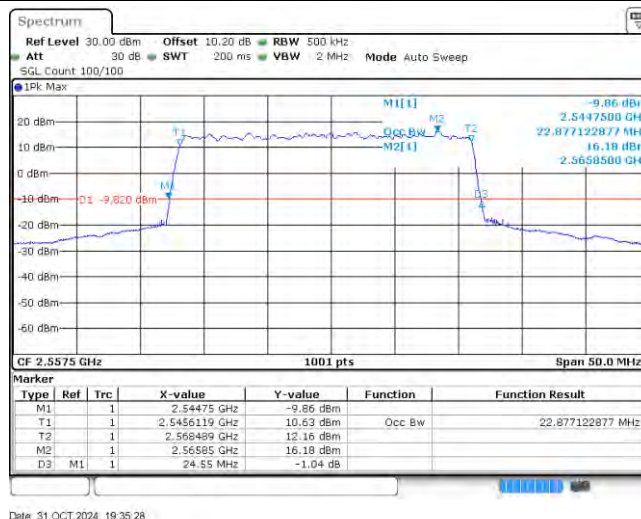
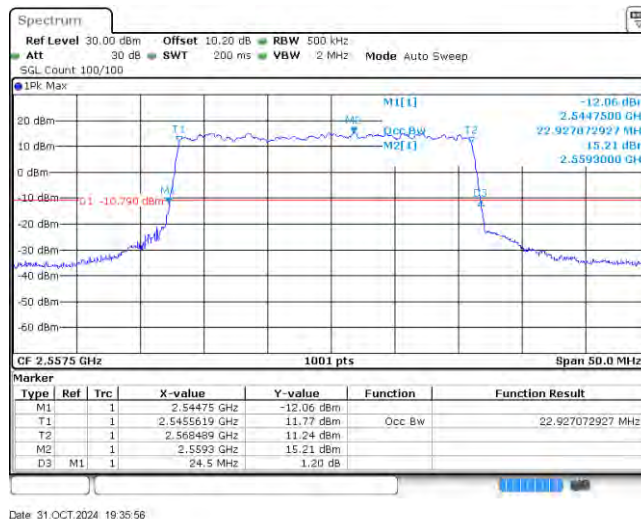
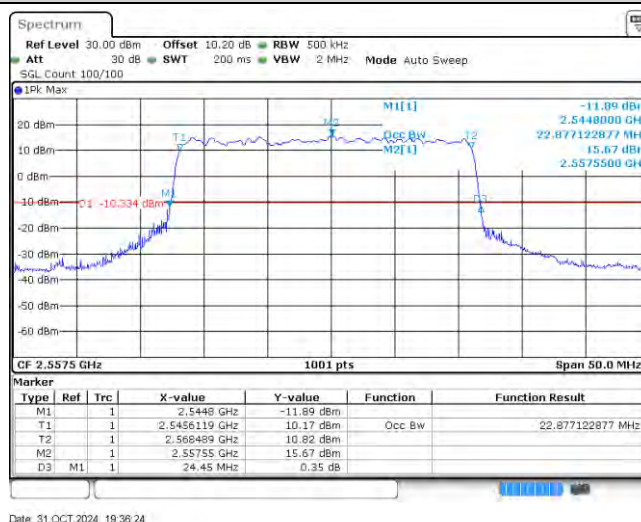




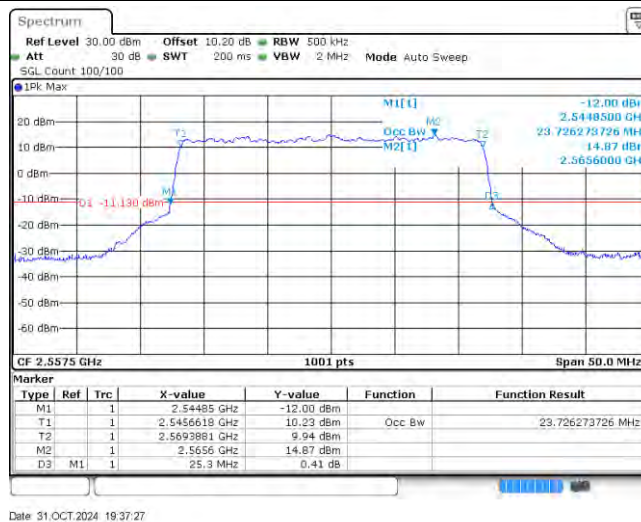
1-N7-PC3-15-25-H-3-DFT-16QAM-Outer_Full-128@0-Ant5-22.877-24.550-≤25-PASS



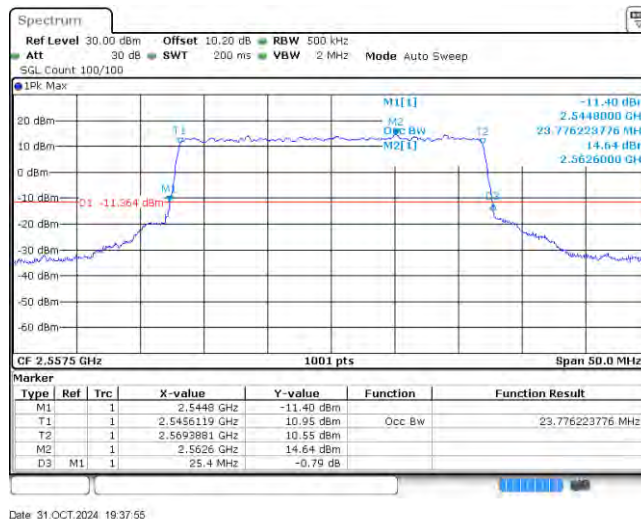
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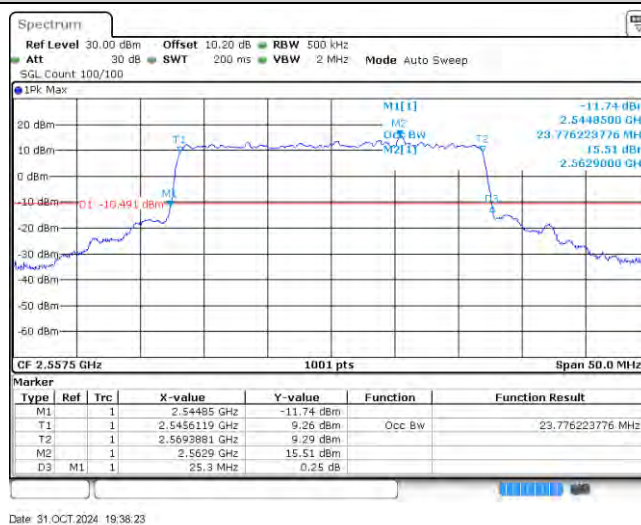
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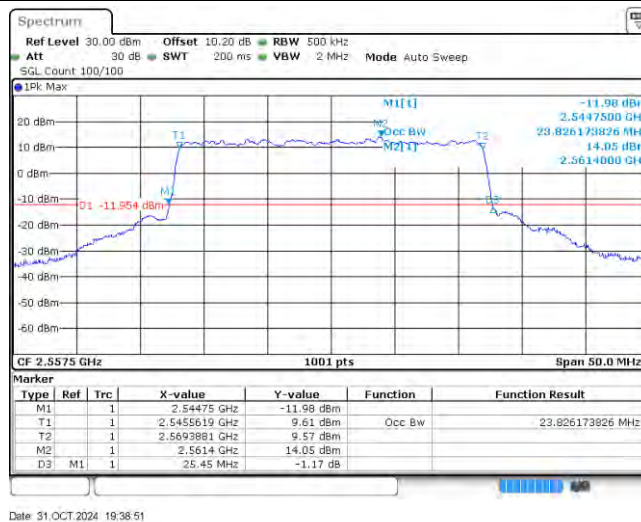
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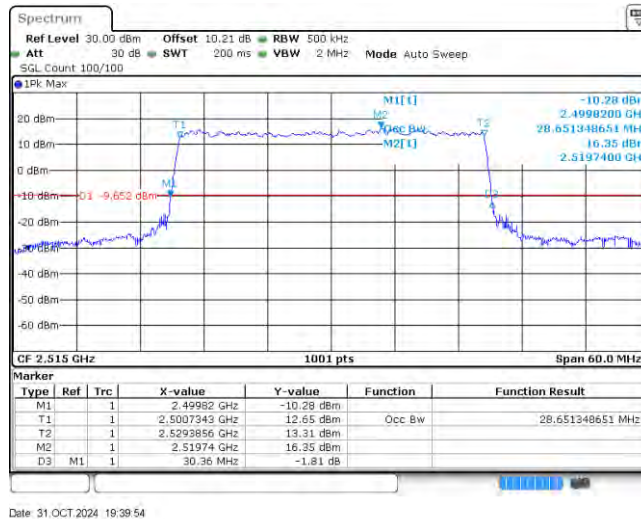
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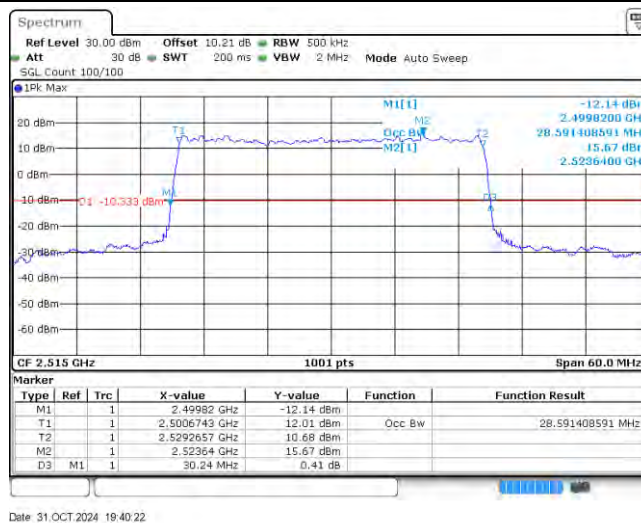
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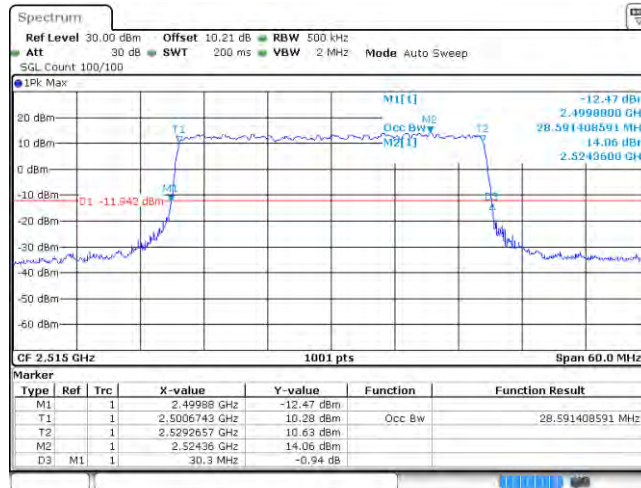
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1-N7-PC3-15-30-L-1-DFT-QPSK-Out_Full-160@0-Ant5-28.651-30.360-≤30-PASS

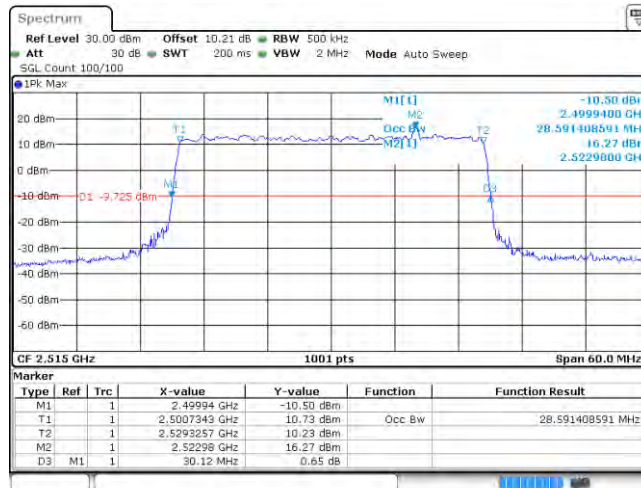


1-N7-PC3-15-30-L-3-DFT-16QAM-Out_Full-160@0-Ant5-28.591-30.240-≤30-PASS



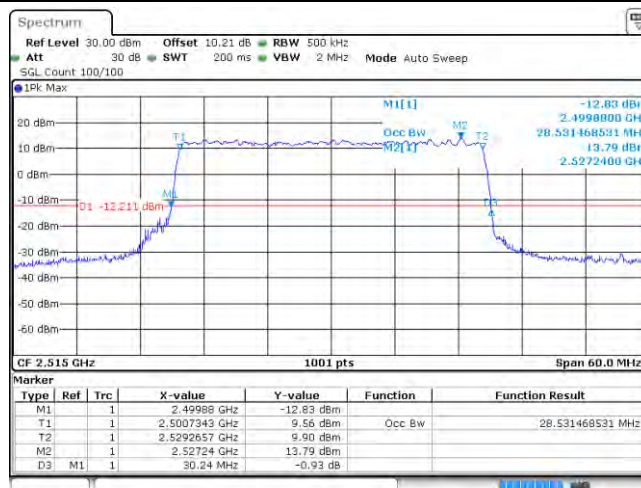
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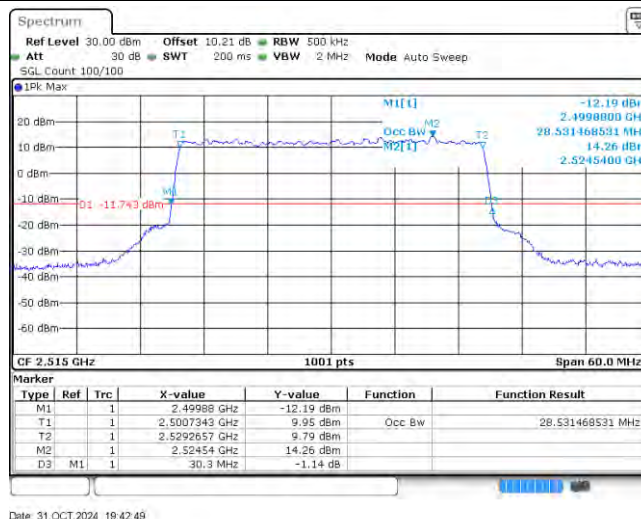
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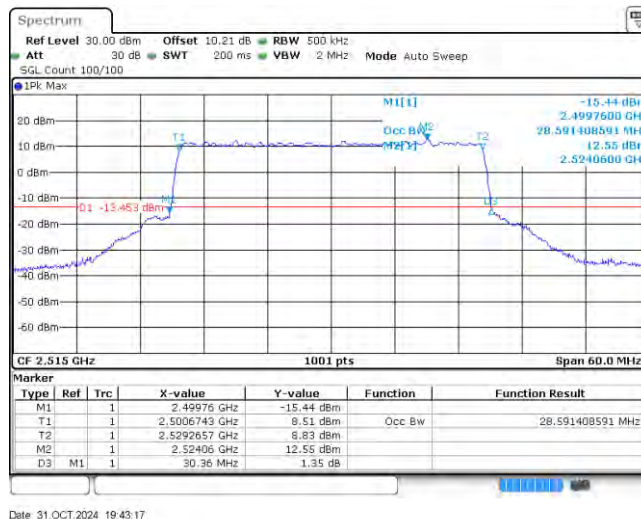


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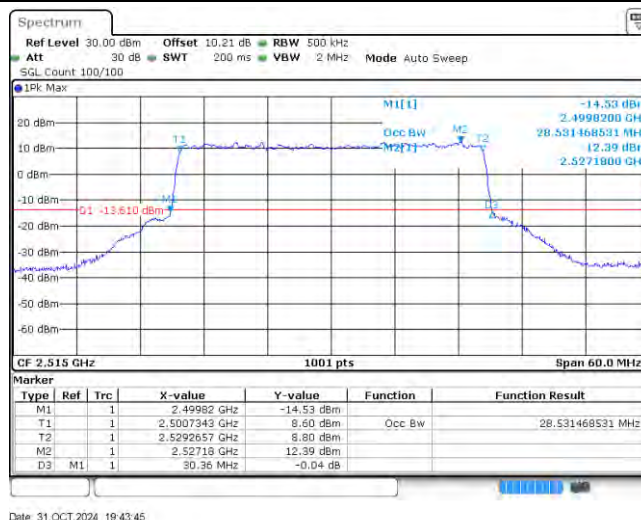
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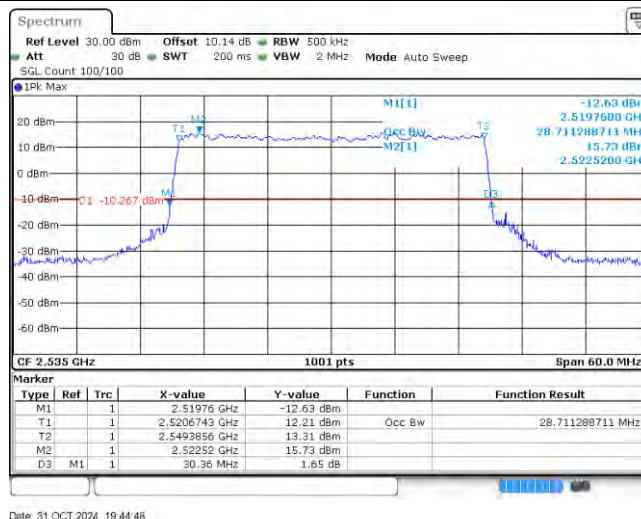
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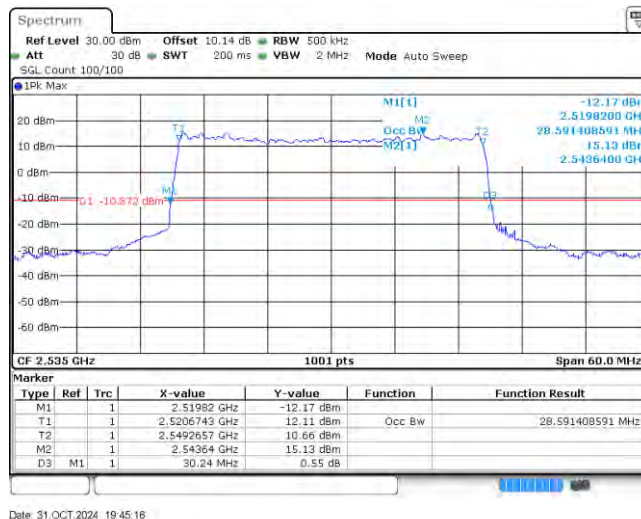
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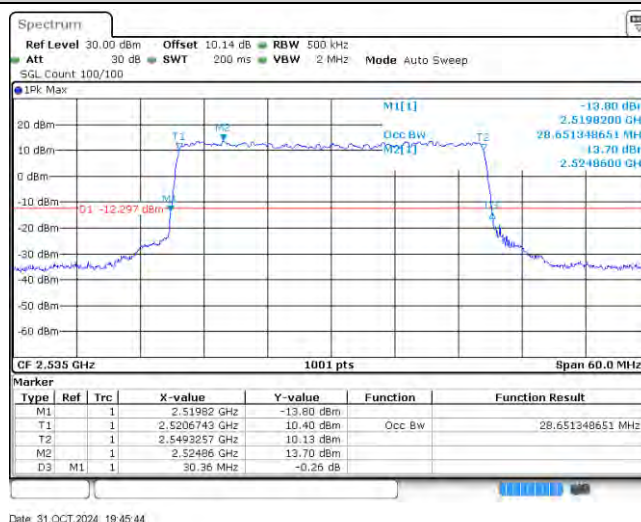
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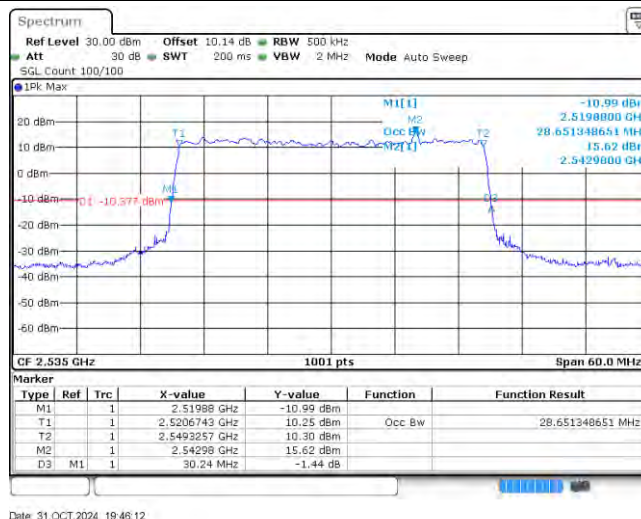
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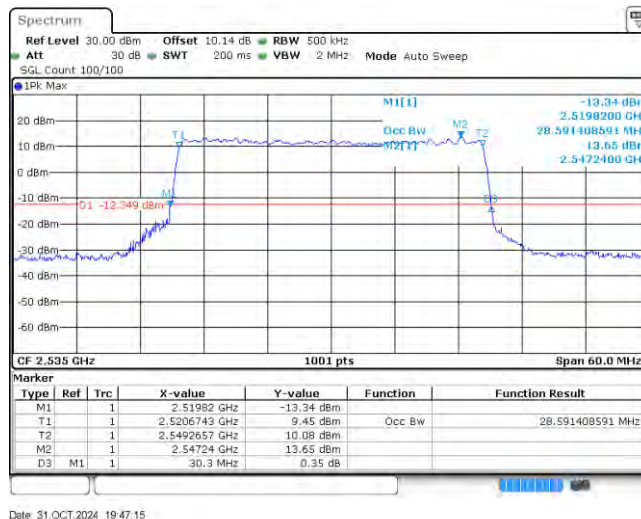
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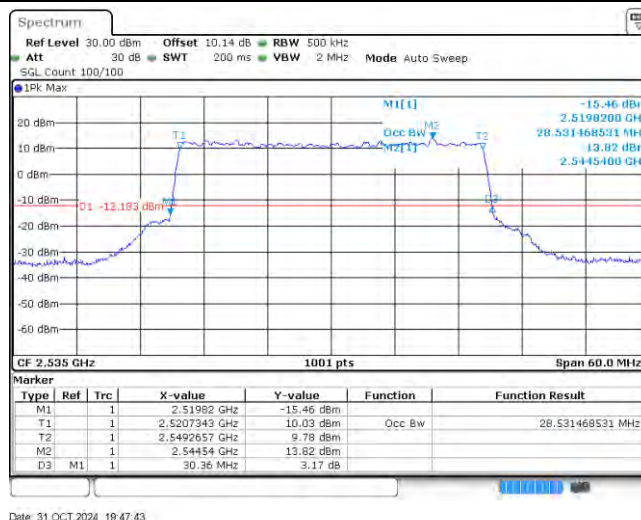
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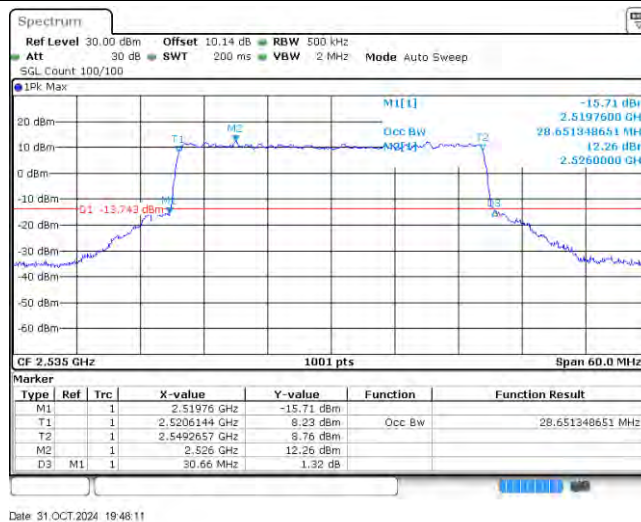
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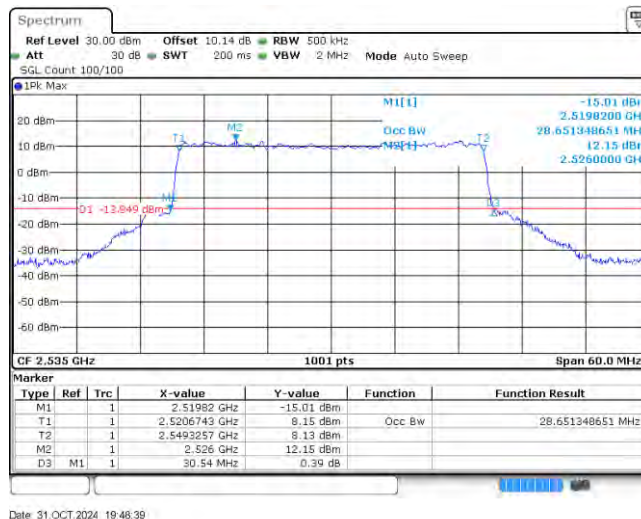
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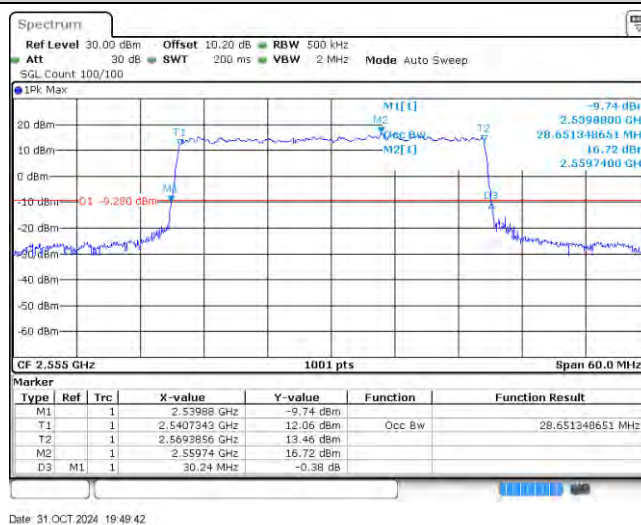
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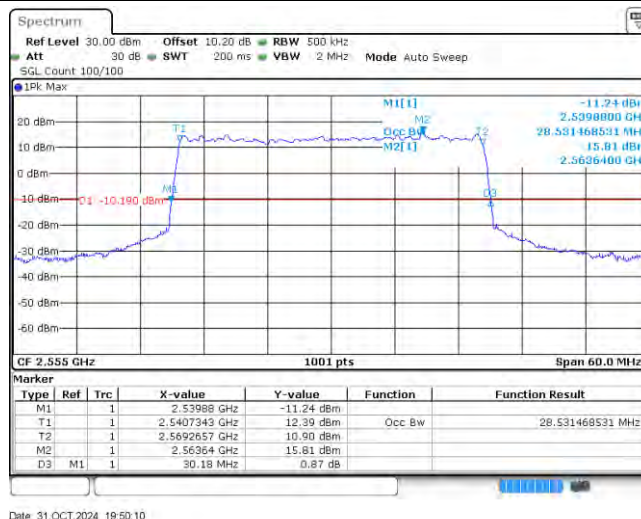
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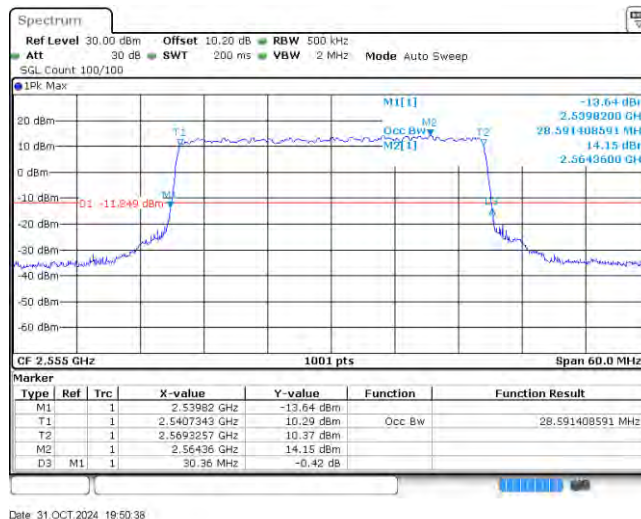
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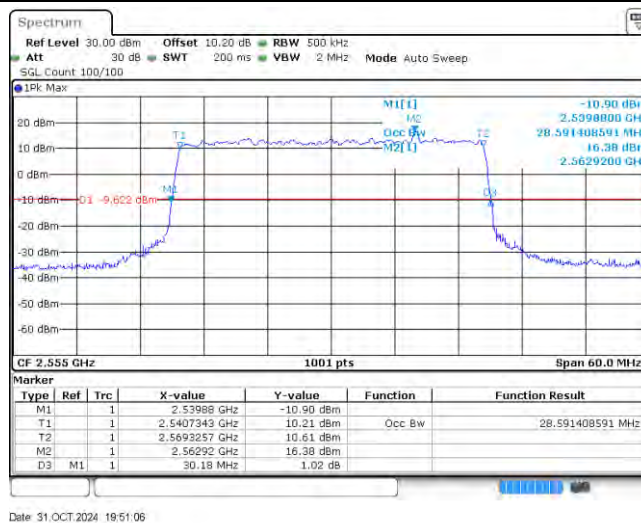
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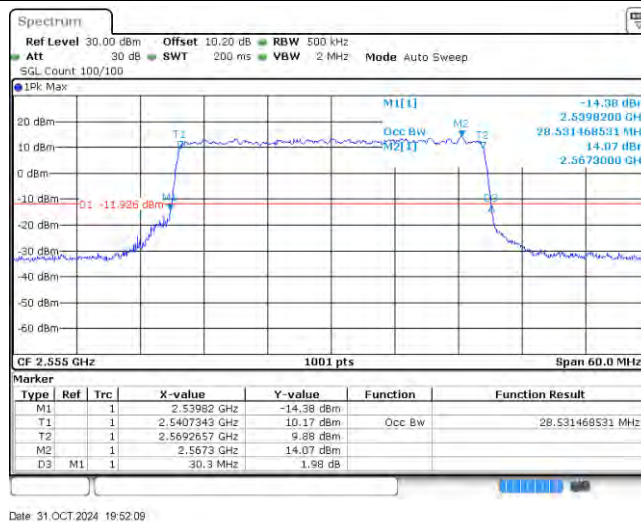
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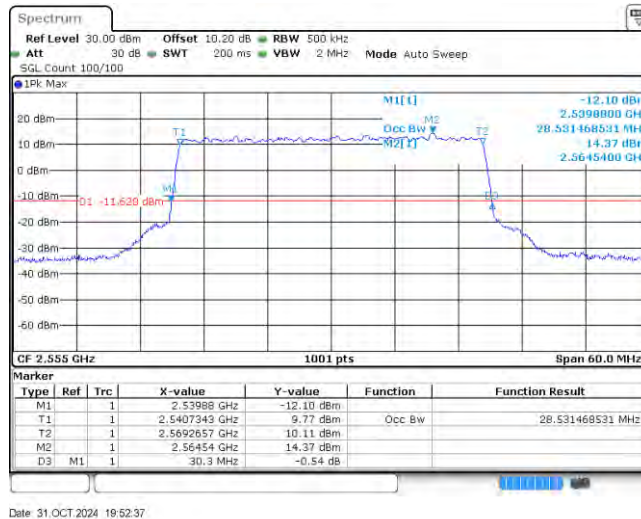
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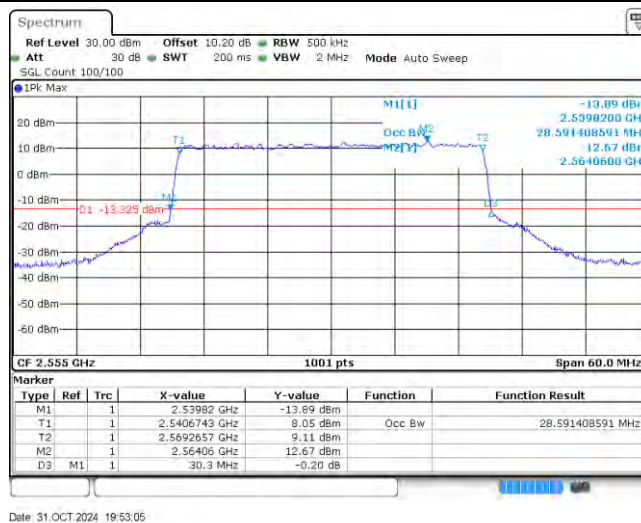
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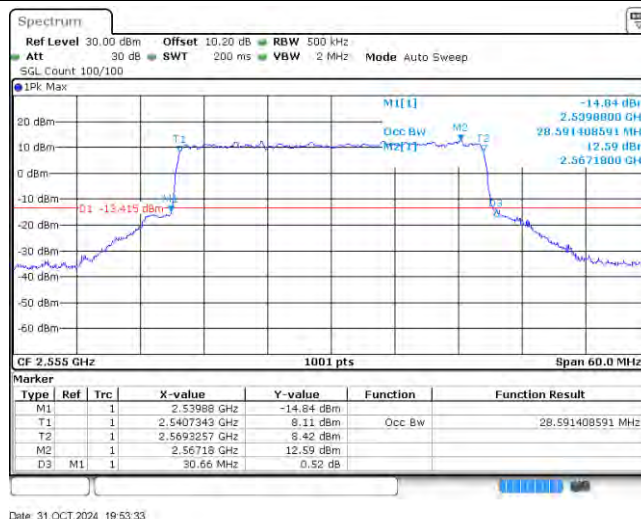
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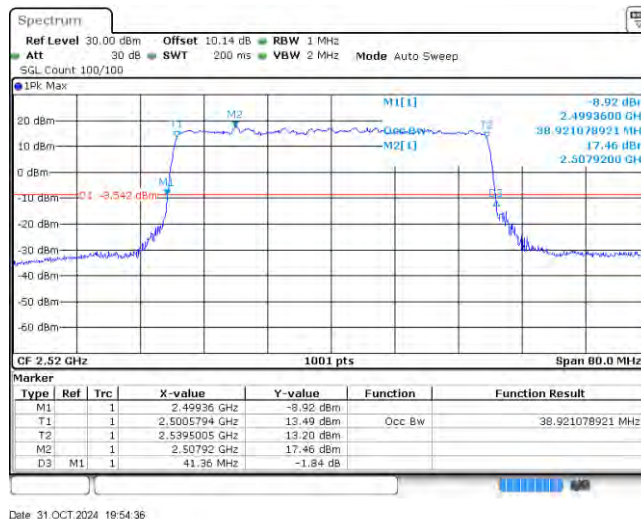
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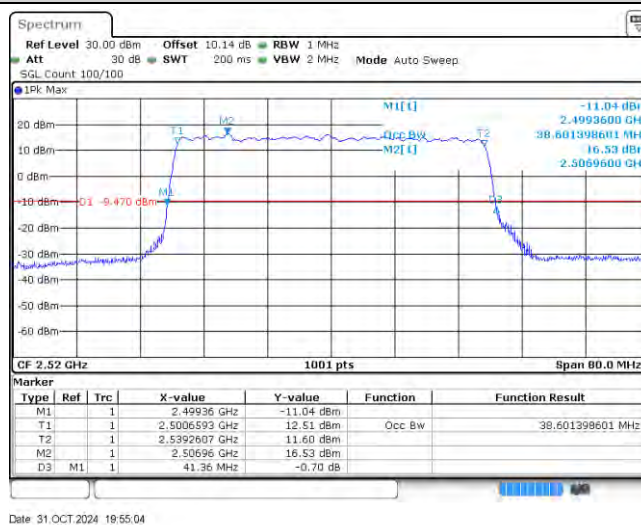
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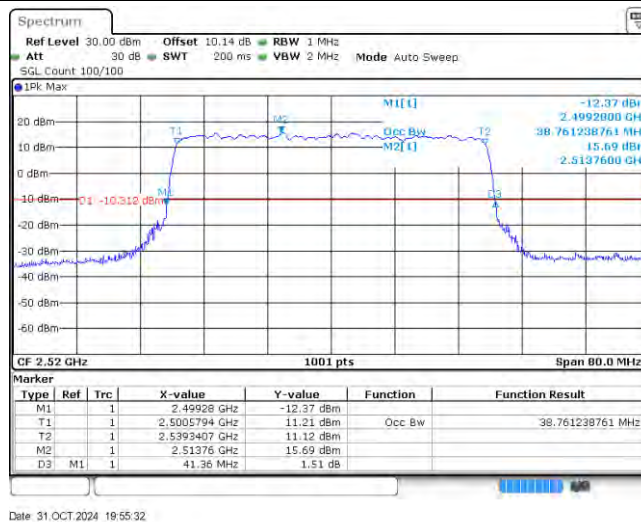
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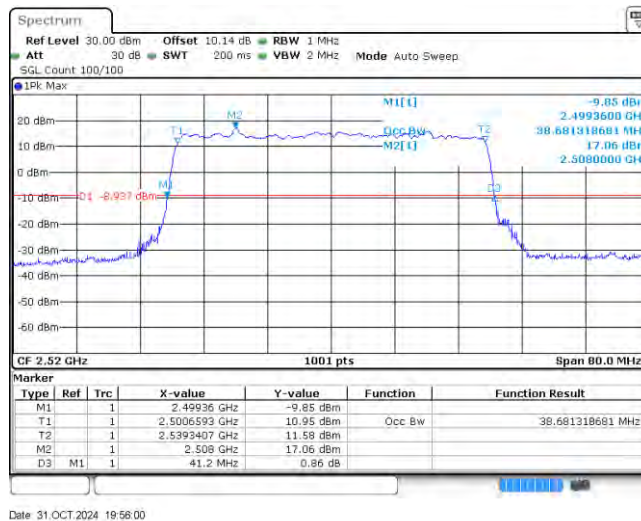
1-N7-PC3-15-40-L-1-DFT-QPSK-Out_Full-216@0-Ant5-38.921-41.360-≤40-PASS



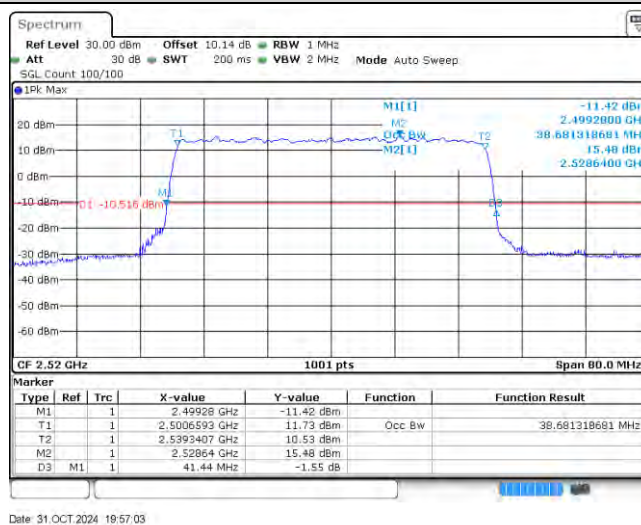
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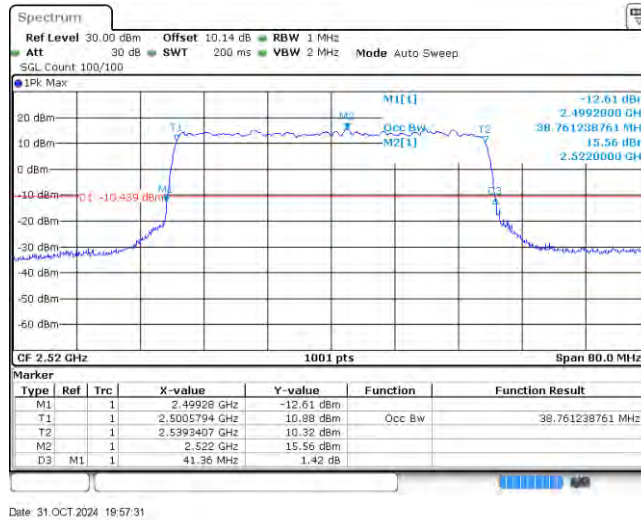
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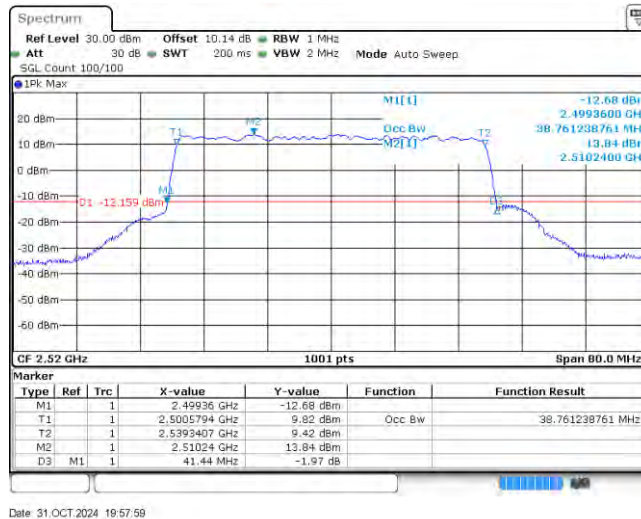
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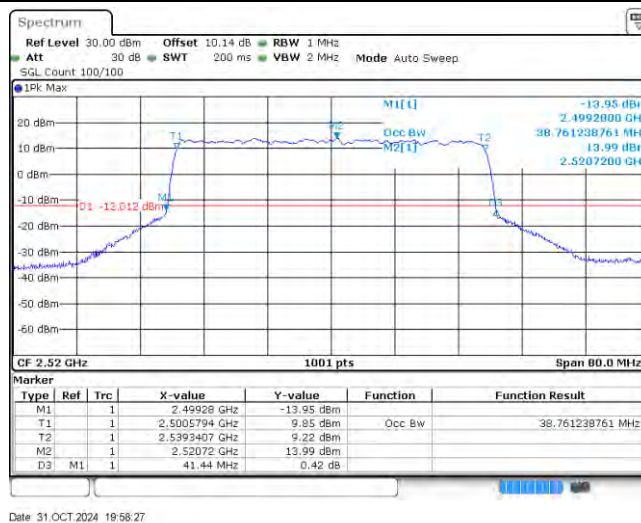
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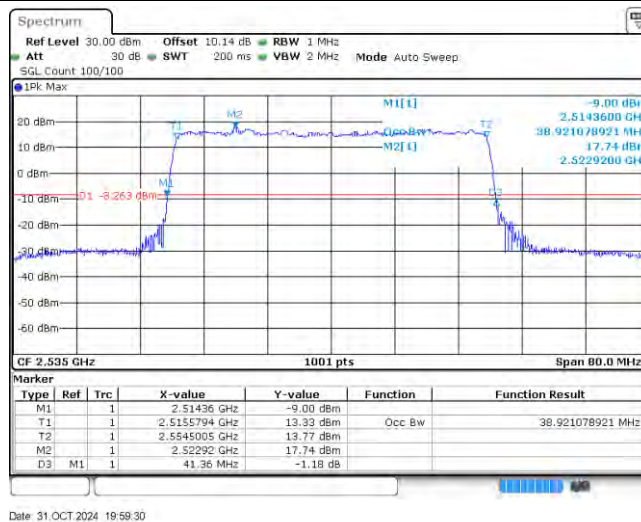
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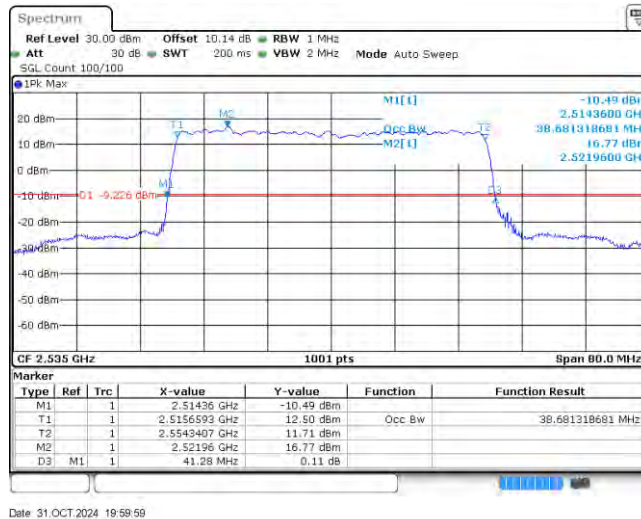
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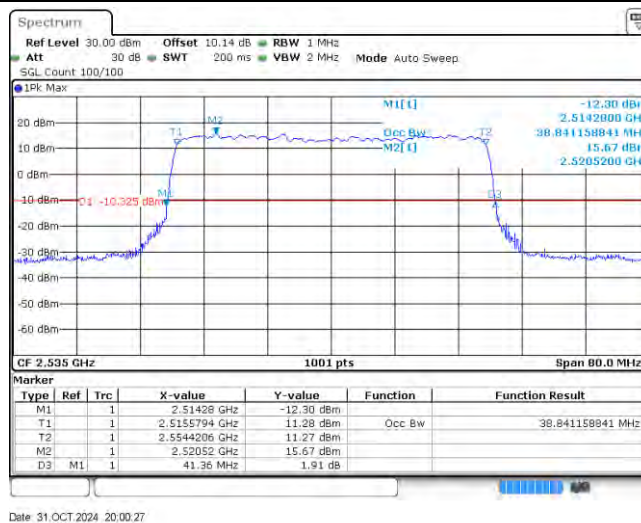
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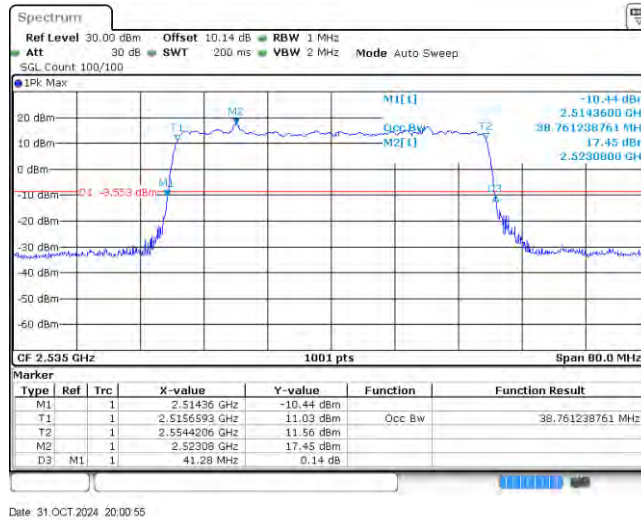
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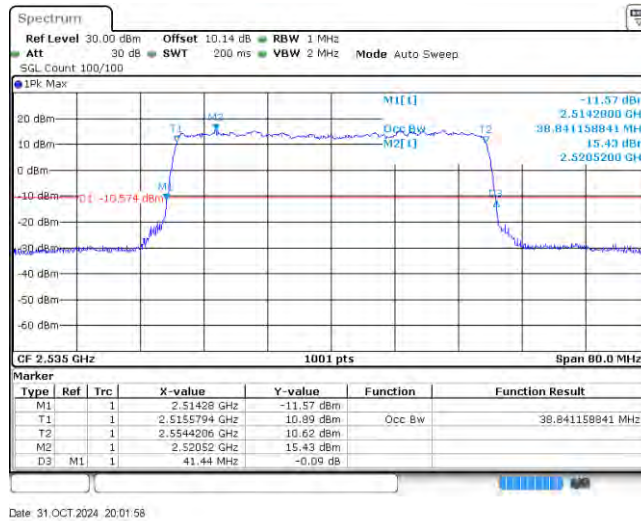
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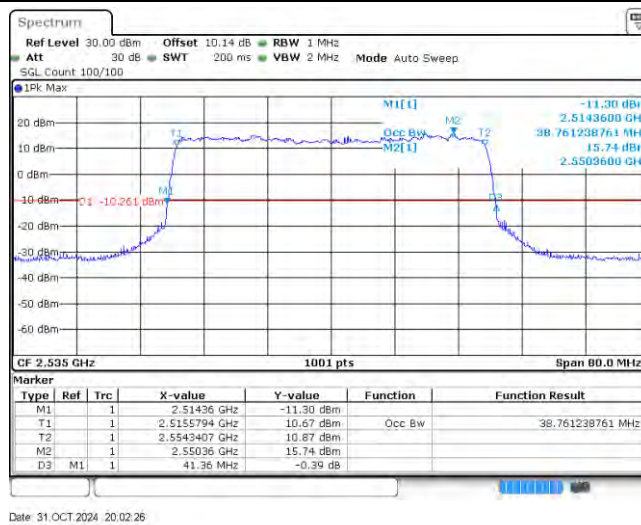
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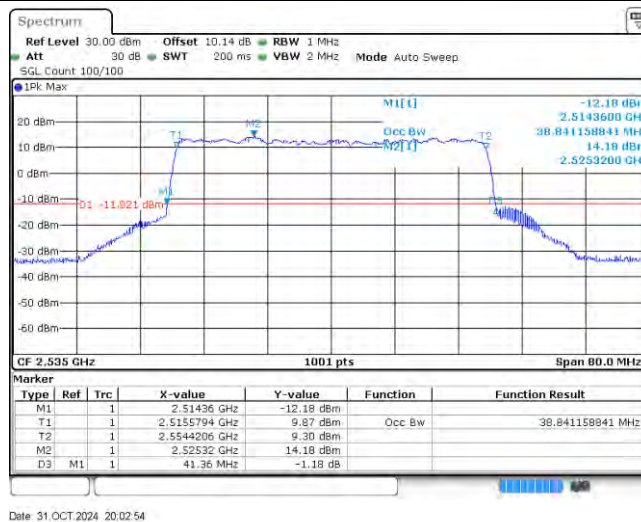
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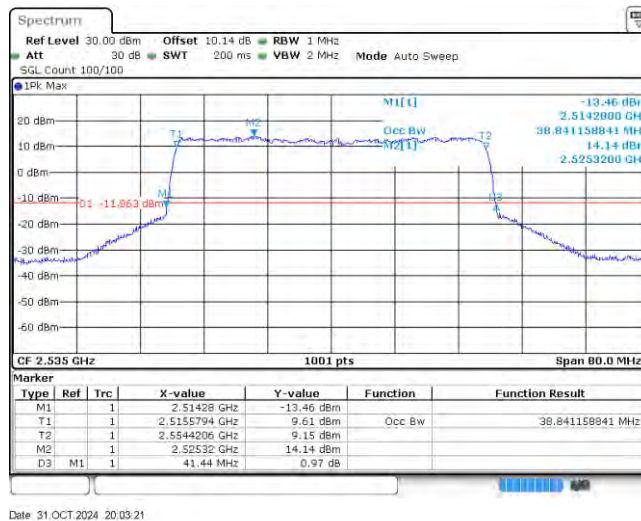
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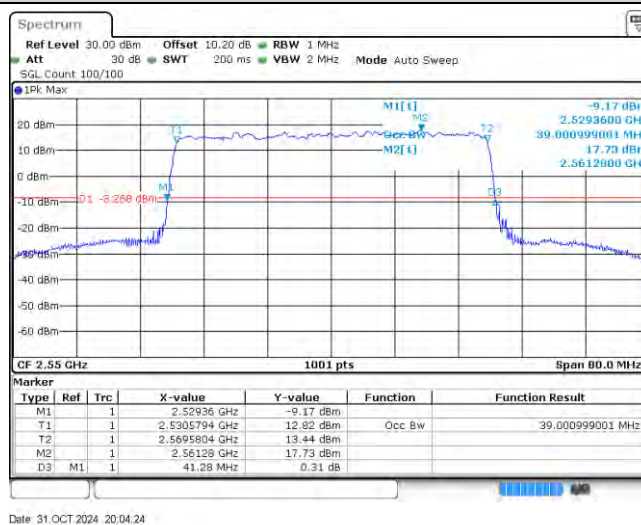
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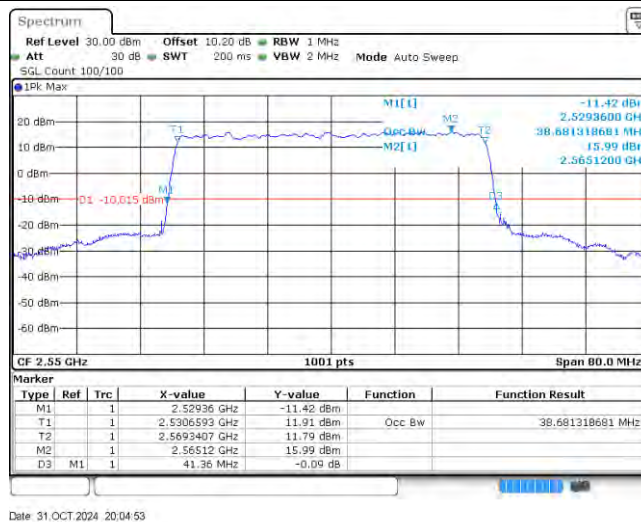
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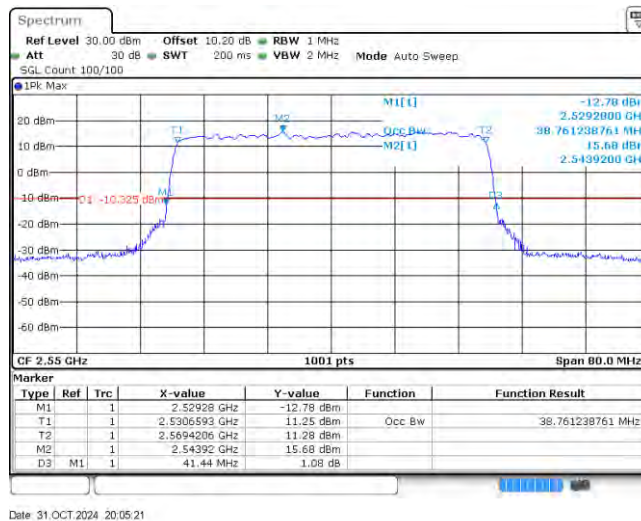
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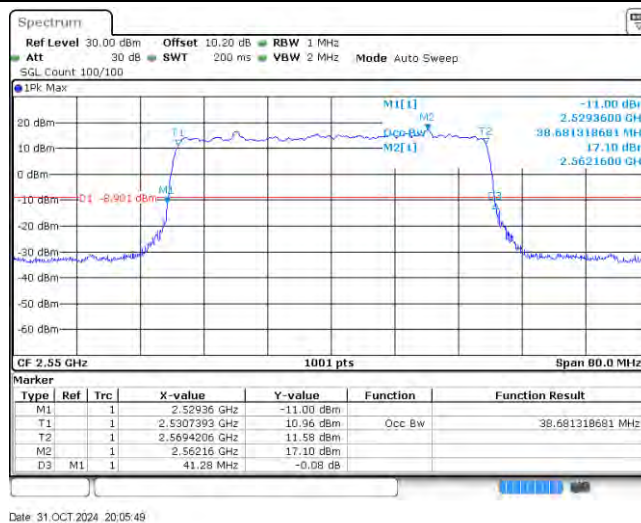
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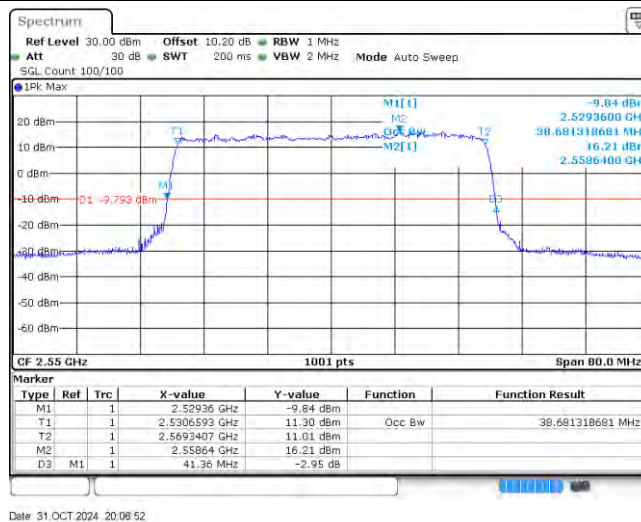
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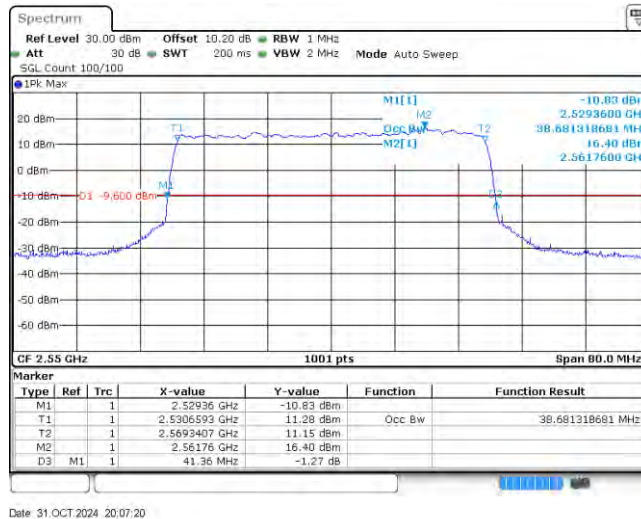
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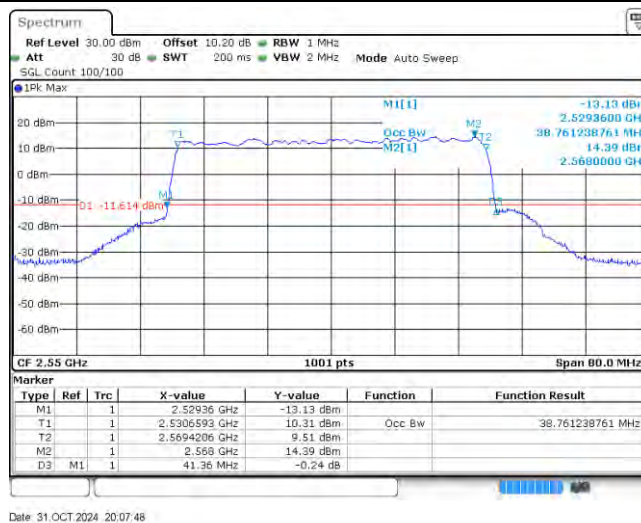
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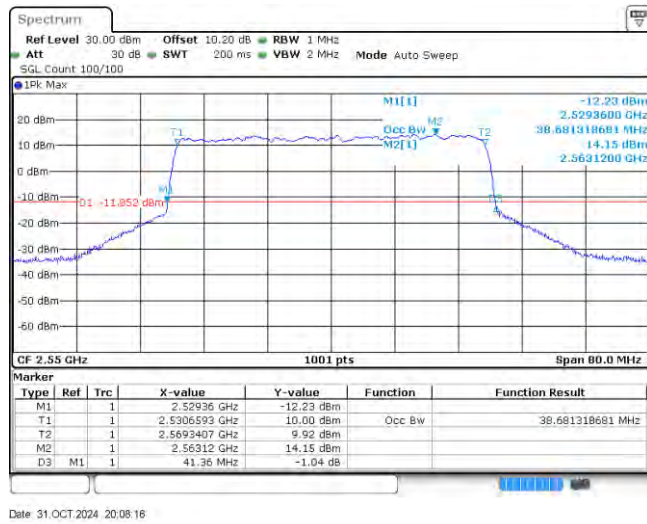
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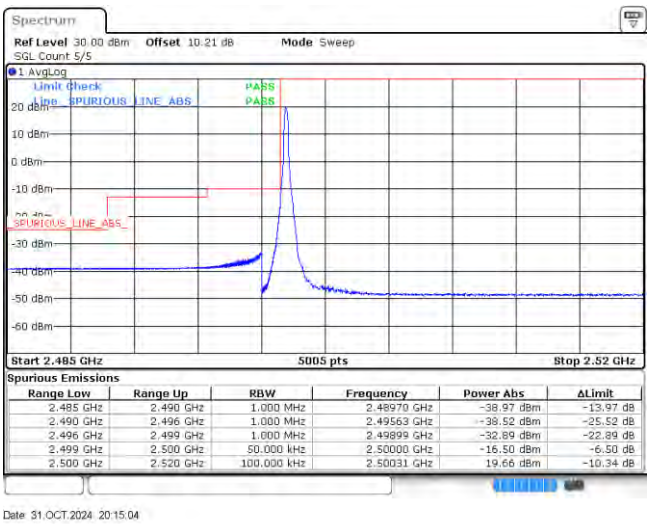
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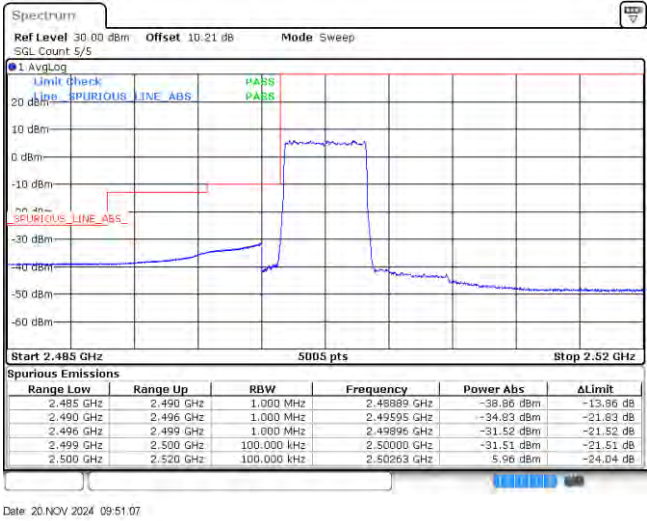
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Band Edge for SA

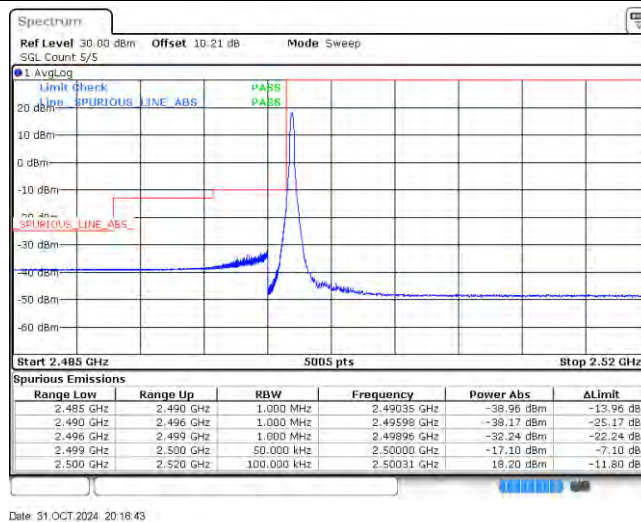
Test Graphs



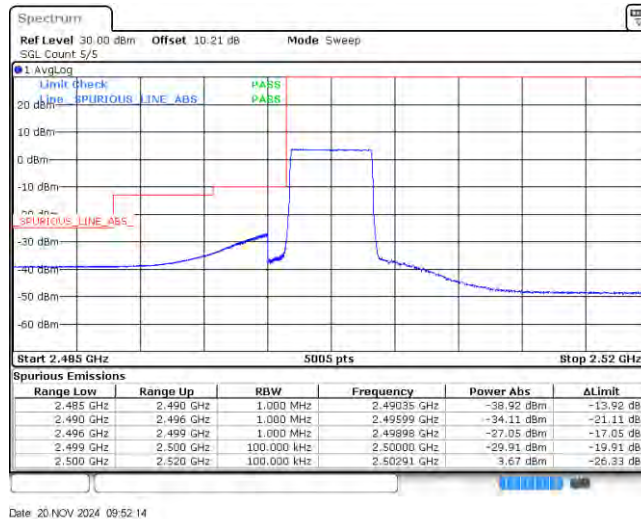
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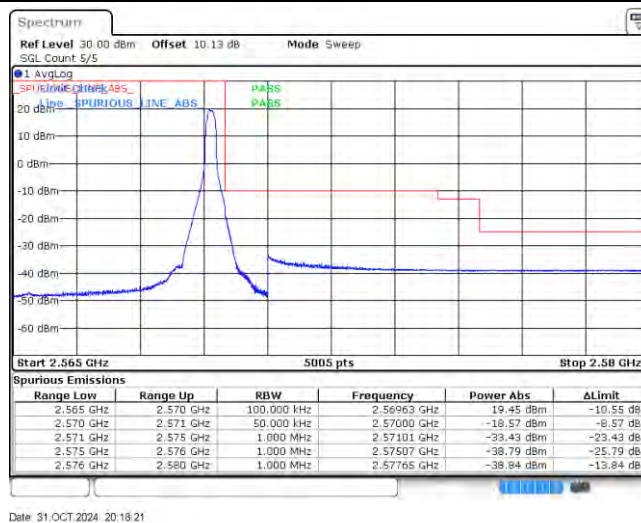
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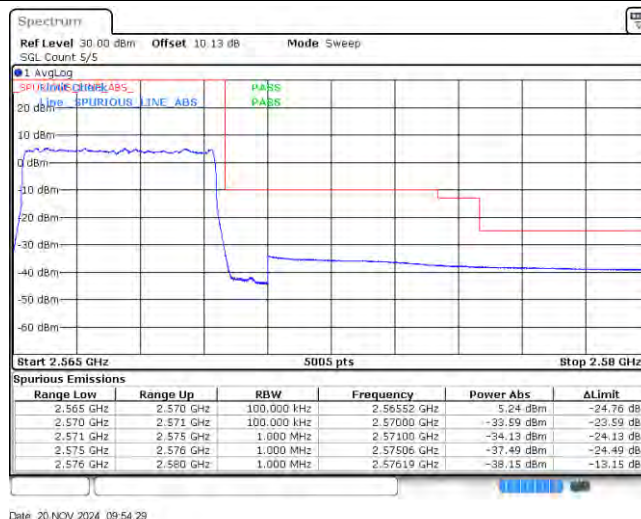
1-N7-PC3-15-5-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-2500.00-7.10--17.10-PASS



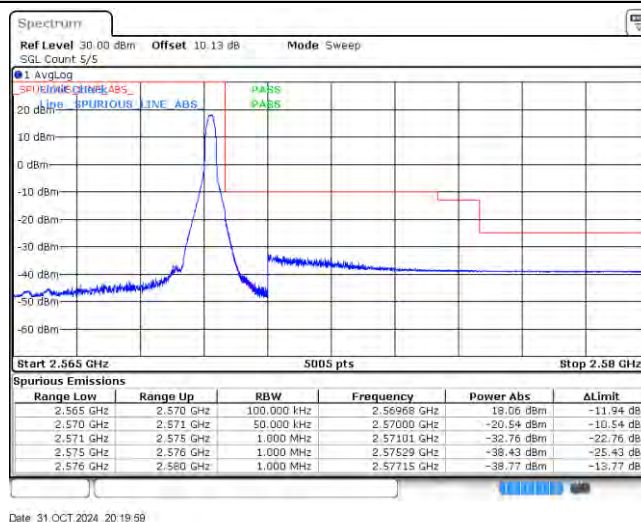
1-N7-PC3-15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant5-2490.35-13.92--38.92-PASS



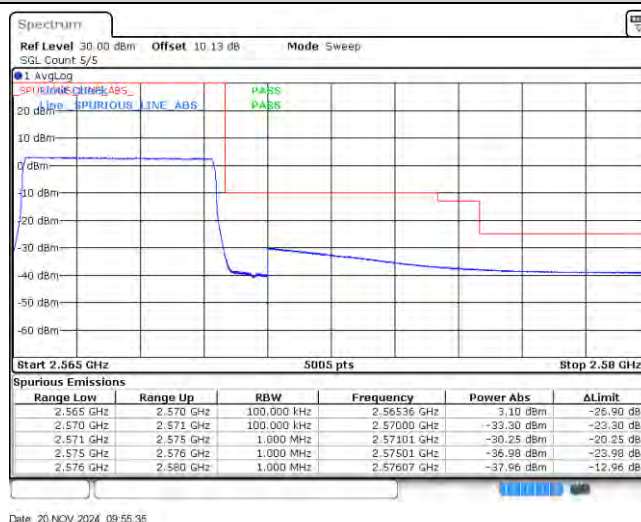
1-N7-PC3-15-5-H-2-DFT-QPSK-Edge_1RB_Right-1@24-Ant5-2570.00-8.57--18.57-PASS



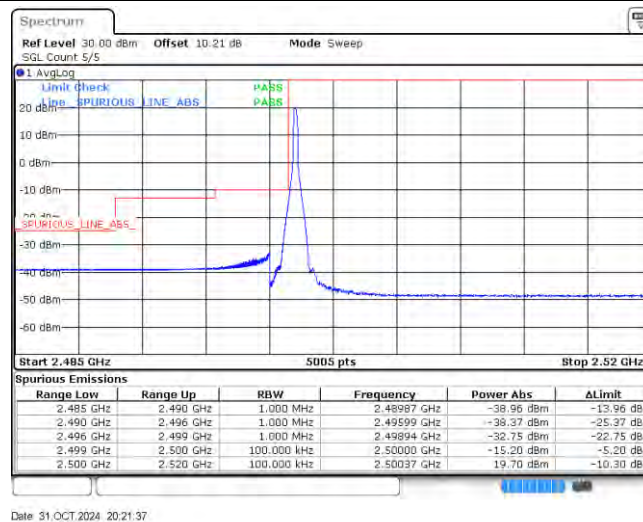
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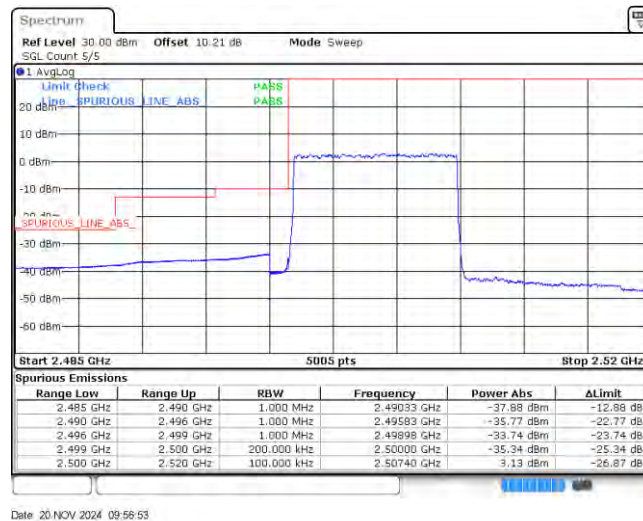
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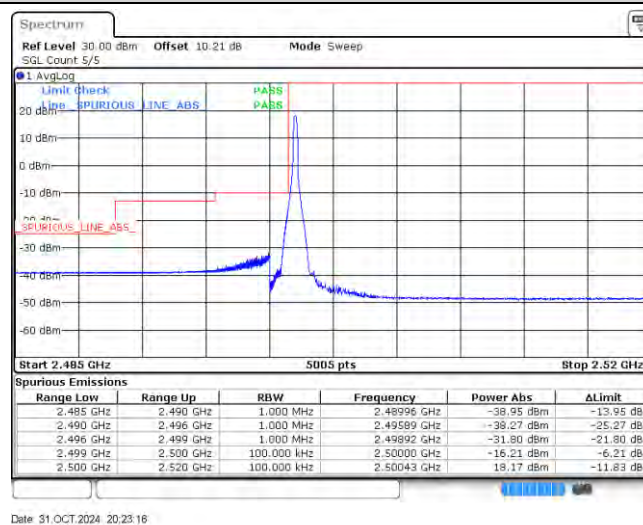
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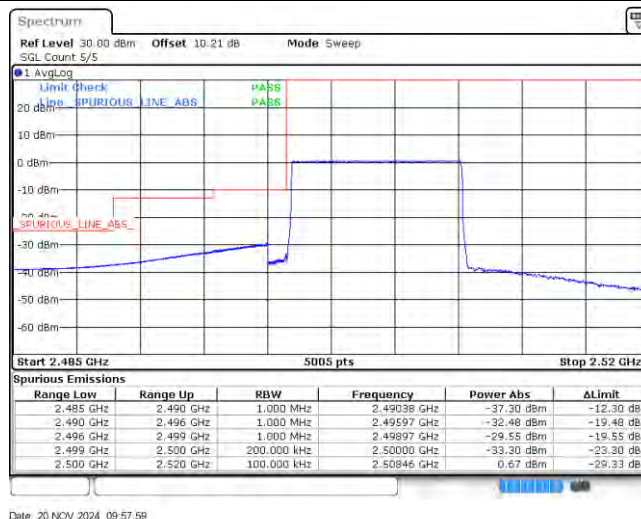
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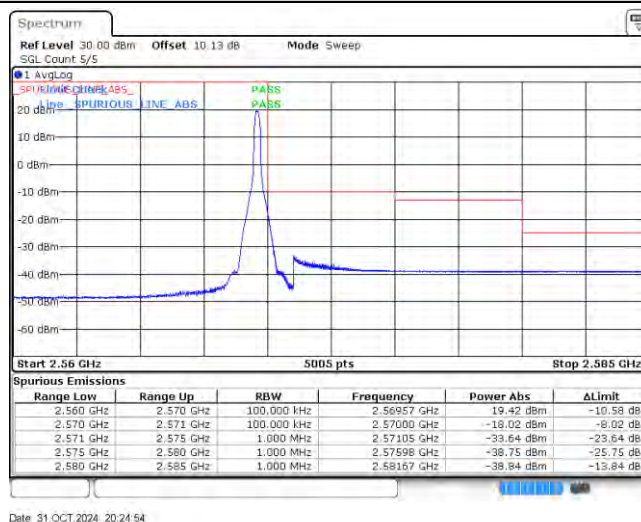
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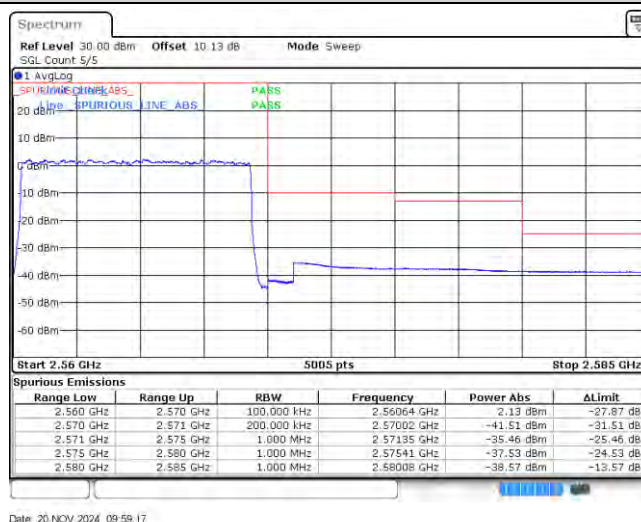
1-N7-PC3-15-10-L-4-CP-QPSK-Edge 1RB Left-1@0-Ant5-2500.00-6.21--16.21-PASS



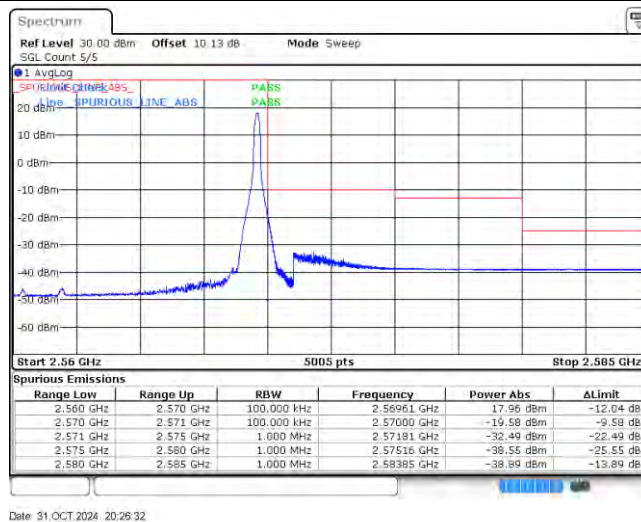
1-N7-PC3-15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant5-2490.38-12.30--37.30-PASS



1-N7-PC3-15-10-H-2-DFT-QPSK-Edge_1RB_Right-1@51-Ant5-2570.00-8.02--18.02-PASS



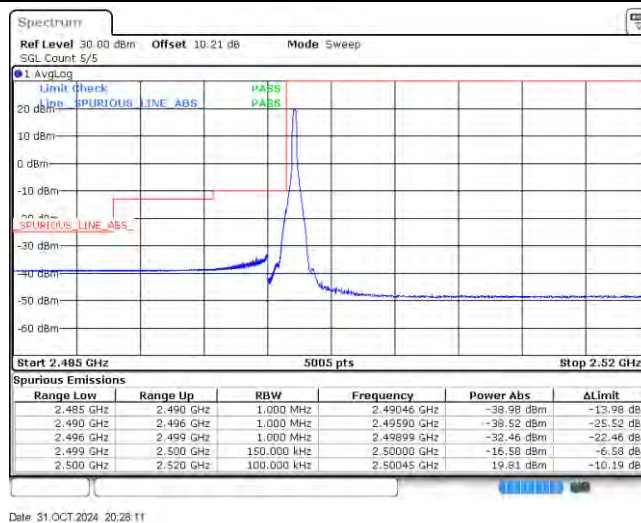
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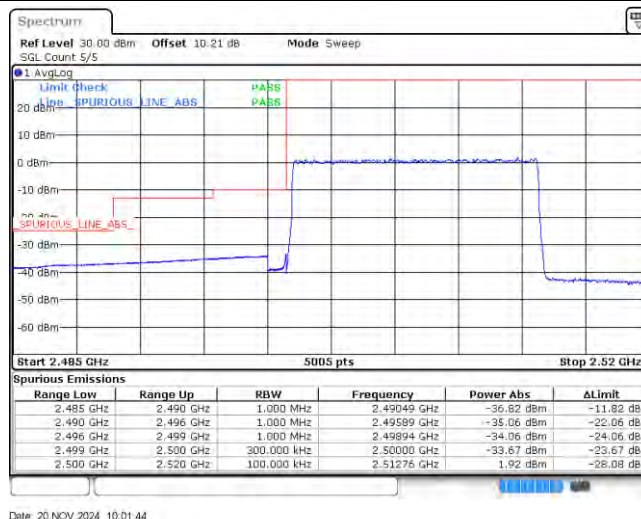
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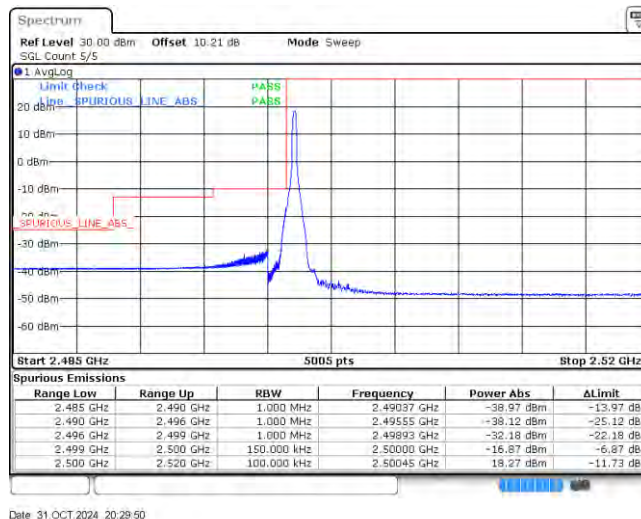
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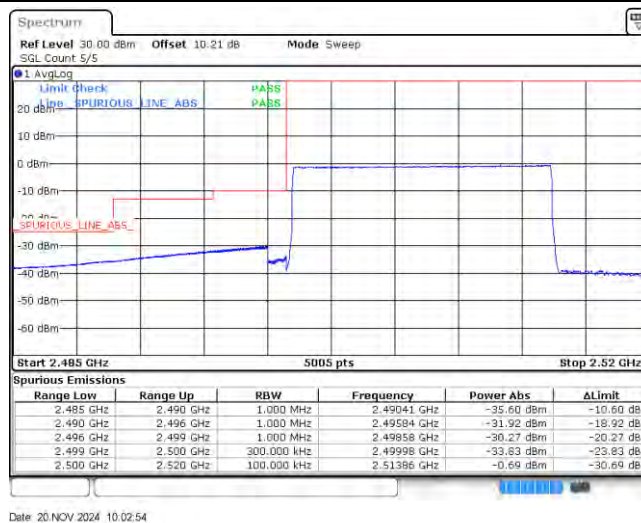
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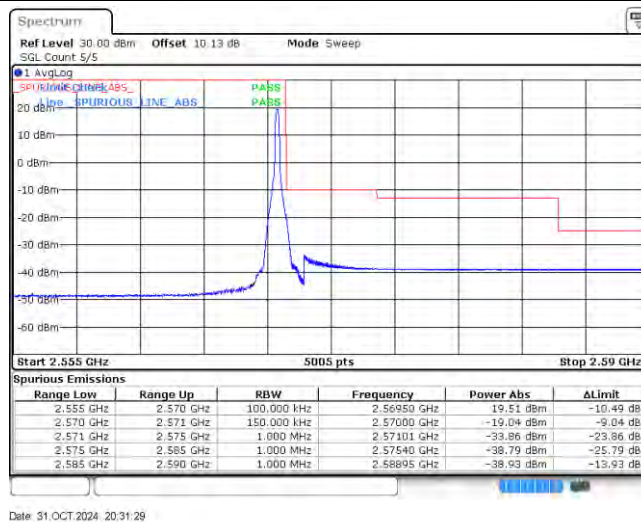
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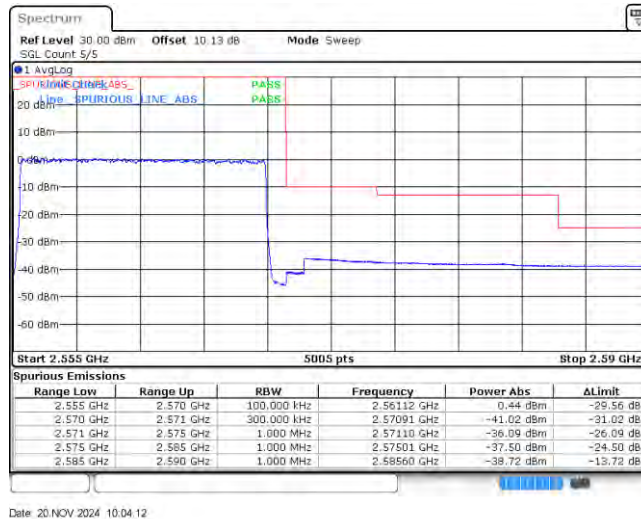
1-N7-PC3-15-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-2500.00-6.87--16.87-PASS



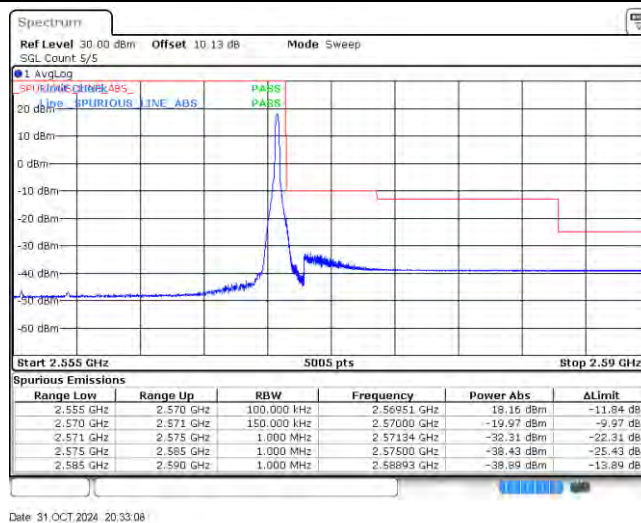
1-N7-PC3-15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant5-2490.41-10.60--35.60-PASS



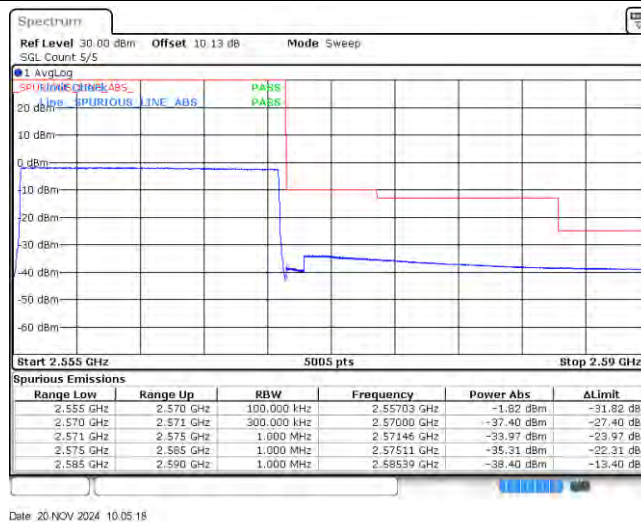
1-N7-PC3-15-15-H-2-DFT-QPSK-Edge_1RB_Right-1@78-Ant5-2570.00-9.04--19.04-PASS



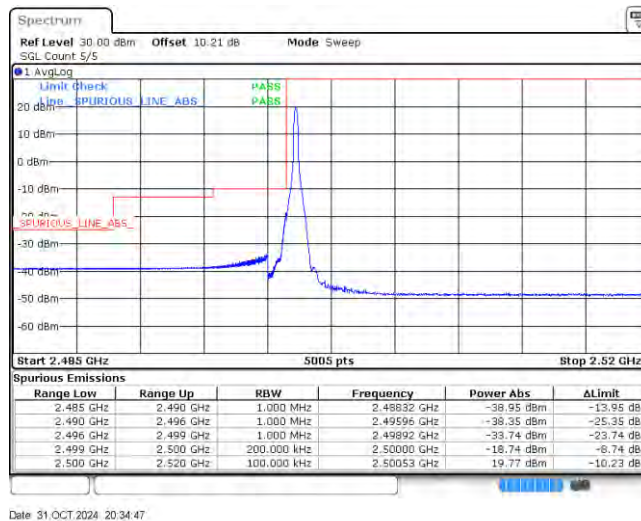
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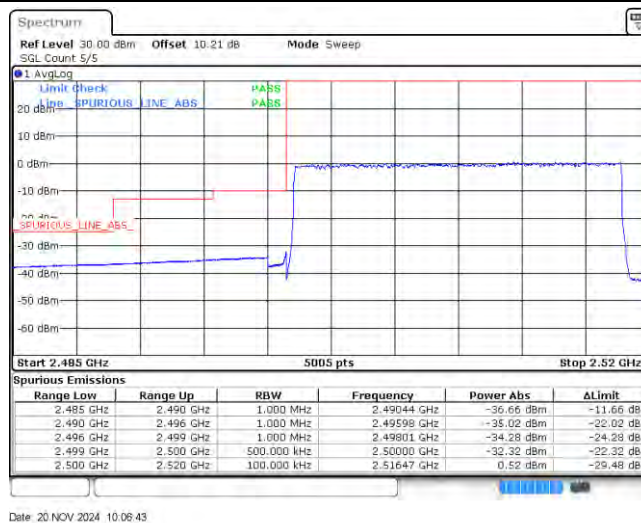
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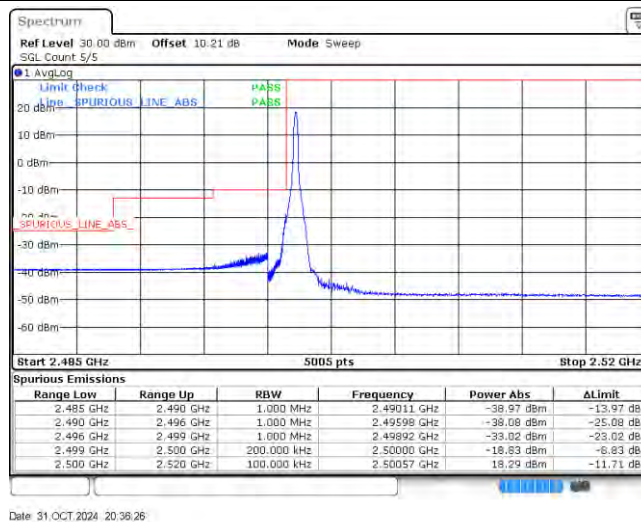
1-N7-PC3-15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant5-2585.39-13.40--38.40-PASS



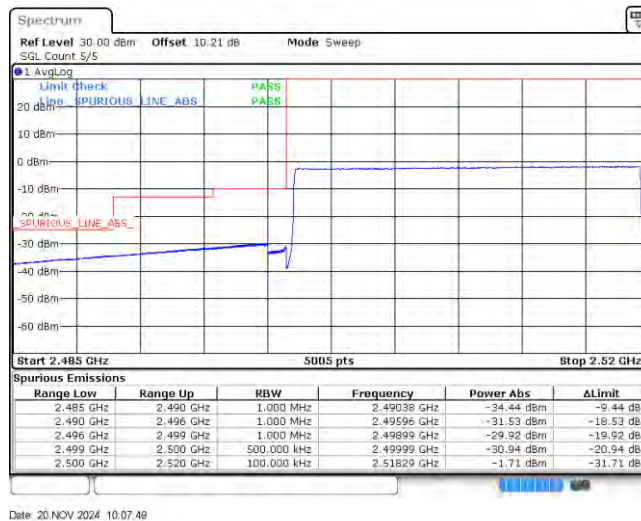
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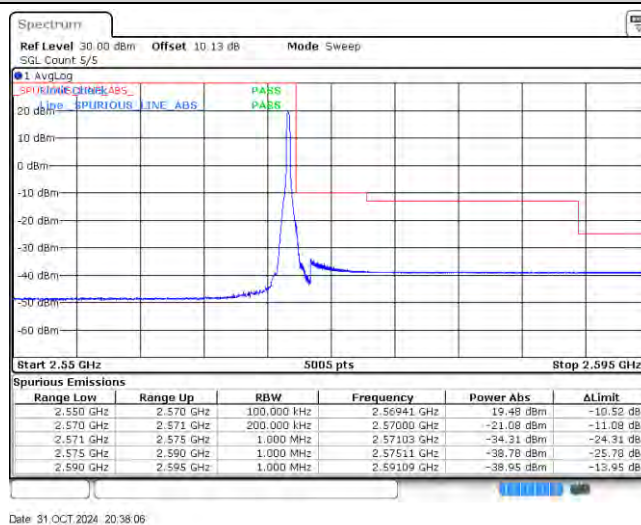
1-N7-PC3-15-20-L-3-DFT-QPSK-Outer_Full-100@0-Ant5-2490.44-11.66--36.66-PASS



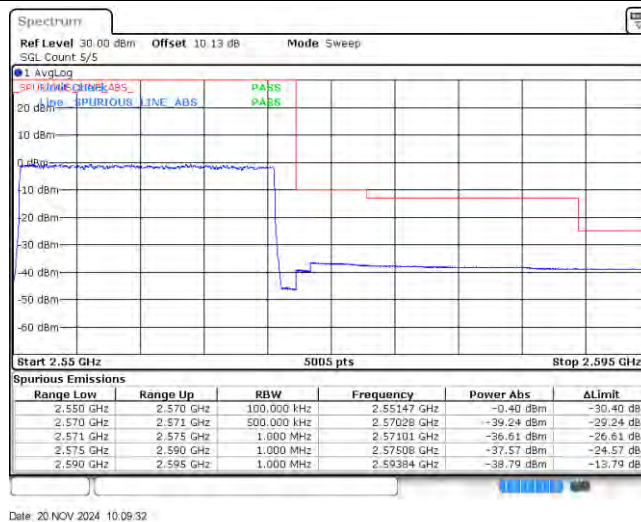
1-N7-PC3-15-20-L-4-CP-QPSK-Edge 1RB Left-1@0-Ant5-2500.00-8.83--18.83-PASS



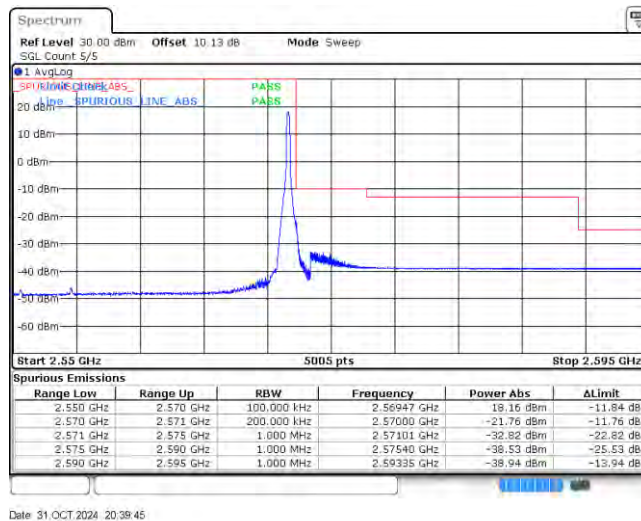
1-N7-PC3-15-20-L-6-CP-QPSK-Outer_Full-106@0-Ant5-2490.38-9.44--34.44-PASS



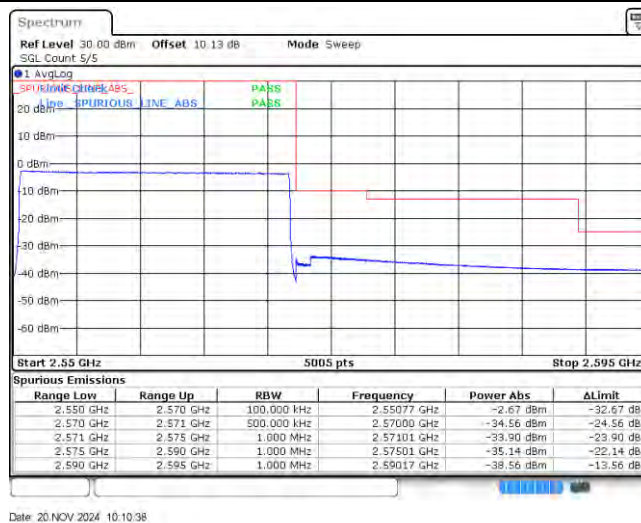
1-N7-PC3-15-20-H-2-DFT-QPSK-Edge 1RB Right-1@105-Ant5-2570.00-11.08--21.08-PASS



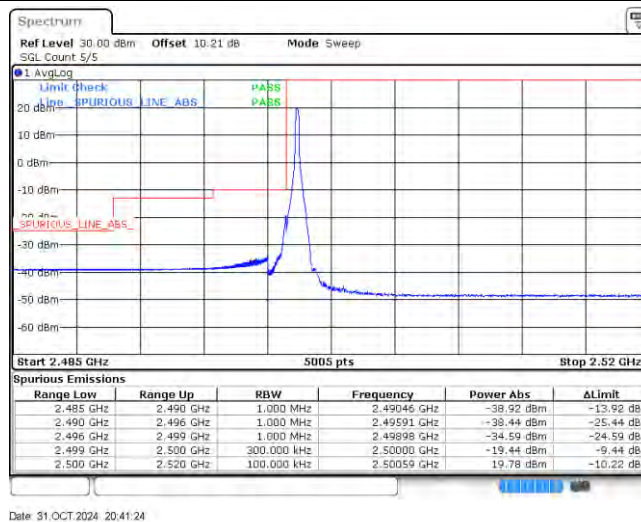
1-N7-PC3-15-20-H-3-DFT-QPSK-Outer_Full-100@0-Ant5-2593.84-13.79--38.79-PASS



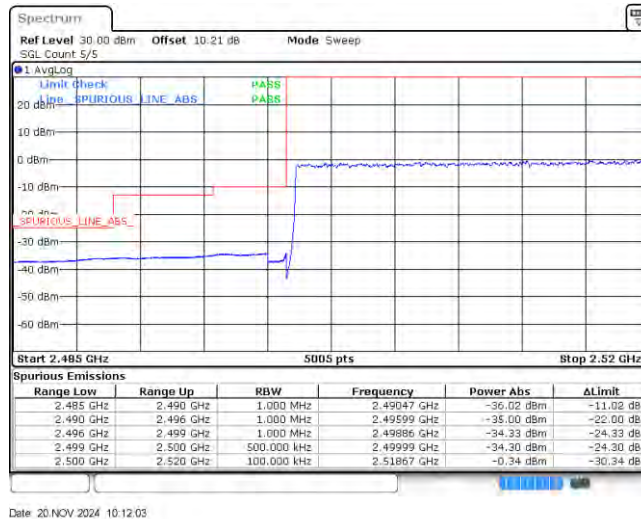
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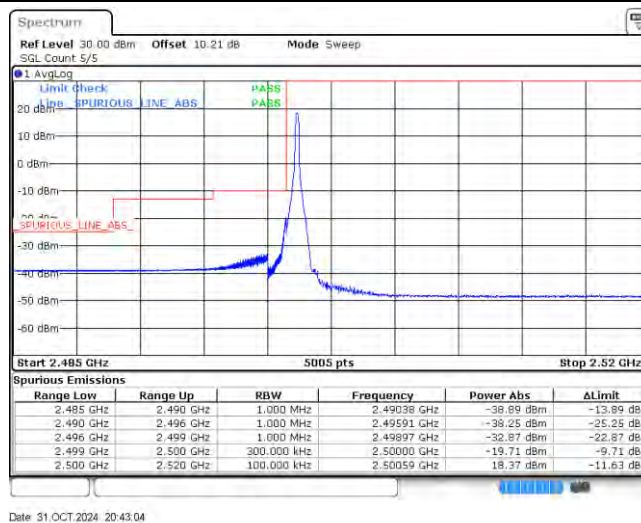
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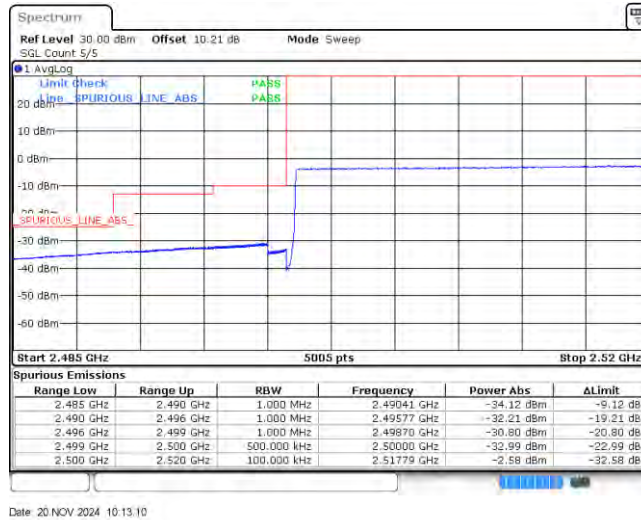
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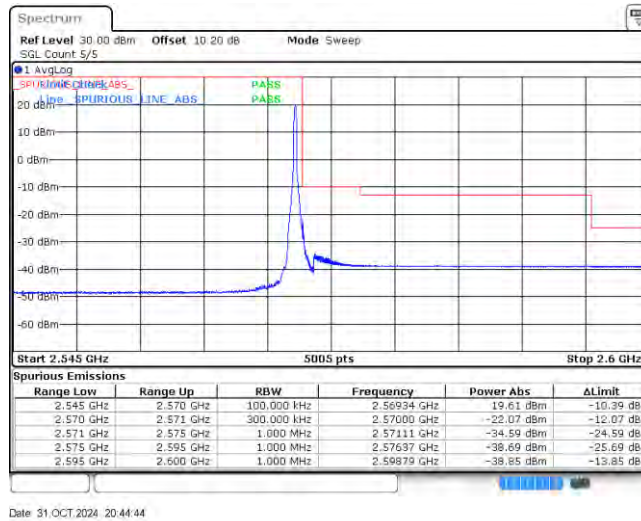
1-N7-PC3-15-25-L-3-DFT-QPSK-Outer_Full-128@0-Ant5-2490.47-11.02--36.02-PASS



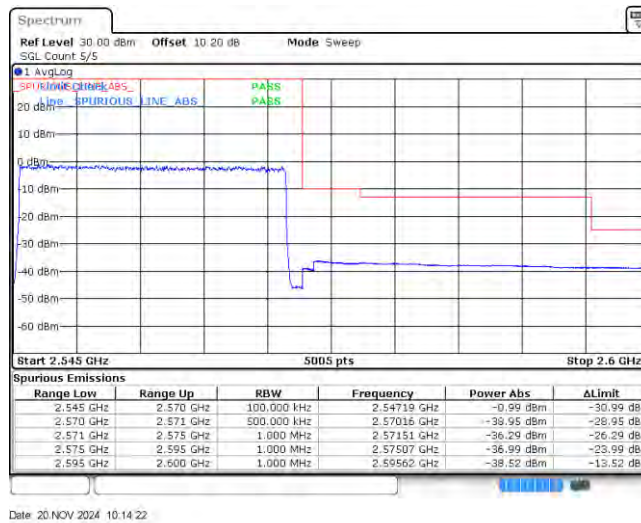
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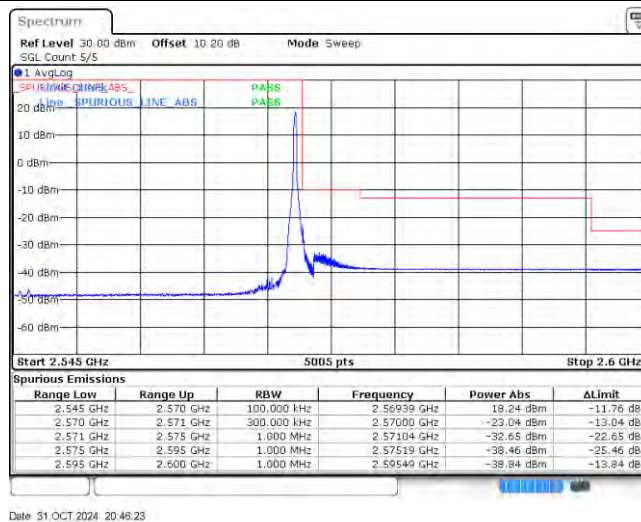
1-N7-PC3-15-25-L-6-CP-QPSK-Outer_Full-133@0-Ant5-2490.41-9.12--34.12-PASS



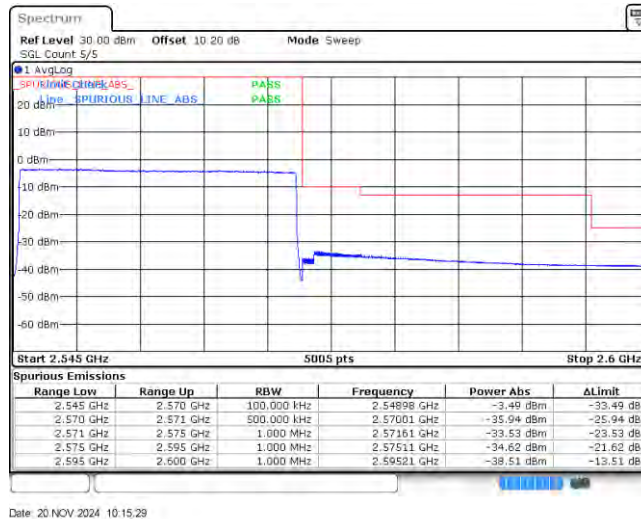
1-N7-PC3-15-25-H-2-DFT-QPSK-Edge_1RB_Right-1@132-Ant5-2570.00-12.07--22.07-PASS



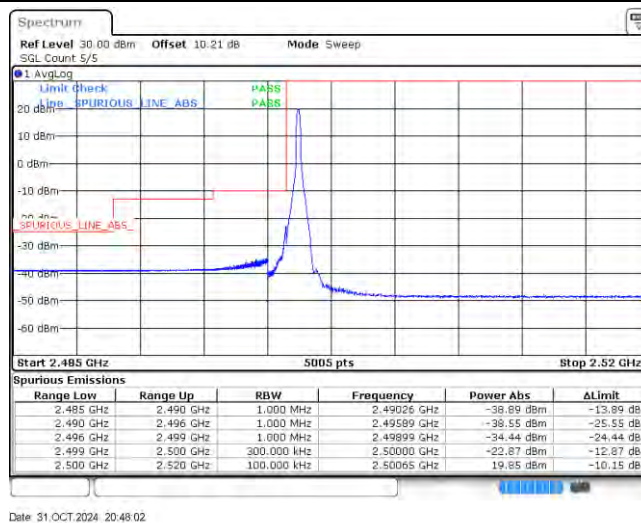
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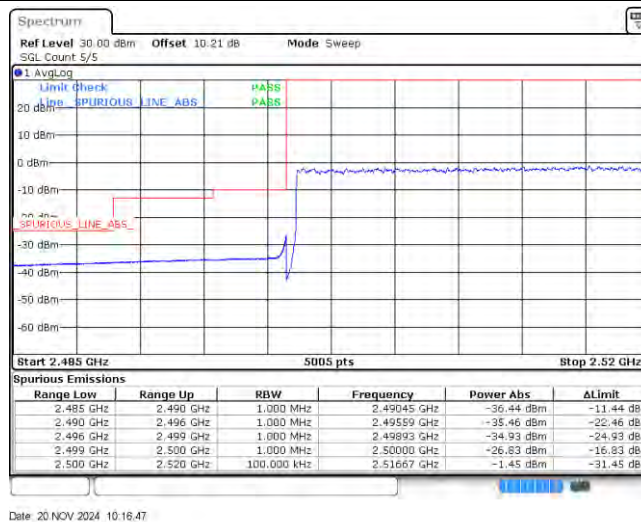
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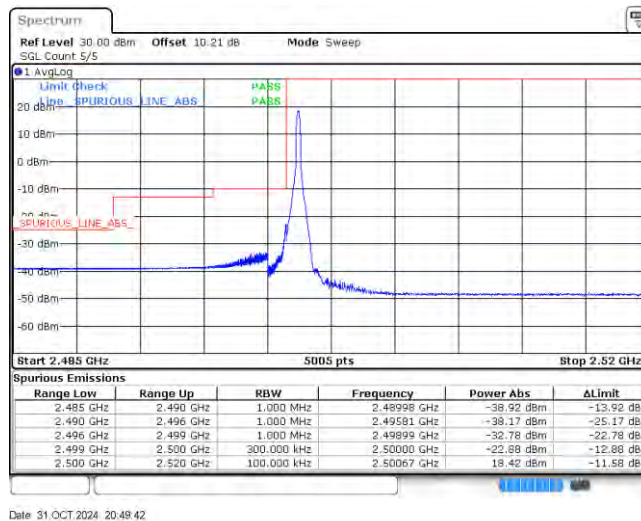
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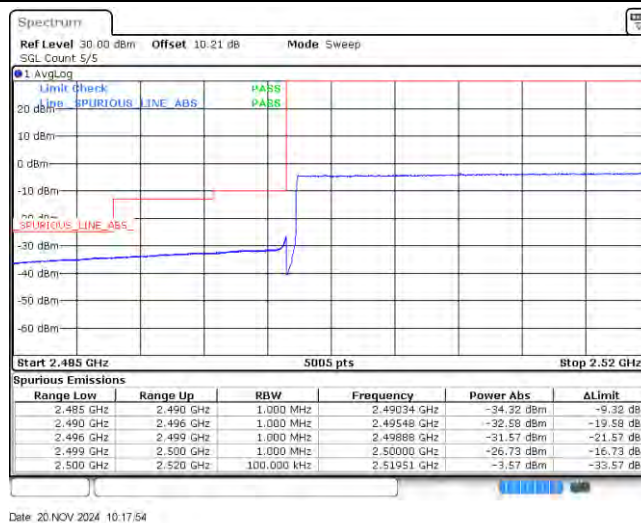
1-N7-PC3-15-30-L-1-DFT-QPSK-Edge_1RB_Left-1@0-Ant5-2500.00-12.87--22.87-PASS



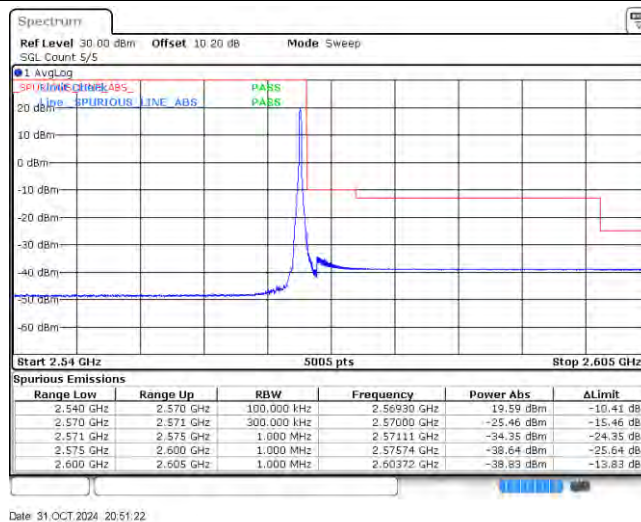
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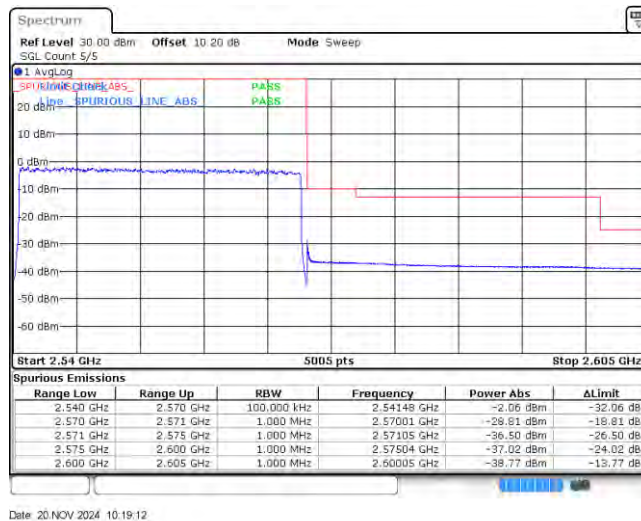
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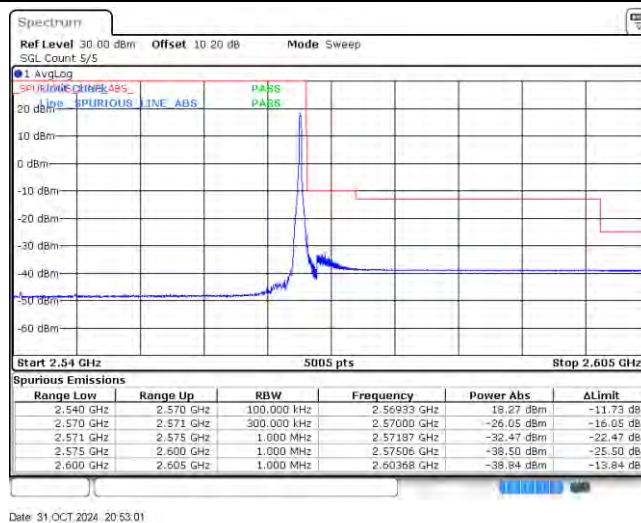
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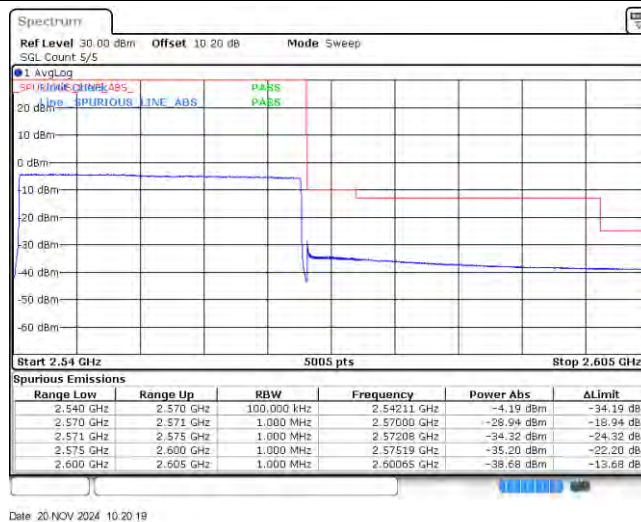
1-N7-PC3-15-30-H-2-DFT-QPSK-Edge_1RB_Right-1@159-Ant5-2603.72-13.83--38.83-PASS



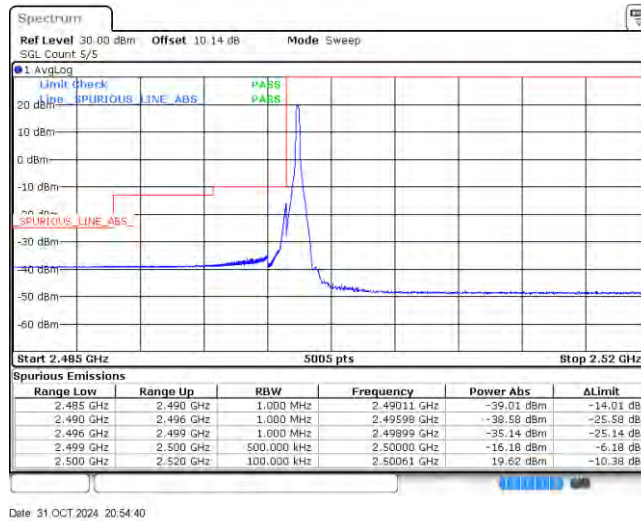
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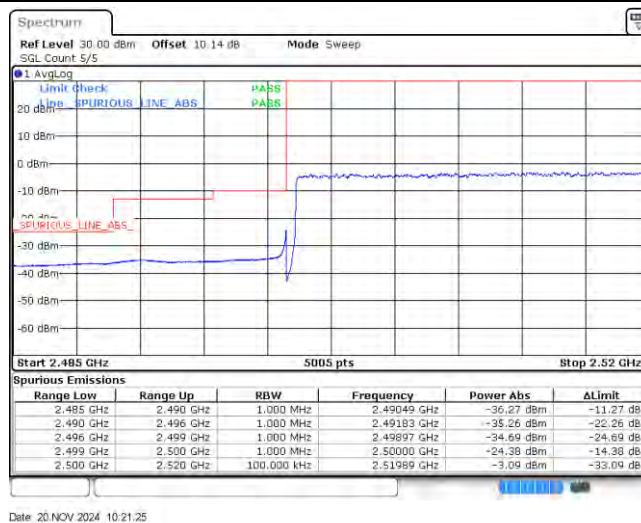
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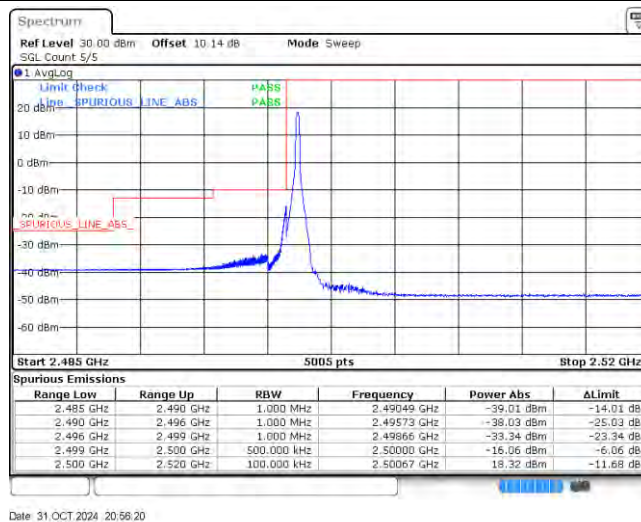
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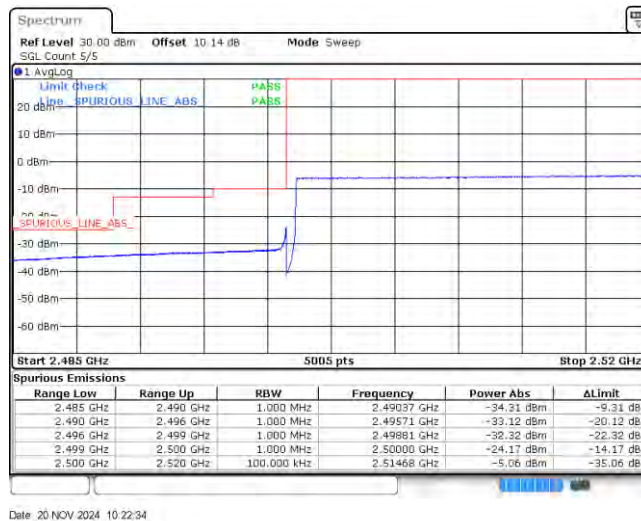
1-N7-PC3-15-40-L-1-DFT-QPSK-Edge_1RB_Left-1@0-Ant5-2500.00-6.18--16.18-PASS



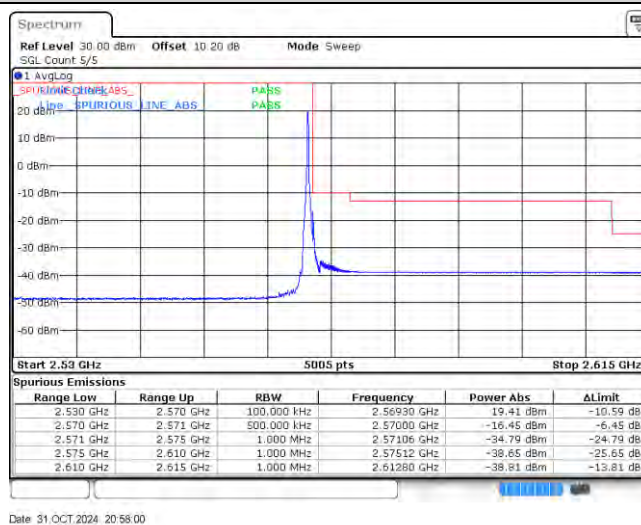
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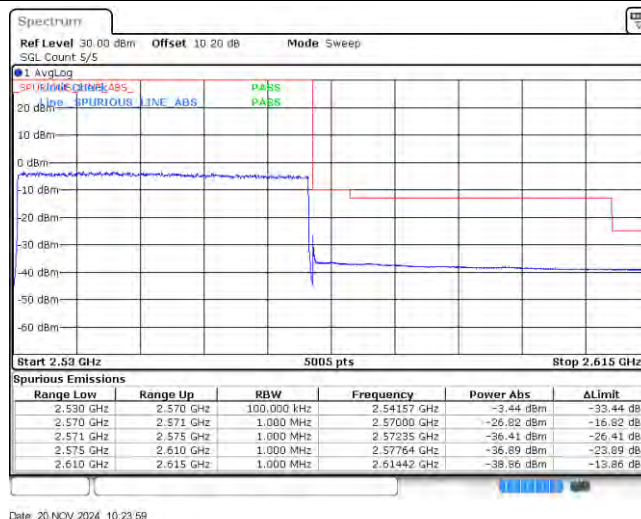
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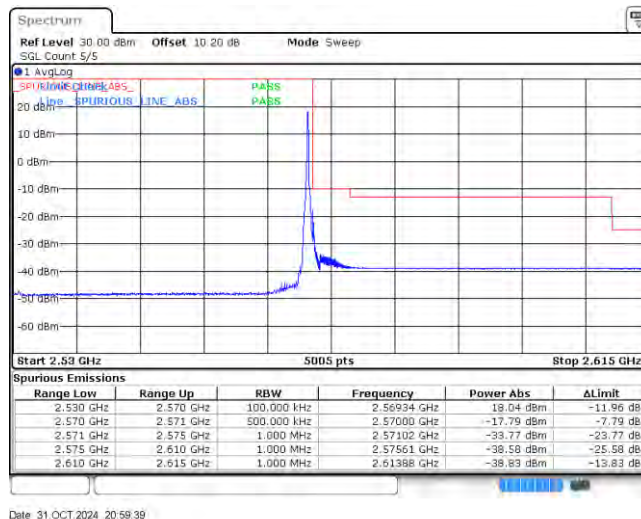
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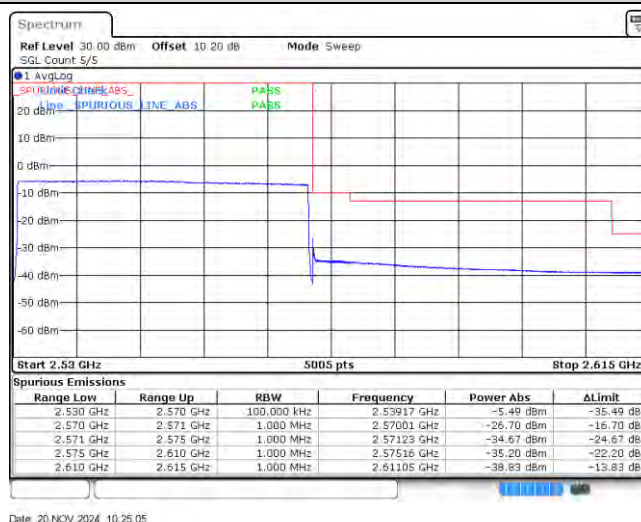
1-N7-PC3-15-40-H-2-DFT-QPSK-Edge 1RB Right-1@215-Ant5-2570.00-6.45--16.45-PASS



1-N7-PC3-15-40-H-3-DFT-QPSK-Outer_Full-216@0-Ant5-2614.42-13.86--38.86-PASS



1-N7-PC3-15-40-H-5-CP-QPSK-Edge_1RB_Right-1@215-Ant5-2570.00-7.79--17.79-PASS



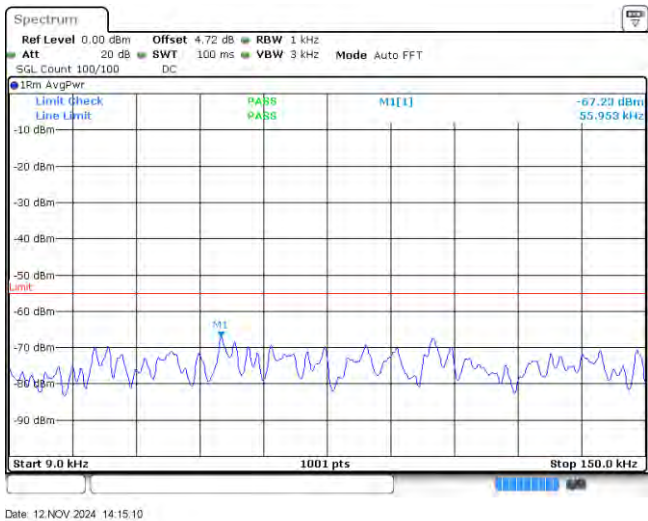
1-N7-PC3-15-40-H-6-CP-QPSK-Outer_Full-216@0-Ant5-2611.05-13.83--38.83-PASS

Conducted Spurious Emission for SA

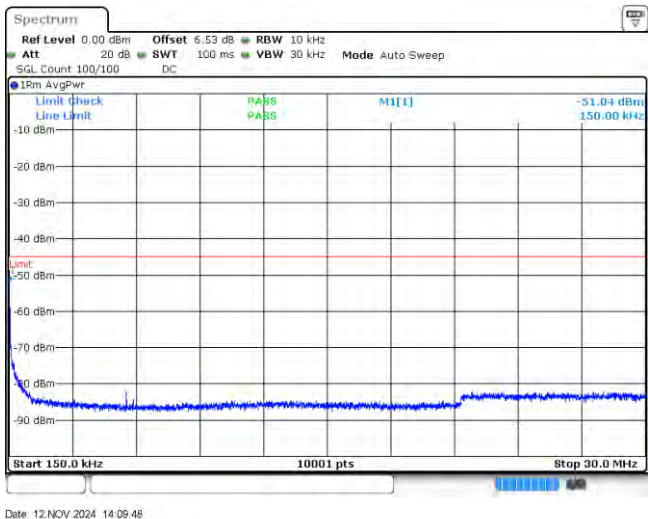
Test Result

Band	SCS	Bandwidth	Modulation	Channel	StartFreq	StopFreq	RB Config	Result (dBm)	Limit (dBm)	Verdict
N7	15	40	DFT-QPSK	L	0.009	0.15	1@0	-67.23	-55	PASS
N7	15	40	DFT-QPSK	L	0.15	30	1@0	-51.04	-45	PASS
N7	15	40	DFT-QPSK	L	30	1000	1@0	-53.54	-35	PASS
N7	15	40	DFT-QPSK	L	1000	3000	1@0	-41.02	-25	PASS
N7	15	40	DFT-QPSK	L	3000	12000	1@0	-42.05	-25	PASS
N7	15	40	DFT-QPSK	L	12000	26500	1@0	-39.67	-25	PASS
N7	15	40	DFT-QPSK	M	0.009	0.15	1@0	-59.48	-55	PASS
N7	15	40	DFT-QPSK	M	0.15	30	1@0	-51.09	-45	PASS
N7	15	40	DFT-QPSK	M	30	1000	1@0	-53.65	-35	PASS
N7	15	40	DFT-QPSK	M	1000	3000	1@0	-41.03	-25	PASS
N7	15	40	DFT-QPSK	M	3000	12000	1@0	-42.11	-25	PASS
N7	15	40	DFT-QPSK	M	12000	26500	1@0	-39.77	-25	PASS
N7	15	40	DFT-QPSK	H	0.009	0.15	1@0	-64.52	-55	PASS
N7	15	40	DFT-QPSK	H	0.15	30	1@0	-51.07	-45	PASS
N7	15	40	DFT-QPSK	H	30	1000	1@0	-53.54	-35	PASS
N7	15	40	DFT-QPSK	H	1000	3000	1@0	-41.00	-25	PASS
N7	15	40	DFT-QPSK	H	3000	12000	1@0	-42.05	-25	PASS
N7	15	40	DFT-QPSK	H	12000	26500	1@0	-39.61	-25	PASS

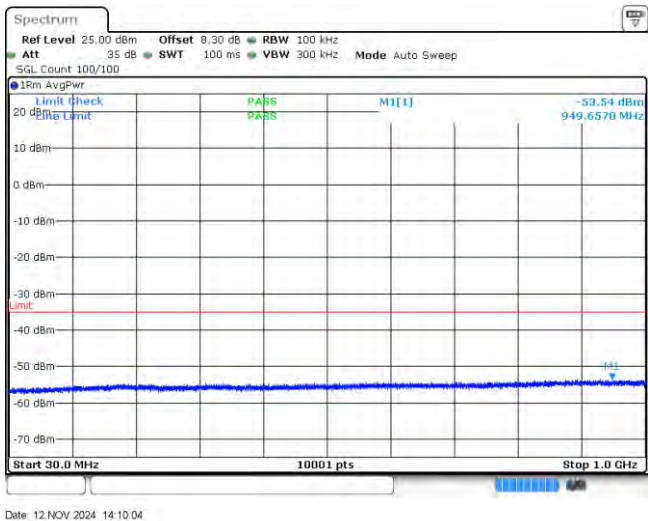
Test Graphs



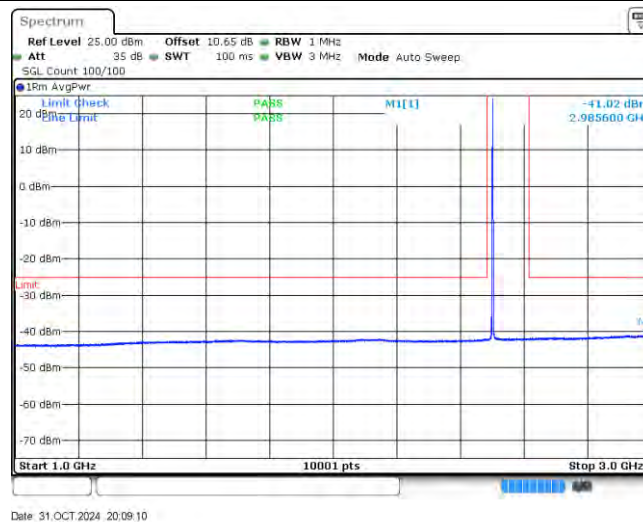
1-N7-PC3-15-40-L-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant5-0.06--67.23--55-PASS



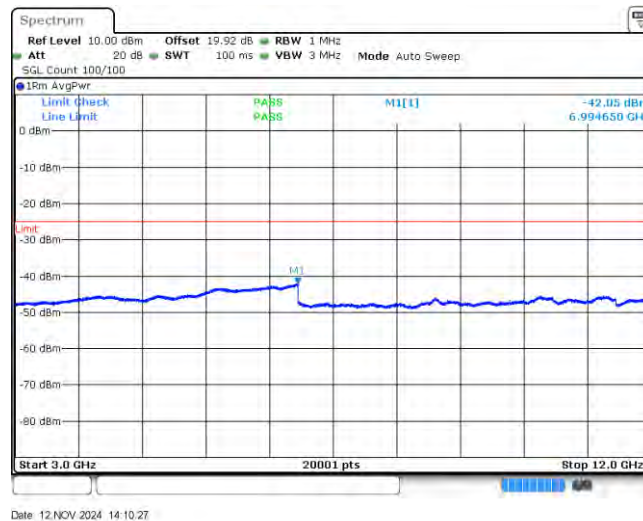
1-N7-PC3-15-40-L-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-0.15-30-Ant5-0.15--51.04--45-PASS



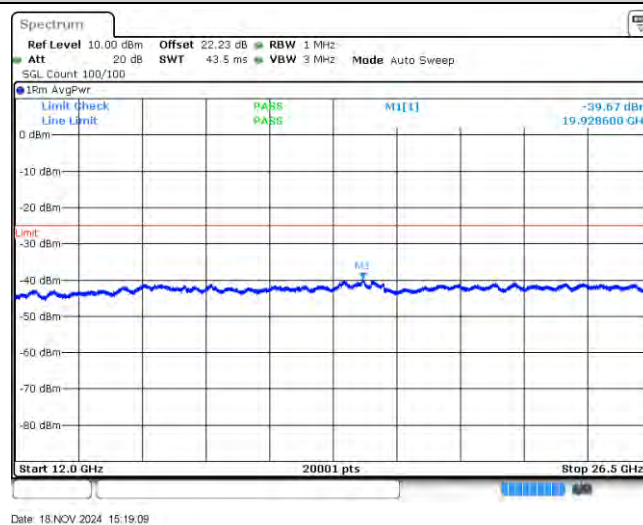
1-N7-PC3-15-40-L-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-30-1000-Ant5-949.66--53.54--35-PASS



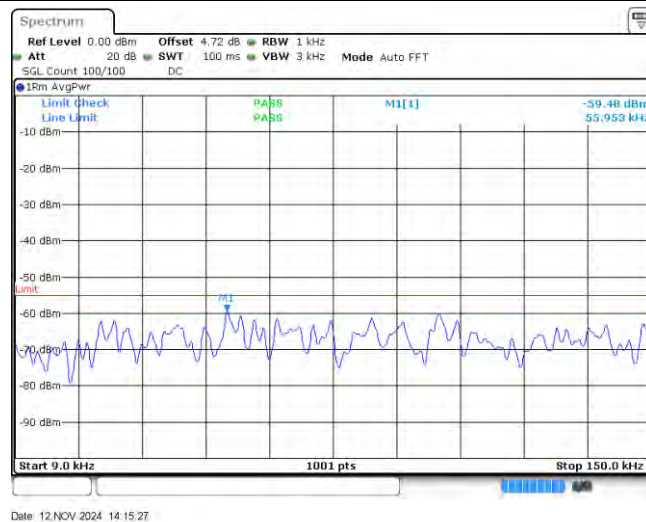
1-N7-PC3-15-40-L-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-1000-3000-Ant5-2985.60--41.02--25-PASS



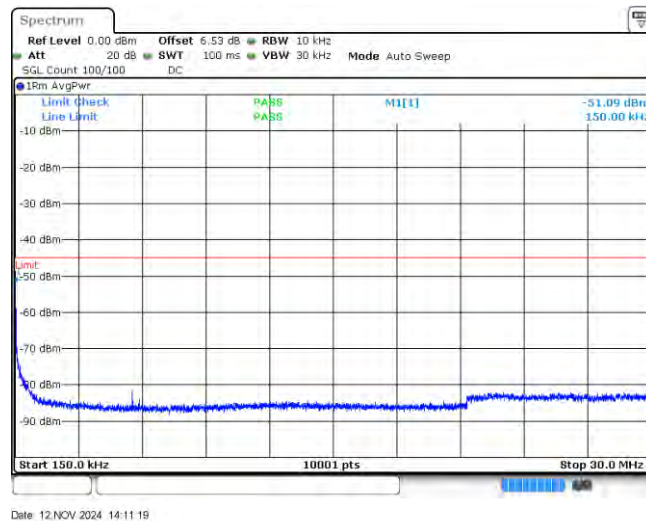
1-N7-PC3-15-40-L-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-3000-12000-Ant5-6994.65--42.05--25-PASS



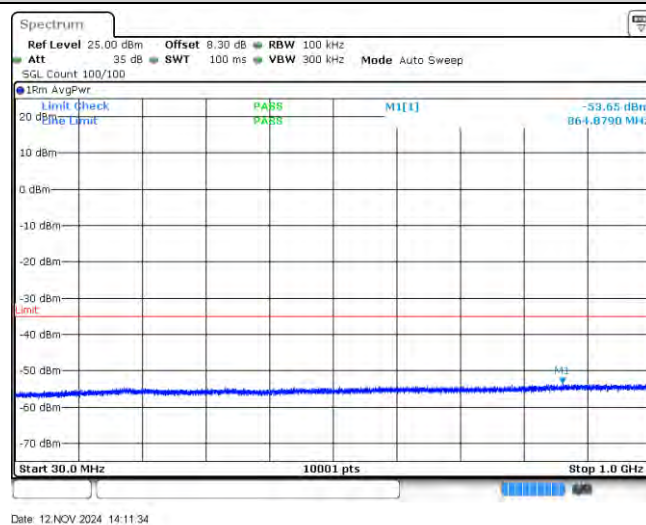
1-N7-PC3-15-40-L-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-12000-26500-Ant5-19928.60--39.67--25-PAS



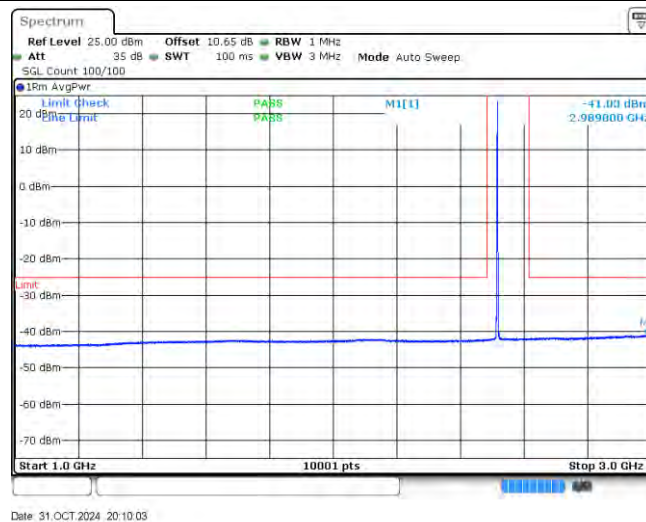
1-N7-PC3-15-40-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant5-0.06--59.48--55-PASS



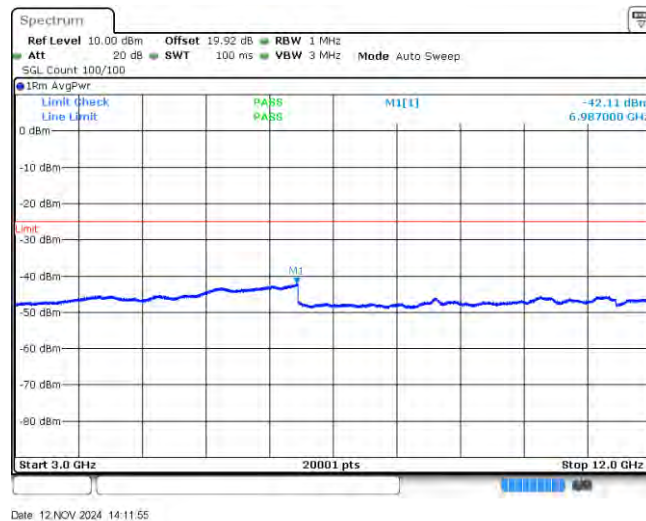
1-N7-PC3-15-40-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-0.15-30-Ant5-0.15--51.09--45-PASS



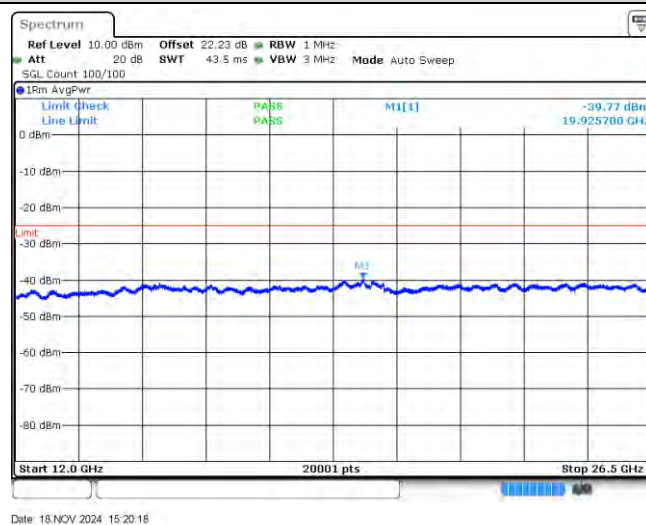
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1-N7-PC3-15-40-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-1000-3000-Ant5-2989.80--41.03--25-PASS



1-N7-PC3-15-40-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-3000-12000-Ant5-6987.00--42.11--25-PASS

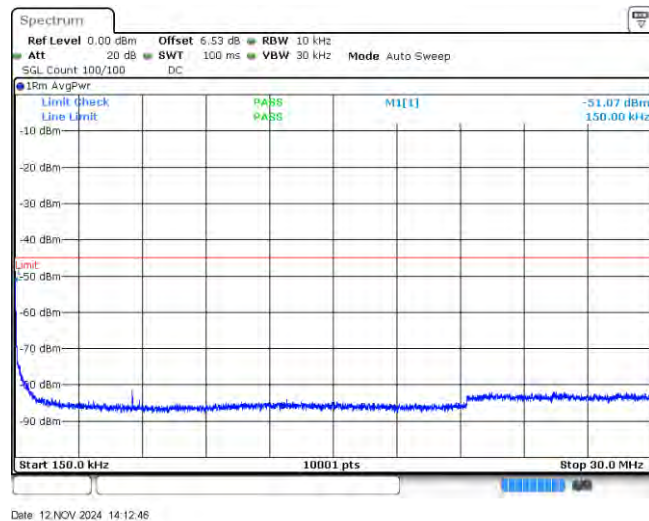


1-N7-PC3-15-40-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-12000-26500-Ant5-19925.70--39.77--25-PA

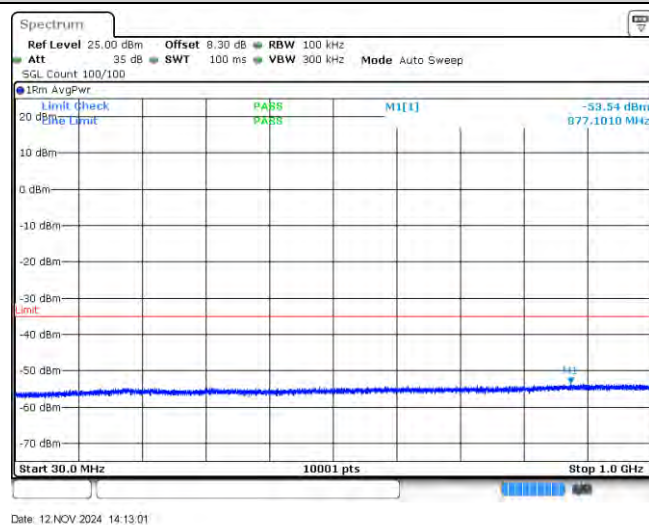
SS



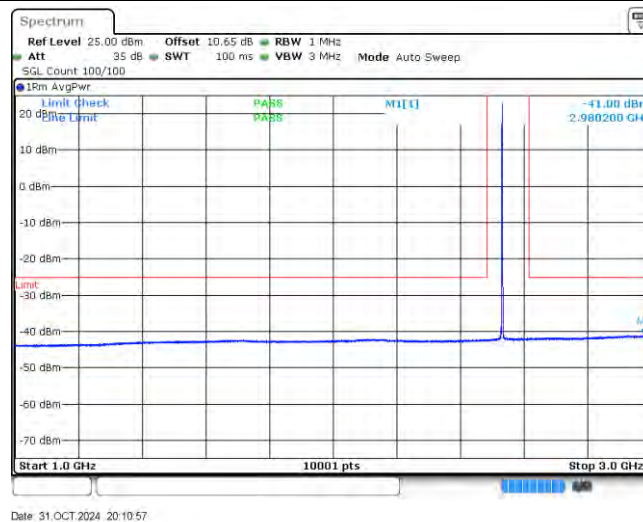
1-N7-PC3-15-40-H-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant5-0.06--64.52--55-PASS



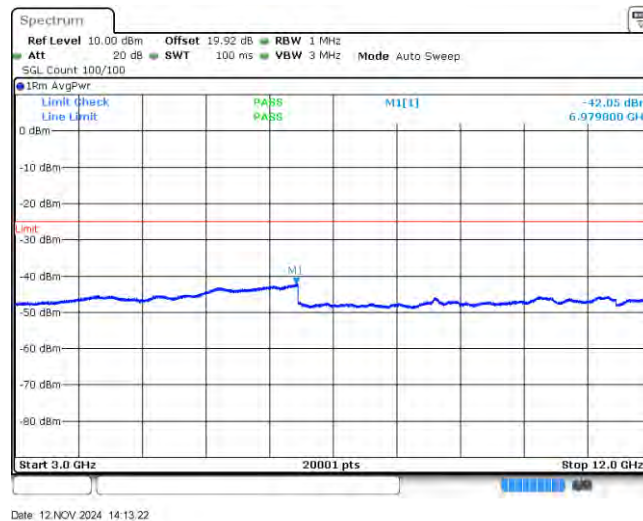
1-N7-PC3-15-40-H-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-0.15-30-Ant5-0.15--51.07--45-PASS



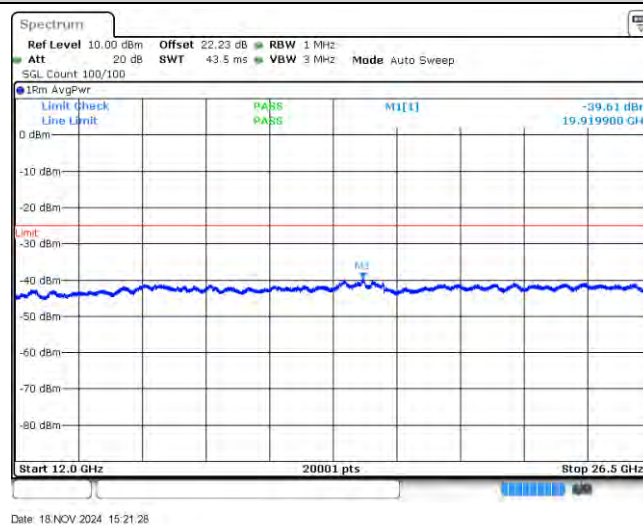
1-N7-PC3-15-40-H-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-30-1000-Ant5-877.10--53.54--35-PASS



1-N7-PC3-15-40-H-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-1000-3000-Ant5-2980.20--41.00--25-PASS



1-N7-PC3-15-40-H-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-3000-12000-Ant5-6979.80--42.05--25-PASS



1-N7-PC3-15-40-H-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-12000-26500-Ant5-19919.90--39.61--25-PAS

Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(°C)	Deviation(Hz)	Deviation (ppm)	Verdict
N7	15	40	DFT-QPSK	M	216@0	HV	NT	-4.42	-0.00174	PASS
N7	15	40	DFT-QPSK	M	216@0	NV	NT	-3.65	-0.00144	PASS
N7	15	40	DFT-QPSK	M	216@0	LV	NT	-3.93	-0.00155	PASS
N7	15	40	CP-QPSK	M	216@0	HV	NT	-4.30	-0.00170	PASS
N7	15	40	CP-QPSK	M	216@0	NV	NT	-2.66	-0.00105	PASS
N7	15	40	CP-QPSK	M	216@0	LV	NT	-1.77	-0.00070	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(°C)	Deviation(Hz)	Deviation (ppm)	Verdict
N7	15	40	DFT-QPSK	M	216@0	NV	50	-1.490000	-0.000588	PASS
N7	15	40	DFT-QPSK	M	216@0	NV	-20	-5.500000	-0.002170	PASS
N7	15	40	DFT-QPSK	M	216@0	NV	-10	-3.673000	-0.001449	PASS
N7	15	40	DFT-QPSK	M	216@0	NV	0	-4.513000	-0.001780	PASS
N7	15	40	DFT-QPSK	M	216@0	NV	10	-3.222000	-0.001271	PASS
N7	15	40	DFT-QPSK	M	216@0	NV	20	-3.758000	-0.001482	PASS
N7	15	40	DFT-QPSK	M	216@0	NV	30	-3.265000	-0.001288	PASS
N7	15	40	DFT-QPSK	M	216@0	NV	-30	-3.503000	-0.001382	PASS
N7	15	40	DFT-QPSK	M	216@0	NV	40	-3.347000	-0.001320	PASS
N7	15	40	CP-QPSK	M	216@0	NV	50	-4.876000	-0.001923	PASS
N7	15	40	CP-QPSK	M	216@0	NV	-20	-3.380000	-0.001333	PASS
N7	15	40	CP-QPSK	M	216@0	NV	-10	-3.134000	-0.001236	PASS
N7	15	40	CP-QPSK	M	216@0	NV	0	-3.523000	-0.001390	PASS
N7	15	40	CP-QPSK	M	216@0	NV	10	-2.190000	-0.000864	PASS
N7	15	40	CP-QPSK	M	216@0	NV	20	-5.465000	-0.002156	PASS
N7	15	40	CP-QPSK	M	216@0	NV	30	-2.716000	-0.001071	PASS
N7	15	40	CP-QPSK	M	216@0	NV	40	-4.157000	-0.001640	PASS
N7	15	40	CP-QPSK	M	216@0	NV	-30	-2.651000	-0.001046	PASS

Field Strength of Spurious Radiation

NR N7 ANT4-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#1								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5002.0	-62.61	-25	-37.61	-68.18	4.57	10.14	Horizontal	Pass
7503.0	-60.13	-25	-35.13	-66.93	4.94	11.74	Horizontal	Pass
10004.0	-57.03	-25	-32.03	-64.6	5.46	13.03	Horizontal	Pass
5002.0	-62.51	-25	-37.51	-68.08	4.57	10.14	Vertical	Pass
7503.0	-60.46	-25	-35.46	-67.26	4.94	11.74	Vertical	Pass
10004.0	-57.18	-25	-32.18	-64.75	5.46	13.03	Vertical	Pass

NR N7 ANT4-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#1								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5052.0	-63.03	-25	-38.03	-68.61	4.59	10.17	Horizontal	Pass
7578.0	-60.3	-25	-35.3	-67.18	4.95	11.83	Horizontal	Pass
10104.0	-56.98	-25	-31.98	-64.55	5.48	13.05	Horizontal	Pass
5052.0	-57.63	-25	-32.63	-63.21	4.59	10.17	Vertical	Pass
7578.0	-60.22	-25	-35.22	-67.1	4.95	11.83	Vertical	Pass
10104.0	-56.65	-25	-31.65	-64.22	5.48	13.05	Vertical	Pass

NR N7 ANT4-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#1								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5102.0	-64.07	-25	-39.07	-69.67	4.6	10.2	Horizontal	Pass
7653.0	-60.2	-25	-35.2	-67.17	4.95	11.92	Horizontal	Pass
10204.0	-57.19	-25	-32.19	-64.77	5.49	13.07	Horizontal	Pass
5102.0	-59.32	-25	-34.32	-64.92	4.6	10.2	Vertical	Pass
7653.0	-60.22	-25	-35.22	-67.19	4.95	11.92	Vertical	Pass
10204.0	-57.46	-25	-32.46	-65.04	5.49	13.07	Vertical	Pass

NSA_2A_n7A-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5002.0	-58.9	-25	-33.9	-64.47	4.57	10.14	Horizontal	Pass
7503.0	-60.58	-25	-35.58	-67.38	4.94	11.74	Horizontal	Pass
10004.0	-57.41	-25	-32.41	-64.98	5.46	13.03	Horizontal	Pass
5002.0	-62.7	-25	-37.7	-68.27	4.57	10.14	Vertical	Pass
7503.0	-60.59	-25	-35.59	-67.39	4.94	11.74	Vertical	Pass
10004.0	-57.17	-25	-32.17	-64.74	5.46	13.03	Vertical	Pass

NSA_2A_n7A-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5052.0	-61.36	-25	-36.36	-66.94	4.59	10.17	Horizontal	Pass
7578.0	-60.61	-25	-35.61	-67.49	4.95	11.83	Horizontal	Pass
10104.0	-56.92	-25	-31.92	-64.49	5.48	13.05	Horizontal	Pass
5052.0	-62.35	-25	-37.35	-67.93	4.59	10.17	Vertical	Pass
7578.0	-60.35	-25	-35.35	-67.23	4.95	11.83	Vertical	Pass
10104.0	-57.22	-25	-32.22	-64.79	5.48	13.05	Vertical	Pass

NSA_2A_n7A-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5102.0	-63.7	-25	-38.7	-69.3	4.6	10.2	Horizontal	Pass
7653.0	-60.69	-25	-35.69	-67.66	4.95	11.92	Horizontal	Pass
10204.0	-57.68	-25	-32.68	-65.26	5.49	13.07	Horizontal	Pass
5102.0	-64.1	-25	-39.1	-69.7	4.6	10.2	Vertical	Pass
7653.0	-60.54	-25	-35.54	-67.51	4.95	11.92	Vertical	Pass
10204.0	-58.14	-25	-33.14	-65.72	5.49	13.07	Vertical	Pass