



BUREAU
VERITAS

Test Report No.: PSU-NQN2504150110RF05

NR: CP-OFDM QPSK		CC2:829	NR: Outer_Full				
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	9.34	10.36	/	Pass
		CC1:1745 CC2:844	LTE: 1RB_Left NR: Outer_Full	9.31	10.20	/	Pass
LTE: QPSK NR: CP-OFDM 16 QAM	/	CC1:1745 CC2:829	LTE: 1RB_Left NR: Outer_Full	9.31	10.23	/	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	9.32	10.17	/	Pass
		CC1:1745 CC2:844	LTE: 1RB_Left NR: Outer_Full	9.33	10.25	/	Pass
LTE: QPSK NR: CP-OFDM 64 QAM	/	CC1:1745 CC2:829	LTE: 1RB_Left NR: Outer_Full	9.30	10.20	/	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	9.33	10.25	/	Pass
		CC1:1745 CC2:844	LTE: 1RB_Left NR: Outer_Full	9.31	10.17	/	Pass
LTE: QPSK NR: CP-OFDM 256 QAM	/	CC1:1745 CC2:829	LTE: 1RB_Left NR: Outer_Full	9.35	10.24	/	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	9.36	10.29	/	Pass
		CC1:1745 CC2:844	LTE: 1RB_Left NR: Outer_Full	9.37	10.14	/	Pass

2.1.3 15k_SISO_15MHz_NTNV

5G NR DC_66A_n5A SCS=15kHz SISO 15MHz NTN CC1:66 CC2:n5							
Modulation	BW Combo Set	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
LTE: QPSK NR: DFT-s-OFDM PI/2 BPSK	/	CC1:1745 CC2:831.5	LTE: 1RB_Left NR: Outer_Full	13.53	14.55	/	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	13.52	14.62	/	Pass
		CC1:1745 CC2:841.5	LTE: 1RB_Left NR: Outer_Full	13.50	14.63	/	Pass
LTE: QPSK NR: DFT-s-OFDM QPSK	/	CC1:1745 CC2:831.5	LTE: 1RB_Left NR: Outer_Full	13.52	14.53	/	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	13.53	14.48	/	Pass
		CC1:1745 CC2:841.5	LTE: 1RB_Left NR: Outer_Full	13.49	14.51	/	Pass
LTE: QPSK NR: DFT-s-OFDM 16 QAM	/	CC1:1745 CC2:831.5	LTE: 1RB_Left NR: Outer_Full	13.53	14.49	/	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	13.53	14.61	/	Pass
		CC1:1745 CC2:841.5	LTE: 1RB_Left NR: Outer_Full	13.49	14.55	/	Pass
LTE: QPSK NR: DFT-s-OFDM 64 QAM	/	CC1:1745 CC2:831.5	LTE: 1RB_Left NR: Outer_Full	13.47	14.53	/	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	13.50	14.61	/	Pass
		CC1:1745 CC2:841.5	LTE: 1RB_Left NR: Outer_Full	13.46	14.48	/	Pass
LTE: QPSK NR: DFT-s-OFDM 256 QAM	/	CC1:1745 CC2:831.5	LTE: 1RB_Left NR: Outer_Full	13.54	14.47	/	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	13.52	14.54	/	Pass
		CC1:1745 CC2:841.5	LTE: 1RB_Left NR: Outer_Full	13.48	14.52	/	Pass



LTE: QPSK NR: CP-OFDM QPSK	/	CC1:1745	LTE: 1RB_Left	14.20	15.31	/	Pass
		CC2:831.5	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	14.18	15.38	/	Pass
LTE: QPSK NR: CP-OFDM 16 QAM	/	CC2:836.5	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	14.14	15.15	/	Pass
		CC2:841.5	NR: Outer_Full				
LTE: QPSK NR: CP-OFDM 64 QAM	/	CC1:1745	LTE: 1RB_Left	14.20	15.27	/	Pass
		CC2:831.5	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	14.19	15.35	/	Pass
LTE: QPSK NR: CP-OFDM 256 QAM	/	CC2:836.5	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	14.16	15.26	/	Pass
		CC2:841.5	NR: Outer_Full				
LTE: QPSK NR: CP-OFDM 64 QAM	/	CC1:1745	LTE: 1RB_Left	14.23	15.27	/	Pass
		CC2:831.5	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	14.21	15.33	/	Pass
LTE: QPSK NR: CP-OFDM 256 QAM	/	CC2:836.5	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	14.20	15.28	/	Pass
		CC2:841.5	NR: Outer_Full				
LTE: QPSK NR: CP-OFDM 256 QAM	/	CC1:1745	LTE: 1RB_Left	14.18	15.14	/	Pass
		CC2:831.5	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	14.17	15.22	/	Pass
LTE: QPSK NR: CP-OFDM 256 QAM	/	CC2:836.5	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	14.12	15.19	/	Pass
		CC2:841.5	NR: Outer_Full				

2.1.4 15k_SISO_20MHz_NTNV

5G NR DC_66A_n5A SCS=15kHz SISO 20MHz NTN CC1:66 CC2:n5							
Modulation	BW Combo Set	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
LTE: QPSK NR: DFT-s-OFDM PI/2 BPSK	/	CC1:1745	LTE: 1RB_Left	18.02	19.27	/	Pass
		CC2:834	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	18.00	19.32	/	Pass
LTE: QPSK NR: DFT-s-OFDM QPSK	/	CC2:836.5	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	17.97	19.26	/	Pass
		CC2:839	NR: Outer_Full				
LTE: QPSK NR: DFT-s-OFDM QPSK	/	CC1:1745	LTE: 1RB_Left	18.06	19.41	/	Pass
		CC2:834	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	18.04	19.26	/	Pass
LTE: QPSK NR: DFT-s-OFDM 16 QAM	/	CC2:836.5	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	18.00	19.34	/	Pass
		CC2:839	NR: Outer_Full				
LTE: QPSK NR: DFT-s-OFDM 16 QAM	/	CC1:1745	LTE: 1RB_Left	18.09	19.42	/	Pass
		CC2:834	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	18.05	19.34	/	Pass
LTE: QPSK NR: DFT-s-OFDM 64 QAM	/	CC2:836.5	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	17.99	19.28	/	Pass
		CC2:839	NR: Outer_Full				
LTE: QPSK NR: DFT-s-OFDM 64 QAM	/	CC1:1745	LTE: 1RB_Left	18.04	19.43	/	Pass
		CC2:834	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	18.02	19.31	/	Pass
LTE: QPSK NR: DFT-s-OFDM 256 QAM	/	CC2:836.5	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	17.99	19.27	/	Pass
		CC2:839	NR: Outer_Full				
LTE: QPSK NR: DFT-s-OFDM 256 QAM	/	CC1:1745	LTE: 1RB_Left	18.03	19.23	/	Pass
		CC2:834	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	18.03	19.23	/	Pass
LTE: QPSK NR: DFT-s-OFDM 256 QAM	/	CC2:836.5	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	18.00	19.24	/	Pass
		CC2:839	NR: Outer_Full				



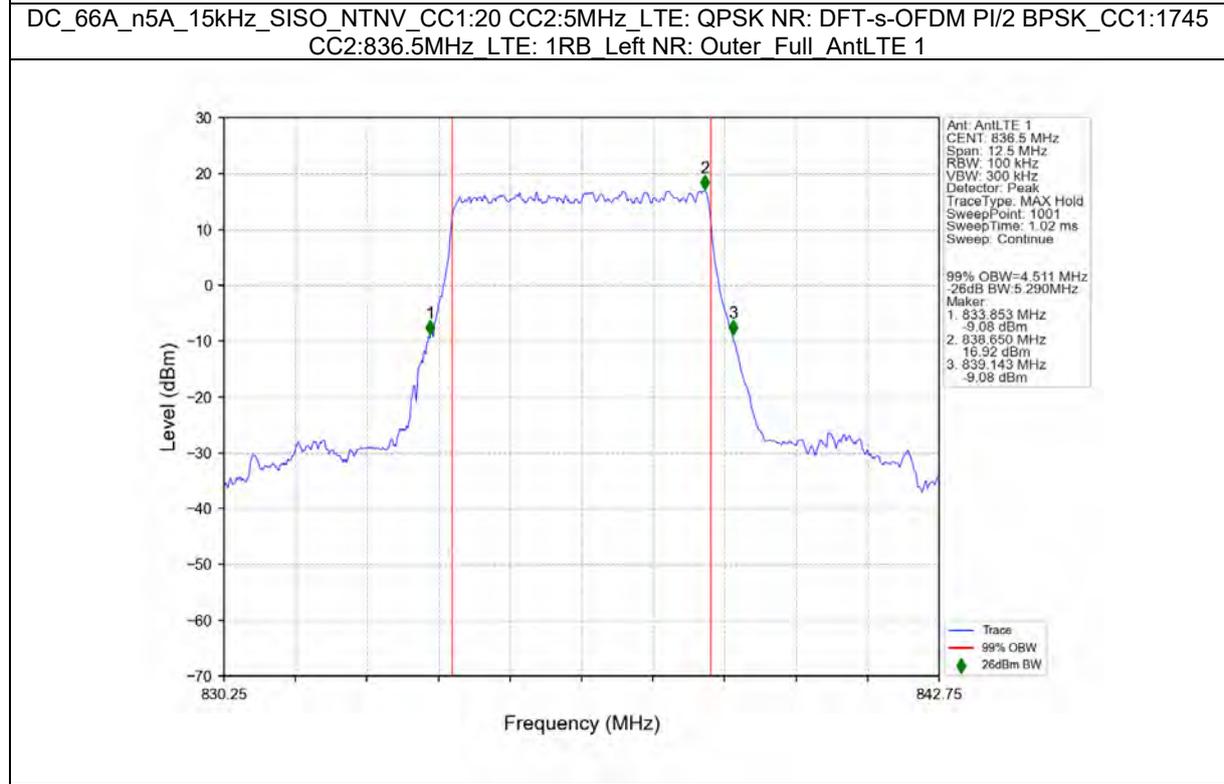
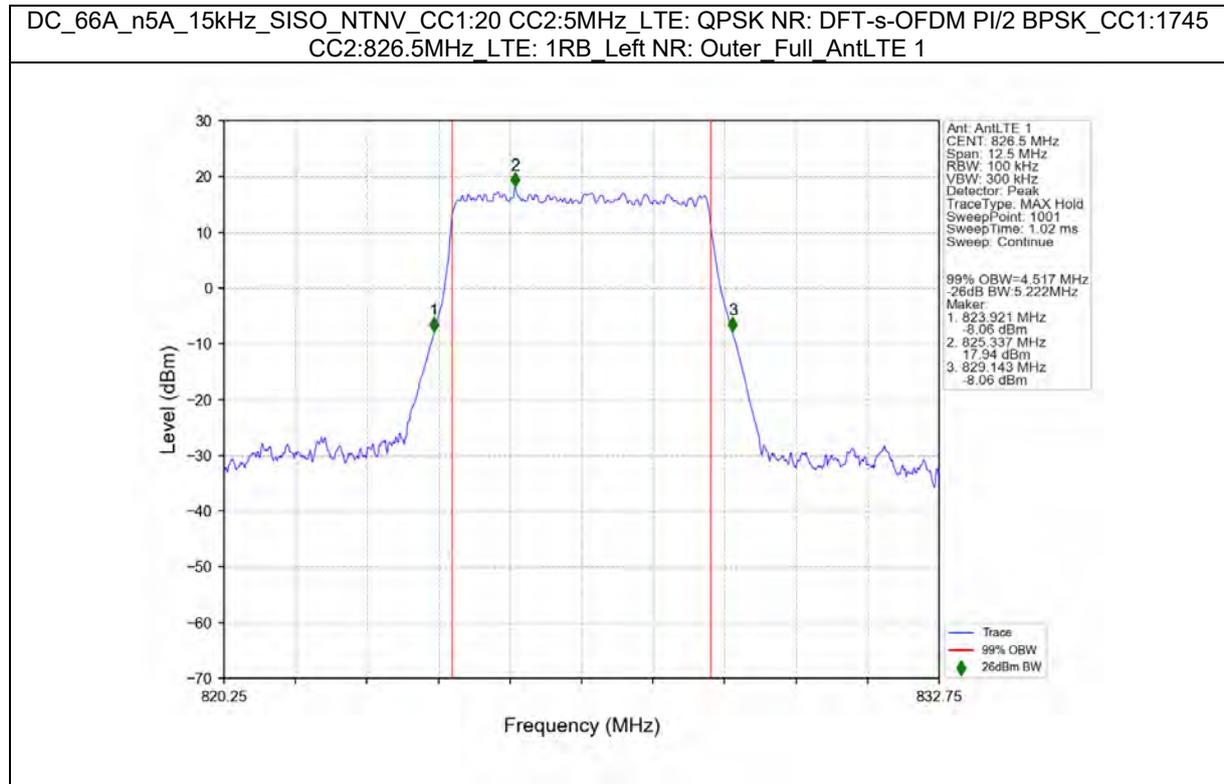
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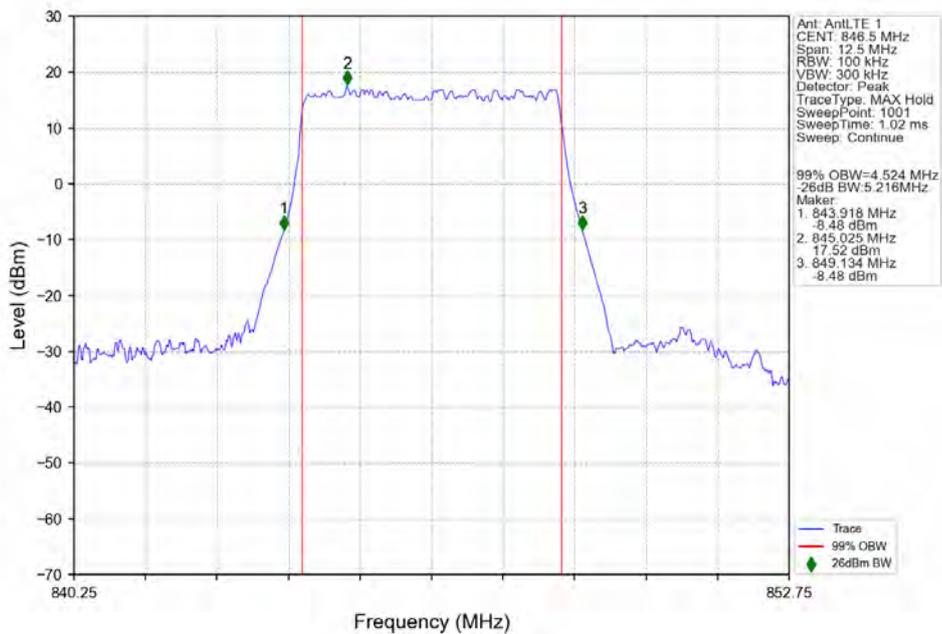
		CC2:839	NR: Outer_Full				
LTE: QPSK NR: CP-OFDM QPSK	/	CC1:1745	LTE: 1RB_Left	19.08	20.44	/	Pass
		CC2:834	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	19.04	20.45	/	Pass
CC2:836.5	NR: Outer_Full						
LTE: QPSK NR: CP-OFDM 16 QAM	/	CC1:1745	LTE: 1RB_Left	19.05	20.52	/	Pass
		CC2:834	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	19.05	20.55	/	Pass
CC2:836.5	NR: Outer_Full						
LTE: QPSK NR: CP-OFDM 64 QAM	/	CC1:1745	LTE: 1RB_Left	19.02	20.44	/	Pass
		CC2:839	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	19.11	20.45	/	Pass
CC2:834	NR: Outer_Full						
LTE: QPSK NR: CP-OFDM 256 QAM	/	CC1:1745	LTE: 1RB_Left	19.04	20.32	/	Pass
		CC2:836.5	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	19.06	20.32	/	Pass
CC2:839	NR: Outer_Full						
LTE: QPSK NR: CP-OFDM 256 QAM	/	CC1:1745	LTE: 1RB_Left	19.12	20.52	/	Pass
		CC2:834	NR: Outer_Full				
		CC1:1745	LTE: 1RB_Left	19.11	20.42	/	Pass
CC2:836.5	NR: Outer_Full						
		CC1:1745	LTE: 1RB_Left	19.14	20.36	/	Pass
		CC2:839	NR: Outer_Full				

2.2 Test Graph

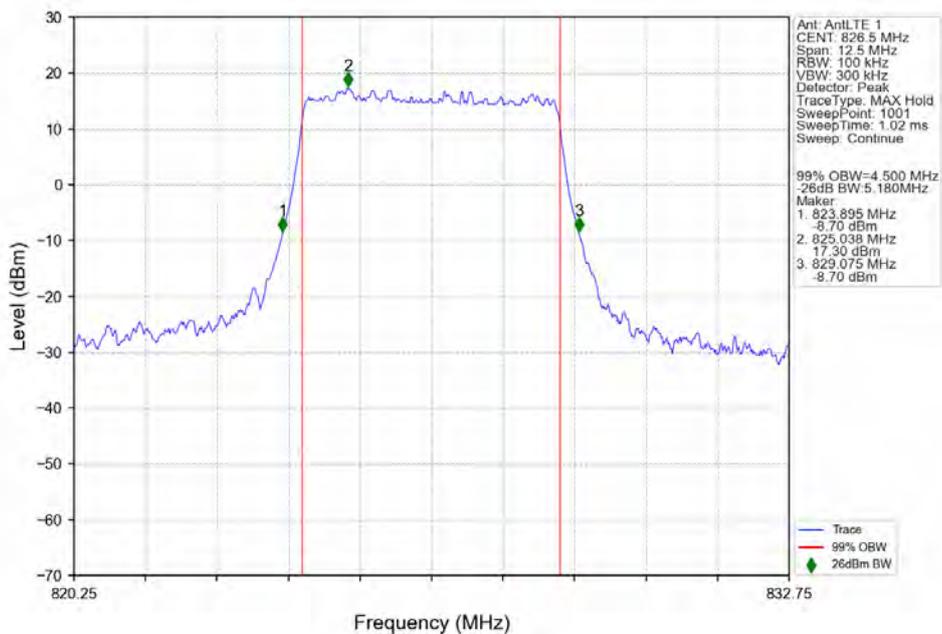
2.2.1 15k_SISO_5MHz_NTNV



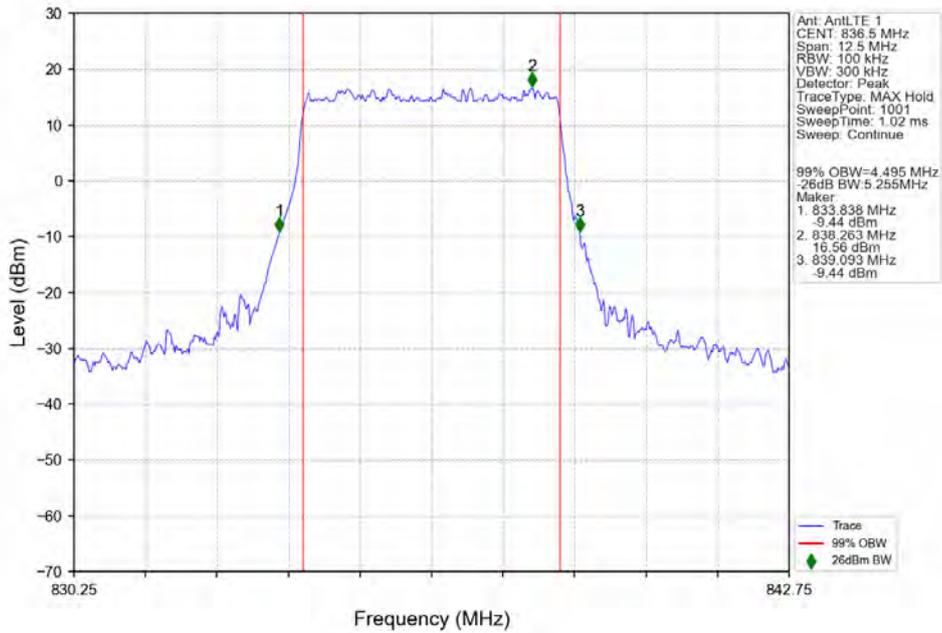
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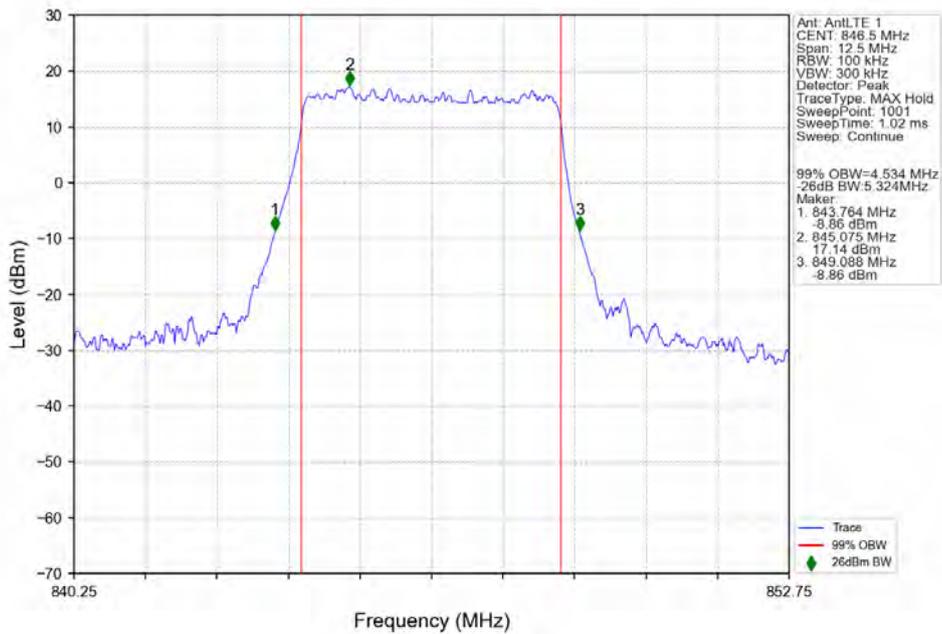
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CC2:826.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



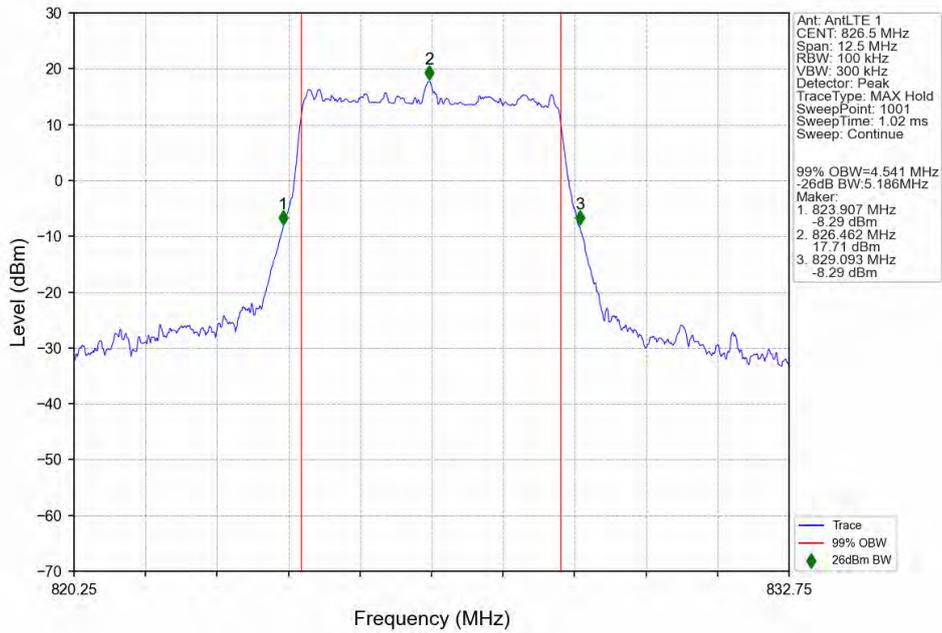
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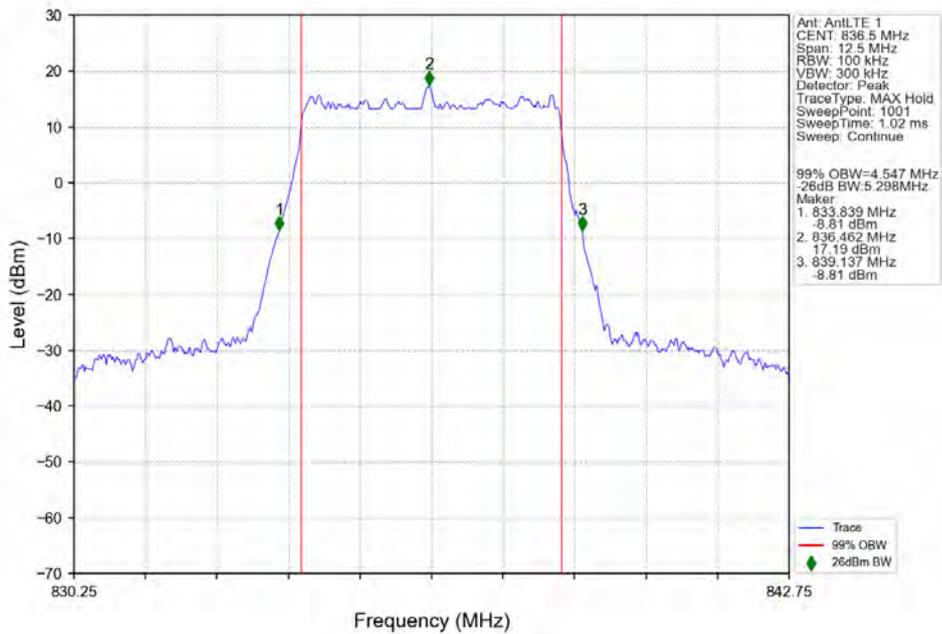
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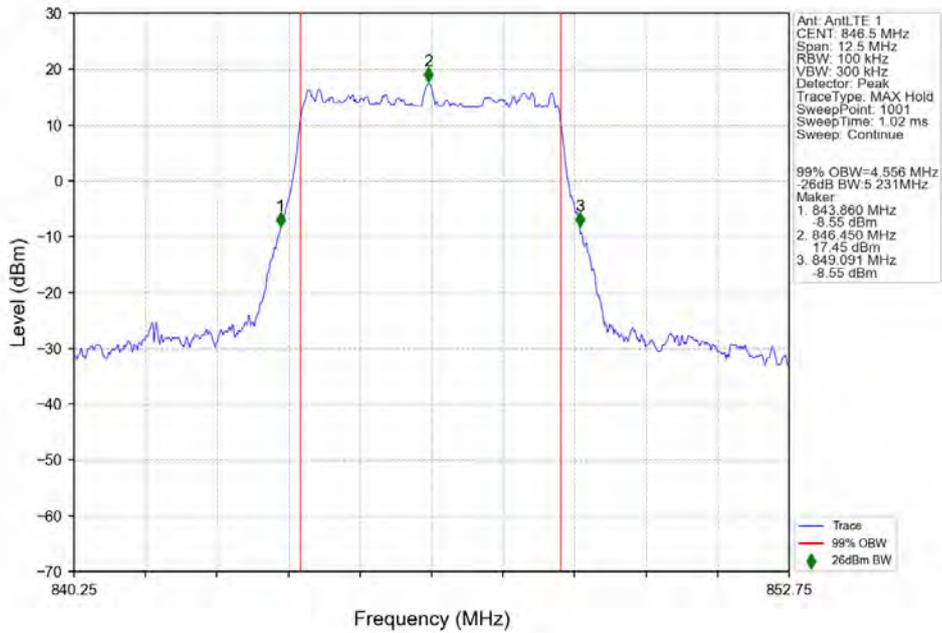
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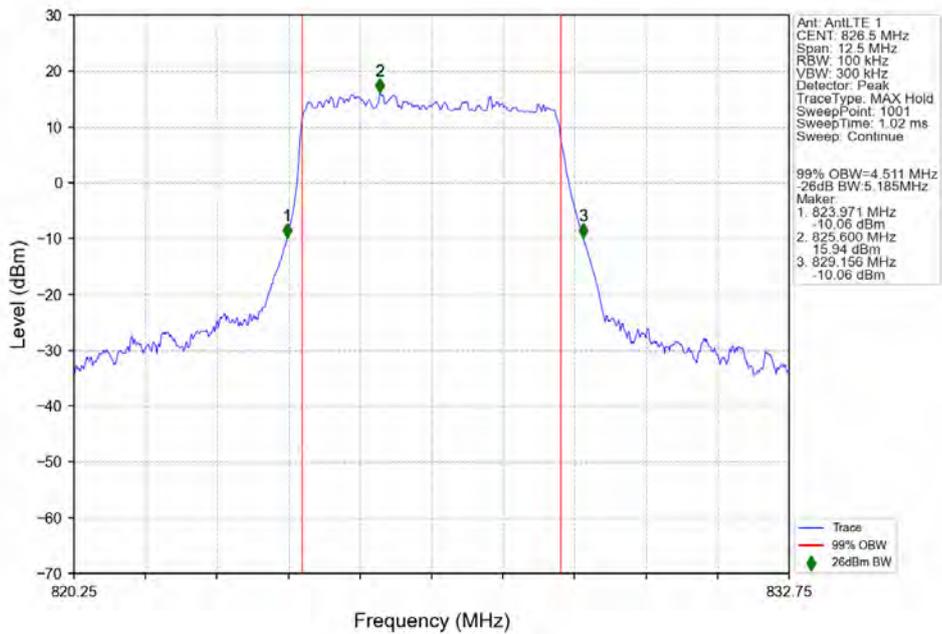
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CC2:836.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



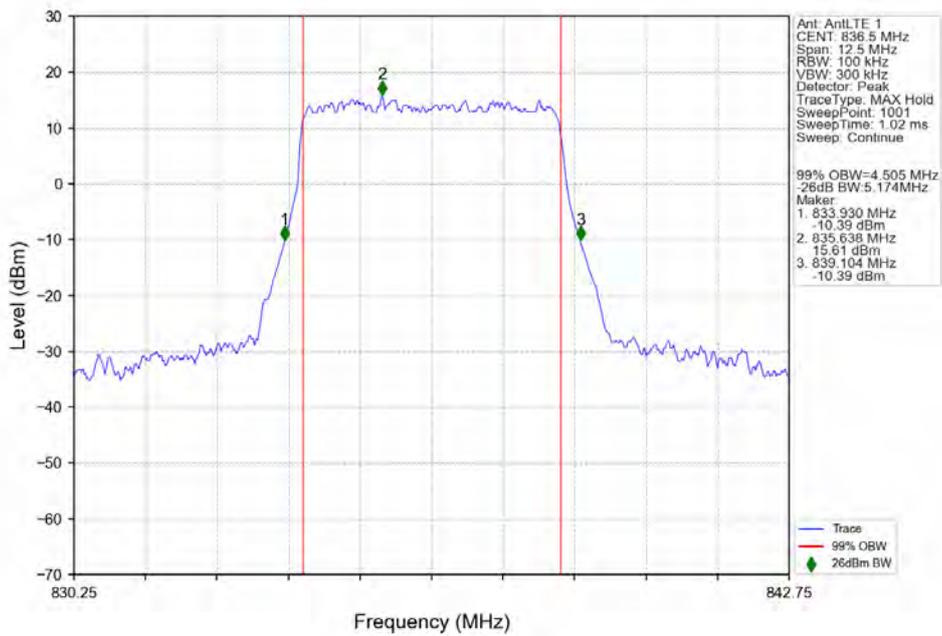
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CC2:846.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



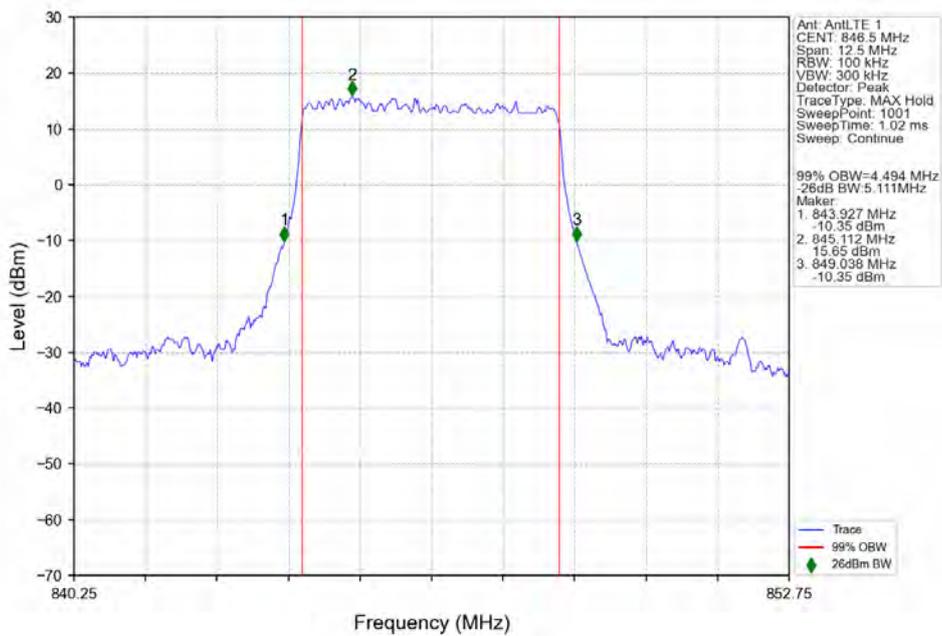
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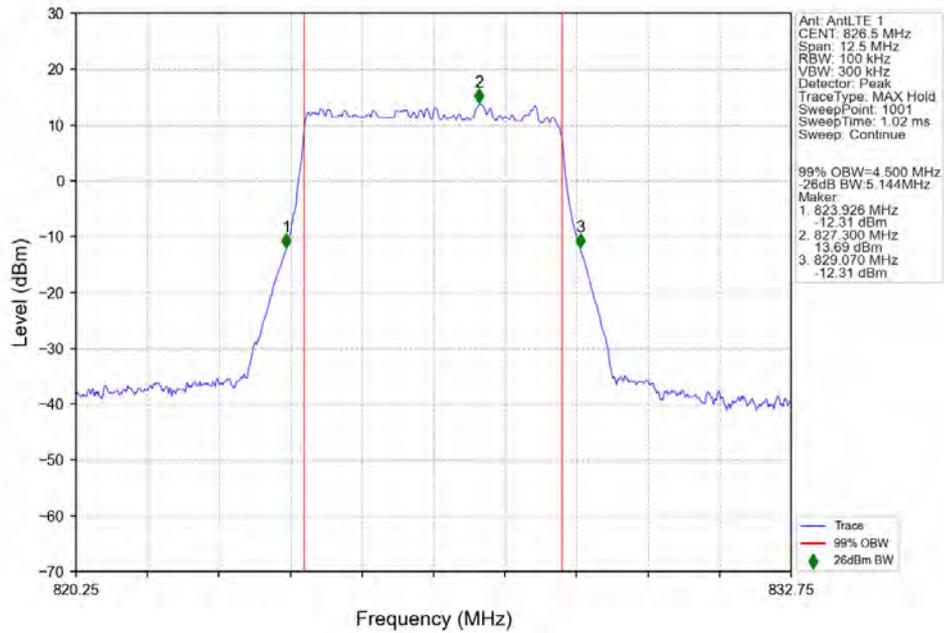
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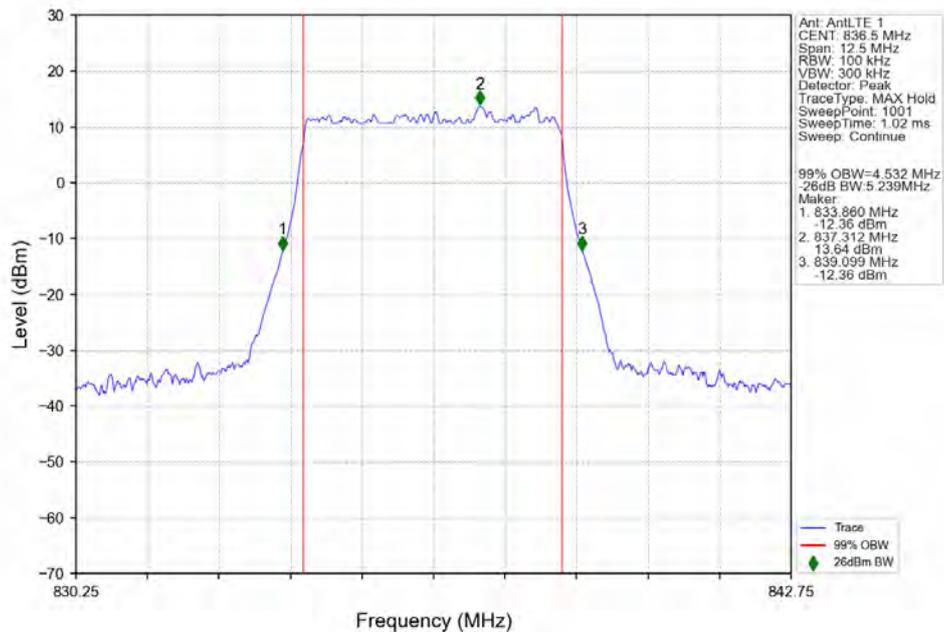
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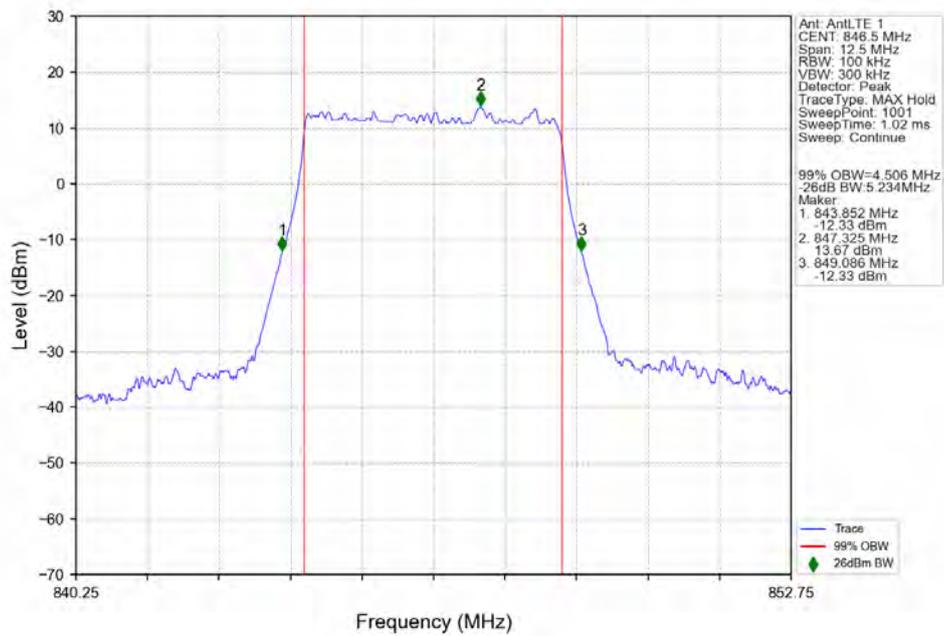
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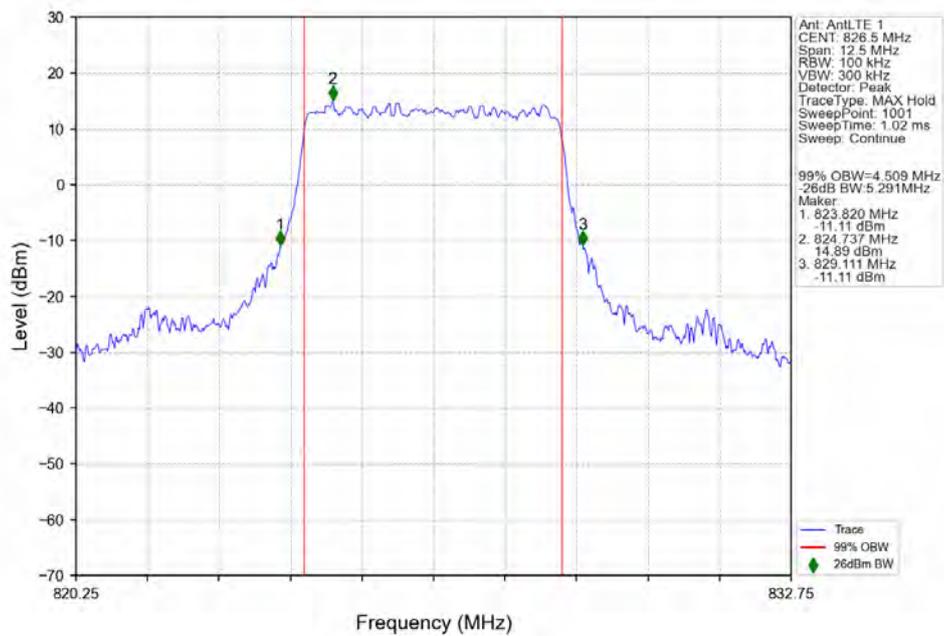
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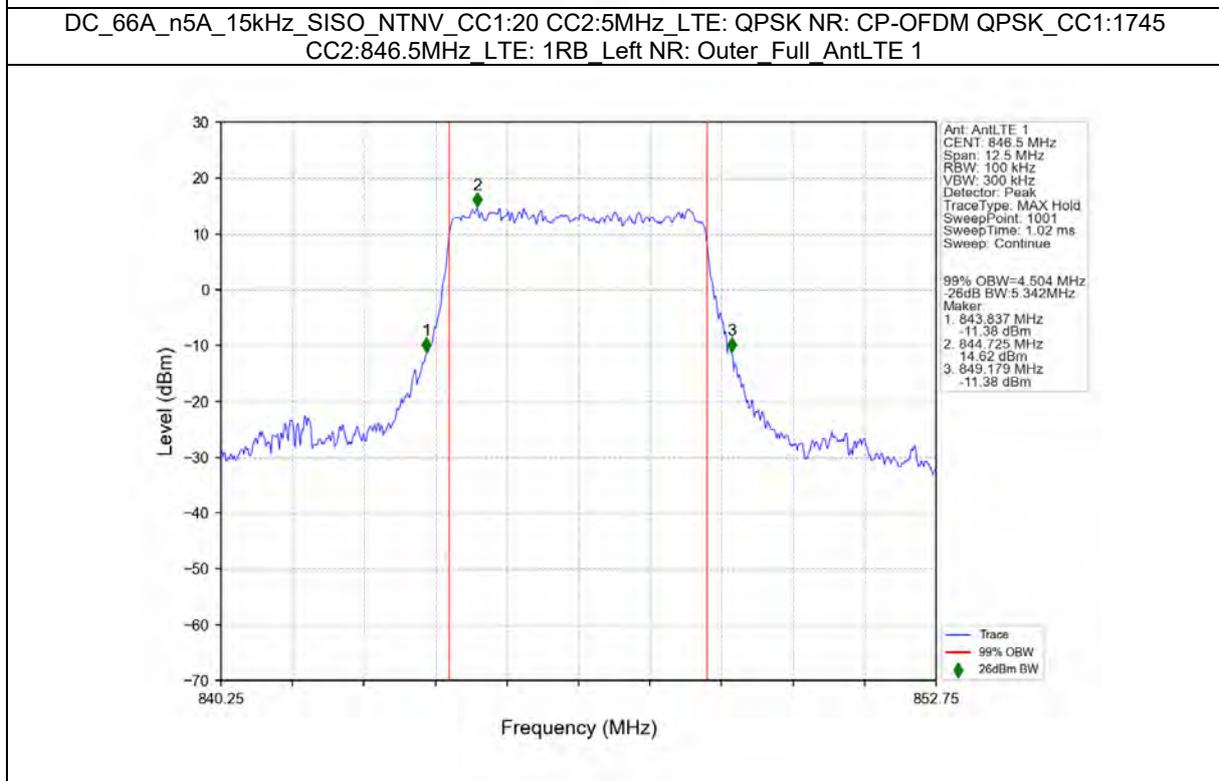
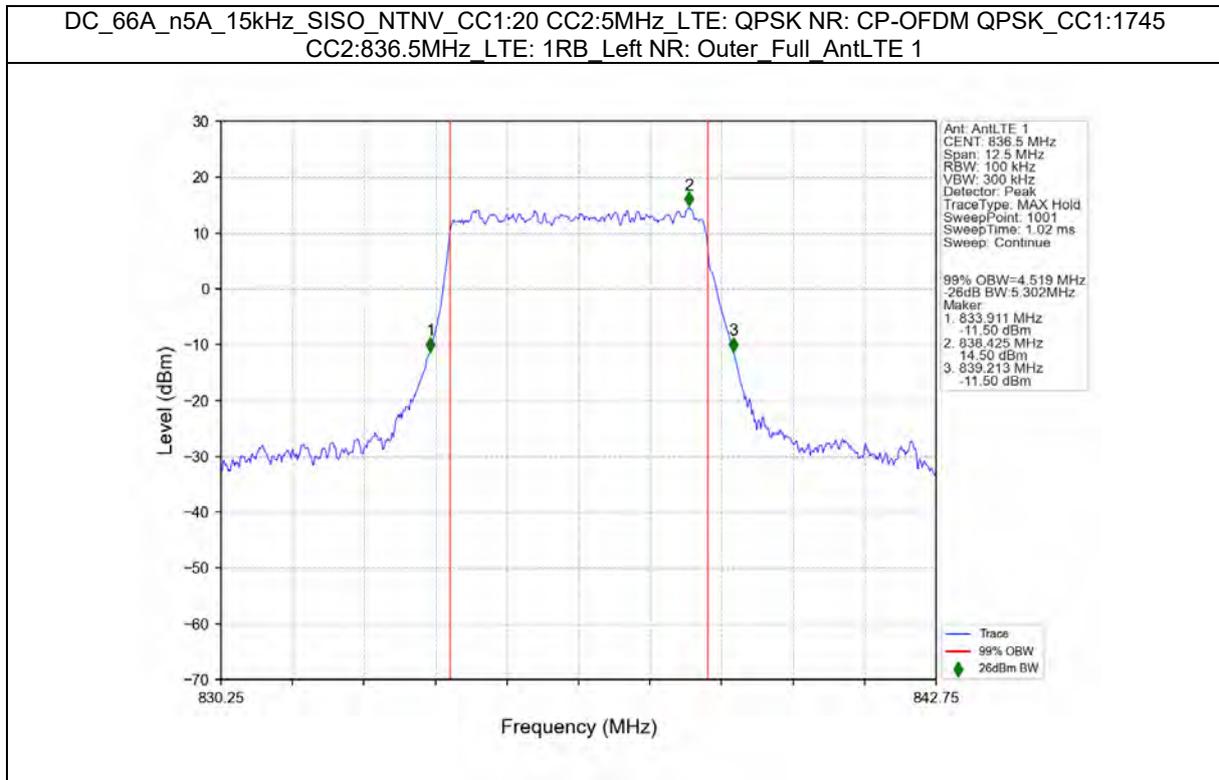


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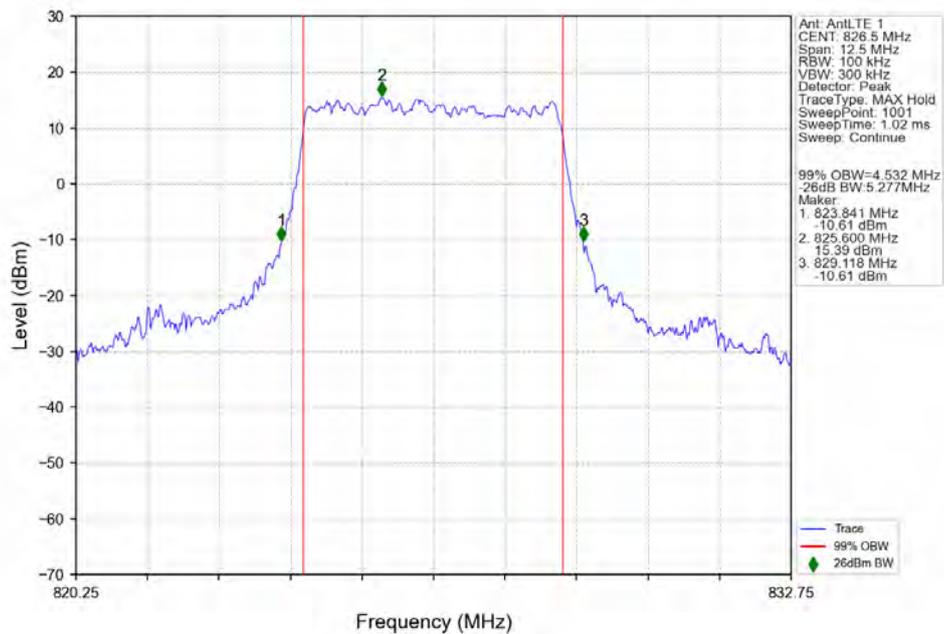


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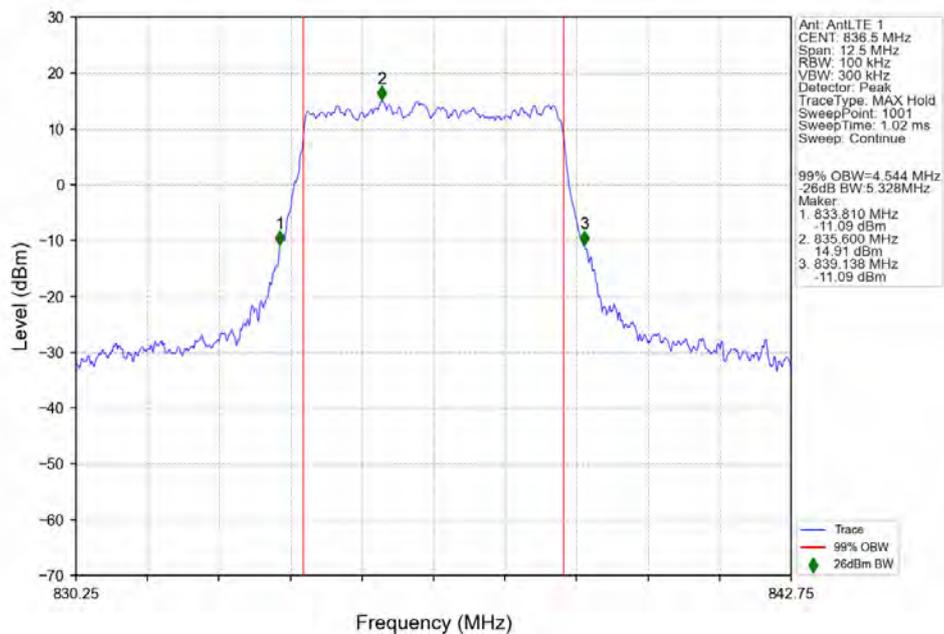




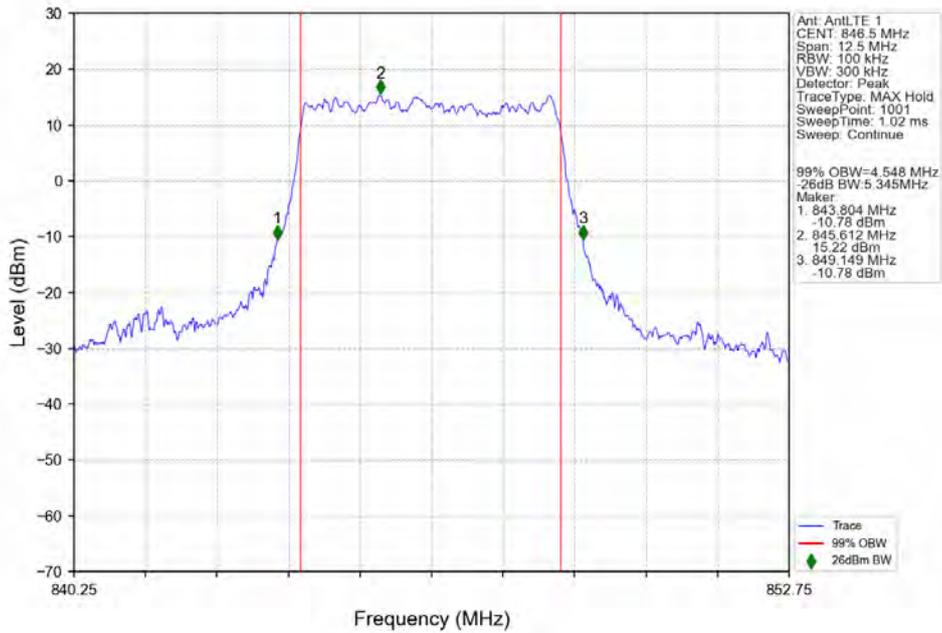
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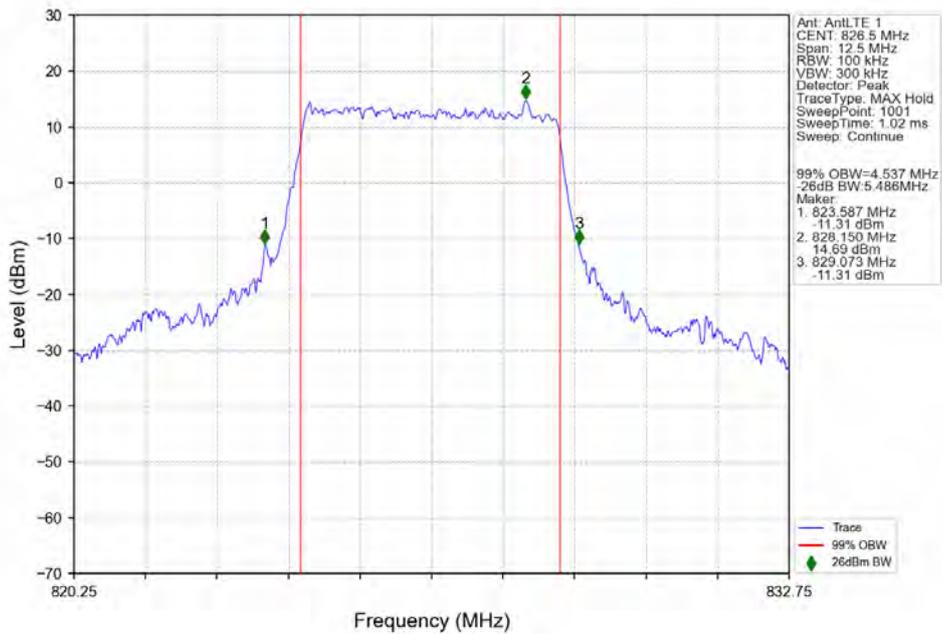
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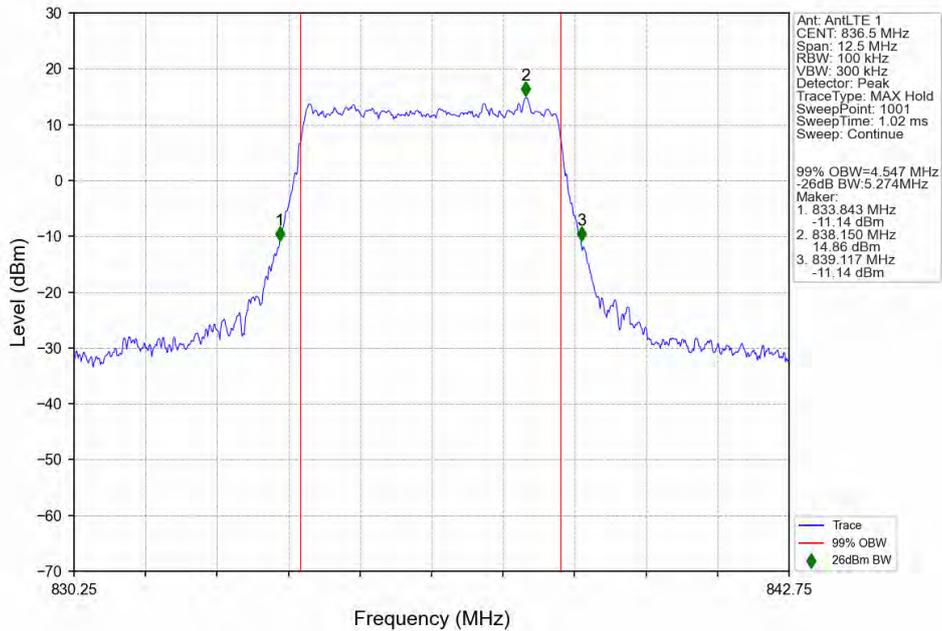
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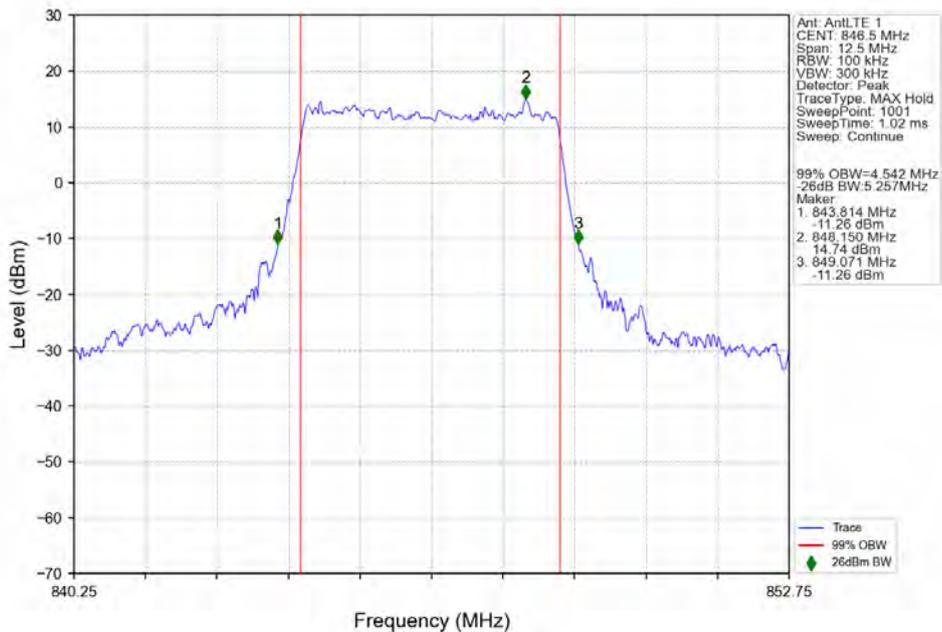
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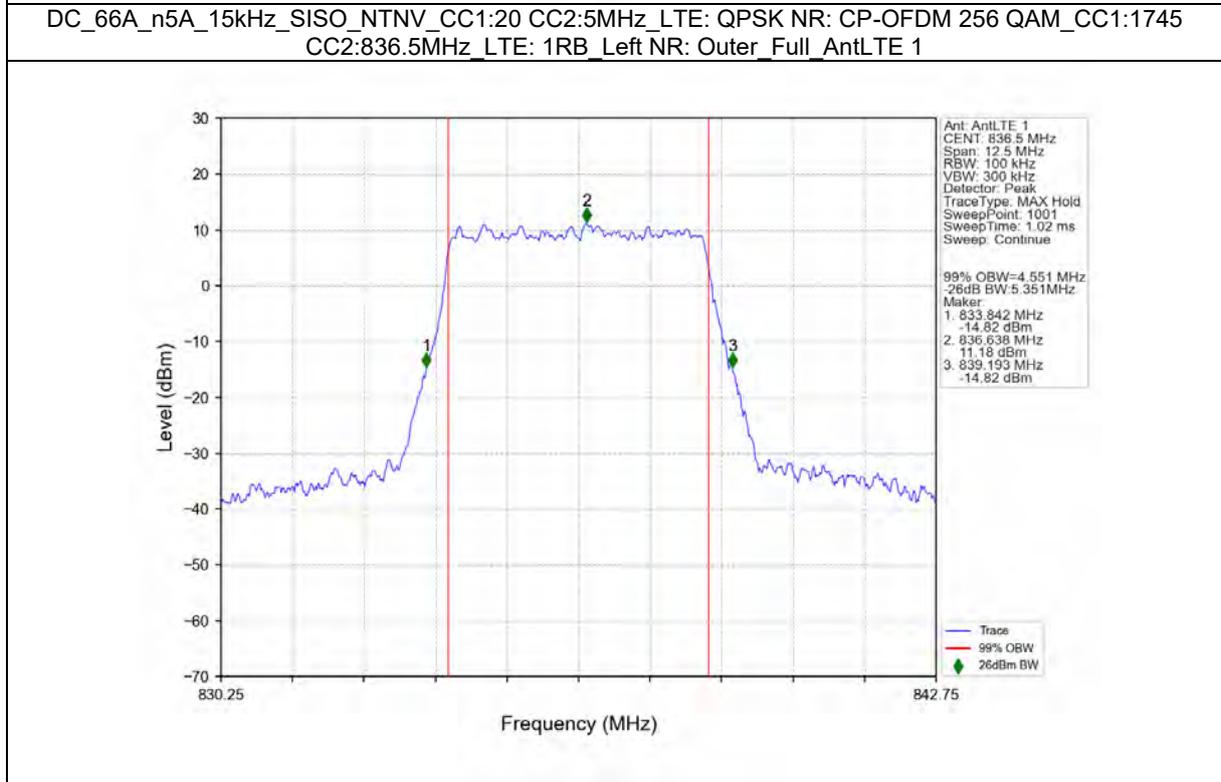
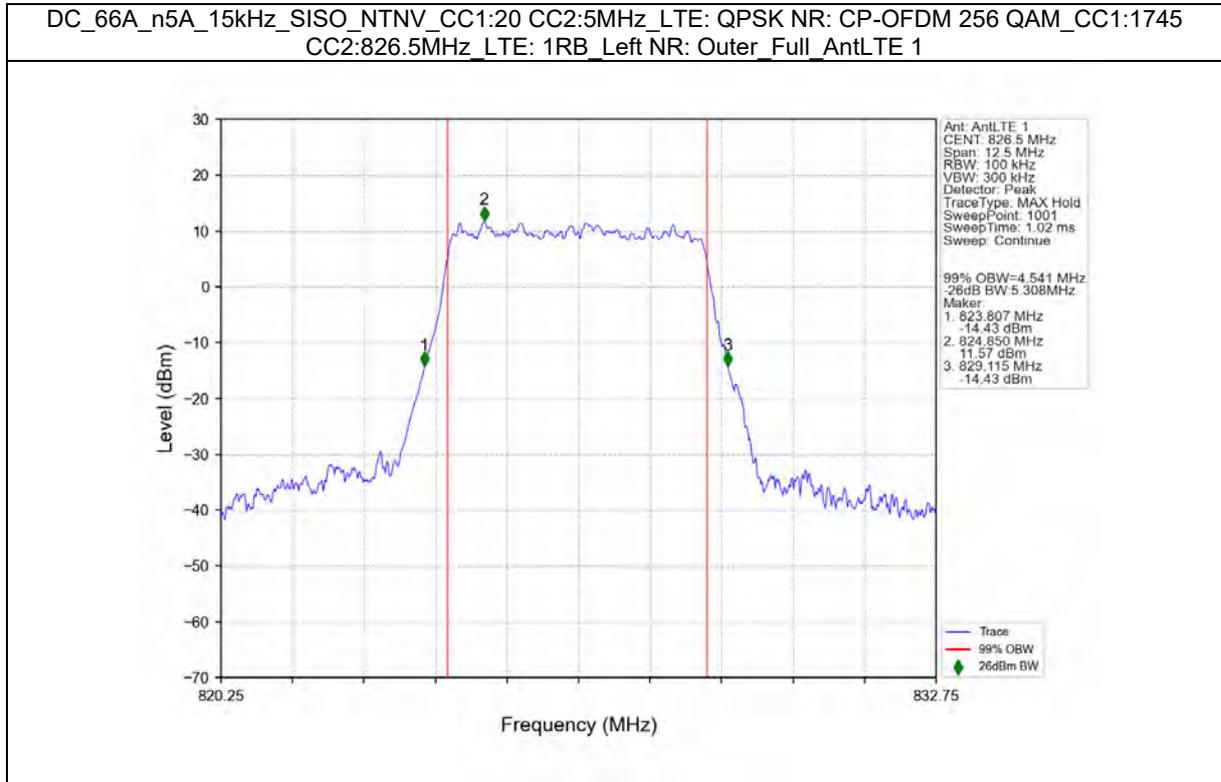


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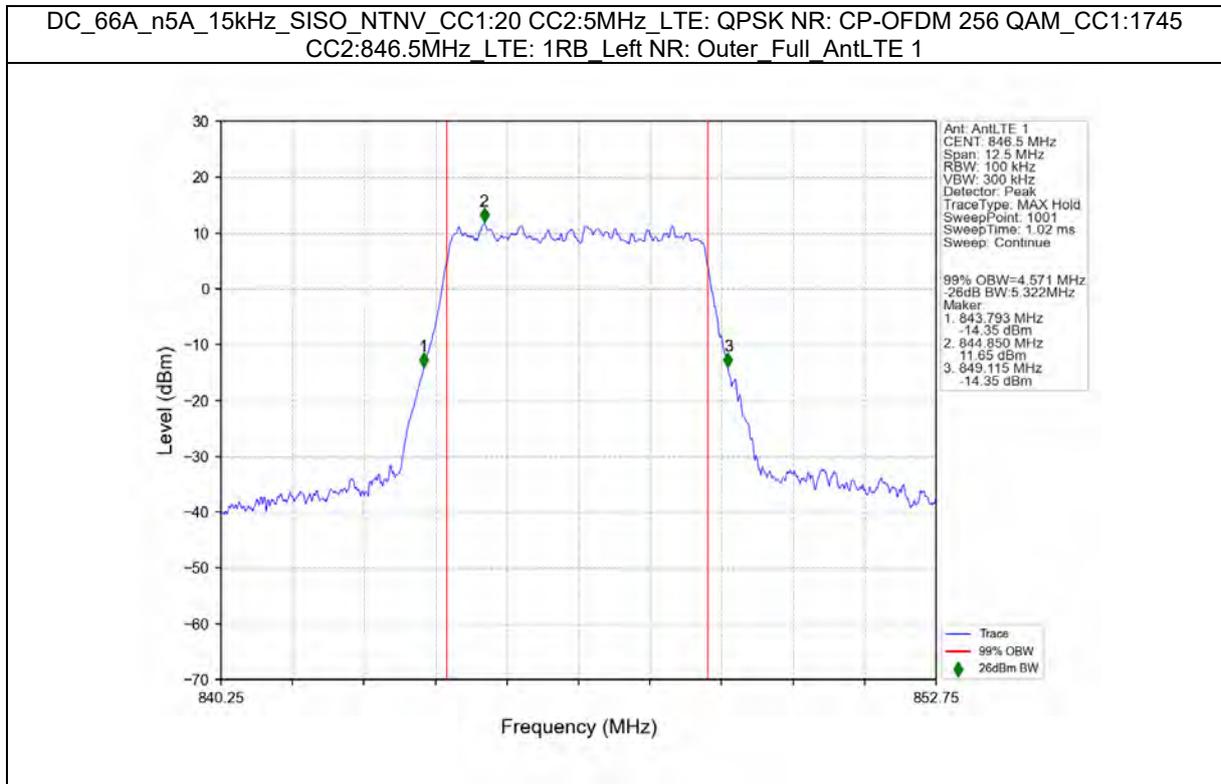
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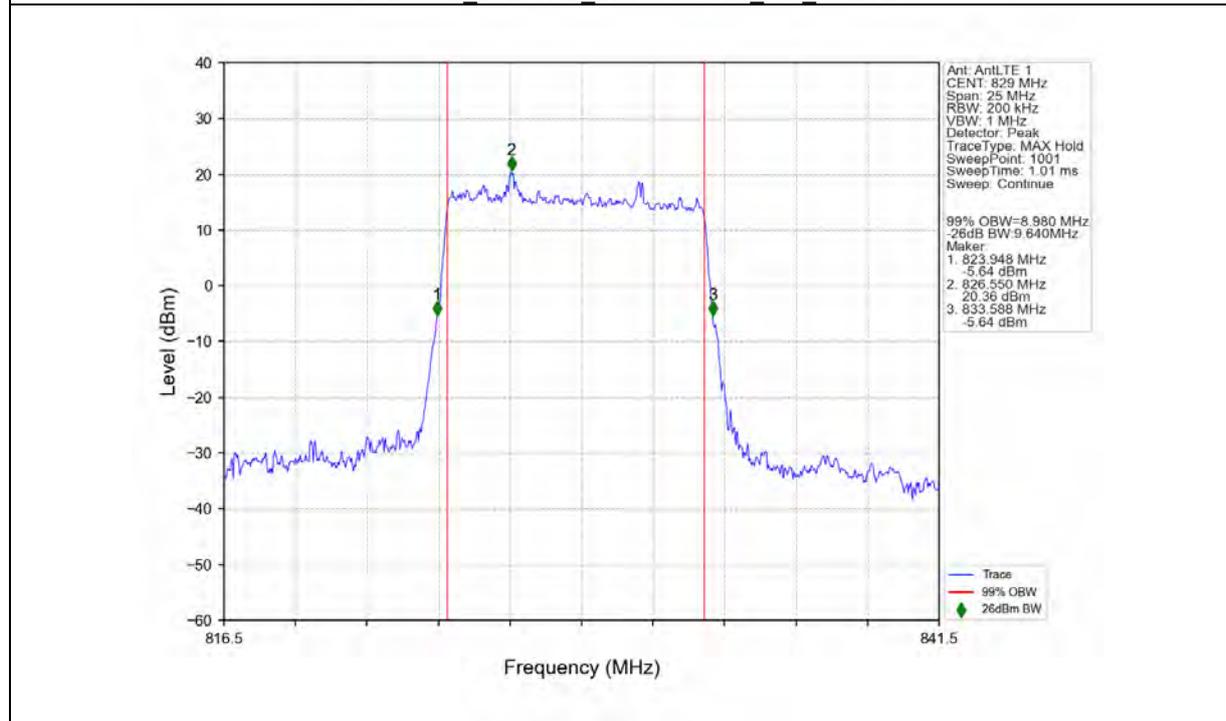


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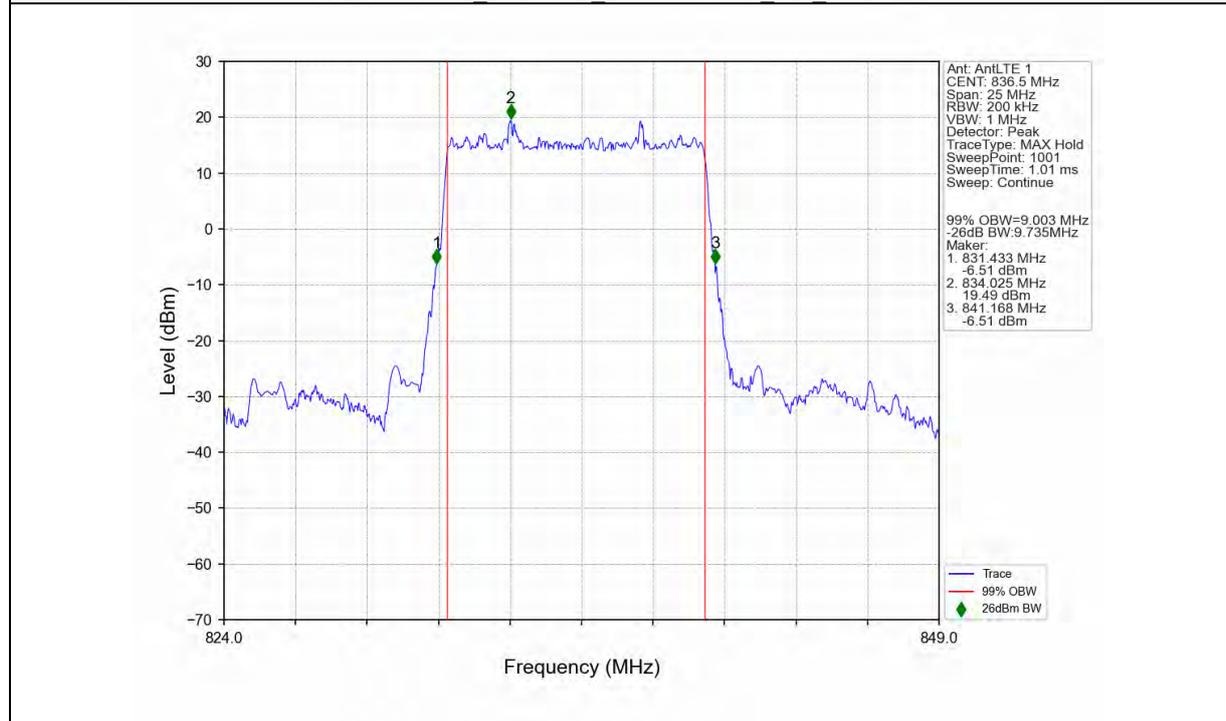


2.2.2 15k_SISO_10MHz_NTNV

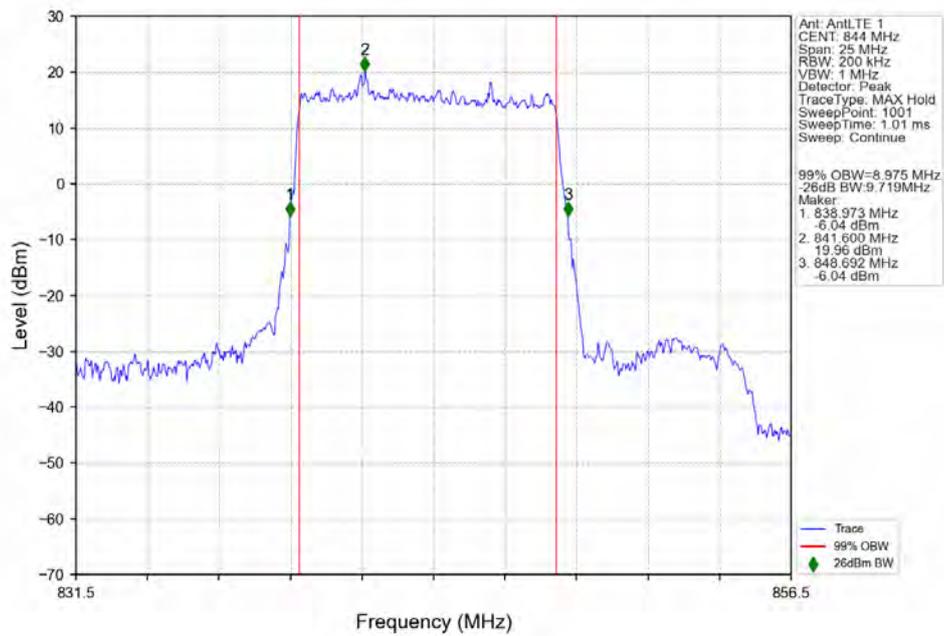
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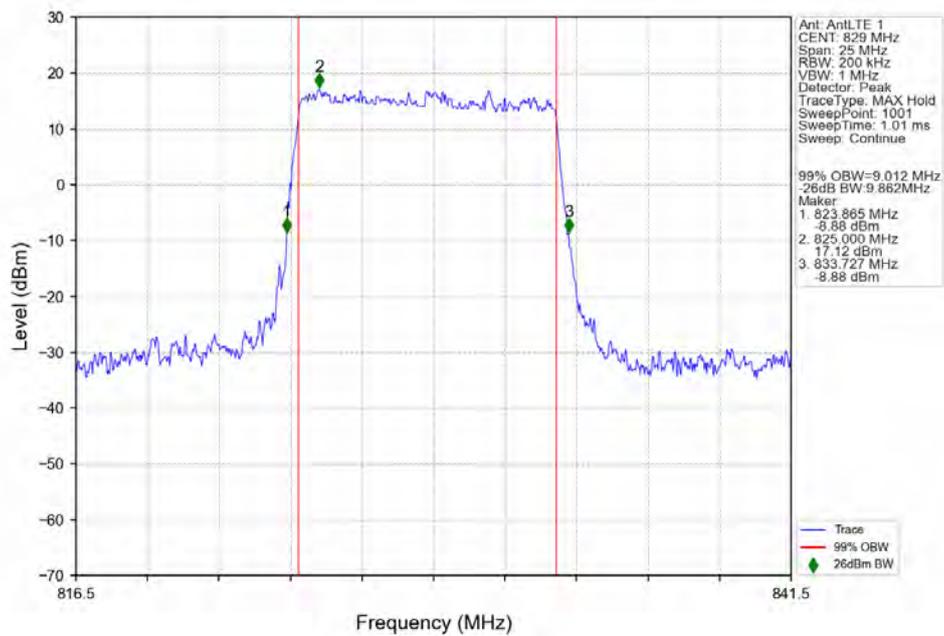
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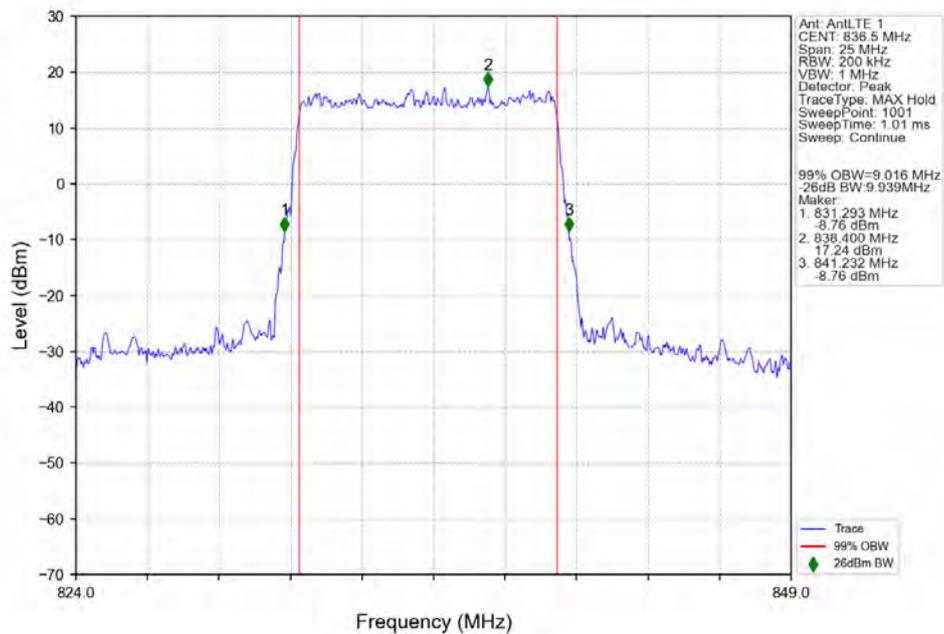
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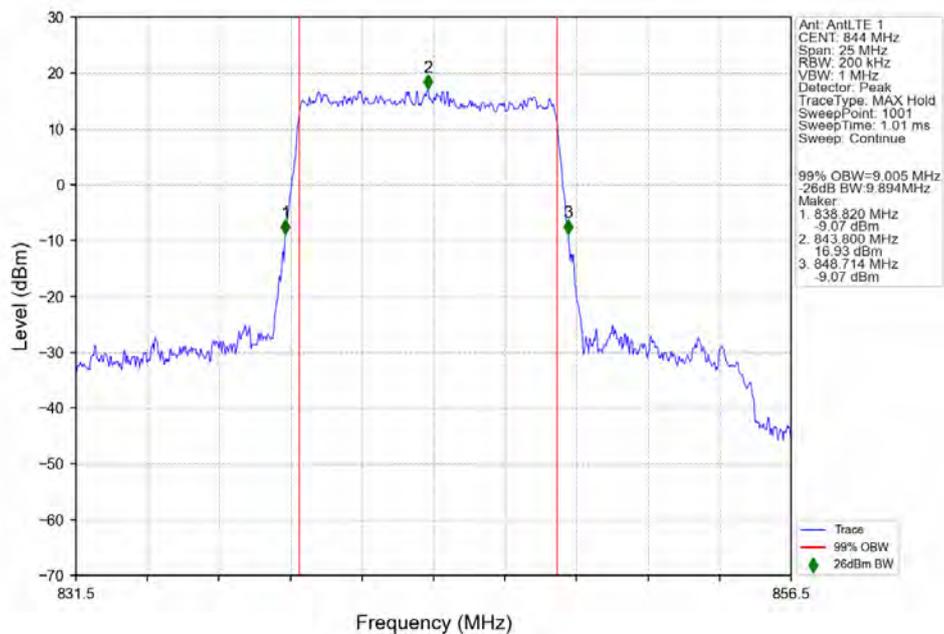
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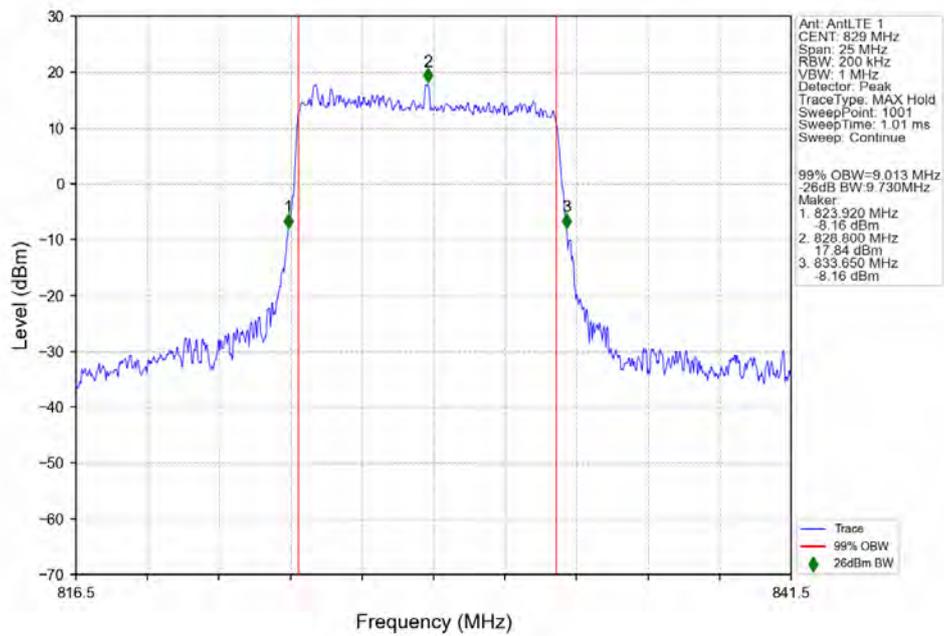
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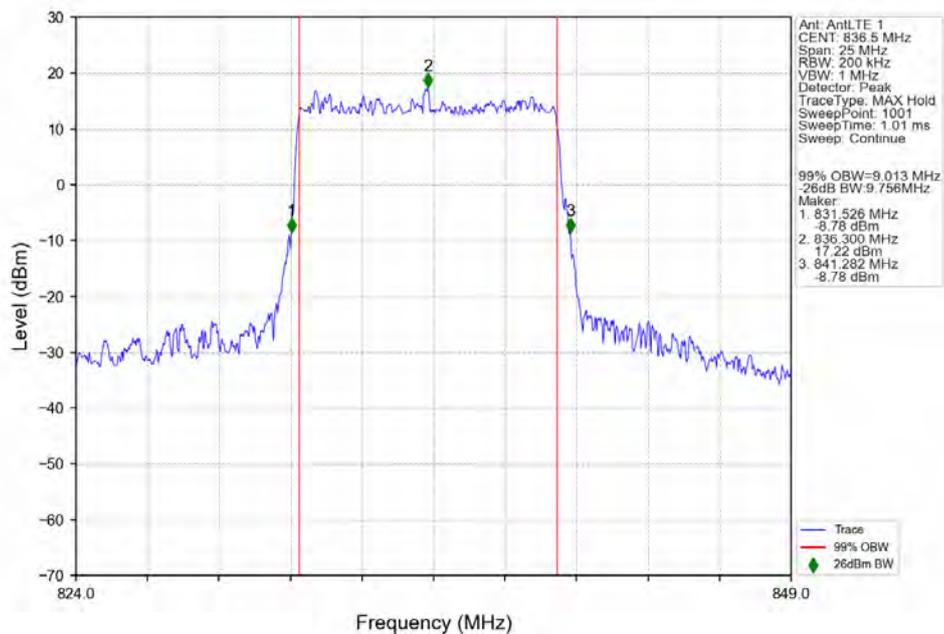
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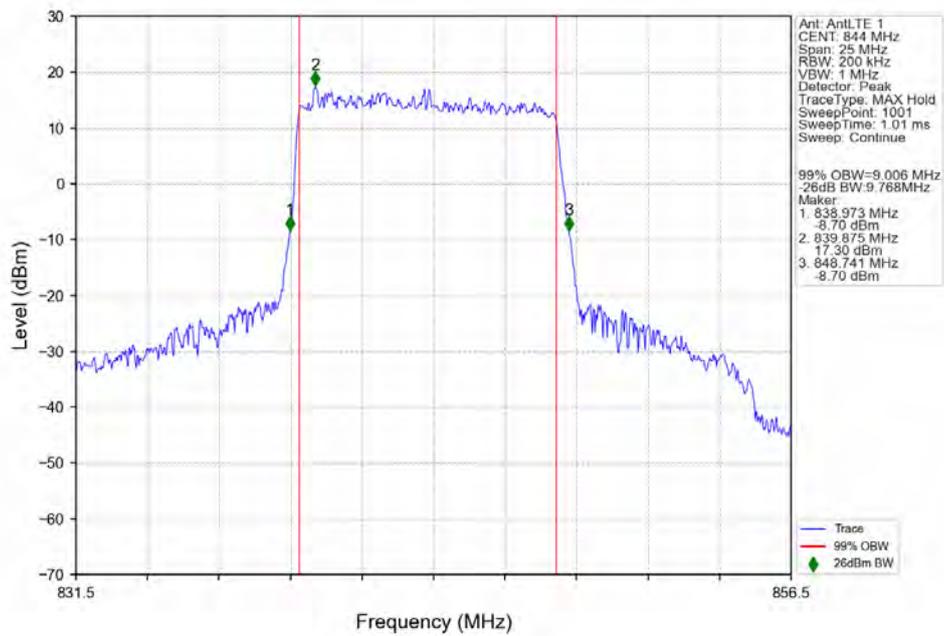
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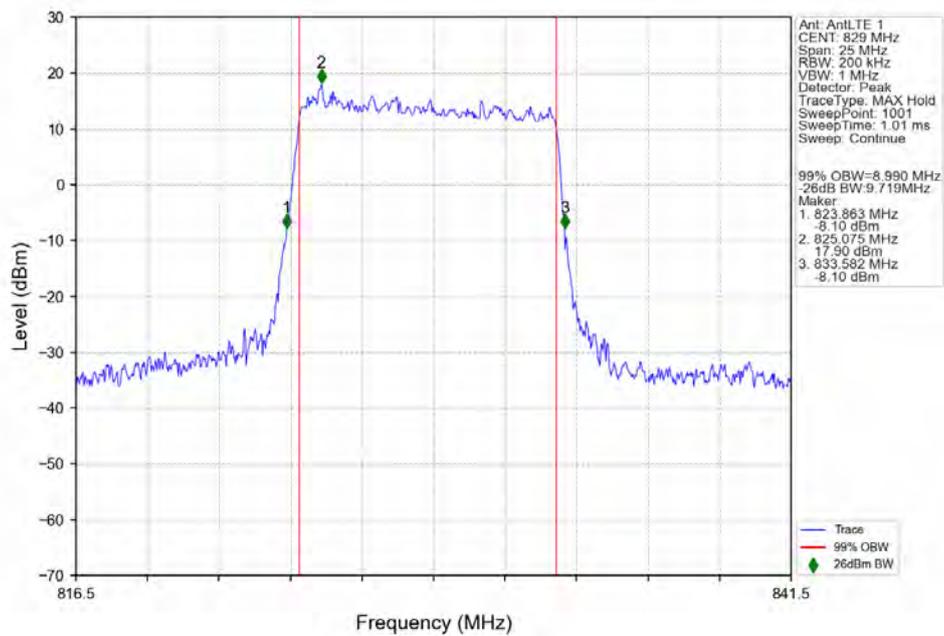
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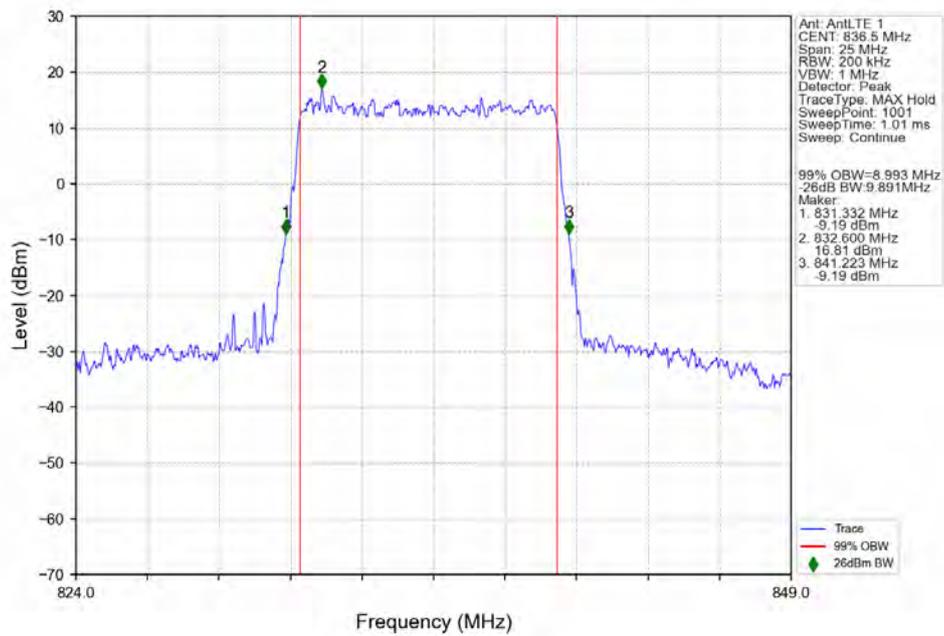
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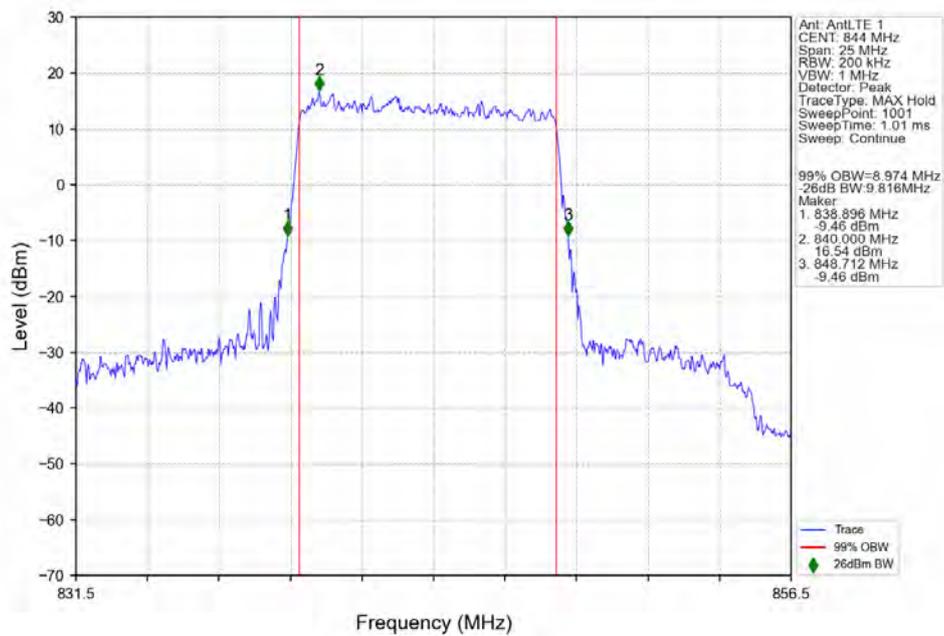
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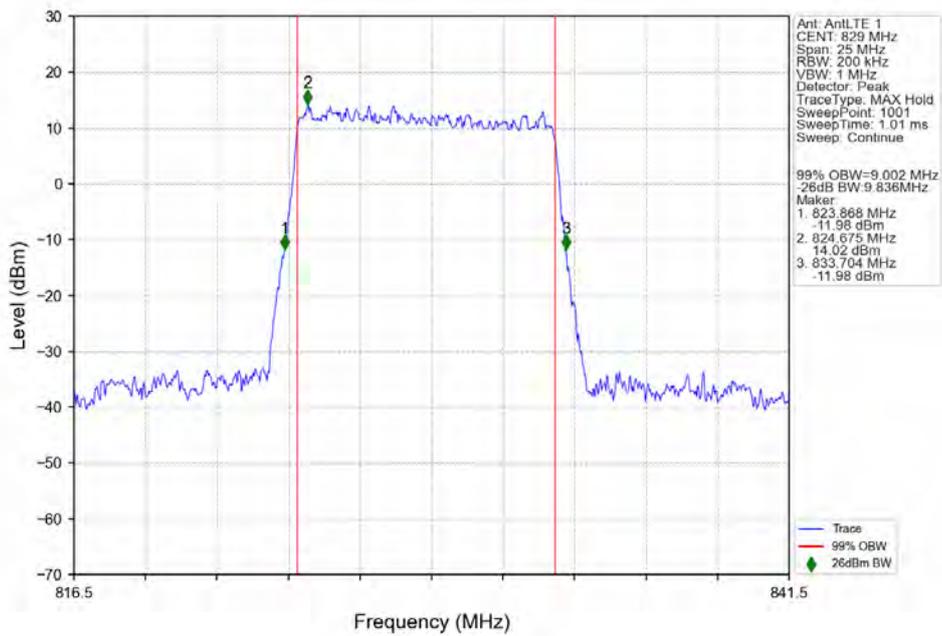
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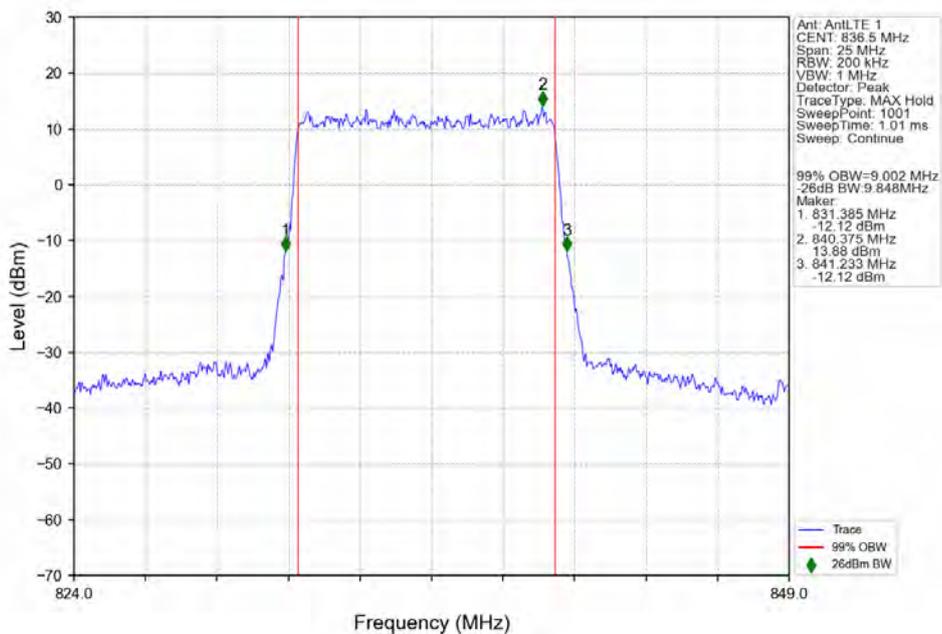
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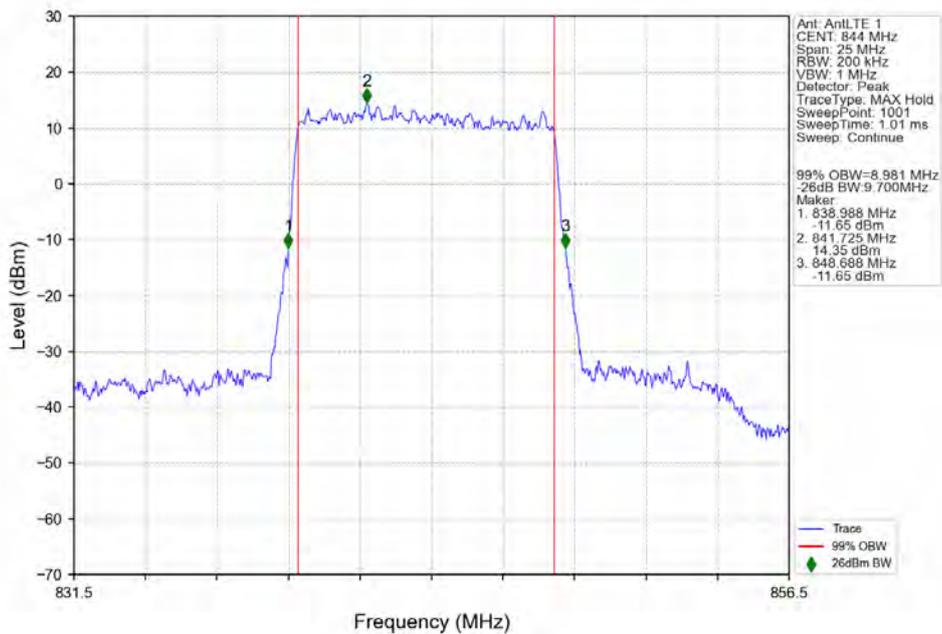
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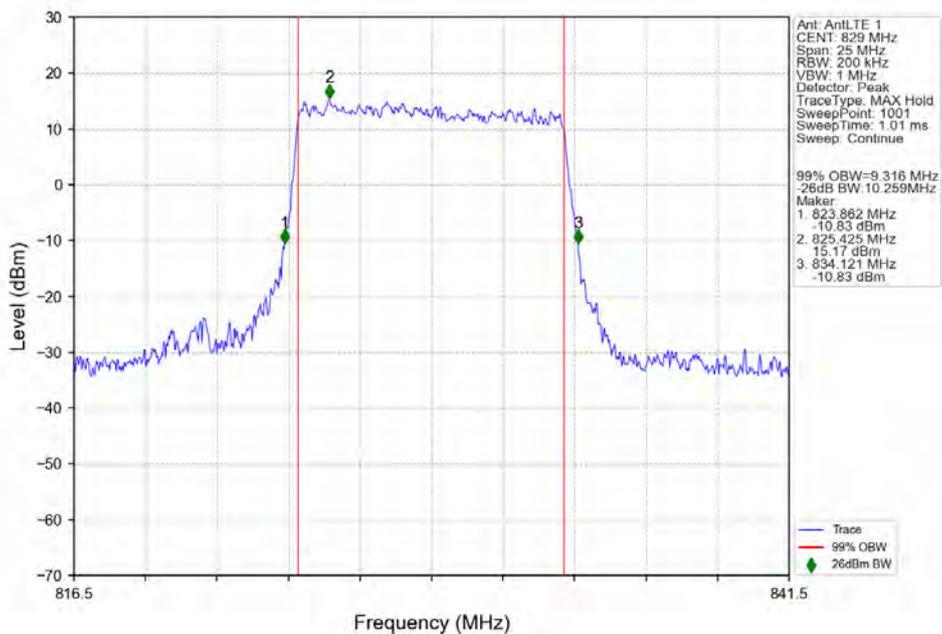
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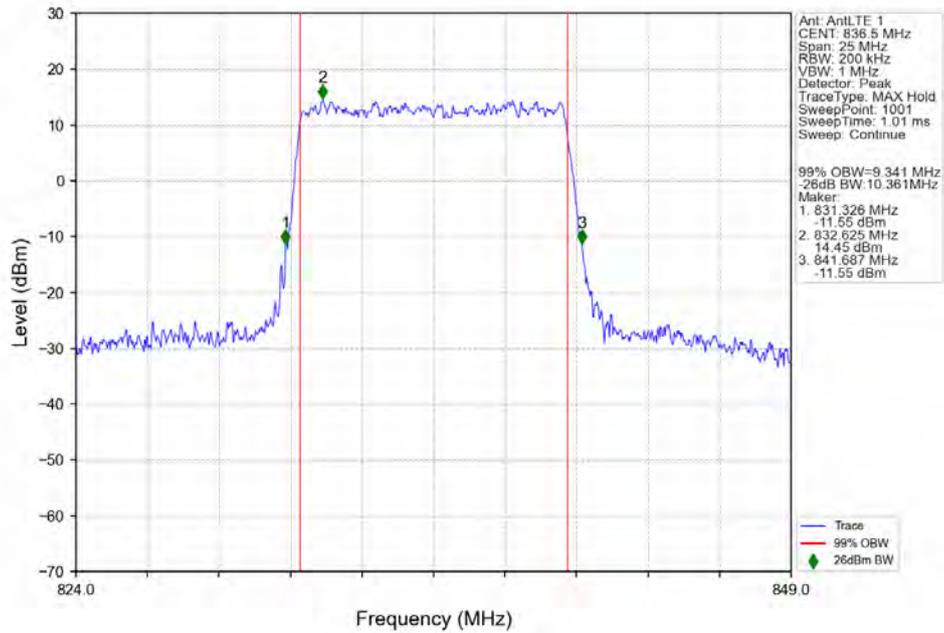
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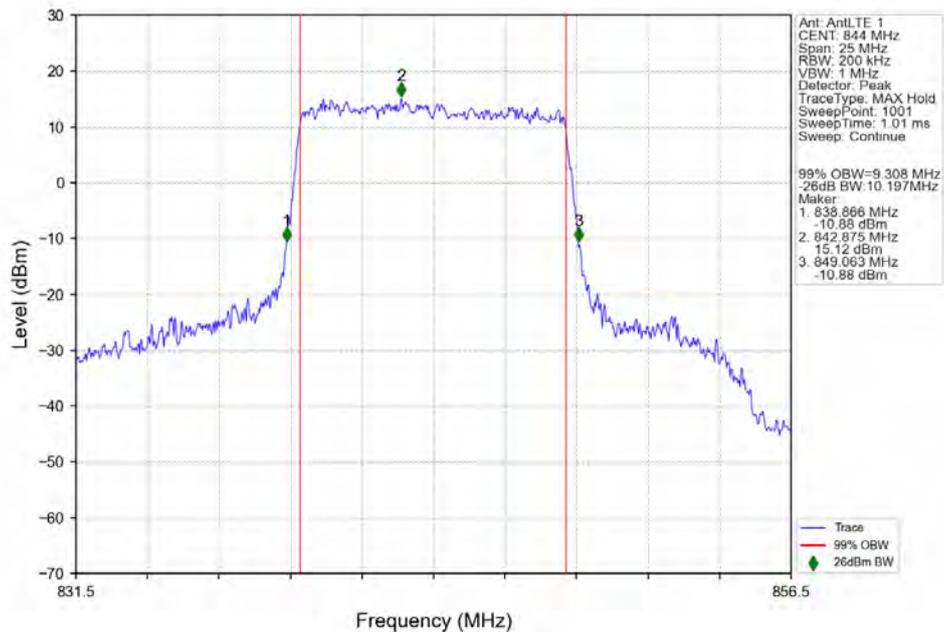
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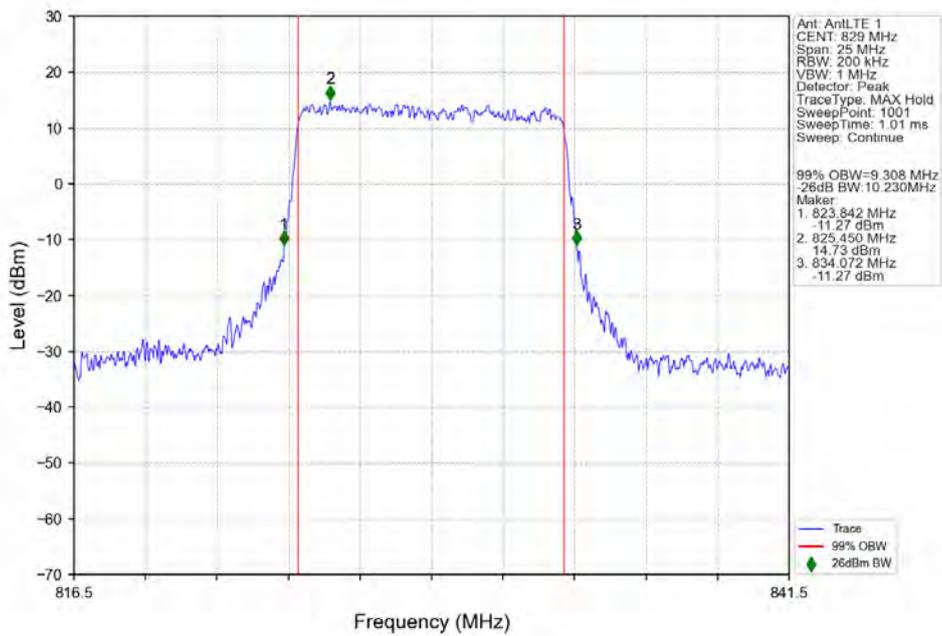
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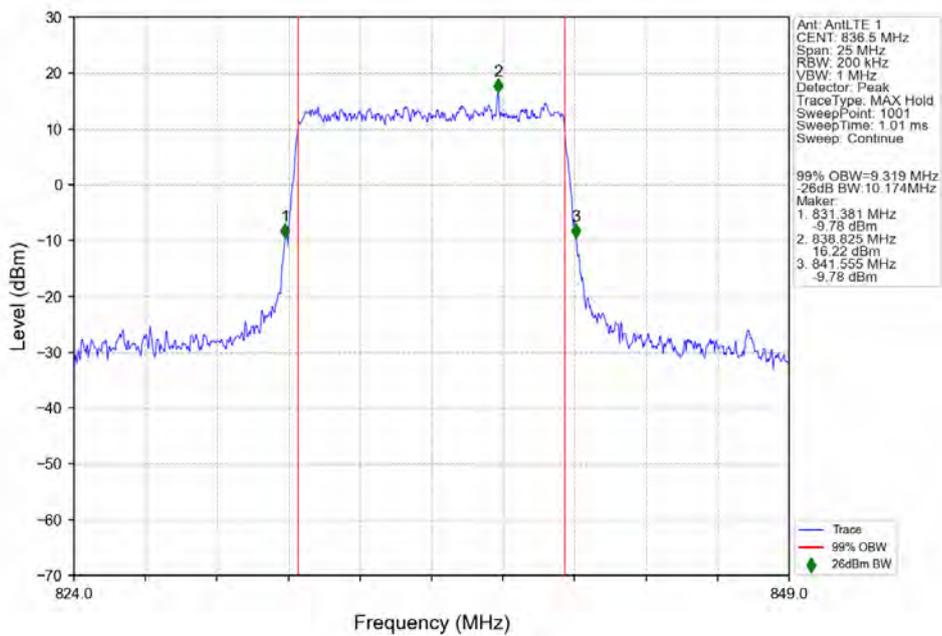
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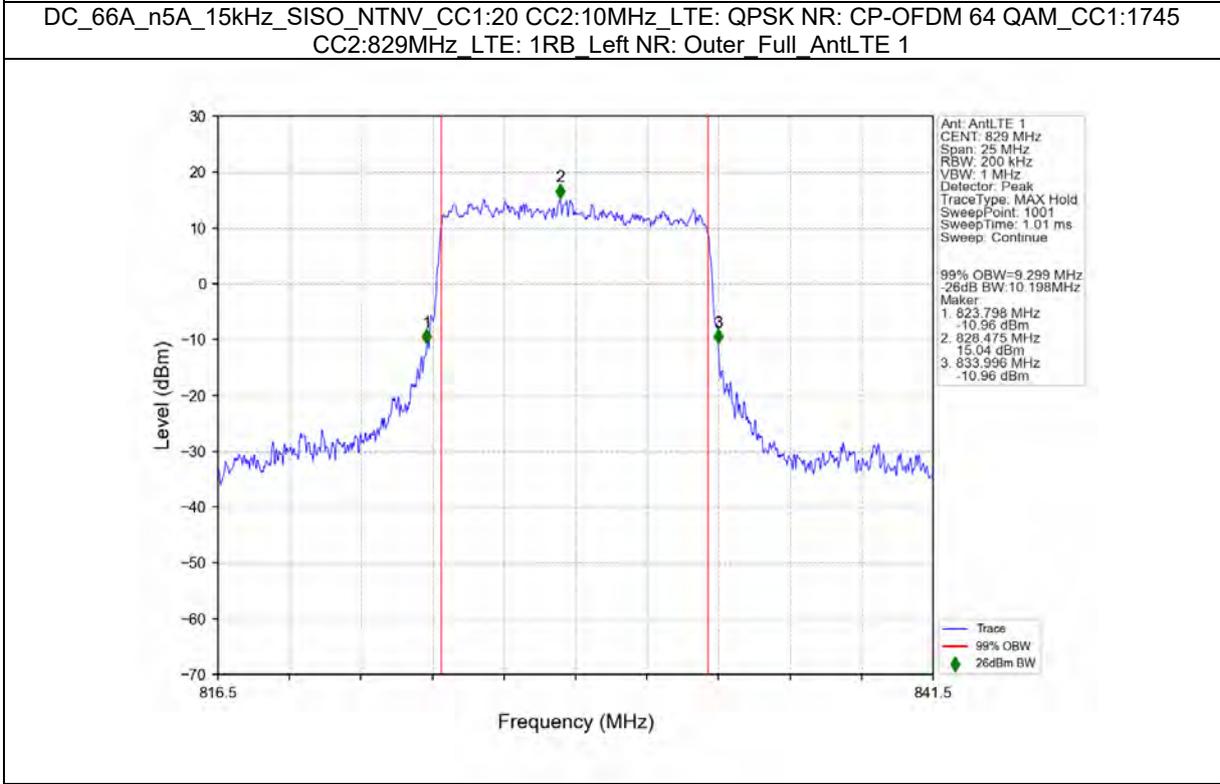
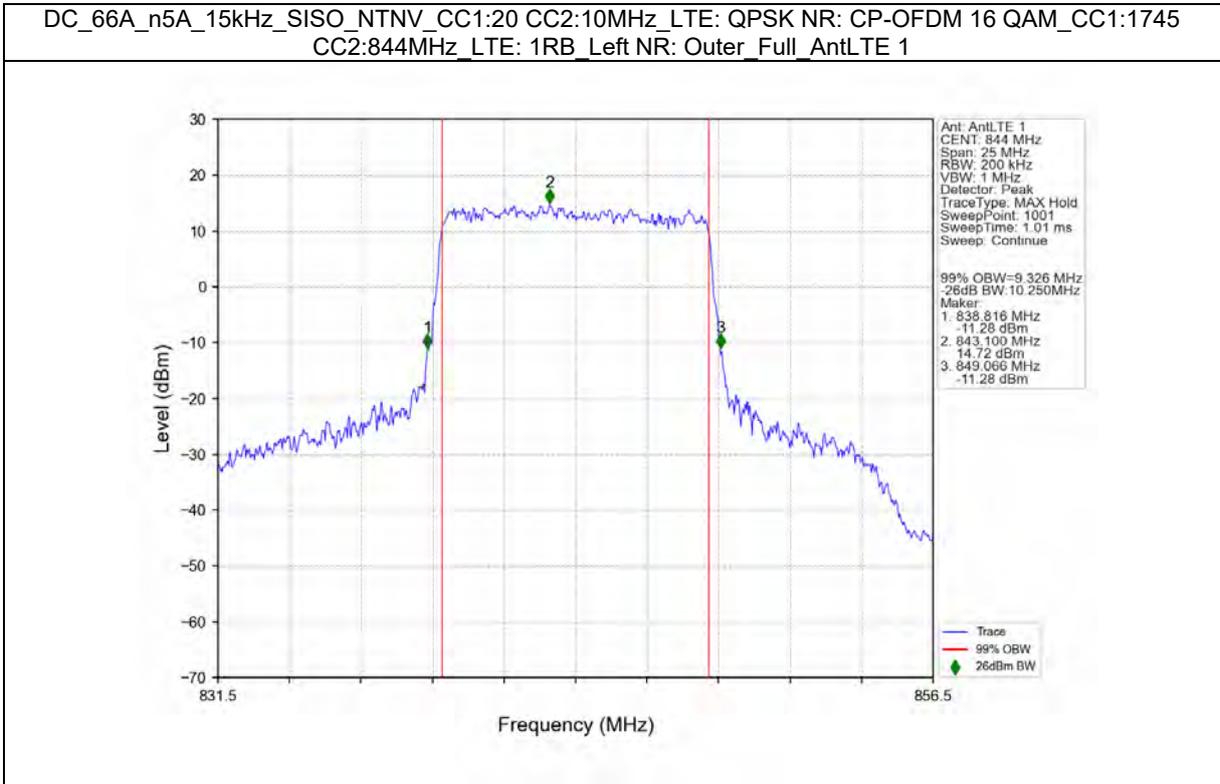


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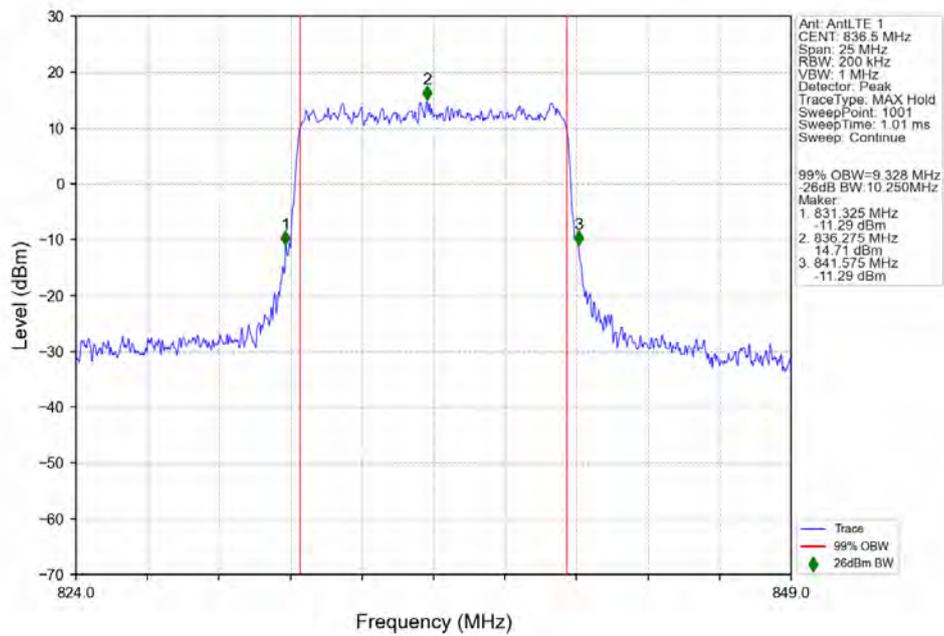


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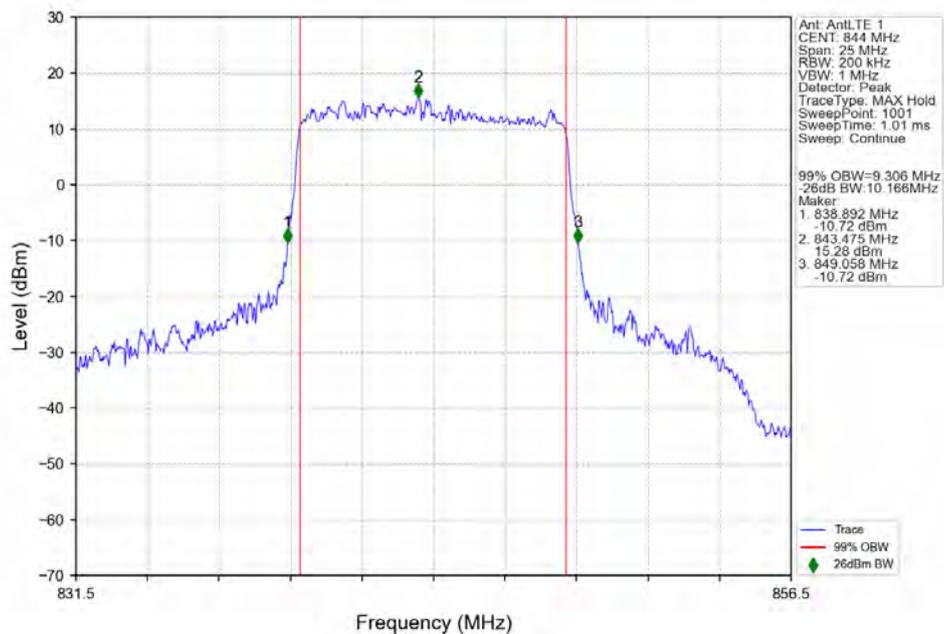




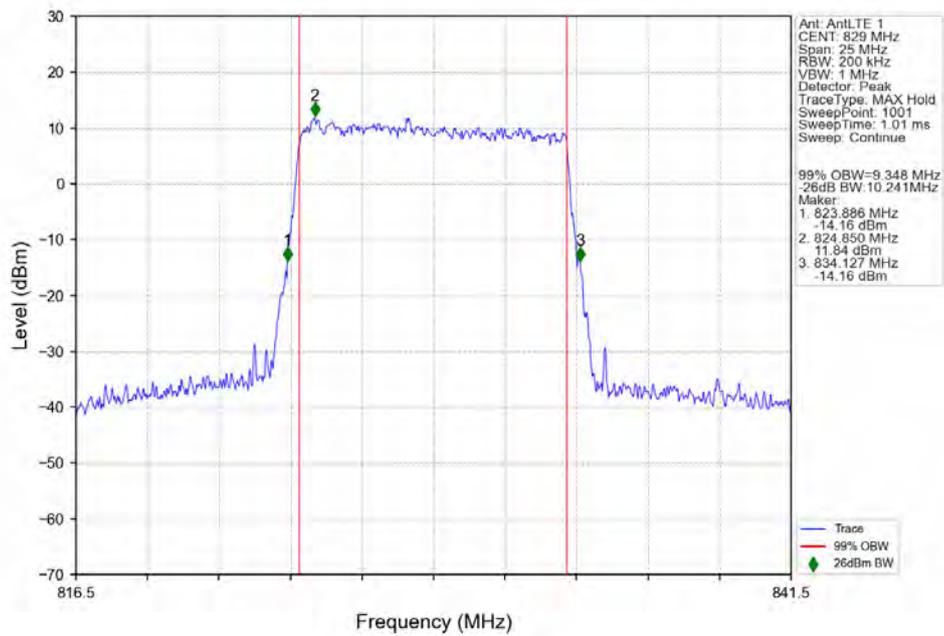
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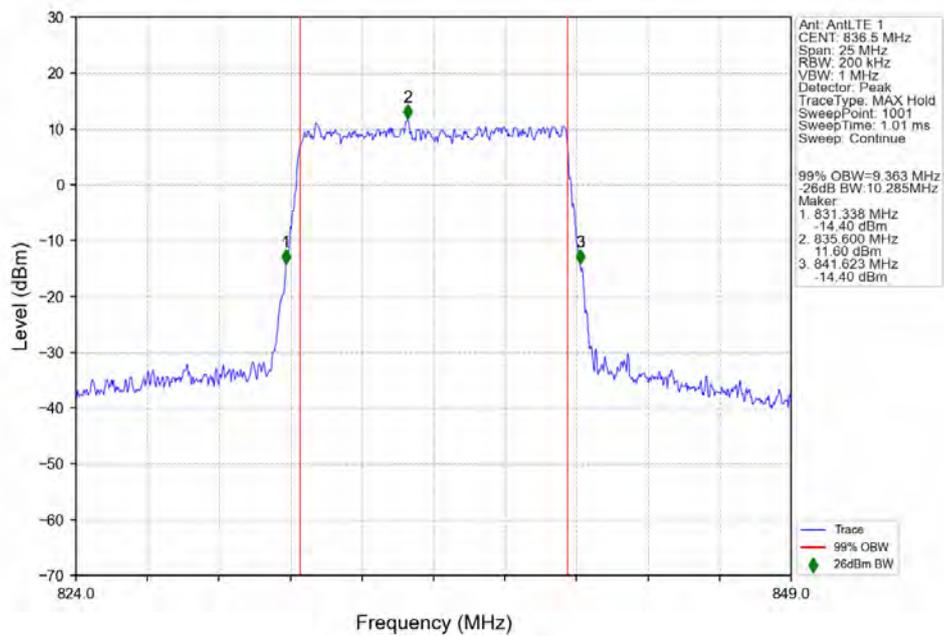
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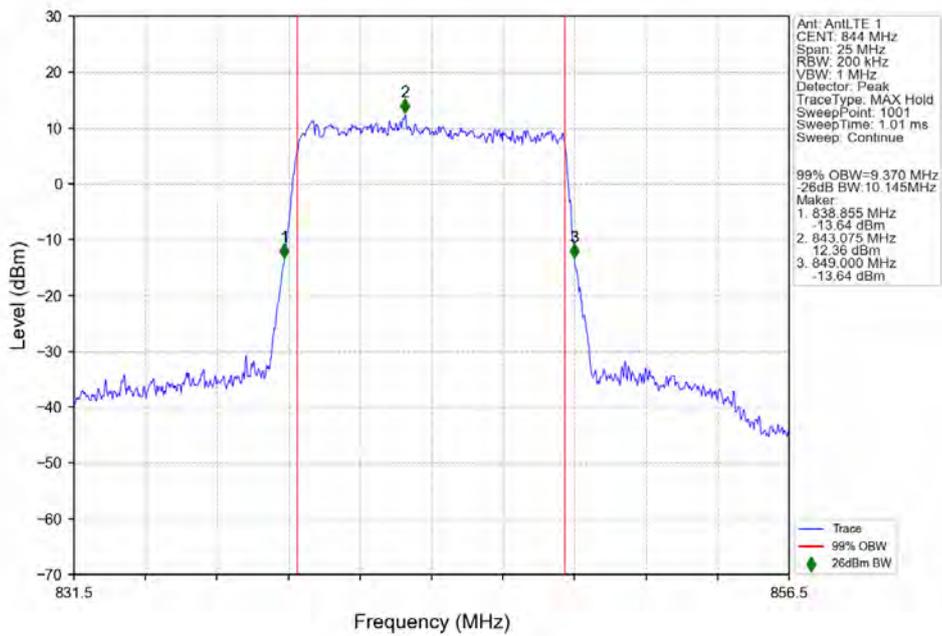
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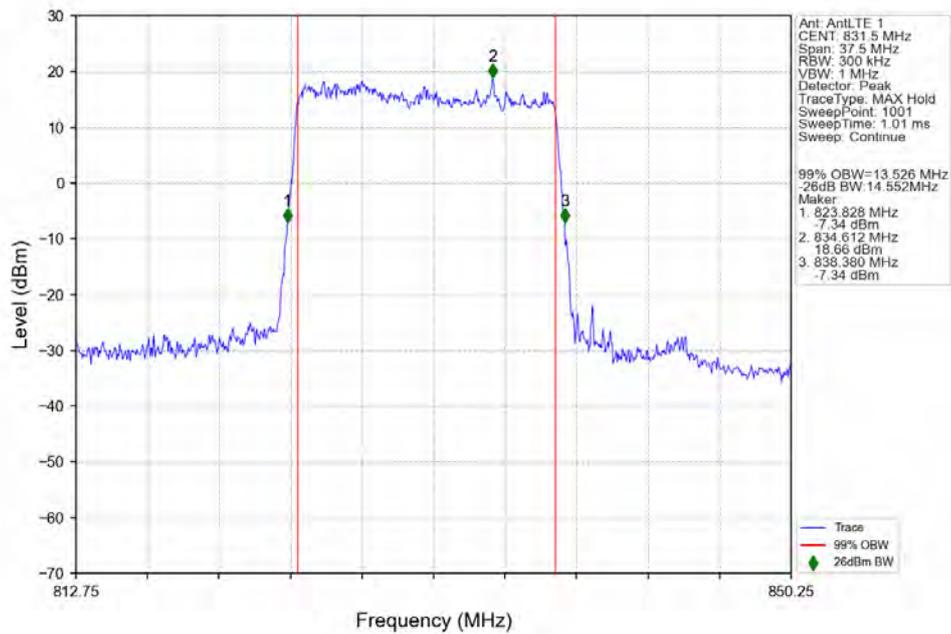


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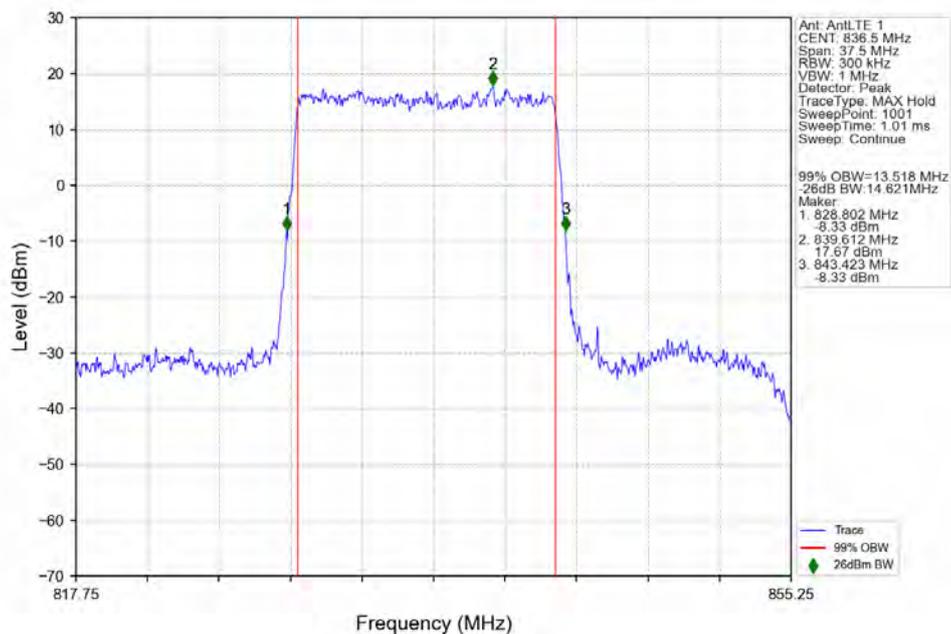


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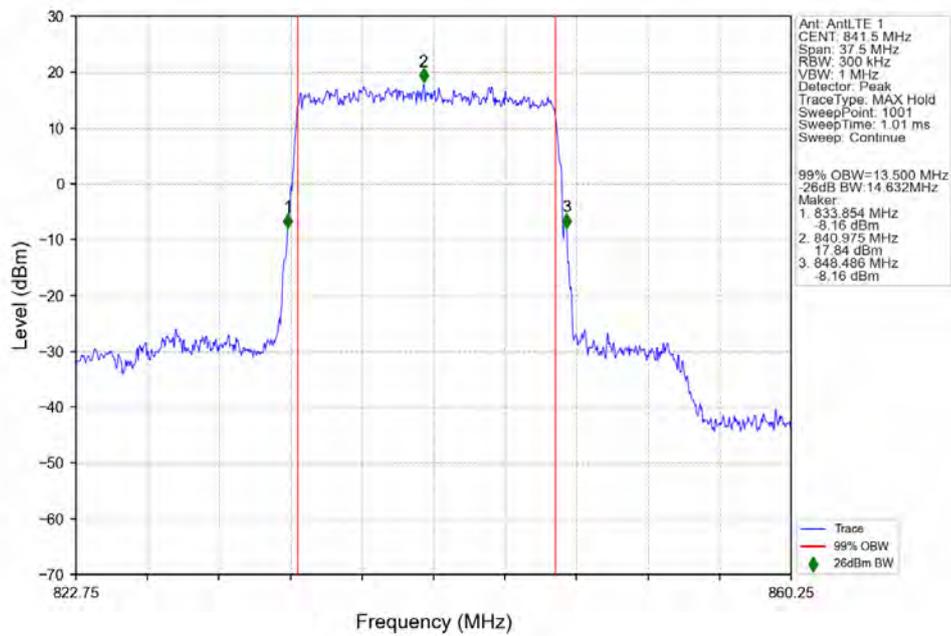
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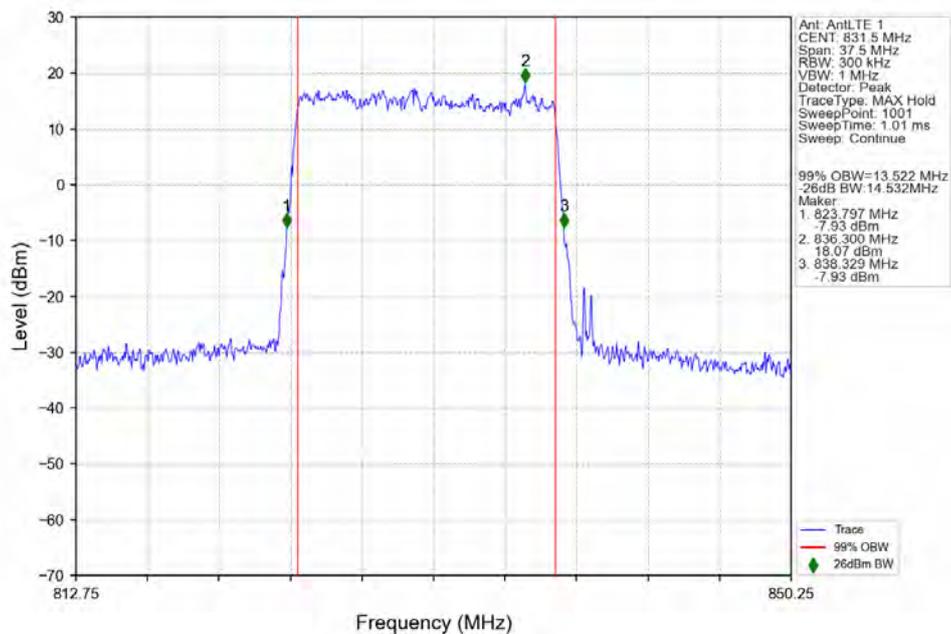
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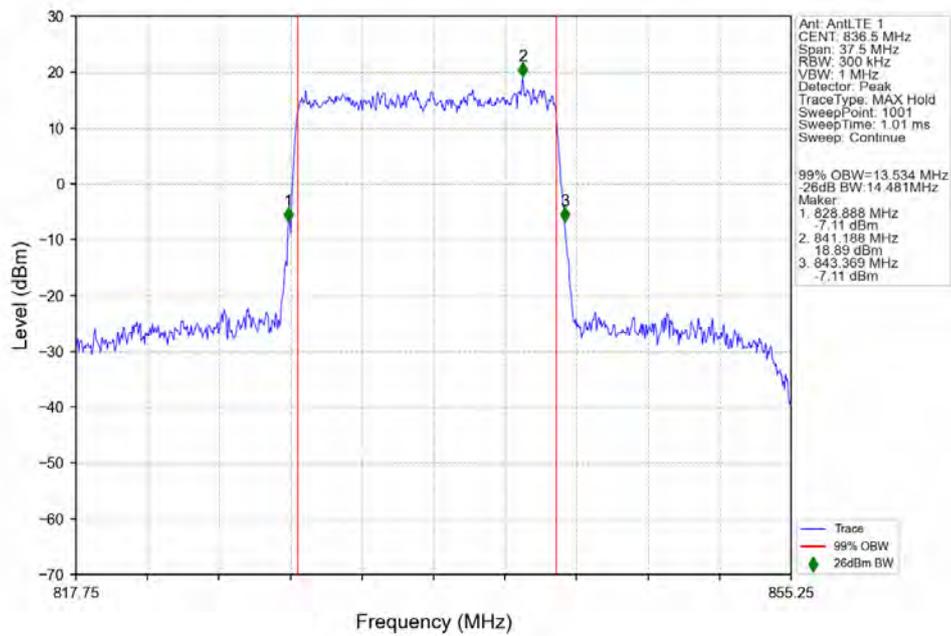
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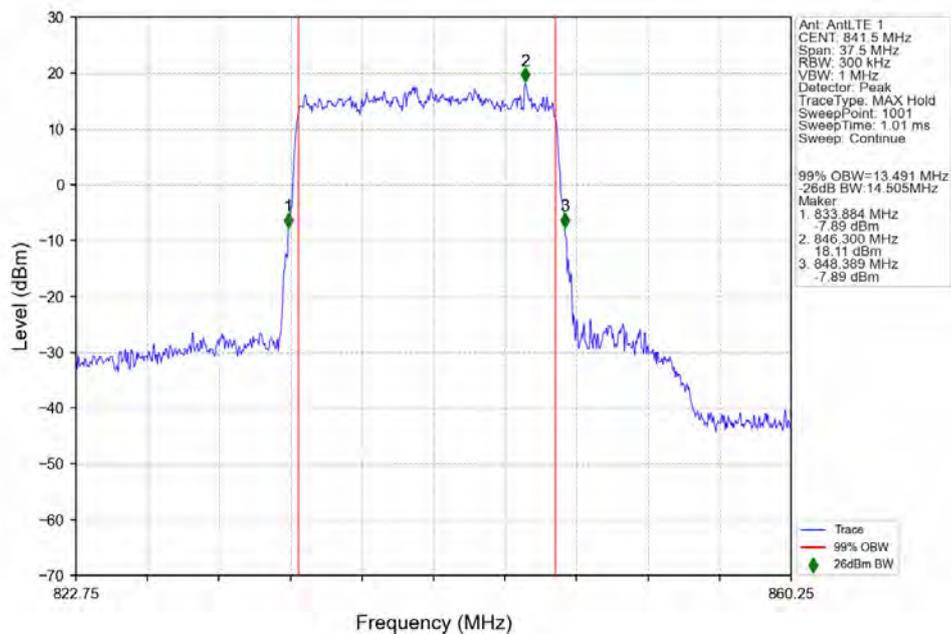
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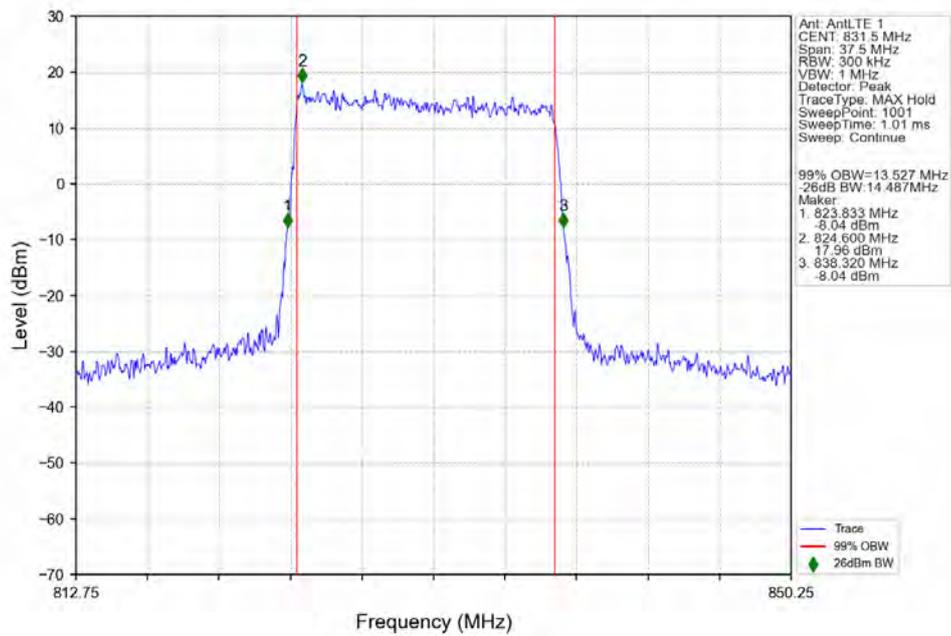
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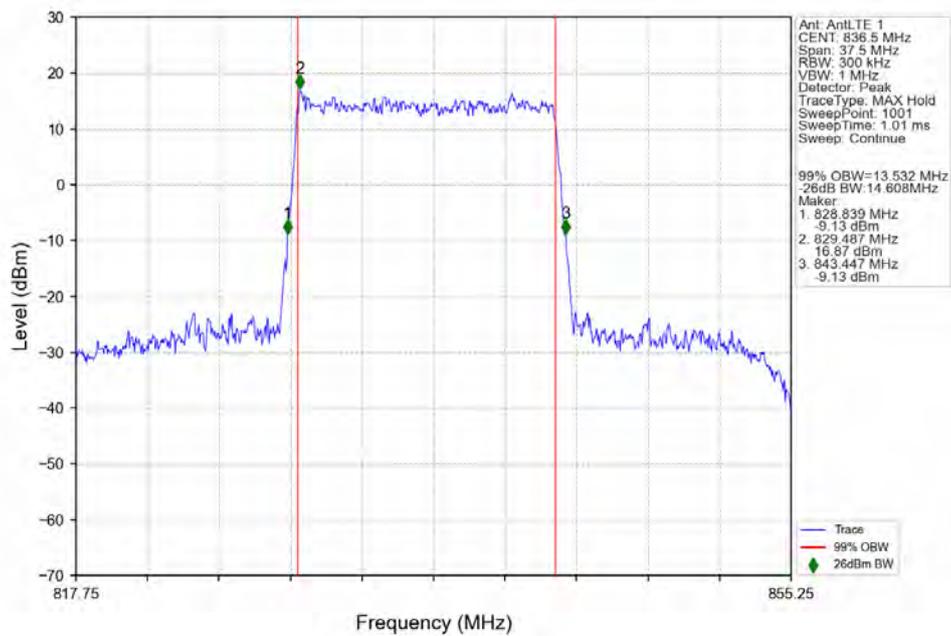
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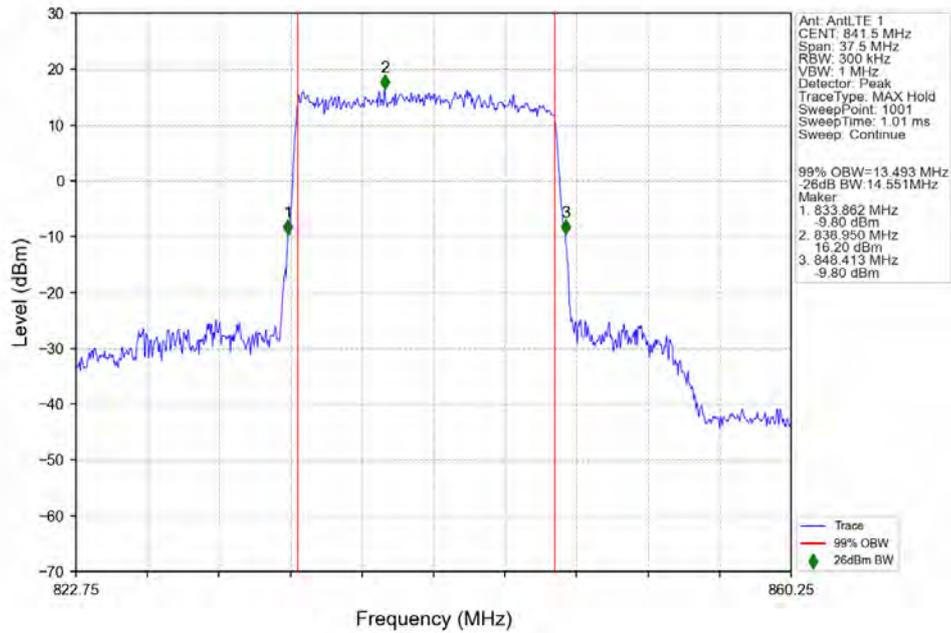
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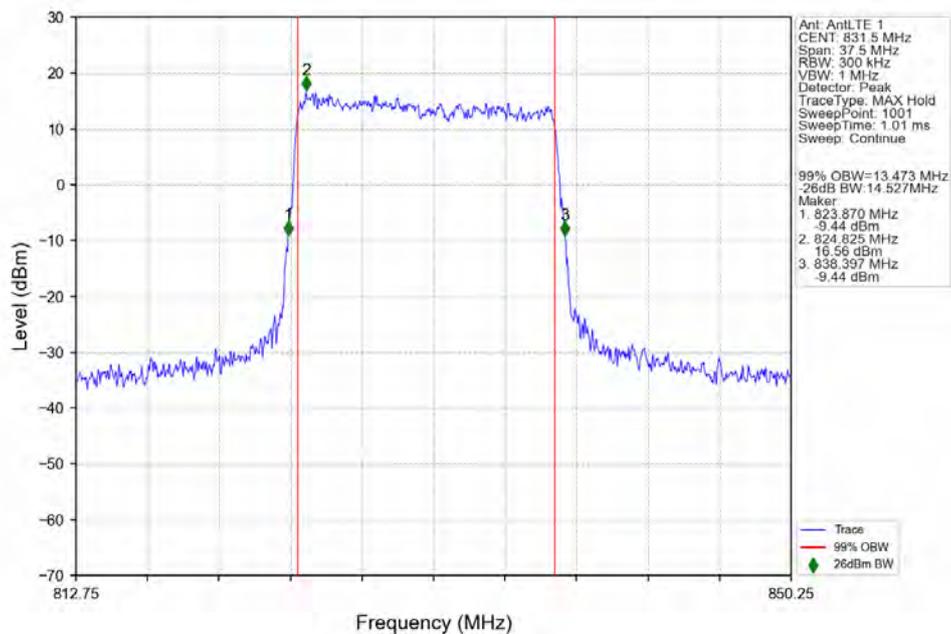
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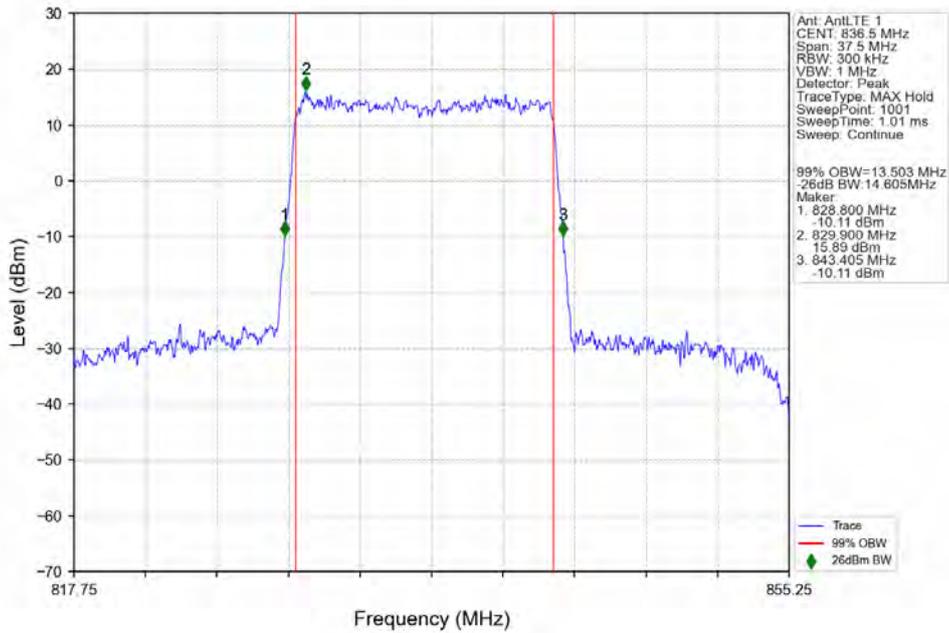
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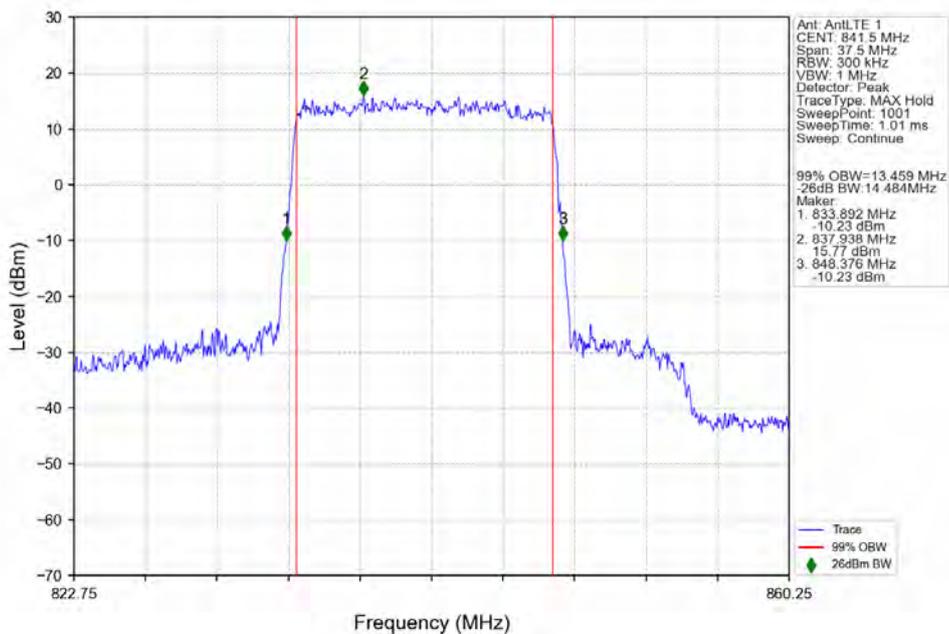
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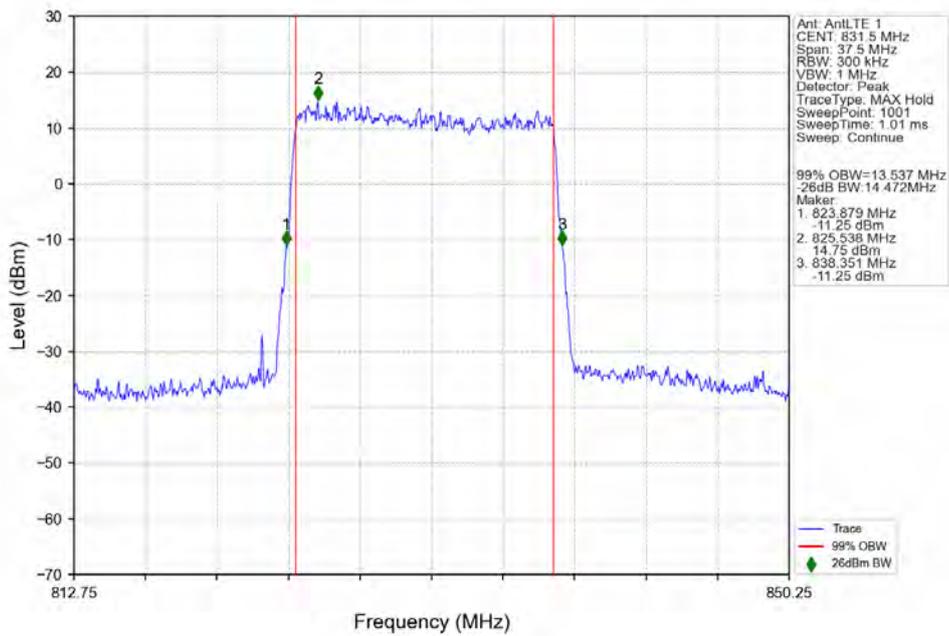
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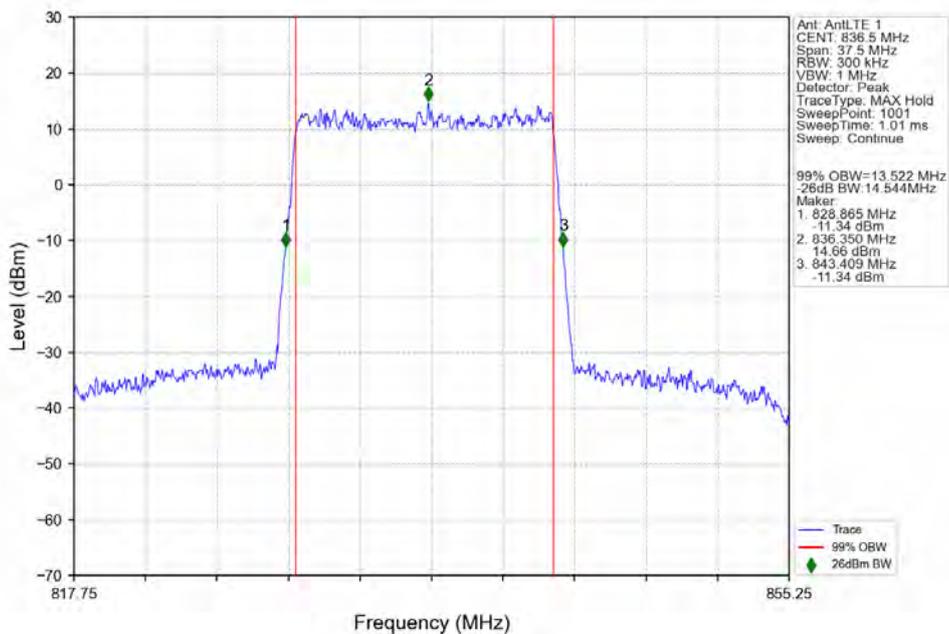
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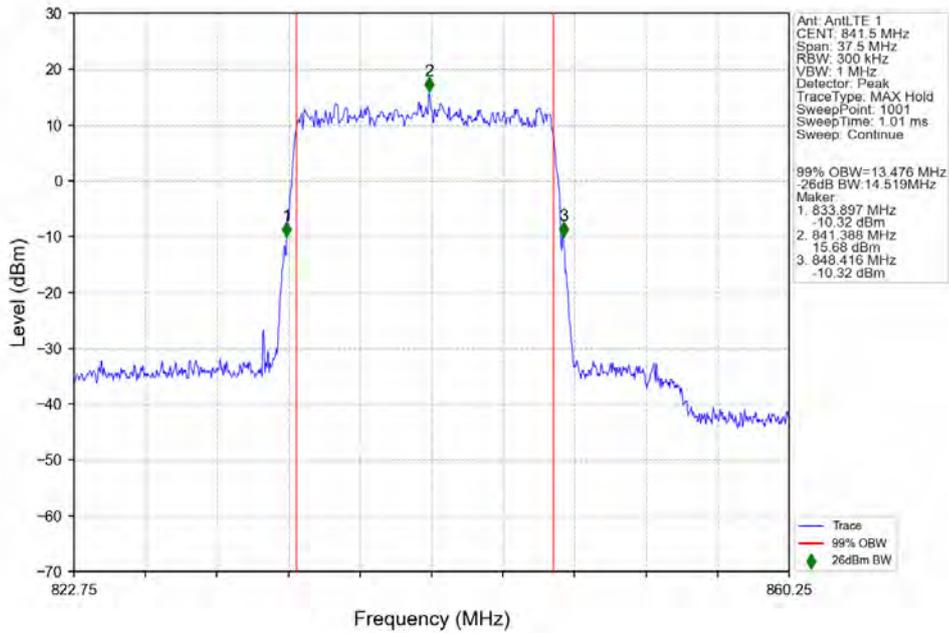
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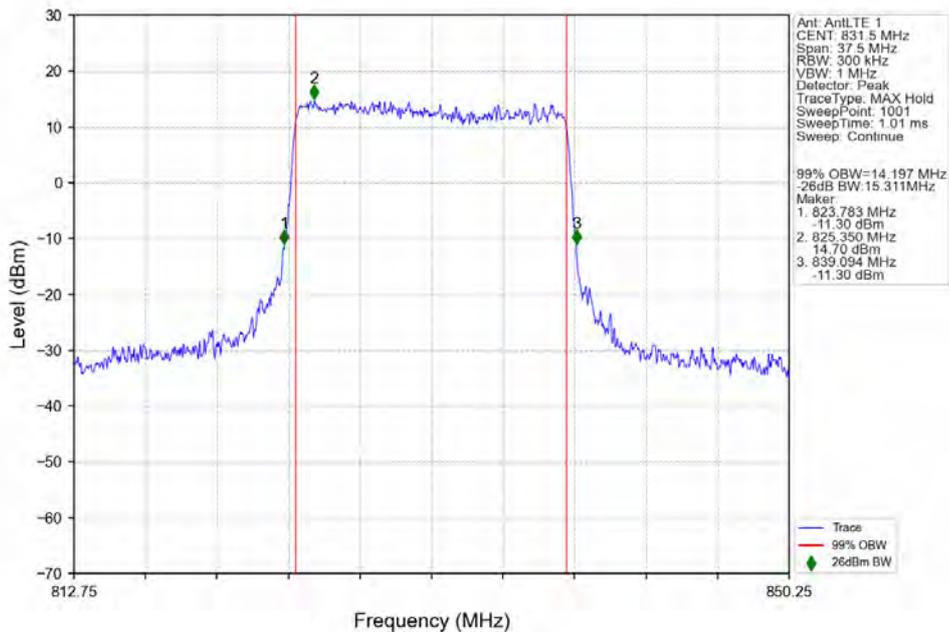
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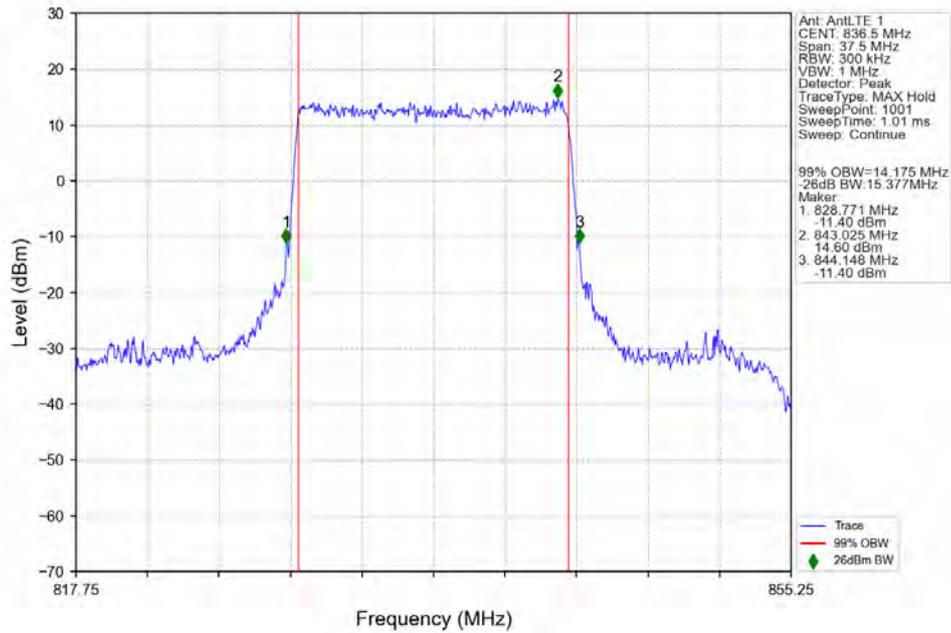
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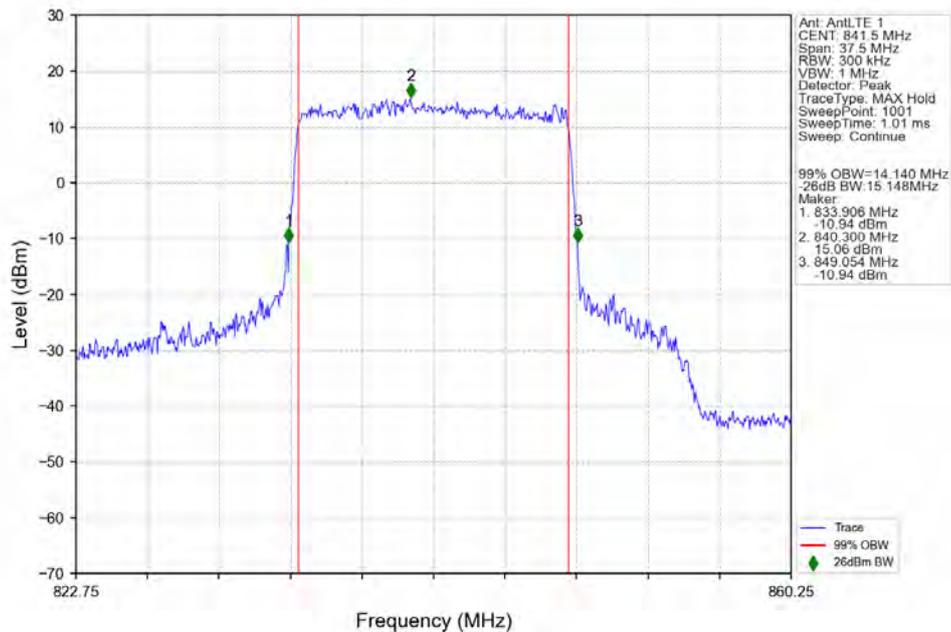
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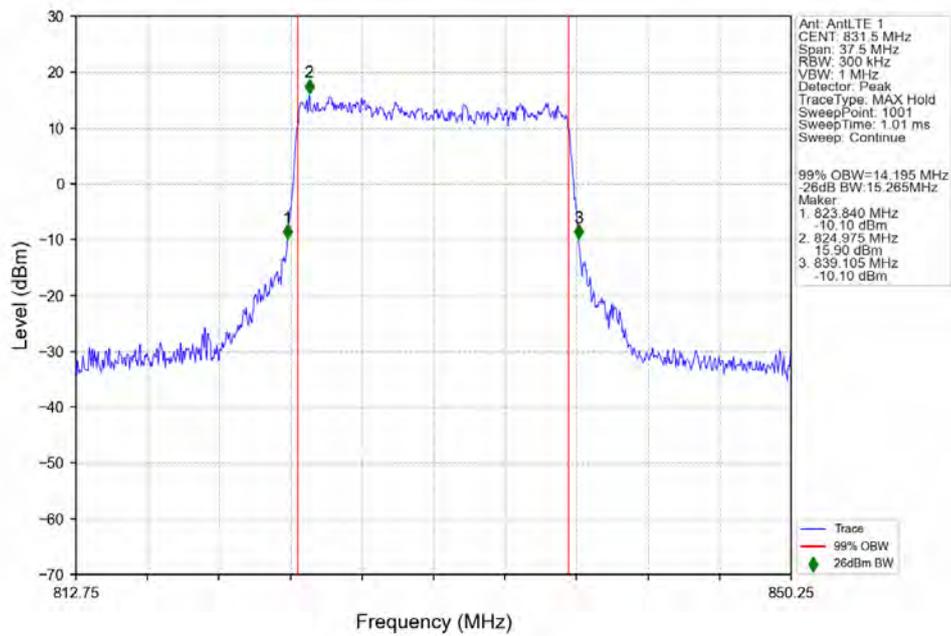
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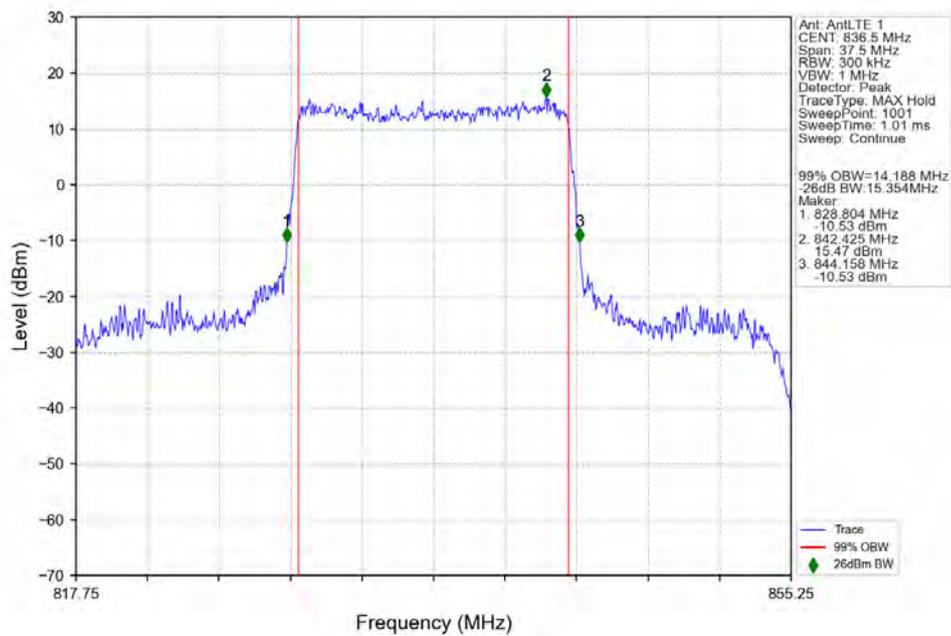
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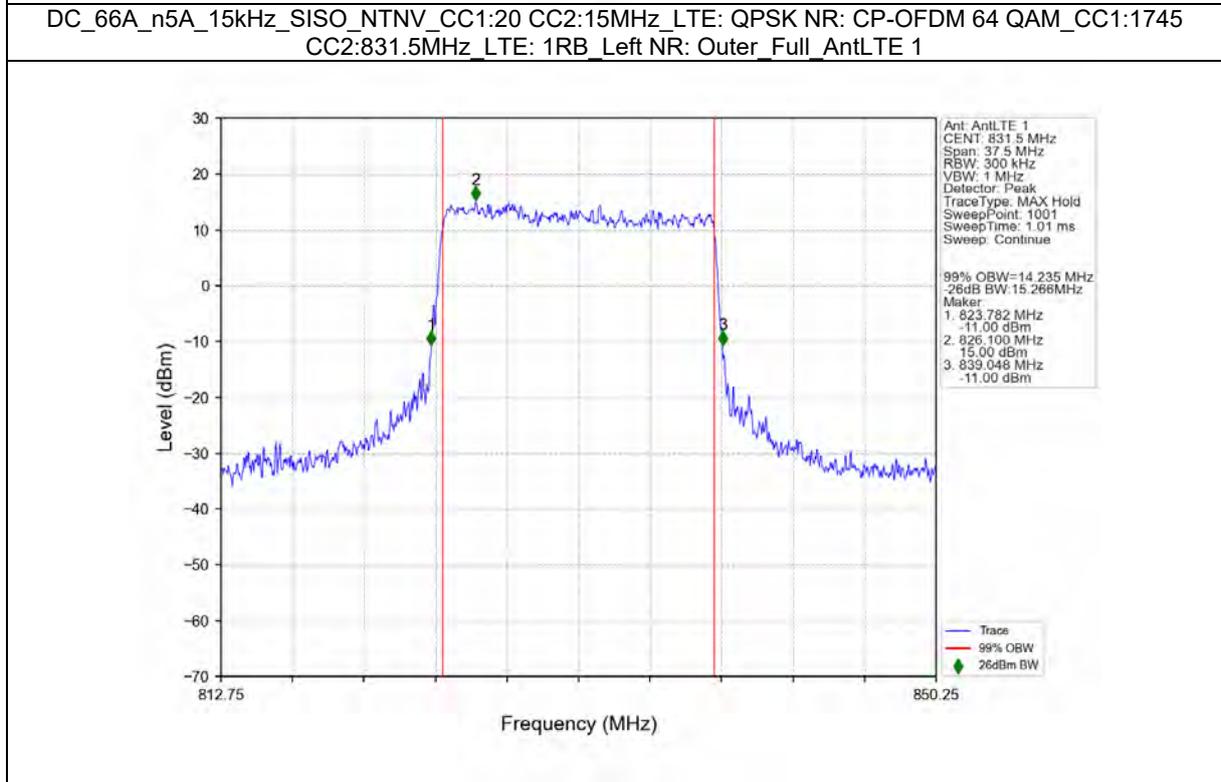
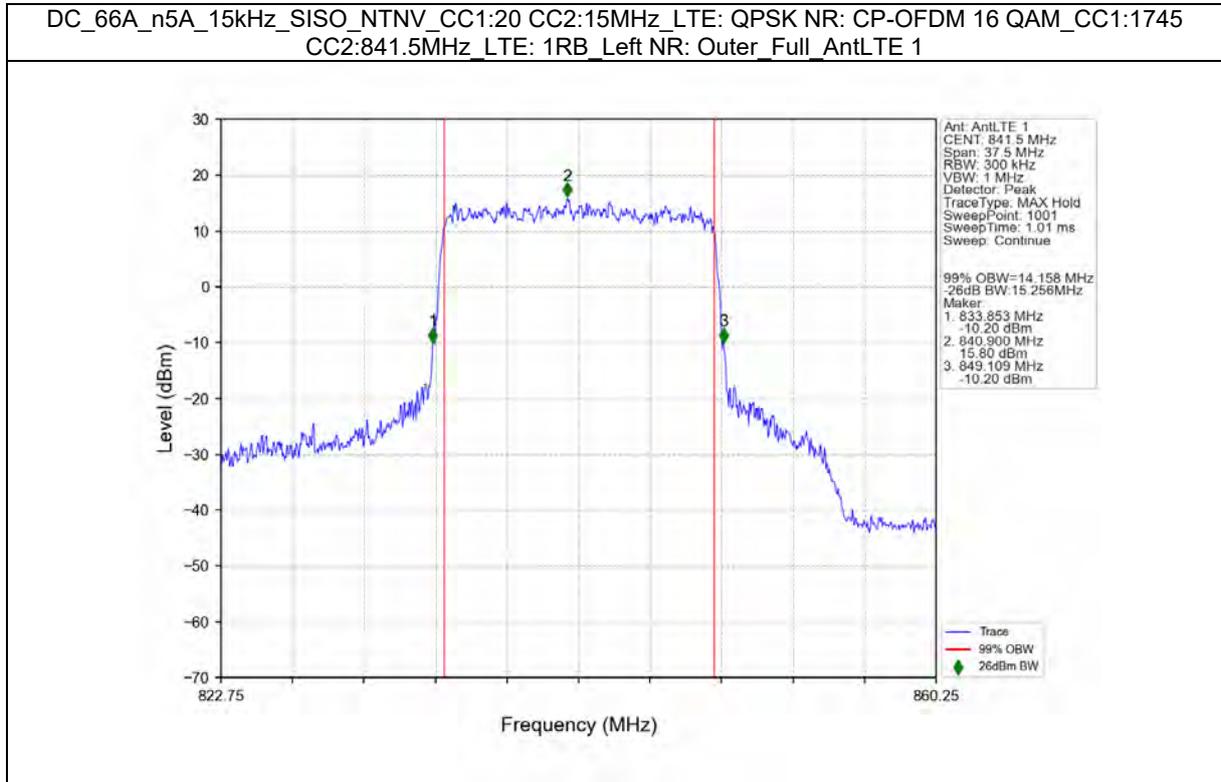


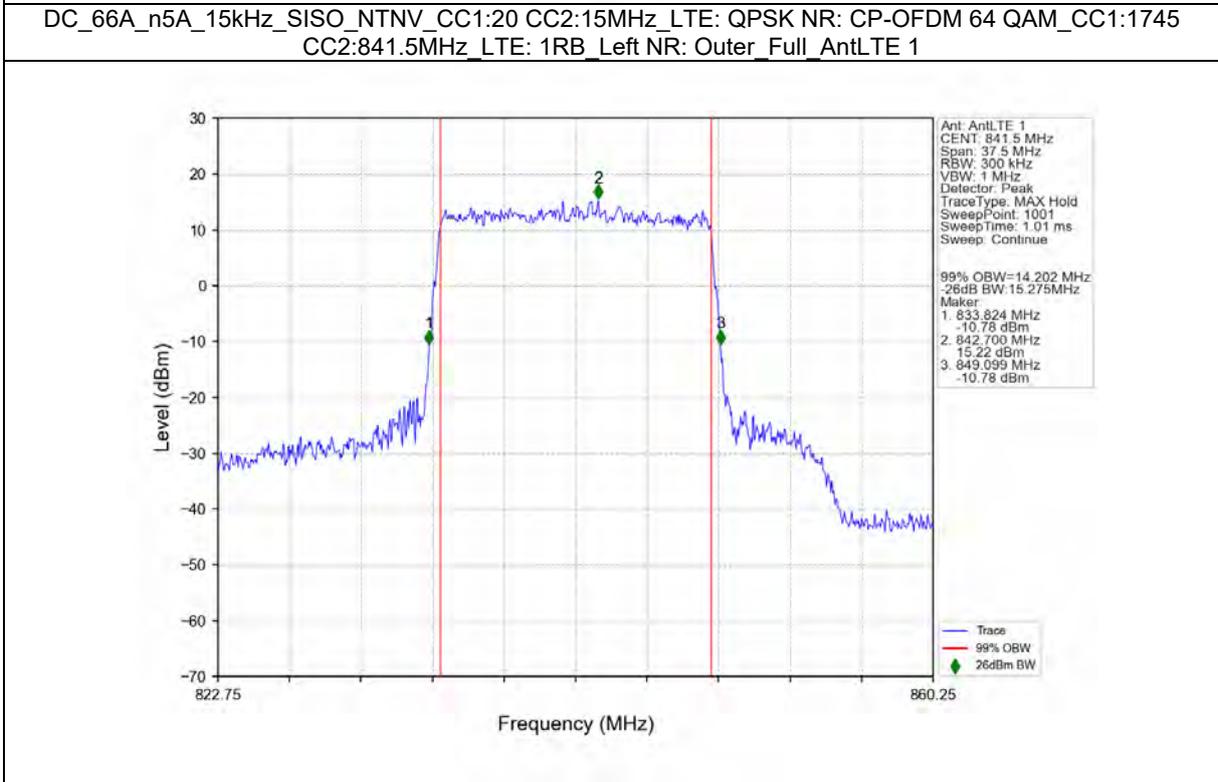
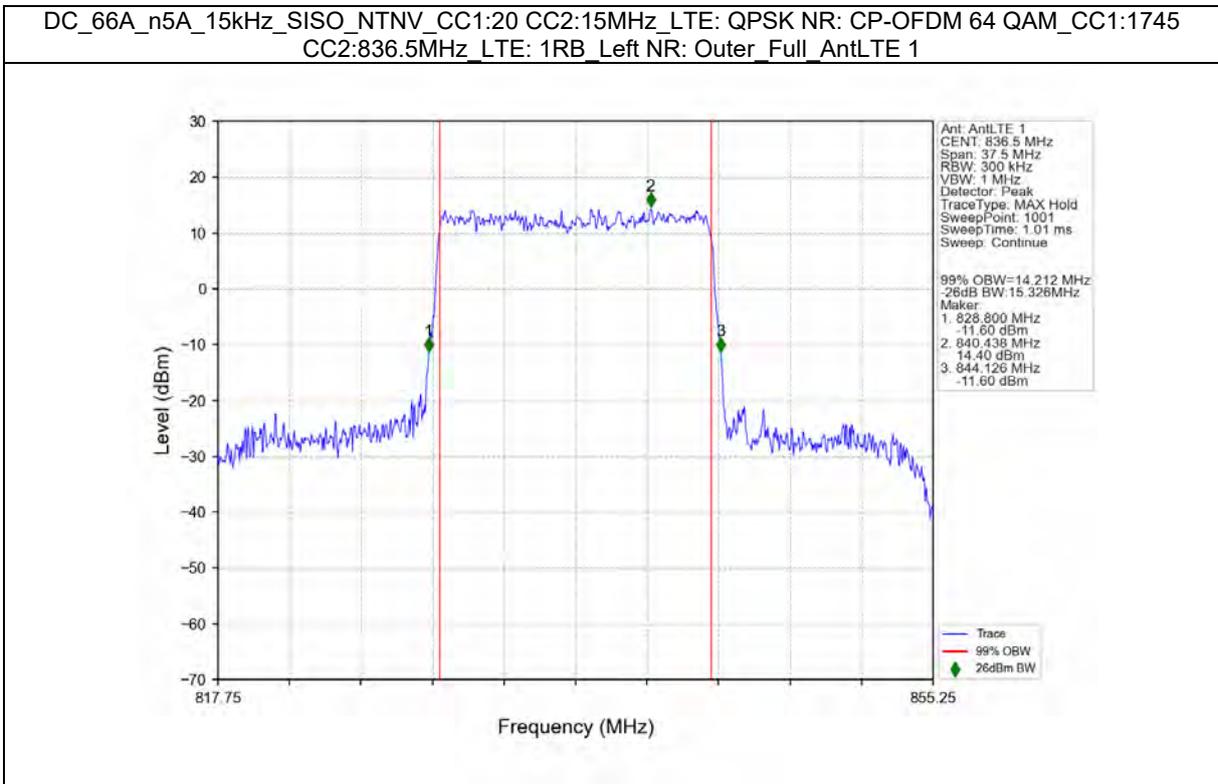
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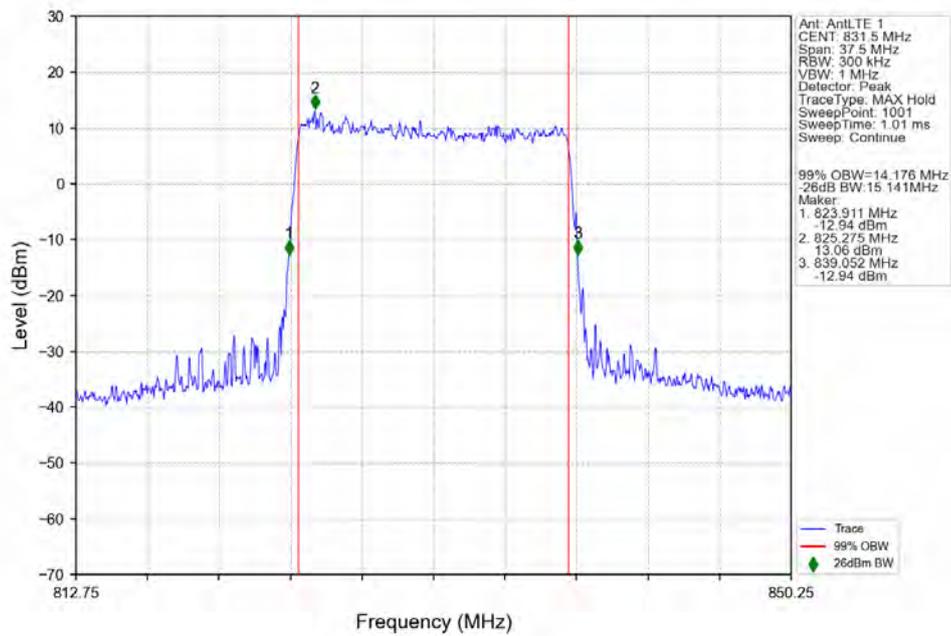
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CC2:836.5MHz_LTE: 1RB_Left_NR: Outer_Full_AntLTE 1



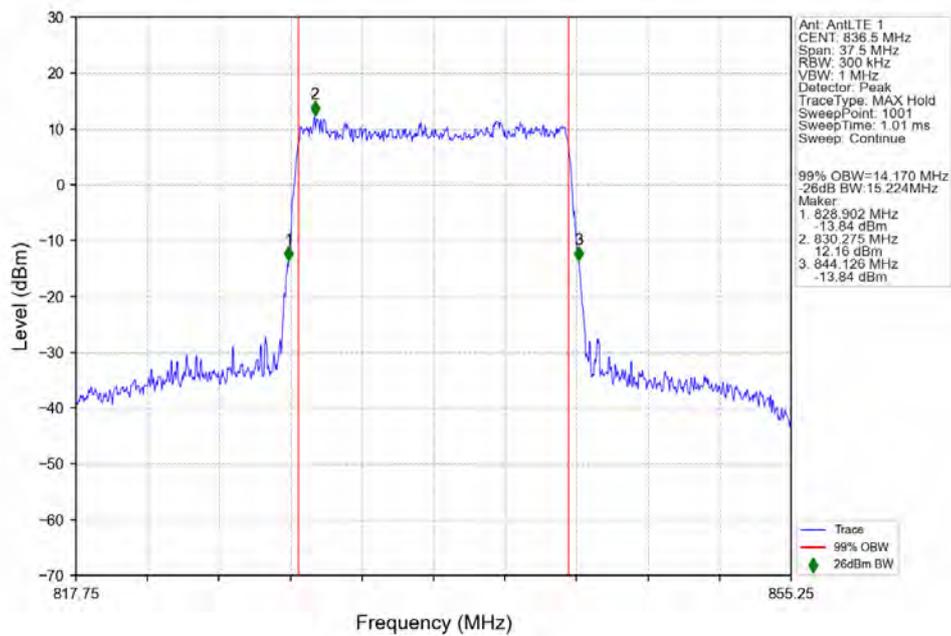




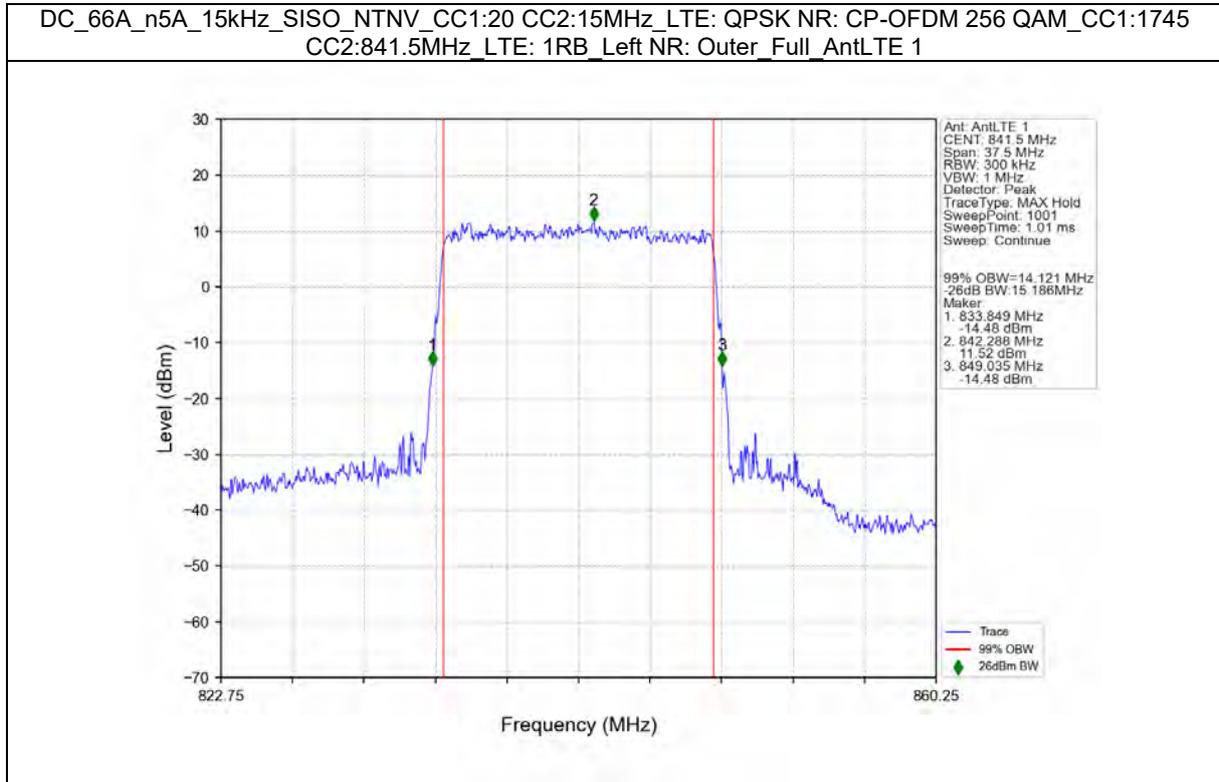
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CC2:831.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:15MHz_LTE: QPSK NR: CP-OFDM 256 QAM_CC1:1745
CC2:836.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1

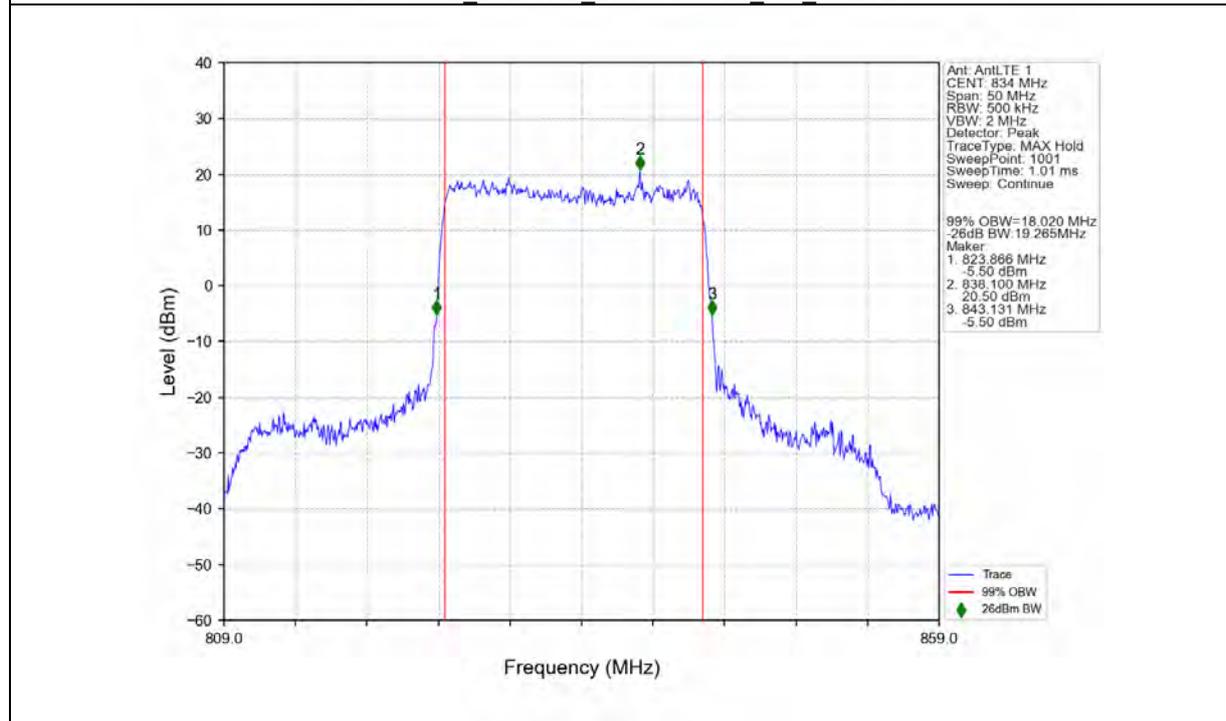


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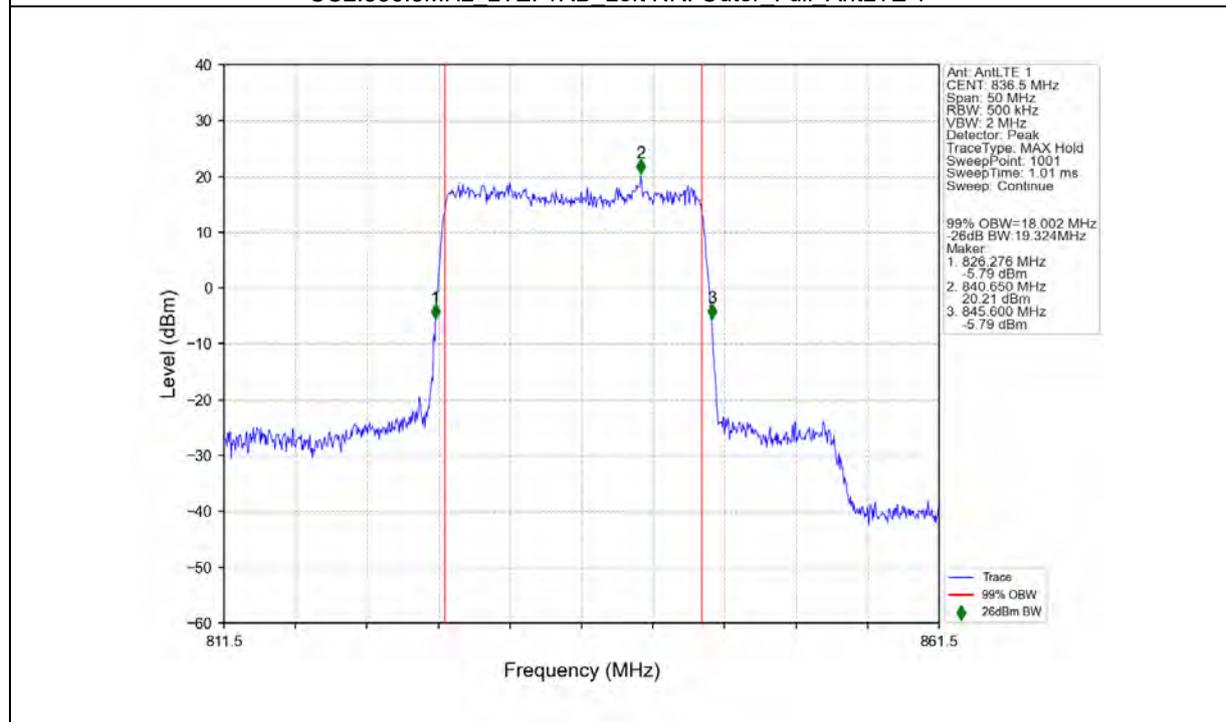


2.2.4 15k_SISO_20MHz_NTNV

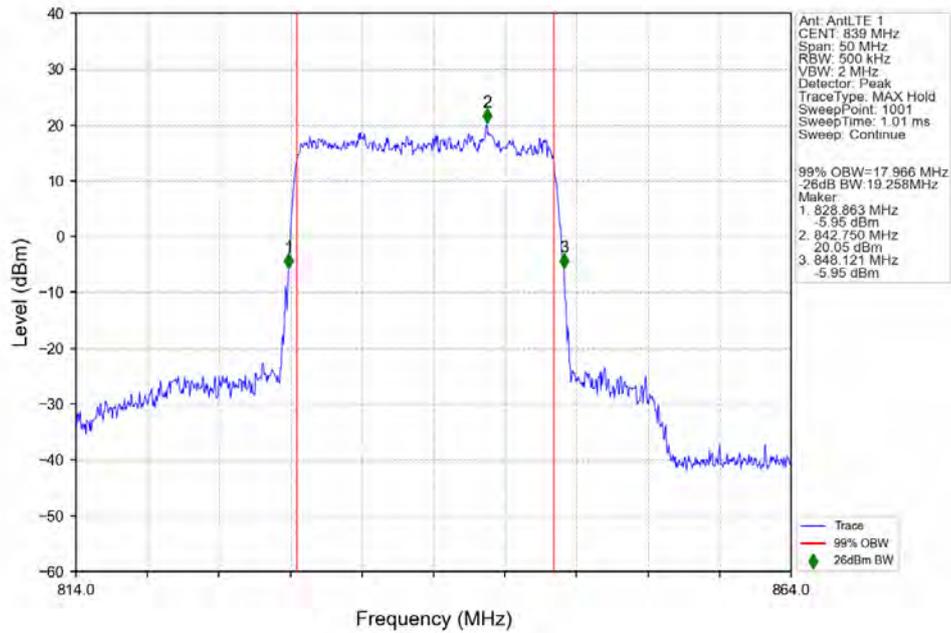
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 CC2:834MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



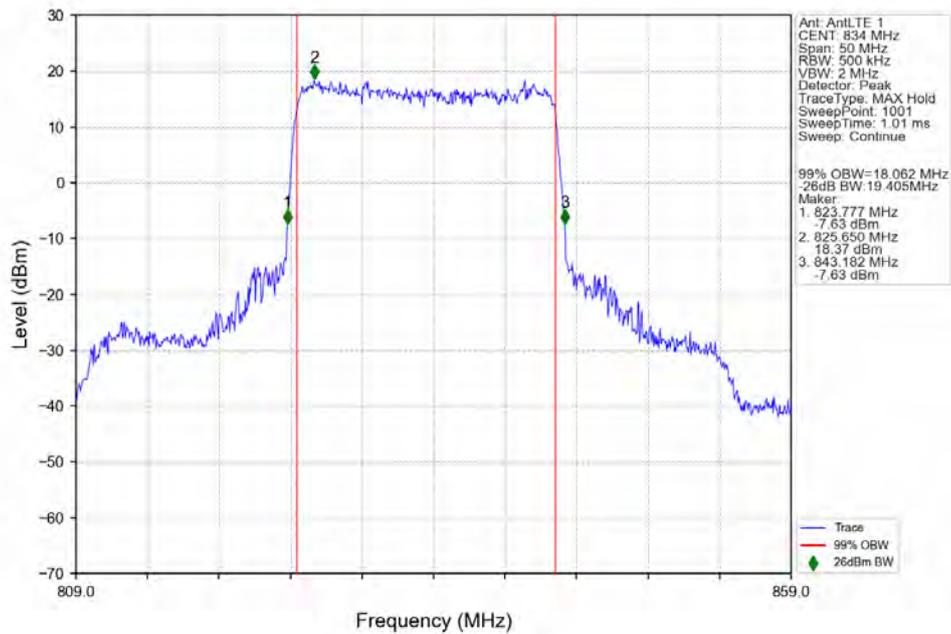
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 CC2:836.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



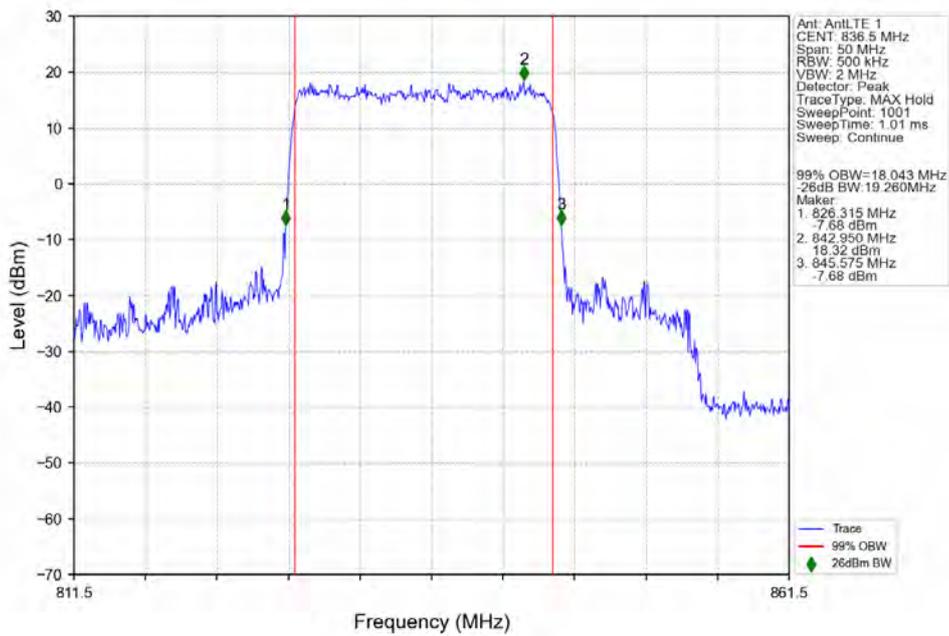
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CC2:839MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



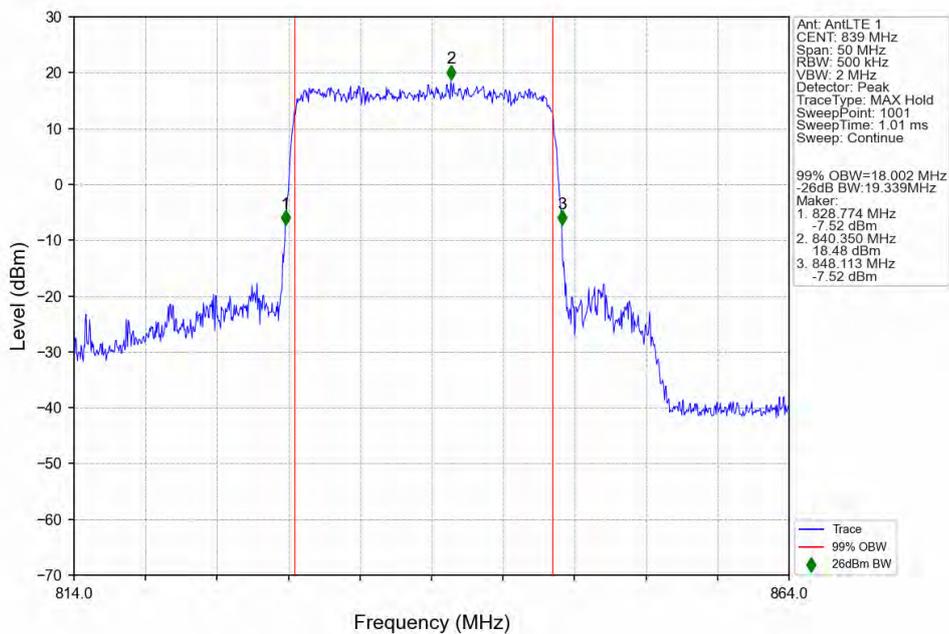
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CC2:834MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



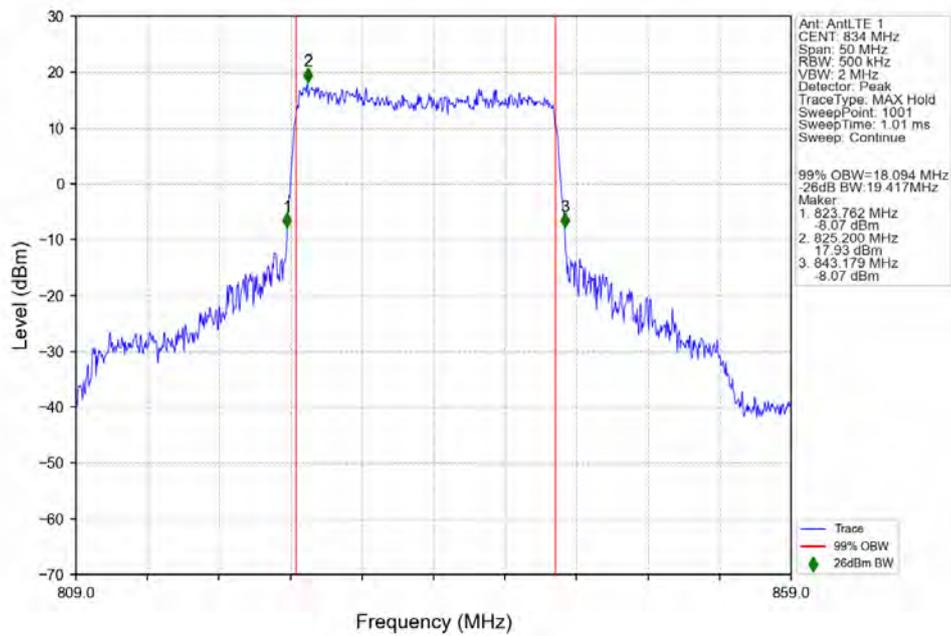
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CC2:836.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



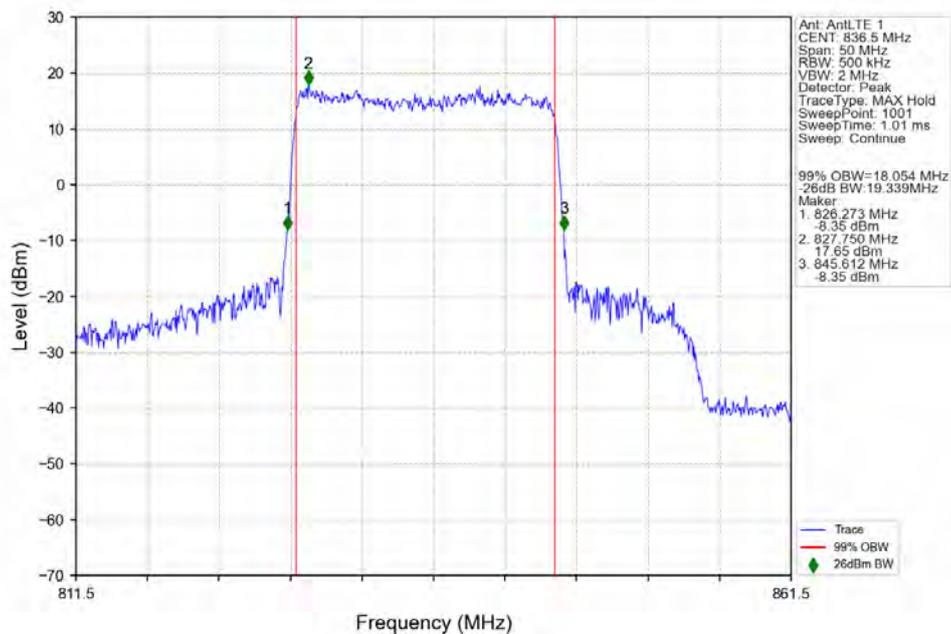
DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:20MHz_LTE: QPSK NR: DFT-s-OFDM QPSK_CC1:1745
CC2:839MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



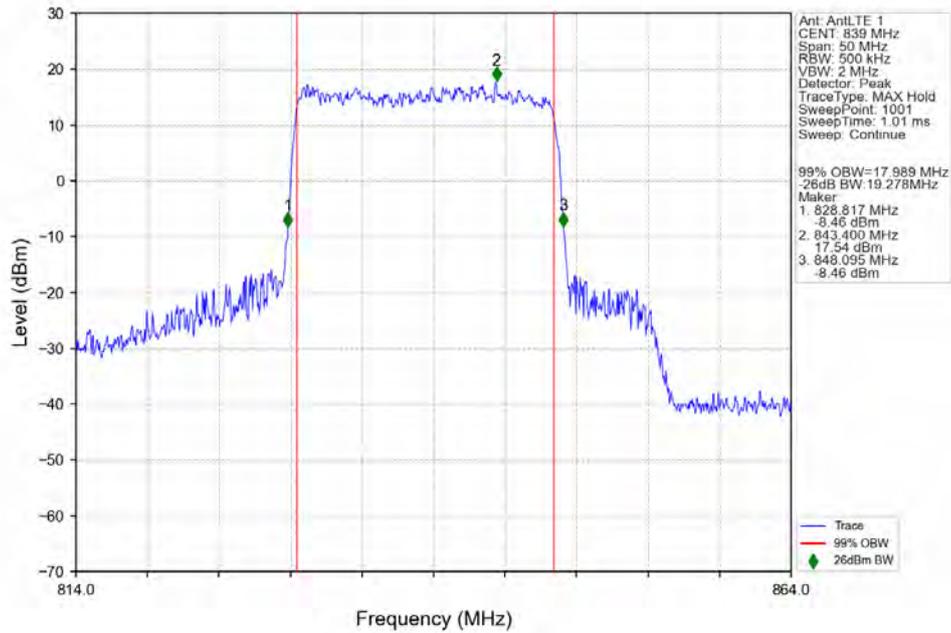
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 CC2:834MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



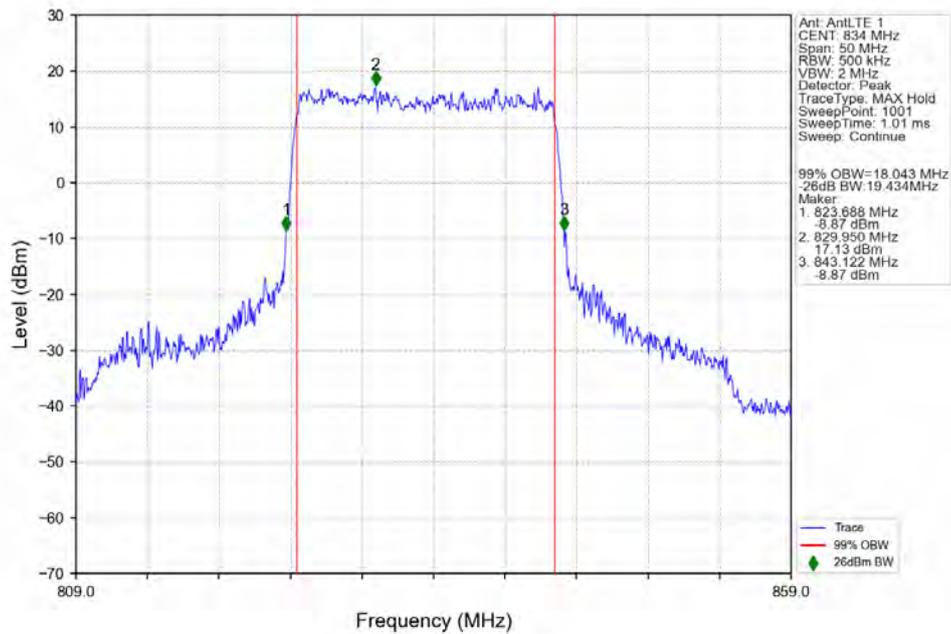
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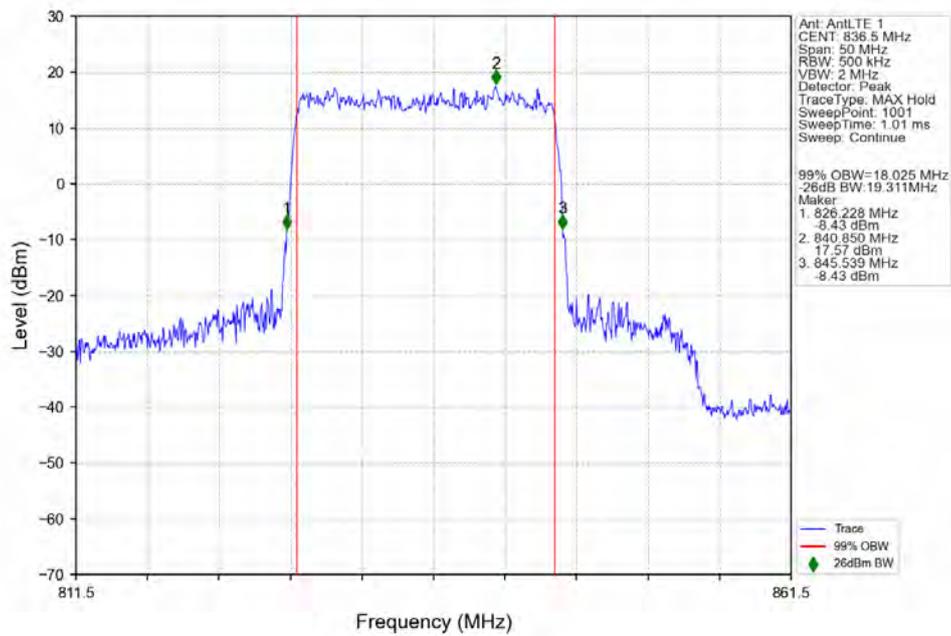
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CC2:839MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



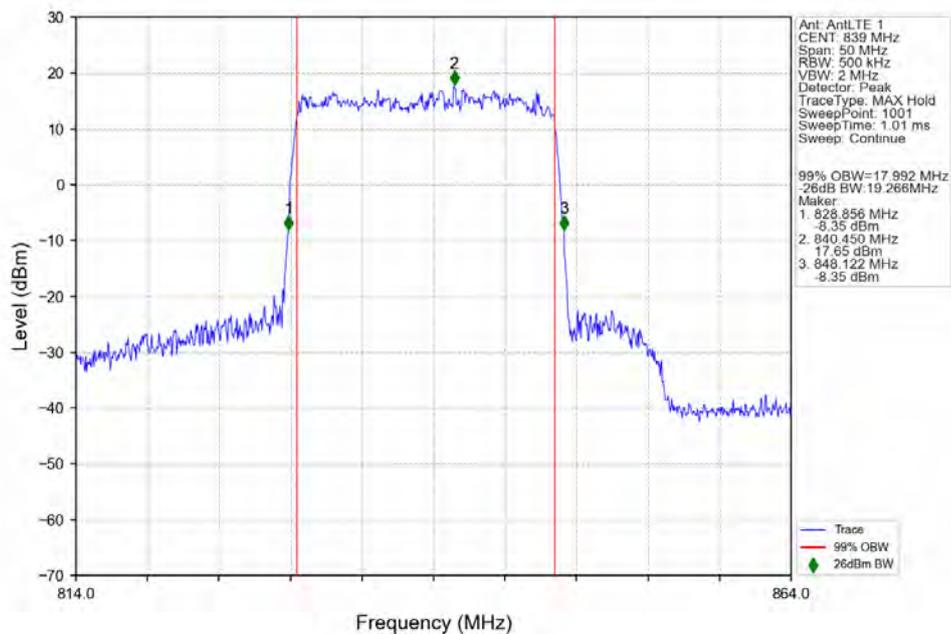
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CC2:834MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:20MHz_LTE: QPSK NR: DFT-s-OFDM 64 QAM_CC1:1745
CC2:836.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:20MHz_LTE: QPSK NR: DFT-s-OFDM 64 QAM_CC1:1745
CC2:839MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1

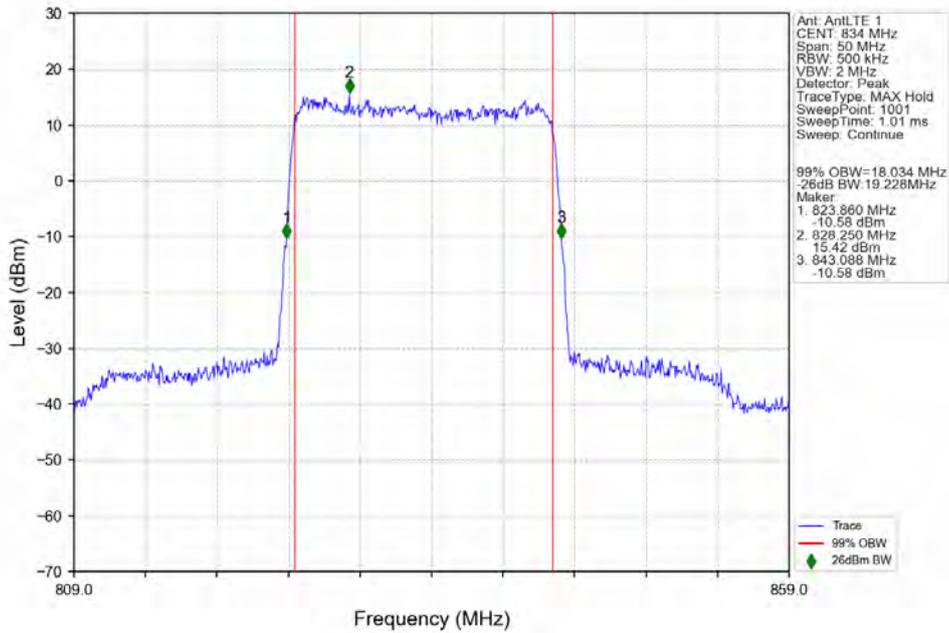




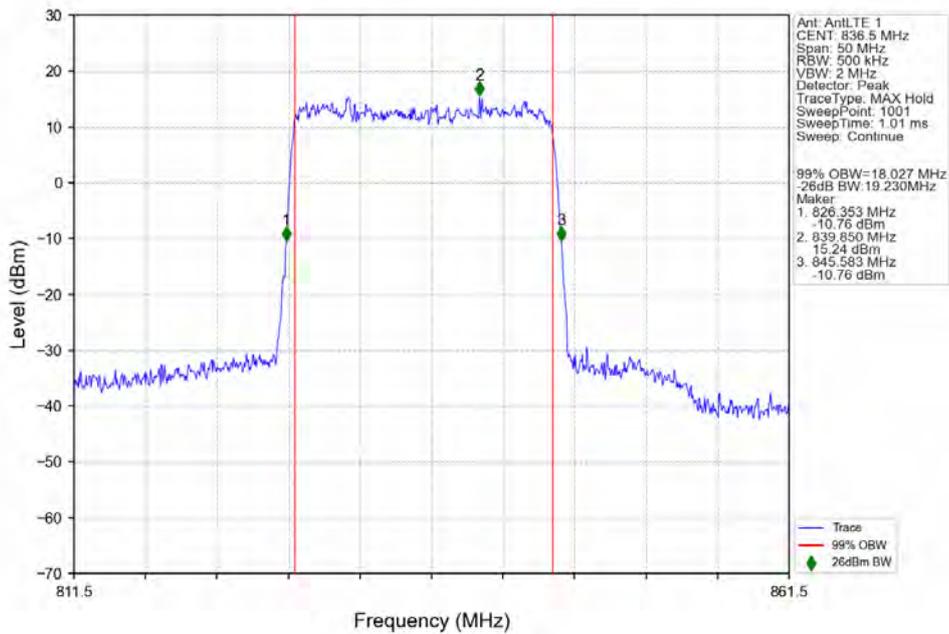
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Test Report No.: PSU-NQN2504150110RF05

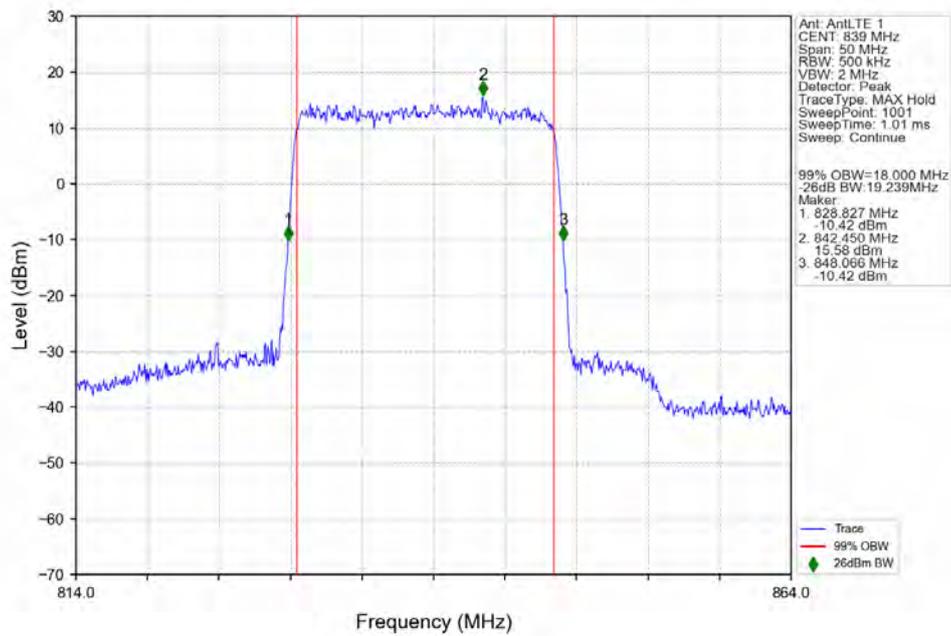
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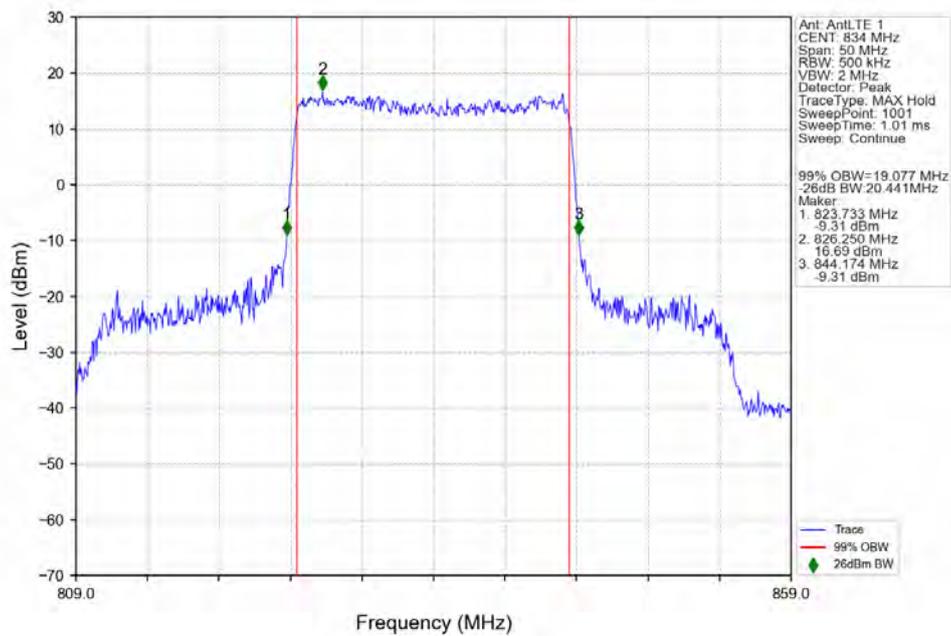
DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:20MHz_LTE: QPSK NR: DFT-s-OFDM 256 QAM_CC1:1745 CC2:836.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



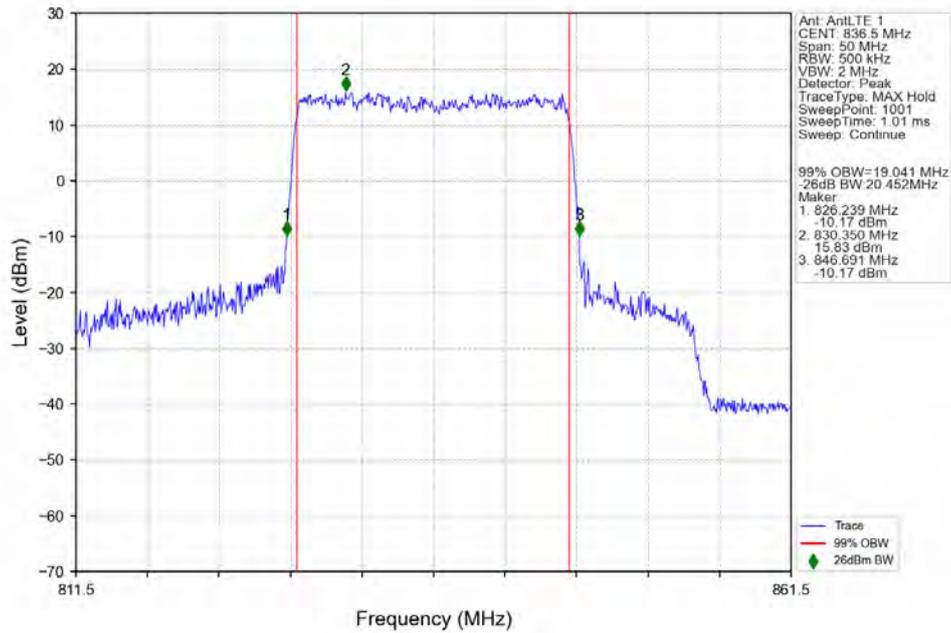
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CC2:839MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



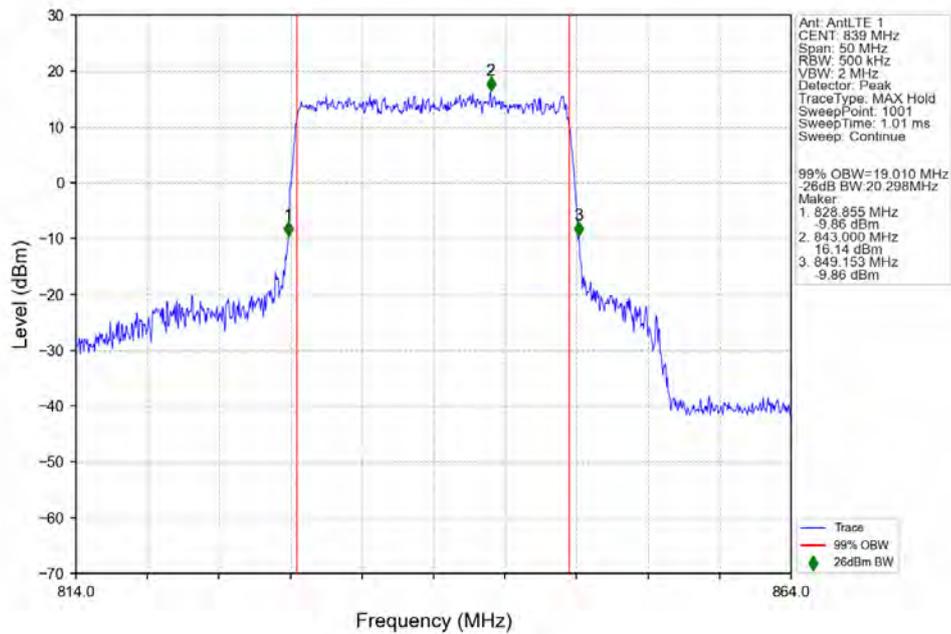
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CC2:834MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



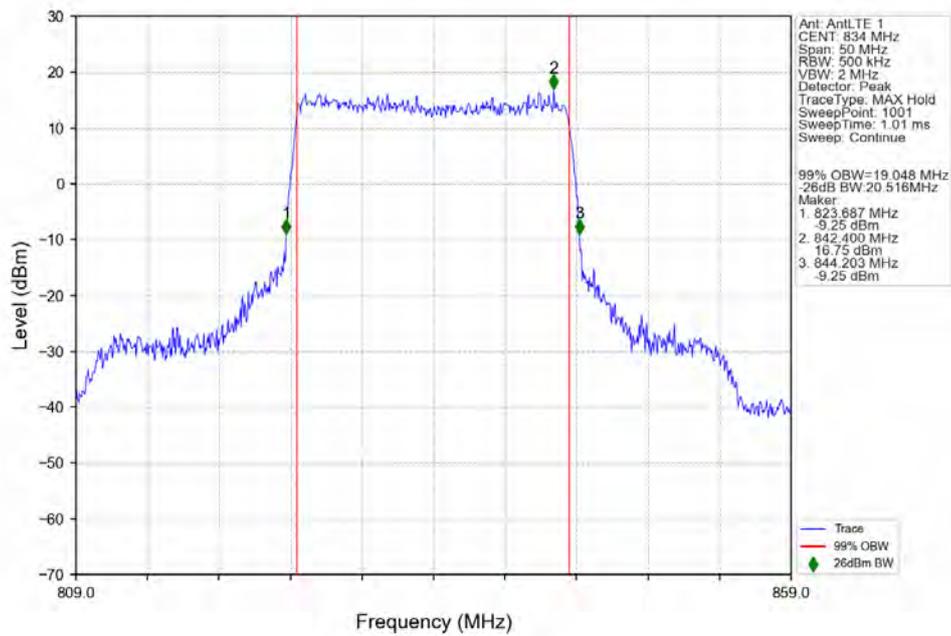
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CC2:836.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



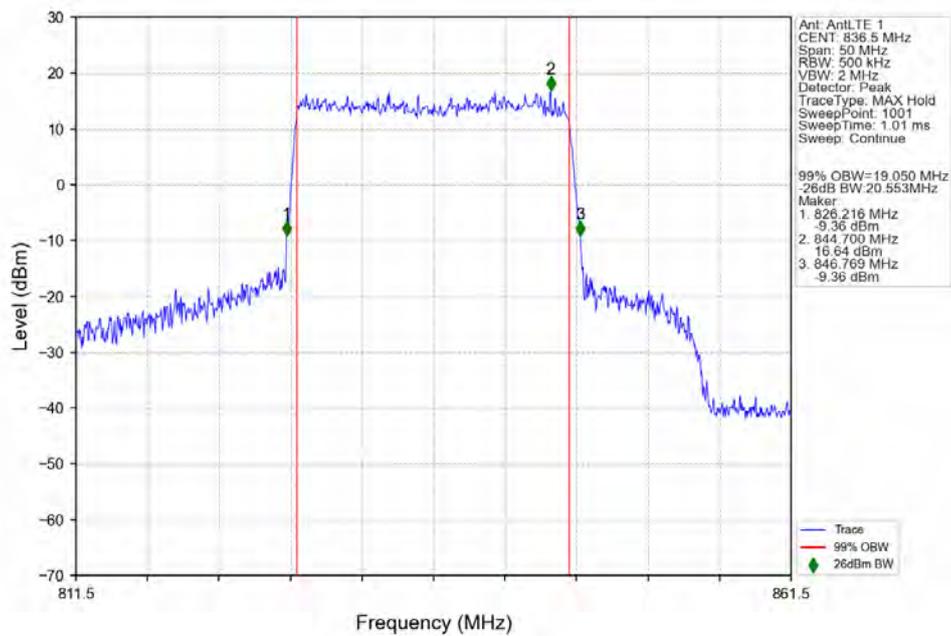
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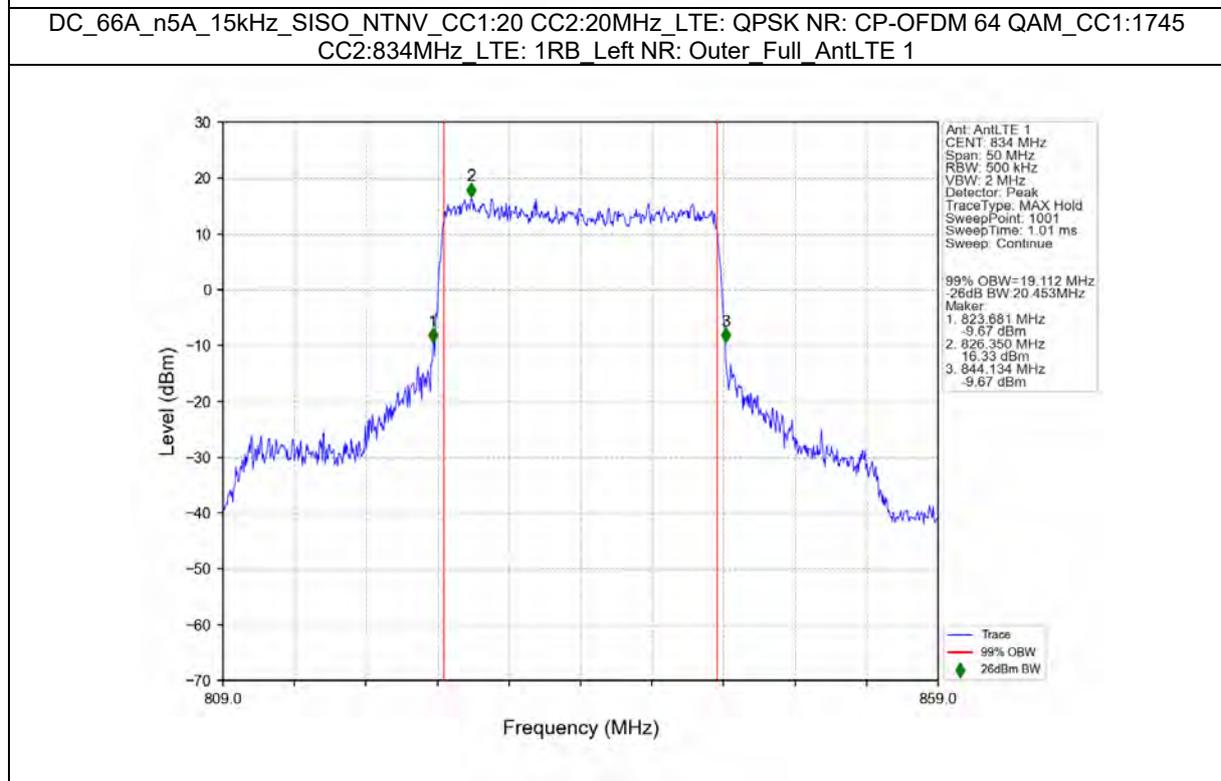
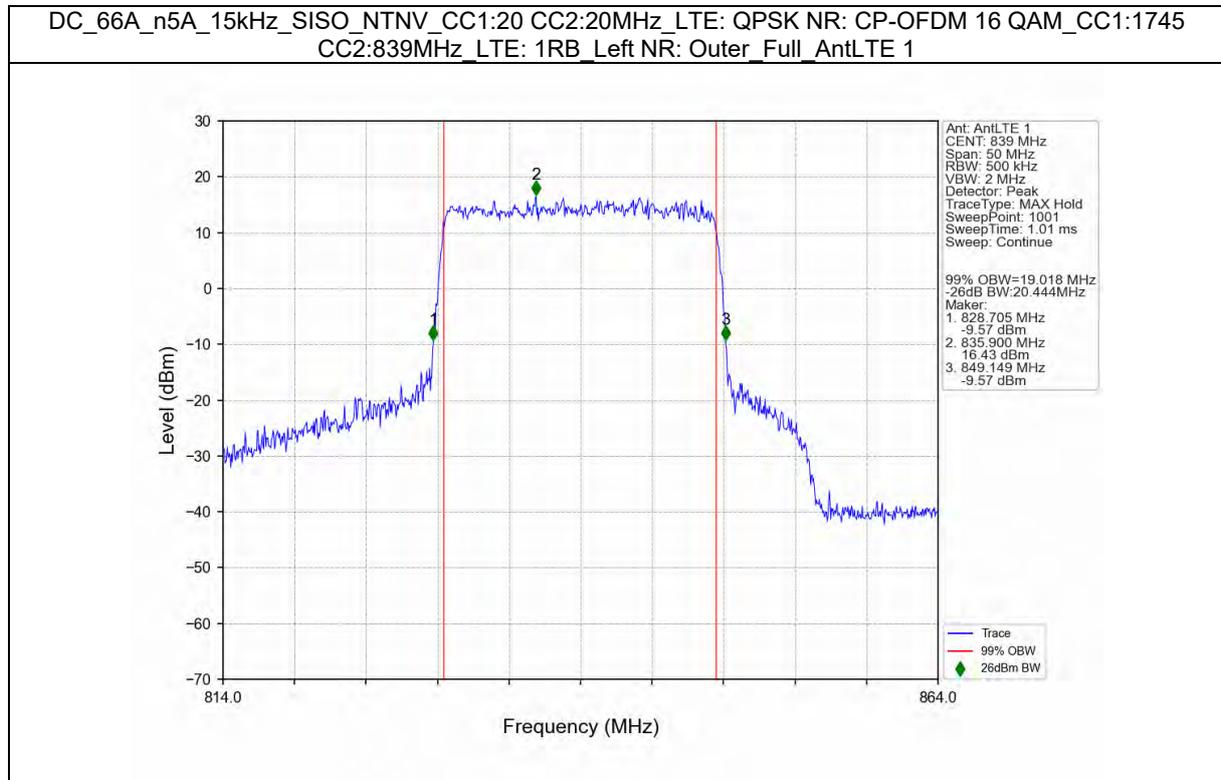


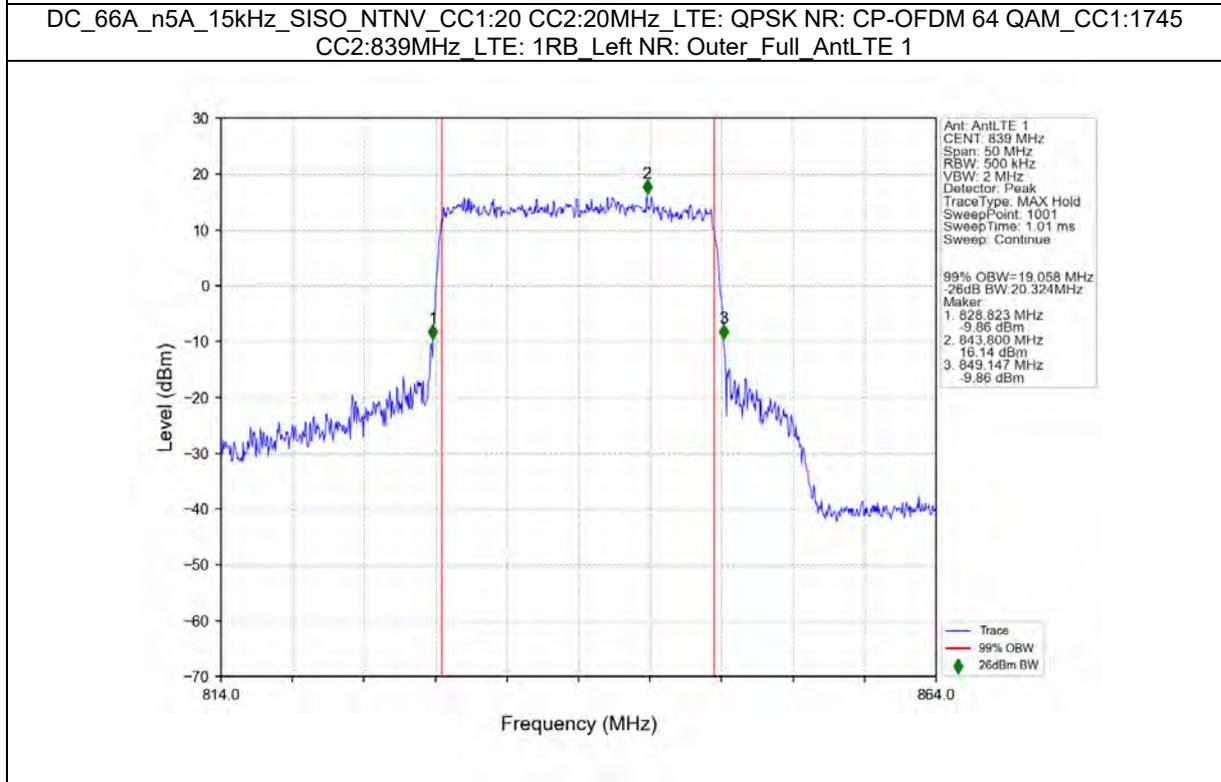
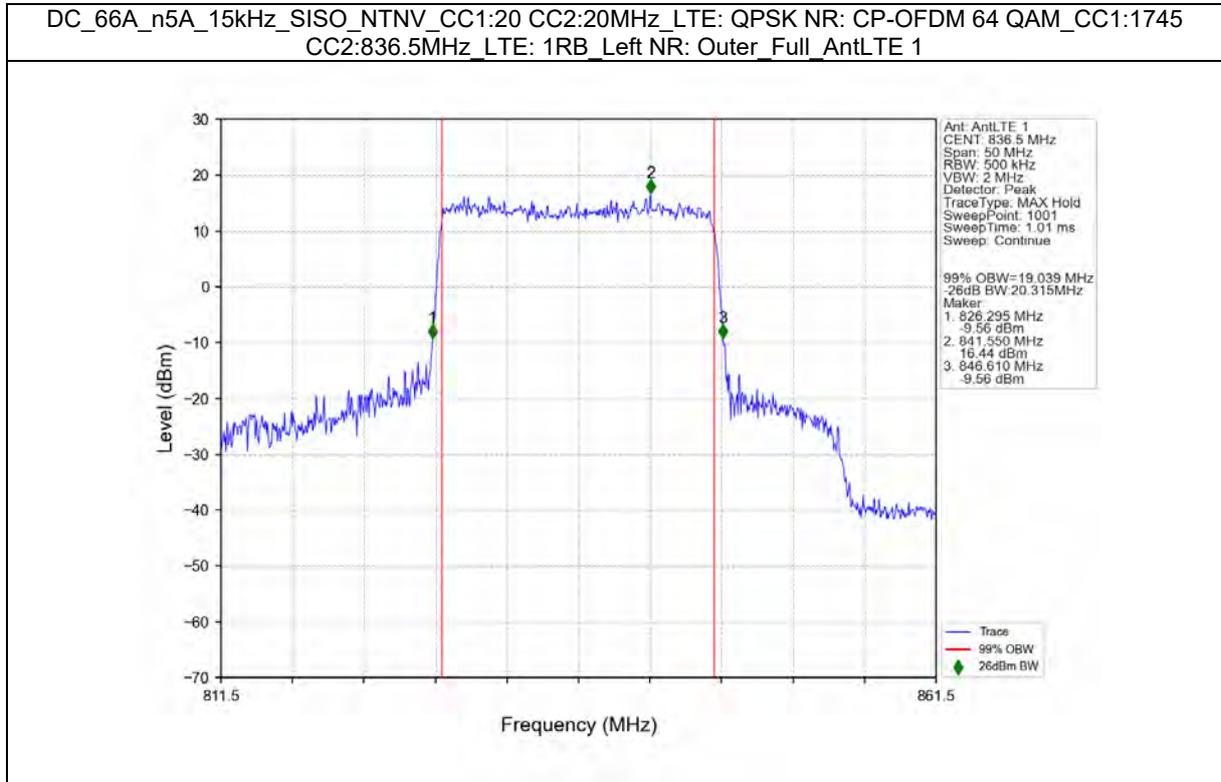
DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:20MHz_LTE: QPSK NR: CP-OFDM 16 QAM_CC1:1745
CC2:834MHz_LTE: 1RB_Left_NR: Outer_Full_AntLTE 1



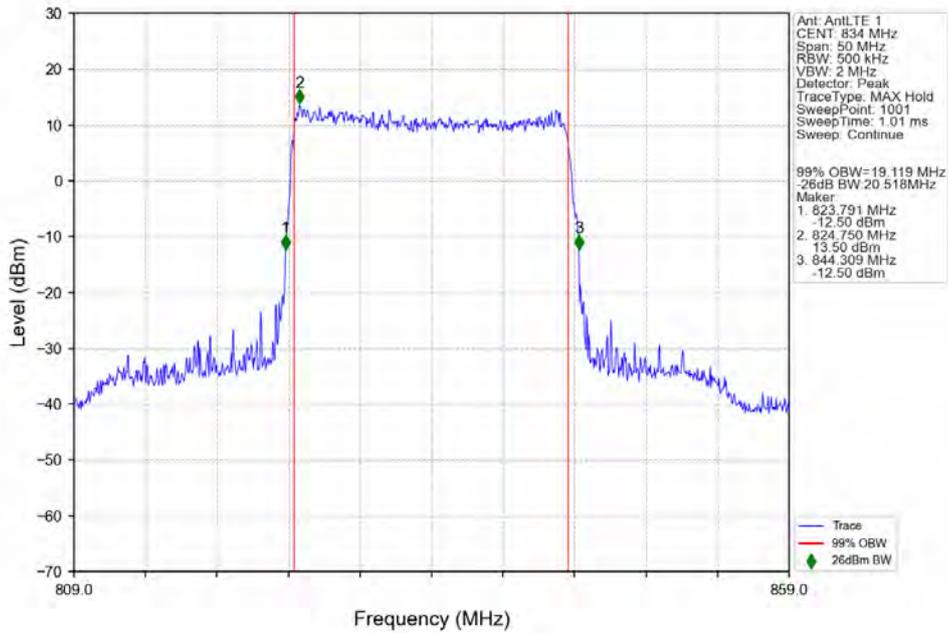
DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:20MHz_LTE: QPSK NR: CP-OFDM 16 QAM_CC1:1745
CC2:836.5MHz_LTE: 1RB_Left_NR: Outer_Full_AntLTE 1



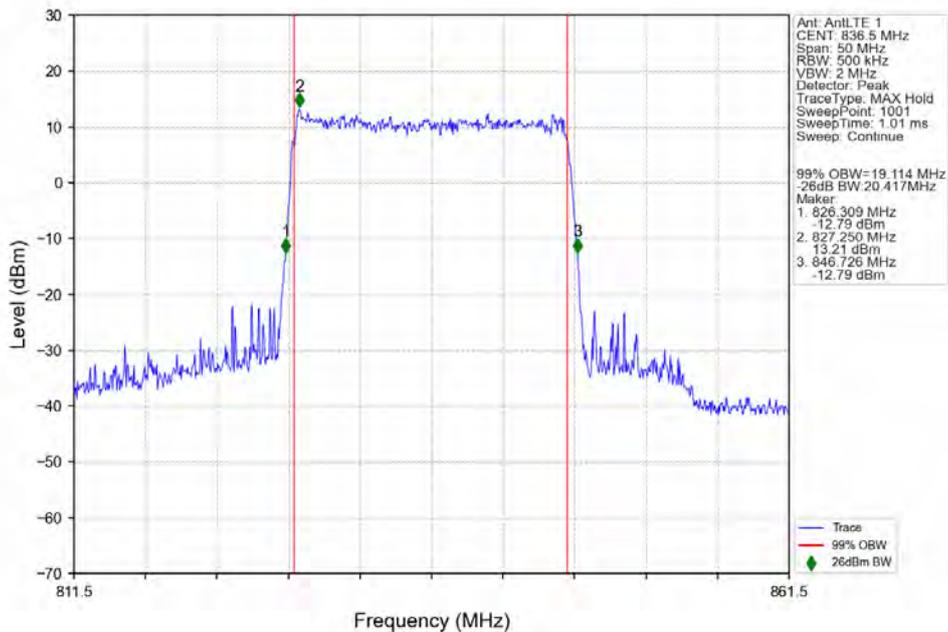




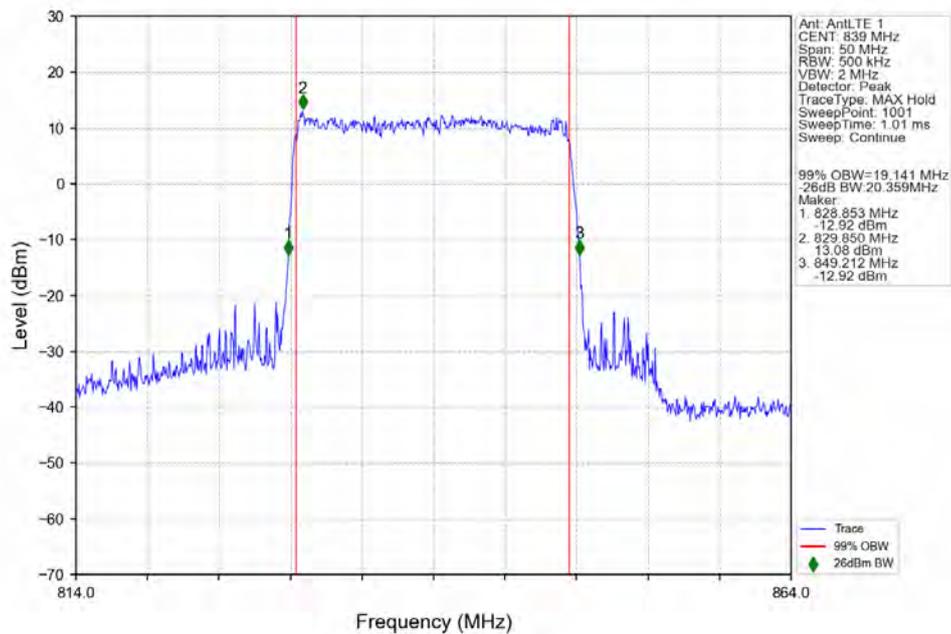
DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:20MHz_LTE: QPSK NR: CP-OFDM 256 QAM_CC1:1745
CC2:834MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:20MHz_LTE: QPSK NR: CP-OFDM 256 QAM_CC1:1745
CC2:836.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:20MHz_LTE: QPSK NR: CP-OFDM 256 QAM_CC1:1745
CC2:839MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



3. Peak-Average Ratio

3.1 Test Result

3.1.1 15k_SISO_5MHz_NTNV

5G NR DC_66A_n5A SCS=15kHz SISO 5MHz NTN								
CC1:66 CC2:n5								
Modulation	BW Combo Set	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
				LTE	NR	Sum	Limit	
LTE: QPSK NR: DFT-s-OFDM PI/2 BPSK	/	CC1:1745 CC2:826.5	LTE: 1RB_Left NR: Outer_Full	4.18	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	4.54	/	/	<=13	Pass
		CC1:1745 CC2:846.5	LTE: 1RB_Left NR: Outer_Full	4.52	/	/	<=13	Pass
LTE: QPSK NR: DFT-s-OFDM QPSK	/	CC1:1745 CC2:826.5	LTE: 1RB_Left NR: Outer_Full	5.02	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	5.88	/	/	<=13	Pass
		CC1:1745 CC2:846.5	LTE: 1RB_Left NR: Outer_Full	5.48	/	/	<=13	Pass
LTE: QPSK NR: DFT-s-OFDM 16 QAM	/	CC1:1745 CC2:826.5	LTE: 1RB_Left NR: Outer_Full	5.88	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	6.48	/	/	<=13	Pass
		CC1:1745 CC2:846.5	LTE: 1RB_Left NR: Outer_Full	6.36	/	/	<=13	Pass
LTE: QPSK NR: DFT-s-OFDM 64 QAM	/	CC1:1745 CC2:826.5	LTE: 1RB_Left NR: Outer_Full	6.32	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	6.78	/	/	<=13	Pass
		CC1:1745 CC2:846.5	LTE: 1RB_Left NR: Outer_Full	6.62	/	/	<=13	Pass
LTE: QPSK NR: DFT-s-OFDM 256 QAM	/	CC1:1745 CC2:826.5	LTE: 1RB_Left NR: Outer_Full	6.52	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	6.64	/	/	<=13	Pass
		CC1:1745 CC2:846.5	LTE: 1RB_Left NR: Outer_Full	6.72	/	/	<=13	Pass
LTE: QPSK NR: CP-OFDM QPSK	/	CC1:1745 CC2:826.5	LTE: 1RB_Left NR: Outer_Full	7.02	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	8.08	/	/	<=13	Pass
		CC1:1745 CC2:846.5	LTE: 1RB_Left NR: Outer_Full	7.68	/	/	<=13	Pass
LTE: QPSK NR: CP-OFDM 16 QAM	/	CC1:1745 CC2:826.5	LTE: 1RB_Left NR: Outer_Full	7.02	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	8.10	/	/	<=13	Pass
		CC1:1745 CC2:846.5	LTE: 1RB_Left NR: Outer_Full	7.62	/	/	<=13	Pass
LTE: QPSK NR: CP-OFDM 64 QAM	/	CC1:1745 CC2:826.5	LTE: 1RB_Left NR: Outer_Full	7.72	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	8.56	/	/	<=13	Pass



		CC1:1745 CC2:846.5	LTE: 1RB_Left NR: Outer_Full	8.12	/	/	<=13	Pass
LTE: QPSK NR: CP-OFDM 256 QAM	/	CC1:1745 CC2:826.5	LTE: 1RB_Left NR: Outer_Full	8.44	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	8.66	/	/	<=13	Pass
		CC1:1745 CC2:846.5	LTE: 1RB_Left NR: Outer_Full	8.62	/	/	<=13	Pass

3.1.2 15k_SISO_10MHz_NTNV

5G NR DC_66A_n5A SCS=15kHz SISO 10MHz NTN								
CC1:66 CC2:n5								
Modulation	BW Combo Set	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
				LTE	NR	Sum	Limit	
LTE: QPSK NR: DFT-s-OFDM PI/2 BPSK	/	CC1:1745 CC2:829	LTE: 1RB_Left NR: Outer_Full	4.18	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	4.54	/	/	<=13	Pass
		CC1:1745 CC2:844	LTE: 1RB_Left NR: Outer_Full	4.40	/	/	<=13	Pass
LTE: QPSK NR: DFT-s-OFDM QPSK	/	CC1:1745 CC2:829	LTE: 1RB_Left NR: Outer_Full	4.72	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	5.48	/	/	<=13	Pass
		CC1:1745 CC2:844	LTE: 1RB_Left NR: Outer_Full	5.30	/	/	<=13	Pass
LTE: QPSK NR: DFT-s-OFDM 16 QAM	/	CC1:1745 CC2:829	LTE: 1RB_Left NR: Outer_Full	5.64	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	6.42	/	/	<=13	Pass
		CC1:1745 CC2:844	LTE: 1RB_Left NR: Outer_Full	6.22	/	/	<=13	Pass
LTE: QPSK NR: DFT-s-OFDM 64 QAM	/	CC1:1745 CC2:829	LTE: 1RB_Left NR: Outer_Full	6.04	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	6.52	/	/	<=13	Pass
		CC1:1745 CC2:844	LTE: 1RB_Left NR: Outer_Full	6.28	/	/	<=13	Pass
LTE: QPSK NR: DFT-s-OFDM 256 QAM	/	CC1:1745 CC2:829	LTE: 1RB_Left NR: Outer_Full	6.62	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	6.76	/	/	<=13	Pass
		CC1:1745 CC2:844	LTE: 1RB_Left NR: Outer_Full	6.58	/	/	<=13	Pass
LTE: QPSK NR: CP-OFDM QPSK	/	CC1:1745 CC2:829	LTE: 1RB_Left NR: Outer_Full	6.78	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	8.02	/	/	<=13	Pass
		CC1:1745 CC2:844	LTE: 1RB_Left NR: Outer_Full	7.70	/	/	<=13	Pass
LTE: QPSK NR: CP-OFDM 16 QAM	/	CC1:1745 CC2:829	LTE: 1RB_Left NR: Outer_Full	6.76	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	8.04	/	/	<=13	Pass
		CC1:1745 CC2:844	LTE: 1RB_Left NR: Outer_Full	7.66	/	/	<=13	Pass
LTE: QPSK NR: CP-OFDM 64 QAM	/	CC1:1745 CC2:829	LTE: 1RB_Left NR: Outer_Full	7.38	/	/	<=13	Pass
		CC1:1745	LTE: 1RB_Left	8.38	/	/	<=13	Pass



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		CC2:836.5	NR: Outer_Full					
		CC1:1745 CC2:844	LTE: 1RB_Left NR: Outer_Full	8.08	/	/	<=13	Pass
LTE: QPSK NR: CP-OFDM 256 QAM	/	CC1:1745 CC2:829	LTE: 1RB_Left NR: Outer_Full	8.58	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	8.74	/	/	<=13	Pass
		CC1:1745 CC2:844	LTE: 1RB_Left NR: Outer_Full	8.60	/	/	<=13	Pass

3.1.3 15k_SISO_15MHz_NTNV

5G NR DC_66A_n5A SCS=15kHz SISO 15MHz NTN CC1:66 CC2:n5								
Modulation	BW Combo Set	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
				LTE	NR	Sum	Limit	
LTE: QPSK NR: DFT-s-OFDM PI/2 BPSK	/	CC1:1745 CC2:831.5	LTE: 1RB_Left NR: Outer_Full	4.10	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	4.40	/	/	<=13	Pass
		CC1:1745 CC2:841.5	LTE: 1RB_Left NR: Outer_Full	4.30	/	/	<=13	Pass
LTE: QPSK NR: DFT-s-OFDM QPSK	/	CC1:1745 CC2:831.5	LTE: 1RB_Left NR: Outer_Full	4.62	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	5.44	/	/	<=13	Pass
		CC1:1745 CC2:841.5	LTE: 1RB_Left NR: Outer_Full	5.36	/	/	<=13	Pass
LTE: QPSK NR: DFT-s-OFDM 16 QAM	/	CC1:1745 CC2:831.5	LTE: 1RB_Left NR: Outer_Full	5.50	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	6.24	/	/	<=13	Pass
		CC1:1745 CC2:841.5	LTE: 1RB_Left NR: Outer_Full	6.14	/	/	<=13	Pass
LTE: QPSK NR: DFT-s-OFDM 64 QAM	/	CC1:1745 CC2:831.5	LTE: 1RB_Left NR: Outer_Full	5.96	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	5.98	/	/	<=13	Pass
		CC1:1745 CC2:841.5	LTE: 1RB_Left NR: Outer_Full	6.36	/	/	<=13	Pass
LTE: QPSK NR: DFT-s-OFDM 256 QAM	/	CC1:1745 CC2:831.5	LTE: 1RB_Left NR: Outer_Full	6.82	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	6.76	/	/	<=13	Pass
		CC1:1745 CC2:841.5	LTE: 1RB_Left NR: Outer_Full	6.68	/	/	<=13	Pass
LTE: QPSK NR: CP-OFDM QPSK	/	CC1:1745 CC2:831.5	LTE: 1RB_Left NR: Outer_Full	6.78	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	6.80	/	/	<=13	Pass
		CC1:1745 CC2:841.5	LTE: 1RB_Left NR: Outer_Full	7.74	/	/	<=13	Pass
LTE: QPSK NR: CP-OFDM 16 QAM	/	CC1:1745 CC2:831.5	LTE: 1RB_Left NR: Outer_Full	6.78	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	7.88	/	/	<=13	Pass
		CC1:1745 CC2:841.5	LTE: 1RB_Left NR: Outer_Full	7.80	/	/	<=13	Pass
LTE: QPSK NR: CP-OFDM 64 QAM	/	CC1:1745 CC2:831.5	LTE: 1RB_Left NR: Outer_Full	7.30	/	/	<=13	Pass



		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	7.34	/	/	<=13	Pass
		CC1:1745 CC2:841.5	LTE: 1RB_Left NR: Outer_Full	8.10	/	/	<=13	Pass
LTE: QPSK NR: CP-OFDM 256 QAM	/	CC1:1745 CC2:831.5	LTE: 1RB_Left NR: Outer_Full	8.46	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	8.52	/	/	<=13	Pass
		CC1:1745 CC2:841.5	LTE: 1RB_Left NR: Outer_Full	8.48	/	/	<=13	Pass

3.1.4 15k_SISO_20MHz_NTNV

5G NR DC_66A_n5A SCS=15kHz SISO 20MHz NTN CC1:66 CC2:n5								
Modulation	BW Combo Set	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
				LTE	NR	Sum	Limit	
LTE: QPSK NR: DFT-s-OFDM PI/2 BPSK	/	CC1:1745 CC2:834	LTE: 1RB_Left NR: Outer_Full	4.60	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	4.48	/	/	<=13	Pass
		CC1:1745 CC2:839	LTE: 1RB_Left NR: Outer_Full	4.40	/	/	<=13	Pass
LTE: QPSK NR: DFT-s-OFDM QPSK	/	CC1:1745 CC2:834	LTE: 1RB_Left NR: Outer_Full	5.50	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	5.48	/	/	<=13	Pass
		CC1:1745 CC2:839	LTE: 1RB_Left NR: Outer_Full	5.46	/	/	<=13	Pass
LTE: QPSK NR: DFT-s-OFDM 16 QAM	/	CC1:1745 CC2:834	LTE: 1RB_Left NR: Outer_Full	5.70	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	6.28	/	/	<=13	Pass
		CC1:1745 CC2:839	LTE: 1RB_Left NR: Outer_Full	6.26	/	/	<=13	Pass
LTE: QPSK NR: DFT-s-OFDM 64 QAM	/	CC1:1745 CC2:834	LTE: 1RB_Left NR: Outer_Full	6.08	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	6.00	/	/	<=13	Pass
		CC1:1745 CC2:839	LTE: 1RB_Left NR: Outer_Full	6.36	/	/	<=13	Pass
LTE: QPSK NR: DFT-s-OFDM 256 QAM	/	CC1:1745 CC2:834	LTE: 1RB_Left NR: Outer_Full	6.86	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	6.82	/	/	<=13	Pass
		CC1:1745 CC2:839	LTE: 1RB_Left NR: Outer_Full	6.80	/	/	<=13	Pass
LTE: QPSK NR: CP-OFDM QPSK	/	CC1:1745 CC2:834	LTE: 1RB_Left NR: Outer_Full	6.78	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	7.82	/	/	<=13	Pass
		CC1:1745 CC2:839	LTE: 1RB_Left NR: Outer_Full	7.78	/	/	<=13	Pass
LTE: QPSK NR: CP-OFDM 16 QAM	/	CC1:1745 CC2:834	LTE: 1RB_Left NR: Outer_Full	6.90	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	7.86	/	/	<=13	Pass
		CC1:1745 CC2:839	LTE: 1RB_Left NR: Outer_Full	7.74	/	/	<=13	Pass
LTE: QPSK	/	CC1:1745	LTE: 1RB_Left	7.40	/	/	<=13	Pass



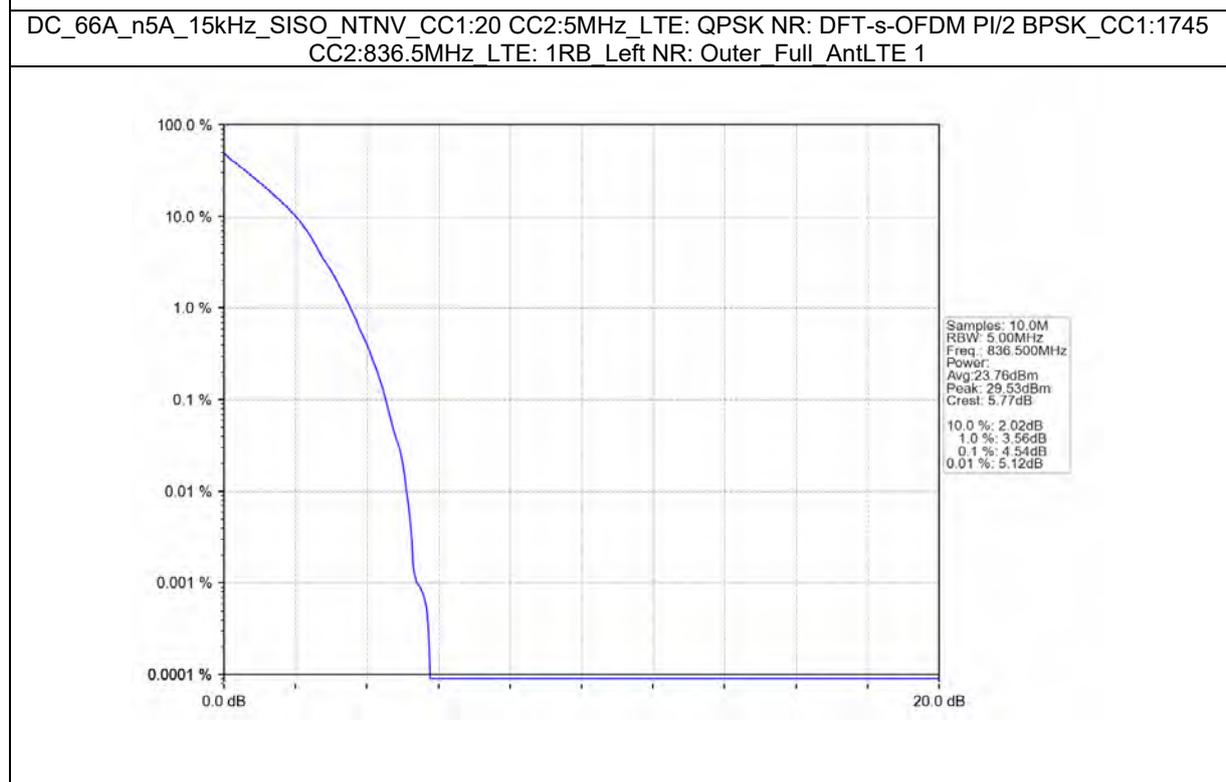
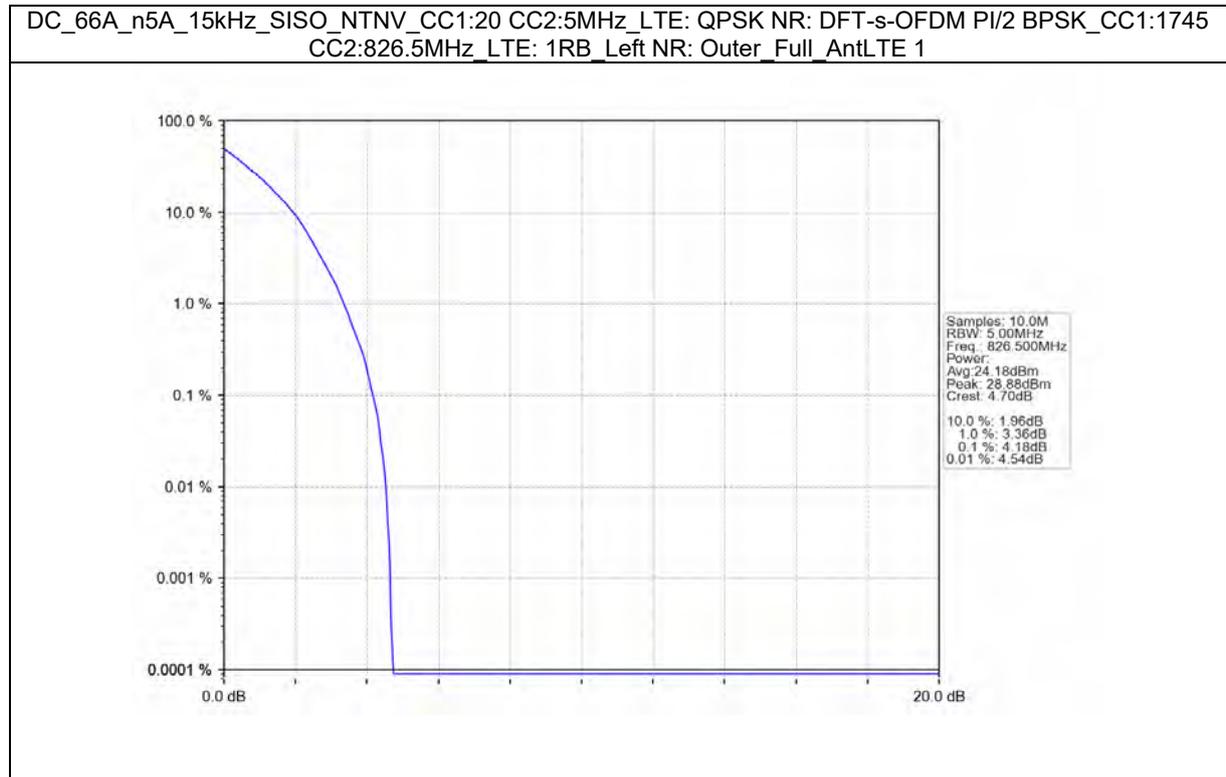
BUREAU VERITAS

Test Report No.: PSU-NQN2504150110RF05

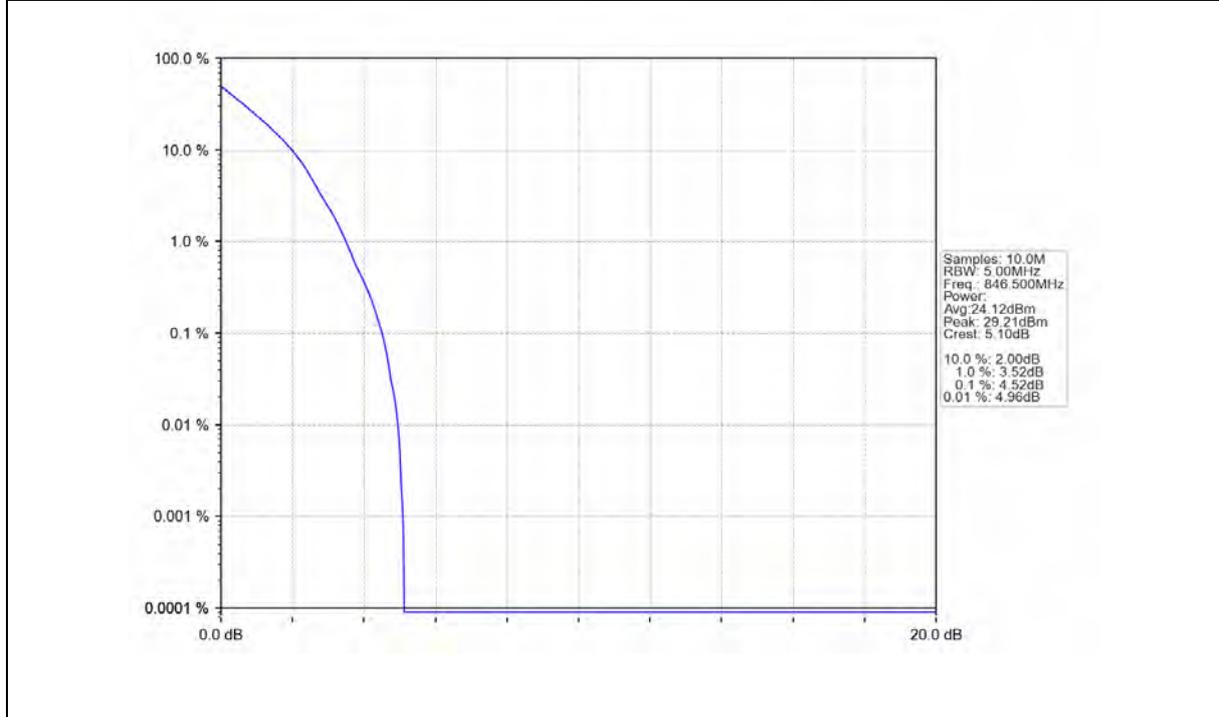
NR: CP-OFDM 64 QAM		CC2:834	NR: Outer_Full					
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	7.36	/	/	<=13	Pass
		CC1:1745 CC2:839	LTE: 1RB_Left NR: Outer_Full	8.00	/	/	<=13	Pass
LTE: QPSK NR: CP-OFDM 256 QAM	/	CC1:1745 CC2:834	LTE: 1RB_Left NR: Outer_Full	8.48	/	/	<=13	Pass
		CC1:1745 CC2:836.5	LTE: 1RB_Left NR: Outer_Full	8.46	/	/	<=13	Pass
		CC1:1745 CC2:839	LTE: 1RB_Left NR: Outer_Full	8.54	/	/	<=13	Pass

3.2 Test Graph

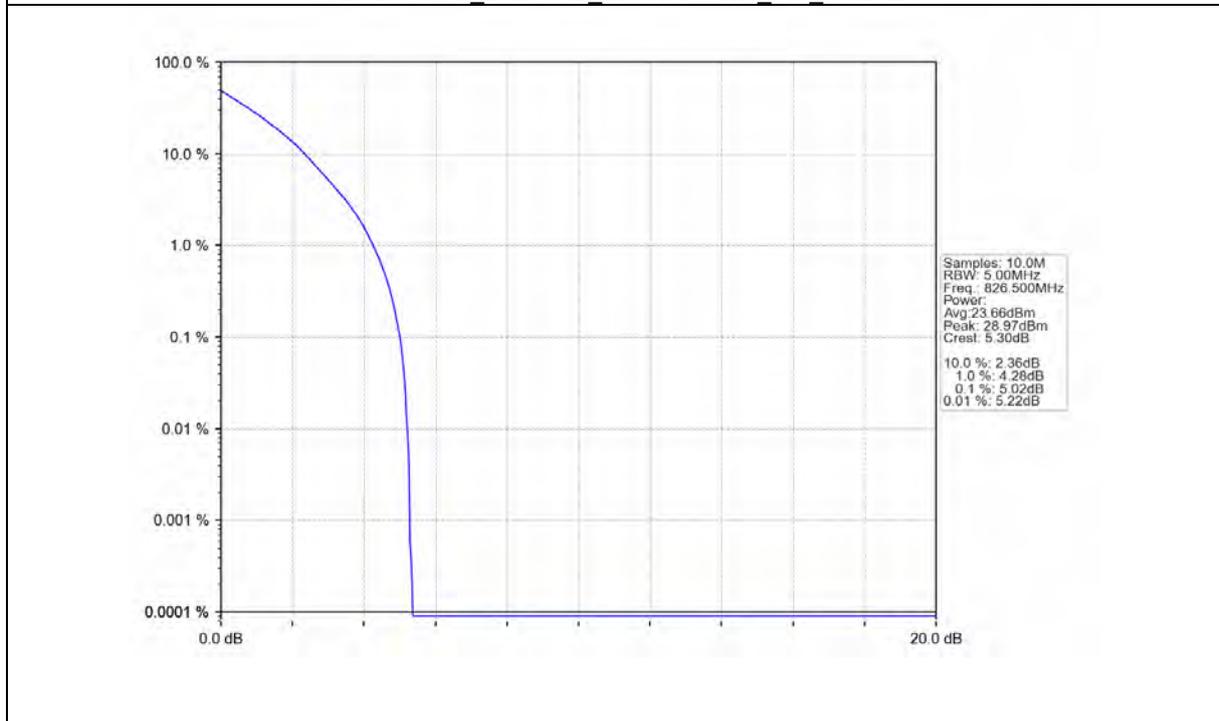
3.2.1 15k_SISO_5MHz_NTNV



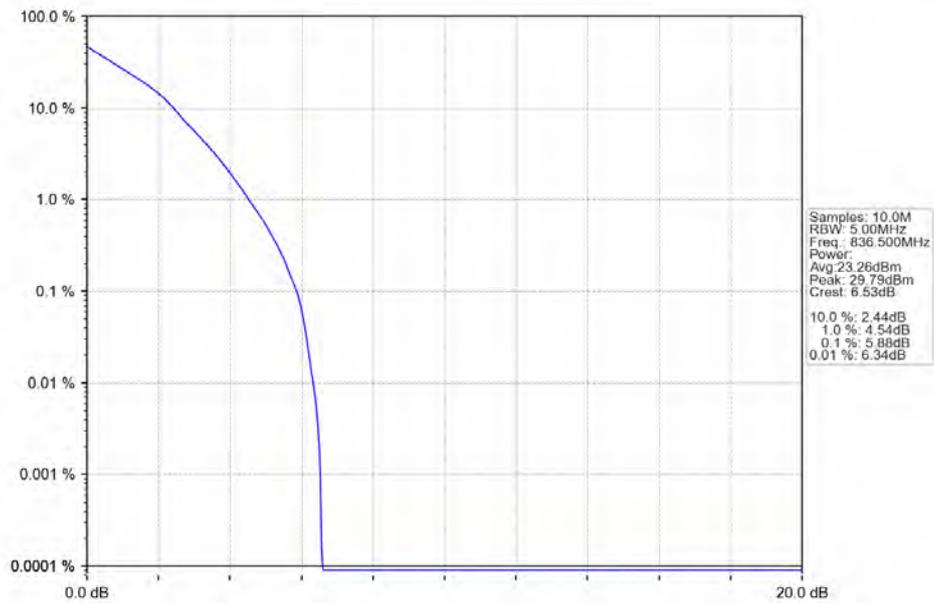
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CC2:846.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



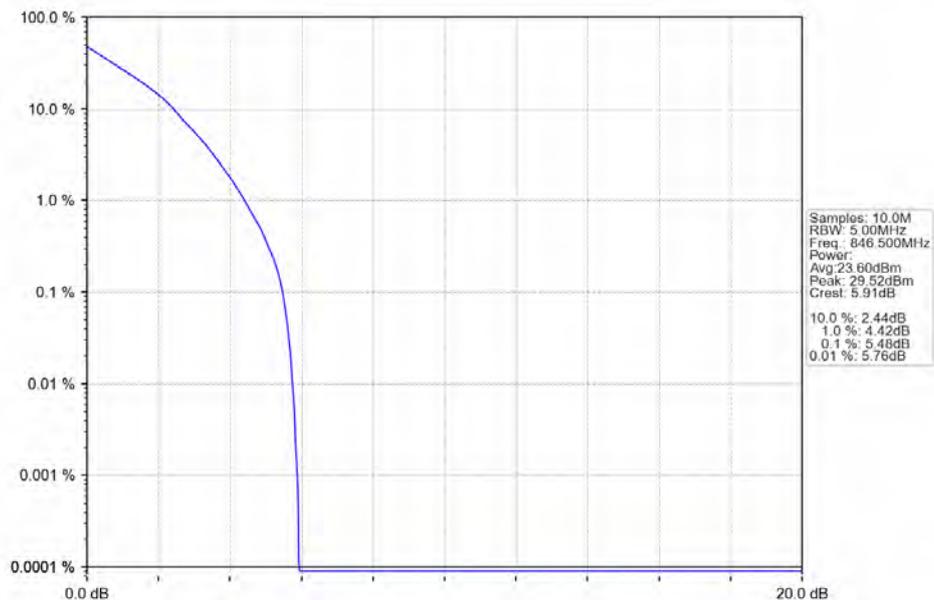
DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:5MHz_LTE: QPSK NR: DFT-s-OFDM QPSK_CC1:1745
CC2:826.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



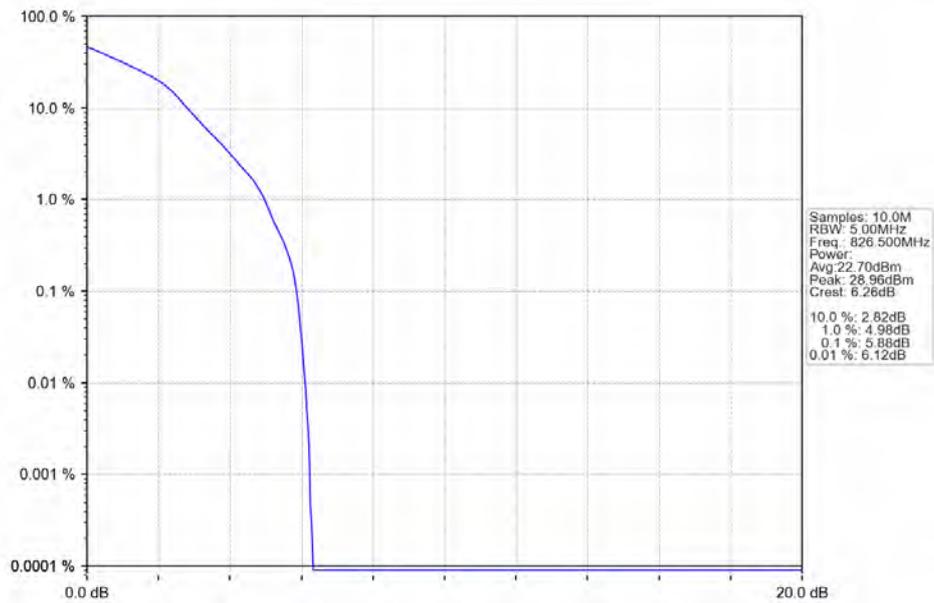
DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:5MHz_LTE: QPSK NR: DFT-s-OFDM QPSK_CC1:1745
CC2:836.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



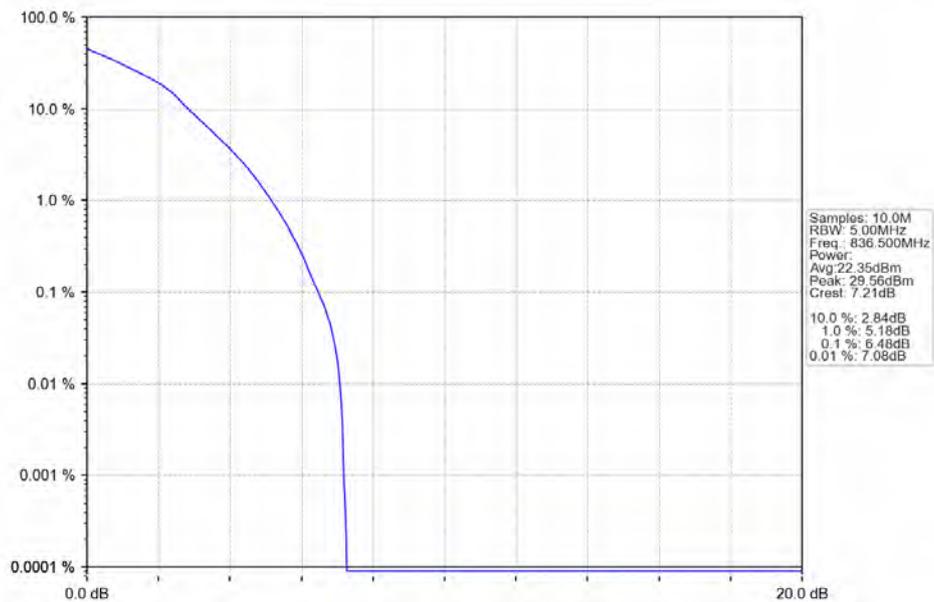
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CC2:846.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



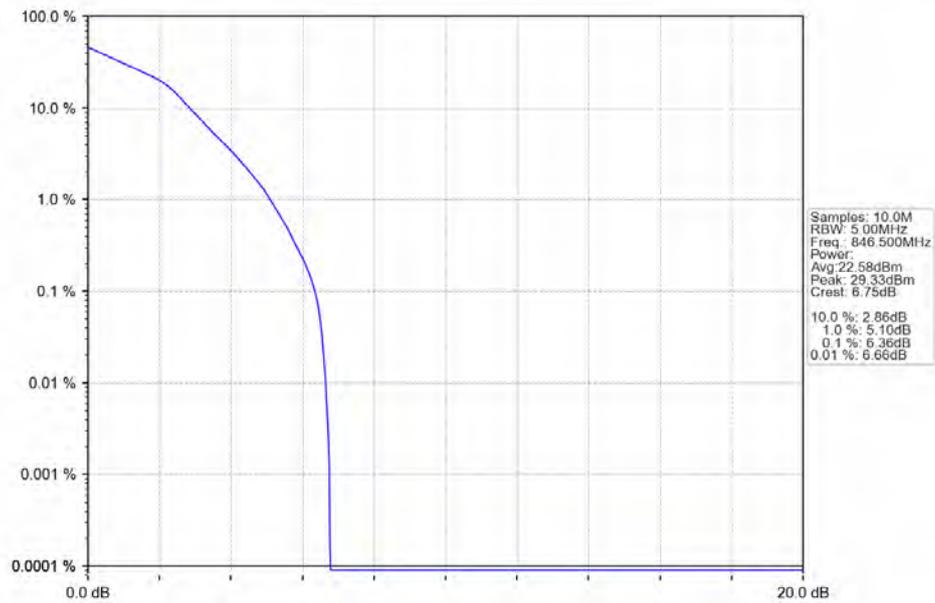
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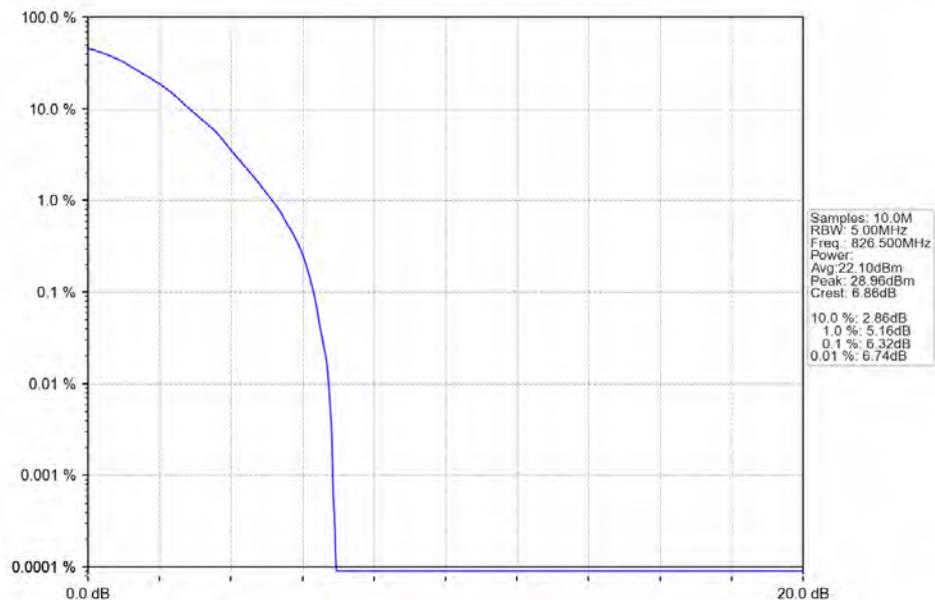
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CC2:836.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



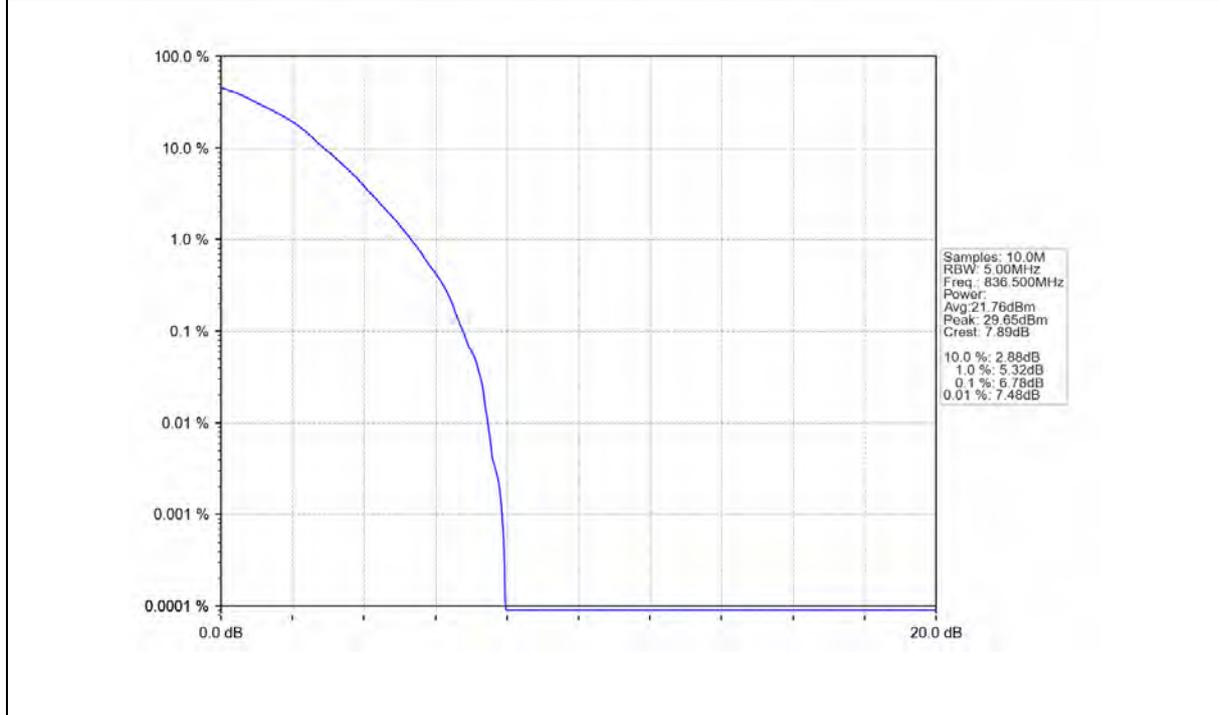
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CC2:846.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



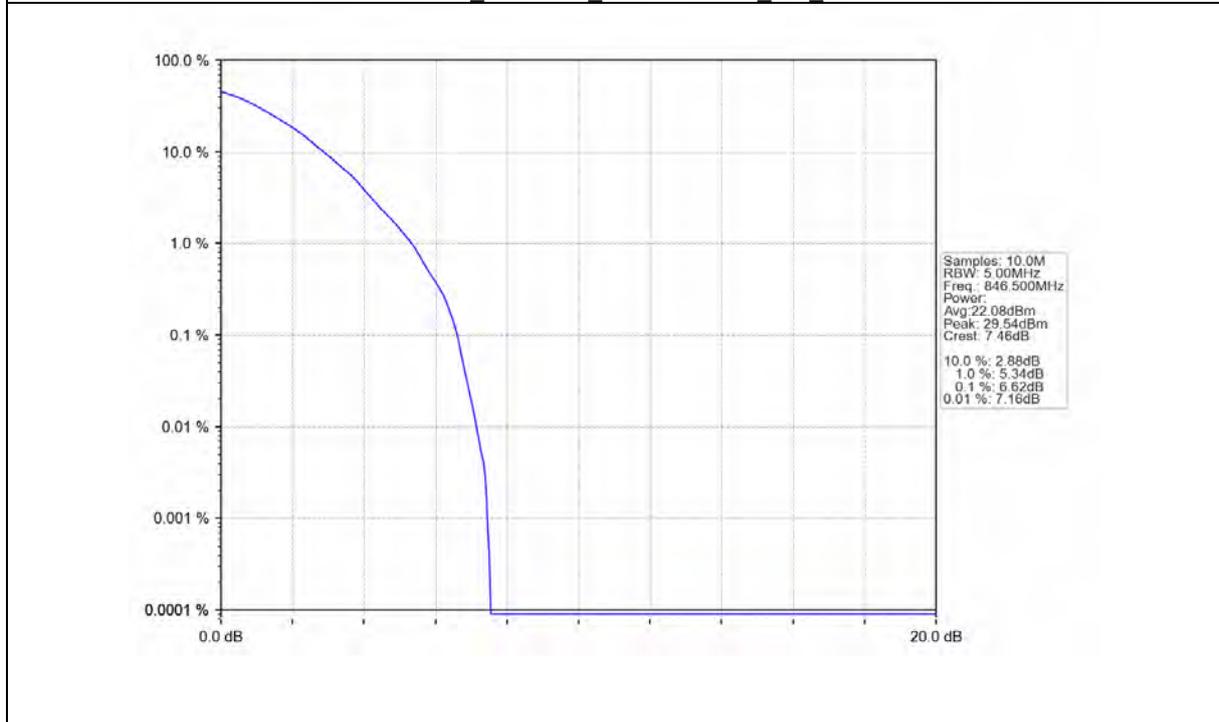
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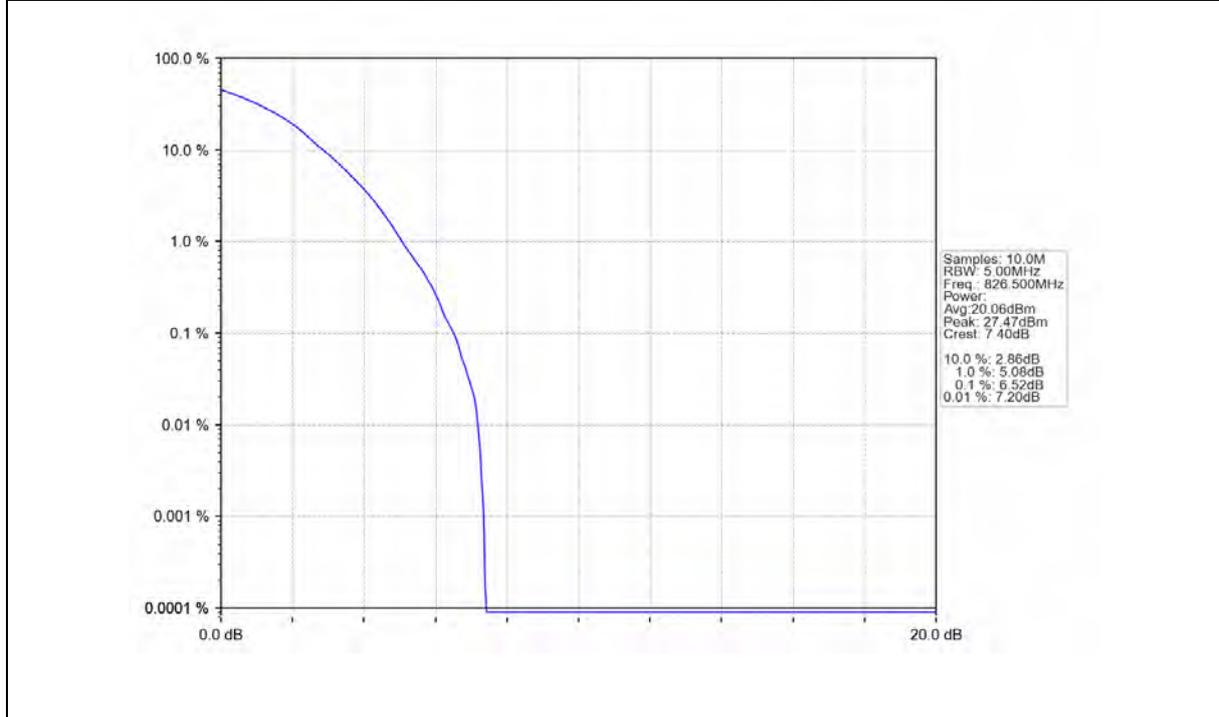
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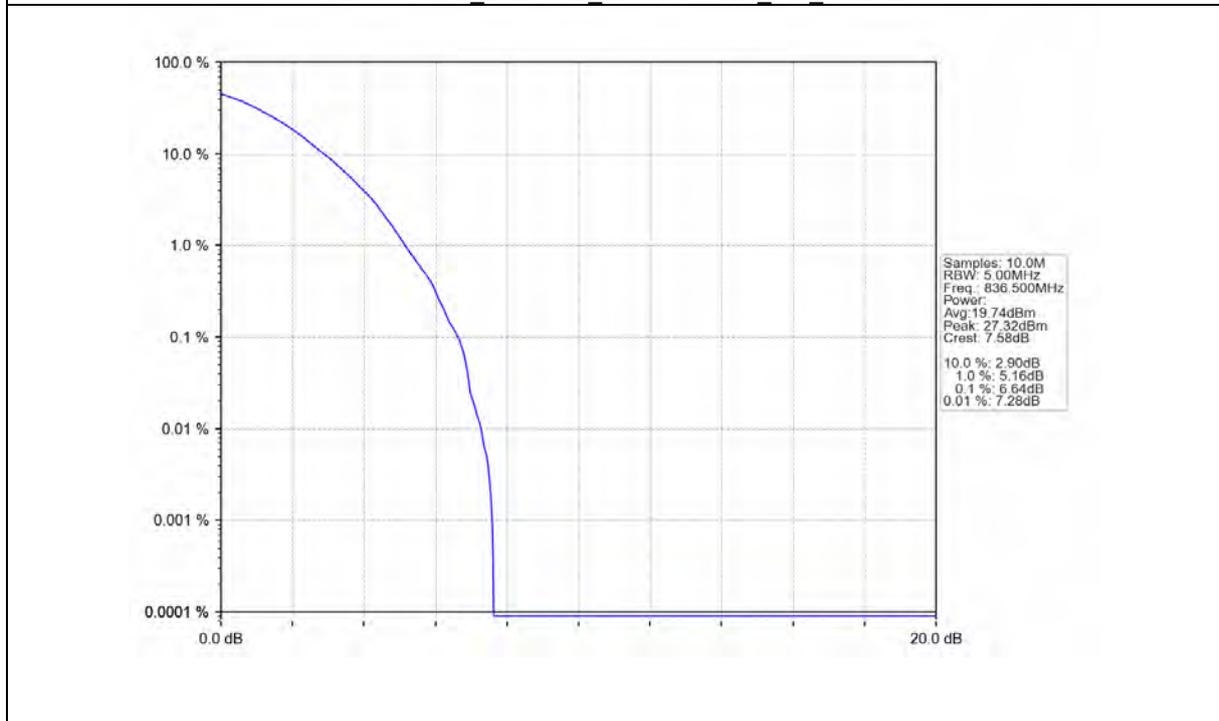
DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:5MHz_LTE: QPSK NR: DFT-s-OFDM 64 QAM_CC1:1745
CC2:846.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



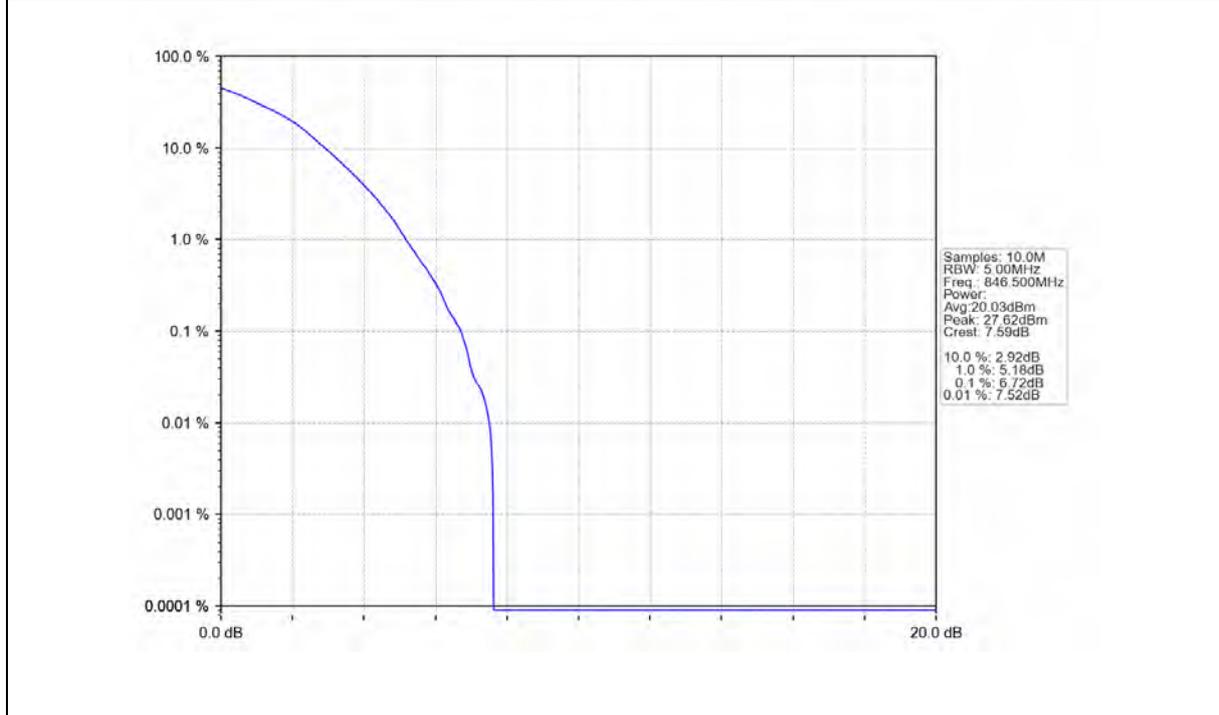
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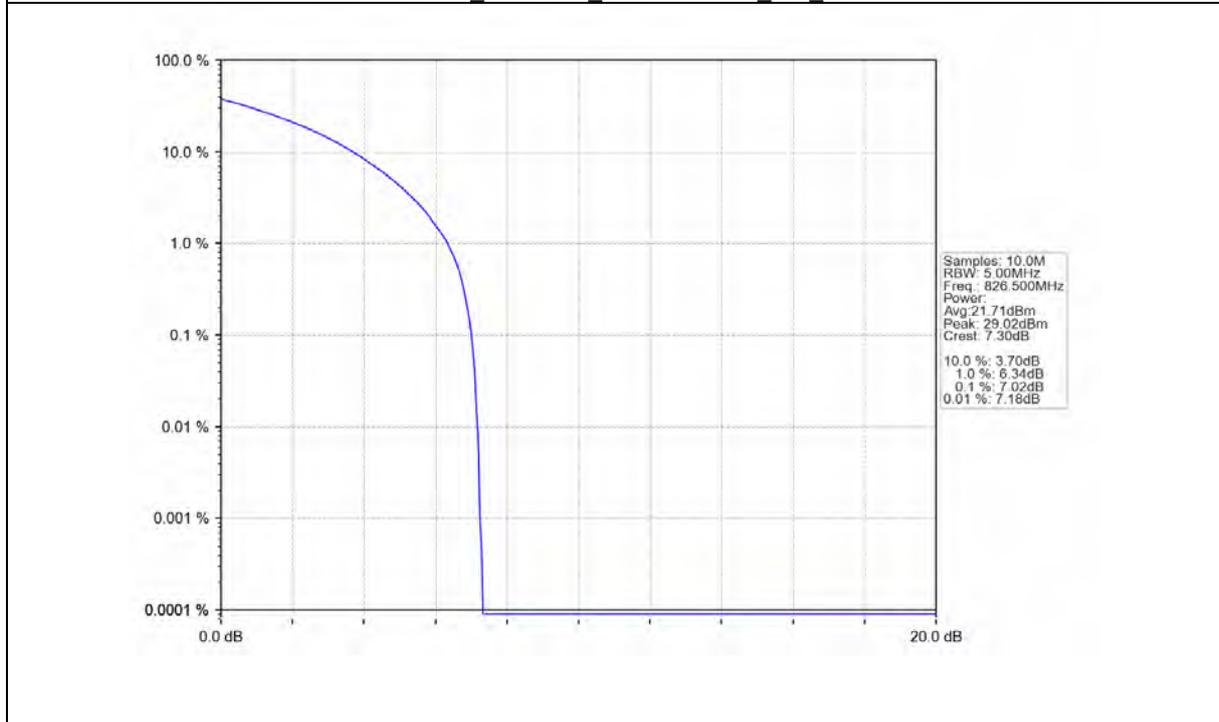
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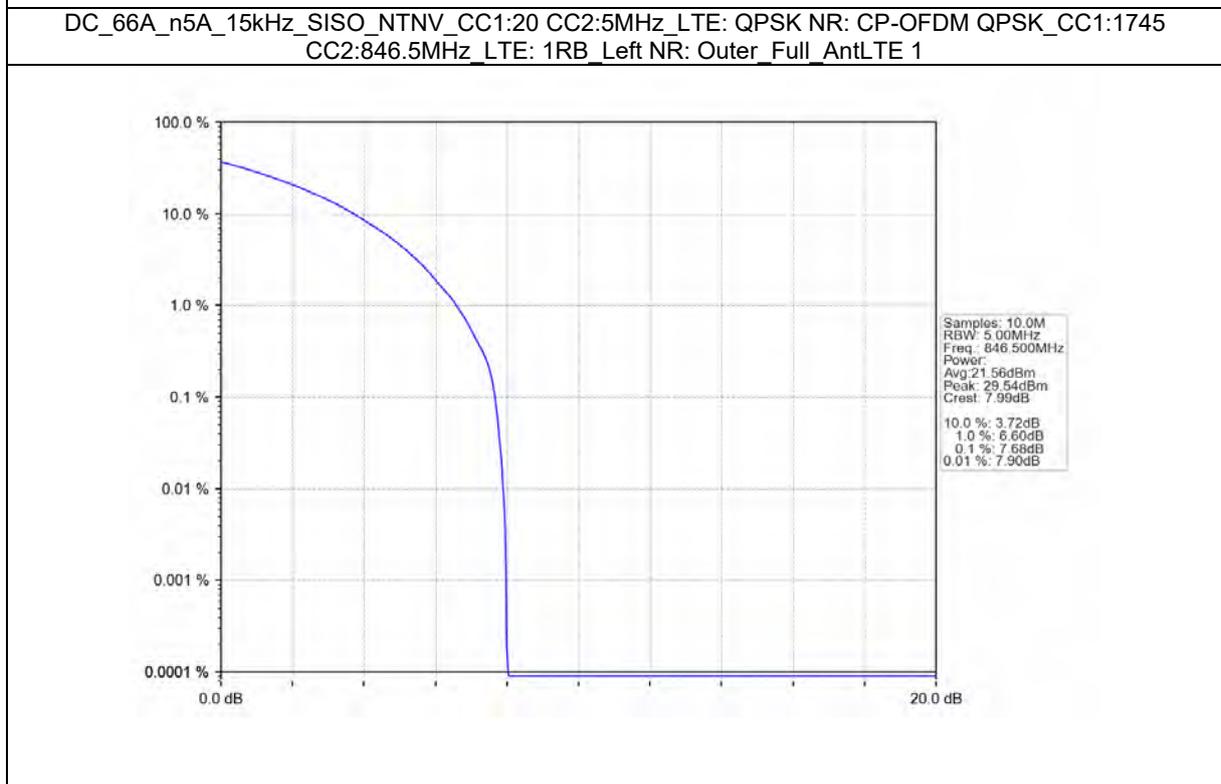


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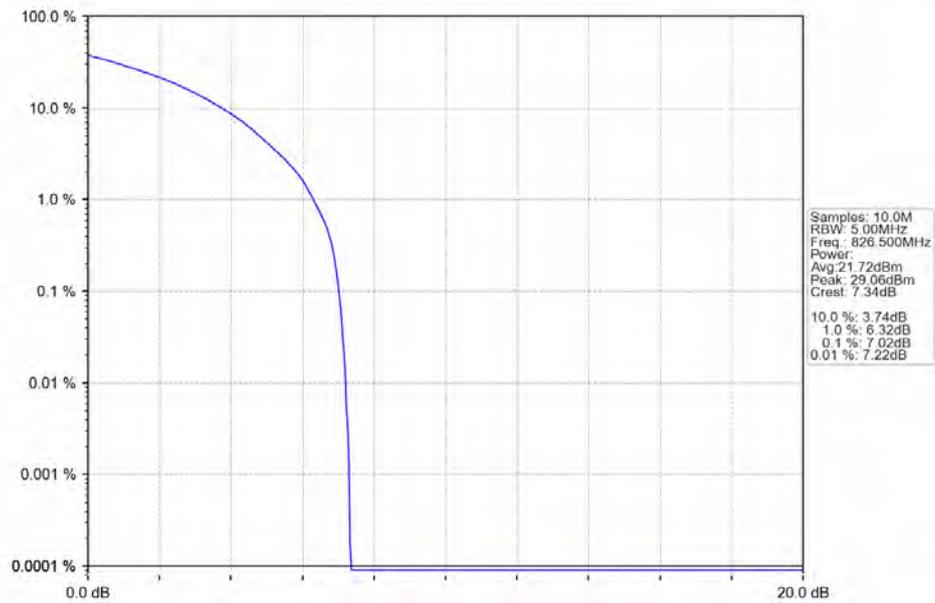


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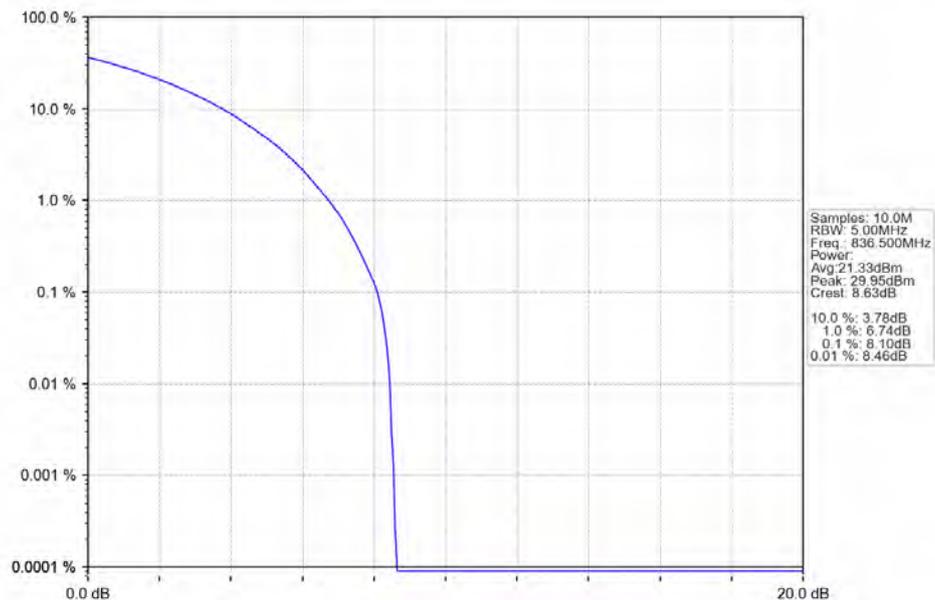




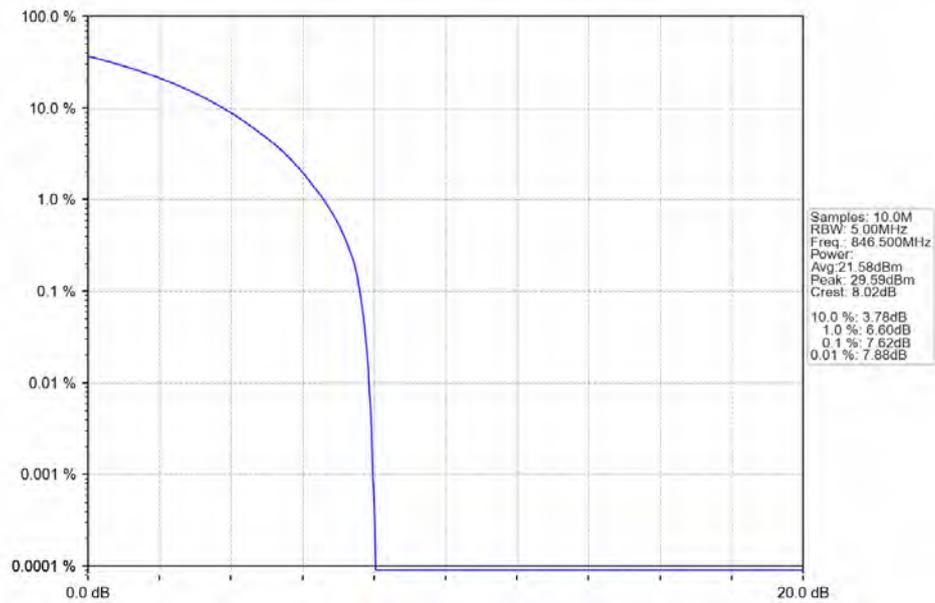
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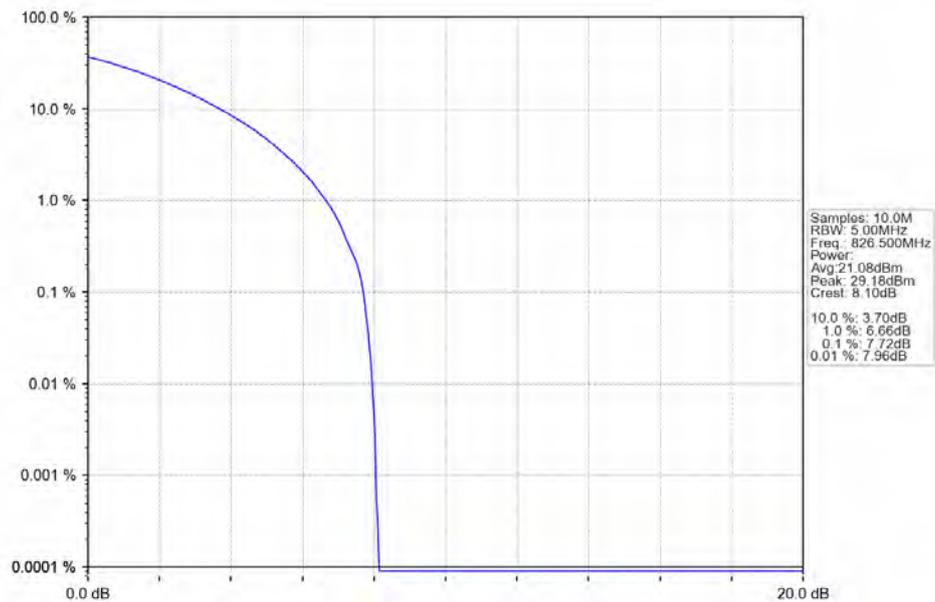
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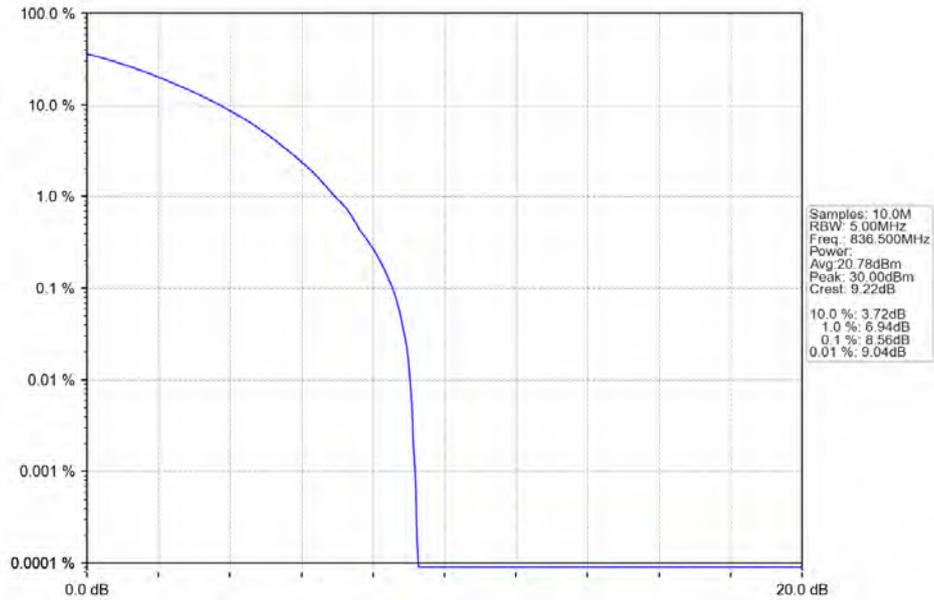
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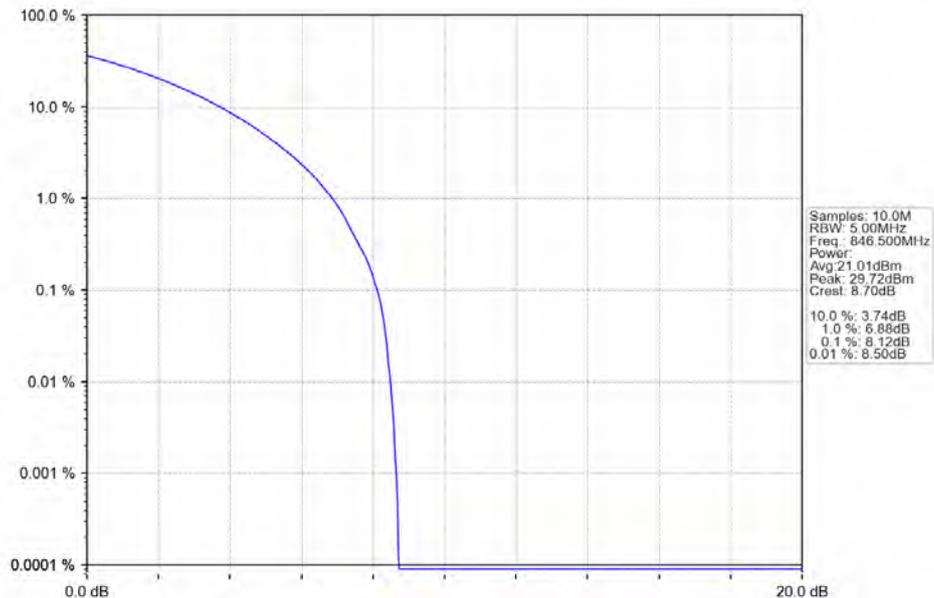
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DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:5MHz_LTE: QPSK NR: CP-OFDM 64 QAM_CC1:1745
CC2:836.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:5MHz_LTE: QPSK NR: CP-OFDM 64 QAM_CC1:1745
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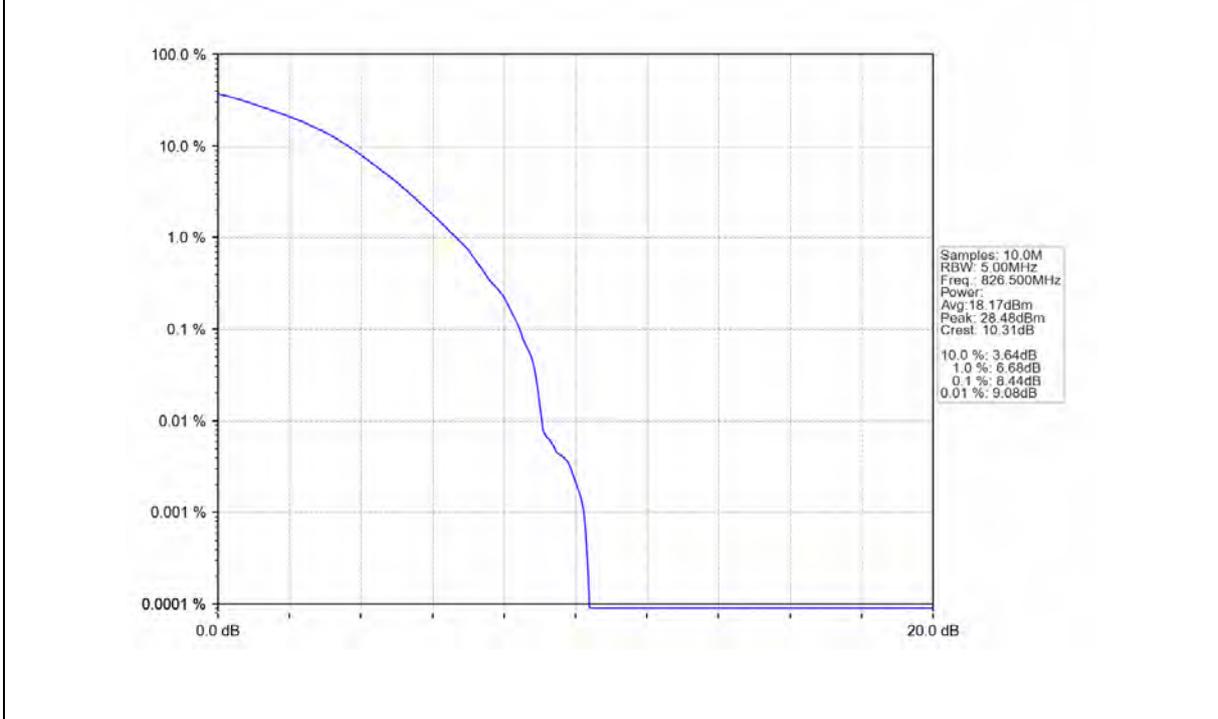




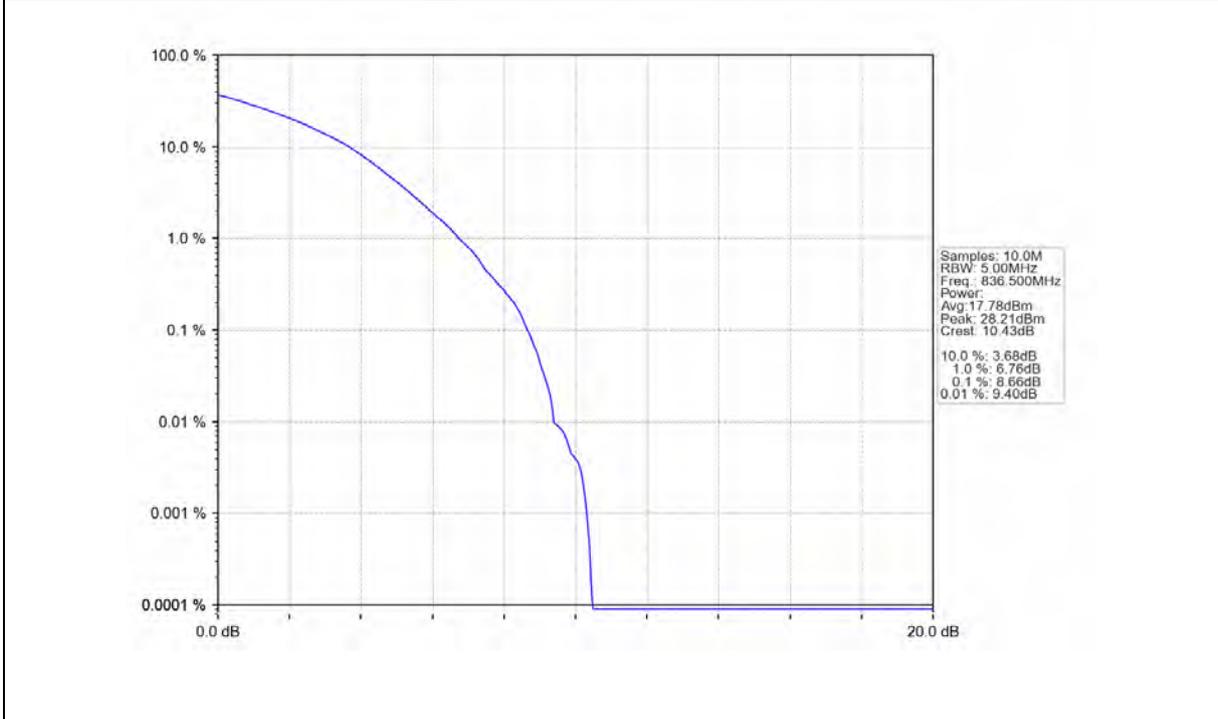
BUREAU VERITAS

Test Report No.: PSU-NQN2504150110RF05

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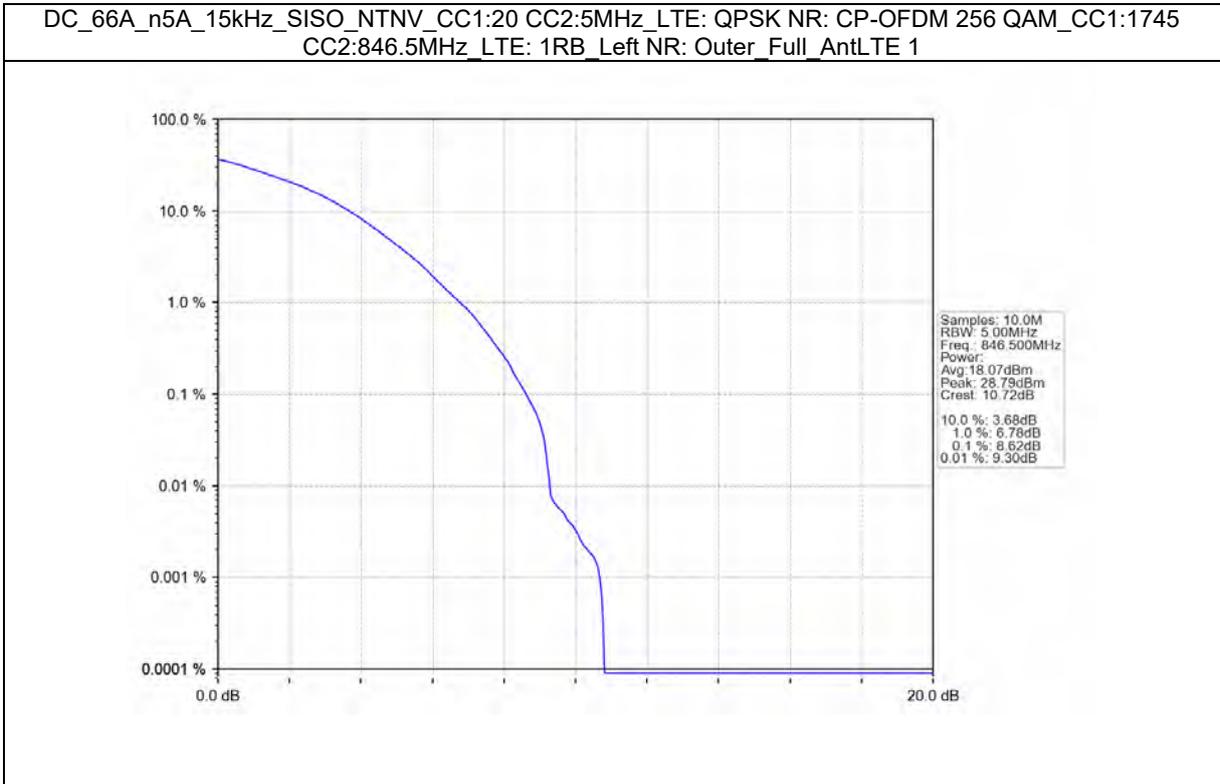


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CC2:836.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1





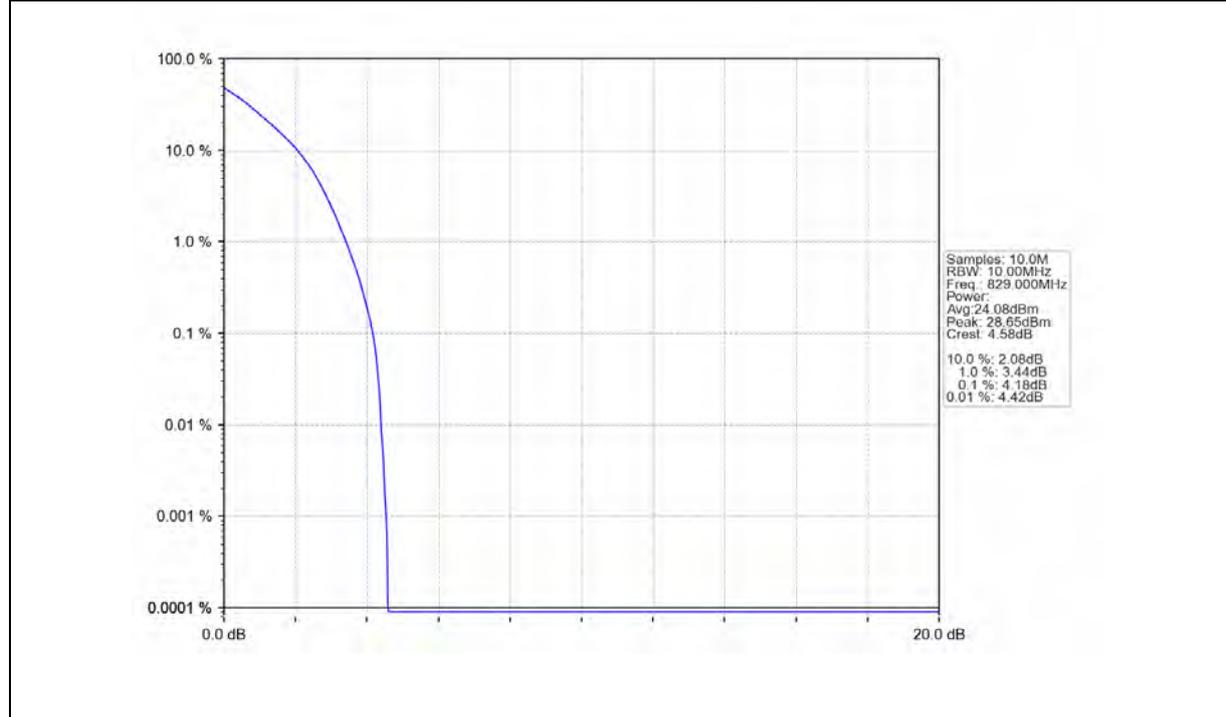
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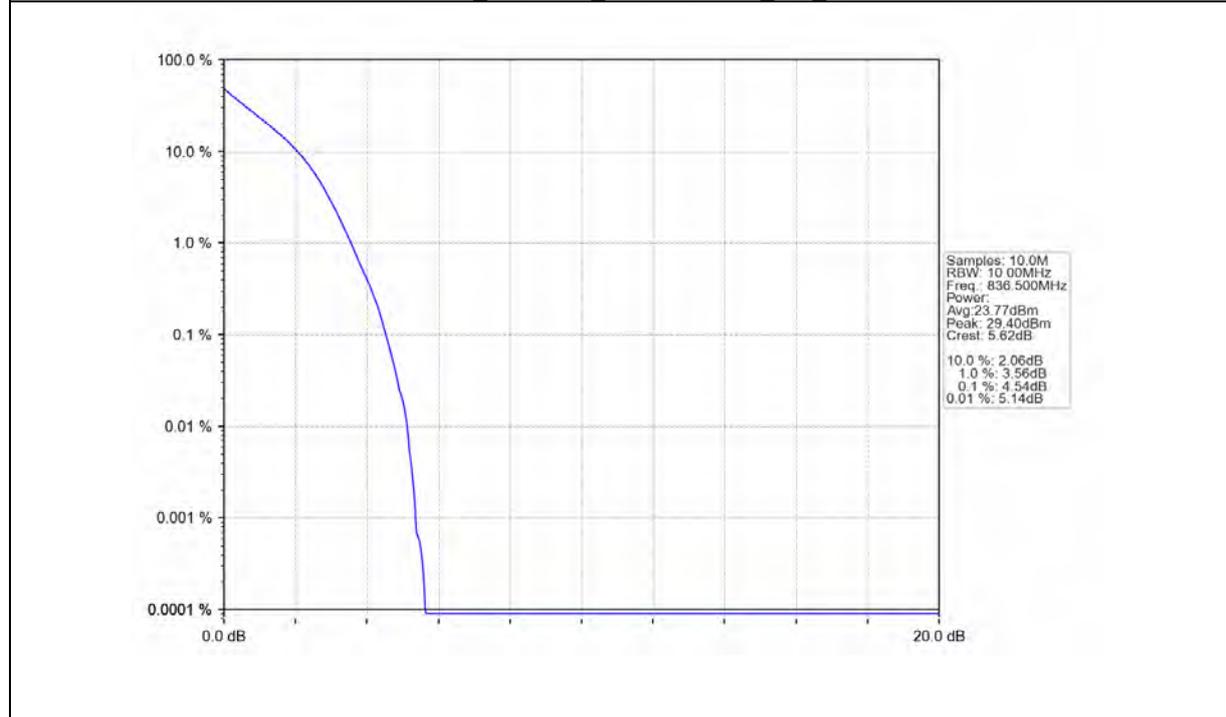


3.2.2 15k_SISO_10MHz_NTNV

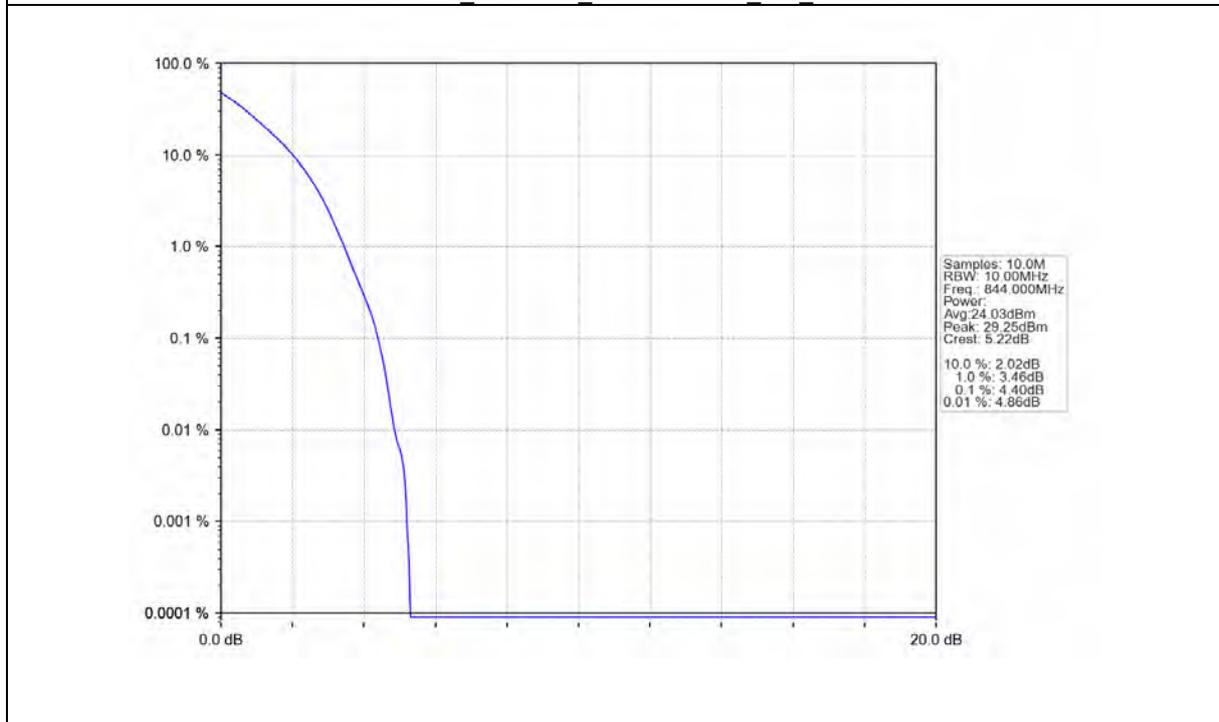
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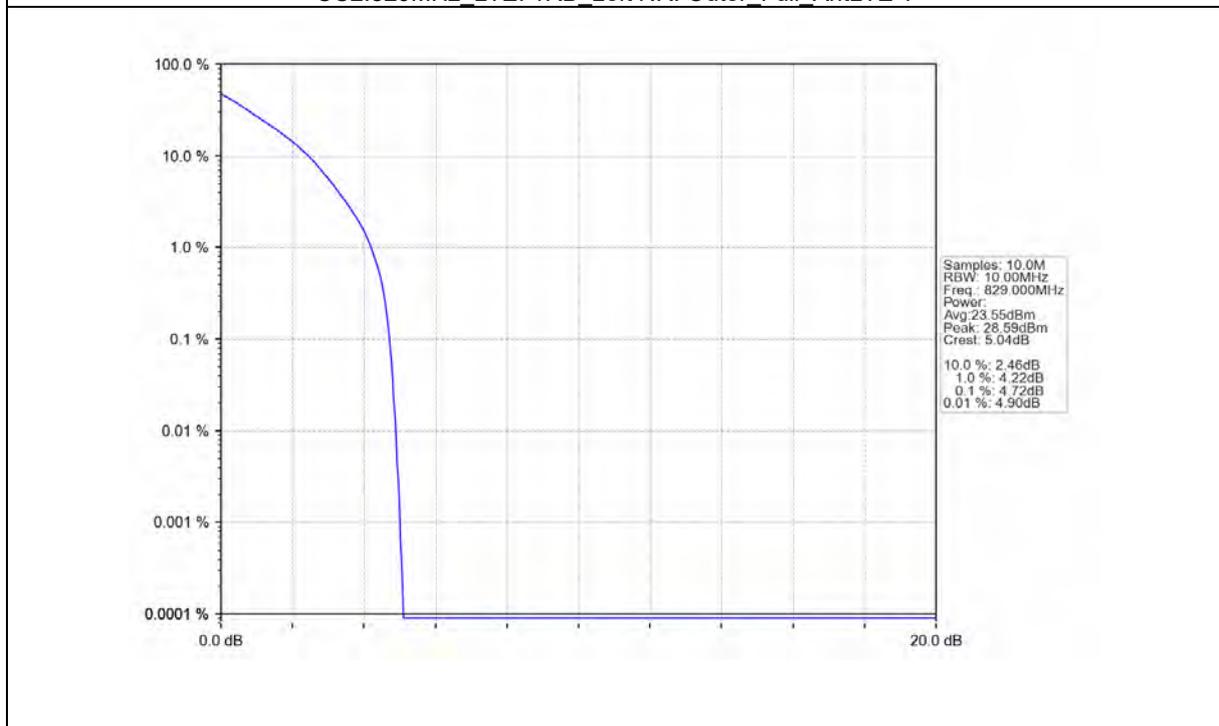
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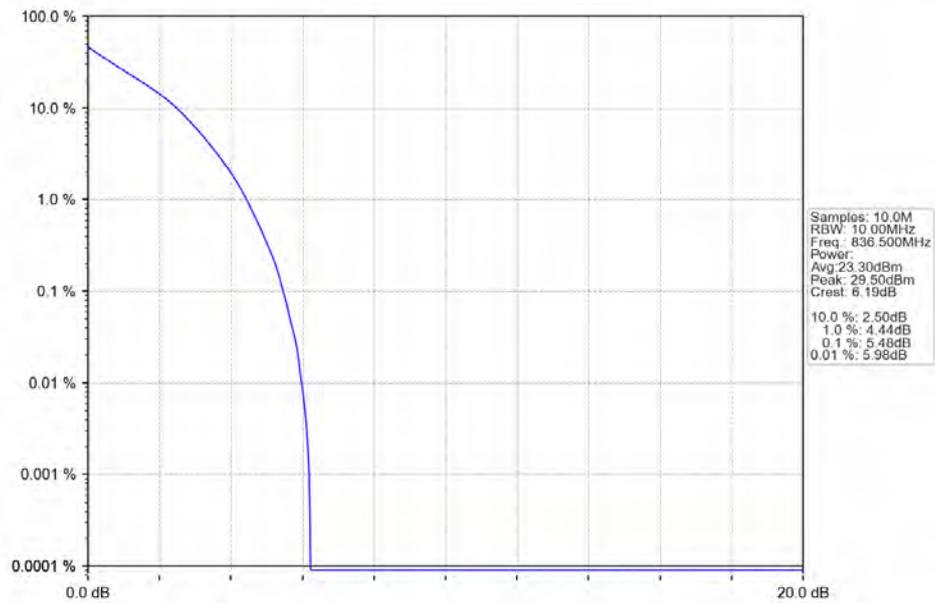
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CC2:844MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



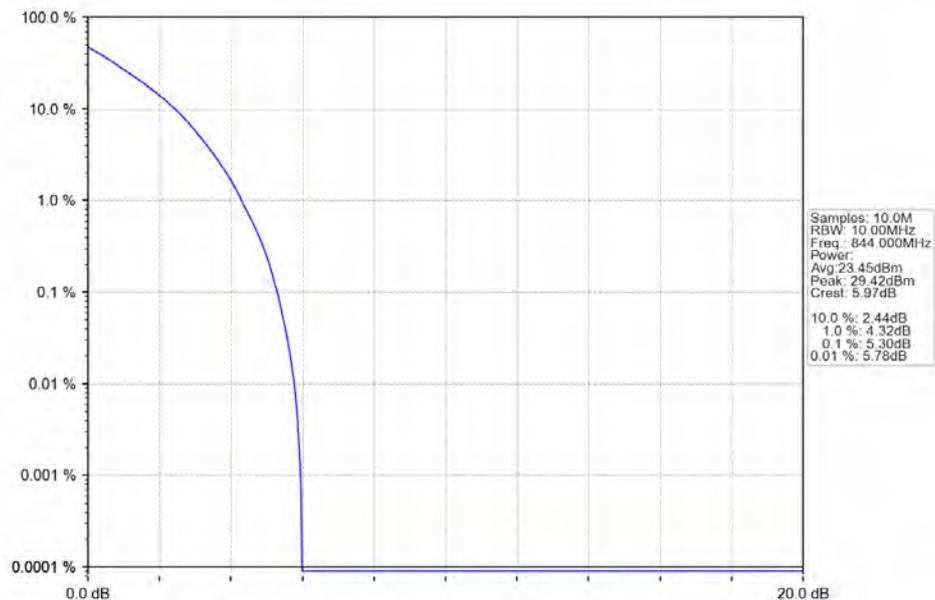
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CC2:829MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



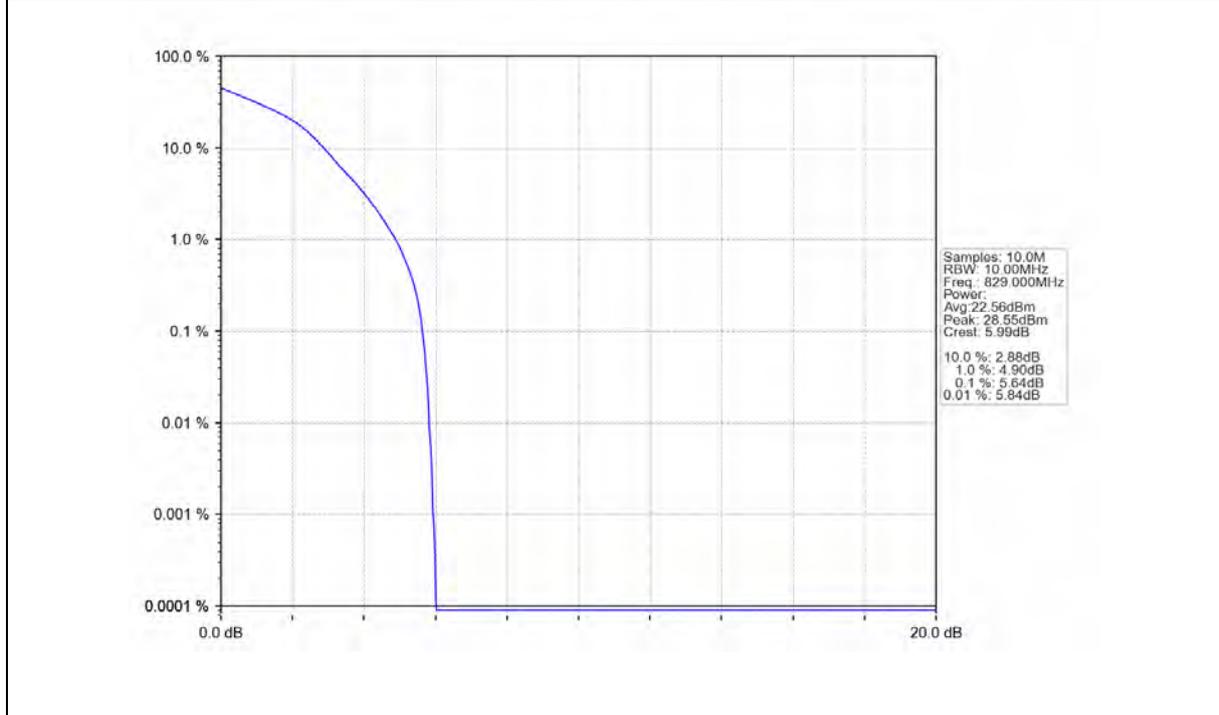
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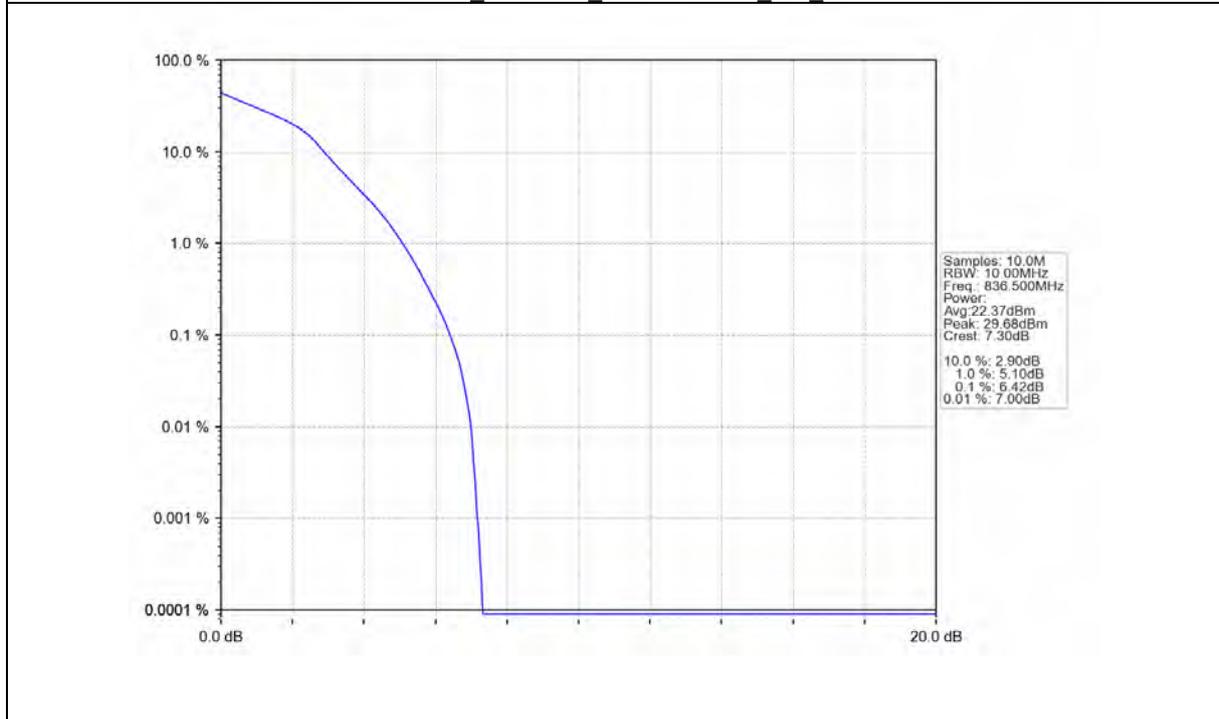
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CC2:844MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:10MHz_LTE: QPSK NR: DFT-s-OFDM 16 QAM_CC1:1745
CC2:829MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:10MHz_LTE: QPSK NR: DFT-s-OFDM 16 QAM_CC1:1745
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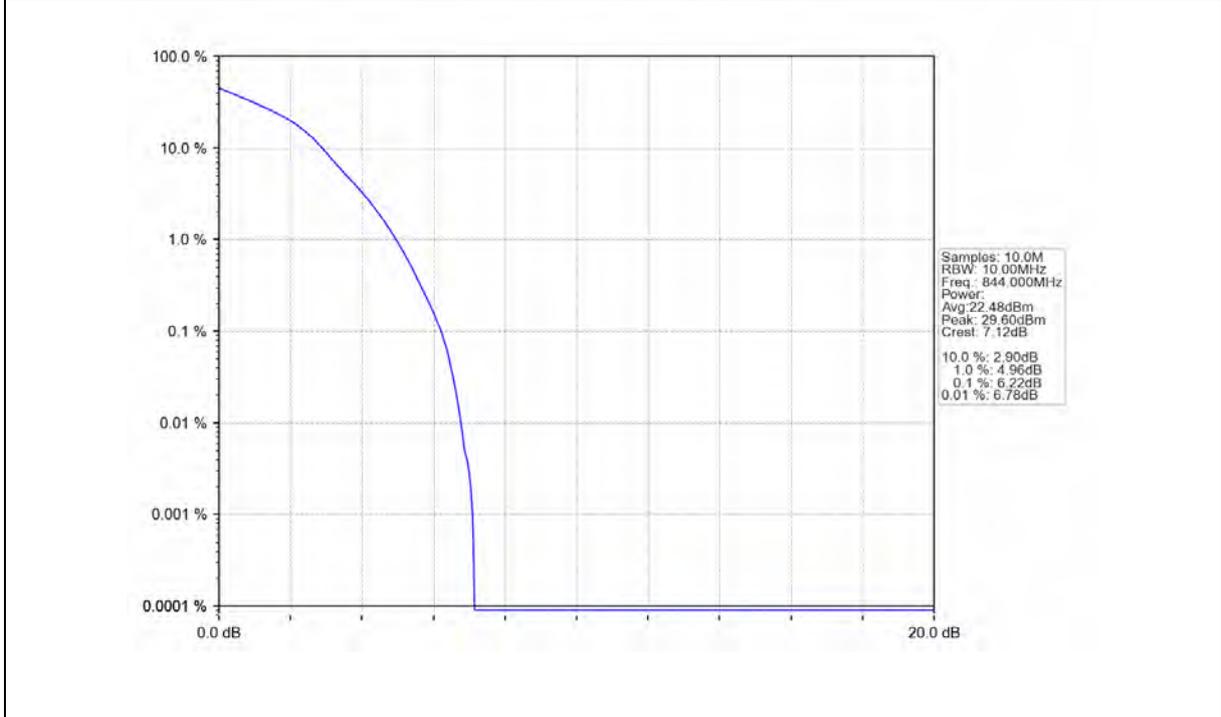




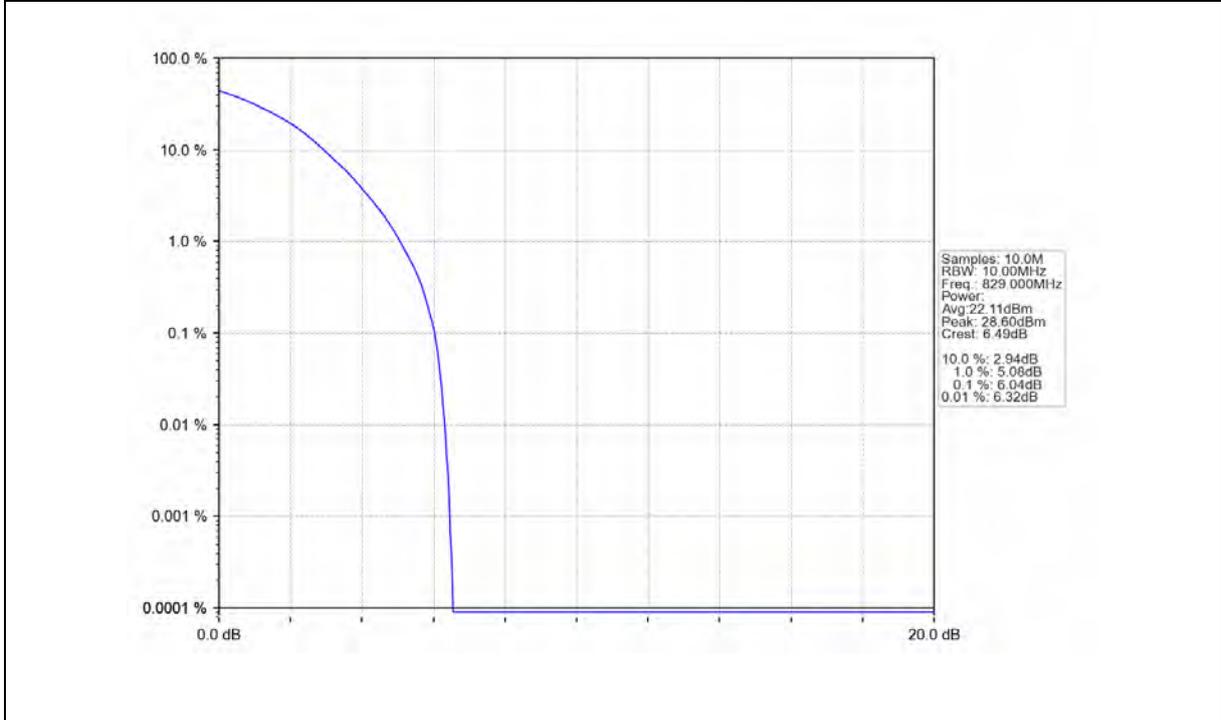
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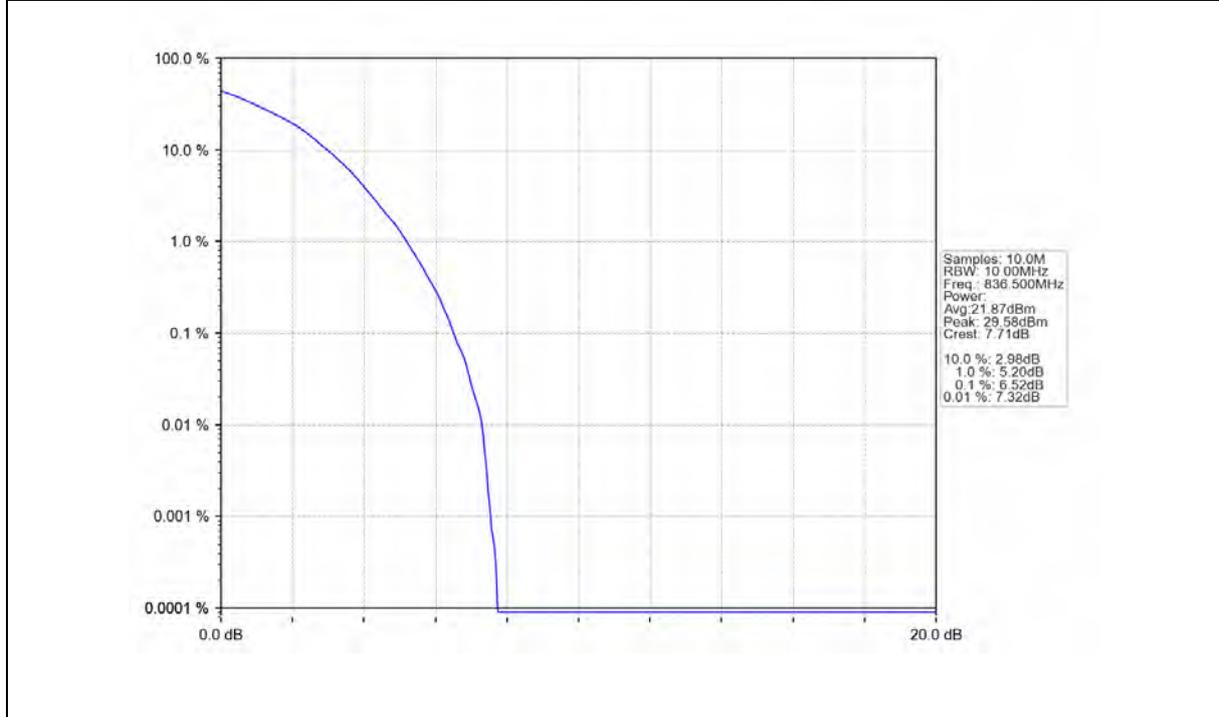
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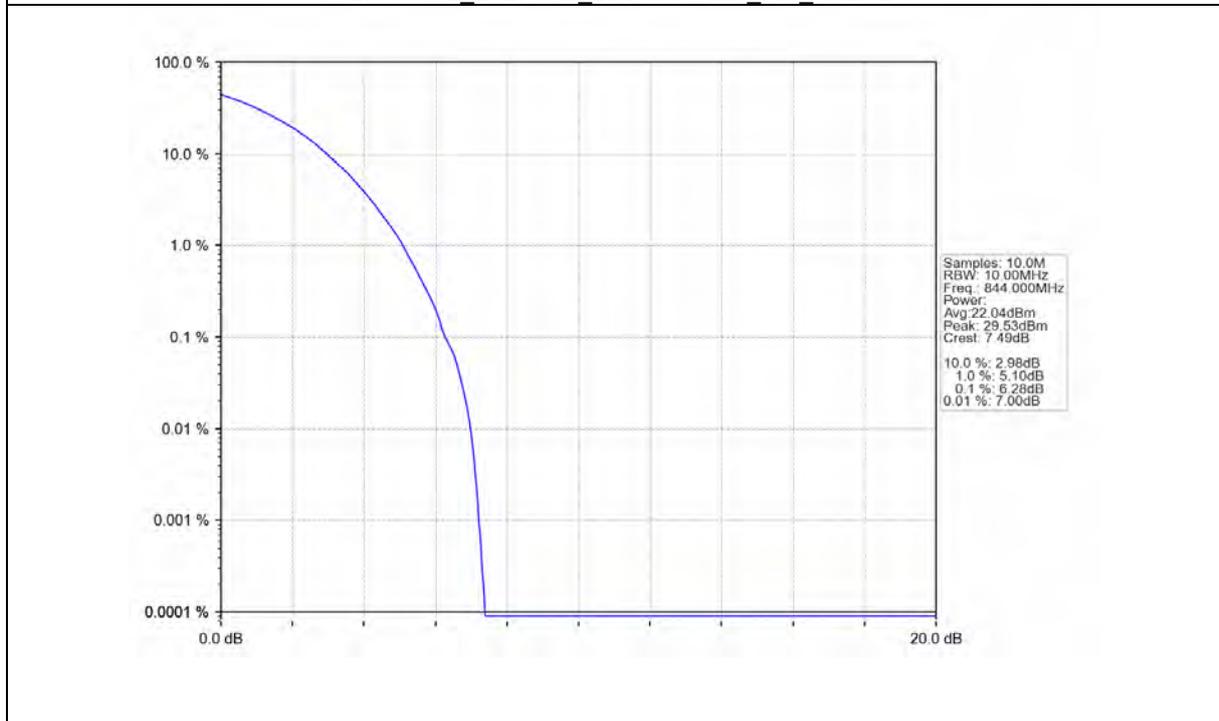
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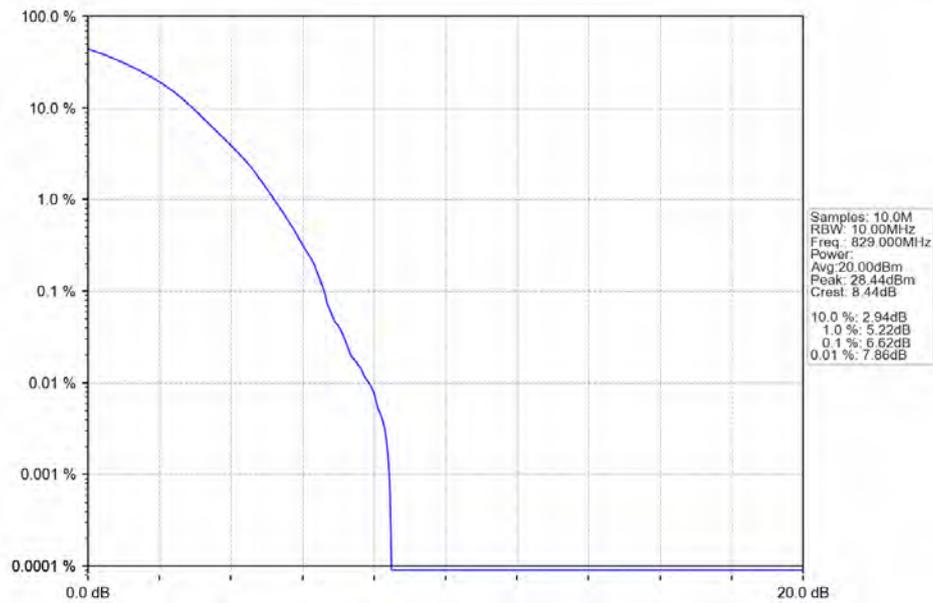
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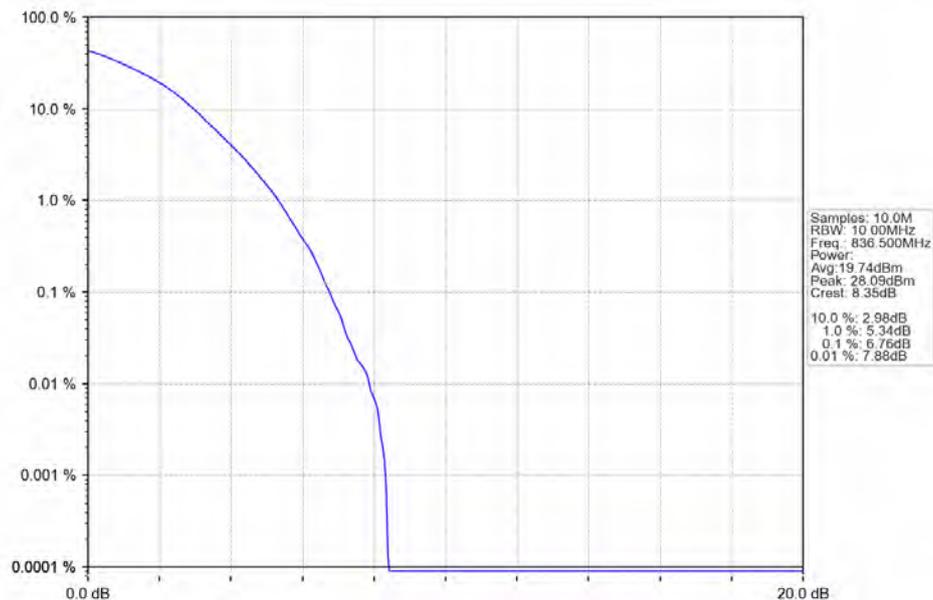
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CC2:829MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



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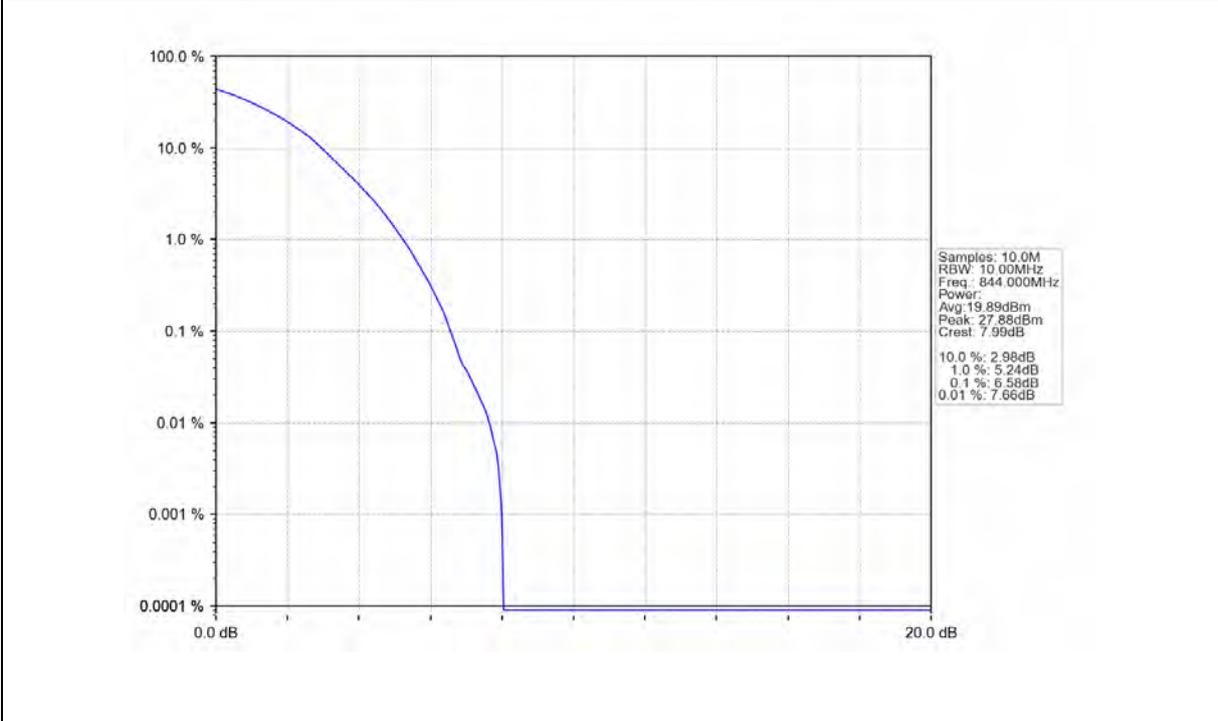




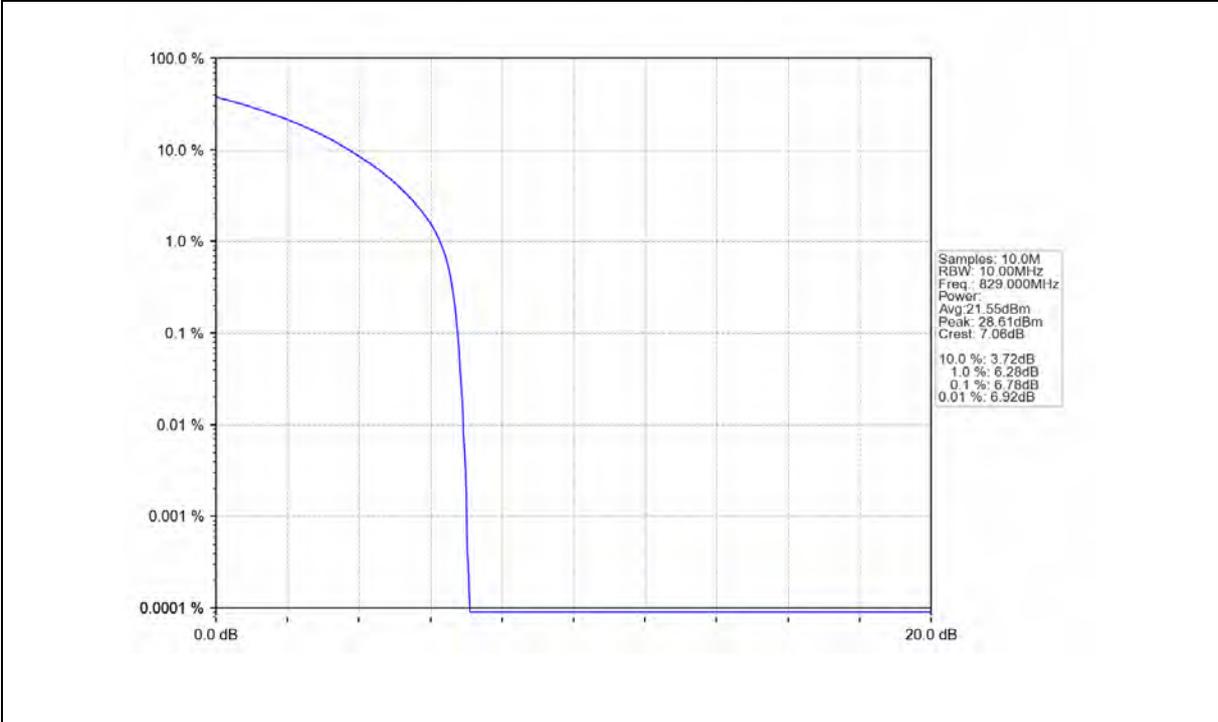
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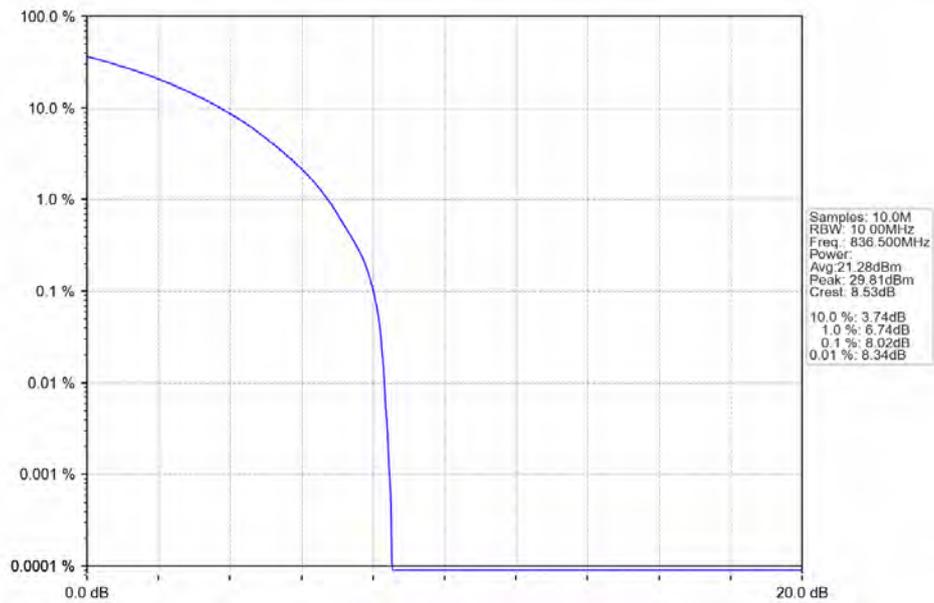
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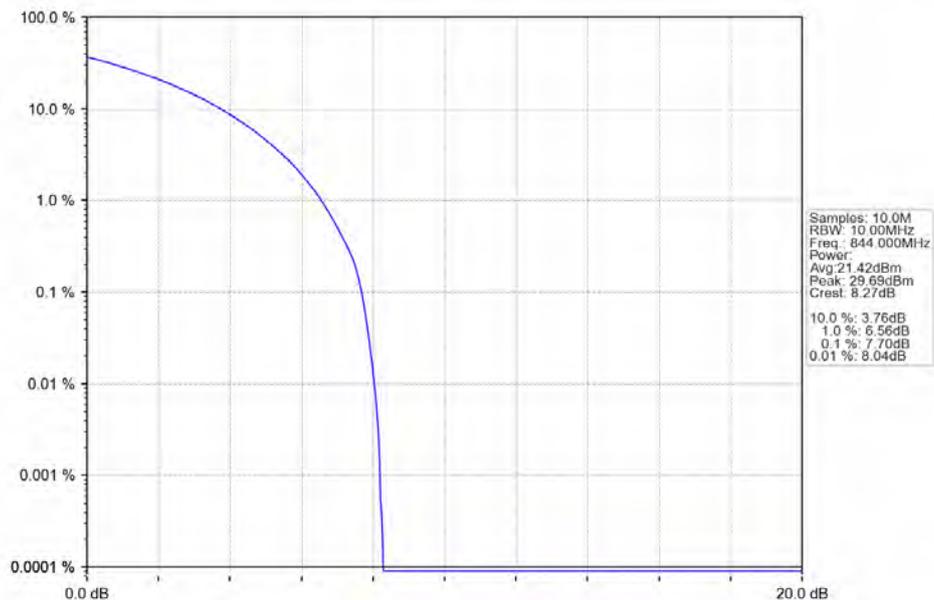
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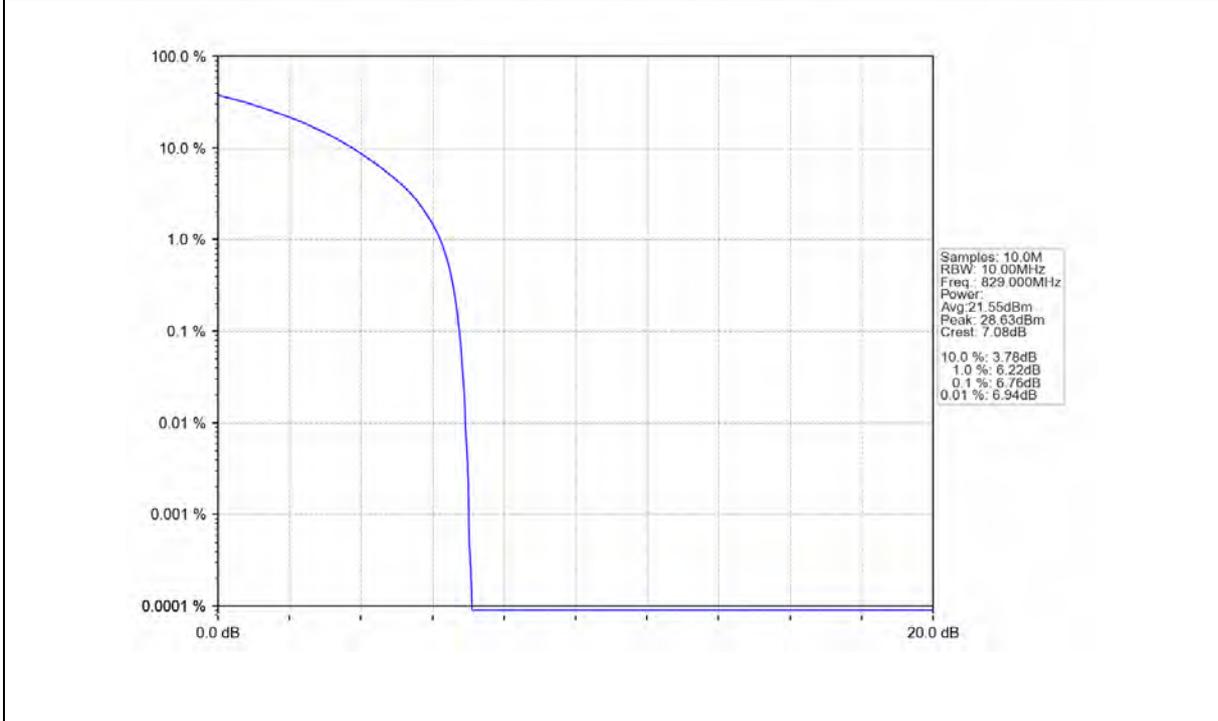




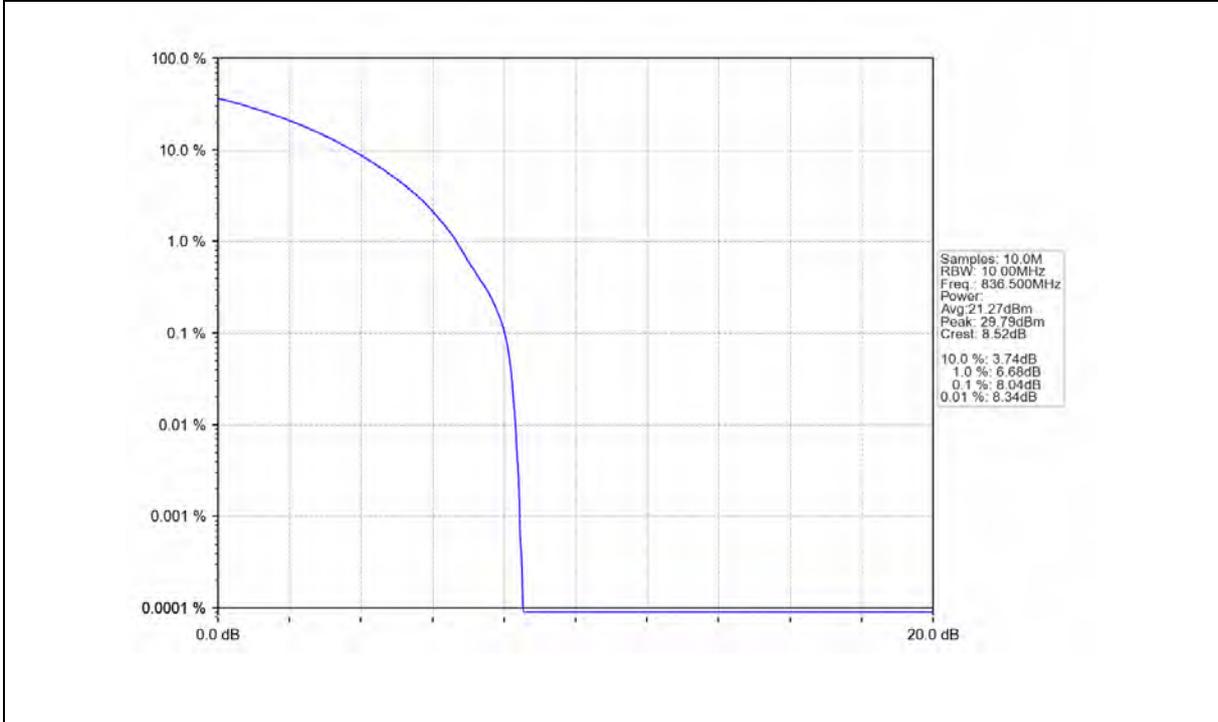
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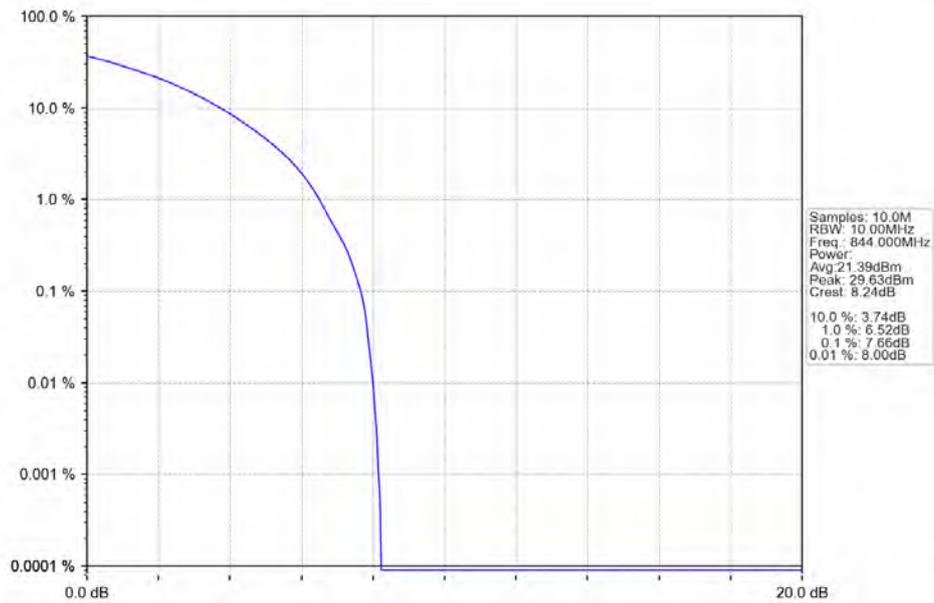
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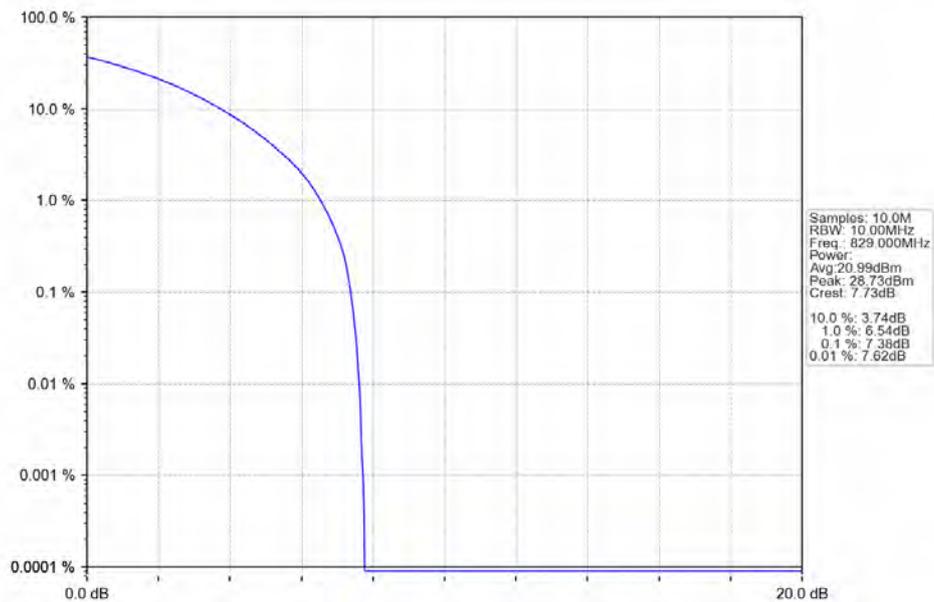
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DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:10MHz_LTE: QPSK NR: CP-OFDM 16 QAM_CC1:1745
CC2:844MHz_LTE: 1RB_Left_NR: Outer_Full_AntLTE 1



DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:10MHz_LTE: QPSK NR: CP-OFDM 64 QAM_CC1:1745
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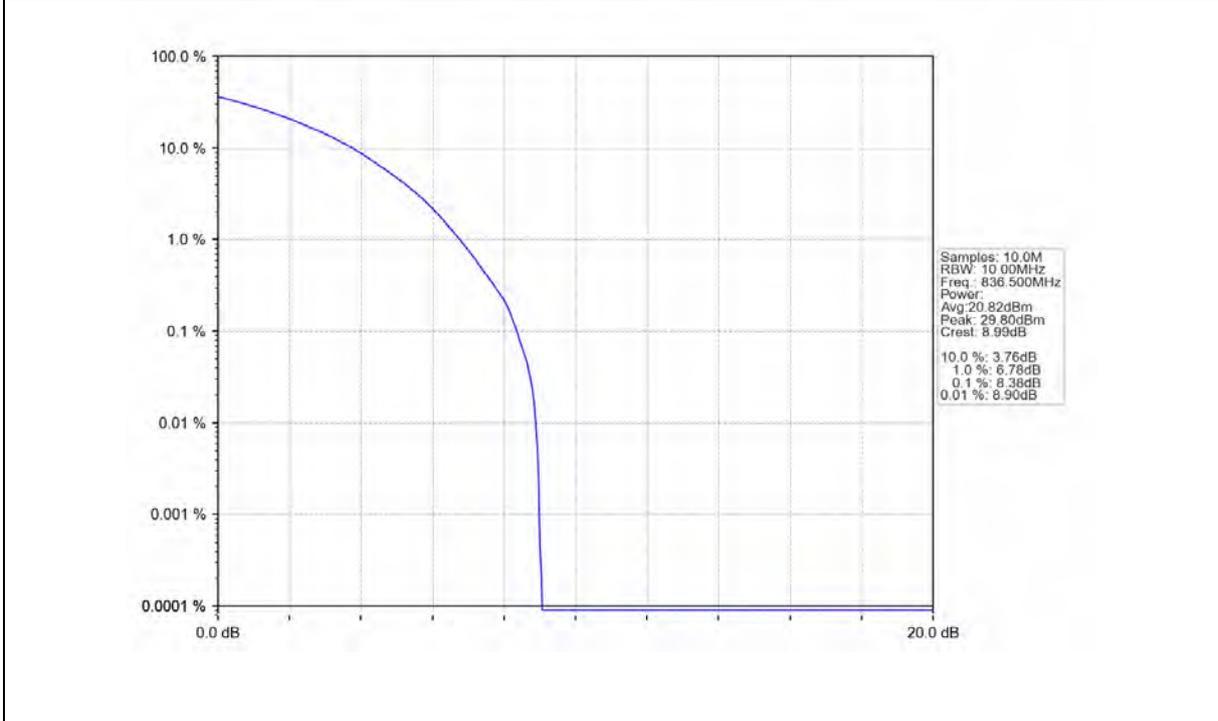




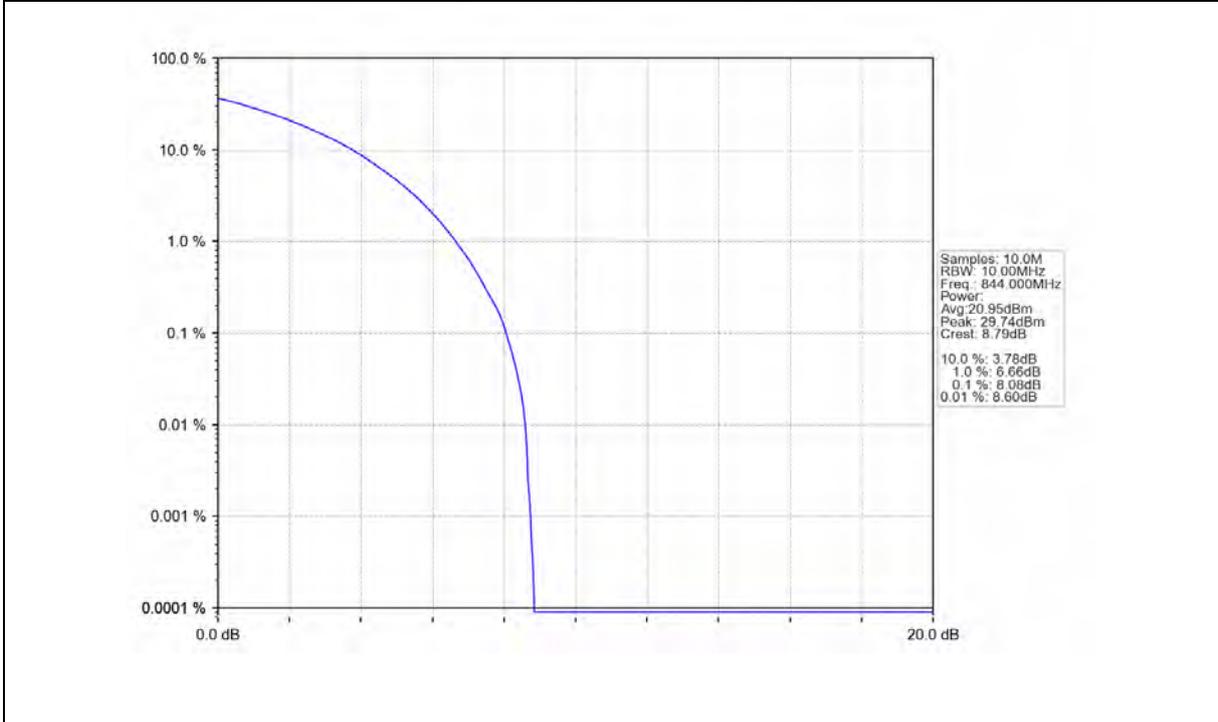
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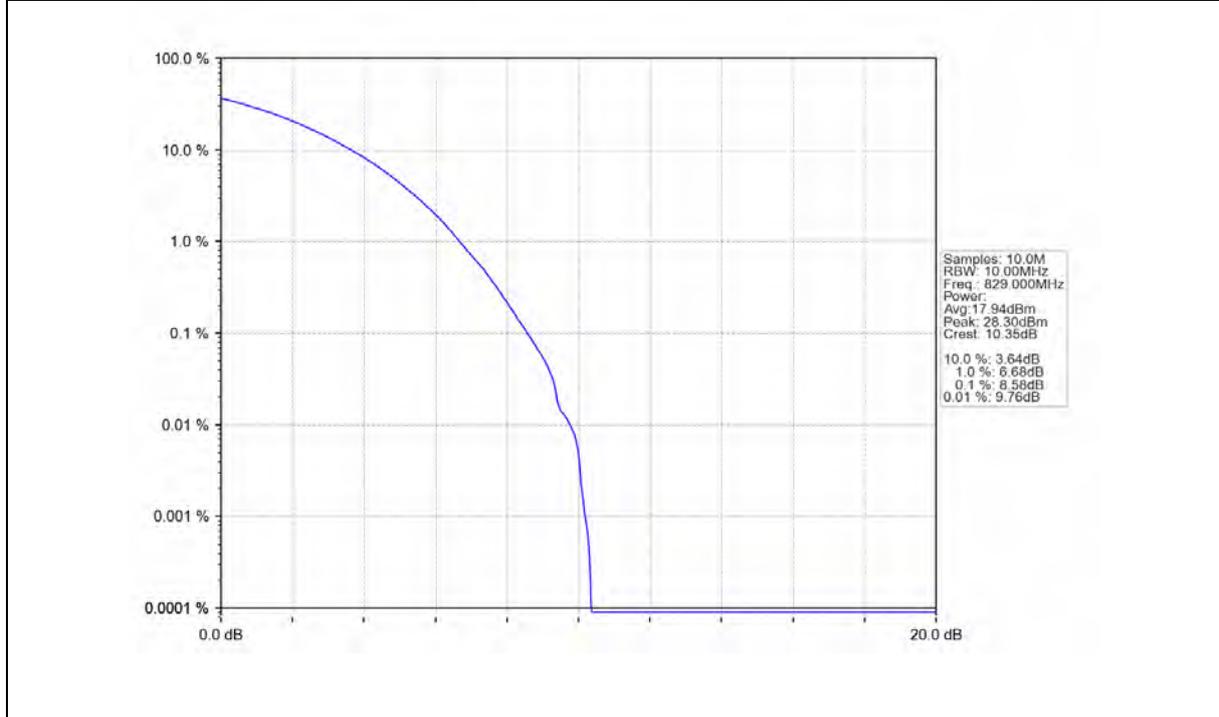
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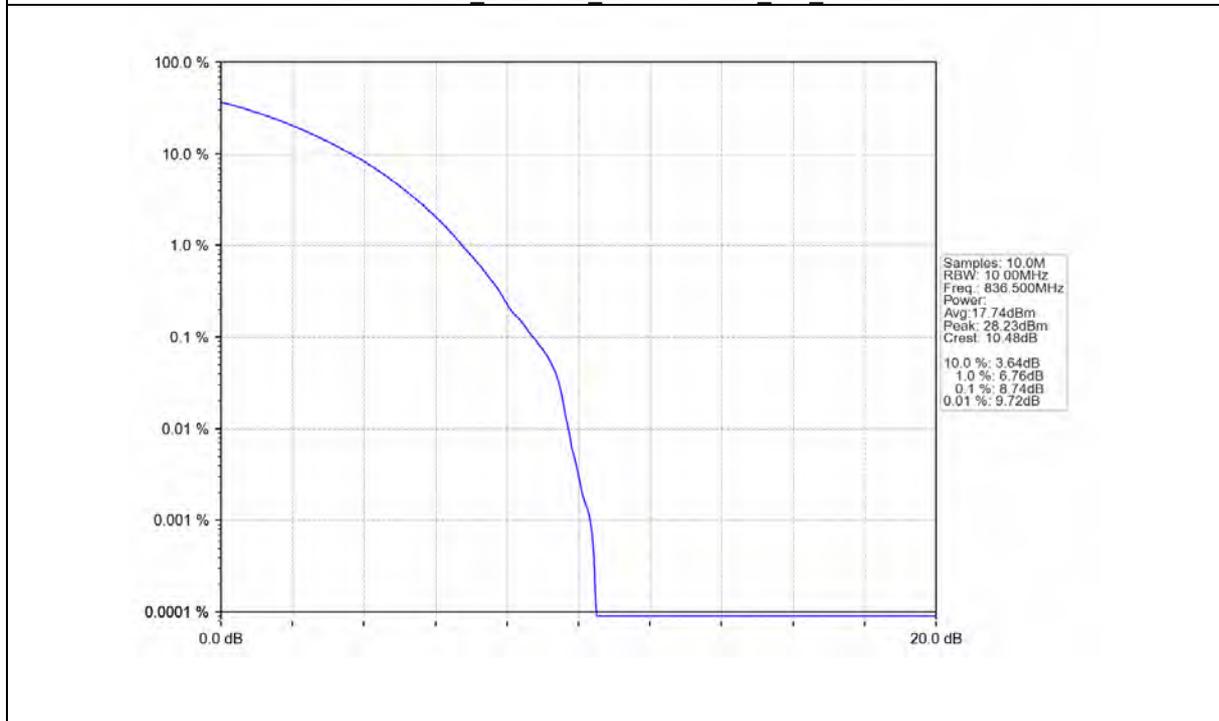
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DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:10MHz_LTE: QPSK NR: CP-OFDM 256 QAM_CC1:1745
CC2:829MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:10MHz_LTE: QPSK NR: CP-OFDM 256 QAM_CC1:1745
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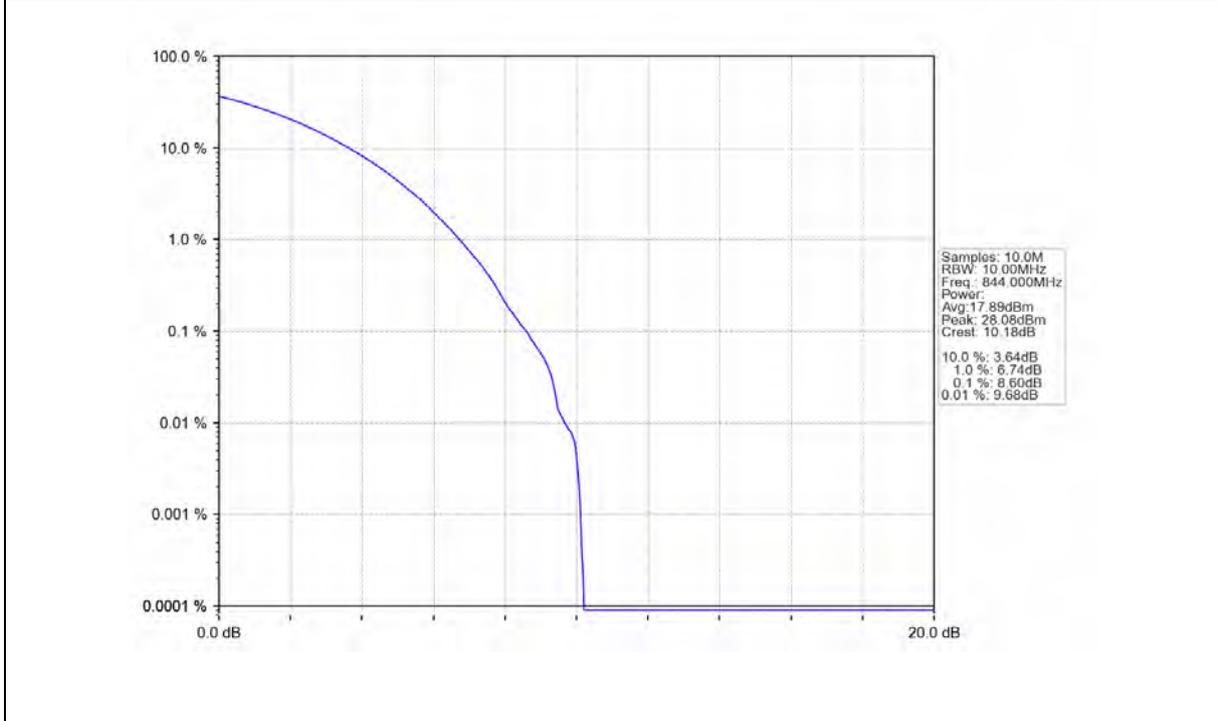




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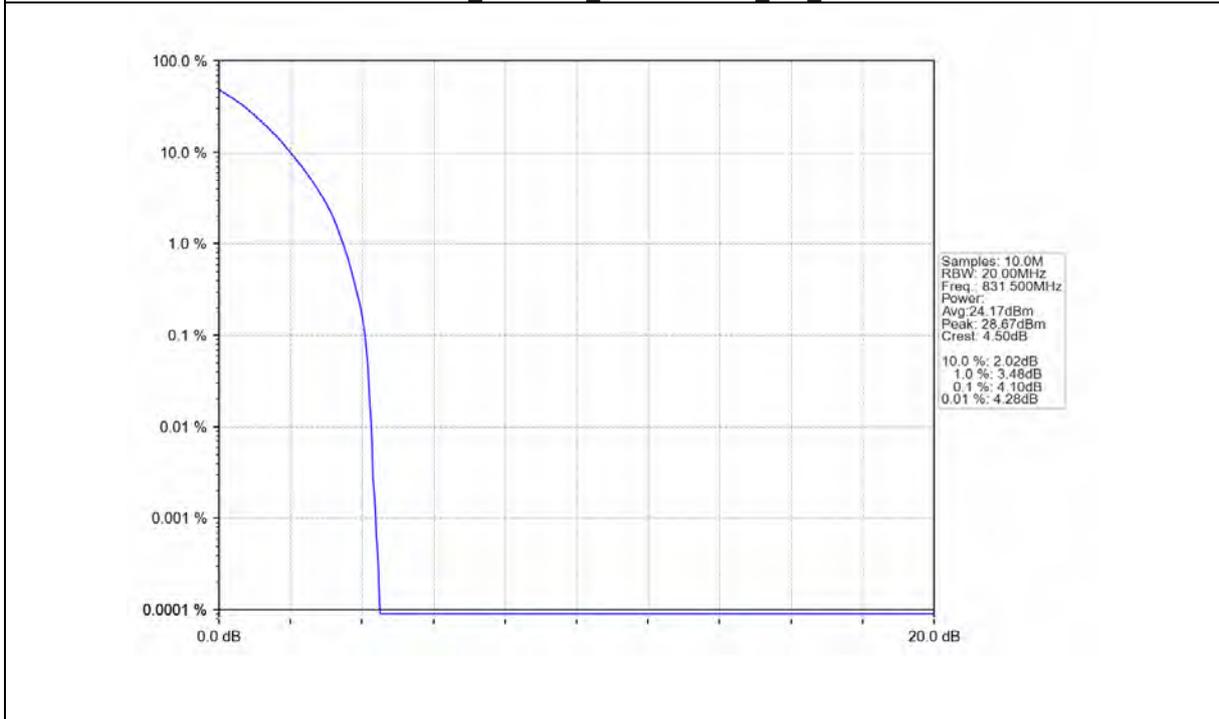
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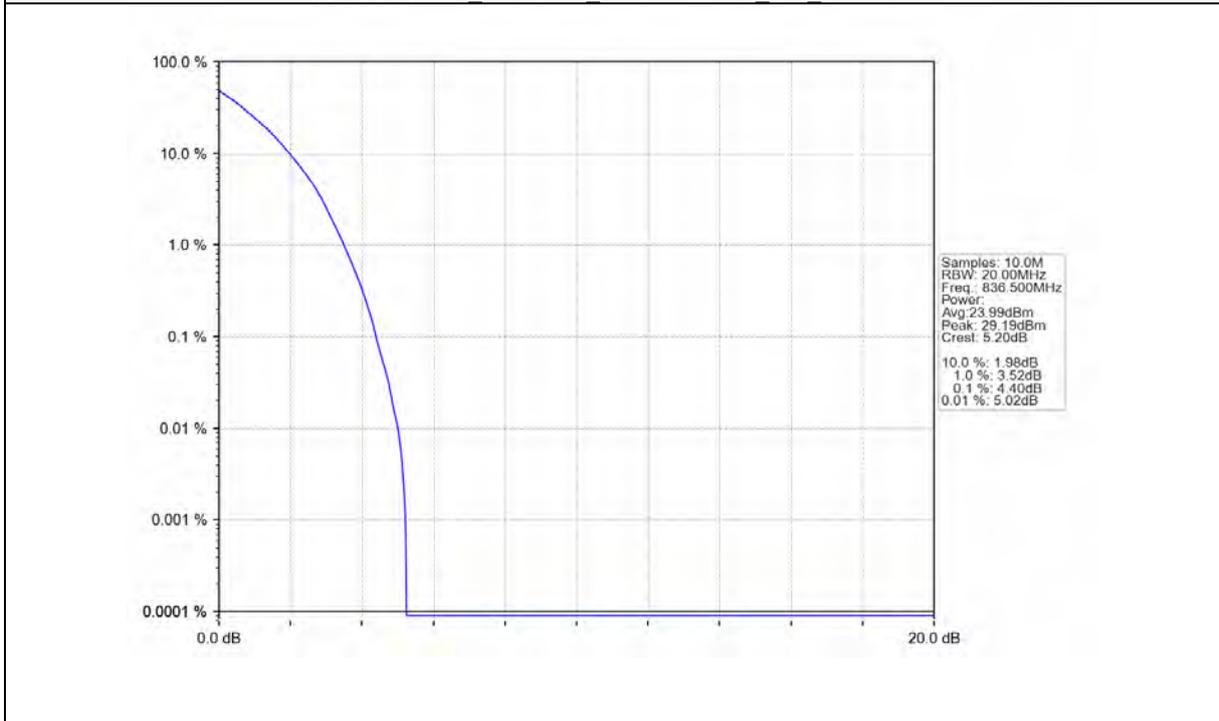


3.2.3 15k_SISO_15MHz_NTNV

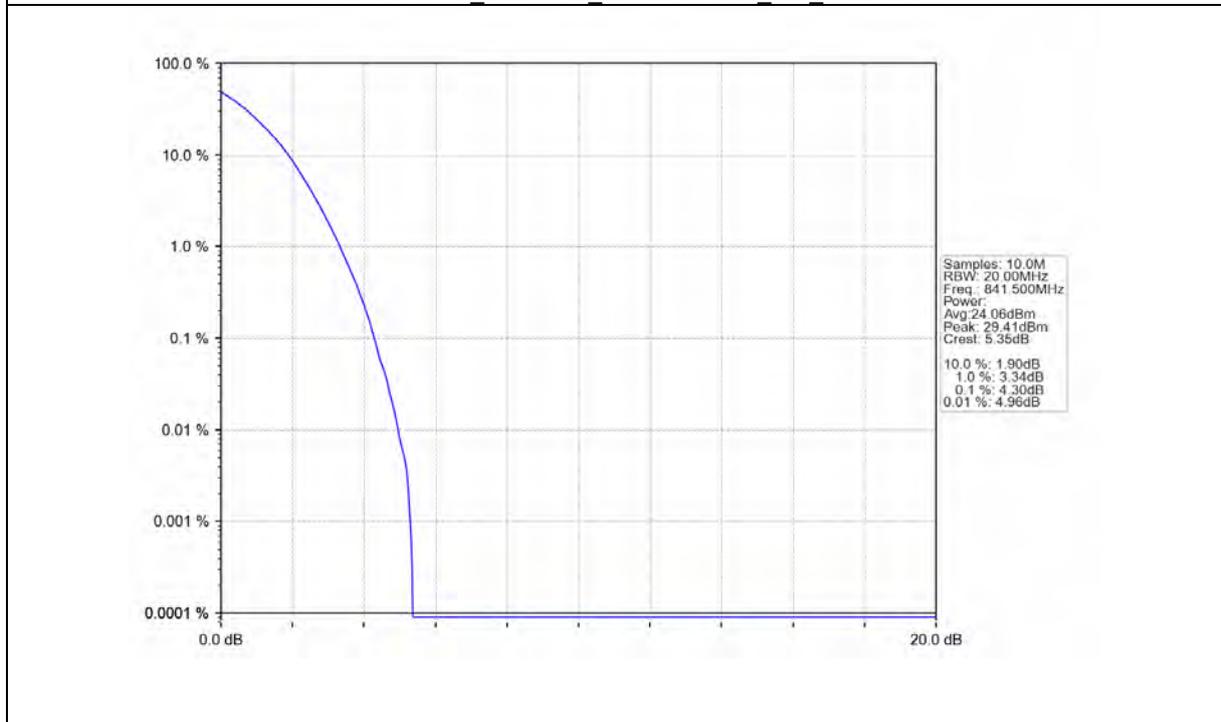
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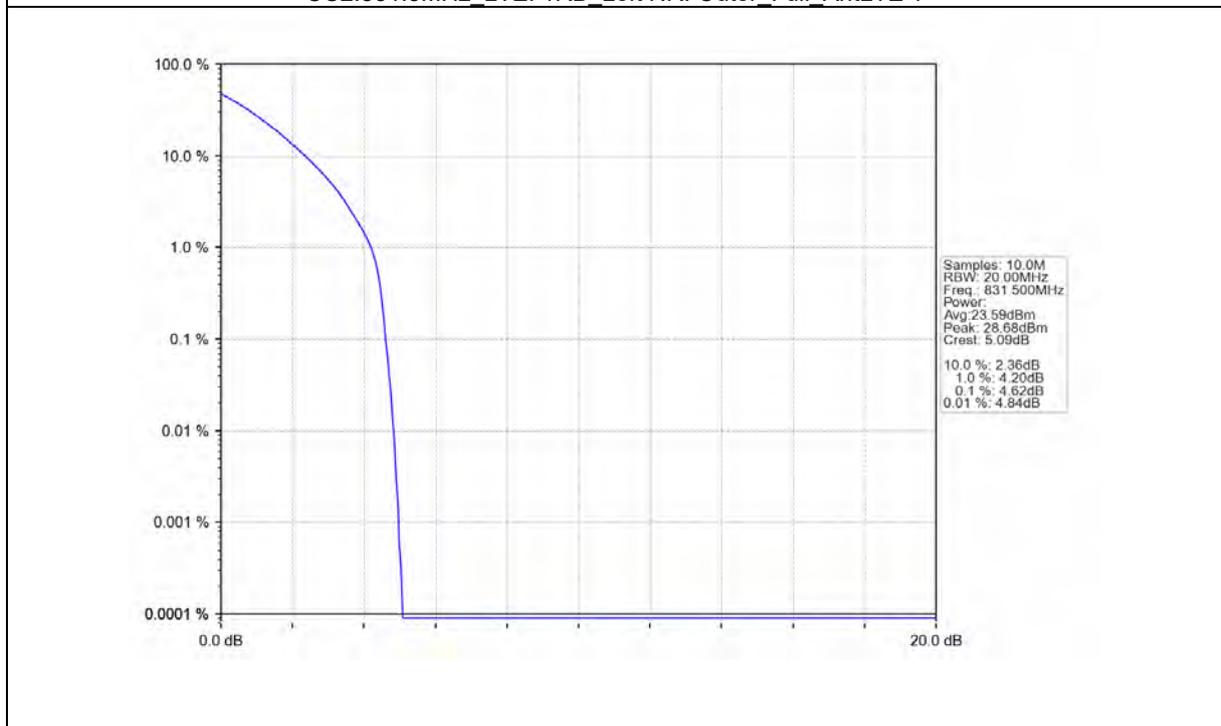
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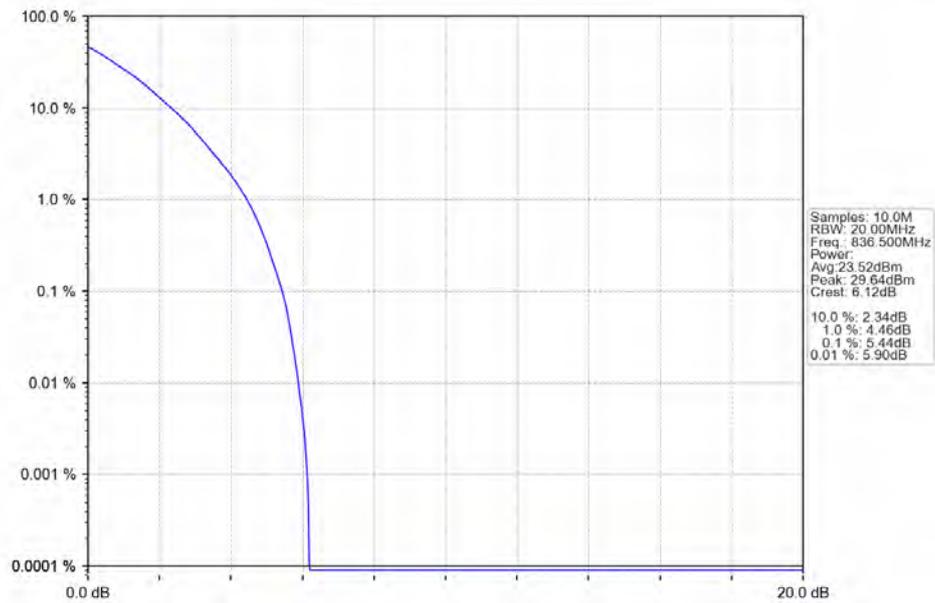
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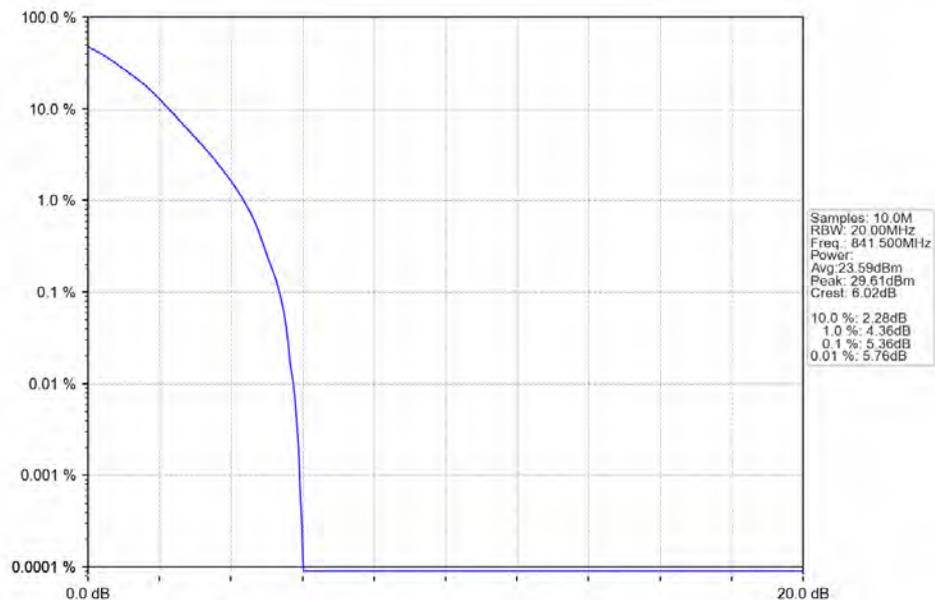
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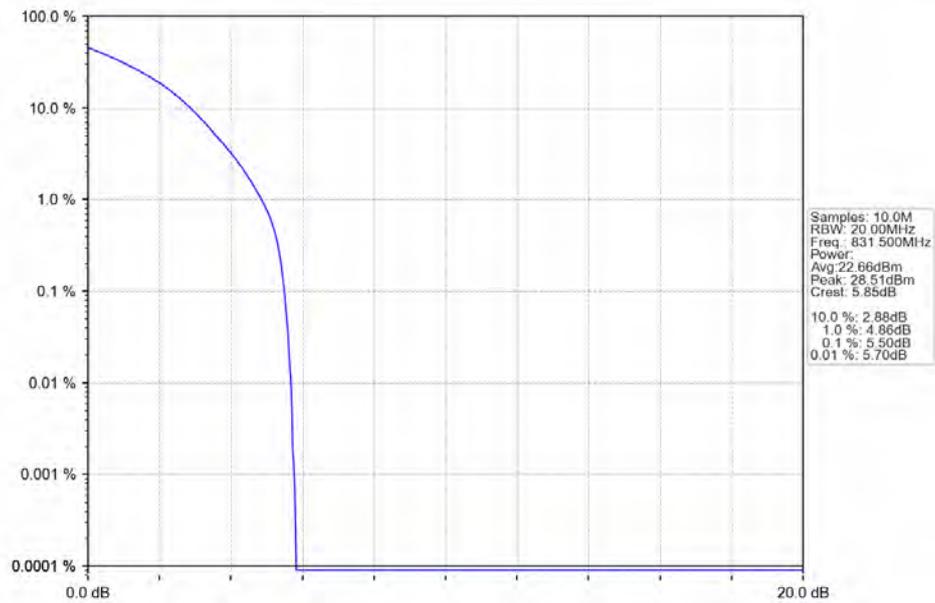
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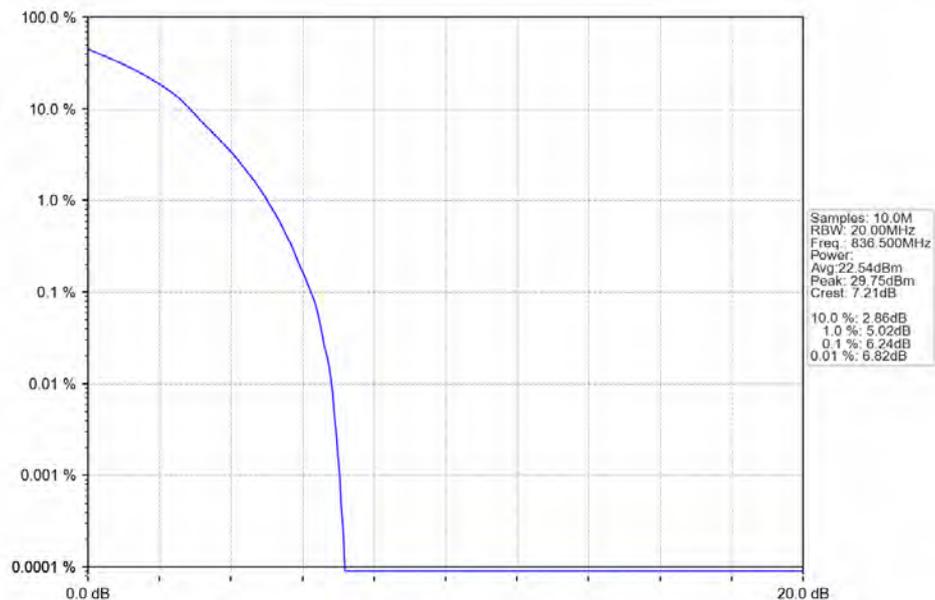
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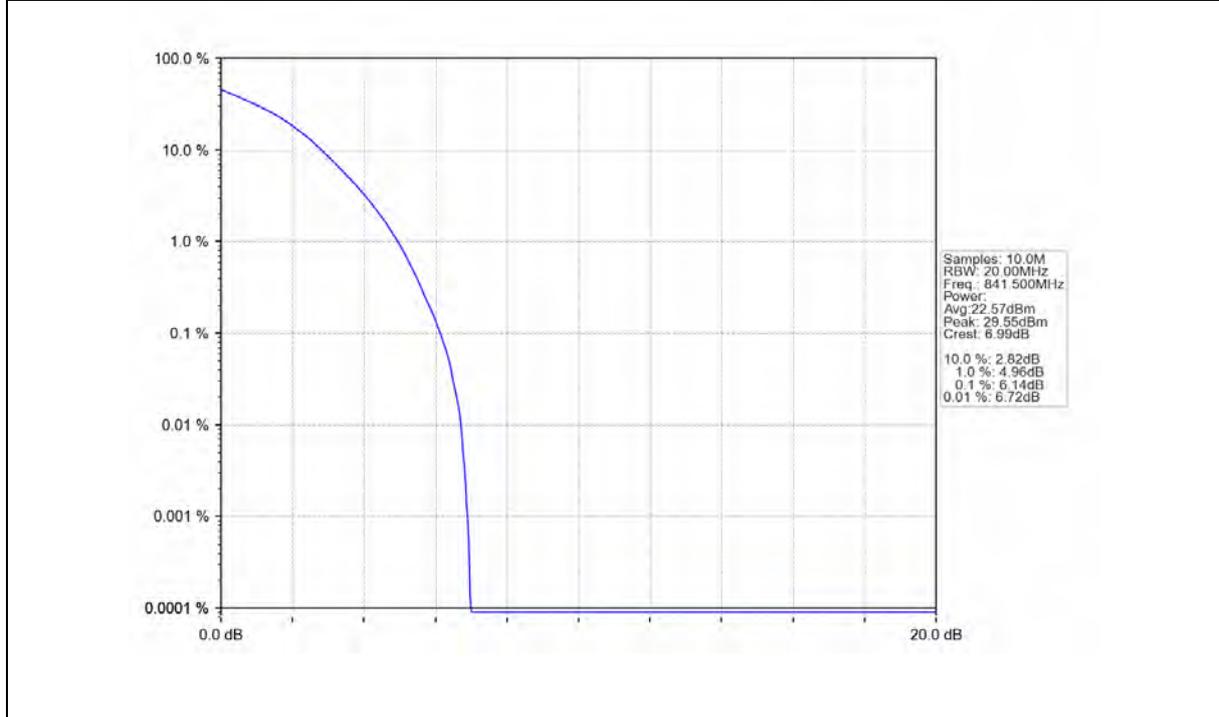
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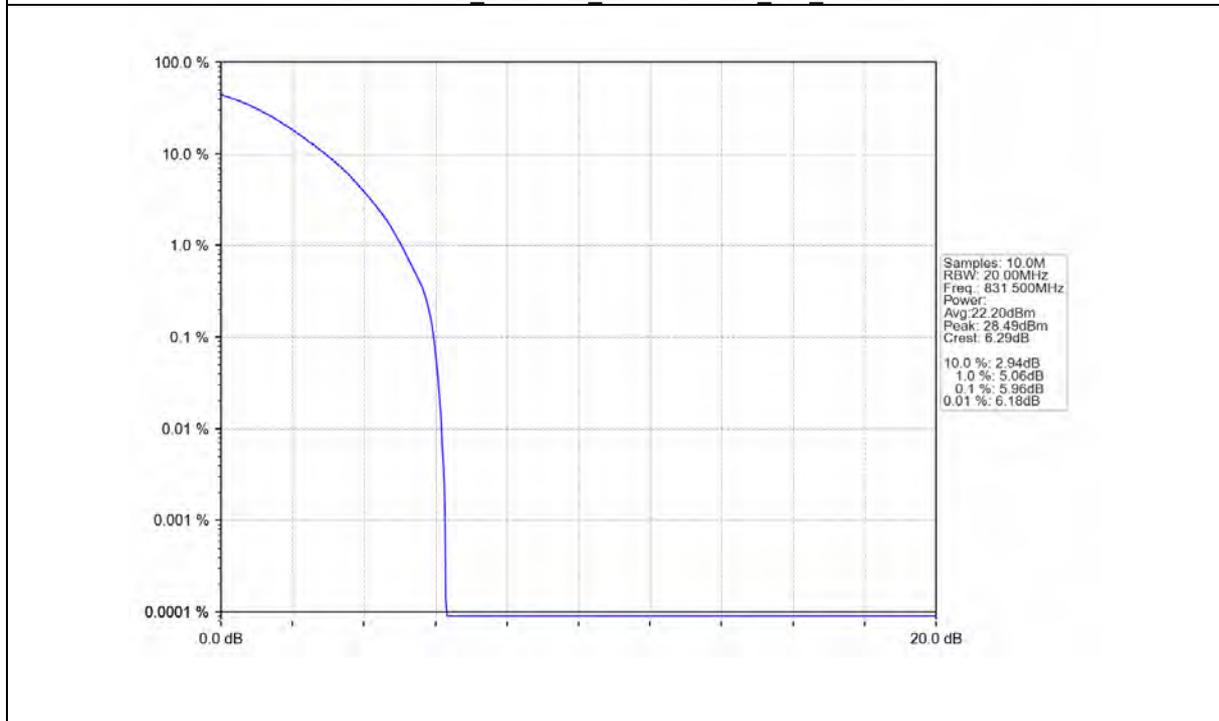
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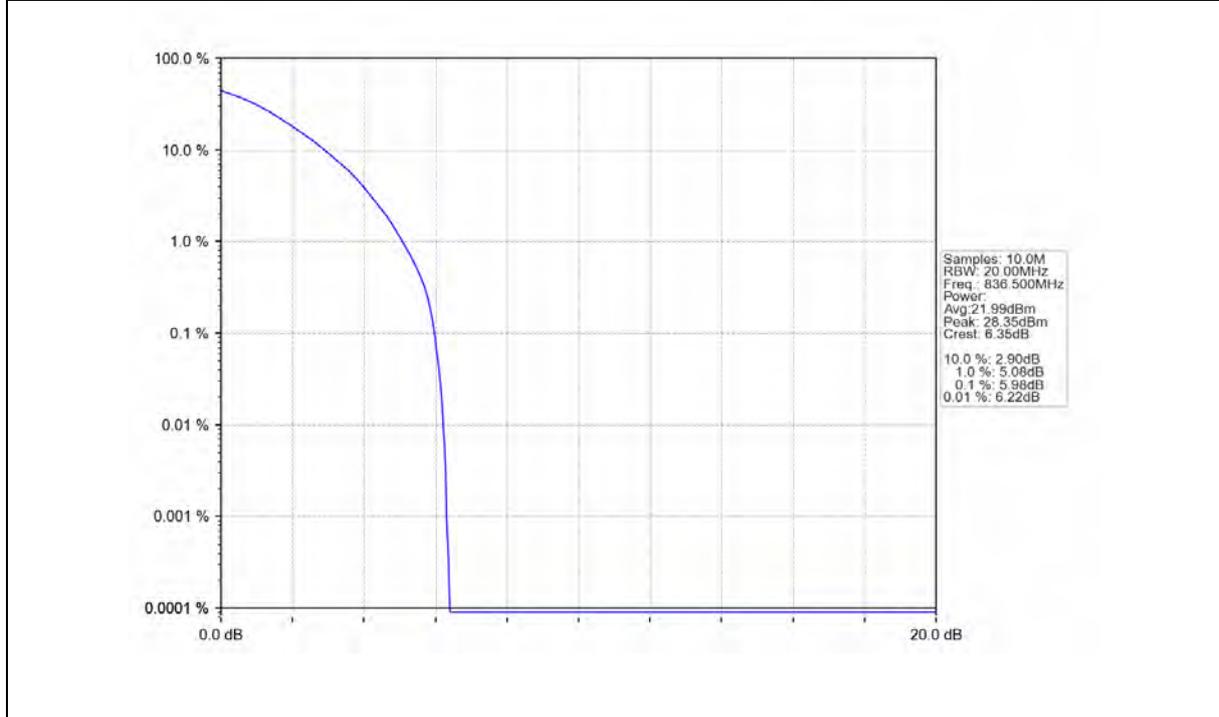
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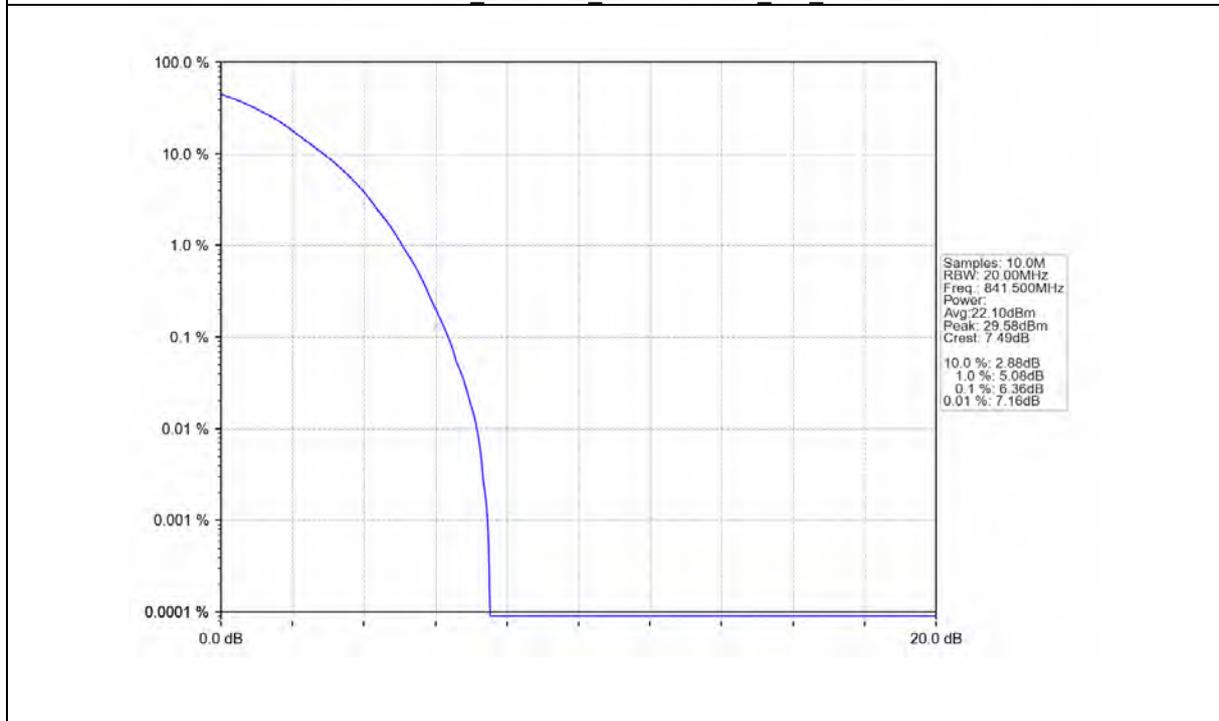
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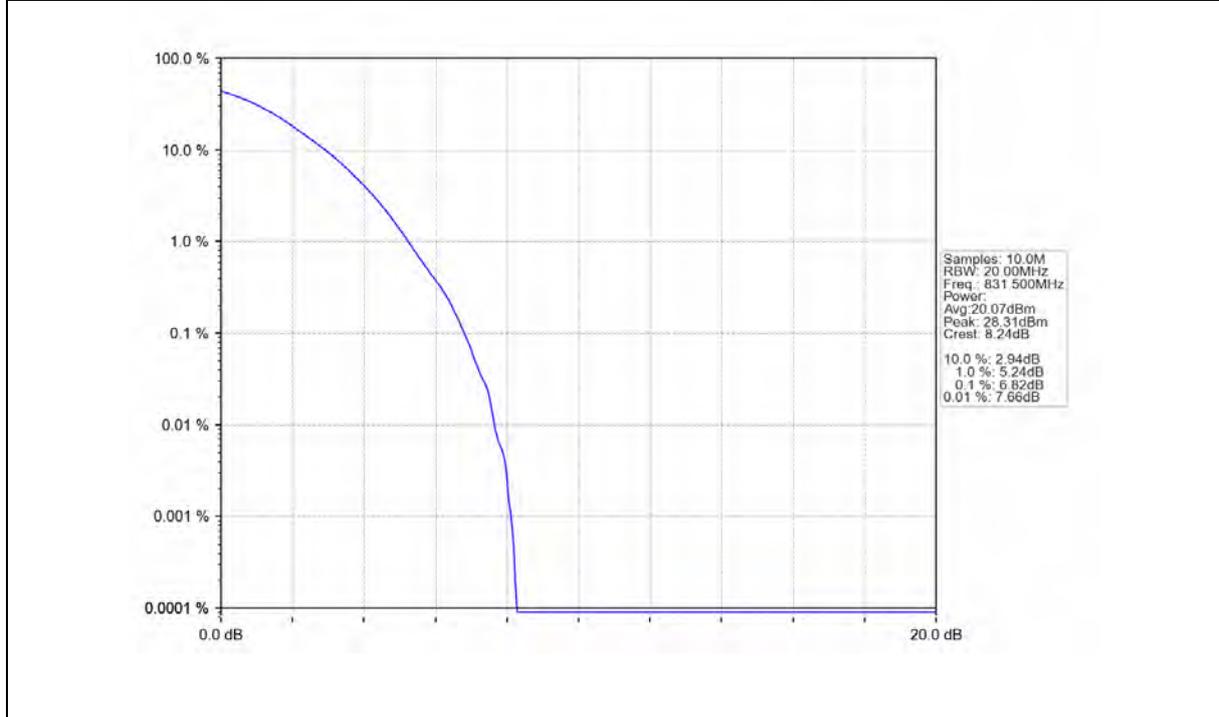
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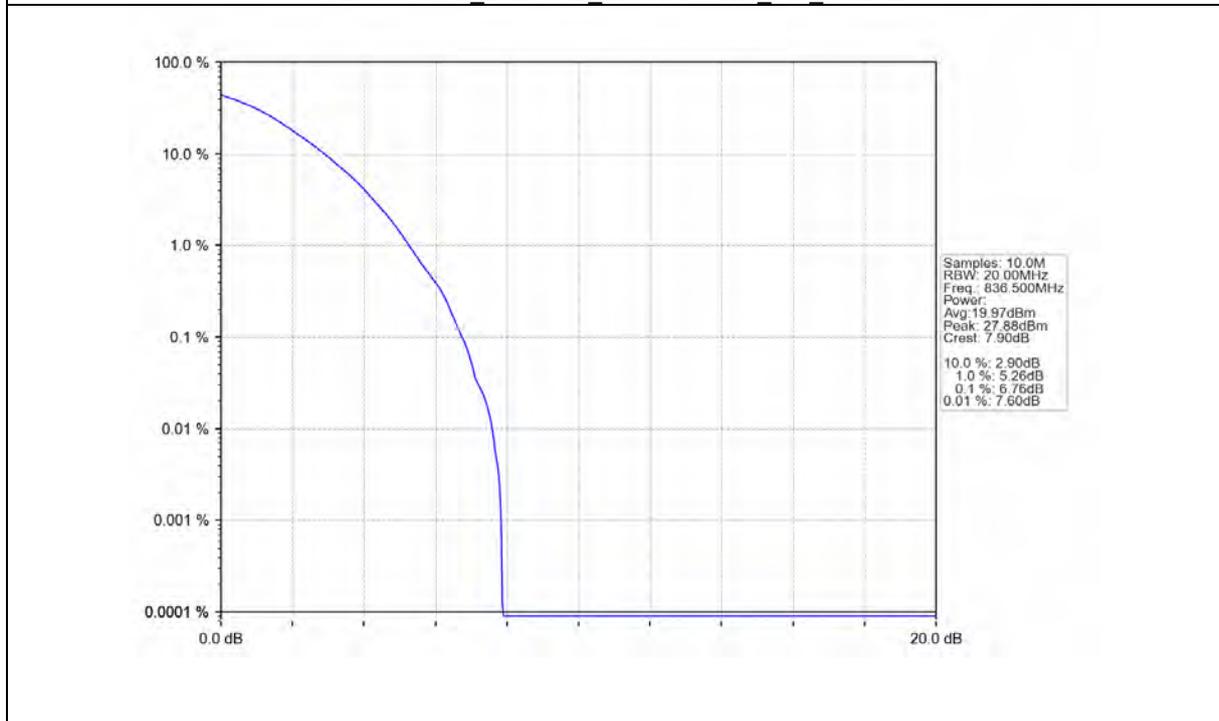
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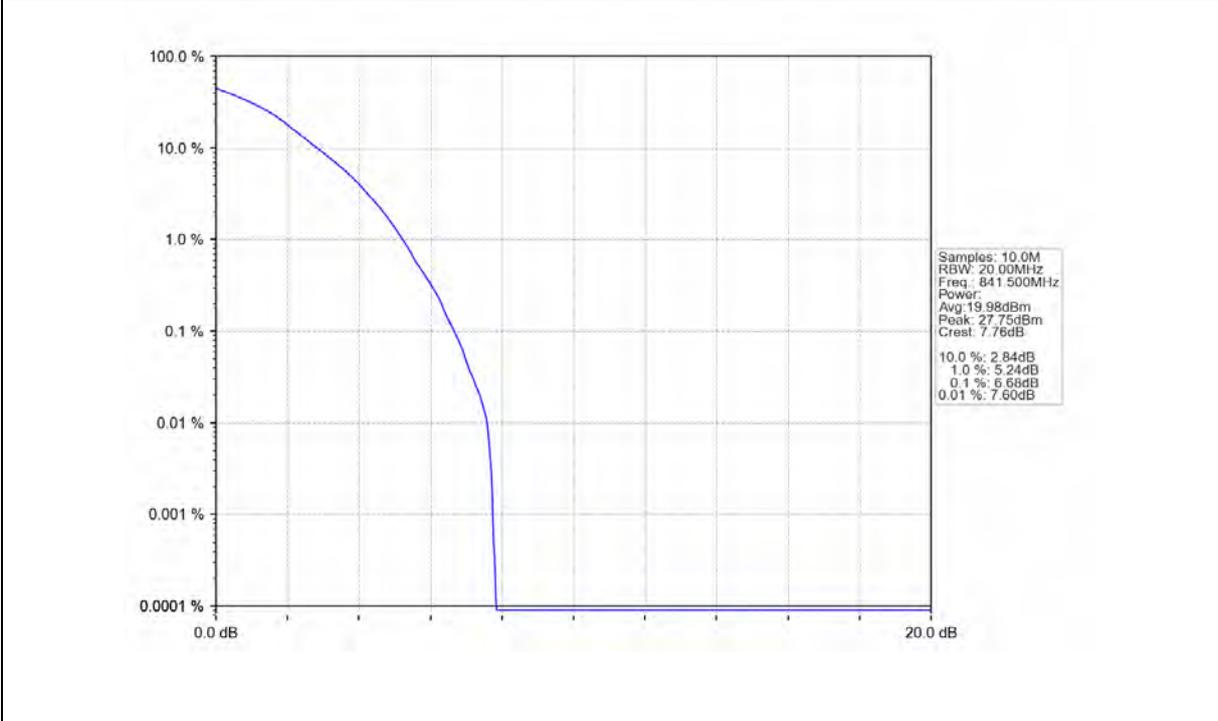




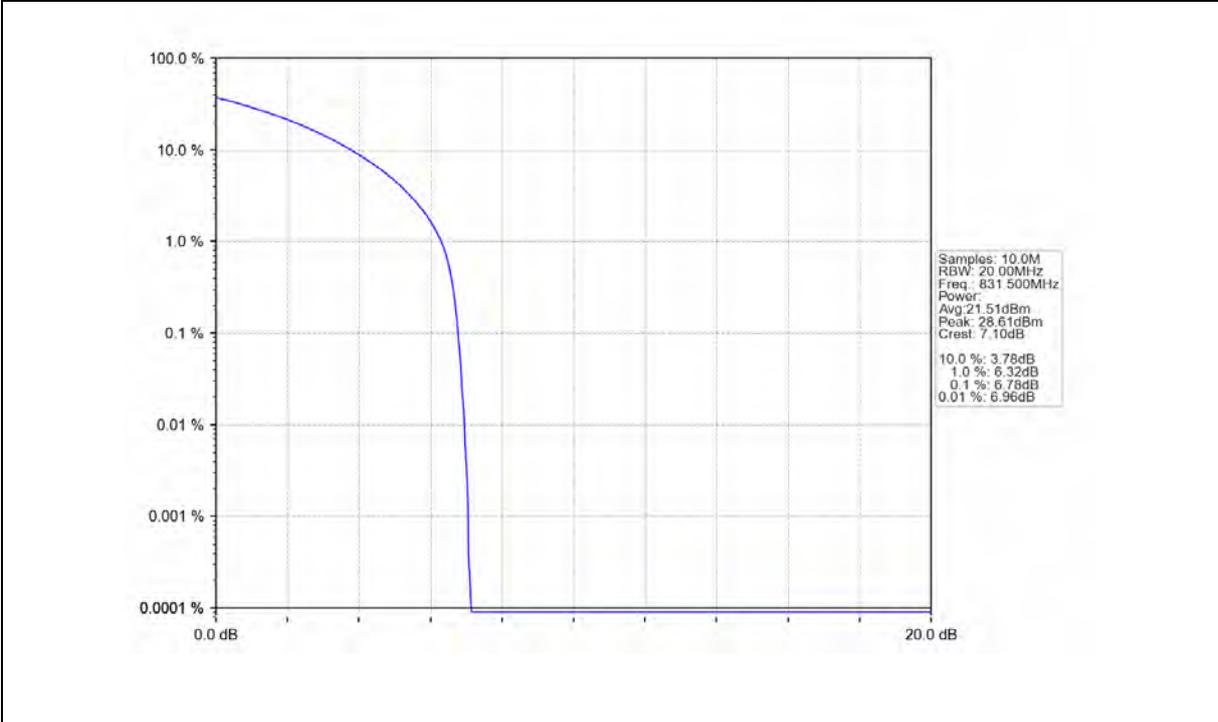
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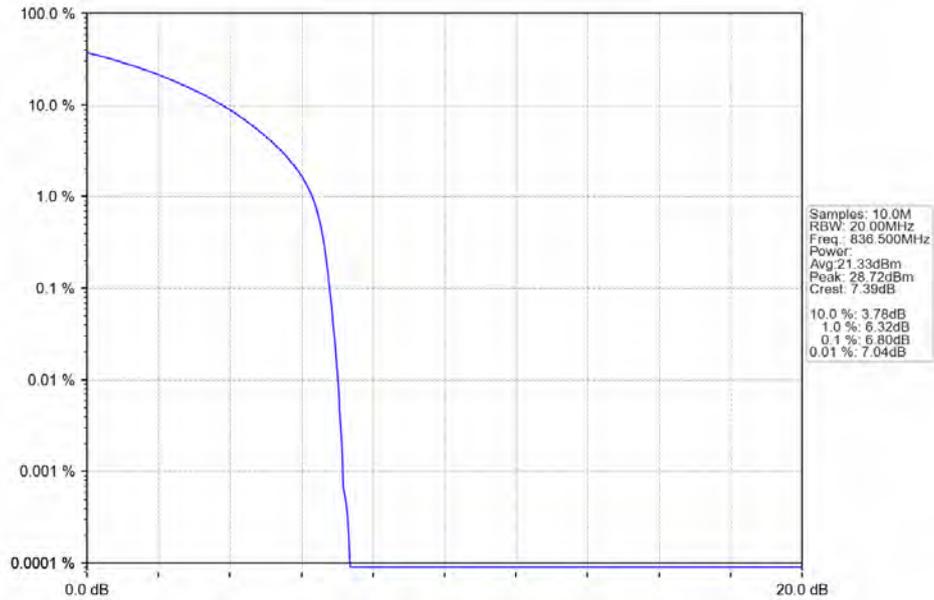
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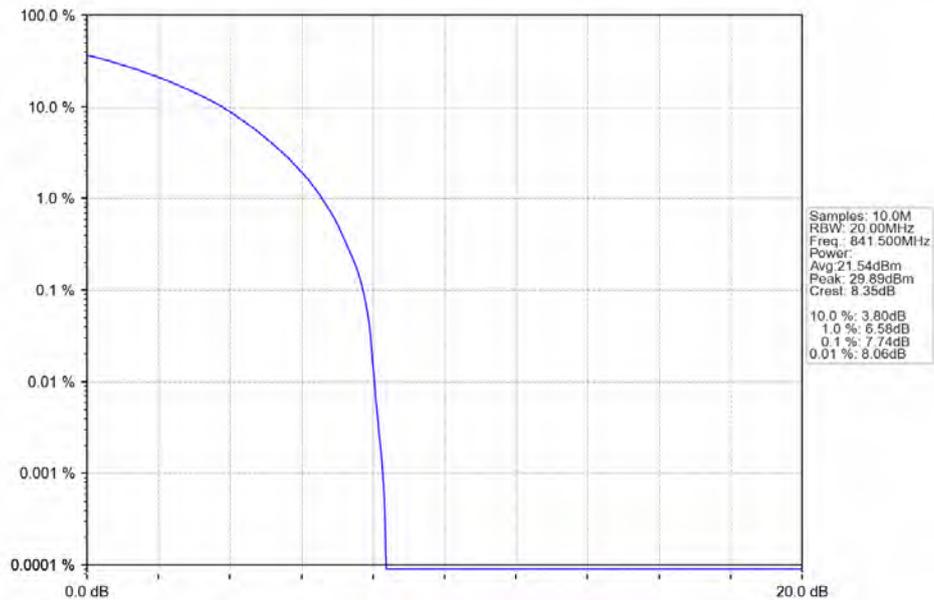
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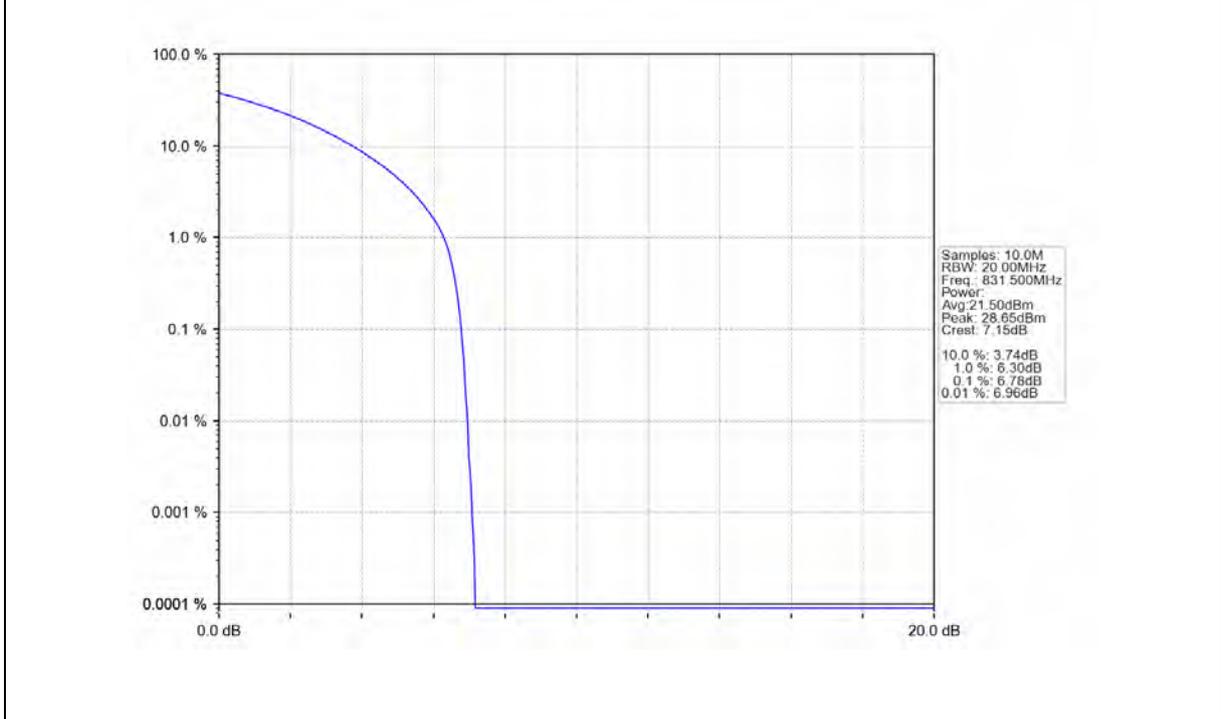




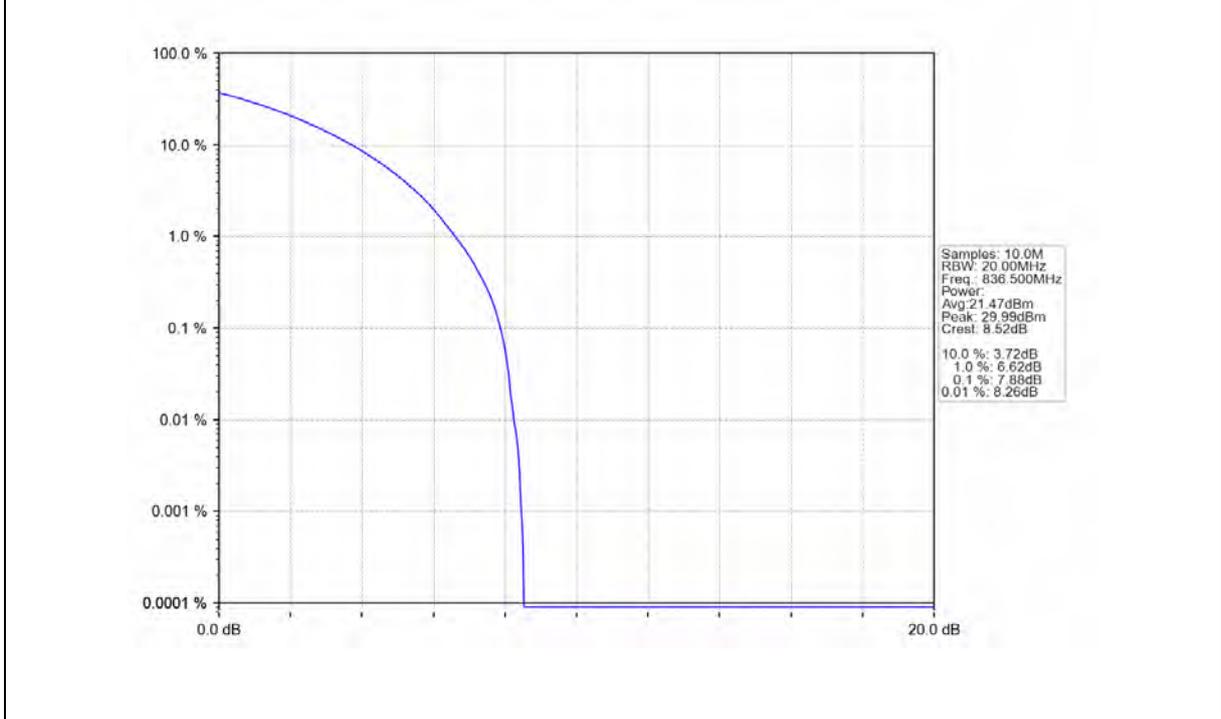
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CC2:831.5MHz_LTE: 1RB_Left_NR: Outer_Full_AntLTE 1



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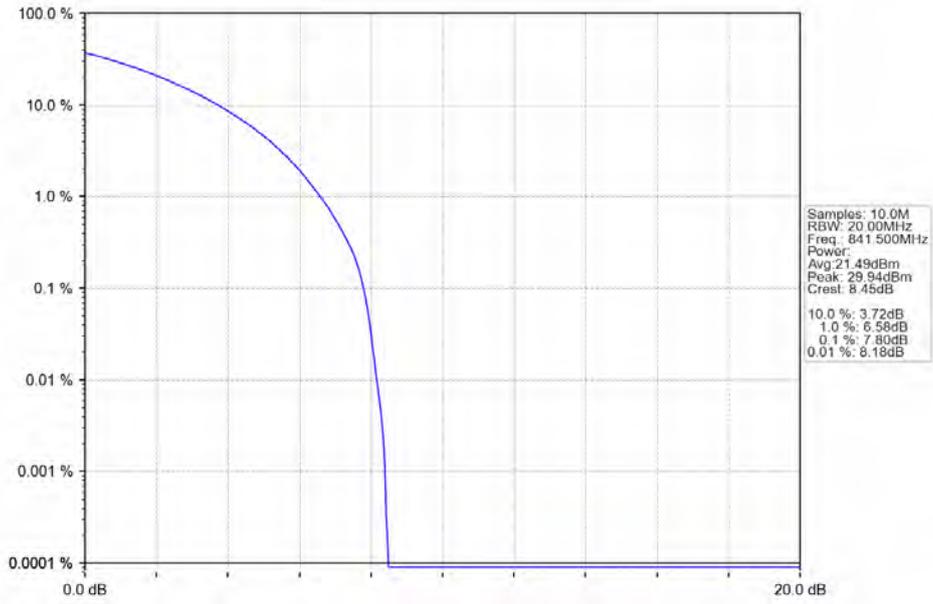




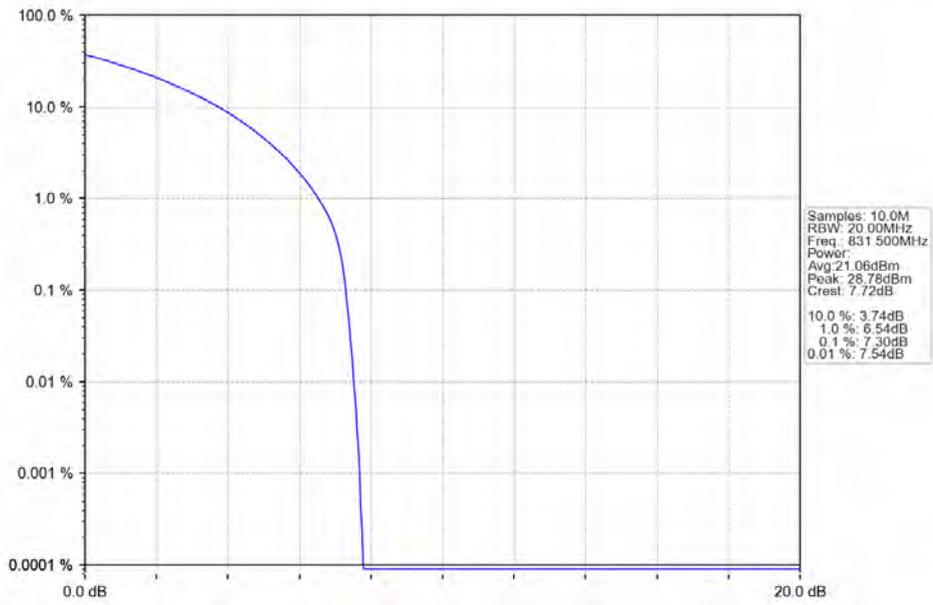
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CC2:841.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



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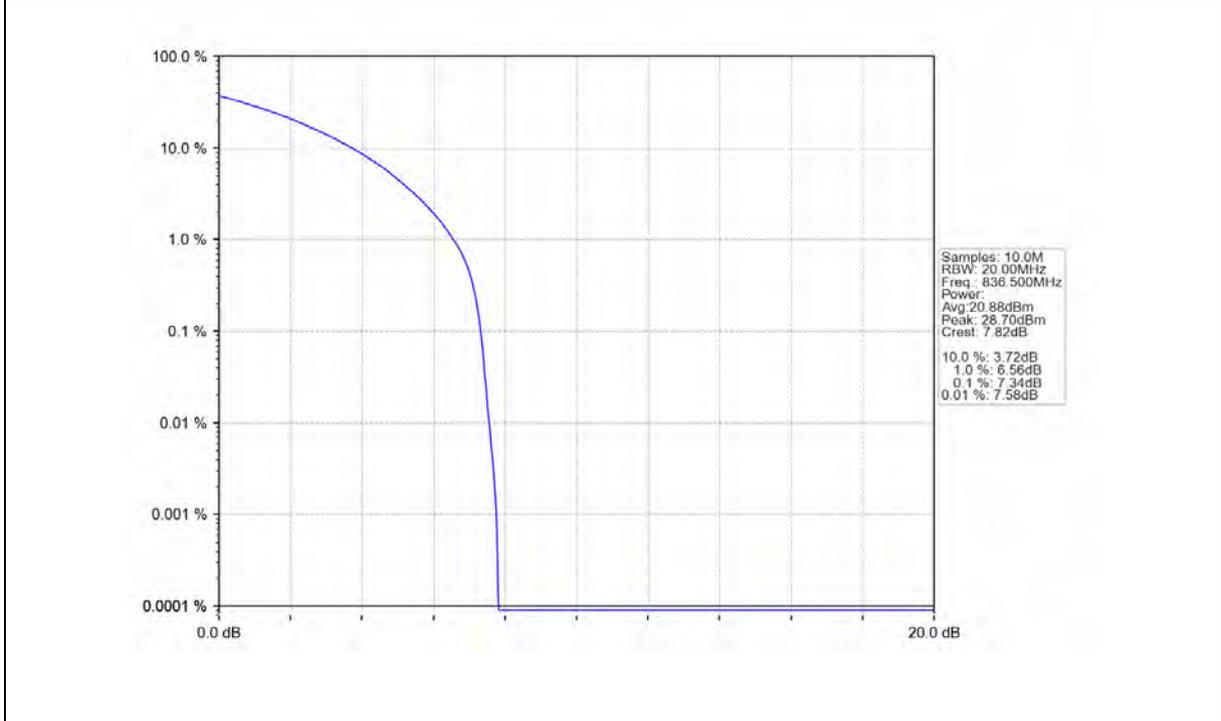




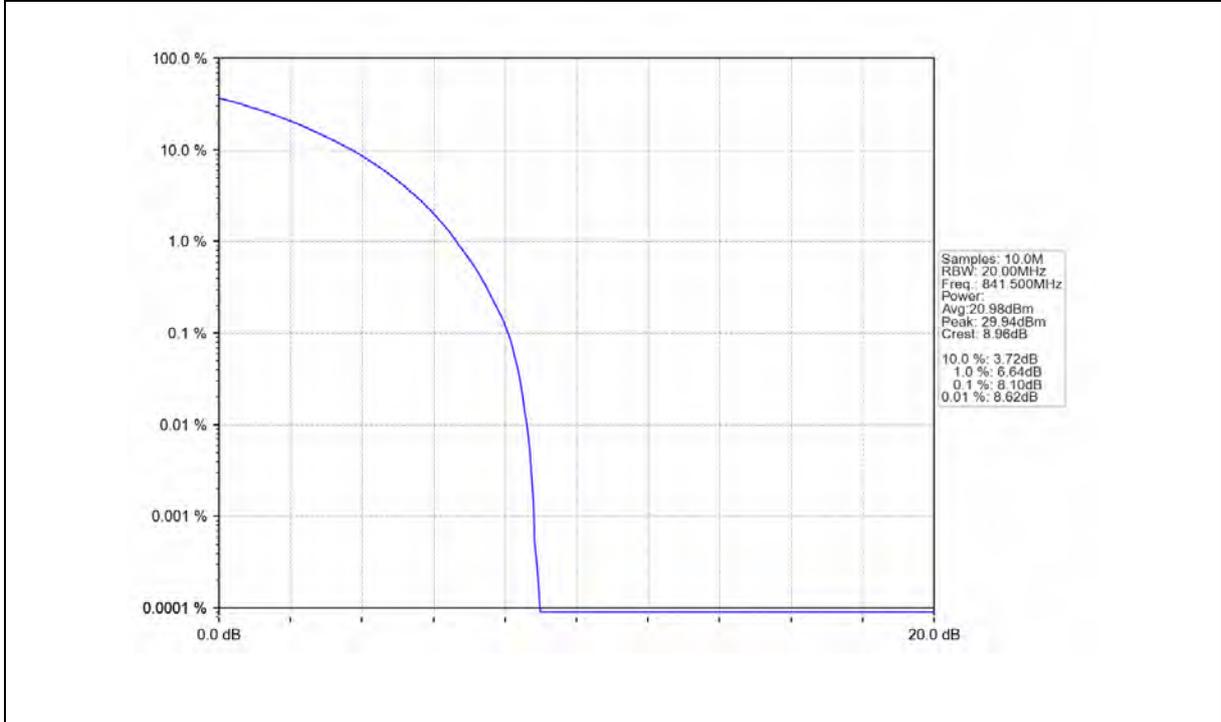
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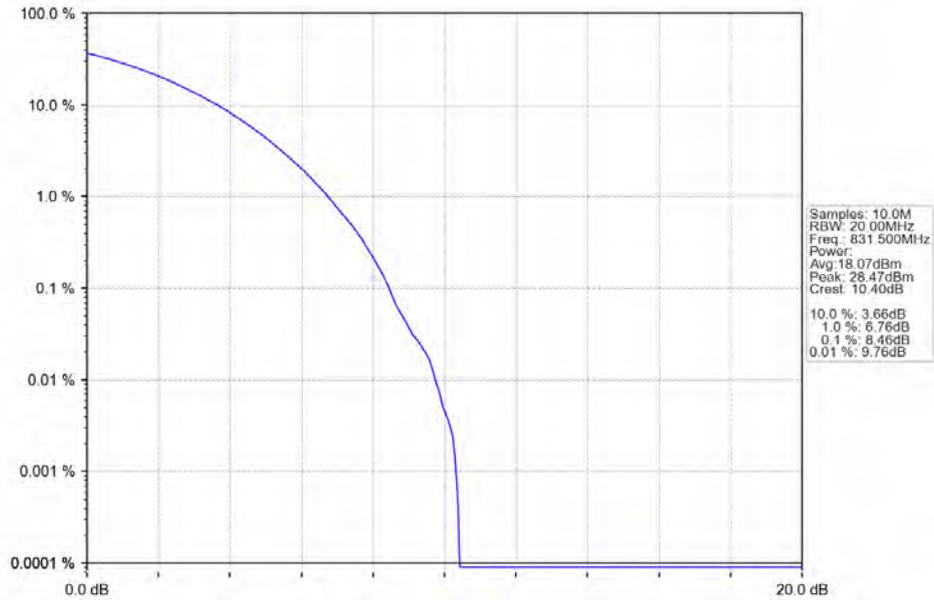
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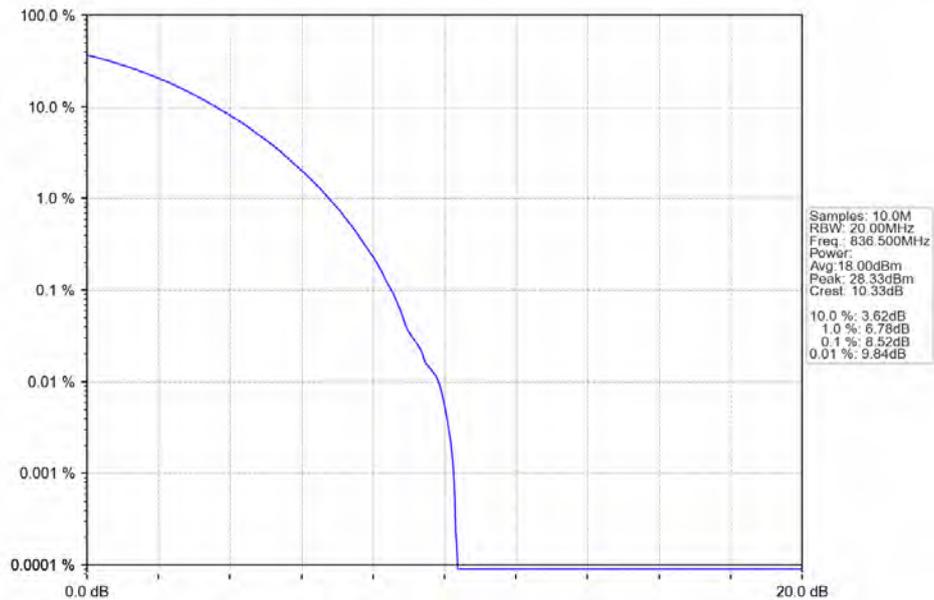
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DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:15MHz_LTE: QPSK NR: CP-OFDM 256 QAM_CC1:1745
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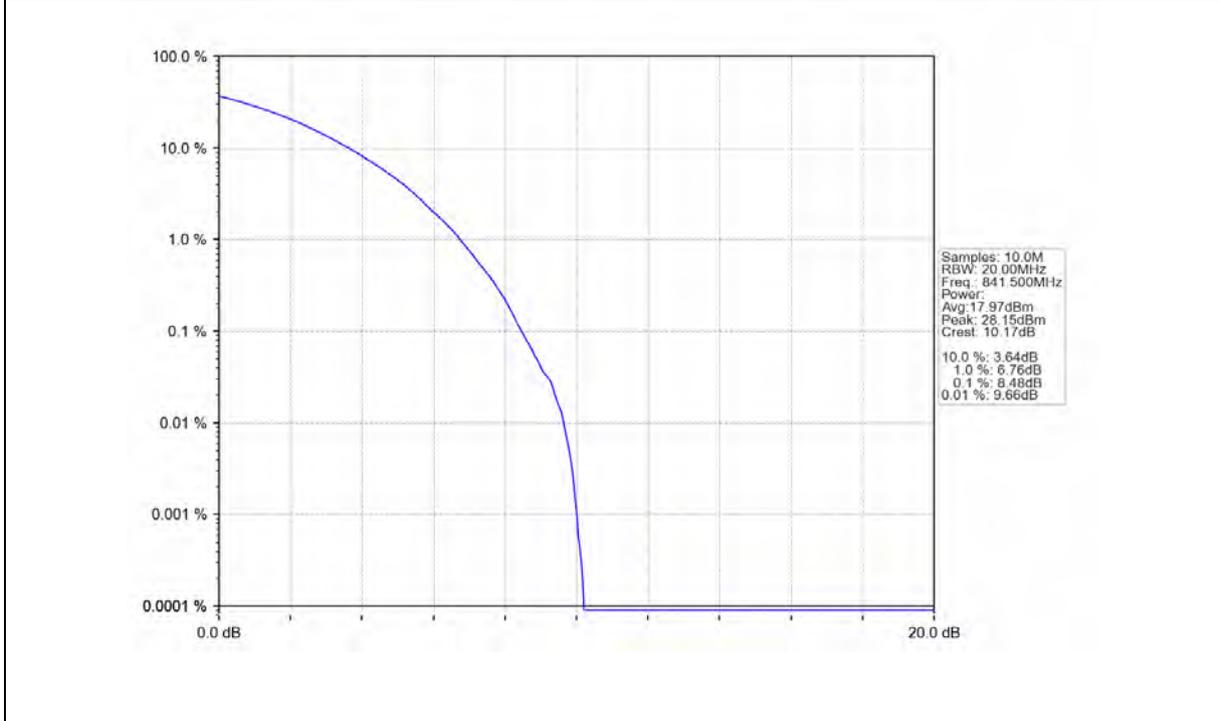




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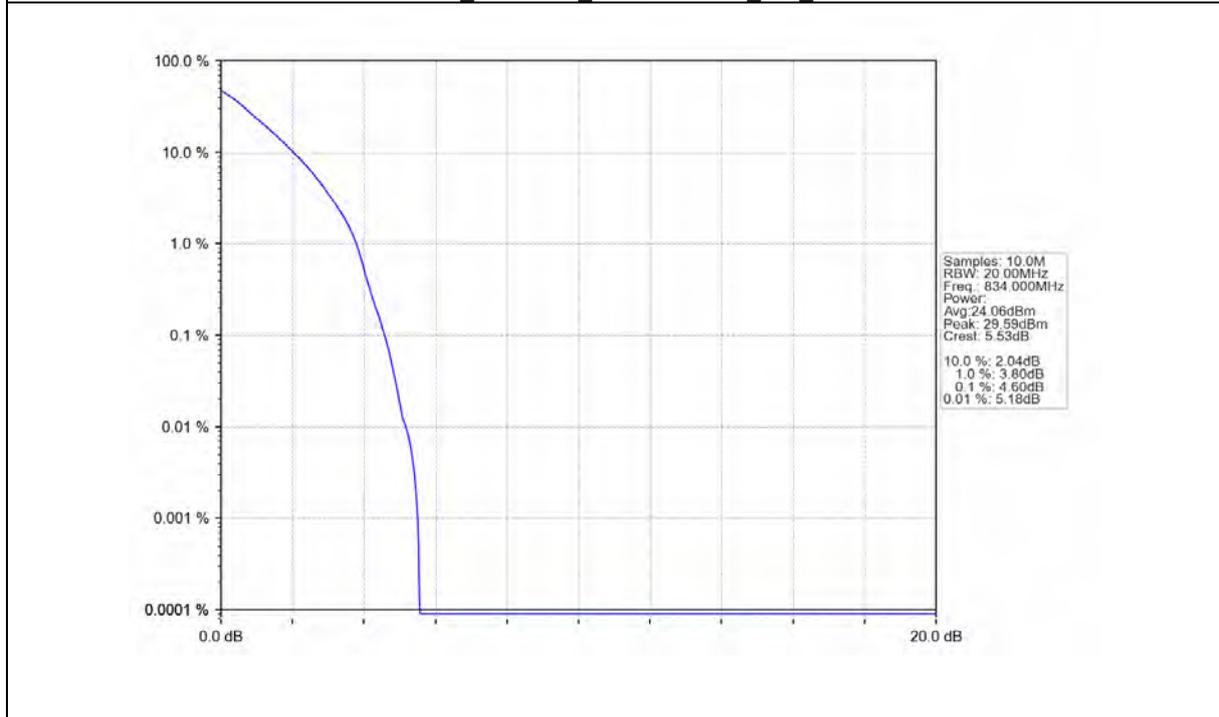
Test Report No.: PSU-NQN2504150110RF05

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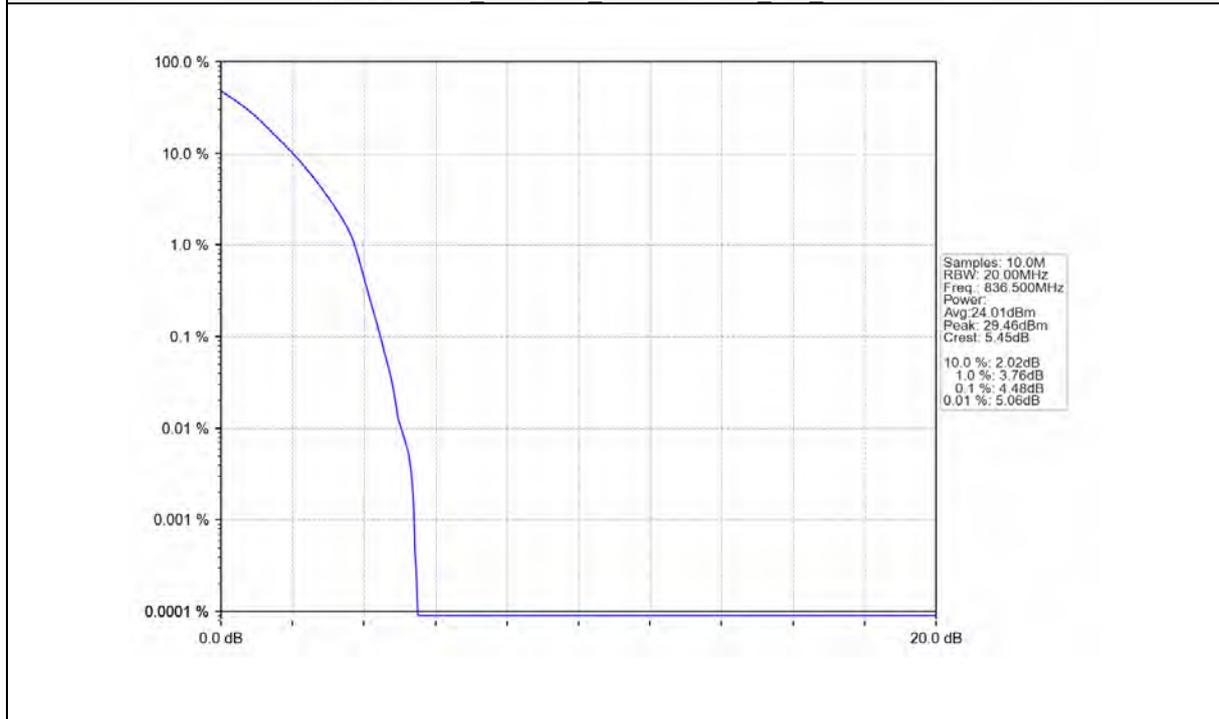


3.2.4 15k_SISO_20MHz_NTNV

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CC2:834MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:20MHz_LTE: QPSK NR: DFT-s-OFDM PI/2 BPSK_CC1:1745
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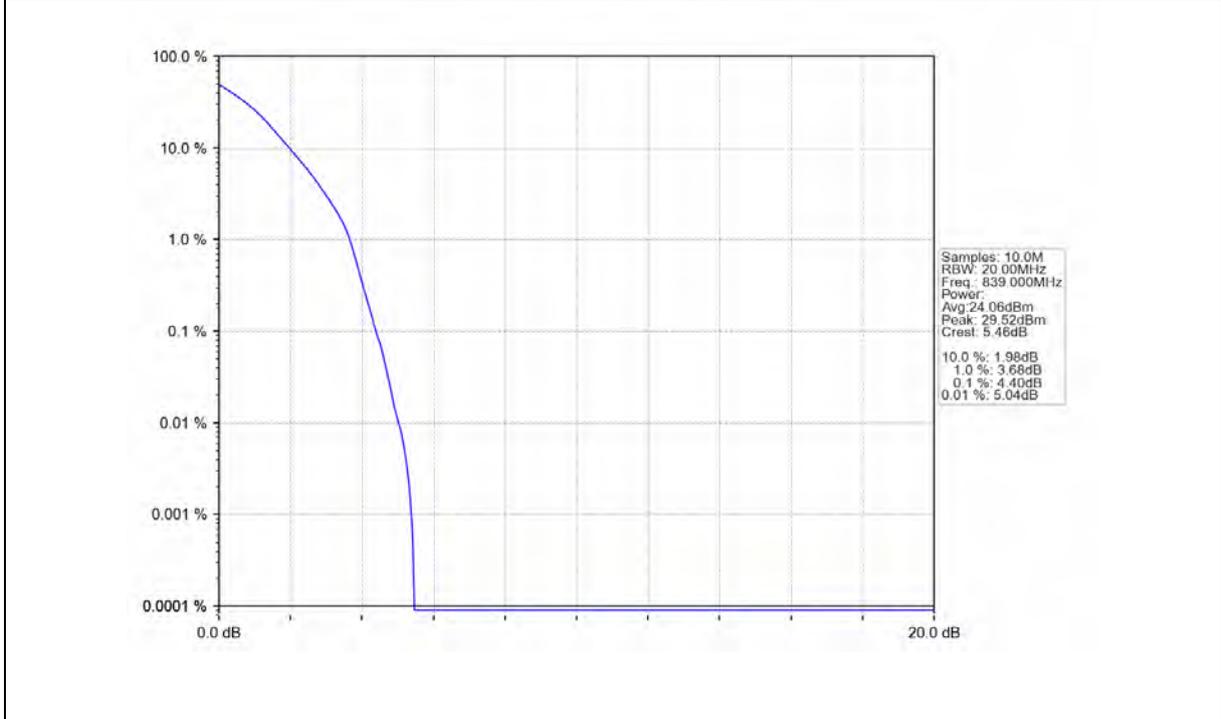




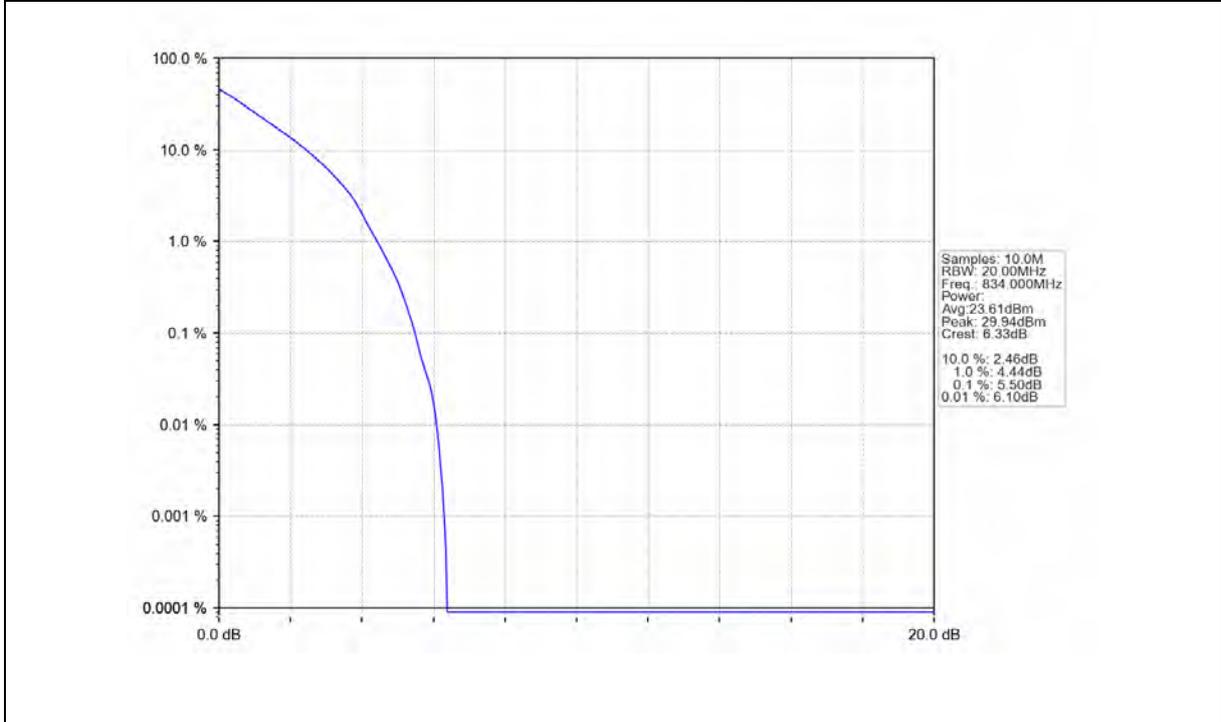
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CC2:839MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



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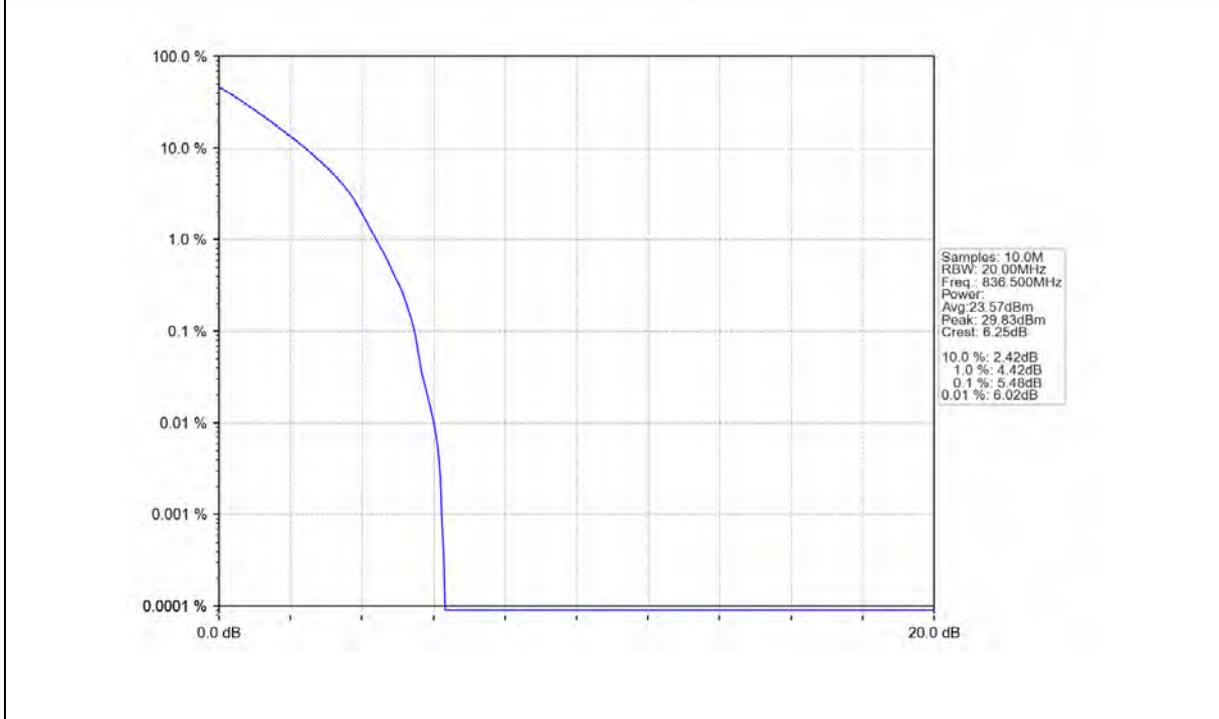




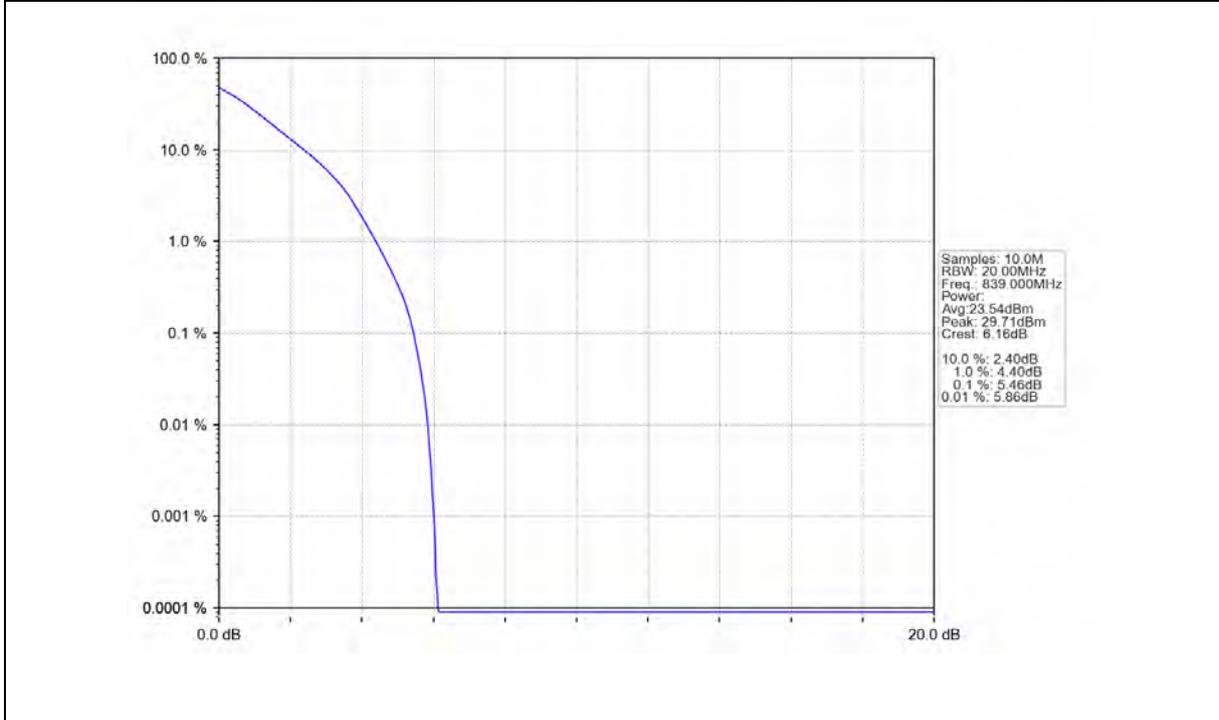
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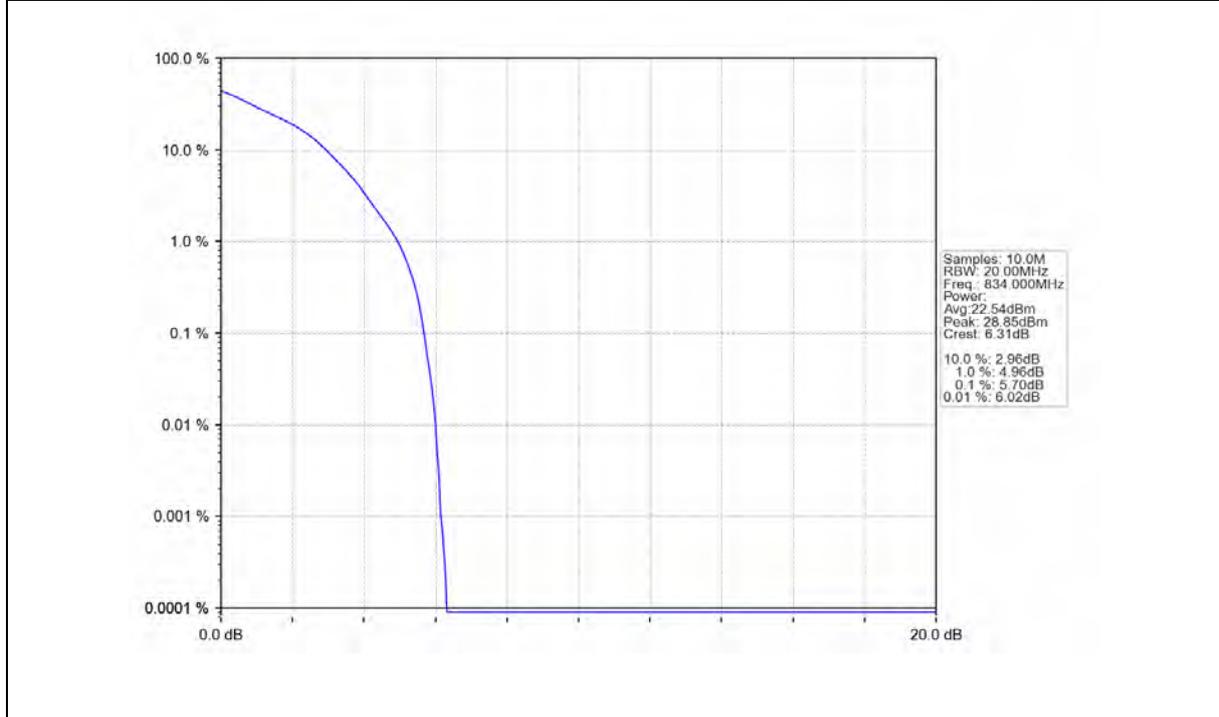
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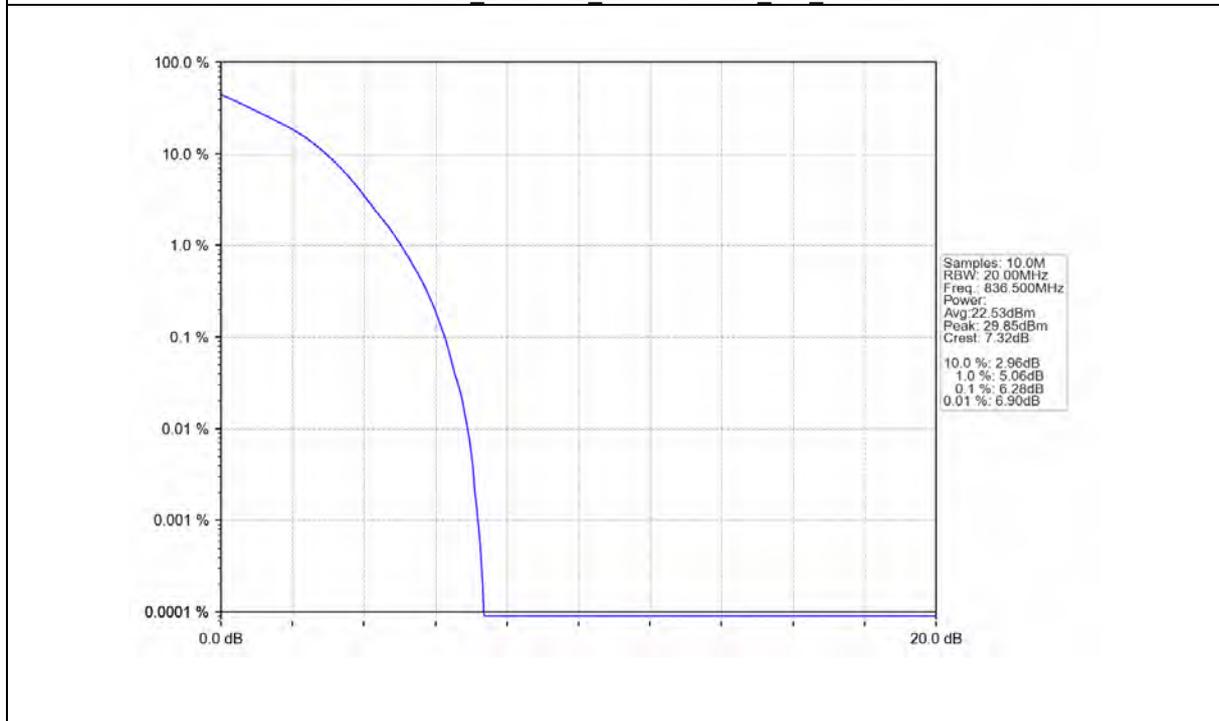
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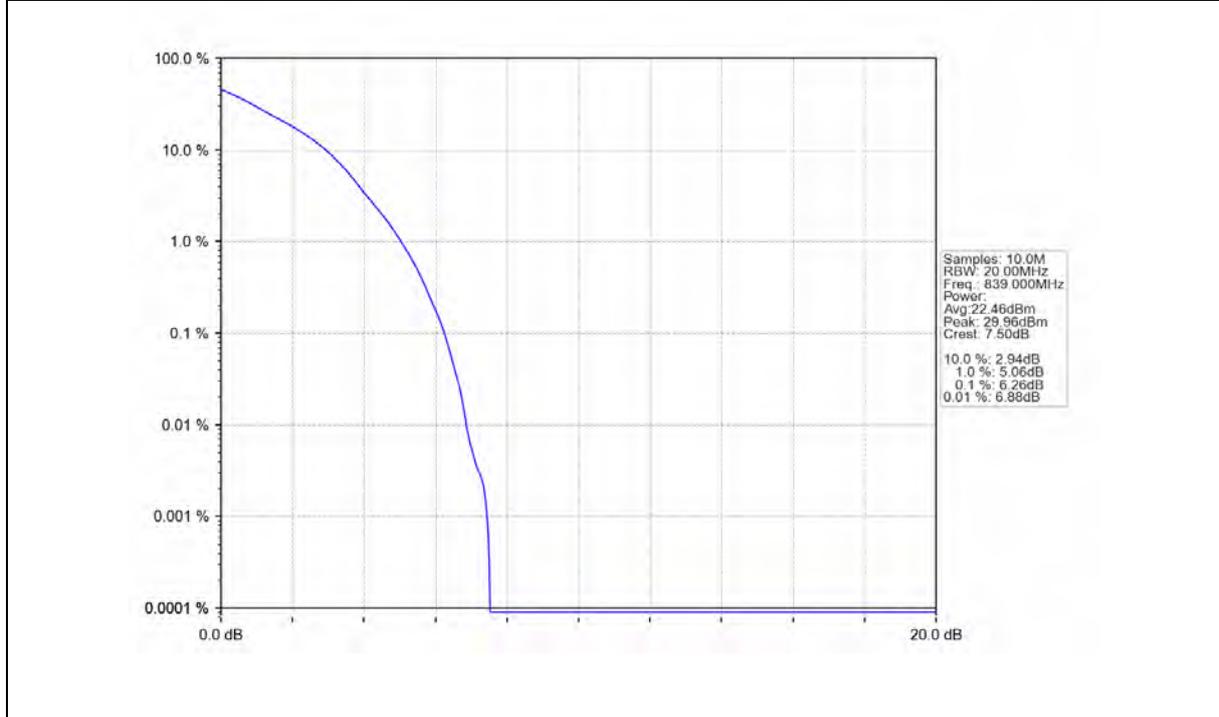
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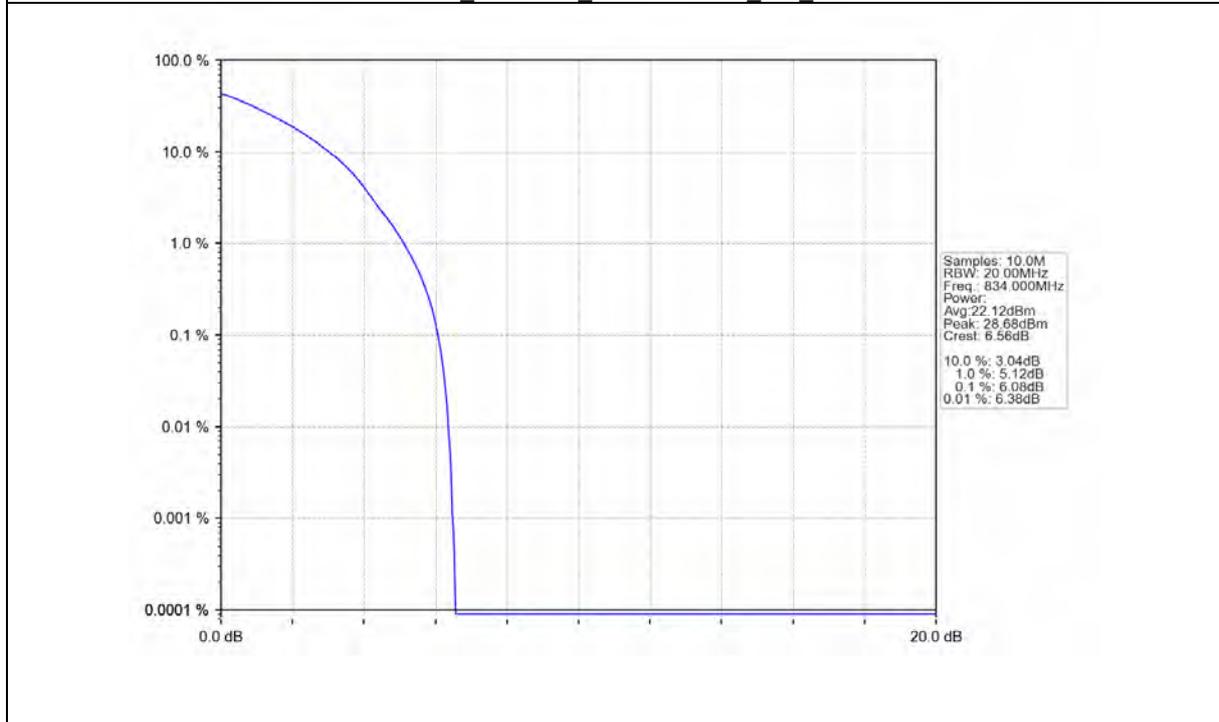


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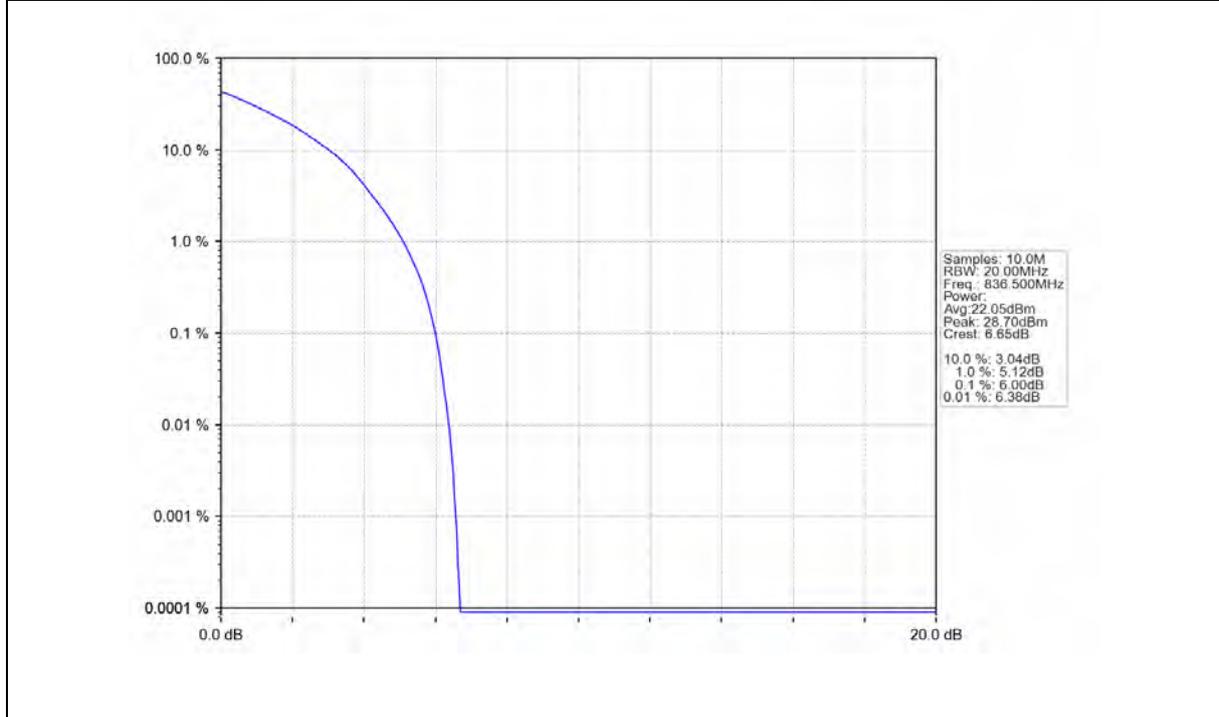
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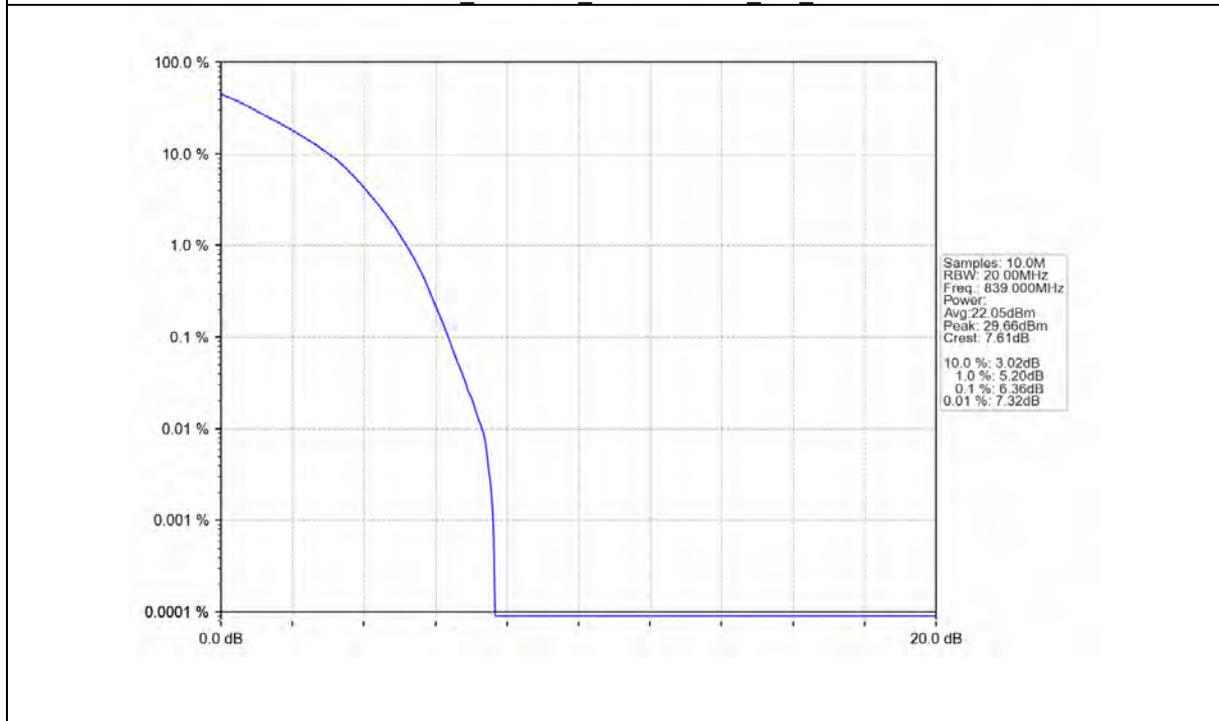
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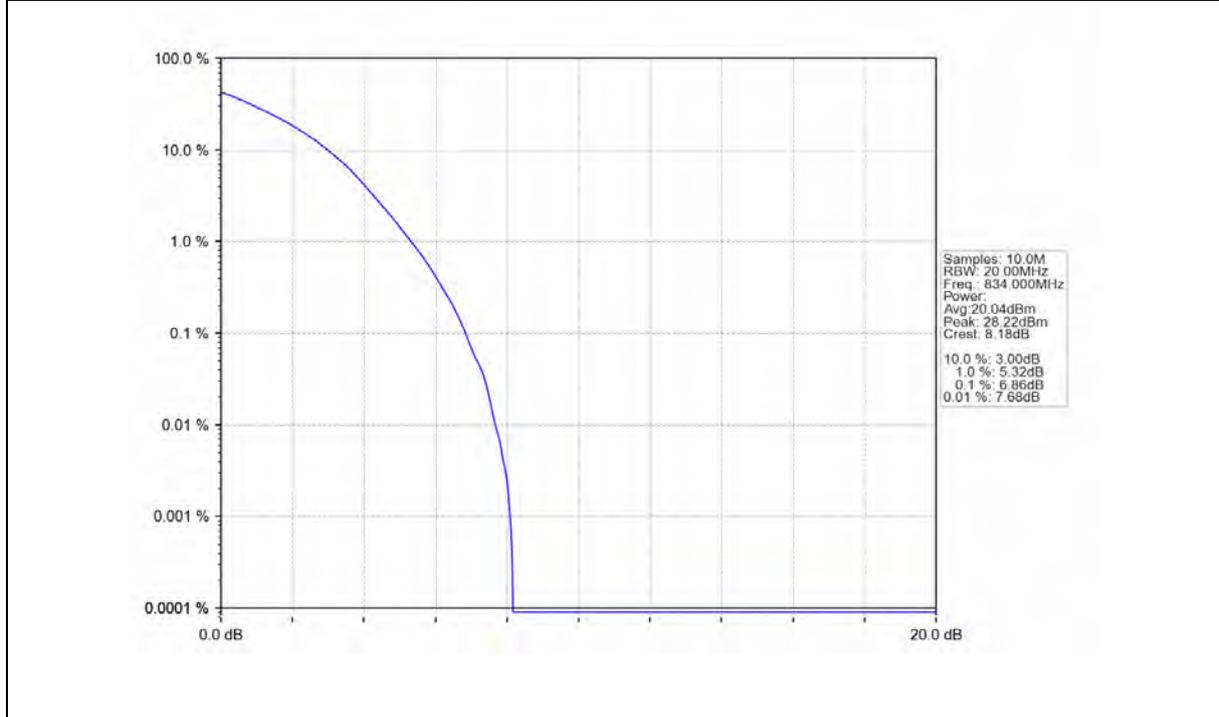
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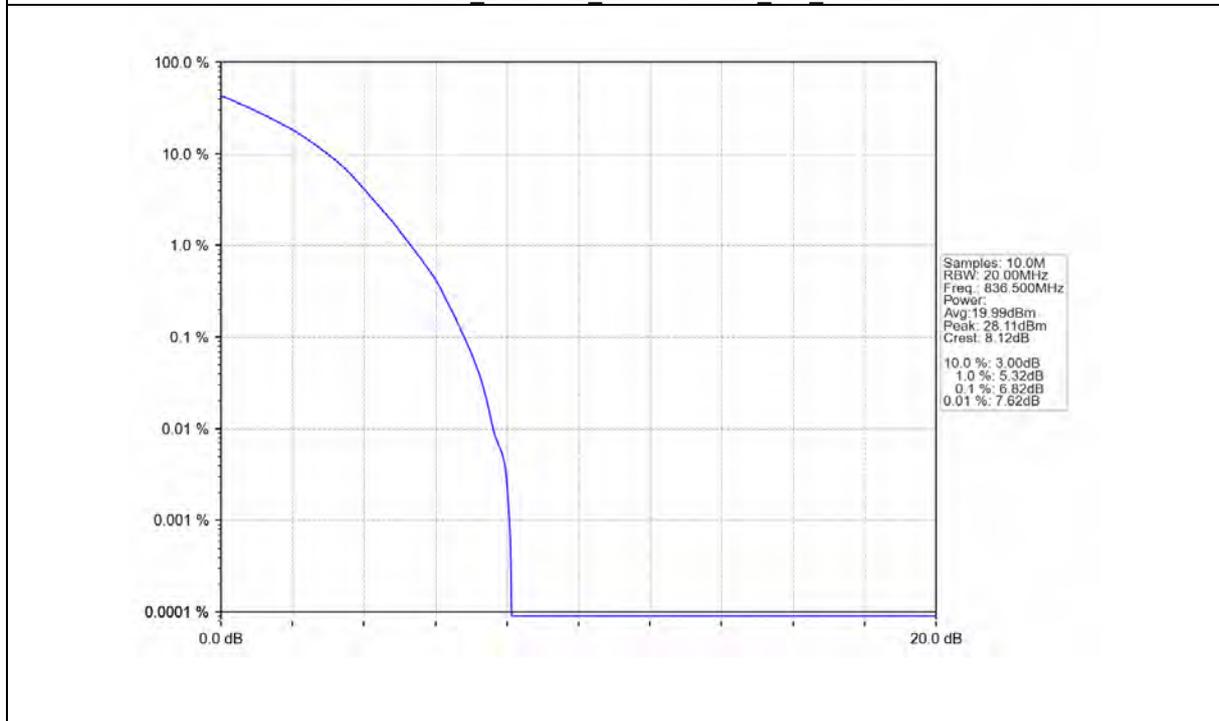
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DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:20MHz_LTE: QPSK NR: DFT-s-OFDM 256 QAM_CC1:1745
CC2:834MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



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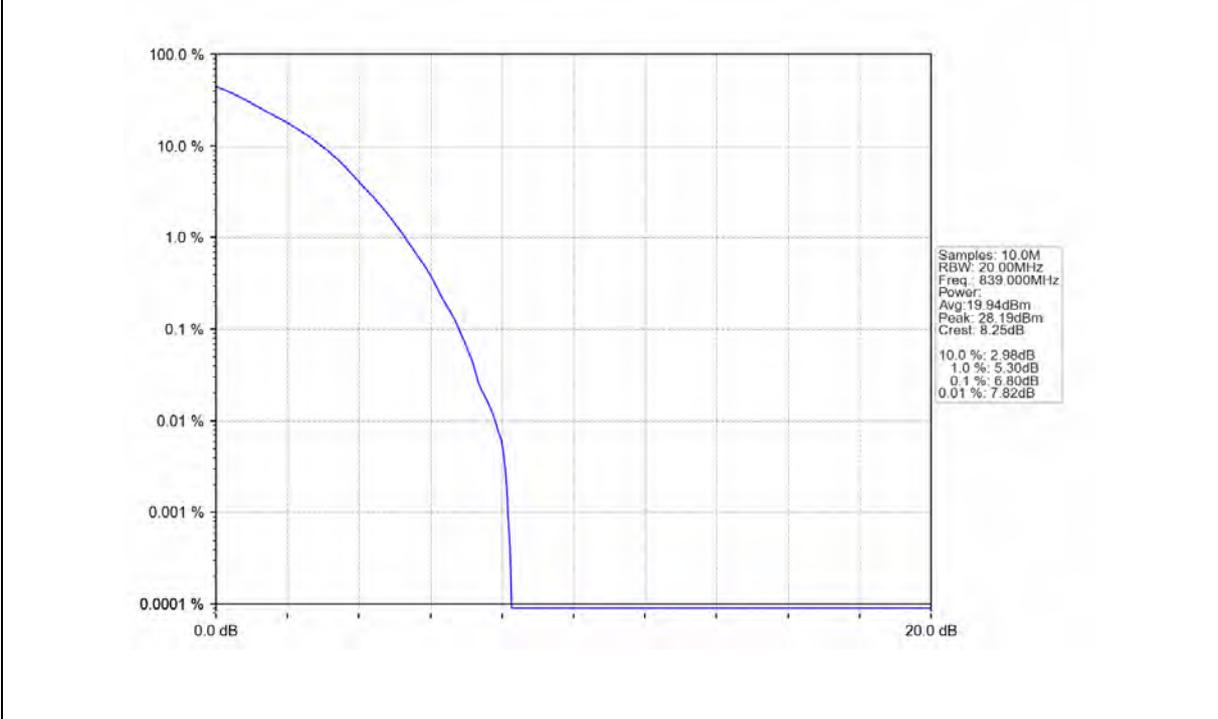




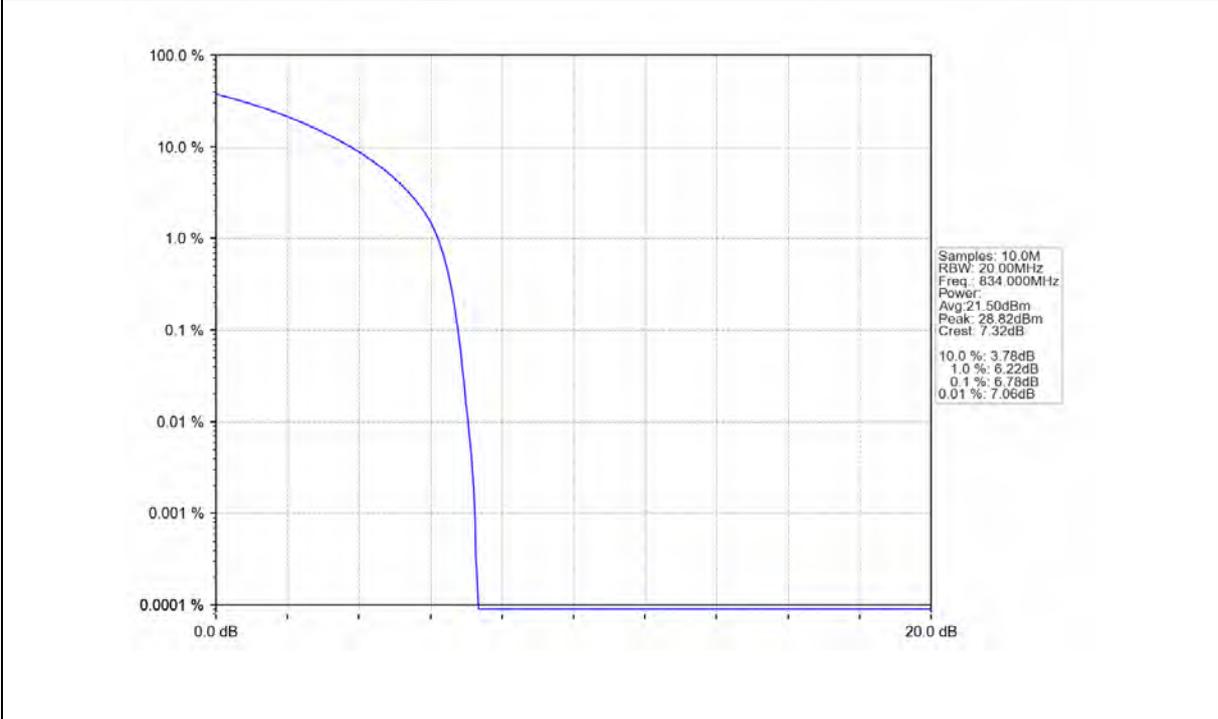
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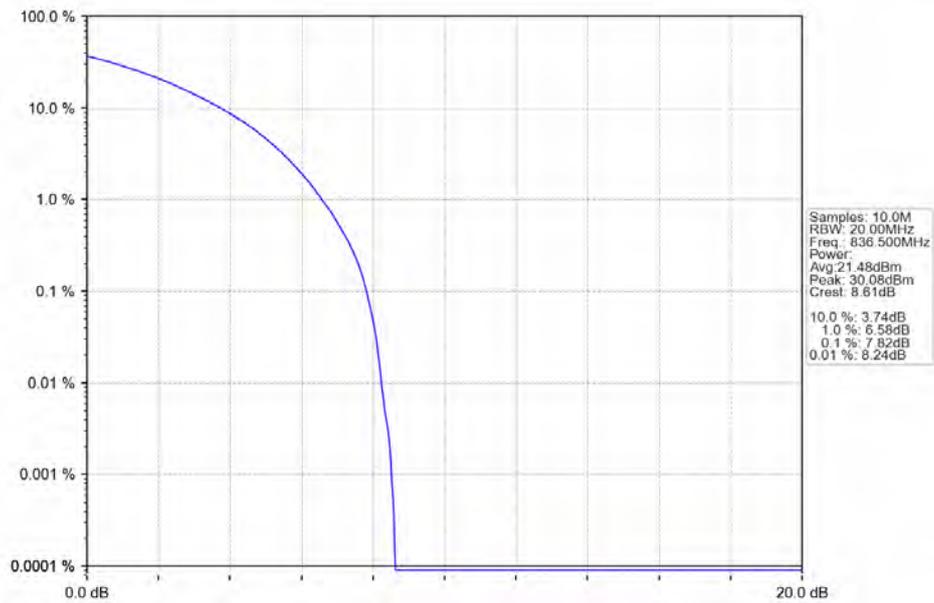
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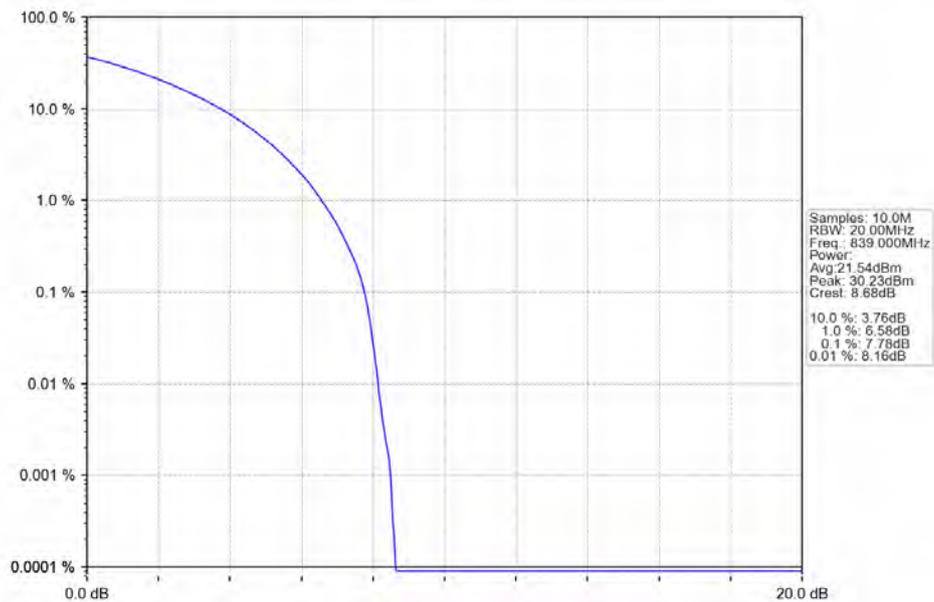
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DC_66A_n5A_15kHz_SISO_NTNV_CC1:20 CC2:20MHz_LTE: QPSK NR: CP-OFDM QPSK_CC1:1745
CC2:836.5MHz_LTE: 1RB_Left NR: Outer_Full_AntLTE 1



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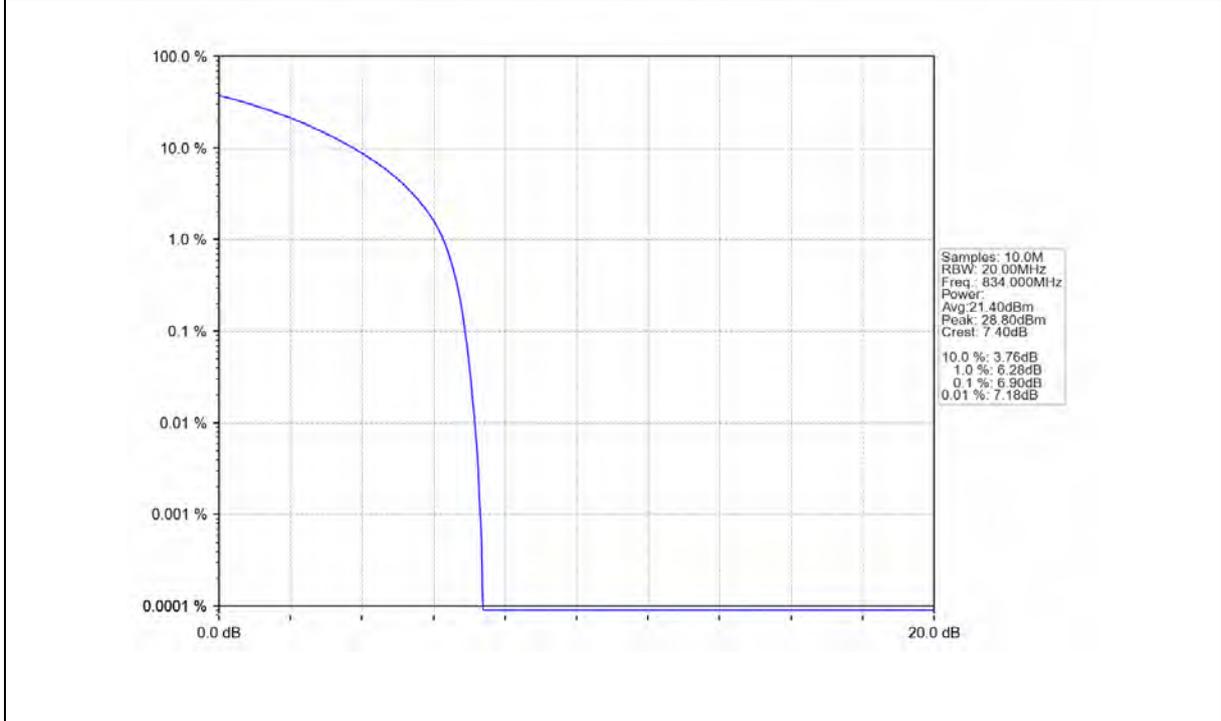




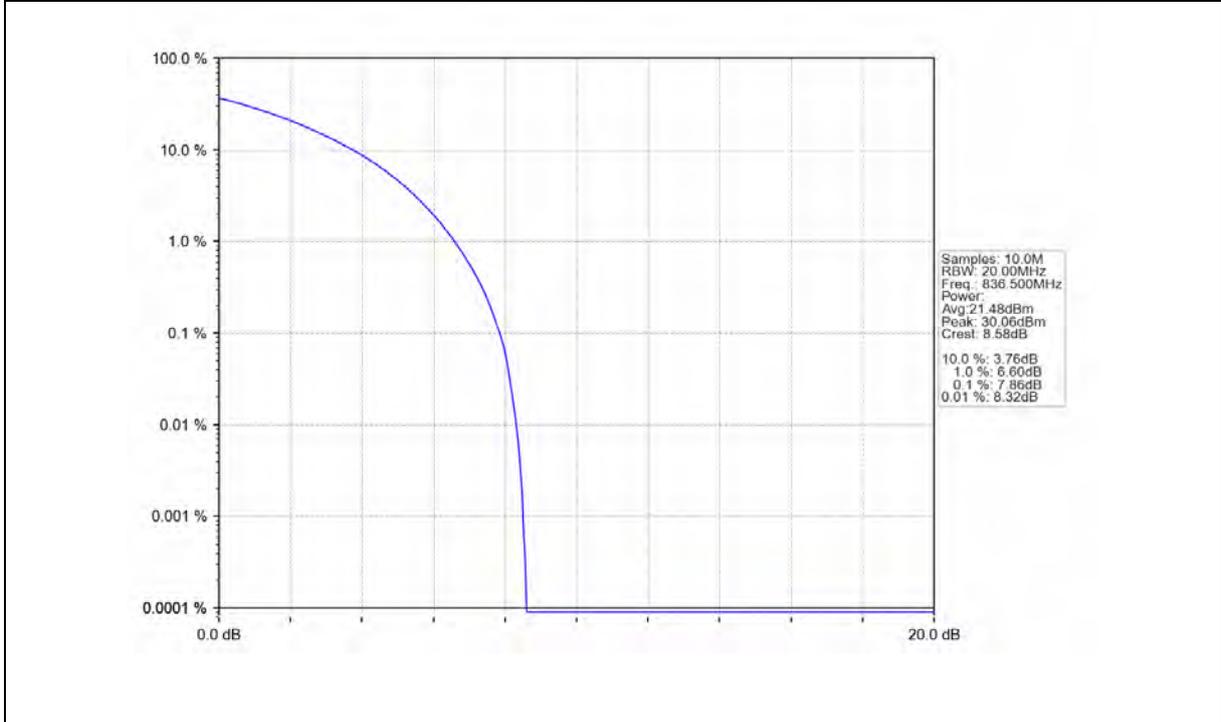
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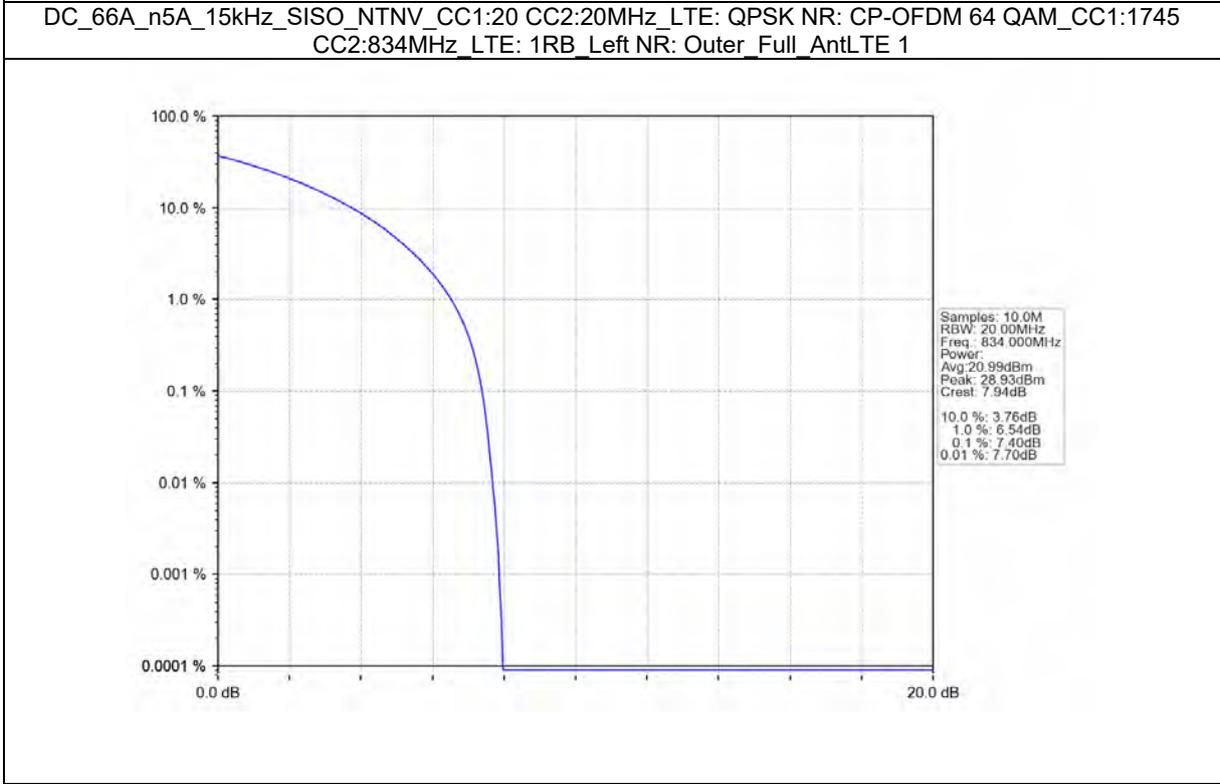
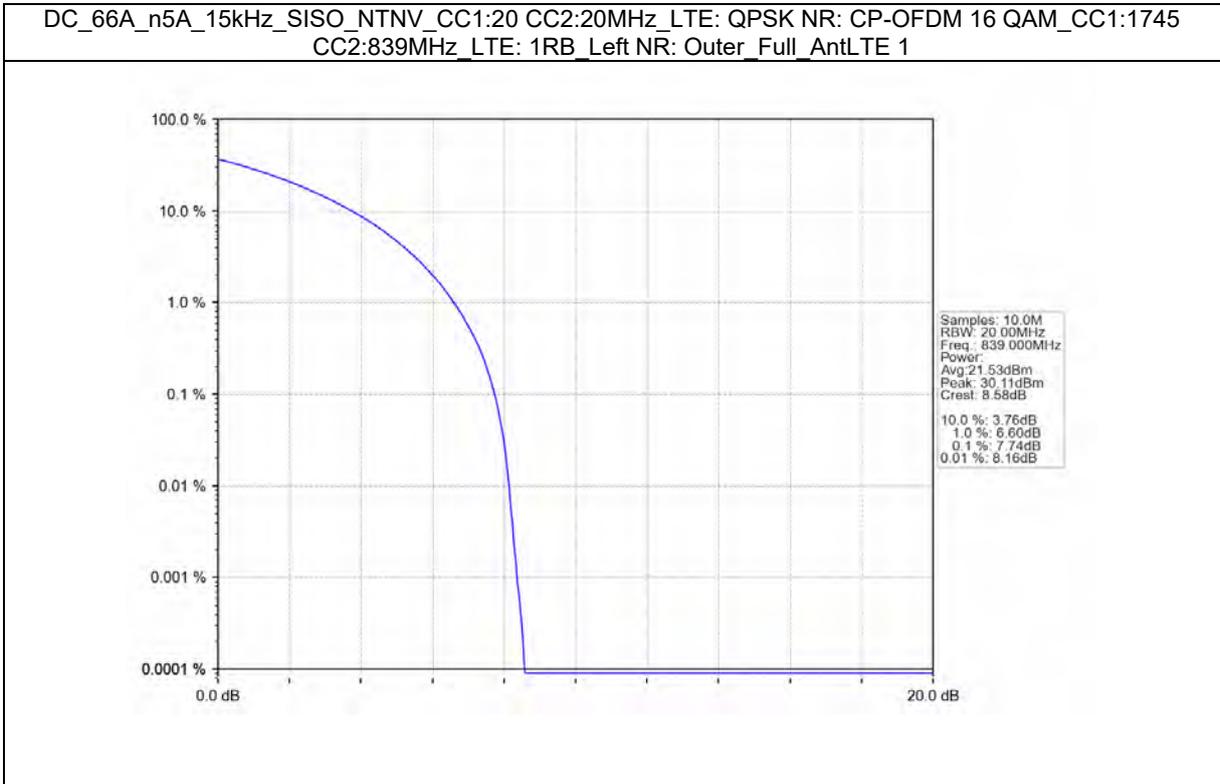
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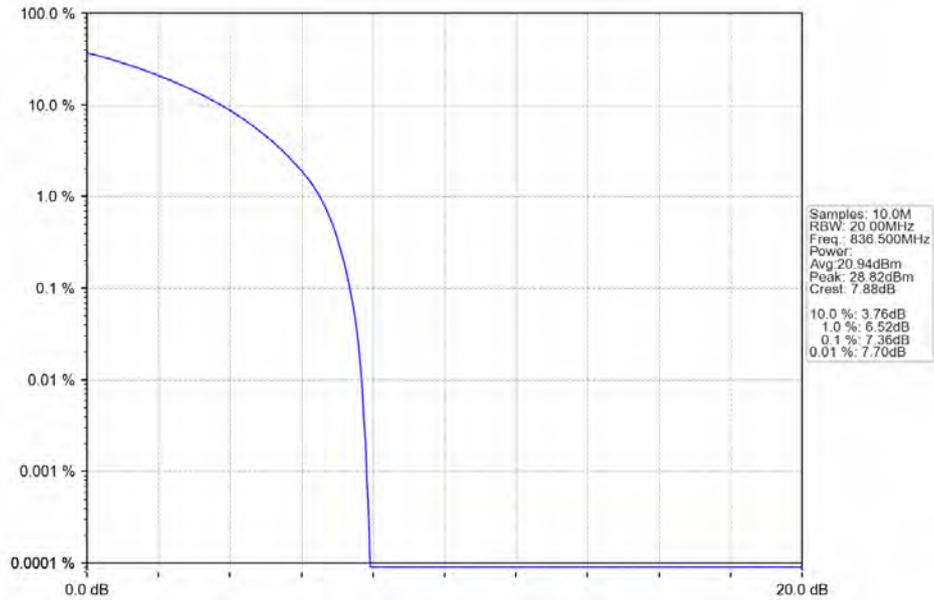


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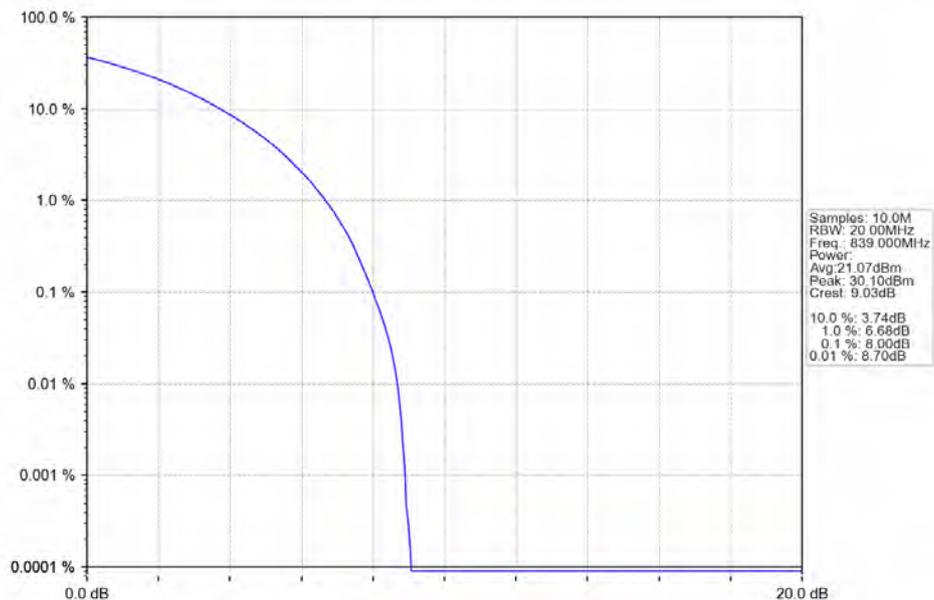




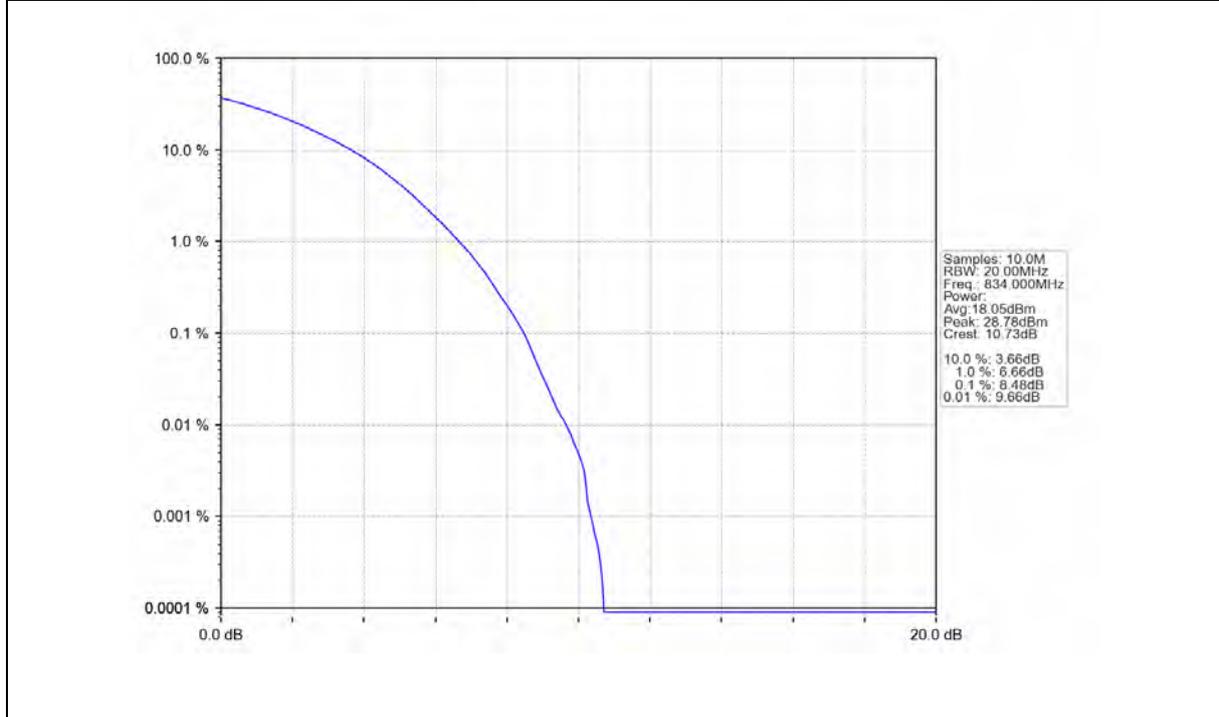
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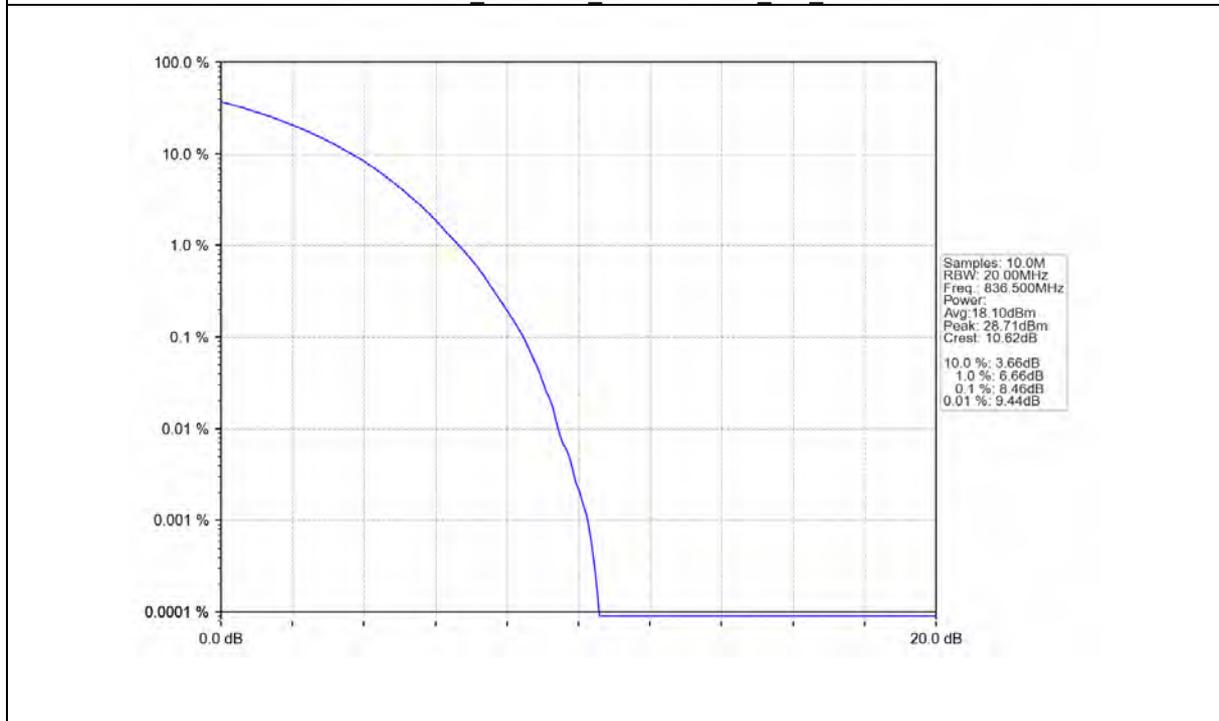
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