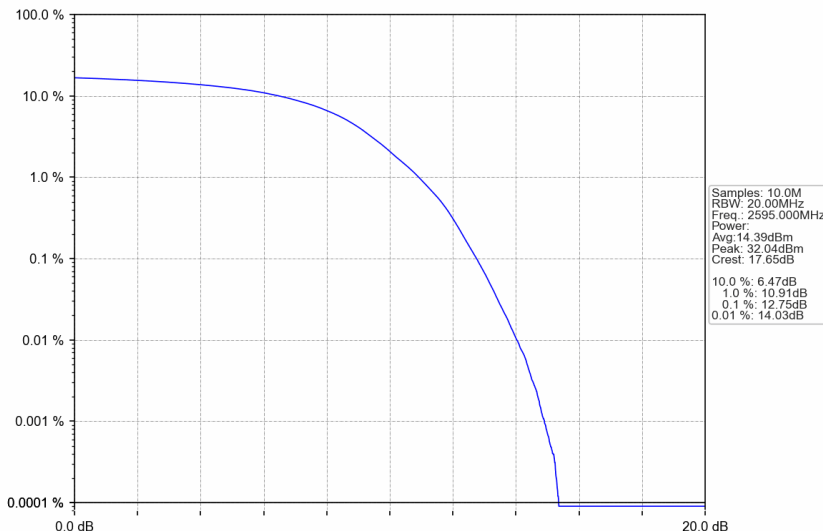
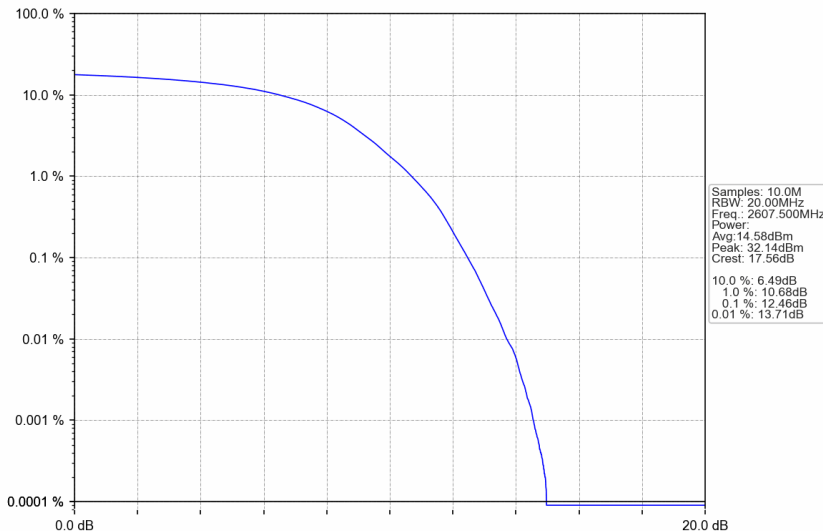




n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_2607.5MHz_Outer_Full



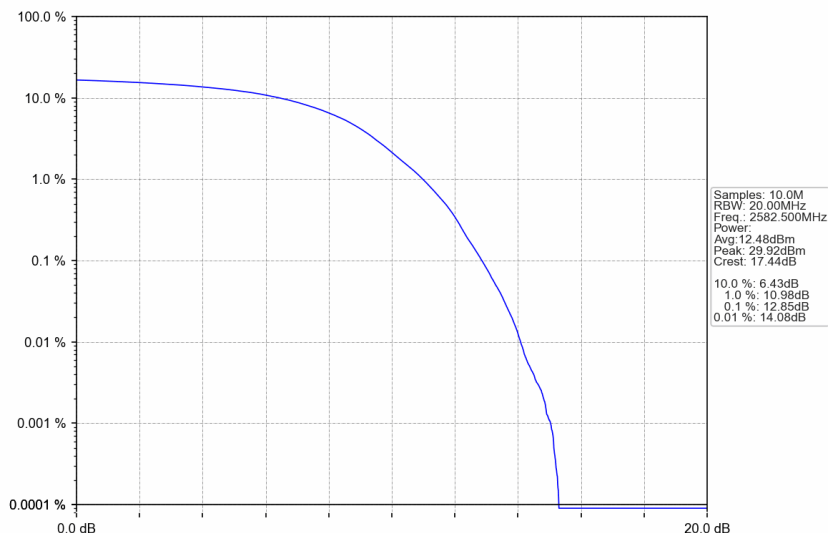
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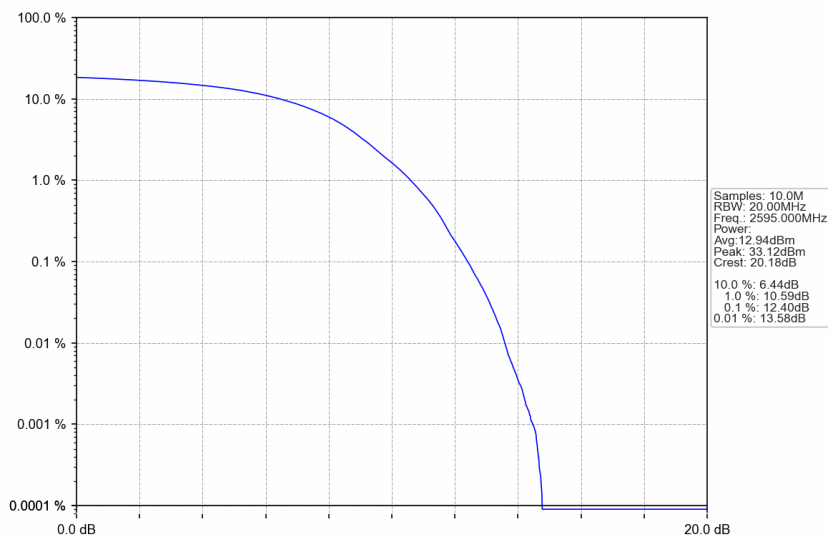
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n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 256 QAM_2582.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 256 QAM_2595MHz_Outer_Full

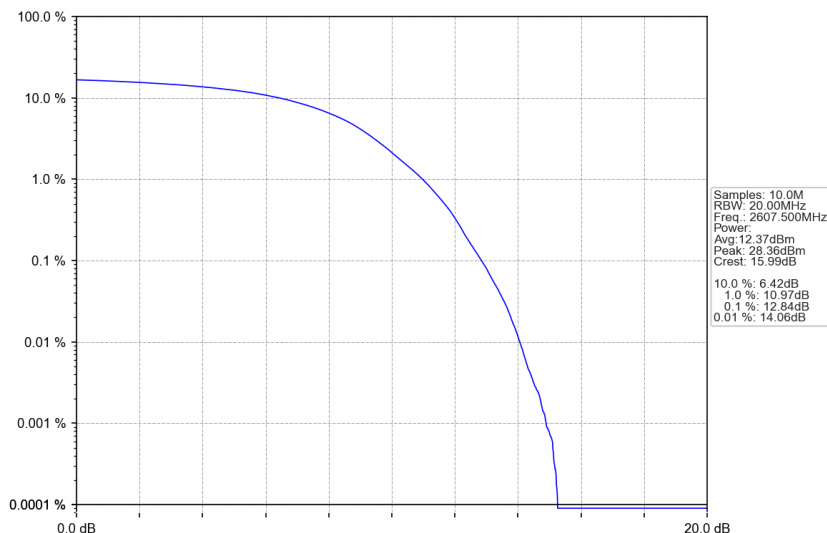


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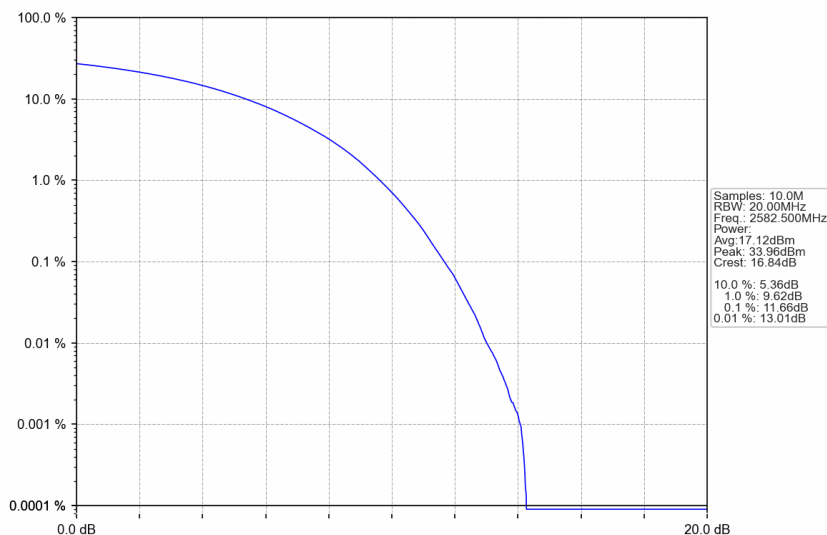
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n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 256 QAM_2607.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_2582.5MHz_Outer_Full



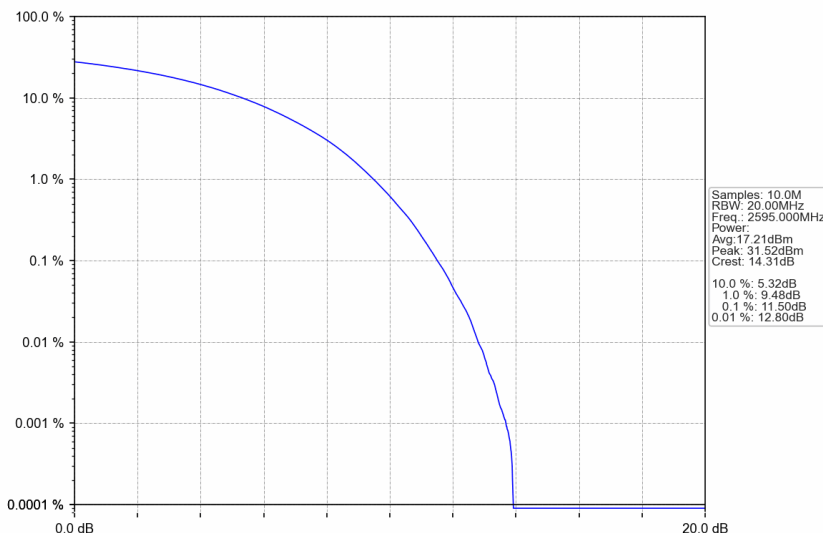
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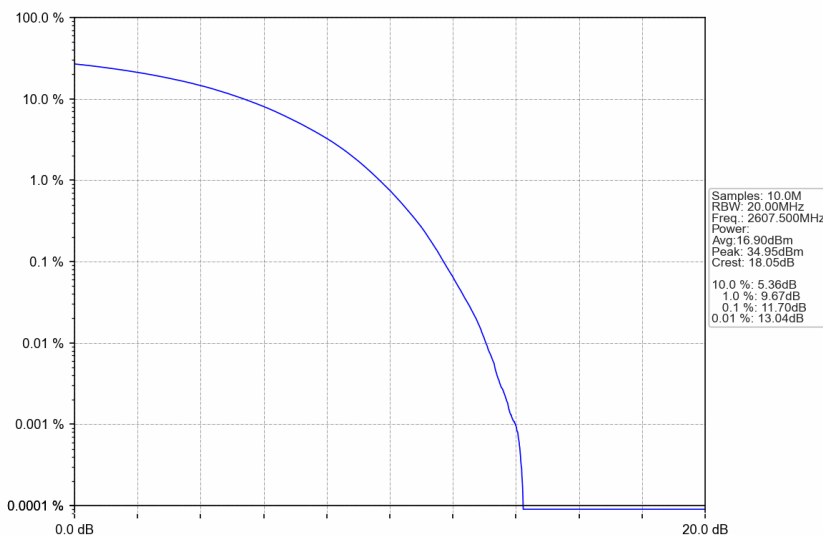
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n38_30kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_2607.5MHz_Outer_Full



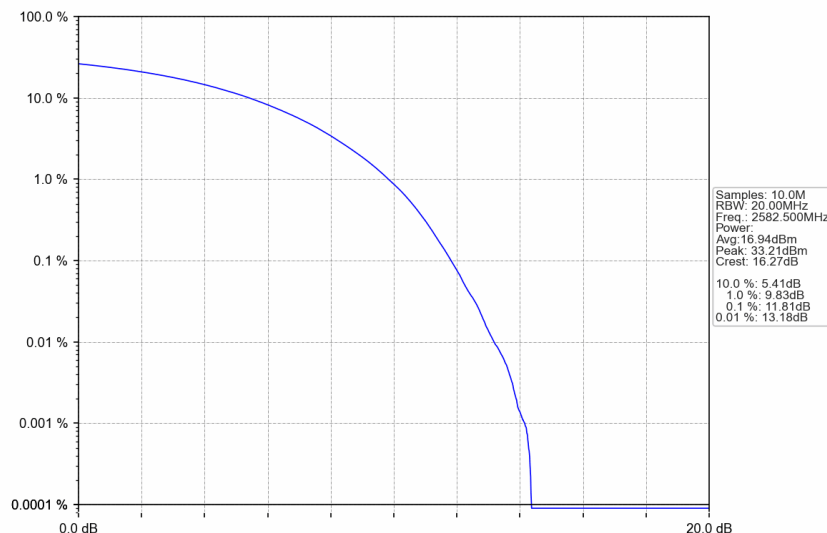
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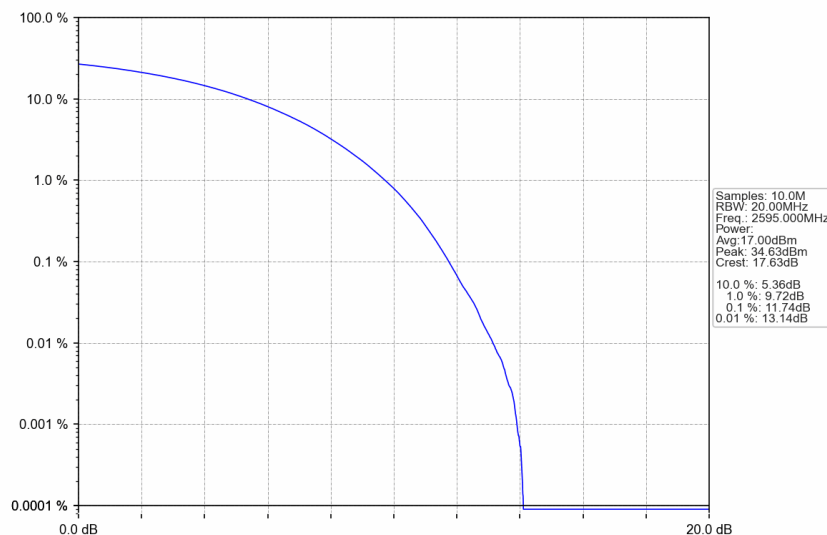
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n38_30kHz_SISO_NTNV_25MHz_CP-OFDM 16 QAM_2582.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_CP-OFDM 16 QAM_2595MHz_Outer_Full



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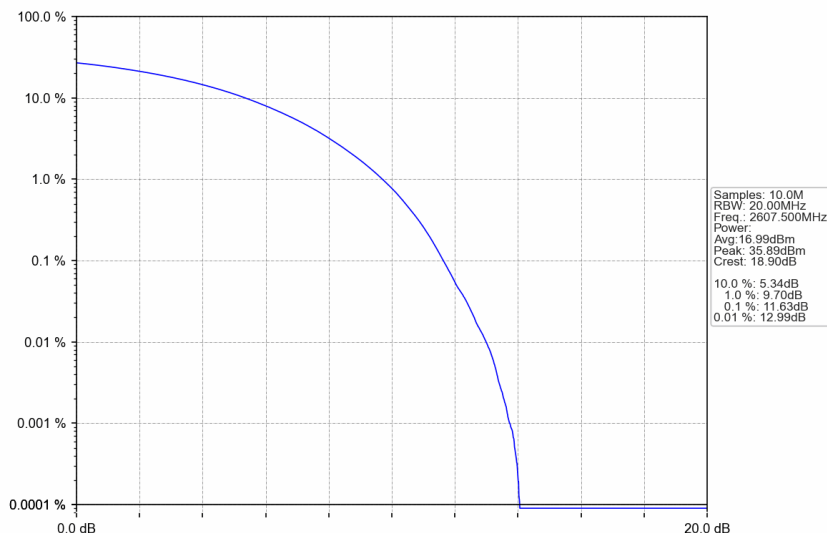
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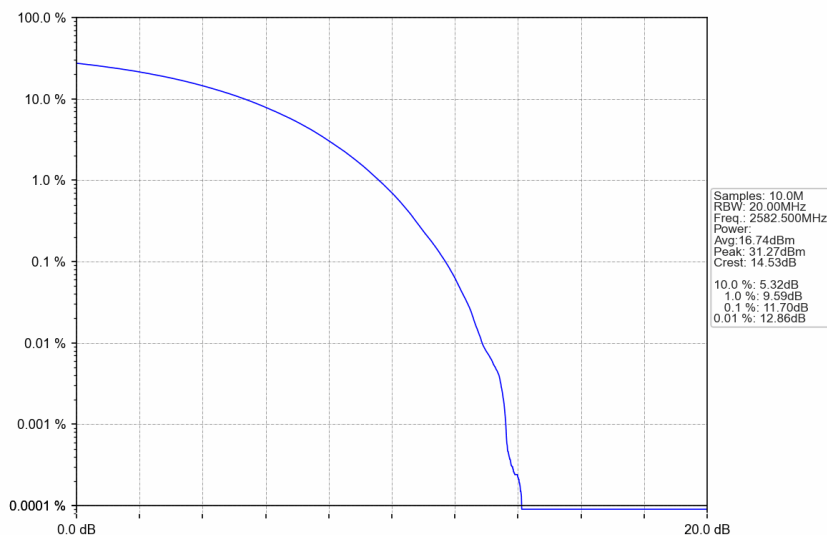
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n38_30kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_2582.5MHz_Outer_Full



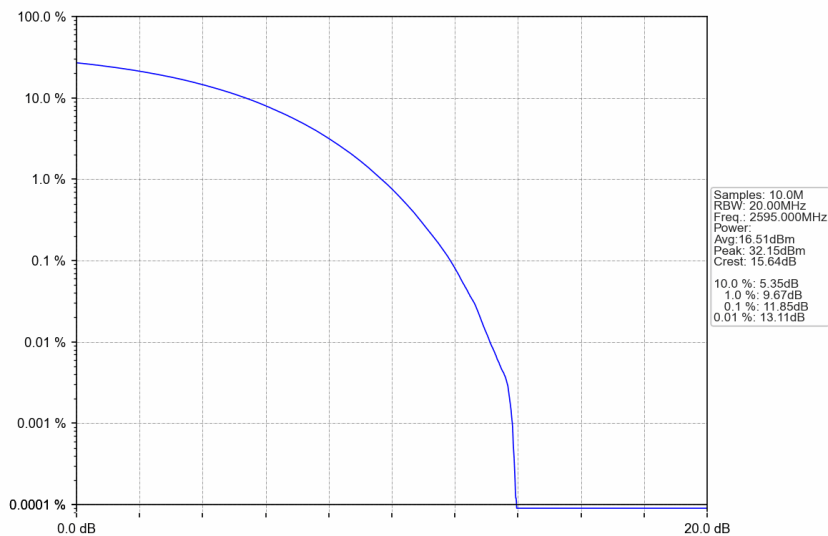
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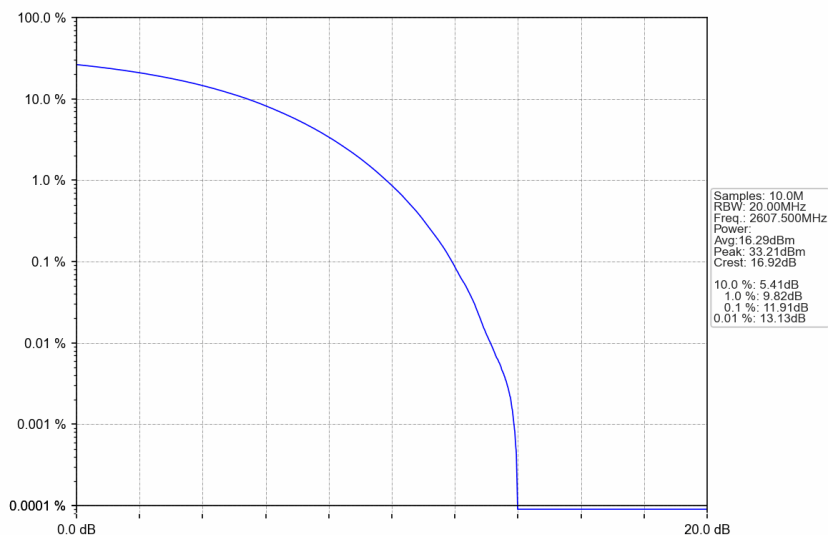
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n38_30kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



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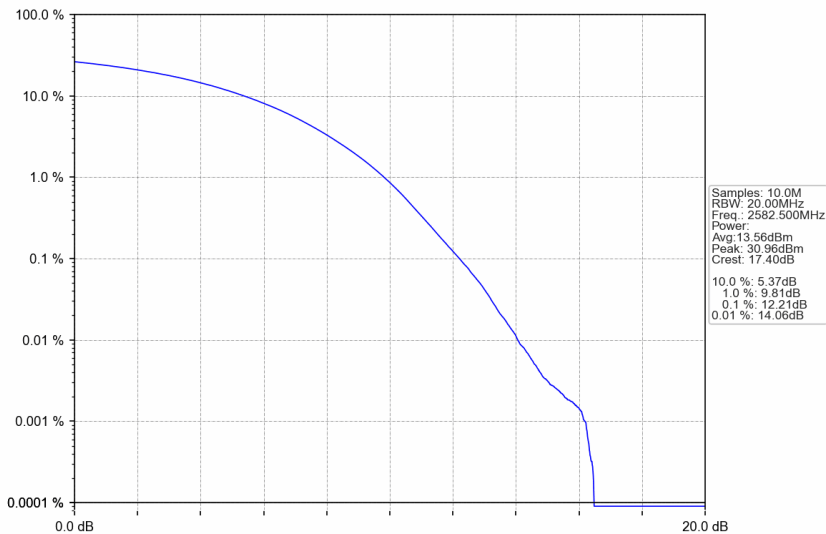


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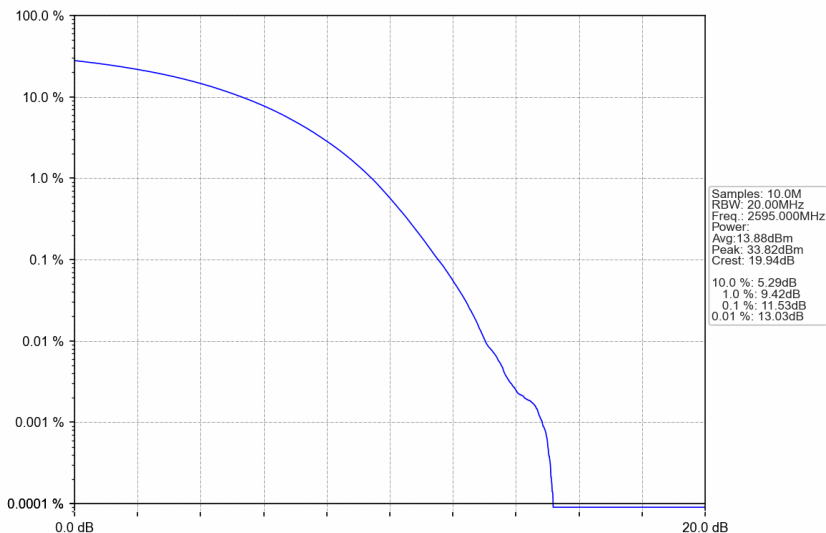
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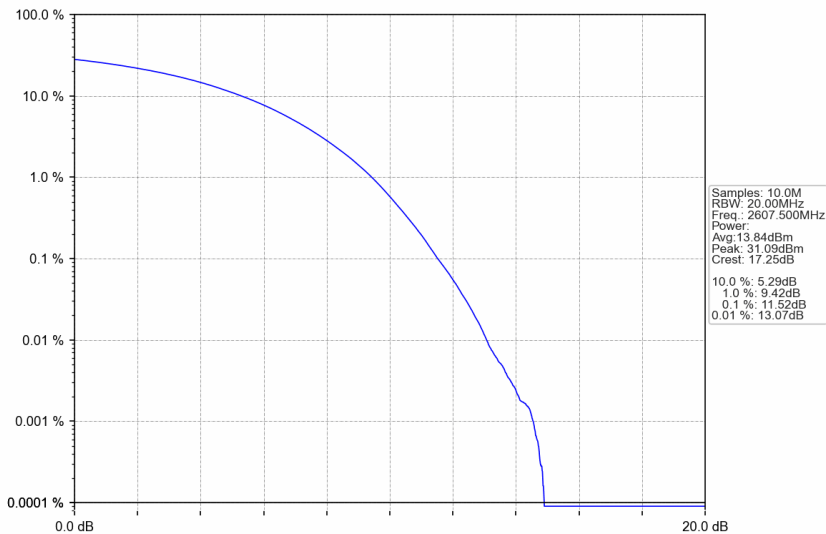


Report No.: SEWM2311000456RG02

Rev.: 01

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5.12 30k_SISO_30MHz_NTNV

5.12.1 Test Result

5G NR n38 SCS=30kHz SISO 30MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2585	Outer_Full	10.31	/	/	<=13	Pass
	2595	Outer_Full	10.54	/	/	<=13	Pass
	2605	Outer_Full	10.19	/	/	<=13	Pass
DFT-s-OFDM QPSK	2585	Outer_Full	11.34	/	/	<=13	Pass
	2595	Outer_Full	11.69	/	/	<=13	Pass
	2605	Outer_Full	12.02	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2585	Outer_Full	12.69	/	/	<=13	Pass
	2595	Outer_Full	9.86	/	/	<=13	Pass
	2605	Outer_Full	12.49	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2585	Outer_Full	12.85	/	/	<=13	Pass
	2595	Outer_Full	12.86	/	/	<=13	Pass
	2605	Outer_Full	12.35	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2585	Outer_Full	10.39	/	/	<=13	Pass
	2595	Outer_Full	10.37	/	/	<=13	Pass
	2605	Outer_Full	12.58	/	/	<=13	Pass
CP-OFDM QPSK	2585	Outer_Full	11.60	/	/	<=13	Pass
	2595	Outer_Full	11.91	/	/	<=13	Pass
	2605	Outer_Full	11.94	/	/	<=13	Pass
CP-OFDM 16 QAM	2585	Outer_Full	11.96	/	/	<=13	Pass
	2595	Outer_Full	11.66	/	/	<=13	Pass
	2605	Outer_Full	11.97	/	/	<=13	Pass
CP-OFDM 64 QAM	2585	Outer_Full	11.87	/	/	<=13	Pass
	2595	Outer_Full	11.61	/	/	<=13	Pass
	2605	Outer_Full	11.91	/	/	<=13	Pass
CP-OFDM 256 QAM	2585	Outer_Full	11.97	/	/	<=13	Pass
	2595	Outer_Full	11.82	/	/	<=13	Pass
	2605	Outer_Full	11.95	/	/	<=13	Pass

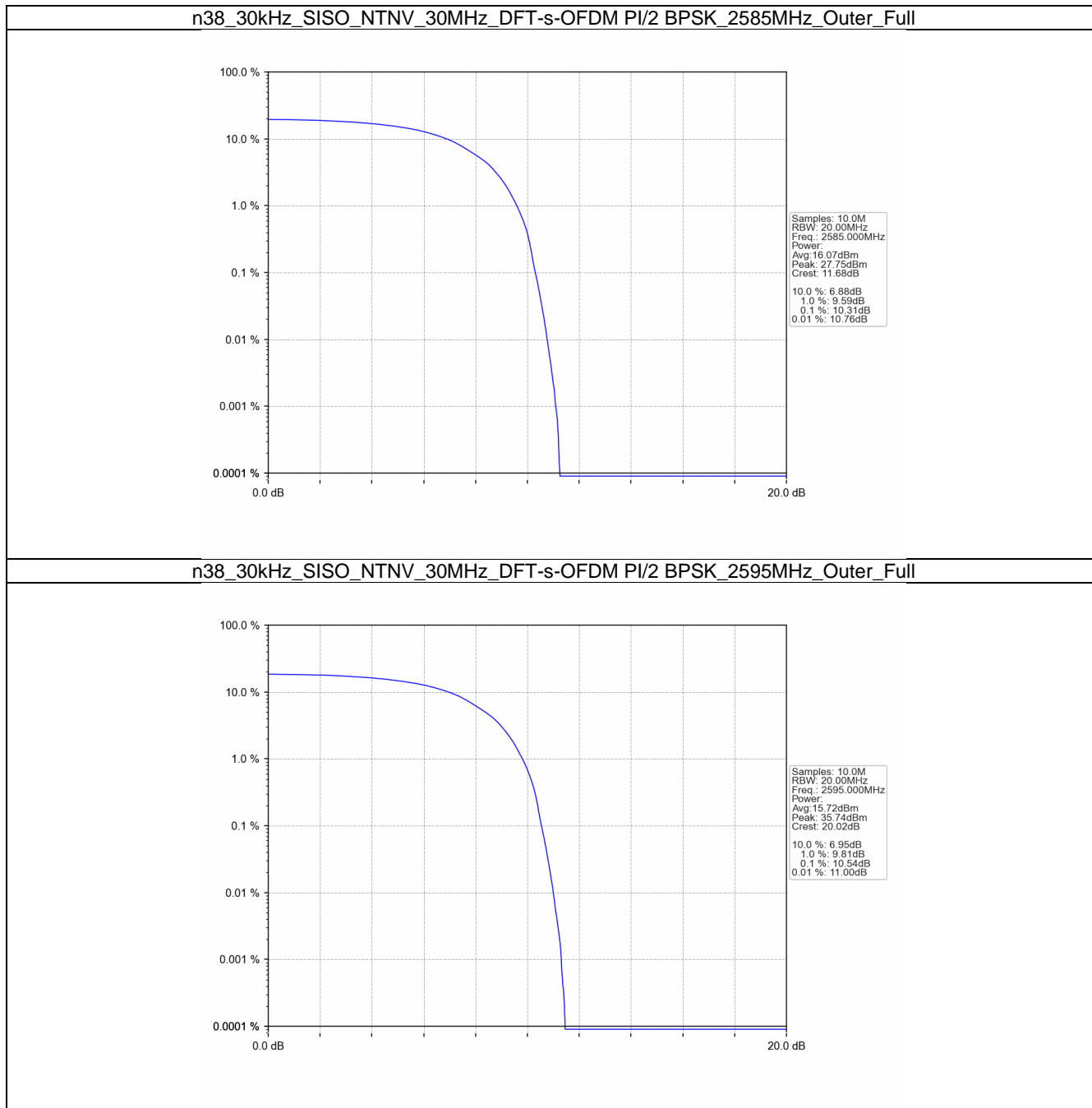


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5.12.2 Test Graph

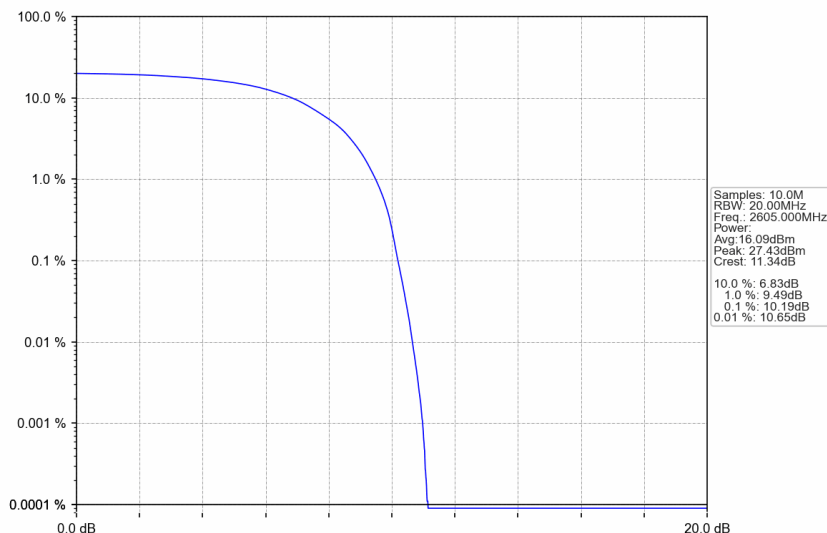


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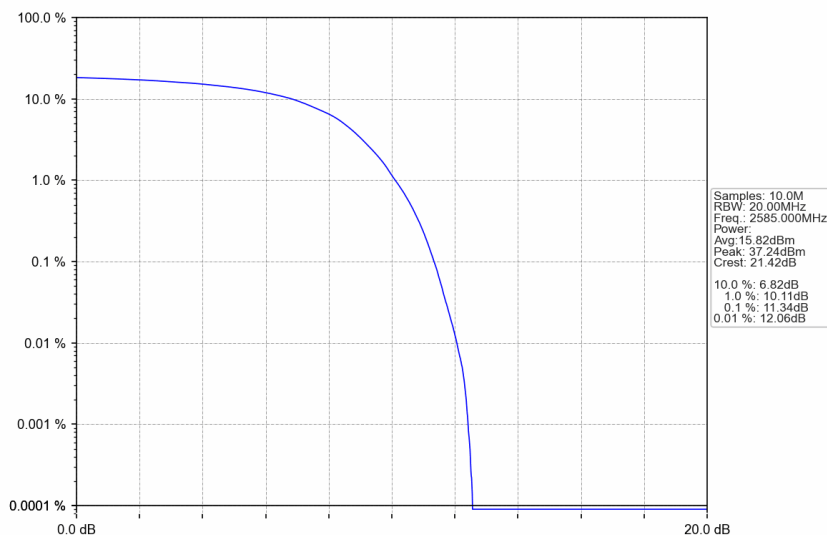
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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2605MHz_Outer_Full



n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2585MHz_Outer_Full

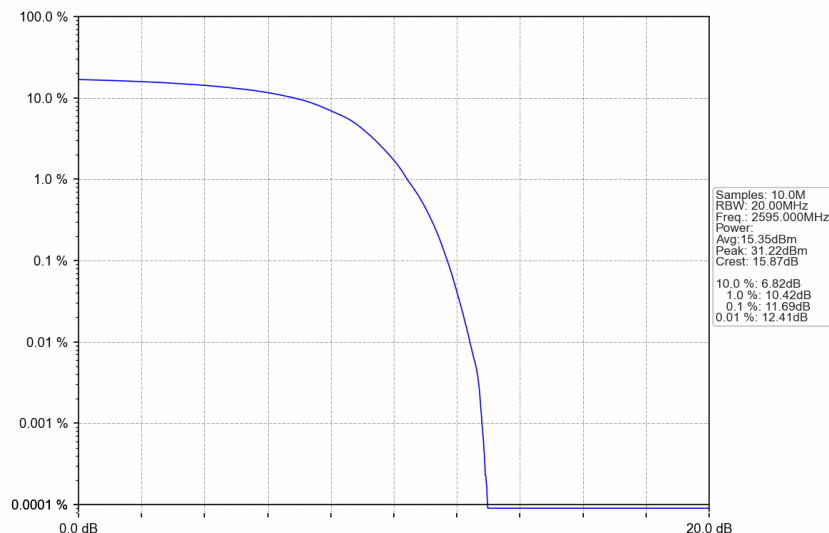


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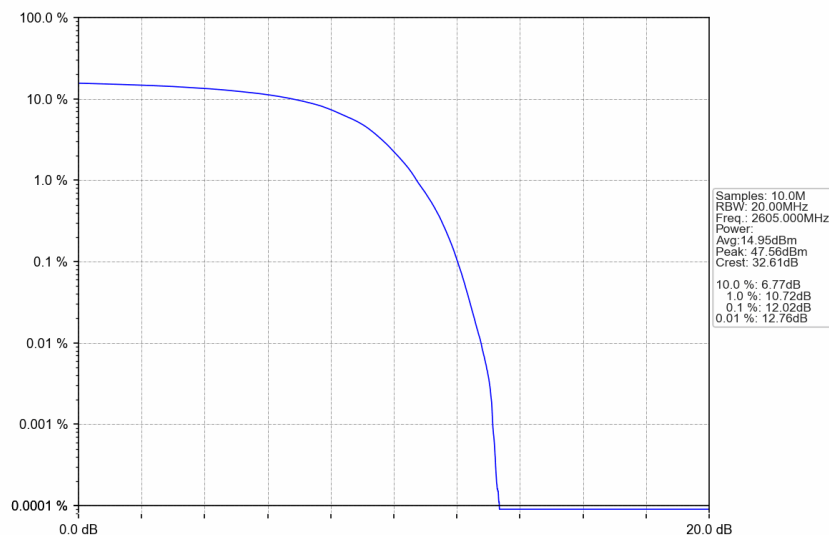
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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2605MHz_Outer_Full



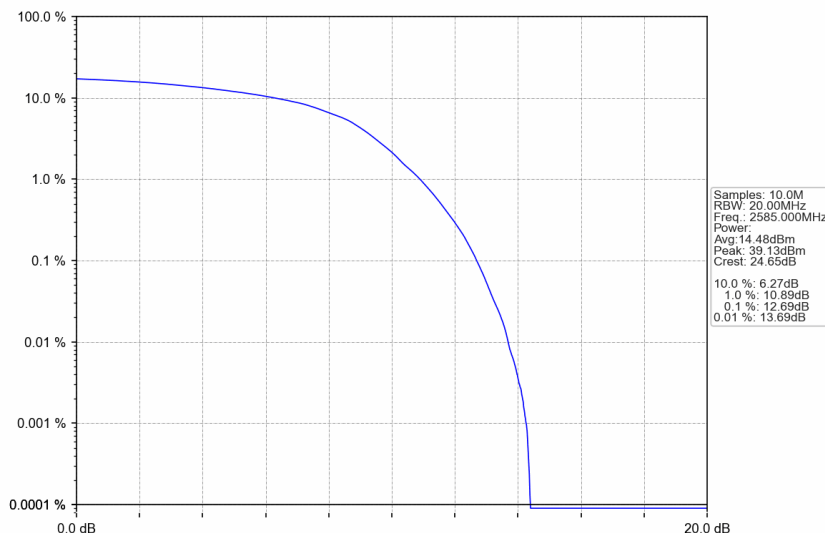
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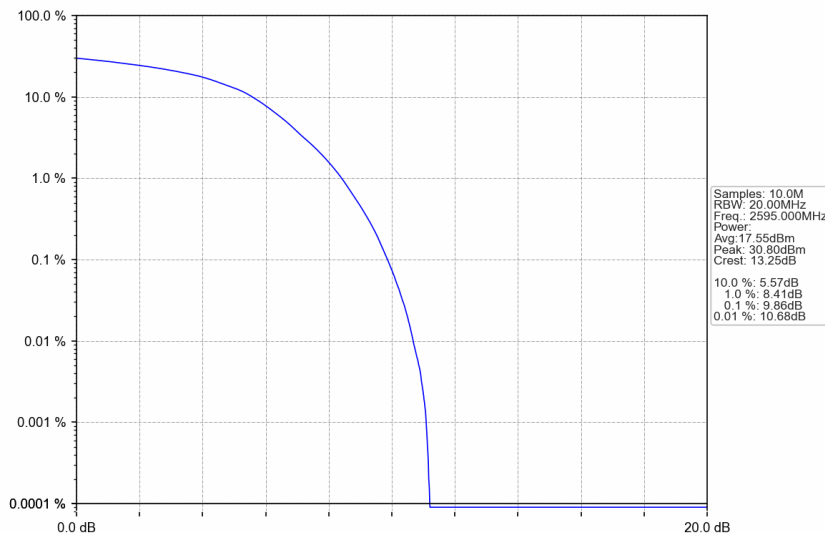
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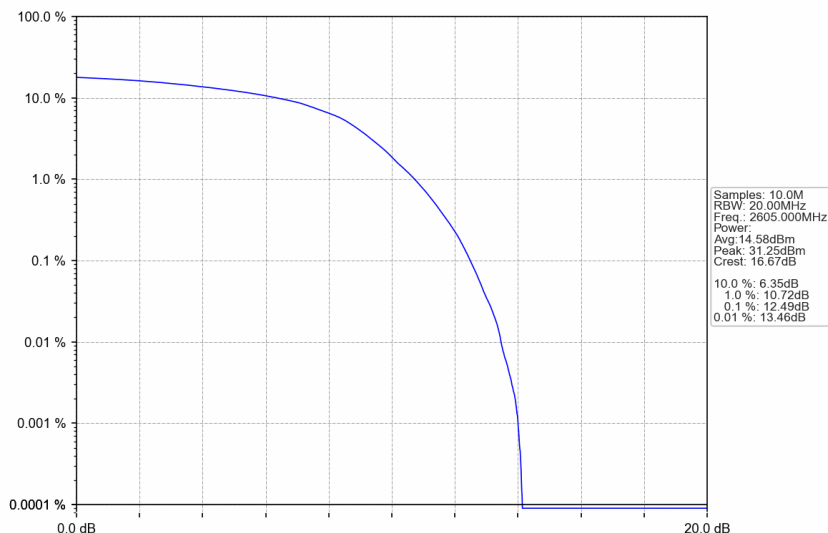


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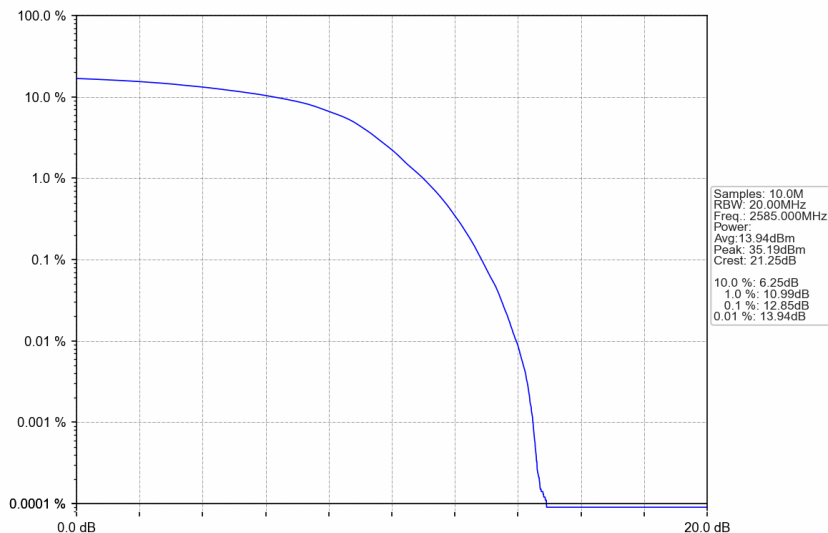
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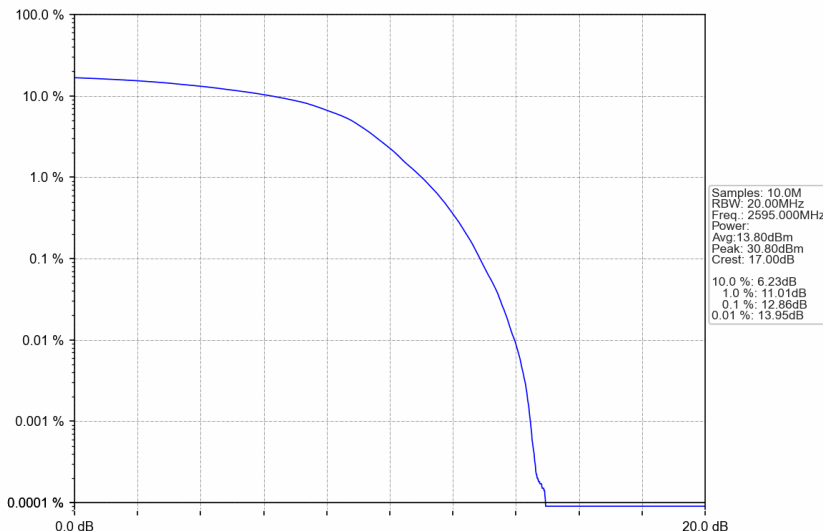
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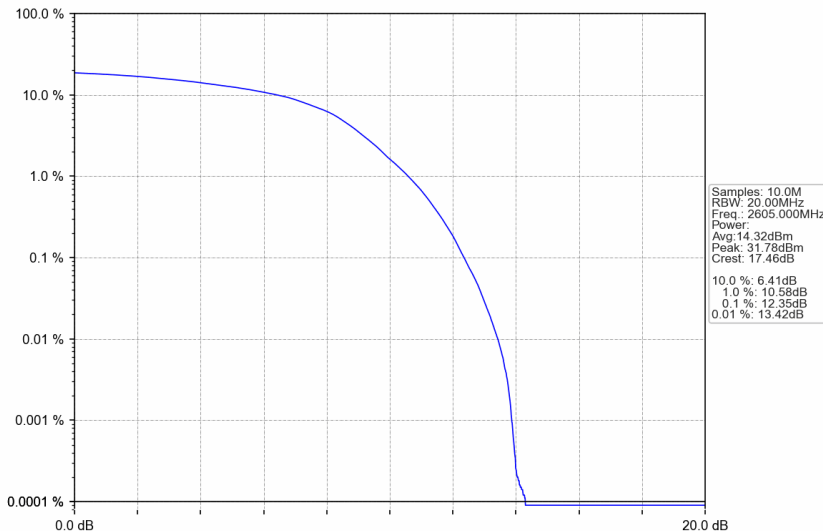
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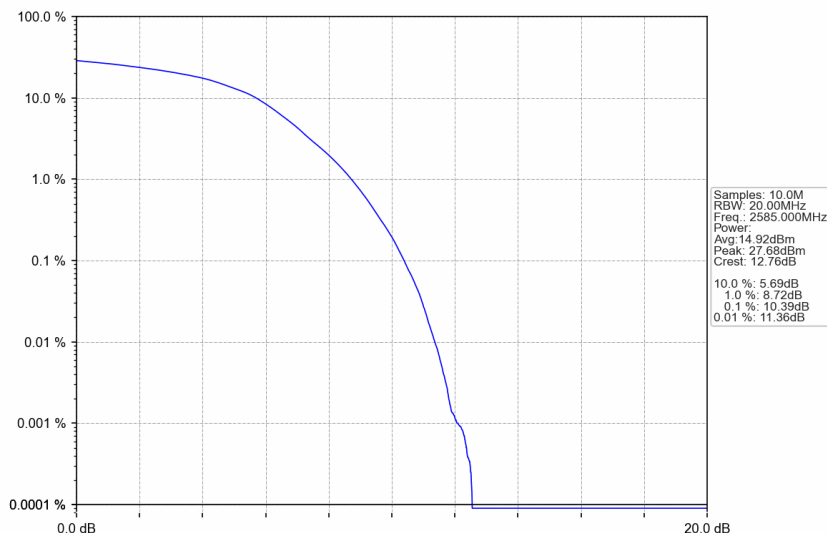
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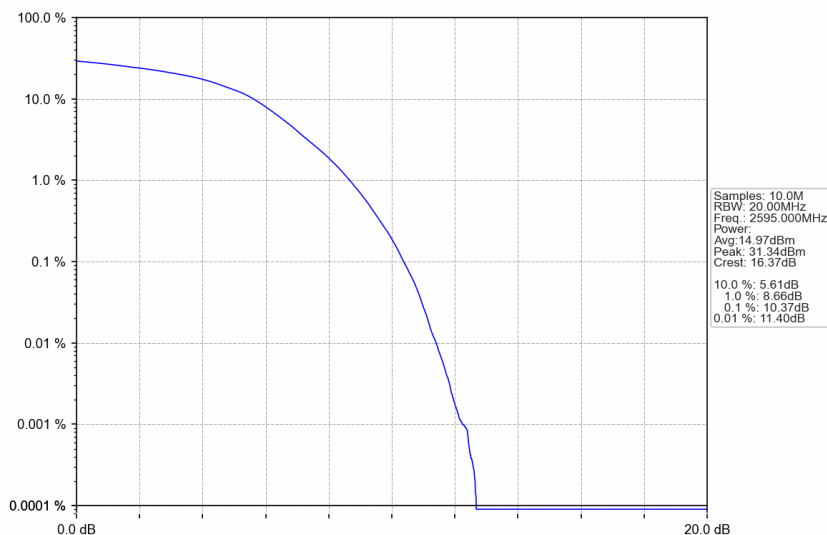
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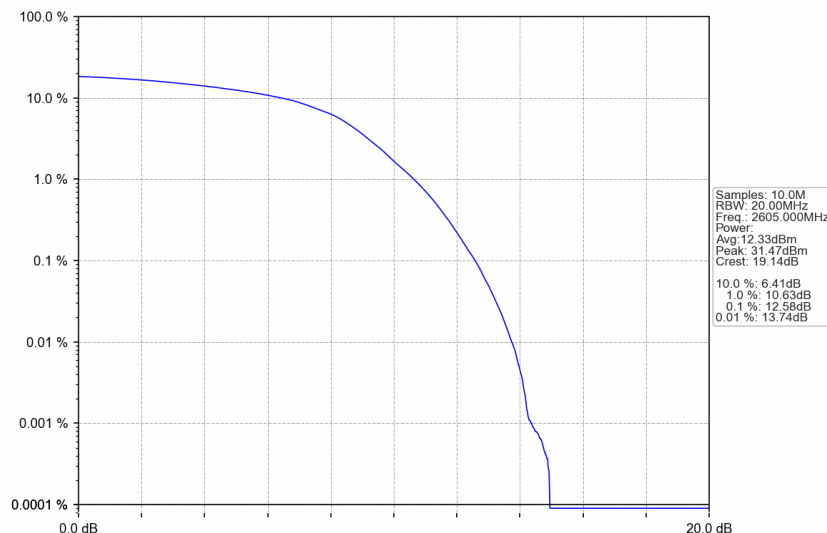
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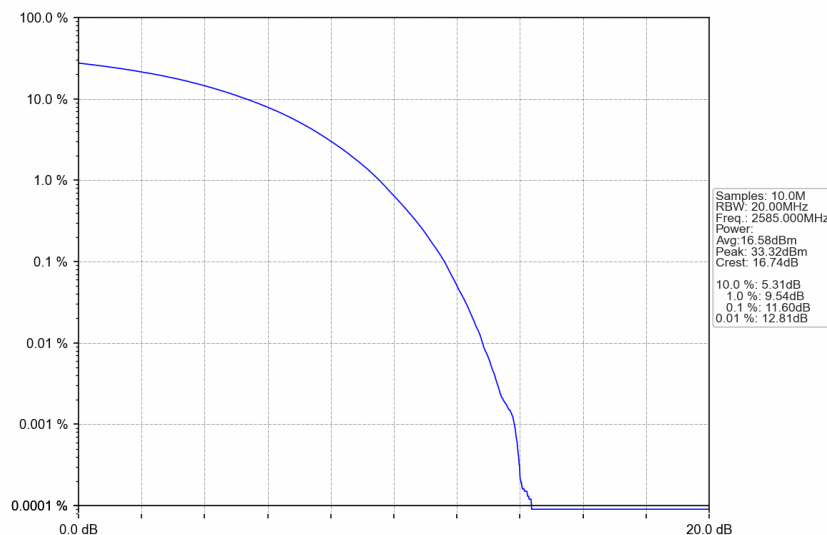
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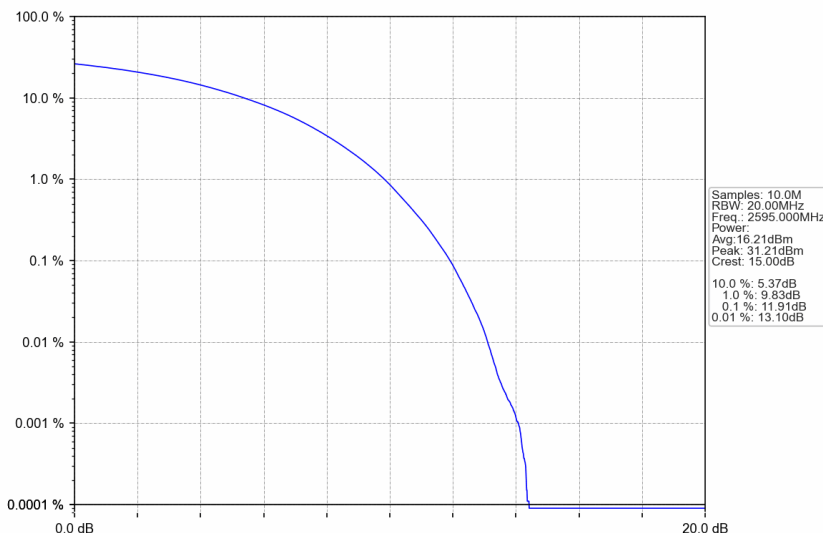
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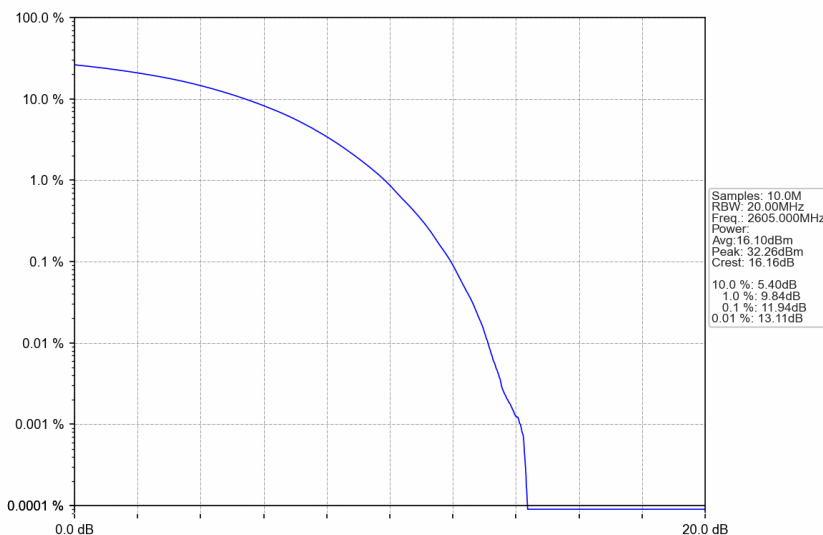
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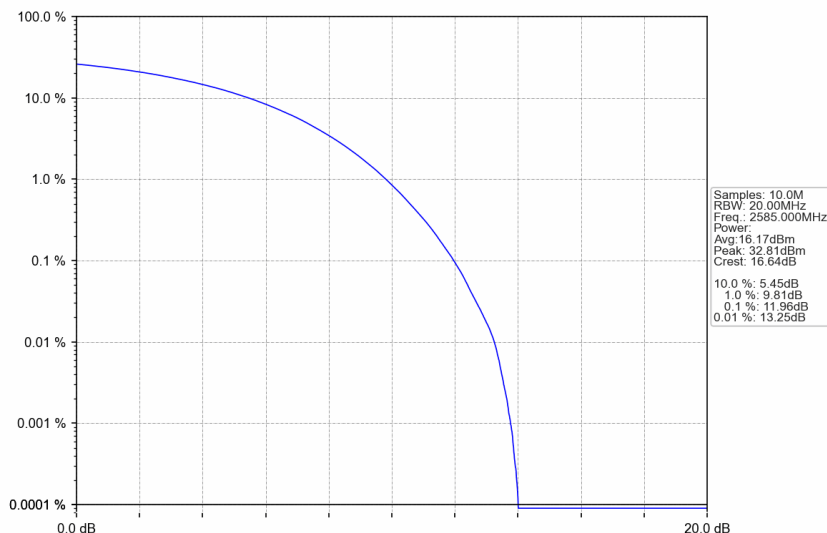
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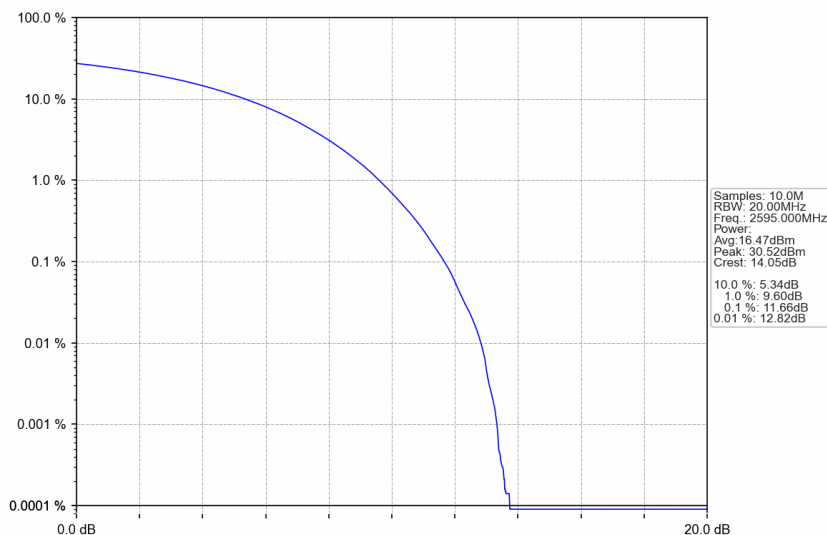
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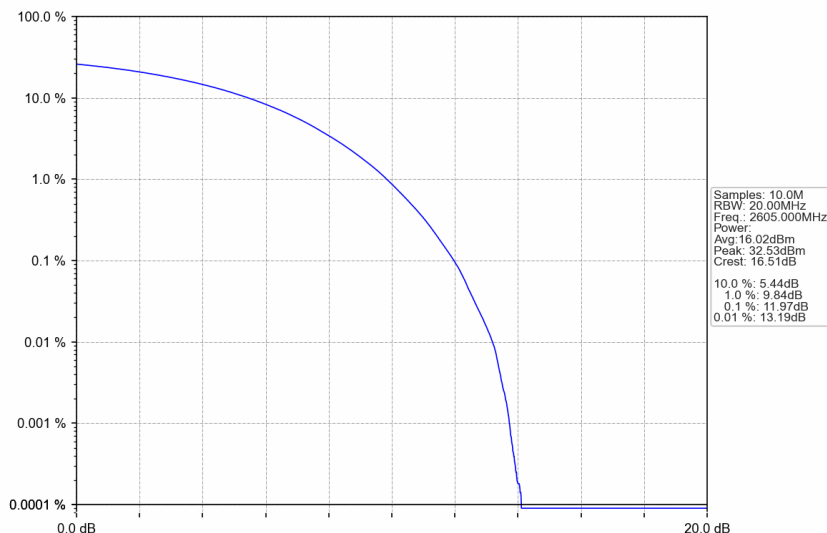


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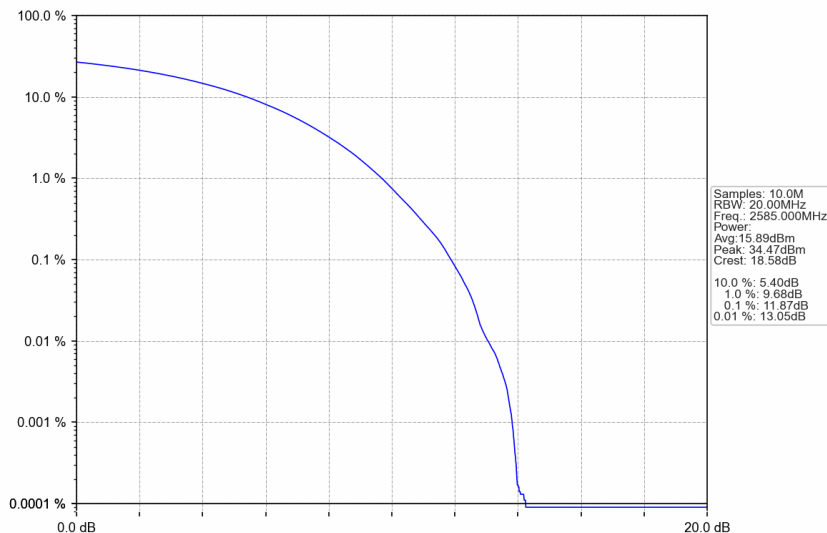
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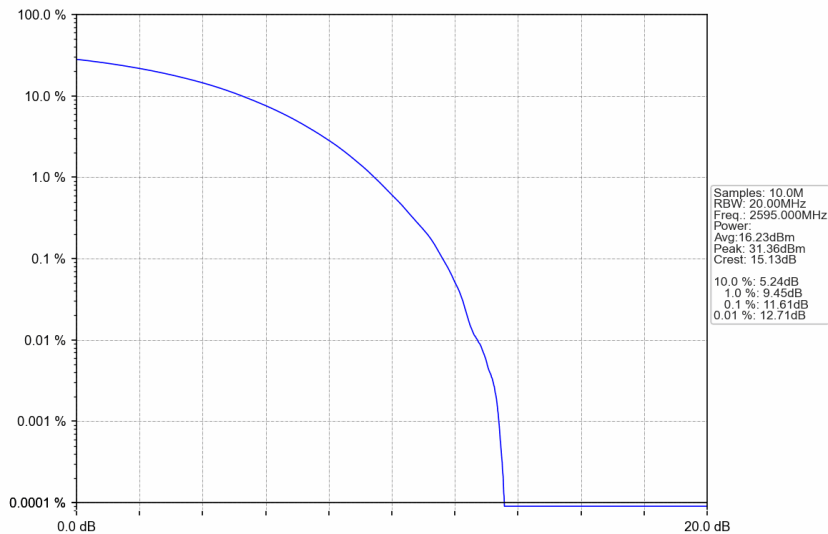
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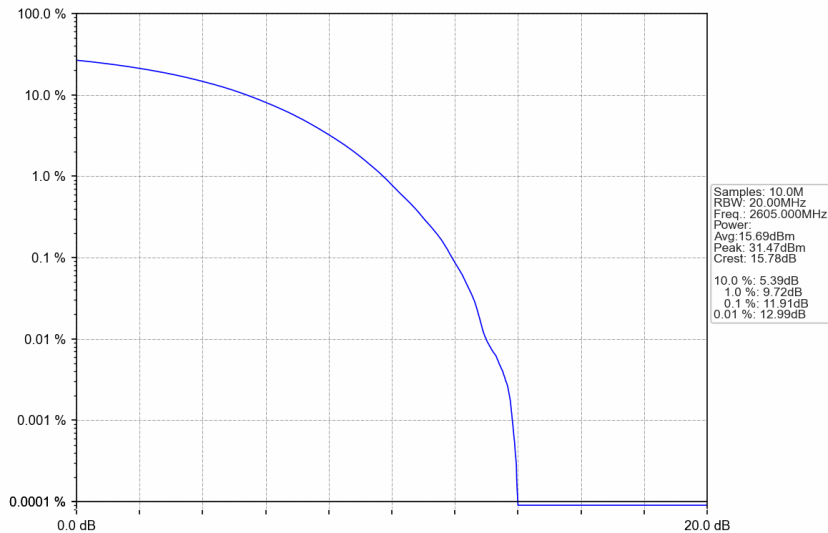
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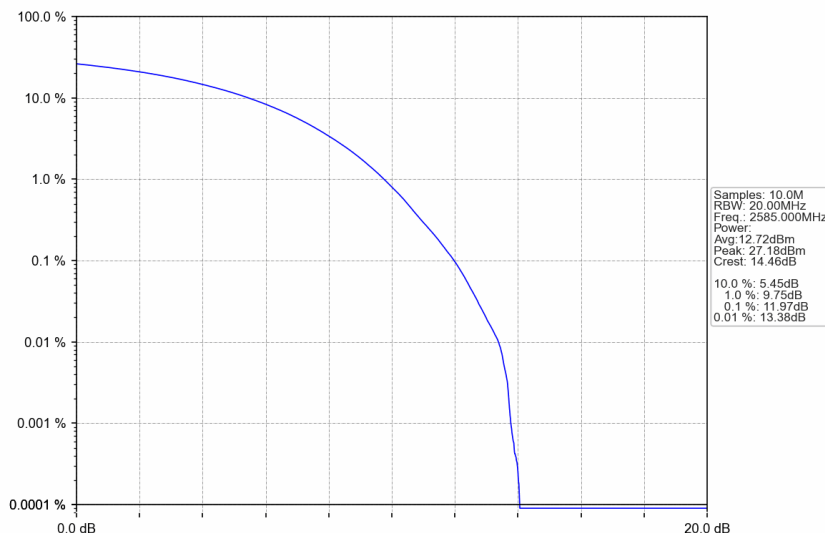


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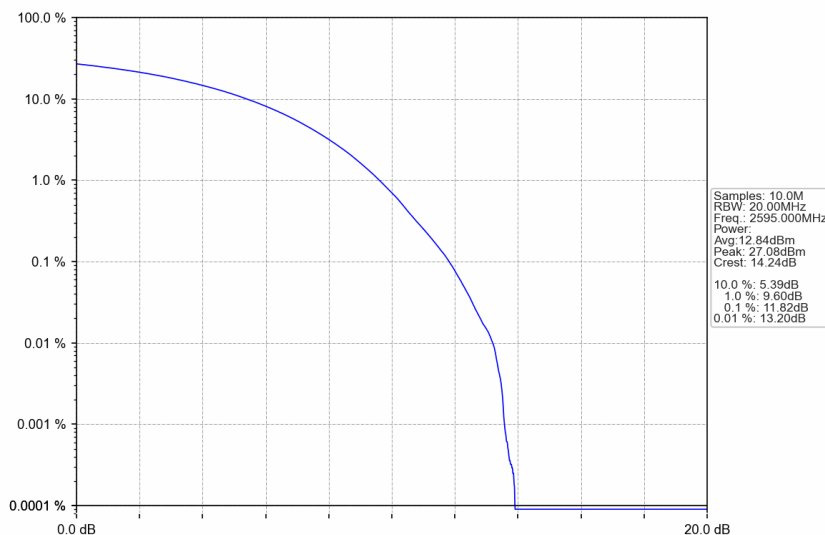
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n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_2585MHz_Outer_Full



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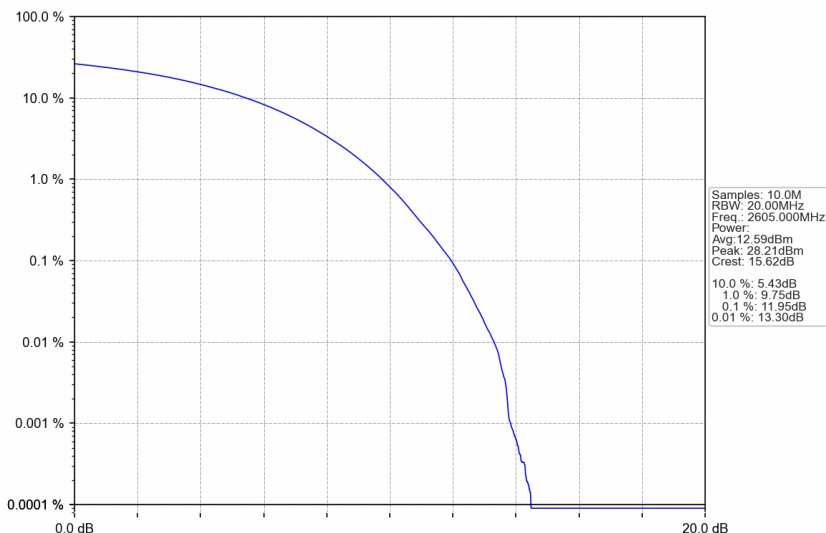


Report No.: SEWM2311000456RG02

Rev.: 01

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n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_2605MHz_Outer_Full



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5.13 30k_SISO_40MHz_NTNV

5.13.1 Test Result

5G NR n38 SCS=30kHz SISO 40MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2590	Outer_Full	12.17	/	/	<=13	Pass
	2595	Outer_Full	12.33	/	/	<=13	Pass
	2600	Outer_Full	12.25	/	/	<=13	Pass
DFT-s-OFDM QPSK	2590	Outer_Full	12.66	/	/	<=13	Pass
	2595	Outer_Full	12.74	/	/	<=13	Pass
	2600	Outer_Full	12.91	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2590	Outer_Full	10.52	/	/	<=13	Pass
	2595	Outer_Full	10.53	/	/	<=13	Pass
	2600	Outer_Full	10.73	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2590	Outer_Full	10.41	/	/	<=13	Pass
	2595	Outer_Full	10.35	/	/	<=13	Pass
	2600	Outer_Full	10.35	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2590	Outer_Full	10.35	/	/	<=13	Pass
	2595	Outer_Full	10.31	/	/	<=13	Pass
	2600	Outer_Full	10.33	/	/	<=13	Pass
CP-OFDM QPSK	2590	Outer_Full	11.65	/	/	<=13	Pass
	2595	Outer_Full	11.90	/	/	<=13	Pass
	2600	Outer_Full	12.11	/	/	<=13	Pass
CP-OFDM 16 QAM	2590	Outer_Full	11.59	/	/	<=13	Pass
	2595	Outer_Full	11.63	/	/	<=13	Pass
	2600	Outer_Full	11.68	/	/	<=13	Pass
CP-OFDM 64 QAM	2590	Outer_Full	11.70	/	/	<=13	Pass
	2595	Outer_Full	11.98	/	/	<=13	Pass
	2600	Outer_Full	12.08	/	/	<=13	Pass
CP-OFDM 256 QAM	2590	Outer_Full	11.65	/	/	<=13	Pass
	2595	Outer_Full	11.67	/	/	<=13	Pass
	2600	Outer_Full	11.83	/	/	<=13	Pass

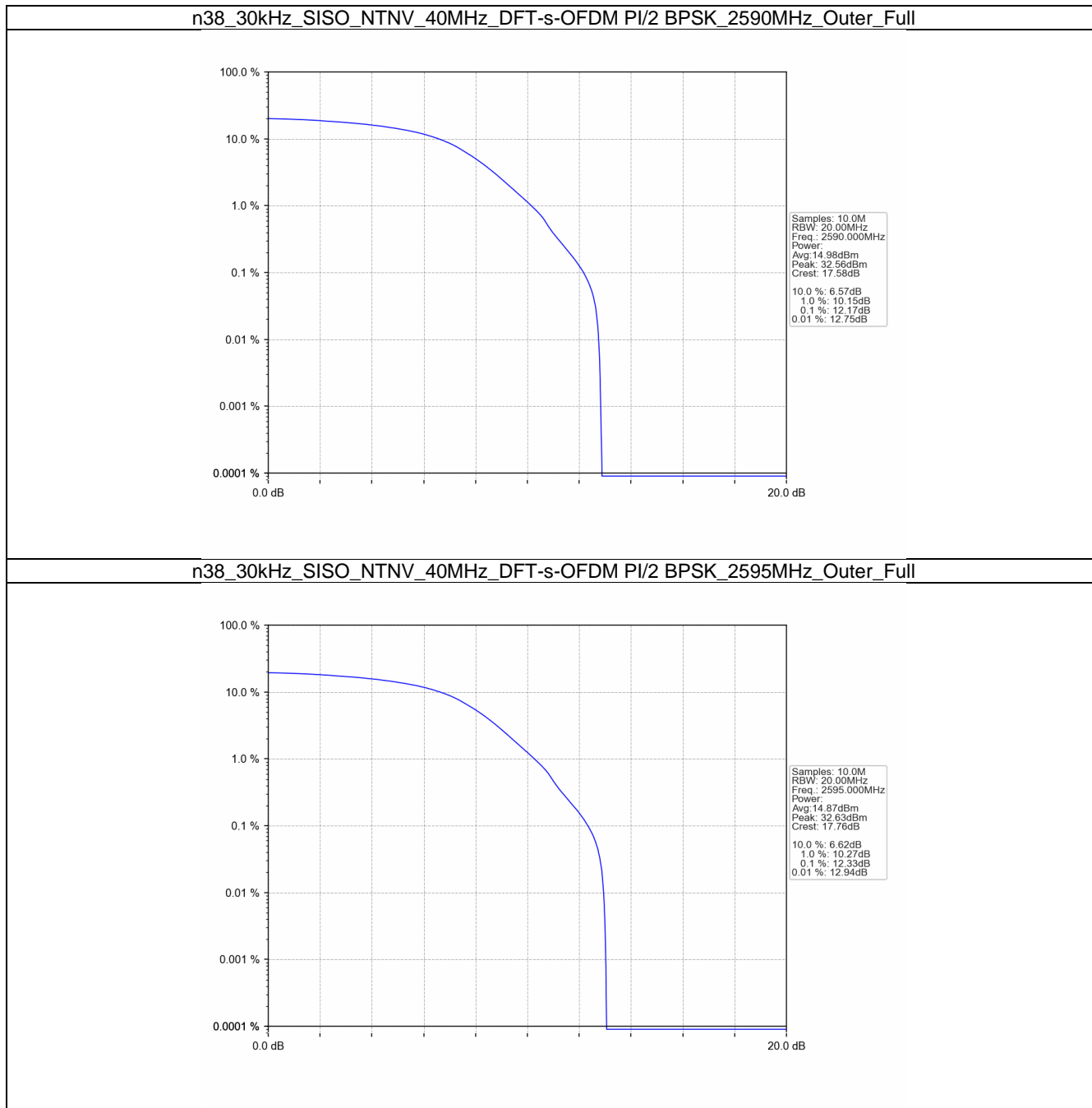


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5.13.2 Test Graph

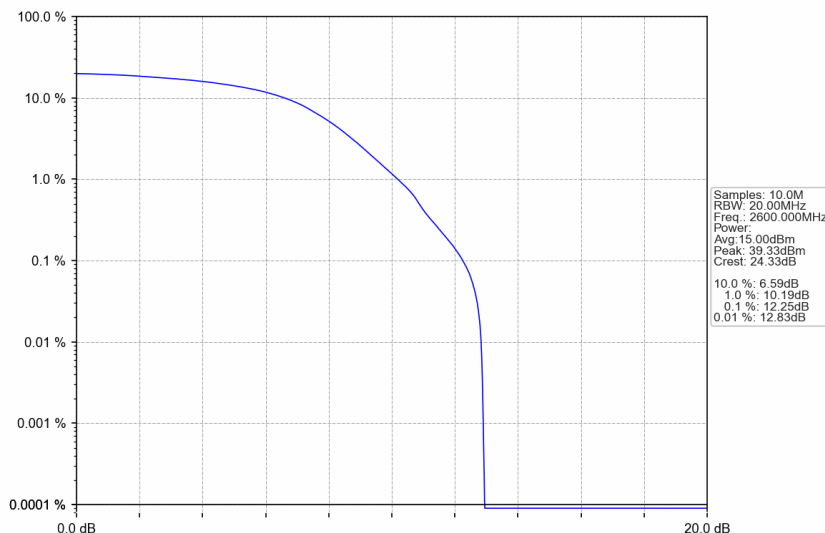


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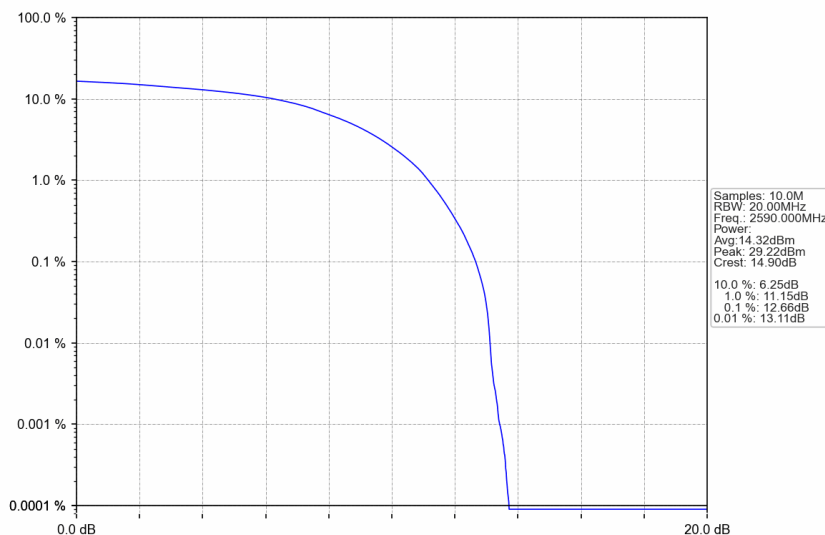
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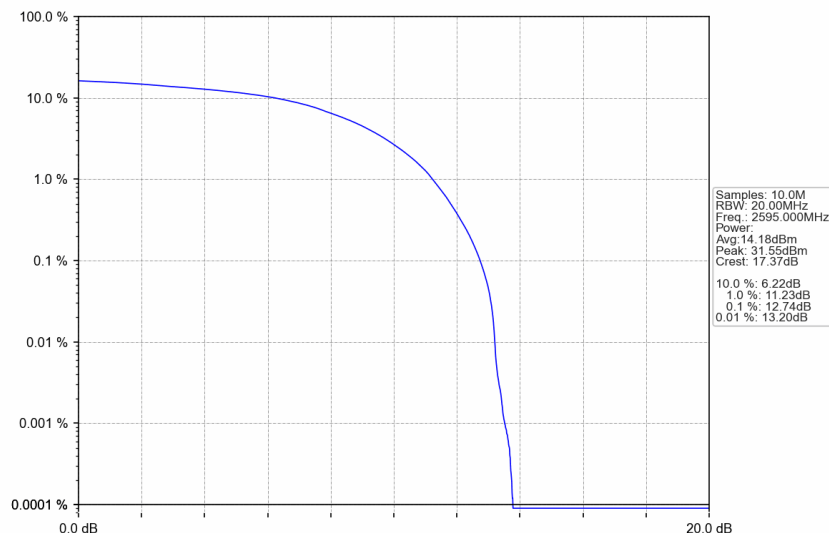
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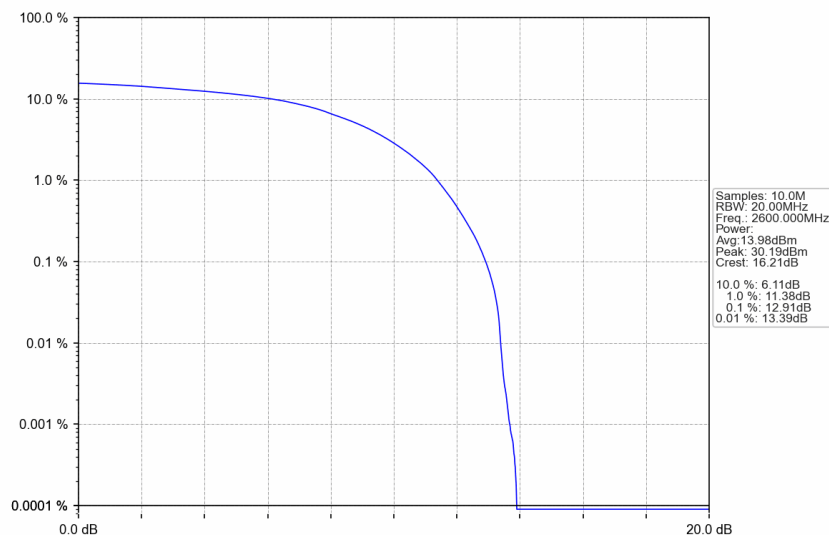
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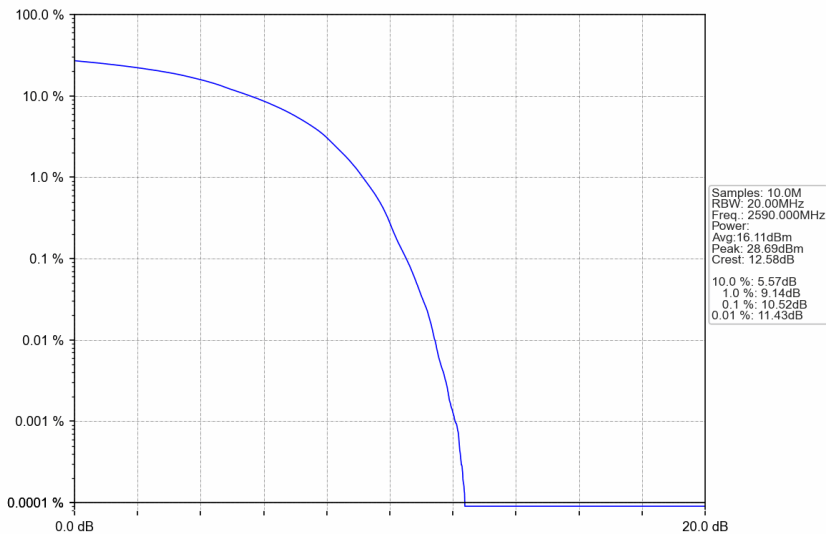
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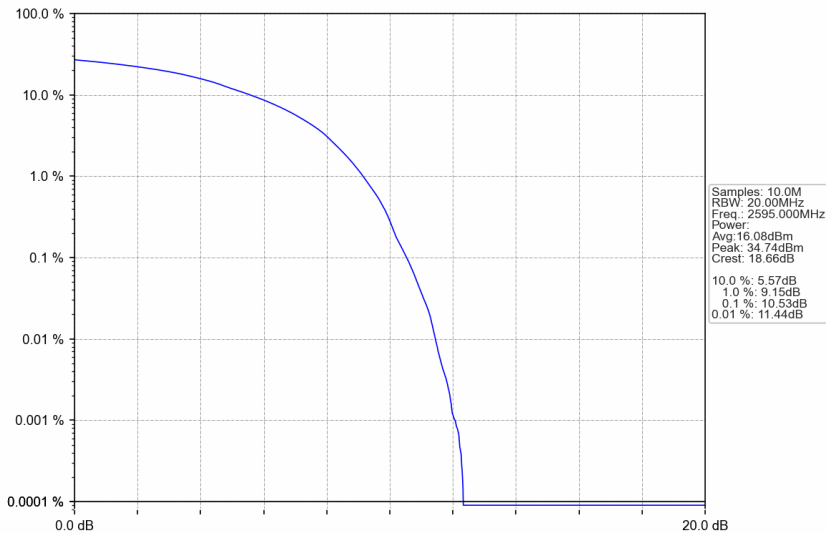
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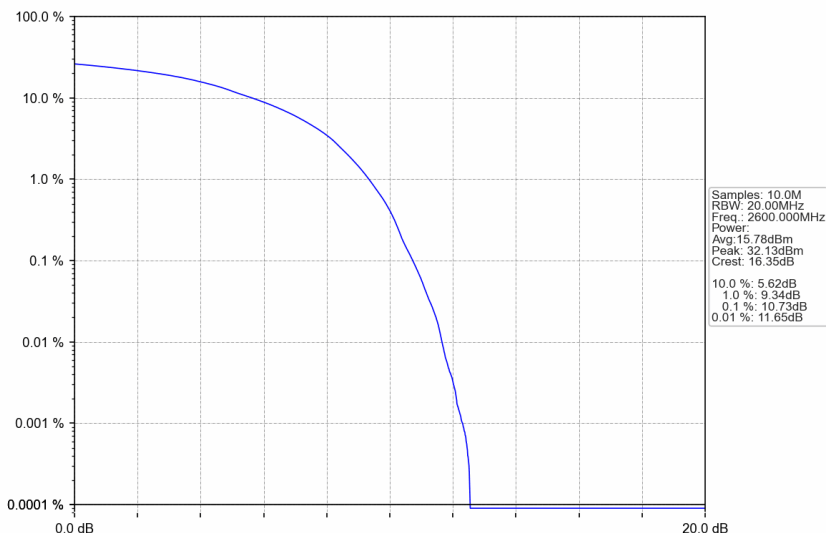
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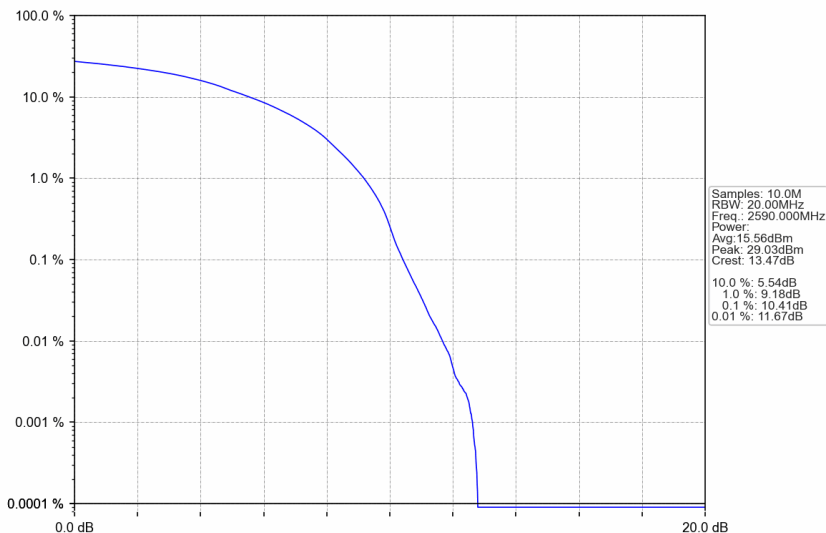
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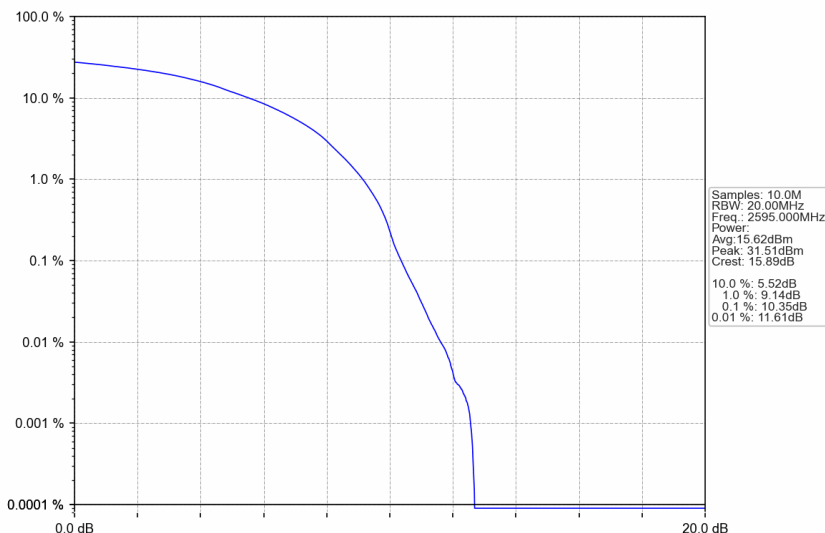
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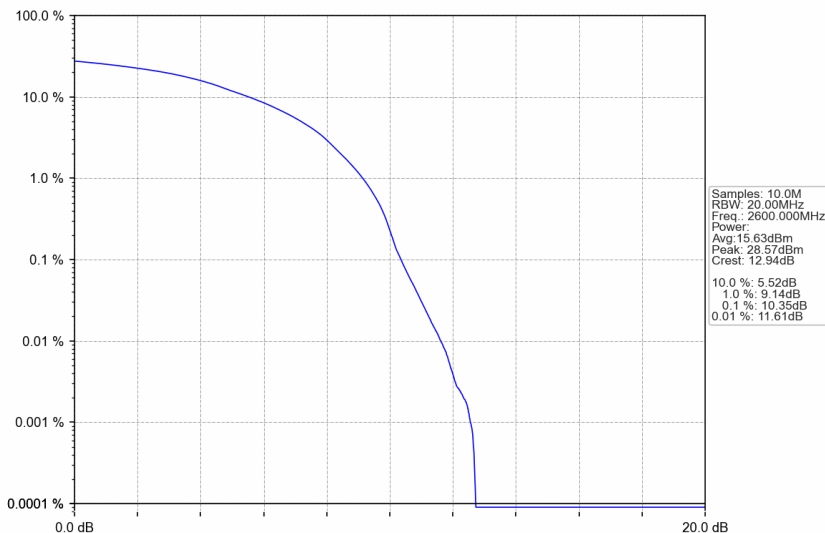
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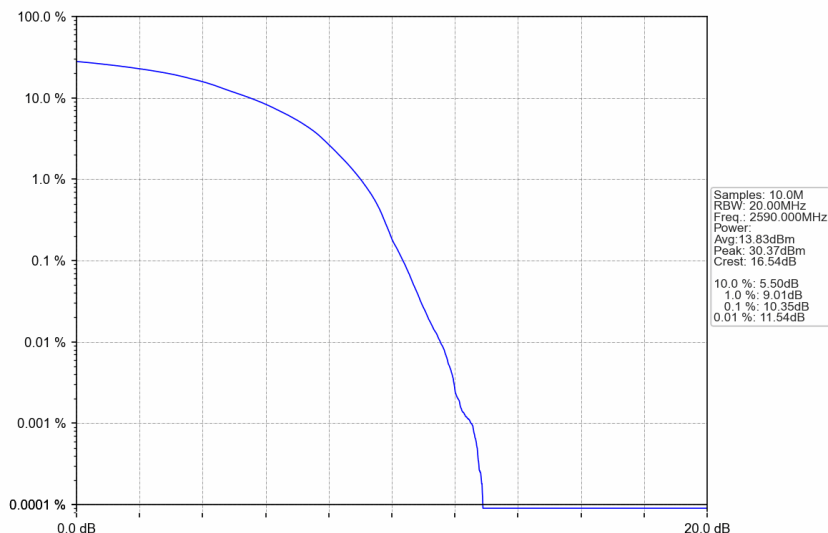


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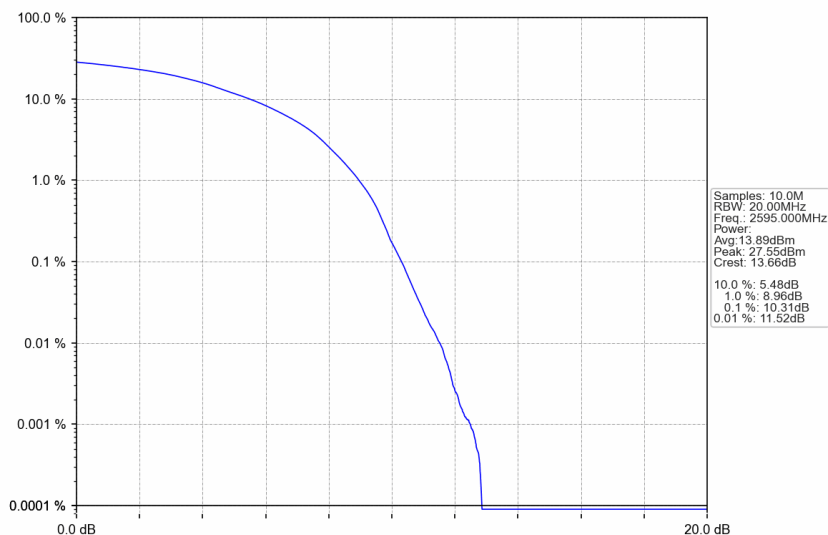
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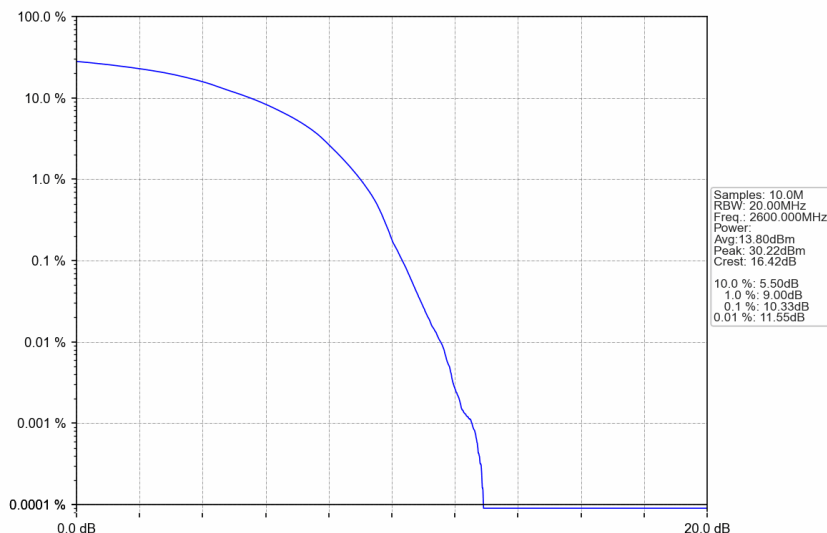
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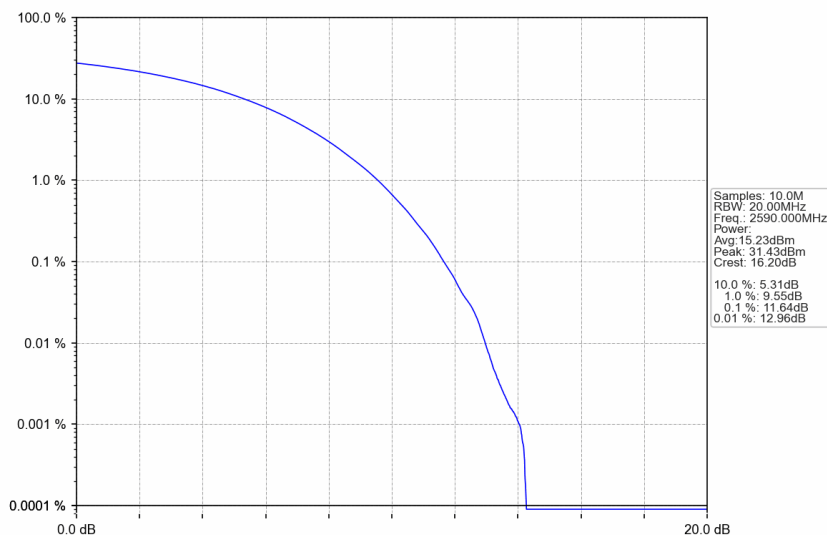
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_2600MHz_Outer_Full



n38_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2590MHz_Outer_Full



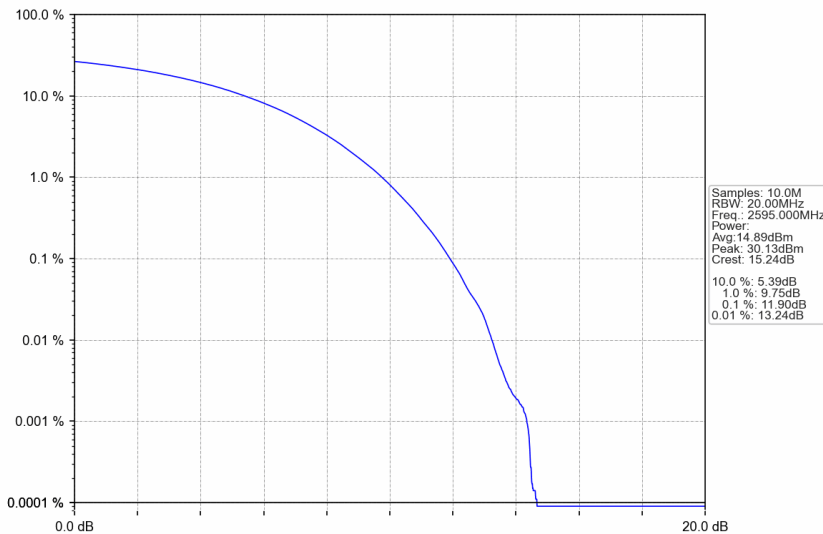
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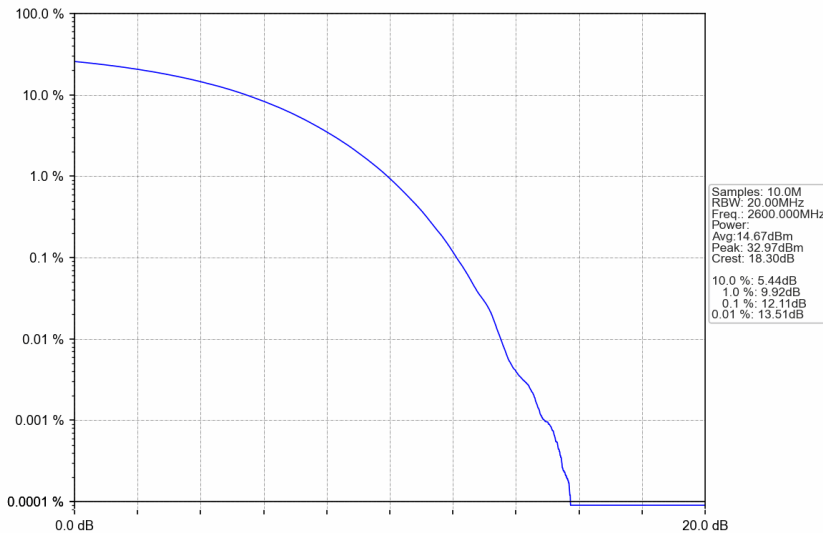
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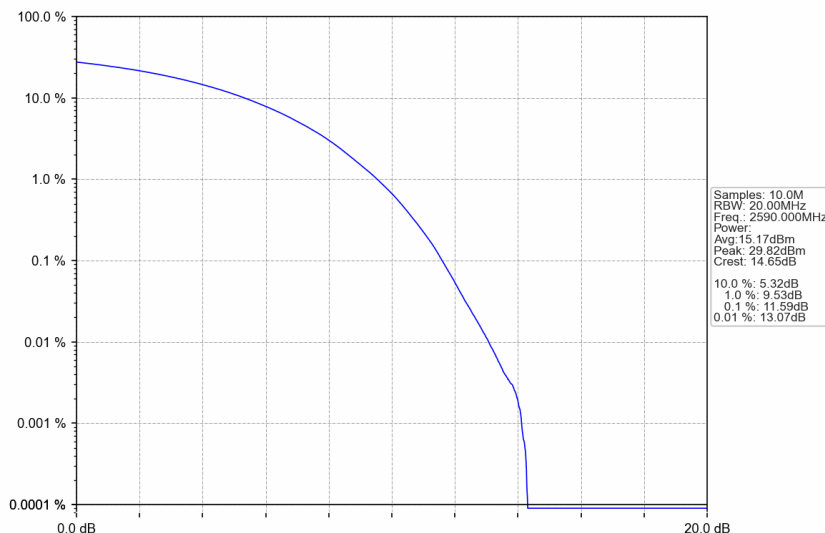
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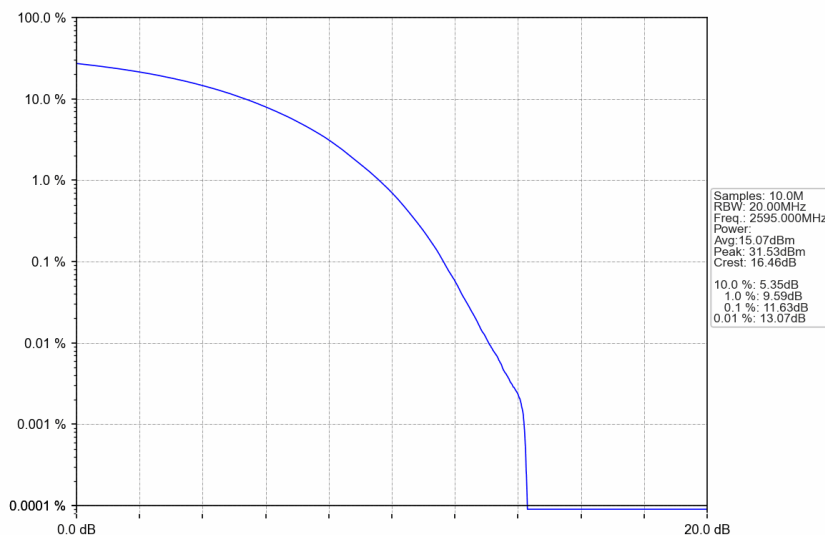
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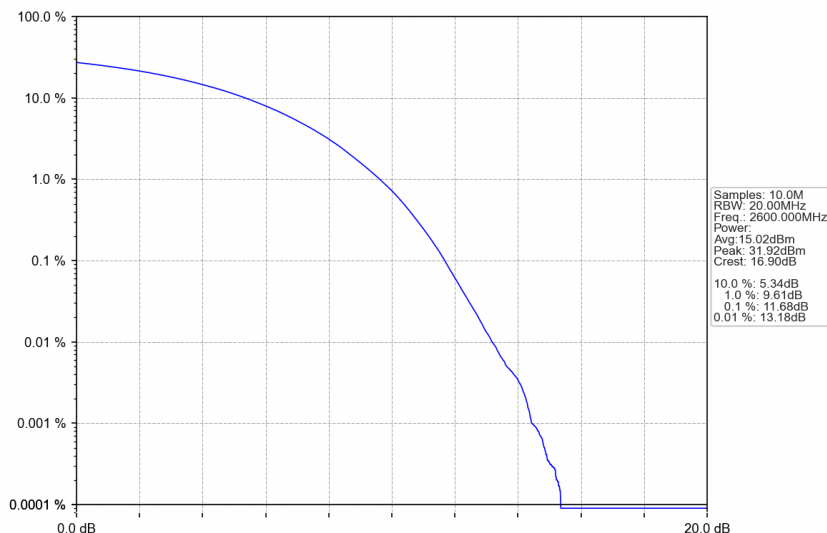
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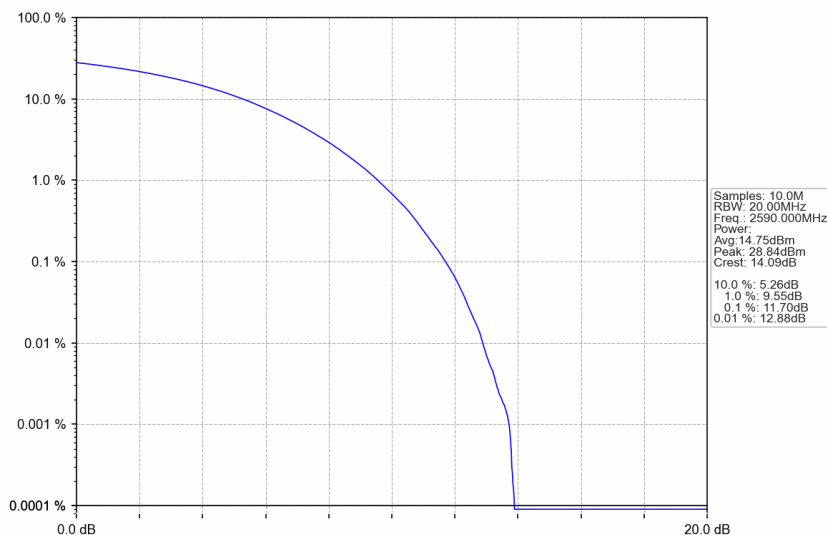
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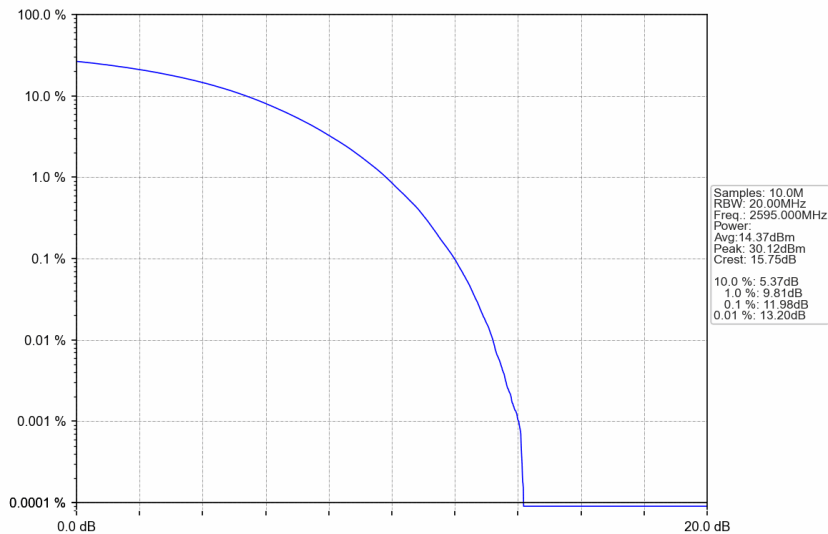
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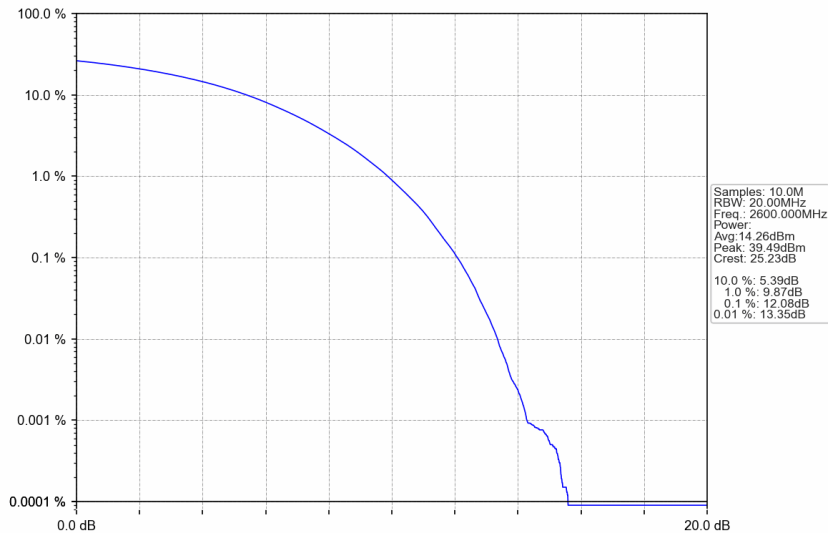
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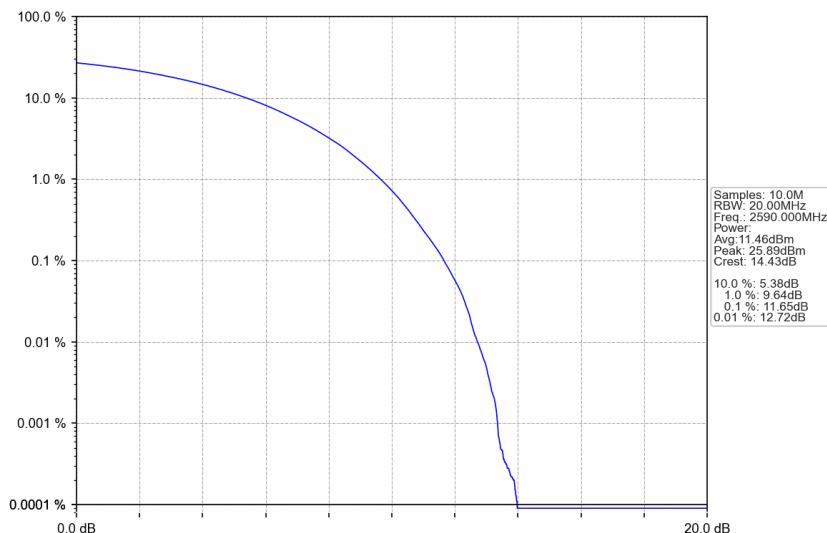
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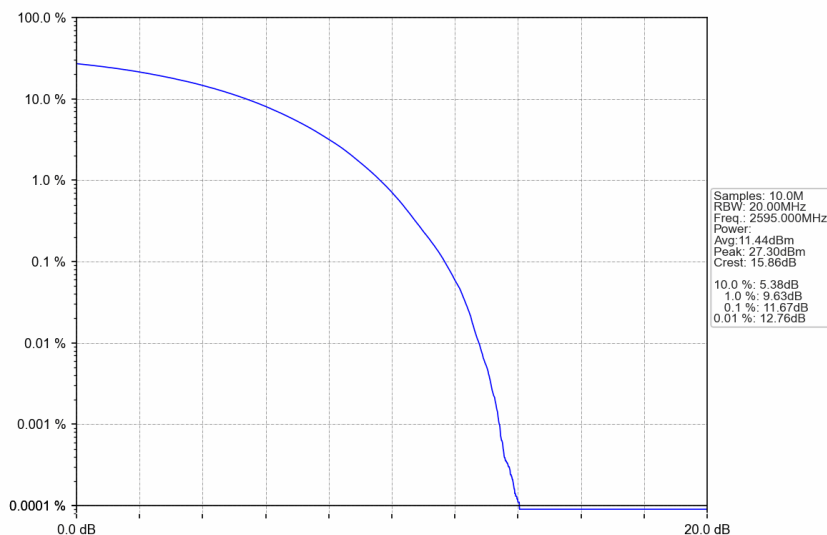
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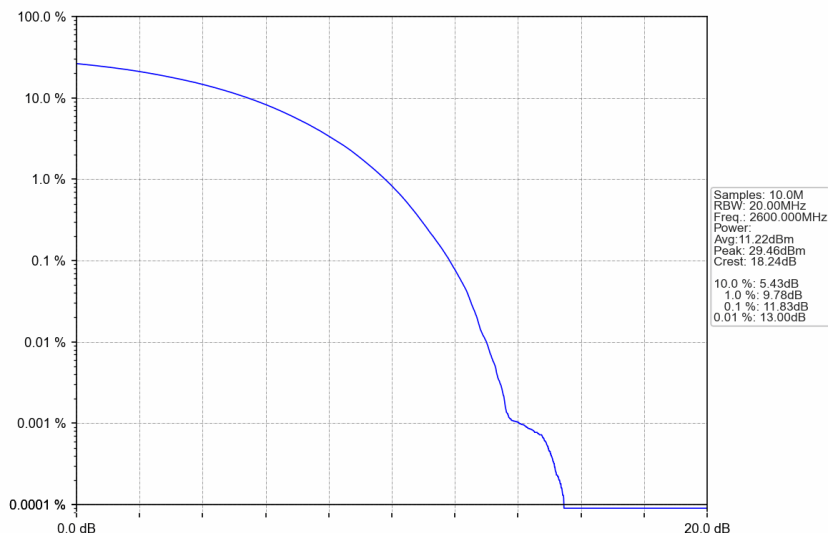
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 Rev.: 01
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6. Spurious Emission & Band Edges

6.1 15k_SISO_5MHz_NTNV

6.1.1 Test Result

5G NR n38 SCS=15kHz SISO 5MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant2	Sum	
DFT-s-OFDM PI/2 BPSK	2572.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	2617.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
DFT-s-OFDM QPSK	2572.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	2617.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
CP-OFDM QPSK	2572.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	2617.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Right	Refer To Test Graph			Pass

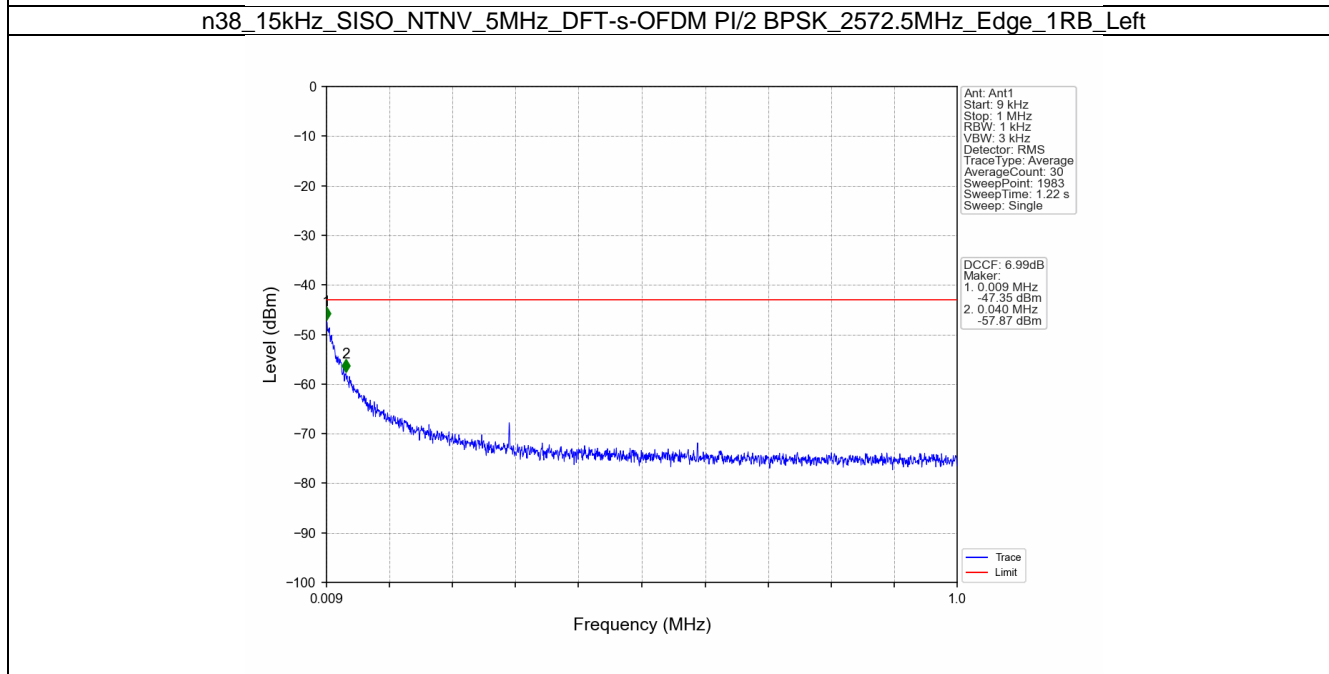
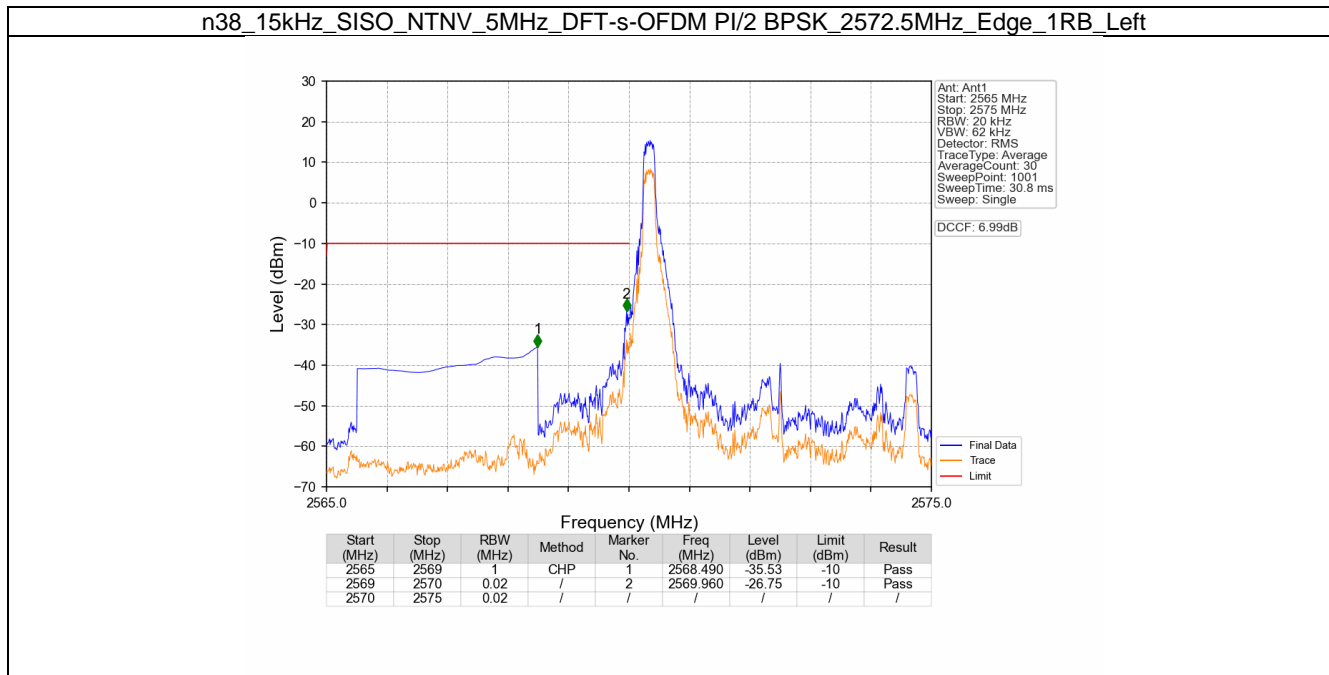


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6.1.2 Test Graph

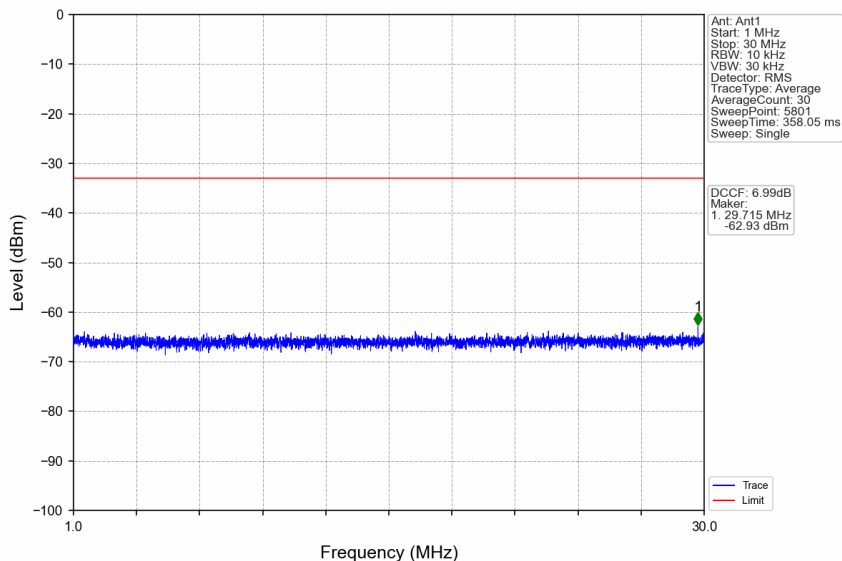


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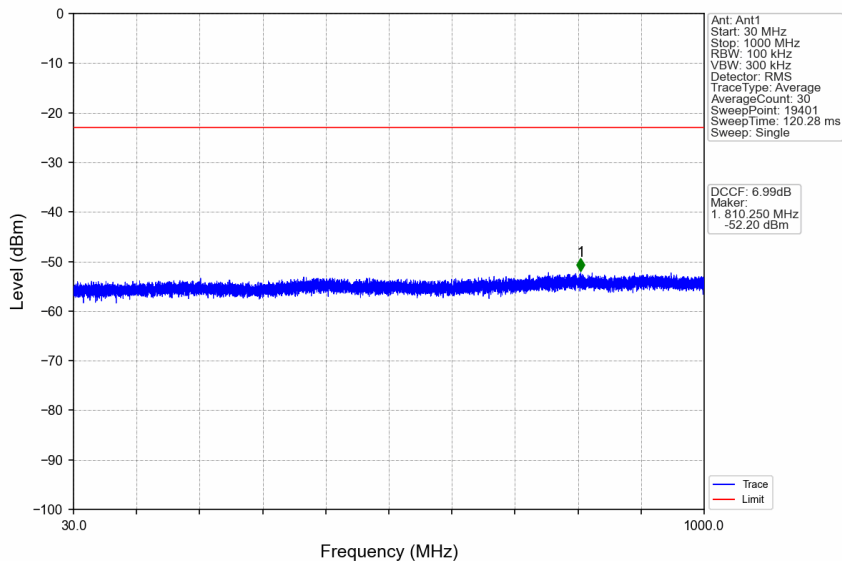
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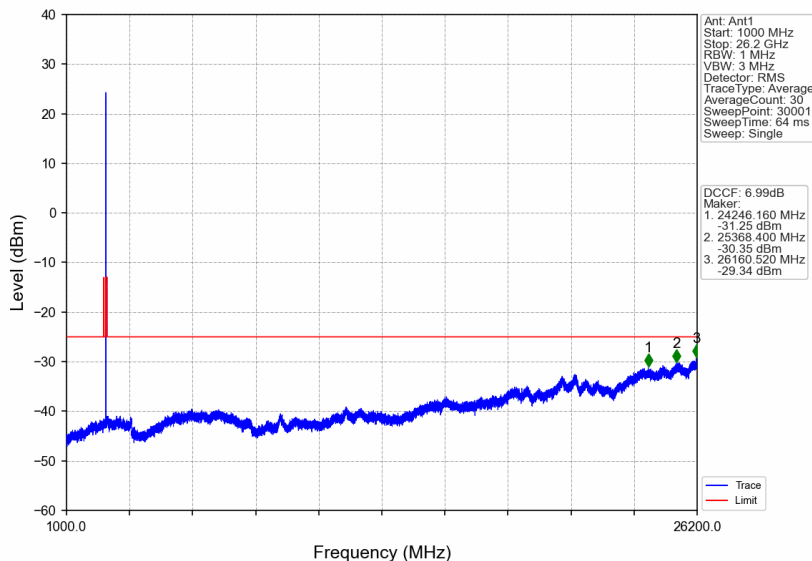


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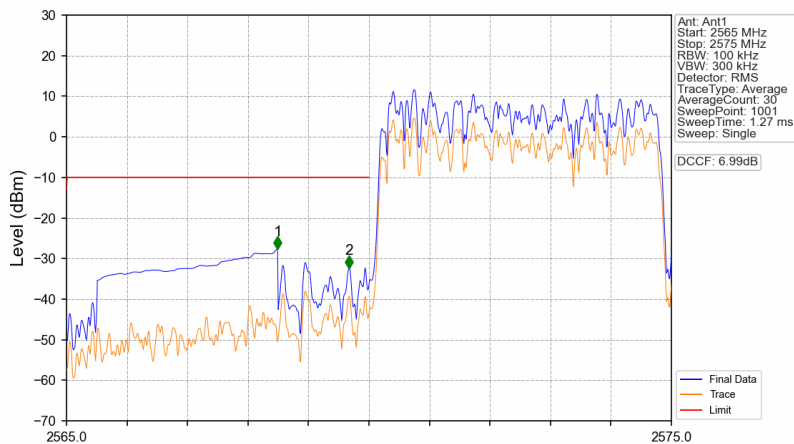
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2572.5MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2565	2569	1	CHP	1	2568.490	-27.63	-10	Pass
2569	2570	0.1	/	2	2569.670	-32.34	-10	Pass
2570	2575	0.1	/	/	/	/	/	/

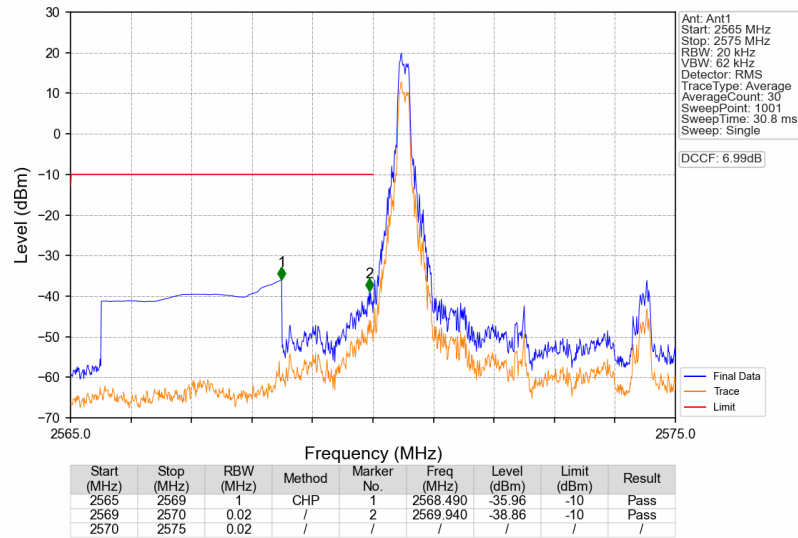


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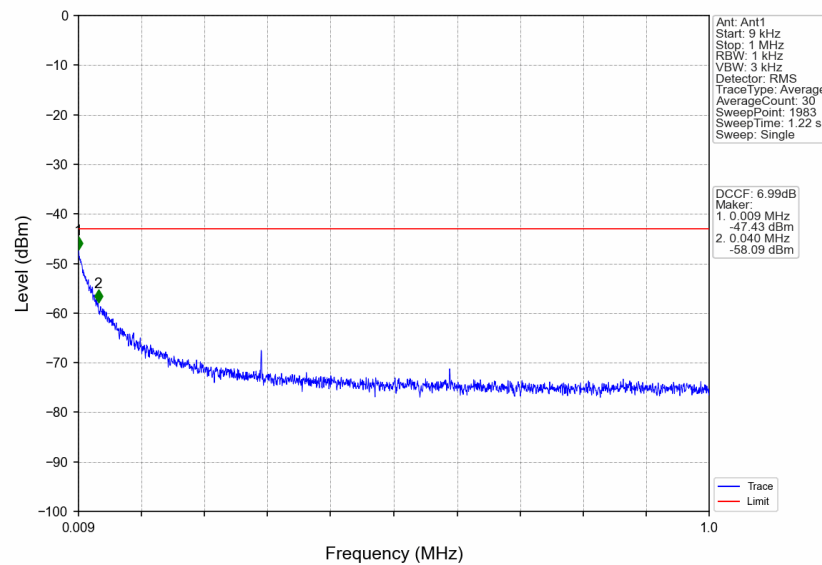
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2572.5MHz_Inner_1RB_Left



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Edge_1RB_Left

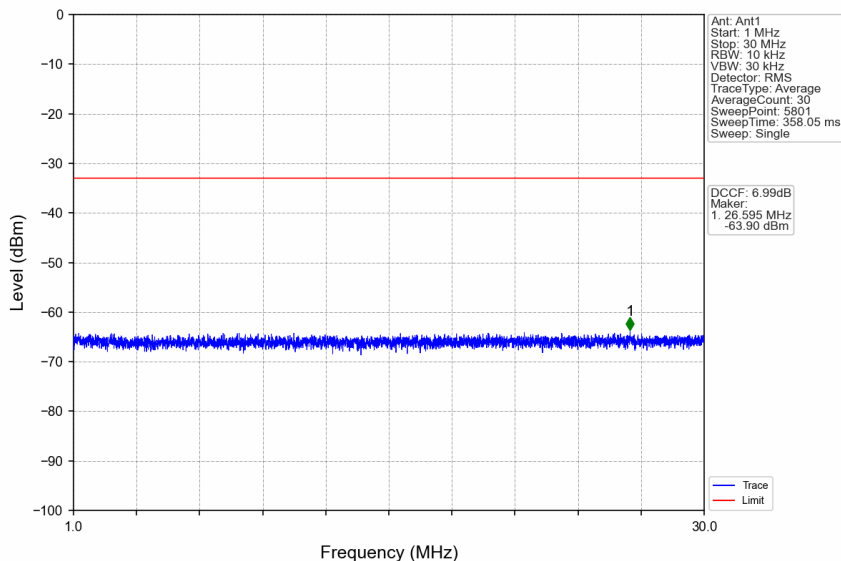


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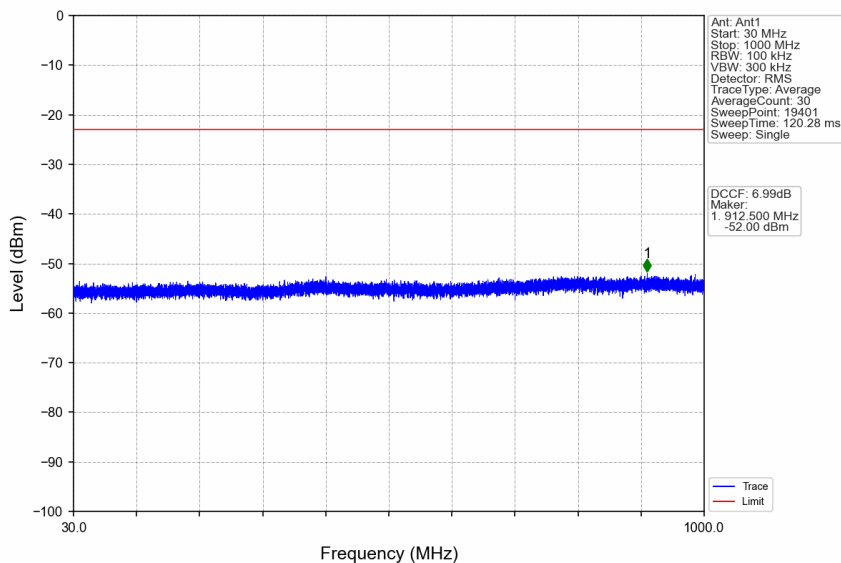
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Edge_1RB_Left



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Edge_1RB_Left

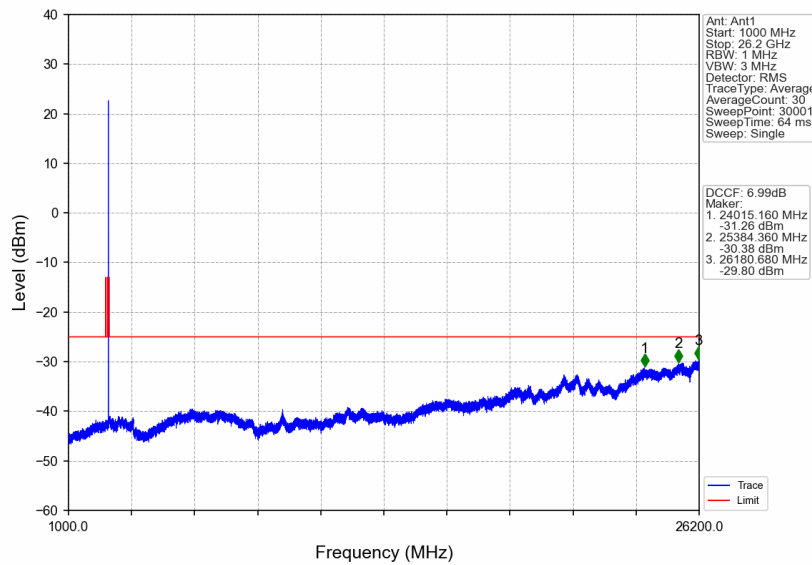


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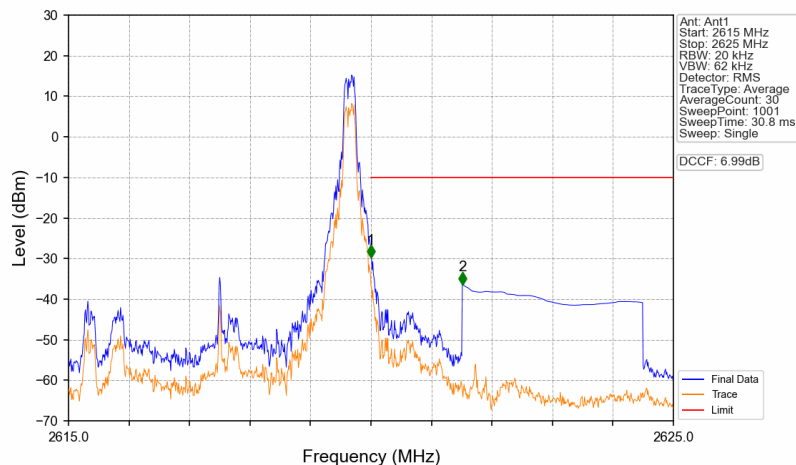
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Edge_1RB_Left



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2617.5MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2615	2620	0.02	/	/	/	/	/	/
2620	2621	0.02	/	1	2620.000	-29.77	-10	Pass
2621	2625	1	CHP	2	2621.510	-36.43	-10	Pass

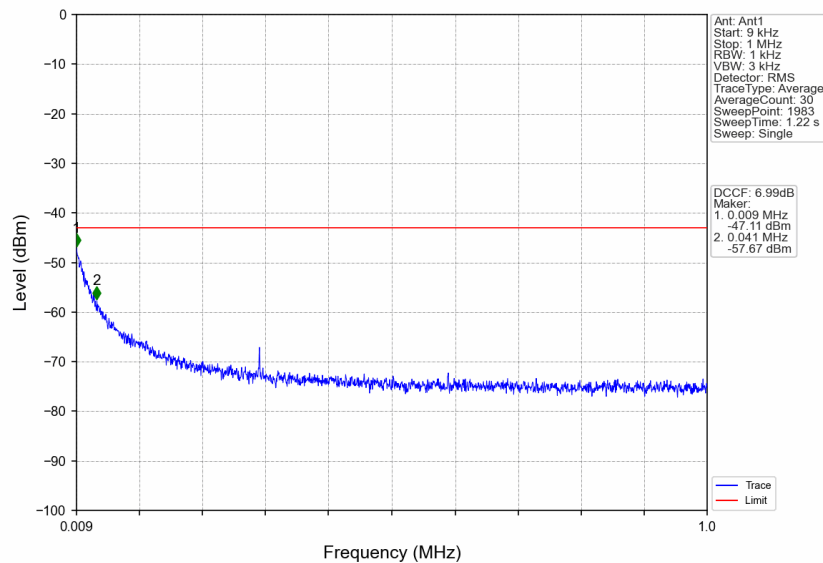


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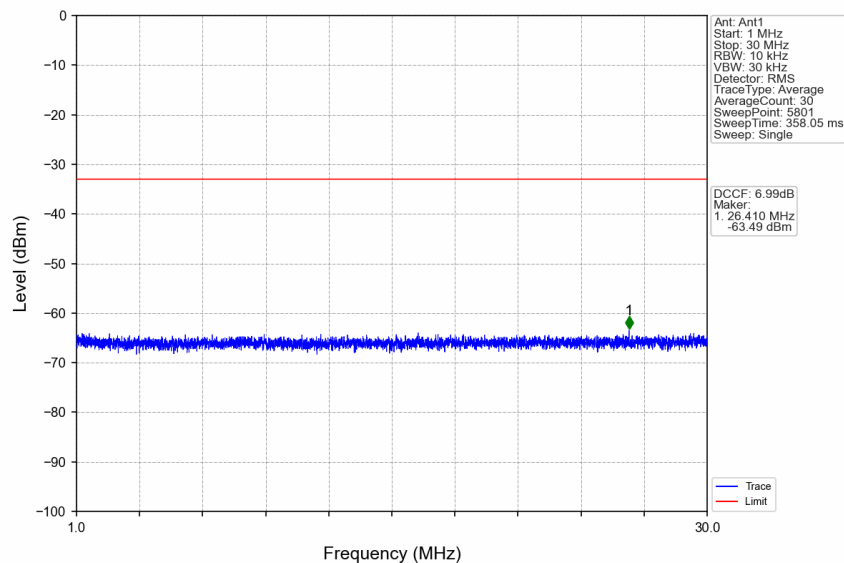
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2617.5MHz_Edge_1RB_Right

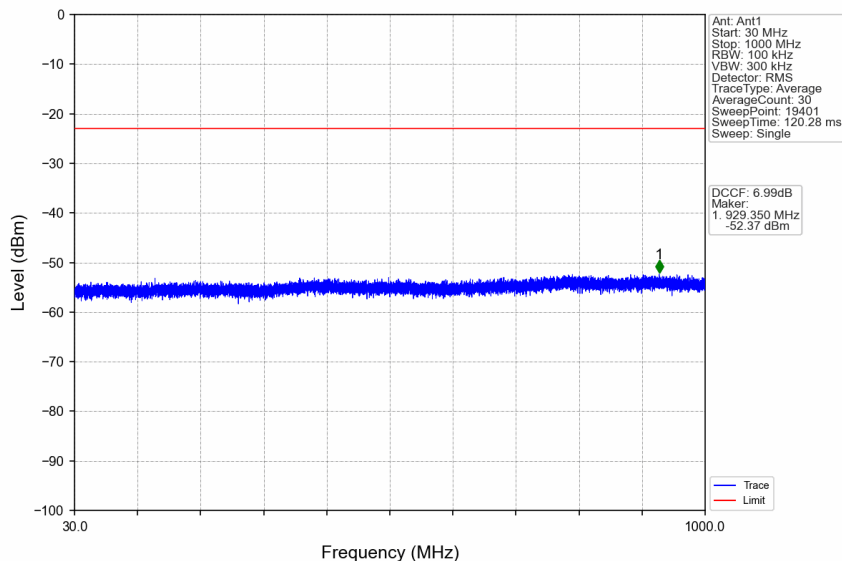


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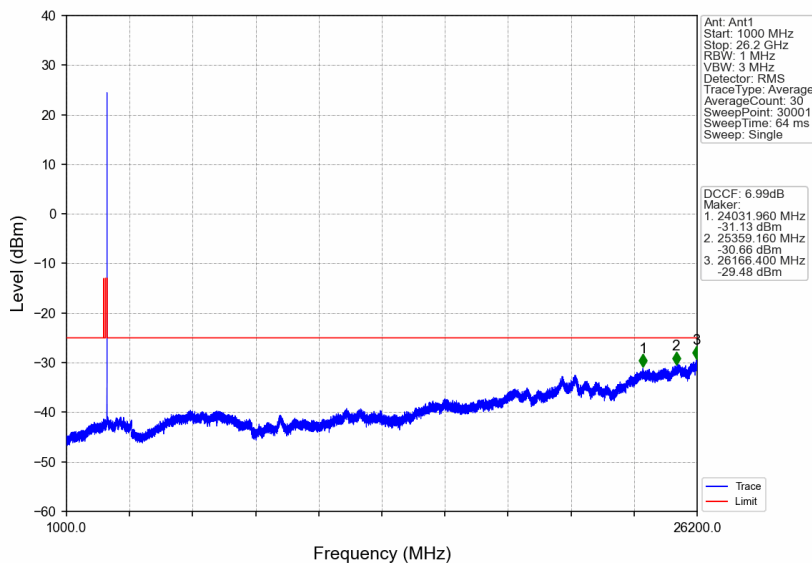
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2617.5MHz_Edge_1RB_Right



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2617.5MHz_Edge_1RB_Right

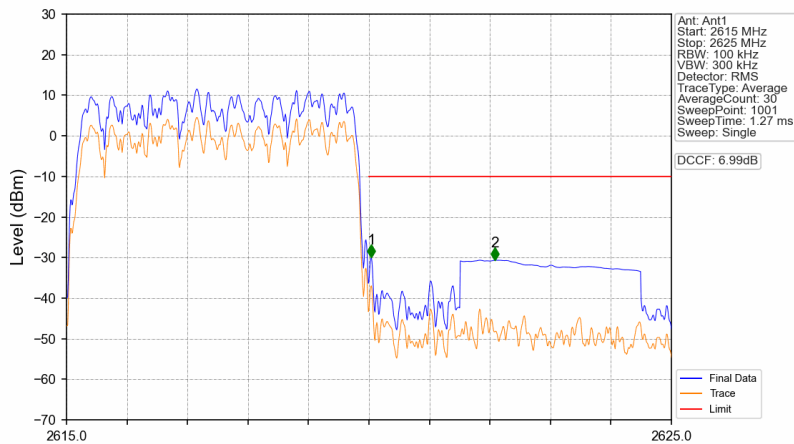


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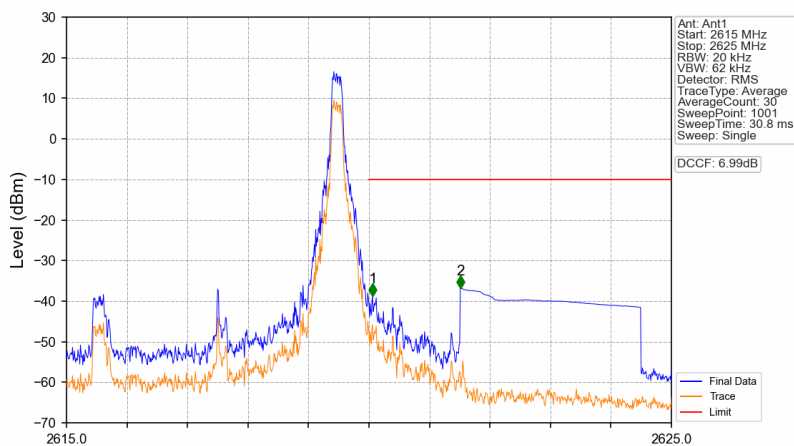
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2617.5MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2615	2620	0.1	/	/	/	/	/	/
2620	2621	0.1	/	1	2620.040	-29.97	-10	Pass
2621	2625	1	CHP	2	2622.080	-30.64	-10	Pass

n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2617.5MHz_Inner_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2615	2620	0.02	/	/	/	/	/	/
2620	2621	0.02	/	1	2620.060	-38.82	-10	Pass
2621	2625	1	CHP	2	2621.510	-36.81	-10	Pass

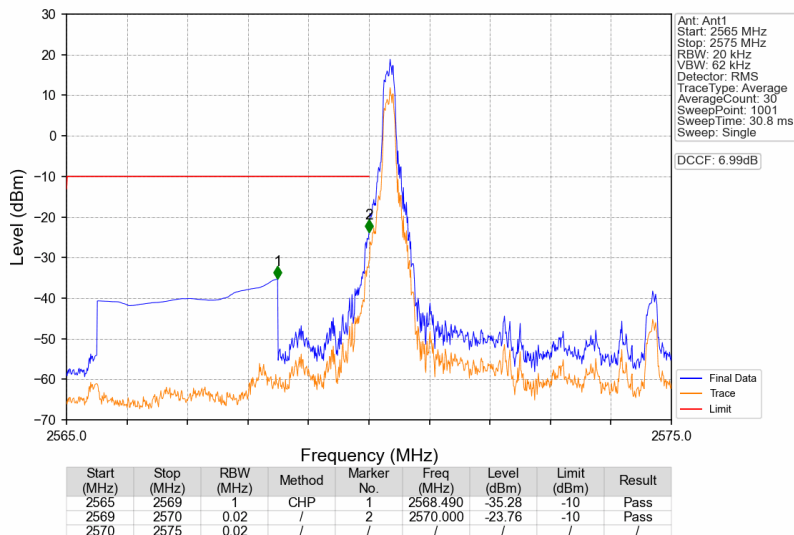


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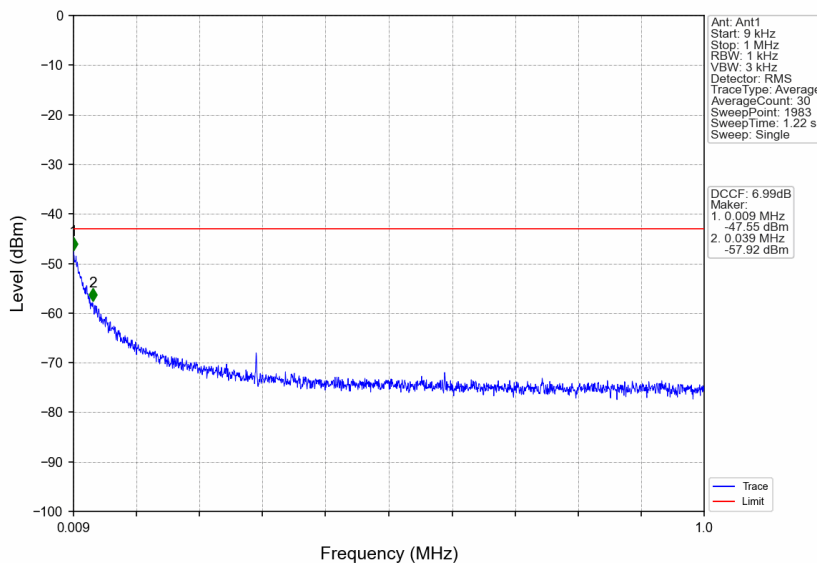
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2572.5MHz_Edge_1RB_Left

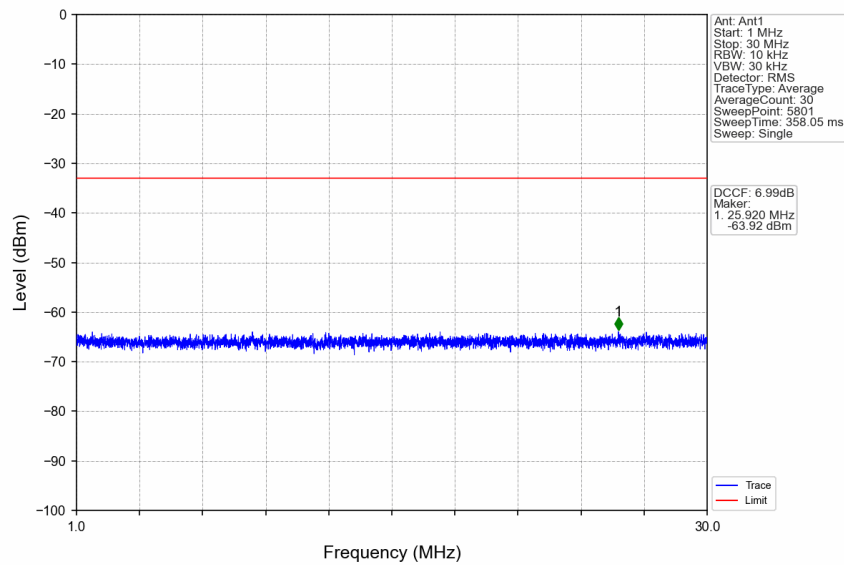


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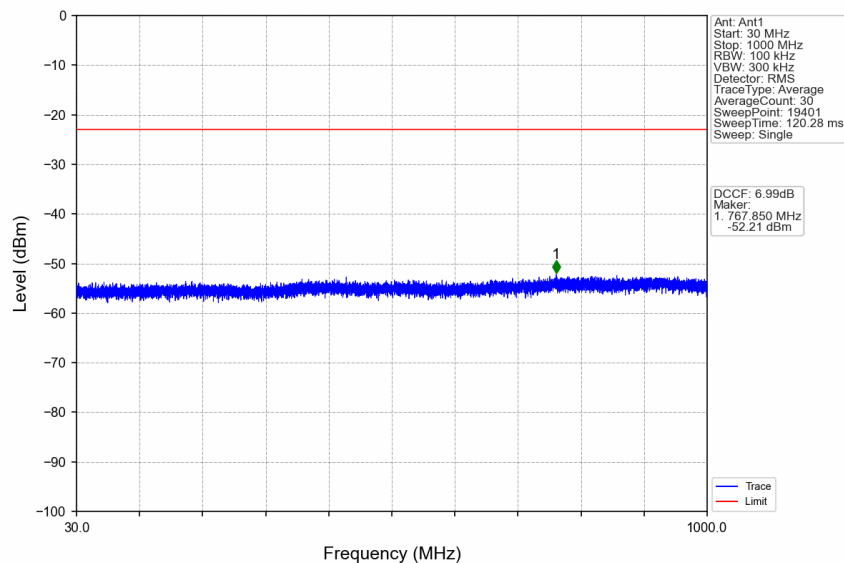
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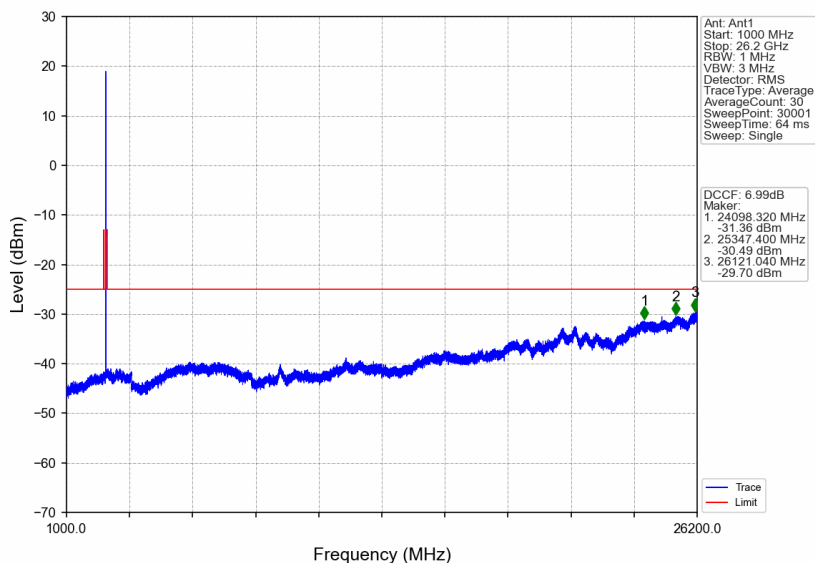


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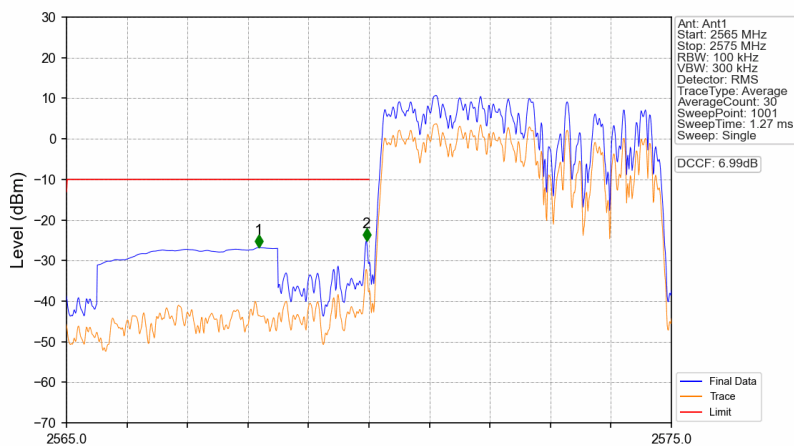
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2572.5MHz_Edge_1RB_Left



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2572.5MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2565	2569	1	CHP	1	2568.180	-26.80	-10	Pass
2569	2570	0.1	/	2	2569.960	-25.19	-10	Pass
2570	2575	0.1	/	/	/	/	/	/

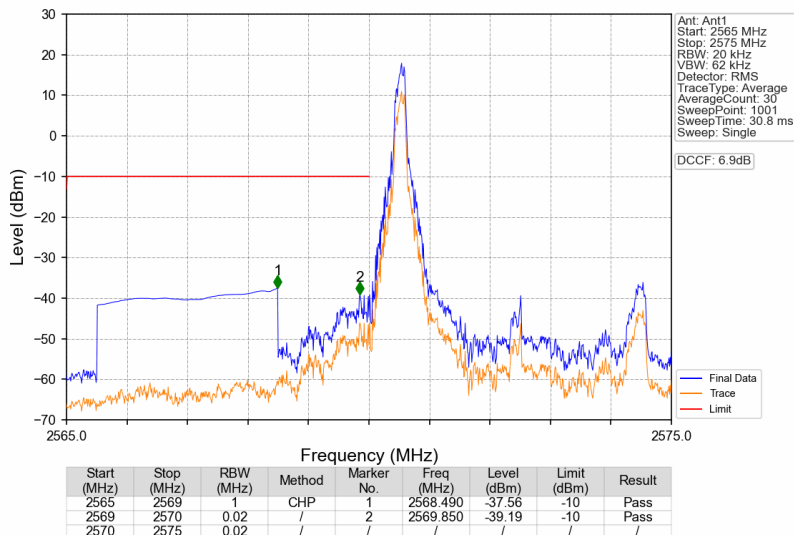


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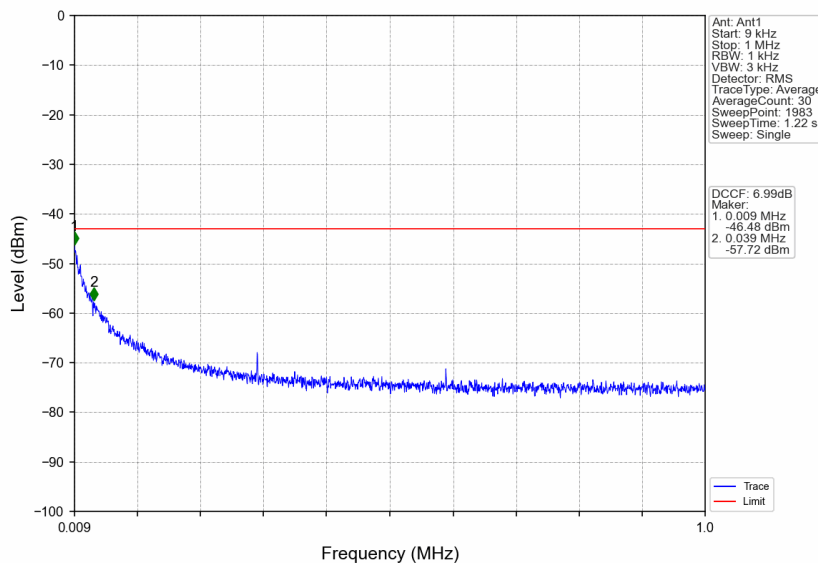
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2595MHz_Edge_1RB_Left

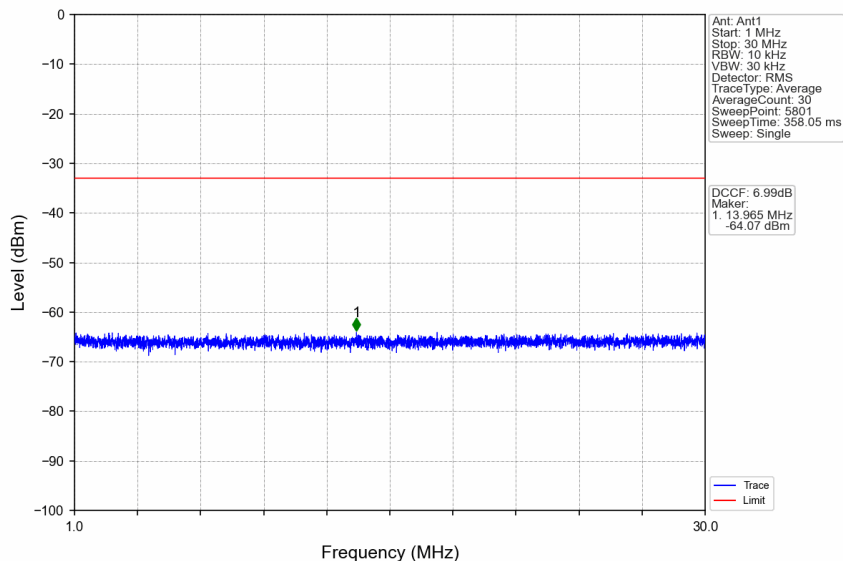


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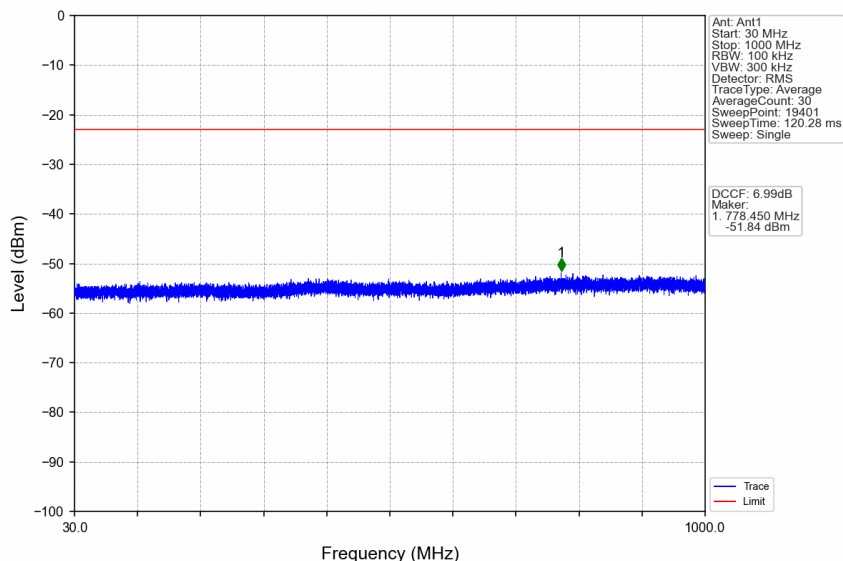
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2595MHz_Edge_1RB_Left



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2595MHz_Edge_1RB_Left

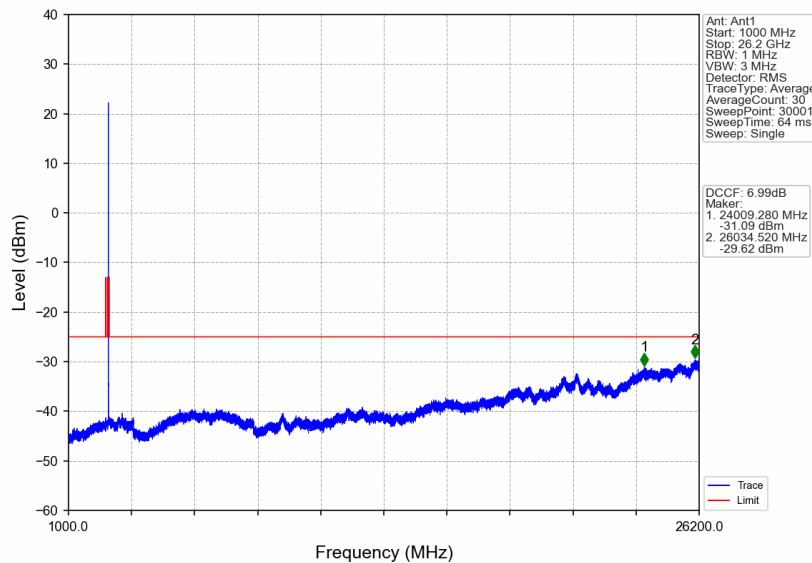


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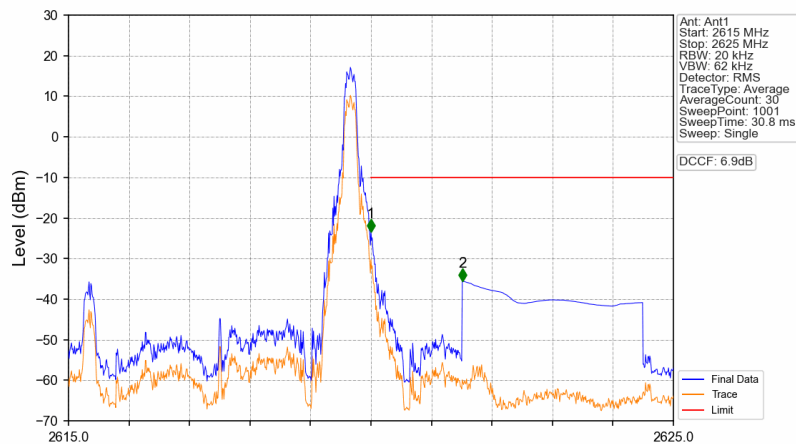
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2595MHz_Edge_1RB_Left



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2617.5MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2615	2620	0.02	/	/	/	/	/	/
2620	2621	0.02	/	1	2620.000	-23.38	-10	Pass
2621	2625	1	CHP	2	2621.510	-35.55	-10	Pass



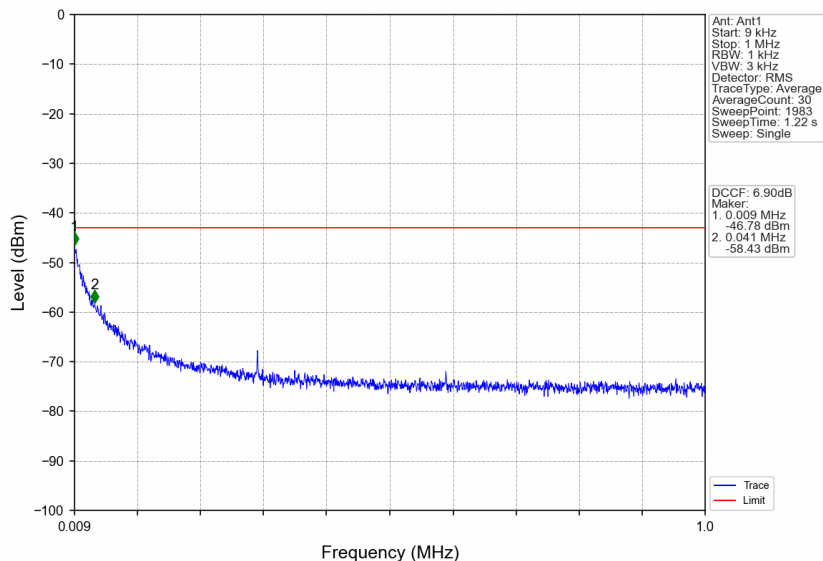
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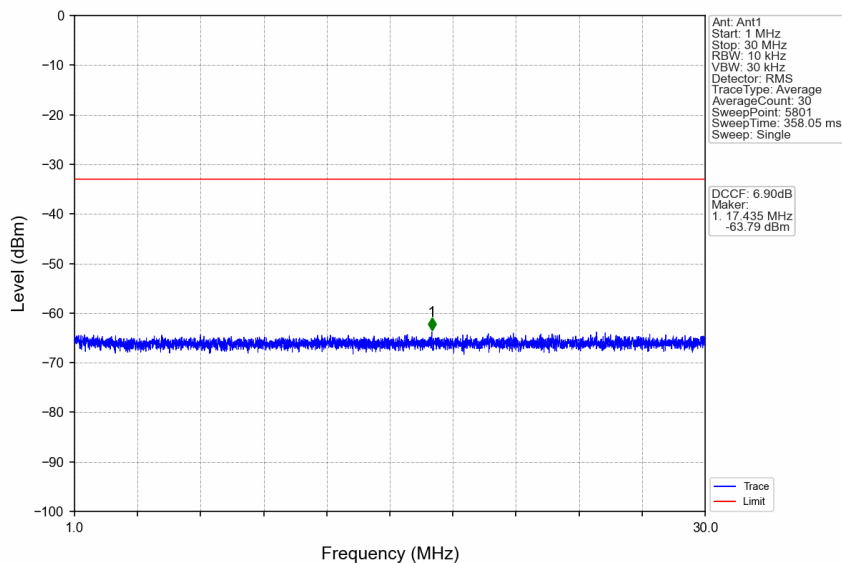
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2617.5MHz_Edge_1RB_Right



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2617.5MHz_Edge_1RB_Right



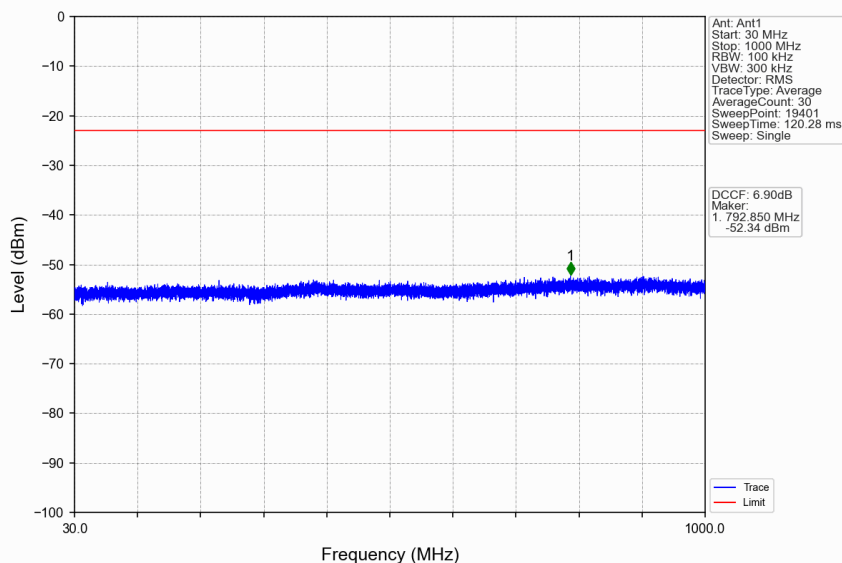
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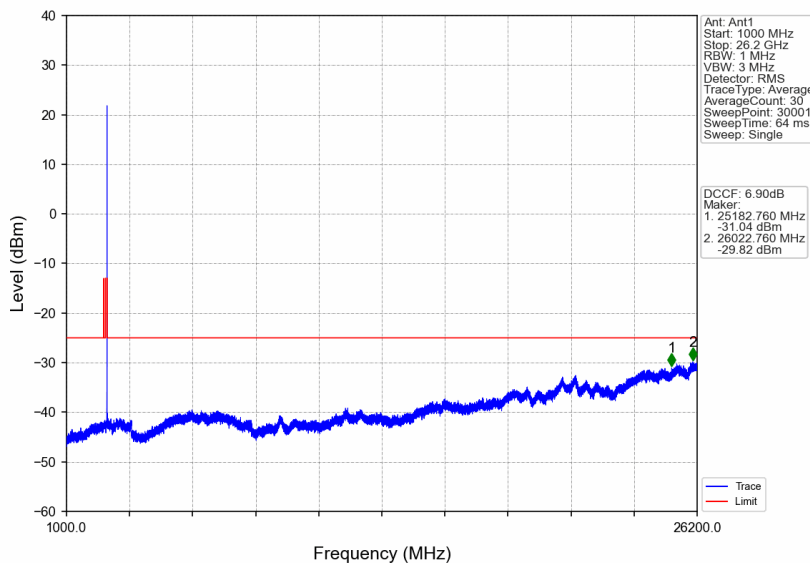
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Wireless Laboratory

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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2617.5MHz_Edge_1RB_Right



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2617.5MHz_Edge_1RB_Right

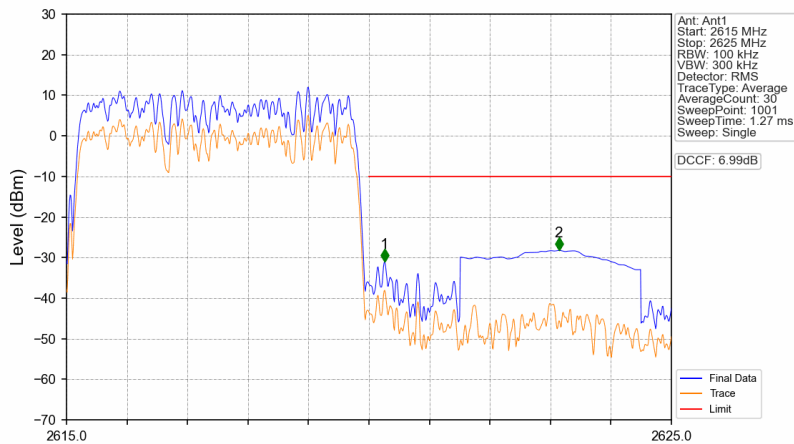


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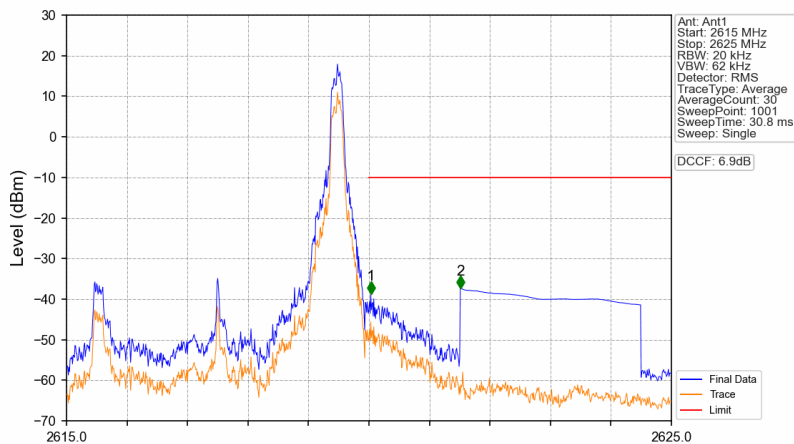
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2617.5MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2615	2620	0.1	/	/	/	/	/	/
2620	2621	0.1	/	1	2620.260	-31.09	-10	Pass
2621	2625	1	CHP	2	2623.140	-28.27	-10	Pass

n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2617.5MHz_Inner_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2615	2620	0.02	/	/	/	/	/	/
2620	2621	0.02	/	1	2620.030	-38.72	-10	Pass
2621	2625	1	CHP	2	2621.510	-37.36	-10	Pass



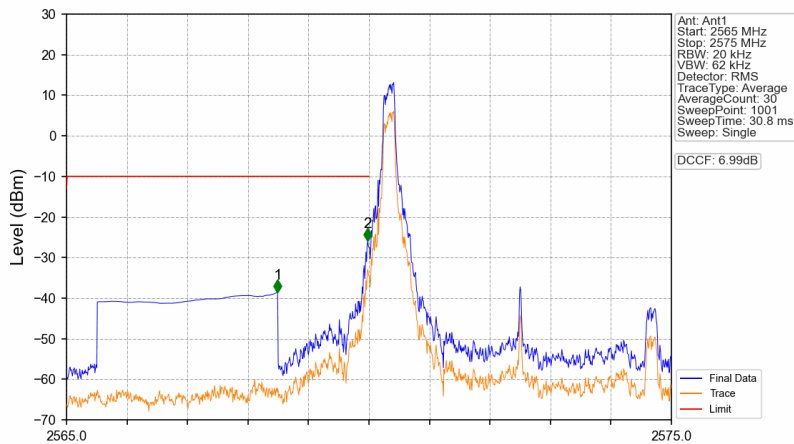
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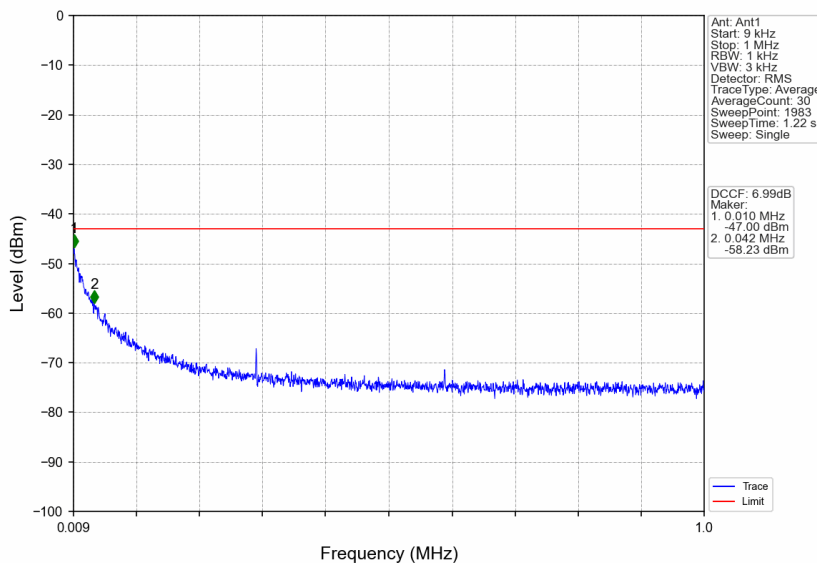
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2572.5MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2565	2569	1	CHP	1	2568.490	-38.55	-10	Pass
2569	2570	0.02	/	2	2569.980	-25.89	-10	Pass
2570	2575	0.02	/	/	/	/	/	/

n38_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2572.5MHz_Edge_1RB_Left



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