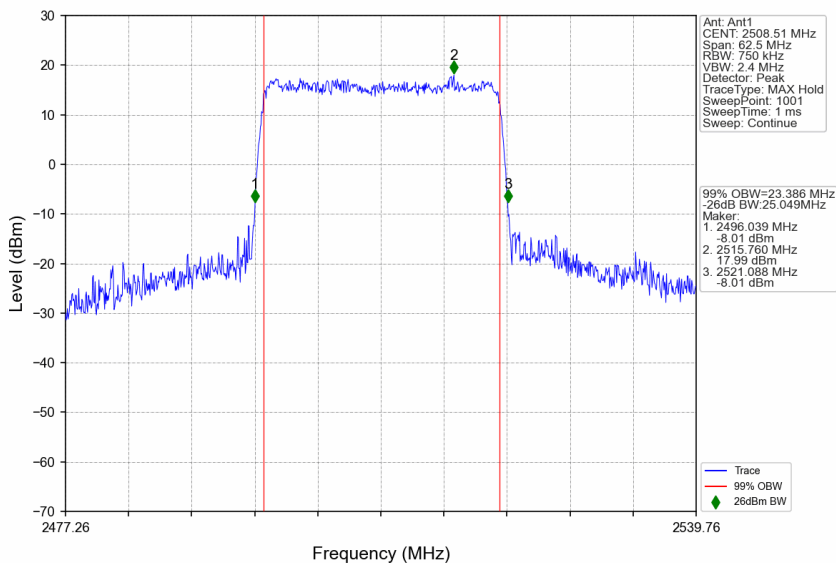
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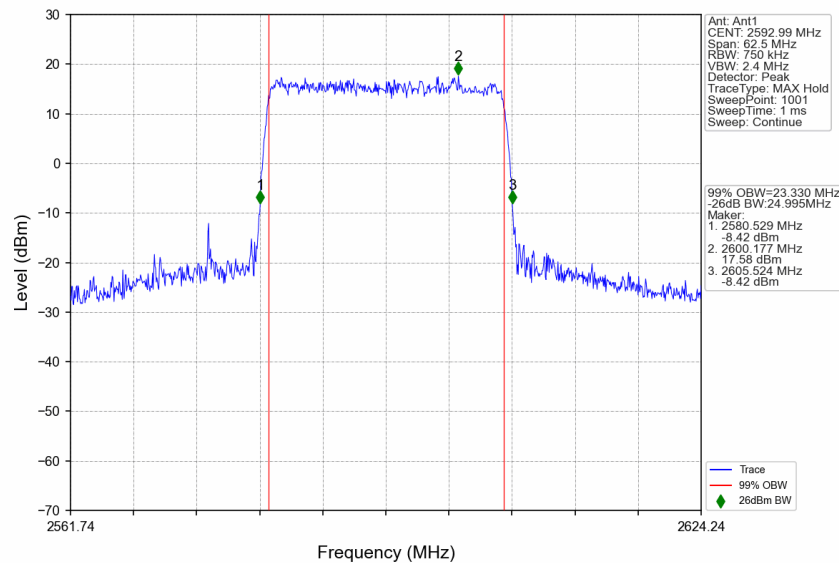
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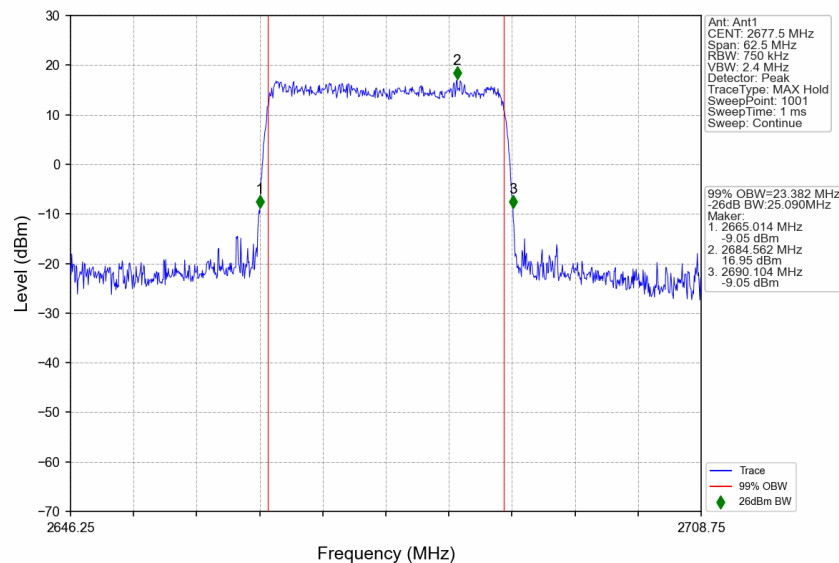
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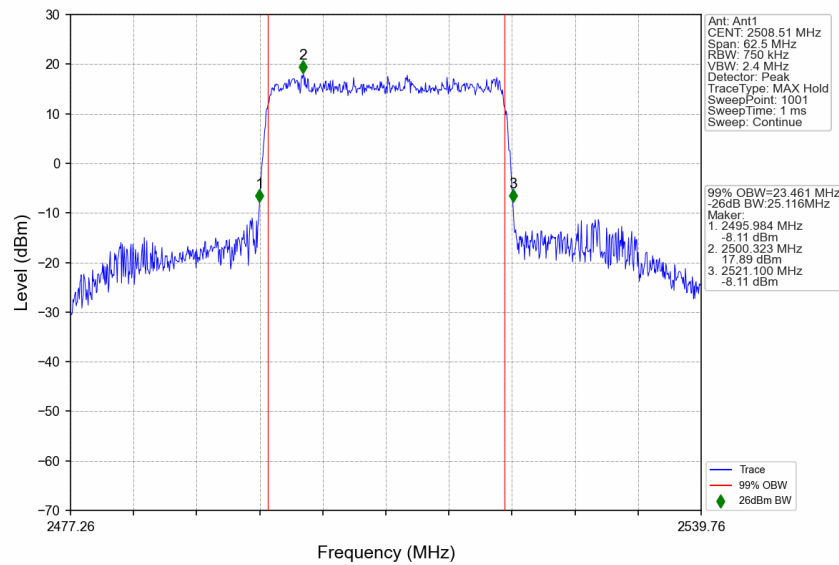


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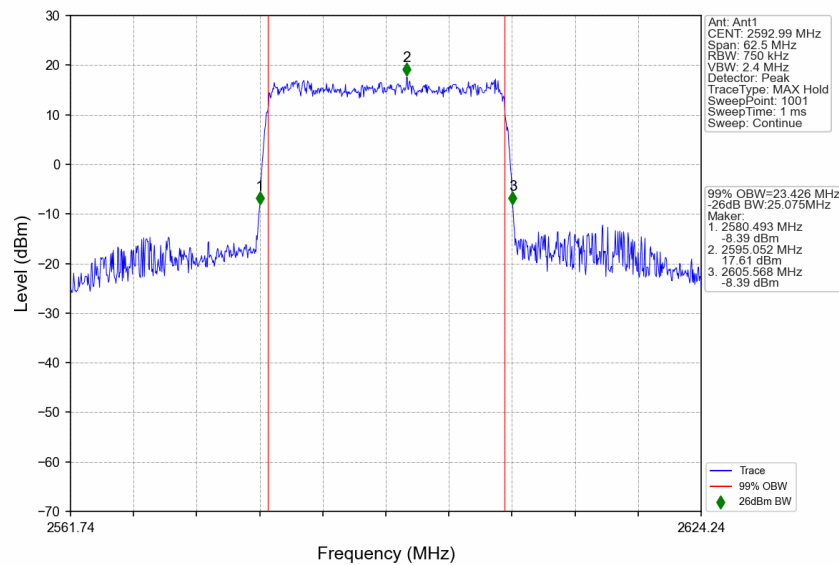
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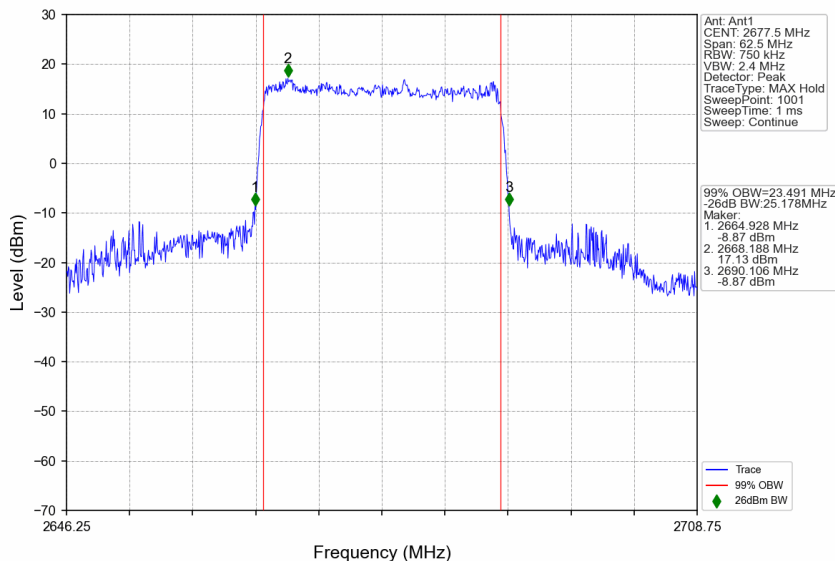
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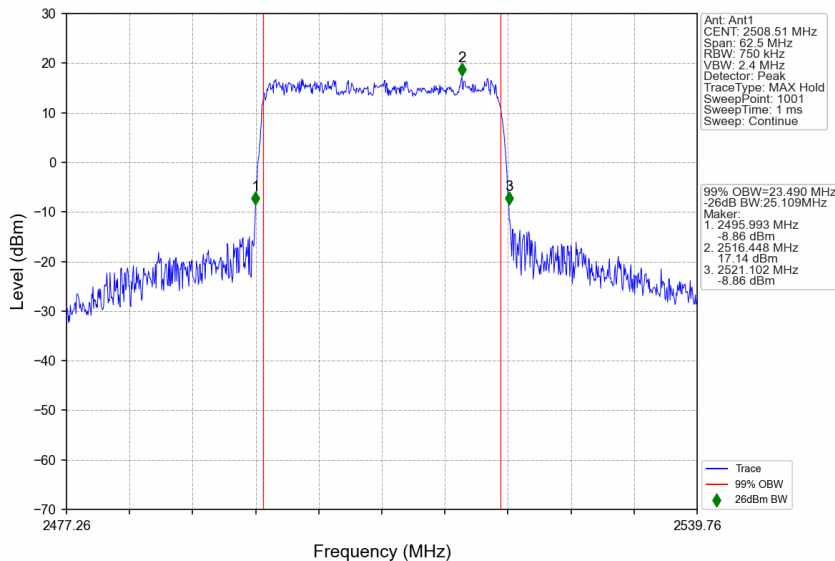
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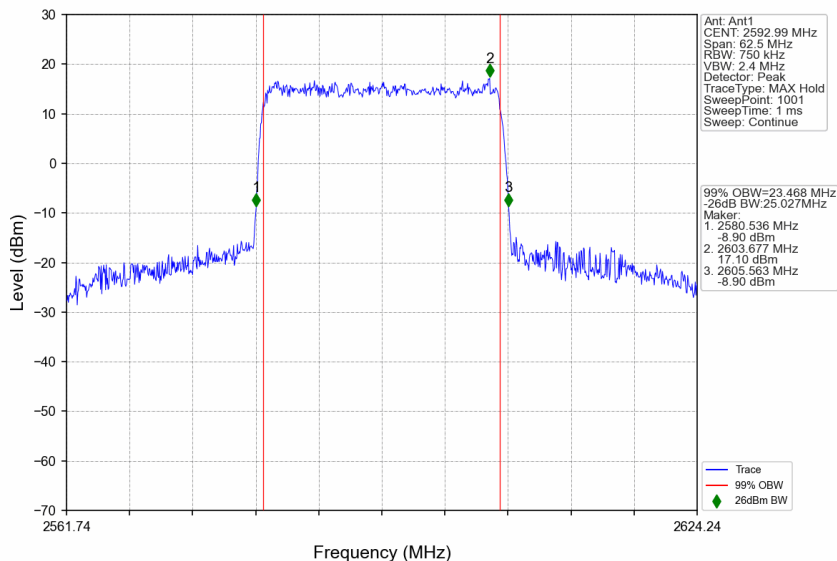


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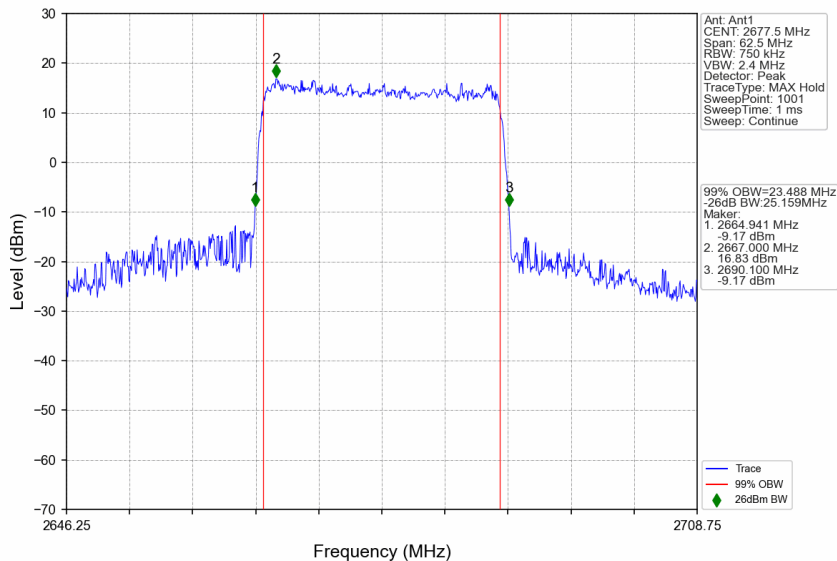
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n41_30kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_2677.5MHz_Outer_Full

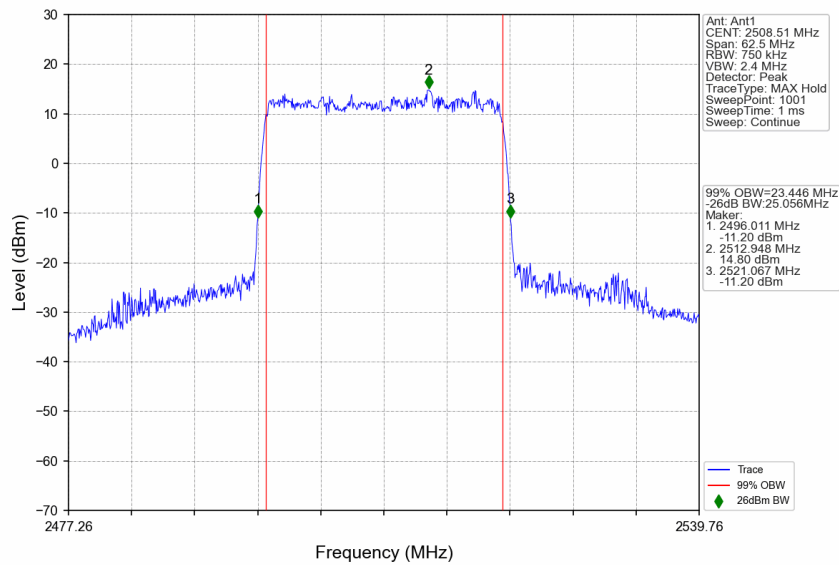


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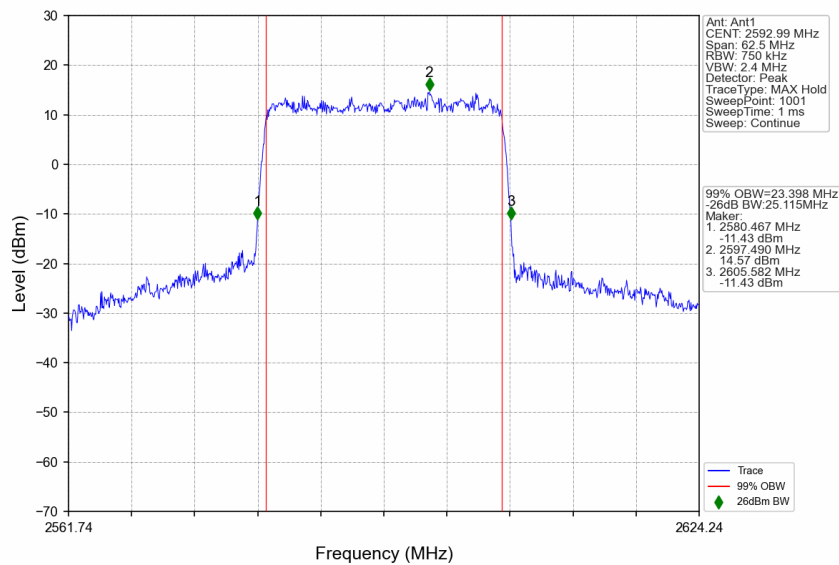
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n41_30kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_2508.51MHz_Outer_Full



n41_30kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_2592.99MHz_Outer_Full

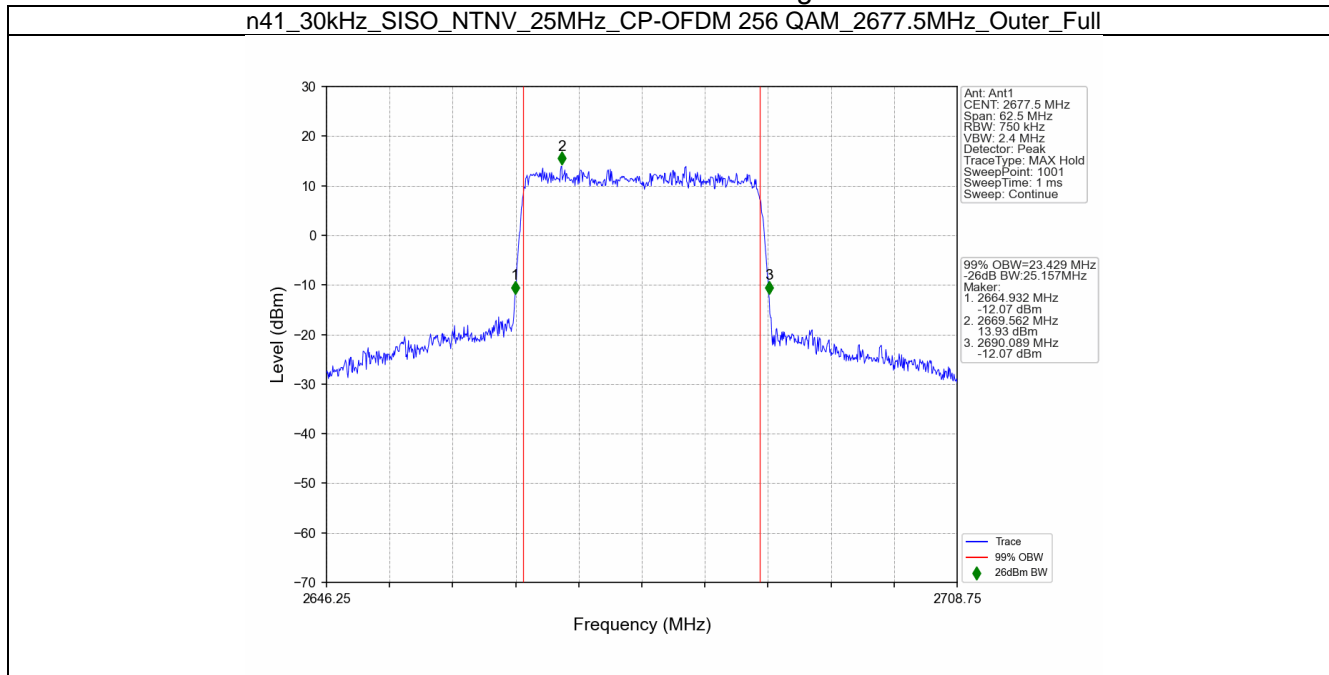


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n41_30kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_2677.5MHz_Outer_Full



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 Wireless Laboratory

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4.12 30k_SISO_30MHz_NTNV

4.12.1 Test Result

5G NR n41 SCS=30kHz SISO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2511	Outer_Full	27.07	29.08	/	Pass
	2592.99	Outer_Full	27.04	28.99	/	Pass
	2674.98	Outer_Full	27.15	29.16	/	Pass
DFT-s-OFDM QPSK	2511	Outer_Full	27.11	29.03	/	Pass
	2592.99	Outer_Full	27.07	29.19	/	Pass
	2674.98	Outer_Full	27.12	29.26	/	Pass
DFT-s-OFDM 16 QAM	2511	Outer_Full	27.10	29.18	/	Pass
	2592.99	Outer_Full	27.11	29.05	/	Pass
	2674.98	Outer_Full	27.25	29.19	/	Pass
DFT-s-OFDM 64 QAM	2511	Outer_Full	27.11	29.16	/	Pass
	2592.99	Outer_Full	27.12	29.22	/	Pass
	2674.98	Outer_Full	27.17	29.19	/	Pass
DFT-s-OFDM 256 QAM	2511	Outer_Full	27.12	29.17	/	Pass
	2592.99	Outer_Full	27.10	29.11	/	Pass
	2674.98	Outer_Full	27.12	29.16	/	Pass
CP-OFDM QPSK	2511	Outer_Full	28.06	30.24	/	Pass
	2592.99	Outer_Full	27.98	30.12	/	Pass
	2674.98	Outer_Full	28.09	30.19	/	Pass
CP-OFDM 16 QAM	2511	Outer_Full	28.16	30.08	/	Pass
	2592.99	Outer_Full	28.12	30.14	/	Pass
	2674.98	Outer_Full	28.11	30.31	/	Pass
CP-OFDM 64 QAM	2511	Outer_Full	28.05	30.18	/	Pass
	2592.99	Outer_Full	28.07	30.13	/	Pass
	2674.98	Outer_Full	28.07	30.17	/	Pass
CP-OFDM 256 QAM	2511	Outer_Full	28.09	30.19	/	Pass
	2592.99	Outer_Full	28.08	30.23	/	Pass
	2674.98	Outer_Full	28.08	30.14	/	Pass

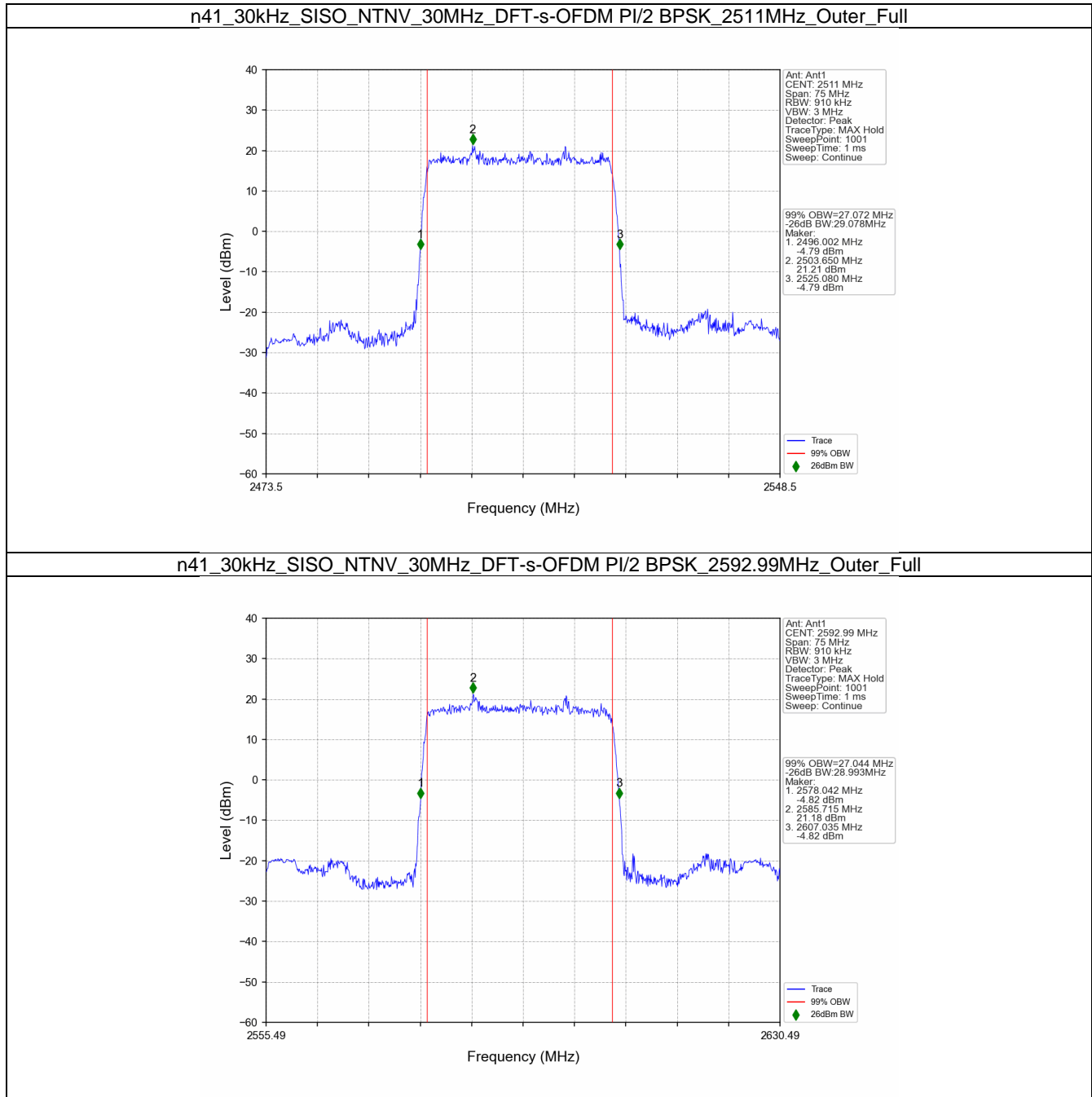


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4.12.2 Test Graph

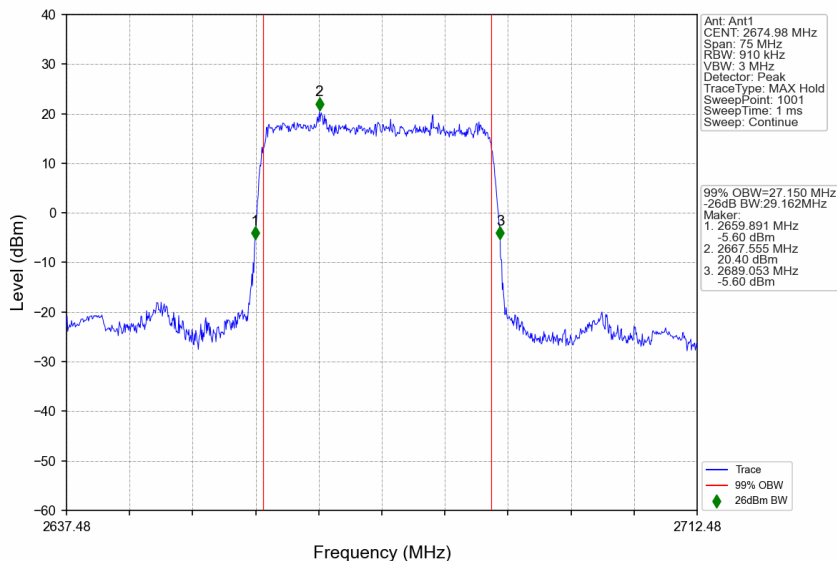


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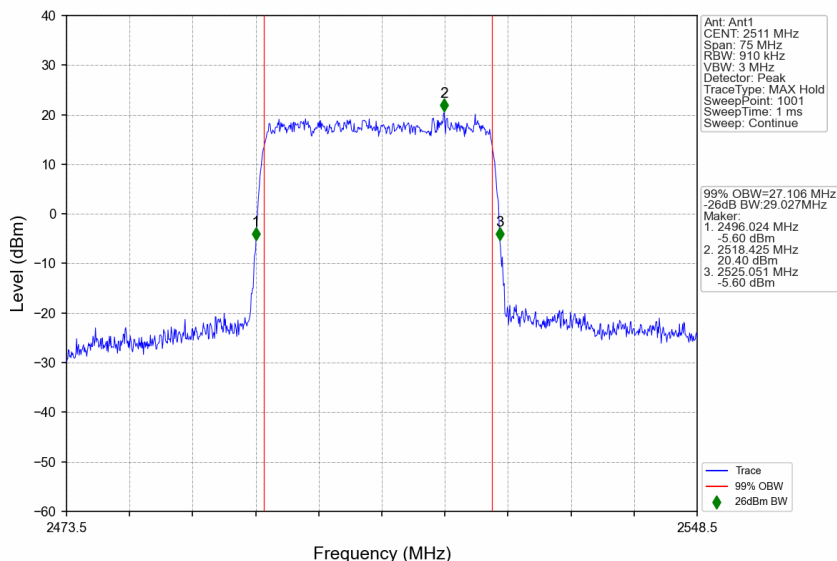
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2674.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2511MHz_Outer_Full

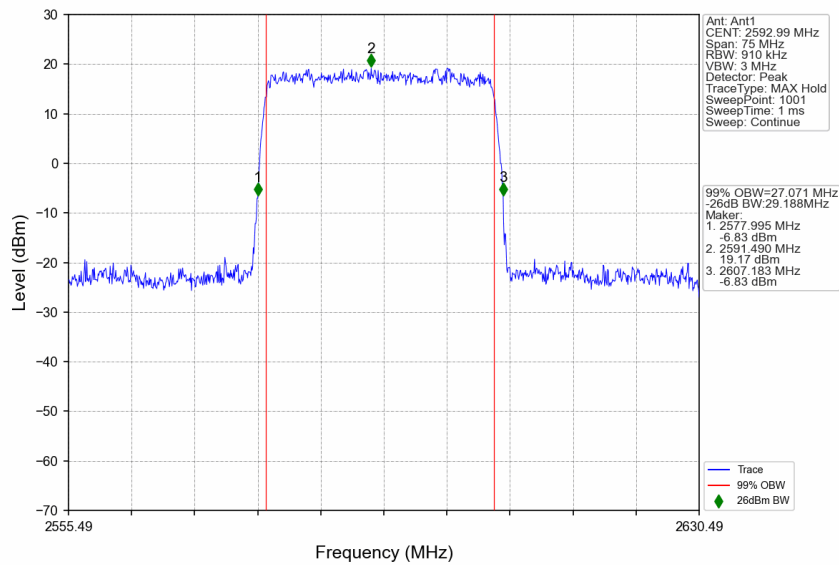


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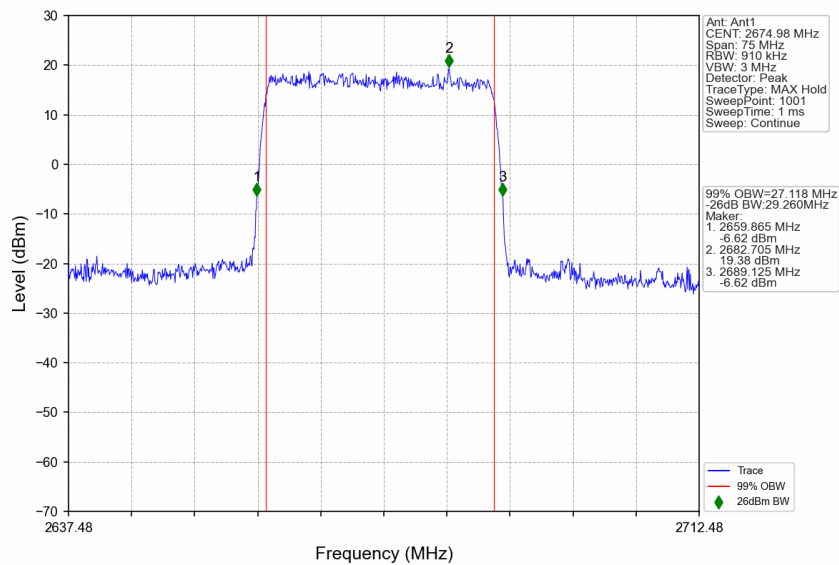
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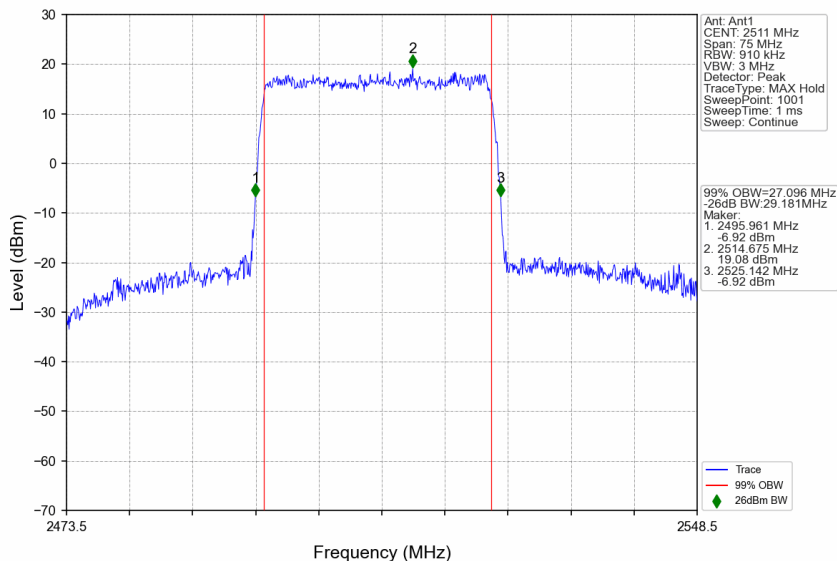


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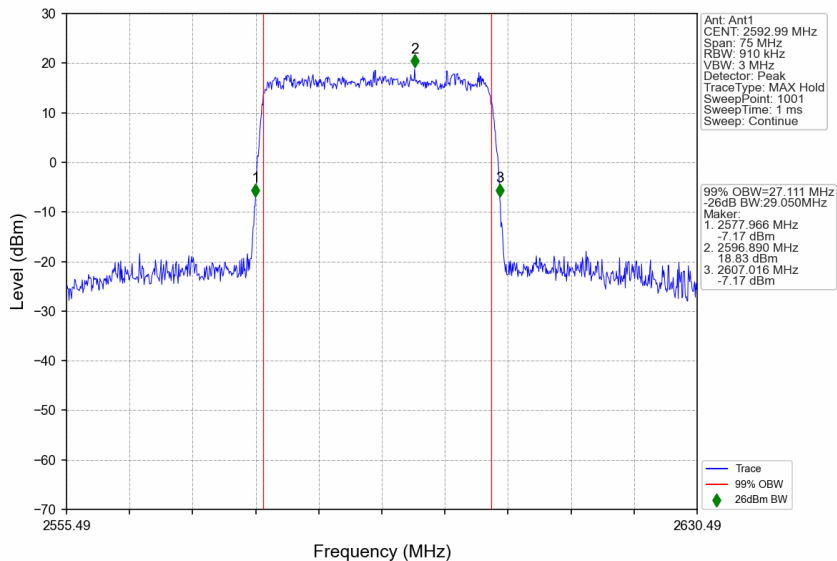
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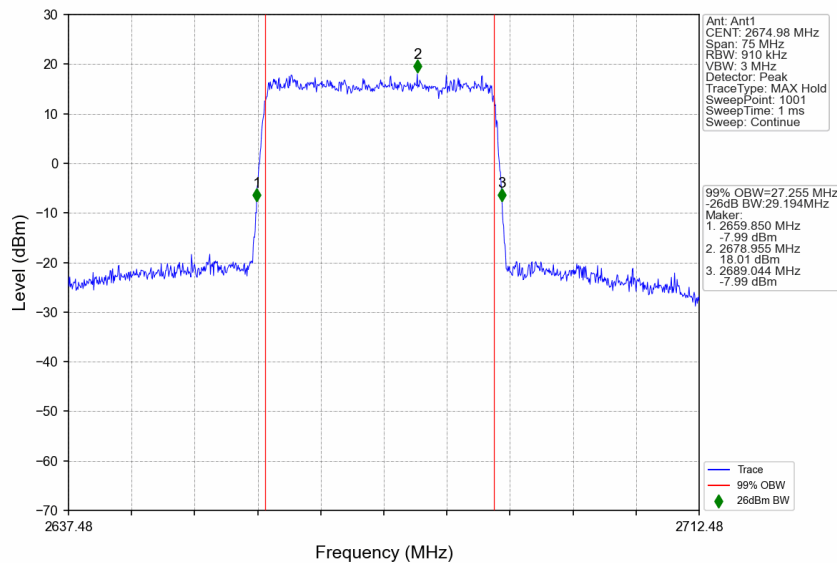


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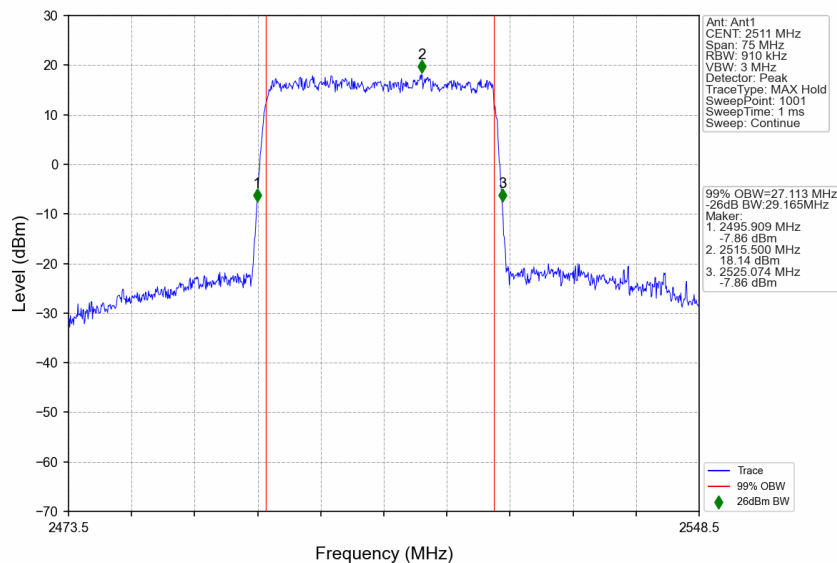
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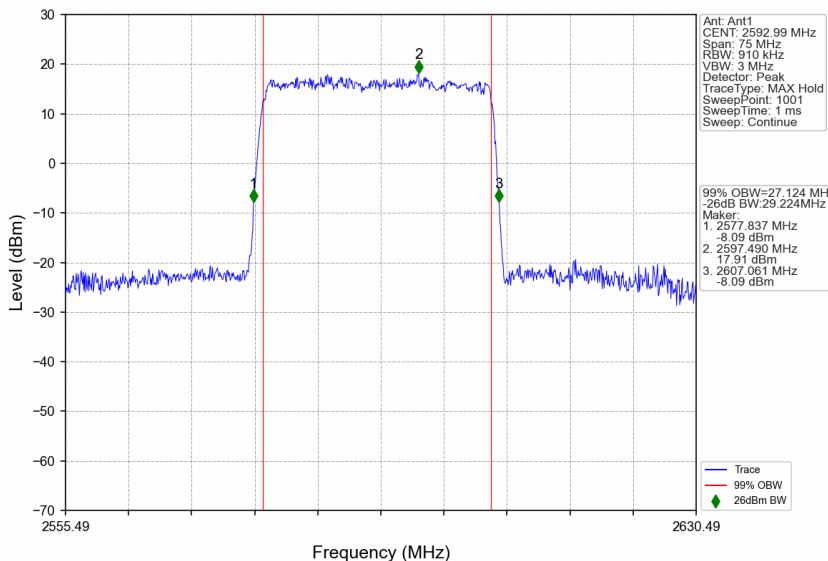


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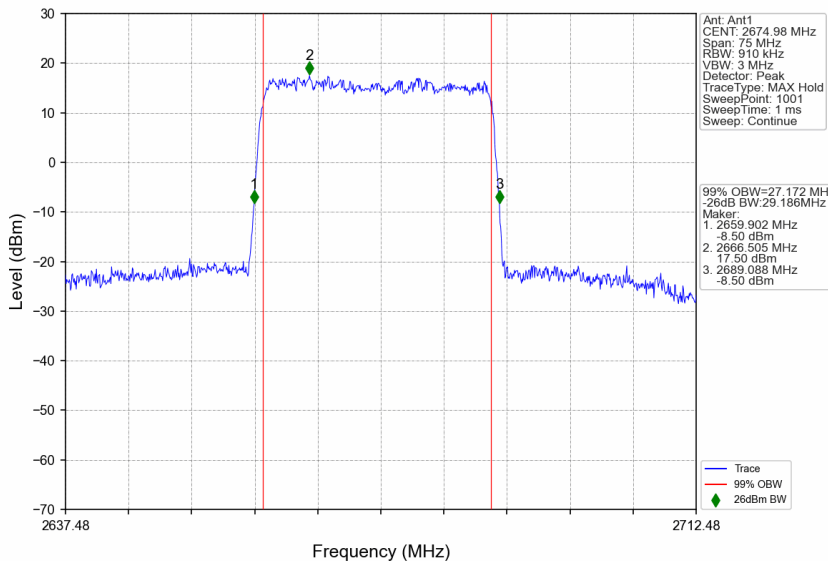
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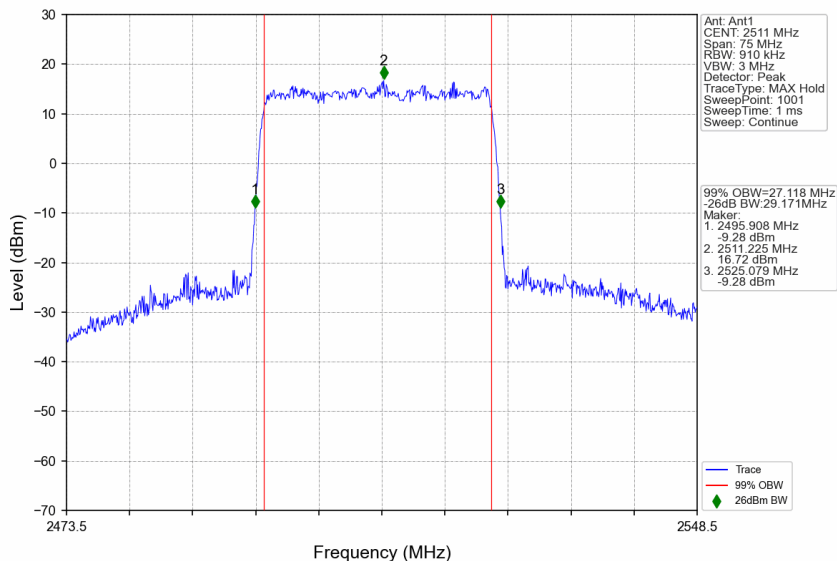


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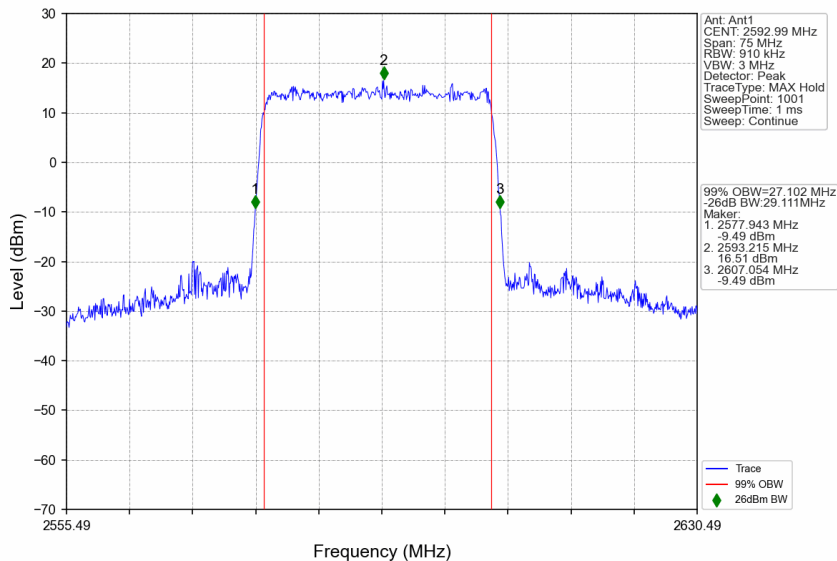
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