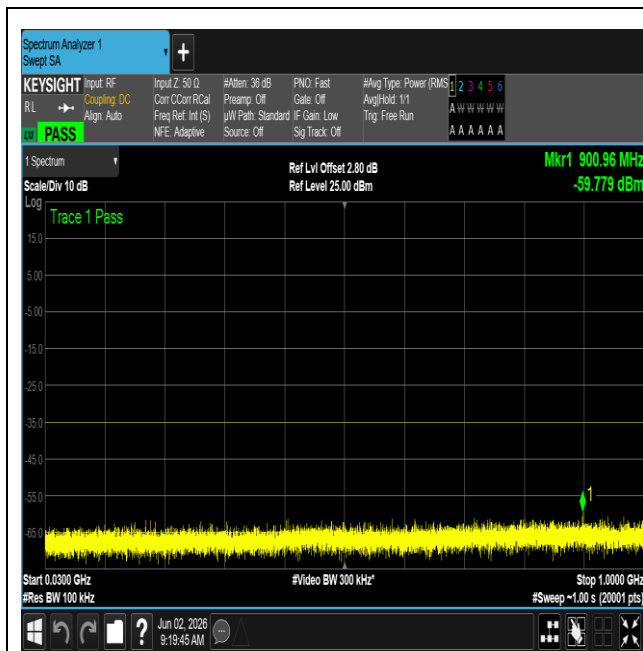
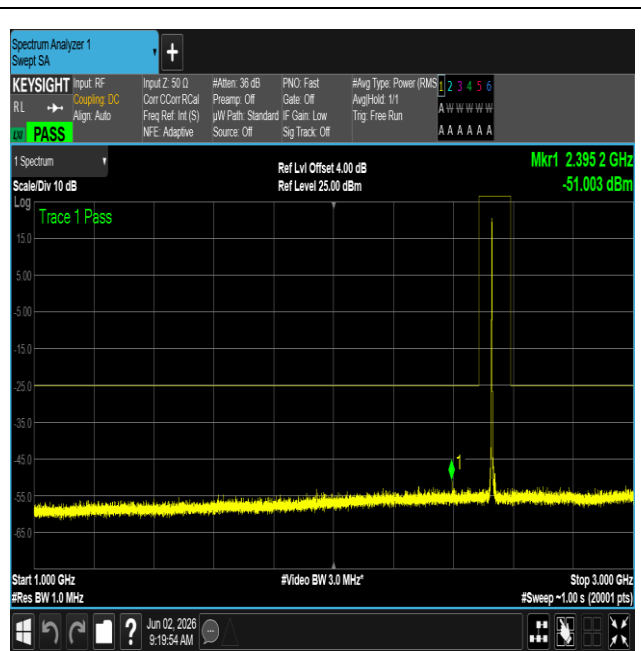
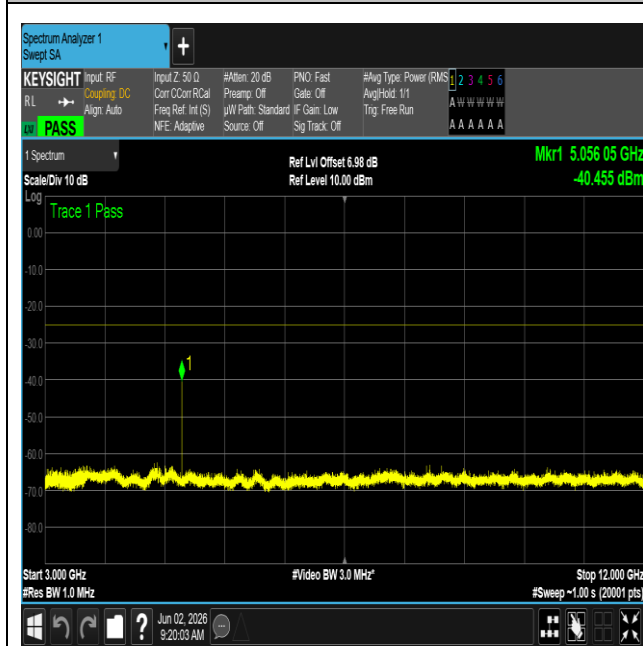




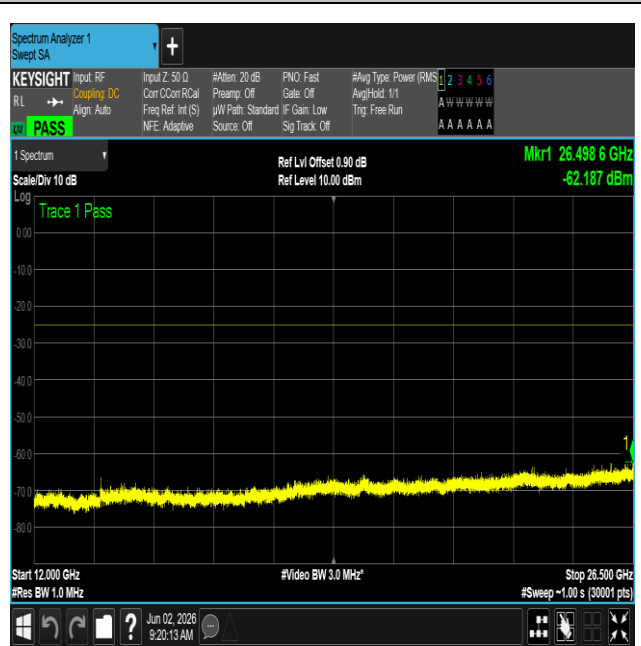
NTNV-n7-PC3-15-15-M-DFT-QPSK-Edge_1RB_Left-
3000-12000-PASS



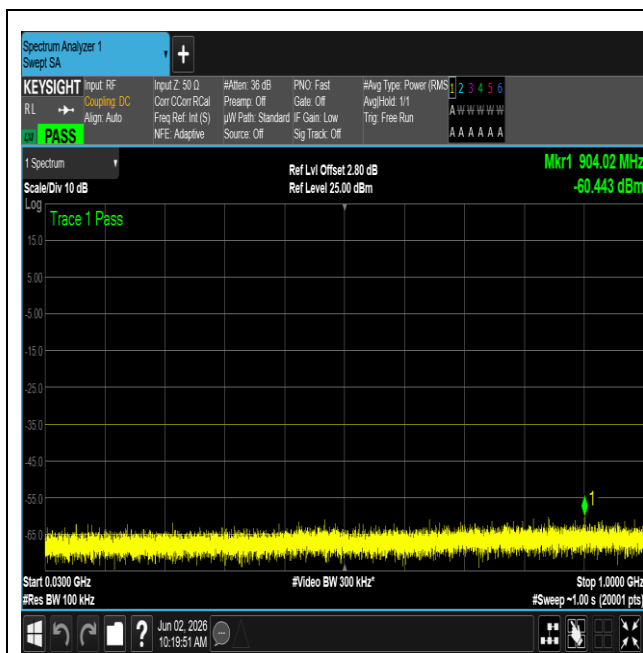
NTNV-n7-PC3-15-15-M-DFT-QPSK-Edge_1RB_Left-
12000-26500-PASS



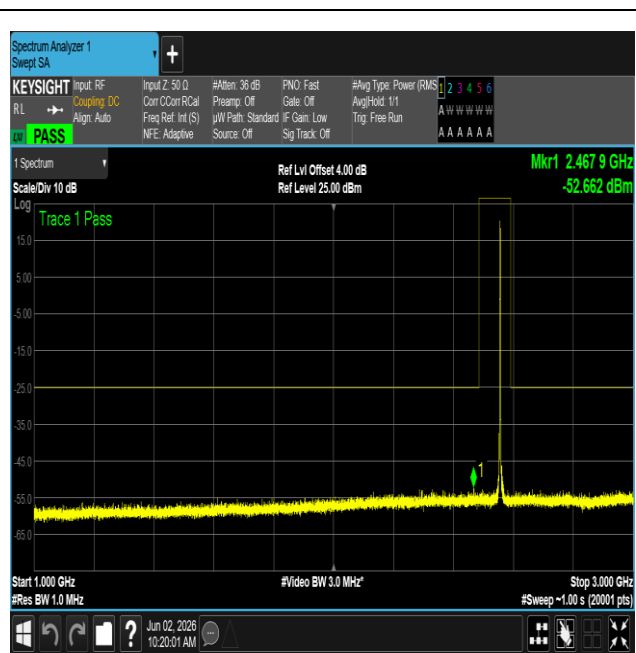
NTNV-n7-PC3-15-15-H-DFT-QPSK-Edge_1RB_Left-30-
1000-PASS



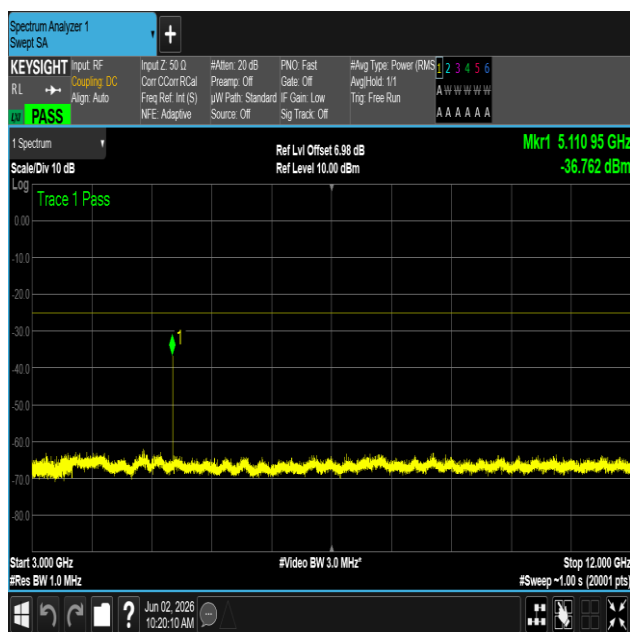
NTNV-n7-PC3-15-15-H-DFT-QPSK-Edge_1RB_Left-
1000-3000-PASS



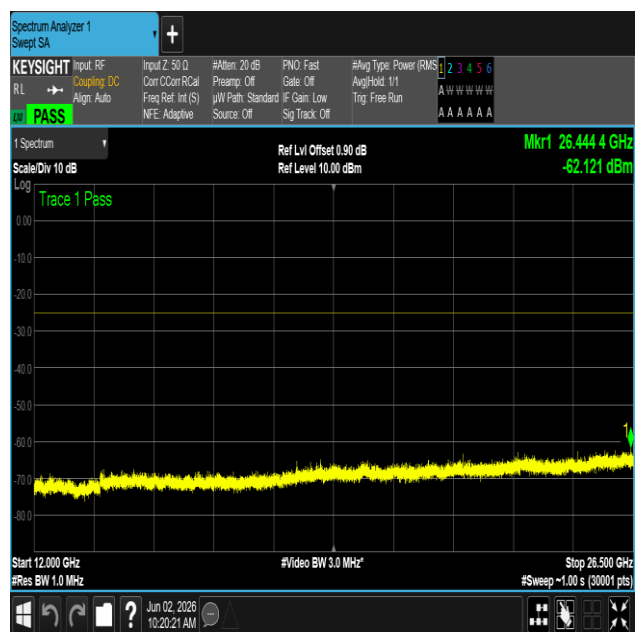
NTNV-n7-PC3-15-15-H-DFT-QPSK-Edge_1RB_Left-
3000-12000-PASS



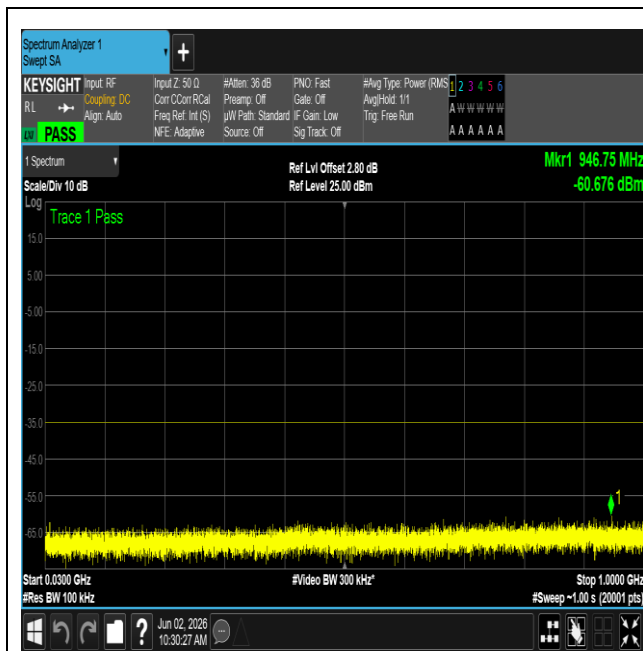
NTNV-n7-PC3-15-15-H-DFT-QPSK-Edge_1RB_Left-
12000-26500-PASS



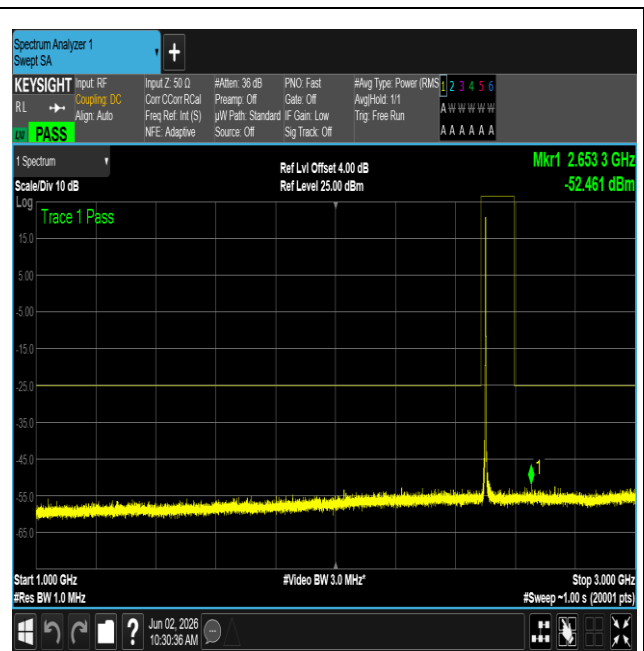
NTNV-n7-PC3-15-20-L-DFT-QPSK-Edge_1RB_Left-30-
1000-PASS



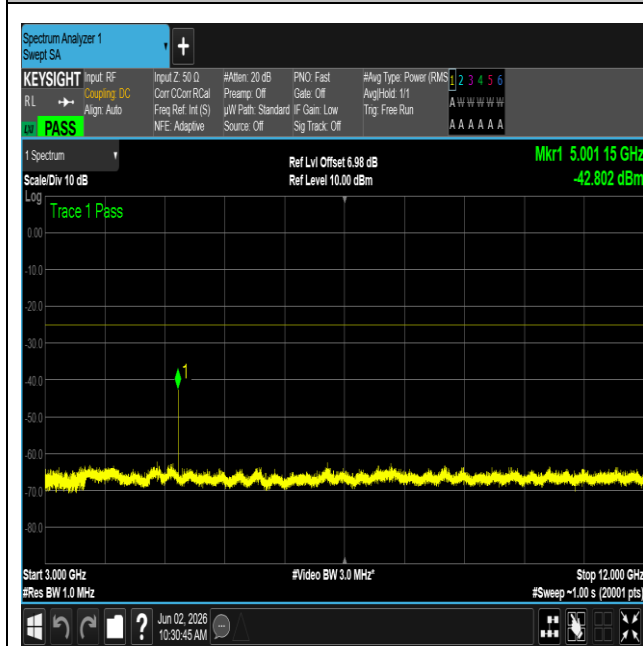
NTNV-n7-PC3-15-20-L-DFT-QPSK-Edge_1RB_Left-
1000-3000-PASS



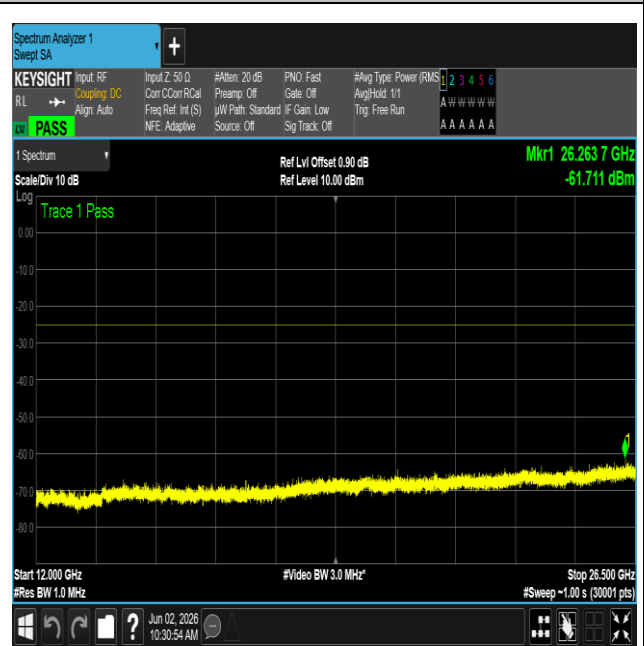
NTNV-n7-PC3-15-20-L-DFT-QPSK-Edge_1RB_Left-
3000-12000-PASS



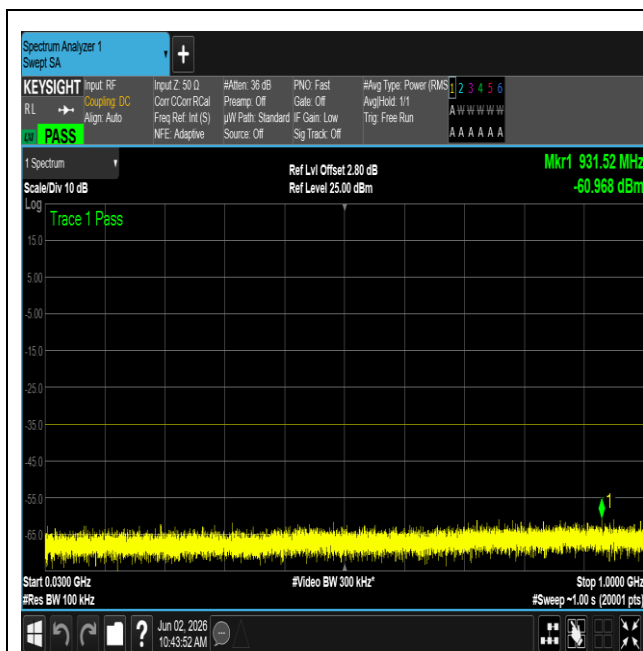
NTNV-n7-PC3-15-20-L-DFT-QPSK-Edge_1RB_Left-
12000-26500-PASS



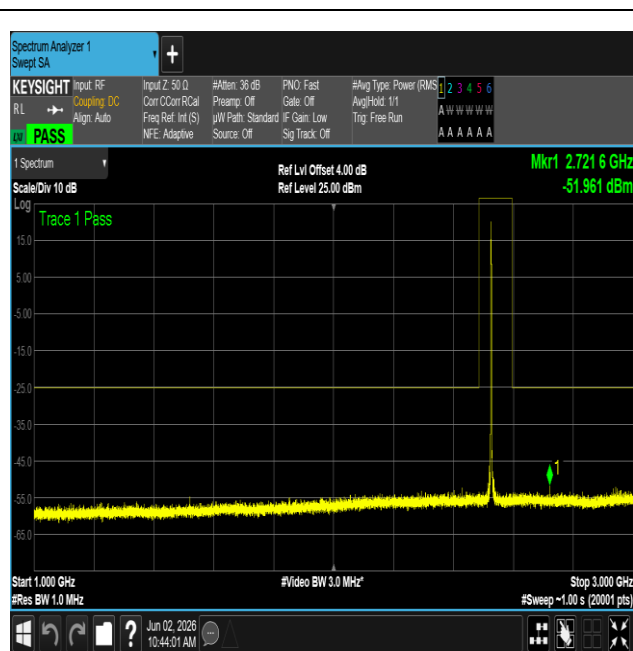
NTNV-n7-PC3-15-20-M-DFT-QPSK-Edge_1RB_Left-30-
1000-PASS



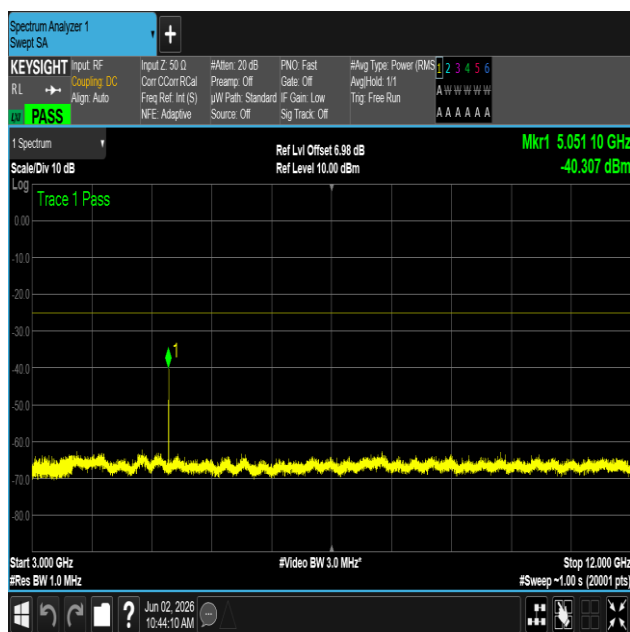
NTNV-n7-PC3-15-20-M-DFT-QPSK-Edge_1RB_Left-
1000-3000-PASS



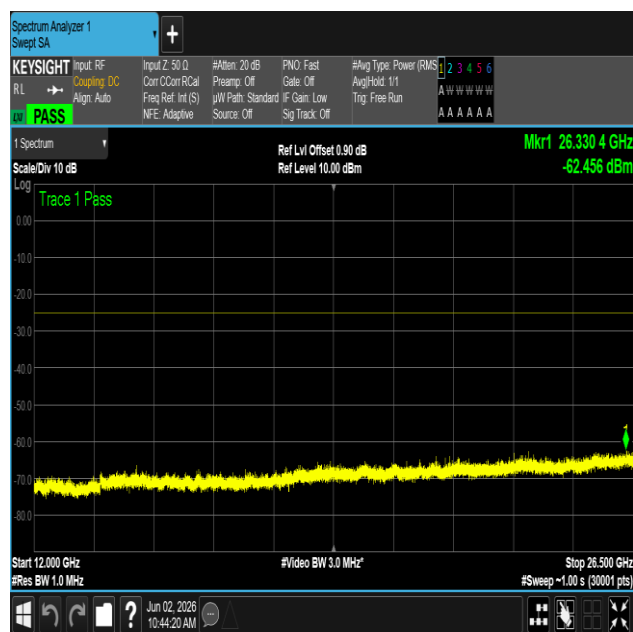
NTNV-n7-PC3-15-20-M-DFT-QPSK-Edge_1RB_Left-
3000-12000-PASS



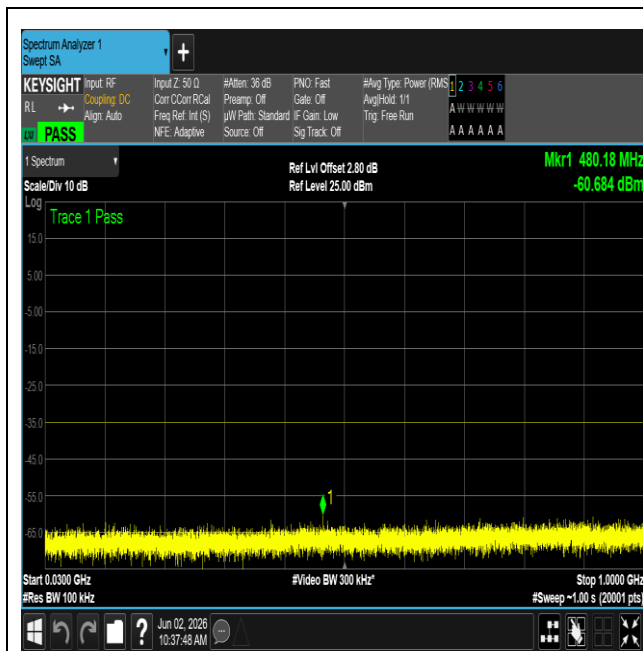
NTNV-n7-PC3-15-20-M-DFT-QPSK-Edge_1RB_Left-
12000-26500-PASS



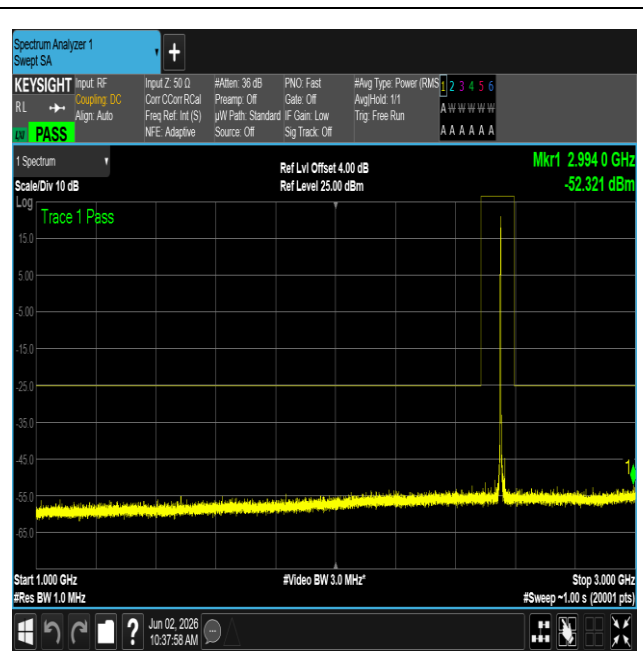
NTNV-n7-PC3-15-20-H-DFT-QPSK-Edge_1RB_Left-30-
1000-PASS



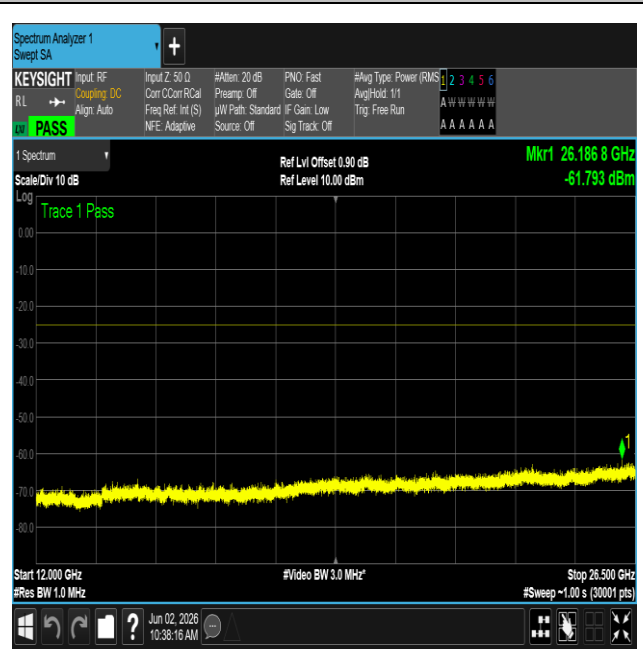
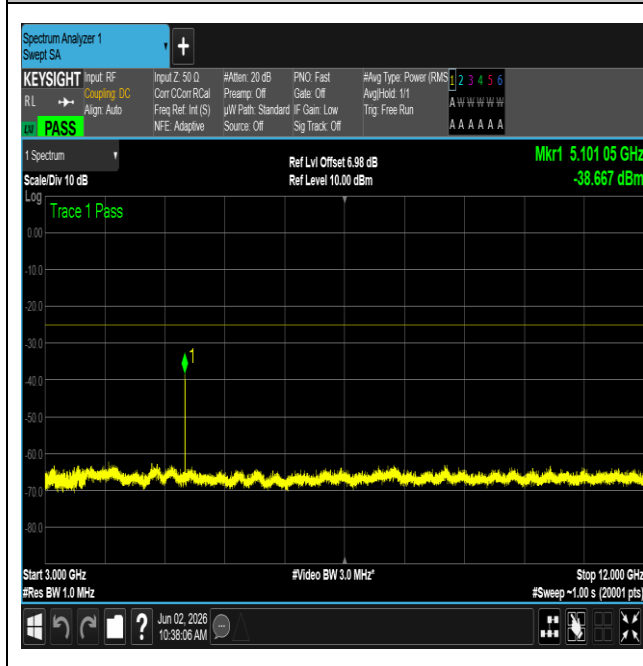
NTNV-n7-PC3-15-20-H-DFT-QPSK-Edge_1RB_Left-
1000-3000-PASS



NTNV-n7-PC3-15-20-H-DFT-QPSK-Edge_1RB_Left-
3000-12000-PASS



NTNV-n7-PC3-15-20-H-DFT-QPSK-Edge_1RB_Left-
12000-26500-PASS



Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SC S (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Voltage (V)	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
n7	15	10	DFT-QPSK	L	Outer_Full	VL	NT	3.60	0.001438	PASS
n7	15	10	DFT-QPSK	L	Outer_Full	VN	NT	-4.49	-0.001792	PASS
n7	15	10	DFT-QPSK	L	Outer_Full	VH	NT	1.11	0.000441	PASS
n7	15	10	DFT-QPSK	H	Outer_Full	VL	NT	7.29	0.002843	PASS
n7	15	10	DFT-QPSK	H	Outer_Full	VN	NT	8.38	0.003267	PASS
n7	15	10	DFT-QPSK	H	Outer_Full	VH	NT	1.52	0.000594	PASS

Frequency Error VS. Temperature

Temperature										
Band	SC S (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Voltage	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
n7	15	10	DFT-QPSK	L	Outer_Full	NV	-30	-6.59	-0.002629	PASS
n7	15	10	DFT-QPSK	L	Outer_Full	NV	-20	-7.33	-0.002928	PASS
n7	15	10	DFT-QPSK	L	Outer_Full	NV	-10	19.65	0.007845	PASS
n7	15	10	DFT-QPSK	L	Outer_Full	NV	0	13.68	0.005462	PASS
n7	15	10	DFT-QPSK	L	Outer_Full	NV	10	2.87	0.001145	PASS

n7	15	10	DFT-QPSK	L	Outer_Full	NV	20	15.96	0.006370	PASS
n7	15	10	DFT-QPSK	L	Outer_Full	NV	30	8.87	0.003540	PASS
n7	15	10	DFT-QPSK	L	Outer_Full	NV	40	6.00	0.002395	PASS
n7	15	10	DFT-QPSK	L	Outer_Full	NV	50	18.05	0.007205	PASS
n7	15	10	DFT-QPSK	H	Outer_Full	NV	-30	1.08	0.000421	PASS
n7	15	10	DFT-QPSK	H	Outer_Full	NV	-20	-14.43	-0.005627	PASS
n7	15	10	DFT-QPSK	H	Outer_Full	NV	-10	-8.88	-0.003461	PASS
n7	15	10	DFT-QPSK	H	Outer_Full	NV	0	1.83	0.000713	PASS
n7	15	10	DFT-QPSK	H	Outer_Full	NV	10	4.22	0.001645	PASS
n7	15	10	DFT-QPSK	H	Outer_Full	NV	20	14.20	0.005535	PASS
n7	15	10	DFT-QPSK	H	Outer_Full	NV	30	10.50	0.004093	PASS
n7	15	10	DFT-QPSK	H	Outer_Full	NV	40	16.41	0.006399	PASS
n7	15	10	DFT-QPSK	H	Outer_Full	NV	50	10.32	0.004023	PASS

FCC-SA N12

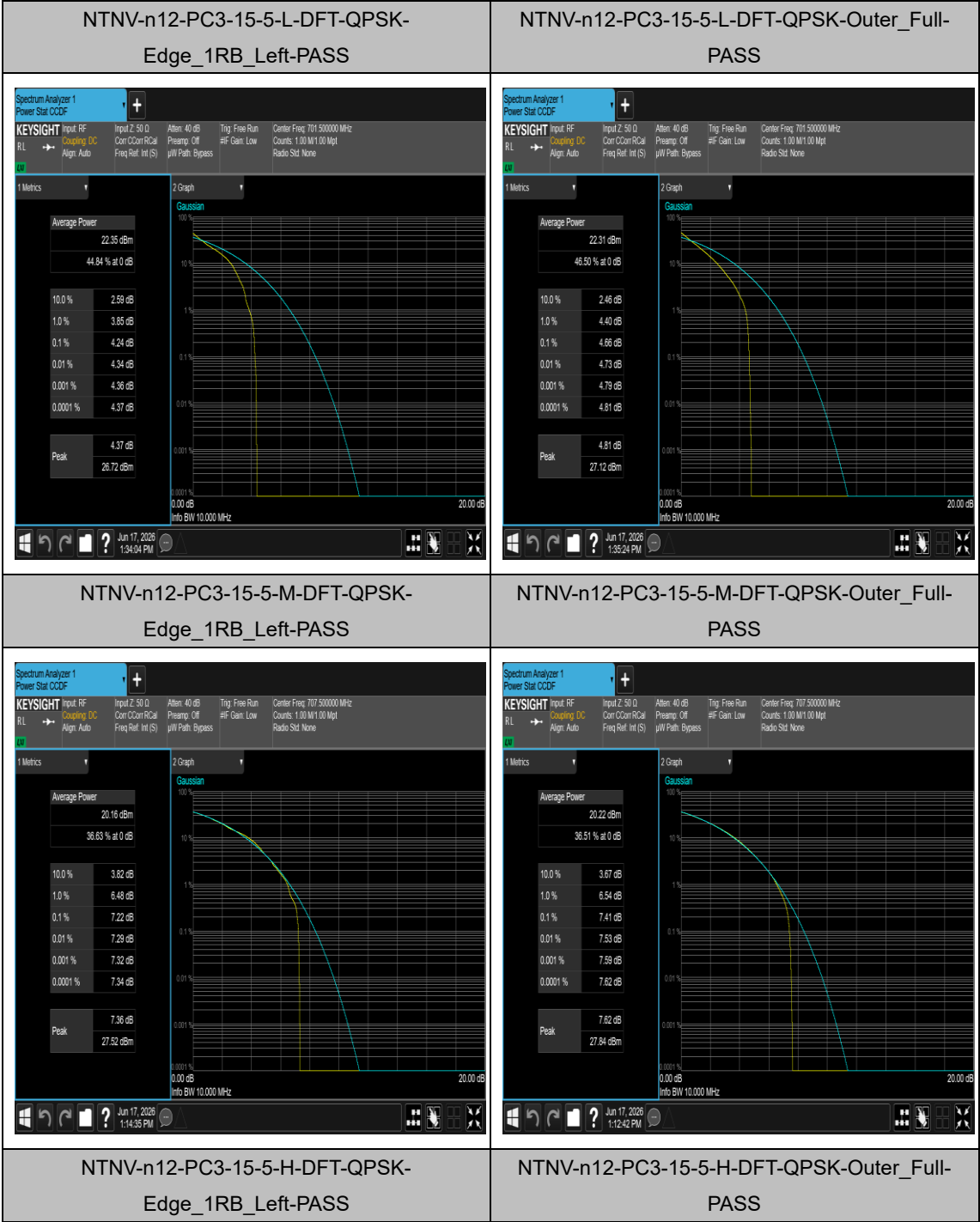
Peak-to-Average Ratio for SA

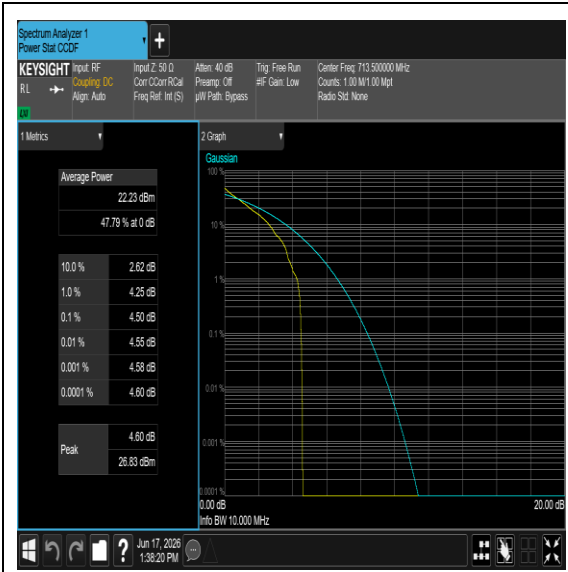
Peak-to-Average Ratio(CCDF)

Test Result

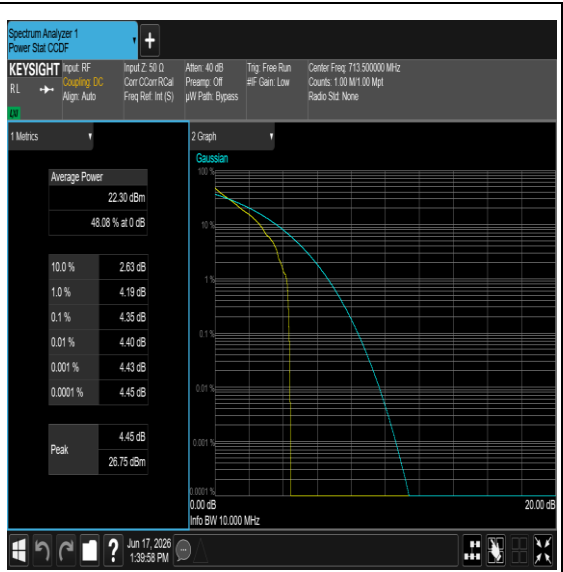
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Result (dB)	Limit	Verdict
n12	15	5	DFT-QPSK	L	Edge_1RB_Left	4.24	≤13dB	PASS
n12	15	5	DFT-QPSK	L	Outer_Full	4.66	≤13dB	PASS
n12	15	5	DFT-QPSK	M	Edge_1RB_Left	7.22	≤13dB	PASS
n12	15	5	DFT-QPSK	M	Outer_Full	7.41	≤13dB	PASS
n12	15	5	DFT-QPSK	H	Edge_1RB_Left	4.5	≤13dB	PASS
n12	15	5	DFT-QPSK	H	Outer_Full	4.35	≤13dB	PASS
n12	15	10	DFT-QPSK	L	Edge_1RB_Left	4.56	≤13dB	PASS
n12	15	10	DFT-QPSK	L	Outer_Full	4.56	≤13dB	PASS
n12	15	10	DFT-QPSK	M	Edge_1RB_Left	4.26	≤13dB	PASS
n12	15	10	DFT-QPSK	M	Outer_Full	4.76	≤13dB	PASS
n12	15	10	DFT-QPSK	H	Edge_1RB_Left	4.49	≤13dB	PASS
n12	15	10	DFT-QPSK	H	Outer_Full	5	≤13dB	PASS
n12	15	15	DFT-QPSK	L	Edge_1RB_Left	4.18	≤13dB	PASS
n12	15	15	DFT-QPSK	L	Outer_Full	4.59	≤13dB	PASS
n12	15	15	DFT-QPSK	M	Edge_1RB_Left	4.54	≤13dB	PASS
n12	15	15	DFT-QPSK	M	Outer_Full	4.7	≤13dB	PASS
n12	15	15	DFT-QPSK	H	Edge_1RB_Left	4.6	≤13dB	PASS
n12	15	15	DFT-QPSK	H	Outer_Full	4.59	≤13dB	PASS

Test Graphs

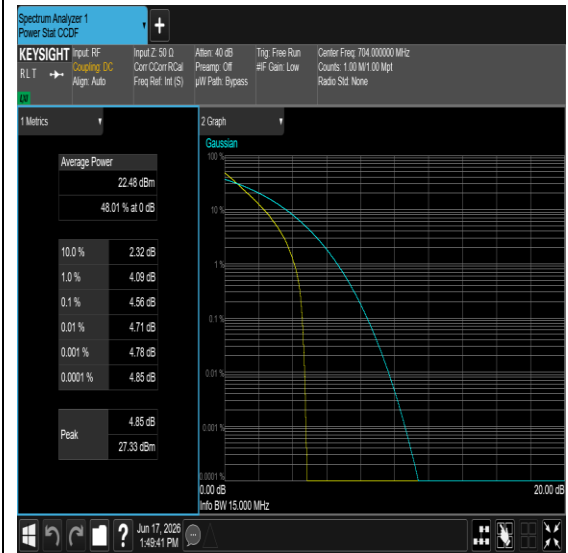




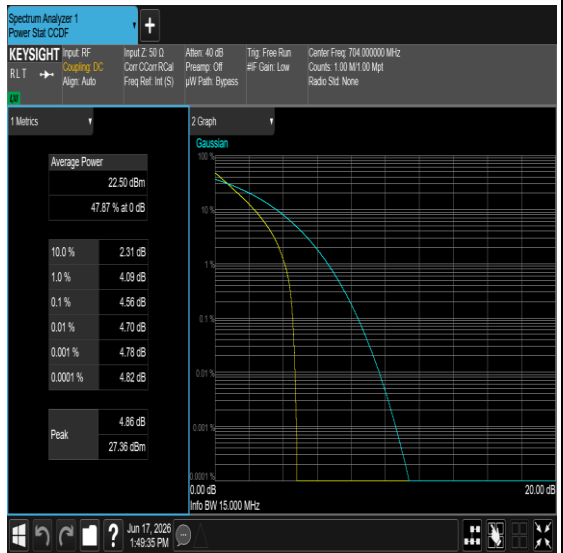
NTNV-n12-PC3-15-10-L-DFT-QPSK-
Edge_1RB_Left-PASS



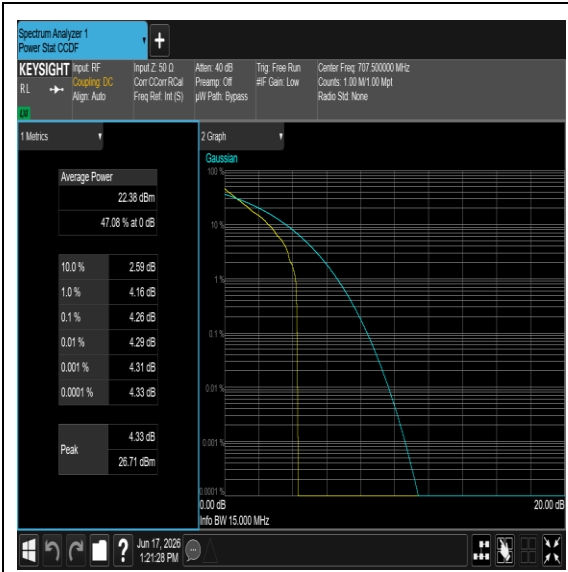
NTNV-n12-PC3-15-10-L-DFT-QPSK-Outer_Full-
PASS



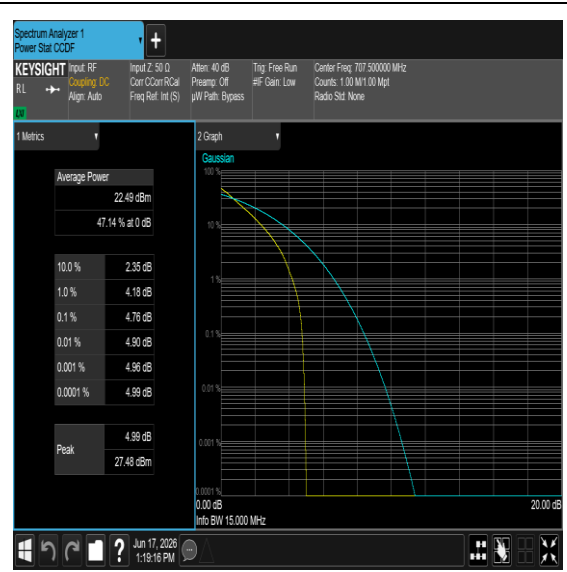
NTNV-n12-PC3-15-10-M-DFT-QPSK-
Edge_1RB_Left-PASS



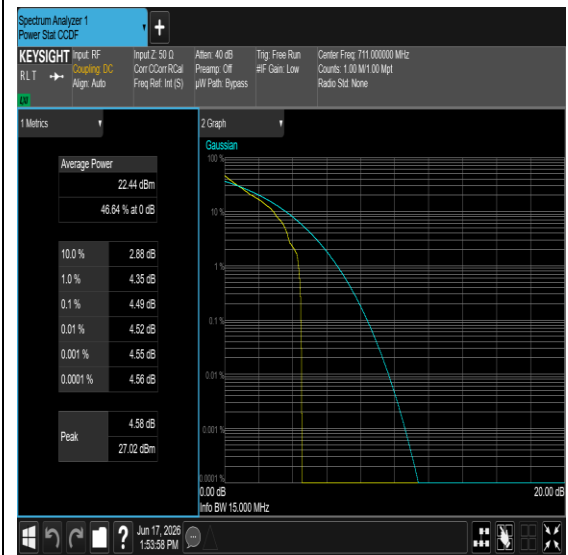
NTNV-n12-PC3-15-10-M-DFT-QPSK-Outer_Full-
PASS



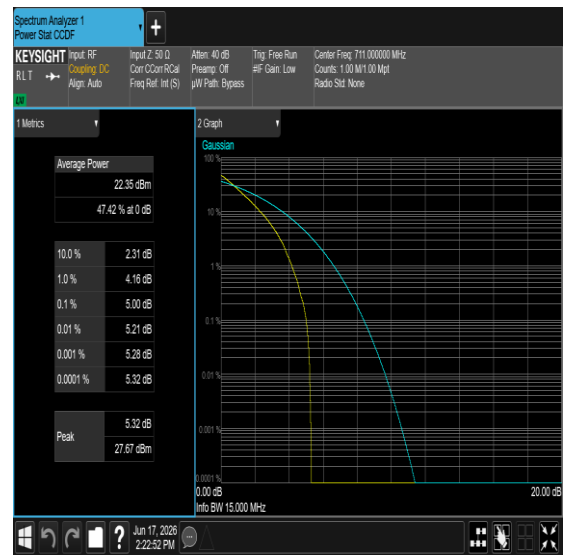
NTNV-n12-PC3-15-10-H-DFT-QPSK-
Edge_1RB_Left-PASS



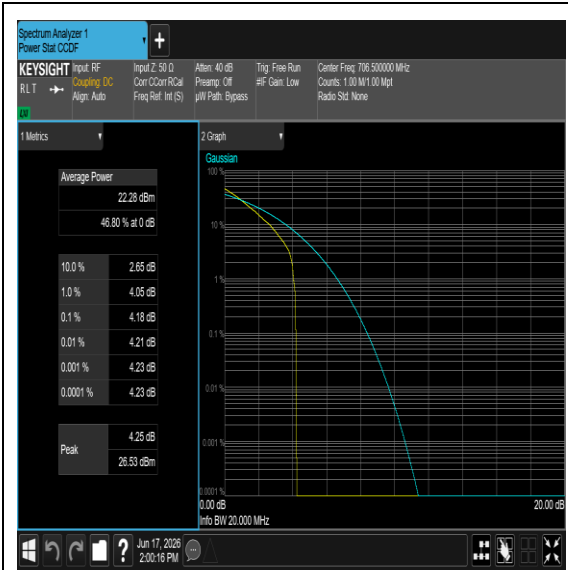
NTNV-n12-PC3-15-10-H-DFT-QPSK-Outer_Full-
PASS



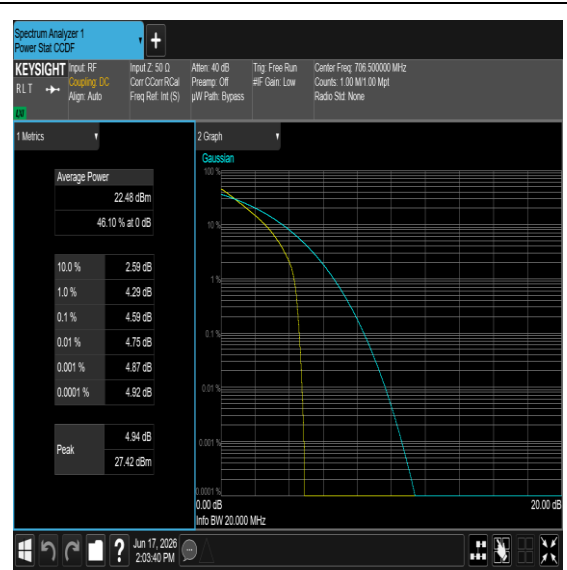
NTNV-n12-PC3-15-15-L-DFT-QPSK-
Edge_1RB_Left-PASS



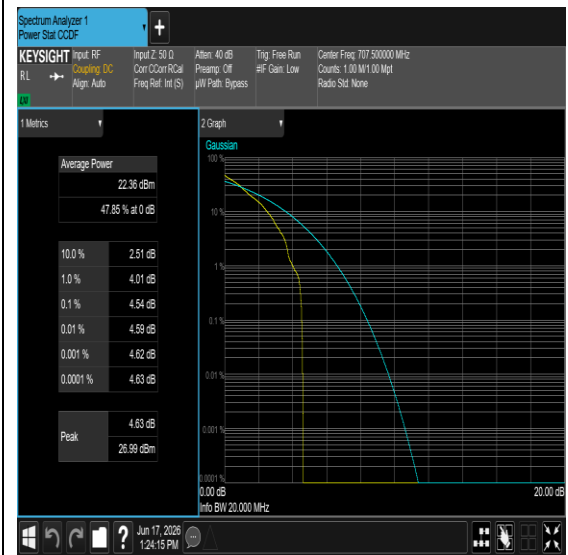
NTNV-n12-PC3-15-15-L-DFT-QPSK-Outer_Full-
PASS



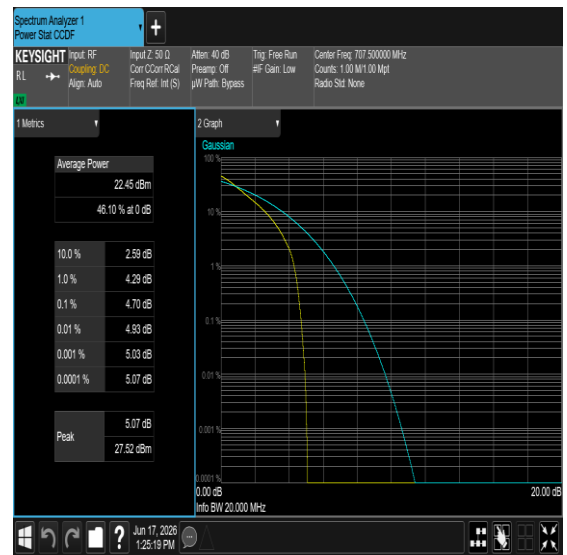
NTNV-n12-PC3-15-15-M-DFT-QPSK-
Edge_1RB_Left-PASS



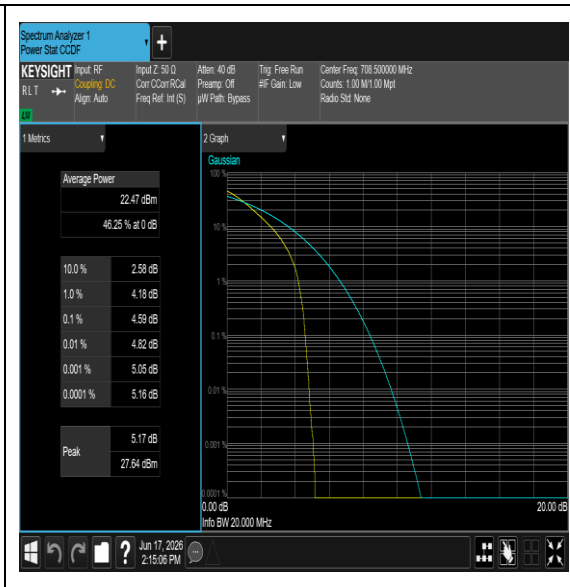
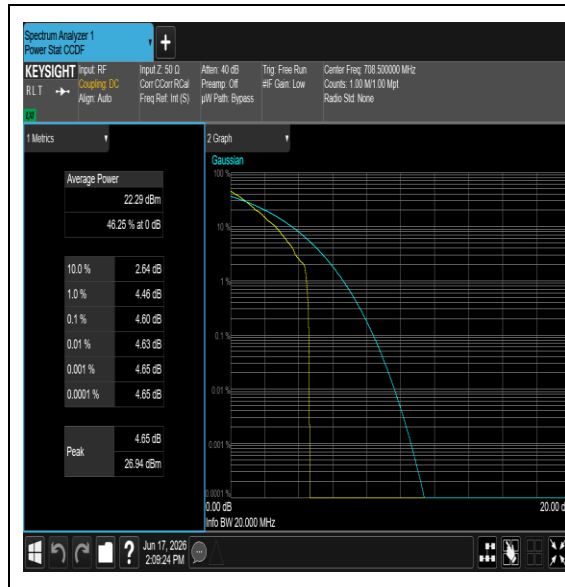
NTNV-n12-PC3-15-15-M-DFT-QPSK-Outer_Full-
PASS



NTNV-n12-PC3-15-15-H-DFT-QPSK-
Edge_1RB_Left-PASS



NTNV-n12-PC3-15-15-H-DFT-QPSK-Outer_Full-
PASS

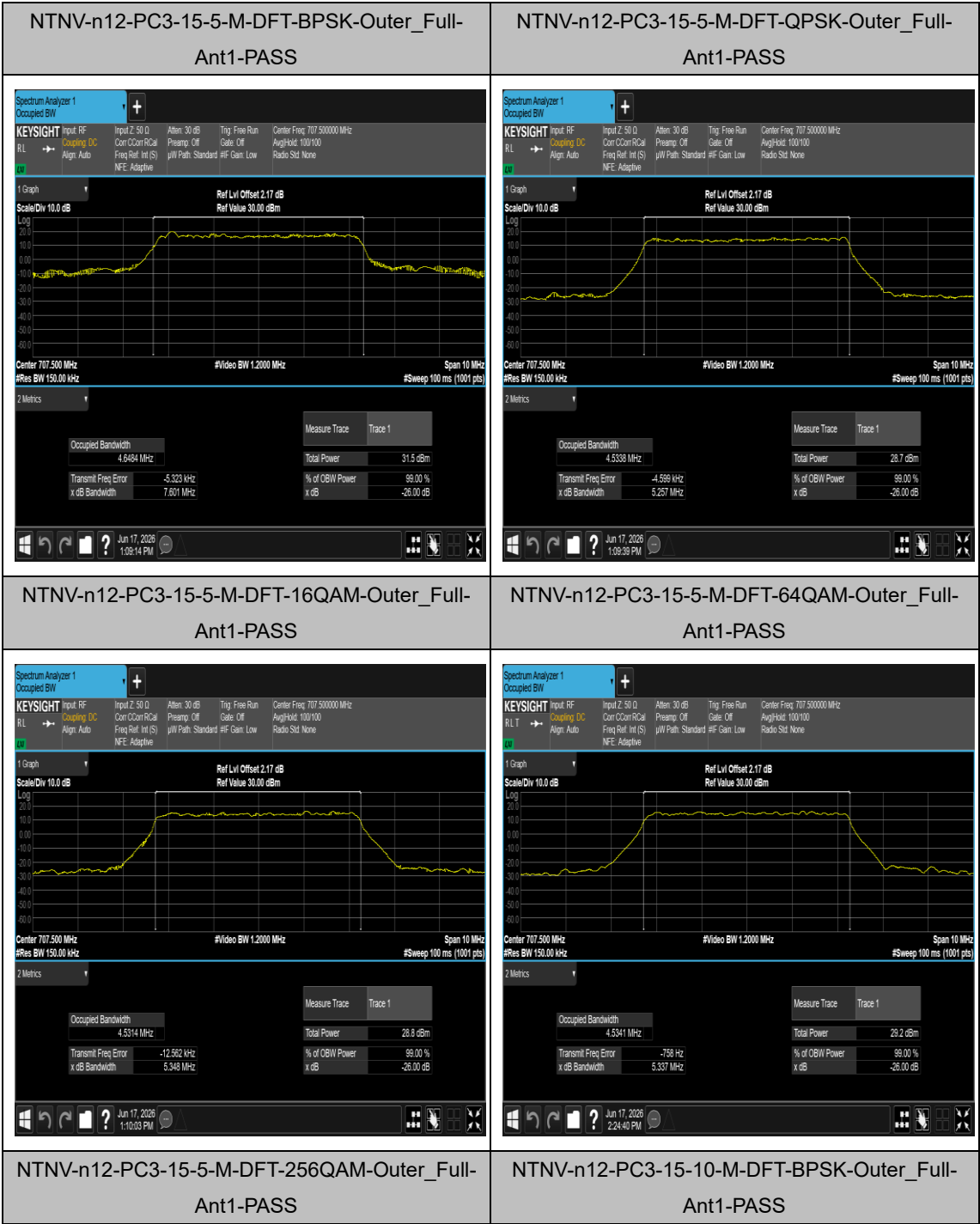


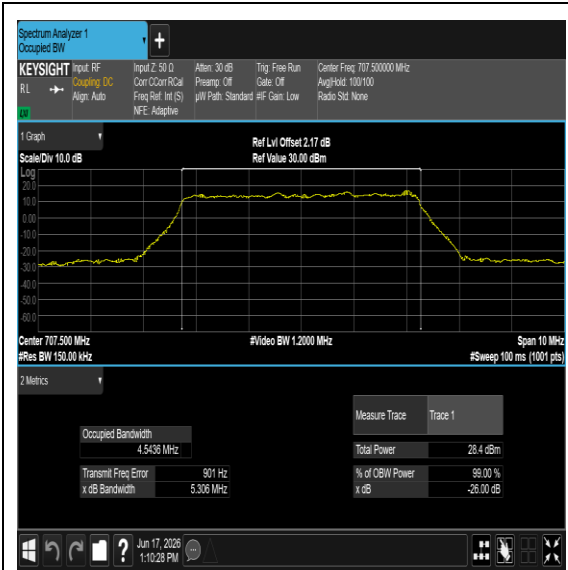
26dB Bandwidth and Occupied Bandwidth for SA

Test Result

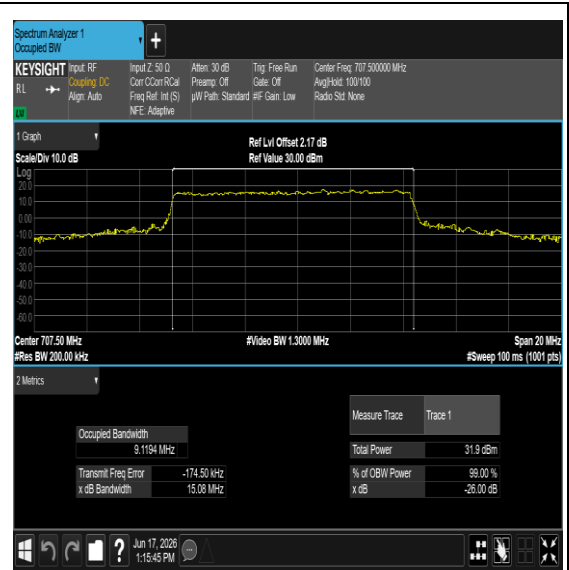
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	OBW (MHz)	EBW (MHz)	Verdict
n12	15	5	DFT-BPSK	M	Outer_Full	4.6484	7.601	PASS
n12	15	5	DFT-QPSK	M	Outer_Full	4.5338	5.257	PASS
n12	15	5	DFT-16QAM	M	Outer_Full	4.5314	5.348	PASS
n12	15	5	DFT-64QAM	M	Outer_Full	4.5341	5.337	PASS
n12	15	5	DFT-256QAM	M	Outer_Full	4.5436	5.306	PASS
n12	15	10	DFT-BPSK	M	Outer_Full	9.1194	15.08	PASS
n12	15	10	DFT-QPSK	M	Outer_Full	9.0089	9.944	PASS
n12	15	10	DFT-16QAM	M	Outer_Full	8.9980	9.700	PASS
n12	15	10	DFT-64QAM	M	Outer_Full	8.9911	9.826	PASS
n12	15	10	DFT-256QAM	M	Outer_Full	8.9754	9.719	PASS
n12	15	15	DFT-BPSK	M	Outer_Full	13.391	14.45	PASS
n12	15	15	DFT-QPSK	M	Outer_Full	13.416	14.47	PASS
n12	15	15	DFT-16QAM	M	Outer_Full	13.447	14.43	PASS
n12	15	15	DFT-64QAM	M	Outer_Full	13.377	14.43	PASS
n12	15	15	DFT-256QAM	M	Outer_Full	13.425	14.33	PASS

Test Graphs

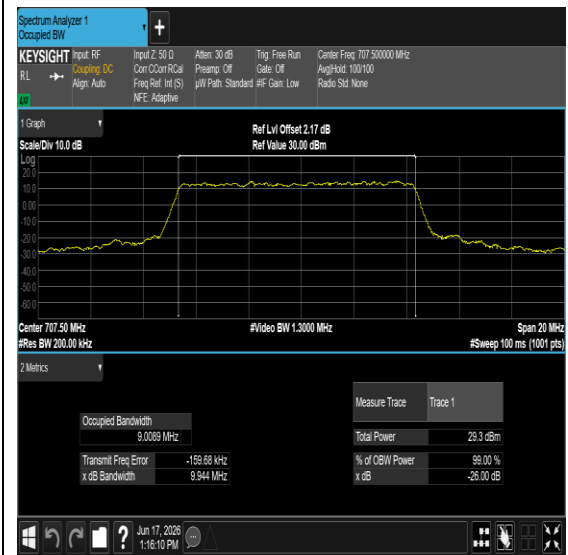




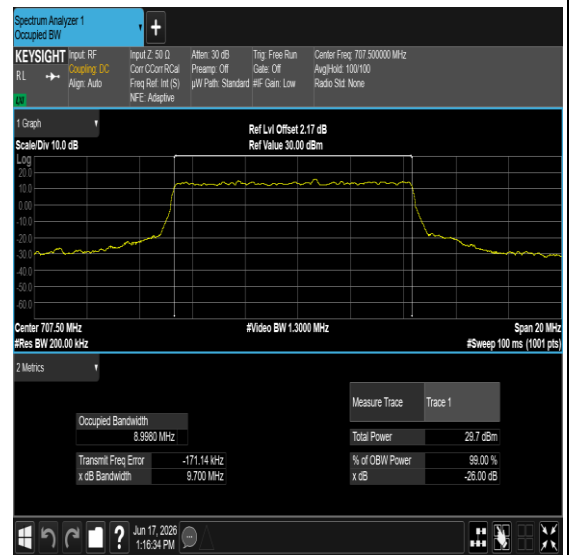
NTNV-n12-PC3-15-10-M-DFT-QPSK-Outer_Full-Ant1-PASS



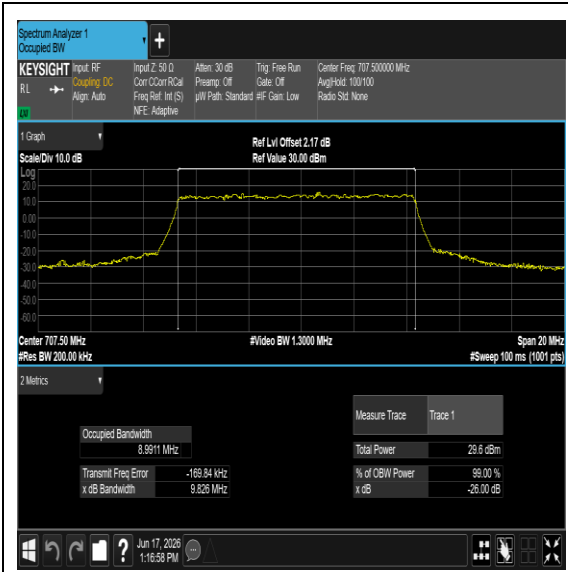
NTNV-n12-PC3-15-10-M-DFT-16QAM-Outer_Full-Ant1-PASS



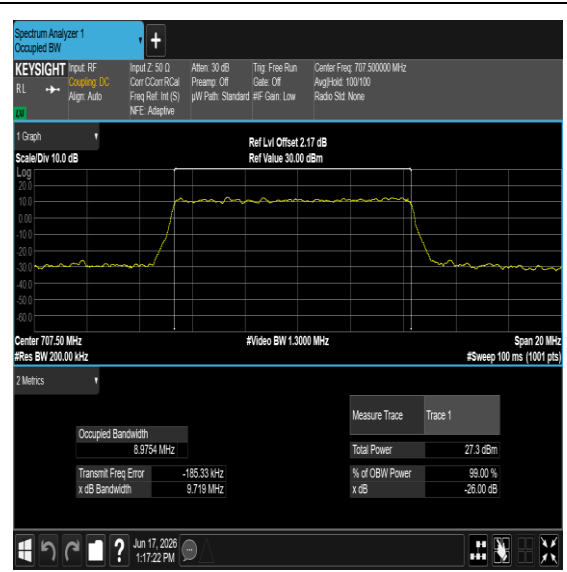
NTNV-n12-PC3-15-10-M-DFT-64QAM-Outer_Full-Ant1-PASS



NTNV-n12-PC3-15-10-M-DFT-256QAM-Outer_Full-Ant1-PASS



NTNV-n12-PC3-15-15-M-DFT-BPSK-Outer_Full-Ant1-PASS



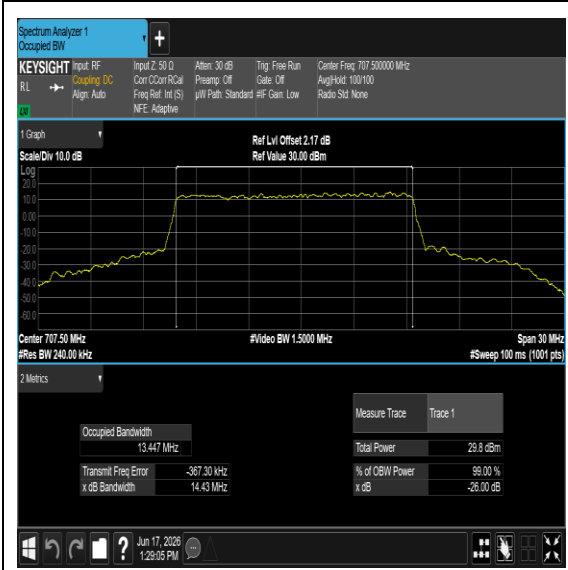
NTNV-n12-PC3-15-15-M-DFT-QPSK-Outer_Full-Ant1-PASS



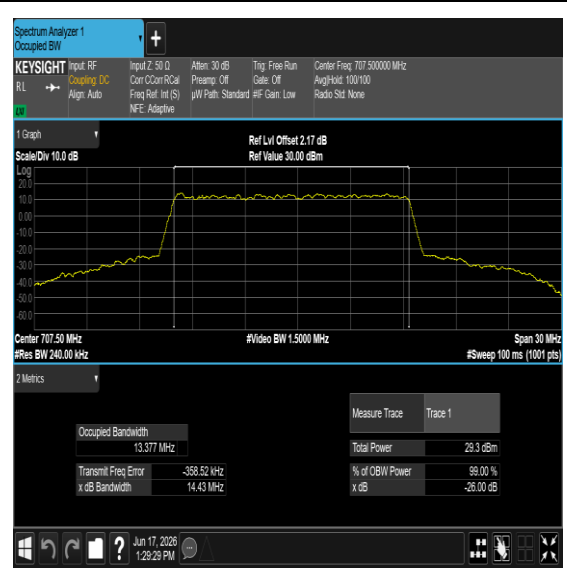
NTNV-n12-PC3-15-15-M-DFT-16QAM-Outer_Full-Ant1-PASS



NTNV-n12-PC3-15-15-M-DFT-64QAM-Outer_Full-Ant1-PASS



NTNV-n12-PC3-15-15-M-DFT-256QAM-
Outer_Full-Ant1-PASS

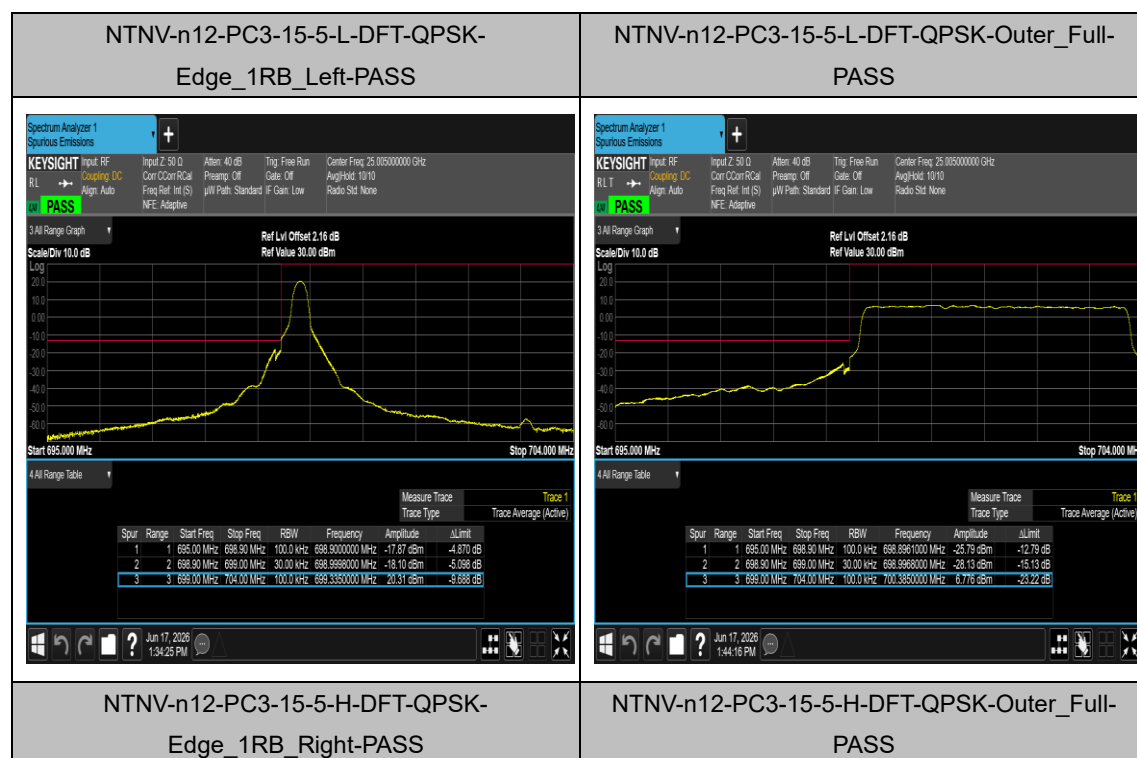


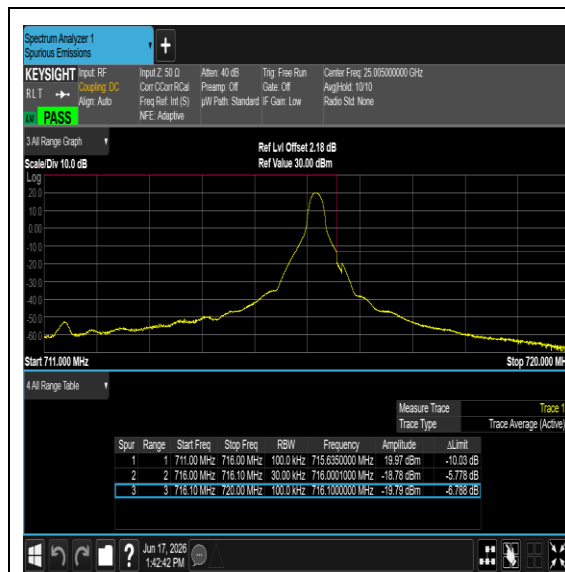
Band Edge for SA

Test Result

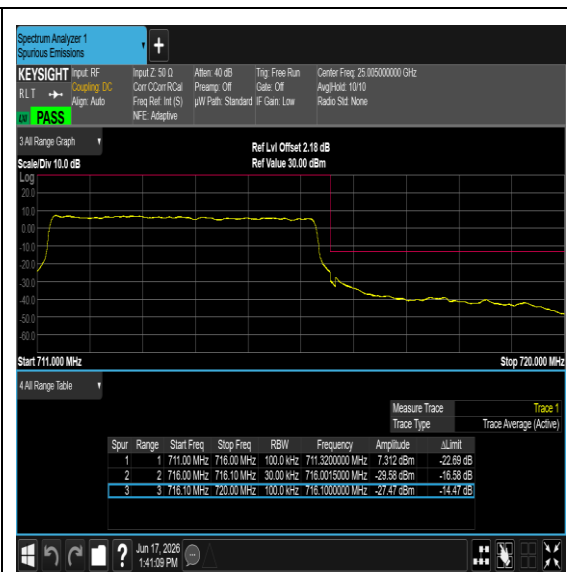
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Result (dBm)	Verdict
n12	15	5	DFT-QPSK	L	Edge_1RB_Left	-17.87	PASS
n12	15	5	DFT-QPSK	L	Outer_Full	-25.79	PASS
n12	15	5	DFT-QPSK	H	Edge_1RB_Right	-18.78	PASS
n12	15	5	DFT-QPSK	H	Outer_Full	-27.47	PASS
n12	15	10	DFT-QPSK	L	Edge_1RB_Left	-18.62	PASS
n12	15	10	DFT-QPSK	L	Outer_Full	-29.80	PASS
n12	15	10	DFT-QPSK	H	Edge_1RB_Right	-22.06	PASS
n12	15	10	DFT-QPSK	H	Outer_Full	-36.36	PASS
n12	15	15	DFT-QPSK	L	Edge_1RB_Left	-23.00	PASS
n12	15	15	DFT-QPSK	L	Outer_Full	-33.02	PASS
n12	15	15	DFT-QPSK	H	Edge_1RB_Right	-24.58	PASS
n12	15	15	DFT-QPSK	H	Outer_Full	-36.07	PASS

Test Graphs

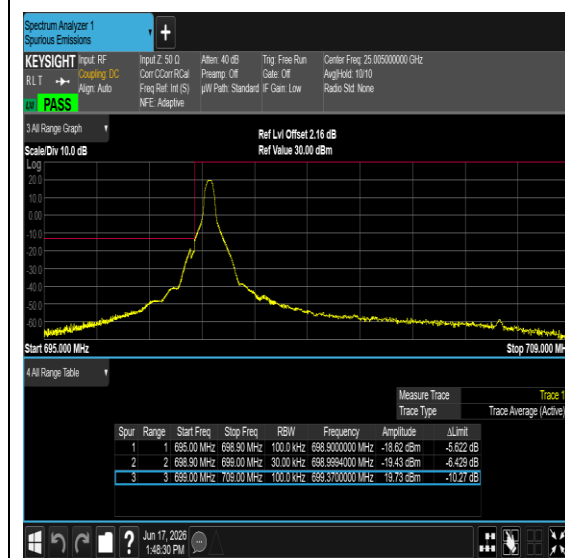




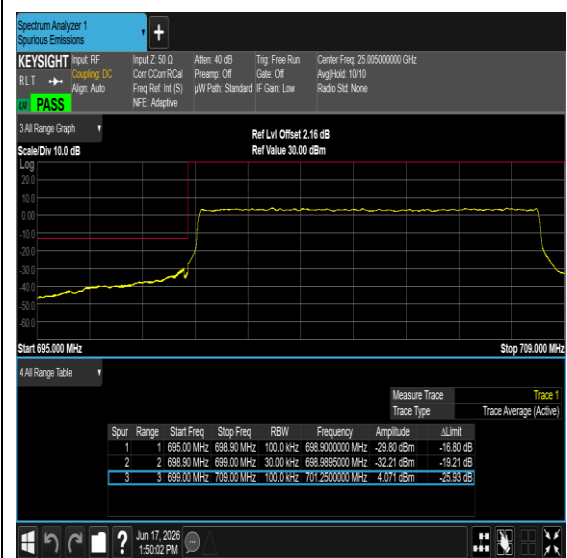
NTNV-n12-PC3-15-10-L-DFT-QPSK-
Edge_1RB_Left-PASS



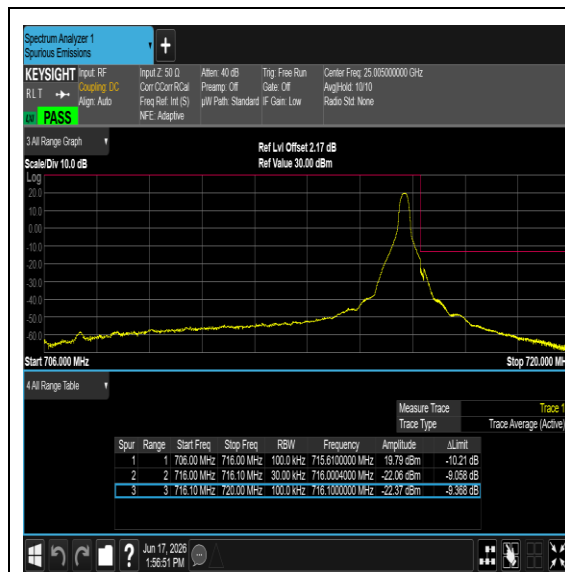
NTNV-n12-PC3-15-10-L-DFT-QPSK-Outer_Full-
PASS



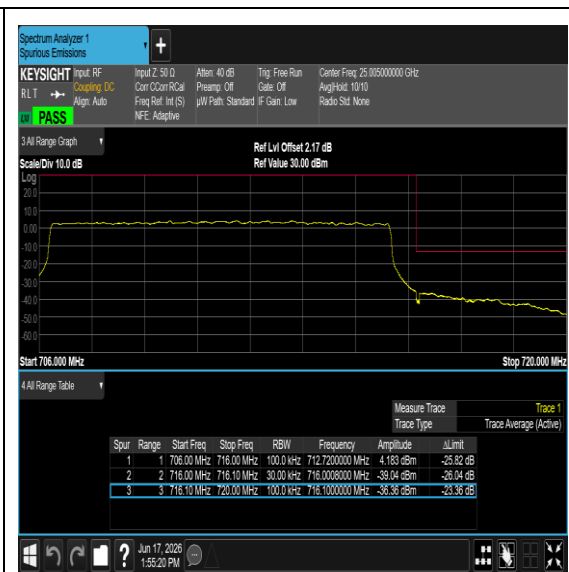
NTNV-n12-PC3-15-10-H-DFT-QPSK-
Edge_1RB_Right-PASS



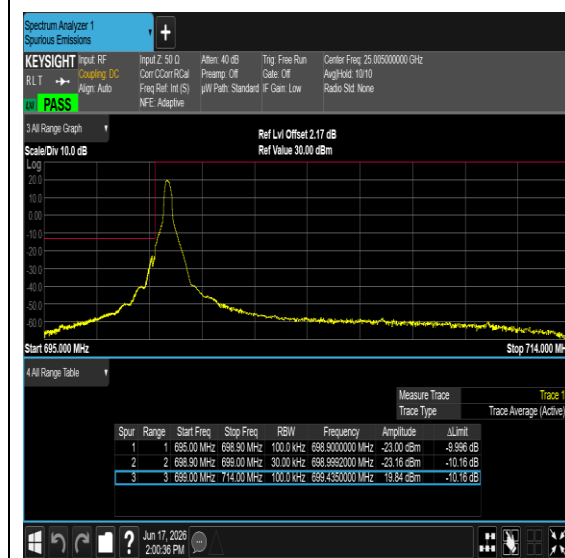
NTNV-n12-PC3-15-10-H-DFT-QPSK-Outer_Full-
PASS



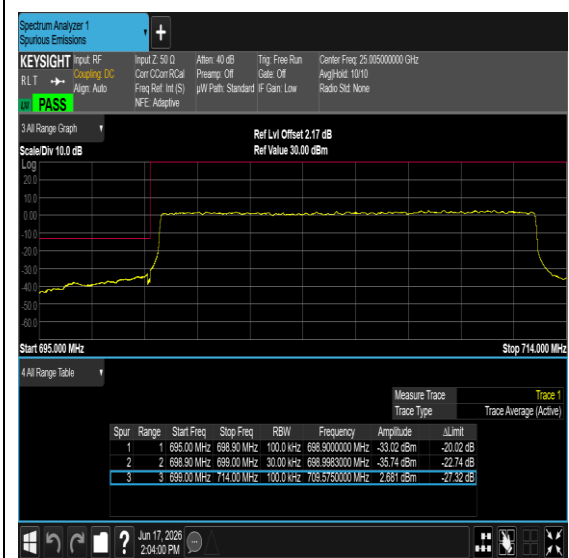
NTNV-n12-PC3-15-15-L-DFT-QPSK-
Edge_1RB_Left-PASS



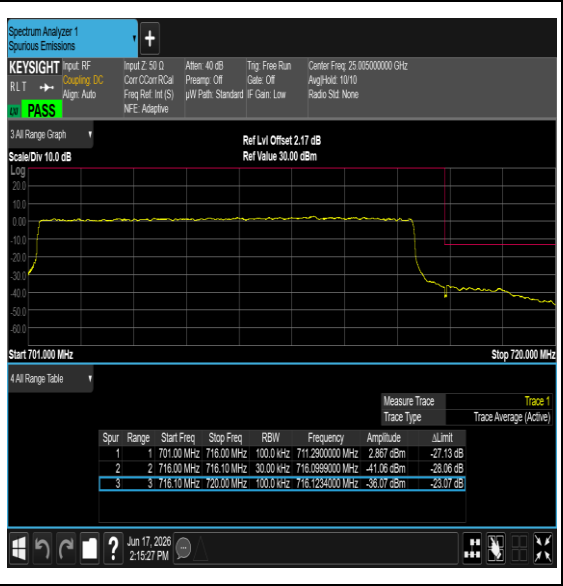
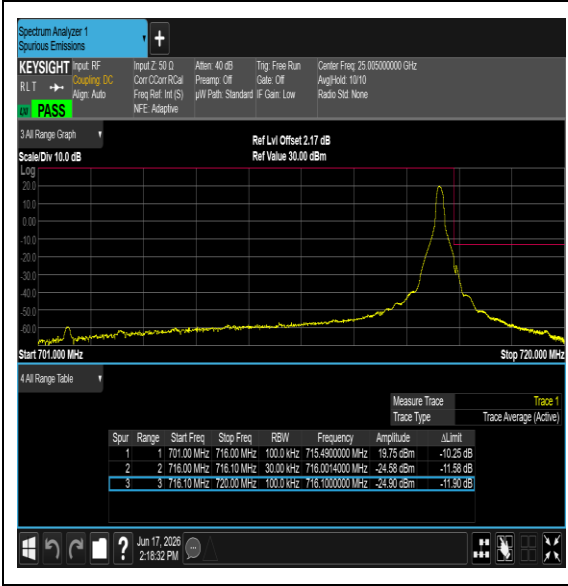
NTNV-n12-PC3-15-15-L-DFT-QPSK-Outer_Full-
PASS



NTNV-n12-PC3-15-15-H-DFT-QPSK-
Edge_1RB_Right-PASS



NTNV-n12-PC3-15-15-H-DFT-QPSK-Outer_Full-
PASS

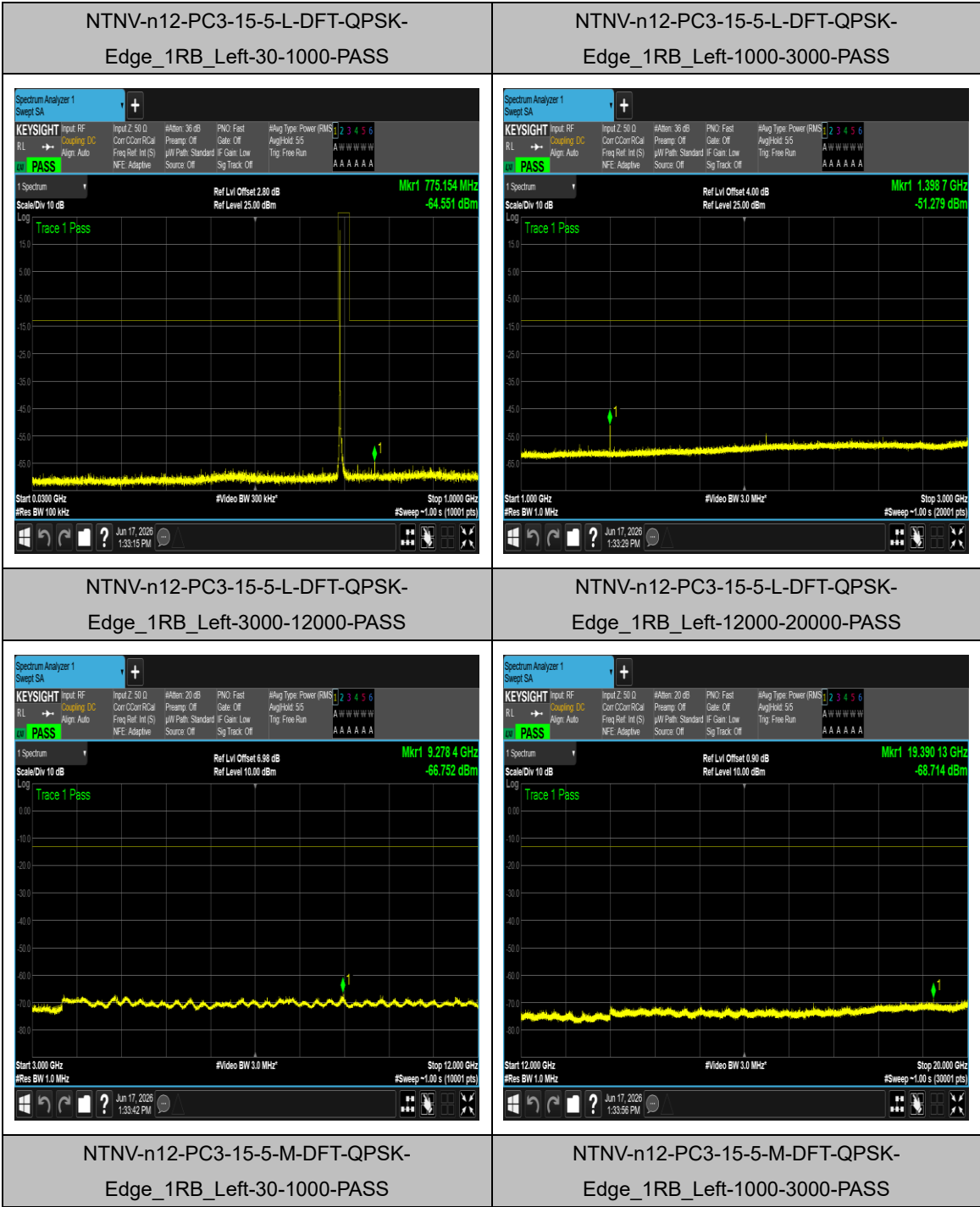


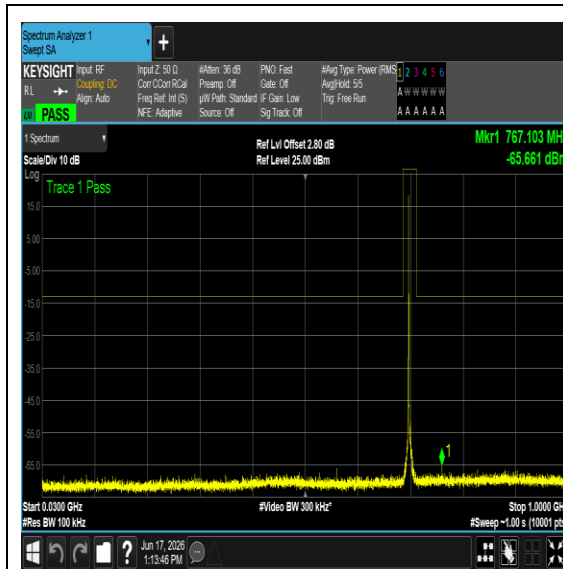
Conducted Spurious Emission for SA

Test Result

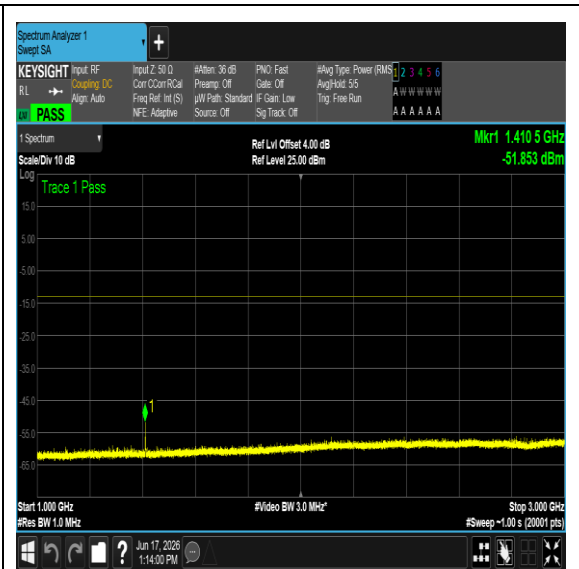
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit	Verdict
n12	15	5	DFT-QPSK	L	Edge_1RB_Left	30	1000	-64.55	≤-13dBm	PASS
n12	15	5	DFT-QPSK	L	Edge_1RB_Left	1000	3000	-51.28	≤-13dBm	PASS
n12	15	5	DFT-QPSK	L	Edge_1RB_Left	3000	12000	-66.75	≤-13dBm	PASS
n12	15	5	DFT-QPSK	L	Edge_1RB_Left	12000	20000	-68.71	≤-13dBm	PASS
n12	15	5	DFT-QPSK	M	Edge_1RB_Left	30	1000	-65.66	≤-13dBm	PASS
n12	15	5	DFT-QPSK	M	Edge_1RB_Left	1000	3000	-51.85	≤-13dBm	PASS
n12	15	5	DFT-QPSK	M	Edge_1RB_Left	3000	12000	-62.07	≤-13dBm	PASS
n12	15	5	DFT-QPSK	M	Edge_1RB_Left	12000	20000	-68.97	≤-13dBm	PASS
n12	15	5	DFT-QPSK	H	Edge_1RB_Left	30	1000	-65.76	≤-13dBm	PASS
n12	15	5	DFT-QPSK	H	Edge_1RB_Left	1000	3000	-50.59	≤-13dBm	PASS
n12	15	5	DFT-QPSK	H	Edge_1RB_Left	3000	12000	-67.25	≤-13dBm	PASS
n12	15	5	DFT-QPSK	H	Edge_1RB_Left	12000	20000	-68.86	≤-13dBm	PASS
n12	15	10	DFT-QPSK	L	Edge_1RB_Left	30	1000	-64.67	≤-13dBm	PASS
n12	15	10	DFT-QPSK	L	Edge_1RB_Left	1000	3000	-51.05	≤-13dBm	PASS
n12	15	10	DFT-QPSK	L	Edge_1RB_Left	3000	12000	-66.99	≤-13dBm	PASS
n12	15	10	DFT-QPSK	L	Edge_1RB_Left	12000	20000	-68.99	≤-13dBm	PASS
n12	15	10	DFT-QPSK	M	Edge_1RB_Left	30	1000	-63.00	≤-13dBm	PASS
n12	15	10	DFT-QPSK	M	Edge_1RB_Left	1000	3000	-49.30	≤-13dBm	PASS
n12	15	10	DFT-QPSK	M	Edge_1RB_Left	3000	12000	-62.83	≤-13dBm	PASS
n12	15	10	DFT-QPSK	M	Edge_1RB_Left	12000	20000	-68.68	≤-13dBm	PASS
n12	15	10	DFT-QPSK	H	Edge_1RB_Left	30	1000	-64.23	≤-13dBm	PASS
n12	15	10	DFT-QPSK	H	Edge_1RB_Left	1000	3000	-47.58	≤-13dBm	PASS
n12	15	10	DFT-QPSK	H	Edge_1RB_Left	3000	12000	-66.44	≤-13dBm	PASS
n12	15	10	DFT-QPSK	H	Edge_1RB_Left	12000	20000	-68.45	≤-13dBm	PASS
n12	15	15	DFT-QPSK	L	Edge_1RB_Left	30	1000	-64.06	≤-13dBm	PASS
n12	15	15	DFT-QPSK	L	Edge_1RB_Left	1000	3000	-50.82	≤-13dBm	PASS
n12	15	15	DFT-QPSK	L	Edge_1RB_Left	3000	12000	-67.22	≤-13dBm	PASS
n12	15	15	DFT-QPSK	L	Edge_1RB_Left	12000	20000	-69.05	≤-13dBm	PASS
n12	15	15	DFT-QPSK	M	Edge_1RB_Left	30	1000	-63.53	≤-13dBm	PASS
n12	15	15	DFT-QPSK	M	Edge_1RB_Left	1000	3000	-50.13	≤-13dBm	PASS
n12	15	15	DFT-QPSK	M	Edge_1RB_Left	3000	12000	-66.90	≤-13dBm	PASS
n12	15	15	DFT-QPSK	M	Edge_1RB_Left	12000	20000	-68.63	≤-13dBm	PASS
n12	15	15	DFT-QPSK	H	Edge_1RB_Left	30	1000	-64.10	≤-13dBm	PASS
n12	15	15	DFT-QPSK	H	Edge_1RB_Left	1000	3000	-50.83	≤-13dBm	PASS
n12	15	15	DFT-QPSK	H	Edge_1RB_Left	3000	12000	-66.97	≤-13dBm	PASS
n12	15	15	DFT-QPSK	H	Edge_1RB_Left	12000	20000	-68.97	≤-13dBm	PASS

Test Graphs

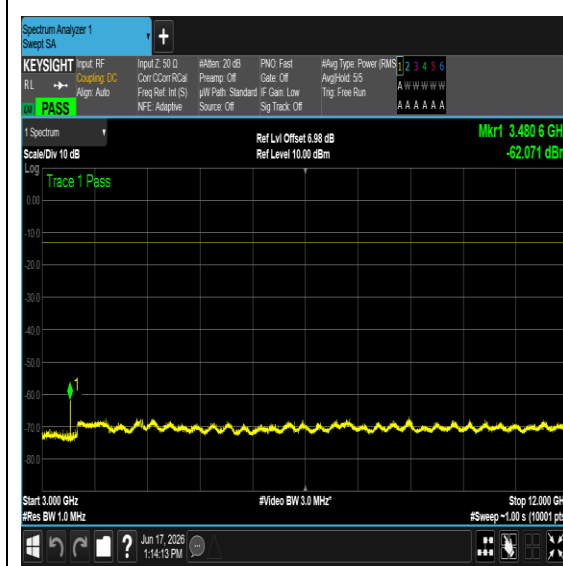




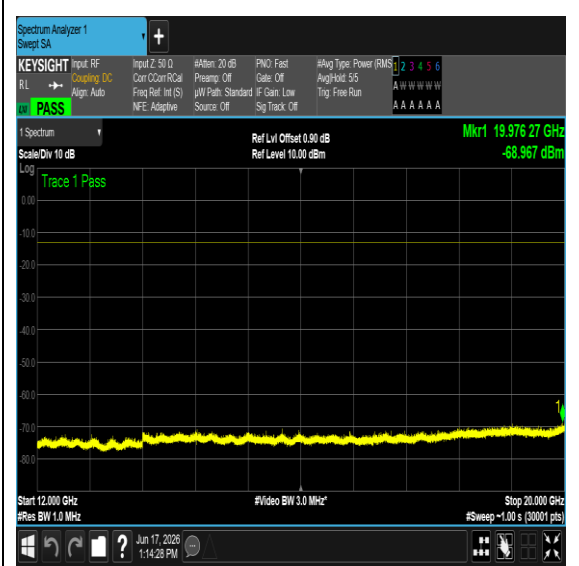
NTNV-n12-PC3-15-5-M-DFT-QPSK-
Edge_1RB_Left-3000-12000-PASS



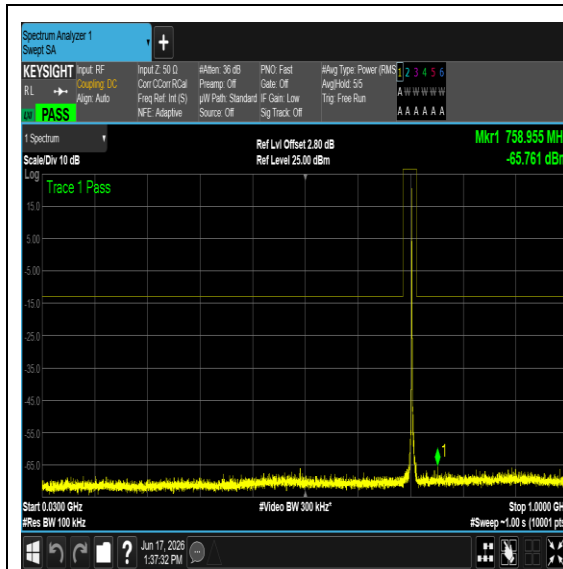
NTNV-n12-PC3-15-5-M-DFT-QPSK-
Edge_1RB_Left-12000-20000-PASS



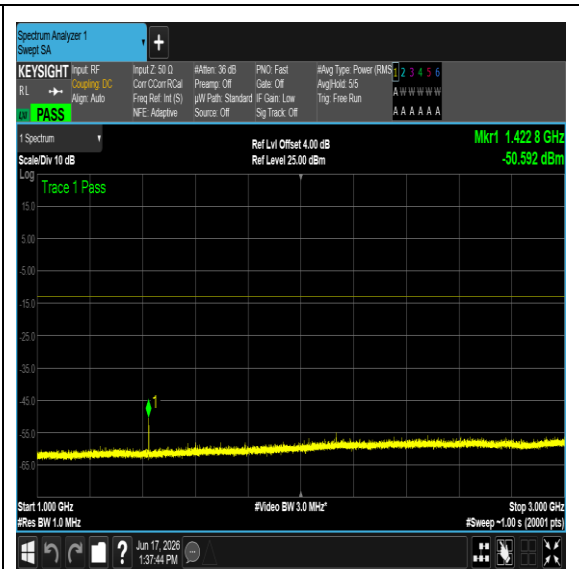
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Edge_1RB_Left-30-1000-PASS



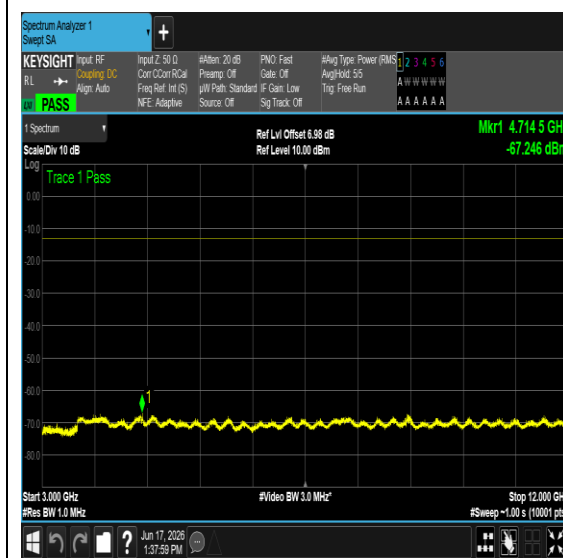
NTNV-n12-PC3-15-5-H-DFT-QPSK-
Edge_1RB_Left-1000-3000-PASS



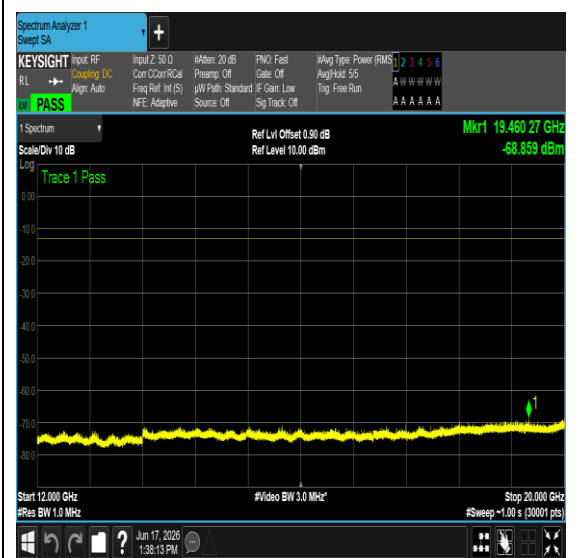
NTNV-n12-PC3-15-5-H-DFT-QPSK-
Edge_1RB_Left-3000-12000-PASS



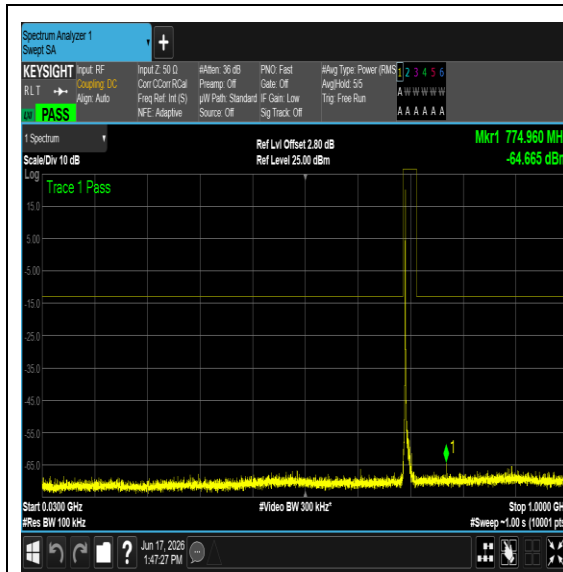
NTNV-n12-PC3-15-5-H-DFT-QPSK-
Edge_1RB_Left-12000-20000-PASS



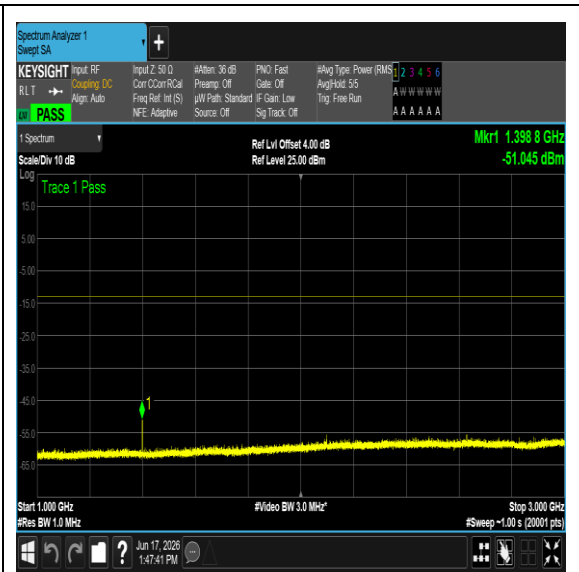
NTNV-n12-PC3-15-10-L-DFT-QPSK-
Edge_1RB_Left-30-1000-PASS



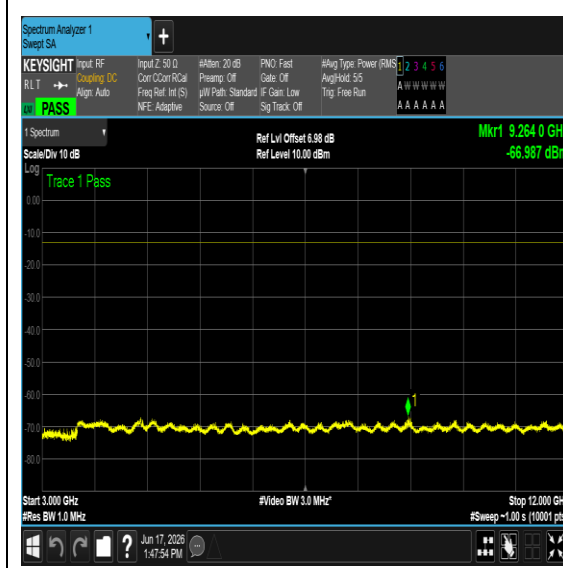
NTNV-n12-PC3-15-10-L-DFT-QPSK-
Edge_1RB_Left-1000-3000-PASS



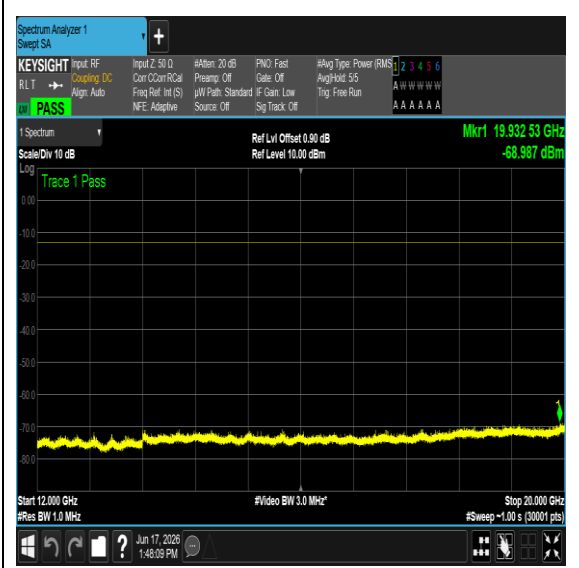
NTNV-n12-PC3-15-10-L-DFT-QPSK-
Edge_1RB_Left-3000-12000-PASS



NTNV-n12-PC3-15-10-L-DFT-QPSK-
Edge_1RB_Left-12000-20000-PASS



NTNV-n12-PC3-15-10-M-DFT-QPSK-
Edge_1RB_Left-30-1000-PASS



NTNV-n12-PC3-15-10-M-DFT-QPSK-
Edge_1RB_Left-1000-3000-PASS