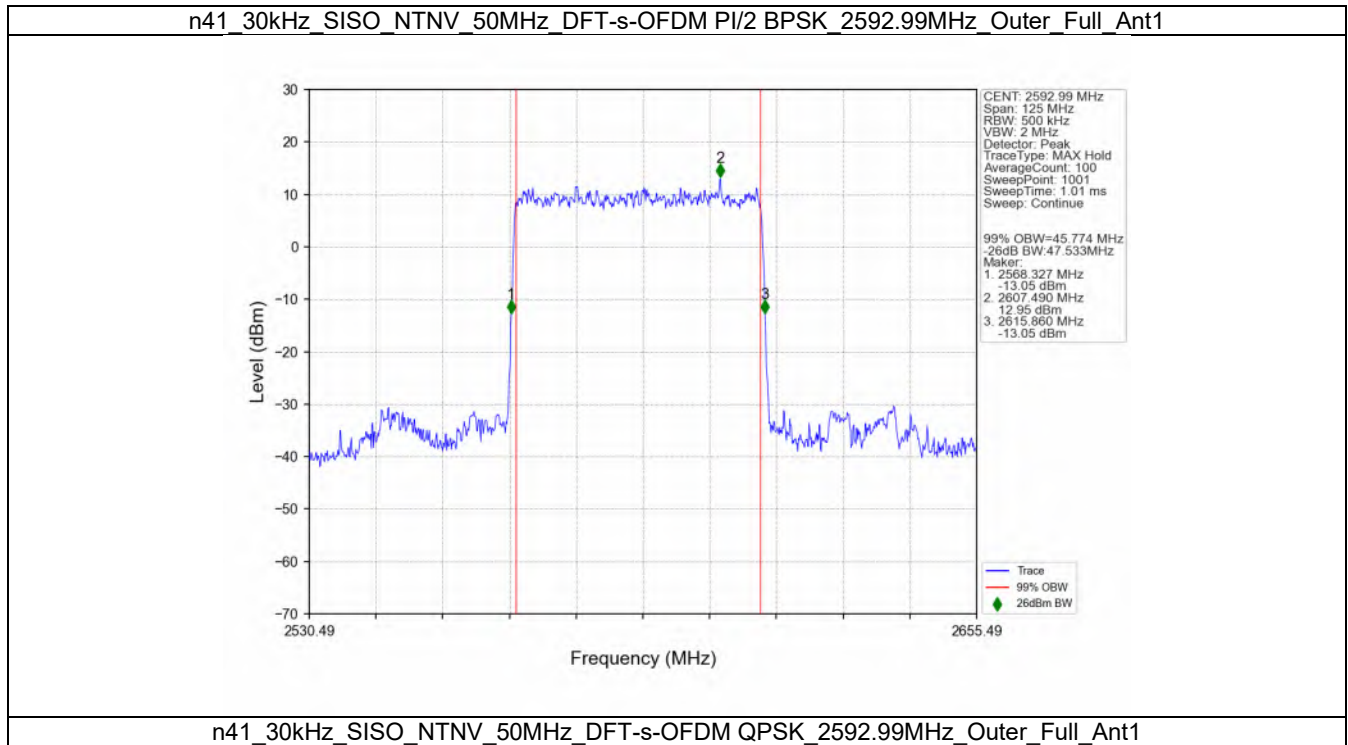
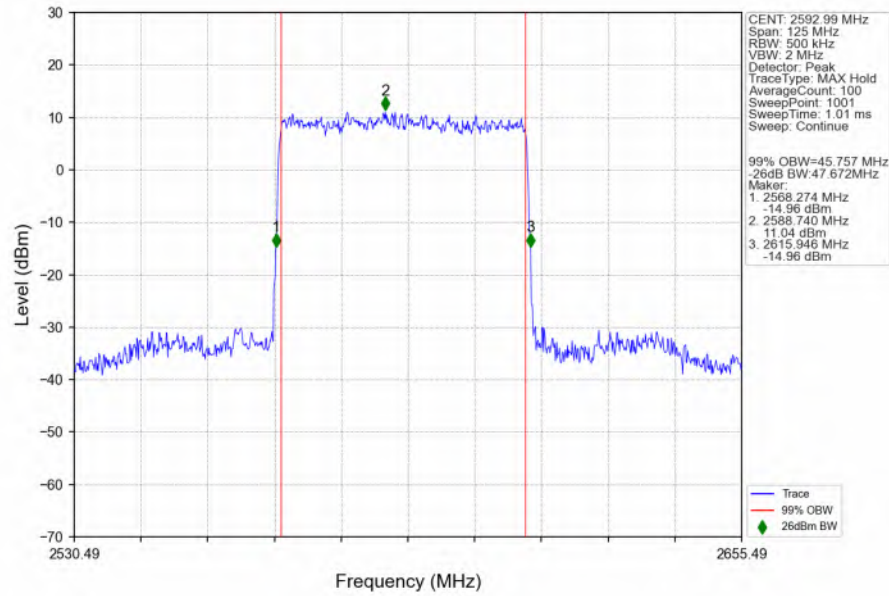
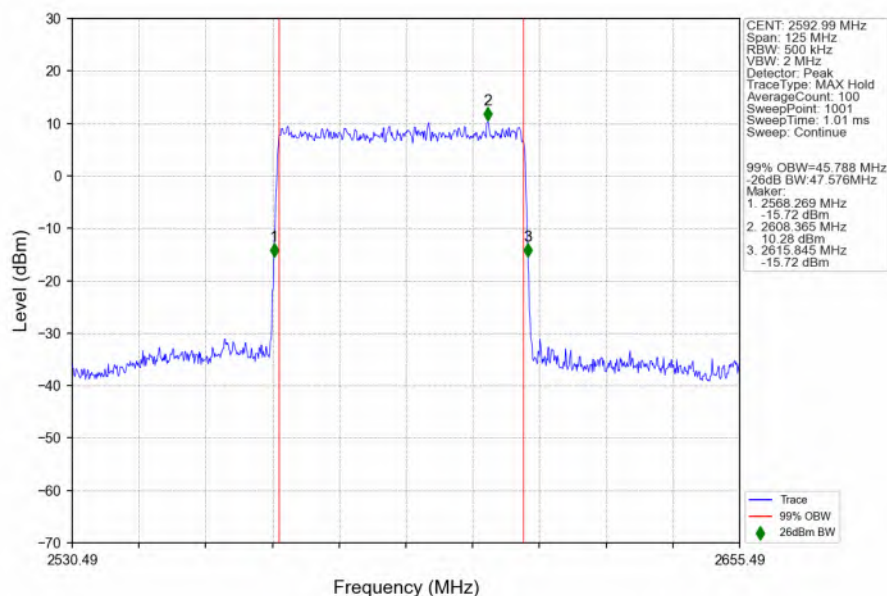


3.2.9 30_S_50M_NTNV

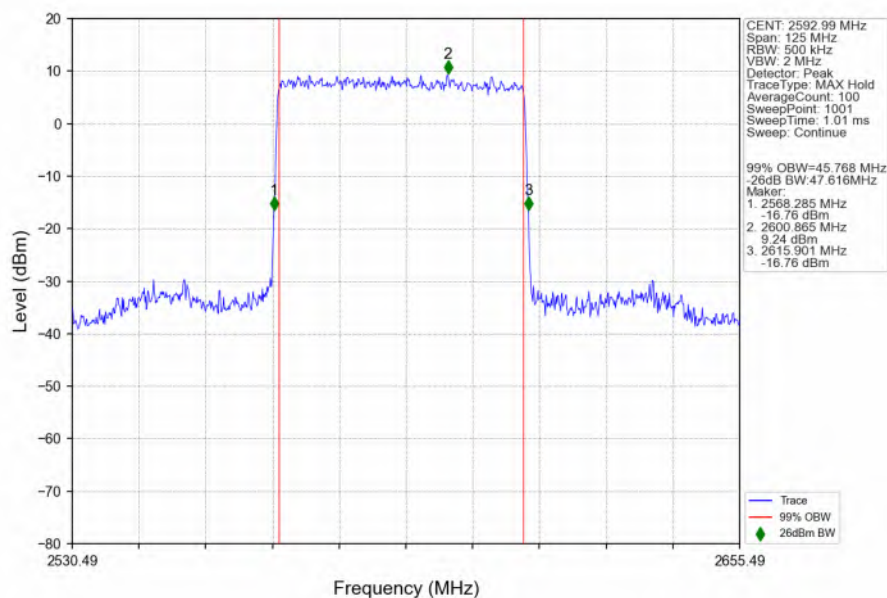




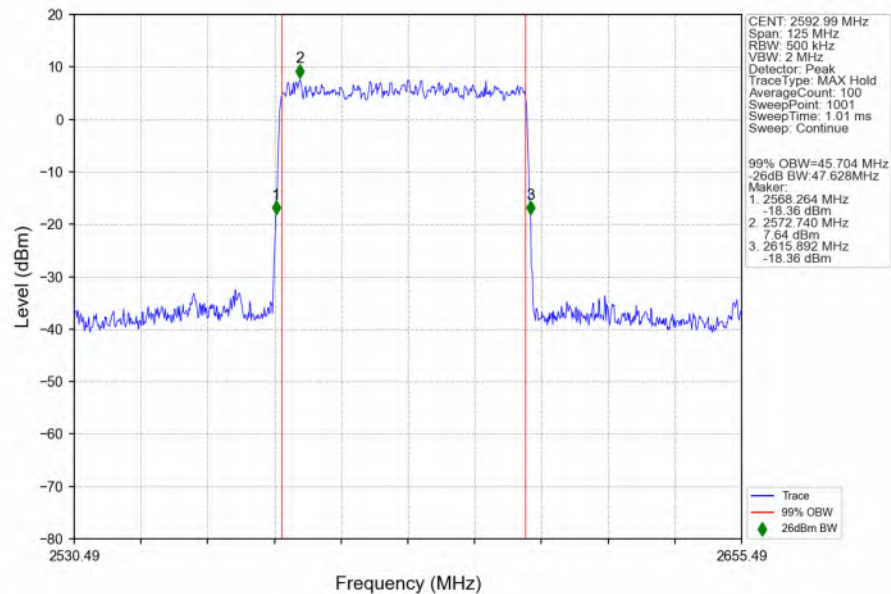
n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 16 QAM_2592.99MHz_Outer_Full_Ant1



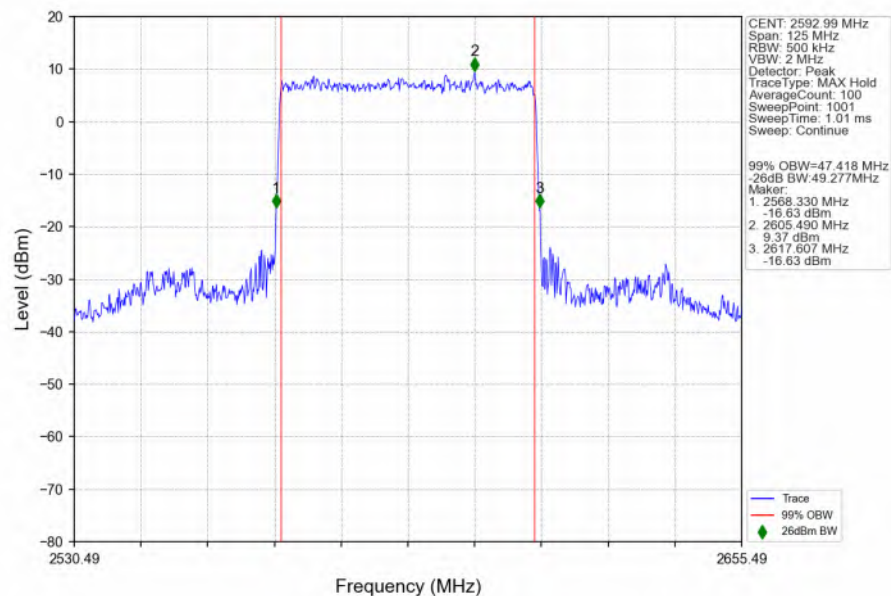
n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_2592.99MHz_Outer_Full_Ant1



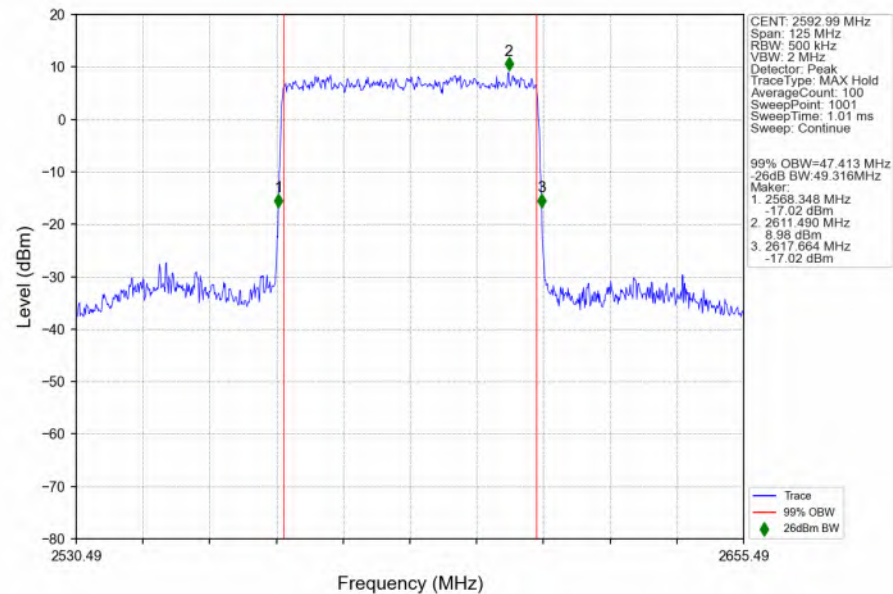
n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 256 QAM 2592.99MHz_Outer_Full_Ant1



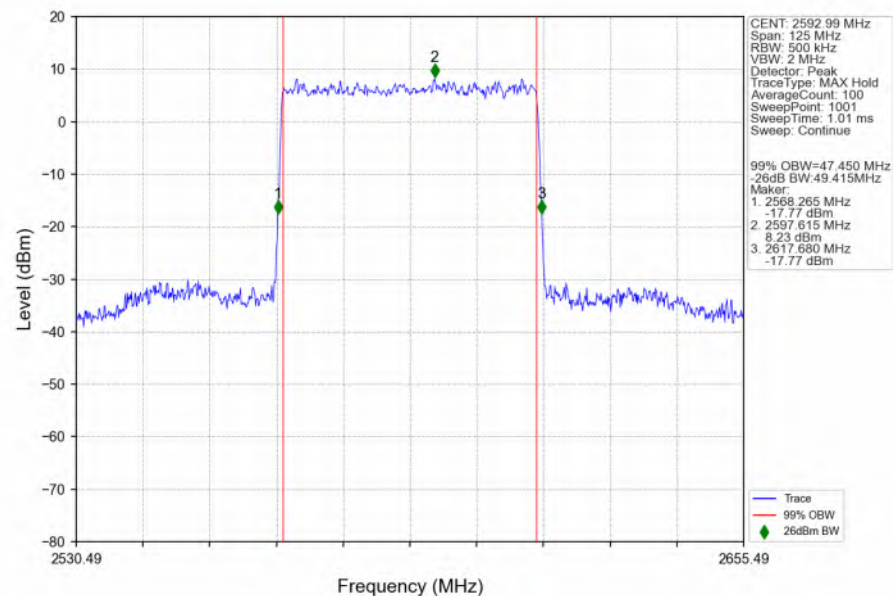
n41_30kHz_SISO_NTNV_50MHz_CP-OFDM QPSK 2592.99MHz_Outer_Full_Ant1



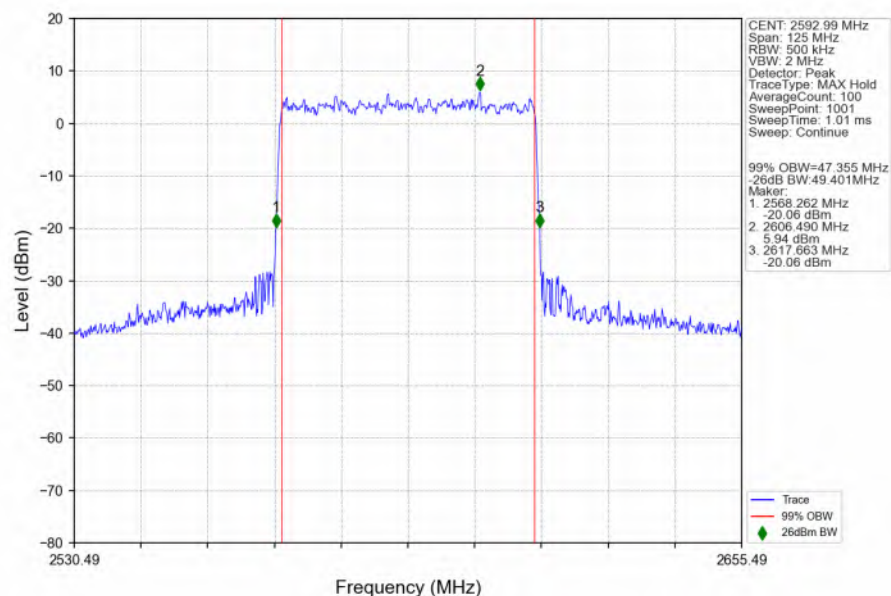
n41_30kHz_SISO_NTNV_50MHz_CP-OFDM 16 QAM_2592.99MHz_Outer_Full_Ant1



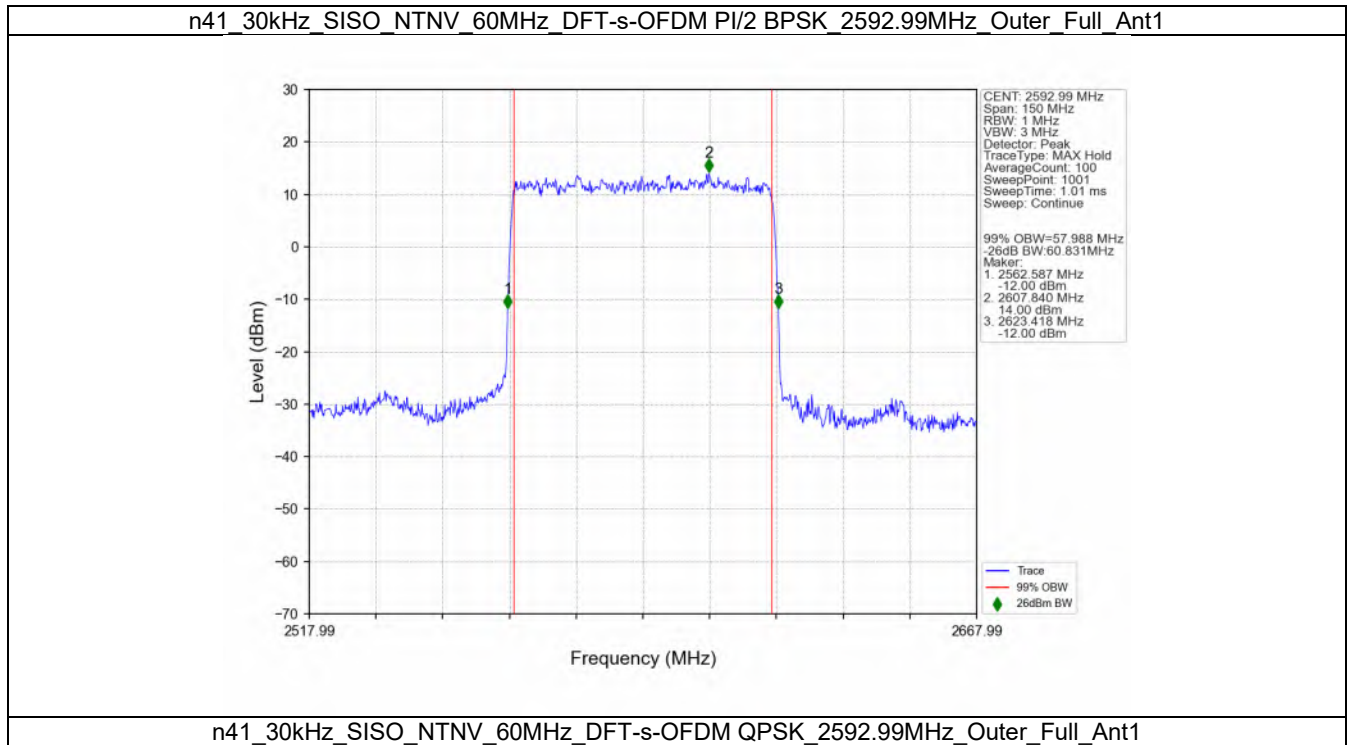
n41_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_2592.99MHz_Outer_Full_Ant1

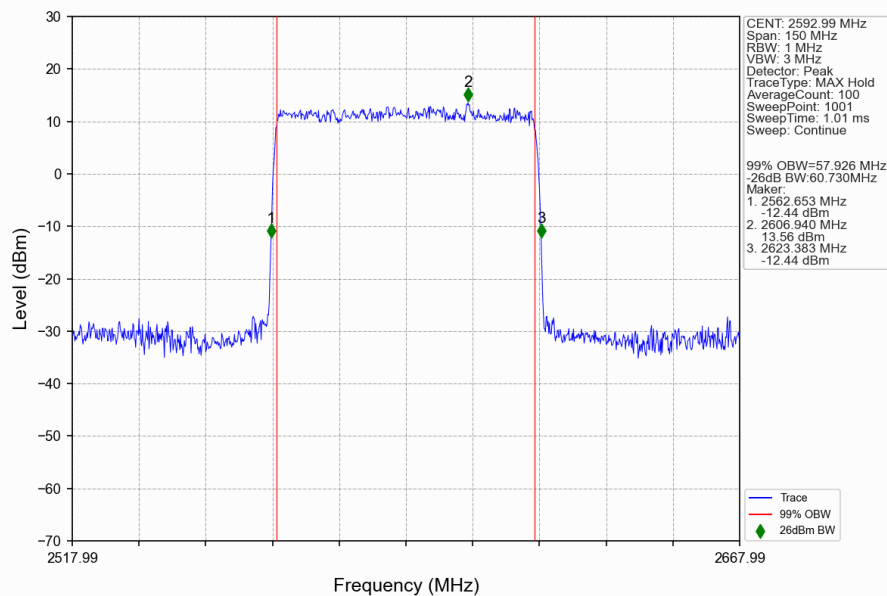


n41_30kHz_SISO_NTNV_50MHz_CP-OFDM 256 QAM 2592.99MHz_Outer_Full_Ant1

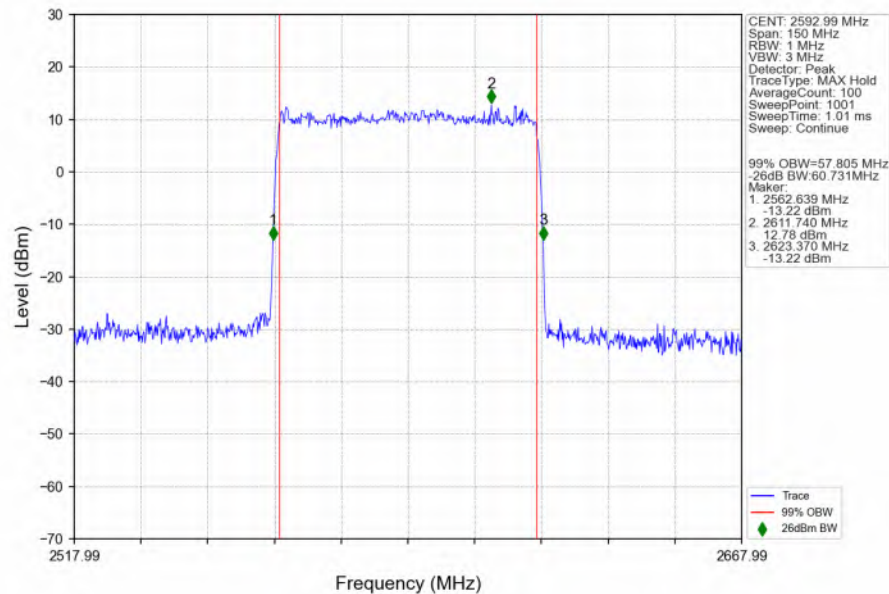


3.2.10 30_S_60M_NTNV

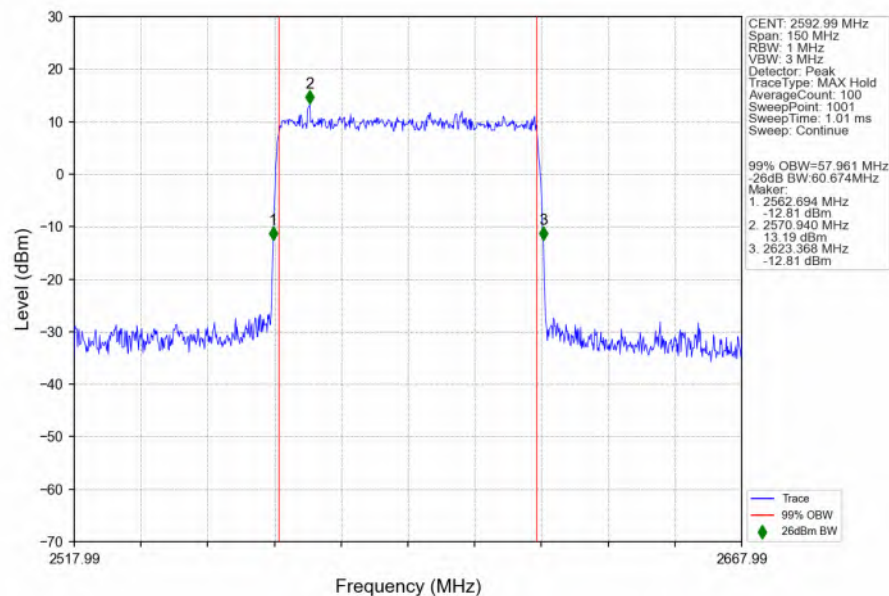




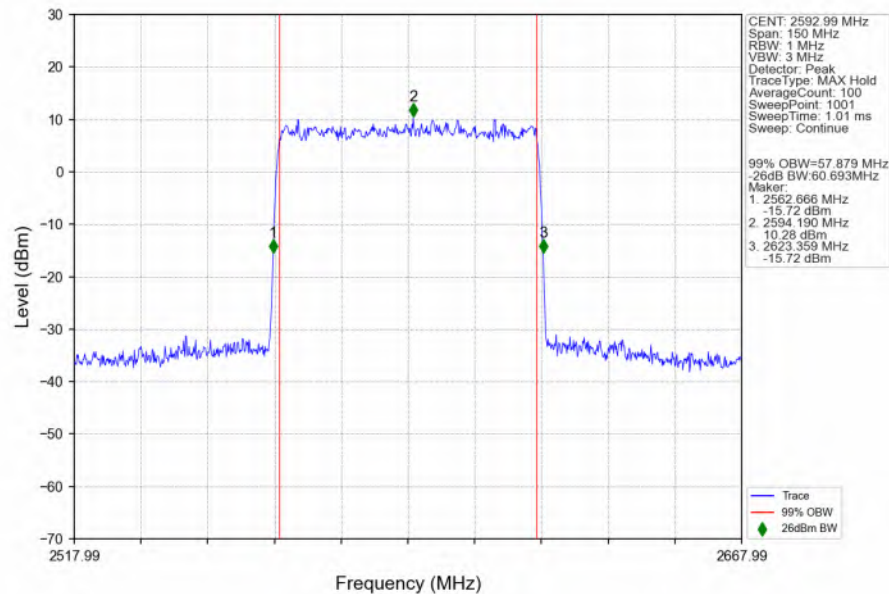
n41_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_16_QAM_2592.99MHz_Outer_Full_Ant1



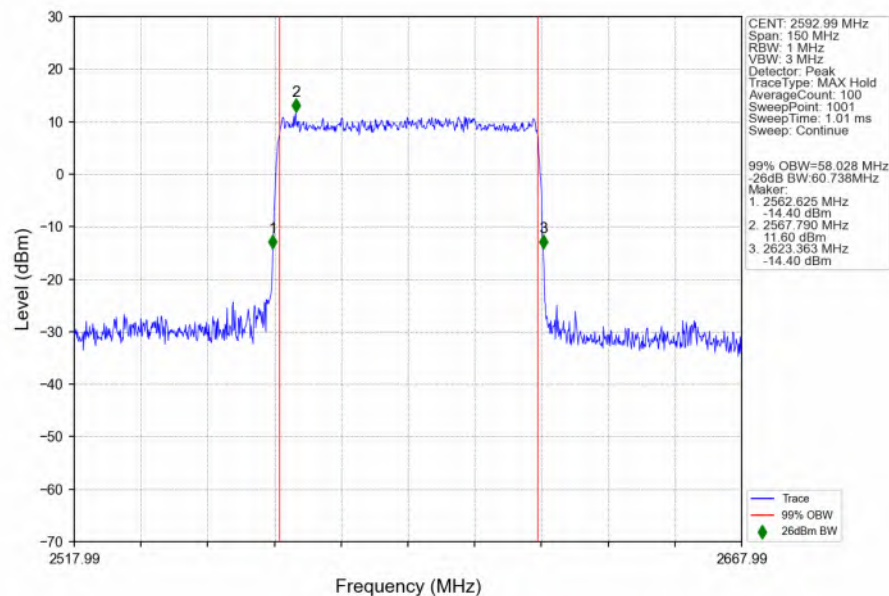
n41_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_64_QAM_2592.99MHz_Outer_Full_Ant1



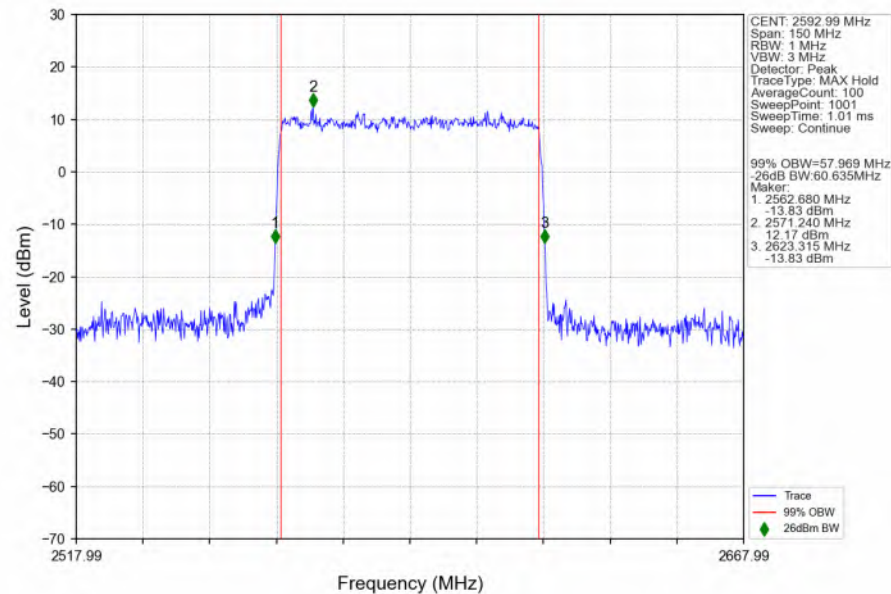
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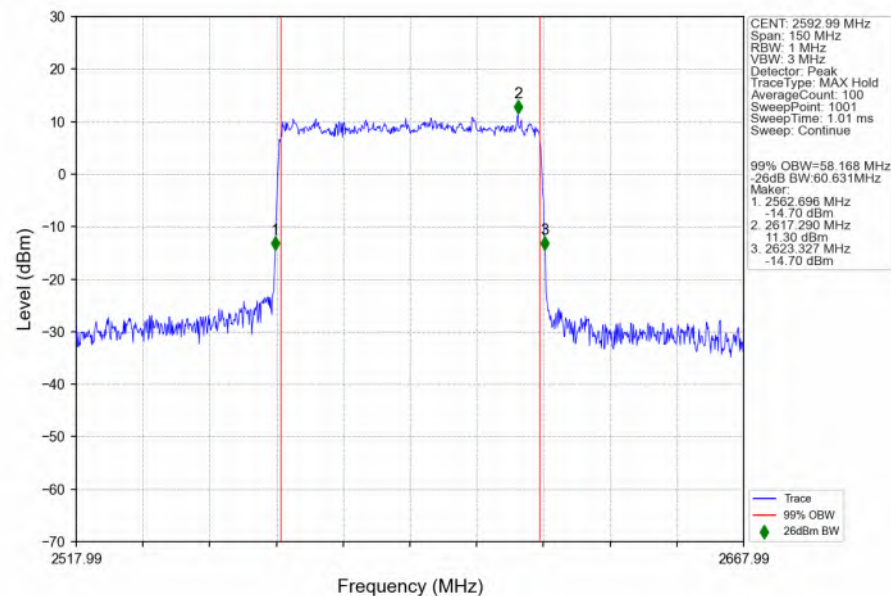
n41_30kHz_SISO_NTNV_60MHz_CP-OFDM QPSK 2592.99MHz_Outer_Full_Ant1



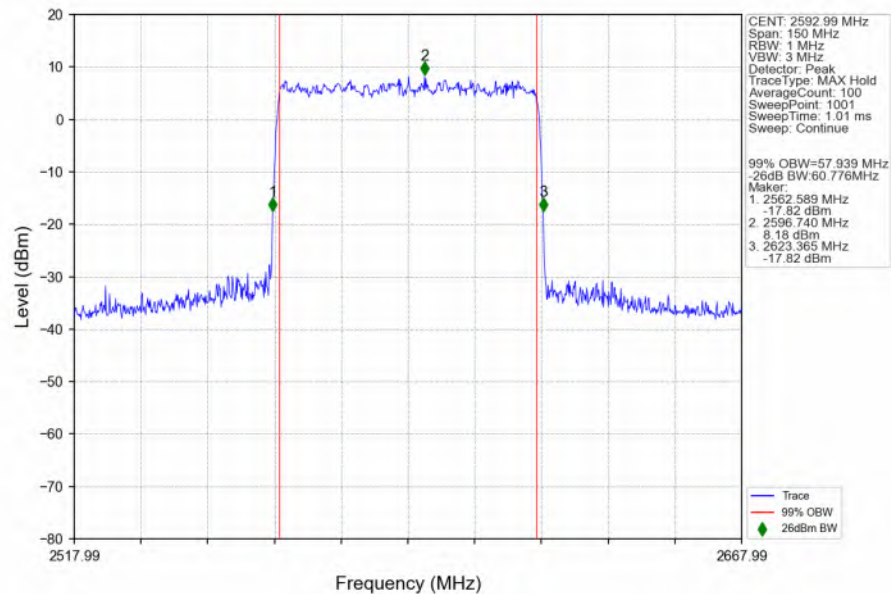
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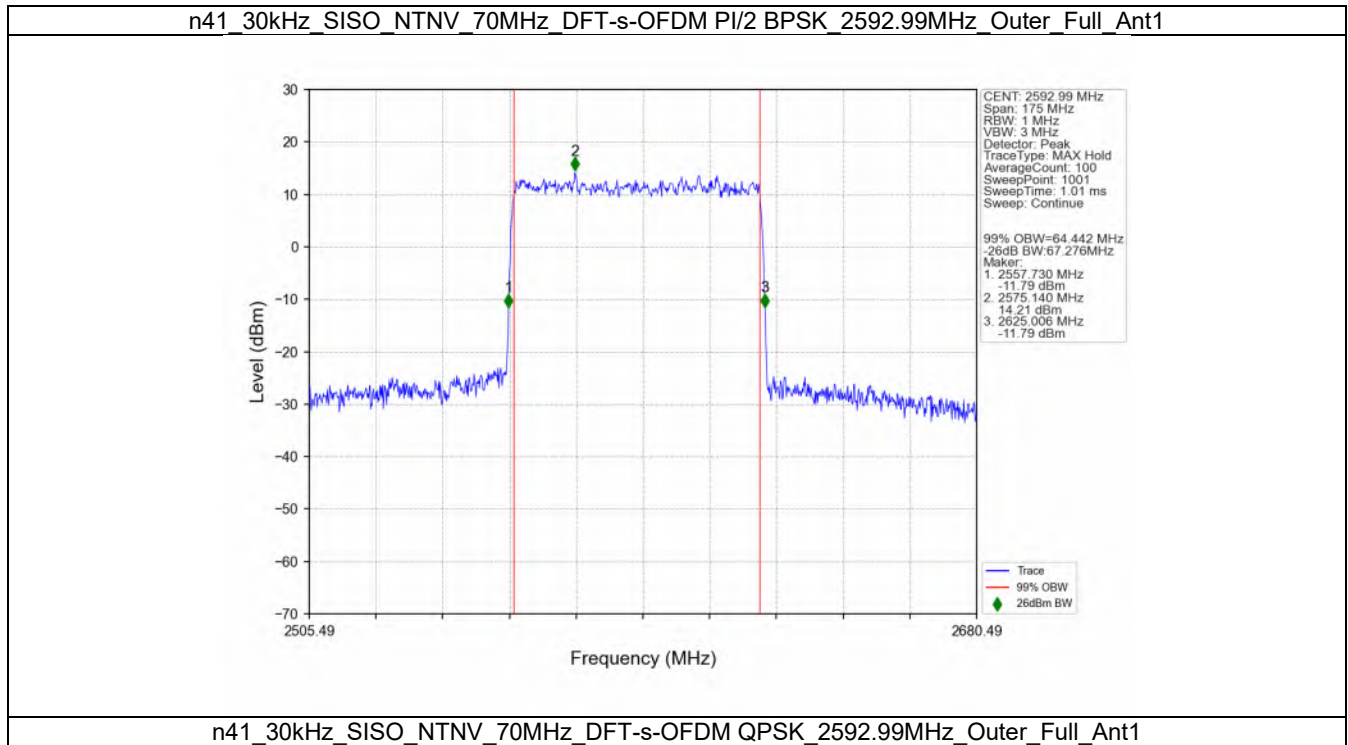
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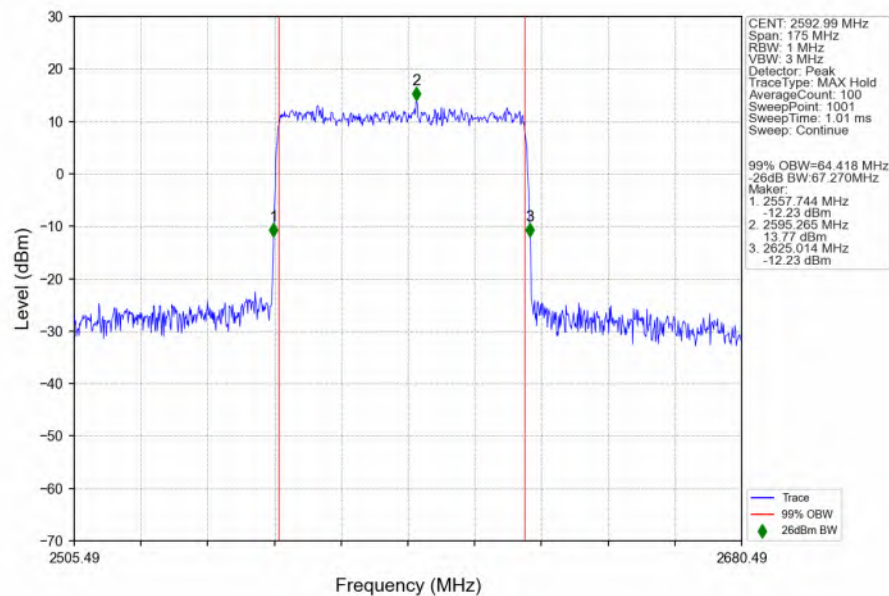


n41_30kHz_SISO_NTNV_60MHz_CP-OFDM 256 QAM 2592.99MHz_Outer_Full_Ant1

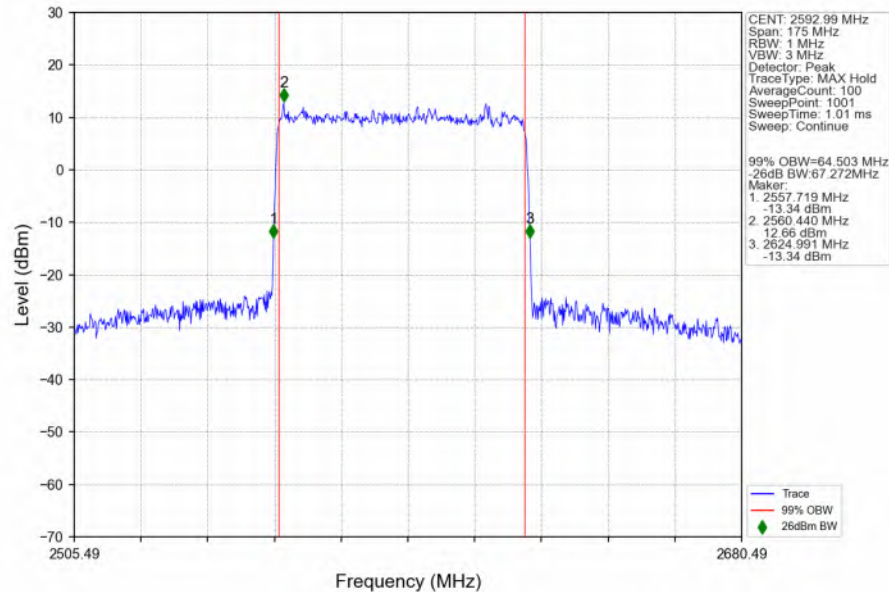


3.2.11 30_S_70M_NTNV

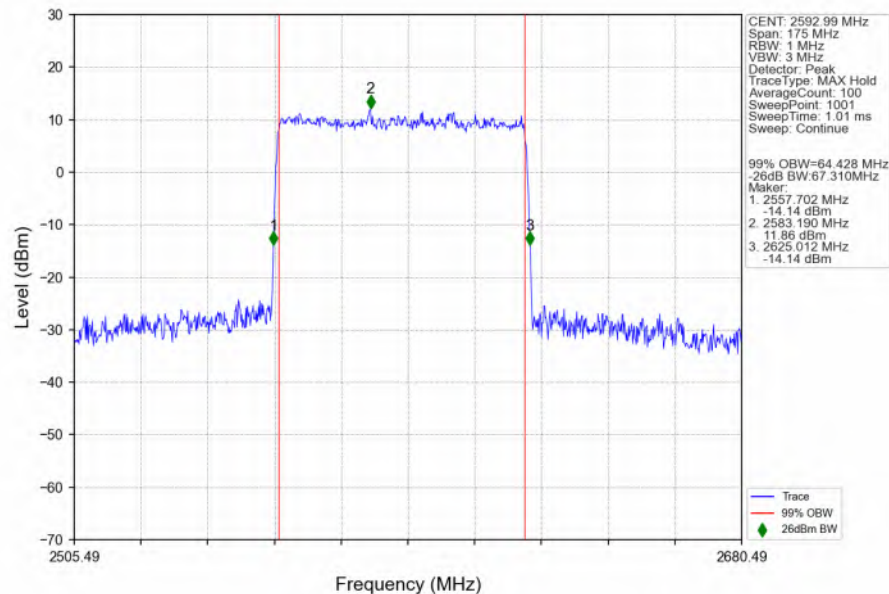




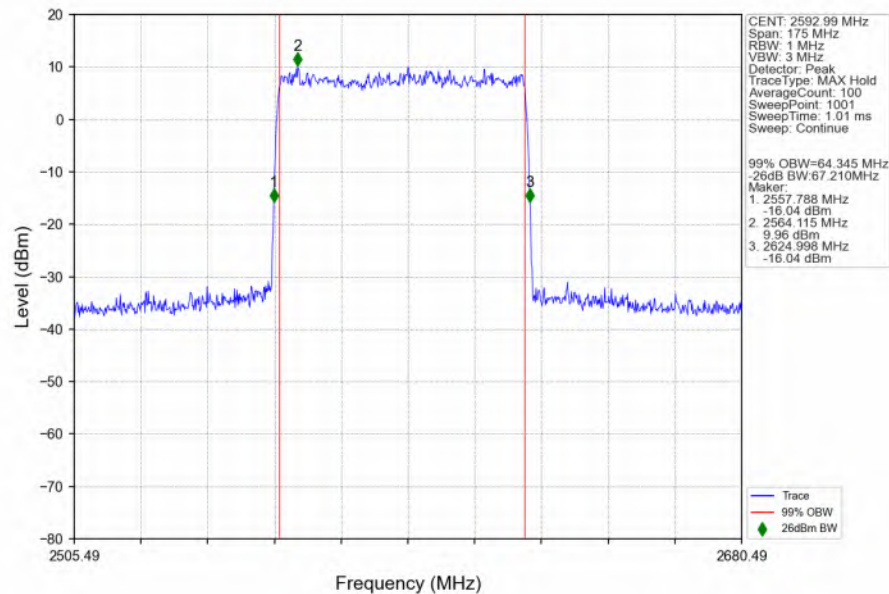
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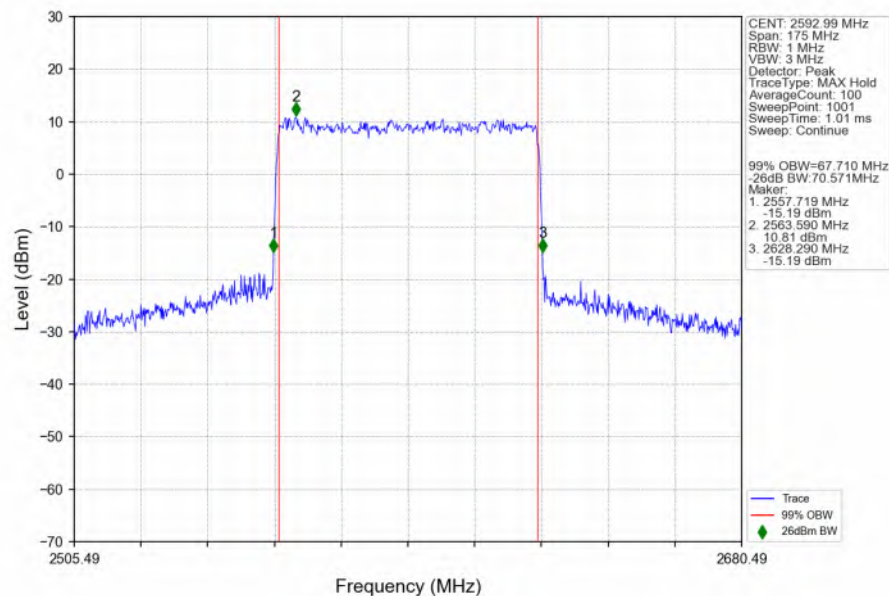
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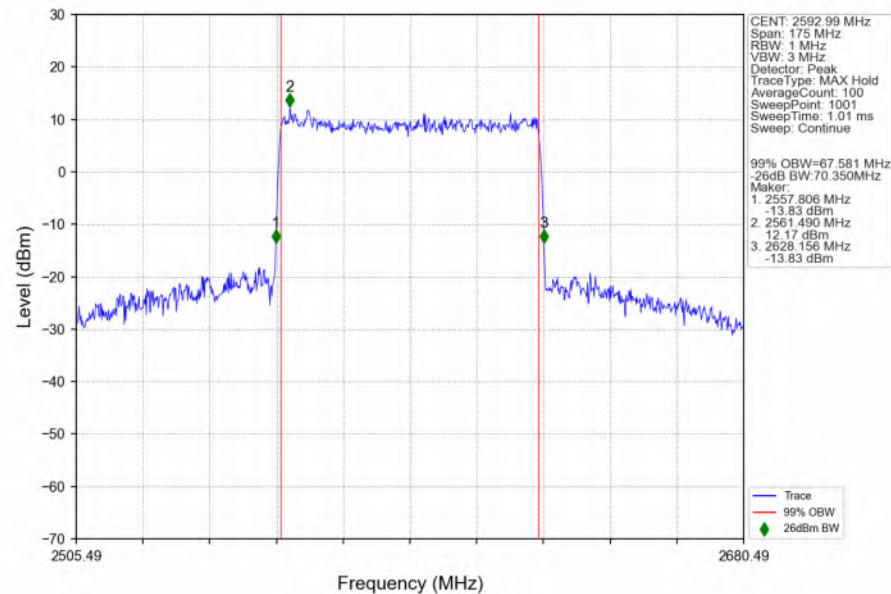
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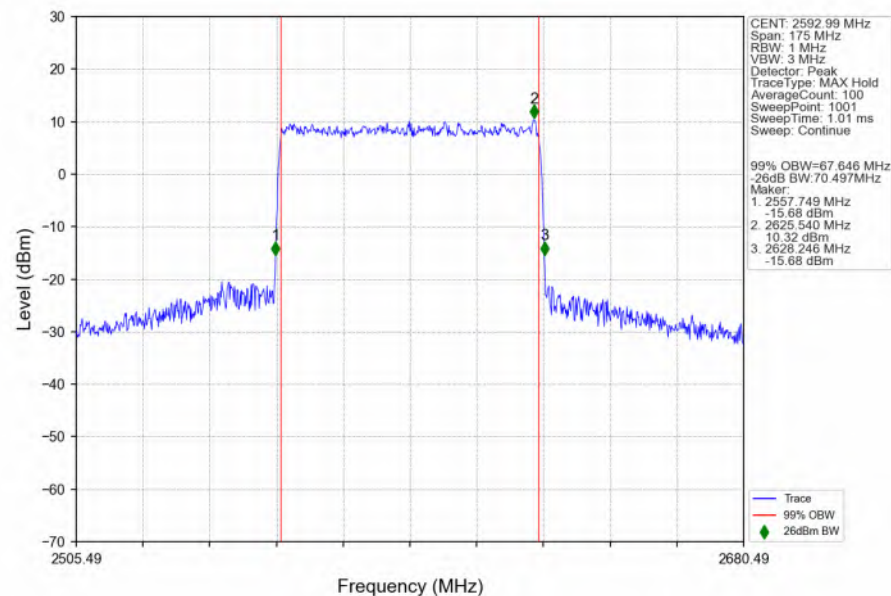
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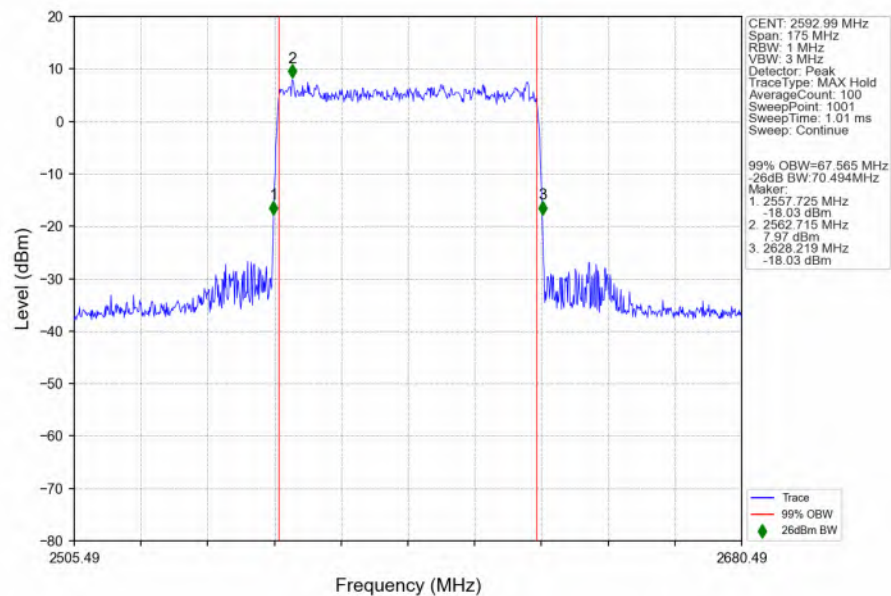
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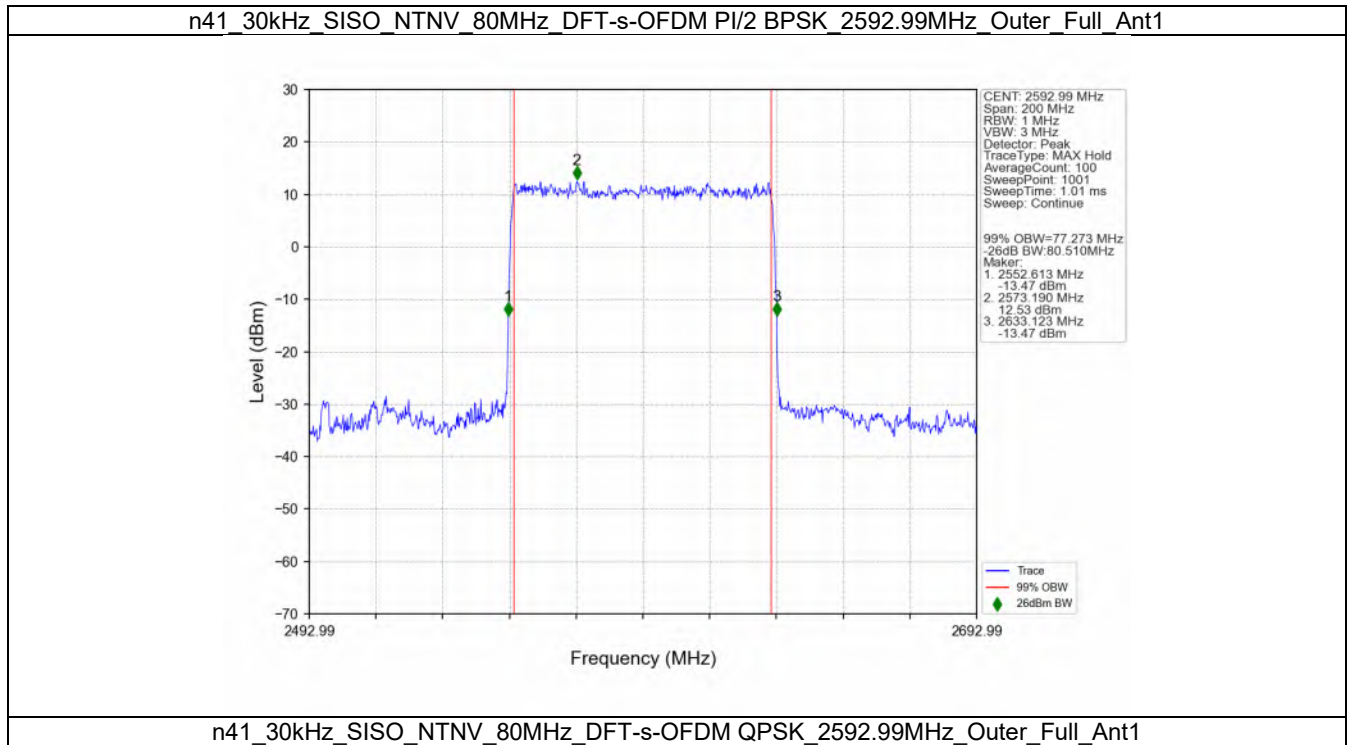
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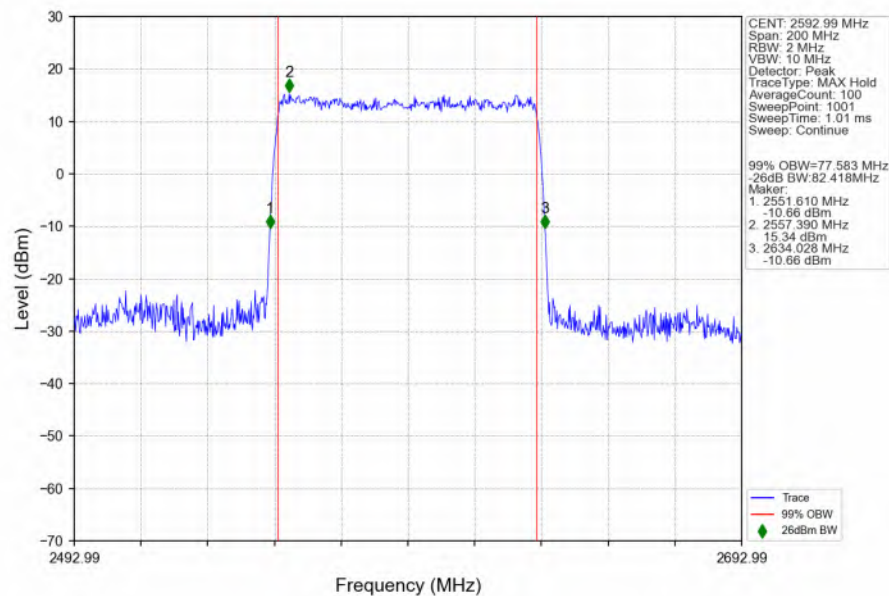


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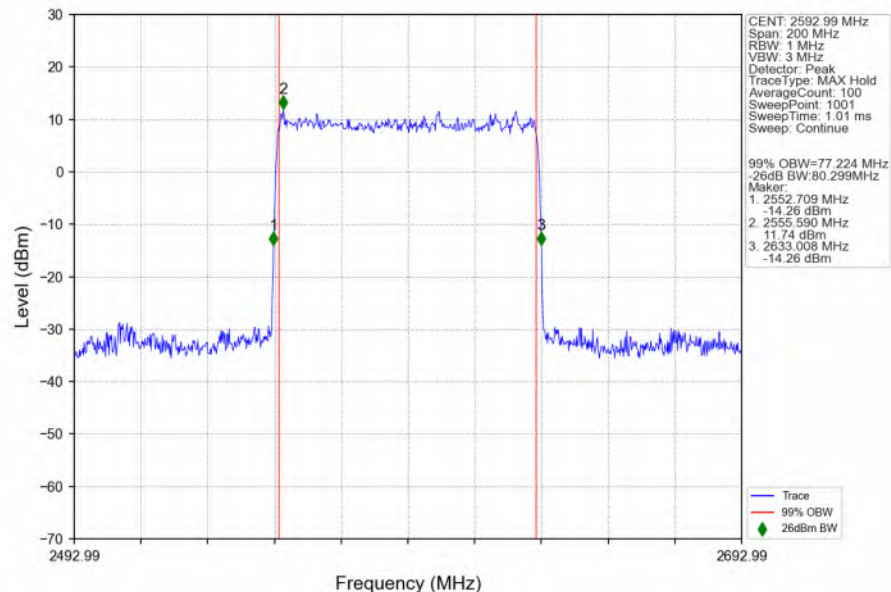


3.2.12 30_S_80M_NTNV

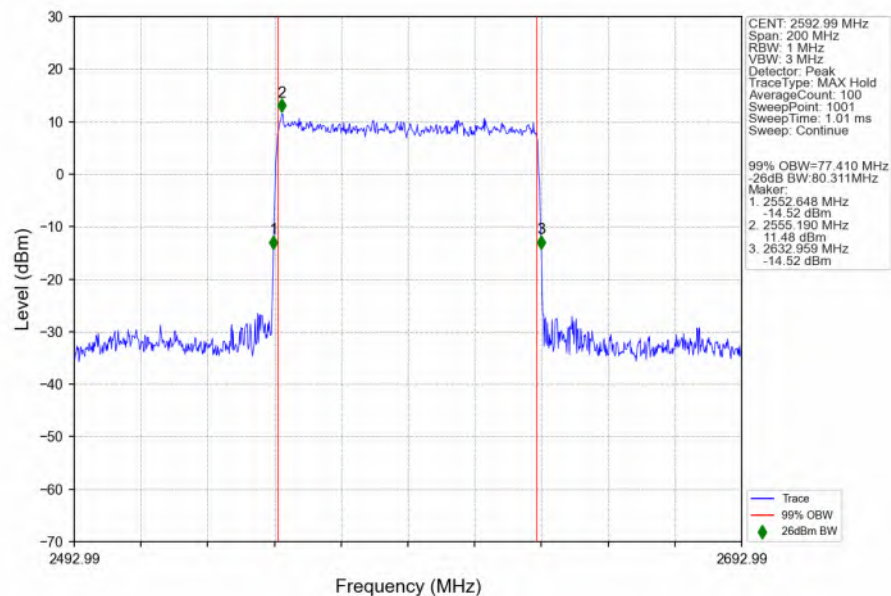




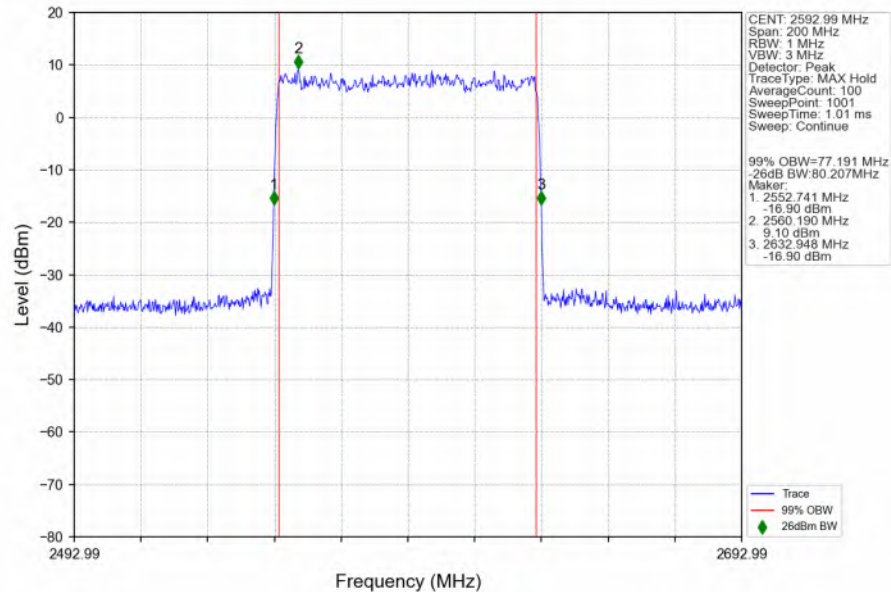
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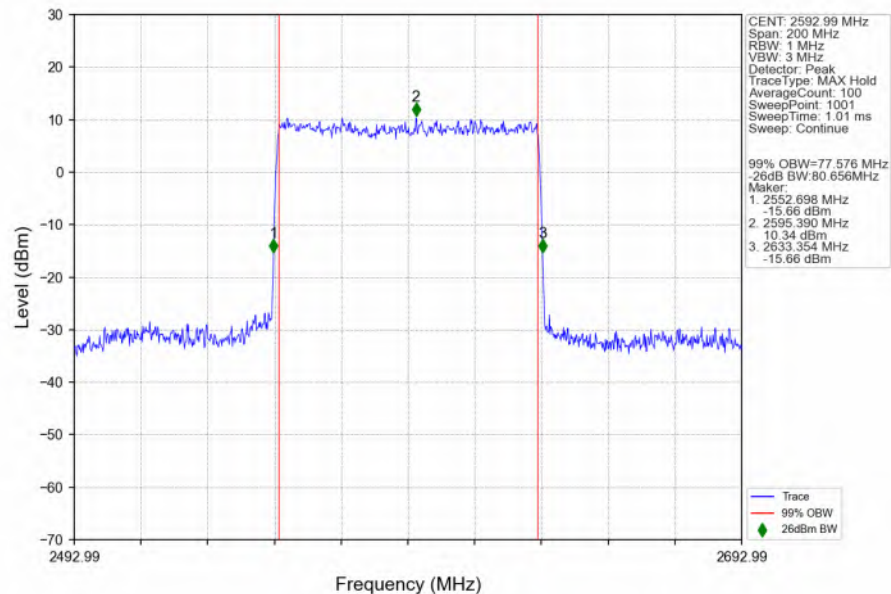
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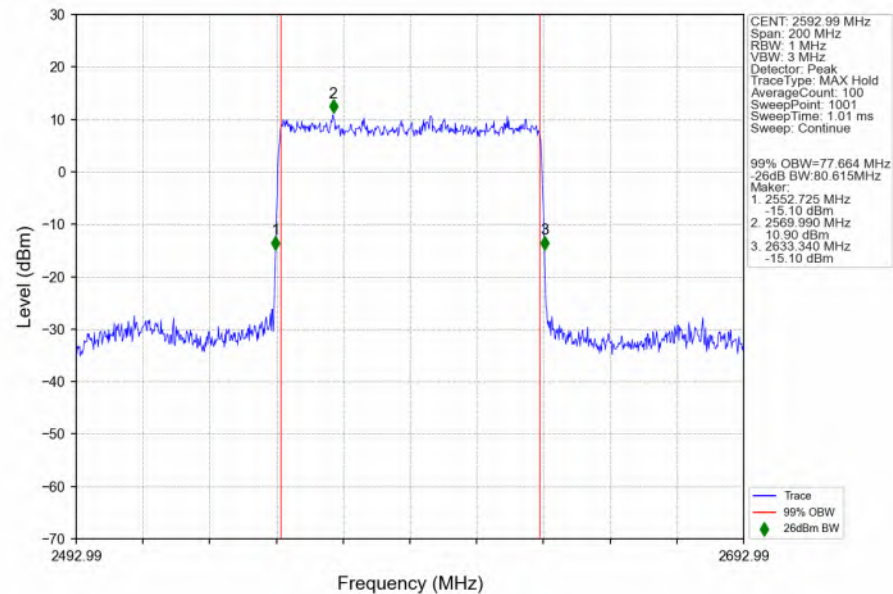
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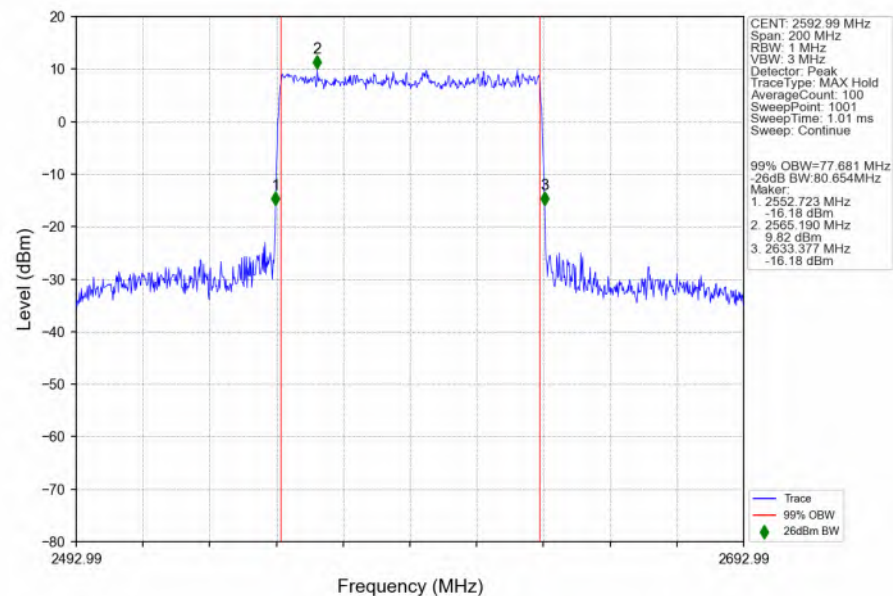
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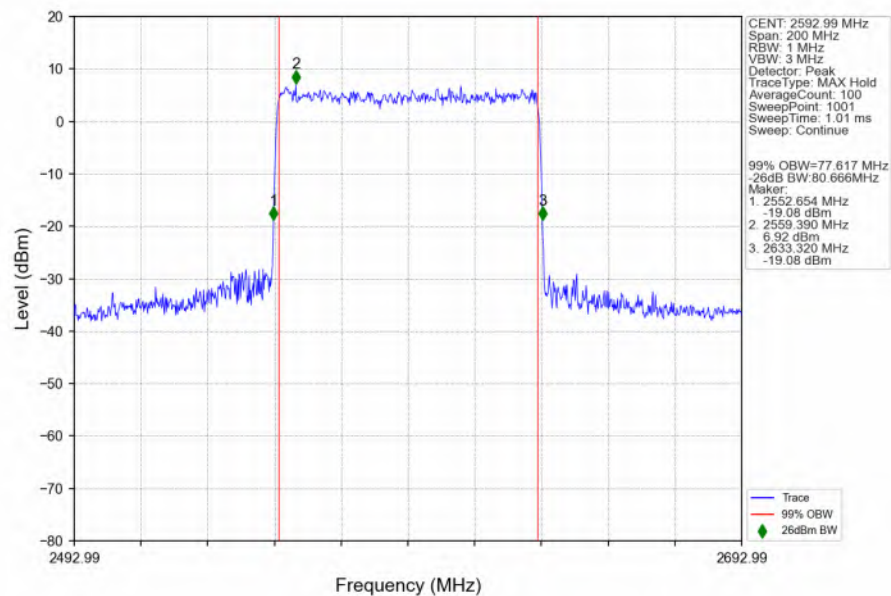
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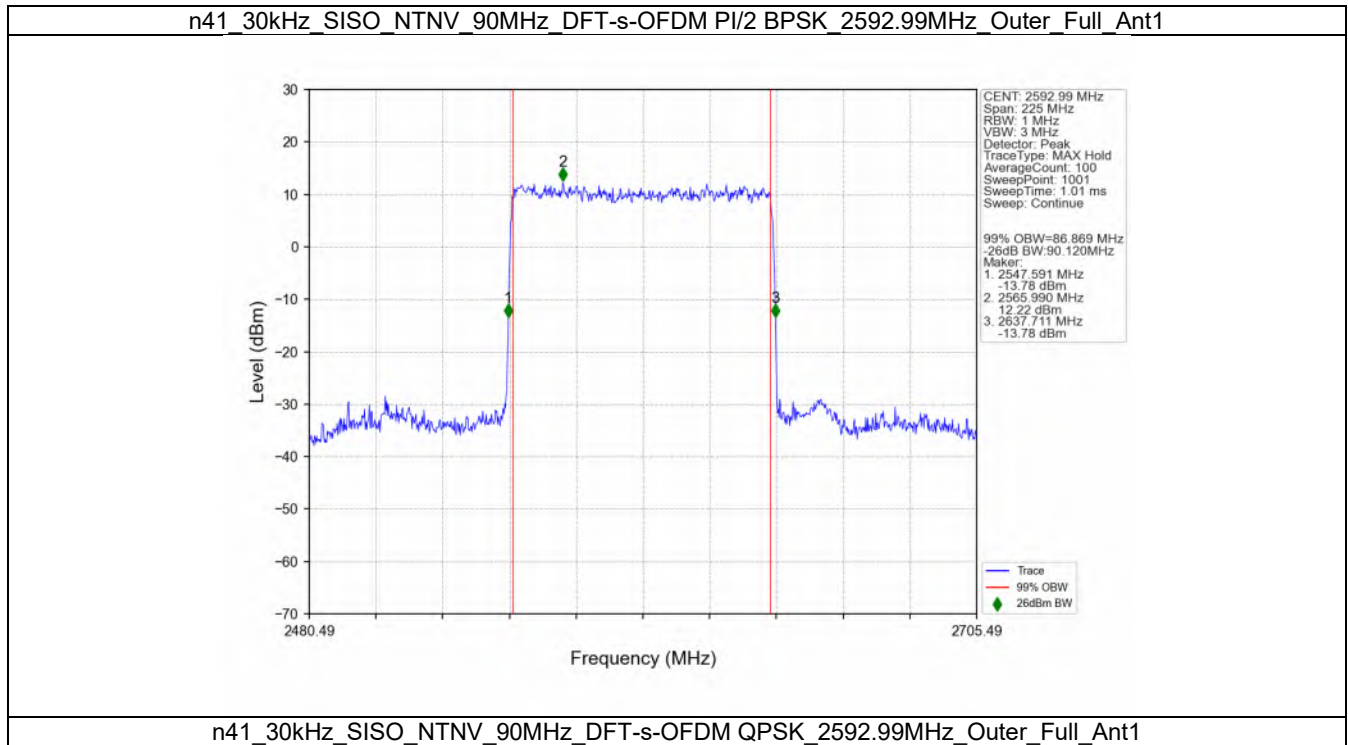
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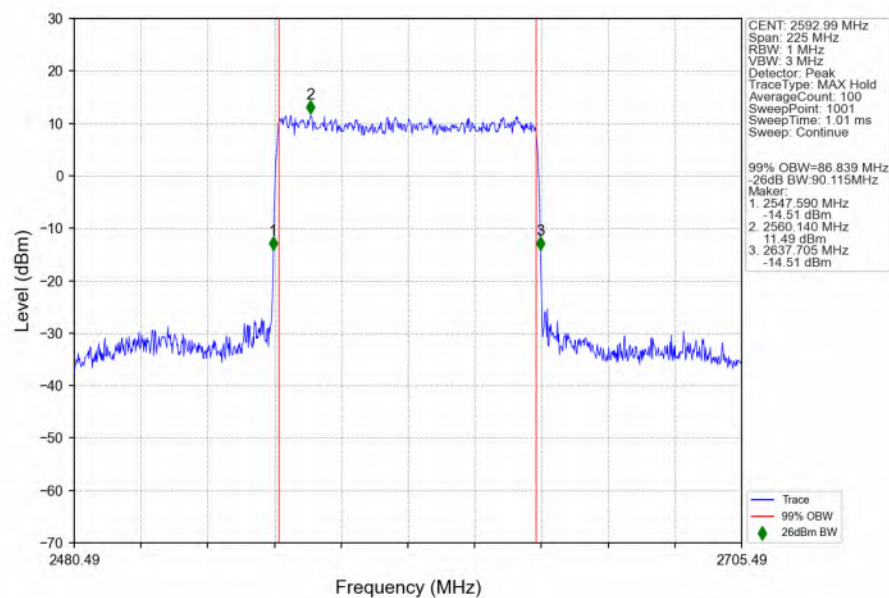


n41_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM 2592.99MHz_Outer_Full_Ant1

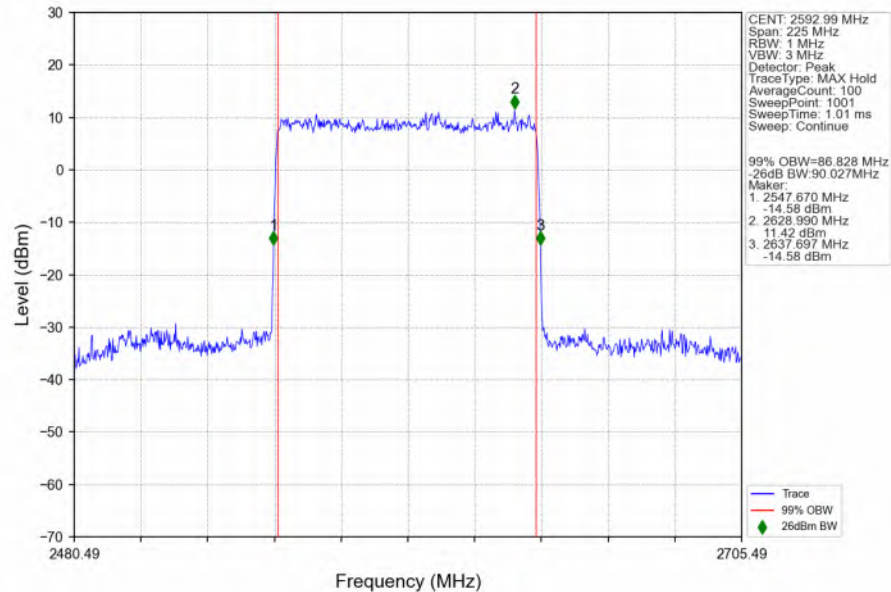


3.2.13 30_S_90M_NTNV

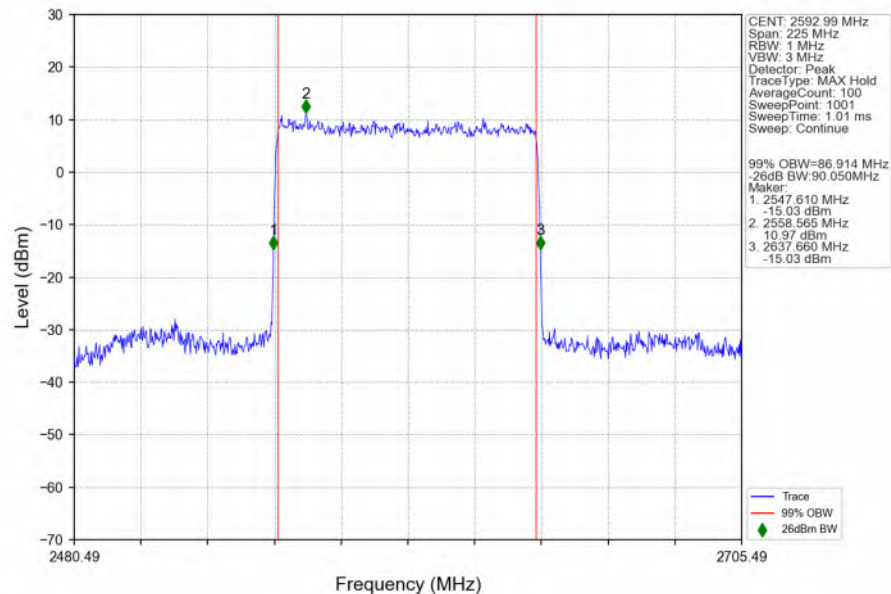




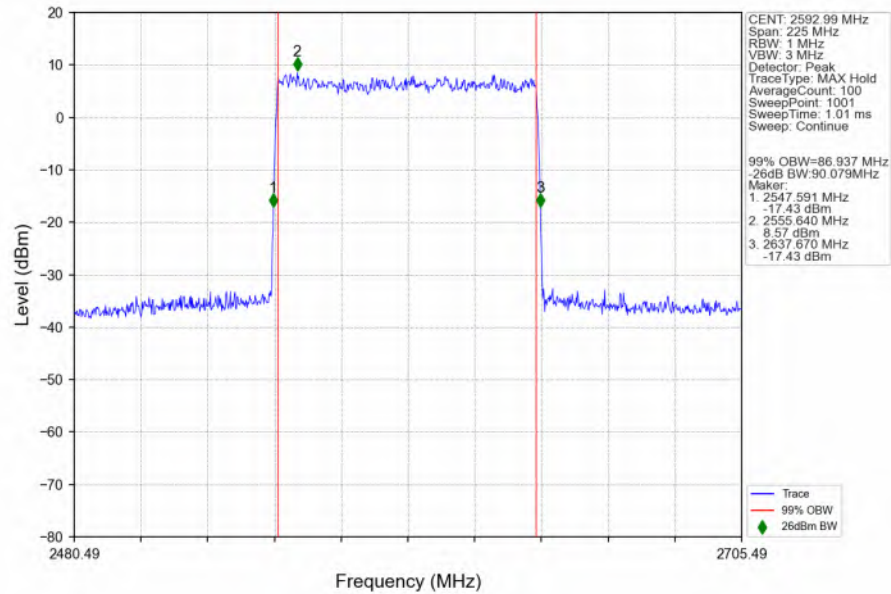
n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 16 QAM_2592.99MHz_Outer_Full_Ant1



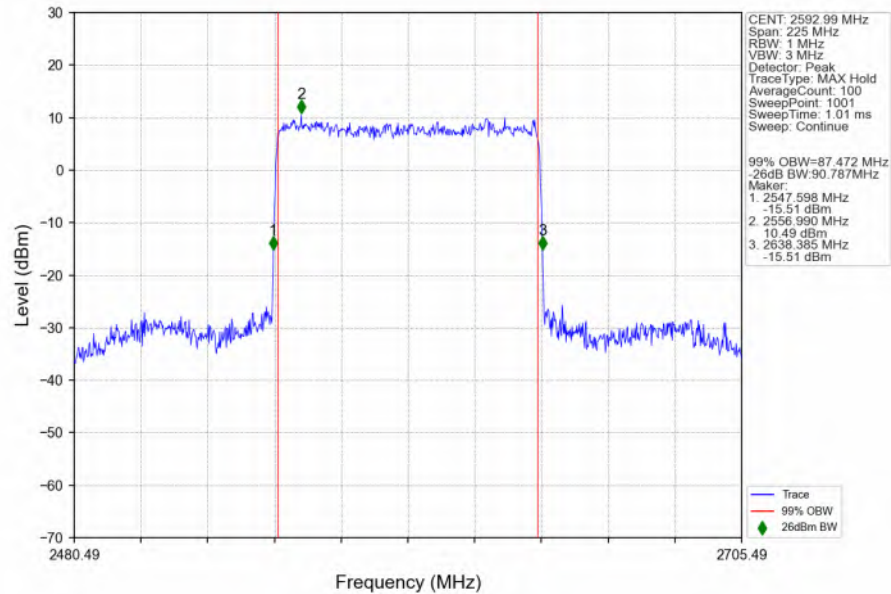
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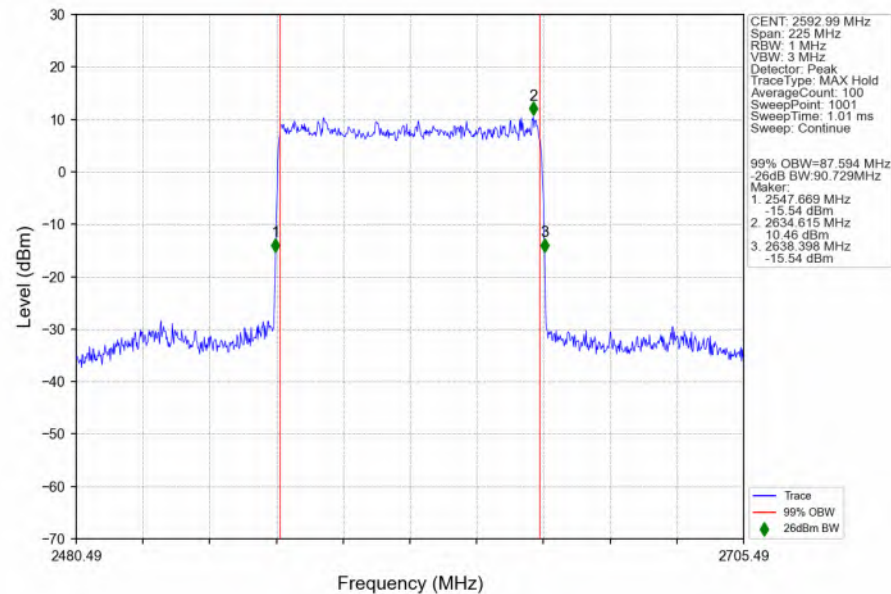
n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256 QAM_2592.99MHz_Outer_Full_Ant1



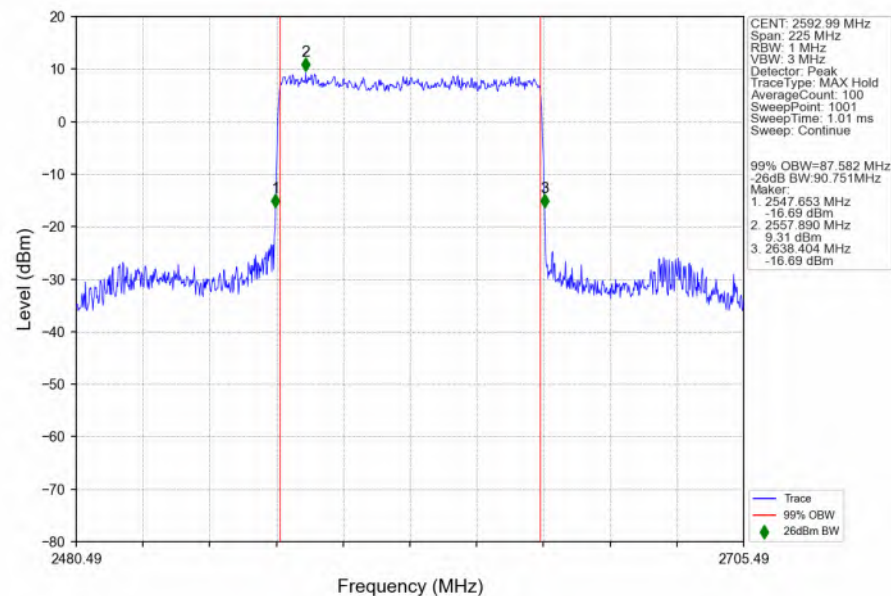
n41_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_2592.99MHz_Outer_Full_Ant1



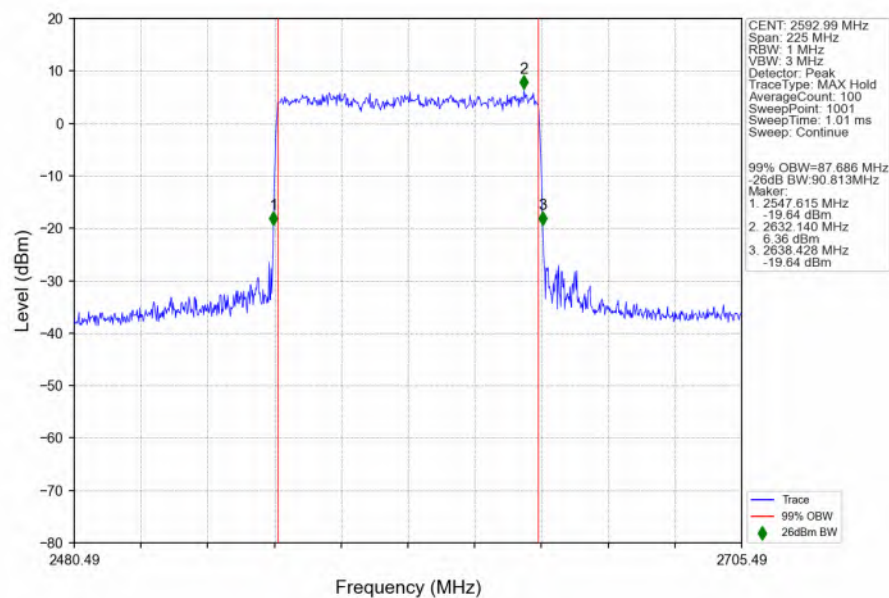
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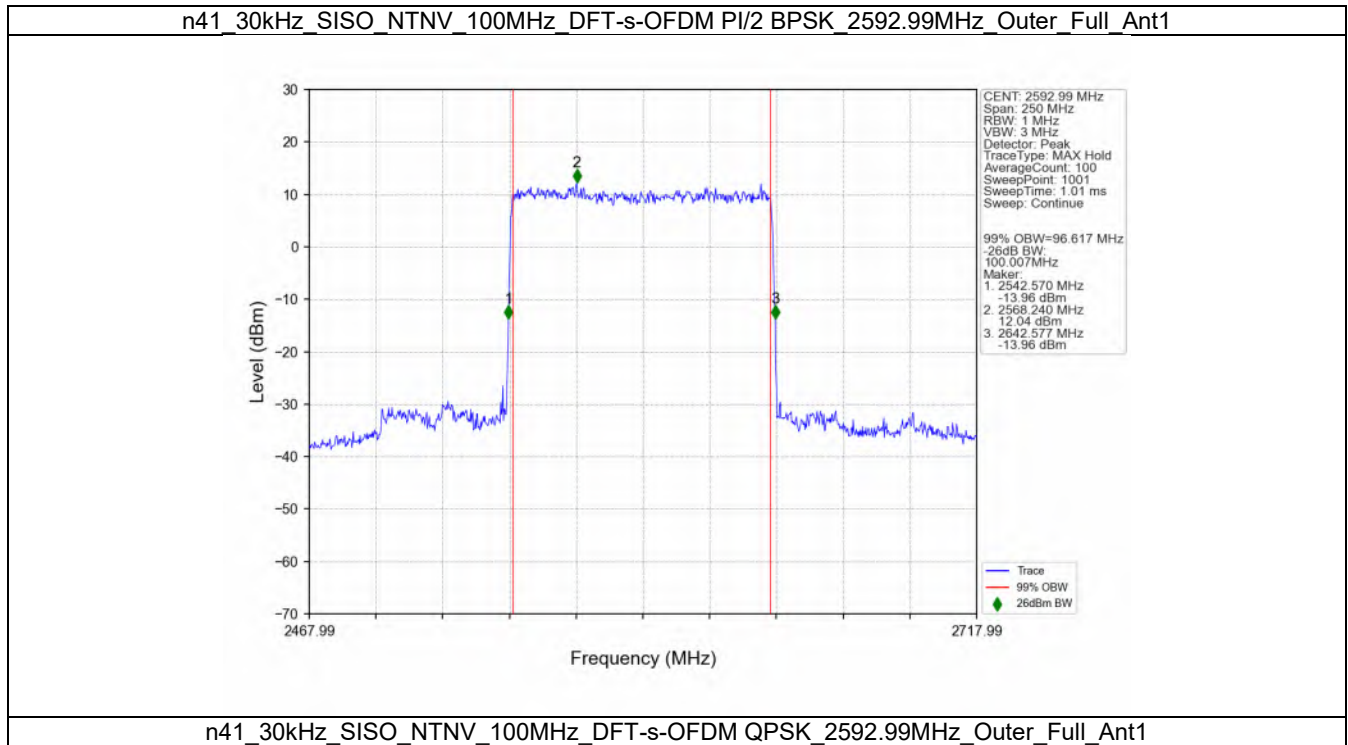
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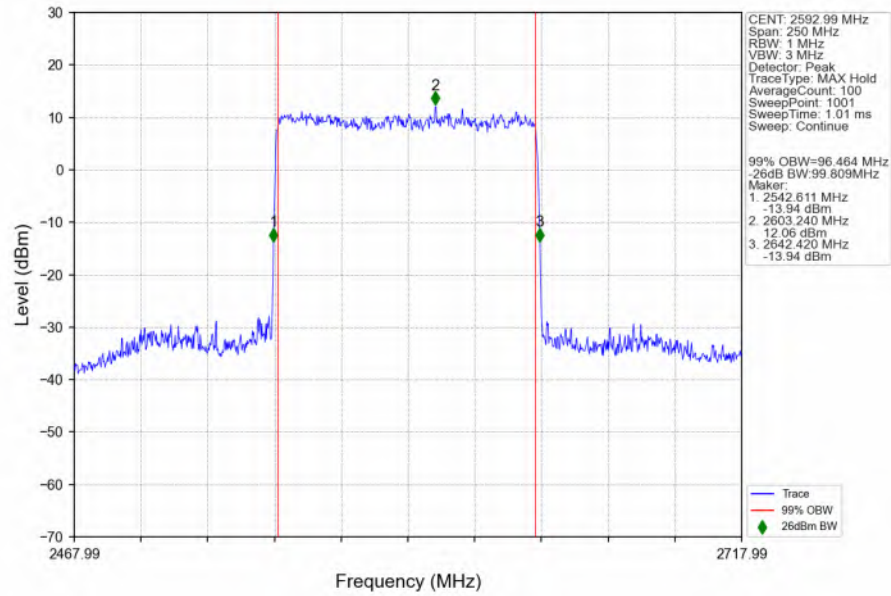


n41_30kHz_SISO_NTNV_90MHz_CP-OFDM 256 QAM_2592.99MHz_Outer_Full_Ant1

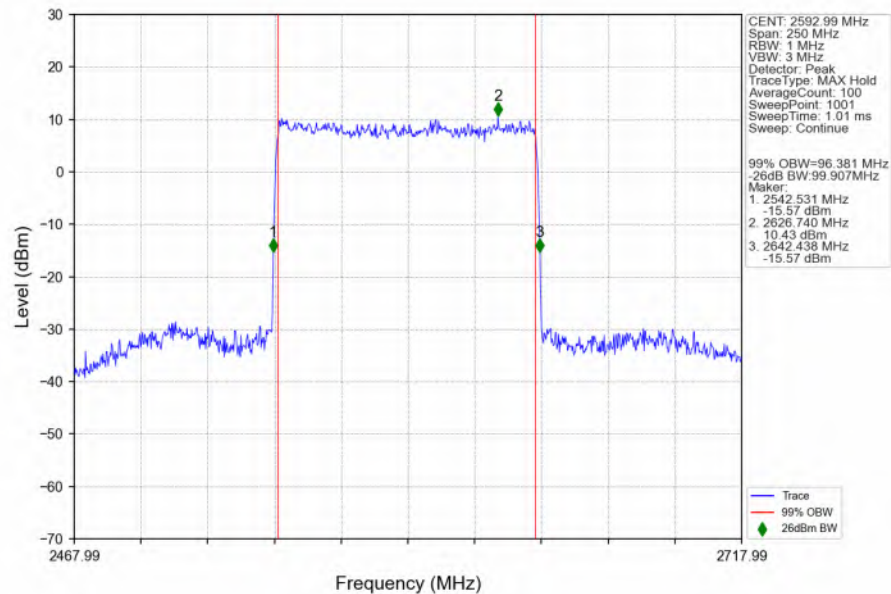


3.2.14 30_S_100M_NTNV

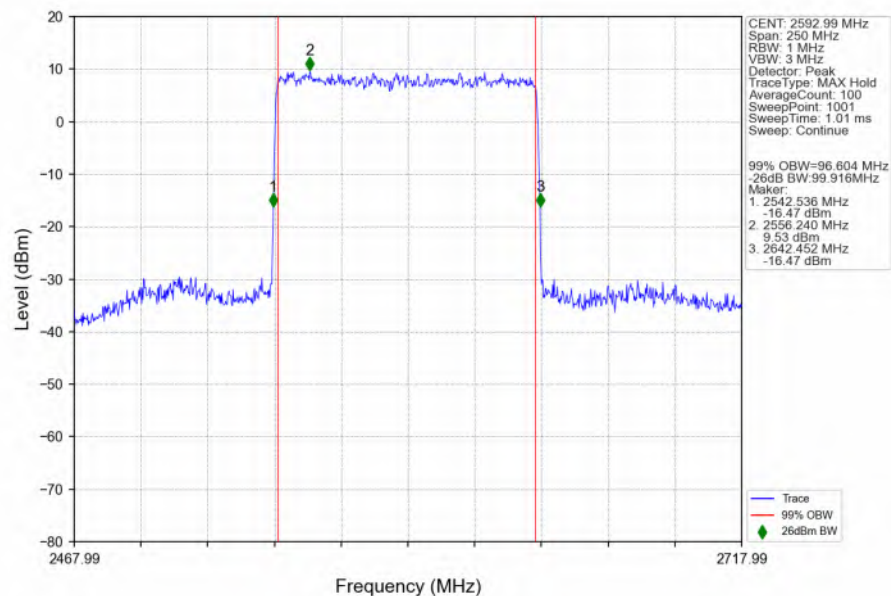




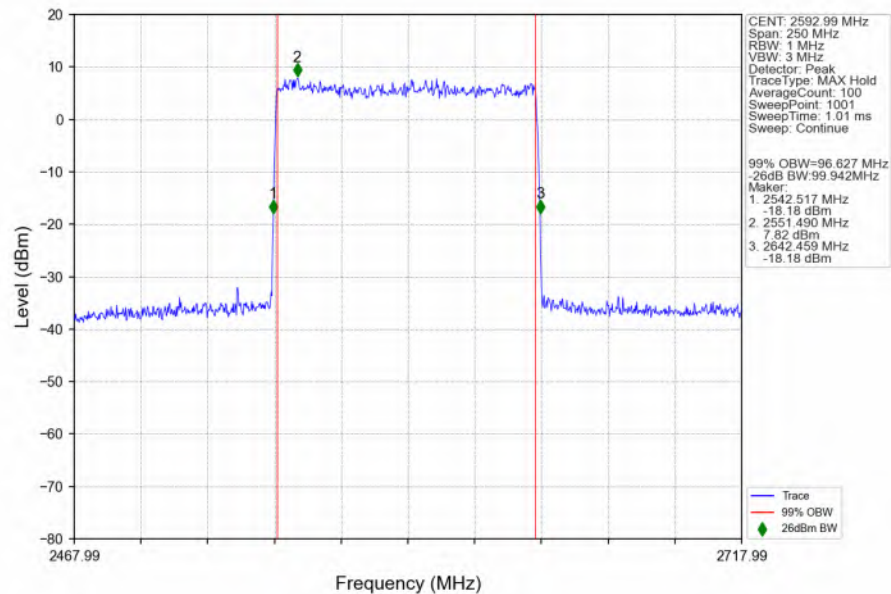
n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 16 QAM 2592.99MHz_Outer_Full_Ant1



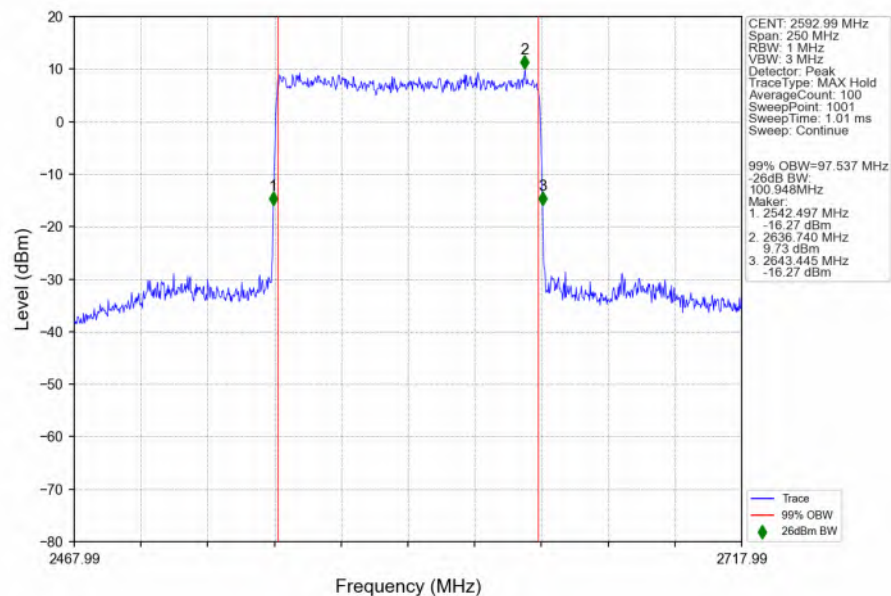
n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 64 QAM 2592.99MHz_Outer_Full_Ant1



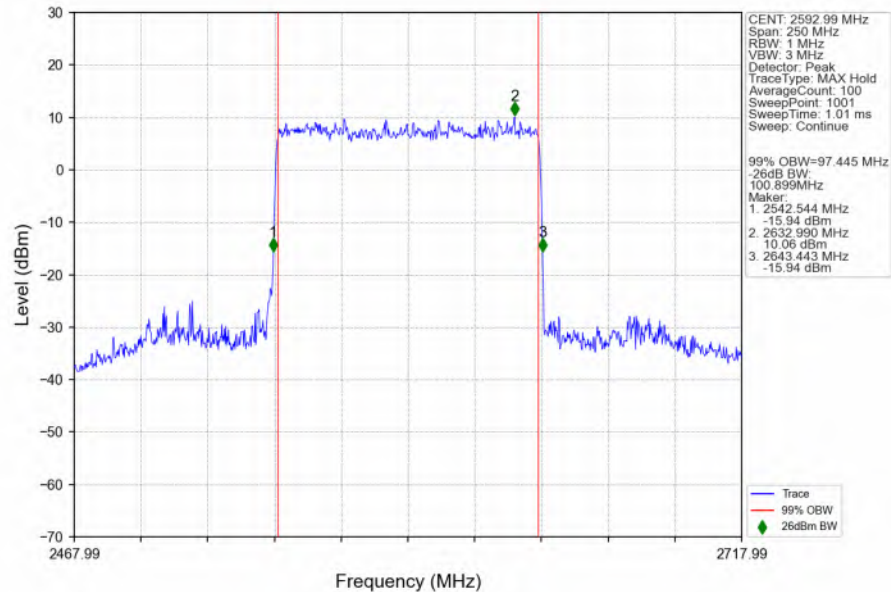
n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_256_QAM_2592.99MHz_Outer_Full_Ant1



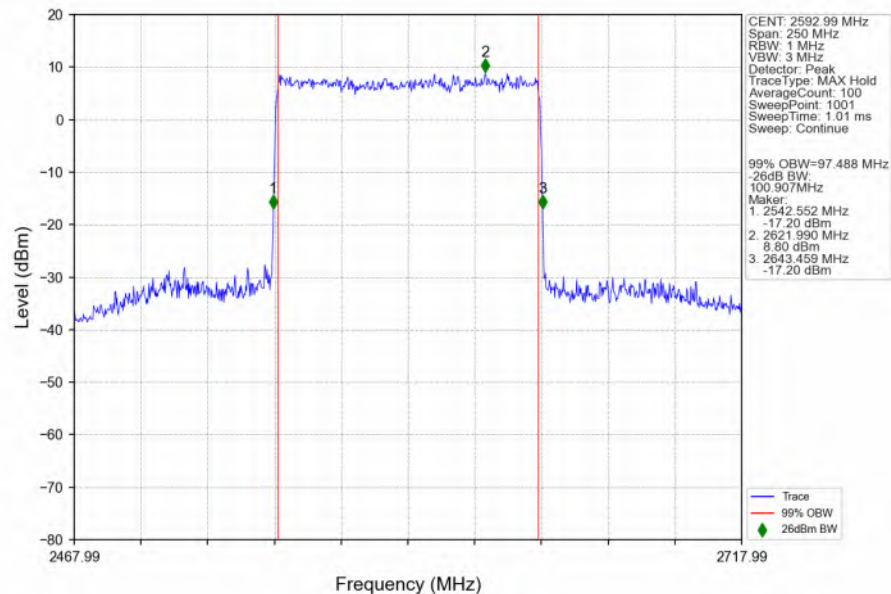
n41_30kHz_SISO_NTNV_100MHz_CP-OFDM_QPSK_2592.99MHz_Outer_Full_Ant1



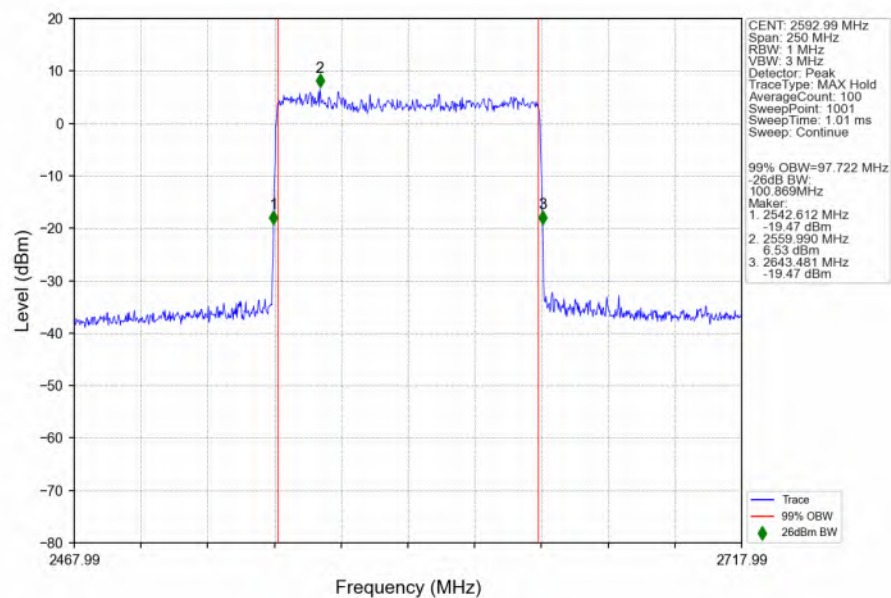
n41_30kHz_SISO_NTNV_100MHz_CP-OFDM 16 QAM_2592.99MHz_Outer_Full_Ant1



n41_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_2592.99MHz_Outer_Full_Ant1



n41_30kHz_SISO_NTNV_100MHz_CP-OFDM_256_QAM_2592.99MHz_Outer_Full_Ant1





Report No.: SUCR260400034202
Page: 136 of 189

4. Peak-Average Ratio

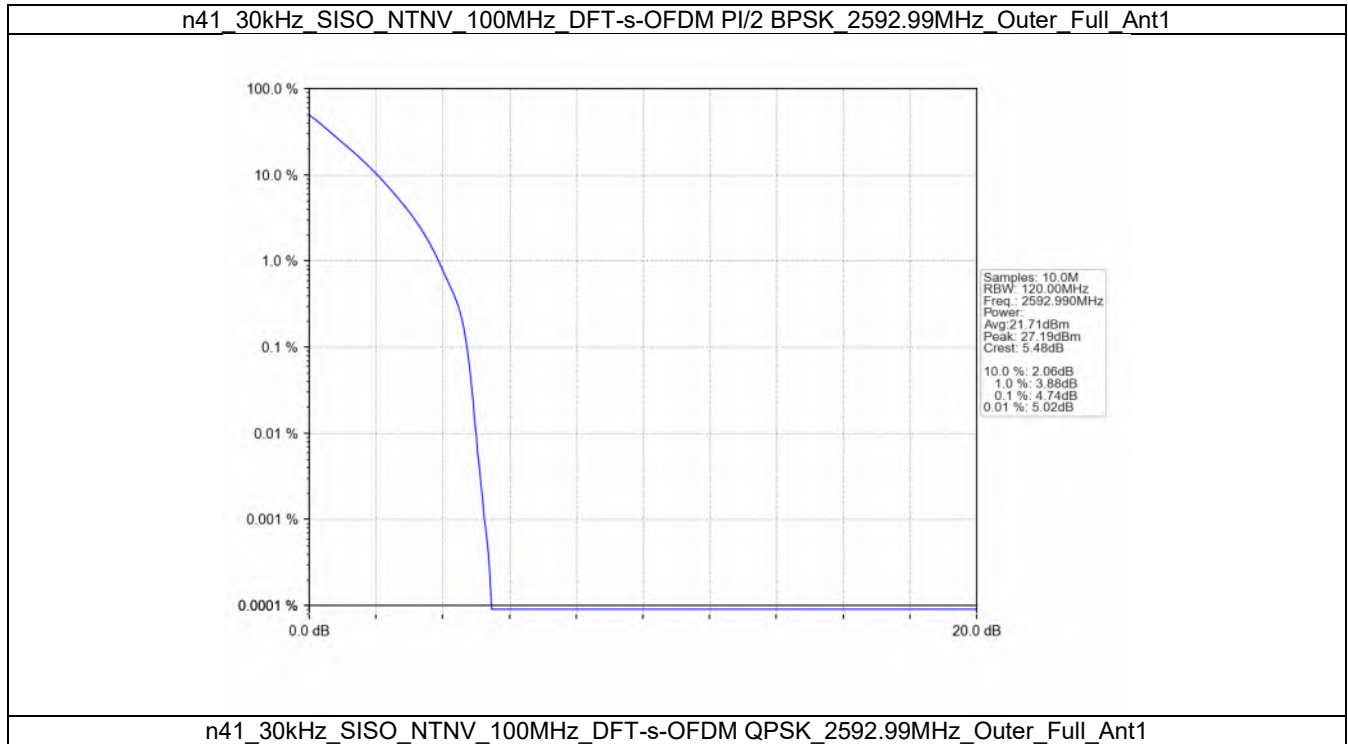
4.1 Test Result

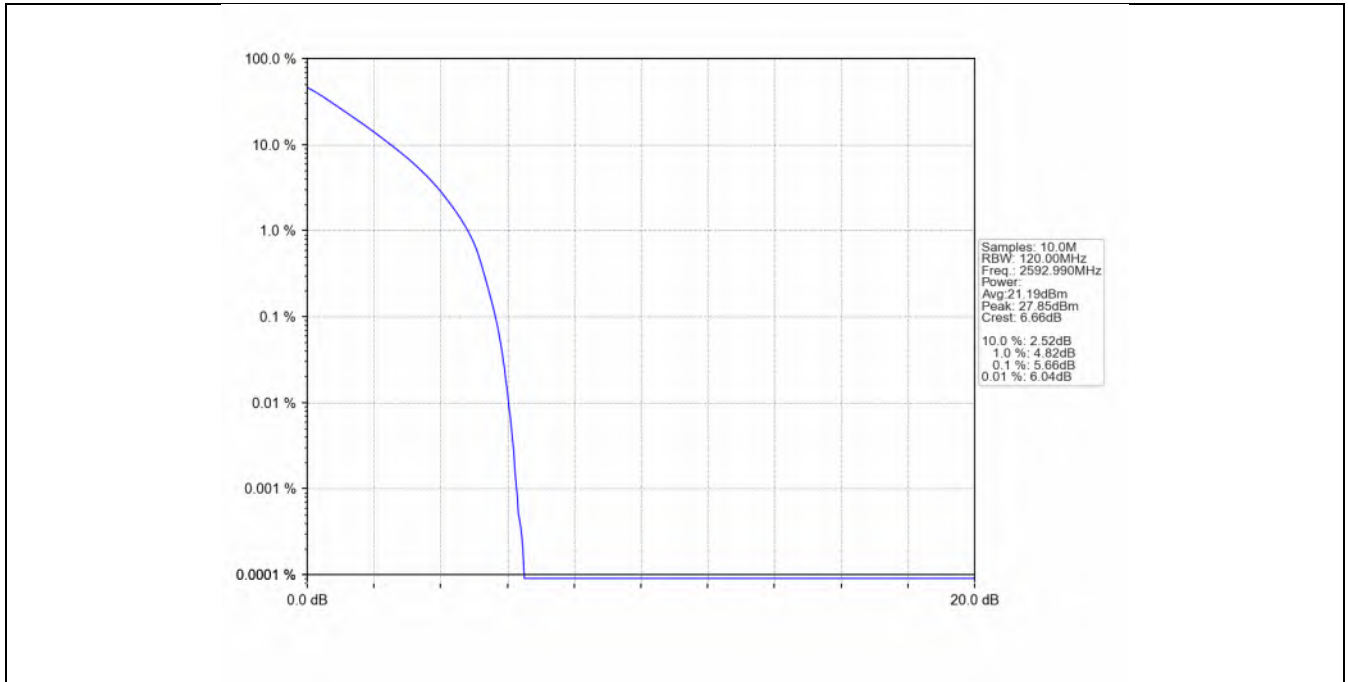
4.1.1 30_S_100M_NTNV

5G NR n41 SCS=30kHz SISO 100MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2592.99	Outer_Full	4.74	/	/	<=13	Pass
DFT-s-OFDM QPSK	2592.99	Outer_Full	5.66	/	/	<=13	Pass
CP-OFDM QPSK	2592.99	Outer_Full	7.78	/	/	<=13	Pass

4.2 Test Graph

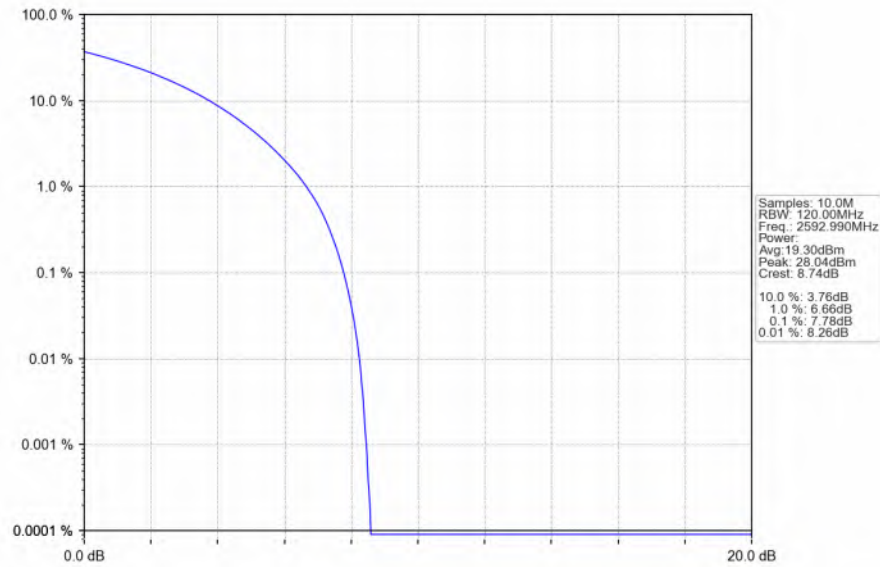
4.2.1 30_S_100M_NTNV







n41_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_2592.99MHz_Outer_Full_Ant1





5. Spurious Emission

5.1 Test Result

5.1.1 30_S_10M_NTNV

5G NR n41 SCS=30kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2501.01	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
		2685	Edge_1RB_Right	Refer To Test Graph			
			Outer_Full	Refer To Test Graph			
	DFT-s-OFDM QPSK	2501.01	Edge_1RB_Left	Refer To Test Graph			
Outer_Full			Refer To Test Graph				Pass
2592.99		Edge_1RB_Left	Refer To Test Graph				Pass
		2685	Edge_1RB_Right	Refer To Test Graph			
			Outer_Full	Refer To Test Graph			
CP-OFDM QPSK		2501.01	Edge_1RB_Left	Refer To Test Graph			
	Outer_Full		Refer To Test Graph				Pass
	2592.99	Edge_1RB_Left	Refer To Test Graph				Pass
		2685	Edge_1RB_Right	Refer To Test Graph			
			Outer_Full	Refer To Test Graph			

5.1.2 30_S_45M_NTNV

5G NR n41 SCS=30kHz SISO 45MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2518.5	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
	2667.48	Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	2518.5	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
	2667.48	Outer_Full	Refer To Test Graph				Pass
CP-OFDM QPSK	2518.5	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
	2667.48	Outer_Full	Refer To Test Graph				Pass



Report No.: SUCR260400034202

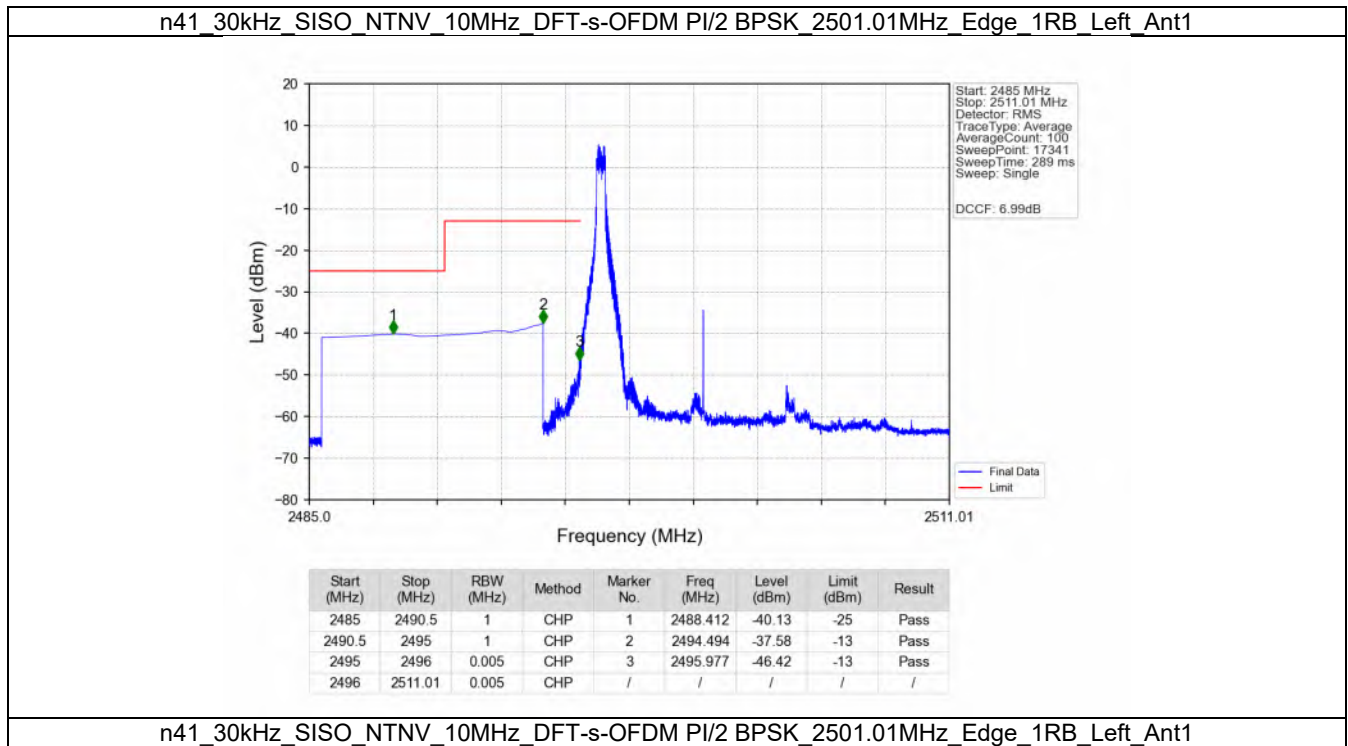
Page: 141 of 189

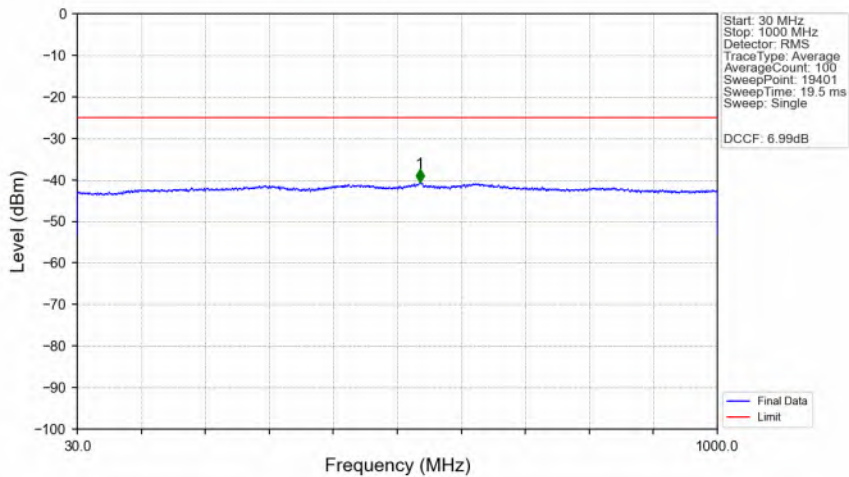
5.1.3 30_S_100M_NTNV

5G NR n41 SCS=30kHz SISO 100MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	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				Pass
		Outer Full	Refer To Test Graph				Pass
	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				Pass
		Outer Full	Refer To Test Graph				Pass
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				Pass
		Outer Full	Refer To Test Graph				Pass

5.2 Test Graph

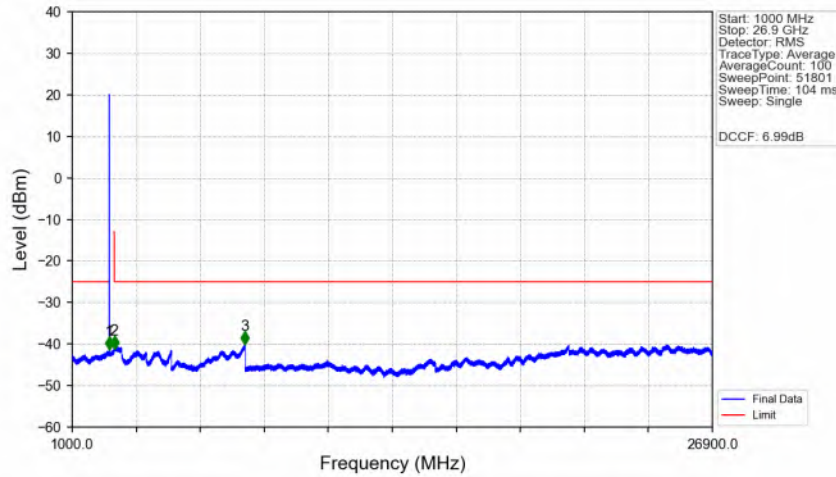
5.2.1 30_S_10M_NTNV





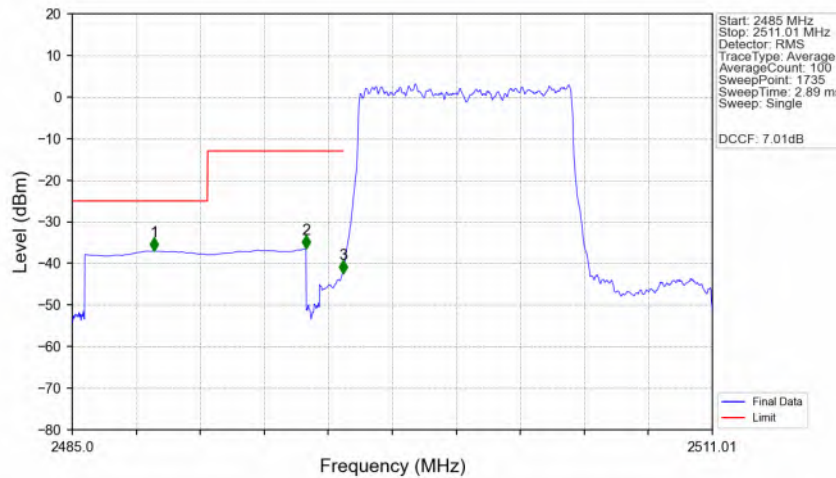
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	549.150	-40.62	-25	Pass

n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2501.01MHz_Edge_1RB_Left_Ant1



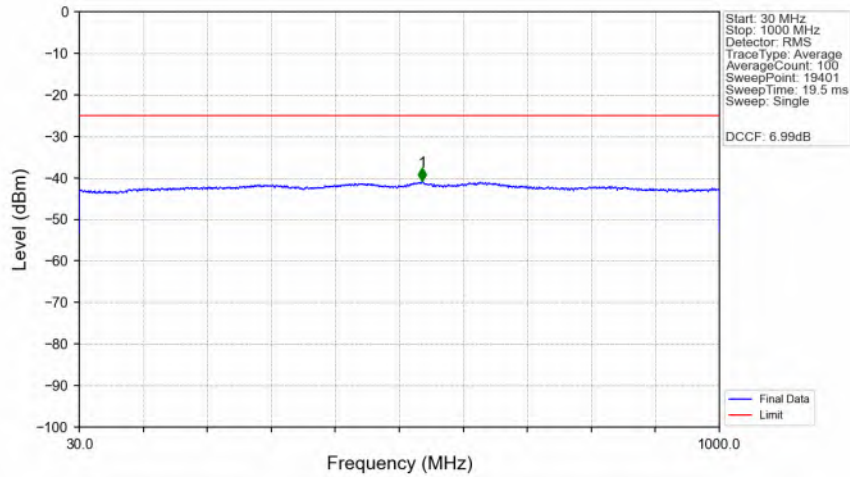
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490.5	1	/	1	2490.500	-41.32	-25	Pass
2490.5	2695	1	/	/	/	/	/	/
2695	2700	1	/	2	2700.000	-41.27	-13	Pass
2700	26900	1	/	3	27979.500	-40.09	-25	Pass

n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2501.01MHz_Outer_Full_Ant1



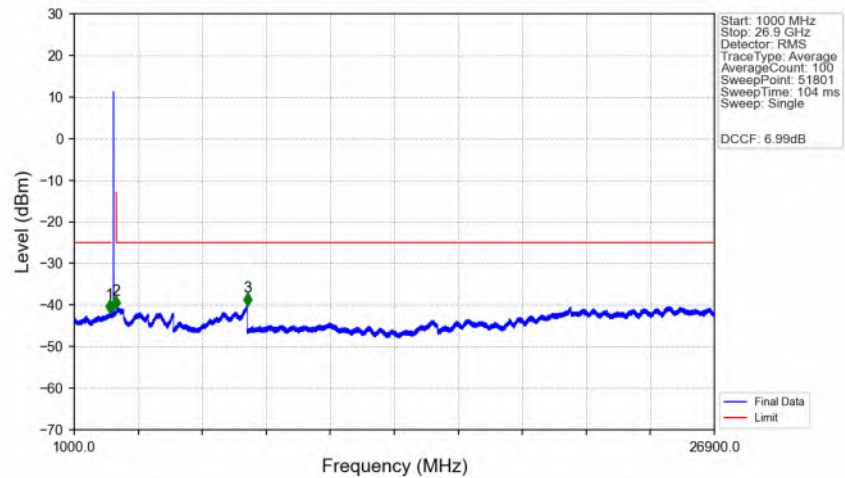
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2488.330	-36.97	-25	Pass
2490.5	2495	1	CHP	2	2494.495	-36.42	-13	Pass
2495	2496	0.091	CHP	3	2495.995	-42.38	-13	Pass
2496	2511.01	0.091	CHP	/	/	/	/	/

n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2592.99MHz_Edge_1RB_Left_Ant1



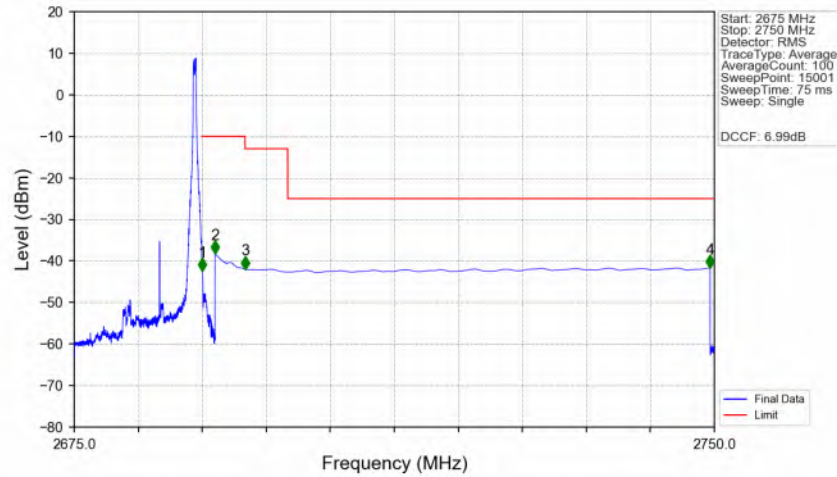
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	549.500	-40.69	-25	Pass

n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2592.99MHz_Edge_1RB_Left_Ant1



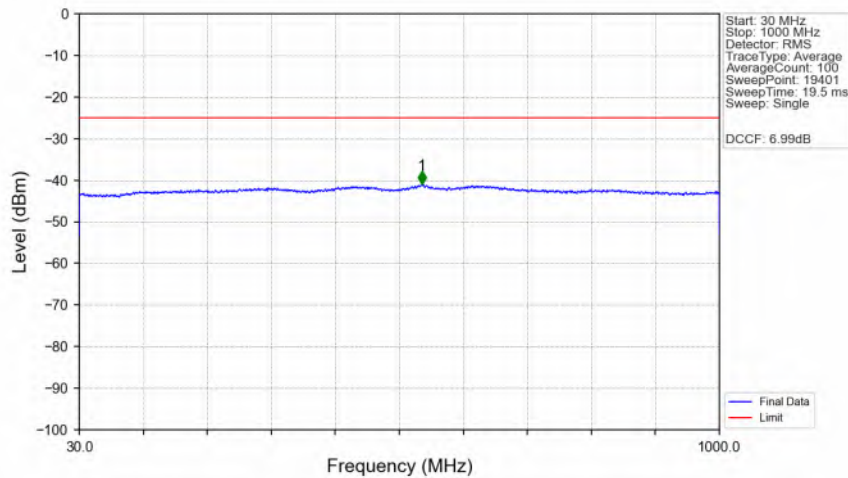
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490.5	1	/	1	2440.000	-41.91	-25	Pass
2490.5	2695	1	/	/	/	/	/	/
2695	2700	1	/	2	2698.500	-41.05	-13	Pass
2700	26900	1	/	3	7998.500	-40.27	-25	Pass

n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_2685MHz_Edge_1RB_Right_Ant1



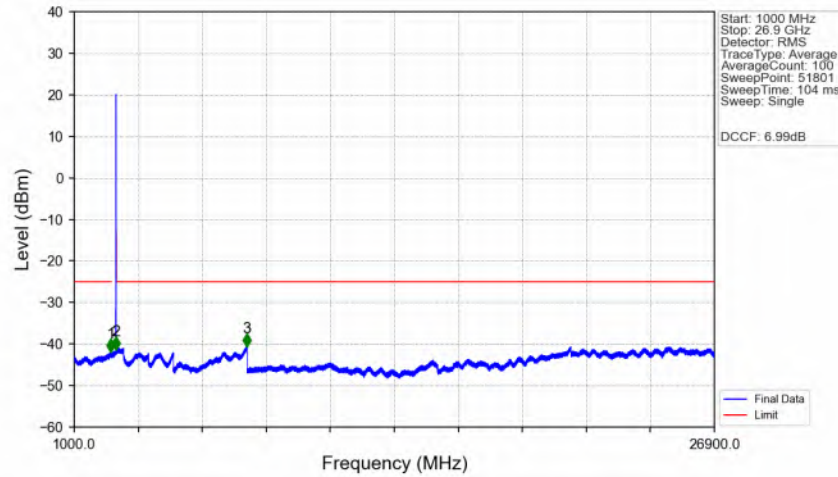
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2675	2690	0.02	CHP	/	/	/	/	/
2690	2691	0.02	CHP	1	2690.005	-42.49	-10	Pass
2691	2695	1	CHP	2	2691.500	-38.29	-10	Pass
2695	2700	1	CHP	3	2695.005	-41.97	-13	Pass
2700	2750	1	CHP	4	2749.490	-41.66	-25	Pass

n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_2685MHz_Edge_1RB_Right_Ant1



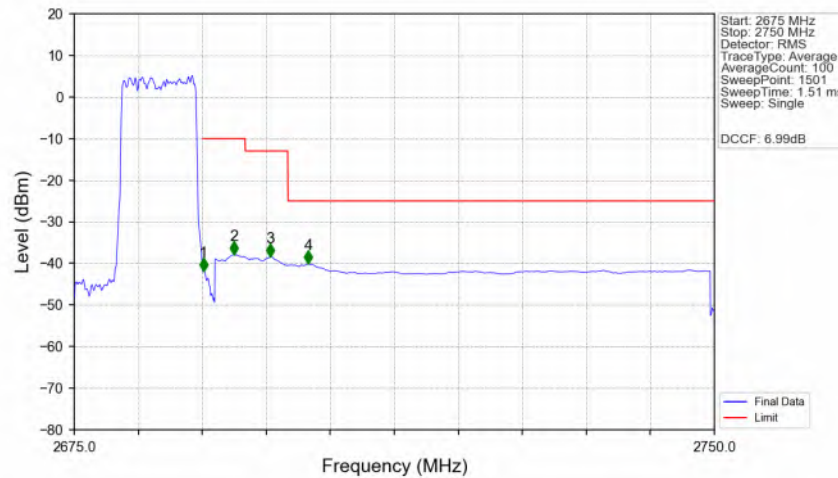
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	548.950	-40.98	-25	Pass

n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2685MHz_Edge_1RB_Right_Ant1



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490.5	1	/	1	2476.000	-41.99	-25	Pass
2490.5	2695	1	/	/	/	/	/	/
2695	2700	1	/	2	2699.000	-41.38	-13	Pass
2700	26900	1	/	3	7991.500	-40.64	-25	Pass

n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2685MHz_Outer_Full_Ant1



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2675	2690	0.183	CHP	/	/	/	/	/
2690	2691	0.183	CHP	1	2690.150	-41.79	-10	Pass
2691	2695	1	CHP	2	2693.700	-37.95	-10	Pass
2695	2700	1	CHP	3	2698.000	-38.46	-13	Pass
2700	2750	1	CHP	4	2702.400	-40.07	-25	Pass