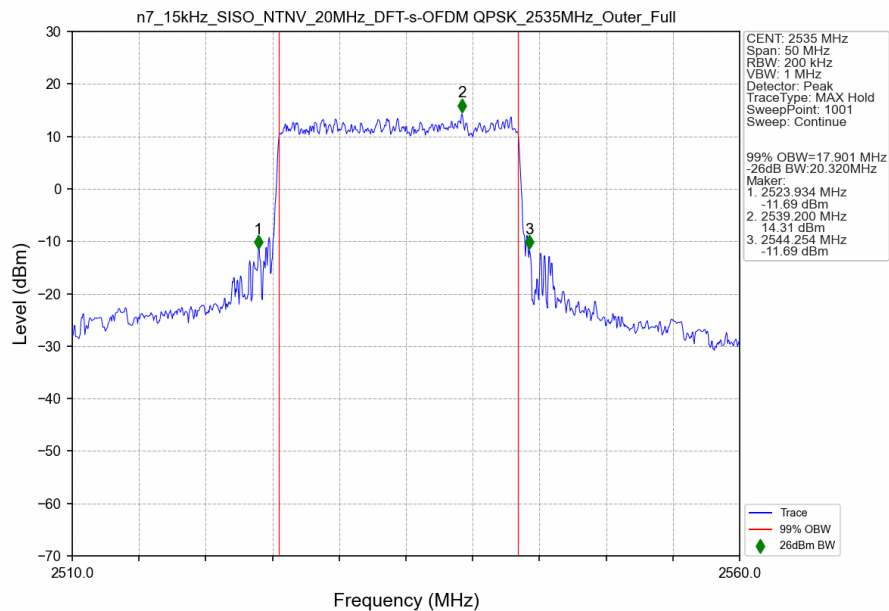
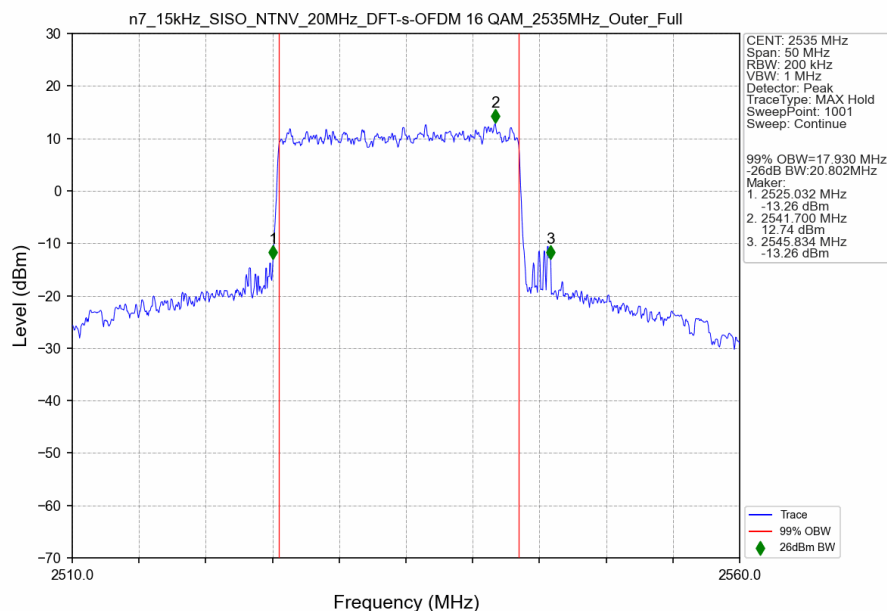


3.2.4 15_S_20M_NTNV

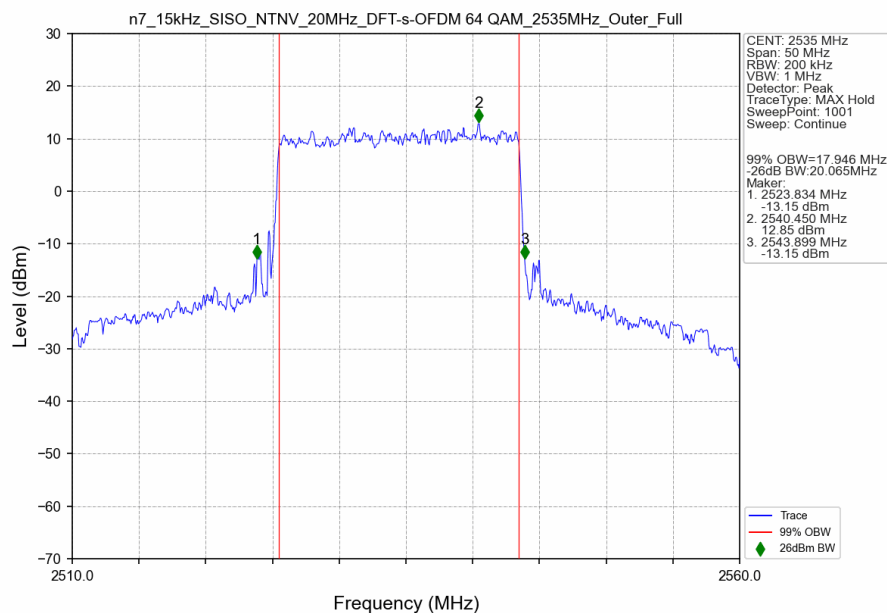




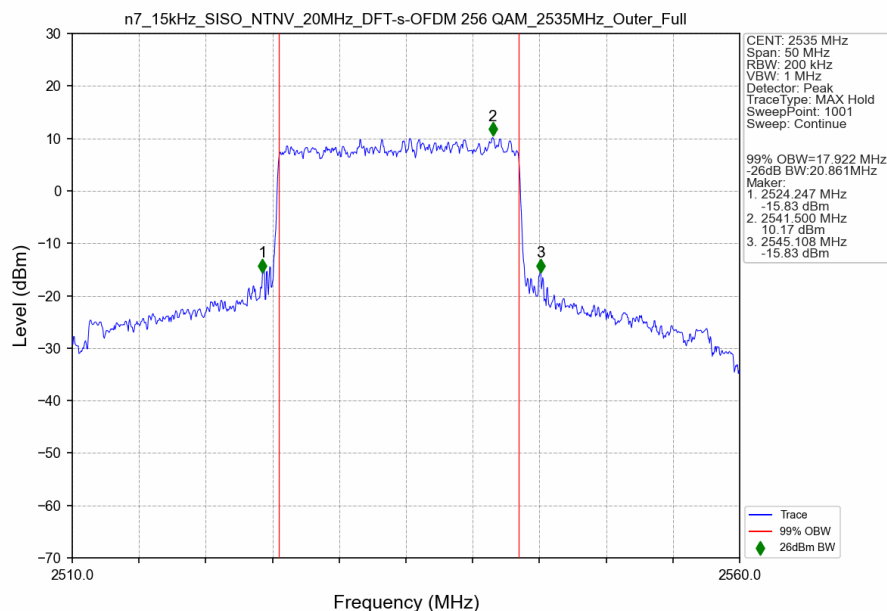
n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_2535MHz_Outer_Full_Ant4



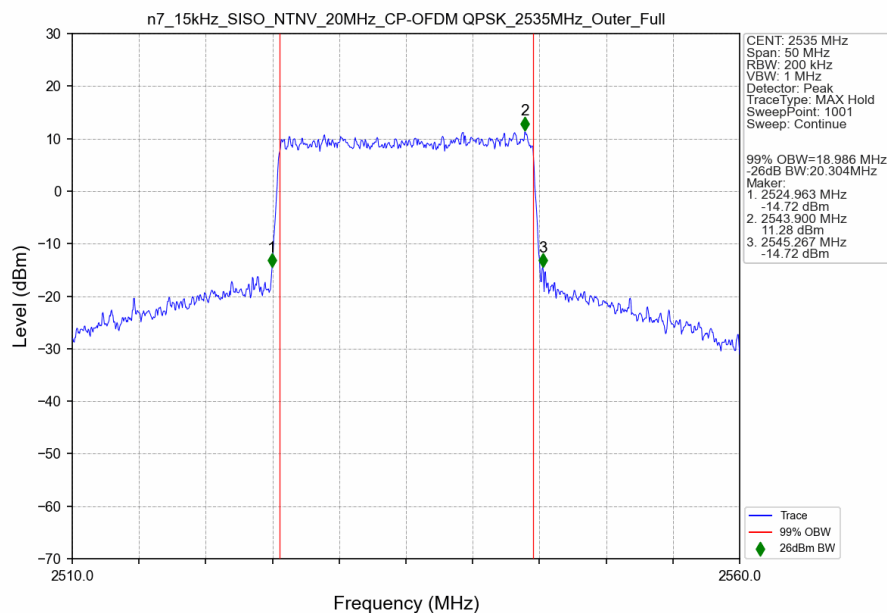
n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2535MHz_Outer_Full_Ant4



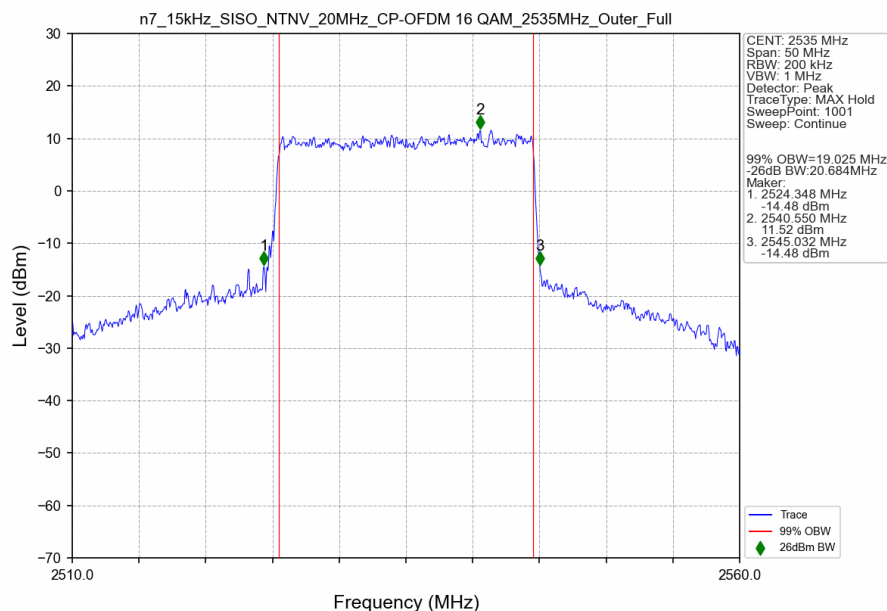
n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full_Ant4



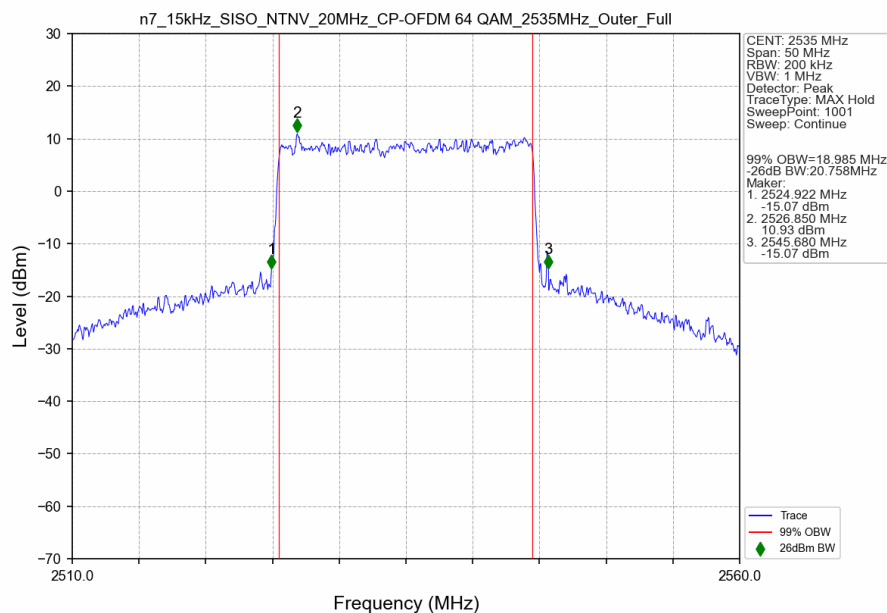
n7_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_2535MHz_Outer_Full_Ant4



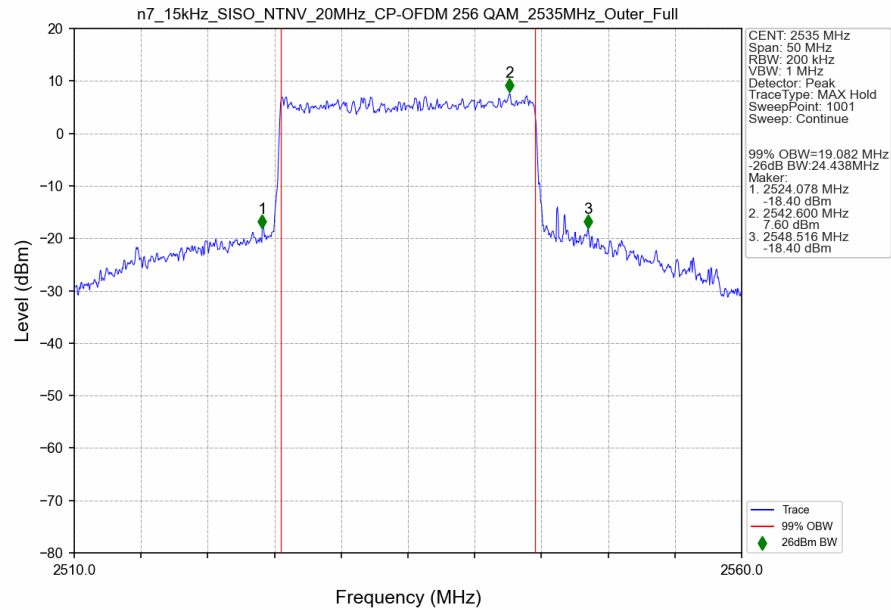
n7_15kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM 2535MHz_Outer_Full_Ant4



n7_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM 2535MHz_Outer_Full_Ant4



n7_15kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_2535MHz_Outer_Full_Ant4





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4. Peak-Average Ratio

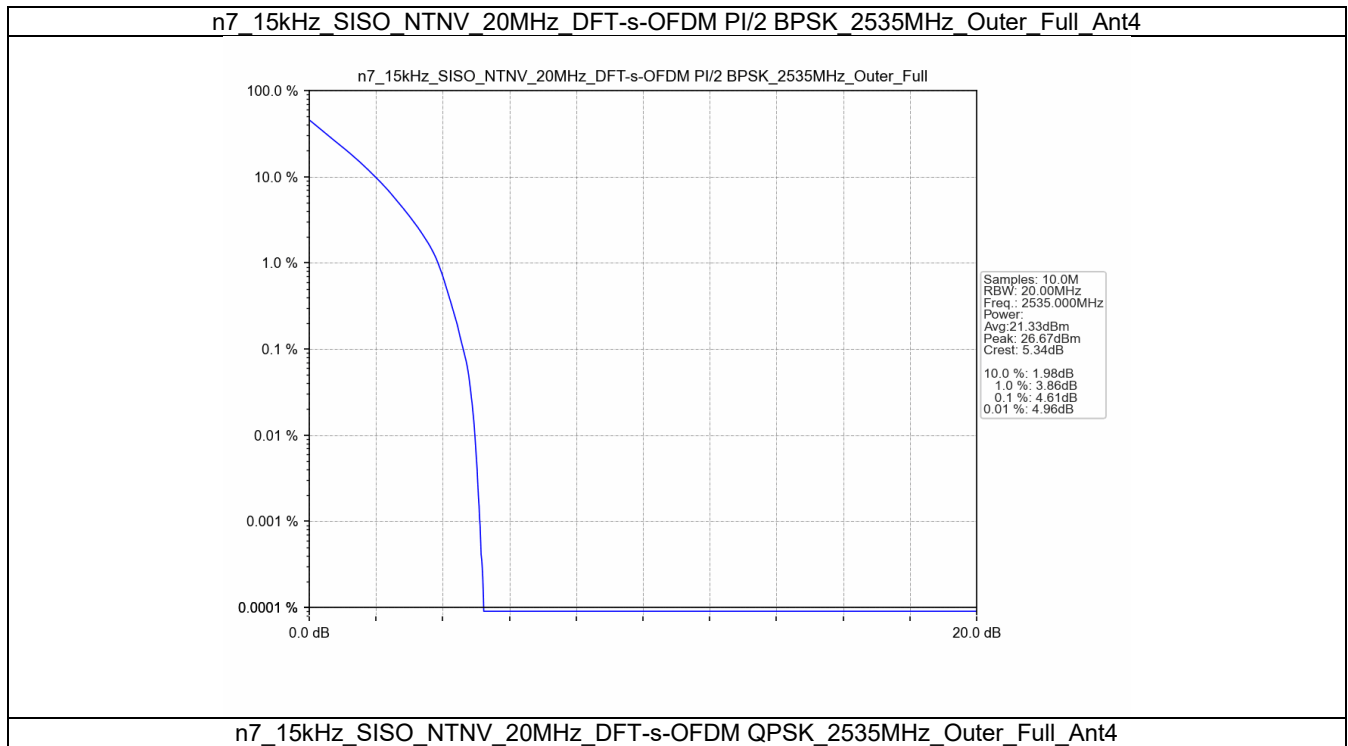
4.1 Test Result

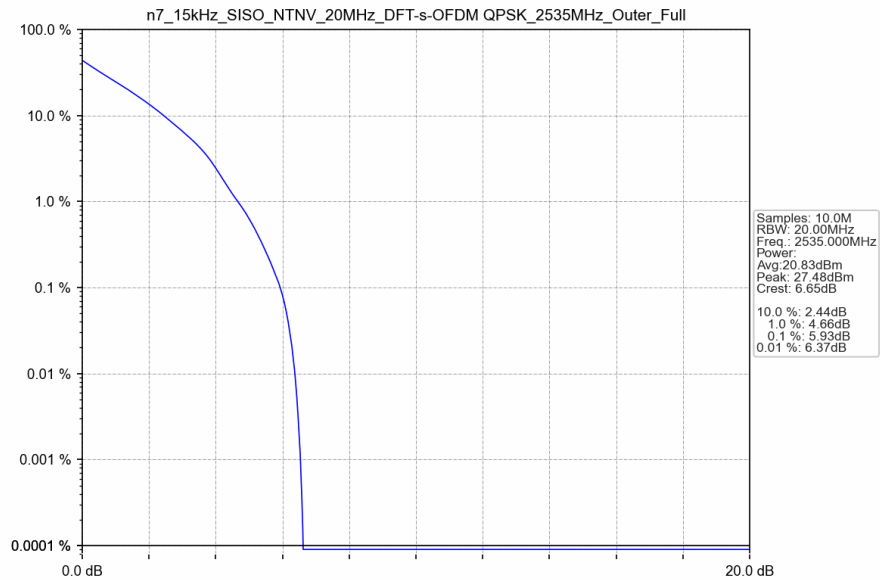
4.1.1 15_S_20M_NTNV

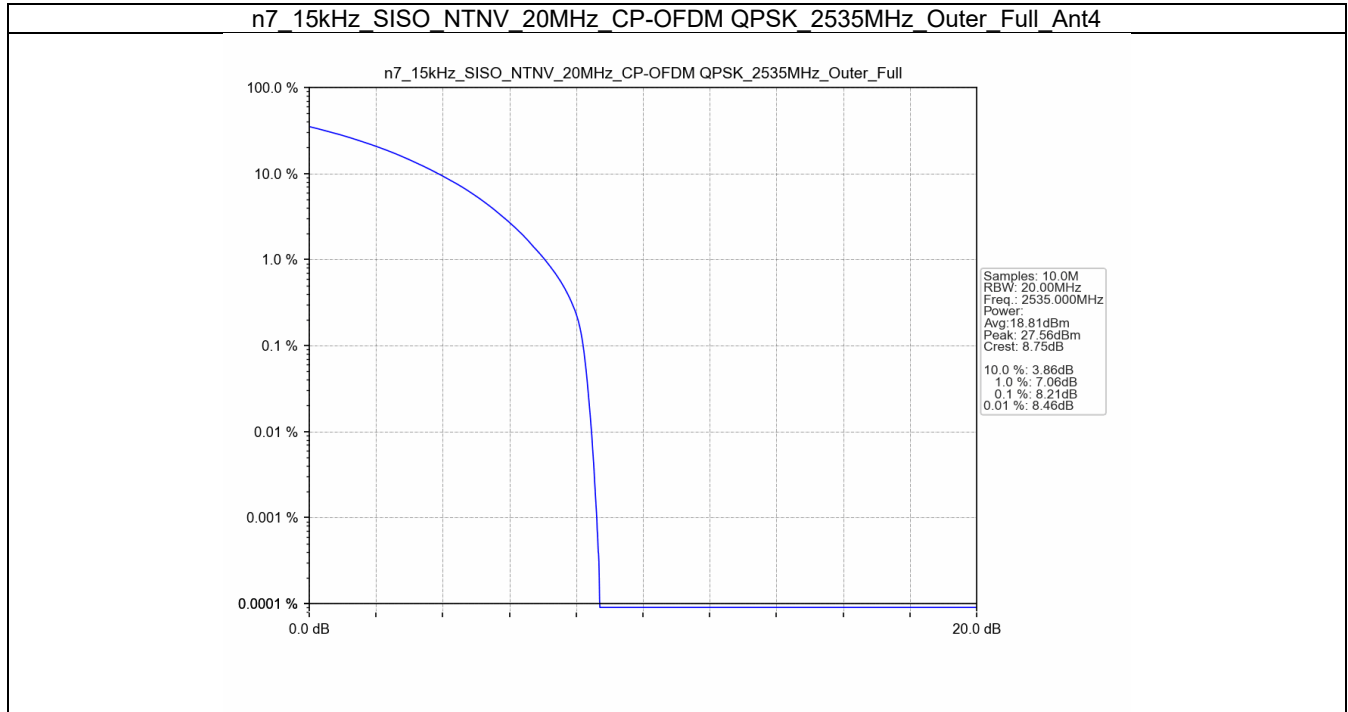
5G NR n7 SCS=15kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant4	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	4.61	/	/	<=13	Pass
DFT-s-OFDM QPSK	2535	Outer_Full	5.93	/	/	<=13	Pass
CP-OFDM QPSK	2535	Outer_Full	8.21	/	/	<=13	Pass

4.2 Test Graph

4.2.1 15_S_20M_NTNV







5. Spurious Emission

5.1 Test Result

5.1.1 15_S_5M_NTNV

5G NR n7 SCS=15kHz SISO 5MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant4	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2502.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	2535	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	2567.5	Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	2502.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	2535	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	2567.5	Outer_Full	Refer To Test Graph				Pass
CP-OFDM QPSK	2502.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	2535	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	2567.5	Outer_Full	Refer To Test Graph				Pass

5.1.2 15_S_15M_NTNV

5G NR n7 SCS=15kHz SISO 15MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant4	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2507.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	2535	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	2562.5	Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	2507.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	2535	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	2562.5	Outer_Full	Refer To Test Graph				Pass
CP-OFDM QPSK	2507.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	2535	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	2562.5	Outer_Full	Refer To Test Graph				Pass



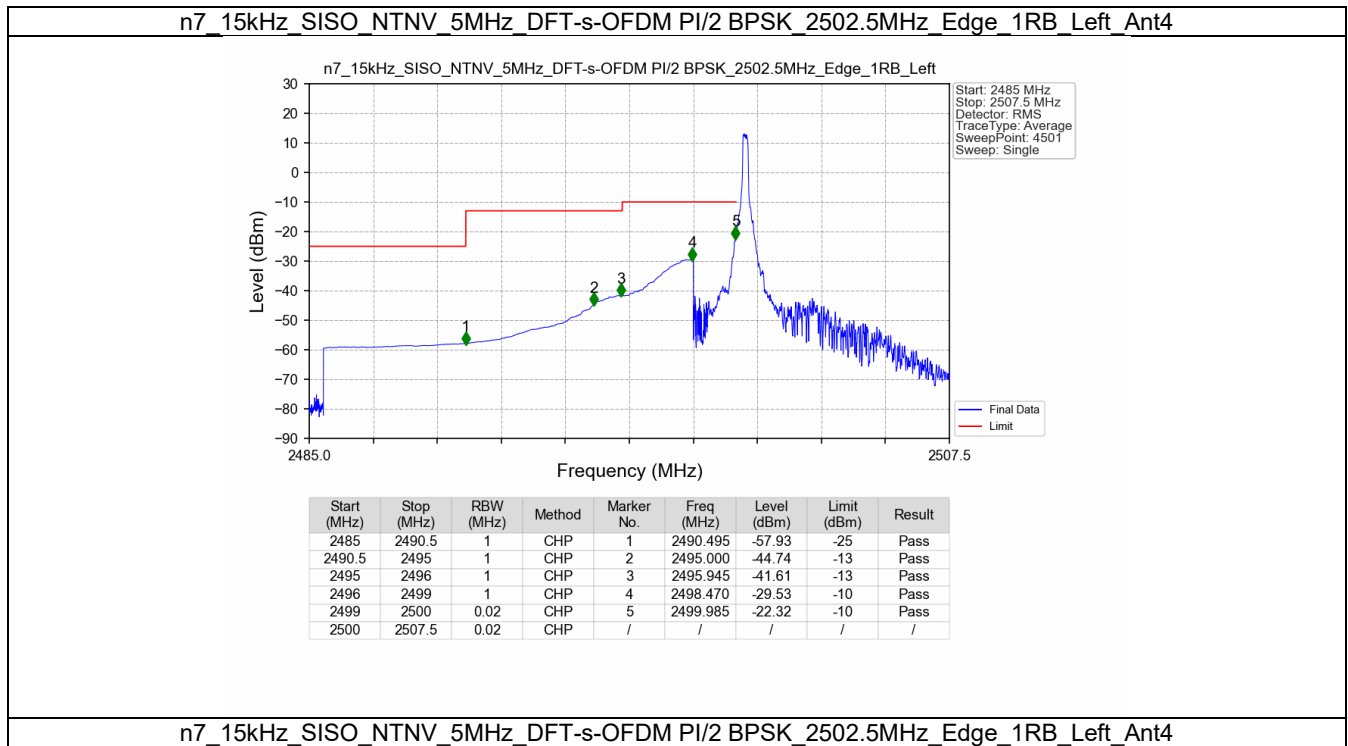
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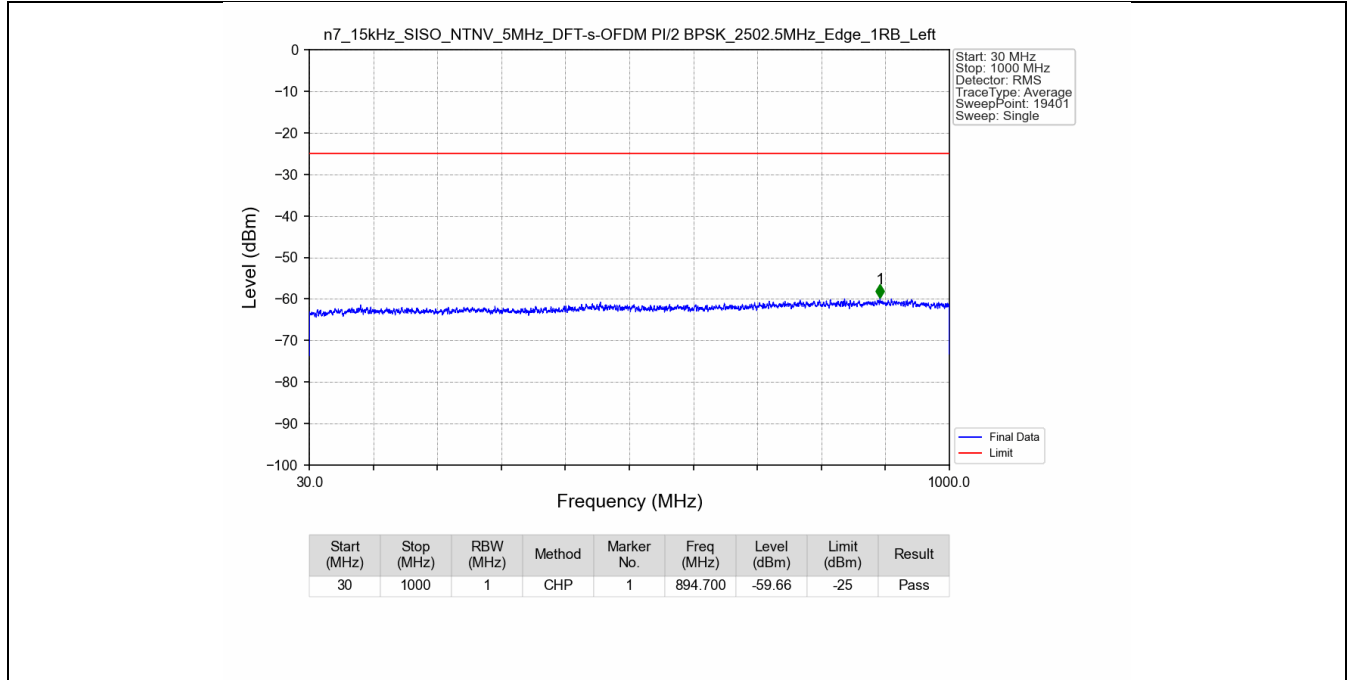
5.1.3 15_S_20M_NTNV

5G NR n7 SCS=15kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant4	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2510	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	2535	Edge_1RB_Left	Refer To Test Graph				Pass
		2560	Edge_1RB_Right	Refer To Test Graph			
	Outer_Full		Refer To Test Graph				Pass
	DFT-s-OFDM QPSK	2510	Edge_1RB_Left	Refer To Test Graph			
Outer_Full			Refer To Test Graph				Pass
2535		Edge_1RB_Left	Refer To Test Graph				Pass
		2560	Edge_1RB_Right	Refer To Test Graph			
Outer_Full			Refer To Test Graph				Pass
CP-OFDM QPSK		2510	Edge_1RB_Left	Refer To Test Graph			
	Outer_Full		Refer To Test Graph				Pass
	2535	Edge_1RB_Left	Refer To Test Graph				Pass
		2560	Edge_1RB_Right	Refer To Test Graph			
	Outer_Full		Refer To Test Graph				Pass

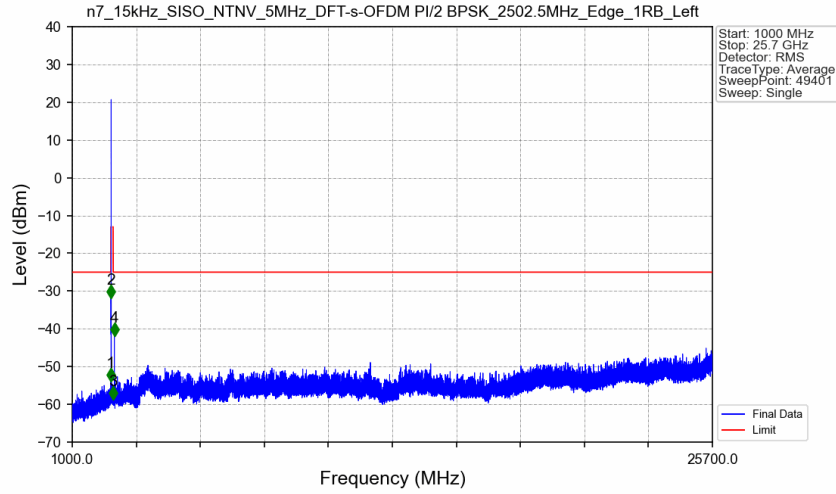
5.2 Test Graph

5.2.1 15_S_5M_NTNV



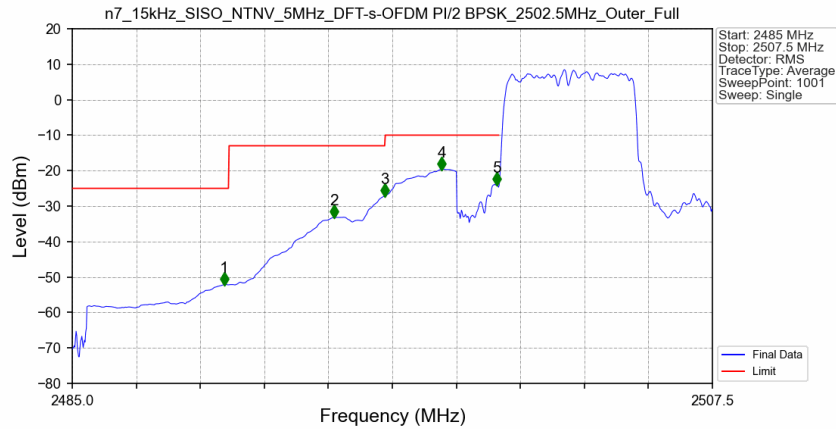


n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK 2502.5MHz_Edge_1RB_Left_Ant4



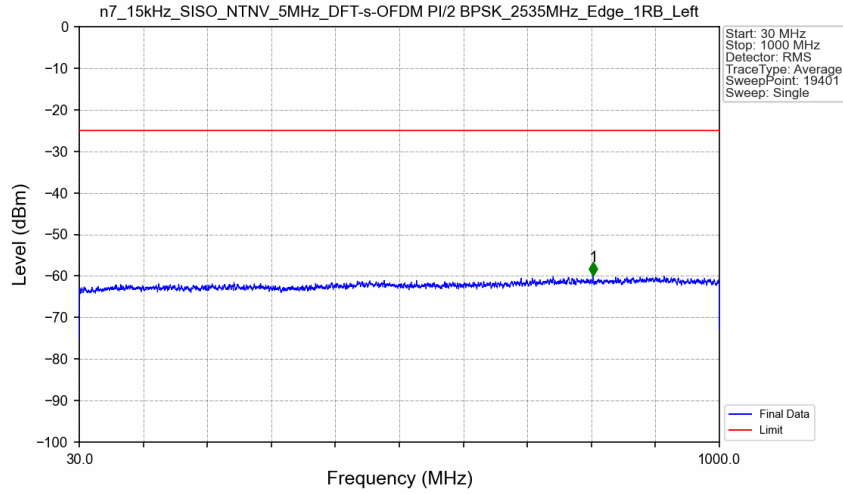
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490.5	1	/	1	2486.500	-53.92	-25	Pass
2490.5	2495	1	/	2	2494.500	-31.85	-13	Pass
2495	2575	1	/	/	/	/	/	/
2575	2576	1	/	3	2576.000	-58.63	-13	Pass
2576	25700	1	/	4	2624.000	-41.99	-25	Pass

n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK 2502.5MHz_Outer_Full_Ant4



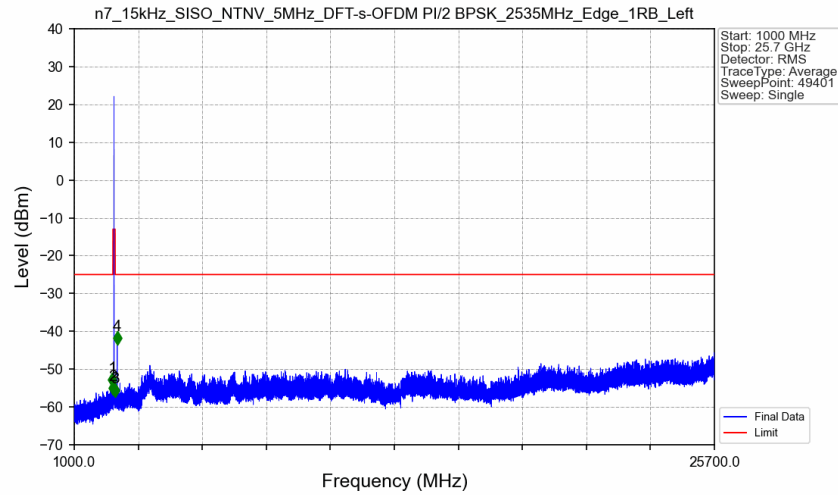
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.332	-52.12	-25	Pass
2490.5	2495	1	CHP	2	2494.202	-33.13	-13	Pass
2495	2496	1	CHP	3	2495.980	-27.11	-13	Pass
2496	2499	1	CHP	4	2497.983	-19.63	-10	Pass
2499	2500	0.132	CHP	5	2499.918	-23.88	-10	Pass
2500	2507.5	0.132	CHP	/	/	/	/	/

n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2535MHz_Edge_1RB_Left_Ant4



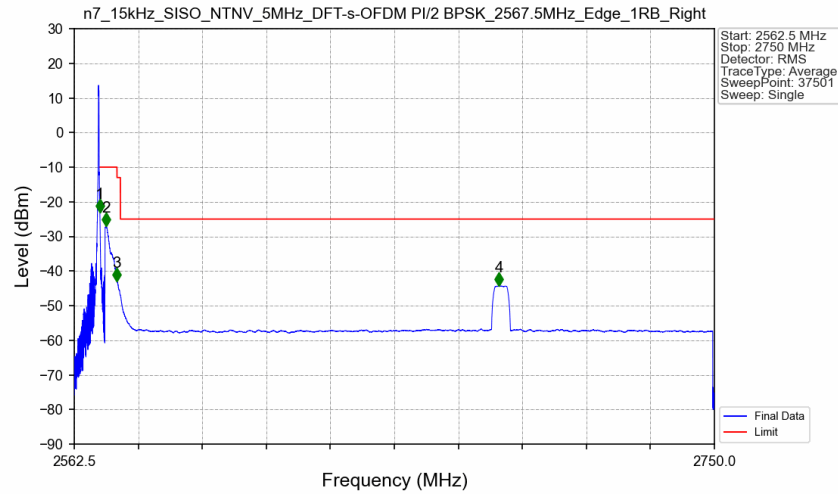
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	808.850	-59.83	-25	Pass

n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2535MHz_Edge_1RB_Left_Ant4



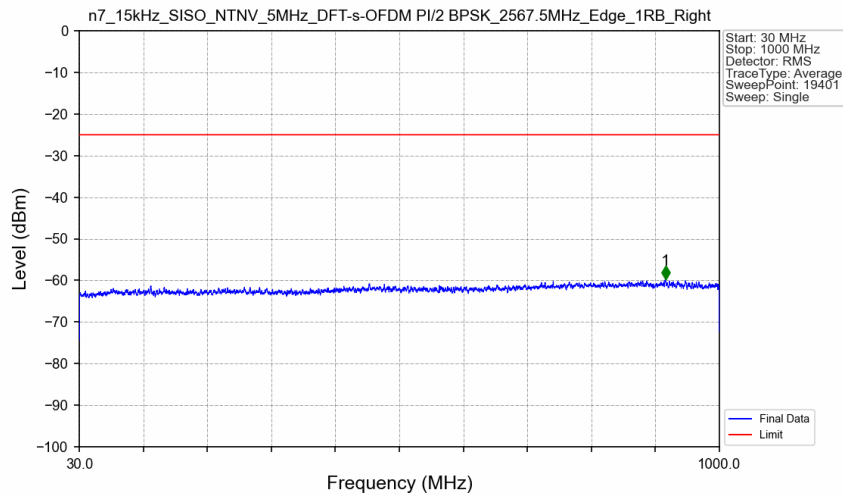
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490.5	1	/	1	2470.000	-54.42	-25	Pass
2490.5	2495	1	/	2	2492.500	-56.72	-13	Pass
2495	2575	1	/	/	/	/	/	/
2575	2576	1	/	3	2576.000	-57.39	-13	Pass
2576	25700	1	/	4	2655.500	-43.54	-25	Pass

n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2567.5MHz_Edge_1RB_Right_Ant4



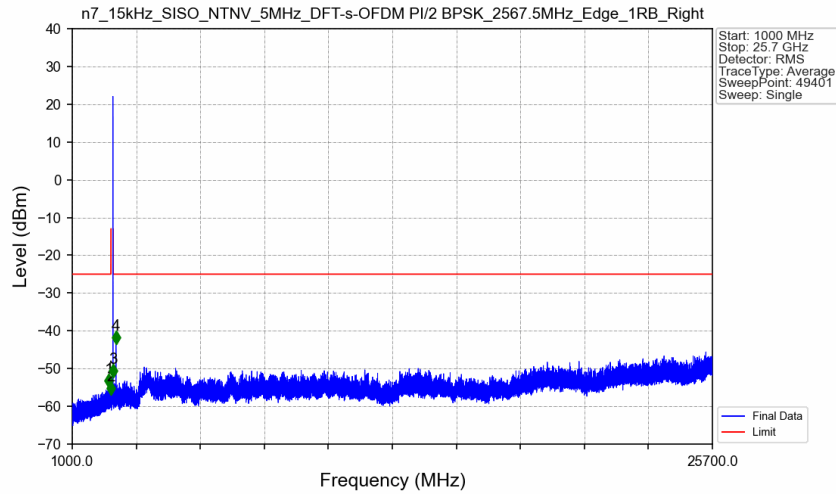
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2562.5	2570	0.02	CHP	/	/	/	/	/
2570	2571	0.02	CHP	1	2570.005	-23.14	-10	Pass
2571	2575	1	CHP	2	2571.795	-26.95	-10	Pass
2575	2576	1	CHP	3	2575.005	-42.86	-13	Pass
2576	2750	1	CHP	4	2686.940	-44.32	-25	Pass

n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2567.5MHz_Edge_1RB_Right_Ant4



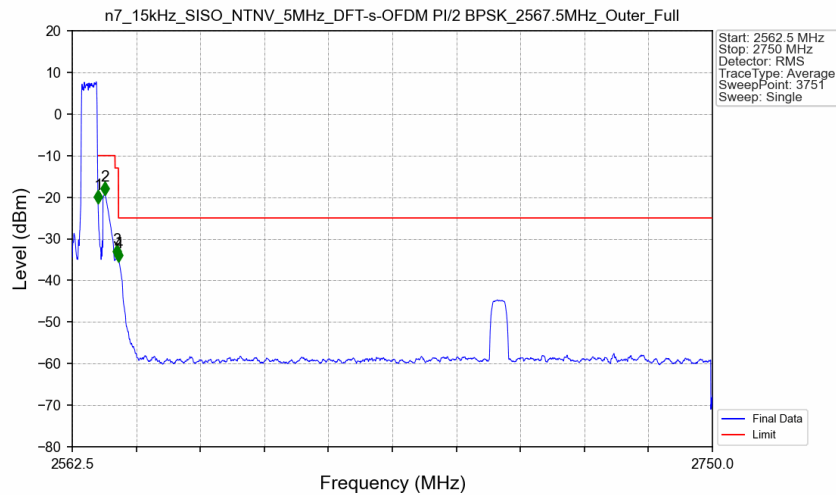
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	918.300	-59.67	-25	Pass

n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2567.5MHz_Edge_1RB_Right_Ant4



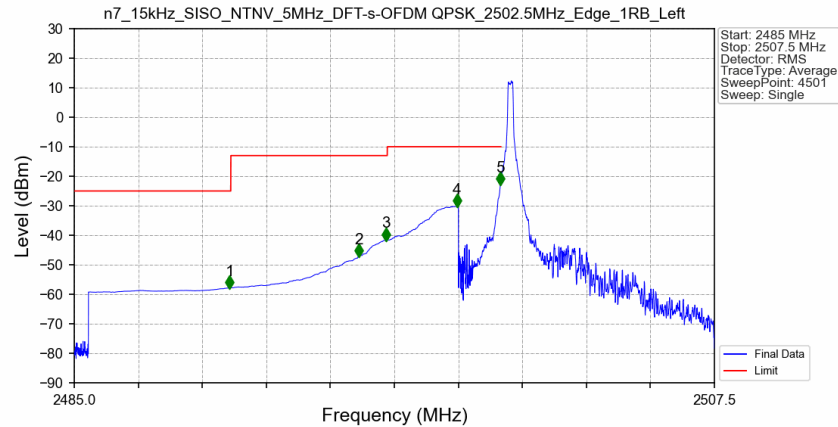
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490.5	1	/	1	2407.500	-54.94	-25	Pass
2490.5	2495	1	/	2	2491.000	-56.97	-13	Pass
2495	2575	1	/	/	/	/	/	/
2575	2576	1	/	3	2576.000	-52.38	-13	Pass
2576	25700	1	/	4	2687.000	-43.45	-25	Pass

n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2567.5MHz_Outer_Full_Ant4

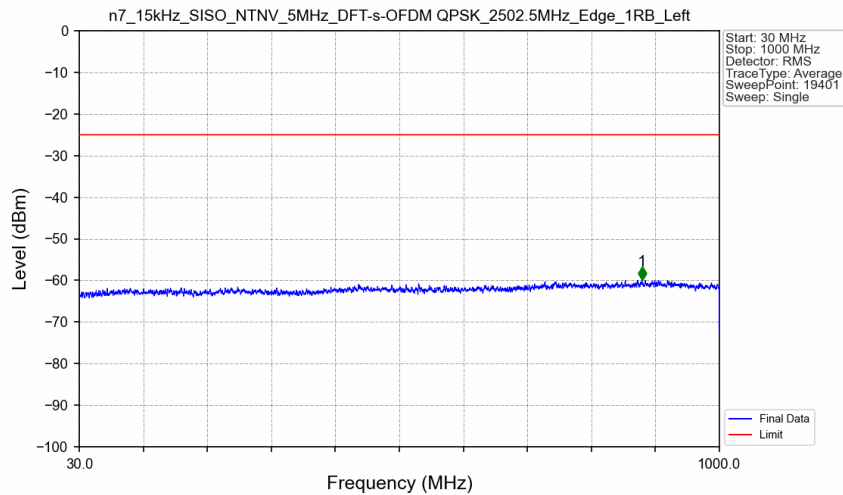


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2562.5	2570	0.132	CHP	/	/	/	/	/
2570	2571	0.132	CHP	1	2570.050	-21.50	-10	Pass
2571	2575	1	CHP	2	2572.000	-19.39	-10	Pass
2575	2576	1	CHP	3	2575.550	-34.53	-13	Pass
2576	2750	1	CHP	4	2576.050	-35.42	-25	Pass

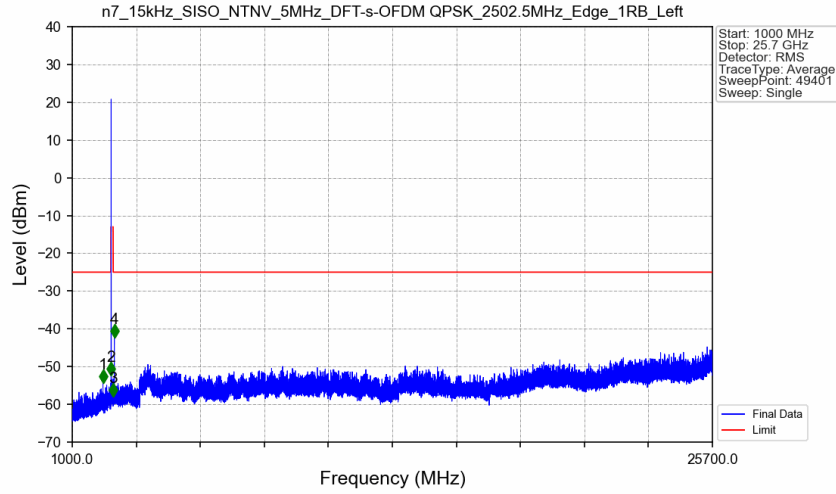
n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2502.5MHz_Edge_1RB_Left_Ant4



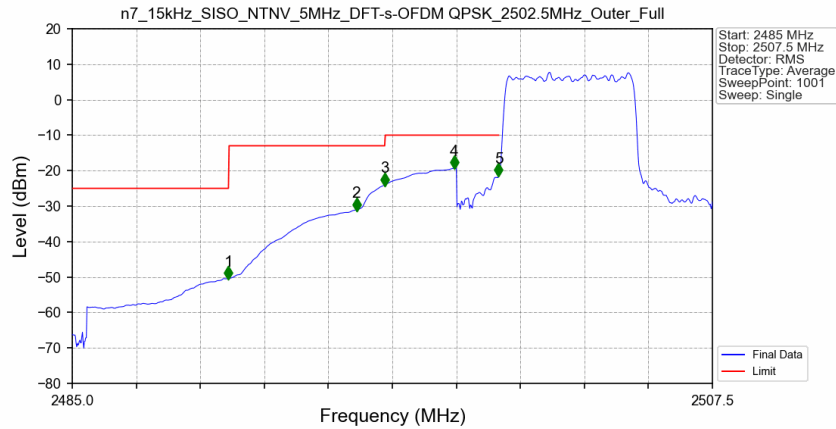
n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2502.5MHz_Edge_1RB_Left_Ant4



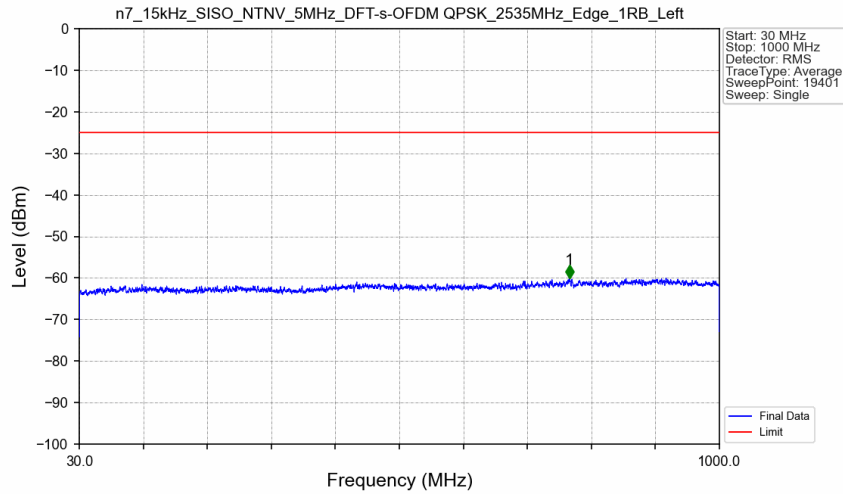
n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_2502.5MHz_Edge_1RB_Left_Ant4



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_2502.5MHz_Outer_Full_Ant4

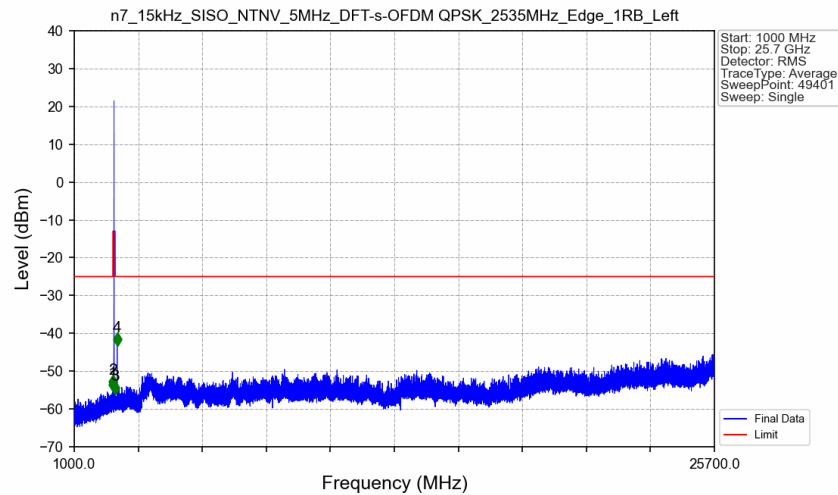


n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_2535MHz_Edge_1RB_Left_Ant4



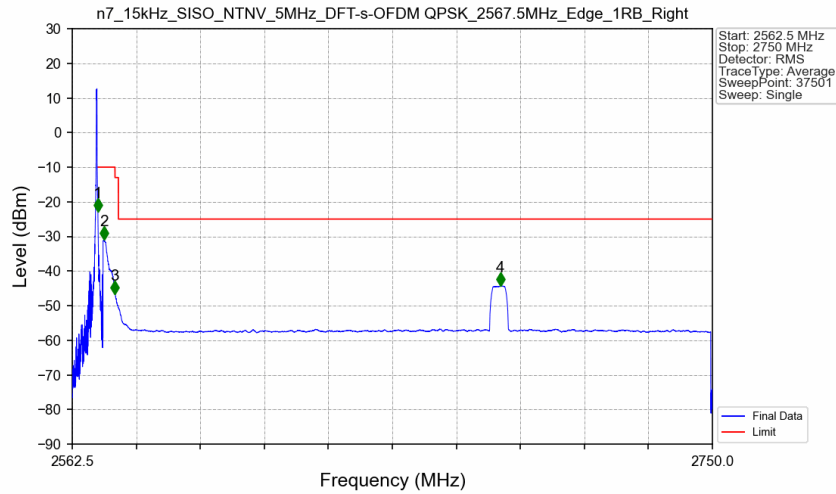
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	772.650	-60.02	-25	Pass

n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_2535MHz_Edge_1RB_Left_Ant4

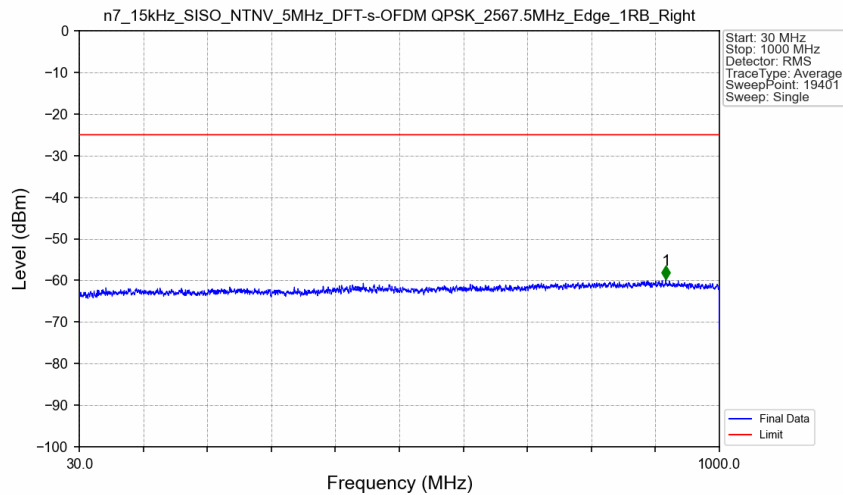


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490.5	1	/	1	2486.000	-55.27	-25	Pass
2490.5	2495	1	/	2	2492.000	-54.48	-13	Pass
2495	2575	1	/	/	/	/	/	/
2575	2576	1	/	3	2576.000	-56.14	-13	Pass
2576	25700	1	/	4	2655.000	-43.38	-25	Pass

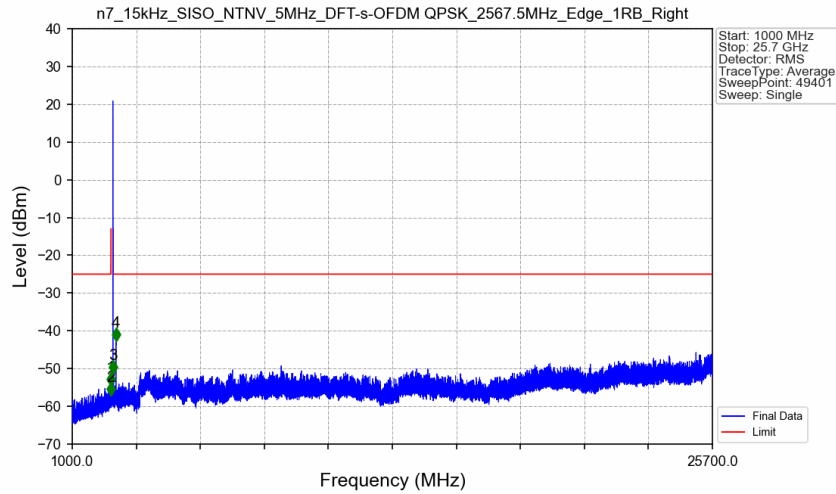
n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_2567.5MHz_Edge_1RB_Right_Ant4



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_2567.5MHz_Edge_1RB_Right_Ant4

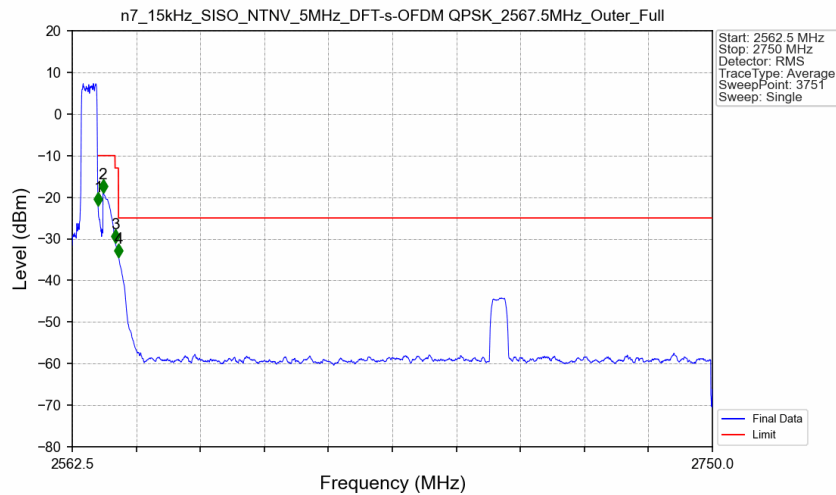


n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_2567.5MHz_Edge_1RB_Right_Ant4



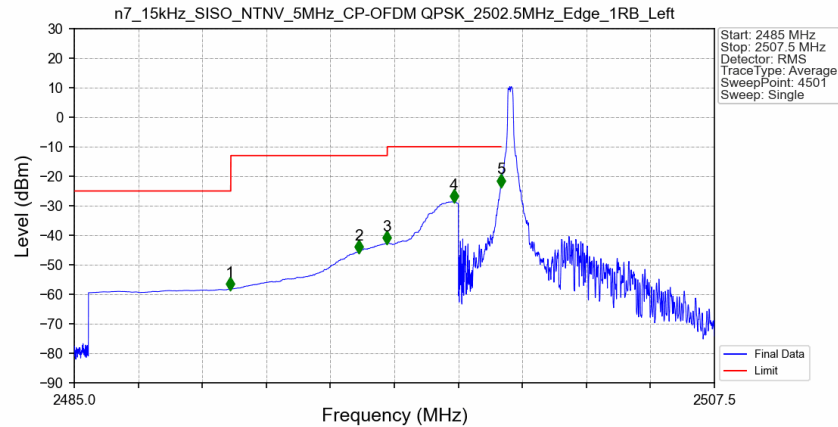
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490.5	1	/	1	2477.000	-54.58	-25	Pass
2490.5	2495	1	/	2	2492.500	-57.17	-13	Pass
2495	2575	1	/	/	/	/	/	/
2575	2576	1	/	3	2575.500	-51.24	-13	Pass
2576	25700	1	/	4	2687.500	-42.66	-25	Pass

n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_2567.5MHz_Outer_Full_Ant4



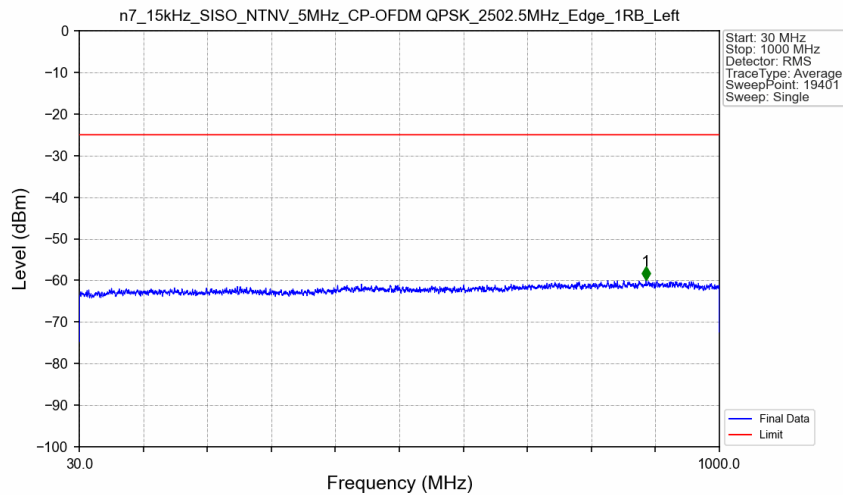
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2562.5	2570	0.132	CHP	/	/	/	/	/
2570	2571	0.132	CHP	1	2570.050	-21.99	-10	Pass
2571	2575	1	CHP	2	2571.500	-18.92	-10	Pass
2575	2576	1	CHP	3	2575.050	-30.91	-13	Pass
2576	2750	1	CHP	4	2576.050	-34.41	-25	Pass

n7_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2502.5MHz_Edge_1RB_Left_Ant4



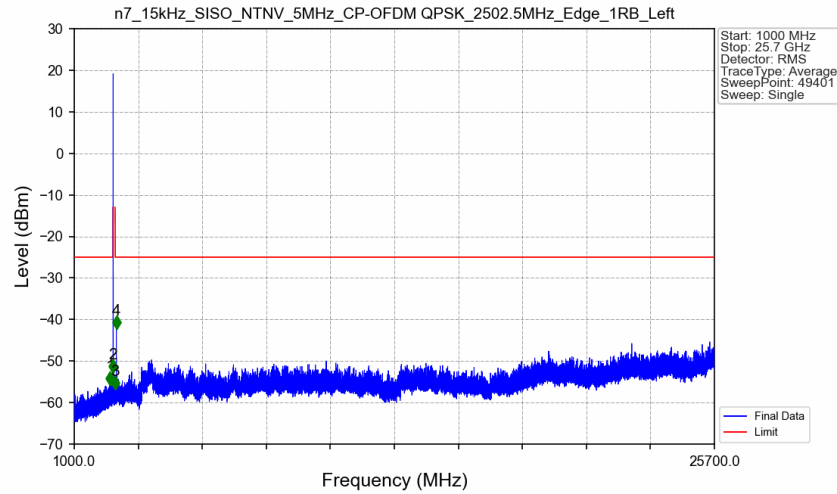
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.475	-58.27	-25	Pass
2490.5	2495	1	CHP	2	2495.000	-45.70	-13	Pass
2495	2496	1	CHP	3	2495.980	-42.71	-13	Pass
2496	2499	1	CHP	4	2498.340	-28.61	-10	Pass
2499	2500	0.02	CHP	5	2499.995	-23.37	-10	Pass
2500	2507.5	0.02	CHP	/	/	/	/	/

n7_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2502.5MHz_Edge_1RB_Left_Ant4



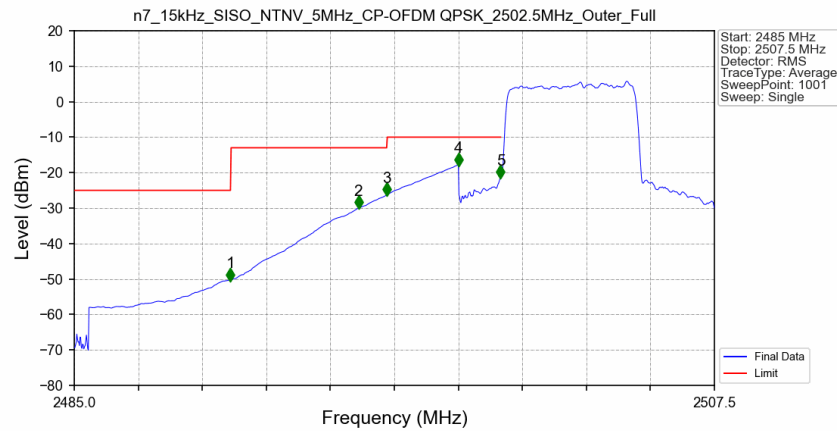
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	888.450	-59.82	-25	Pass

n7_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2502.5MHz_Edge_1RB_Left_Ant4



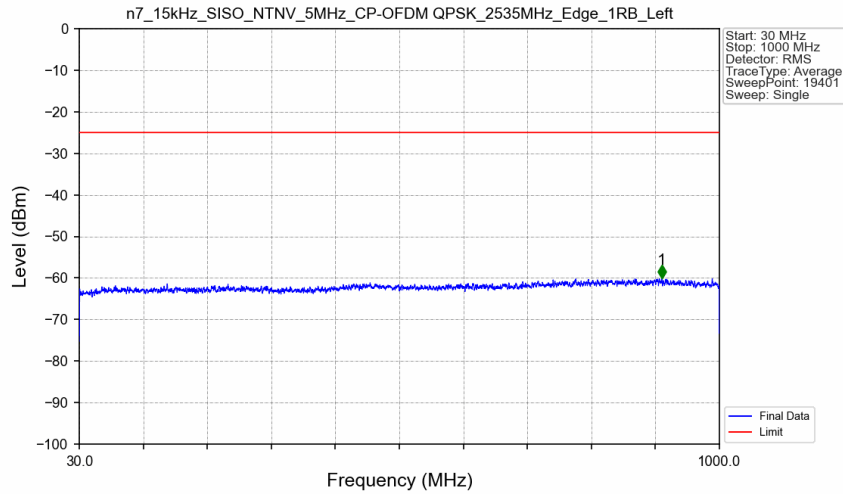
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490.5	1	/	1	2375.500	-55.65	-25	Pass
2490.5	2495	1	/	2	2494.500	-52.90	-13	Pass
2495	2575	1	/	/	/	/	/	/
2575	2576	1	/	3	2576.000	-56.82	-13	Pass
2576	25700	1	/	4	2623.500	-42.32	-25	Pass

n7_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2502.5MHz_Outer_Full_Ant4



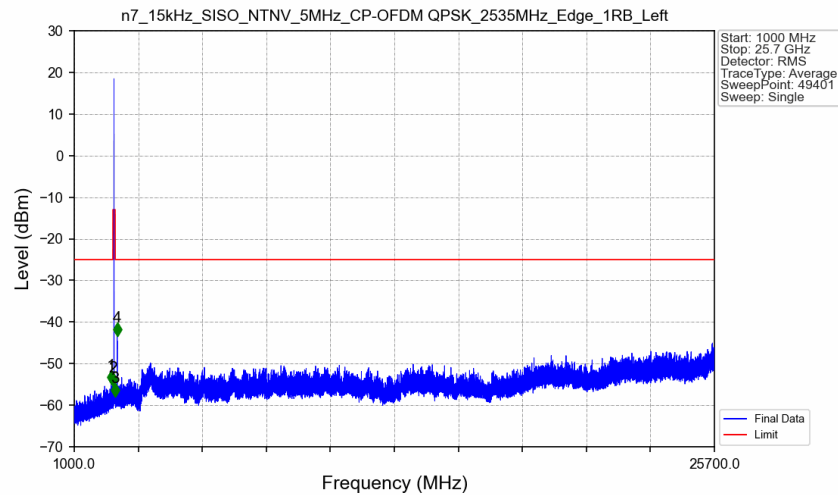
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.490	-50.32	-25	Pass
2490.5	2495	1	CHP	2	2494.990	-29.96	-13	Pass
2495	2496	1	CHP	3	2495.980	-26.34	-13	Pass
2496	2499	1	CHP	4	2498.500	-17.82	-10	Pass
2499	2500	0.132	CHP	5	2499.985	-21.37	-10	Pass
2500	2507.5	0.132	CHP	/	/	/	/	/

n7_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_2535MHz_Edge_1RB_Left_Ant4



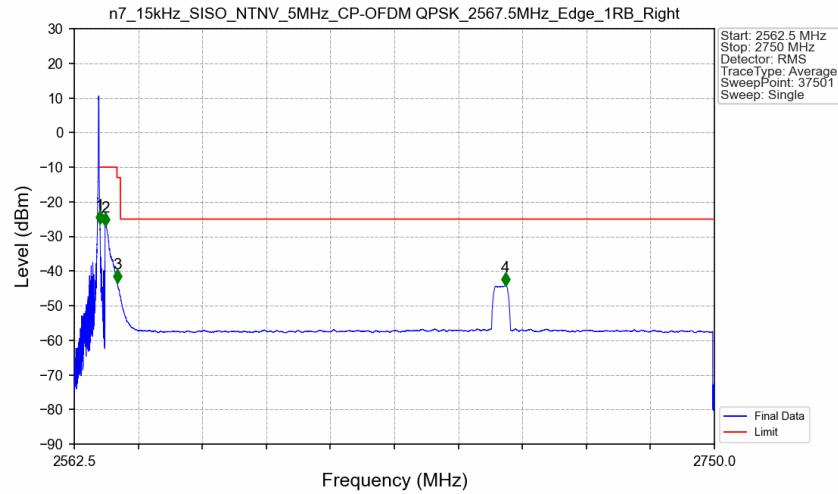
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	912.850	-60.10	-25	Pass

n7_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_2535MHz_Edge_1RB_Left_Ant4



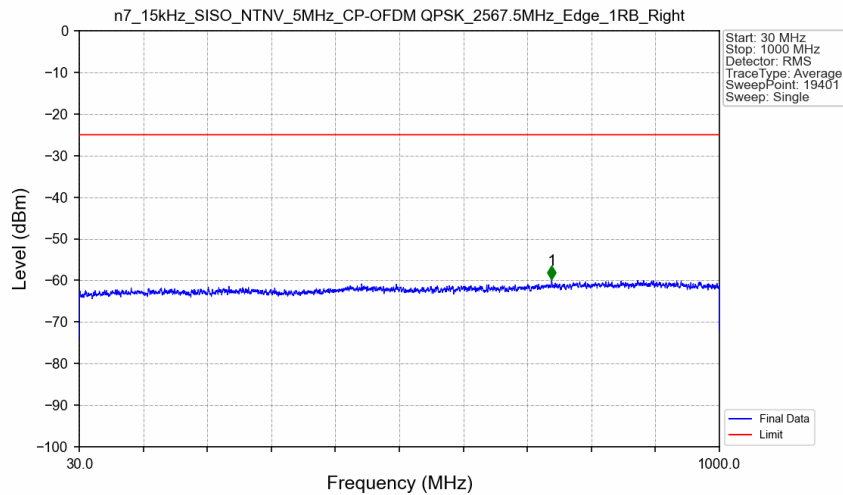
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490.5	1	/	1	2423.000	-54.88	-25	Pass
2490.5	2495	1	/	2	2491.000	-55.44	-13	Pass
2495	2575	1	/	/	/	/	/	/
2575	2576	1	/	3	2576.000	-57.98	-13	Pass
2576	25700	1	/	4	2654.000	-43.43	-25	Pass

n7_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2567.5MHz_Edge_1RB_Right_Ant4



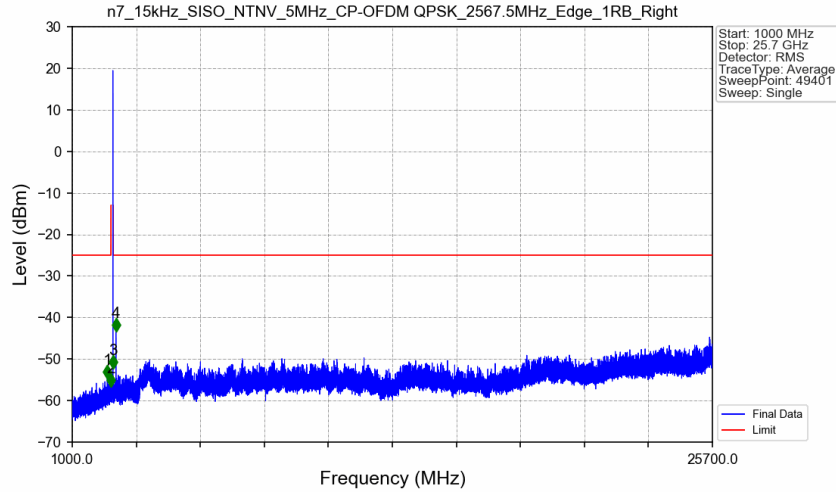
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2562.5	2570	0.02	CHP	/	/	/	/	/
2570	2571	0.02	CHP	1	2570.005	-26.25	-10	Pass
2571	2575	1	CHP	2	2571.670	-26.95	-10	Pass
2575	2576	1	CHP	3	2575.170	-43.41	-13	Pass
2576	2750	1	CHP	4	2688.835	-44.18	-25	Pass

n7_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2567.5MHz_Edge_1RB_Right_Ant4



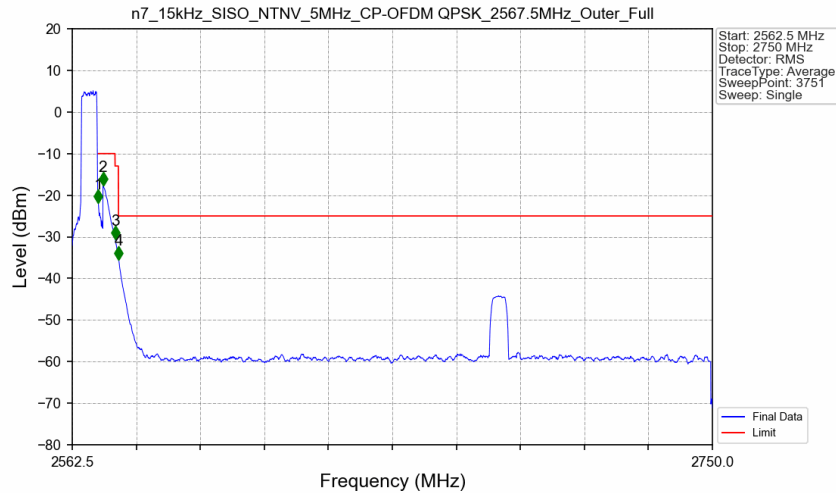
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	745.750	-59.72	-25	Pass

n7_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_2567.5MHz_Edge_1RB_Right_Ant4



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490.5	1	/	1	2349.500	-54.61	-25	Pass
2490.5	2495	1	/	2	2494.500	-56.57	-13	Pass
2495	2575	1	/	/	/	/	/	/
2575	2576	1	/	3	2575.500	-52.23	-13	Pass
2576	25700	1	/	4	2687.000	-43.29	-25	Pass

n7_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_2567.5MHz_Outer_Full_Ant4



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2562.5	2570	0.132	CHP	/	/	/	/	/
2570	2571	0.132	CHP	1	2570.050	-21.79	-10	Pass
2571	2575	1	CHP	2	2571.500	-17.68	-10	Pass
2575	2576	1	CHP	3	2575.050	-30.60	-13	Pass
2576	2750	1	CHP	4	2576.050	-35.41	-25	Pass

5.2.2 15_S_15M_NTNV

