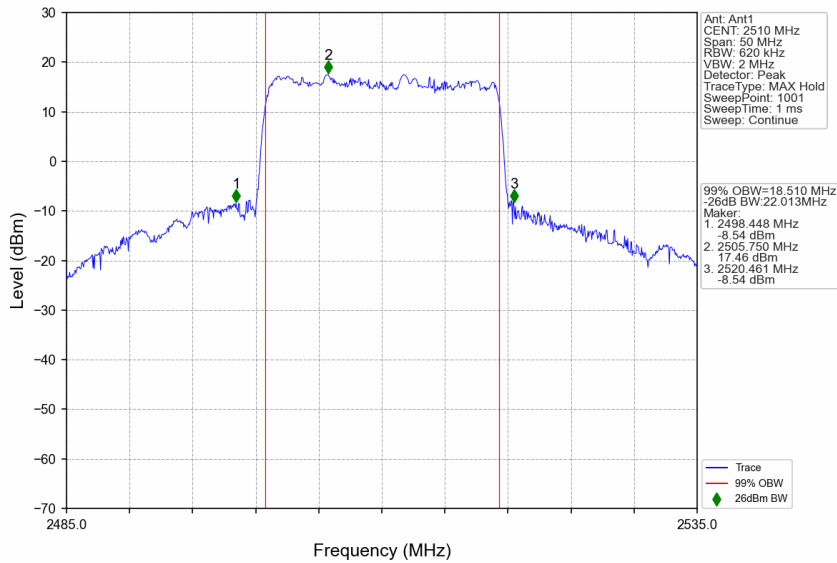
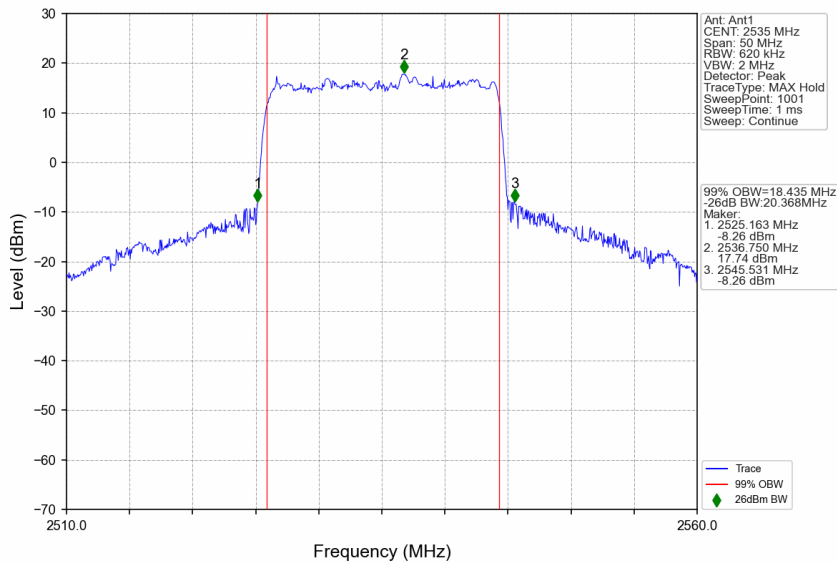


n7_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2510MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2535MHz_Outer_Full

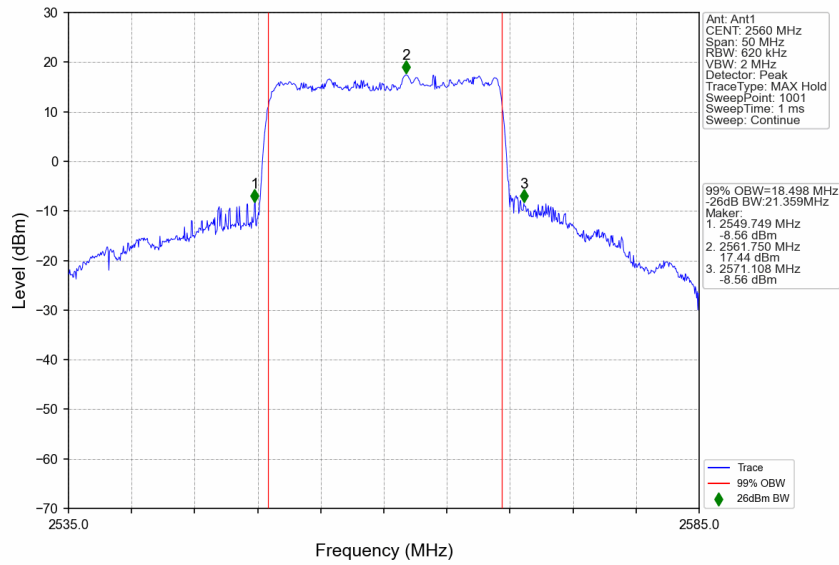


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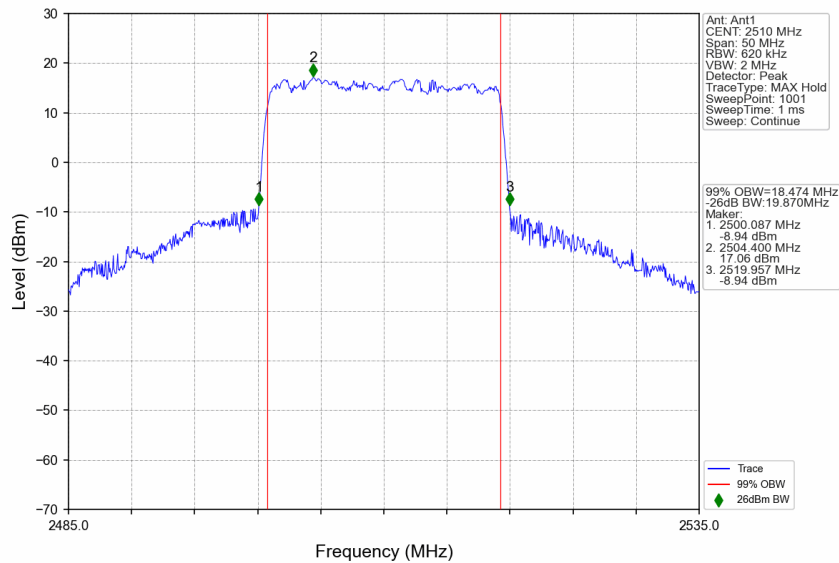
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n7_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2560MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2510MHz_Outer_Full

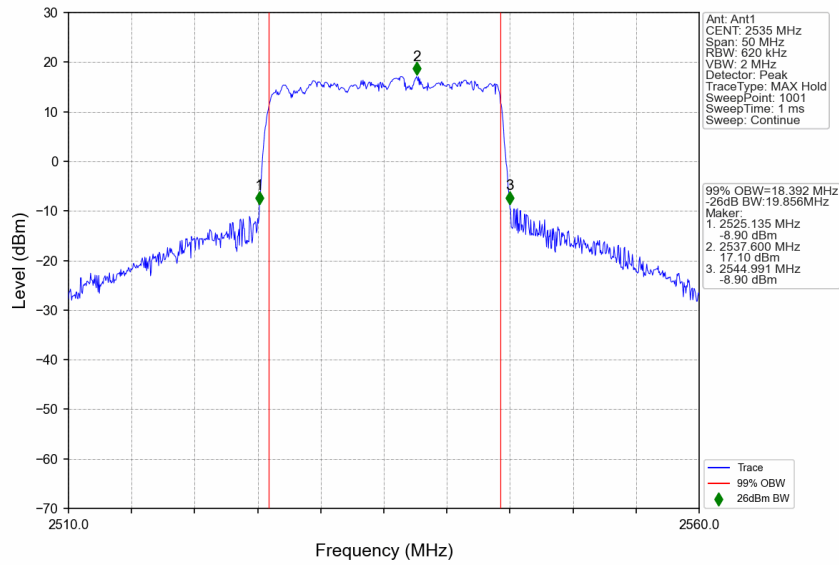


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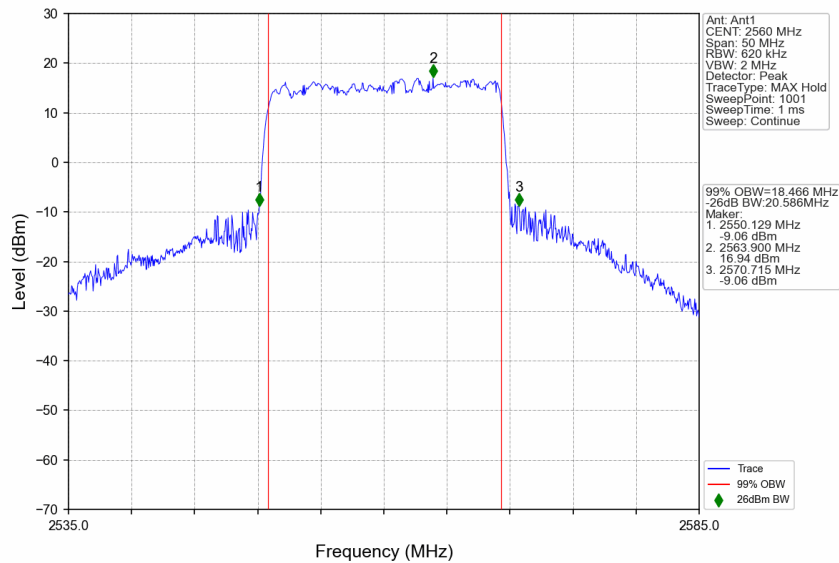
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n7_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2560MHz_Outer_Full

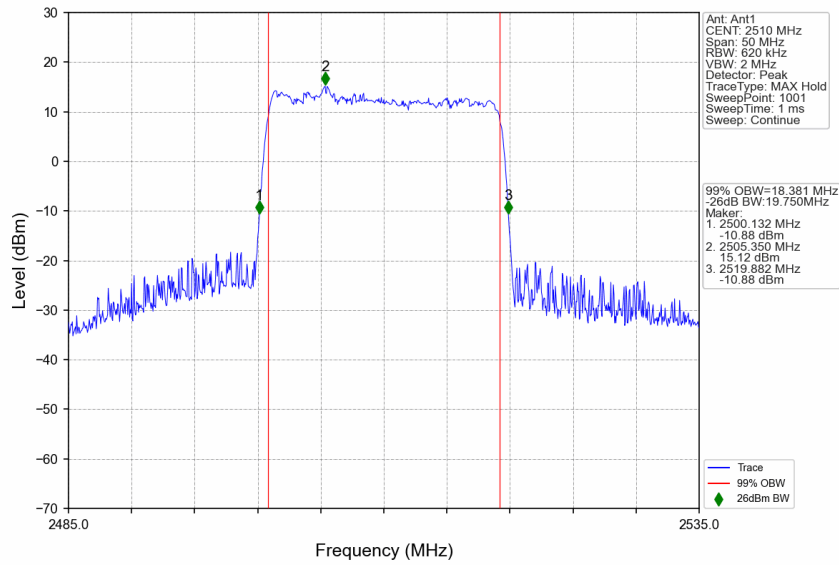


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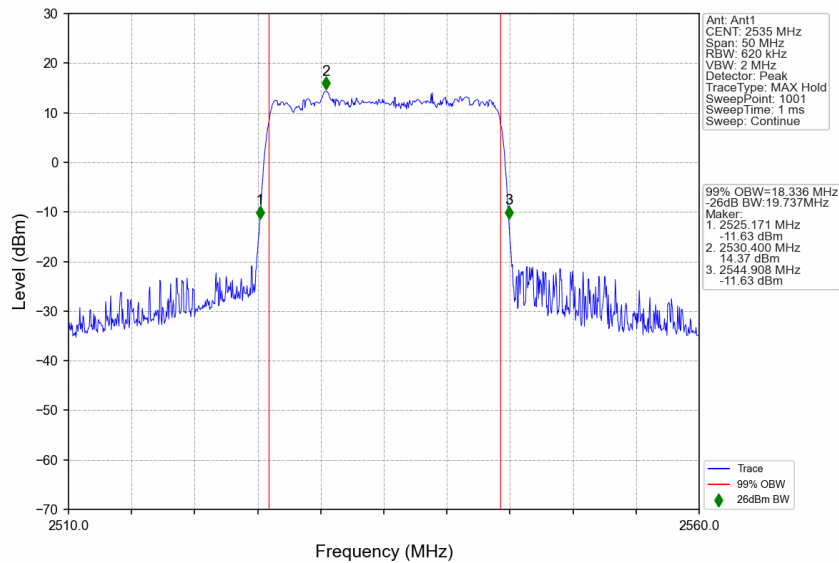
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n7_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_2510MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_2535MHz_Outer_Full

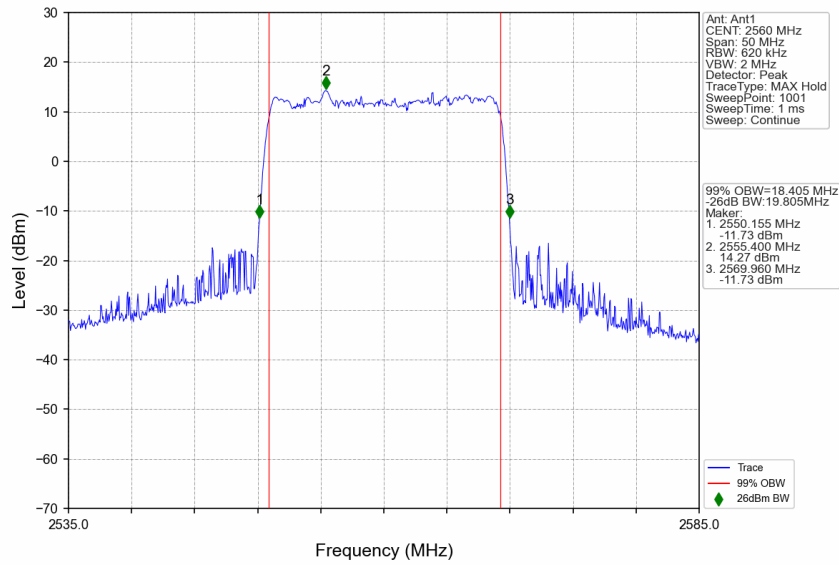


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n7_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_2560MHz_Outer_Full



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4.12 30k_SISO_25MHz_NTNV

4.12.1 Test Result

5G NR n7 SCS=30kHz SISO 25MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2512.5	Outer_Full	23.16	24.87	/	Pass
	2535	Outer_Full	23.11	24.79	/	Pass
	2557.5	Outer_Full	23.20	24.86	/	Pass
DFT-s-OFDM QPSK	2512.5	Outer_Full	23.23	24.85	/	Pass
	2535	Outer_Full	23.13	24.80	/	Pass
	2557.5	Outer_Full	23.24	24.82	/	Pass
DFT-s-OFDM 16 QAM	2512.5	Outer_Full	23.18	24.85	/	Pass
	2535	Outer_Full	23.09	24.82	/	Pass
	2557.5	Outer_Full	23.16	24.85	/	Pass
DFT-s-OFDM 64 QAM	2512.5	Outer_Full	23.19	24.83	/	Pass
	2535	Outer_Full	23.08	24.75	/	Pass
	2557.5	Outer_Full	23.19	24.79	/	Pass
DFT-s-OFDM 256 QAM	2512.5	Outer_Full	23.07	24.82	/	Pass
	2535	Outer_Full	22.98	24.68	/	Pass
	2557.5	Outer_Full	23.09	24.73	/	Pass
CP-OFDM QPSK	2512.5	Outer_Full	23.54	27.72	/	Pass
	2535	Outer_Full	23.42	26.04	/	Pass
	2557.5	Outer_Full	23.52	27.94	/	Pass
CP-OFDM 16 QAM	2512.5	Outer_Full	23.61	27.22	/	Pass
	2535	Outer_Full	23.49	28.13	/	Pass
	2557.5	Outer_Full	23.62	27.18	/	Pass
CP-OFDM 64 QAM	2512.5	Outer_Full	23.58	25.11	/	Pass
	2535	Outer_Full	23.49	25.13	/	Pass
	2557.5	Outer_Full	23.58	26.23	/	Pass
CP-OFDM 256 QAM	2512.5	Outer_Full	23.42	25.22	/	Pass
	2535	Outer_Full	23.35	25.17	/	Pass
	2557.5	Outer_Full	23.44	25.19	/	Pass

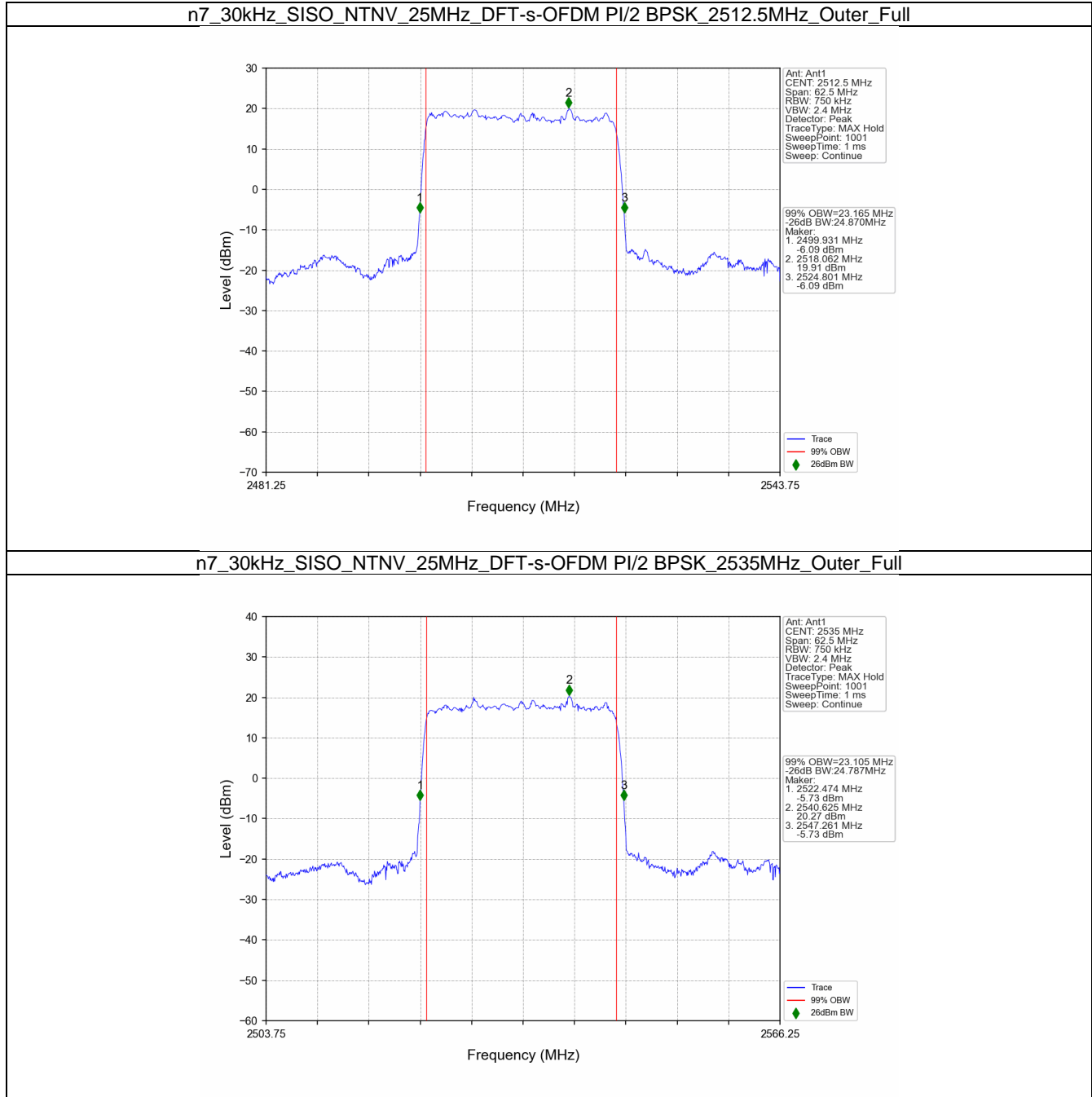


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4.12.2 Test Graph

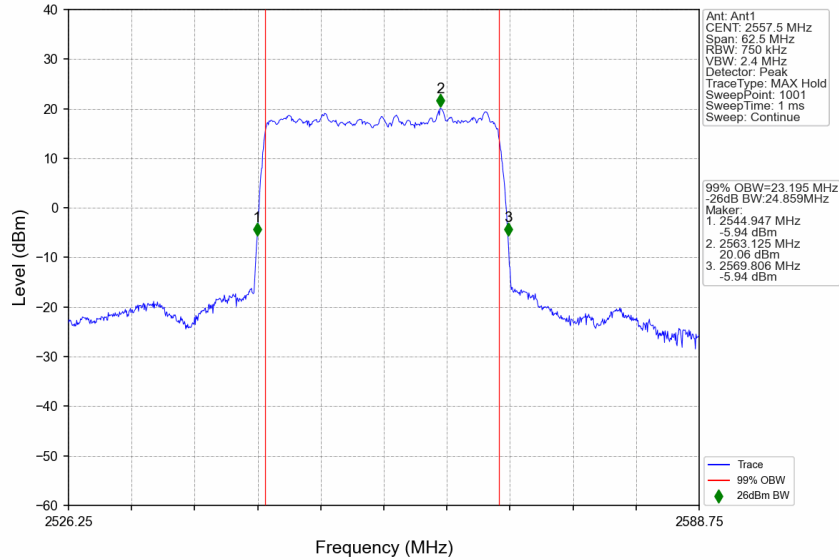


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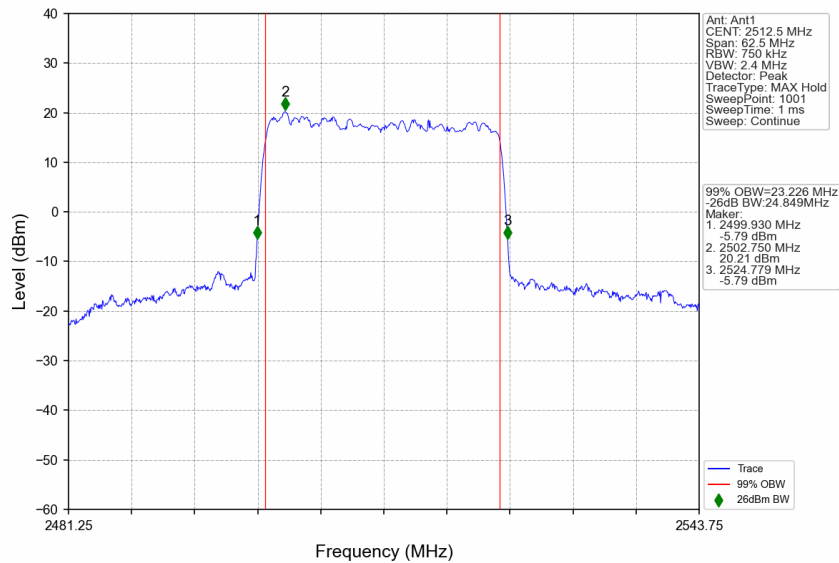
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n7_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_2557.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2512.5MHz_Outer_Full

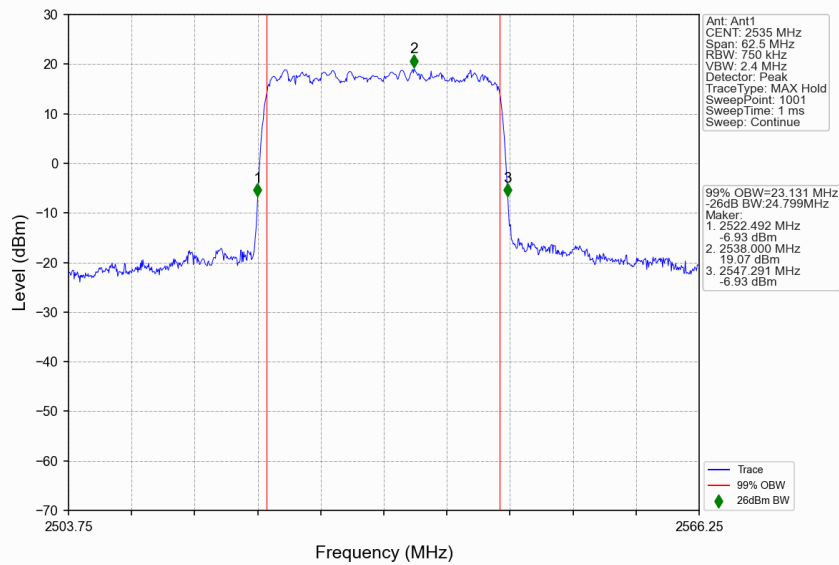


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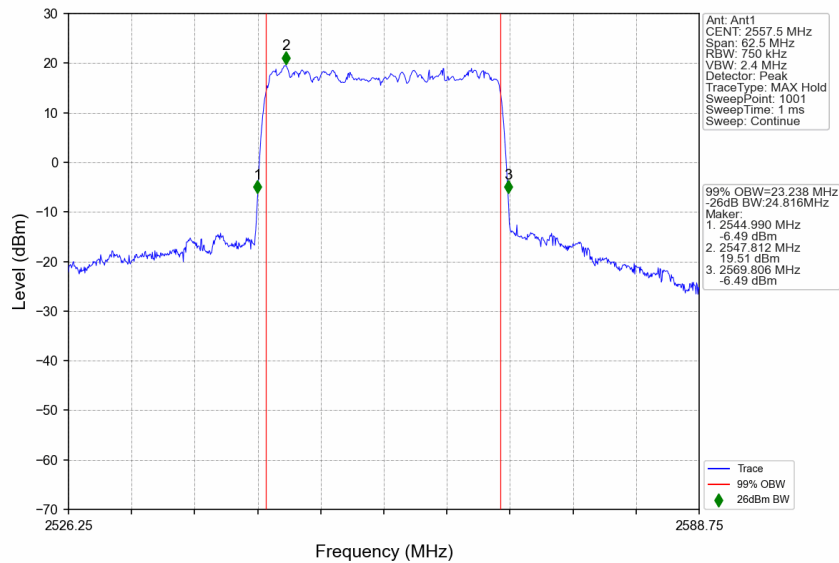
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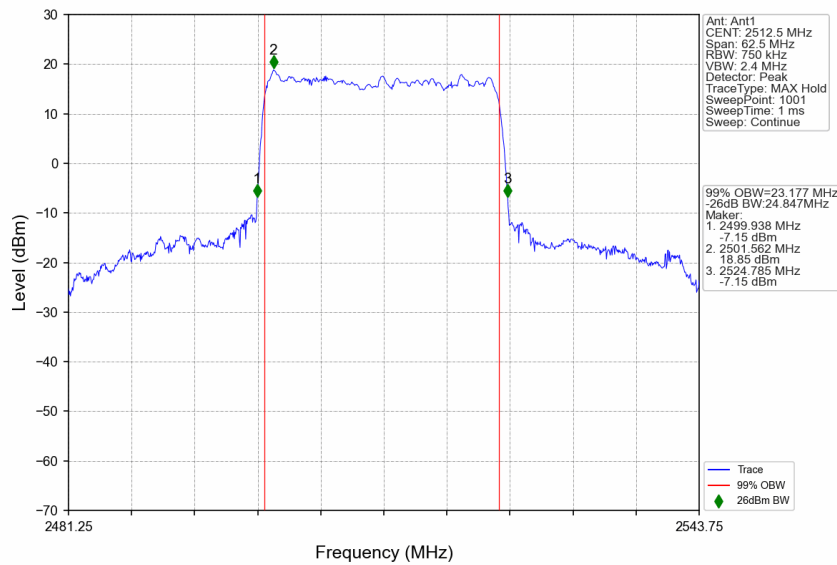
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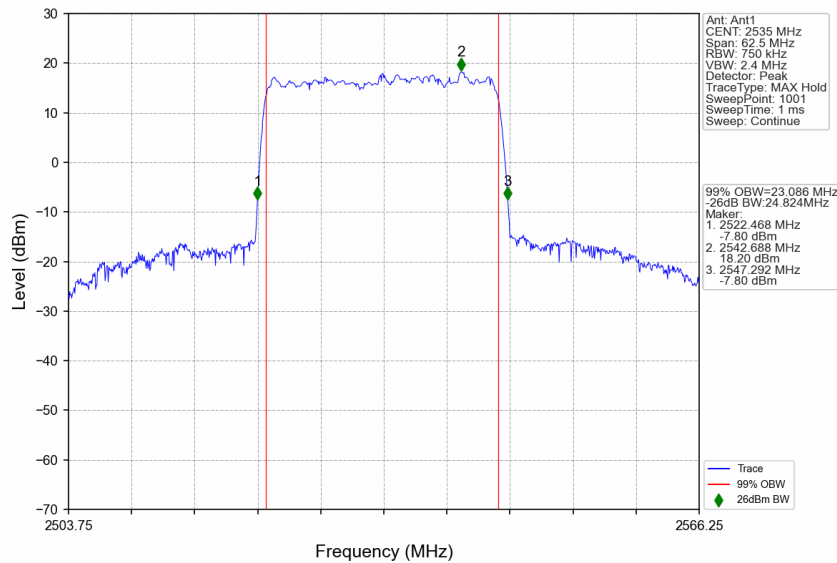
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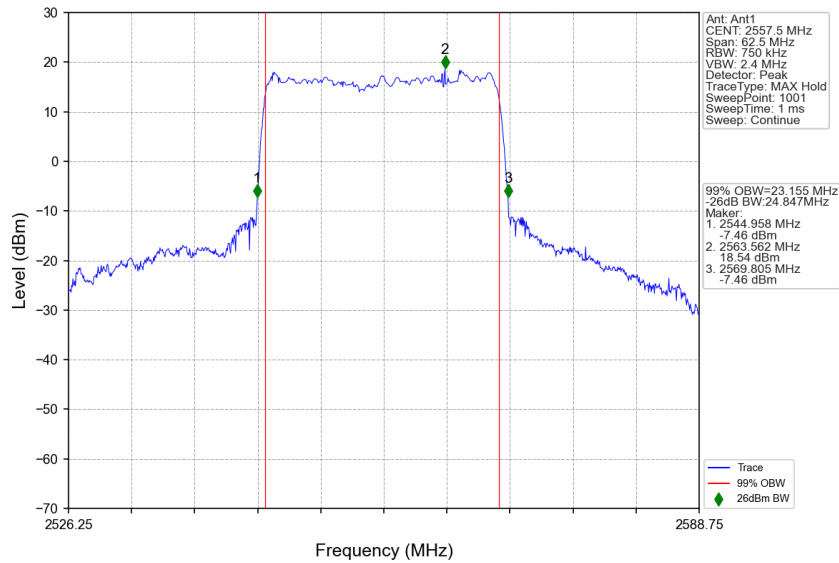


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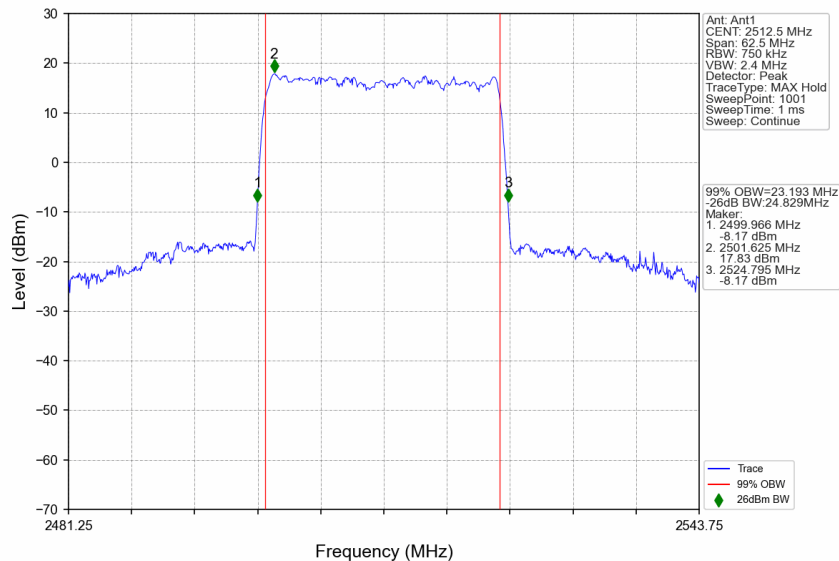
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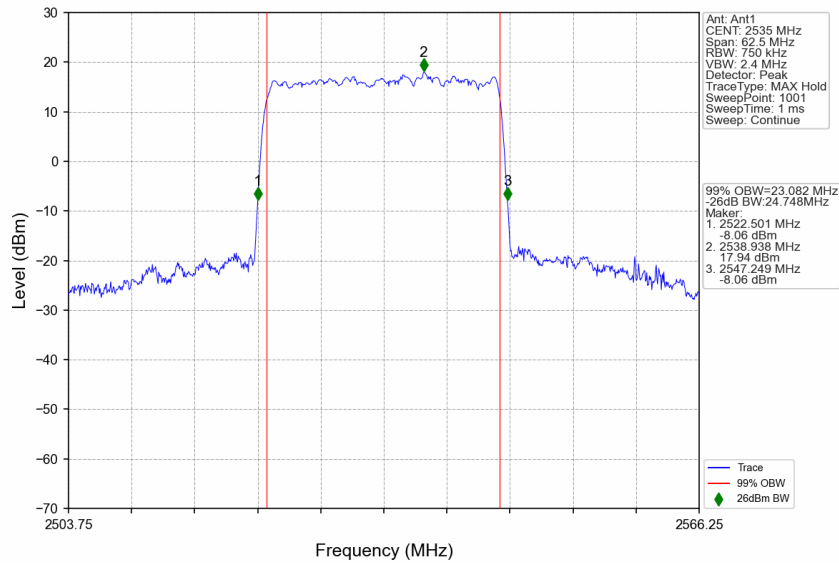


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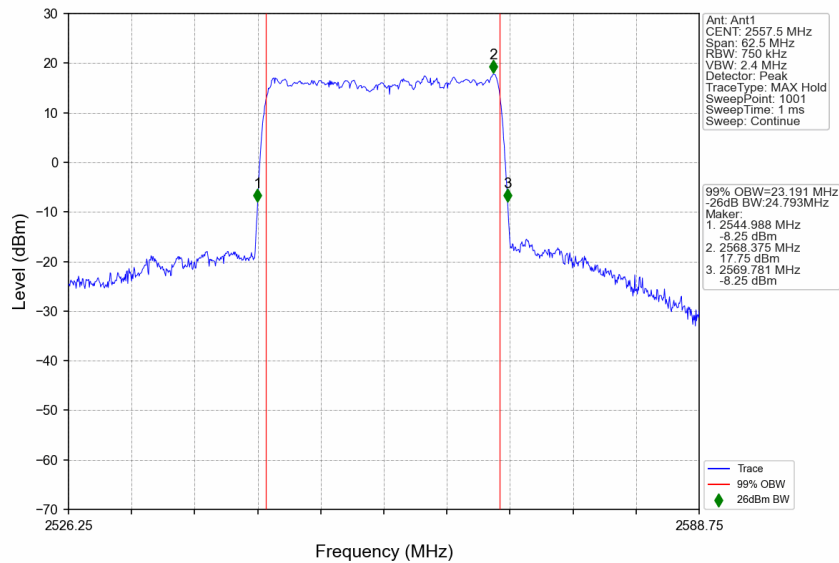
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n7_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_2557.5MHz_Outer_Full

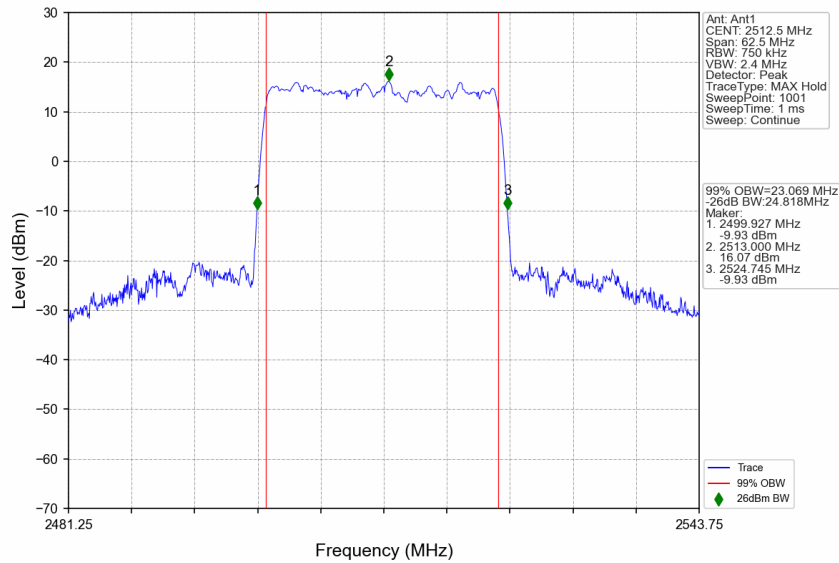


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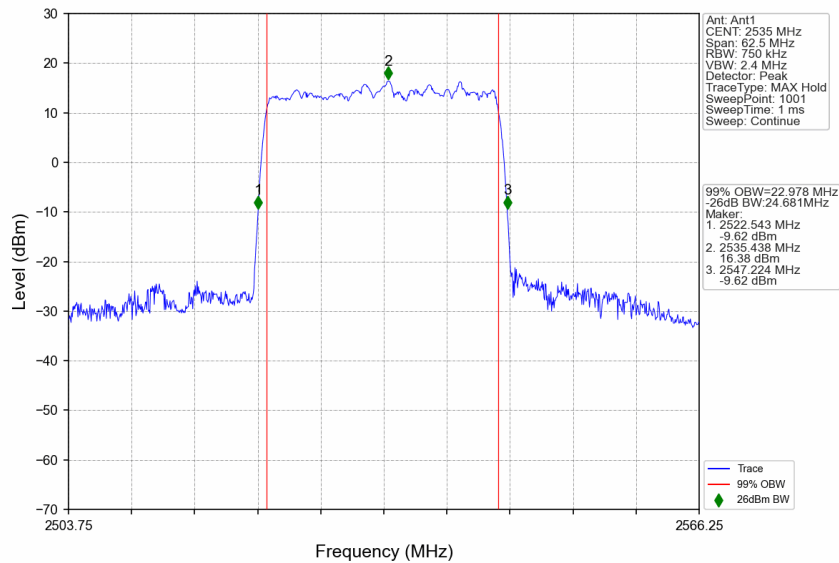
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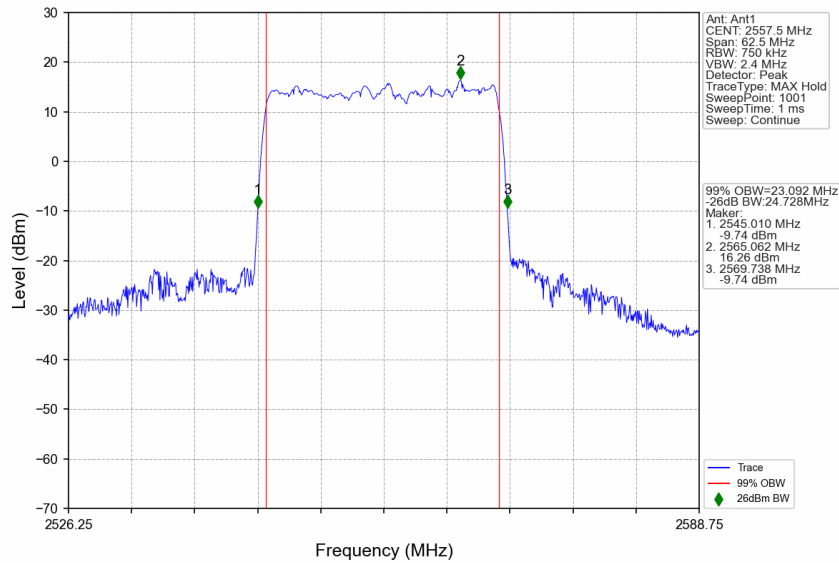


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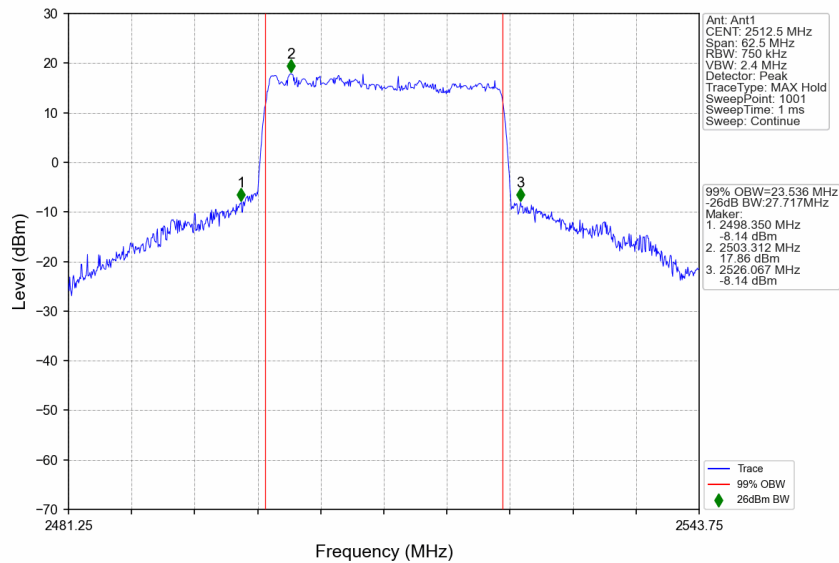
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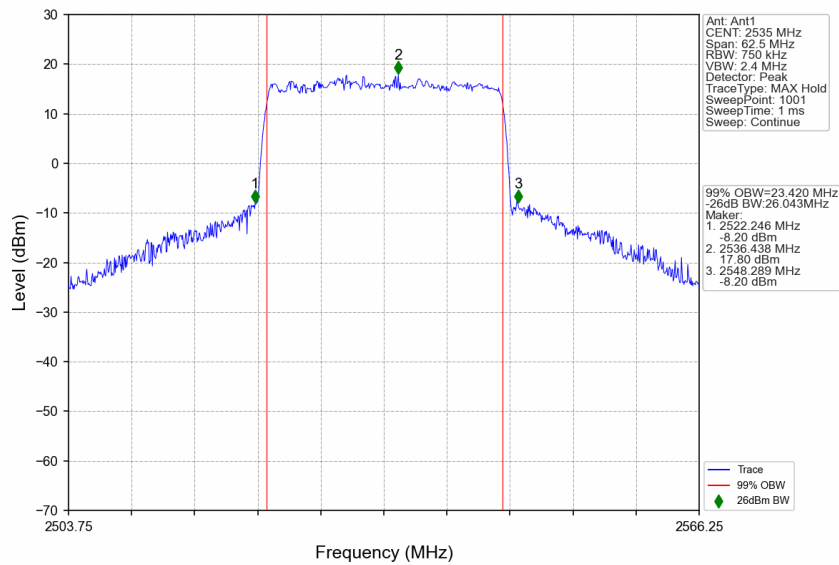


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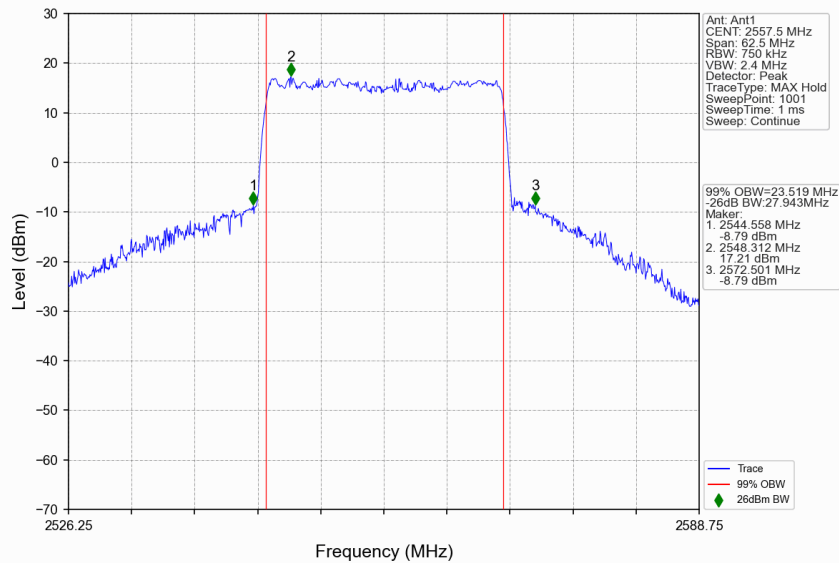
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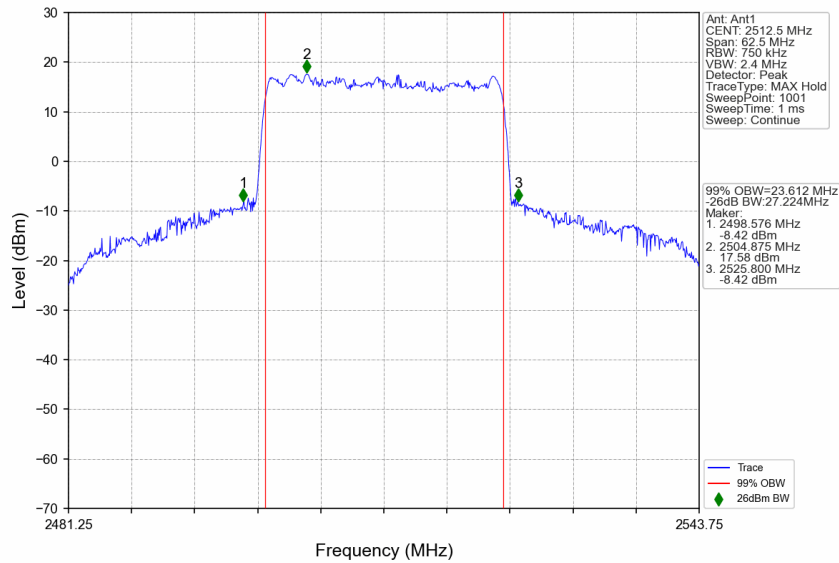
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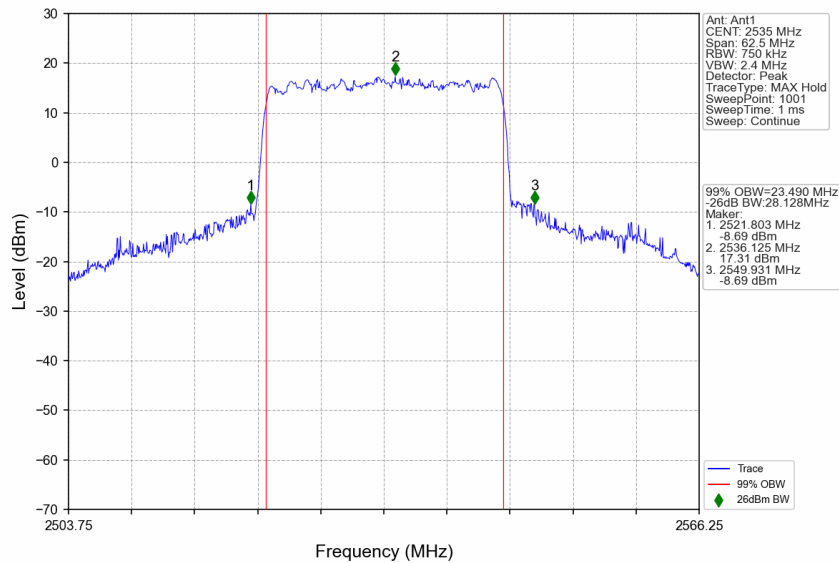
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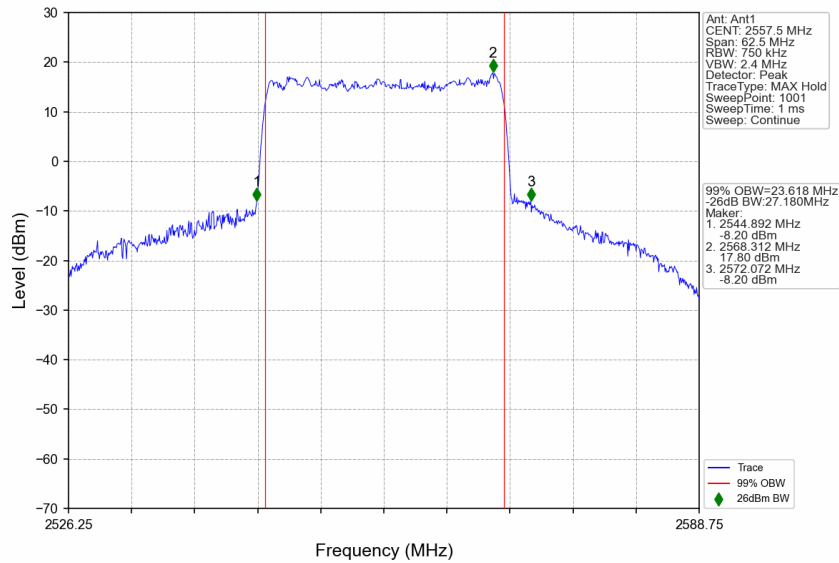


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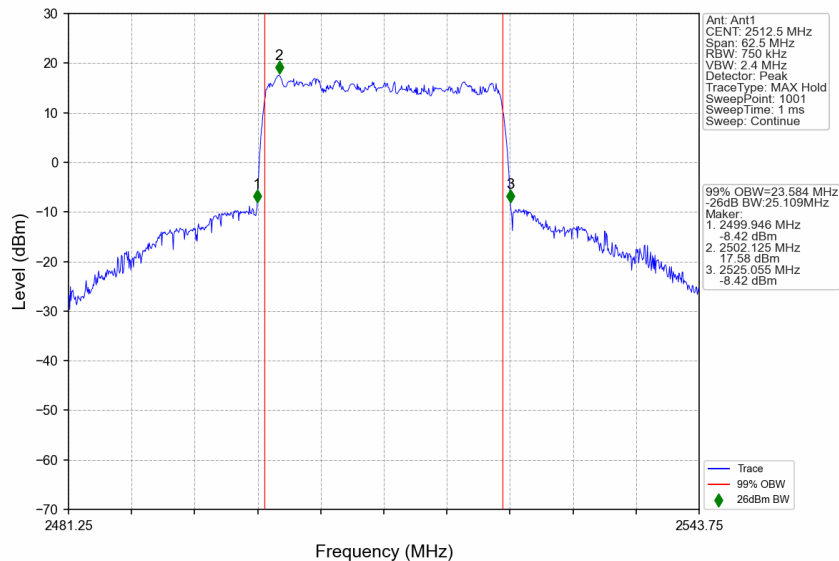
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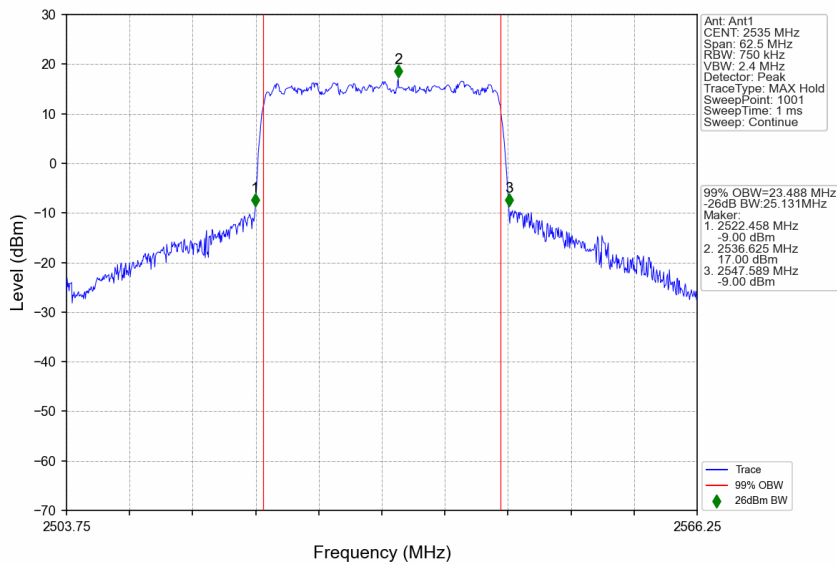


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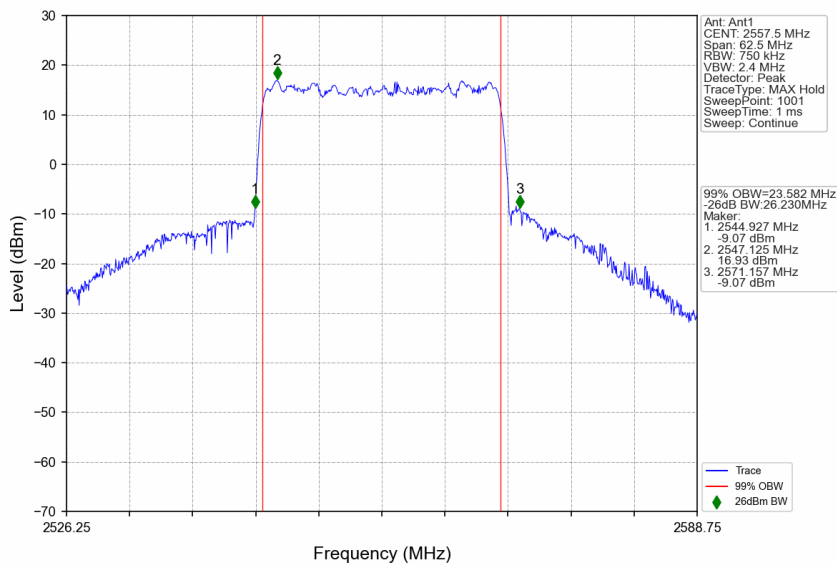
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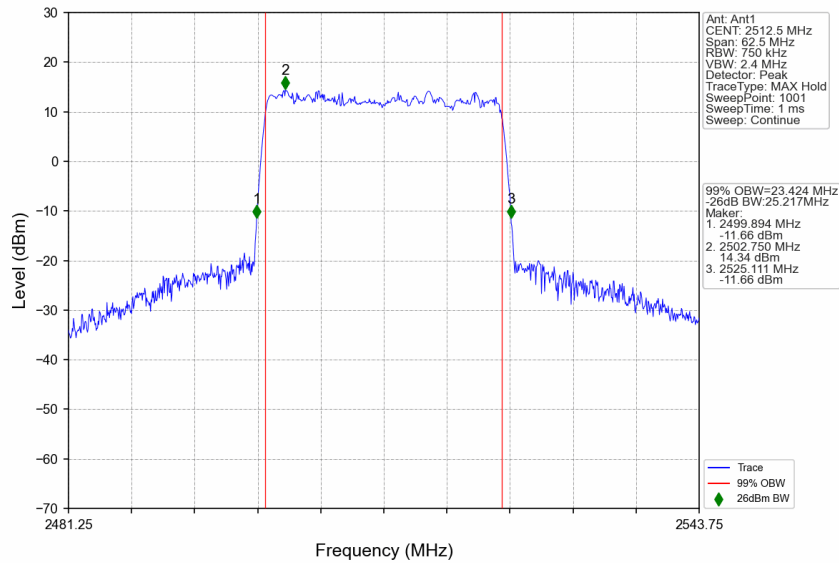


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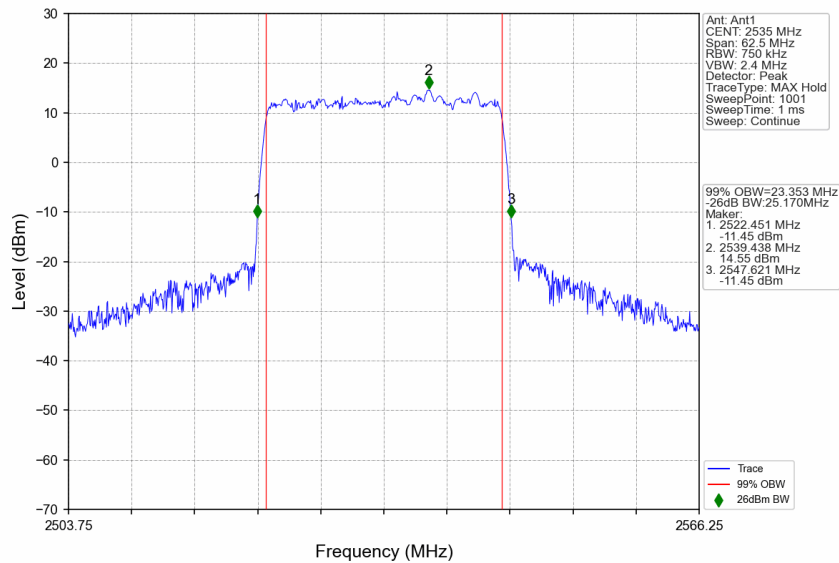
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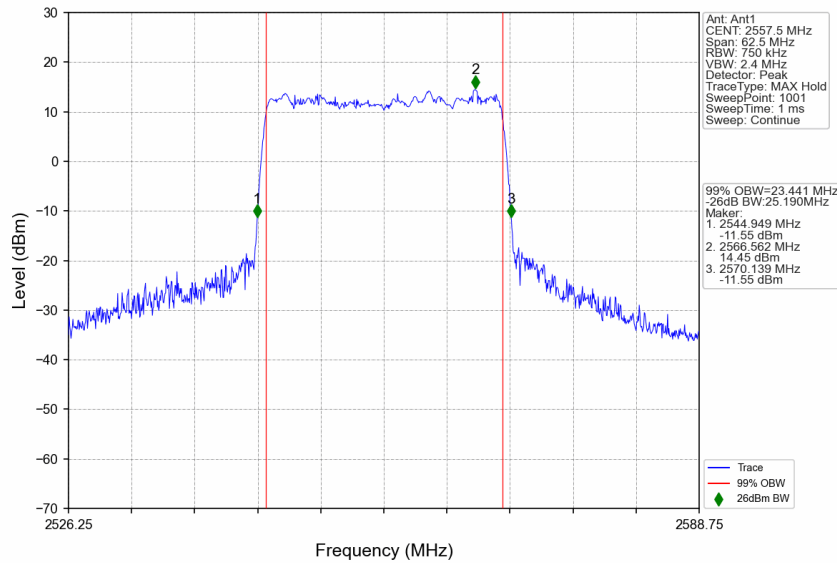
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4.13 30k_SISO_30MHz_NTNV

4.13.1 Test Result

5G NR n7 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	2515	Outer_Full	27.22	29.16	/	Pass
	2535	Outer_Full	27.07	29.10	/	Pass
	2555	Outer_Full	27.23	29.16	/	Pass
DFT-s-OFDM QPSK	2515	Outer_Full	27.26	29.39	/	Pass
	2535	Outer_Full	27.02	29.14	/	Pass
	2555	Outer_Full	27.21	29.42	/	Pass
DFT-s-OFDM 16 QAM	2515	Outer_Full	27.15	29.39	/	Pass
	2535	Outer_Full	27.08	29.20	/	Pass
	2555	Outer_Full	27.18	29.34	/	Pass
DFT-s-OFDM 64 QAM	2515	Outer_Full	27.22	29.26	/	Pass
	2535	Outer_Full	27.04	29.22	/	Pass
	2555	Outer_Full	27.20	29.31	/	Pass
DFT-s-OFDM 256 QAM	2515	Outer_Full	27.16	29.31	/	Pass
	2535	Outer_Full	27.01	29.10	/	Pass
	2555	Outer_Full	27.17	29.25	/	Pass
CP-OFDM QPSK	2515	Outer_Full	28.28	38.89	/	Pass
	2535	Outer_Full	28.08	35.95	/	Pass
	2555	Outer_Full	28.23	36.85	/	Pass
CP-OFDM 16 QAM	2515	Outer_Full	28.31	38.44	/	Pass
	2535	Outer_Full	28.14	34.56	/	Pass
	2555	Outer_Full	28.26	38.73	/	Pass
CP-OFDM 64 QAM	2515	Outer_Full	28.21	35.16	/	Pass
	2535	Outer_Full	28.04	30.15	/	Pass
	2555	Outer_Full	28.21	36.71	/	Pass
CP-OFDM 256 QAM	2515	Outer_Full	28.15	30.36	/	Pass
	2535	Outer_Full	27.99	30.29	/	Pass
	2555	Outer_Full	28.17	30.35	/	Pass

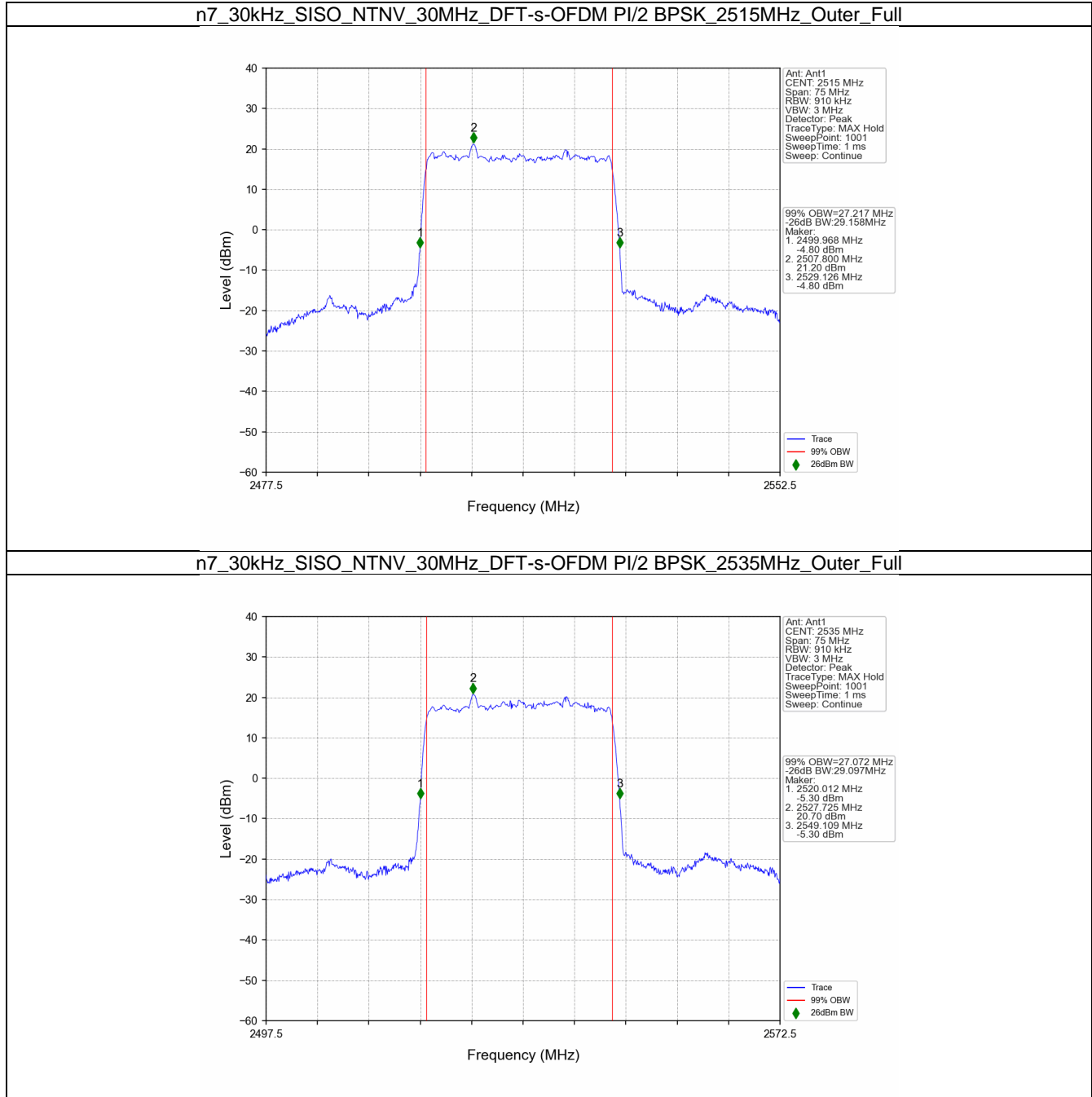


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4.13.2 Test Graph

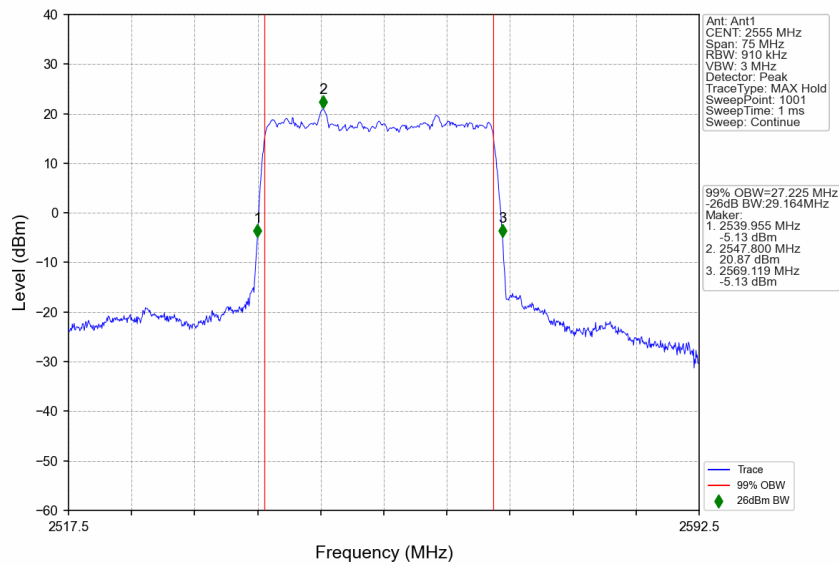


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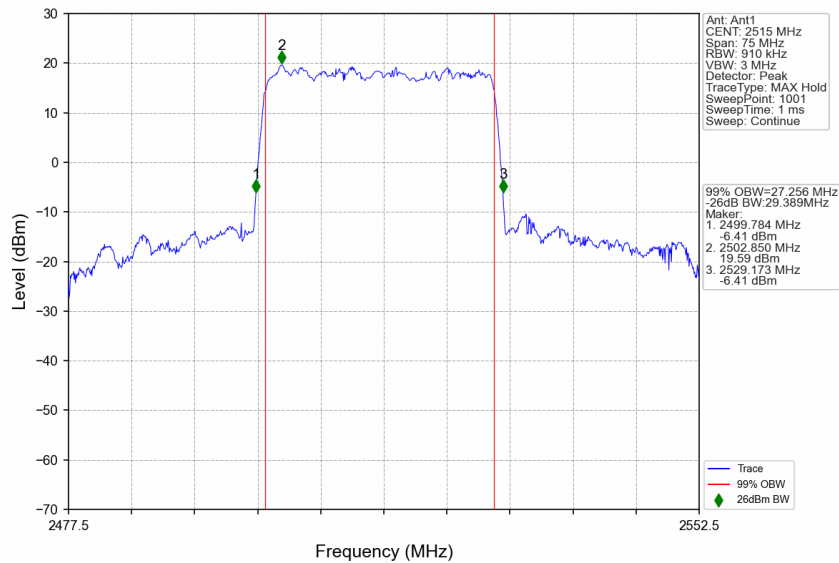
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n7_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2555MHz_Outer_Full



n7_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2515MHz_Outer_Full



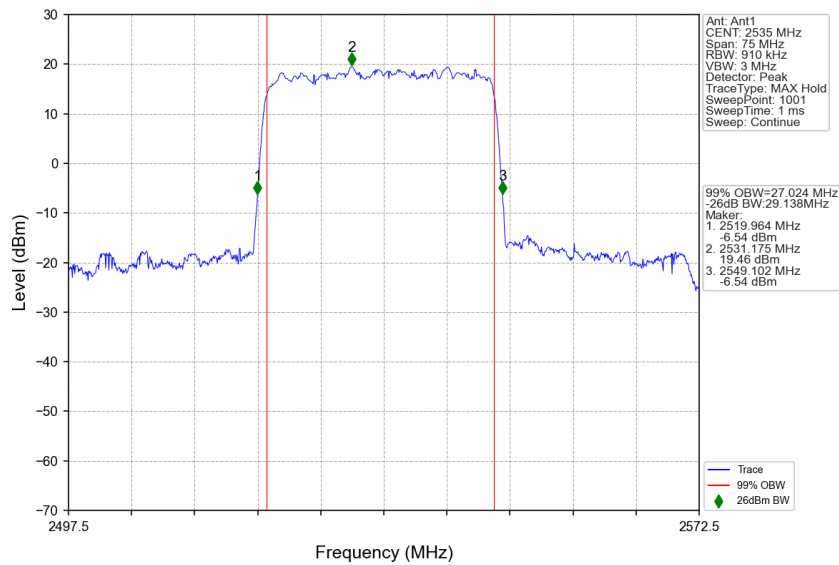
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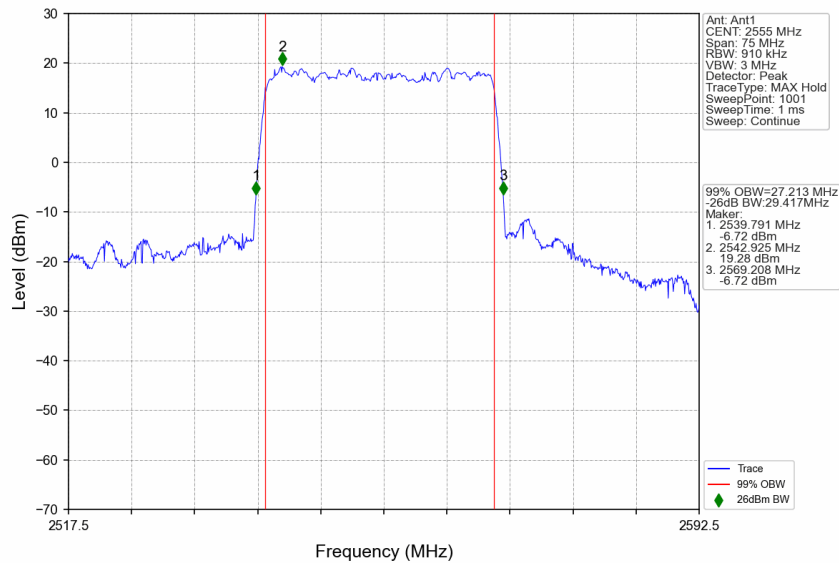
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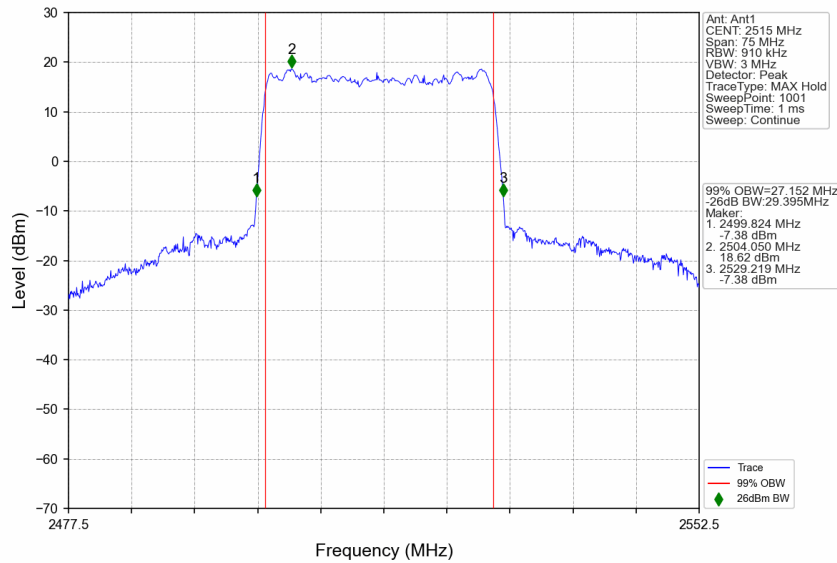
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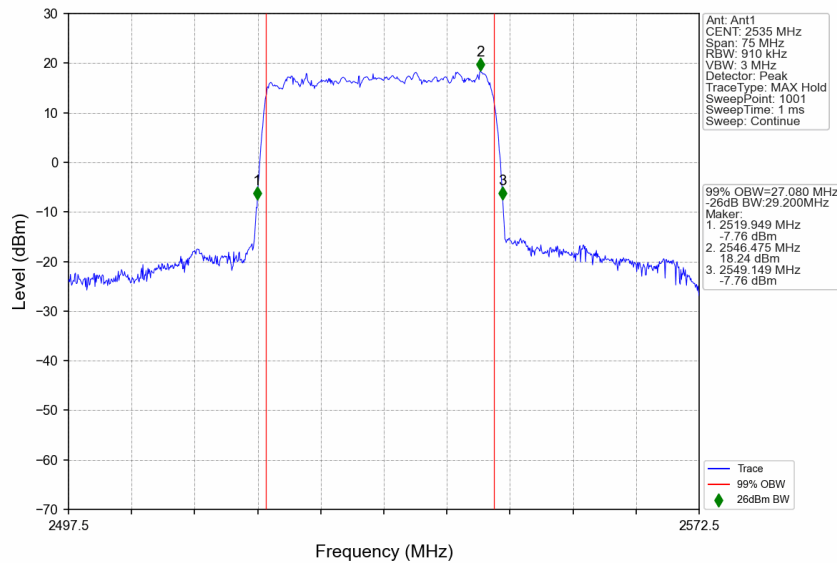
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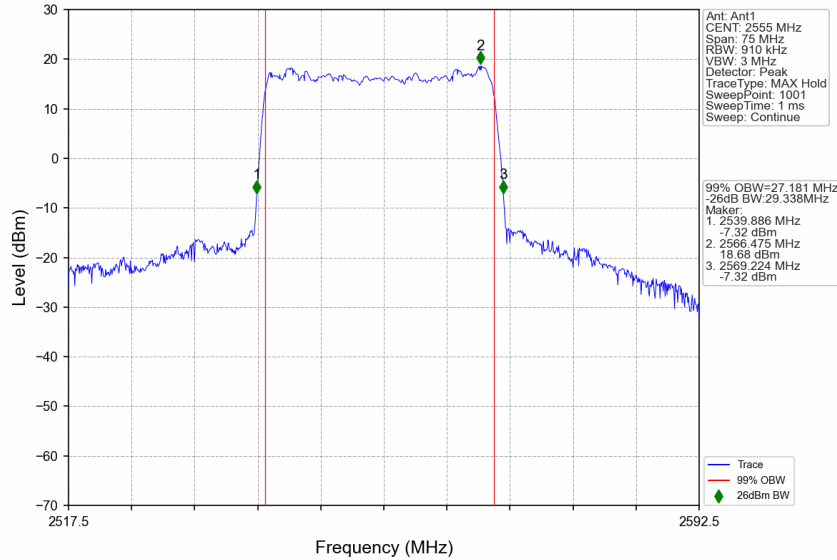


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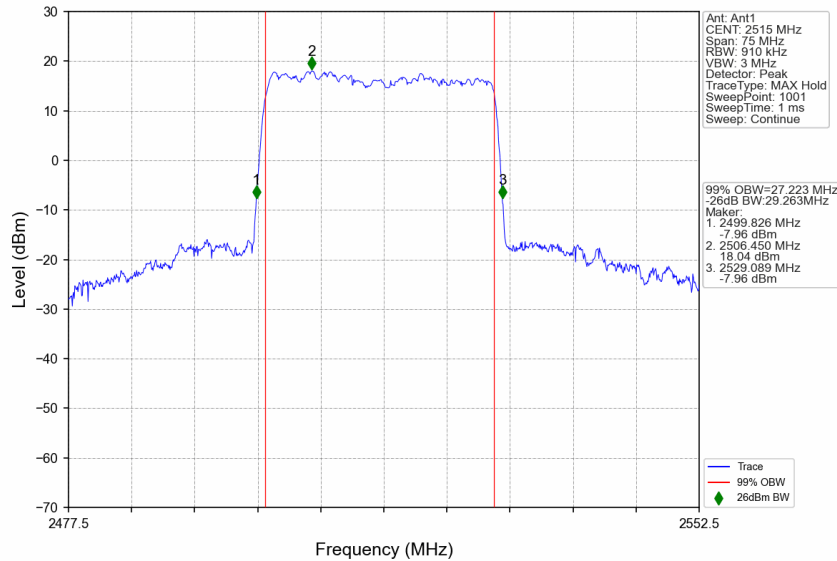
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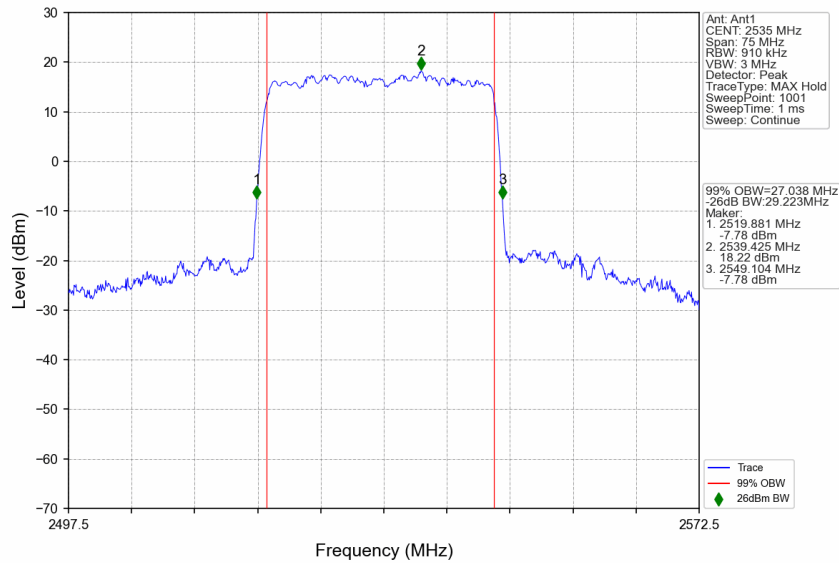


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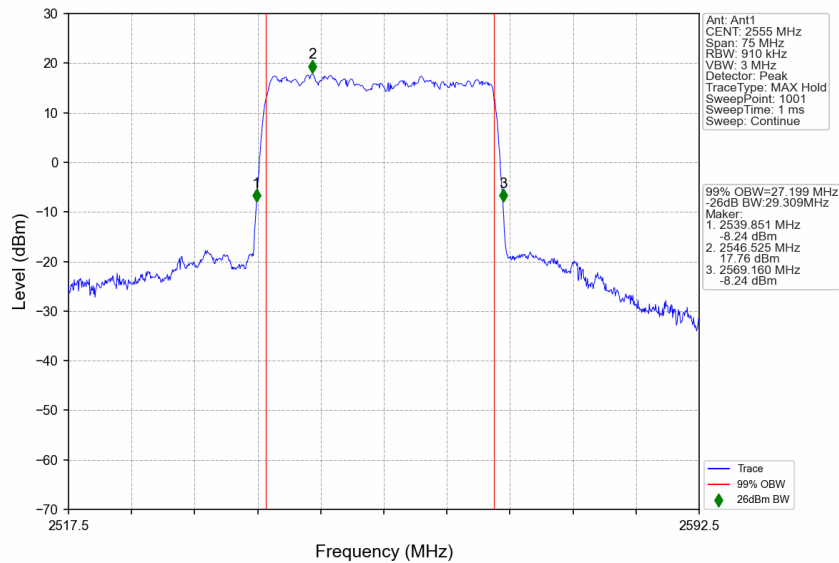
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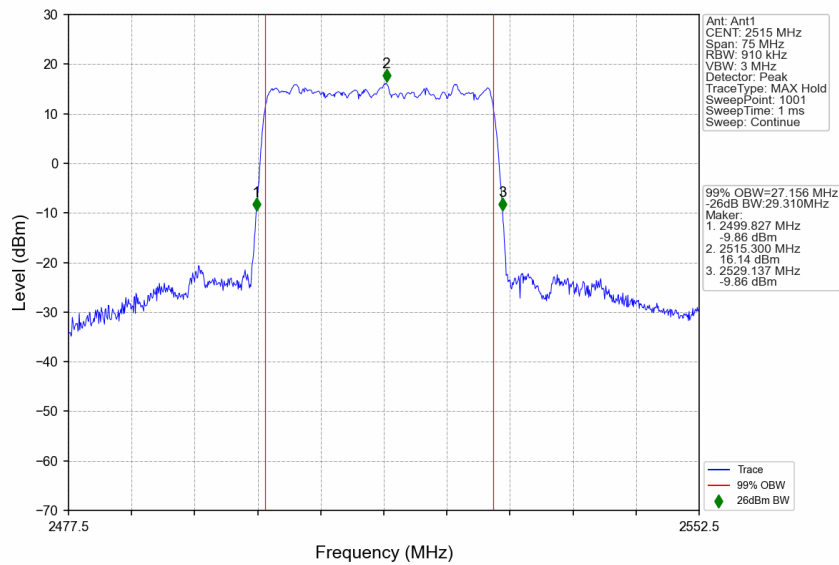


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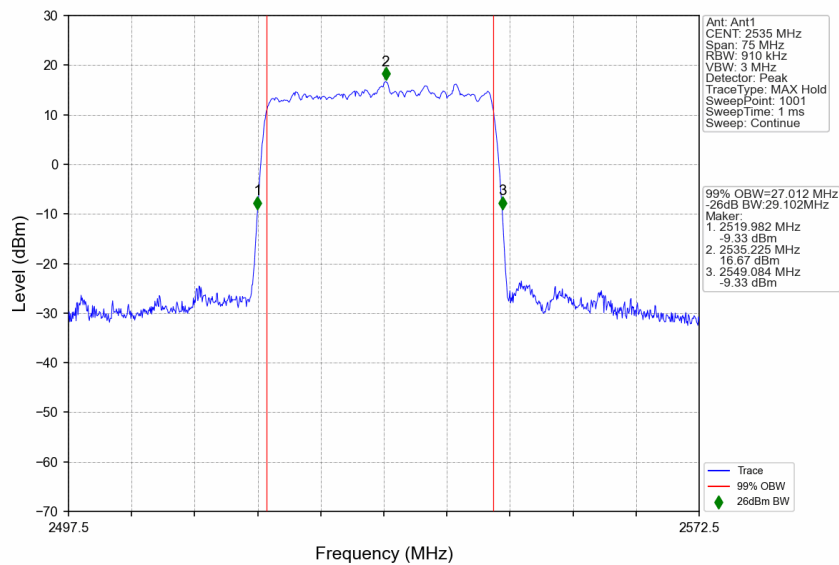
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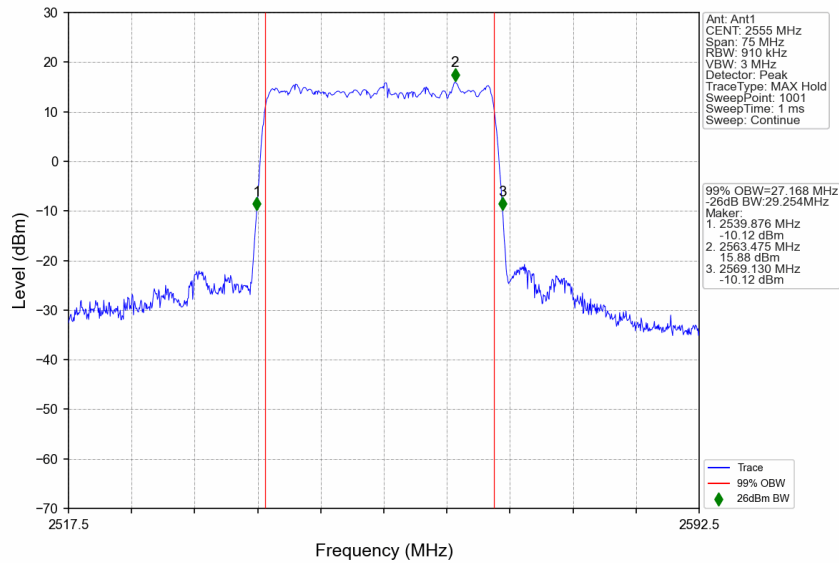


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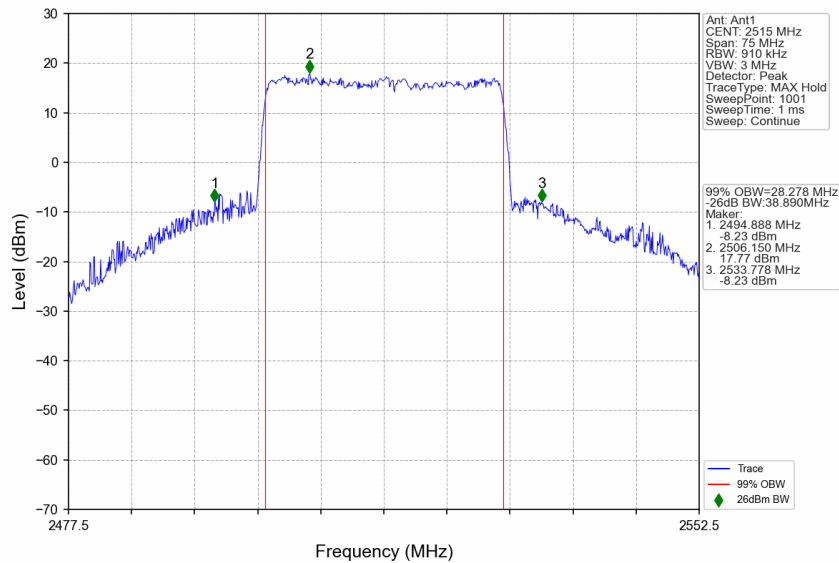
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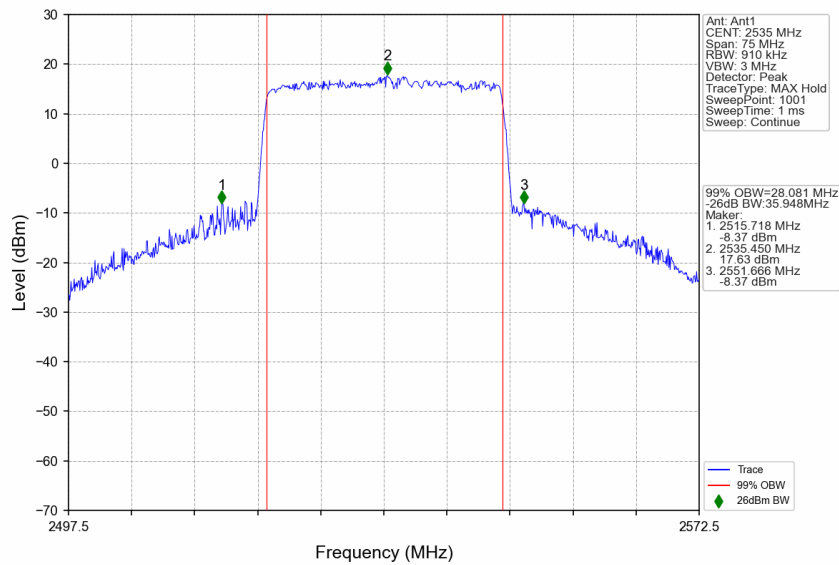


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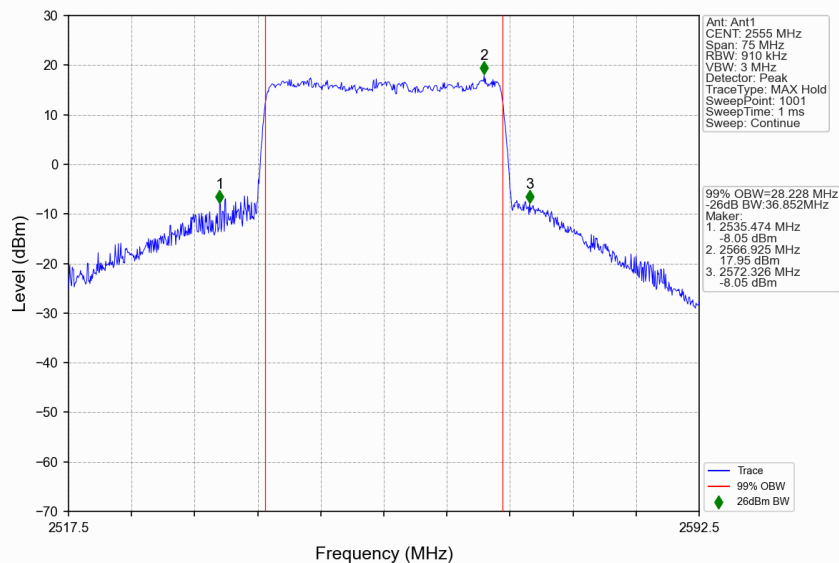
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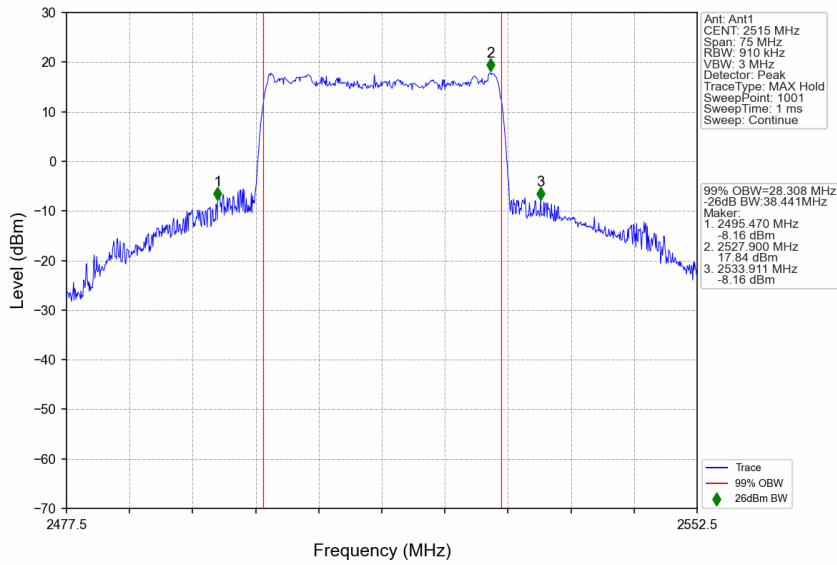
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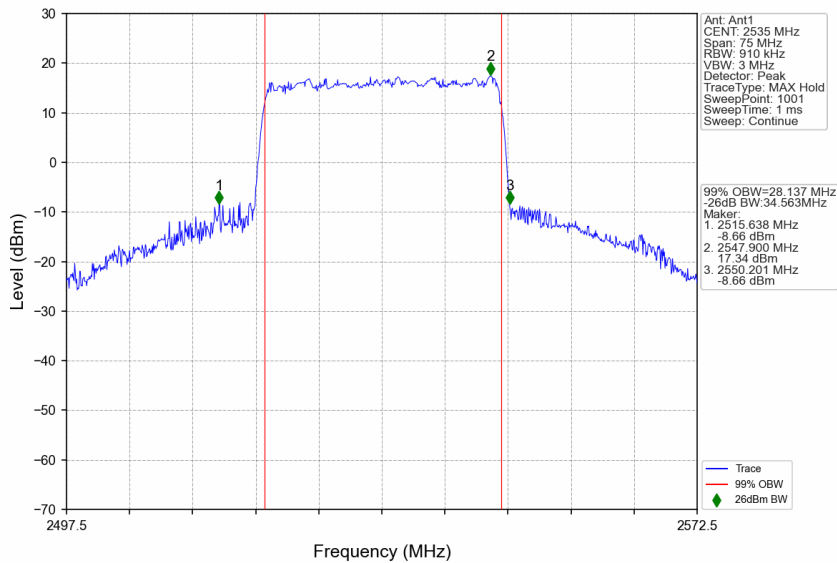
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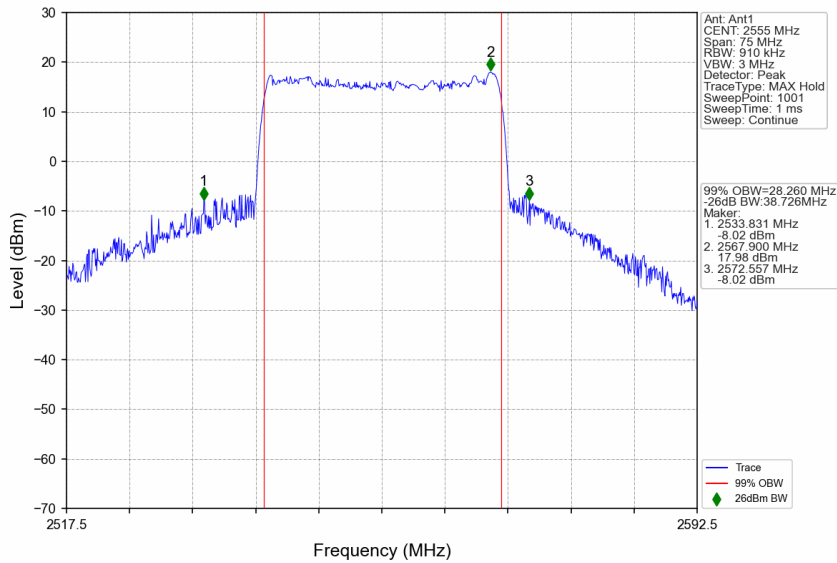


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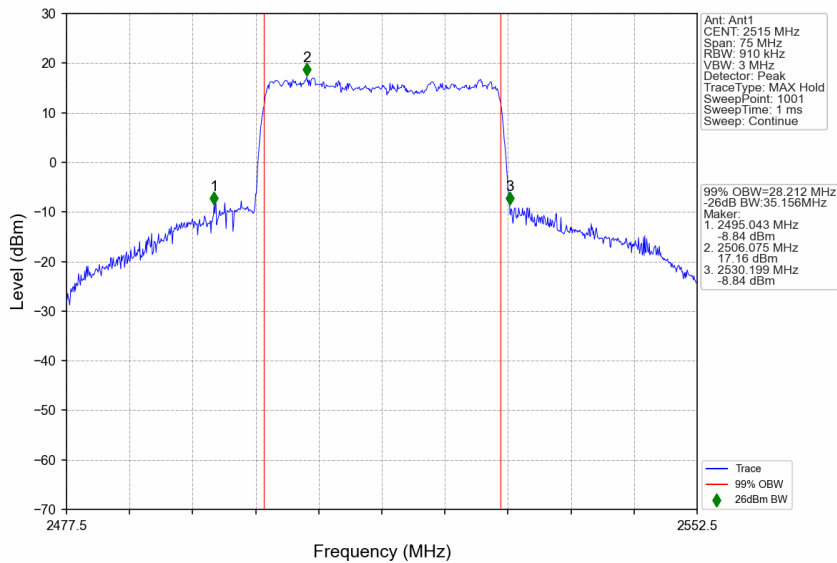
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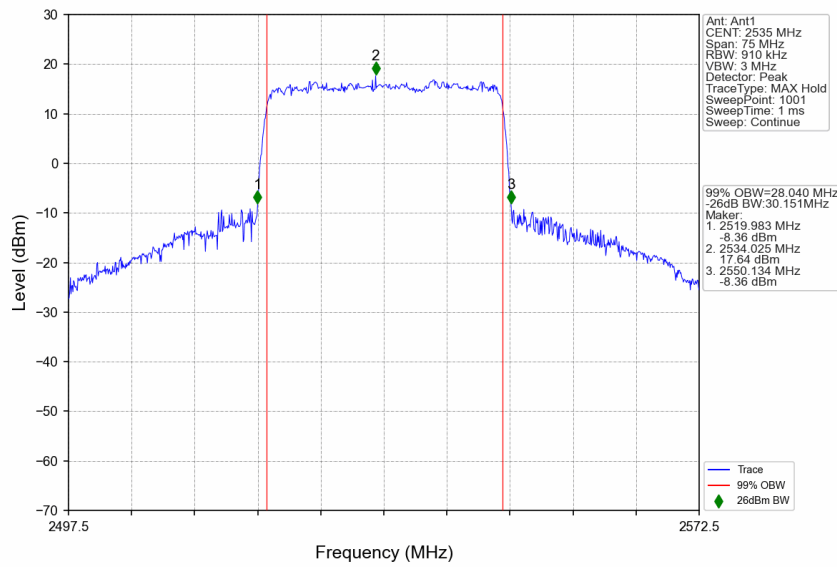
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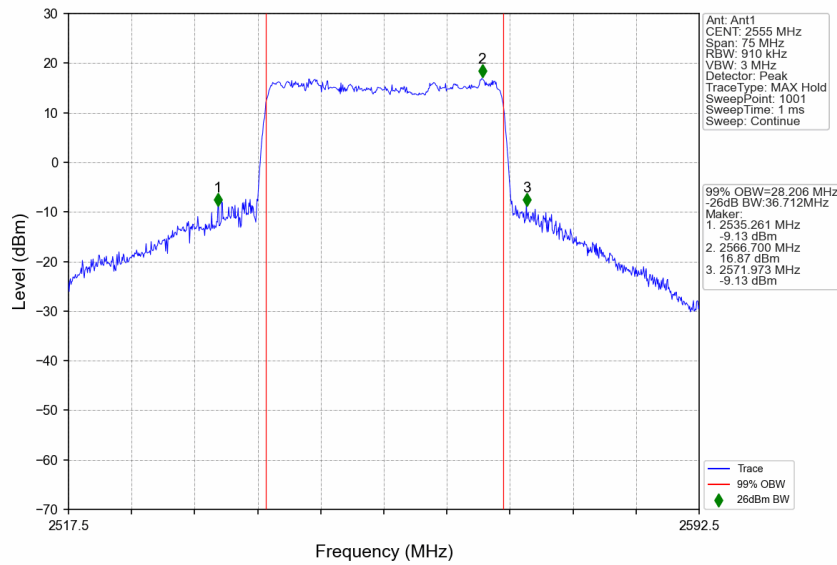
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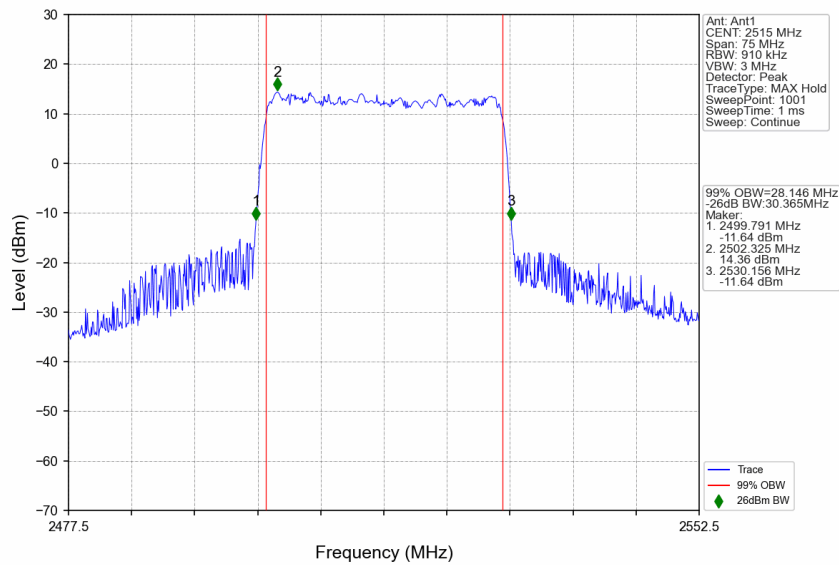


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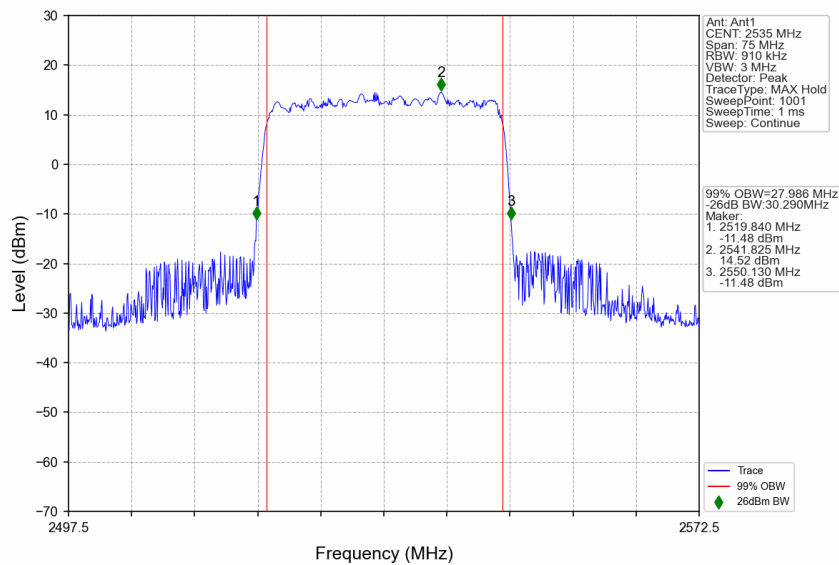
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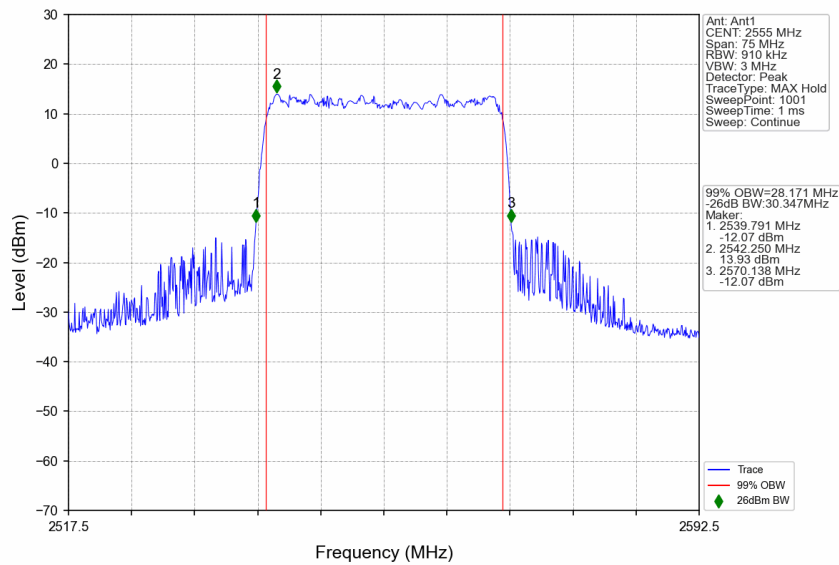


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4.14 30k_SISO_40MHz_NTNV

4.14.1 Test Result

5G NR n7 SCS=30kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2520	Outer_Full	36.37	38.83	/	Pass
	2535	Outer_Full	36.09	38.65	/	Pass
	2550	Outer_Full	36.26	38.70	/	Pass
DFT-s-OFDM QPSK	2520	Outer_Full	36.25	38.79	/	Pass
	2535	Outer_Full	36.02	38.67	/	Pass
	2550	Outer_Full	36.18	38.69	/	Pass
DFT-s-OFDM 16 QAM	2520	Outer_Full	36.20	38.83	/	Pass
	2535	Outer_Full	35.96	38.62	/	Pass
	2550	Outer_Full	36.10	38.79	/	Pass
DFT-s-OFDM 64 QAM	2520	Outer_Full	36.28	39.05	/	Pass
	2535	Outer_Full	36.12	38.77	/	Pass
	2550	Outer_Full	36.20	38.72	/	Pass
DFT-s-OFDM 256 QAM	2520	Outer_Full	36.15	38.82	/	Pass
	2535	Outer_Full	35.92	38.61	/	Pass
	2550	Outer_Full	36.07	38.73	/	Pass
CP-OFDM QPSK	2520	Outer_Full	38.44	53.05	/	Pass
	2535	Outer_Full	38.20	42.89	/	Pass
	2550	Outer_Full	38.36	47.09	/	Pass
CP-OFDM 16 QAM	2520	Outer_Full	38.43	48.92	/	Pass
	2535	Outer_Full	38.14	43.23	/	Pass
	2550	Outer_Full	38.33	43.52	/	Pass
CP-OFDM 64 QAM	2520	Outer_Full	38.47	48.52	/	Pass
	2535	Outer_Full	38.27	40.86	/	Pass
	2550	Outer_Full	38.42	42.35	/	Pass
CP-OFDM 256 QAM	2520	Outer_Full	38.22	40.94	/	Pass
	2535	Outer_Full	37.93	40.87	/	Pass
	2550	Outer_Full	38.09	41.00	/	Pass

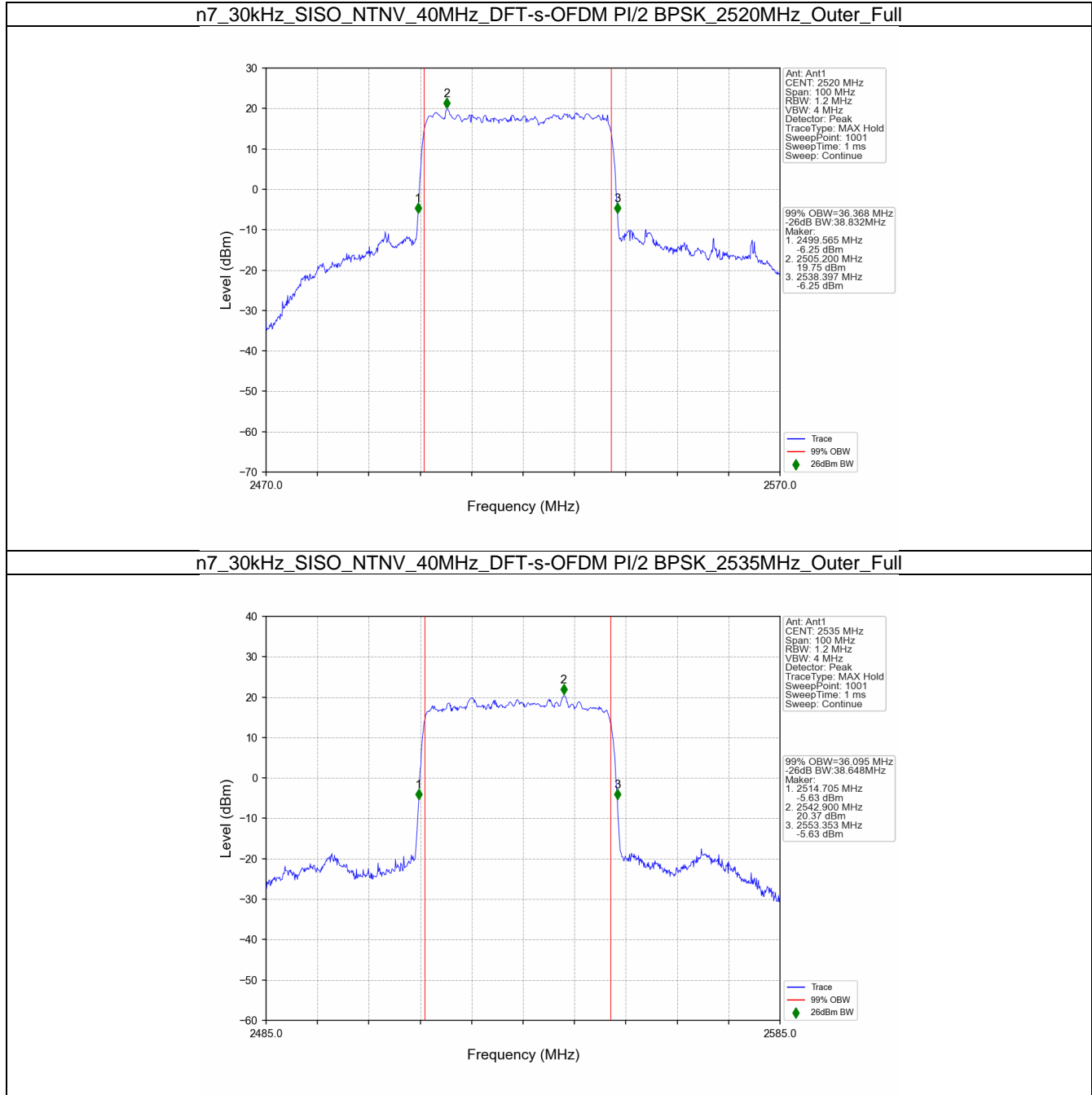


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4.14.2 Test Graph

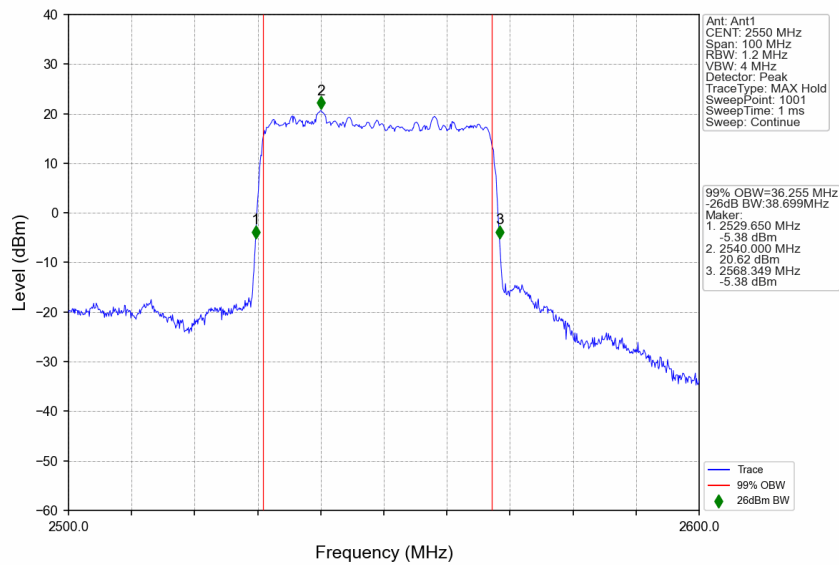


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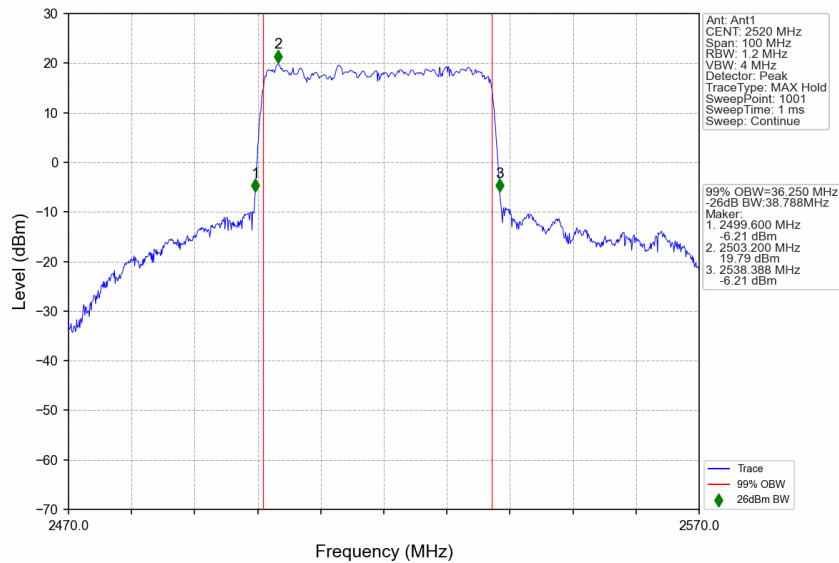
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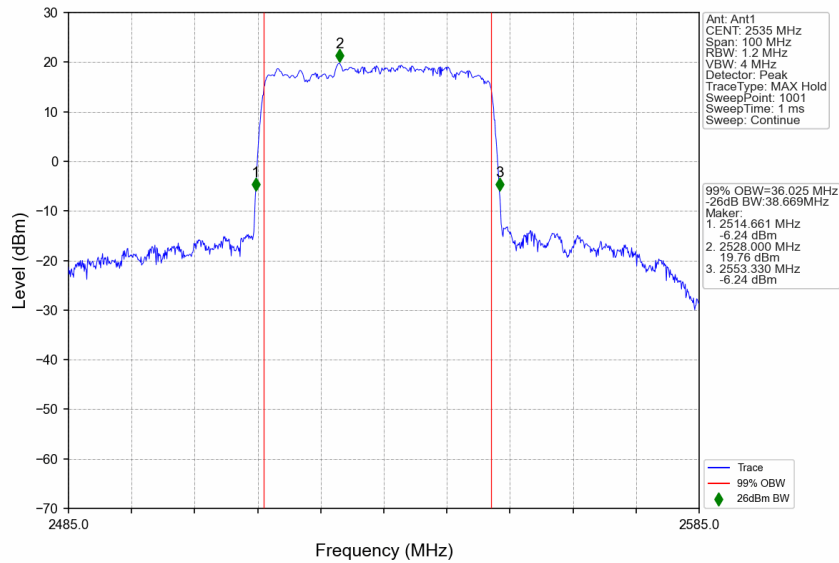


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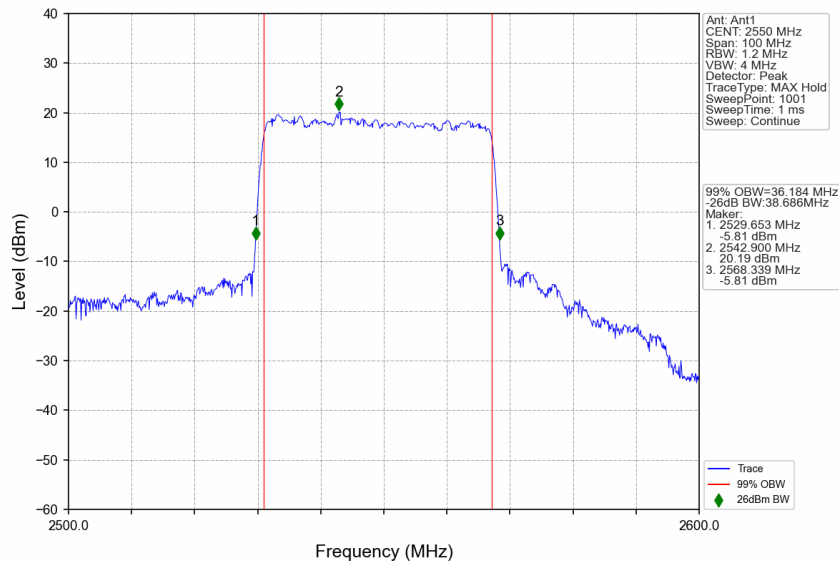
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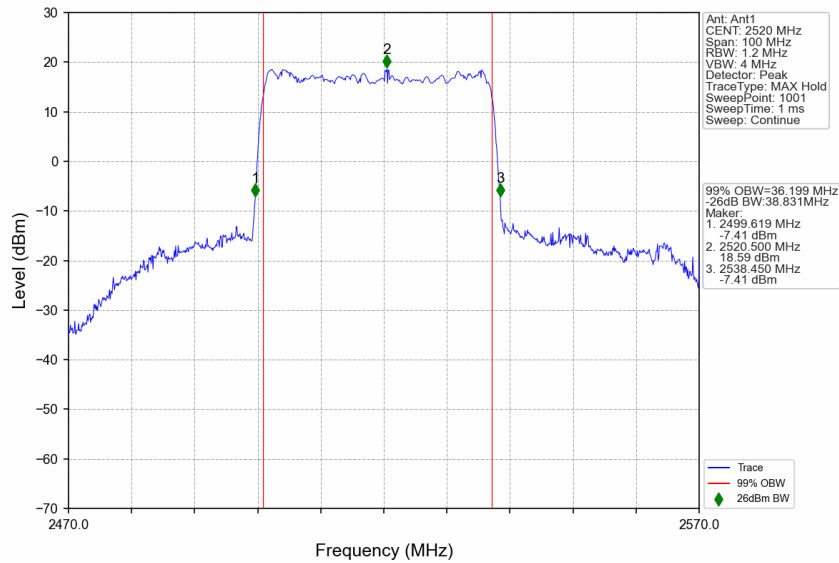


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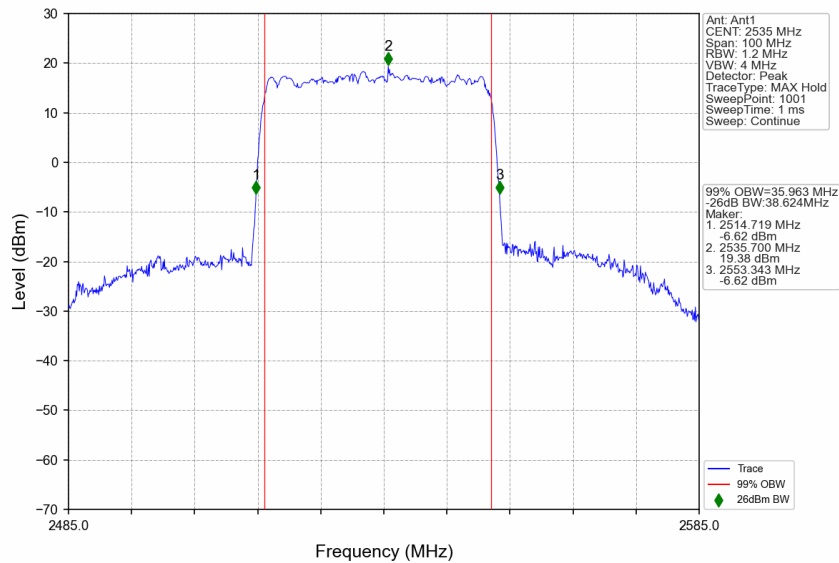
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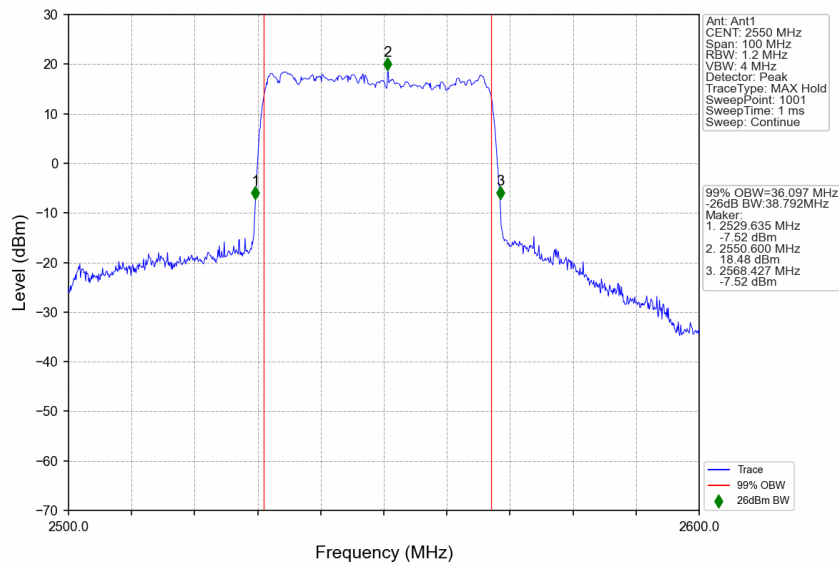


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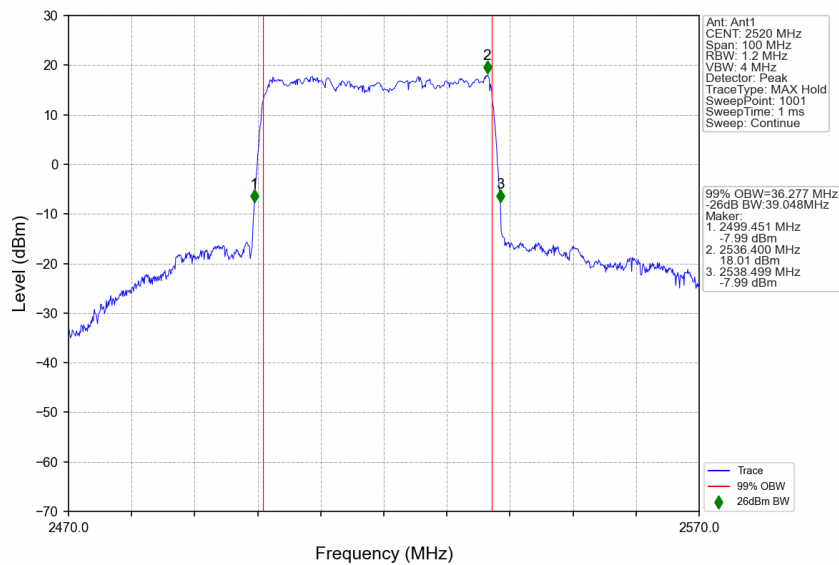
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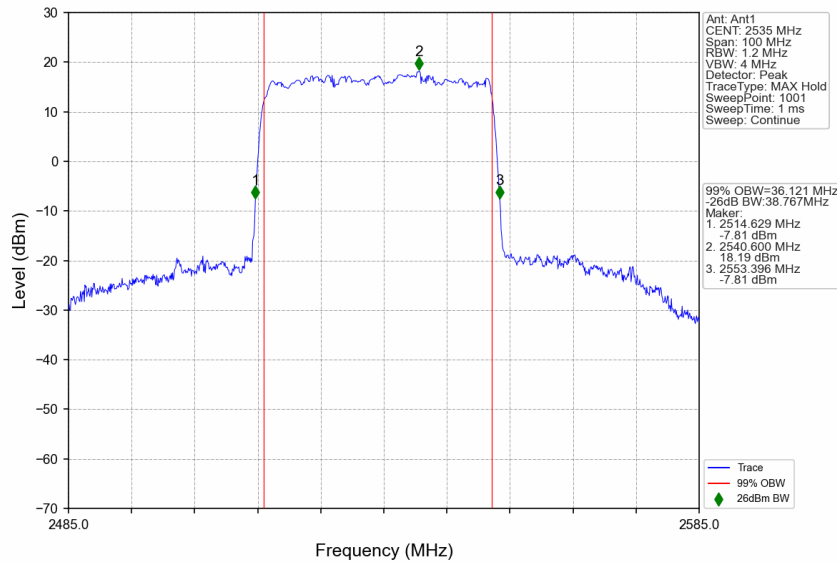


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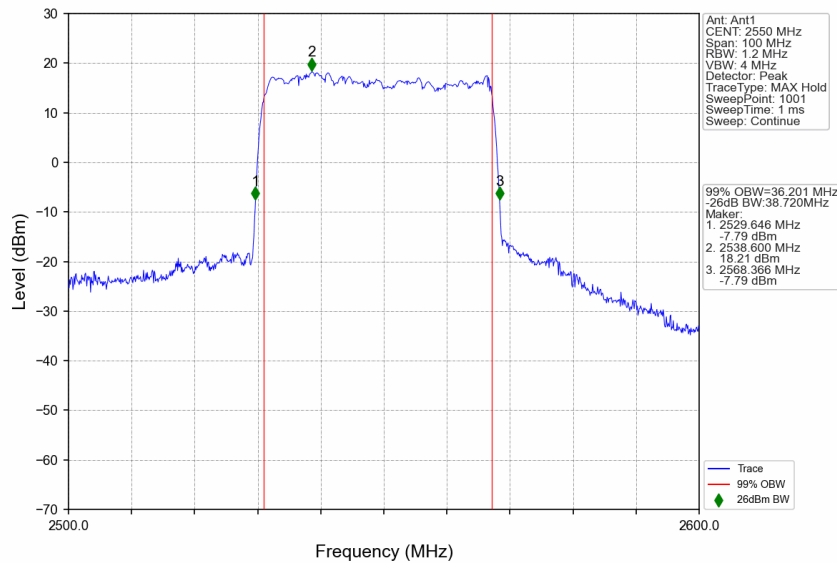
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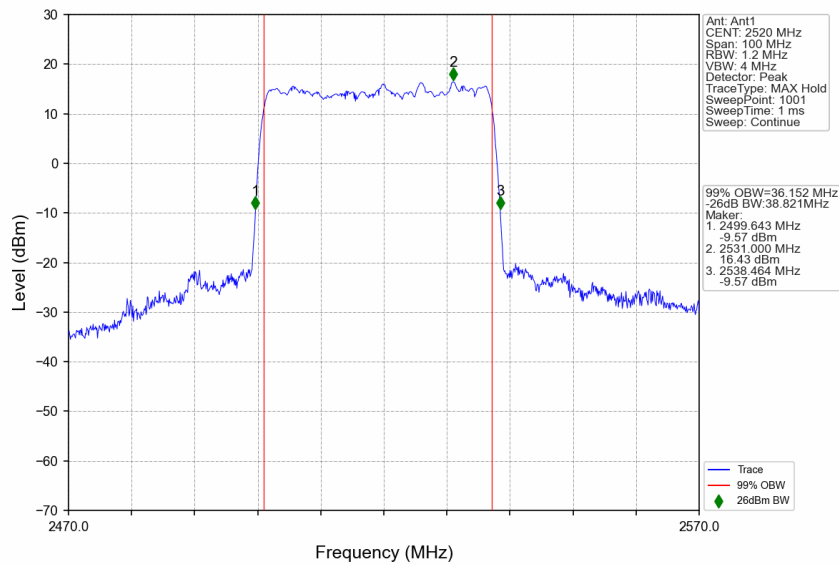


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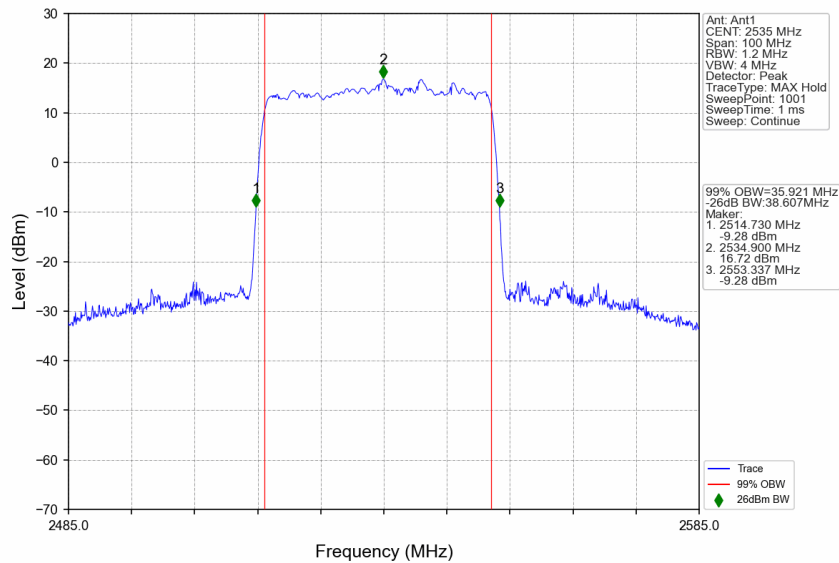
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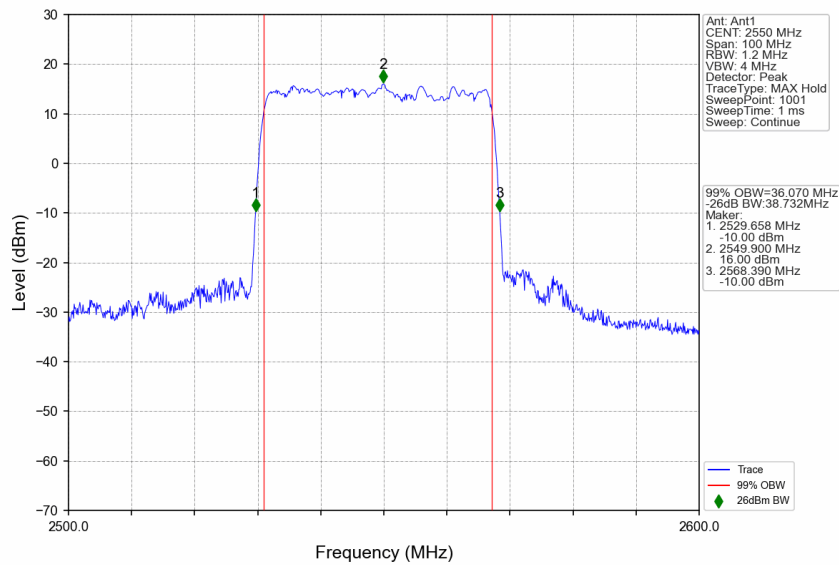


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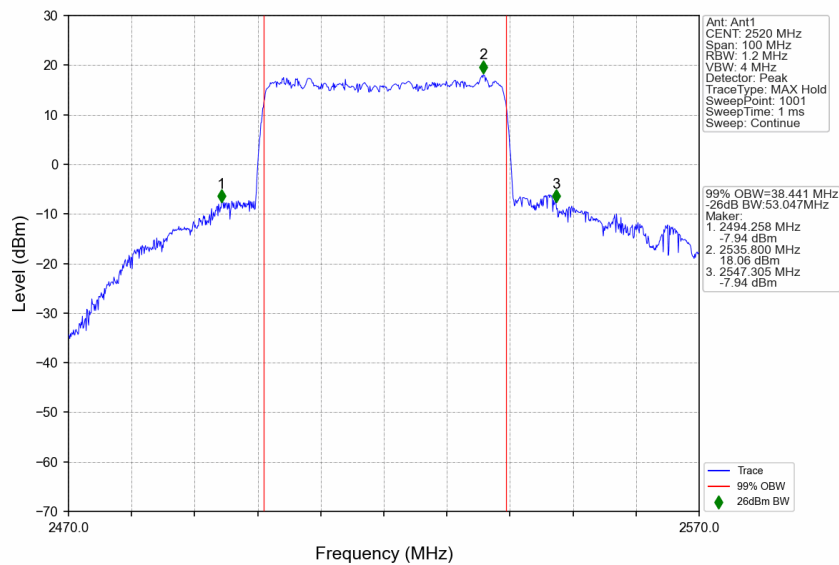
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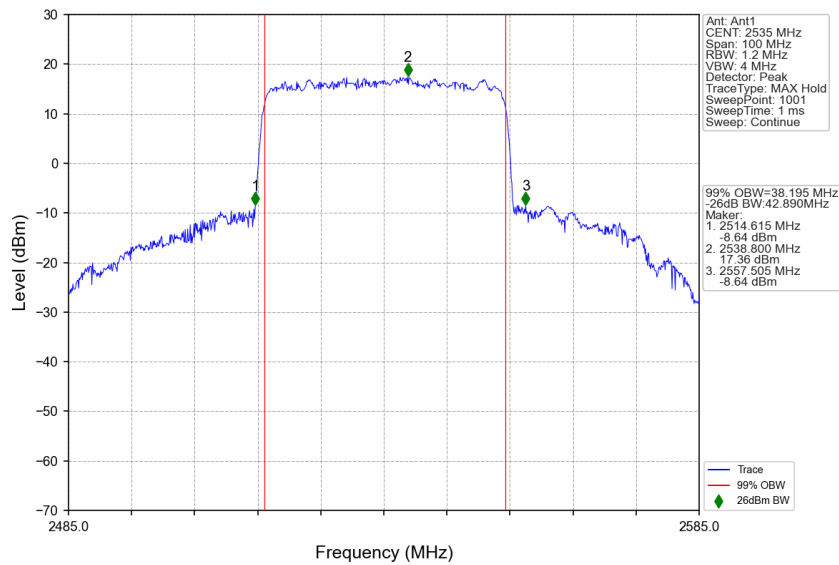


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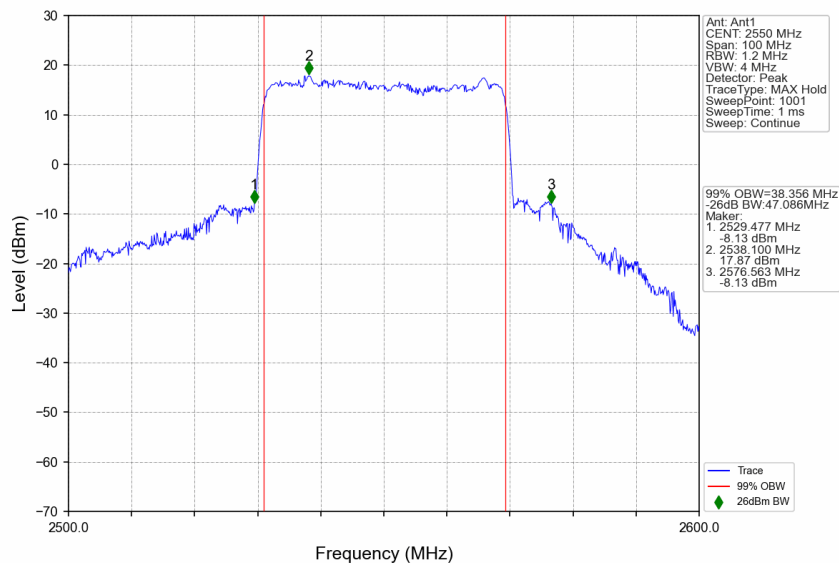
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n7_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2535MHz_Outer_Full



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