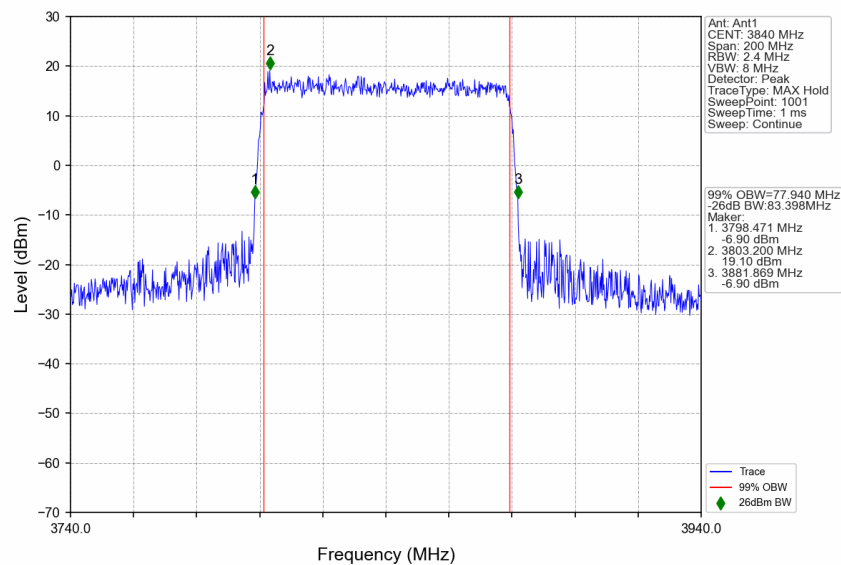


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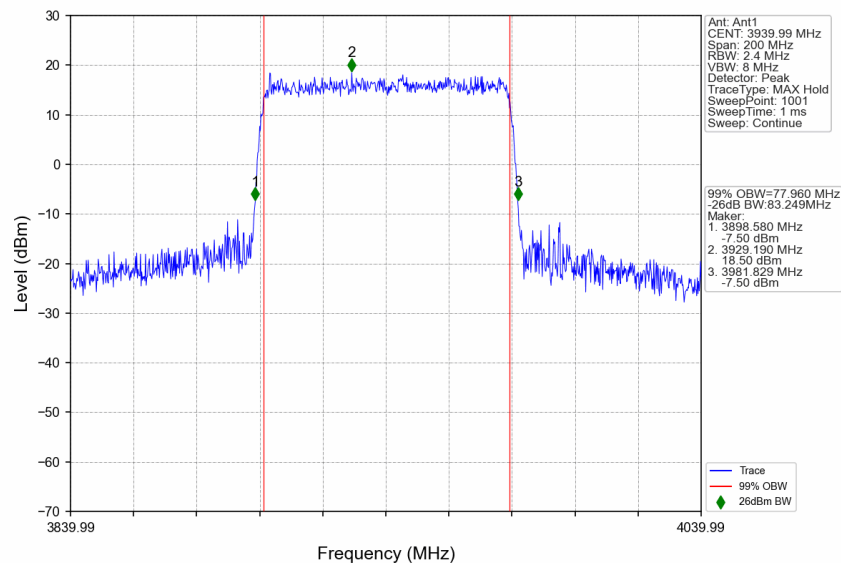
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n77a_30kHz_SISO_NTNV_80MHz_CP-OFDM_64_QAM_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_80MHz_CP-OFDM_64_QAM_3939.99MHz_Outer_Full



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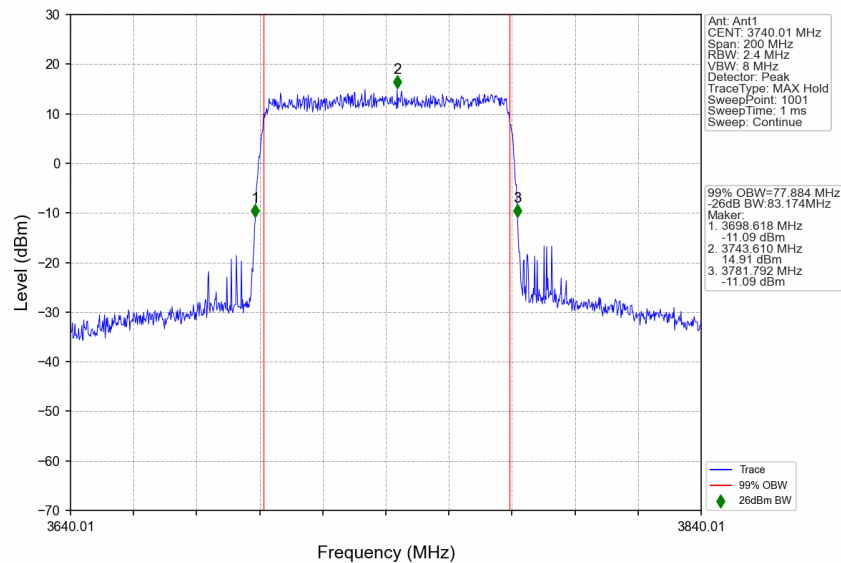
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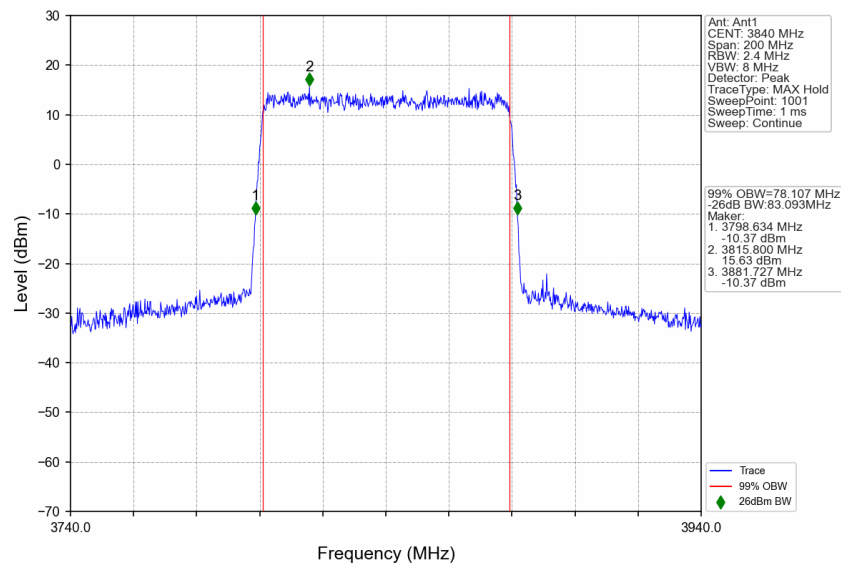
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n77a_30kHz_SISO_NTNV_80MHz_CP-OFDM_256_QAM_3740.01MHz_Outer_Full



n77a_30kHz_SISO_NTNV_80MHz_CP-OFDM_256_QAM_3840MHz_Outer_Full



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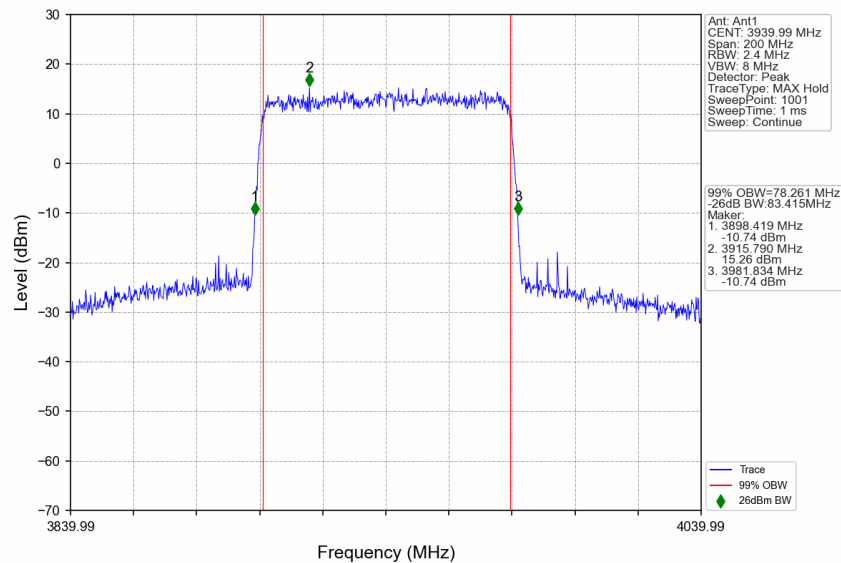
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n77a_30kHz_SISO_NTNV_80MHz_CP-OFDM_256_QAM_3939.99MHz_Outer_Full



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4.18 30k_SISO_90MHz_NTNV

4.18.1 Test Result

5G NR n77a SCS=30kHz SISO 90MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3745.02	Outer Full	87.29	93.18	/	Pass
	3840	Outer Full	87.45	93.03	/	Pass
	3934.98	Outer Full	87.33	93.27	/	Pass
DFT-s-OFDM QPSK	3745.02	Outer Full	87.45	92.99	/	Pass
	3840	Outer Full	87.20	93.07	/	Pass
	3934.98	Outer Full	87.18	93.01	/	Pass
DFT-s-OFDM 16 QAM	3745.02	Outer Full	87.31	93.36	/	Pass
	3840	Outer Full	87.31	92.88	/	Pass
	3934.98	Outer Full	87.44	93.18	/	Pass
DFT-s-OFDM 64 QAM	3745.02	Outer Full	87.25	93.06	/	Pass
	3840	Outer Full	87.50	93.04	/	Pass
	3934.98	Outer Full	87.22	93.13	/	Pass
DFT-s-OFDM 256 QAM	3745.02	Outer Full	87.64	93.17	/	Pass
	3840	Outer Full	87.25	93.16	/	Pass
	3934.98	Outer Full	87.17	93.01	/	Pass
CP-OFDM QPSK	3745.02	Outer Full	88.05	94.11	/	Pass
	3840	Outer Full	88.09	93.87	/	Pass
	3934.98	Outer Full	88.35	93.84	/	Pass
CP-OFDM 16 QAM	3745.02	Outer Full	88.05	93.81	/	Pass
	3840	Outer Full	88.29	93.77	/	Pass
	3934.98	Outer Full	87.94	93.79	/	Pass
CP-OFDM 64 QAM	3745.02	Outer Full	88.06	93.42	/	Pass
	3840	Outer Full	87.94	93.79	/	Pass
	3934.98	Outer Full	88.08	93.64	/	Pass
CP-OFDM 256 QAM	3745.02	Outer Full	88.01	93.97	/	Pass
	3840	Outer Full	88.11	93.86	/	Pass
	3934.98	Outer Full	87.99	93.83	/	Pass



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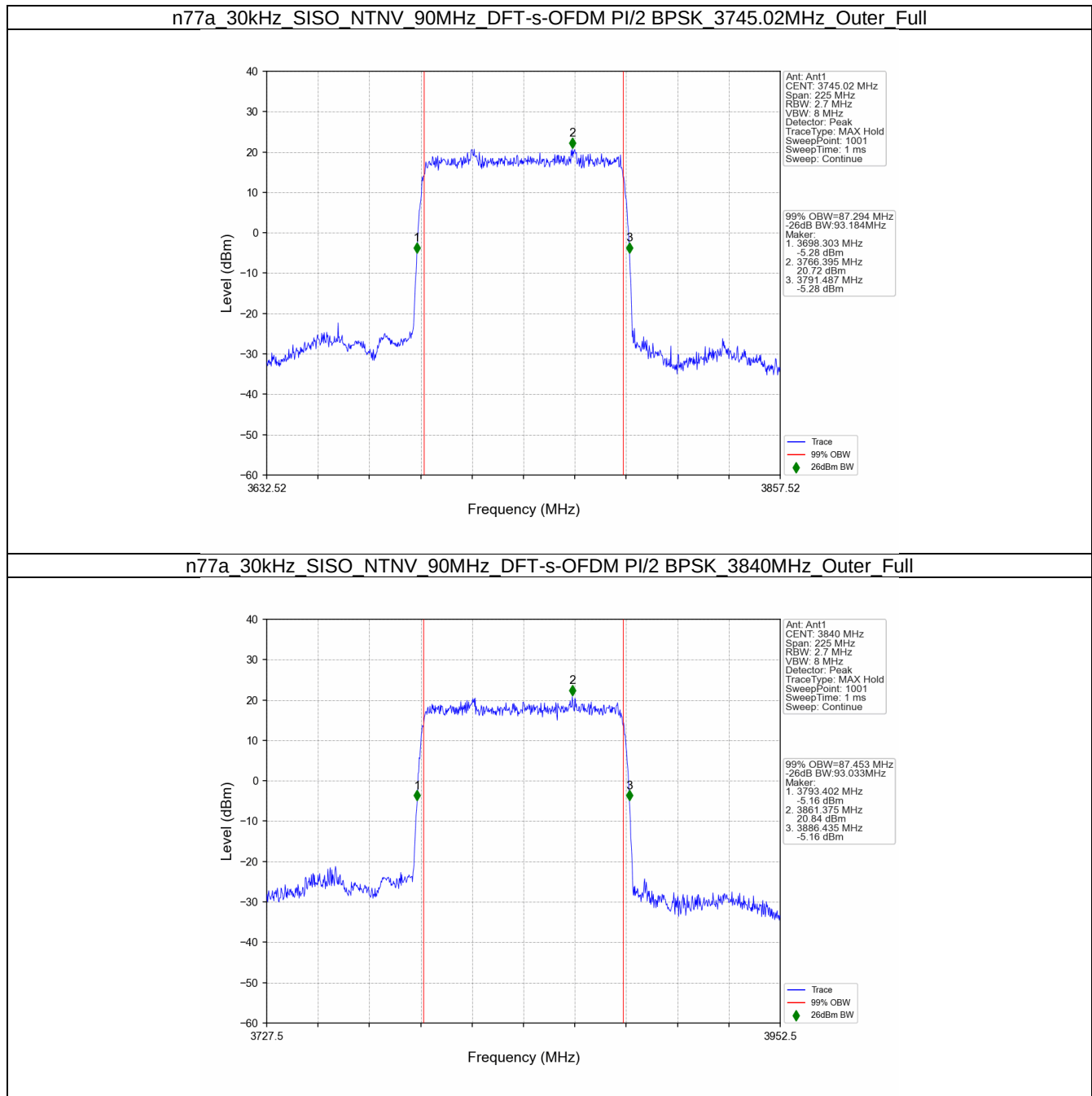
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4.18.2 Test Graph



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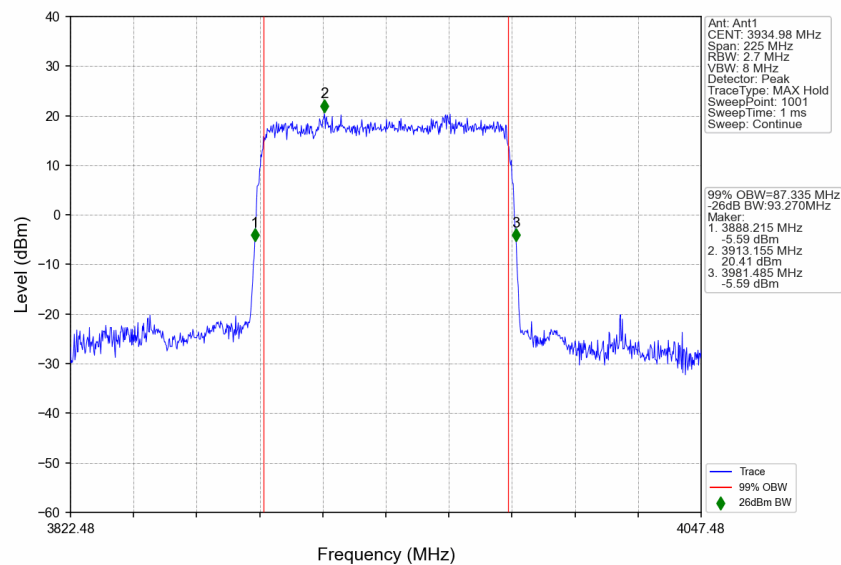
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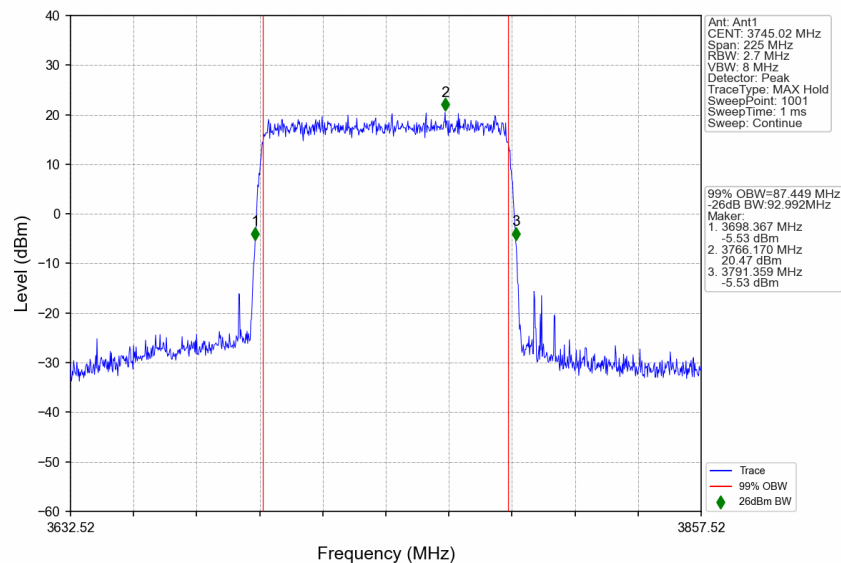
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n77a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3934.98MHz_Outer_Full



n77a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM QPSK_3745.02MHz_Outer_Full



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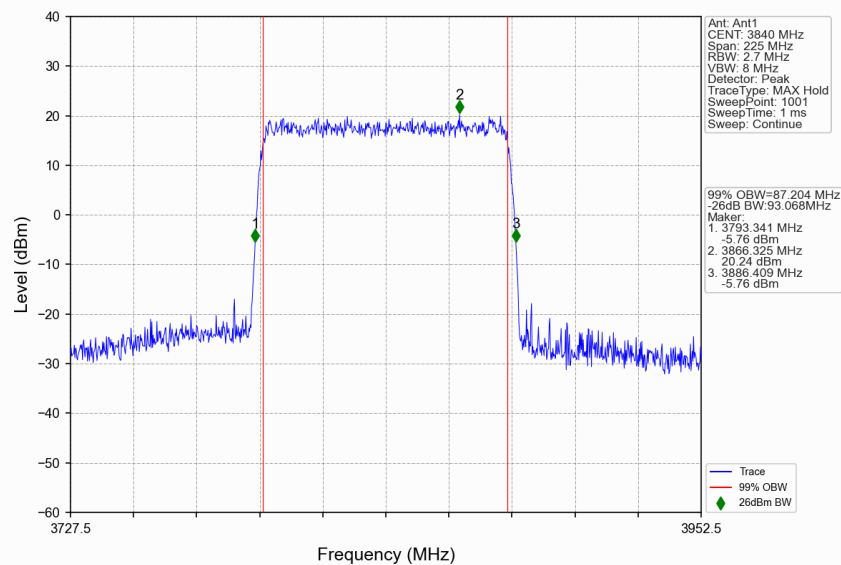
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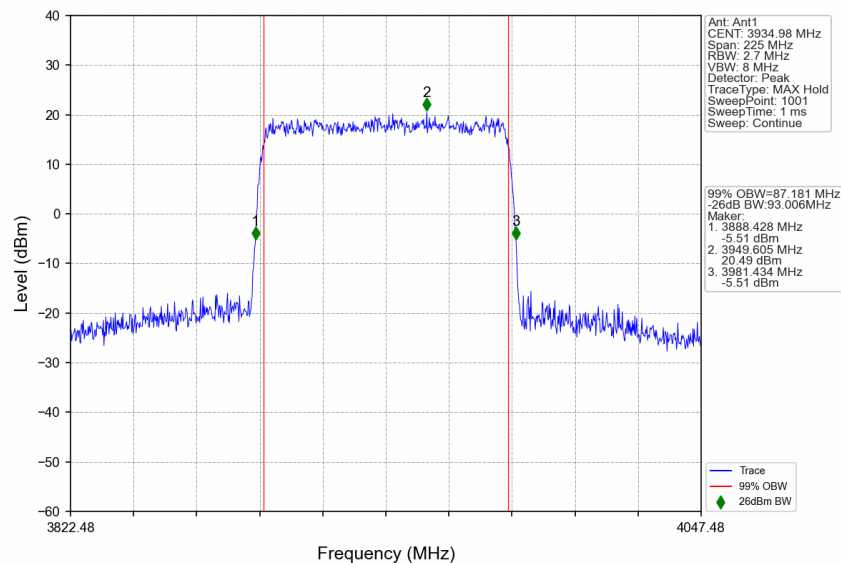
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n77a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM QPSK_3840MHz_Outer_Full



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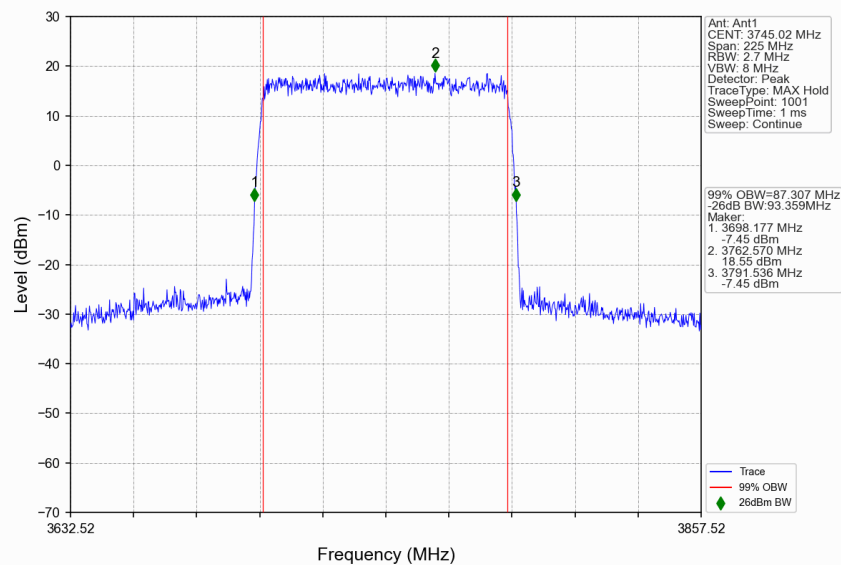
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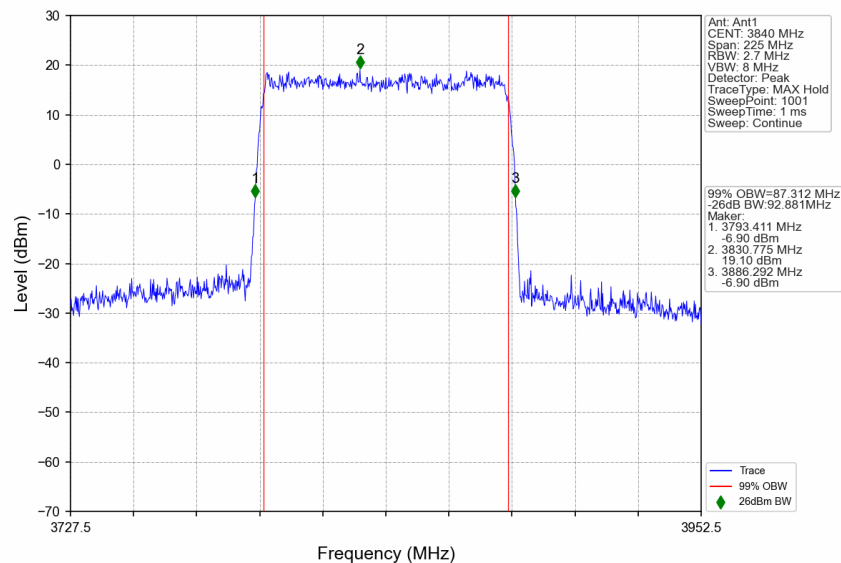
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n77a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_16_QAM_3745.02MHz_Outer_Full



n77a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_16_QAM_3840MHz_Outer_Full



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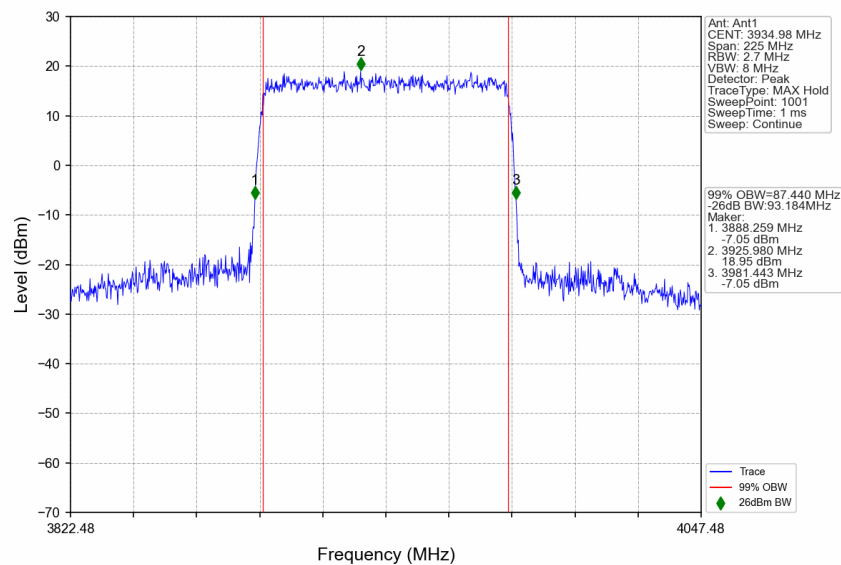
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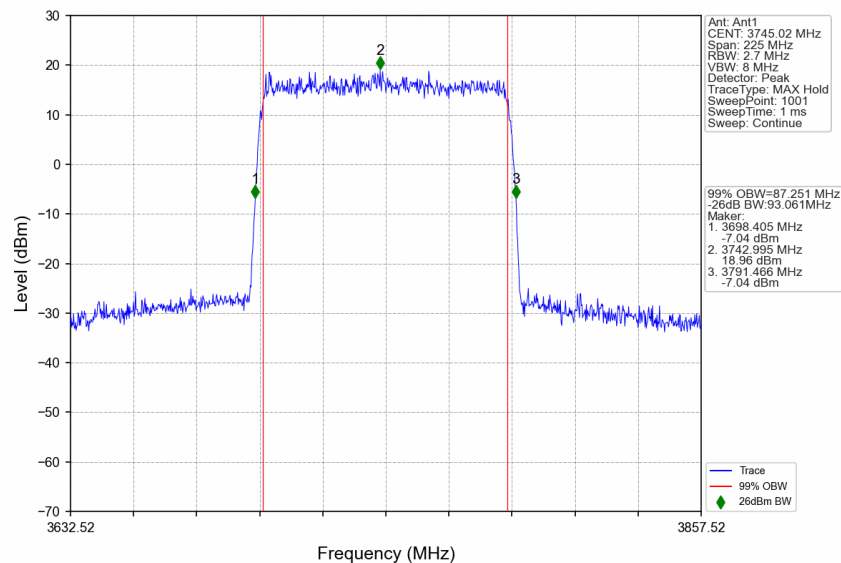
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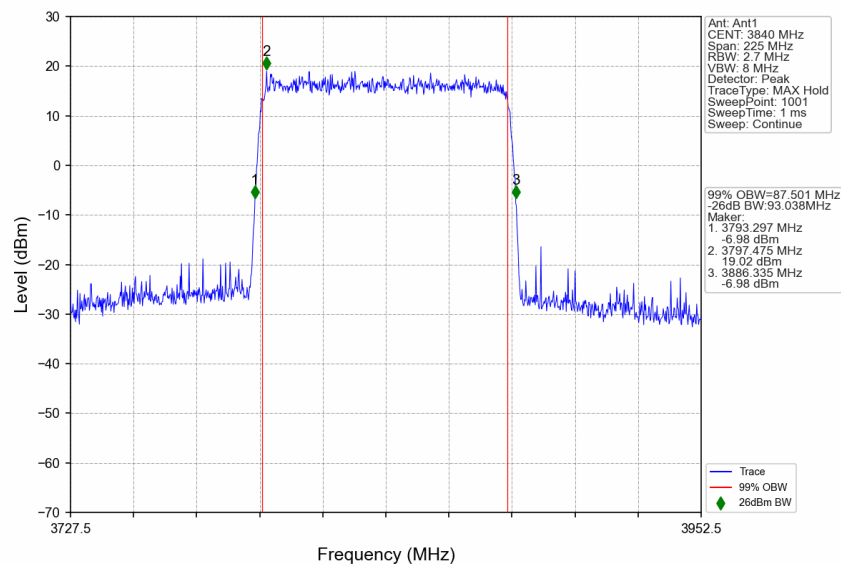
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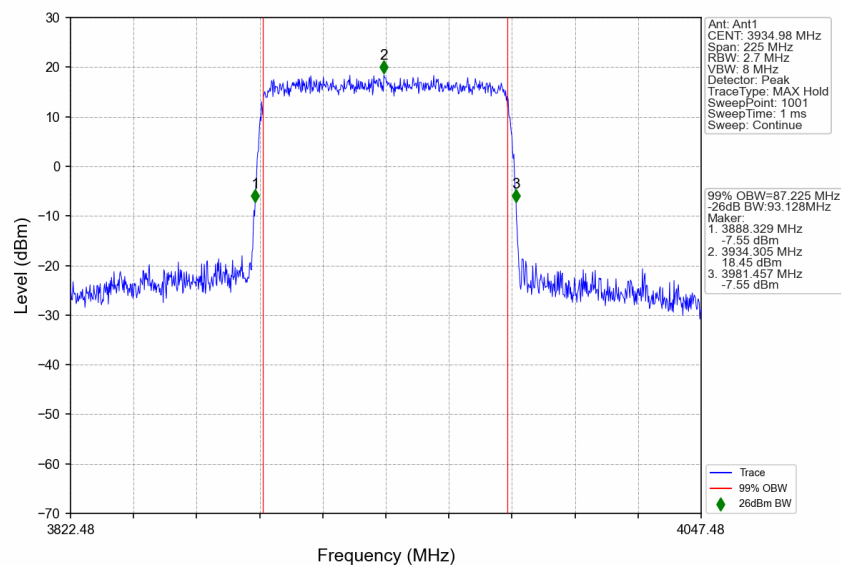
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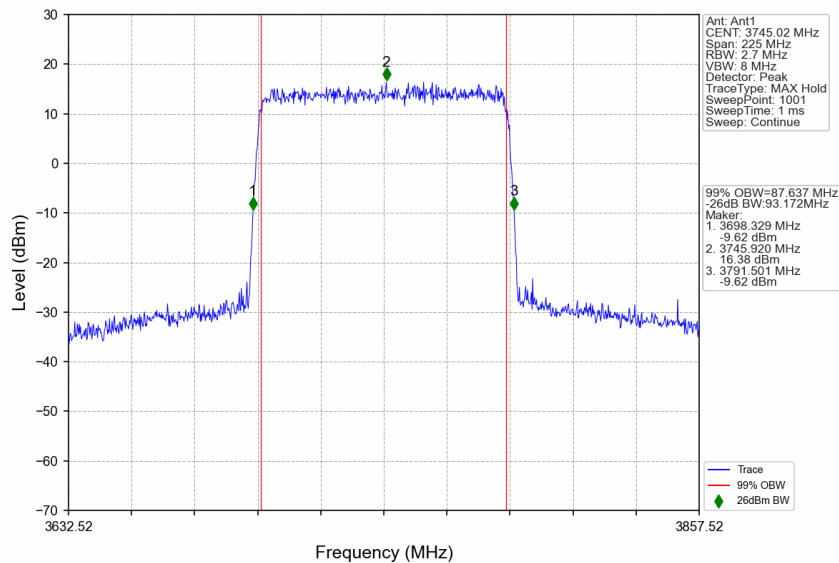
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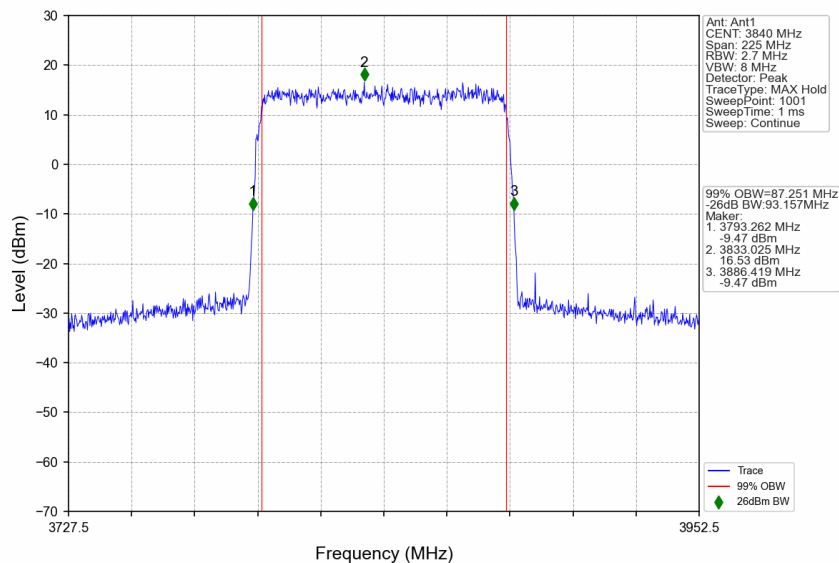
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n77a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256_QAM_3745.02MHz_Outer_Full



n77a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256_QAM_3840MHz_Outer_Full



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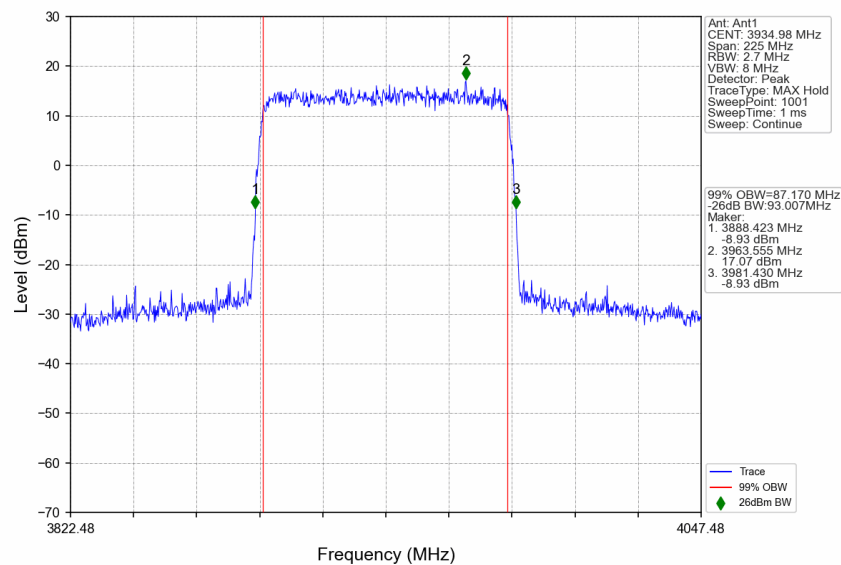
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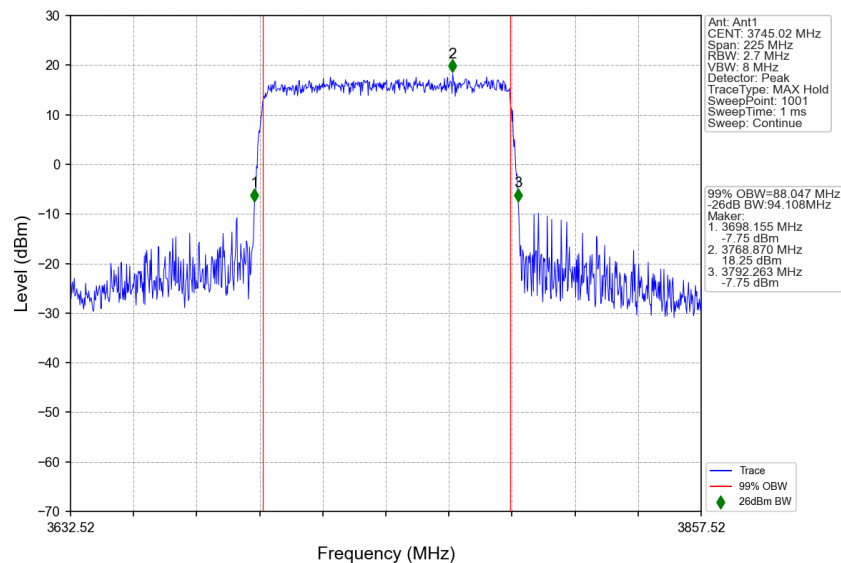
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n77a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256_QAM_3934.98MHz_Outer_Full



n77a_30kHz_SISO_NTNV_90MHz_CP-OFDM_QPSK_3745.02MHz_Outer_Full



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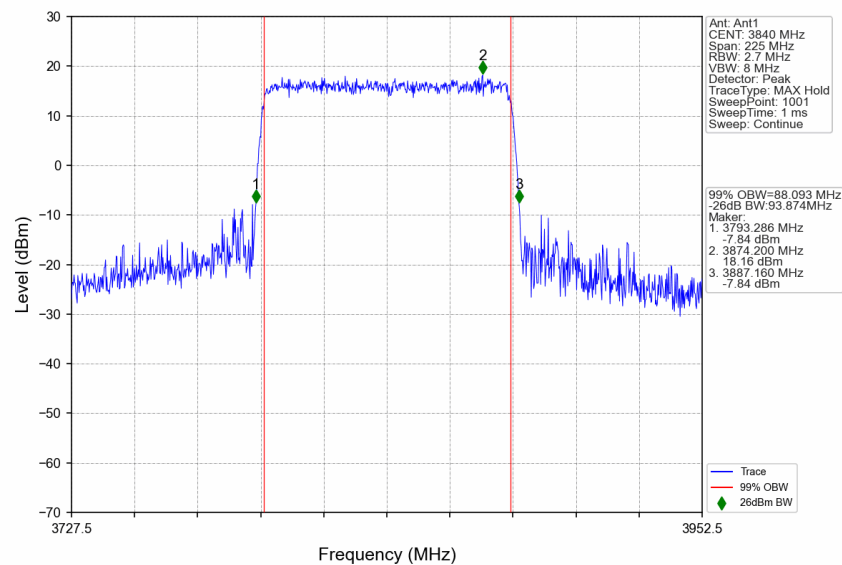
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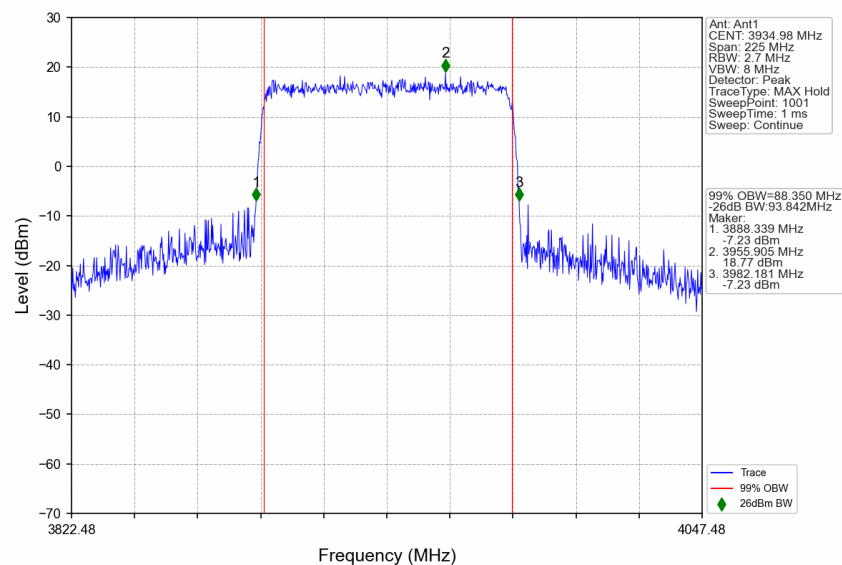
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n77a_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3934.98MHz_Outer_Full



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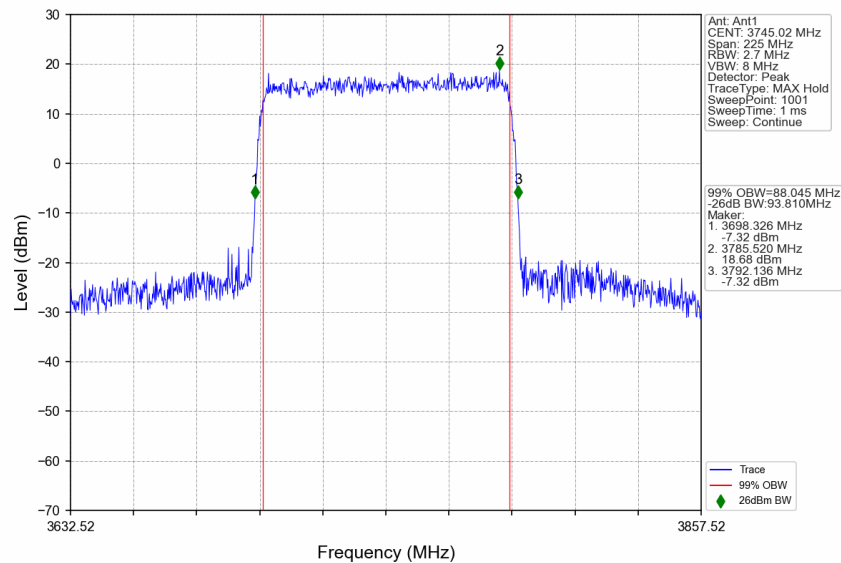
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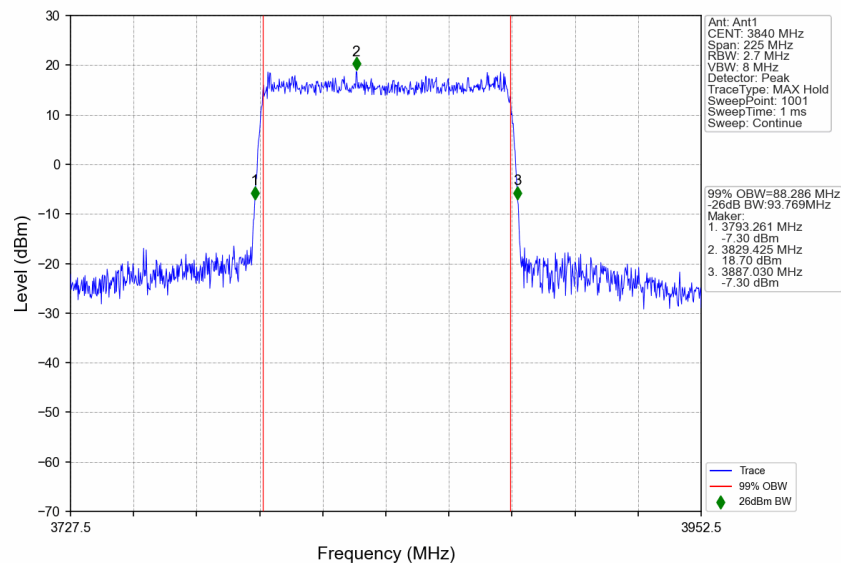
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n77a_30kHz_SISO_NTNV_90MHz_CP-OFDM_16_QAM_3745.02MHz_Outer_Full



n77a_30kHz_SISO_NTNV_90MHz_CP-OFDM_16_QAM_3840MHz_Outer_Full



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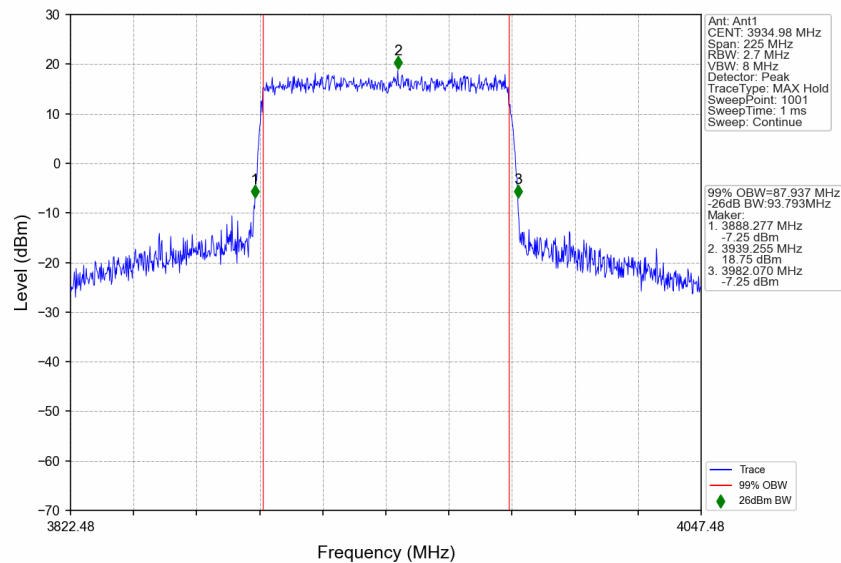
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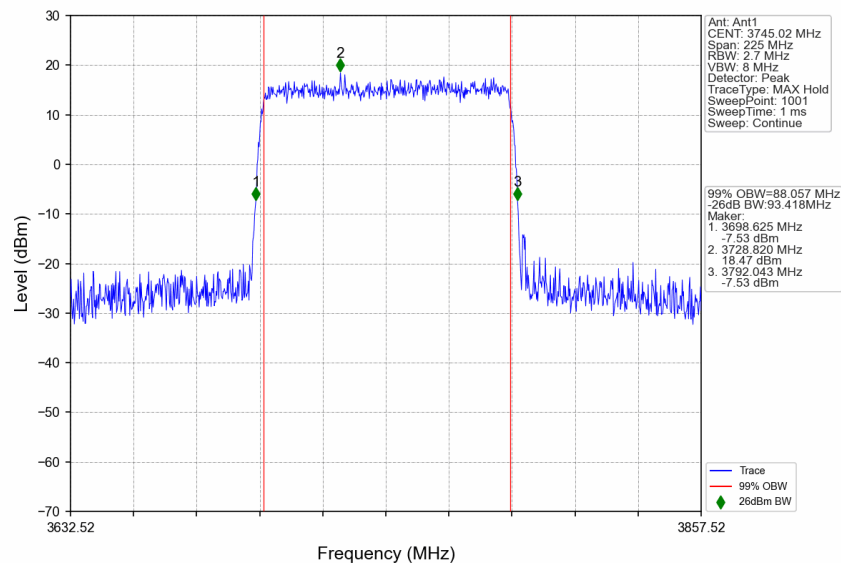
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n77a_30kHz_SISO_NTNV_90MHz_CP-OFDM 16 QAM_3934.98MHz_Outer_Full



n77a_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_3745.02MHz_Outer_Full



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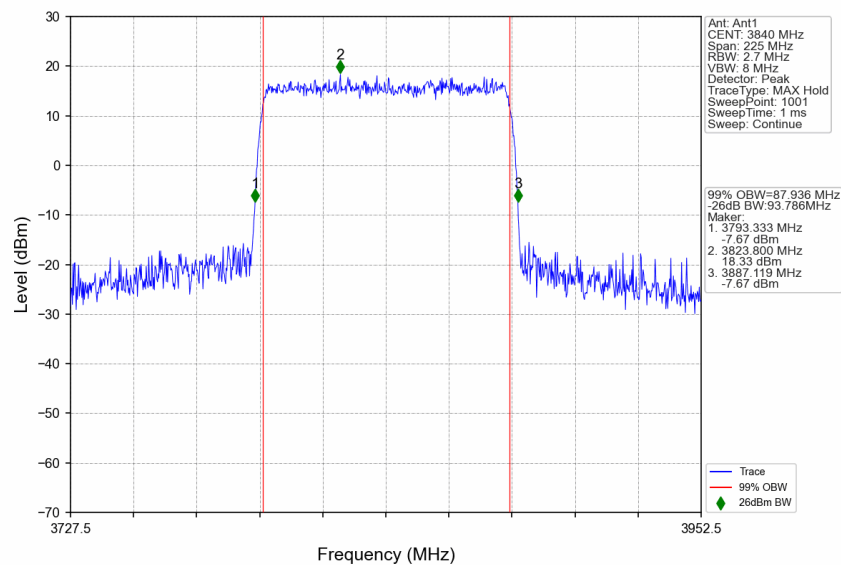
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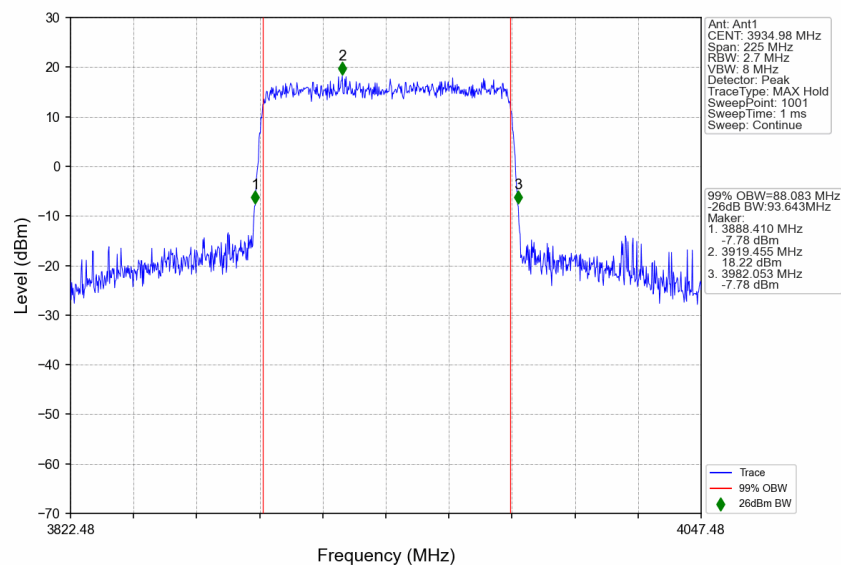
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n77a_30kHz_SISO_NTNV_90MHz_CP-OFDM_64_QAM_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_90MHz_CP-OFDM_64_QAM_3934.98MHz_Outer_Full



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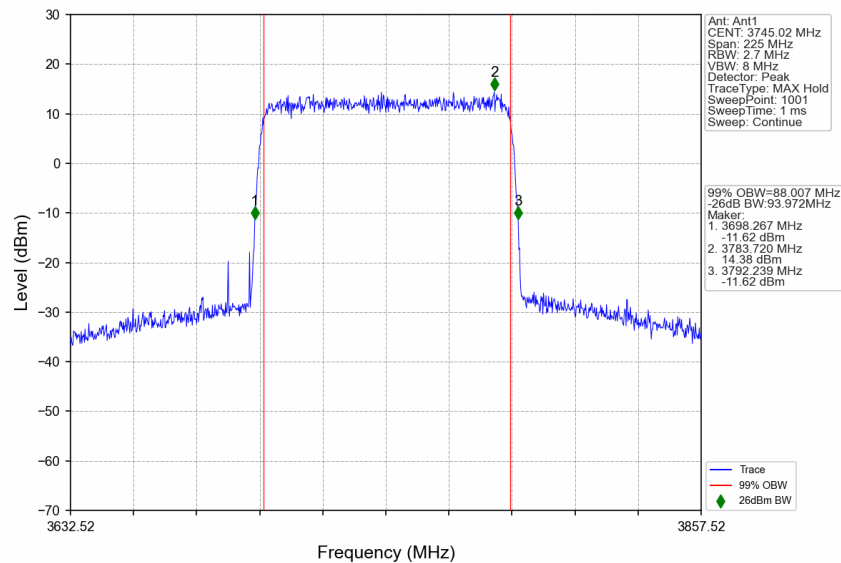
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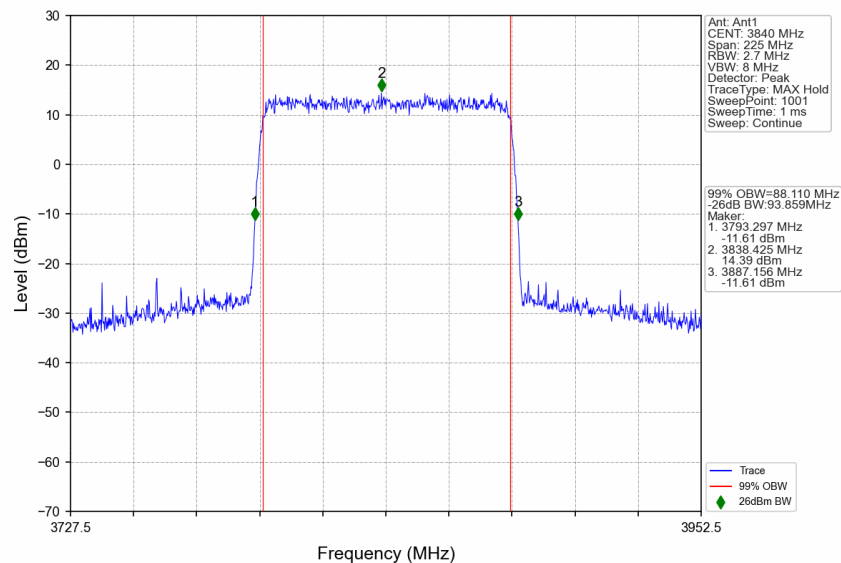
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n77a_30kHz_SISO_NTNV_90MHz_CP-OFDM_256_QAM_3745.02MHz_Outer_Full



n77a_30kHz_SISO_NTNV_90MHz_CP-OFDM_256_QAM_3840MHz_Outer_Full



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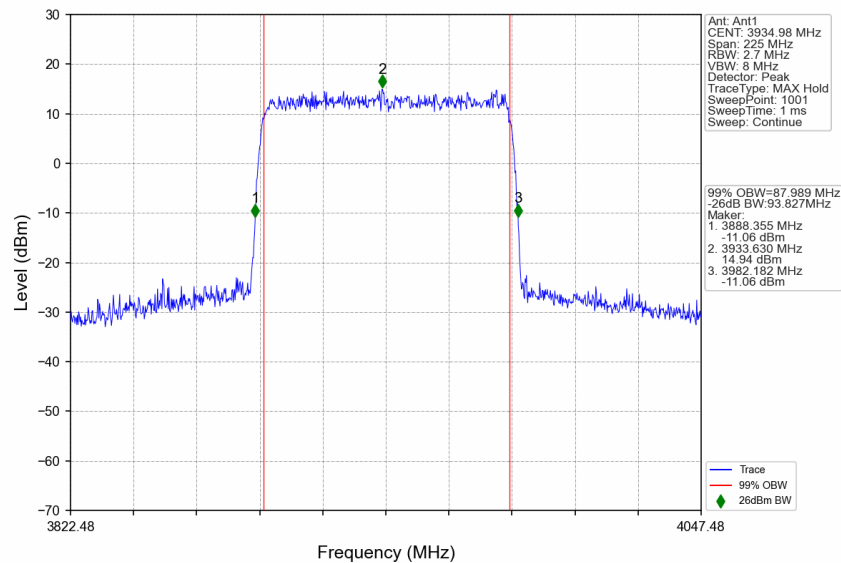
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4.19 30k_SISO_100MHz_NTNV

4.19.1 Test Result

5G NR n77a SCS=30kHz SISO 100MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3750	Outer Full	96.66	103.43	/	Pass
	3840	Outer Full	97.22	103.68	/	Pass
	3930	Outer Full	97.39	103.71	/	Pass
DFT-s-OFDM QPSK	3750	Outer Full	96.89	103.58	/	Pass
	3840	Outer Full	97.16	103.55	/	Pass
	3930	Outer Full	97.03	103.66	/	Pass
DFT-s-OFDM 16 QAM	3750	Outer Full	97.01	103.13	/	Pass
	3840	Outer Full	97.12	103.71	/	Pass
	3930	Outer Full	96.91	103.69	/	Pass
DFT-s-OFDM 64 QAM	3750	Outer Full	97.22	103.59	/	Pass
	3840	Outer Full	97.37	103.54	/	Pass
	3930	Outer Full	97.21	103.50	/	Pass
DFT-s-OFDM 256 QAM	3750	Outer Full	97.40	103.41	/	Pass
	3840	Outer Full	97.17	103.59	/	Pass
	3930	Outer Full	97.22	103.71	/	Pass
CP-OFDM QPSK	3750	Outer Full	98.26	104.62	/	Pass
	3840	Outer Full	98.01	104.87	/	Pass
	3930	Outer Full	98.29	104.88	/	Pass
CP-OFDM 16 QAM	3750	Outer Full	98.12	104.35	/	Pass
	3840	Outer Full	98.08	104.55	/	Pass
	3930	Outer Full	98.13	104.80	/	Pass
CP-OFDM 64 QAM	3750	Outer Full	98.07	104.42	/	Pass
	3840	Outer Full	98.02	104.57	/	Pass
	3930	Outer Full	98.06	104.63	/	Pass
CP-OFDM 256 QAM	3750	Outer Full	98.32	104.32	/	Pass
	3840	Outer Full	98.21	104.67	/	Pass
	3930	Outer Full	98.11	104.76	/	Pass



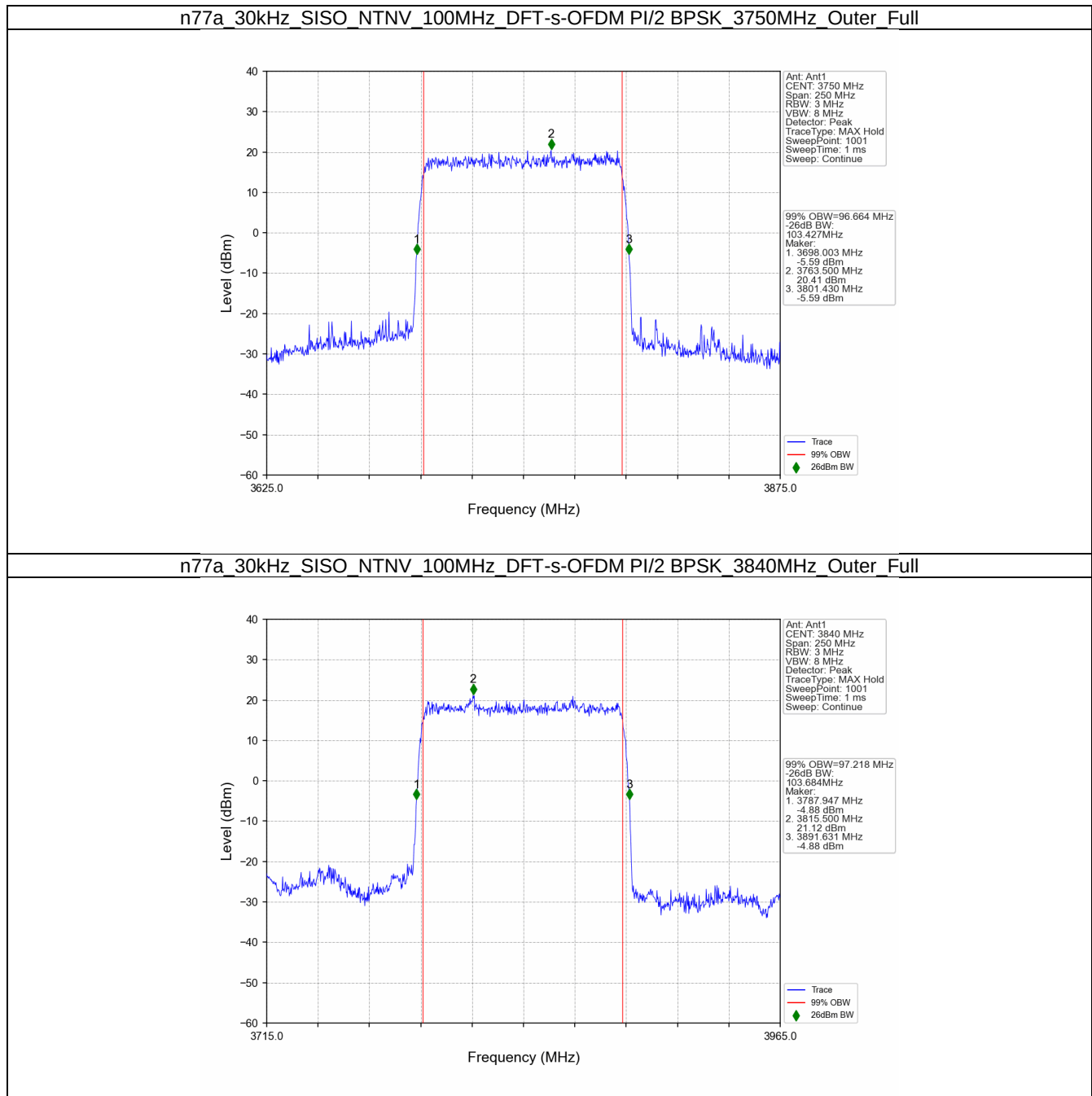
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4.19.2 Test Graph



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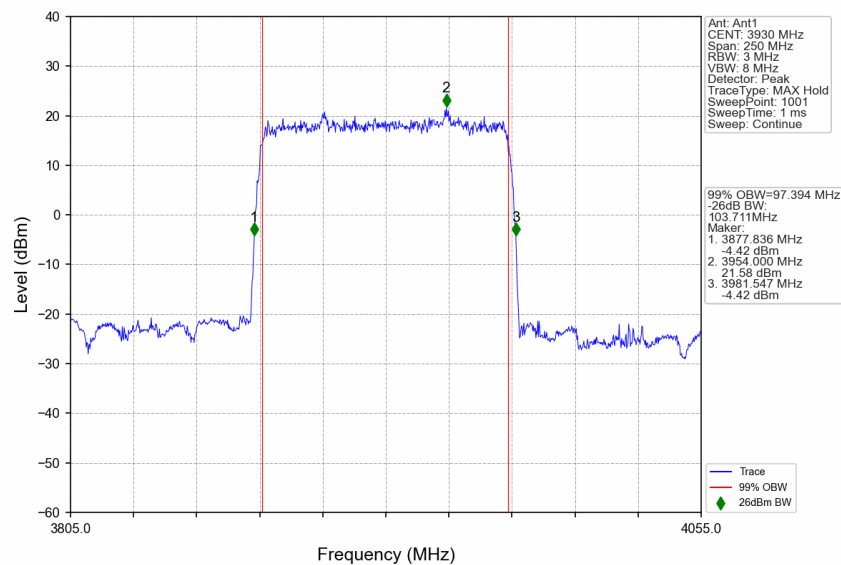
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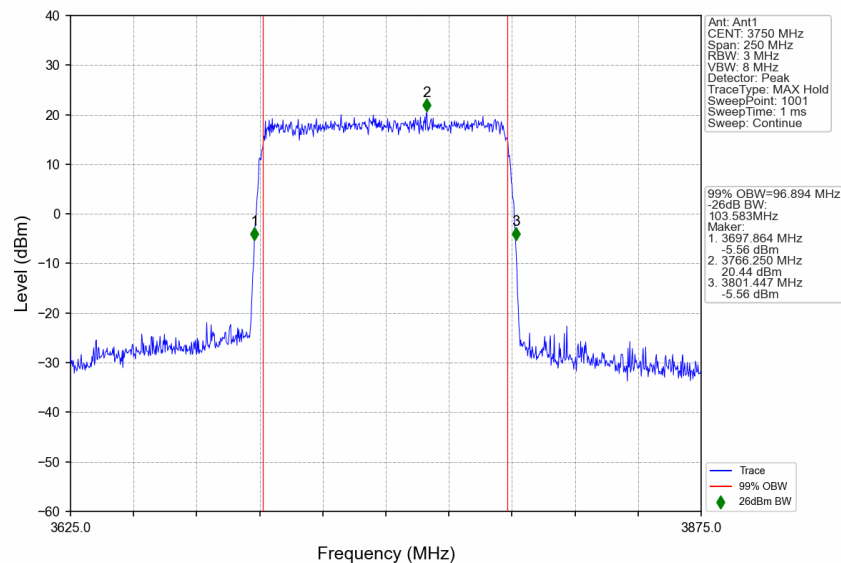
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n77a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM PI/2 BPSK 3930MHz_Outer_Full



n77a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK 3750MHz_Outer_Full



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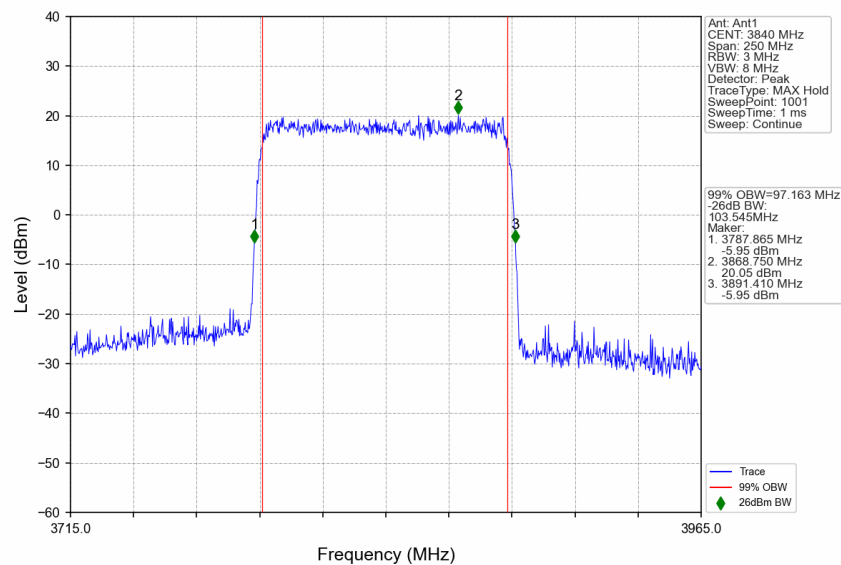
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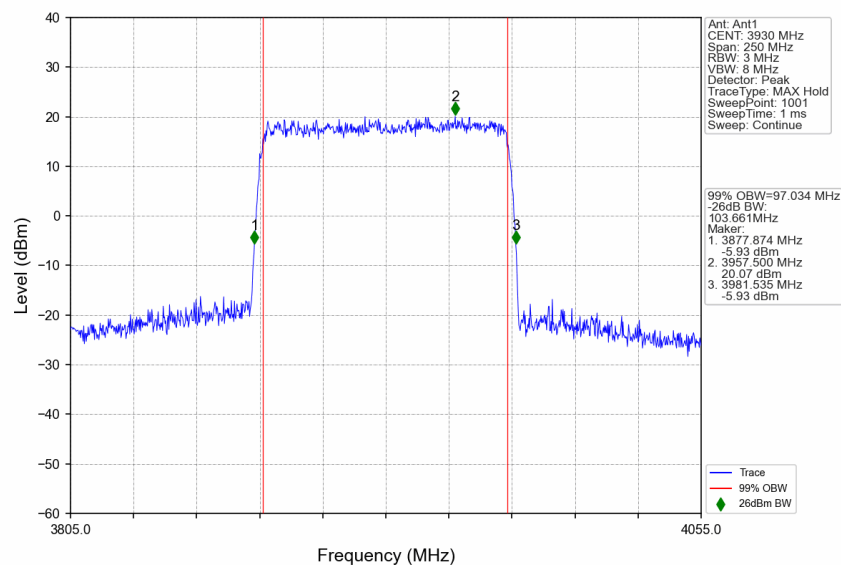
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n77a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_3930MHz_Outer_Full



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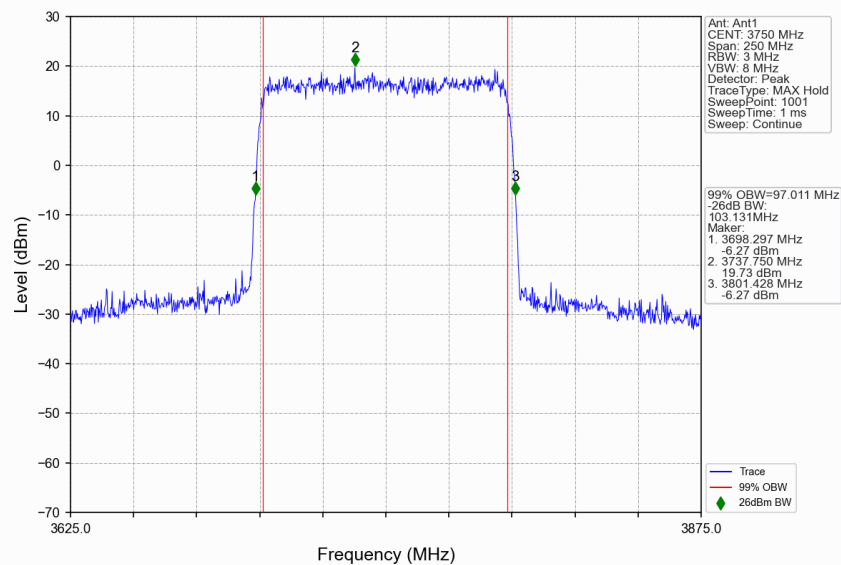
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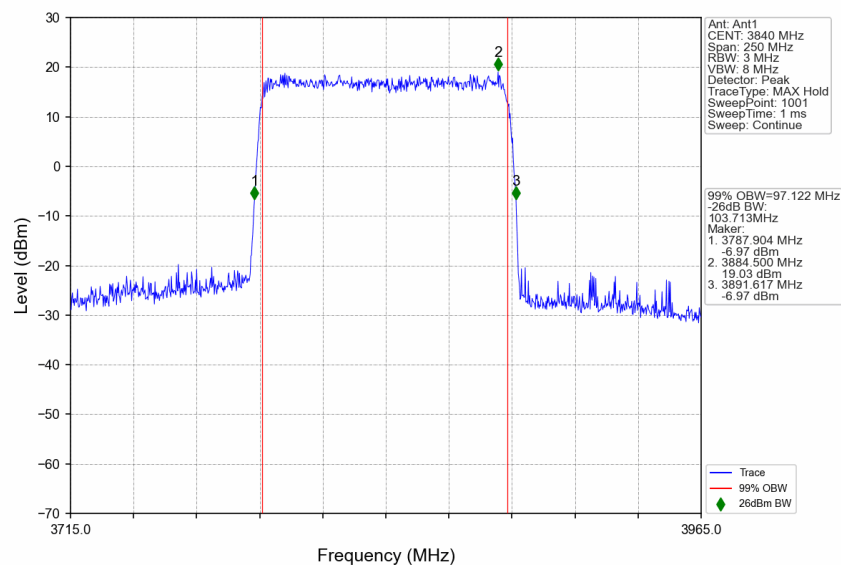
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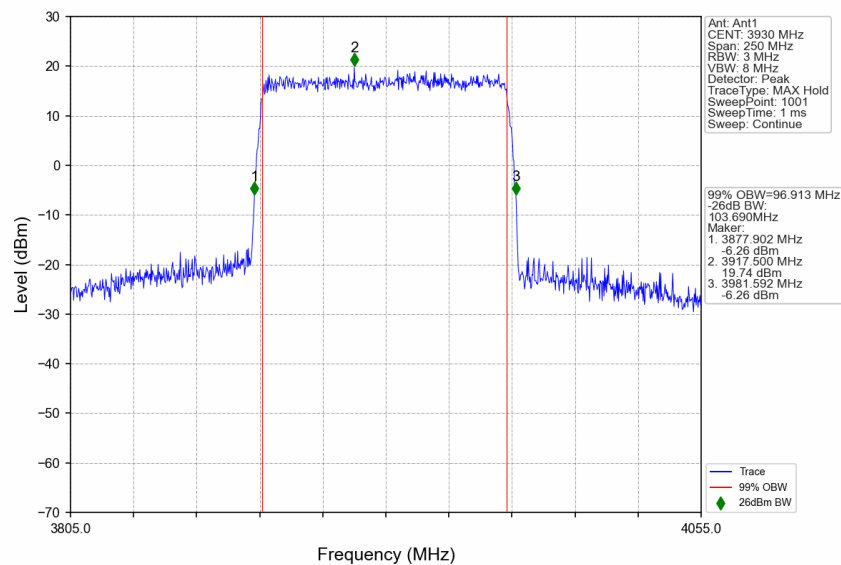
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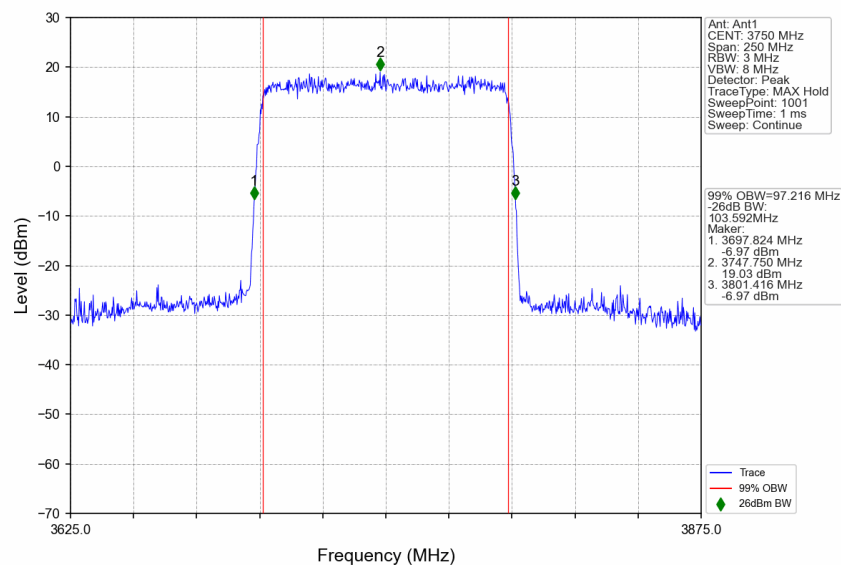
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n77a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 16 QAM_3930MHz_Outer_Full



n77a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 64 QAM_3750MHz_Outer_Full



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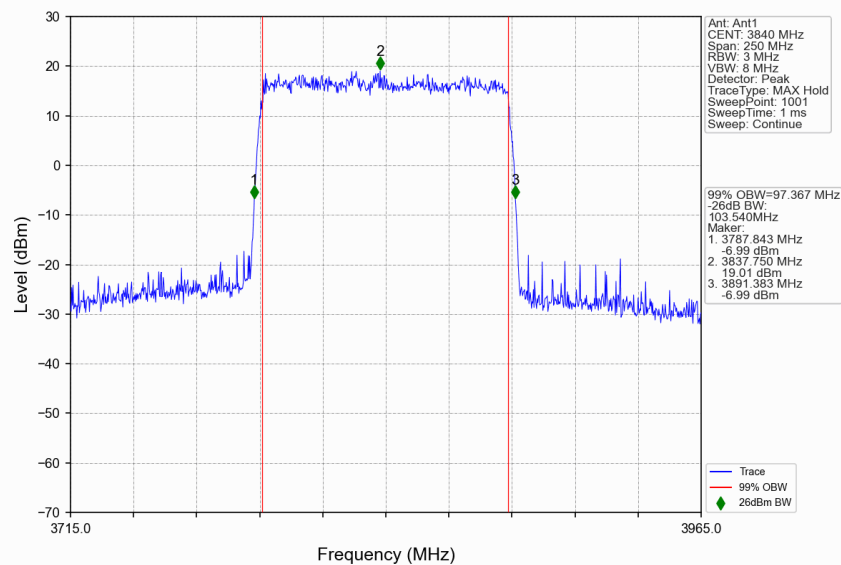
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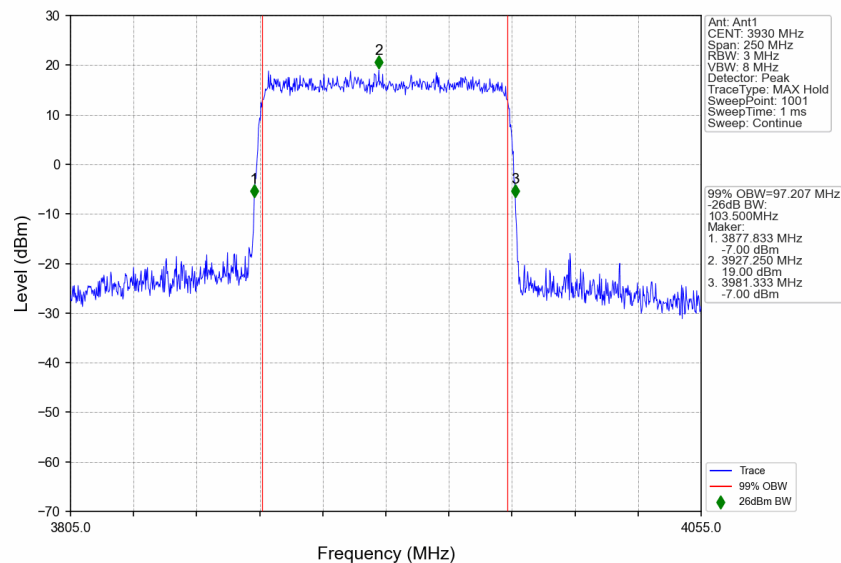
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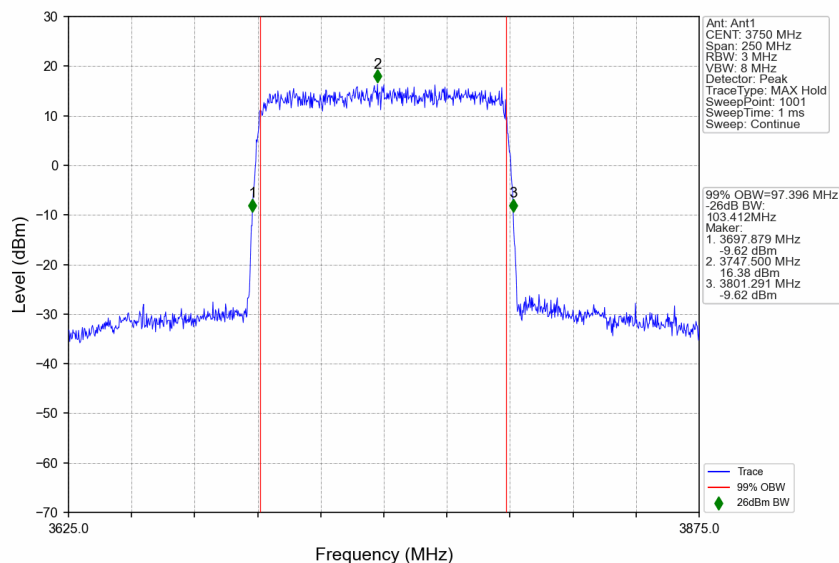
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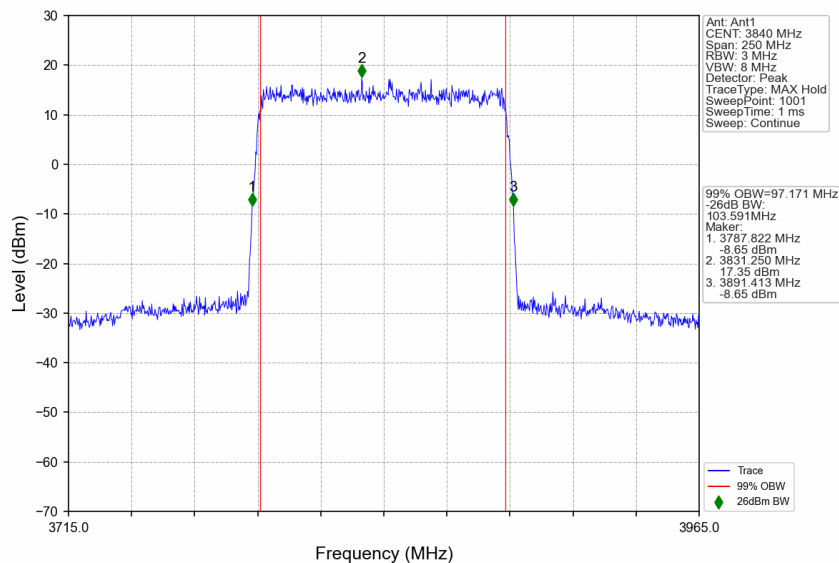
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n77a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_256_QAM_3840MHz_Outer_Full



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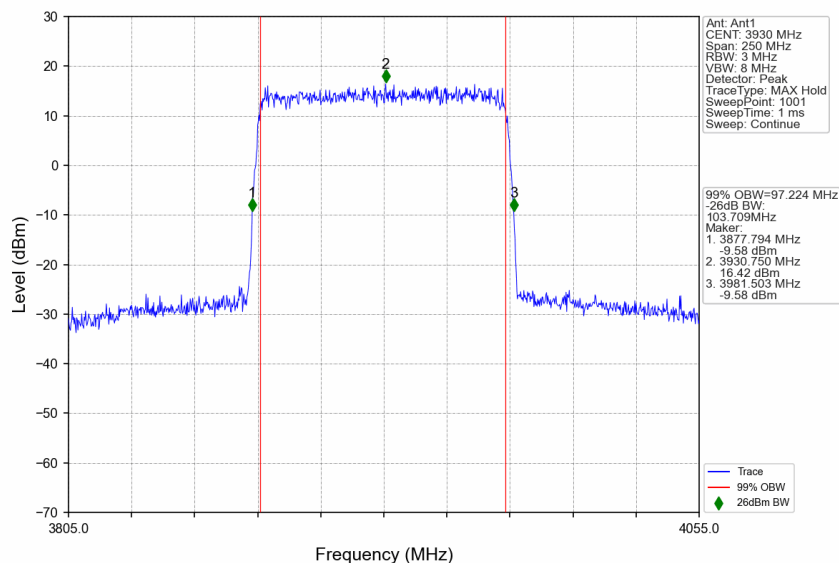
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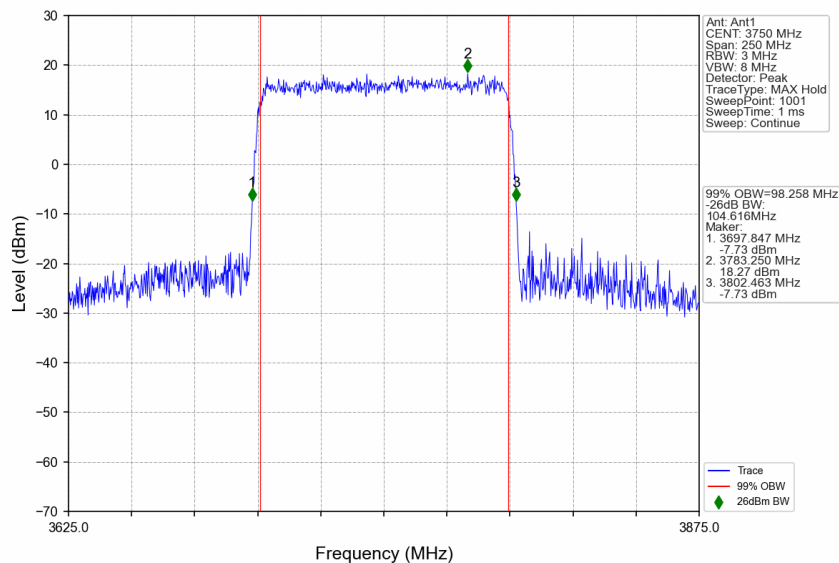
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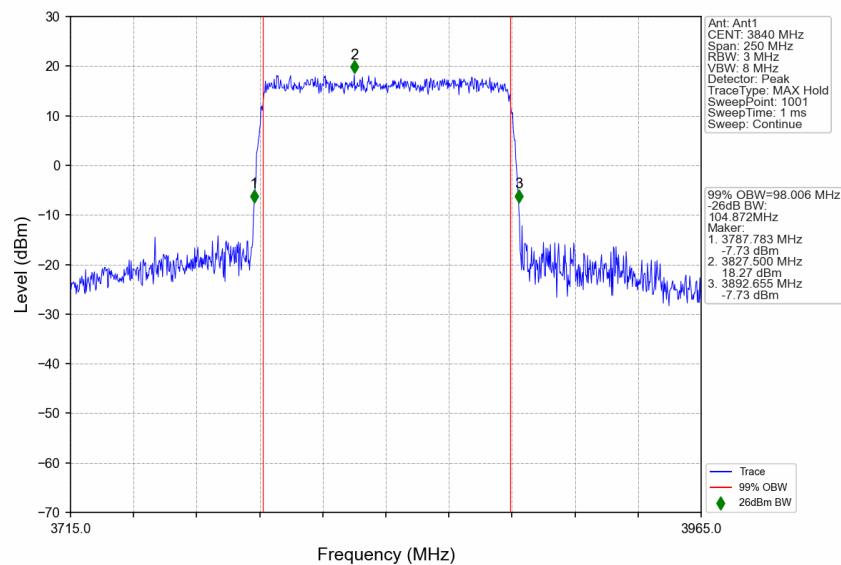
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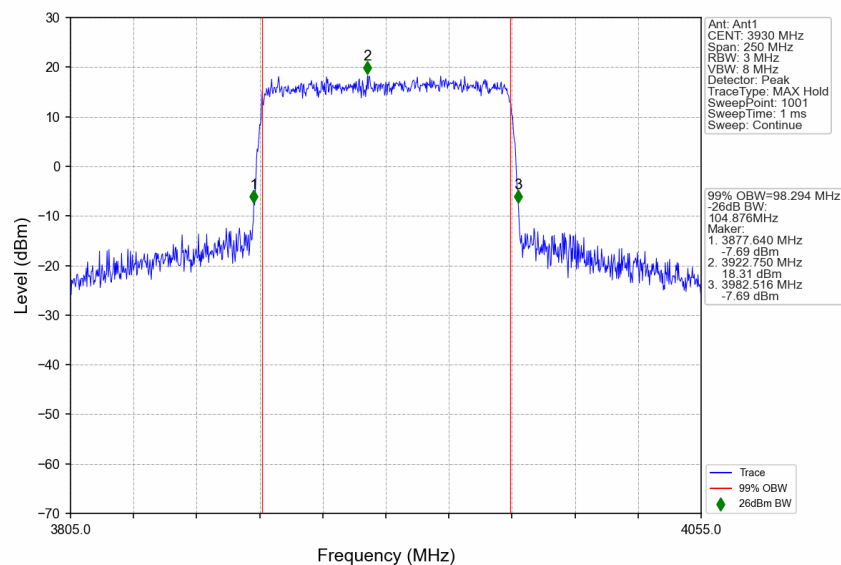
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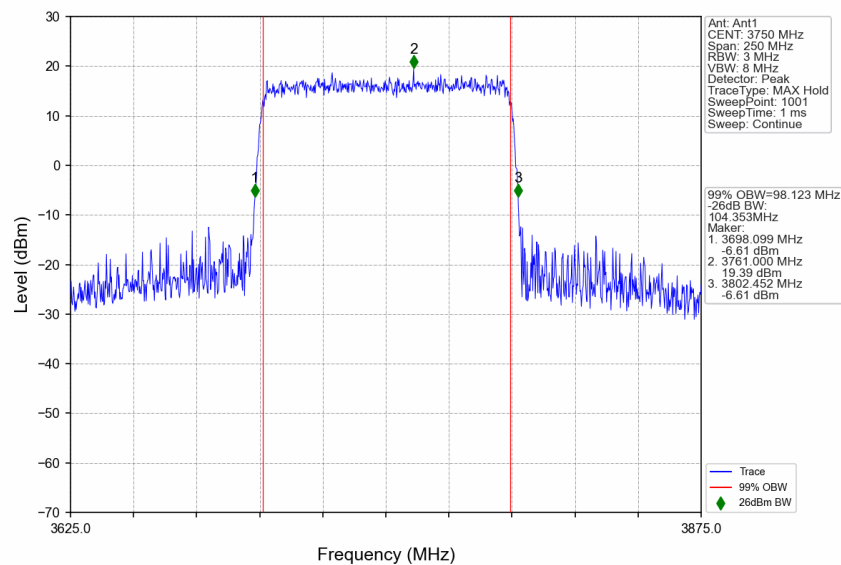
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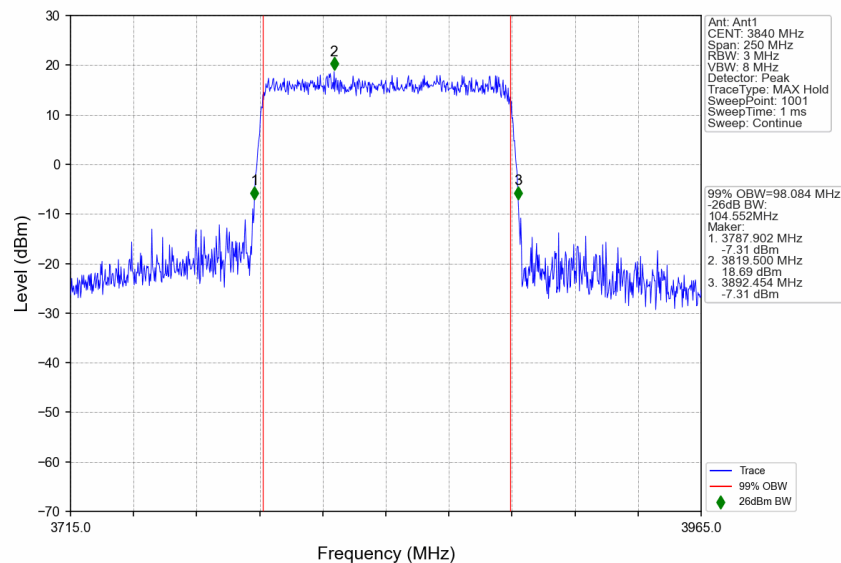
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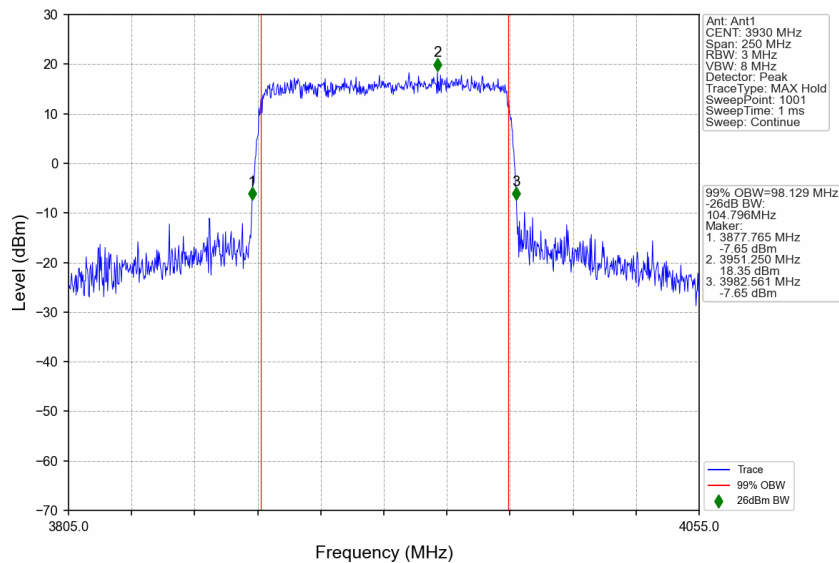
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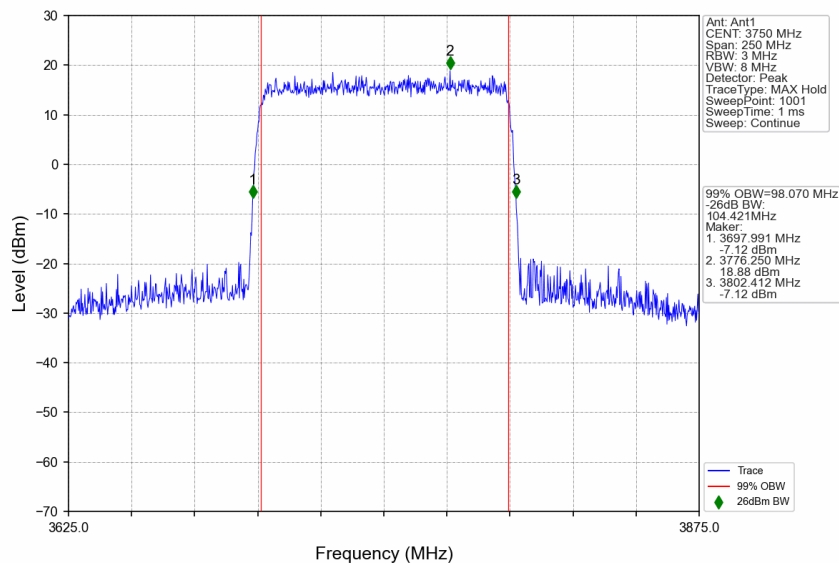
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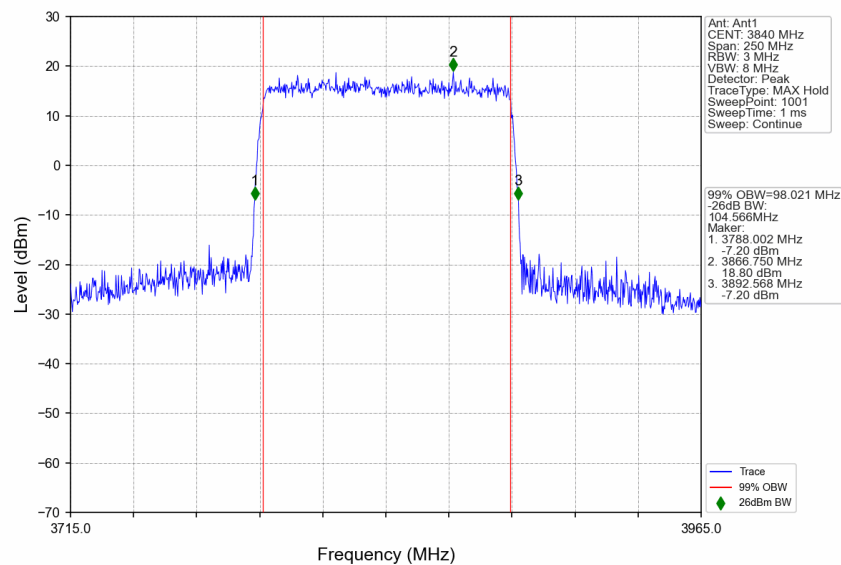
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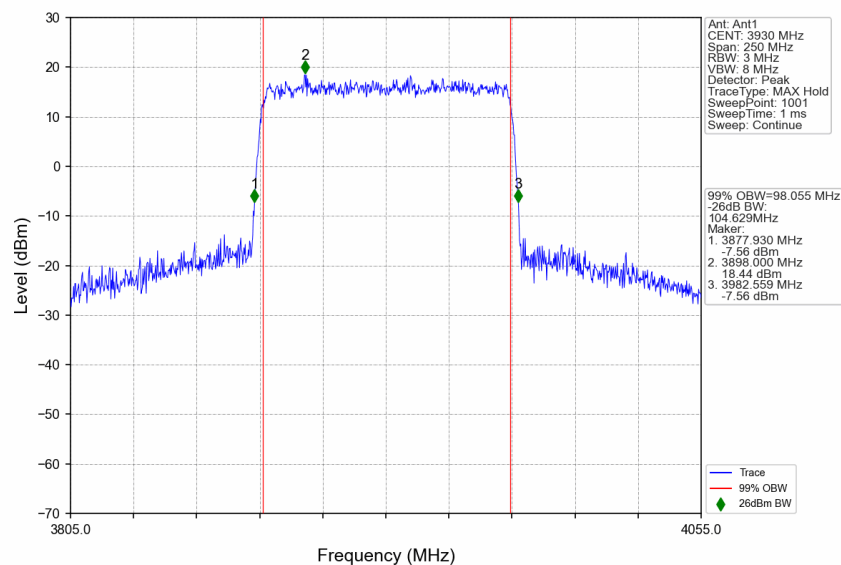
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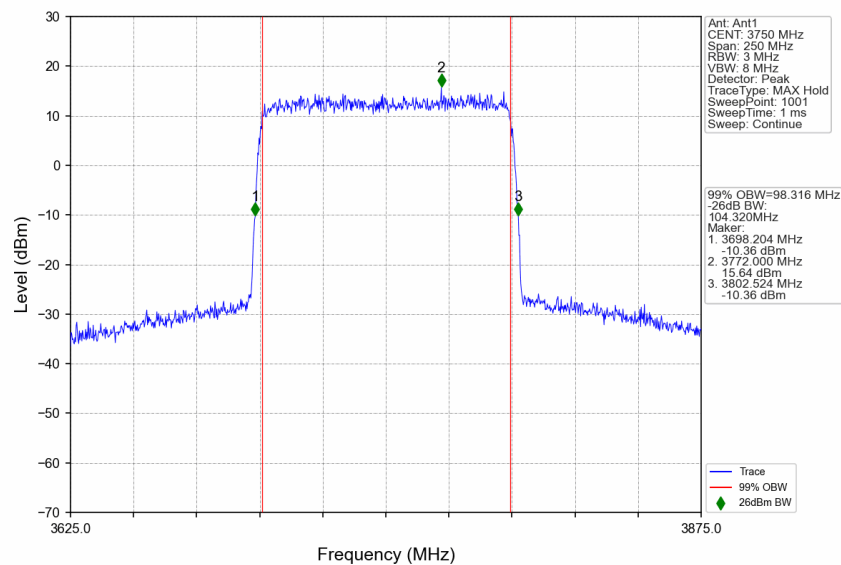
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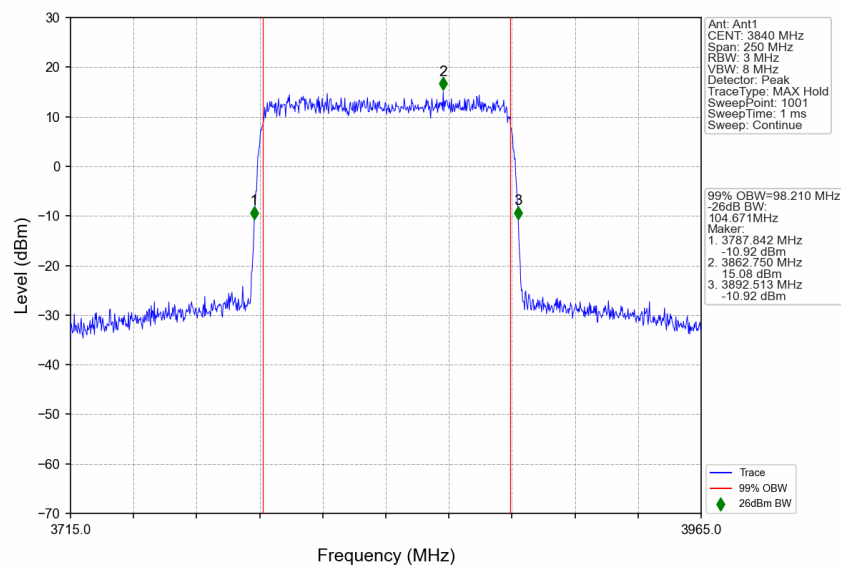
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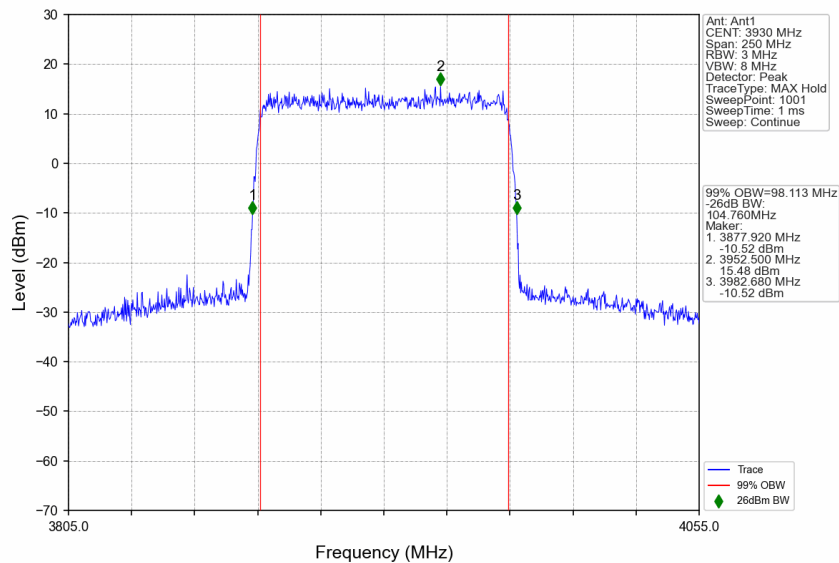
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Report No.: SEWM2311000456RG02

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n77a_30kHz_SISO_NTNV_100MHz_CP-OFDM_256_QAM_3930MHz_Outer_Full



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5. Peak-Average Ratio

5.1 15k_SISO_10MHz_NTNV

5.1.1 Test Result

5G NR n77a SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3705	Outer_Full	8.32	/	/	<=13	Pass
	3840	Outer_Full	8.30	/	/	<=13	Pass
	3975	Outer_Full	8.19	/	/	<=13	Pass
DFT-s-OFDM QPSK	3705	Outer_Full	9.44	/	/	<=13	Pass
	3840	Outer_Full	12.07	/	/	<=13	Pass
	3975	Outer_Full	9.21	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3705	Outer_Full	9.80	/	/	<=13	Pass
	3840	Outer_Full	12.28	/	/	<=13	Pass
	3975	Outer_Full	9.85	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3705	Outer_Full	10.45	/	/	<=13	Pass
	3840	Outer_Full	12.67	/	/	<=13	Pass
	3975	Outer_Full	10.13	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3705	Outer_Full	10.39	/	/	<=13	Pass
	3840	Outer_Full	12.55	/	/	<=13	Pass
	3975	Outer_Full	10.19	/	/	<=13	Pass
CP-OFDM QPSK	3705	Outer_Full	12.21	/	/	<=13	Pass
	3840	Outer_Full	11.95	/	/	<=13	Pass
	3975	Outer_Full	11.86	/	/	<=13	Pass
CP-OFDM 16 QAM	3705	Outer_Full	12.43	/	/	<=13	Pass
	3840	Outer_Full	12.36	/	/	<=13	Pass
	3975	Outer_Full	11.60	/	/	<=13	Pass
CP-OFDM 64 QAM	3705	Outer_Full	12.19	/	/	<=13	Pass
	3840	Outer_Full	12.12	/	/	<=13	Pass
	3975	Outer_Full	11.58	/	/	<=13	Pass
CP-OFDM 256 QAM	3705	Outer_Full	11.79	/	/	<=13	Pass
	3840	Outer_Full	12.03	/	/	<=13	Pass
	3975	Outer_Full	12.12	/	/	<=13	Pass



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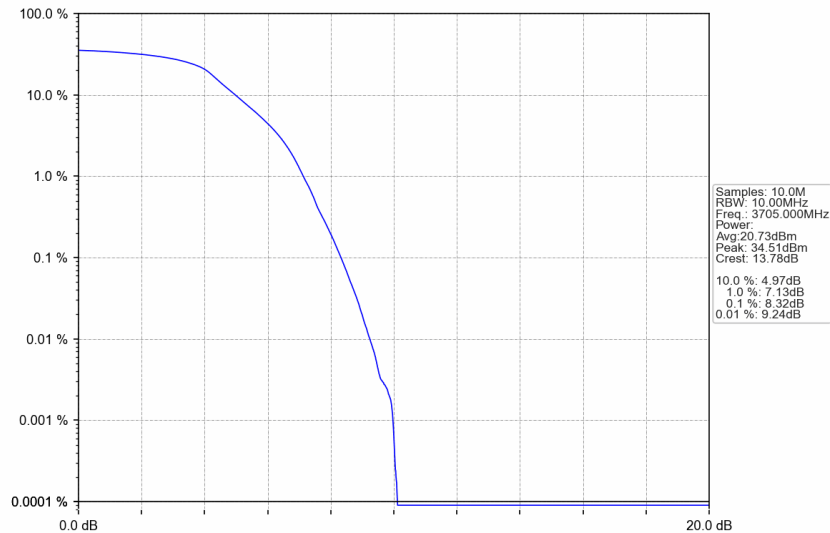
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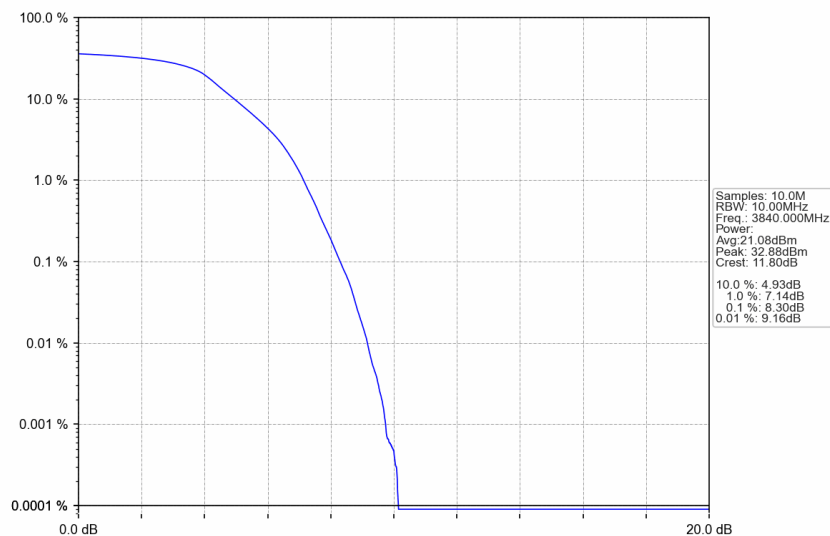
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5.1.2 Test Graph

n77a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3705MHz_Outer_Full



n77a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3840MHz_Outer_Full



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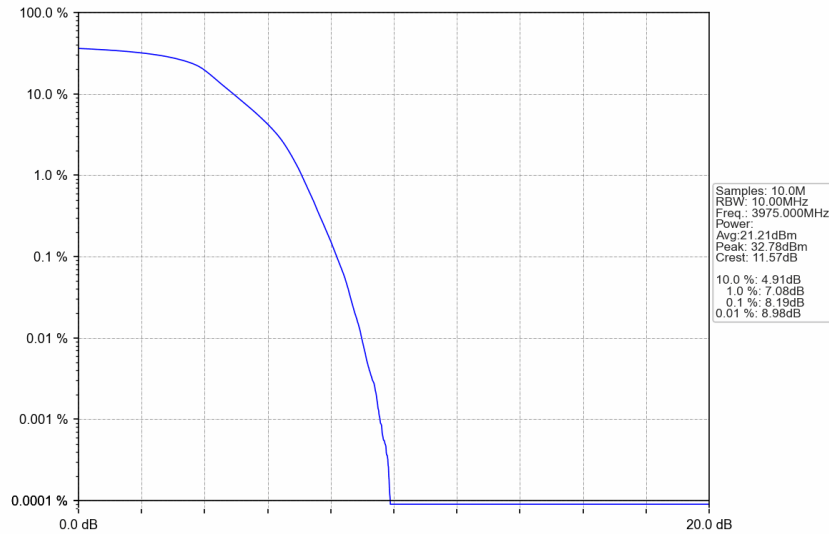
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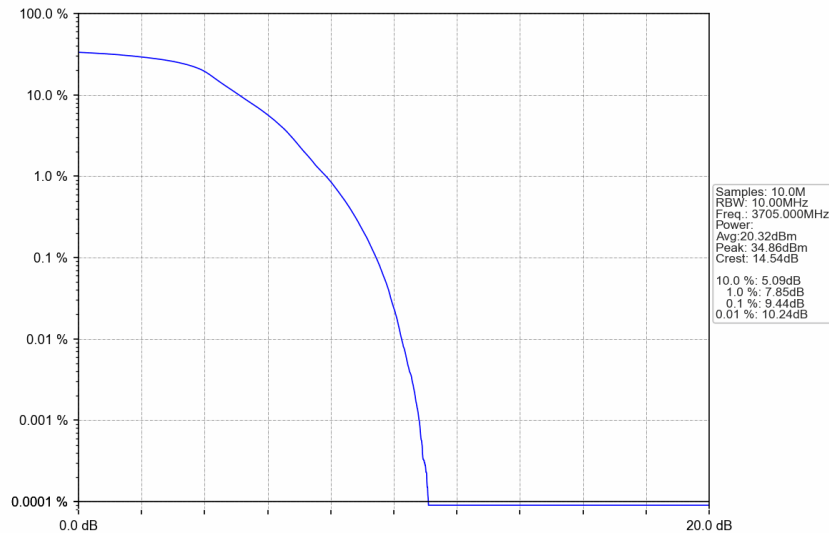
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n77a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3975MHz_Outer_Full



n77a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3705MHz_Outer_Full



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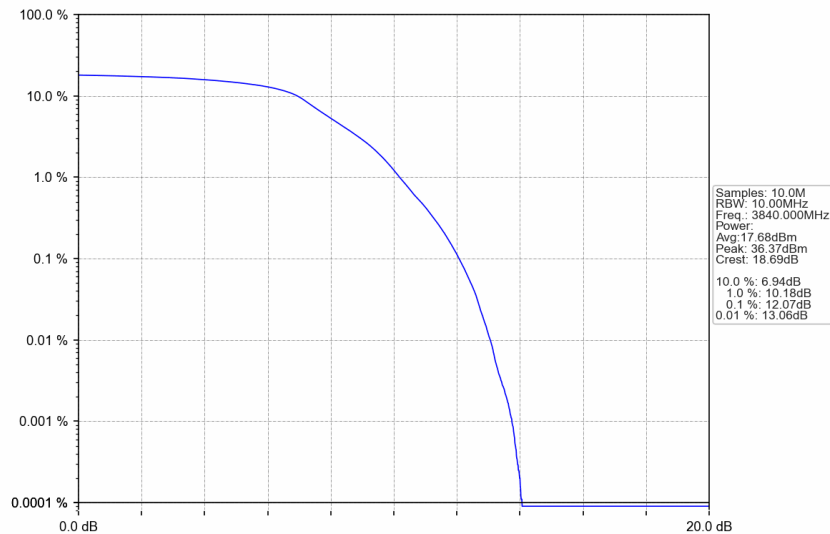


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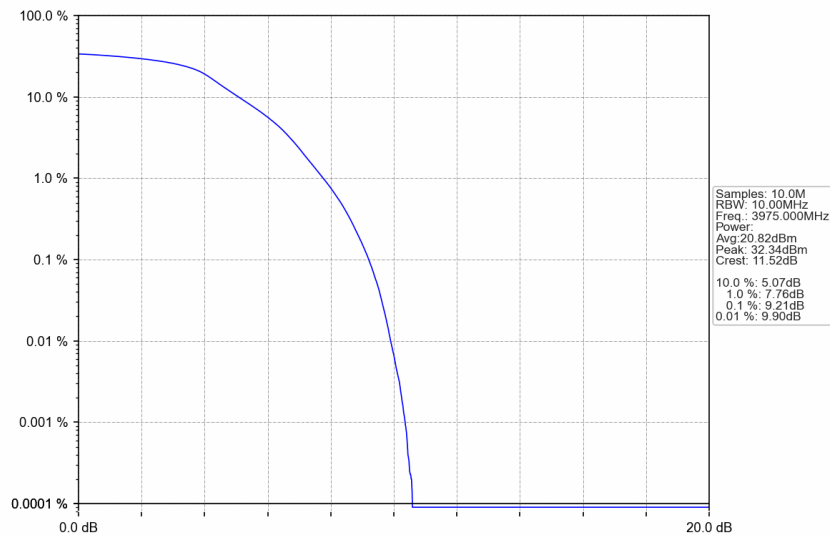
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n77a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3840MHz_Outer_Full



n77a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3975MHz_Outer_Full



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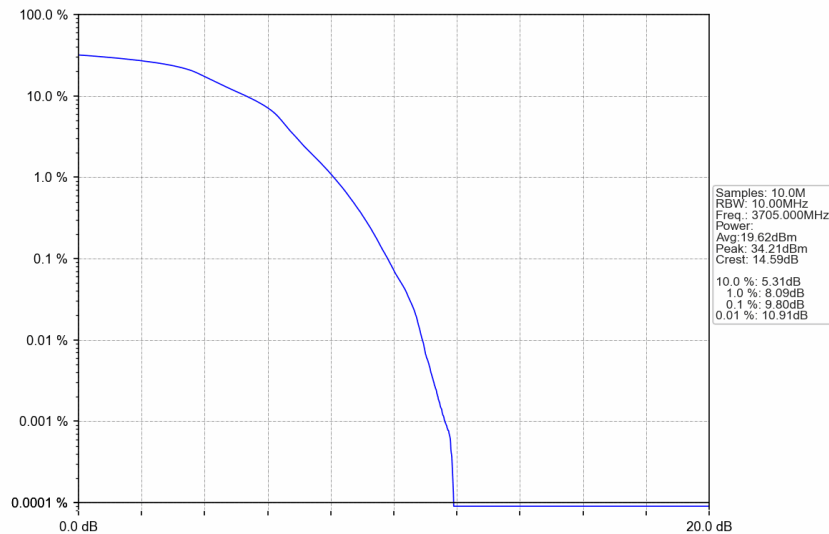
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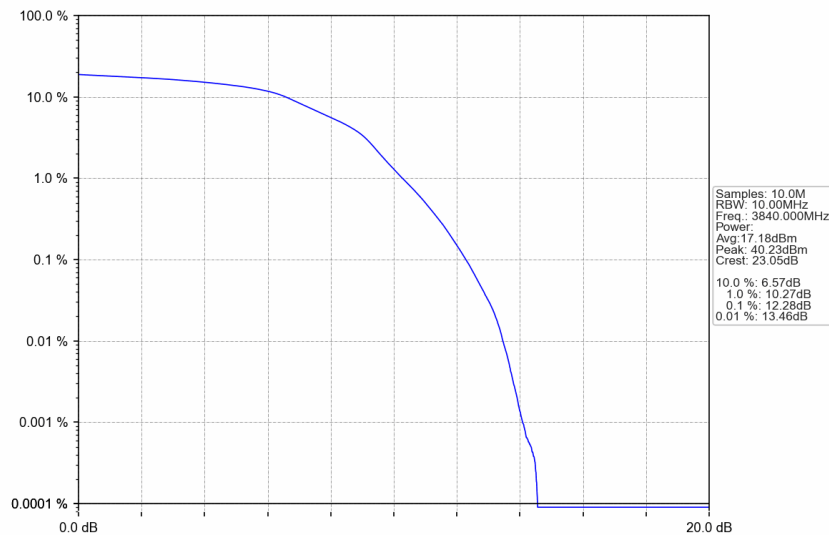
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n77a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_3705MHz_Outer_Full



n77a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_3840MHz_Outer_Full



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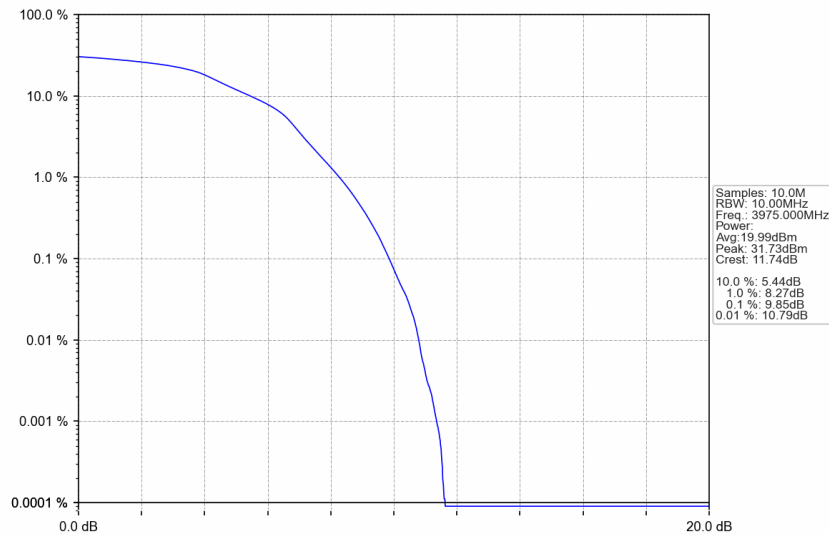
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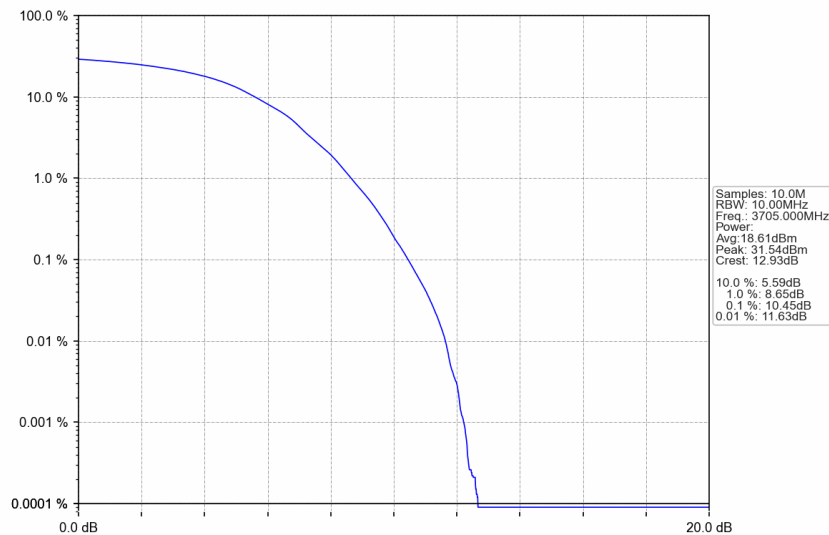
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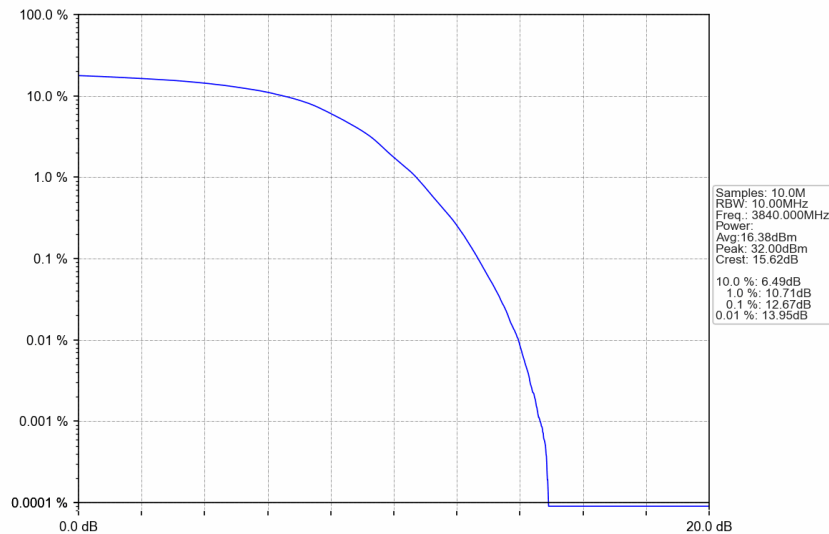
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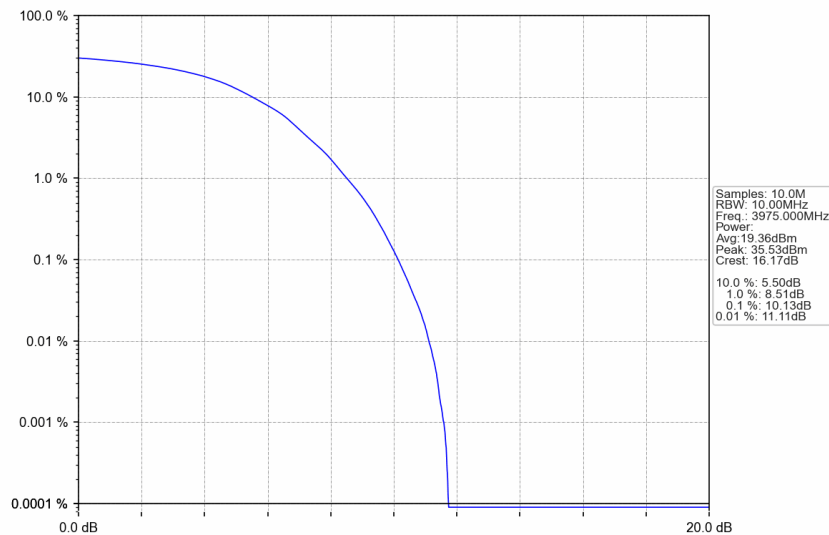
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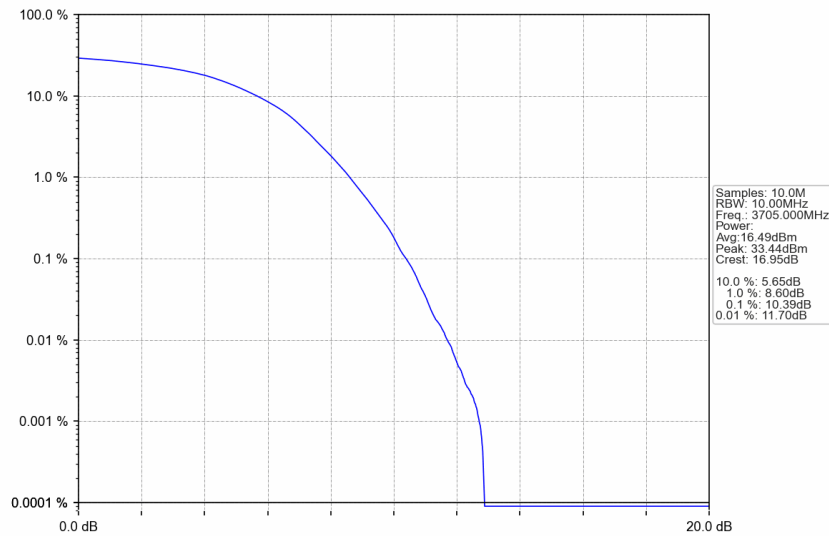
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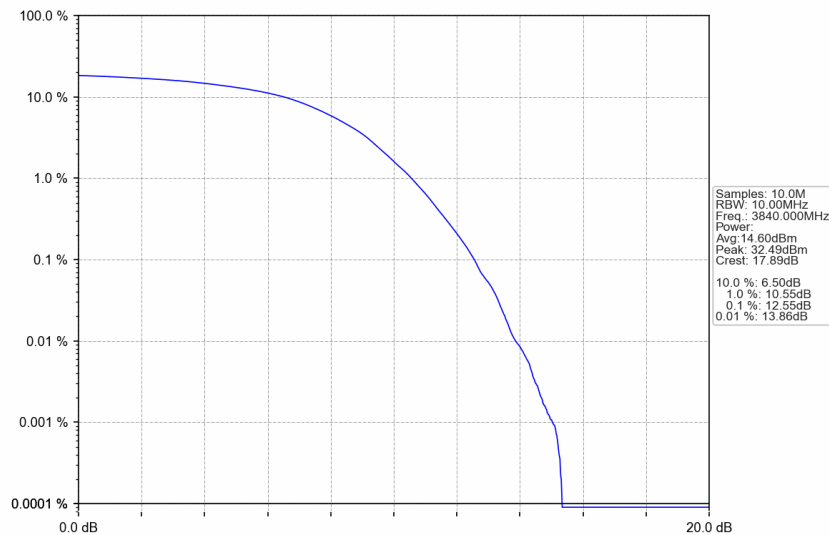
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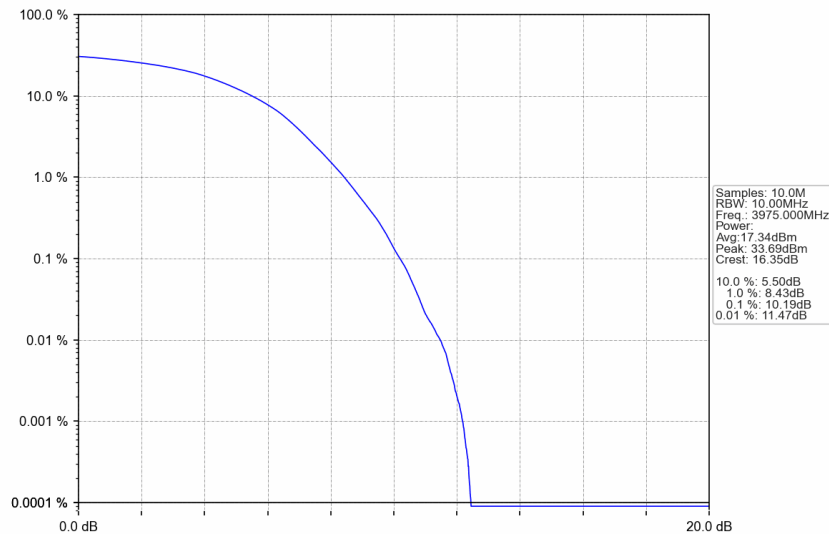
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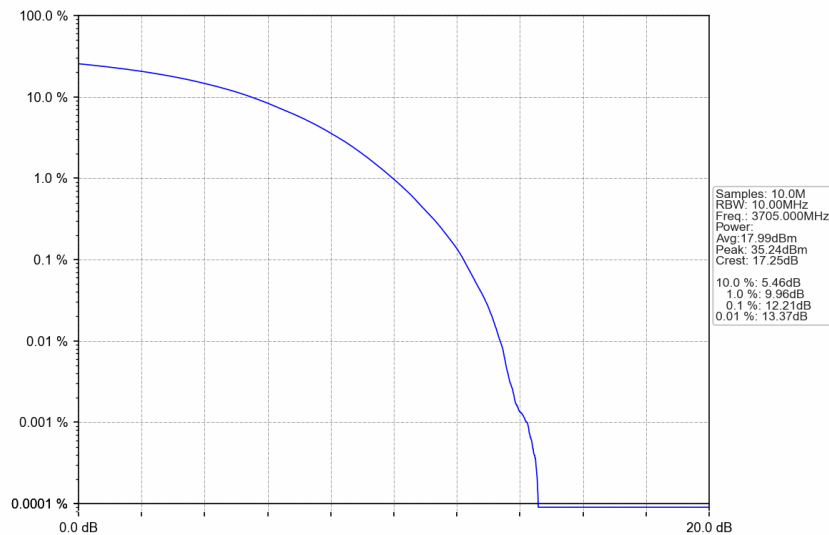
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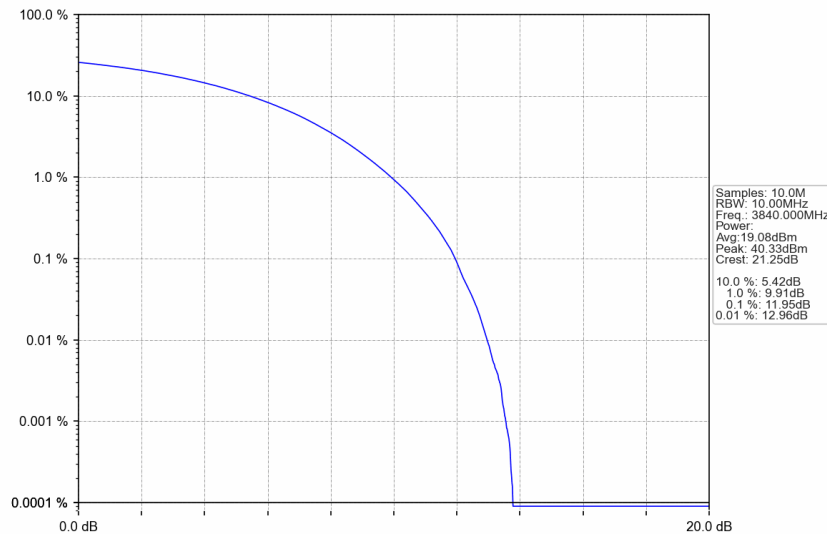
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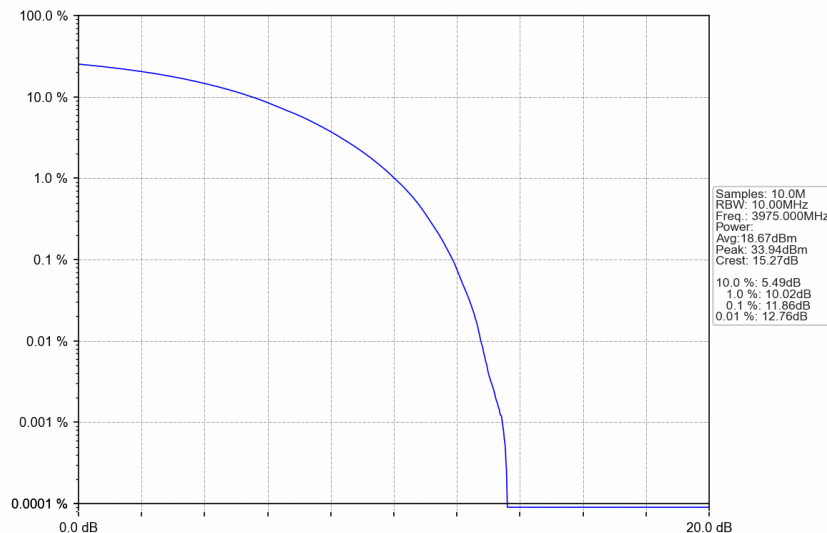
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n77a_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3840MHz_Outer_Full



n77a_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3975MHz_Outer_Full



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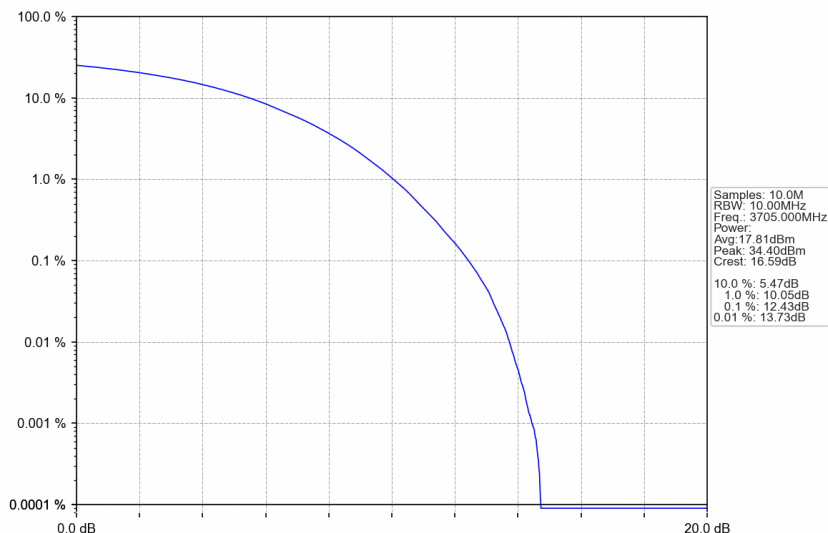
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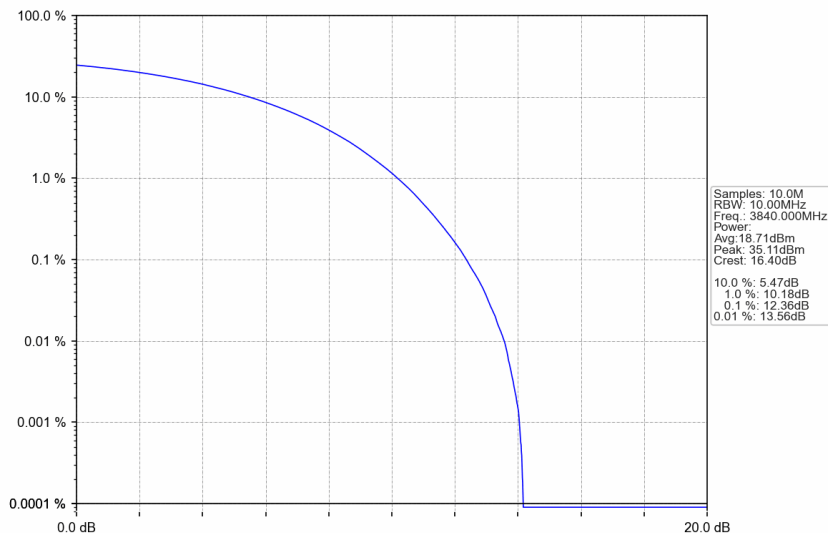
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n77a_15kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_3705MHz_Outer_Full



n77a_15kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_3840MHz_Outer_Full



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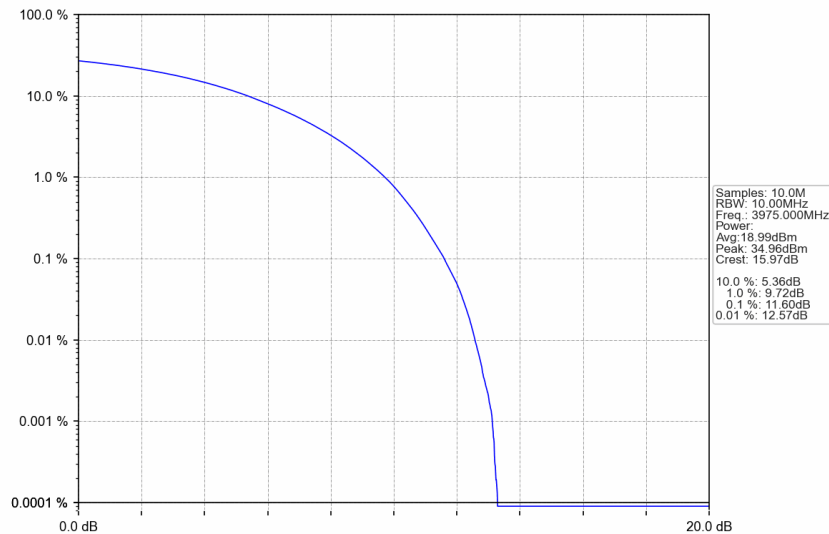
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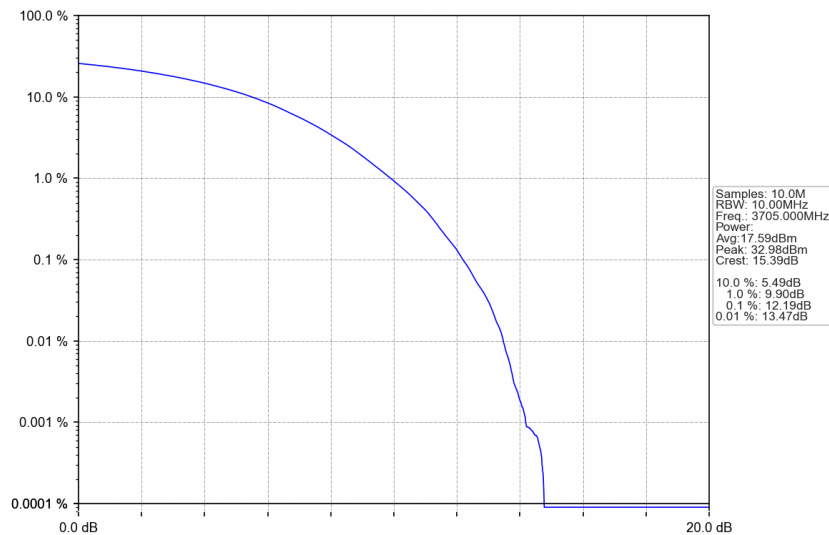
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n77a_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_3975MHz_Outer_Full



n77a_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3705MHz_Outer_Full



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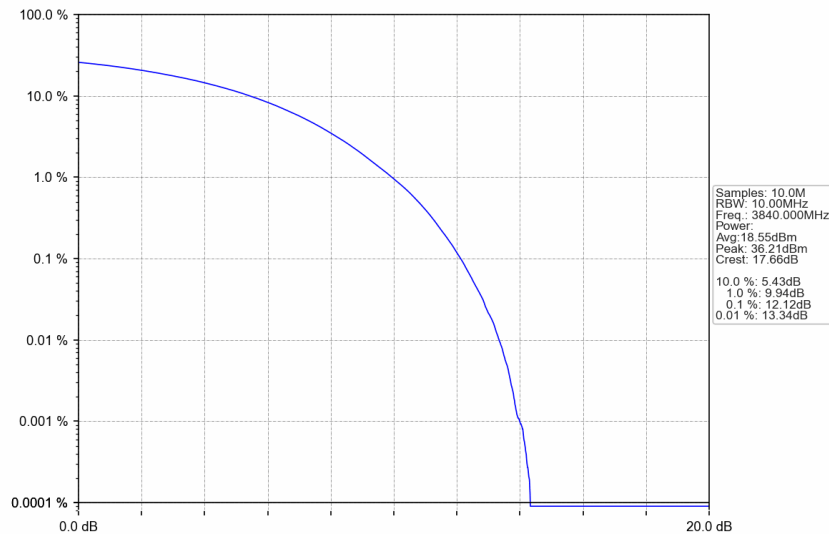
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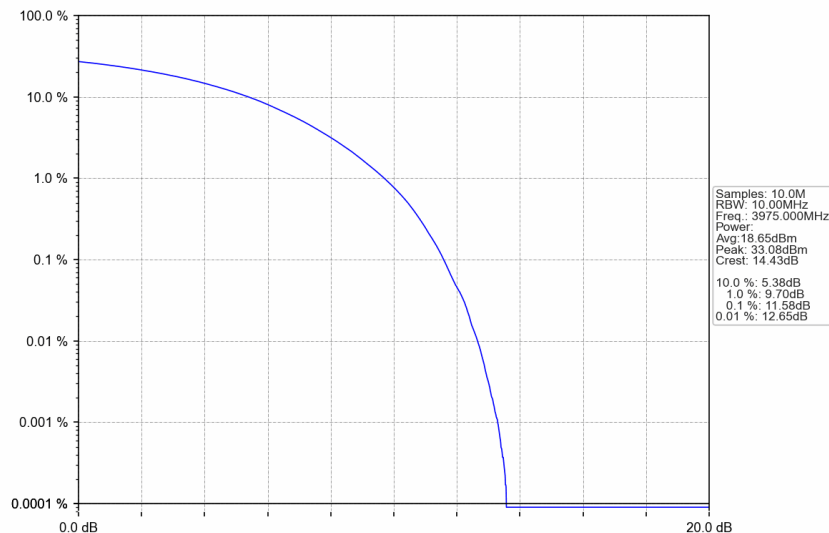
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n77a_15kHz_SISO_NTNV_10MHz_CP-OFDM_64_QAM_3840MHz_Outer_Full



n77a_15kHz_SISO_NTNV_10MHz_CP-OFDM_64_QAM_3975MHz_Outer_Full



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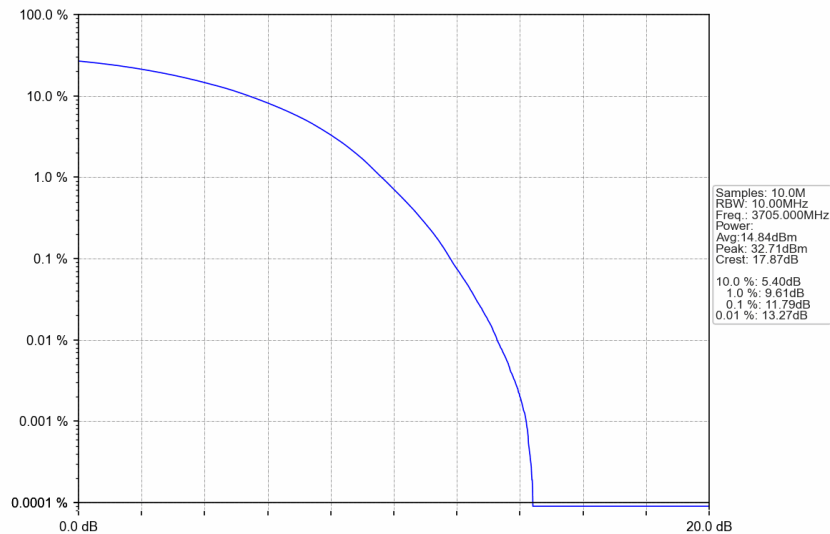


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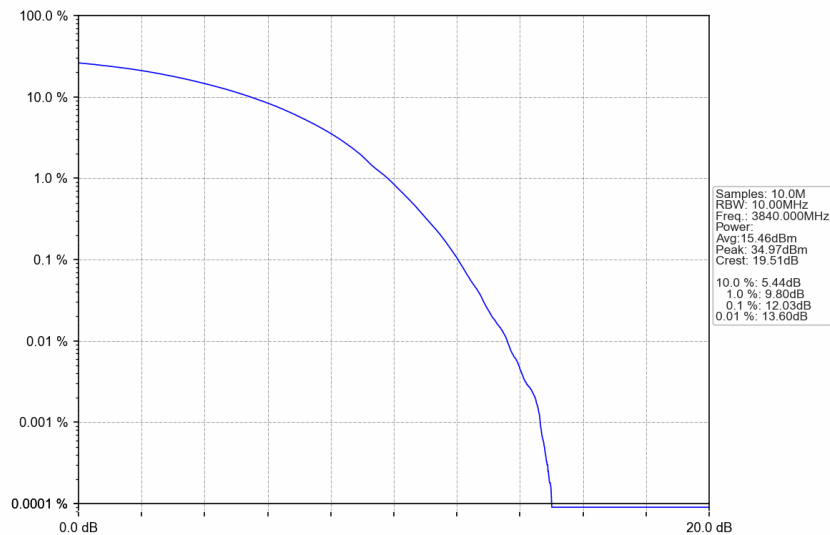
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n77a_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3705MHz_Outer_Full



n77a_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3840MHz_Outer_Full



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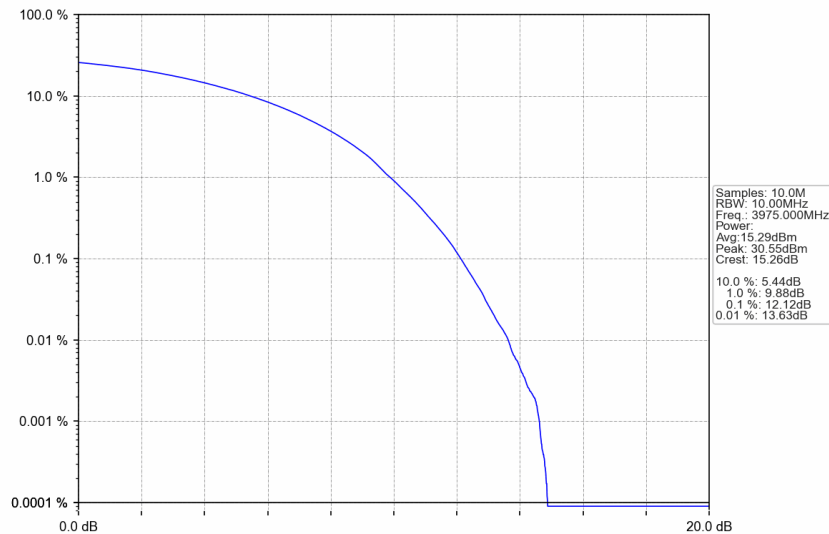
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n77a_15kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_3975MHz_Outer_Full



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5.2 15k_SISO_15MHz_NTNV

5.2.1 Test Result

5G NR n77a SCS=15kHz SISO 15MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3707.505	Outer_Full	8.61	/	/	<=13	Pass
	3840	Outer_Full	8.65	/	/	<=13	Pass
	3972.495	Outer_Full	8.25	/	/	<=13	Pass
DFT-s-OFDM QPSK	3707.505	Outer_Full	9.35	/	/	<=13	Pass
	3840	Outer_Full	9.17	/	/	<=13	Pass
	3972.495	Outer_Full	9.09	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3707.505	Outer_Full	10.59	/	/	<=13	Pass
	3840	Outer_Full	9.97	/	/	<=13	Pass
	3972.495	Outer_Full	9.74	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3707.505	Outer_Full	10.38	/	/	<=13	Pass
	3840	Outer_Full	10.17	/	/	<=13	Pass
	3972.495	Outer_Full	10.15	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3707.505	Outer_Full	10.25	/	/	<=13	Pass
	3840	Outer_Full	10.18	/	/	<=13	Pass
	3972.495	Outer_Full	10.43	/	/	<=13	Pass
CP-OFDM QPSK	3707.505	Outer_Full	11.94	/	/	<=13	Pass
	3840	Outer_Full	11.88	/	/	<=13	Pass
	3972.495	Outer_Full	11.65	/	/	<=13	Pass
CP-OFDM 16 QAM	3707.505	Outer_Full	12.24	/	/	<=13	Pass
	3840	Outer_Full	11.94	/	/	<=13	Pass
	3972.495	Outer_Full	11.61	/	/	<=13	Pass
CP-OFDM 64 QAM	3707.505	Outer_Full	11.98	/	/	<=13	Pass
	3840	Outer_Full	11.93	/	/	<=13	Pass
	3972.495	Outer_Full	11.04	/	/	<=13	Pass
CP-OFDM 256 QAM	3707.505	Outer_Full	11.67	/	/	<=13	Pass
	3840	Outer_Full	12.02	/	/	<=13	Pass
	3972.495	Outer_Full	12.14	/	/	<=13	Pass



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