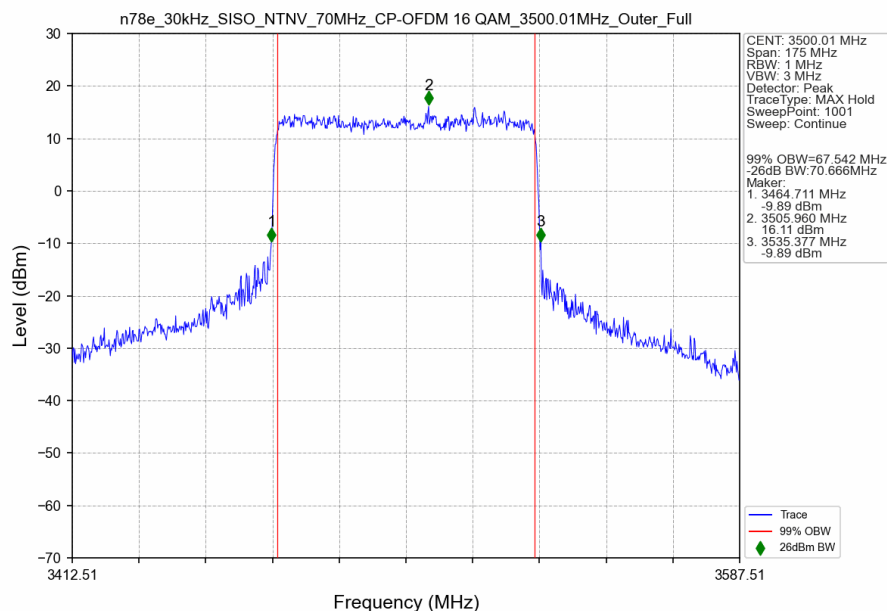
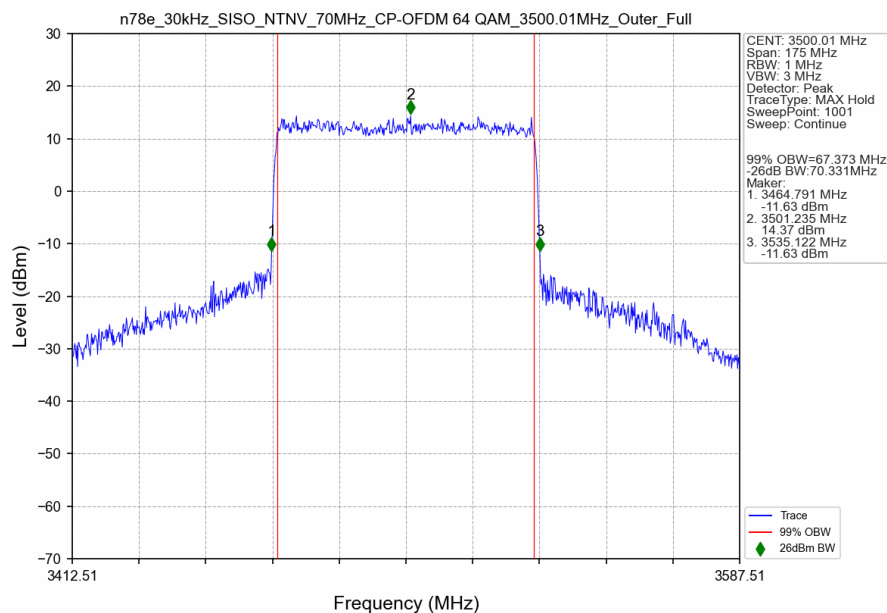


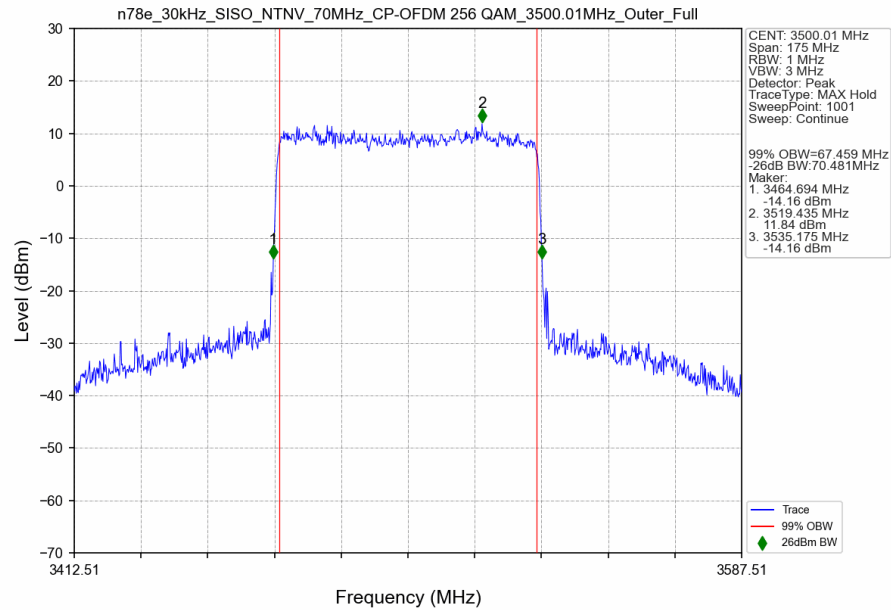
n78e_30kHz_SISO_NTNV_70MHz_CP-OFDM 16 QAM 3500.01MHz_Outer_Full_Ant6



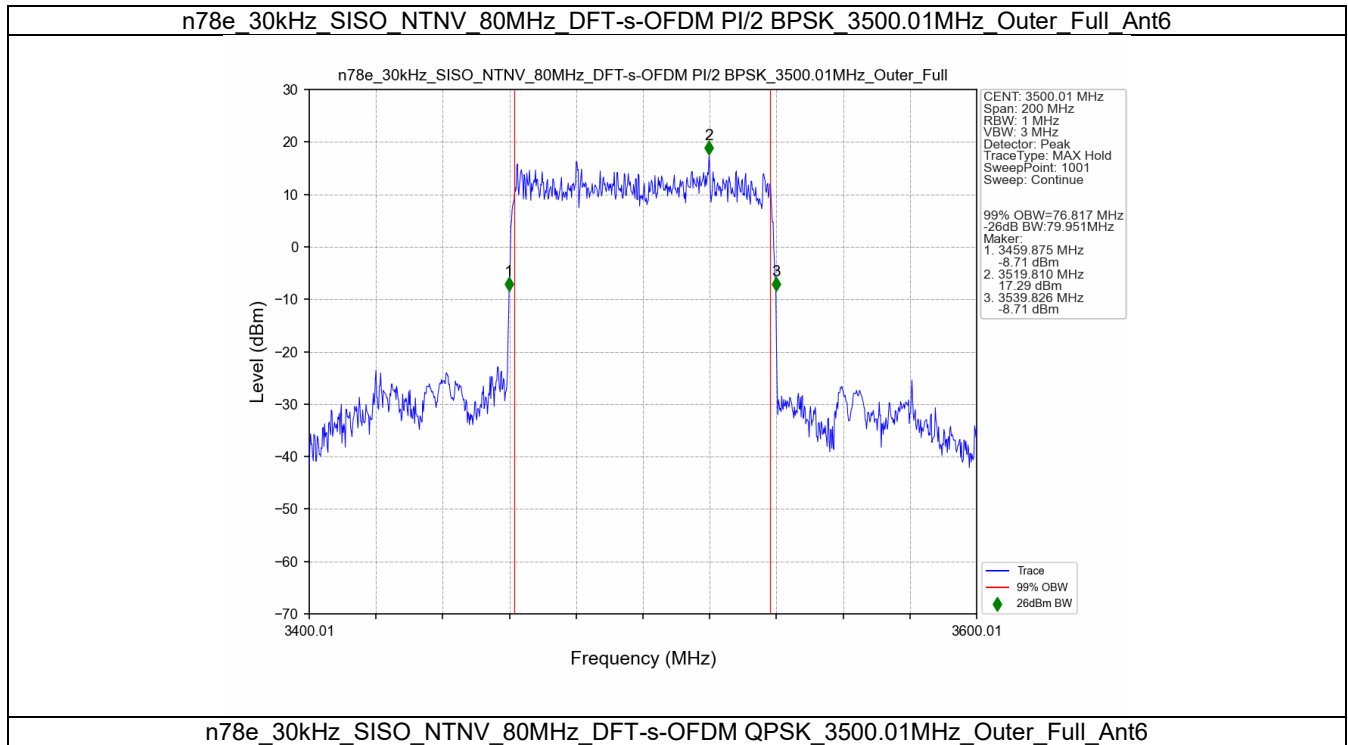
n78e_30kHz_SISO_NTNV_70MHz_CP-OFDM 64 QAM 3500.01MHz_Outer_Full_Ant6

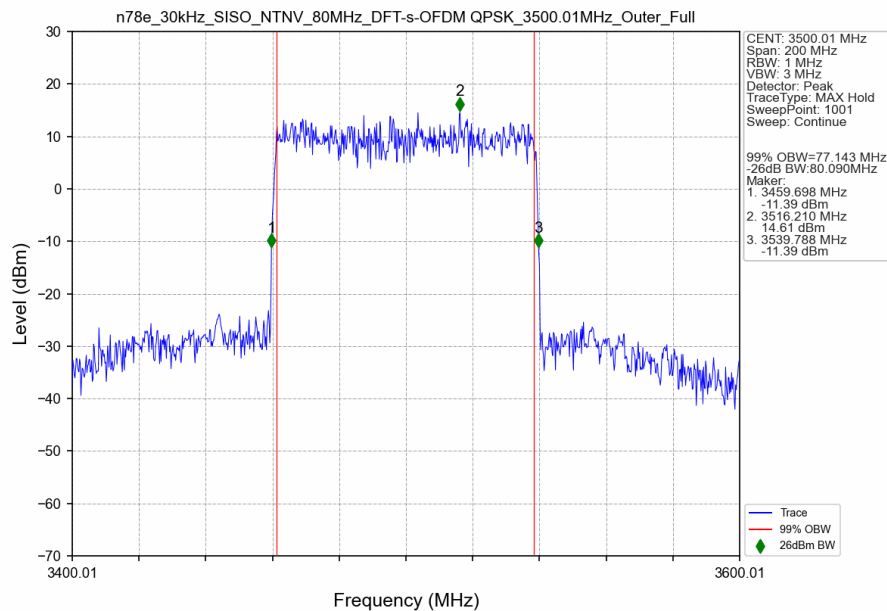


n78e_30kHz_SISO_NTNV_70MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full_Ant6

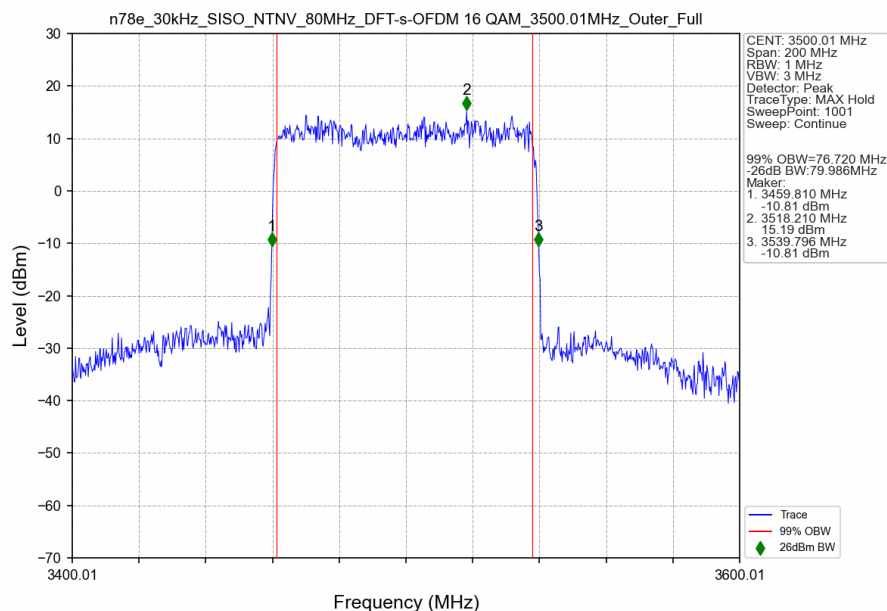


3.2.7 30_S_80M_NTNV

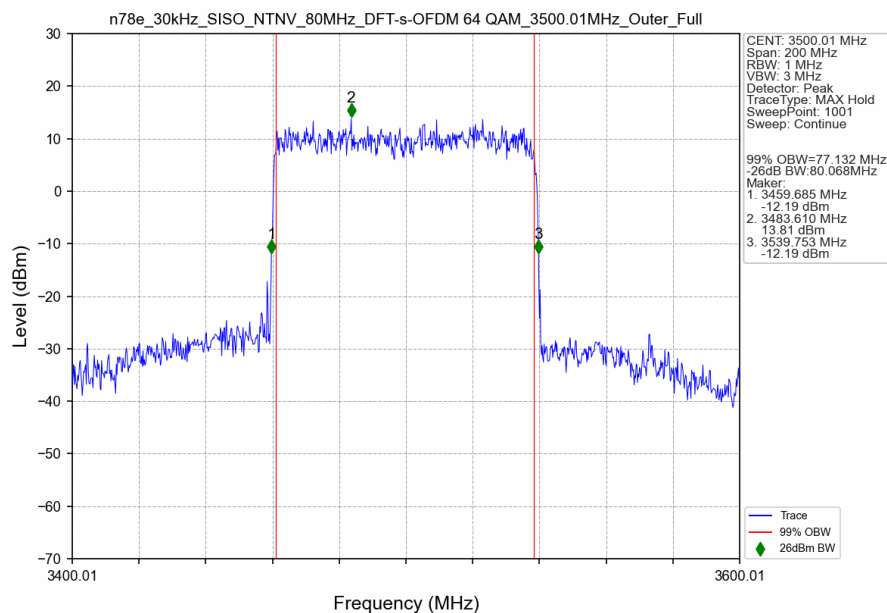




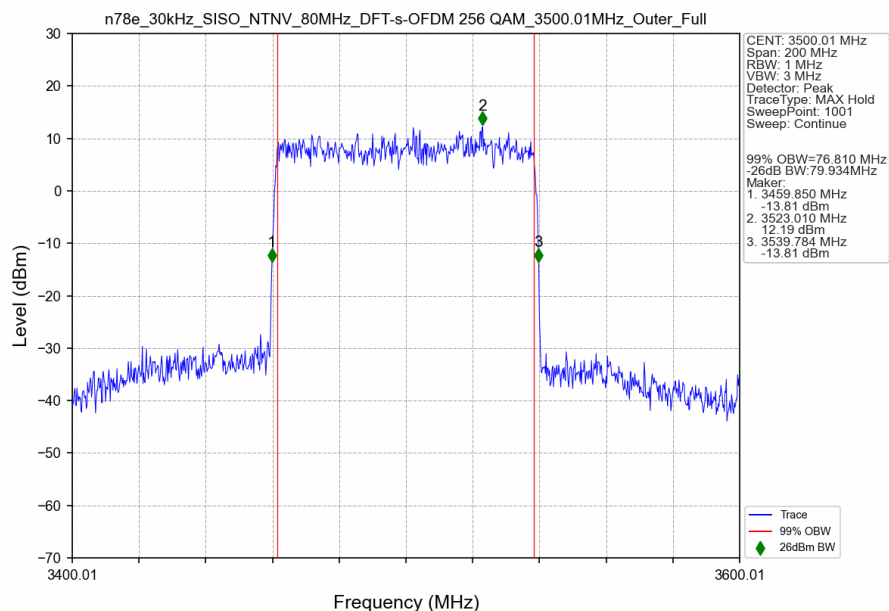
n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 16 QAM_3500.01MHz_Outer_Full_Ant6



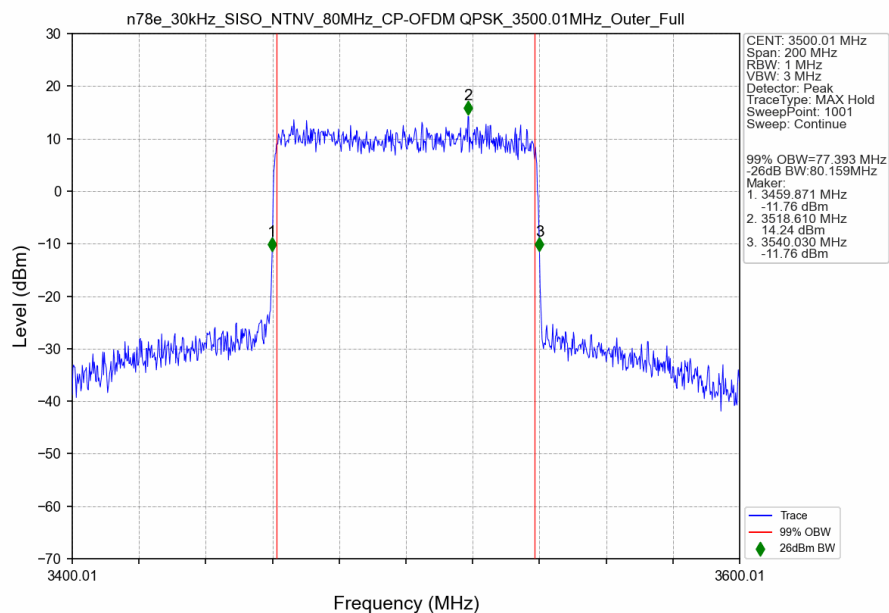
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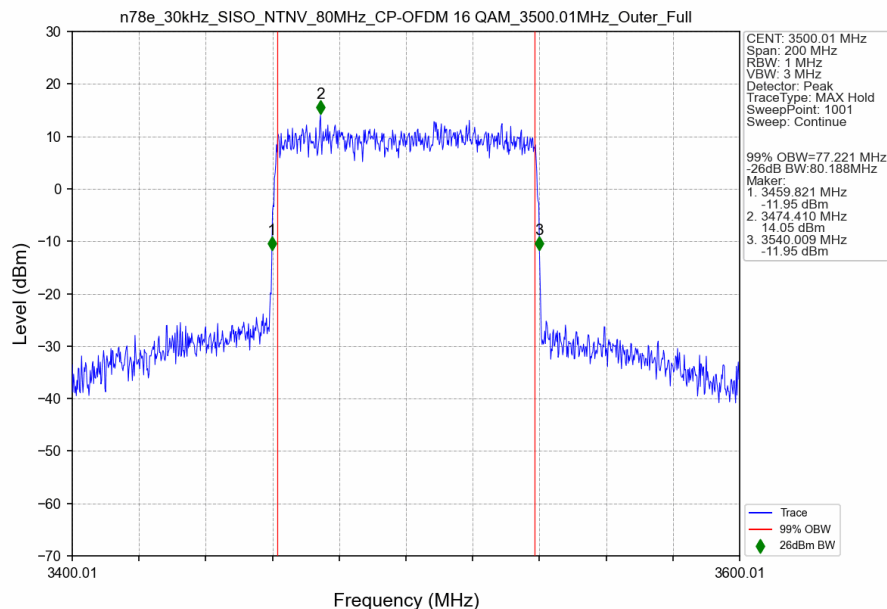
n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full_Ant6



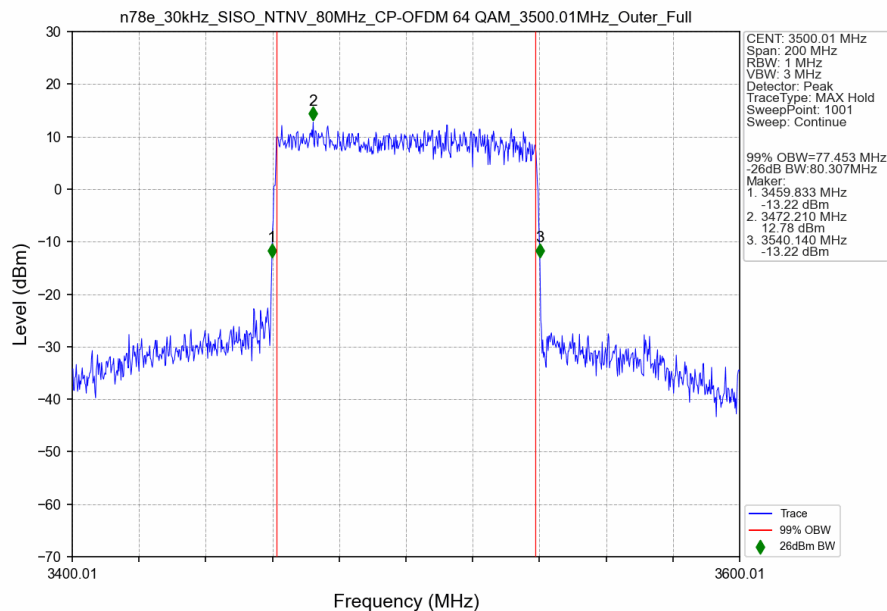
n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM_QPSK_3500.01MHz_Outer_Full_Ant6



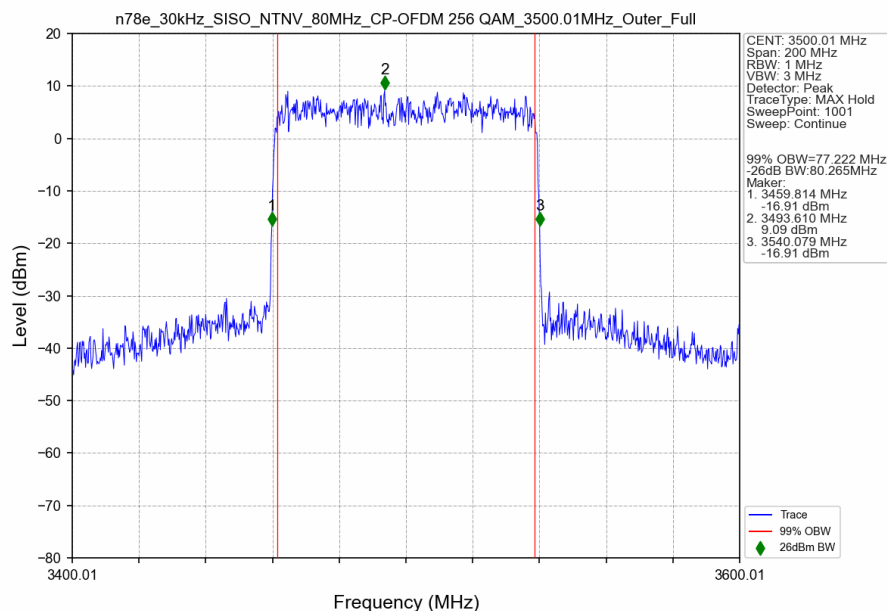
n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM 16 QAM_3500.01MHz_Outer_Full_Ant6



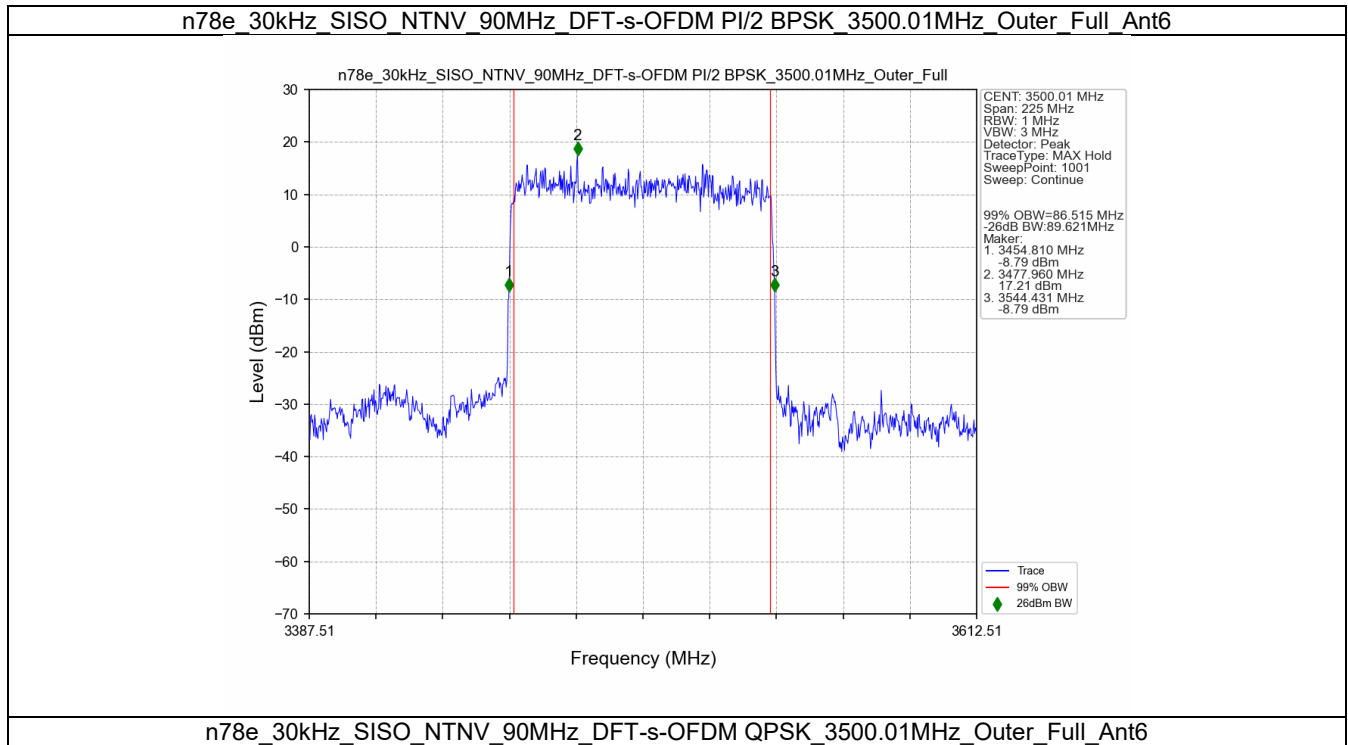
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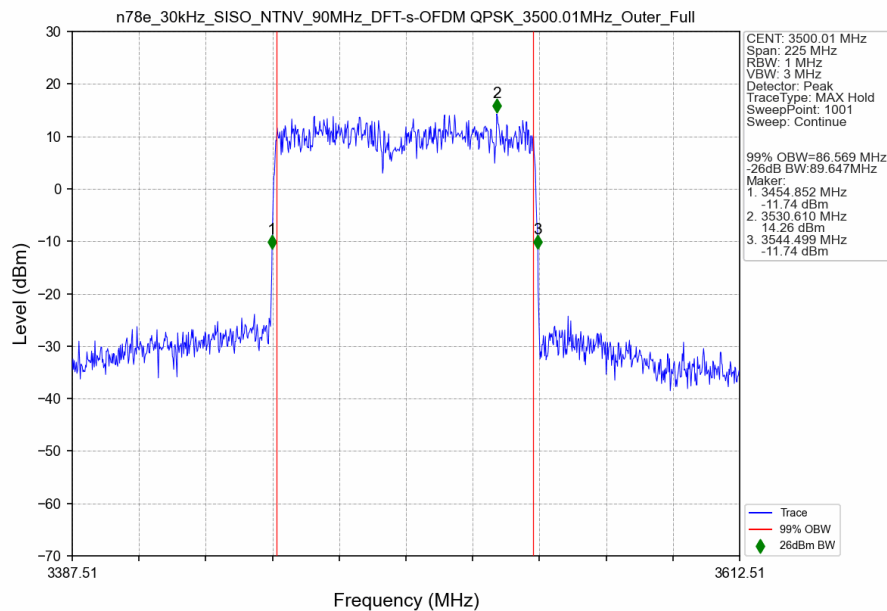


n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full_Ant6

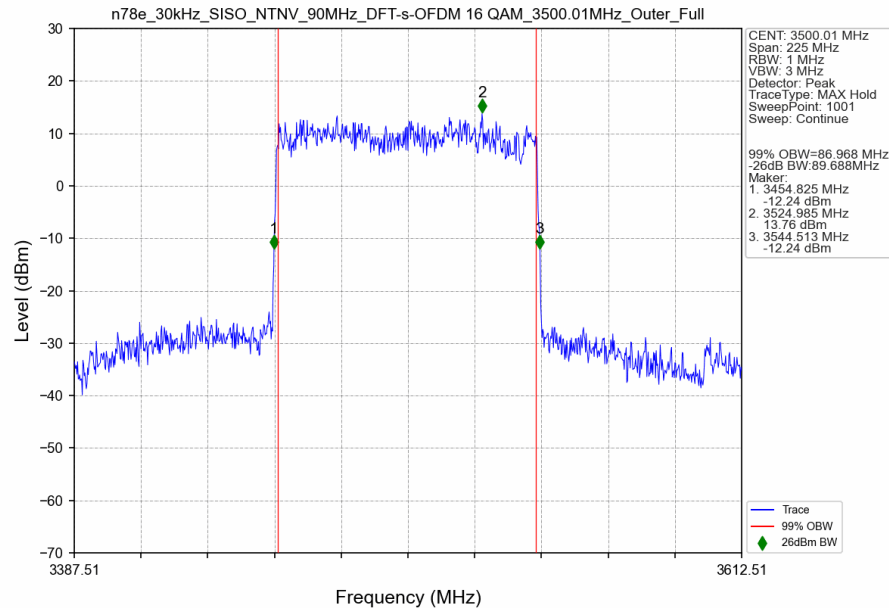


3.2.8 30_S_90M_NTNV

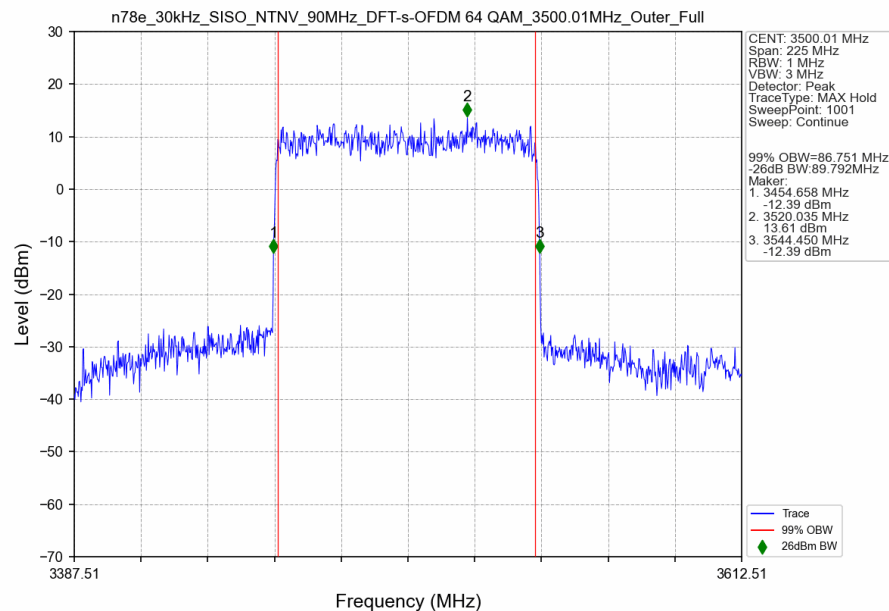




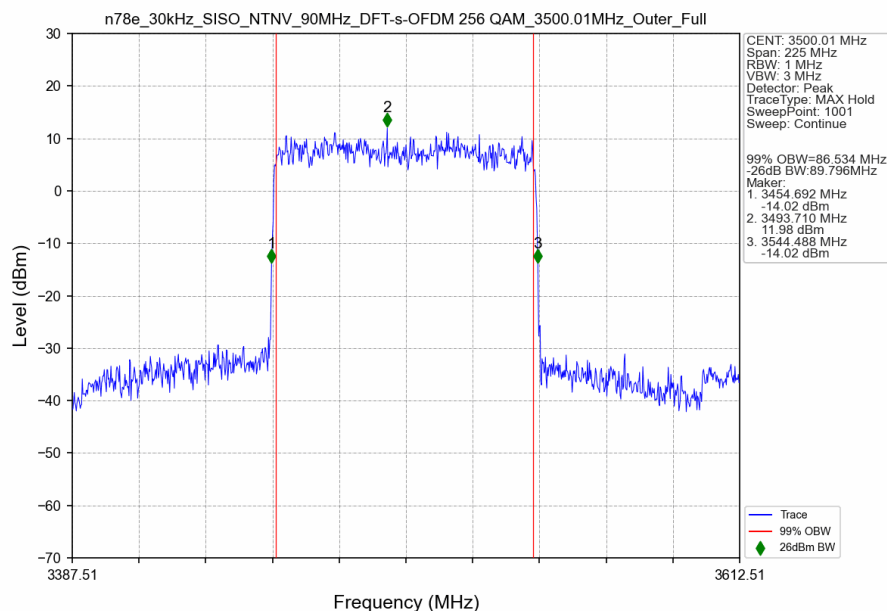
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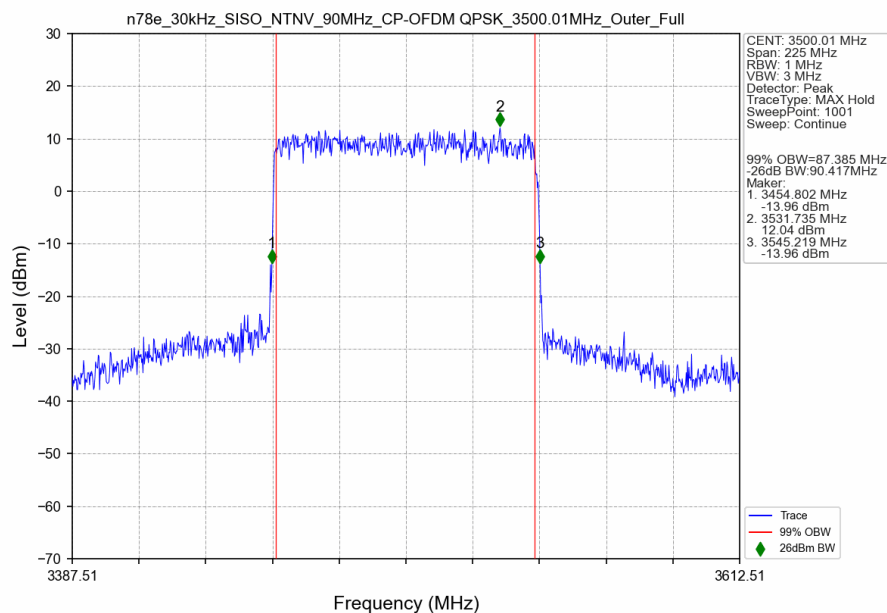
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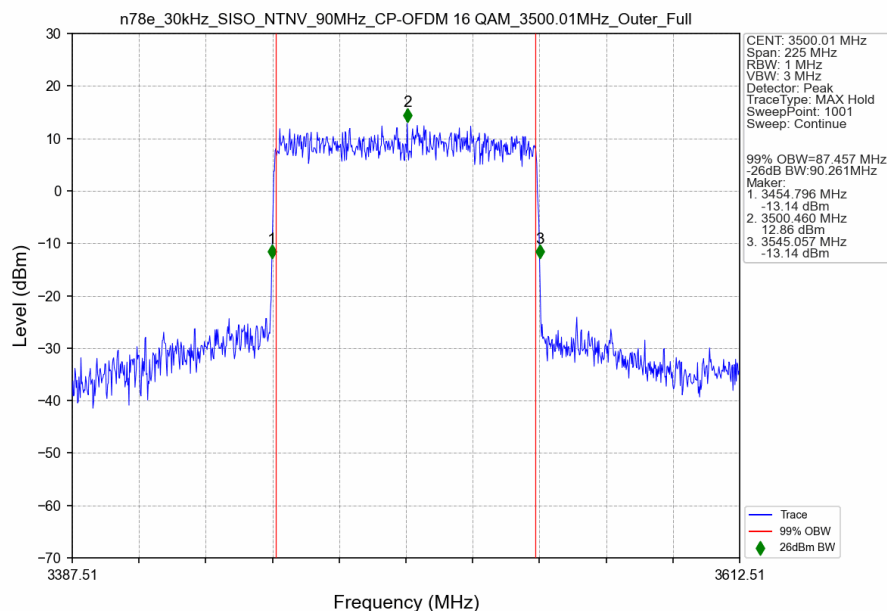
n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full_Ant6



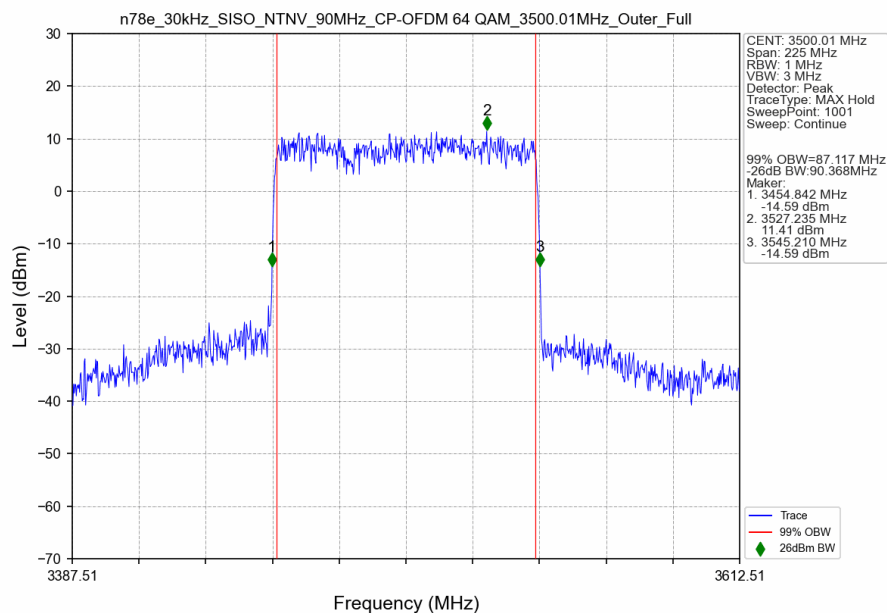
n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM_QPSK_3500.01MHz_Outer_Full_Ant6

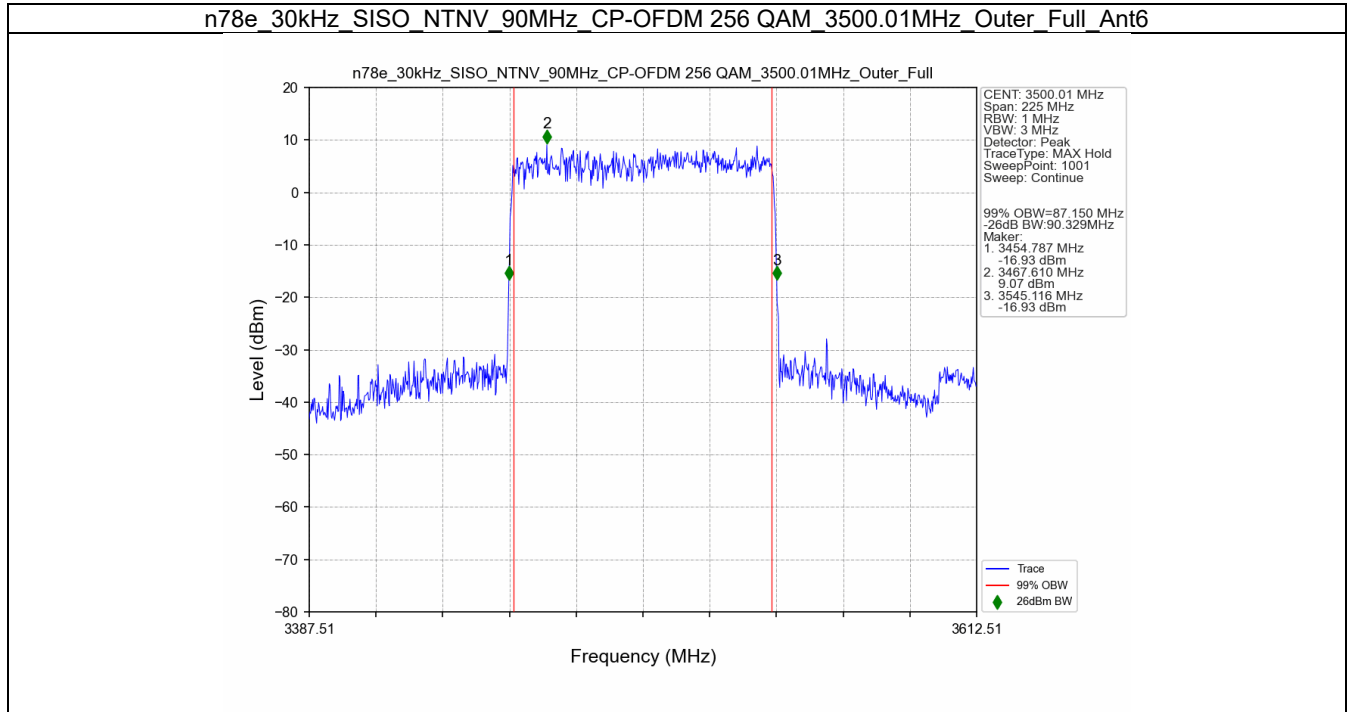


n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM 16 QAM_3500.01MHz_Outer_Full_Ant6

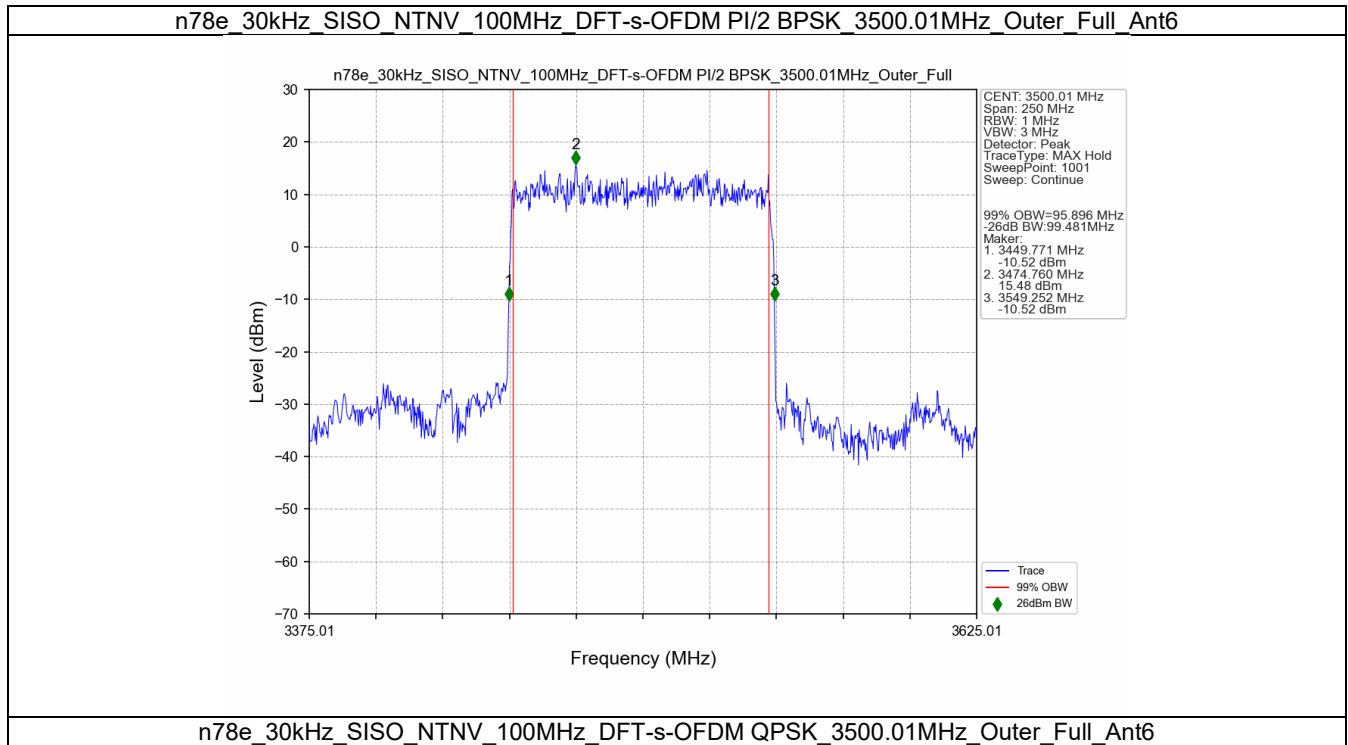


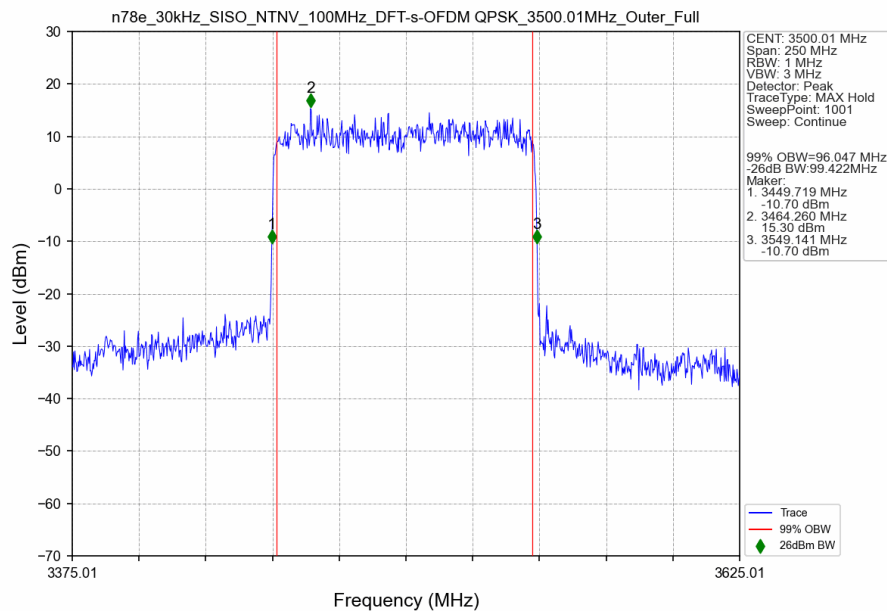
n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full_Ant6



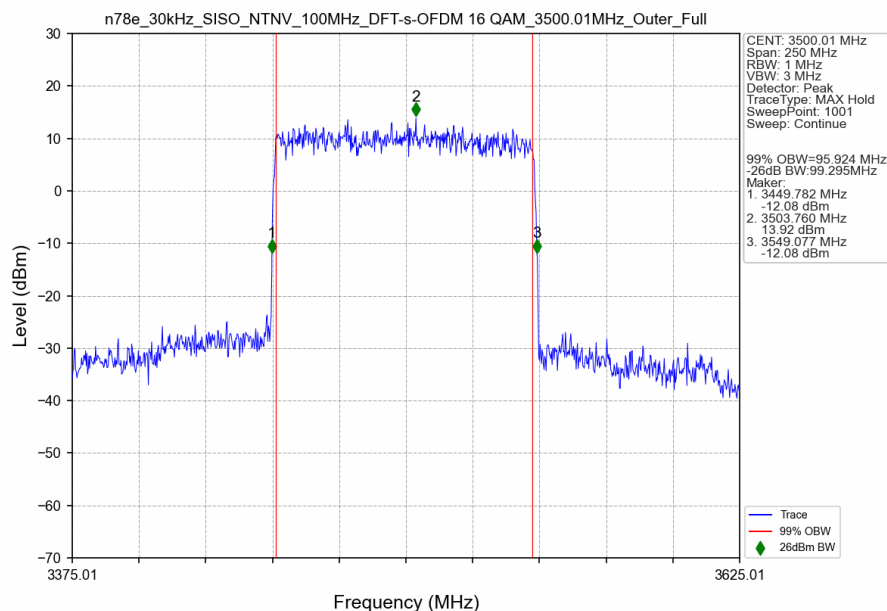


3.2.9 30_S_100M_NTNV

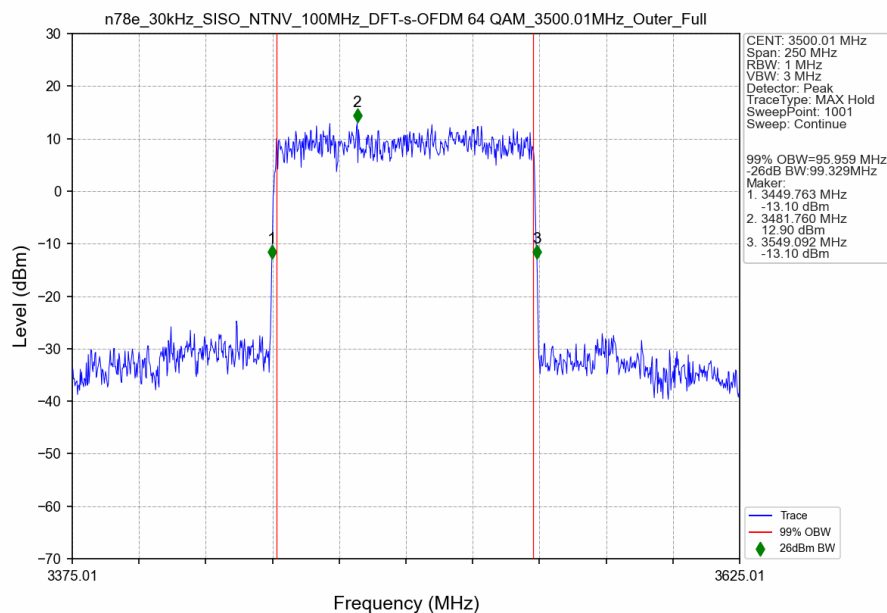




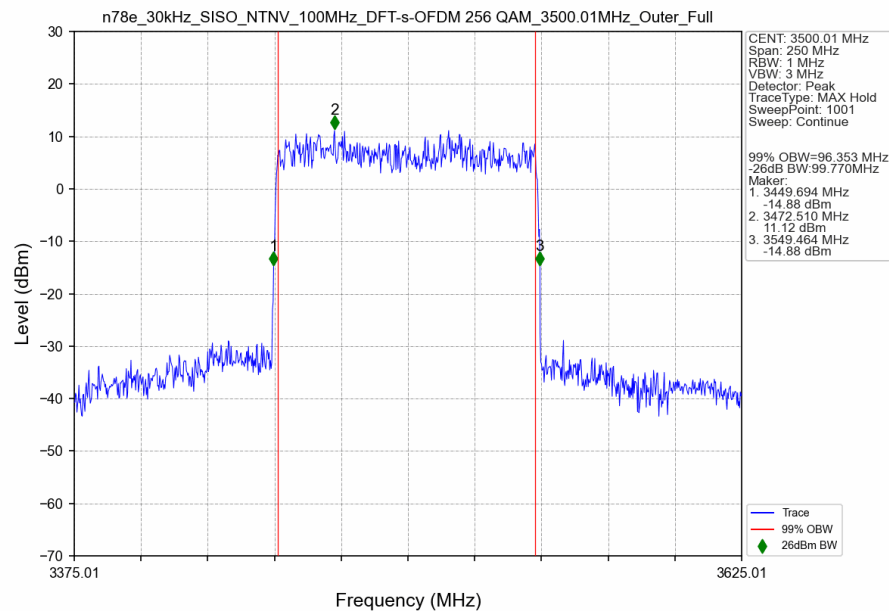
n78e_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 16 QAM_3500.01MHz_Outer_Full_Ant6



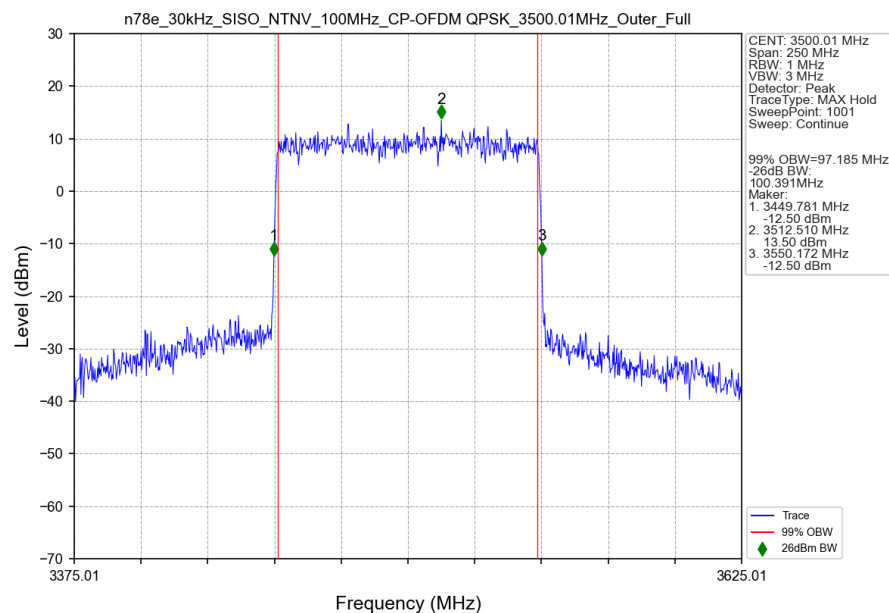
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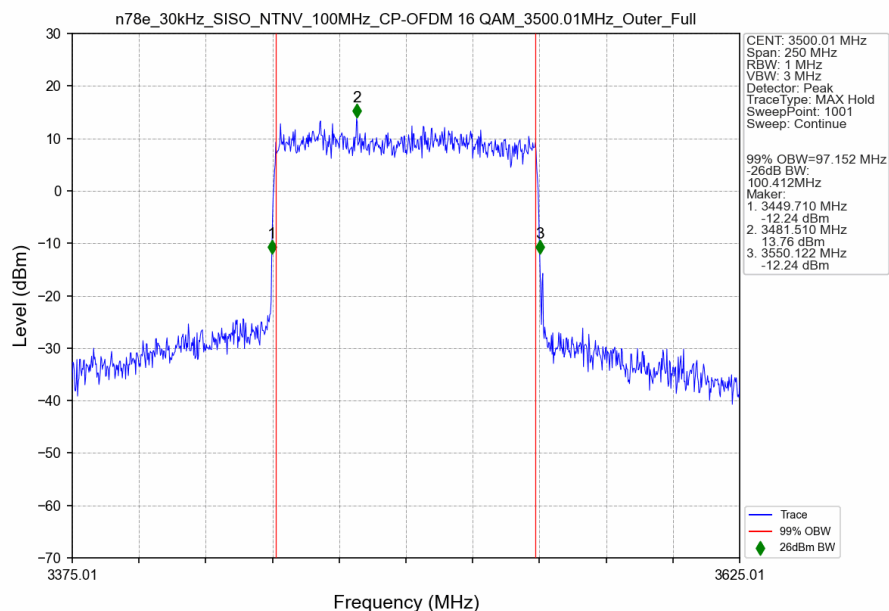
n78e_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 256 QAM 3500.01MHz_Outer_Full_Ant6



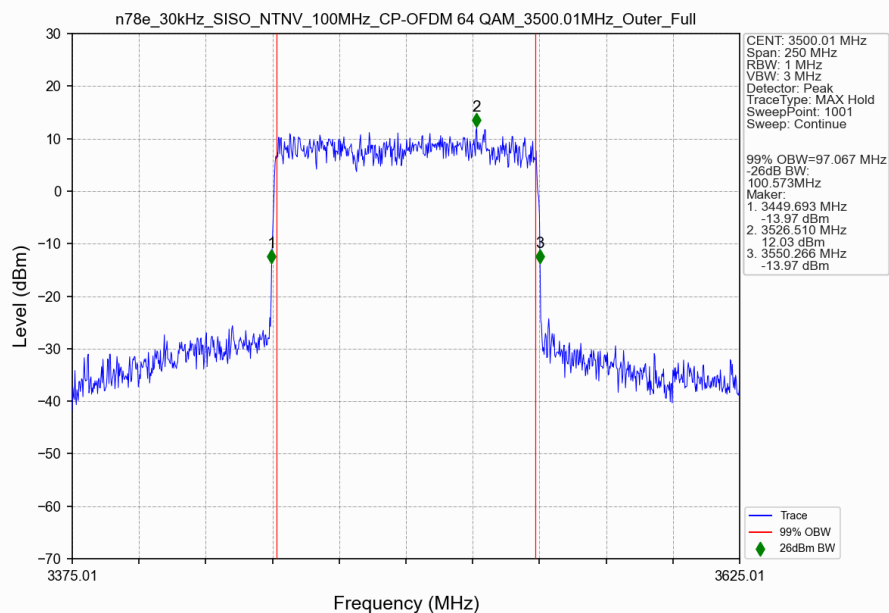
n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK 3500.01MHz_Outer_Full_Ant6



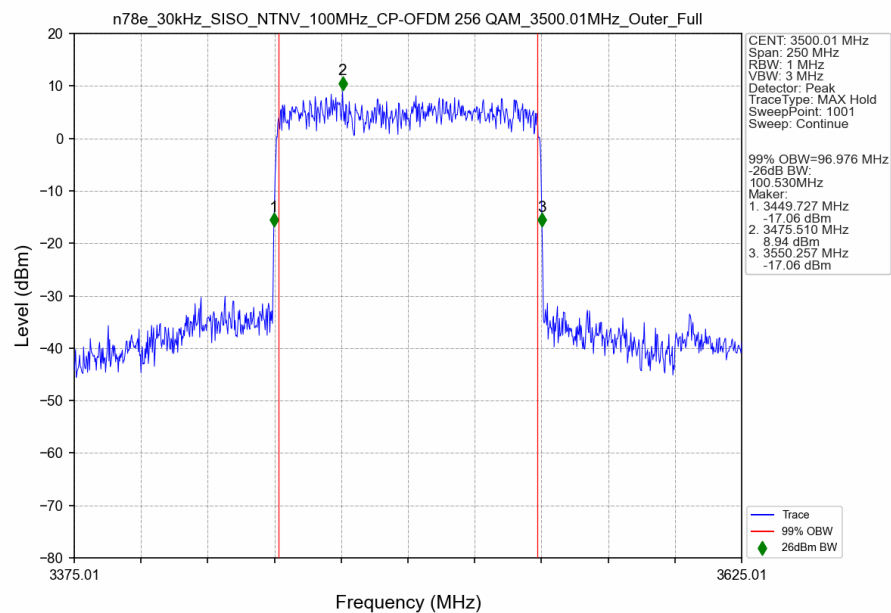
n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM 16 QAM_3500.01MHz_Outer_Full_Ant6



n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full_Ant6



n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM 3500.01MHz_Outer_Full_Ant6





4. Peak-Average Ratio

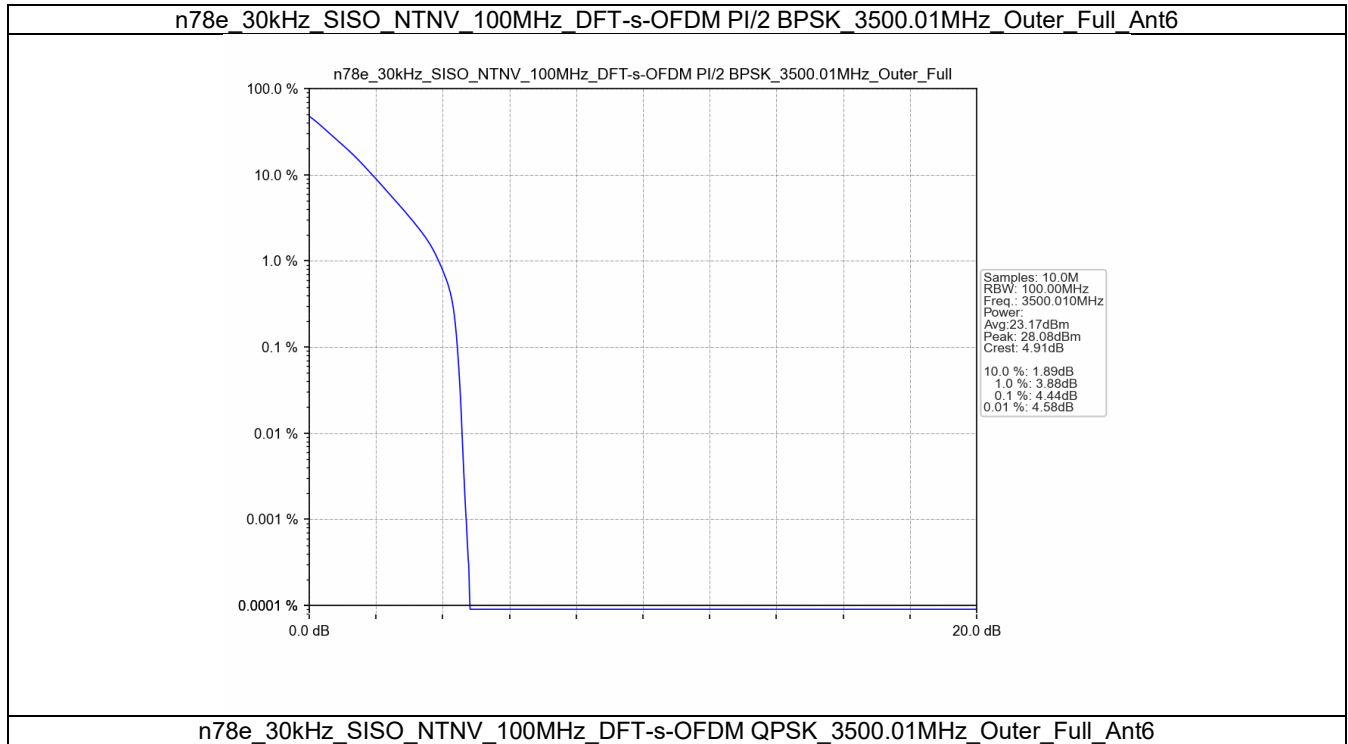
4.1 Test Result

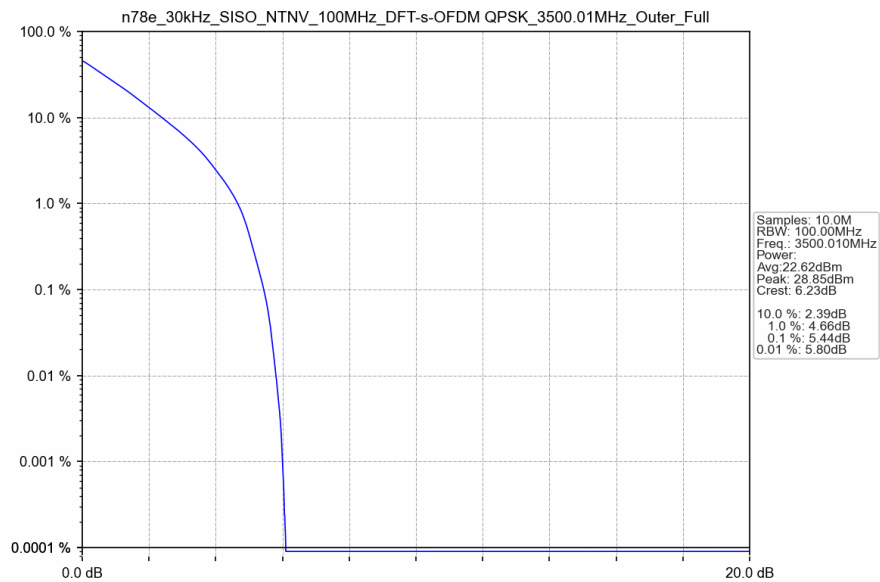
4.1.1 30_S_100M_NTNV

5G NR n78e SCS=30kHz SISO 100MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant6	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	4.44	/	/	<=13	Pass
DFT-s-OFDM QPSK	3500.01	Outer_Full	5.44	/	/	<=13	Pass
CP-OFDM QPSK	3500.01	Outer_Full	7.66	/	/	<=13	Pass

4.2 Test Graph

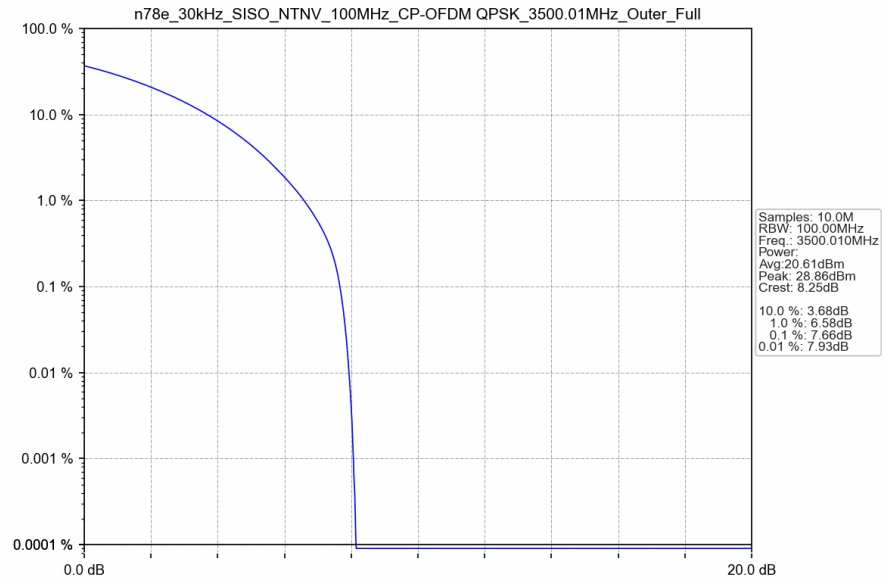
4.2.1 30_S_100M_NTNV







n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3500.01MHz_Outer_Full_Ant6



5. Spurious Emission

5.1 Test Result

5.1.1 30_S_20M_NTNV

5G NR n78e SCS=30kHz SISO 20MHz NTN								
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict	
			Ant6	Ant2	Sum	Limit		
DFT-s-OFDM PI/2 BPSK	3460.02	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
	3500.01	Edge_1RB_Left	Refer To Test Graph				Pass	
		3540	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	3460.02	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
	3500.01	Edge_1RB_Left	Refer To Test Graph				Pass	
		3540	Edge_1RB_Right	Refer To Test Graph				Pass
	Outer_Full		Refer To Test Graph				Pass	
CP-OFDM QPSK	3460.02	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
	3500.01	Edge_1RB_Left	Refer To Test Graph				Pass	
		3540	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass

5.1.2 30_S_60M_NTNV

5G NR n78e SCS=30kHz SISO 60MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant6	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3480	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3500.01	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	3480	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3500.01	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	3480	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3500.01	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass

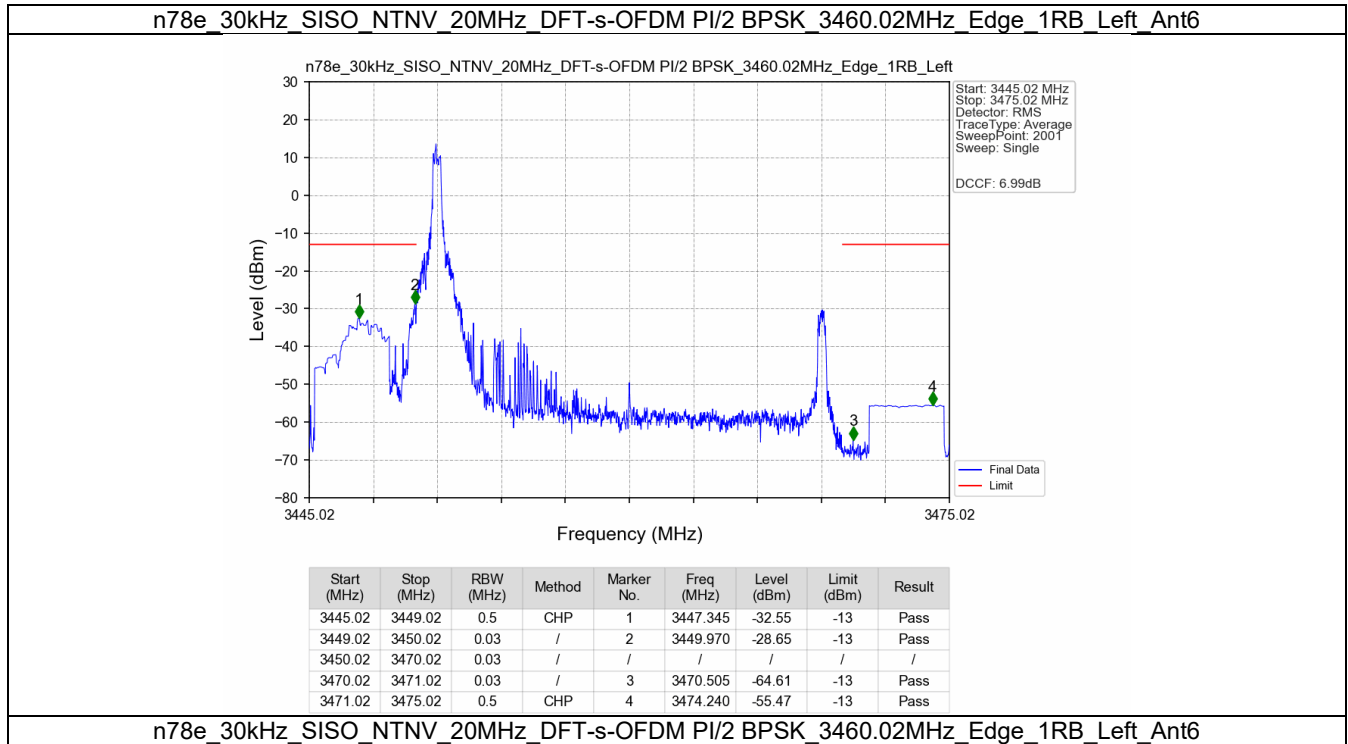


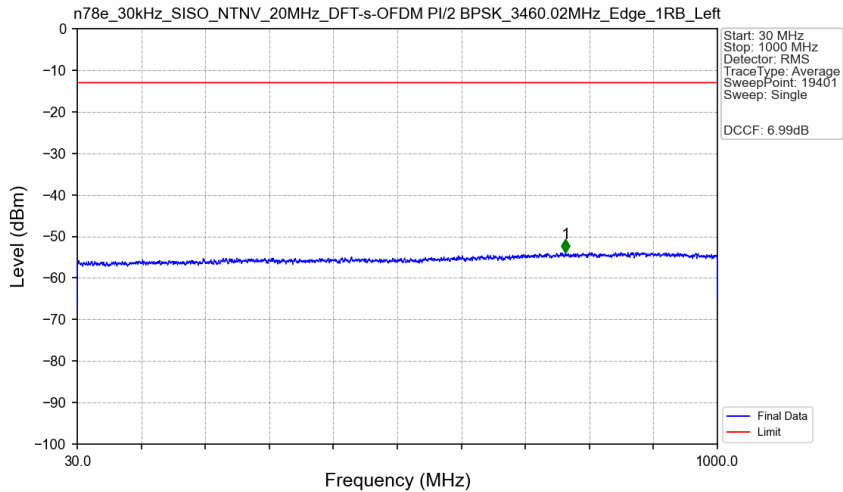
5.1.3 30_S_100M_NTNV

5G NR n78e SCS=30kHz SISO 100MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant6	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3499.98	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	3500.01	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3499.98	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
CP-OFDM QPSK	3500.01	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3499.98	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass

5.2 Test Graph

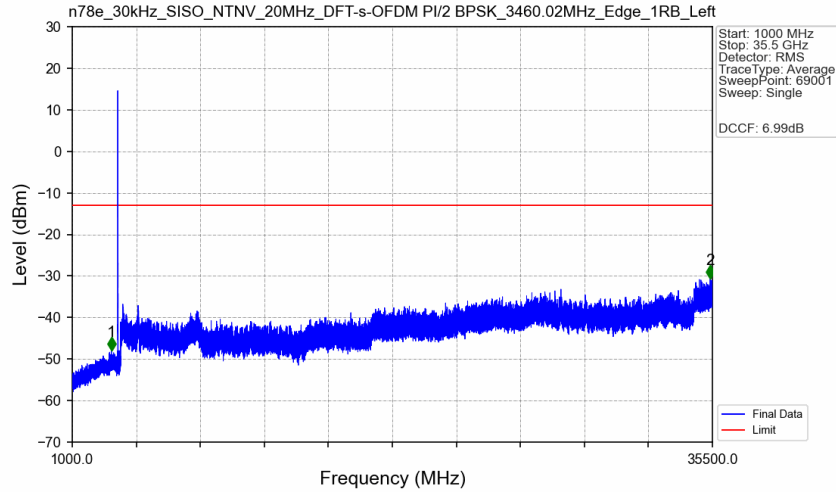
5.2.1 30_S_20M_NTNV





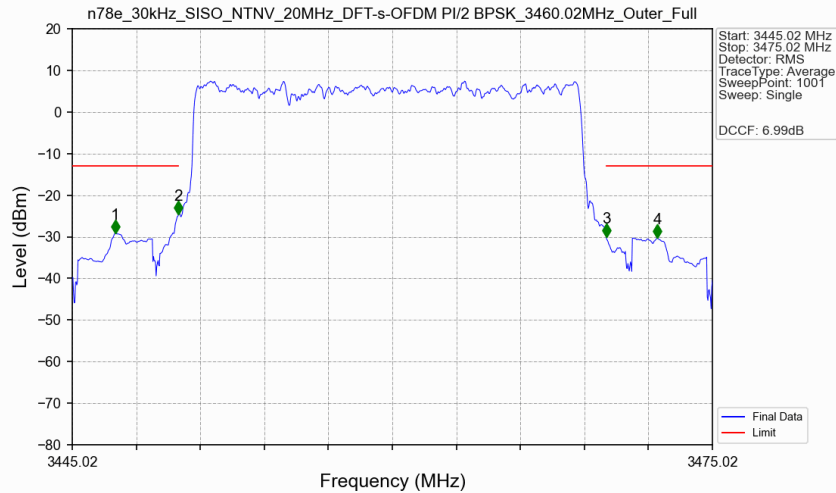
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	769.750	-53.79	-13	Pass

n78e_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3460.02MHz_Edge_1RB_Left_Ant6



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3445.02	1	/	1	3111.000	-47.85	-13	Pass
3445.02	3475.02	1	/	/	/	/	/	/
3475.02	35500	1	/	2	35381.000	-30.68	-13	Pass

n78e_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3460.02MHz_Outer_Full_Ant6



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3445.02	3449.02	0.5	CHP	1	3447.030	-29.15	-13	Pass
3449.02	3450.02	0.19359	CHP	2	3450.000	-24.52	-13	Pass
3450.02	3470.02	0.19359	CHP	/	/	/	/	/
3470.02	3471.02	0.19359	CHP	3	3470.040	-30.05	-13	Pass
3471.02	3475.02	0.5	CHP	4	3472.440	-30.27	-13	Pass