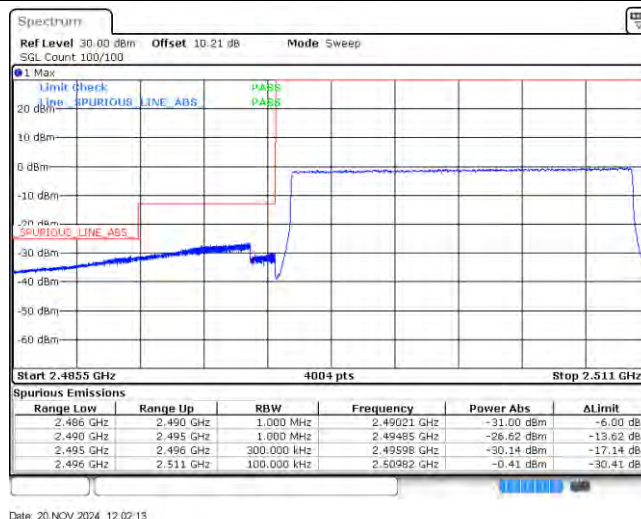
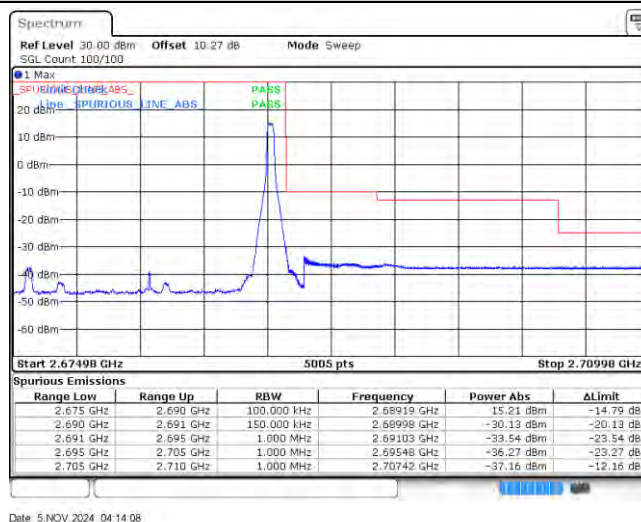
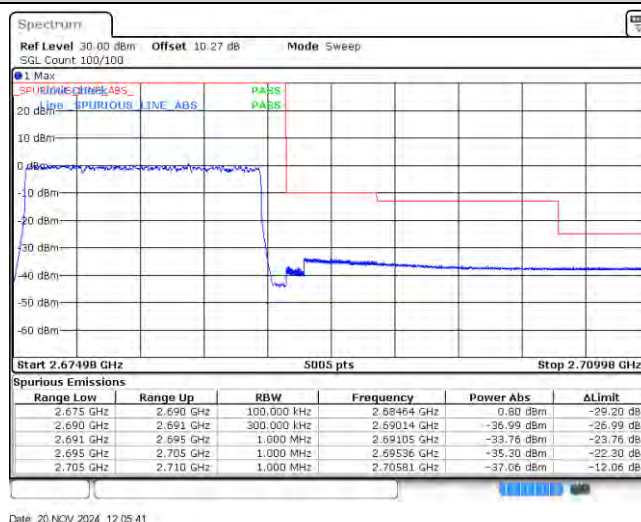




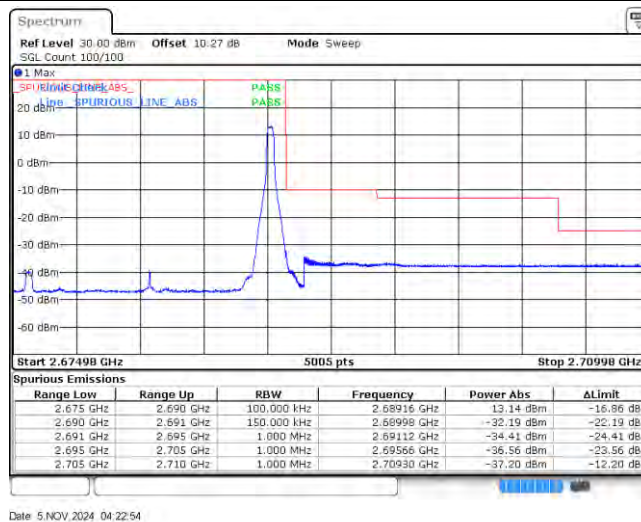
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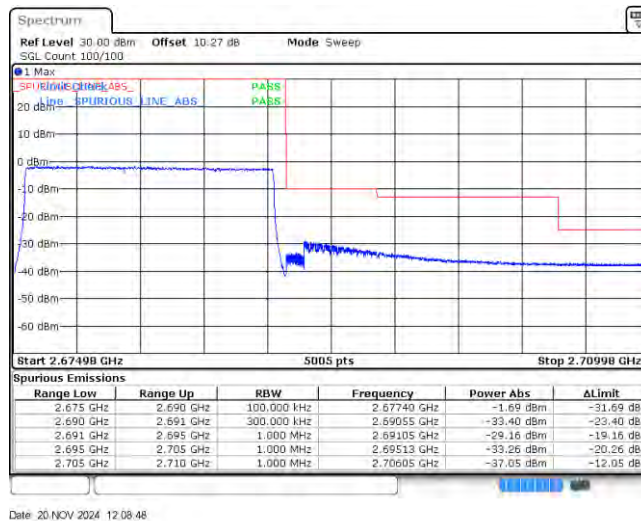
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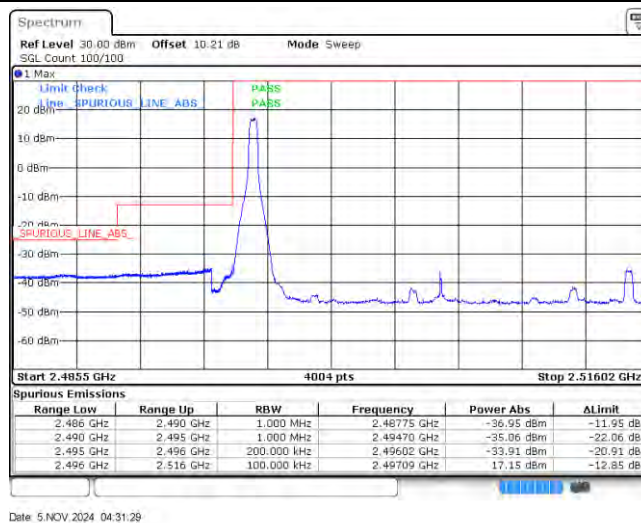
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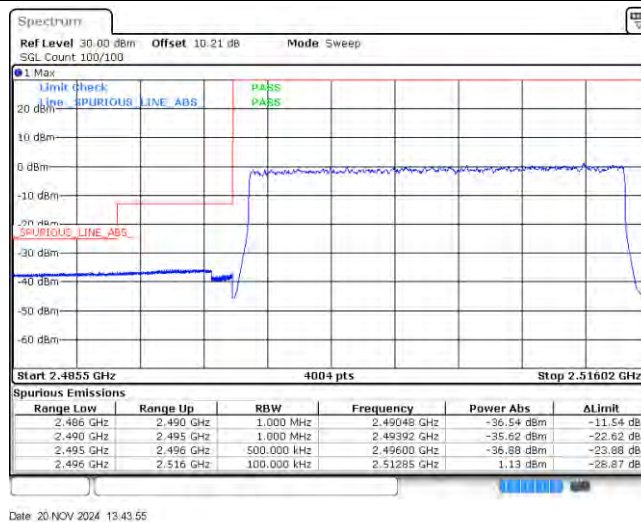
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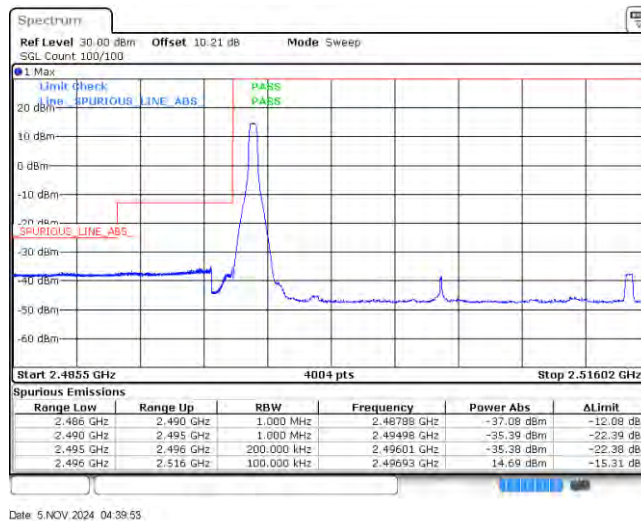
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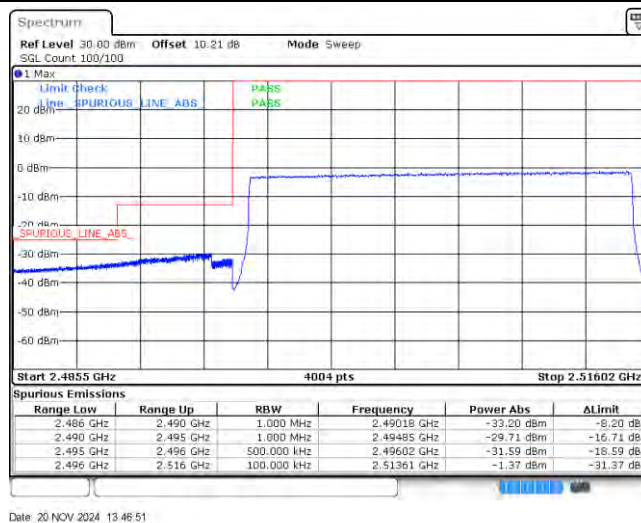
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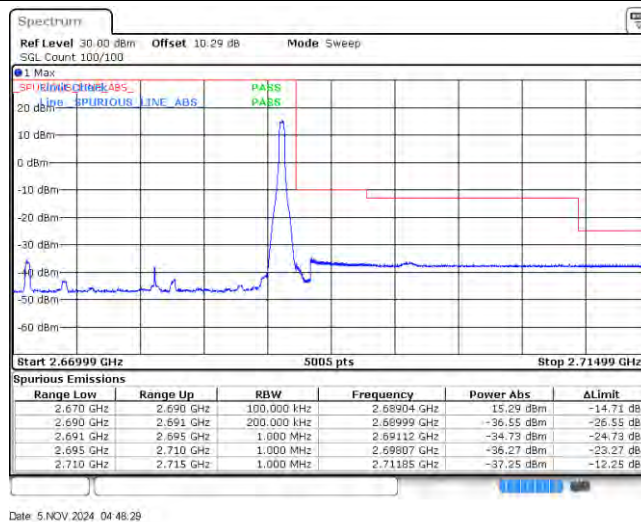
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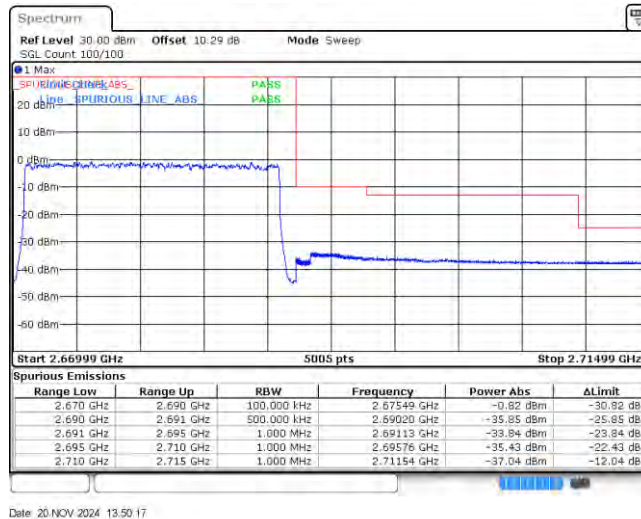
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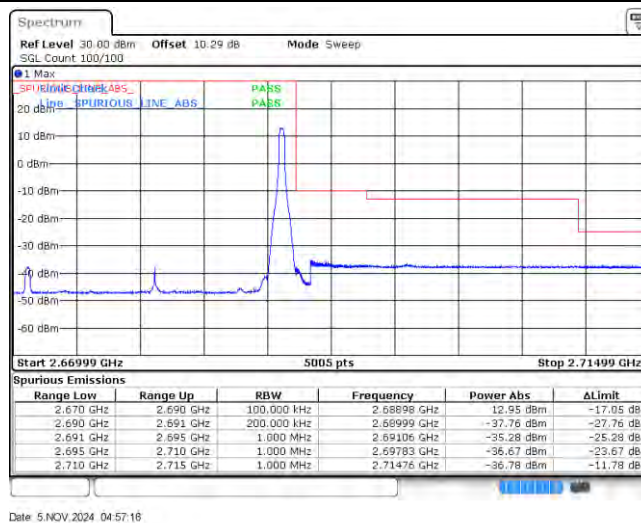
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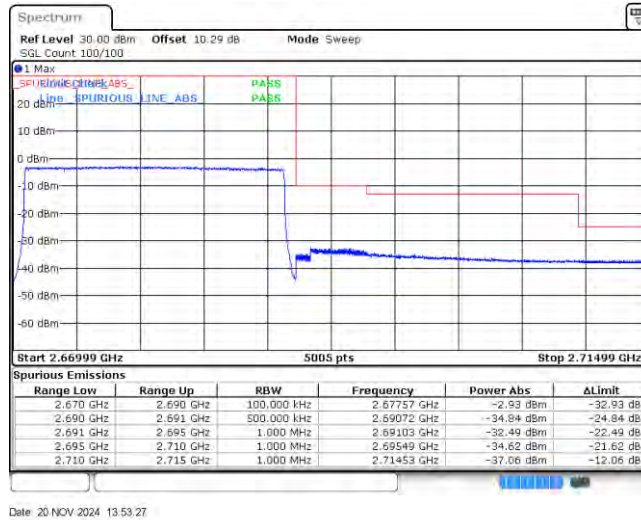
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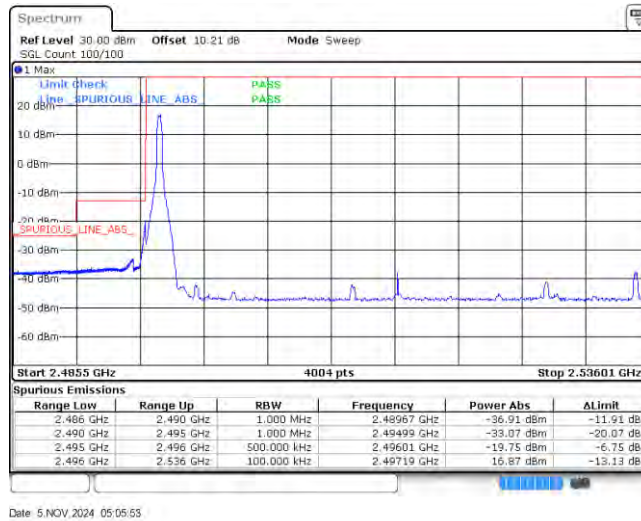
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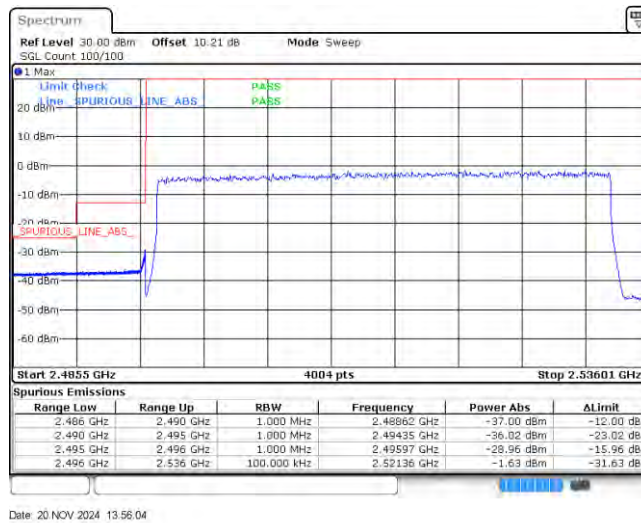
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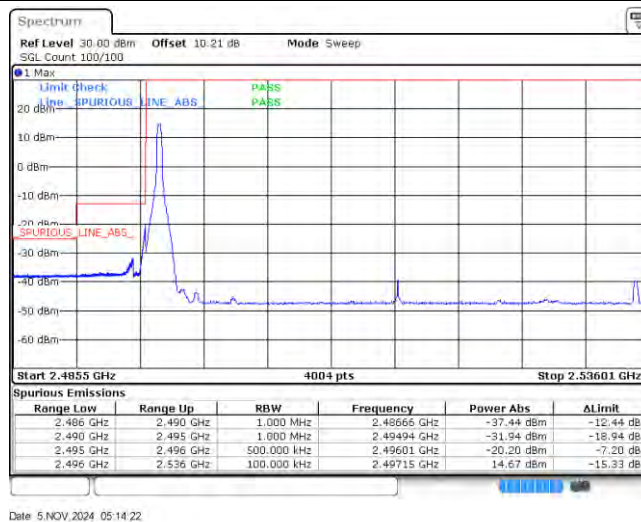
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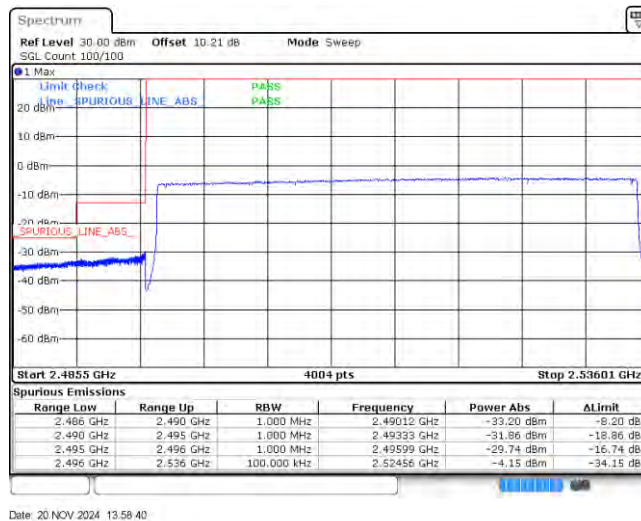
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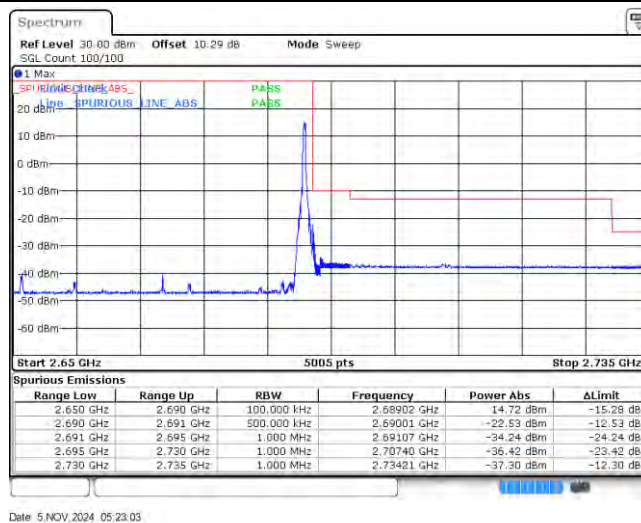
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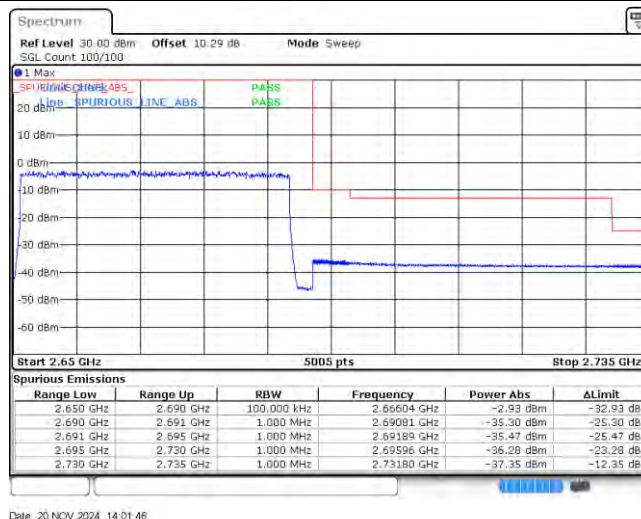
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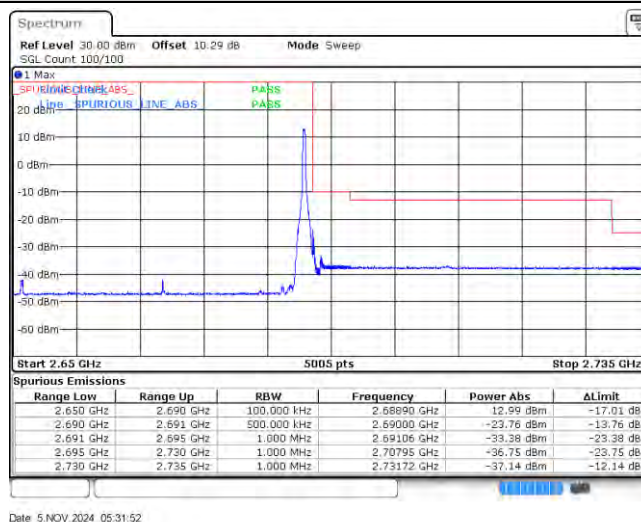
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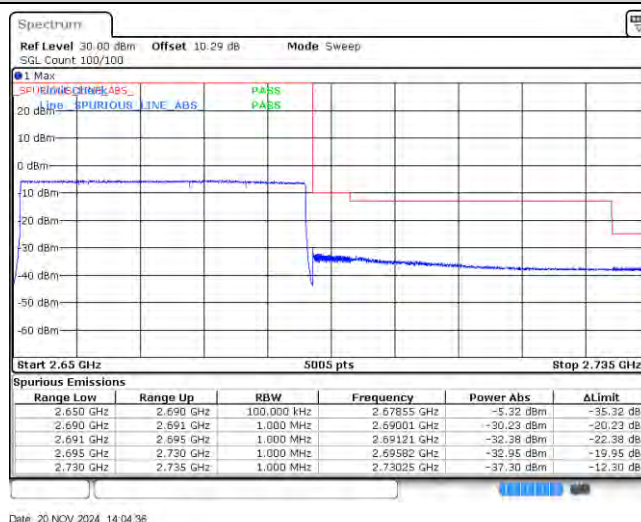
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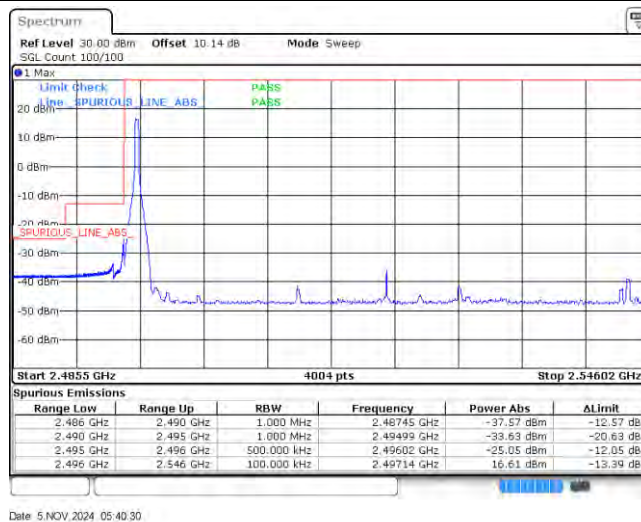
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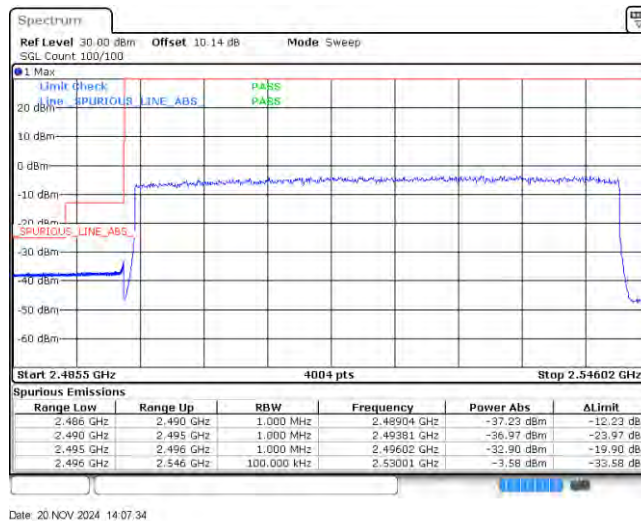
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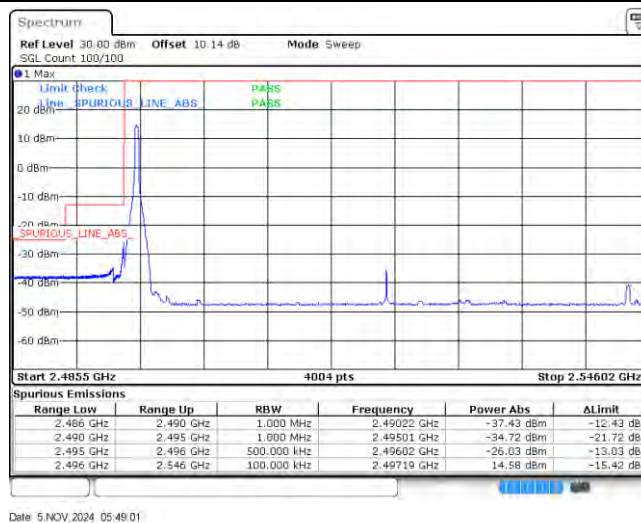
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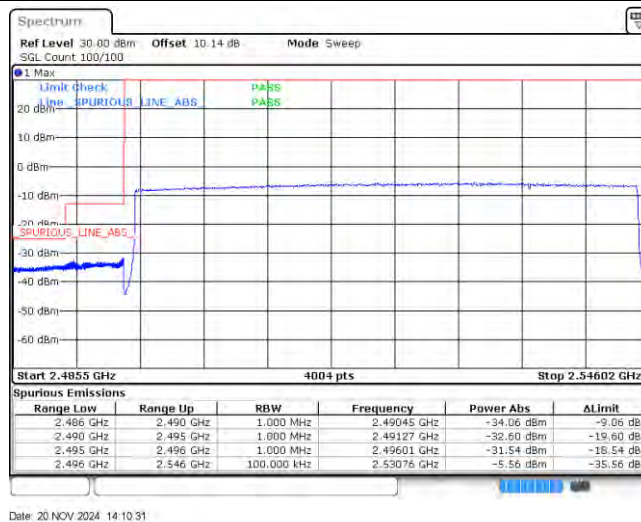
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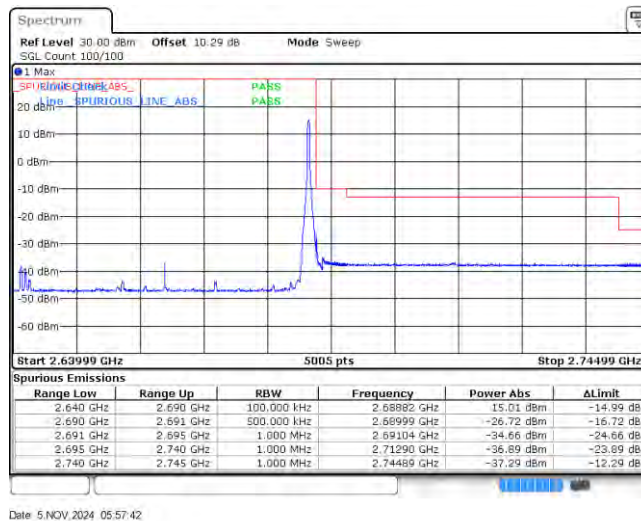
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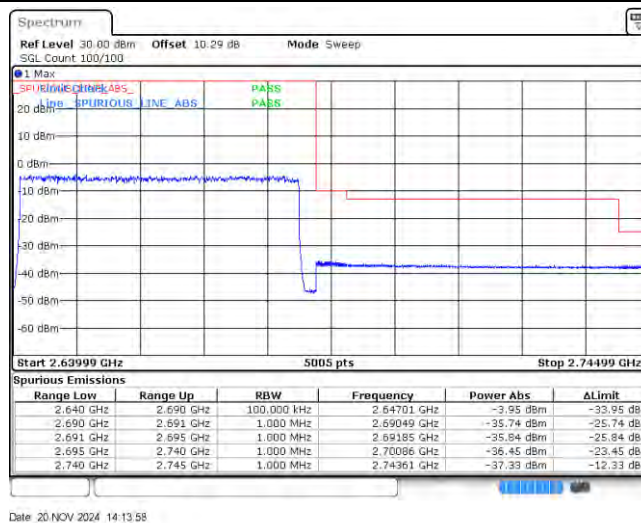
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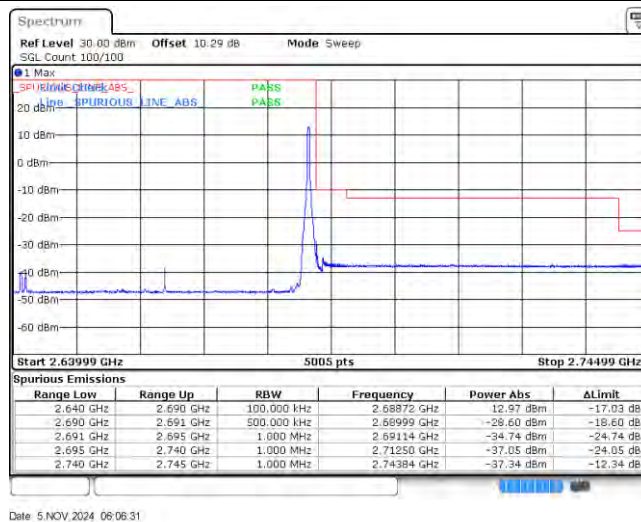
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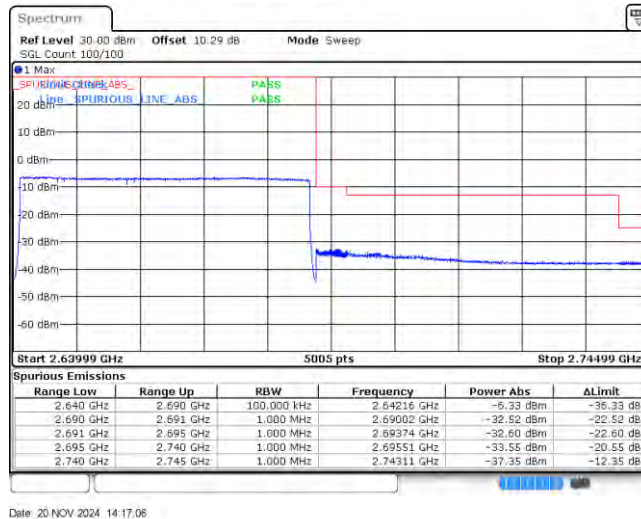
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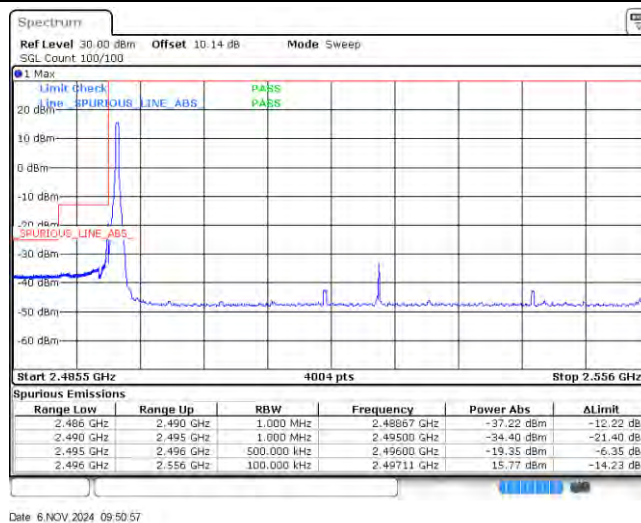
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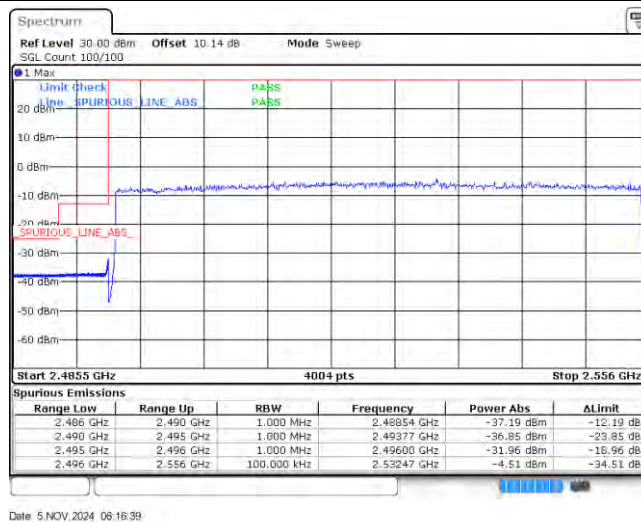
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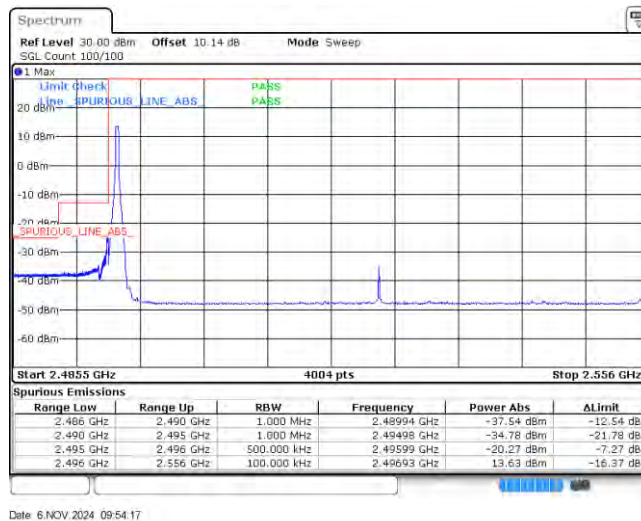
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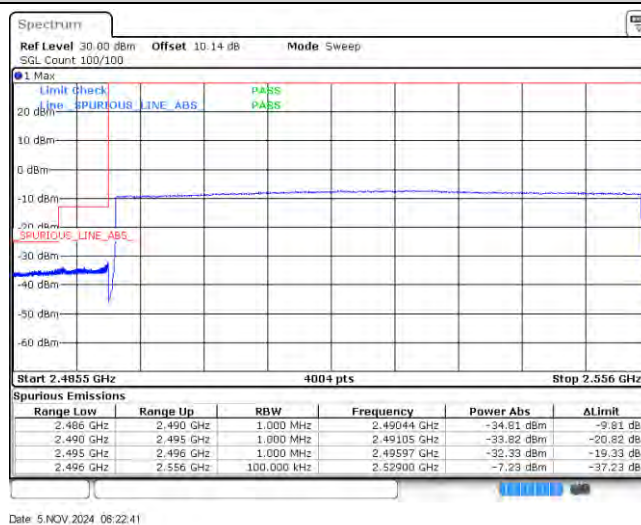
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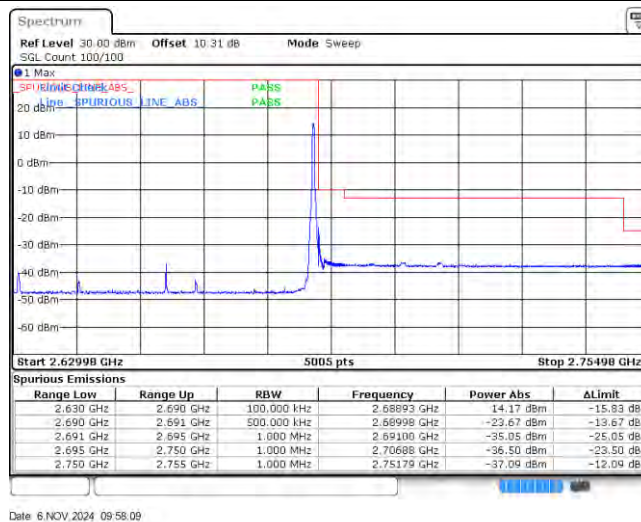
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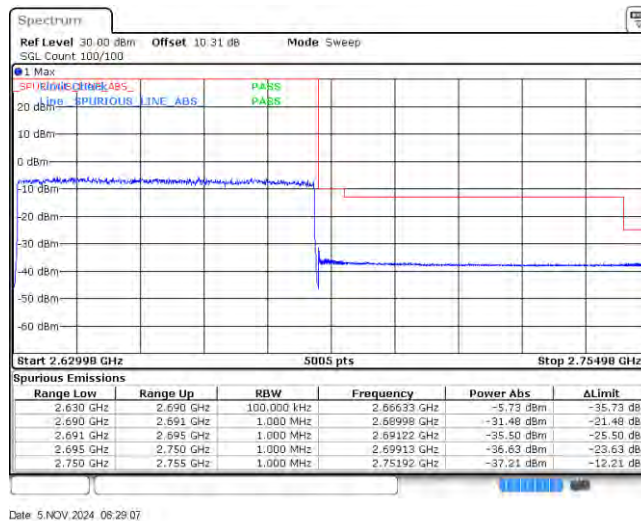
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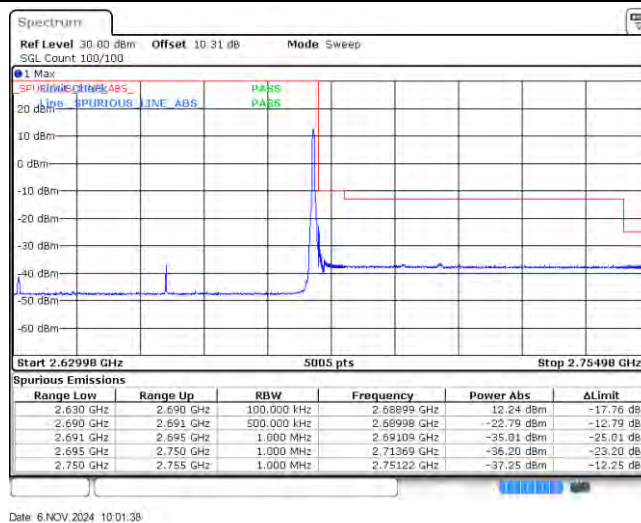
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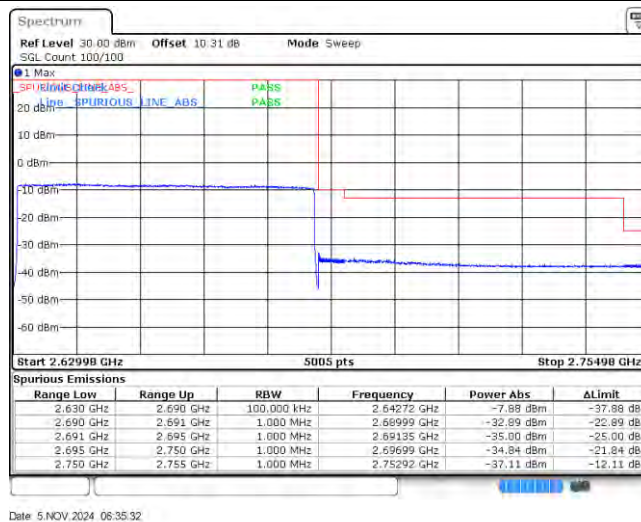
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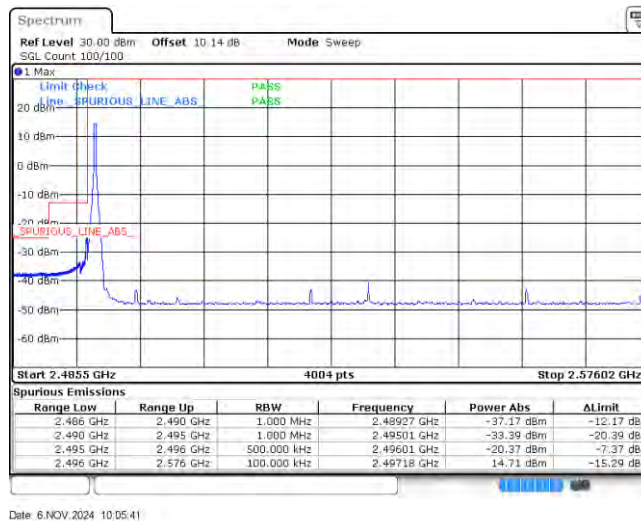
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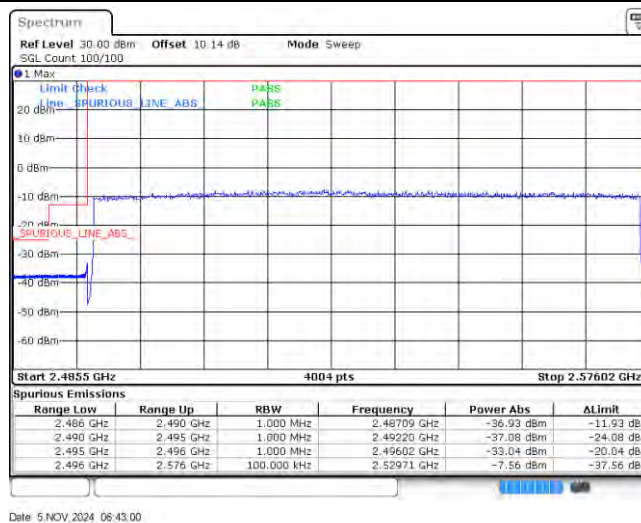
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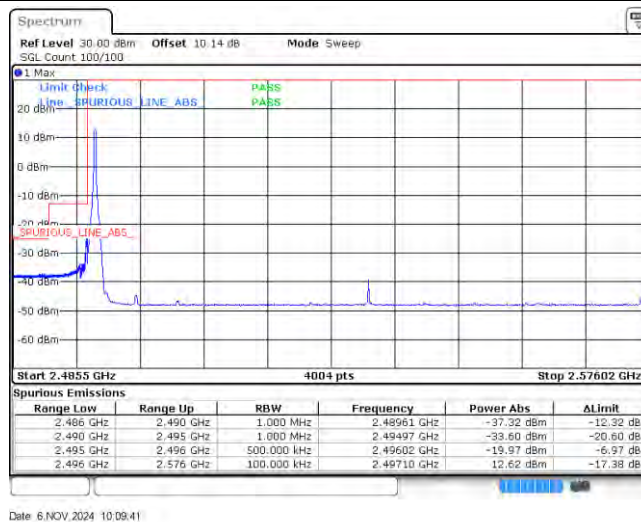
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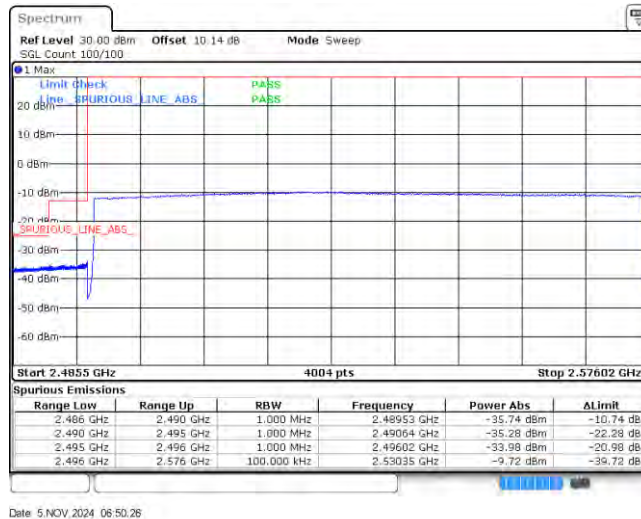
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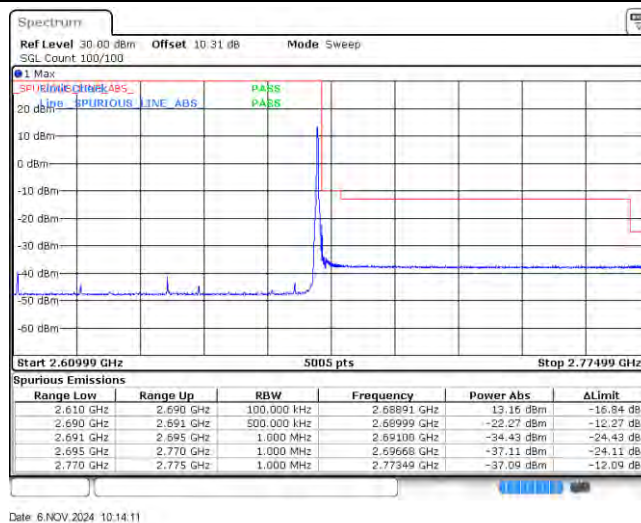
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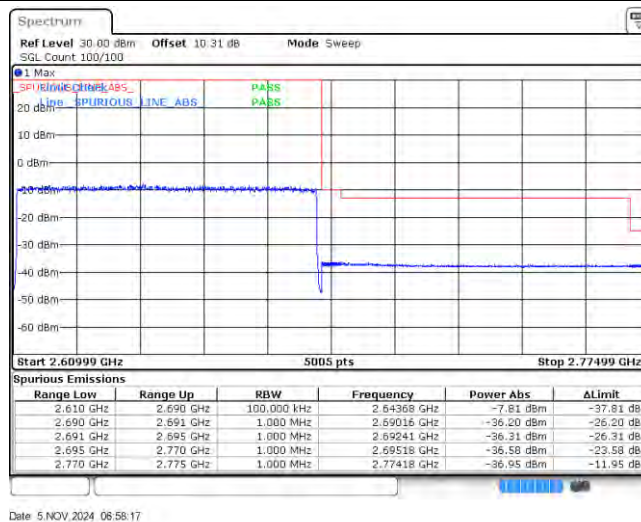
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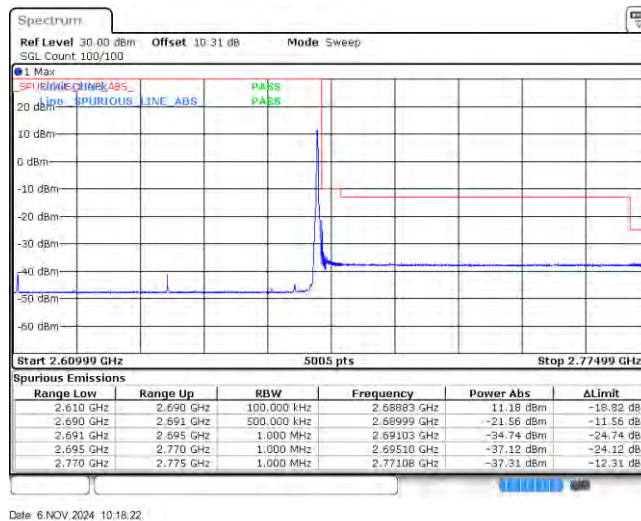
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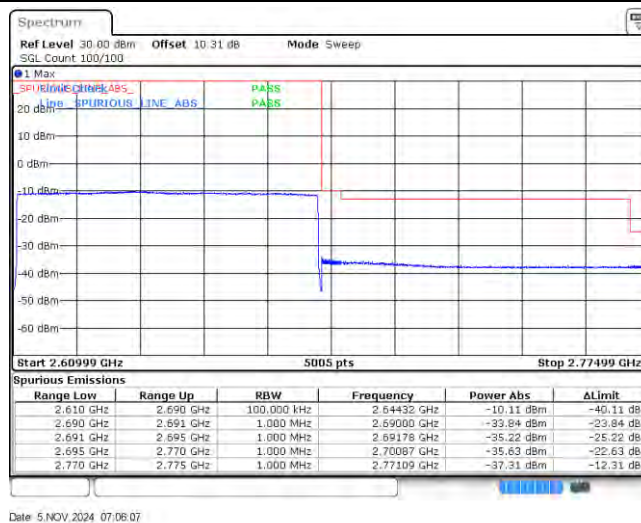
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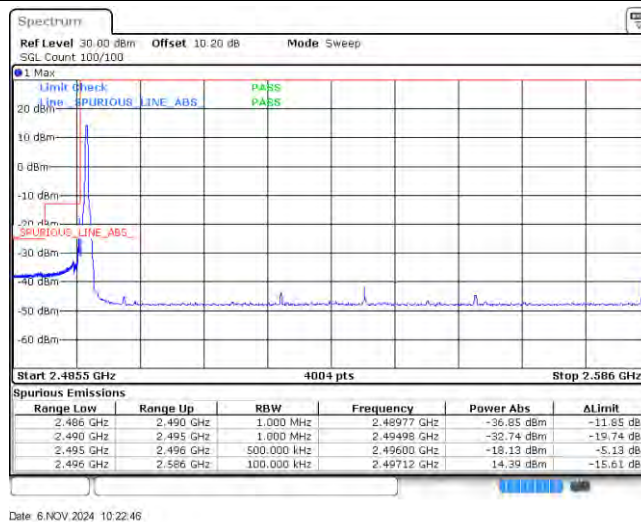
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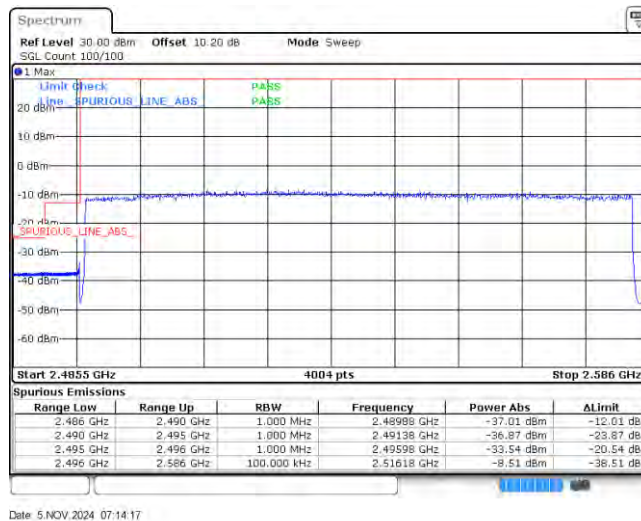
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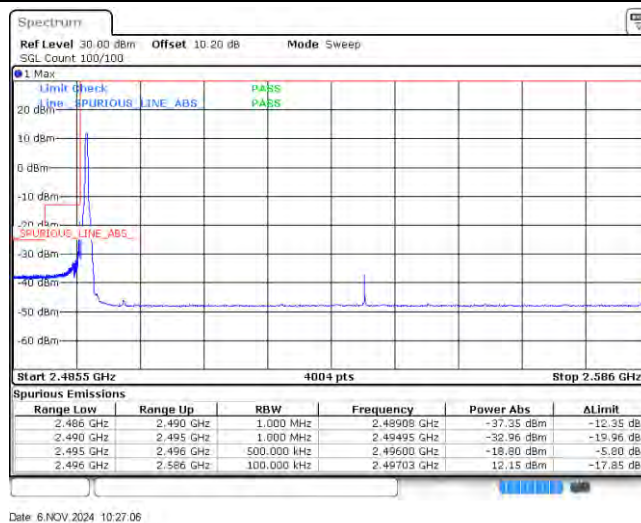
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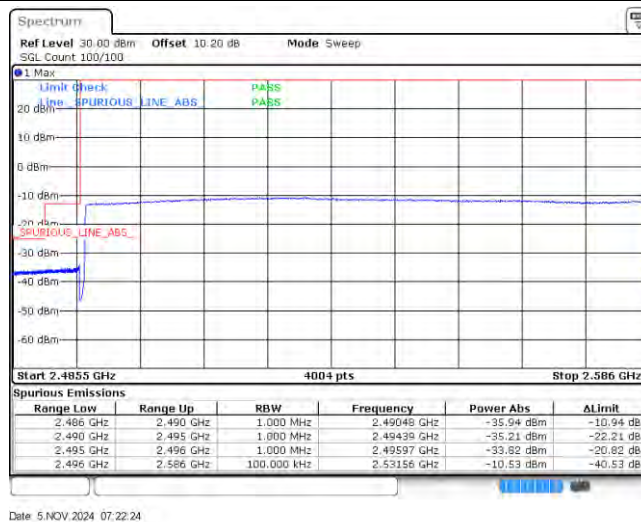
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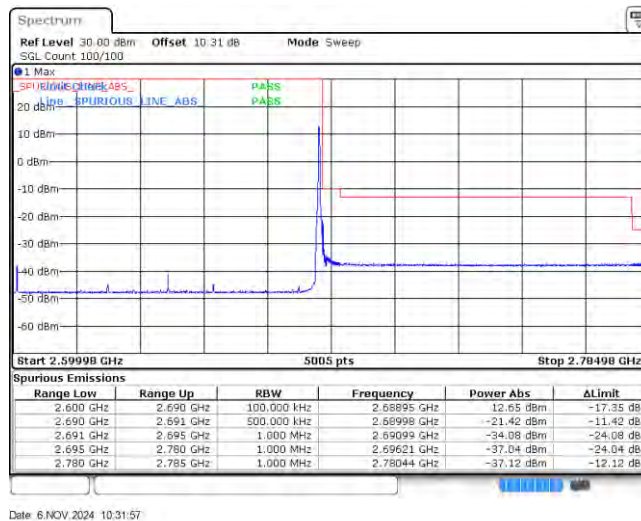
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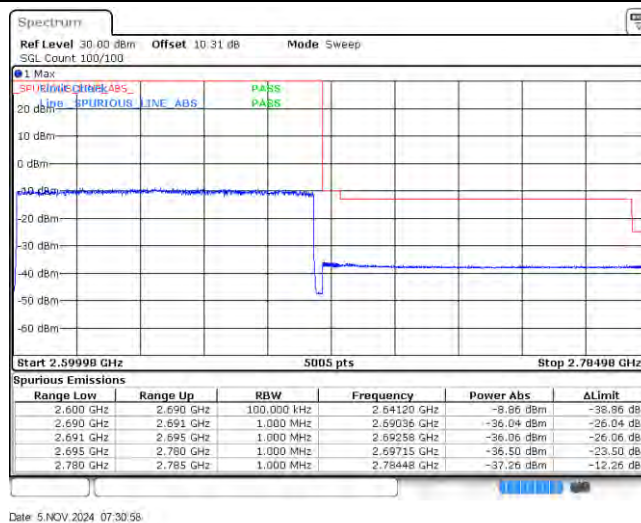
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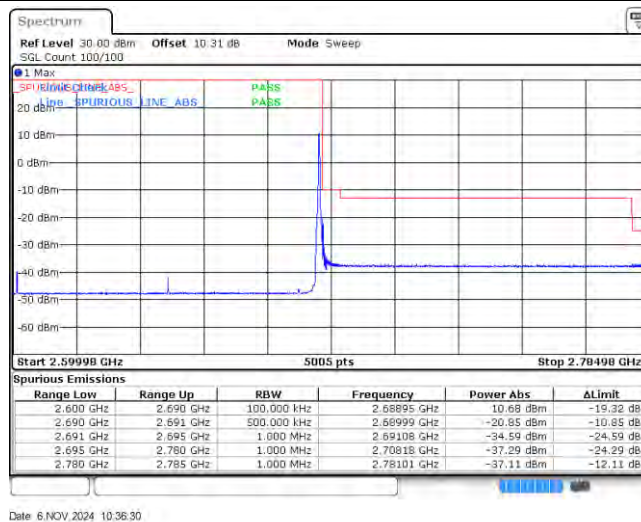
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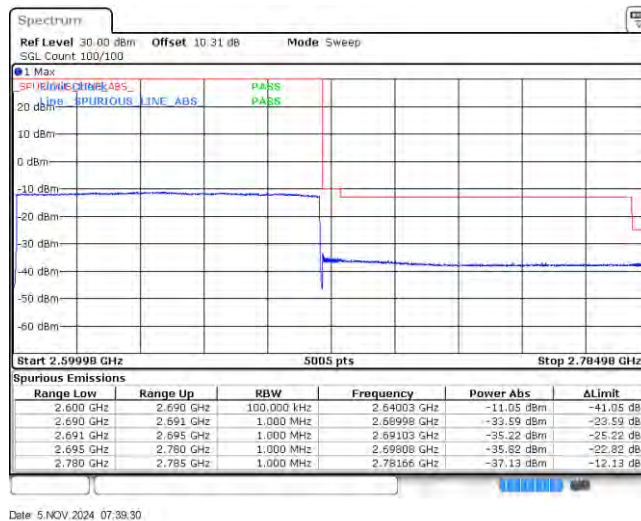
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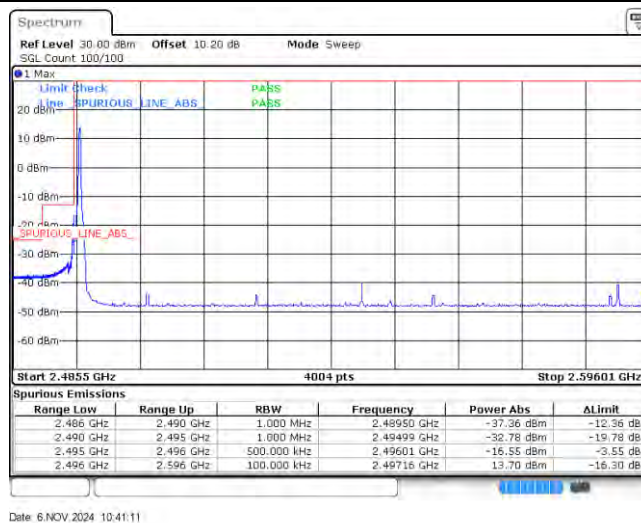
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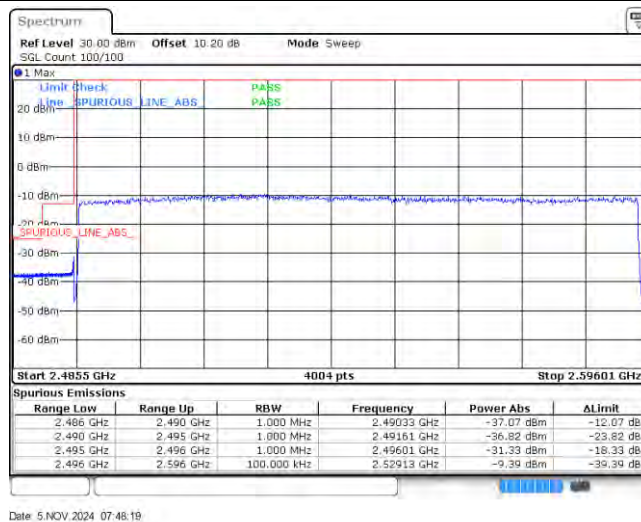
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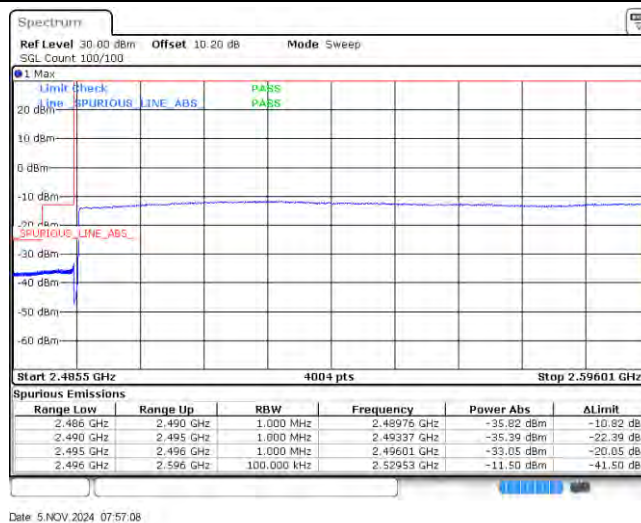
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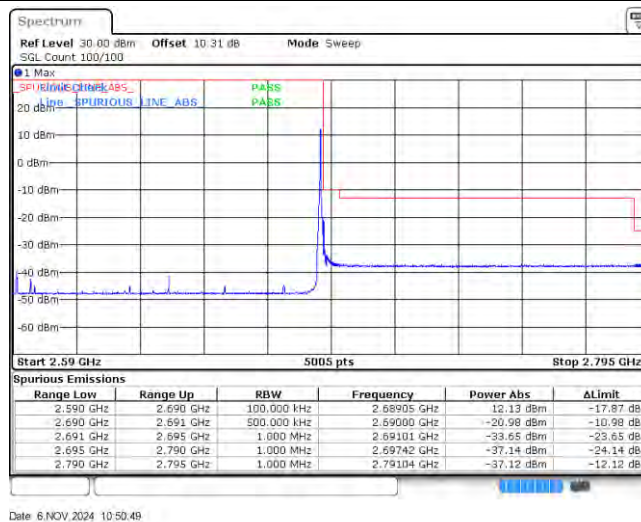
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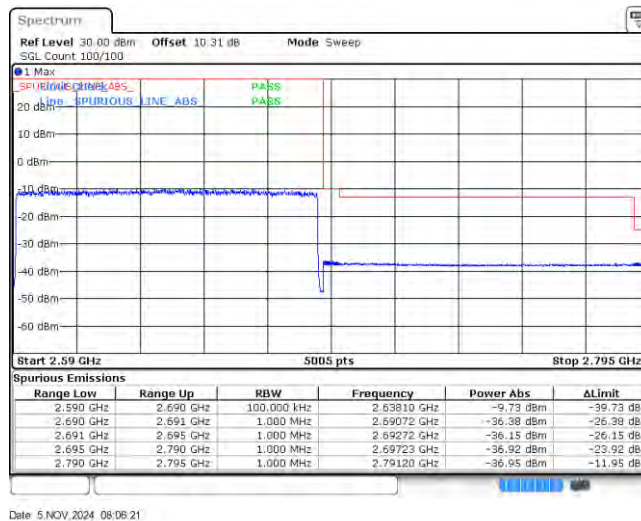
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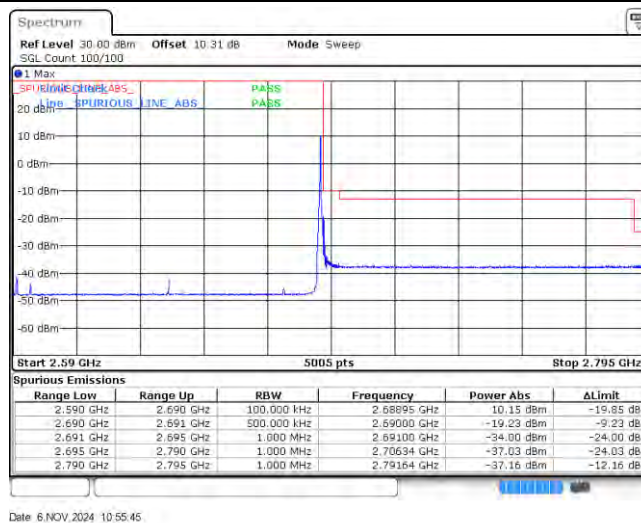
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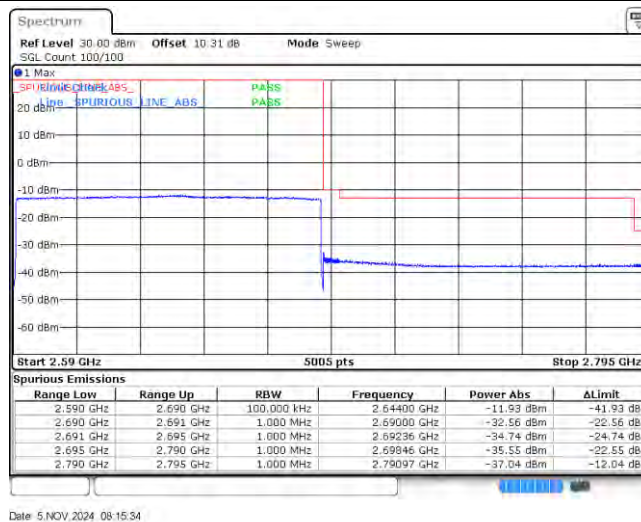
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1-N41-PC3-30-100-H-3-DFT-QPSK-Outer_Full-270@0-Ant4-2791.20-11.95--36.95-PASS



1-N41-PC3-30-100-H-5-CP-QPSK-Edge_1RB_Right-1@272-Ant4-2690.00-9.23--19.23-PASS



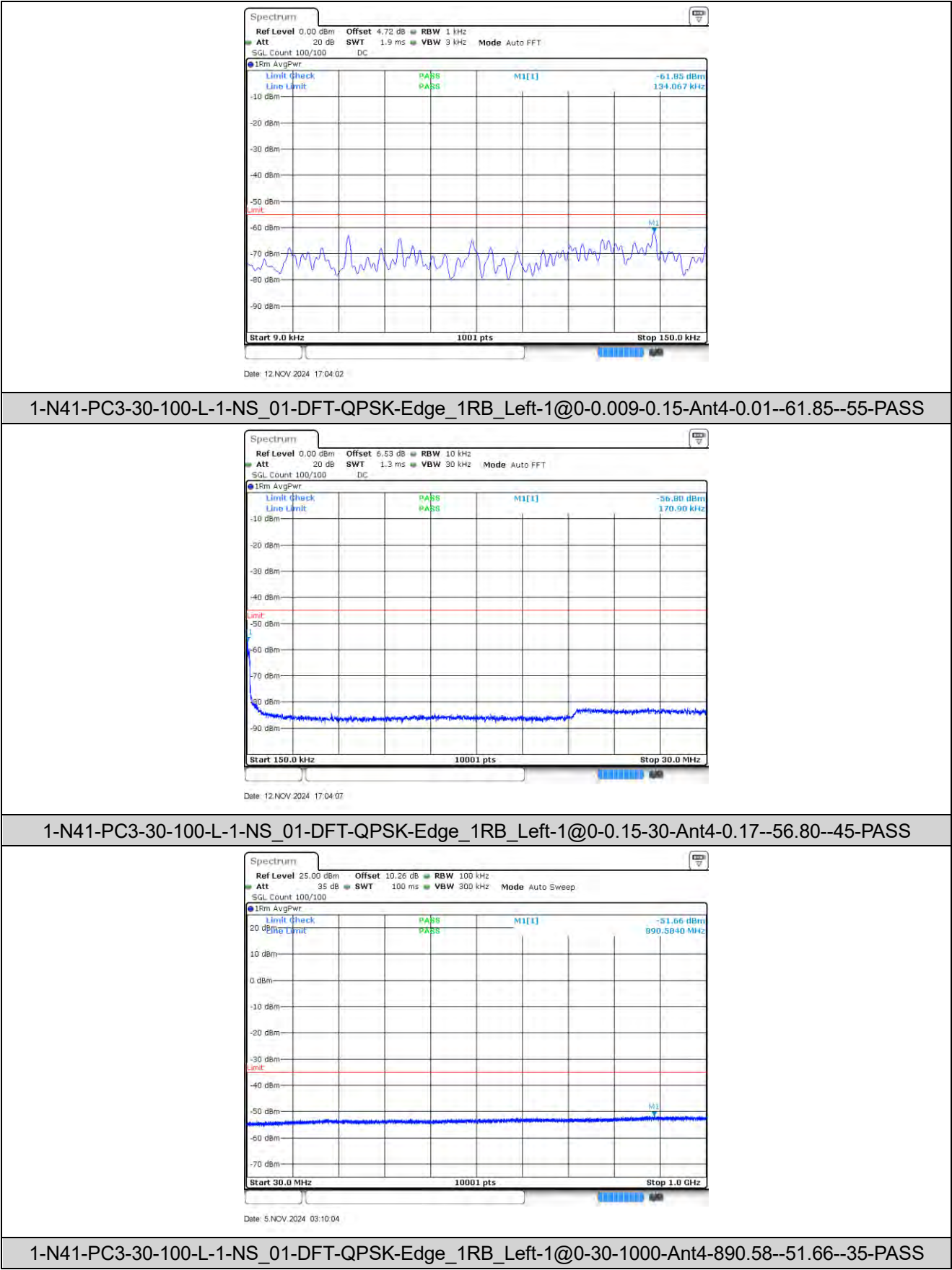
1-N41-PC3-30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant4-2790.97-12.04--37.04-PASS

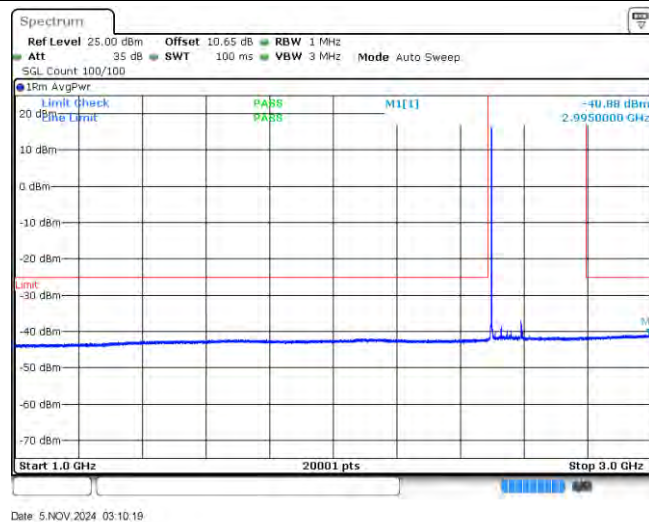
Conducted Spurious Emission for SA

Test Result

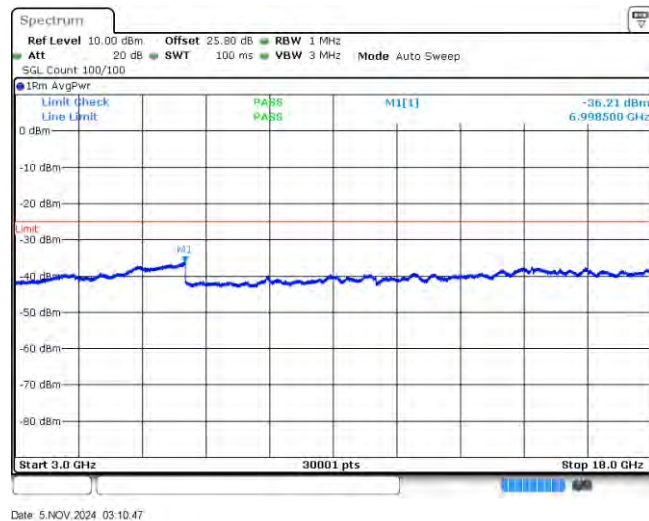
Band	SCS	Bandwidth	Modulation	Channel	StartFreq	StopFreq	RB Config	Result (dBm)	Limit (dBm)	Verdict
N41	30	100	DFT-QPSK	L	0.009	0.15	1@0	-61.85	-55	PASS
N41	30	100	DFT-QPSK	L	0.15	30	1@0	-56.80	-45	PASS
N41	30	100	DFT-QPSK	L	30	1000	1@0	-51.66	-35	PASS
N41	30	100	DFT-QPSK	L	1000	3000	1@0	-40.88	-25	PASS
N41	30	100	DFT-QPSK	L	3000	18000	1@0	-36.21	-25	PASS
N41	30	100	DFT-QPSK	L	18000	30000	1@0	-39.97	-25	PASS
N41	30	100	DFT-QPSK	M	0.009	0.15	1@0	-62.03	-55	PASS
N41	30	100	DFT-QPSK	M	0.15	30	1@0	-56.96	-45	PASS
N41	30	100	DFT-QPSK	M	30	1000	1@0	-51.53	-35	PASS
N41	30	100	DFT-QPSK	M	1000	3000	1@0	-40.90	-25	PASS
N41	30	100	DFT-QPSK	M	3000	18000	1@0	-36.10	-25	PASS
N41	30	100	DFT-QPSK	M	18000	30000	1@0	-40.04	-25	PASS
N41	30	100	DFT-QPSK	H	0.009	0.15	1@0	-62.24	-55	PASS
N41	30	100	DFT-QPSK	H	0.15	30	1@0	-57.19	-45	PASS
N41	30	100	DFT-QPSK	H	30	1000	1@0	-51.61	-35	PASS
N41	30	100	DFT-QPSK	H	1000	3000	1@0	-40.92	-25	PASS
N41	30	100	DFT-QPSK	H	3000	18000	1@0	-36.27	-25	PASS
N41	30	100	DFT-QPSK	H	18000	30000	1@0	-39.97	-25	PASS

Test Graphs

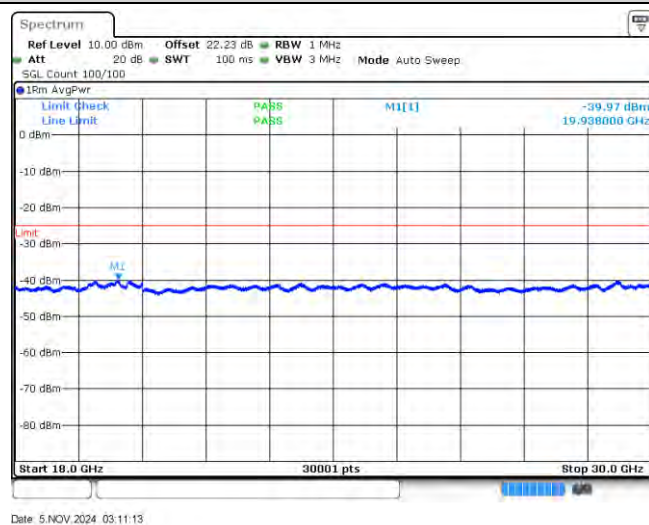




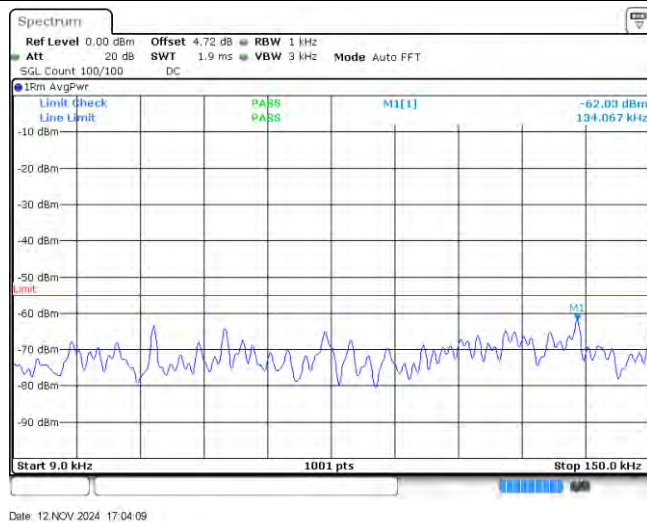
1-N41-PC3-30-100-L-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-1000-3000-Ant4-2995.00--40.88--25-PASS



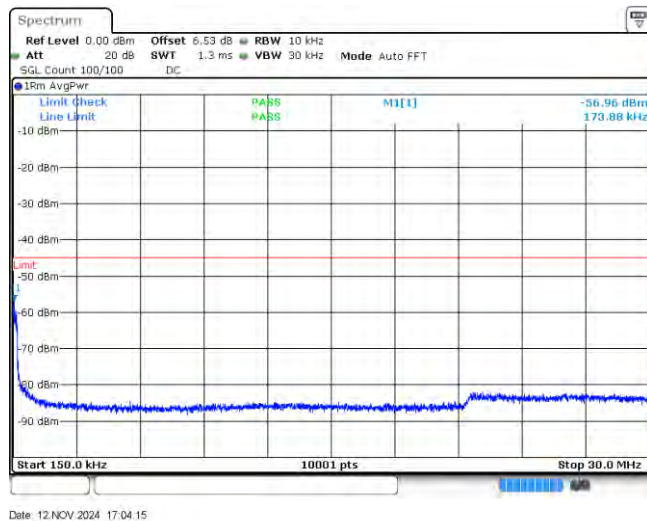
1-N41-PC3-30-100-L-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-3000-18000-Ant4-6998.50--36.21--25-PASS



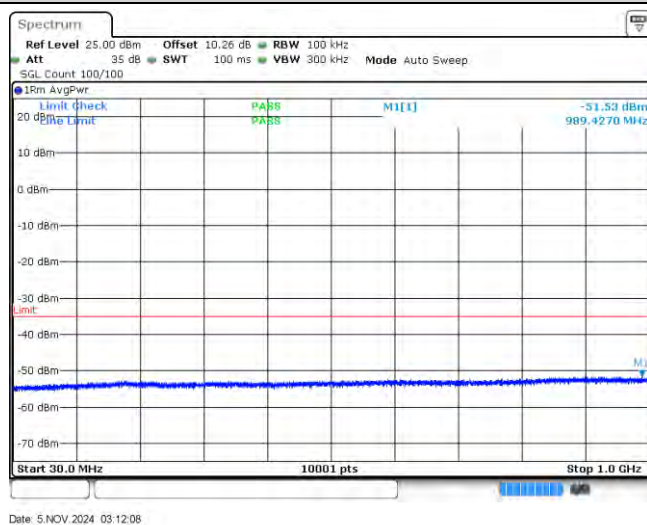
1-N41-PC3-30-100-L-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-18000-30000-Ant4-19938.00--39.97--25-PASS



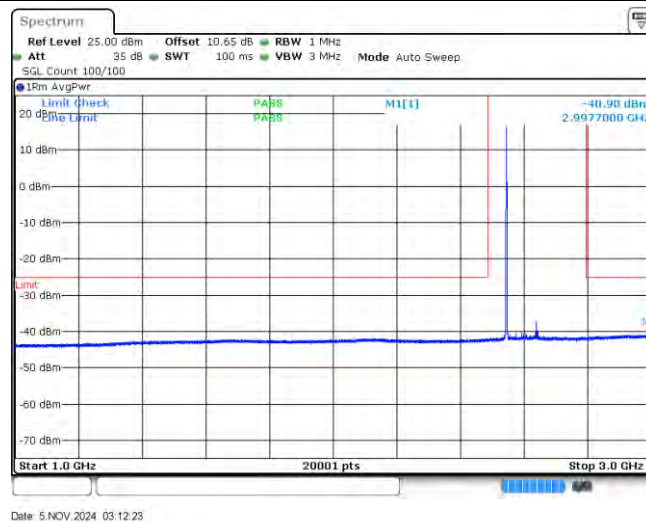
1-N41-PC3-30-100-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant4-0.04--62.03--55-PASS



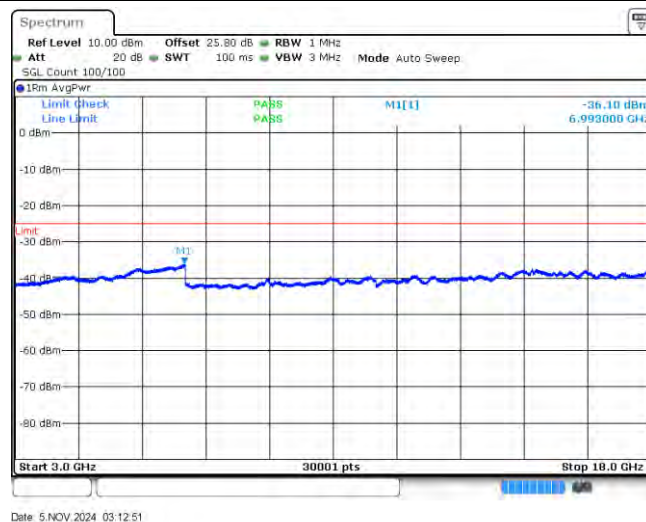
1-N41-PC3-30-100-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-0.15-30-Ant4-0.15--56.96--45-PASS



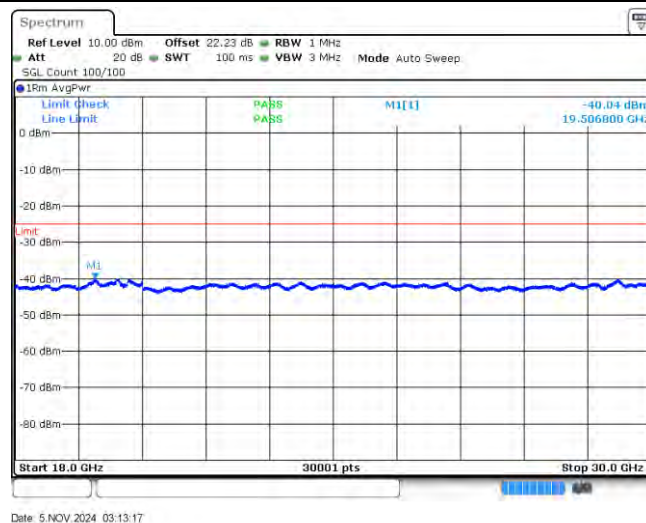
1-N41-PC3-30-100-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-30-1000-Ant4-989.43--51.53--35-PASS



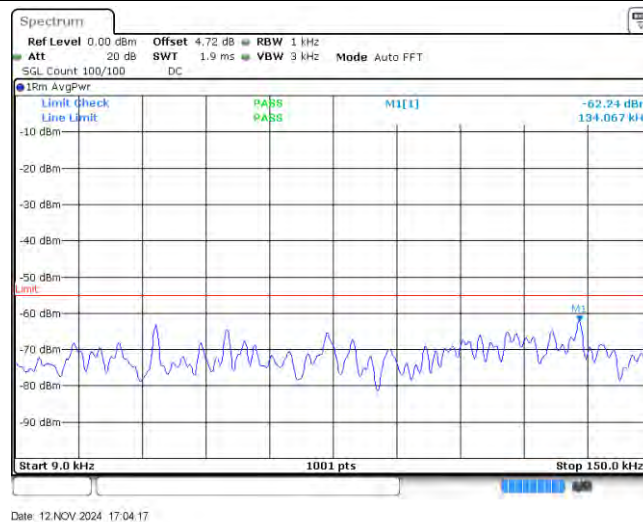
1-N41-PC3-30-100-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-1000-3000-Ant4-2997.70--40.90--25-PAS
S



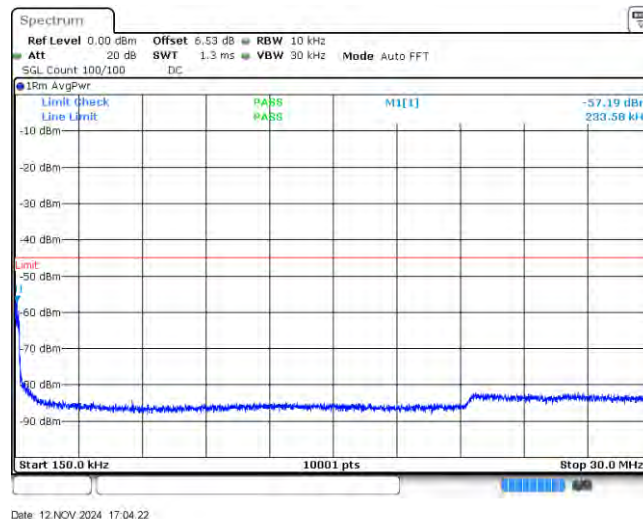
1-N41-PC3-30-100-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-3000-18000-Ant4-6993.00--36.10--25-PA
SS



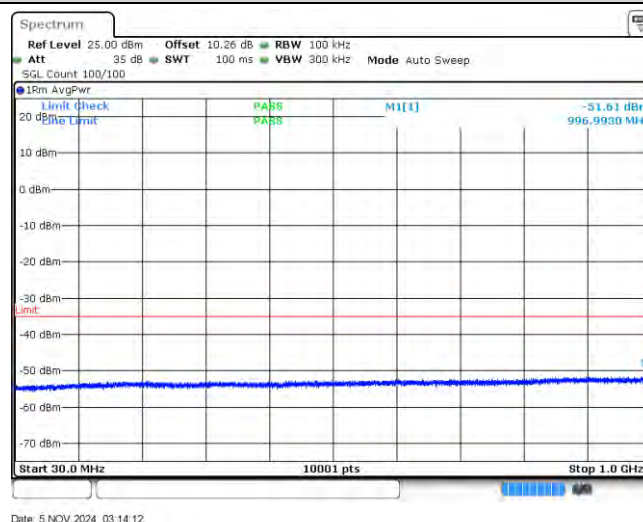
1-N41-PC3-30-100-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-18000-30000-Ant4-19506.80--40.04--25-P
ASS



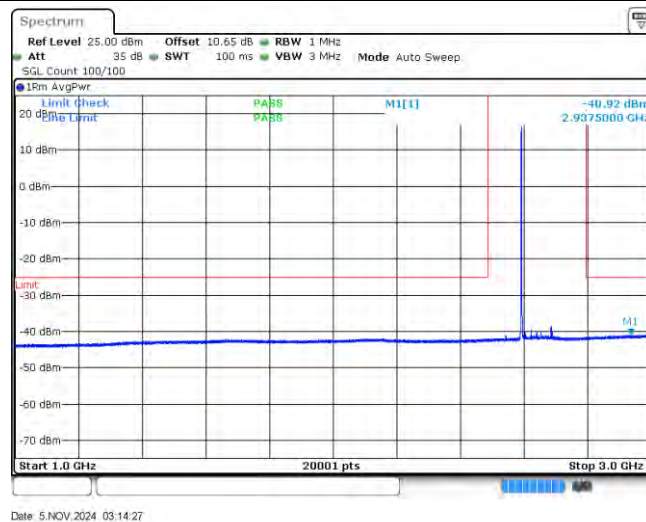
1-N41-PC3-30-100-H-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant4-0.13--62.24--55-PASS



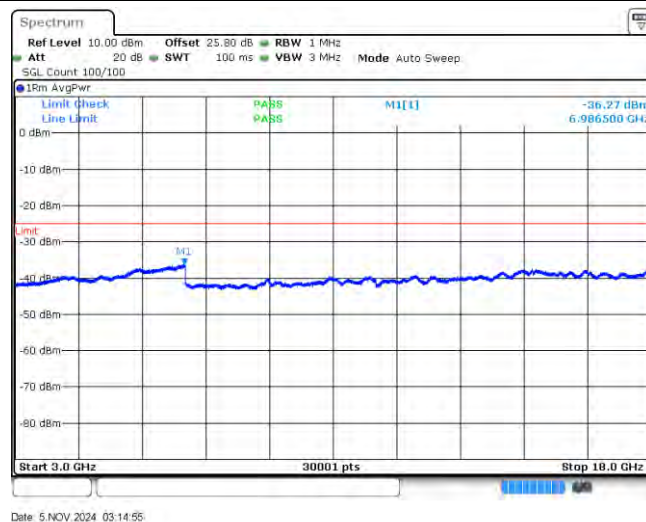
1-N41-PC3-30-100-H-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-0.15-30-Ant4-0.23--57.19--45-PASS



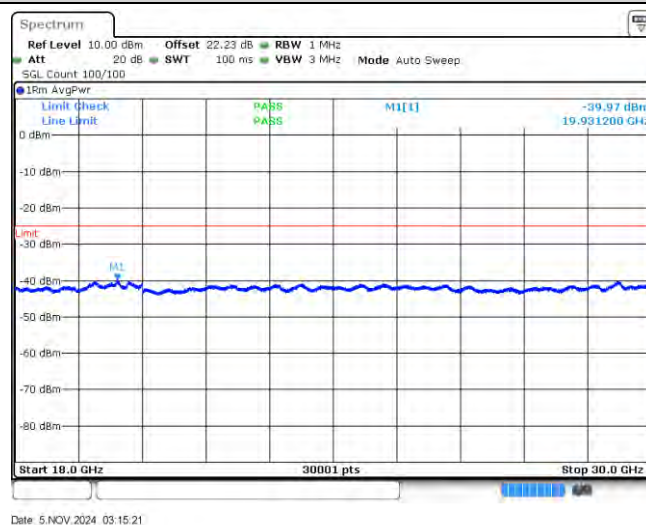
1-N41-PC3-30-100-H-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-30-1000-Ant4-996.99--51.61--35-PASS



1-N41-PC3-30-100-H-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-1000-3000-Ant4-2937.50--40.92--25-PAS
S



1-N41-PC3-30-100-H-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-3000-18000-Ant4-6986.50--36.27--25-PAS
S



1-N41-PC3-30-100-H-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-18000-30000-Ant4-19931.20--39.97--25-P
ASS

Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(℃)	Deviation(Hz)	Deviation (ppm)	Verdict
N41	30	100	DFT-QPSK	M	270@0	NV	NT	-14.79	-0.00570	PASS
N41	30	100	DFT-QPSK	M	270@0	LV	NT	-25.44	-0.00981	PASS
N41	30	100	DFT-QPSK	M	270@0	HV	NT	-13.26	-0.00511	PASS
N41	30	100	CP-QPSK	M	273@0	NV	NT	-10.65	-0.00411	PASS
N41	30	100	CP-QPSK	M	273@0	LV	NT	-22.77	-0.00878	PASS
N41	30	100	CP-QPSK	M	273@0	HV	NT	-9.69	-0.00374	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(℃)	Deviation(Hz)	Deviation (ppm)	Verdict
N41	30	100	DFT-QPSK	M	270@0	NV	-20	-6.114000	-0.002358	PASS
N41	30	100	DFT-QPSK	M	270@0	NV	50	-3.915000	-0.001510	PASS
N41	30	100	DFT-QPSK	M	270@0	NV	40	-3.698000	-0.001426	PASS
N41	30	100	DFT-QPSK	M	270@0	NV	10	-4.235000	-0.001633	PASS
N41	30	100	DFT-QPSK	M	270@0	NV	-10	-6.912000	-0.002666	PASS
N41	30	100	DFT-QPSK	M	270@0	NV	-30	-6.437000	-0.002482	PASS
N41	30	100	DFT-QPSK	M	270@0	NV	30	-4.262000	-0.001644	PASS
N41	30	100	DFT-QPSK	M	270@0	NV	0	-8.988000	-0.003466	PASS
N41	30	100	DFT-QPSK	M	270@0	NV	20	-4.468000	-0.001723	PASS
N41	30	100	CP-QPSK	M	273@0	NV	0	-6.749000	-0.002603	PASS
N41	30	100	CP-QPSK	M	273@0	NV	10	-8.546000	-0.003296	PASS
N41	30	100	CP-QPSK	M	273@0	NV	-10	-5.102000	-0.001968	PASS
N41	30	100	CP-QPSK	M	273@0	NV	-20	-4.511000	-0.001740	PASS
N41	30	100	CP-QPSK	M	273@0	NV	50	-6.243000	-0.002408	PASS
N41	30	100	CP-QPSK	M	273@0	NV	30	-6.351000	-0.002449	PASS
N41	30	100	CP-QPSK	M	273@0	NV	-30	-4.648000	-0.001793	PASS
N41	30	100	CP-QPSK	M	273@0	NV	40	-3.509000	-0.001353	PASS
N41	30	100	CP-QPSK	M	273@0	NV	20	-9.393000	-0.003622	PASS

Field Strength of Spurious Radiation

NR N41 ANT1-Low channel, Modulation: QPSK, Bandwidth:100MHz, 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
5002.02	-62.65	-25	-37.65	-68.22	4.57	10.14	Horizontal	Pass
7503.03	-60.33	-25	-35.33	-67.13	4.94	11.74	Horizontal	Pass
10004.04	-56.99	-25	-31.99	-64.56	5.46	13.03	Horizontal	Pass
5002.02	-62.86	-25	-37.86	-68.43	4.57	10.14	Vertical	Pass
7503.03	-57.37	-25	-32.37	-64.17	4.94	11.74	Vertical	Pass
10004.04	-57.29	-25	-32.29	-64.86	5.46	13.03	Vertical	Pass

NR N41 ANT1-Middle channel, Modulation: QPSK, Bandwidth:100MHz, 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
5095.98	-63.27	-25	-38.27	-68.87	4.6	10.2	Horizontal	Pass
7643.97	-60.05	-25	-35.05	-67.01	4.95	11.91	Horizontal	Pass
10191.96	-54.36	-25	-29.36	-61.93	5.49	13.06	Horizontal	Pass
5095.98	-62.53	-25	-37.53	-68.13	4.6	10.2	Vertical	Pass
7643.97	-60.11	-25	-35.11	-67.07	4.95	11.91	Vertical	Pass
10191.96	-53.85	-25	-28.85	-61.42	5.49	13.06	Vertical	Pass

NR N41 ANT1-High channel, Modulation: QPSK, Bandwidth:100MHz, 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
5190.0	-63.85	-25	-38.85	-69.48	4.63	10.26	Horizontal	Pass
7785.0	-59.62	-25	-34.62	-66.74	4.96	12.08	Horizontal	Pass
10380.0	-57.21	-25	-32.21	-64.79	5.52	13.1	Horizontal	Pass
5190.0	-63.77	-25	-38.77	-69.4	4.63	10.26	Vertical	Pass
7785.0	-59.73	-25	-34.73	-66.85	4.96	12.08	Vertical	Pass
10380.0	-57.12	-25	-32.12	-64.7	5.52	13.1	Vertical	Pass

NSA_66A_n41A-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
5002.02	-58.91	-25	-33.91	-64.48	4.57	10.14	Horizontal	Pass
7503.03	-56.1	-25	-31.1	-62.9	4.94	11.74	Horizontal	Pass
10004.04	-57.01	-25	-32.01	-64.58	5.46	13.03	Horizontal	Pass
5002.02	-54.98	-25	-29.98	-60.55	4.57	10.14	Vertical	Pass
7503.03	-52.48	-25	-27.48	-59.28	4.94	11.74	Vertical	Pass
10004.04	-56.9	-25	-31.9	-64.47	5.46	13.03	Vertical	Pass

NSA_66A_n41A-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
5095.98	-63.1	-25	-38.1	-68.7	4.6	10.2	Horizontal	Pass
7643.97	-59.94	-25	-34.94	-66.9	4.95	11.91	Horizontal	Pass
10191.96	-56.19	-25	-31.19	-63.76	5.49	13.06	Horizontal	Pass
5095.98	-61.2	-25	-36.2	-66.8	4.6	10.2	Vertical	Pass
7643.97	-59.99	-25	-34.99	-66.95	4.95	11.91	Vertical	Pass
10191.96	-50.65	-25	-25.65	-58.22	5.49	13.06	Vertical	Pass

NSA_66A_n41A-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
5190.0	-63.47	-25	-38.47	-69.1	4.63	10.26	Horizontal	Pass
7785.0	-58.37	-25	-33.37	-65.49	4.96	12.08	Horizontal	Pass
10380.0	-56.41	-25	-31.41	-63.99	5.52	13.1	Horizontal	Pass
5190.0	-63.09	-25	-38.09	-68.72	4.63	10.26	Vertical	Pass
7785.0	-55.64	-25	-30.64	-62.76	4.96	12.08	Vertical	Pass
10380.0	-56.88	-25	-31.88	-64.46	5.52	13.1	Vertical	Pass