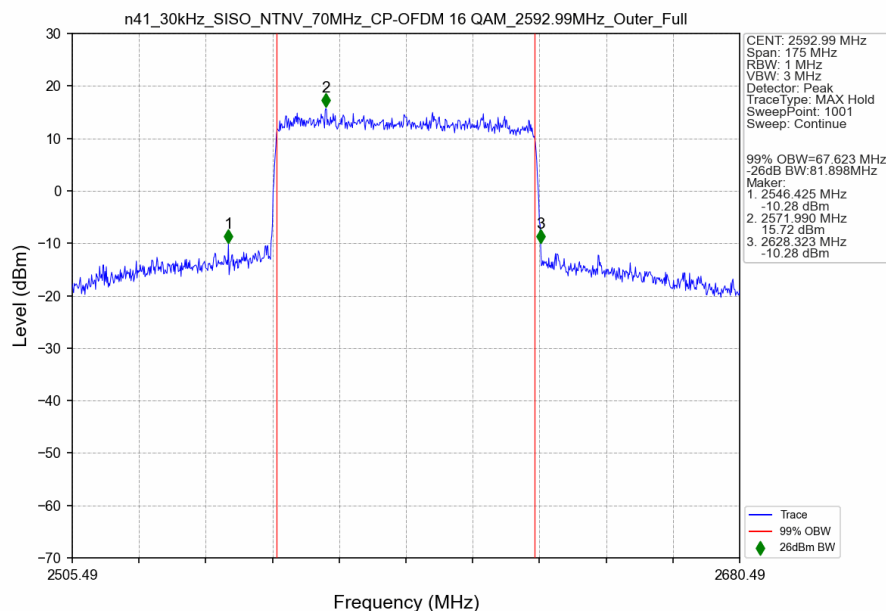
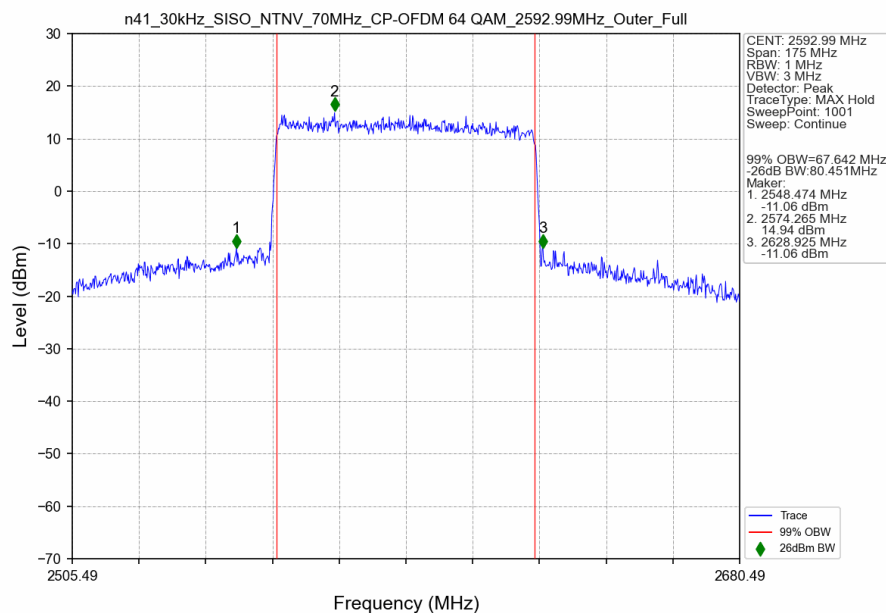


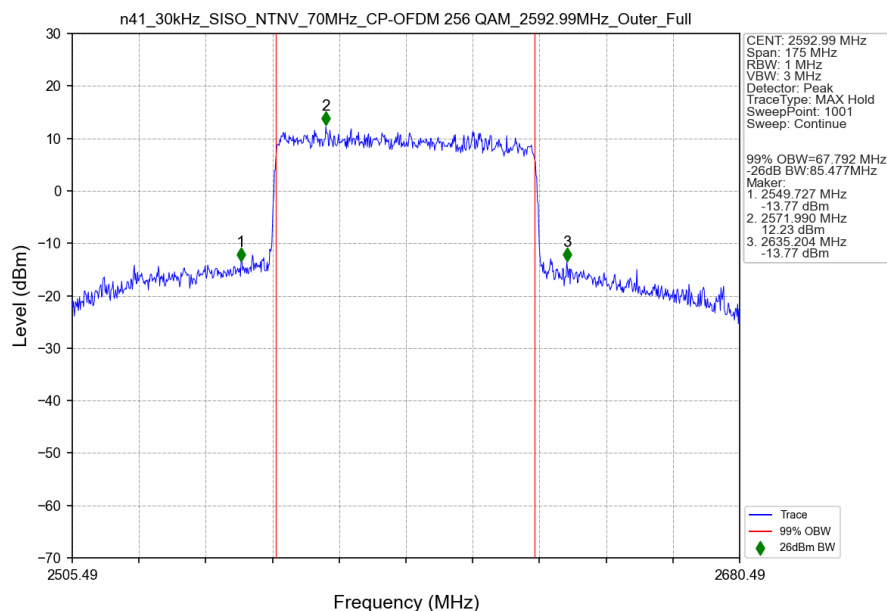
n41_30kHz_SISO_NTNV_70MHz_CP-OFDM 16 QAM_2592.99MHz_Outer_Full_Ant4



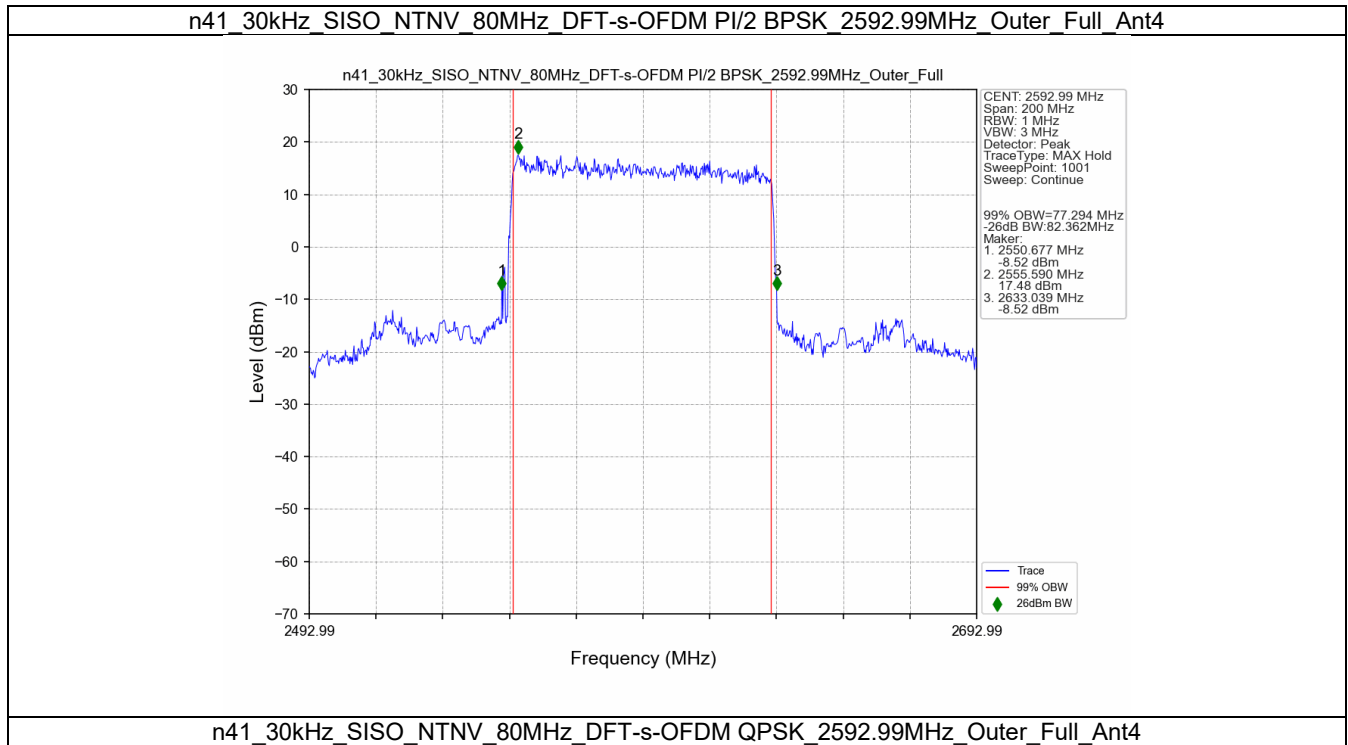
n41_30kHz_SISO_NTNV_70MHz_CP-OFDM 64 QAM_2592.99MHz_Outer_Full_Ant4

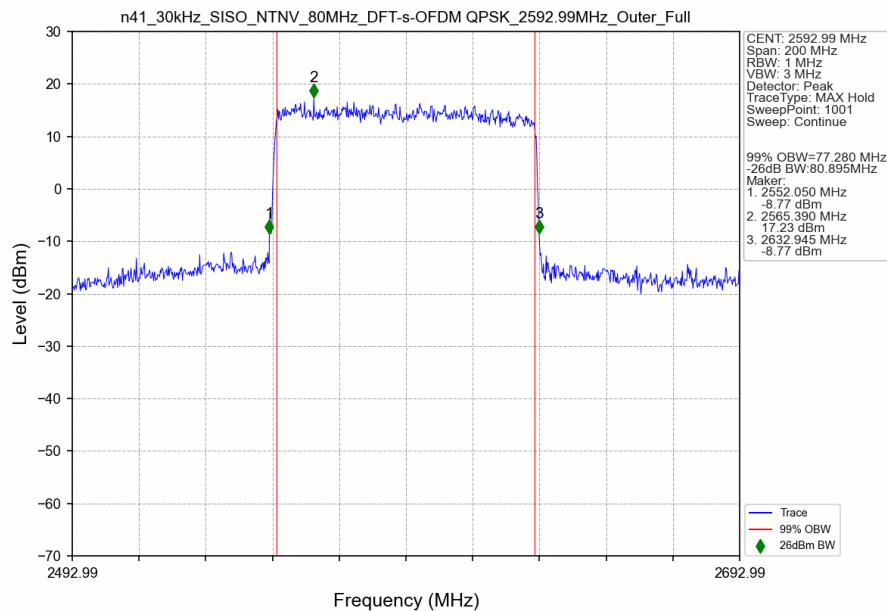


n41_30kHz_SISO_NTNV_70MHz_CP-OFDM 256 QAM 2592.99MHz_Outer_Full_Ant4

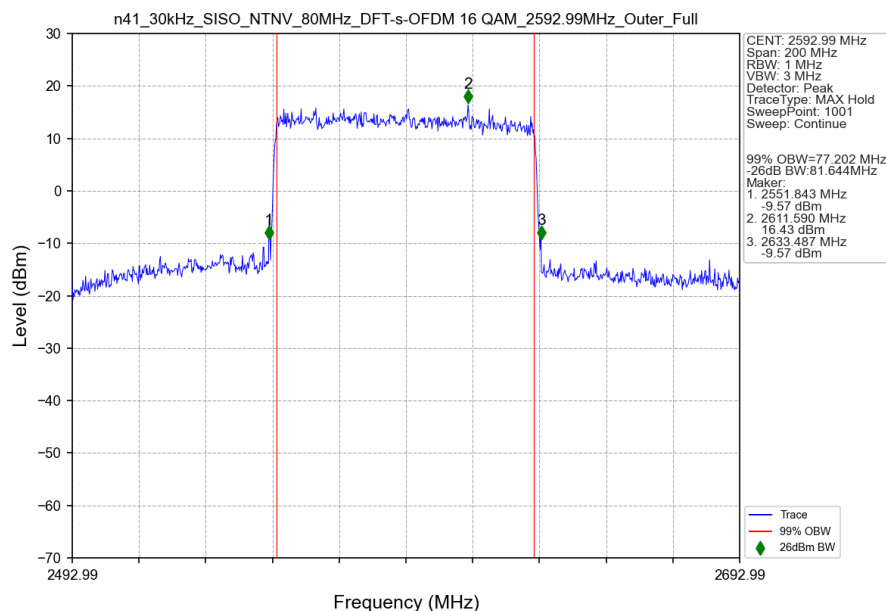


3.2.7 30_S_80M_NTNV

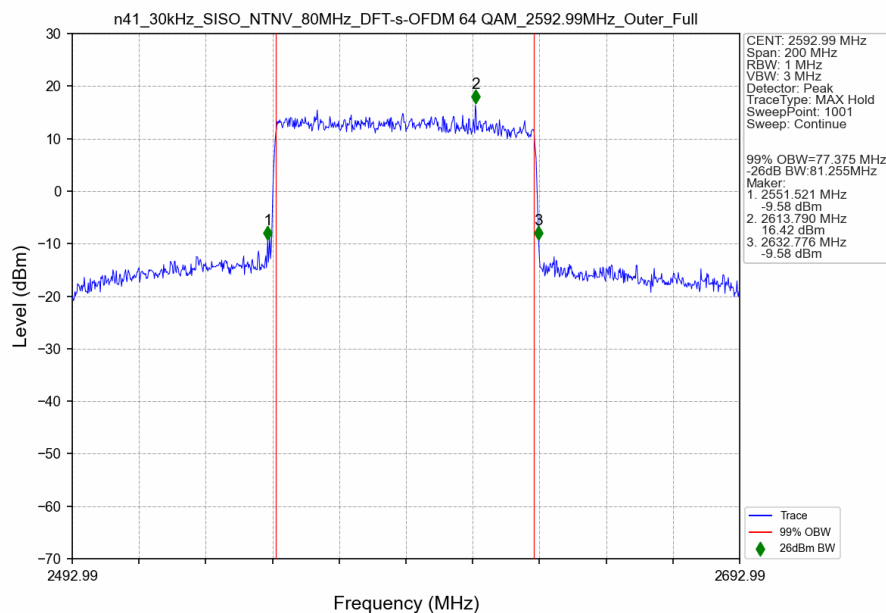




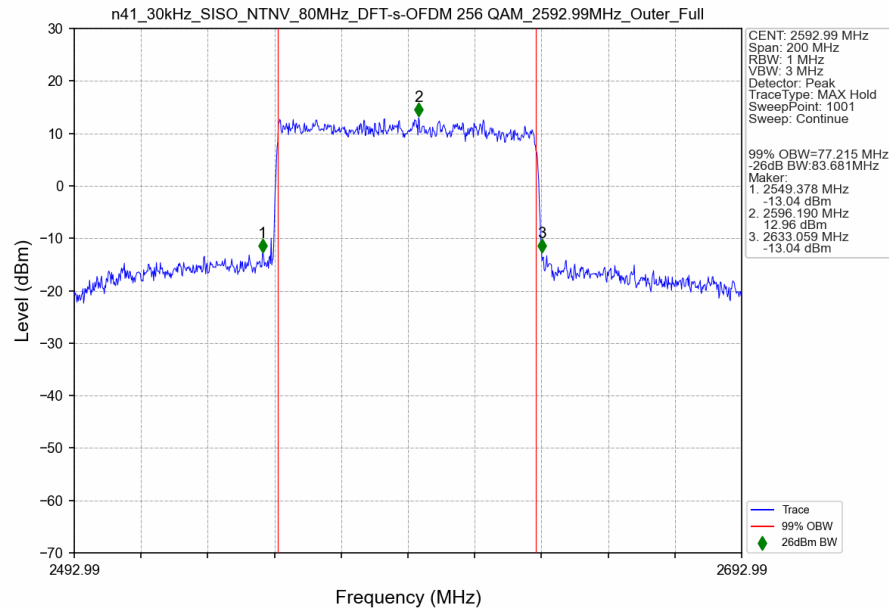
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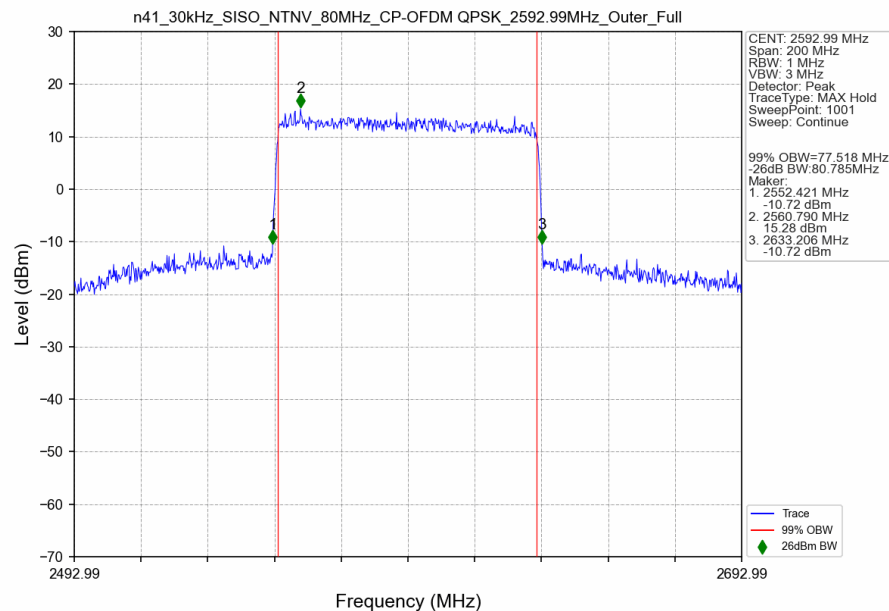
n41_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_64_QAM_2592.99MHz_Outer_Full_Ant4



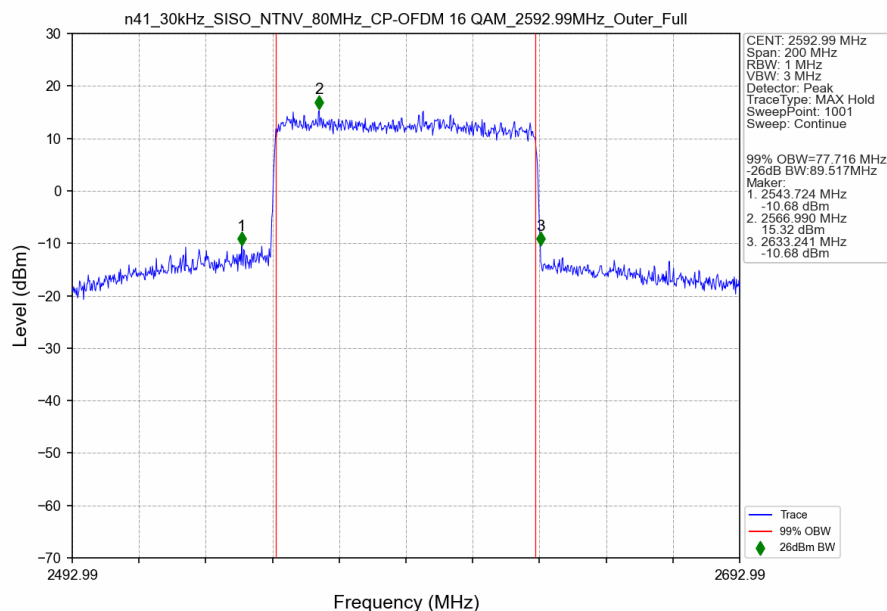
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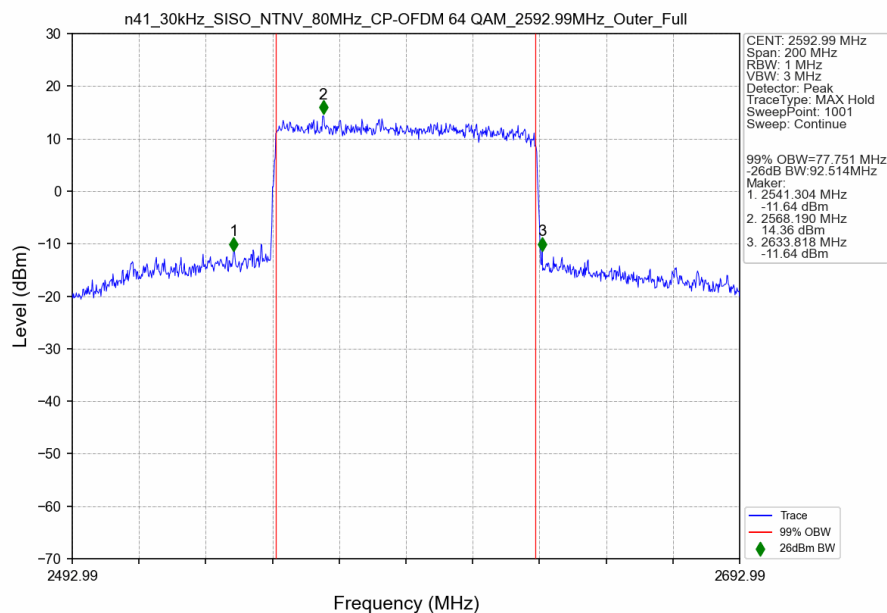
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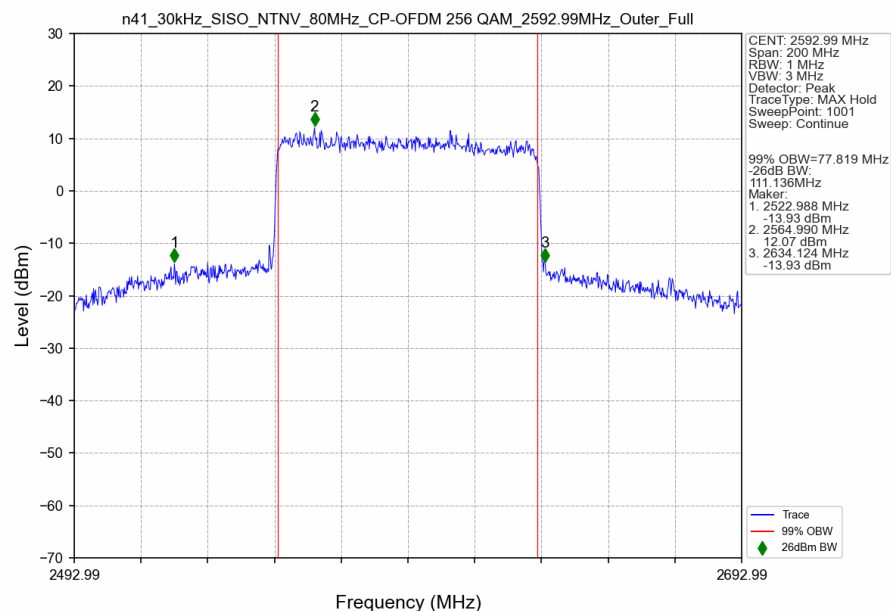
n41_30kHz_SISO_NTNV_80MHz_CP-OFDM 16 QAM_2592.99MHz_Outer_Full_Ant4



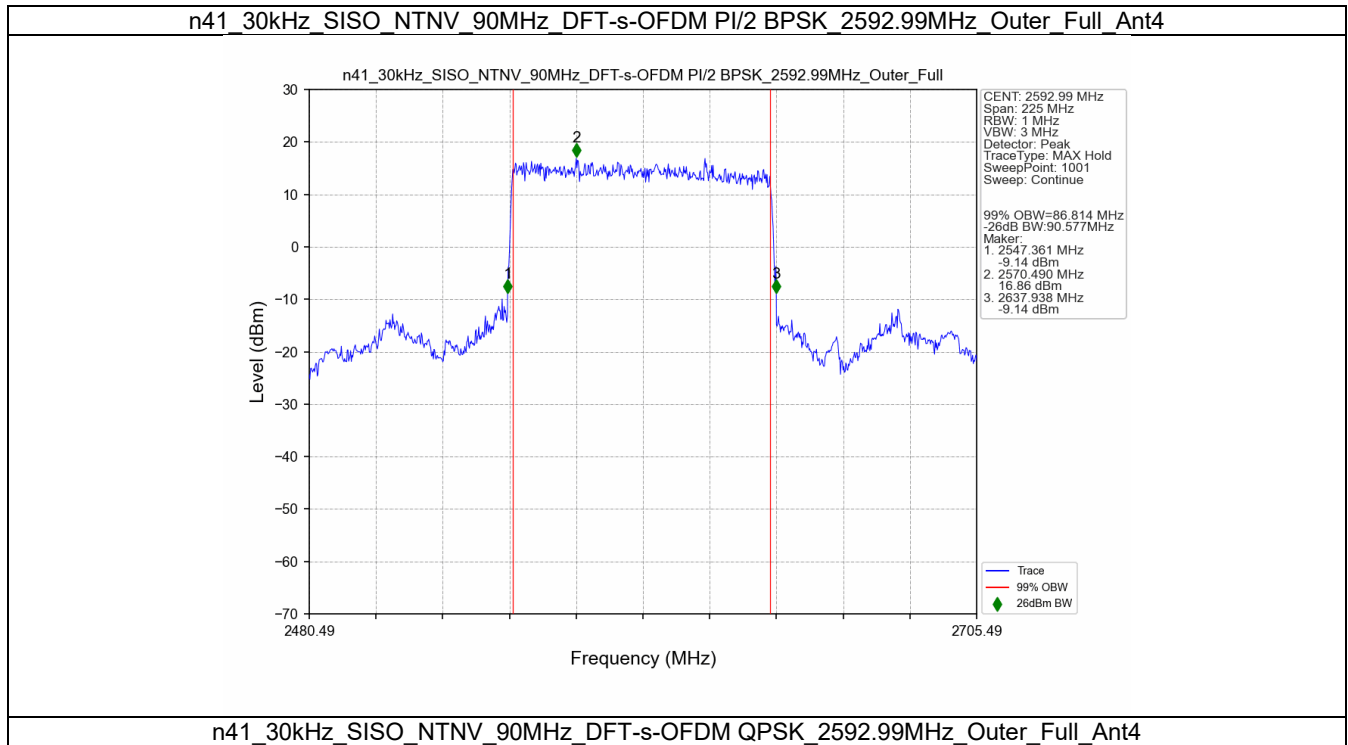
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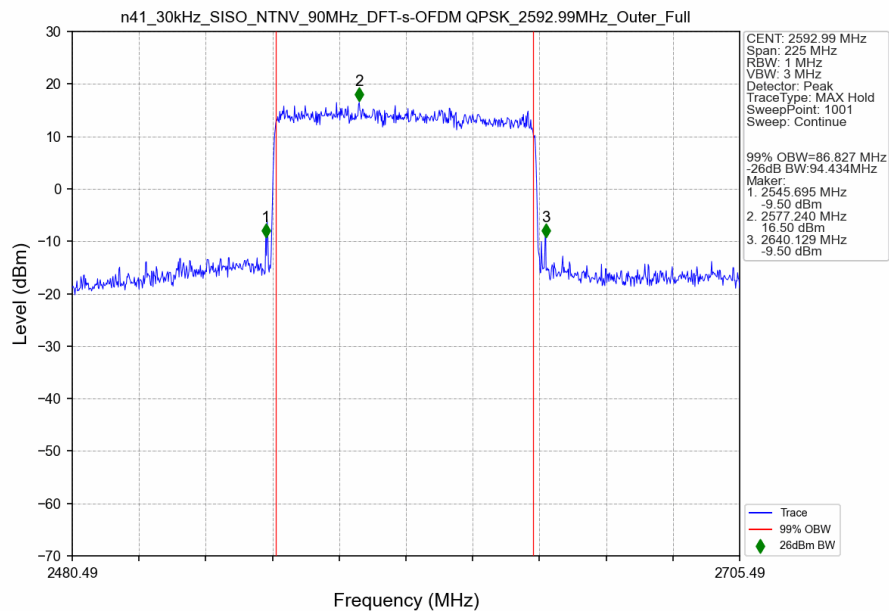


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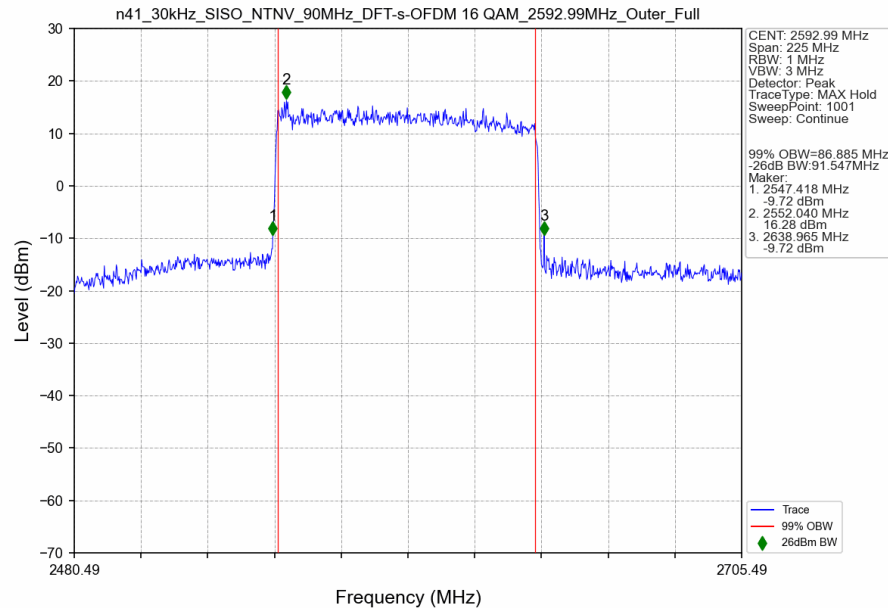


3.2.8 30_S_90M_NTNV

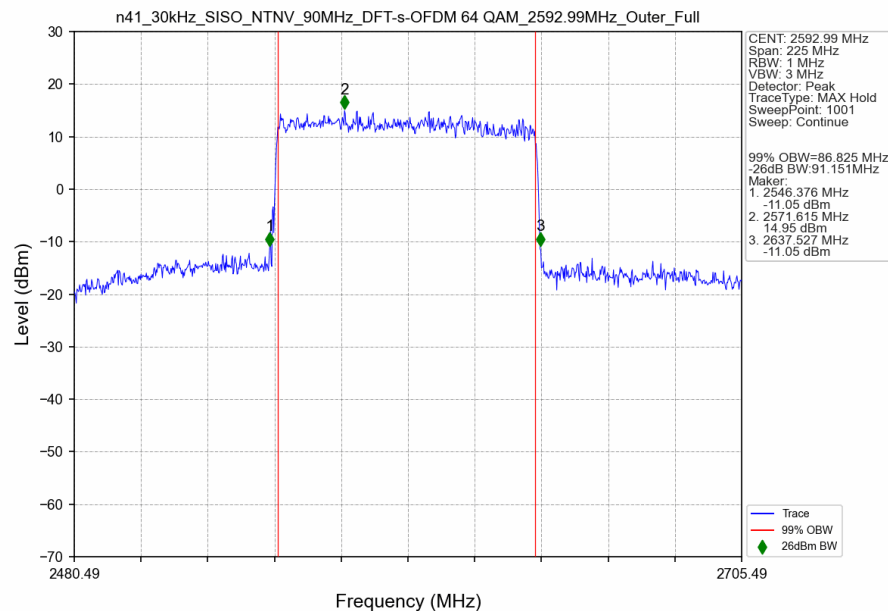




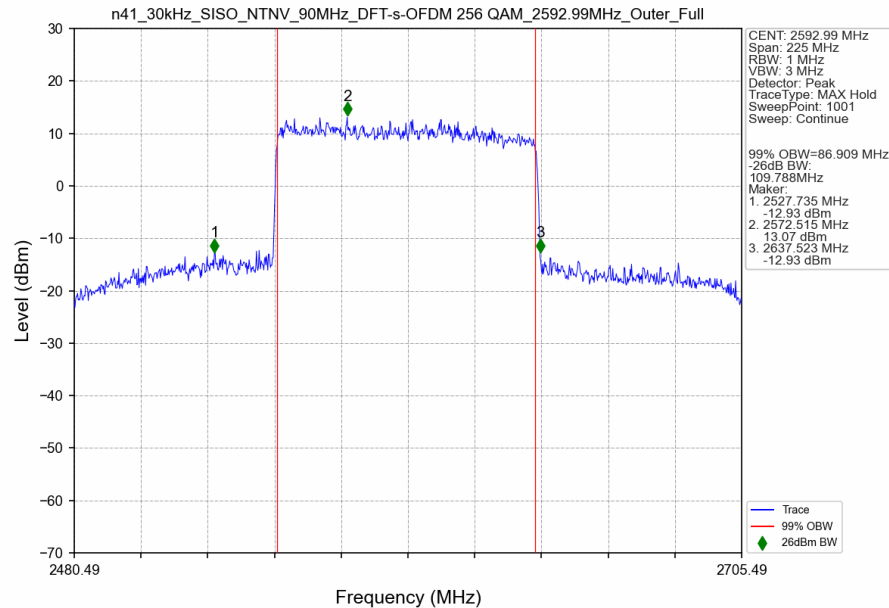
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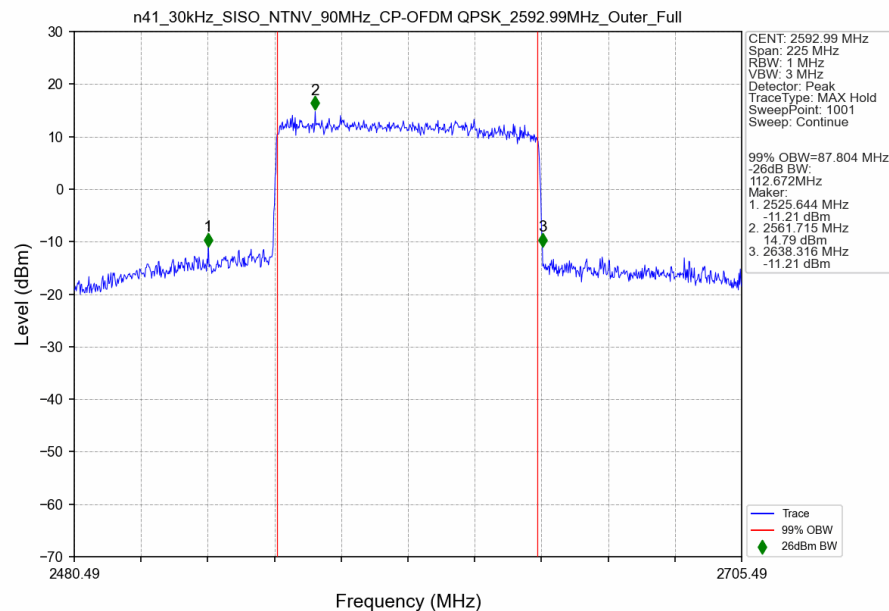
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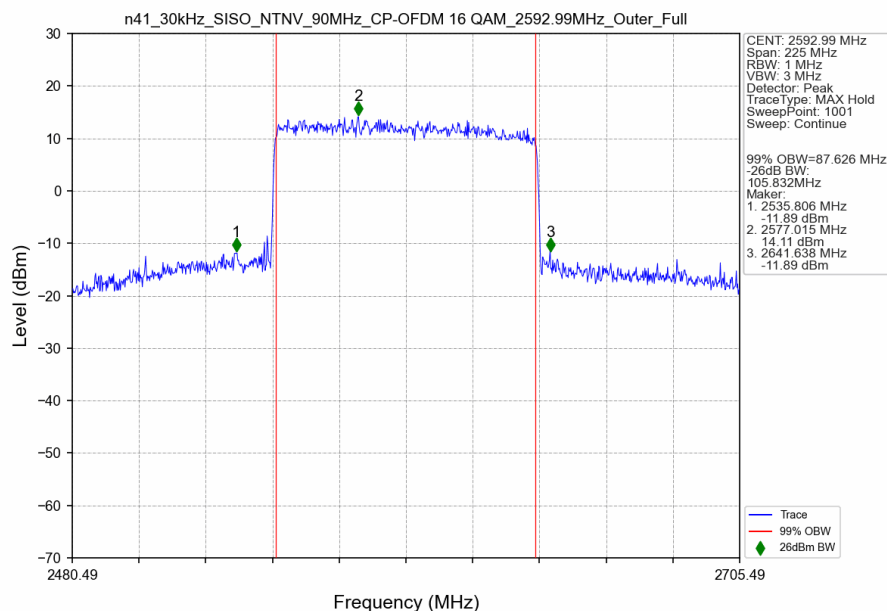
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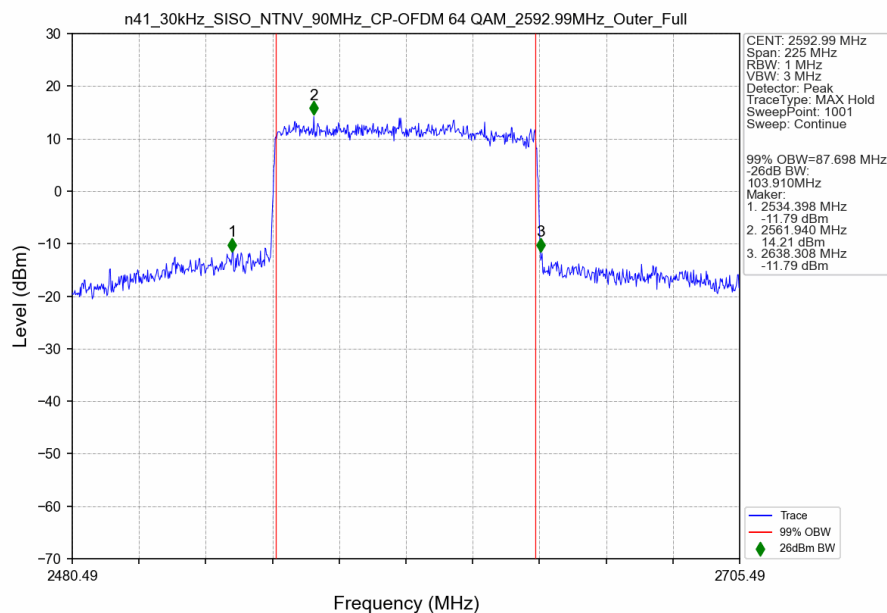
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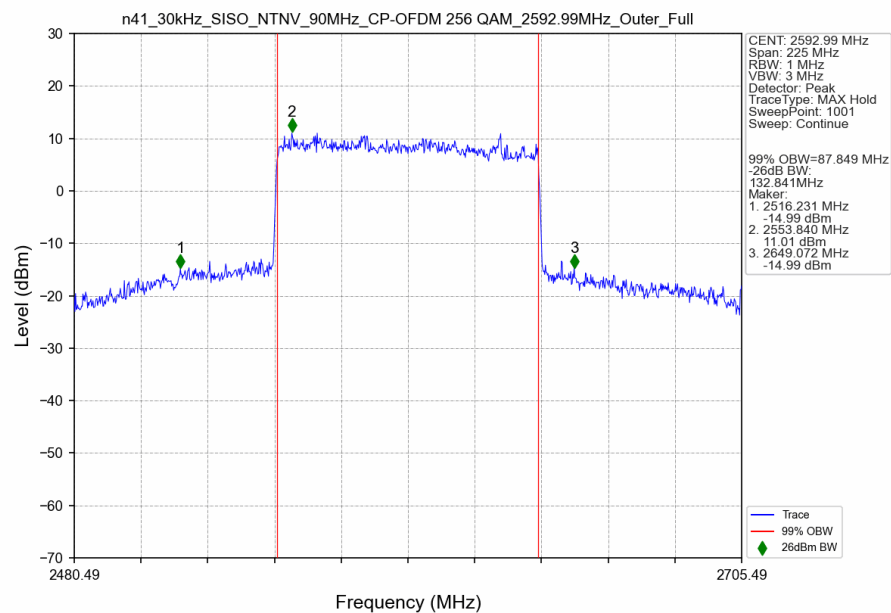
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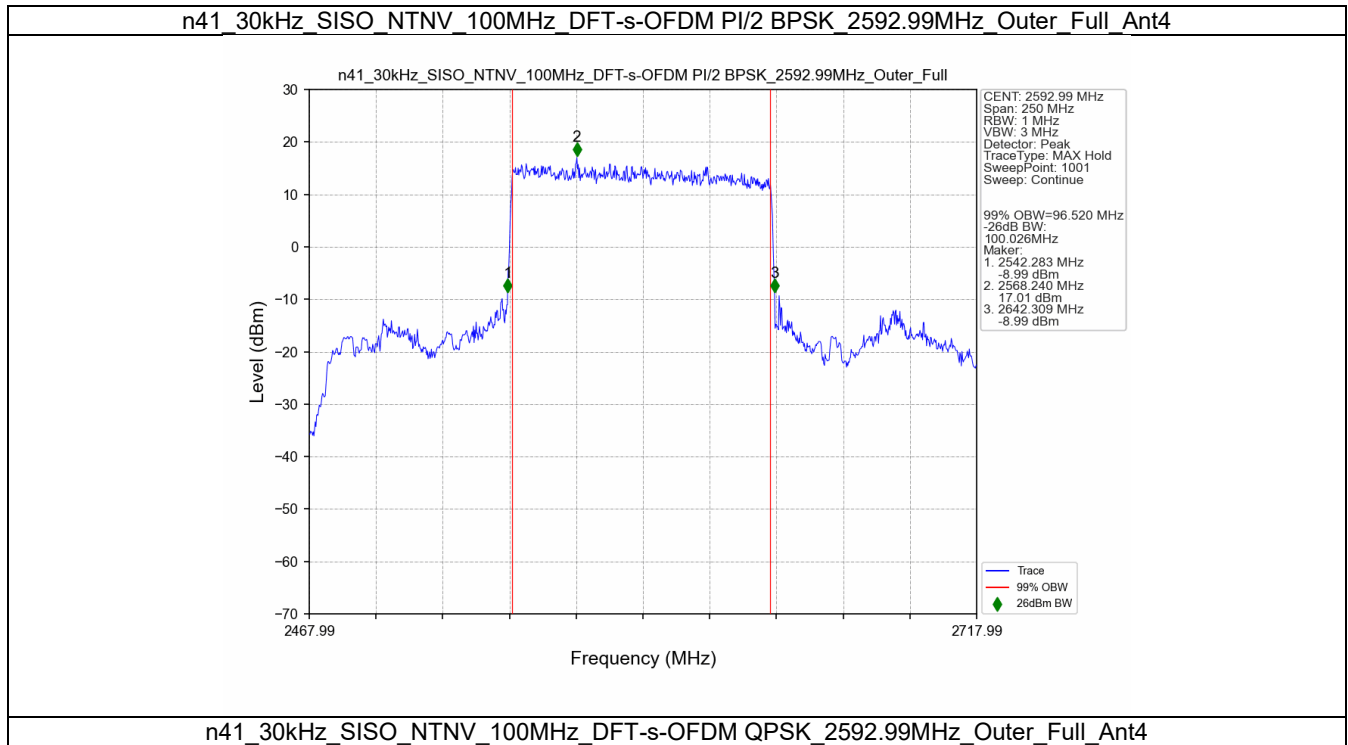
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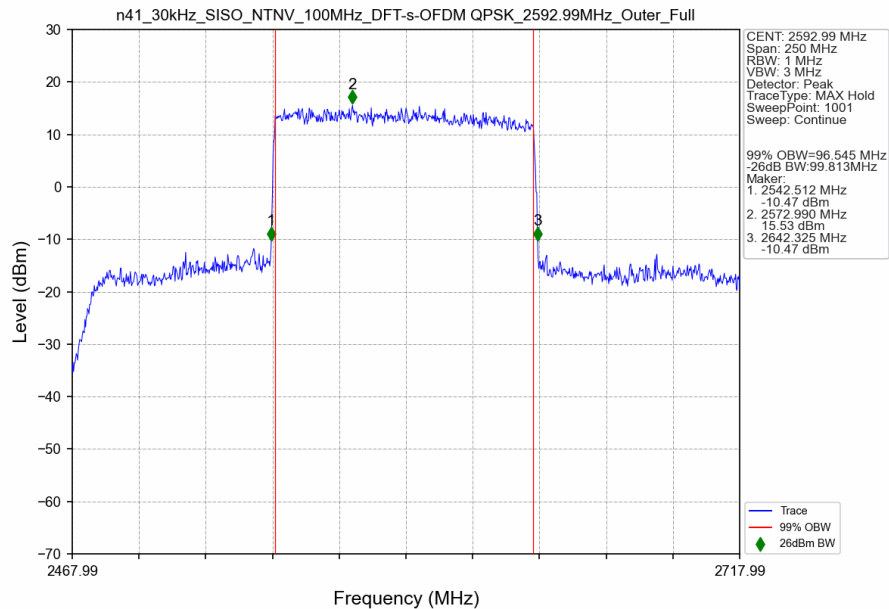


n41_30kHz_SISO_NTNV_90MHz_CP-OFDM 256 QAM_2592.99MHz_Outer_Full_Ant4

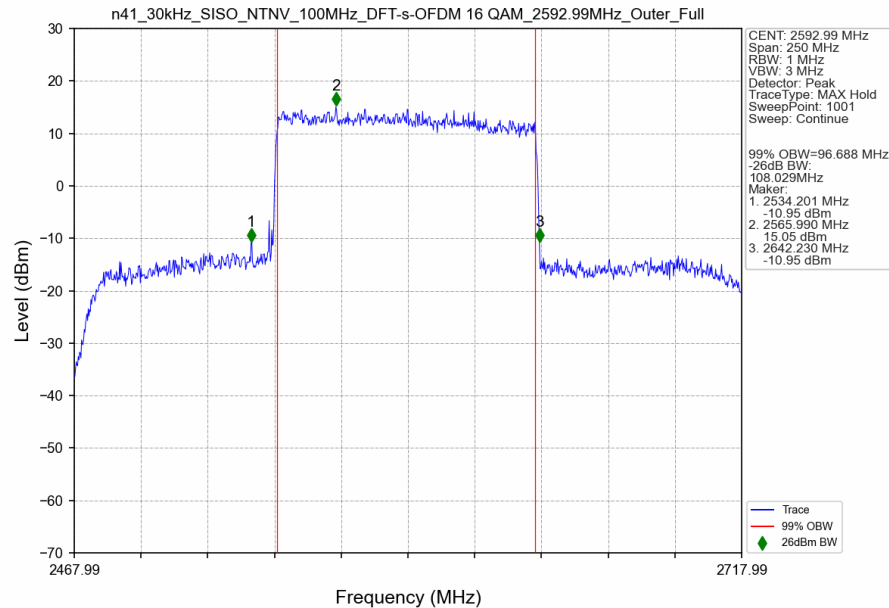


3.2.9 30_S_100M_NTNV

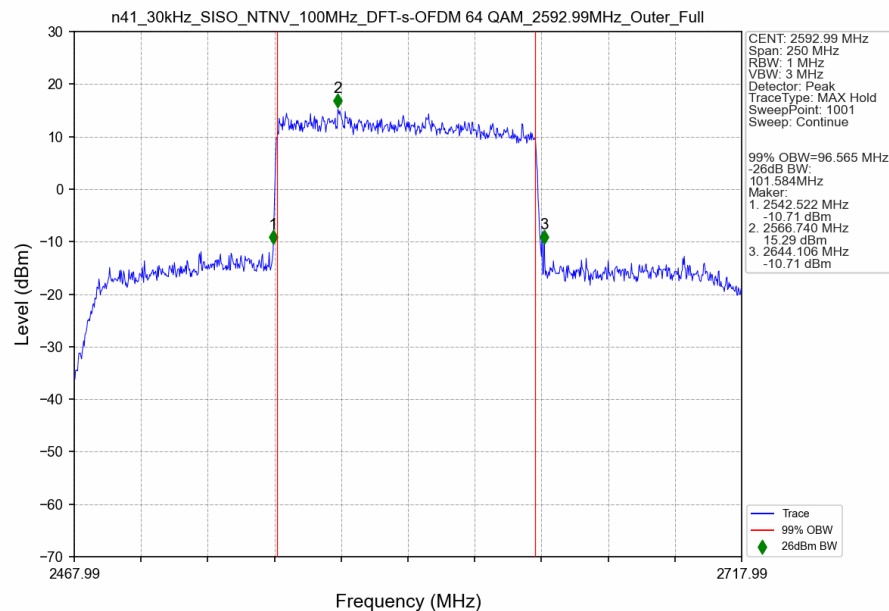




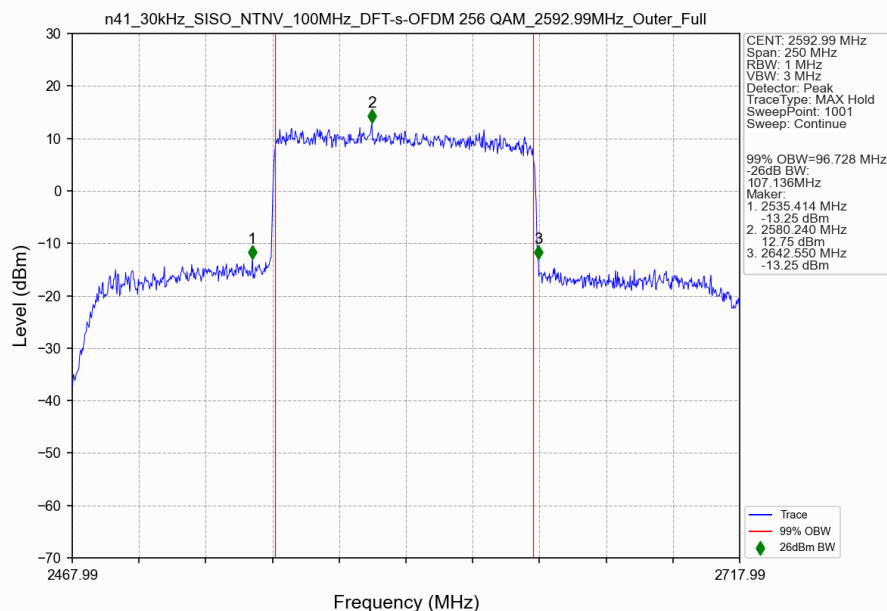
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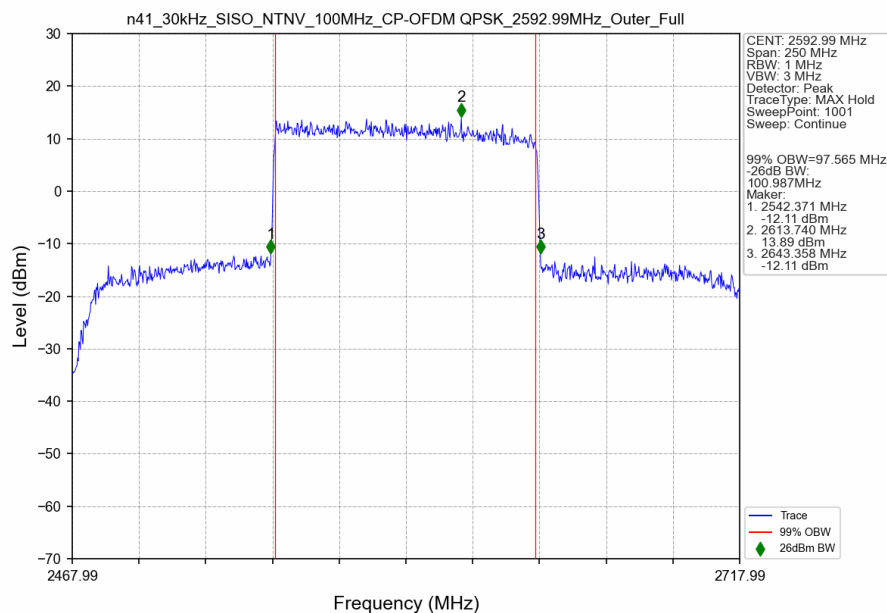
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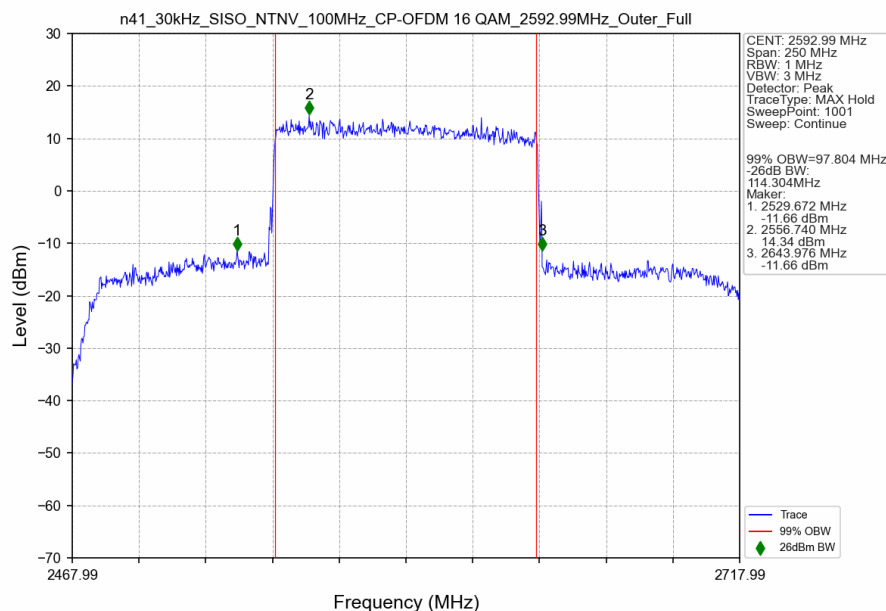
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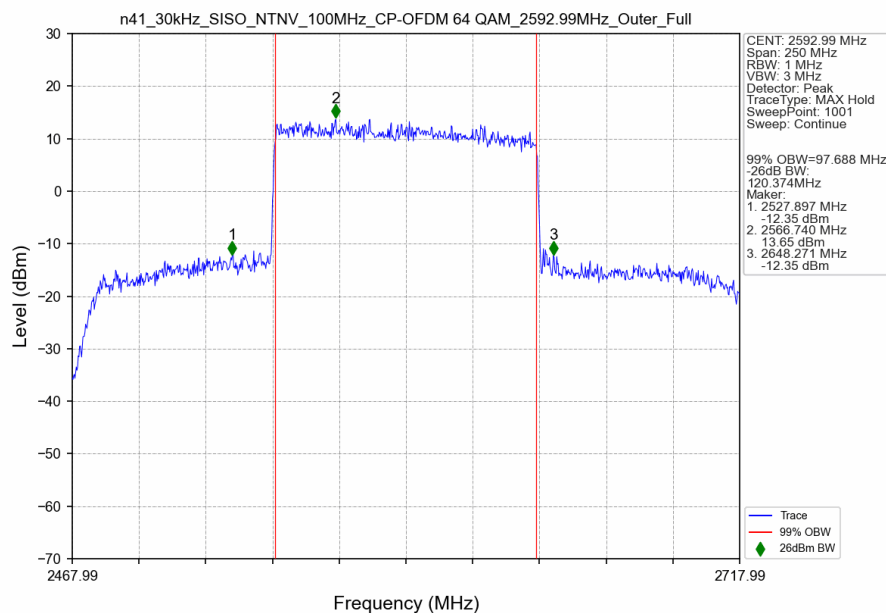
n41_30kHz_SISO_NTNV_100MHz_CP-OFDM_QPSK_2592.99MHz_Outer_Full_Ant4



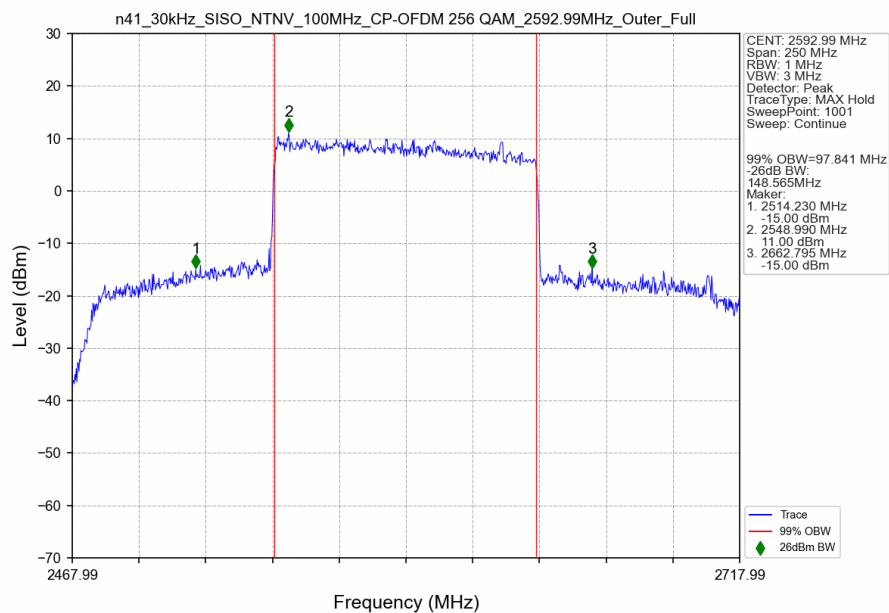
n41_30kHz_SISO_NTNV_100MHz_CP-OFDM 16 QAM_2592.99MHz_Outer_Full_Ant4



n41_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_2592.99MHz_Outer_Full_Ant4



n41_30kHz_SISO_NTNV_100MHz_CP-OFDM_256_QAM_2592.99MHz_Outer_Full_Ant4





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4. Peak-Average Ratio

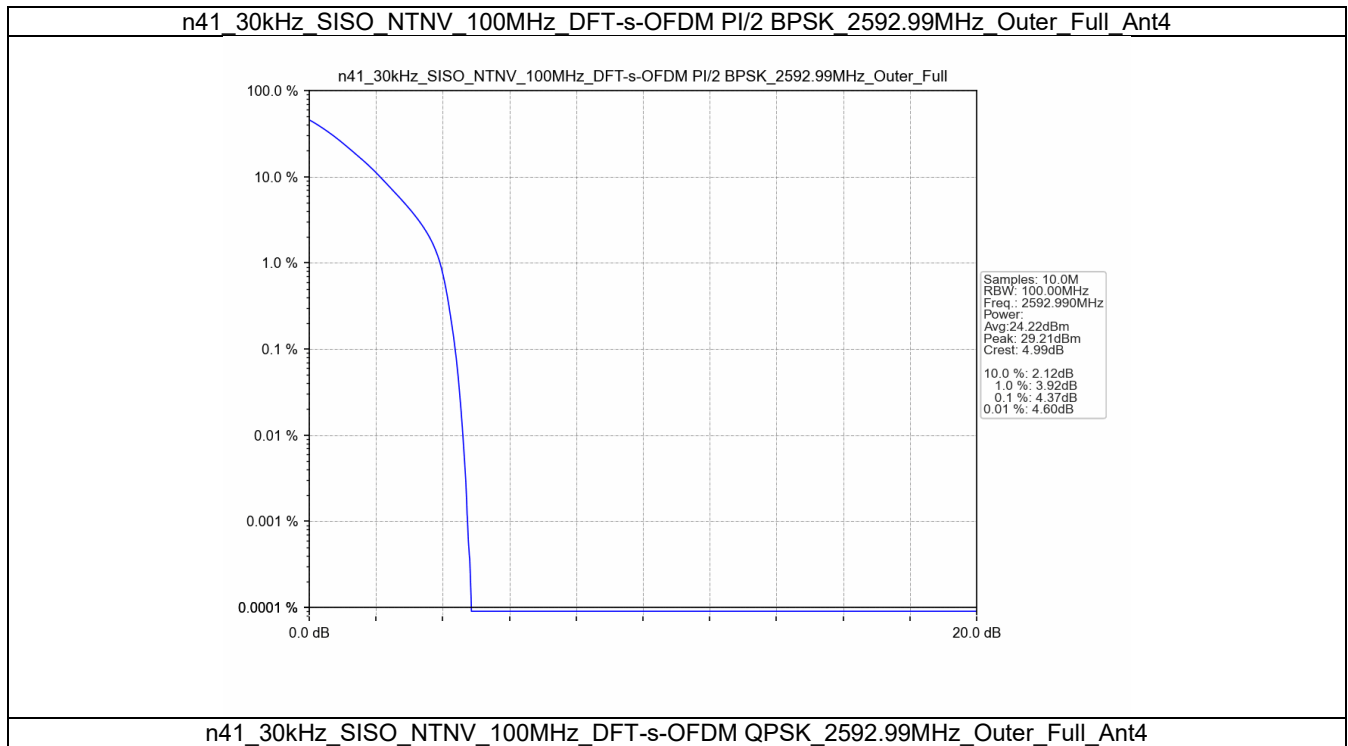
4.1 Test Result

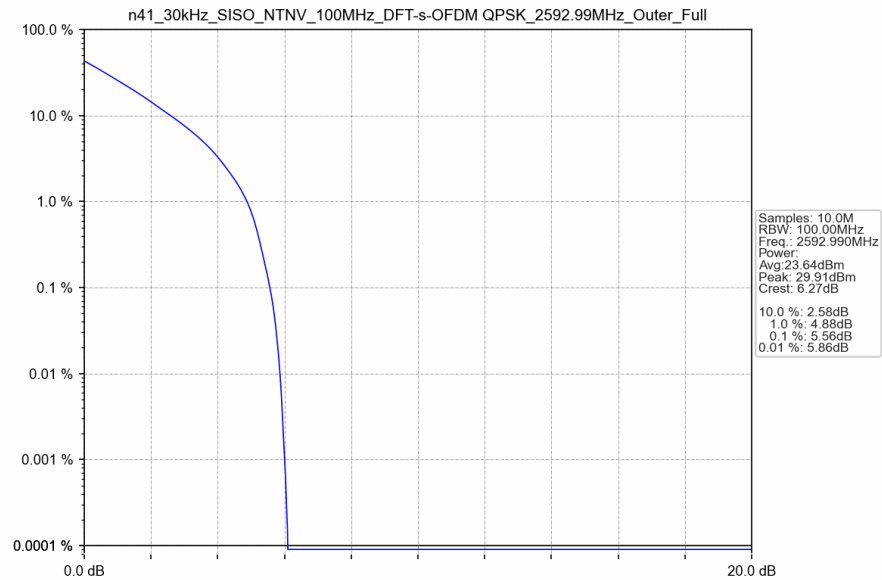
4.1.1 30_S_100M_NTNV

5G NR n41 SCS=30kHz SISO 100MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant4	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2592.99	Outer_Full	4.37	/	/	<=13	Pass
DFT-s-OFDM QPSK	2592.99	Outer_Full	5.56	/	/	<=13	Pass
CP-OFDM QPSK	2592.99	Outer_Full	7.93	/	/	<=13	Pass

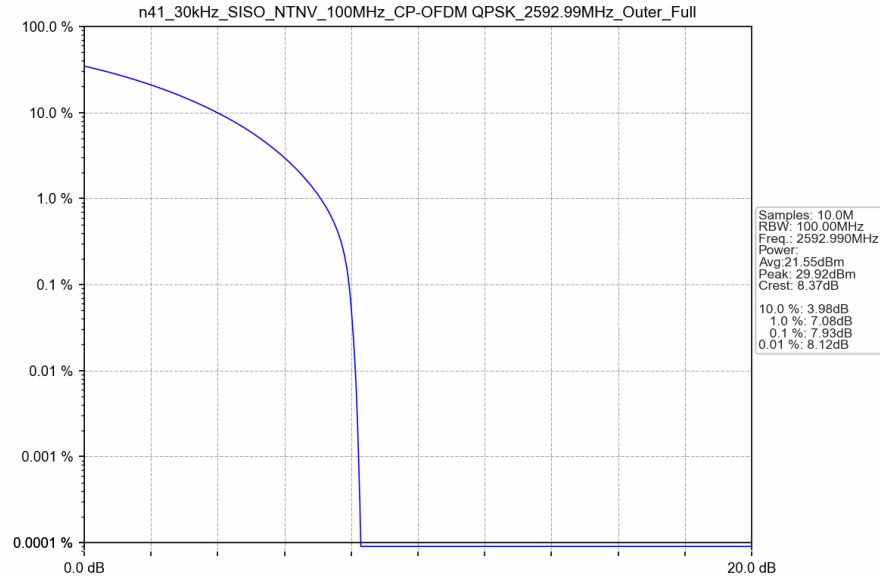
4.2 Test Graph

4.2.1 30_S_100M_NTNV





n41_30kHz_SISO_NTNV_100MHz_CP-OFDM_QPSK_2592.99MHz_Outer_Full_Ant4



5. Spurious Emission

5.1 Test Result

5.1.1 30_S_20M_NTNV

5G NR n41 SCS=30kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant4	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2506.02	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	2592.99	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	2679.99	Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	2506.02	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	2592.99	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	2679.99	Outer_Full	Refer To Test Graph				Pass
CP-OFDM QPSK	2506.02	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	2592.99	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	2679.99	Outer_Full	Refer To Test Graph				Pass

5.1.2 30_S_60M_NTNV

5G NR n41 SCS=30kHz SISO 60MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant4	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2526	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	2592.99	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	2659.98	Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	2526	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	2592.99	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	2659.98	Outer_Full	Refer To Test Graph				Pass
CP-OFDM QPSK	2526	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	2592.99	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	2659.98	Outer_Full	Refer To Test Graph				Pass



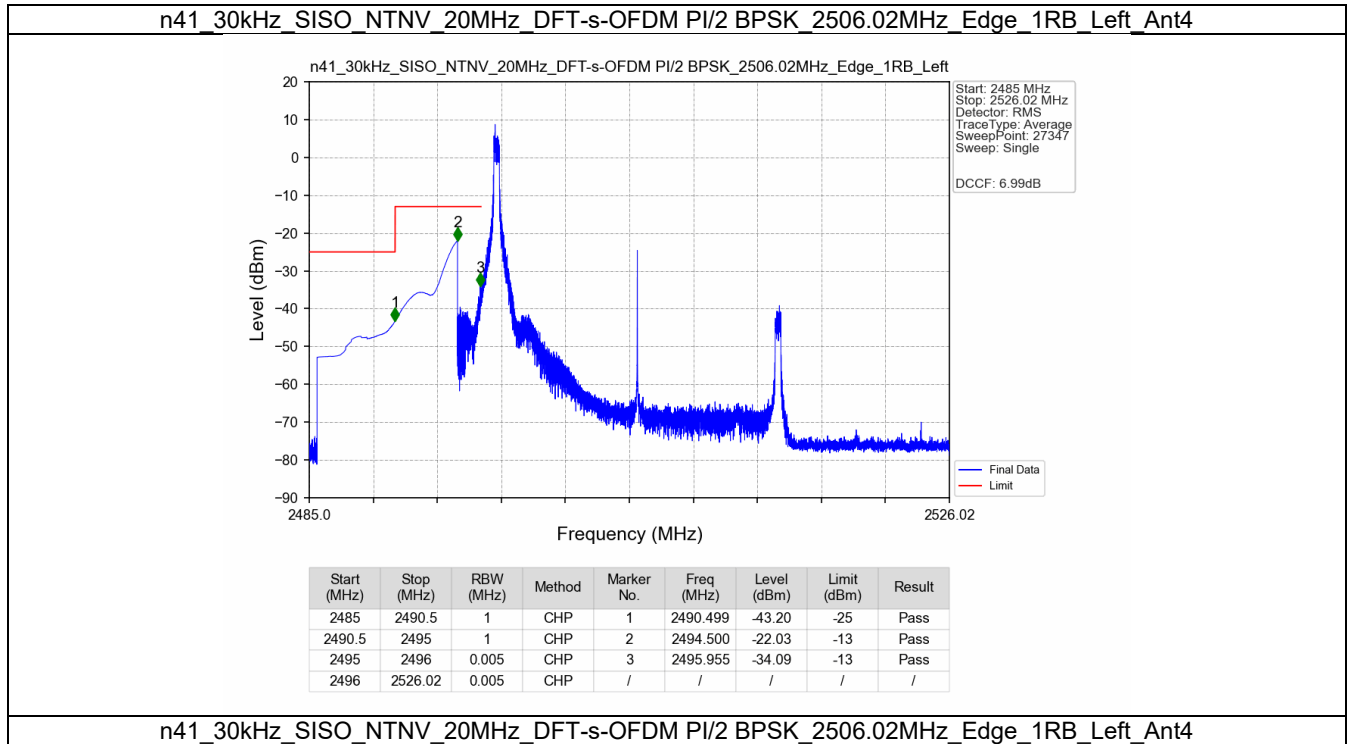
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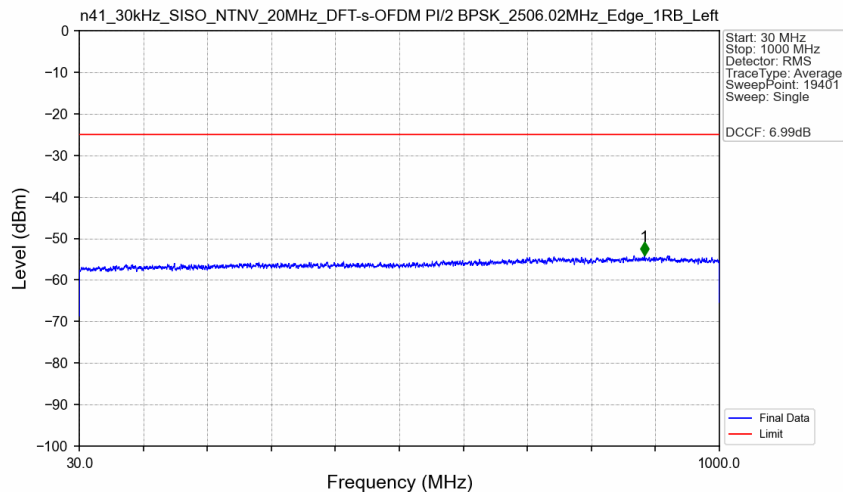
5.1.3 30_S_100M_NTNV

5G NR n41 SCS=30kHz SISO 100MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant4	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2546.01	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	2592.99	Edge_1RB_Left	Refer To Test Graph				Pass
		2640	Edge_1RB_Right	Refer To Test Graph			
			Outer_Full	Refer To Test Graph			
	DFT-s-OFDM QPSK	2546.01	Edge_1RB_Left	Refer To Test Graph			
Outer_Full			Refer To Test Graph				Pass
2592.99		Edge_1RB_Left	Refer To Test Graph				Pass
		2640	Edge_1RB_Right	Refer To Test Graph			
			Outer_Full	Refer To Test Graph			
CP-OFDM QPSK		2546.01	Edge_1RB_Left	Refer To Test Graph			
	Outer_Full		Refer To Test Graph				Pass
	2592.99	Edge_1RB_Left	Refer To Test Graph				Pass
		2640	Edge_1RB_Right	Refer To Test Graph			
			Outer_Full	Refer To Test Graph			

5.2 Test Graph

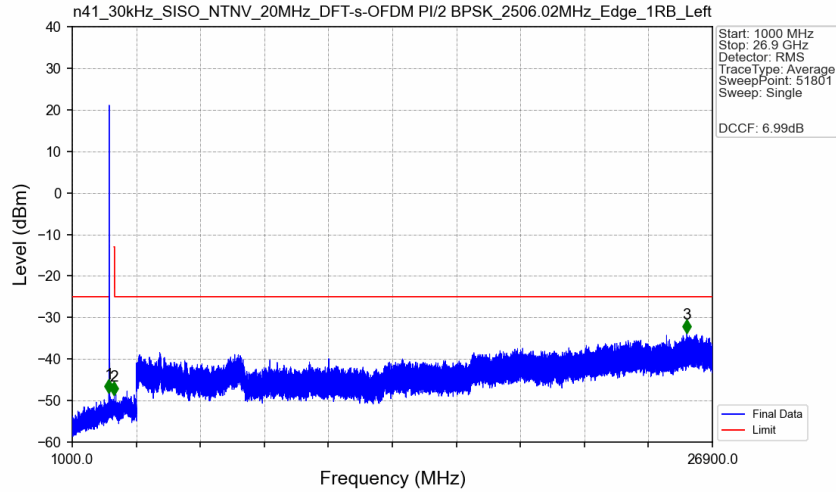
5.2.1 30_S_20M_NTNV





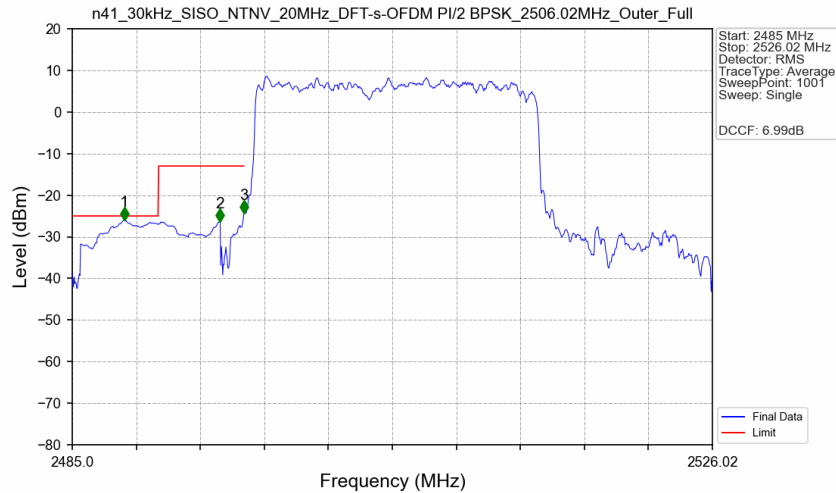
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	886.550	-53.99	-25	Pass

n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2506.02MHz_Edge_1RB_Left_Ant4



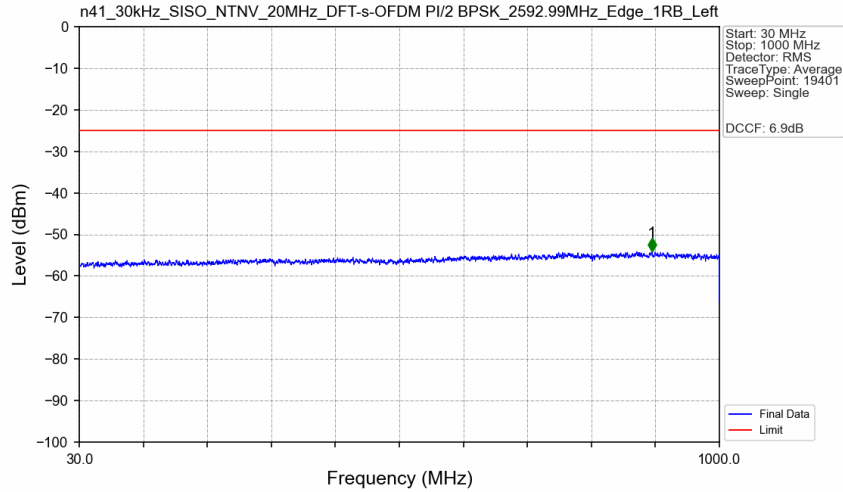
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490.5	1	/	1	2479.500	-48.17	-25	Pass
2490.5	2695	1	/	/	/	/	/	/
2695	2710	1	/	2	2699.000	-48.73	-13	Pass
2710	26900	1	/	3	25864.000	-33.78	-25	Pass

n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2506.02MHz_Outer_Full_Ant4



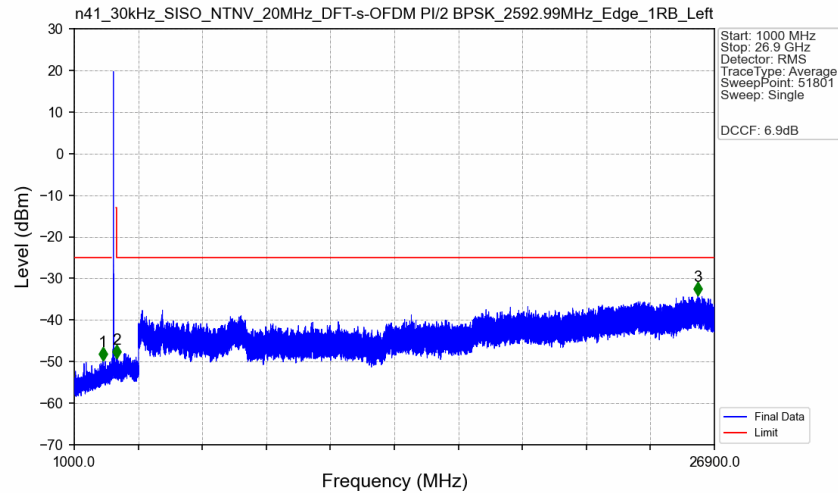
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2488.323	-26.02	-25	Pass
2490.5	2495	1	CHP	2	2494.476	-26.36	-13	Pass
2495	2496	0.2	CHP	3	2495.993	-24.46	-13	Pass
2496	2526.02	0.2	CHP	/	/	/	/	/

n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2592.99MHz_Edge_1RB_Left_Ant4



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	897.950	-53.98	-25	Pass

n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2592.99MHz_Edge_1RB_Left_Ant4



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490.5	1	/	1	2150.000	-49.65	-25	Pass
2490.5	2695	1	/	/	/	/	/	/
2695	2710	1	/	2	2706.500	-49.24	-13	Pass
2710	26900	1	/	3	26232.000	-34.09	-25	Pass