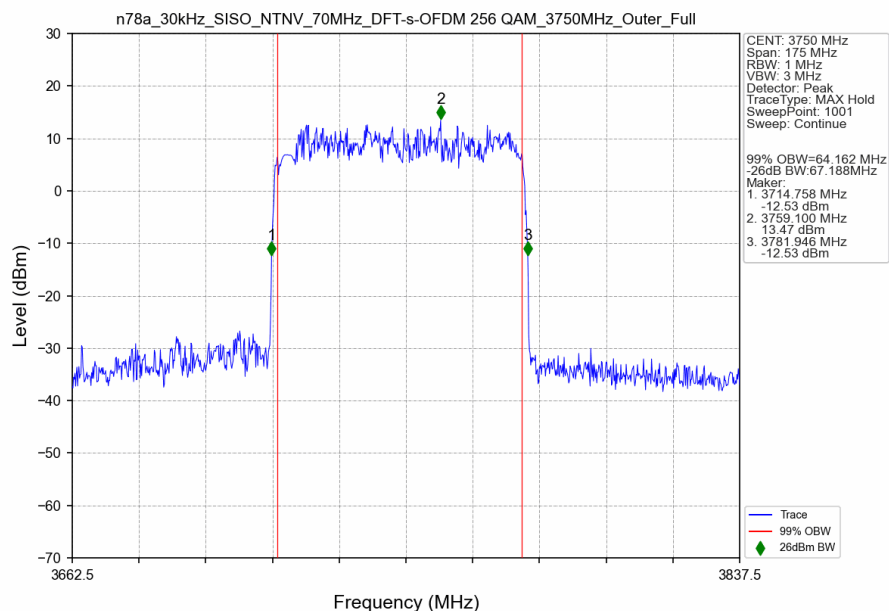
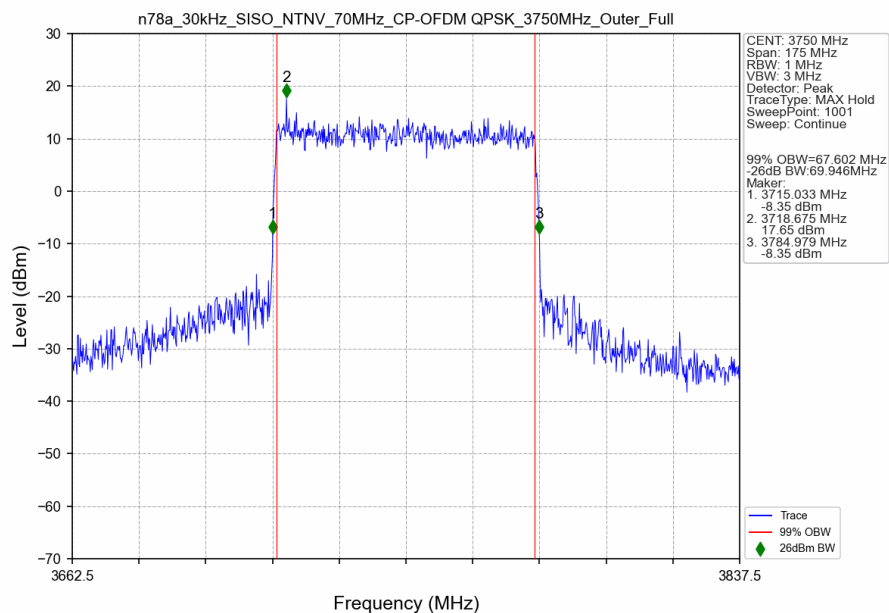


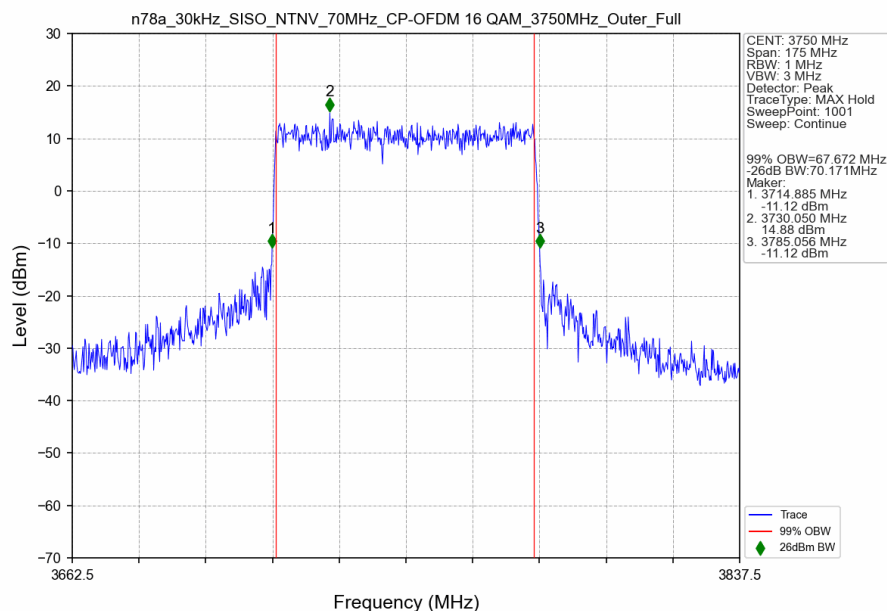
n78a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM 256 QAM_3750MHz_Outer_Full_Ant6



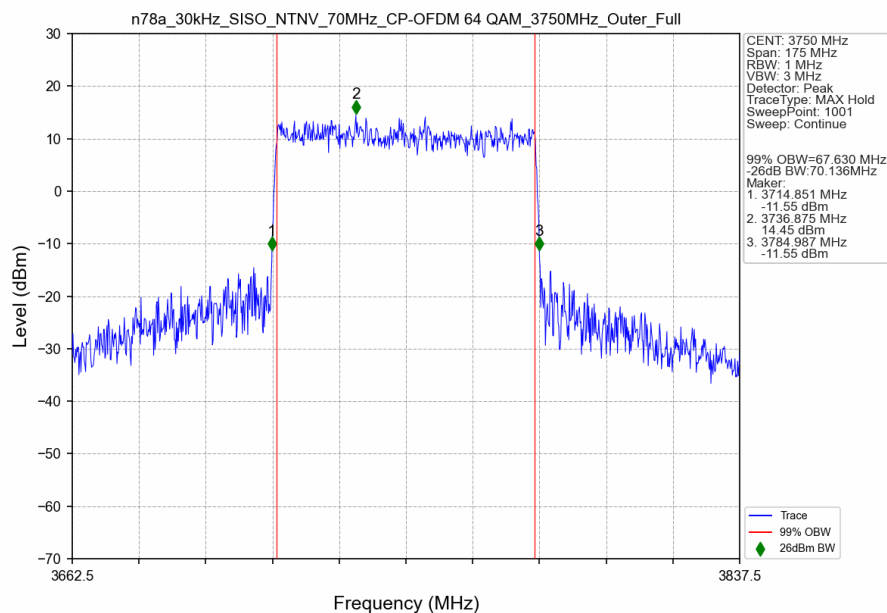
n78a_30kHz_SISO_NTNV_70MHz_CP-OFDM QPSK_3750MHz_Outer_Full_Ant6



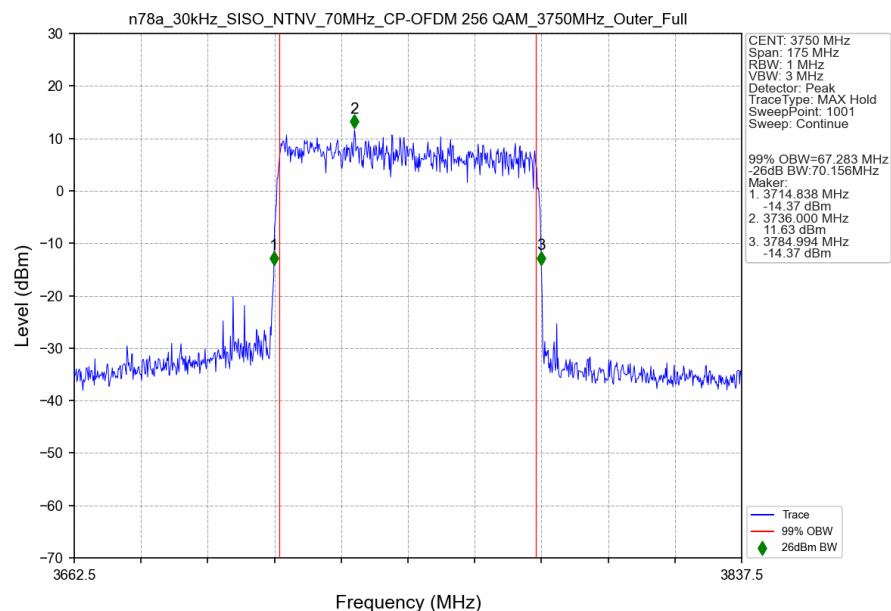
n78a_30kHz_SISO_NTNV_70MHz_CP-OFDM 16 QAM_3750MHz_Outer_Full_Ant6



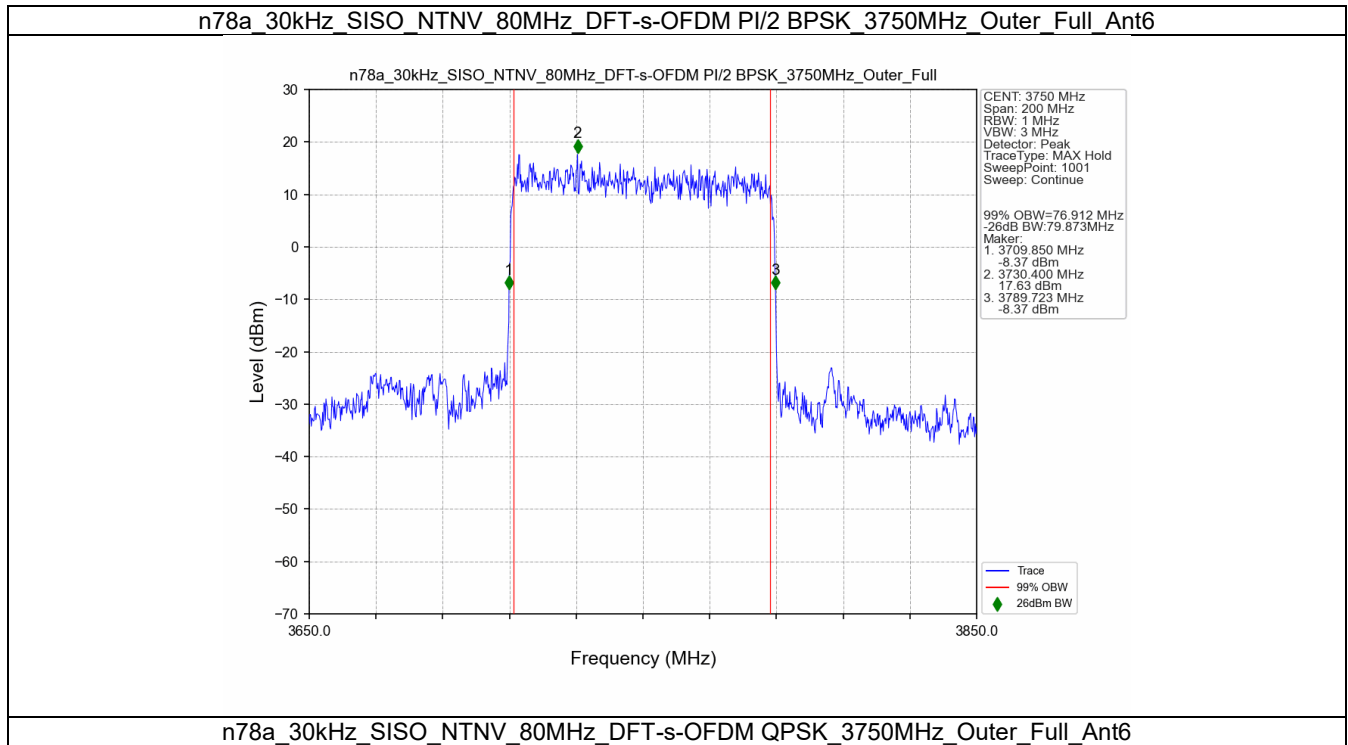
n78a_30kHz_SISO_NTNV_70MHz_CP-OFDM 64 QAM_3750MHz_Outer_Full_Ant6

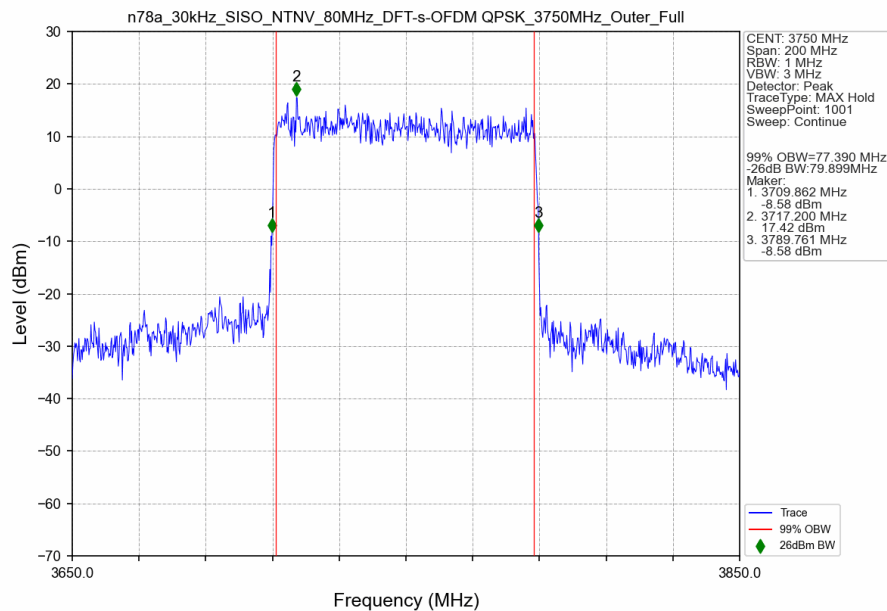


n78a_30kHz_SISO_NTNV_70MHz_CP-OFDM_256_QAM_3750MHz_Outer_Full_Ant6

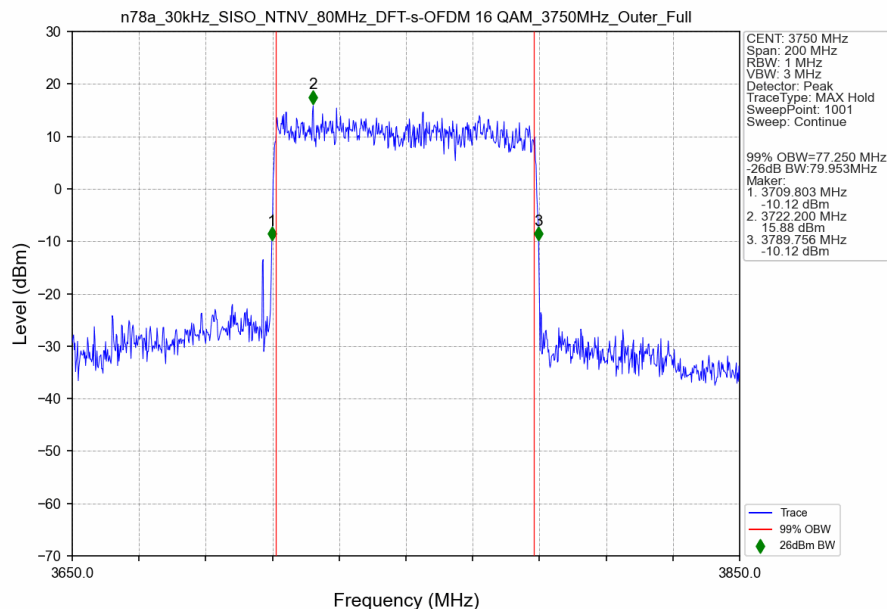


3.2.7 30_S_80M_NTNV

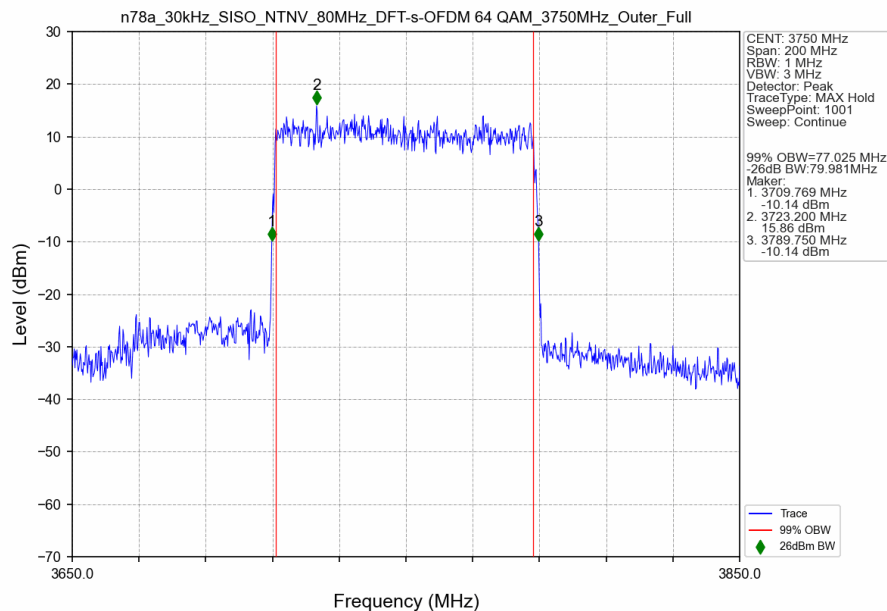




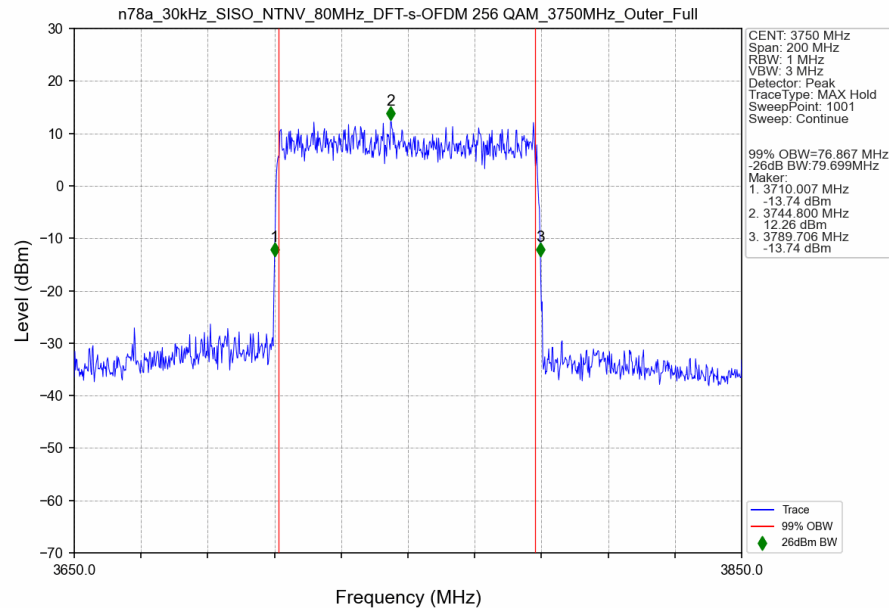
n78a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 16 QAM_3750MHz_Outer_Full_Ant6



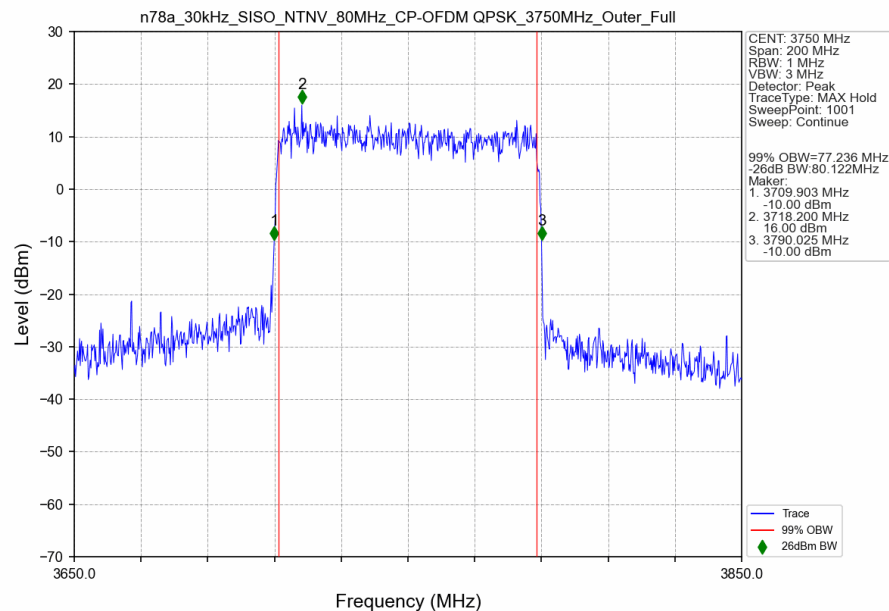
n78a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 64 QAM_3750MHz_Outer_Full_Ant6



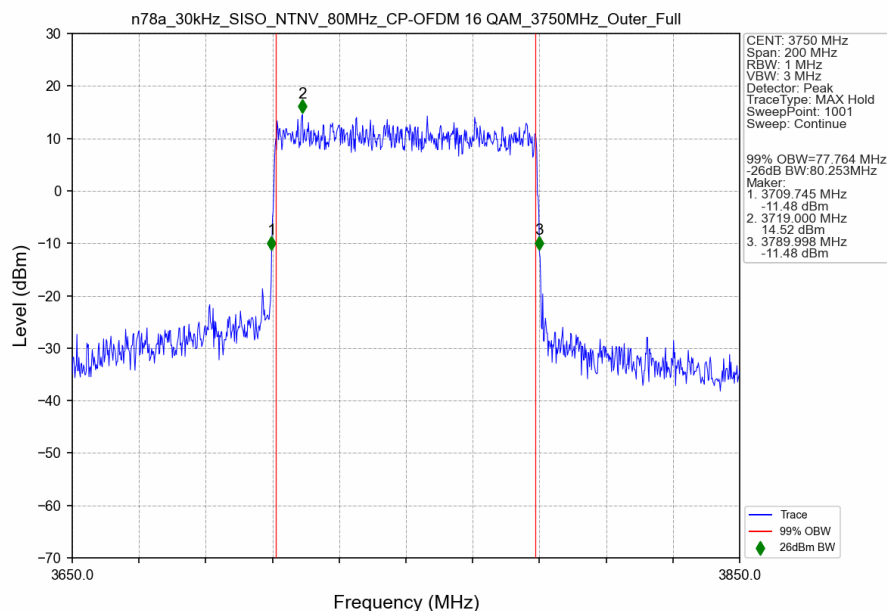
n78a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 256 QAM_3750MHz_Outer_Full_Ant6



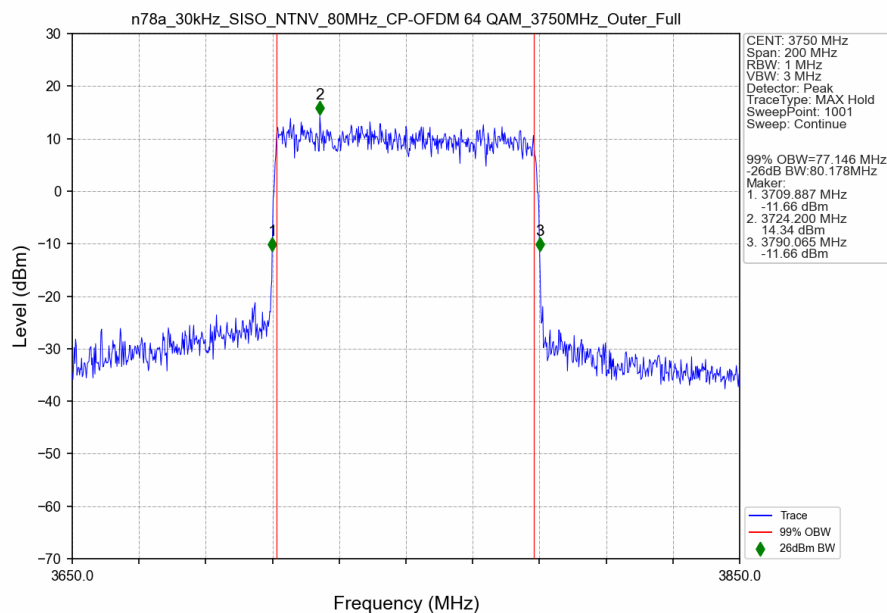
n78a_30kHz_SISO_NTNV_80MHz_CP-OFDM QPSK_3750MHz_Outer_Full_Ant6



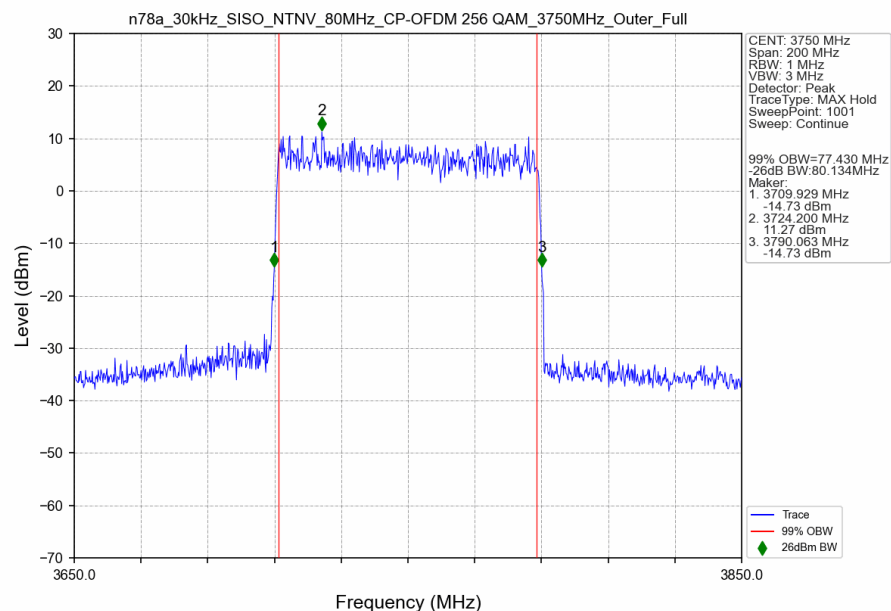
n78a_30kHz_SISO_NTNV_80MHz_CP-OFDM 16 QAM 3750MHz_Outer_Full_Ant6



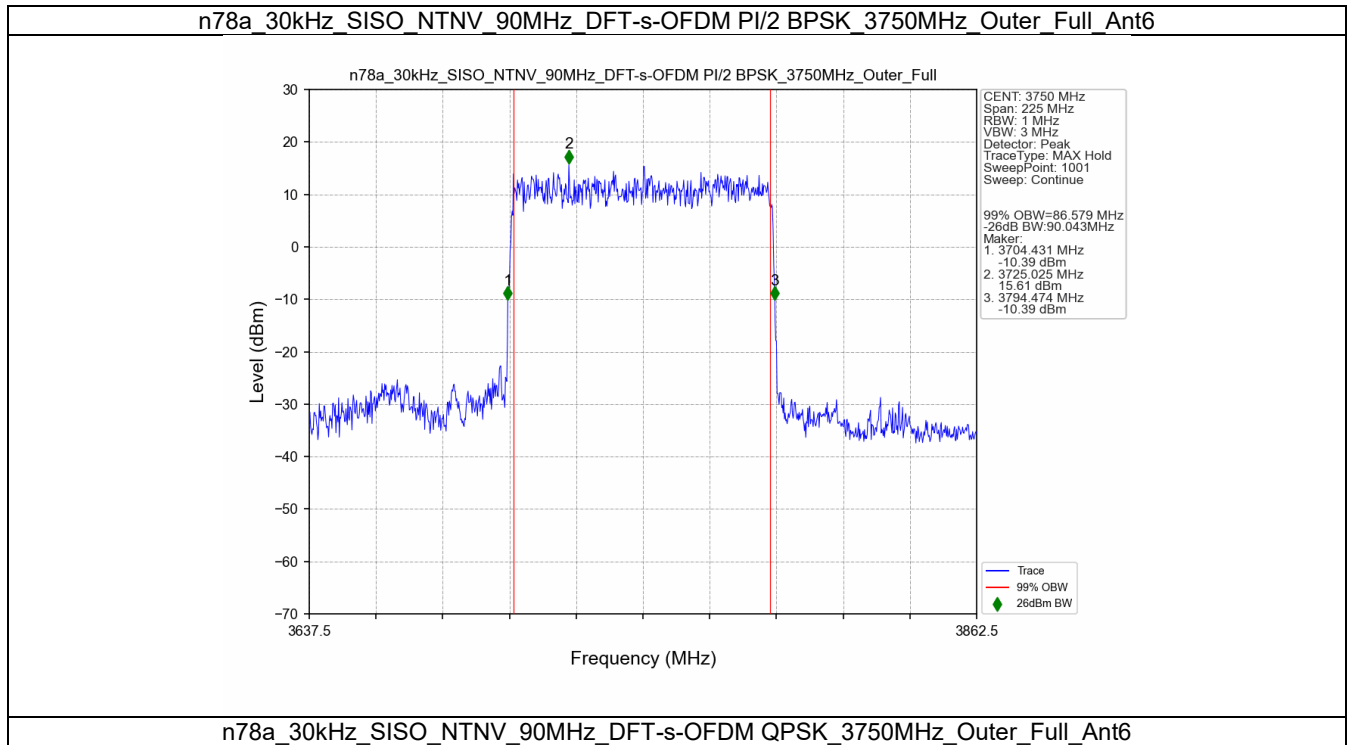
n78a_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM 3750MHz_Outer_Full_Ant6

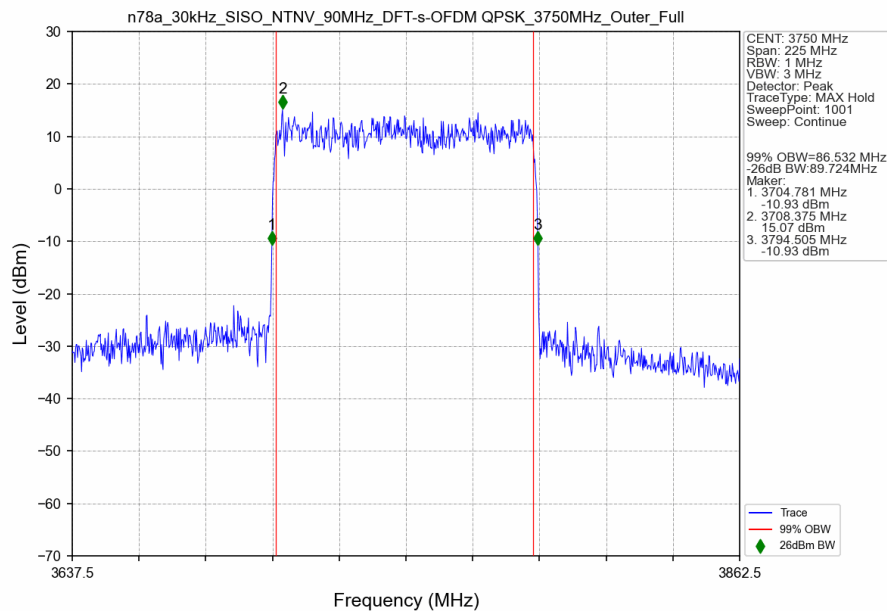


n78a_30kHz_SISO_NTNV_80MHz_CP-OFDM_256_QAM_3750MHz_Outer_Full_Ant6

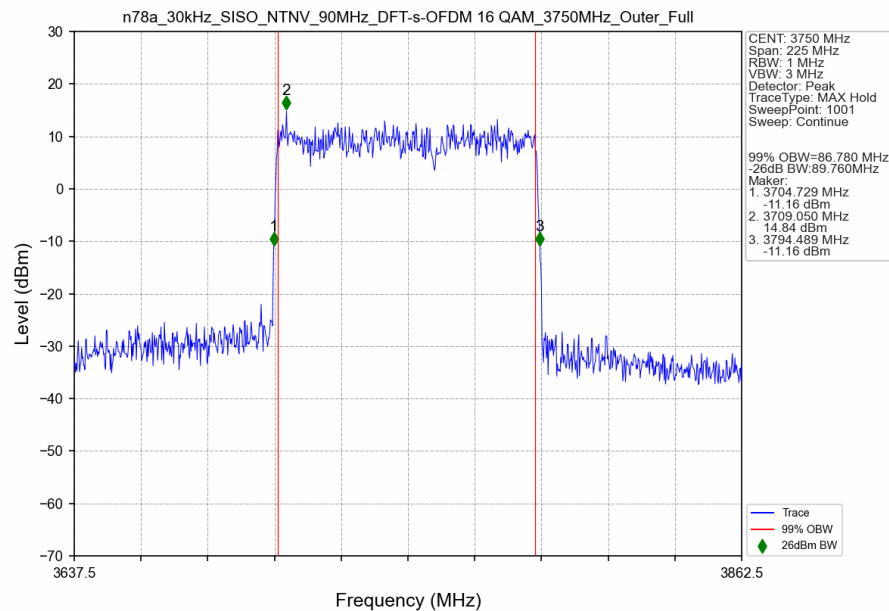


3.2.8 30_S_90M_NTNV

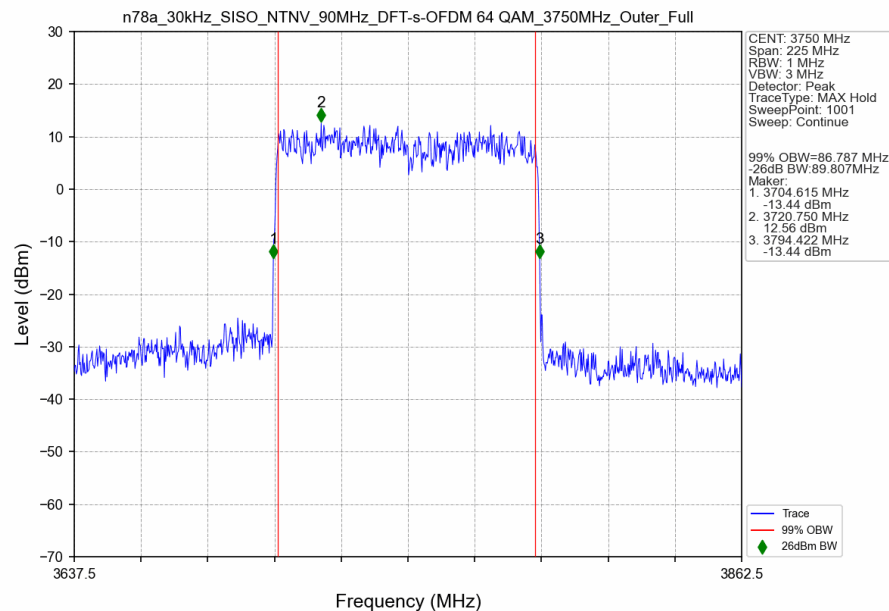




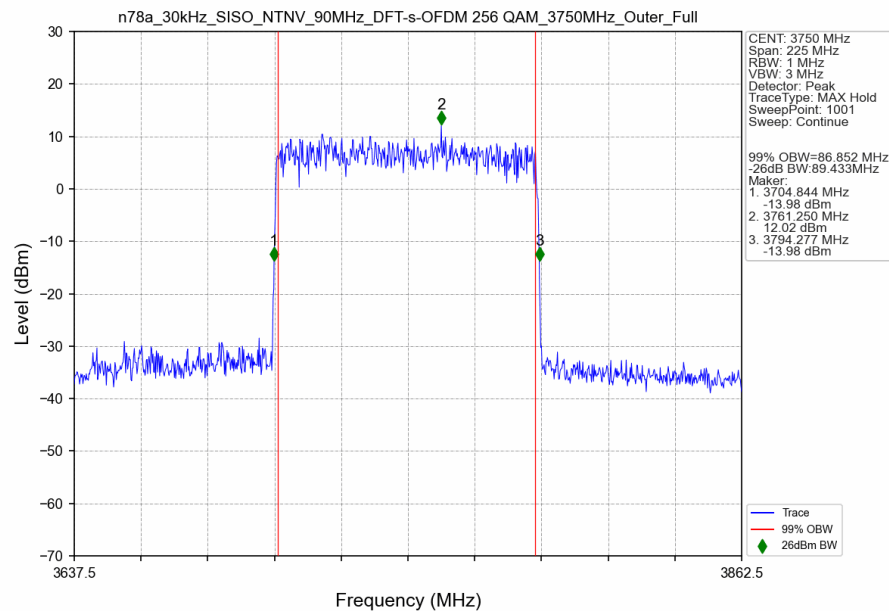
n78a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 16 QAM_3750MHz_Outer_Full_Ant6



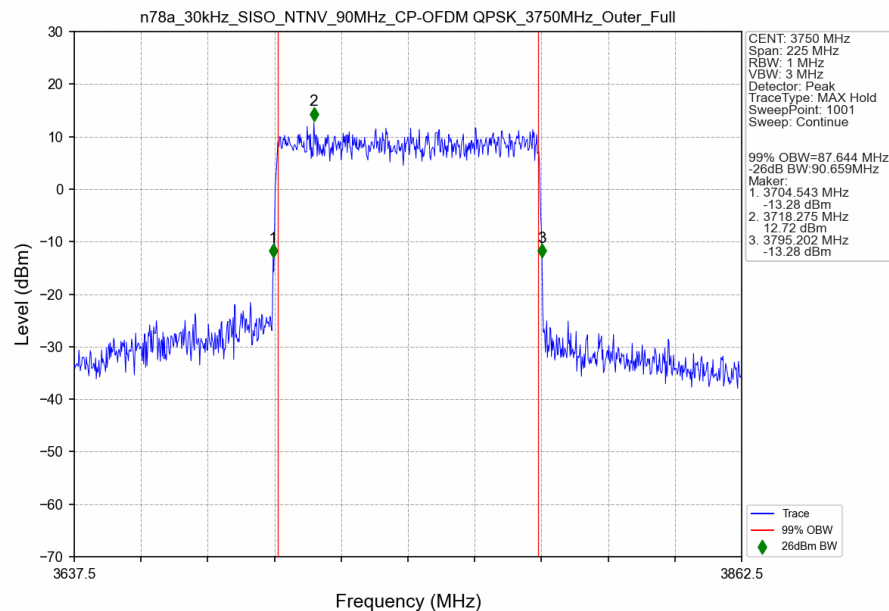
n78a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 64 QAM_3750MHz_Outer_Full_Ant6



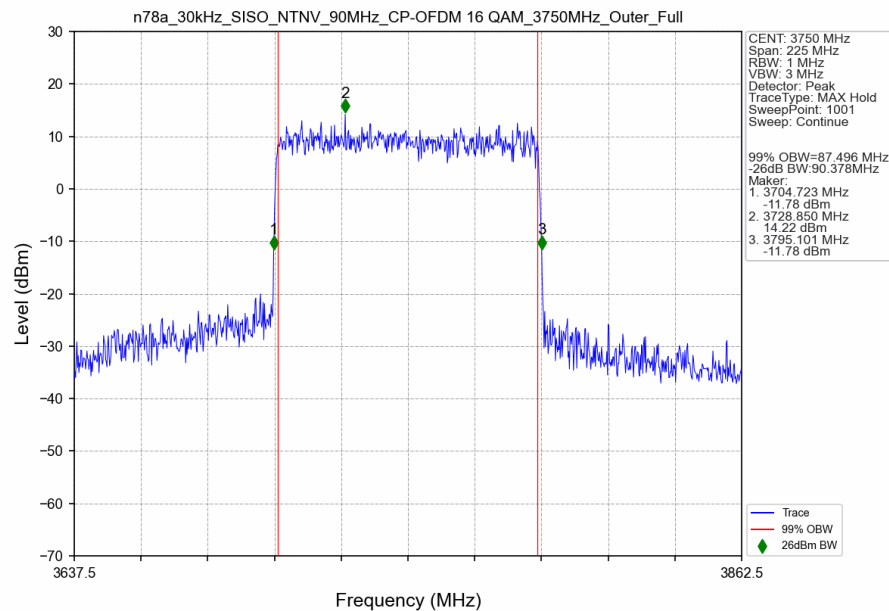
n78a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 256 QAM_3750MHz_Outer_Full_Ant6



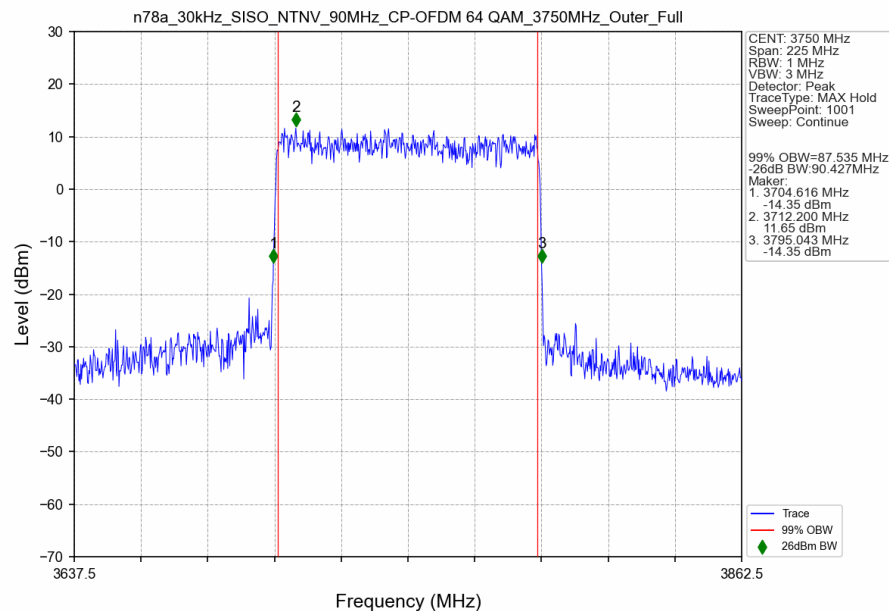
n78a_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3750MHz_Outer_Full_Ant6



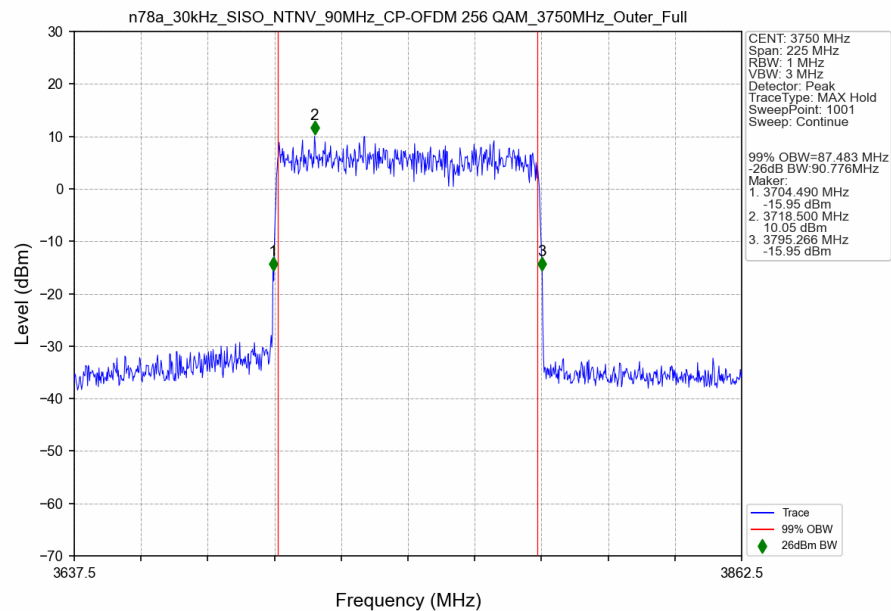
n78a_30kHz_SISO_NTNV_90MHz_CP-OFDM 16 QAM 3750MHz_Outer_Full_Ant6



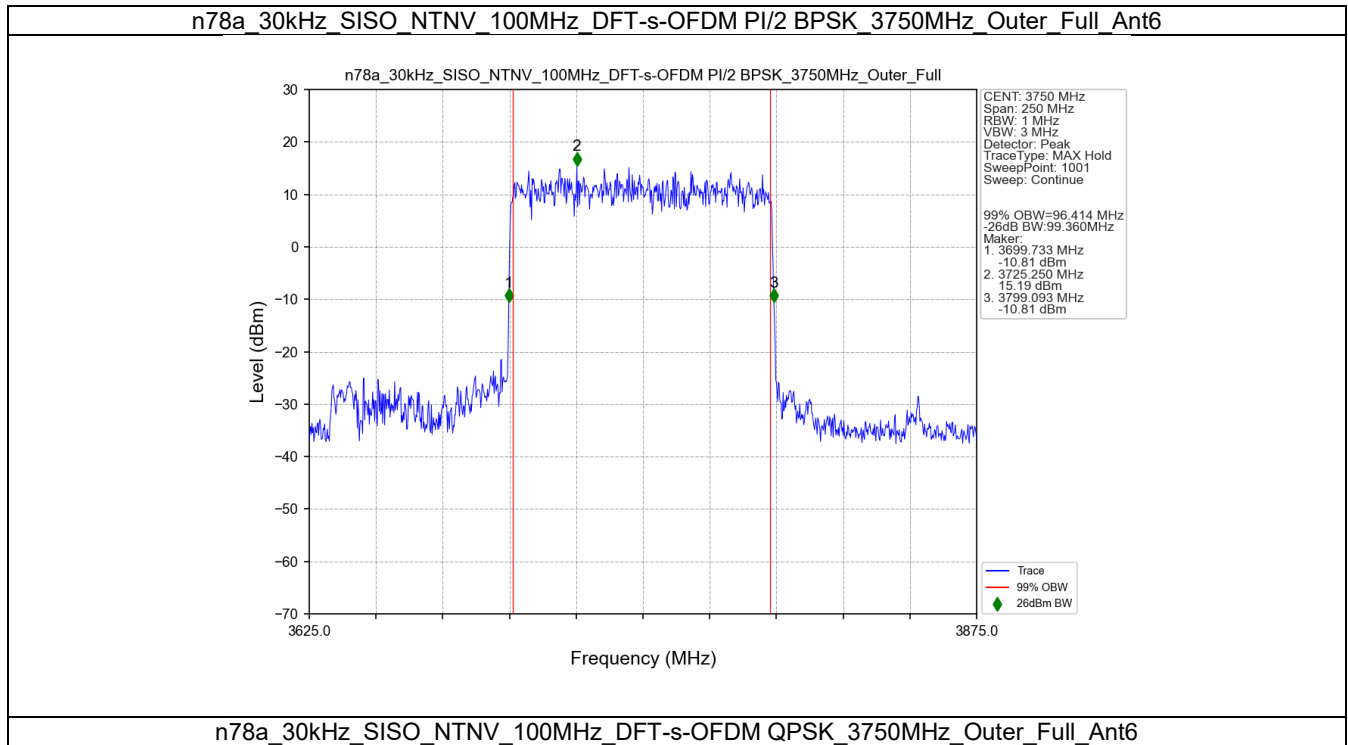
n78a_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM 3750MHz_Outer_Full_Ant6

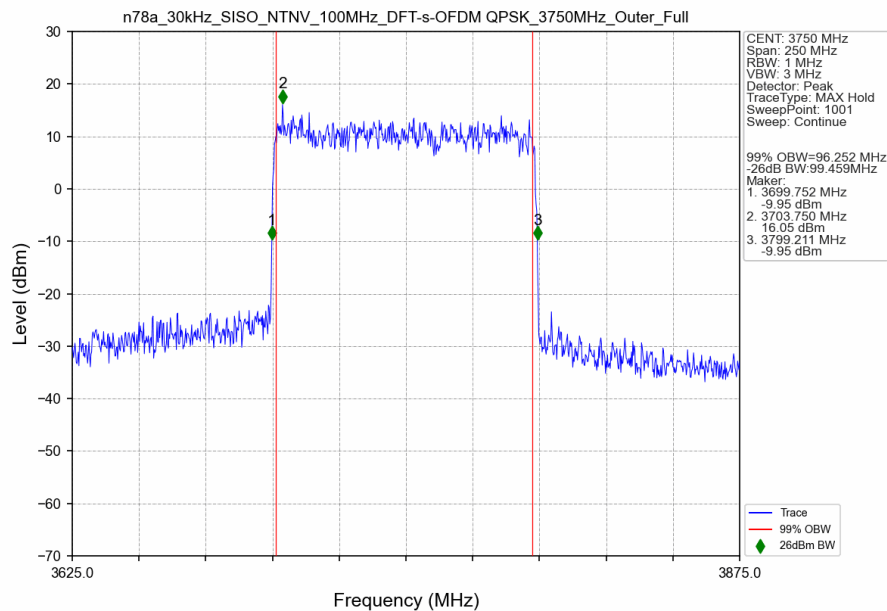


n78a_30kHz_SISO_NTNV_90MHz_CP-OFDM_256_QAM_3750MHz_Outer_Full_Ant6

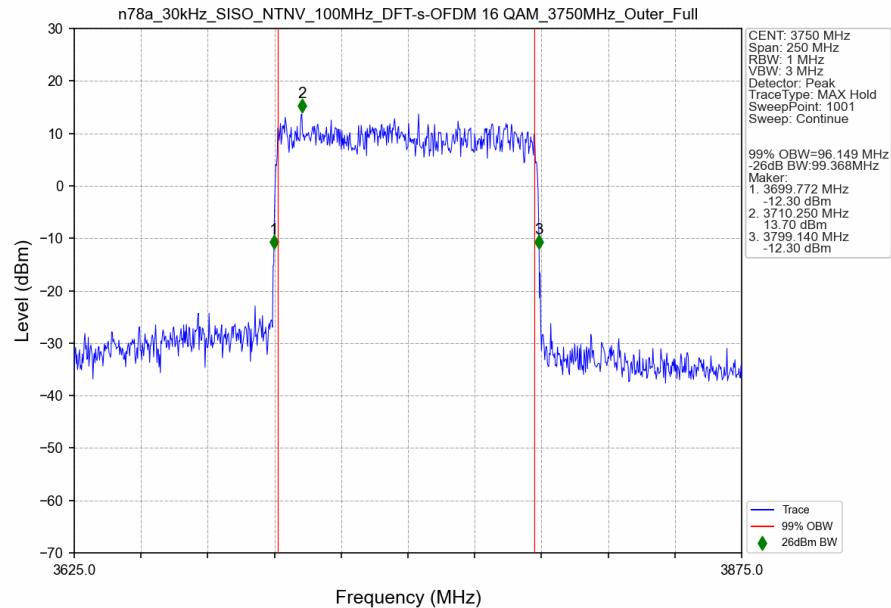


3.2.9 30_S_100M_NTNV

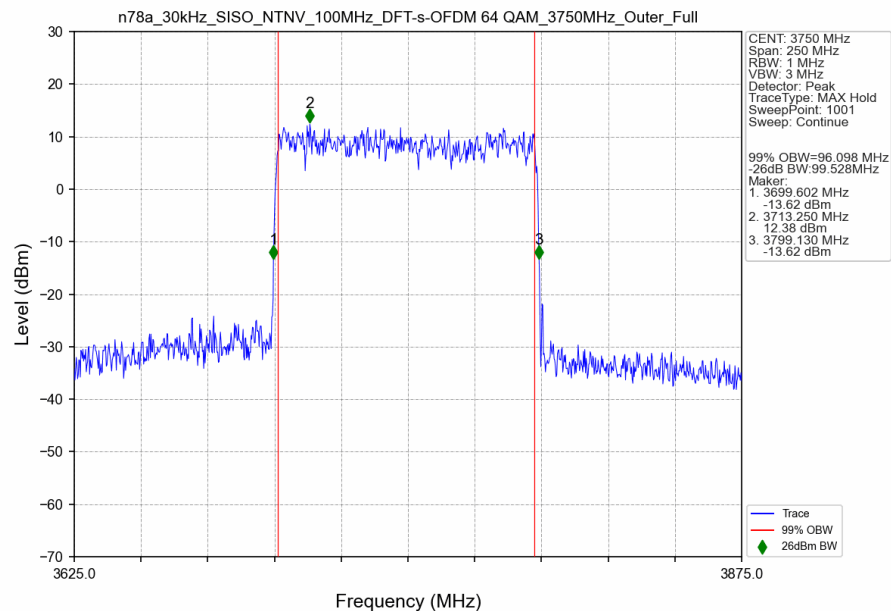




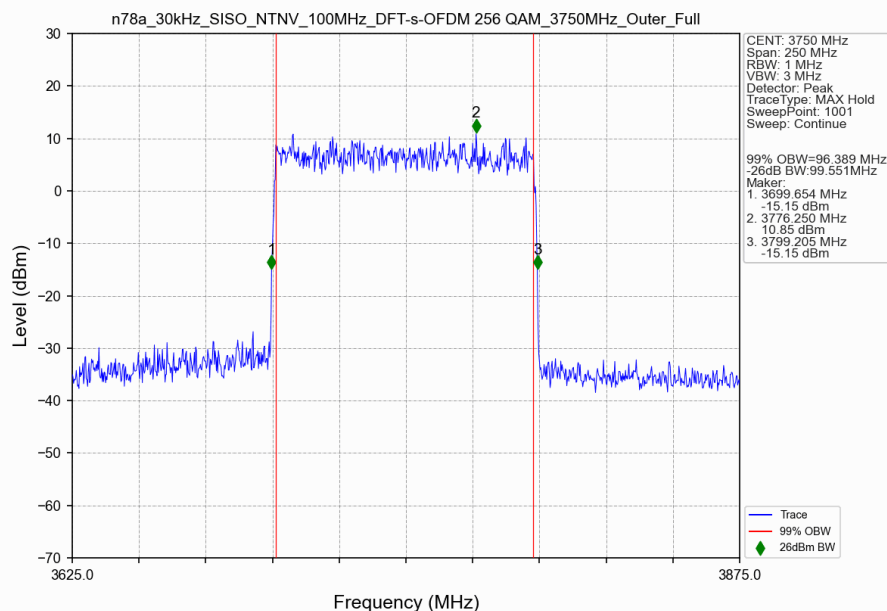
n78a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 16 QAM_3750MHz_Outer_Full_Ant6



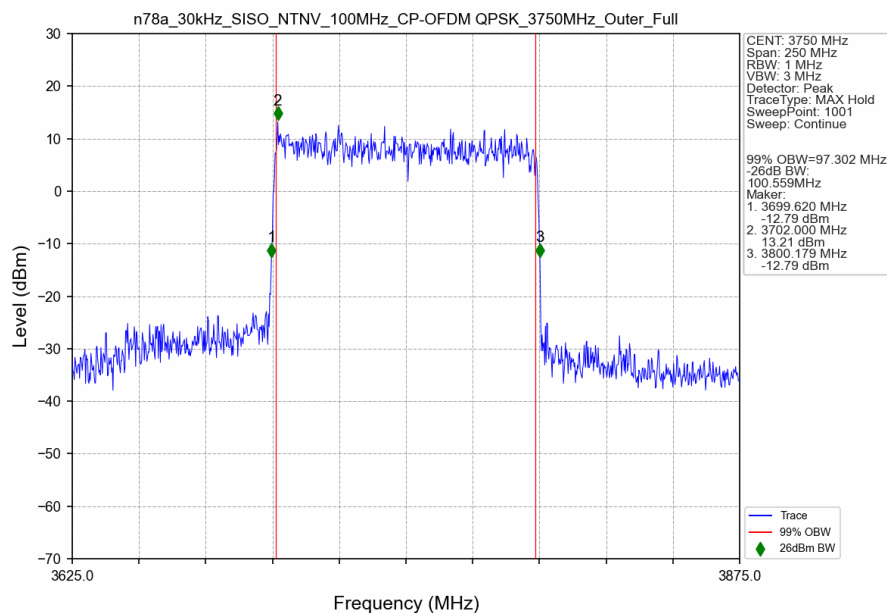
n78a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 64 QAM_3750MHz_Outer_Full_Ant6



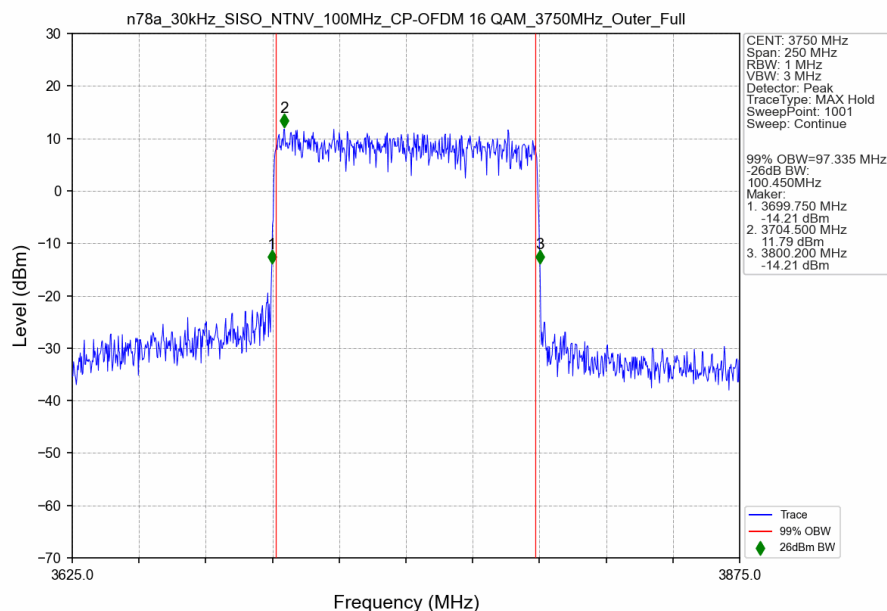
n78a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 256 QAM_3750MHz_Outer_Full_Ant6



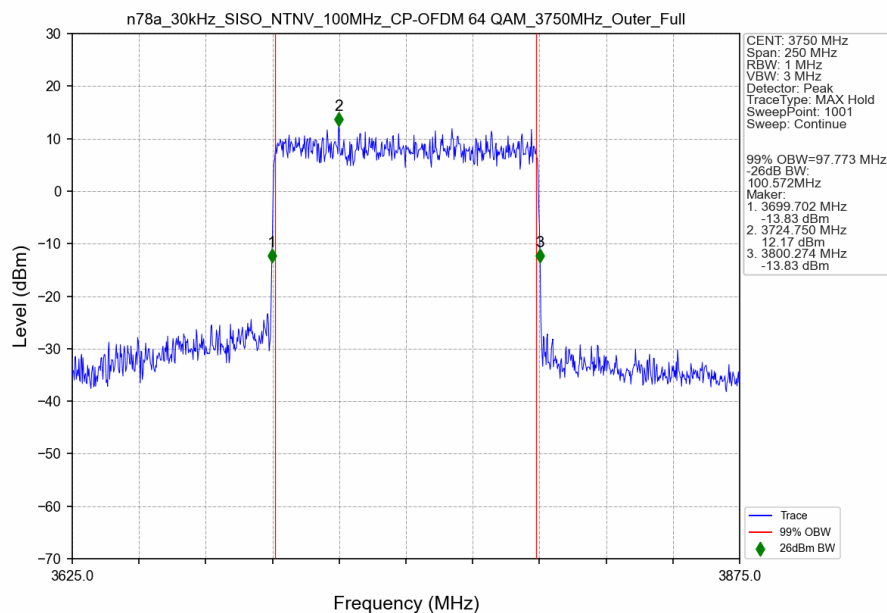
n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3750MHz_Outer_Full_Ant6



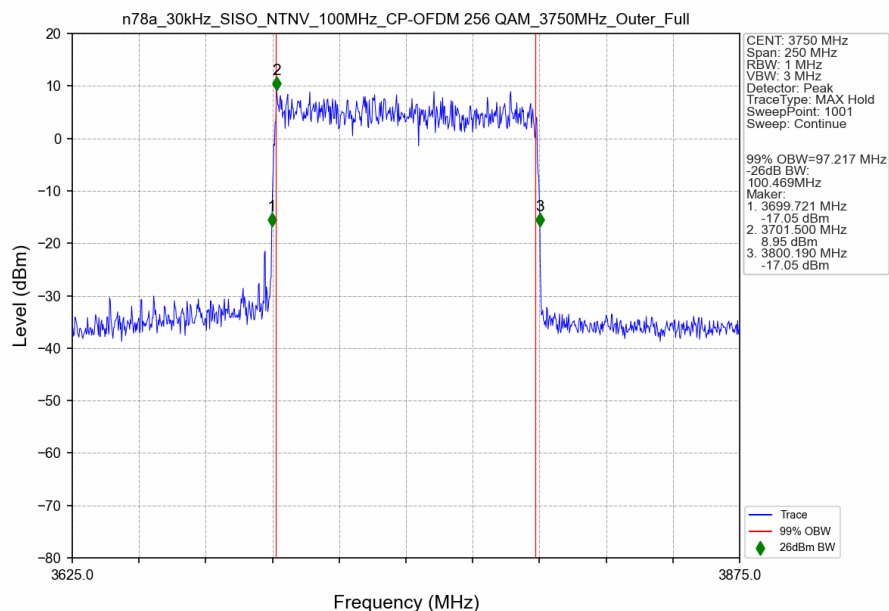
n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM 16 QAM_3750MHz_Outer_Full_Ant6



n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3750MHz_Outer_Full_Ant6



n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM_3750MHz_Outer_Full_Ant6





4. Peak-Average Ratio

4.1 Test Result

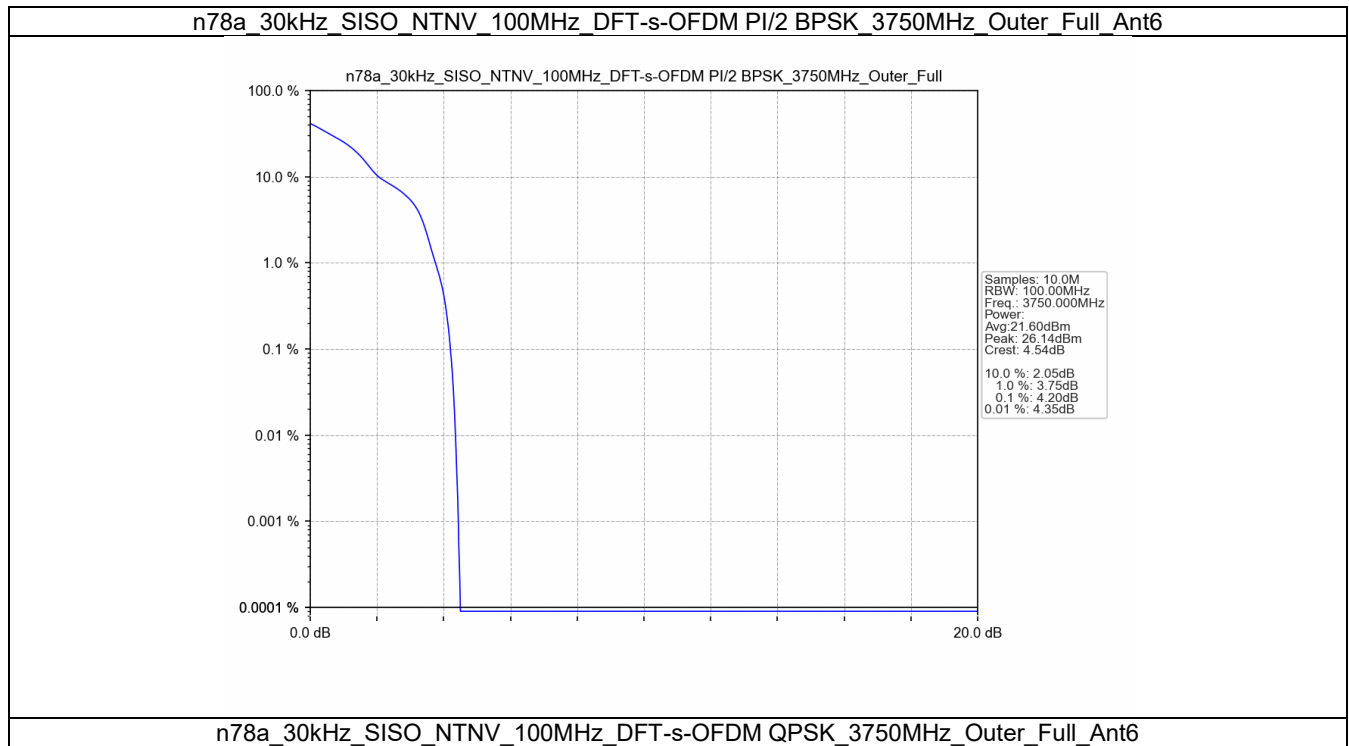
4.1.1 30_S_100M_NTNV

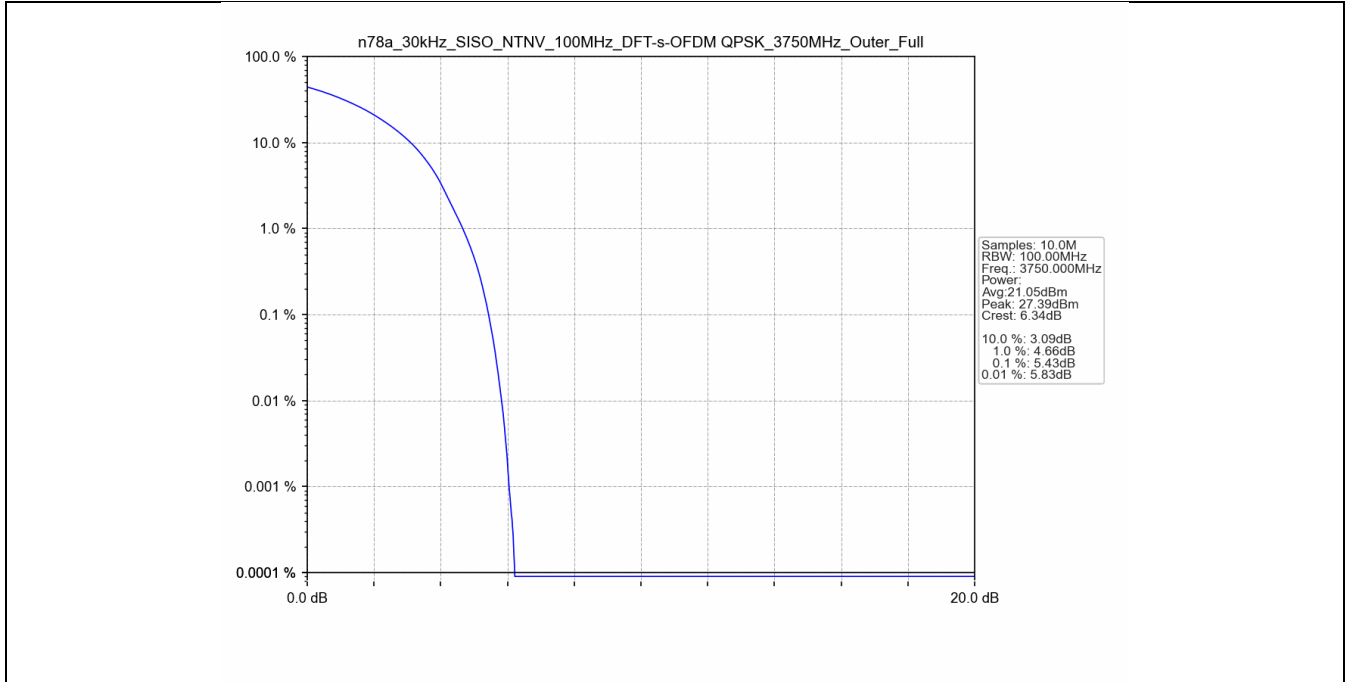
5G NR n78a SCS=30kHz SISO 100MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant6	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3750	Outer_Full	4.20	/	/	<=13	Pass
DFT-s-OFDM QPSK	3750	Outer_Full	5.43	/	/	<=13	Pass
CP-OFDM QPSK	3750	Outer_Full	8.15	/	/	<=13	Pass



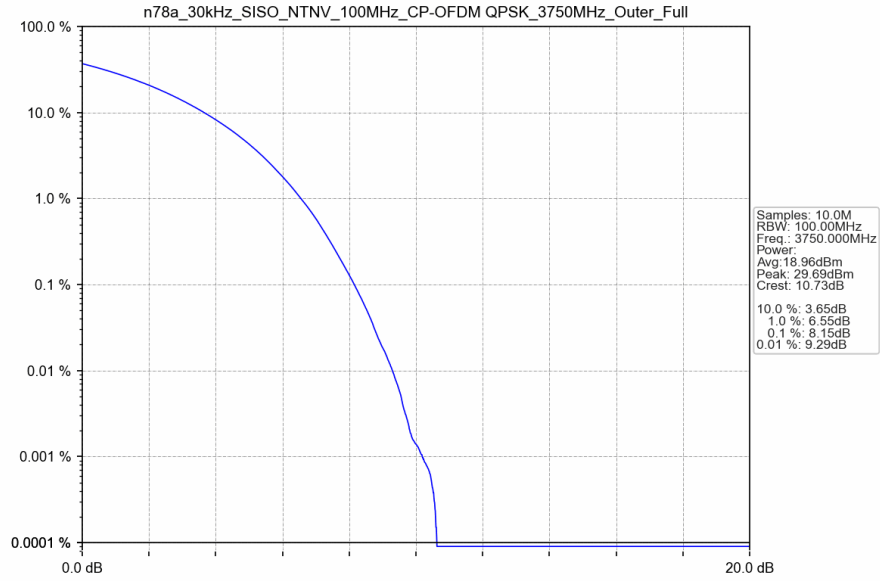
4.2 Test Graph

4.2.1 30_S_100M_NTNV





n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3750MHz_Outer_Full_Ant6





5. Spurious Emission

5.1 Test Result

5.1.1 30_S_20M_NTNV

5G NR n78a SCS=30kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant6	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3710.01	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3750	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	3789.99	Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	3710.01	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3750	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	3789.99	Outer_Full	Refer To Test Graph				Pass
CP-OFDM QPSK	3710.01	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3750	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	3789.99	Outer_Full	Refer To Test Graph				Pass

5.1.2 30_S_60M_NTNV

5G NR n78a SCS=30kHz SISO 60MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant6	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3730.02	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3750	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	3769.98	Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	3730.02	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3750	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	3769.98	Outer_Full	Refer To Test Graph				Pass
CP-OFDM QPSK	3730.02	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3750	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	3769.98	Outer_Full	Refer To Test Graph				Pass



Report No.: SUCR260400031710
Page: 91 of 136

5.1.3 30_S_100M_NTNV

5G NR n78a SCS=30kHz SISO 100MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant6	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3750	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3750	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	3750	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3750	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
CP-OFDM QPSK	3750	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3750	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

