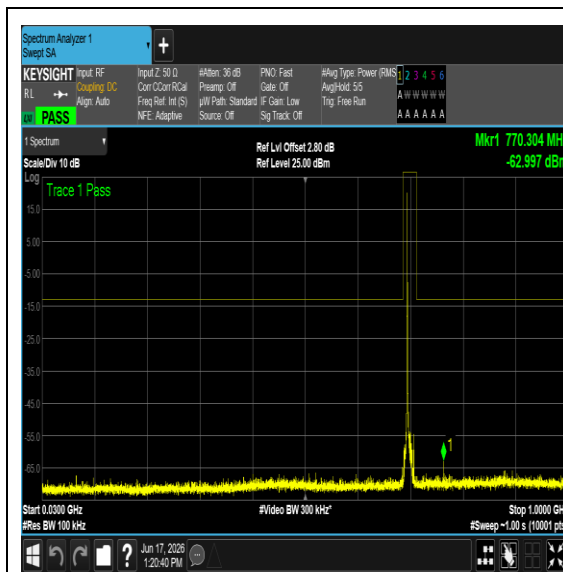
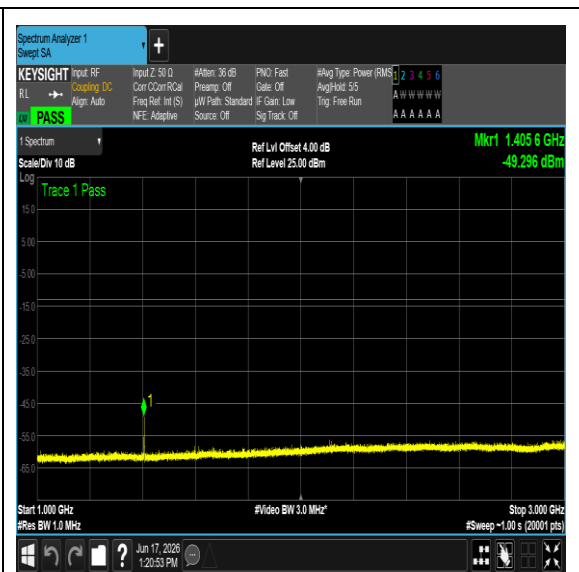
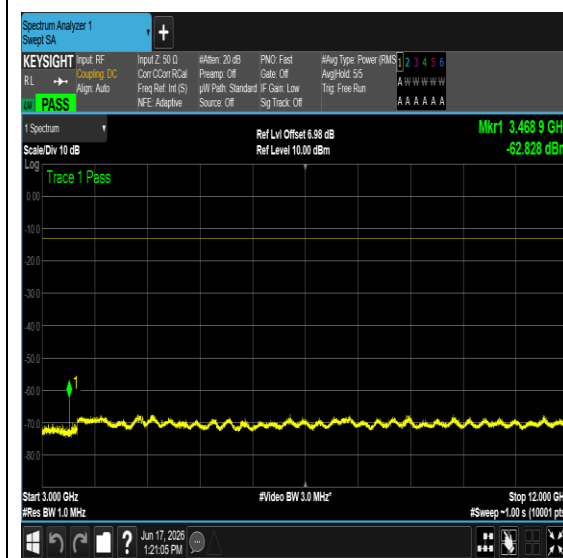




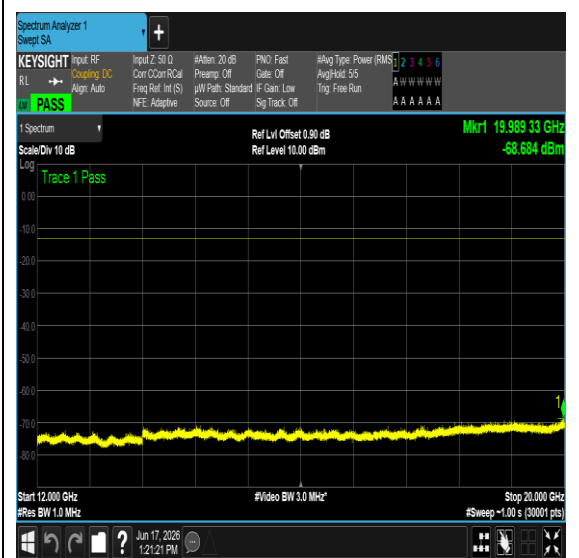
NTNV-n12-PC3-15-10-M-DFT-QPSK-
Edge_1RB_Left-3000-12000-PASS



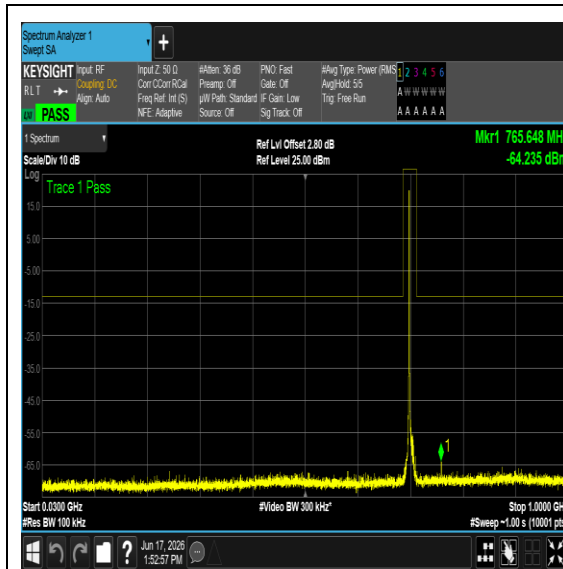
NTNV-n12-PC3-15-10-M-DFT-QPSK-
Edge_1RB_Left-12000-20000-PASS



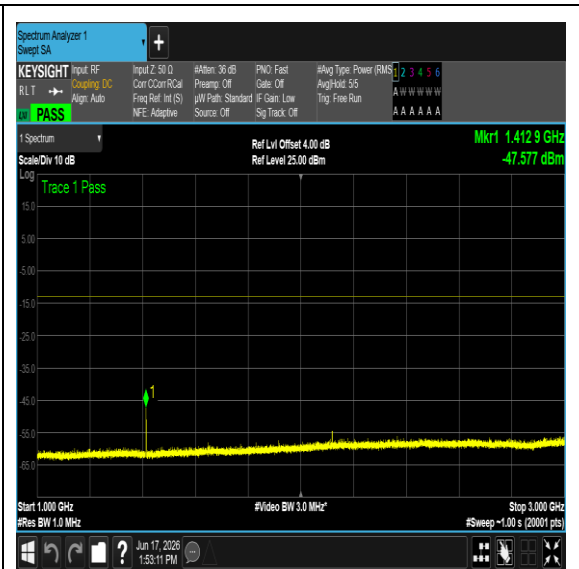
NTNV-n12-PC3-15-10-H-DFT-QPSK-
Edge_1RB_Left-30-1000-PASS



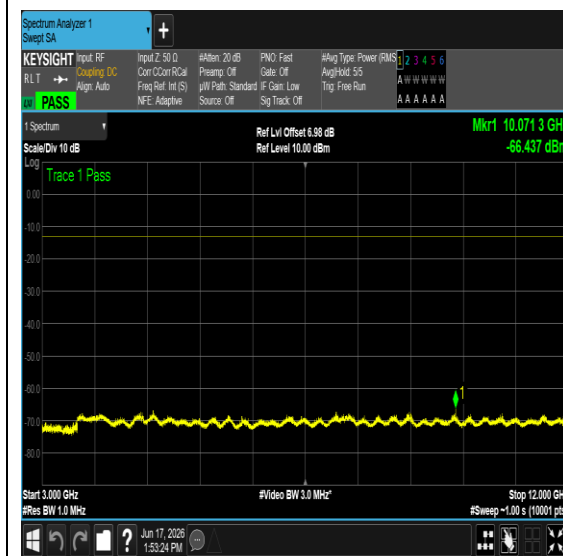
NTNV-n12-PC3-15-10-H-DFT-QPSK-
Edge_1RB_Left-1000-3000-PASS



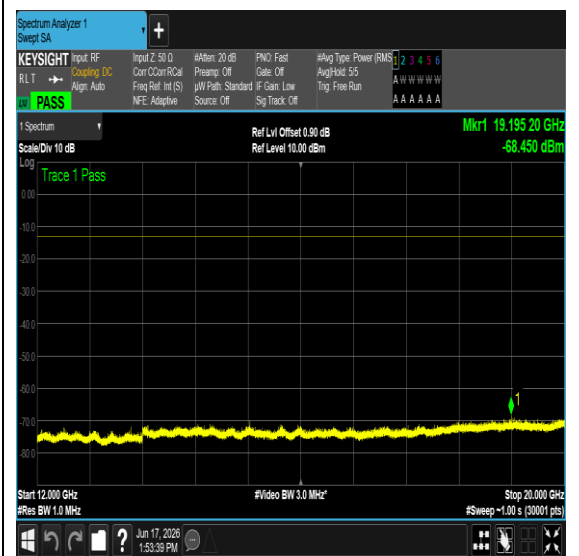
NTNV-n12-PC3-15-10-H-DFT-QPSK-
Edge_1RB_Left-3000-12000-PASS



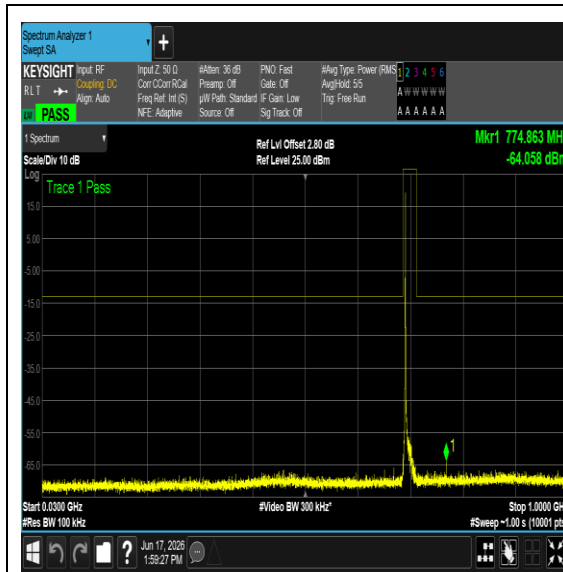
NTNV-n12-PC3-15-10-H-DFT-QPSK-
Edge_1RB_Left-12000-20000-PASS



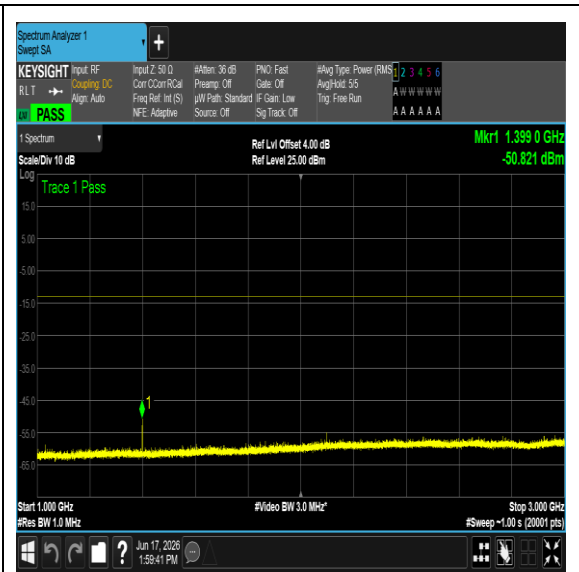
NTNV-n12-PC3-15-15-L-DFT-QPSK-
Edge_1RB_Left-30-1000-PASS



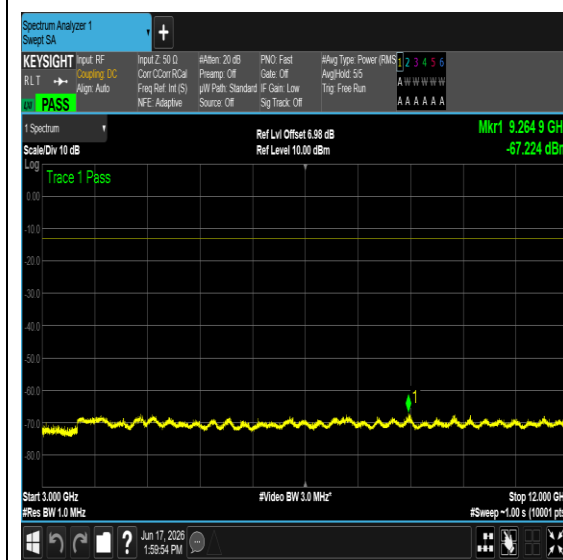
NTNV-n12-PC3-15-15-L-DFT-QPSK-
Edge_1RB_Left-1000-3000-PASS



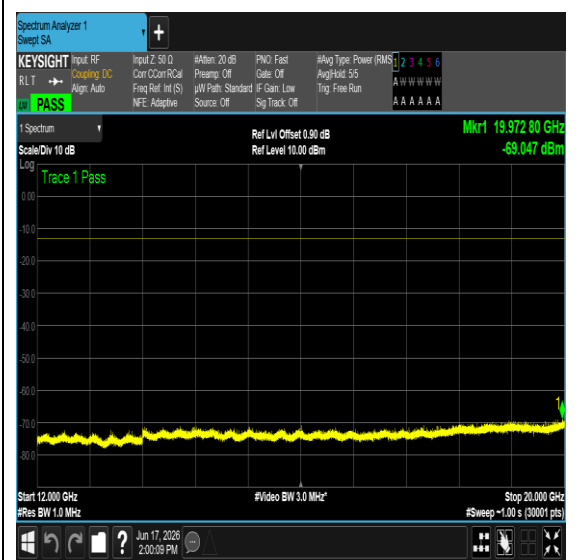
NTNV-n12-PC3-15-15-L-DFT-QPSK-
Edge_1RB_Left-3000-12000-PASS



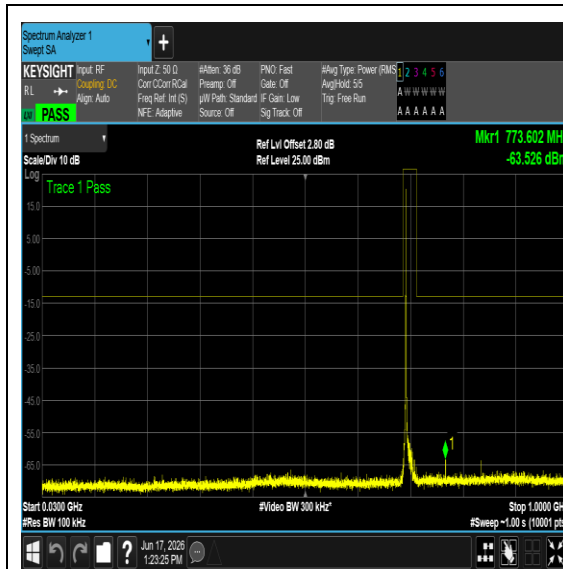
NTNV-n12-PC3-15-15-L-DFT-QPSK-
Edge_1RB_Left-12000-20000-PASS



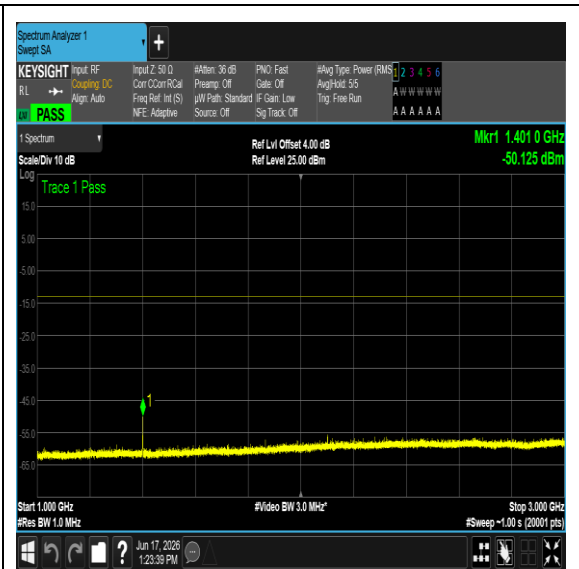
NTNV-n12-PC3-15-15-M-DFT-QPSK-
Edge_1RB_Left-30-1000-PASS



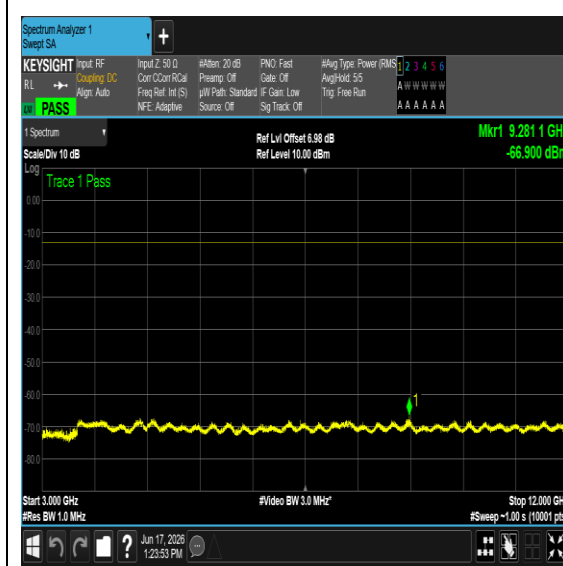
NTNV-n12-PC3-15-15-M-DFT-QPSK-
Edge_1RB_Left-1000-3000-PASS



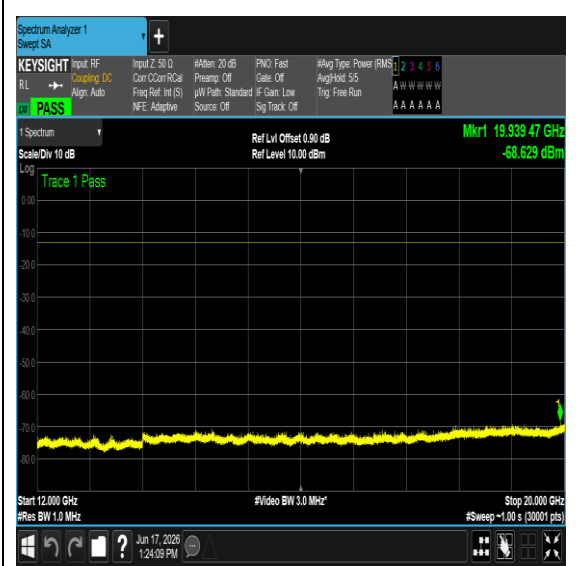
NTNV-n12-PC3-15-15-M-DFT-QPSK-
Edge_1RB_Left-3000-12000-PASS



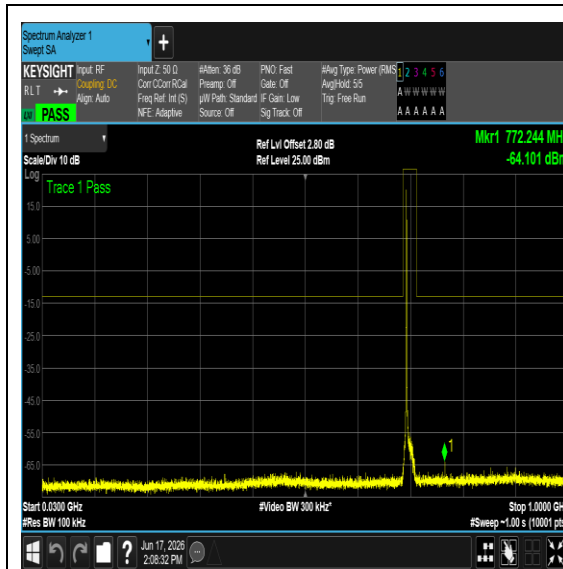
NTNV-n12-PC3-15-15-M-DFT-QPSK-
Edge_1RB_Left-12000-20000-PASS



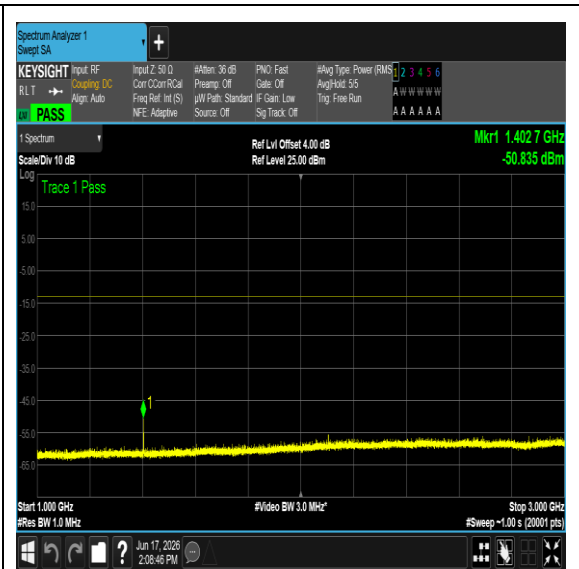
NTNV-n12-PC3-15-15-H-DFT-QPSK-
Edge_1RB_Left-30-1000-PASS



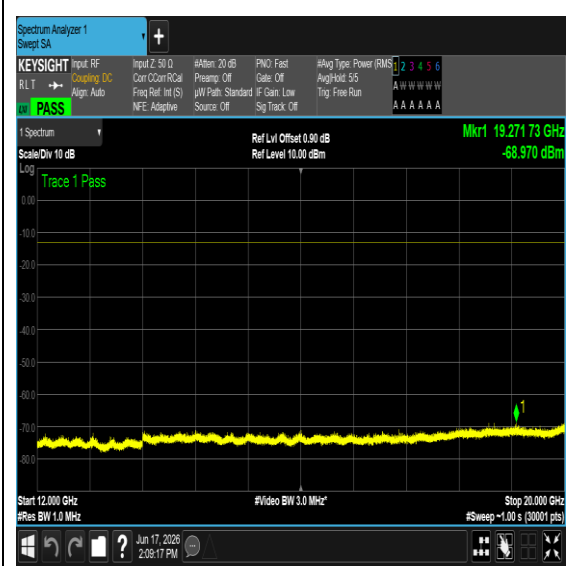
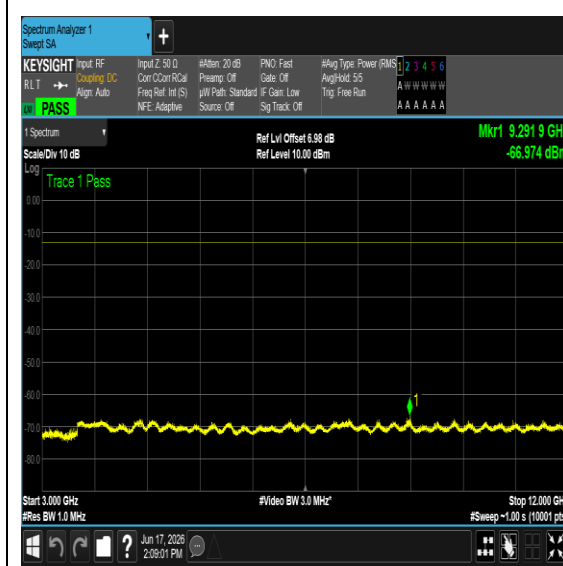
NTNV-n12-PC3-15-15-H-DFT-QPSK-
Edge_1RB_Left-1000-3000-PASS



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



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



Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Voltage (V)	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
n12	15	5	DFT-QPSK	L	Outer_Full	VL	NT	13.32	0.01899	PASS
n12	15	5	DFT-QPSK	L	Outer_Full	VN	NT	7.21	0.01028	PASS
n12	15	5	DFT-QPSK	L	Outer_Full	VH	NT	7.91	0.01128	PASS
n12	15	5	DFT-QPSK	H	Outer_Full	VL	NT	19.99	0.02801	PASS
n12	15	5	DFT-QPSK	H	Outer_Full	VN	NT	12.18	0.01706	PASS
n12	15	5	DFT-QPSK	H	Outer_Full	VH	NT	13.08	0.01833	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Voltage	Temperature (°C)	Deviation(Hz)	Deviation (ppm)	Verdict
n12	15	5	DFT-QPSK	L	Outer_Full	NV	-30	17.40	0.024811	PASS
n12	15	5	DFT-QPSK	L	Outer_Full	NV	-20	13.23	0.018865	PASS
n12	15	5	DFT-QPSK	L	Outer_Full	NV	-10	7.63	0.010878	PASS
n12	15	5	DFT-QPSK	L	Outer_Full	NV	0	7.58	0.010807	PASS
n12	15	5	DFT-QPSK	L	Outer_Full	NV	10	8.79	0.012532	PASS
n12	15	5	DFT-QPSK	L	Outer_Full	NV	20	17.58	0.025059	PASS
n12	15	5	DFT-QPSK	L	Outer_Full	NV	30	14.87	0.021204	PASS
n12	15	5	DFT-QPSK	L	Outer_Full	NV	40	7.37	0.010502	PASS
n12	15	5	DFT-QPSK	L	Outer_Full	NV	50	7.12	0.010152	PASS
n12	15	5	DFT-QPSK	H	Outer_Full	NV	-30	9.27	0.012986	PASS
n12	15	5	DFT-QPSK	H	Outer_Full	NV	-20	3.59	0.005028	PASS
n12	15	5	DFT-QPSK	H	Outer_Full	NV	-10	15.61	0.021882	PASS
n12	15	5	DFT-QPSK	H	Outer_Full	NV	0	9.14	0.012805	PASS
n12	15	5	DFT-QPSK	H	Outer_Full	NV	10	2.85	0.003989	PASS
n12	15	5	DFT-QPSK	H	Outer_Full	NV	20	15.86	0.022223	PASS
n12	15	5	DFT-QPSK	H	Outer_Full	NV	30	12.94	0.018132	PASS
n12	15	5	DFT-QPSK	H	Outer_Full	NV	40	2.34	0.003278	PASS
n12	15	5	DFT-QPSK	H	Outer_Full	NV	50	5.94	0.008321	PASS

FCC-SA N13

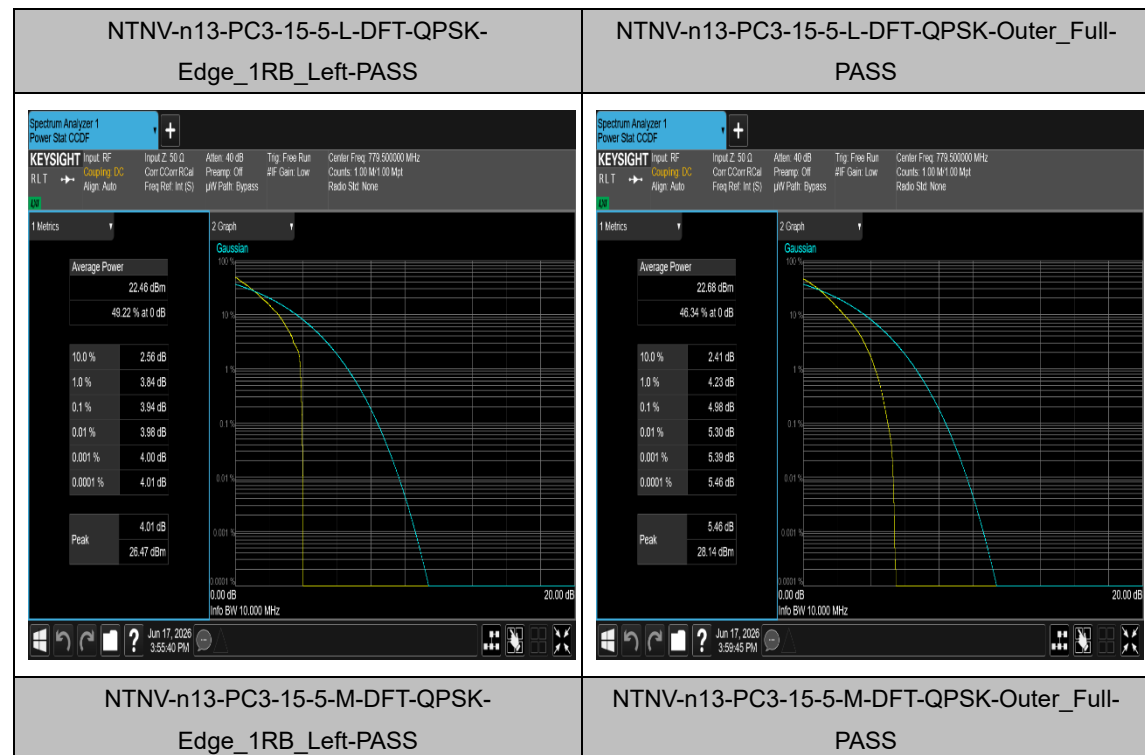
Peak-to-Average Ratio for SA

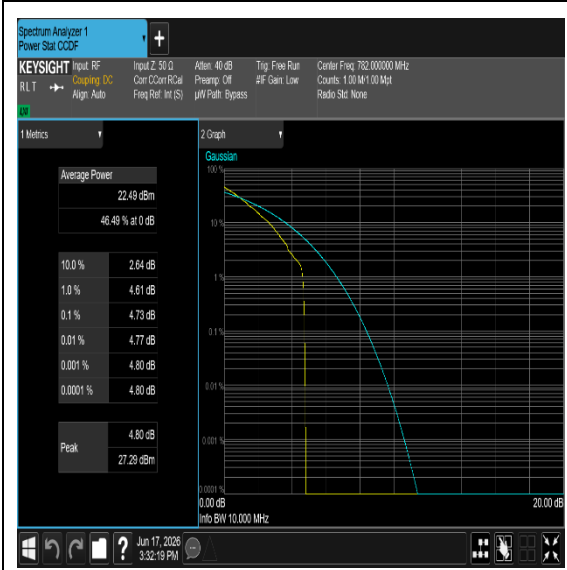
Peak-to-Average Ratio(CCDF)

Test Result

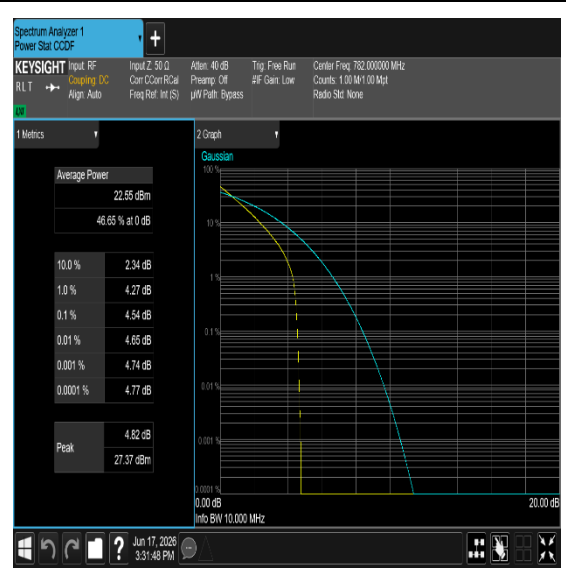
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Result (dB)	Limit	Verdict
n13	15	5	DFT-QPSK	L	Edge_1RB_Left	3.94	≤13dB	PASS
n13	15	5	DFT-QPSK	L	Outer_Full	4.98	≤13dB	PASS
n13	15	5	DFT-QPSK	M	Edge_1RB_Left	4.73	≤13dB	PASS
n13	15	5	DFT-QPSK	M	Outer_Full	4.54	≤13dB	PASS
n13	15	5	DFT-QPSK	H	Edge_1RB_Left	4.38	≤13dB	PASS
n13	15	5	DFT-QPSK	H	Outer_Full	4.47	≤13dB	PASS
n13	15	10	DFT-QPSK	M	Edge_1RB_Left	3.92	≤13dB	PASS
n13	15	10	DFT-QPSK	M	Outer_Full	4.77	≤13dB	PASS

Test Graphs

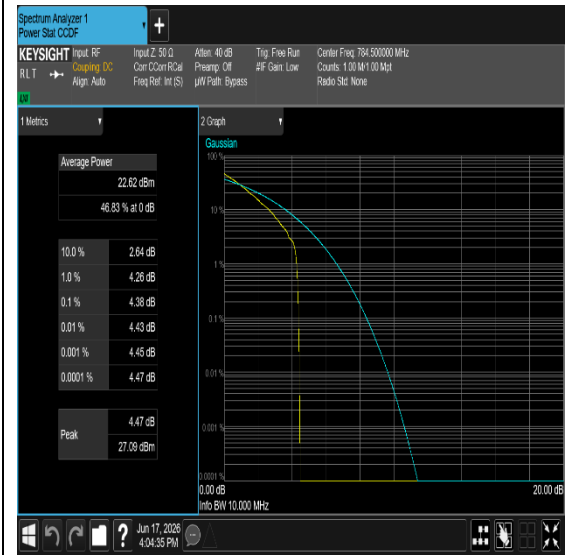




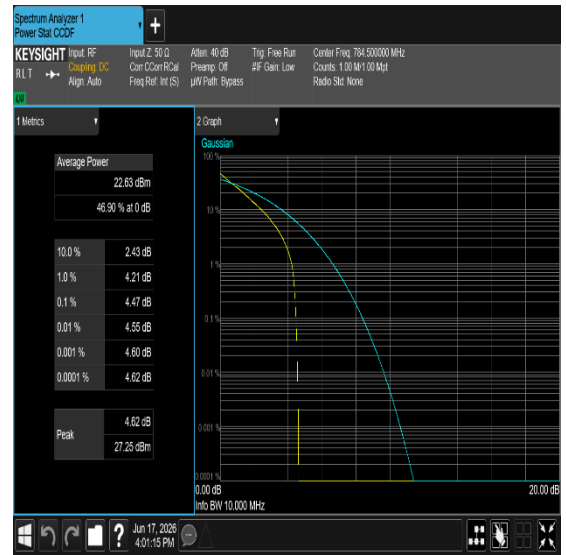
NTNV-n13-PC3-15-5-H-DFT-QPSK-
Edge_1RB_Left-PASS



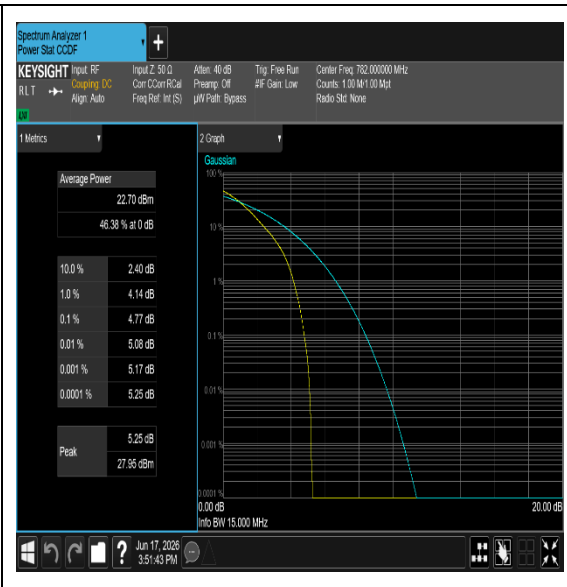
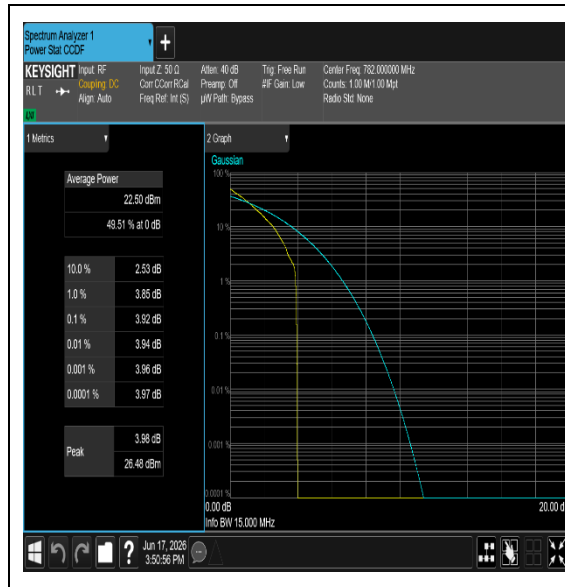
NTNV-n13-PC3-15-5-H-DFT-QPSK-Outer_Full-
PASS



NTNV-n13-PC3-15-10-M-DFT-QPSK-
Edge_1RB_Left-PASS



NTNV-n13-PC3-15-10-M-DFT-QPSK-Outer_Full-
PASS

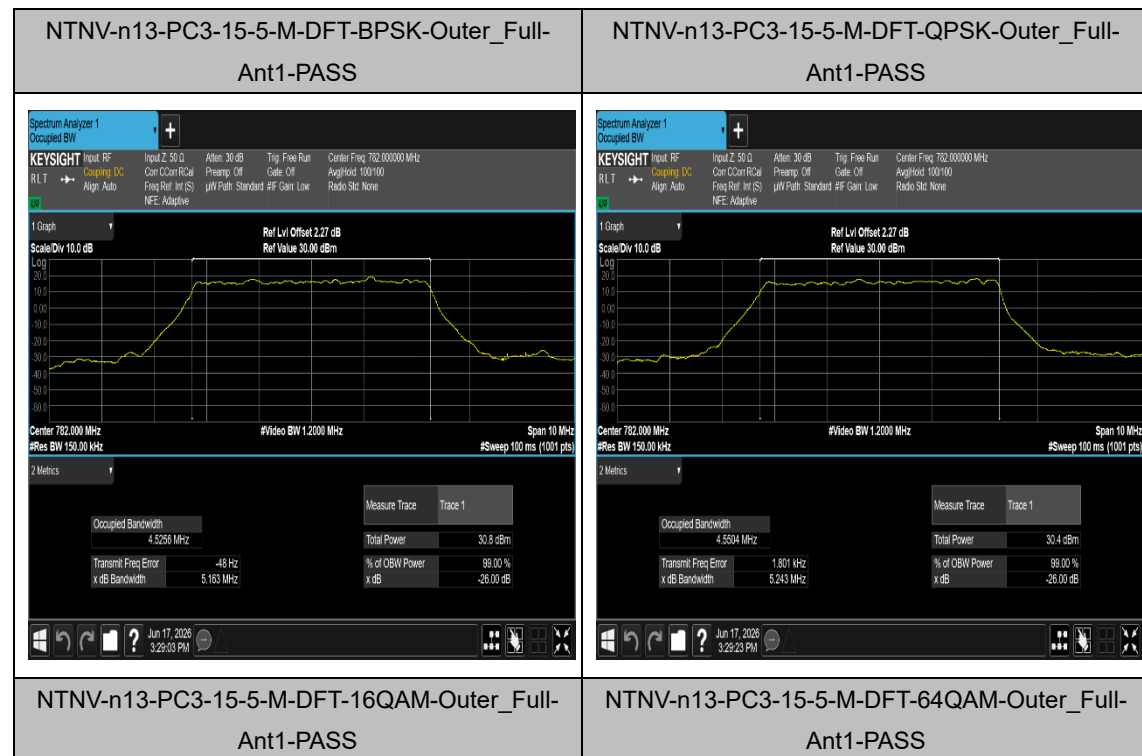


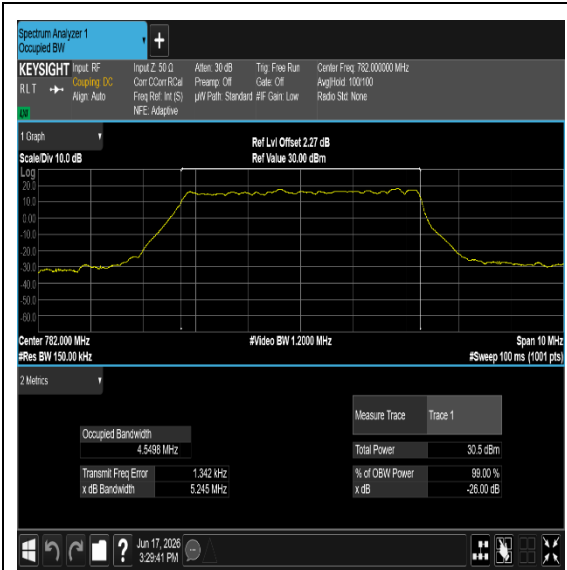
26dB Bandwidth and Occupied Bandwidth for SA

Test Result

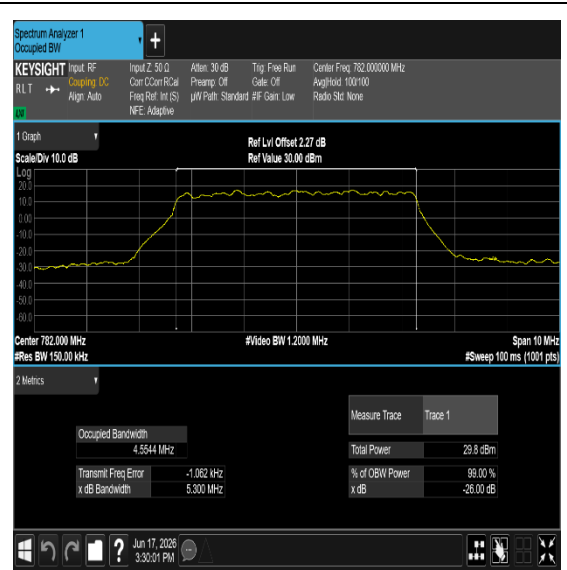
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	OBW (MHz)	EBW (MHz)	Verdict
n13	15	5	DFT-BPSK	M	Outer_Full	4.5256	5.163	PASS
n13	15	5	DFT-QPSK	M	Outer_Full	4.5504	5.243	PASS
n13	15	5	DFT-16QAM	M	Outer_Full	4.5498	5.245	PASS
n13	15	5	DFT-64QAM	M	Outer_Full	4.5544	5.300	PASS
n13	15	5	DFT-256QAM	M	Outer_Full	4.5124	5.223	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	8.9845	9.926	PASS
n13	15	10	DFT-QPSK	M	Outer_Full	8.9543	9.787	PASS
n13	15	10	DFT-16QAM	M	Outer_Full	8.9575	9.751	PASS
n13	15	10	DFT-64QAM	M	Outer_Full	8.9343	9.744	PASS
n13	15	10	DFT-256QAM	M	Outer_Full	8.9361	9.781	PASS

Test Graphs

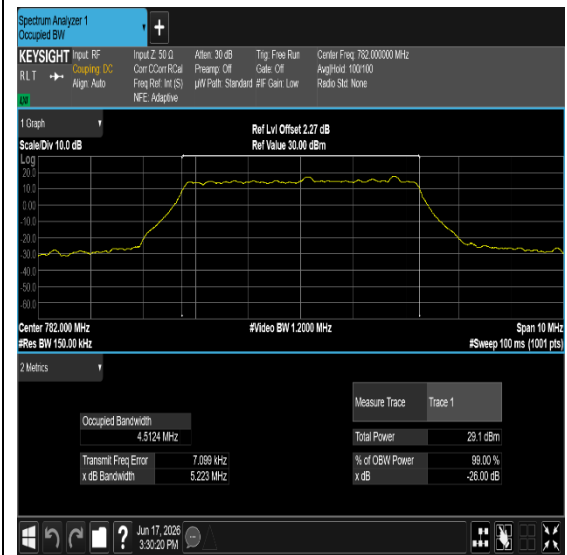




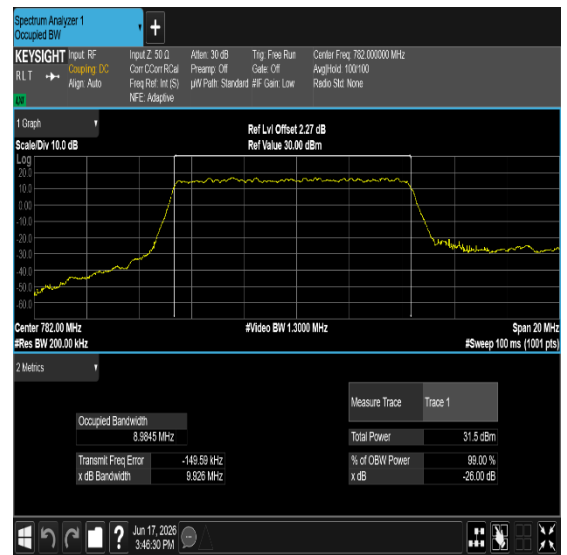
NTNV-n13-PC3-15-5-M-DFT-256QAM-Outer_Full-Ant1-PASS



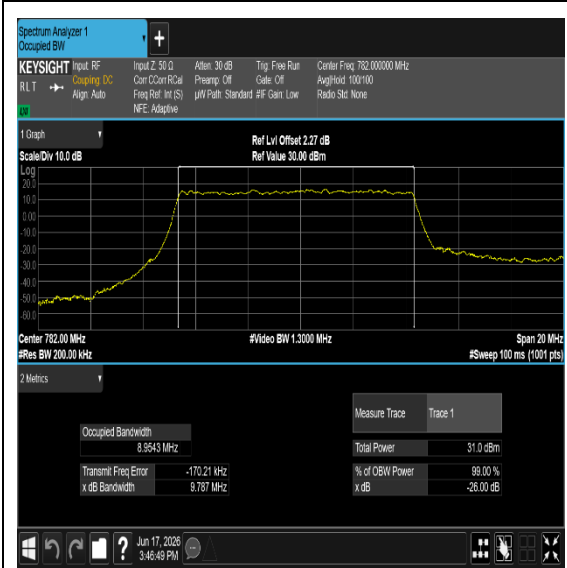
NTNV-n13-PC3-15-10-M-DFT-BPSK-Outer_Full-Ant1-PASS



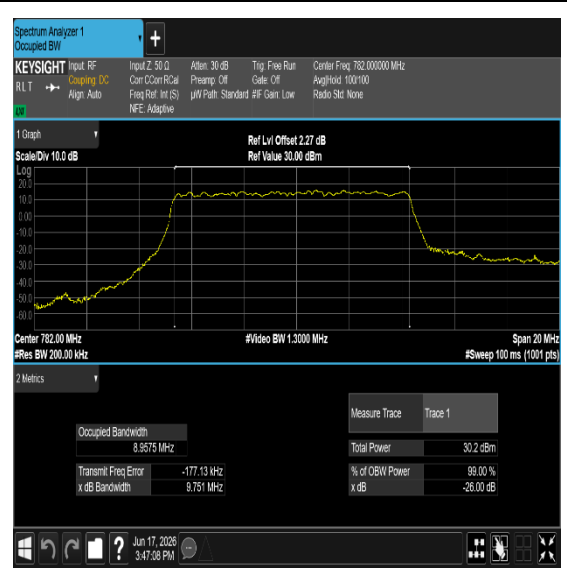
NTNV-n13-PC3-15-10-M-DFT-QPSK-Outer_Full-Ant1-PASS



NTNV-n13-PC3-15-10-M-DFT-16QAM-Outer_Full-Ant1-PASS



NTNV-n13-PC3-15-10-M-DFT-64QAM-Outer_Full-Ant1-PASS



NTNV-n13-PC3-15-10-M-DFT-256QAM-Outer_Full-Ant1-PASS

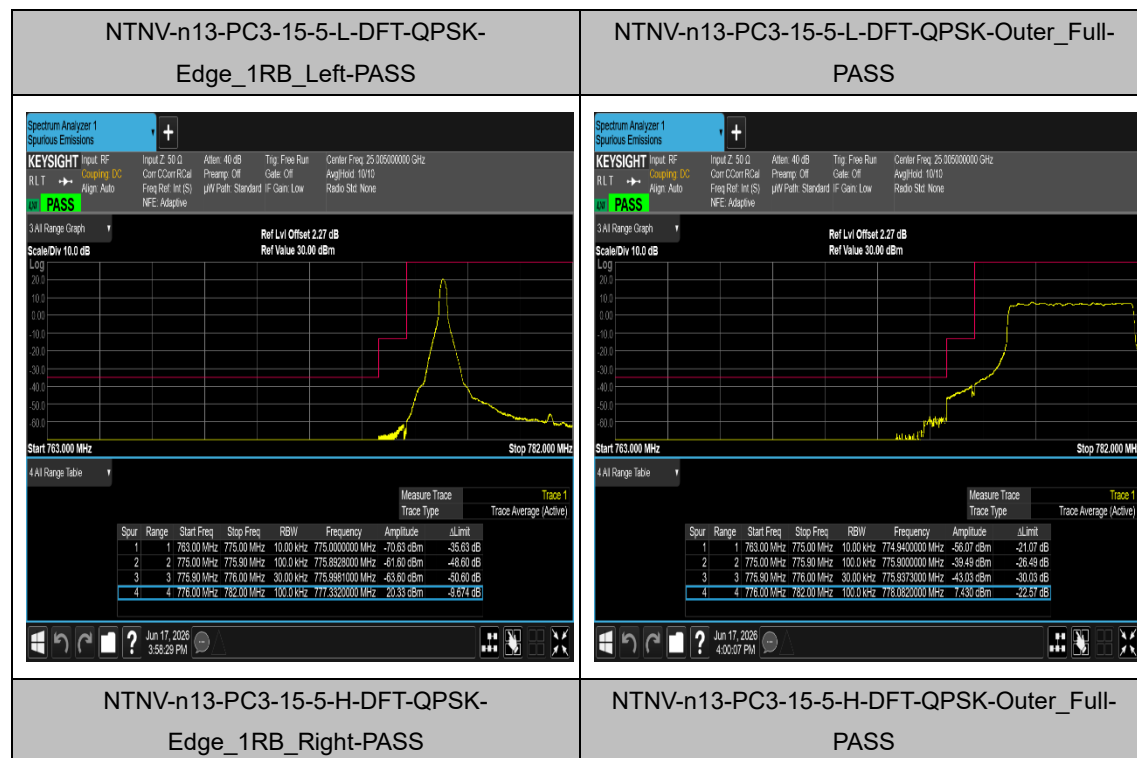


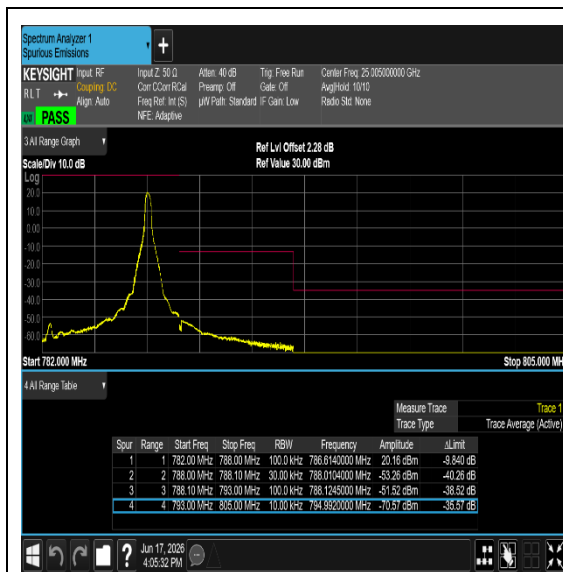
Band Edge for SA

Test Result

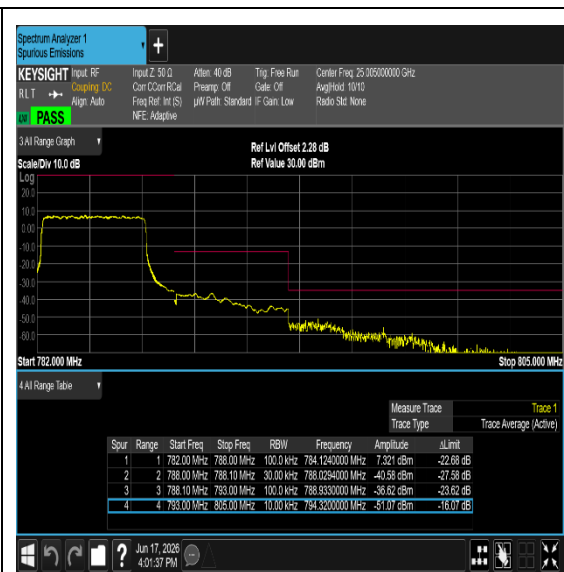
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Result (dBm)	Verdict
n13	15	5	DFT-QPSK	L	Edge_1RB_Left	-70.63	PASS
n13	15	5	DFT-QPSK	L	Outer_Full	-56.07	PASS
n13	15	5	DFT-QPSK	H	Edge_1RB_Right	-70.57	PASS
n13	15	5	DFT-QPSK	H	Outer_Full	-51.07	PASS
n13	15	10	DFT-QPSK	M	Edge_1RB_Left	-70.51	PASS
n13	15	10	DFT-QPSK	M	Edge_1RB_Right	-69.78	PASS
n13	15	10	DFT-QPSK	M	Outer_Full	-45.50	PASS

Test Graphs

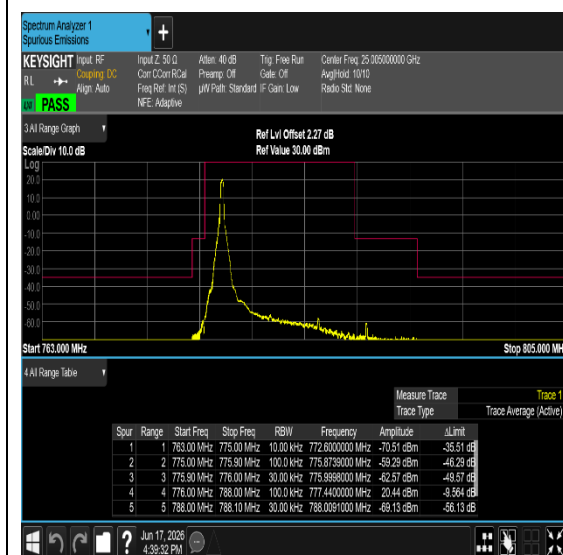




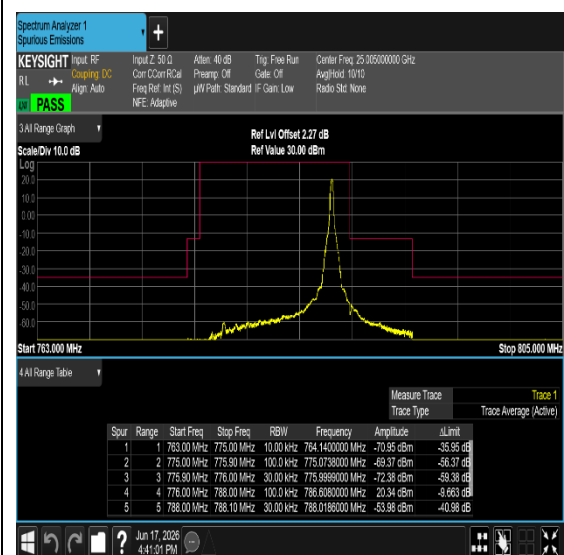
NTNV-n13-PC3-15-10-M-DFT-QPSK-
Edge_1RB_Left-PASS

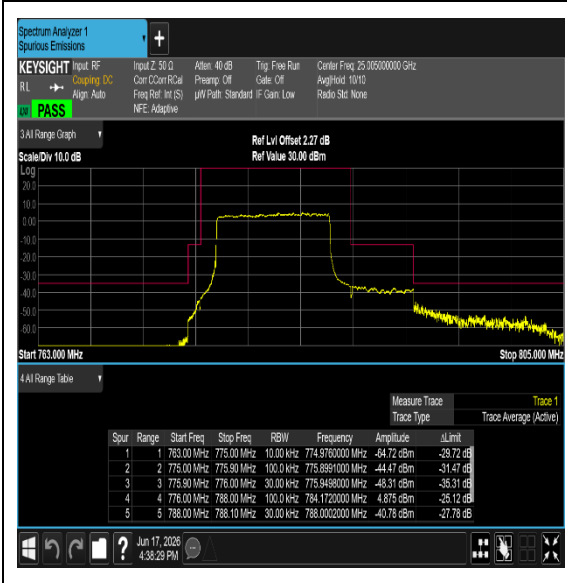


NTNV-n13-PC3-15-10-M-DFT-QPSK-
Edge_1RB_Right-PASS



NTNV-n13-PC3-15-10-M-DFT-QPSK-Outer_Full-
PASS



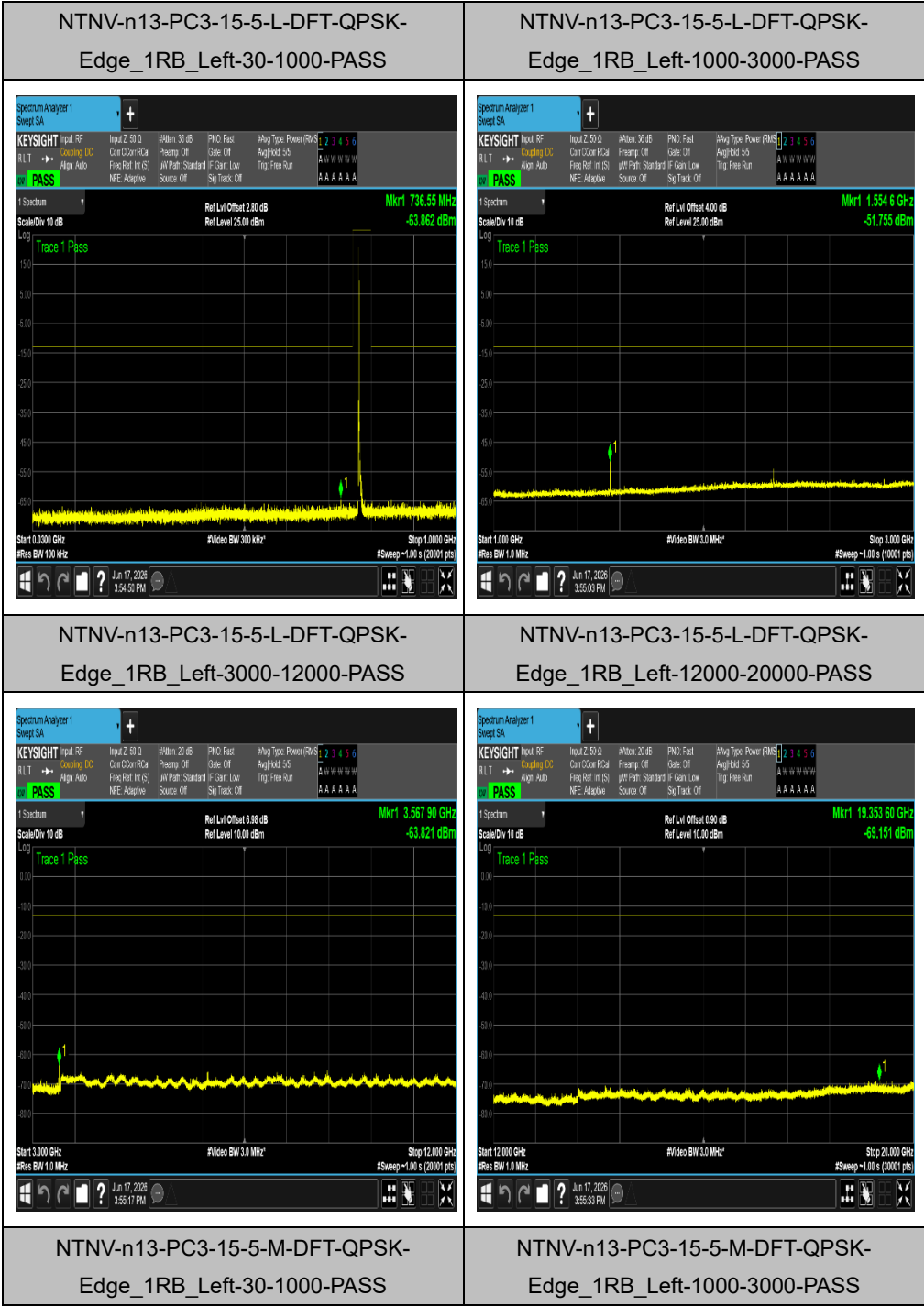


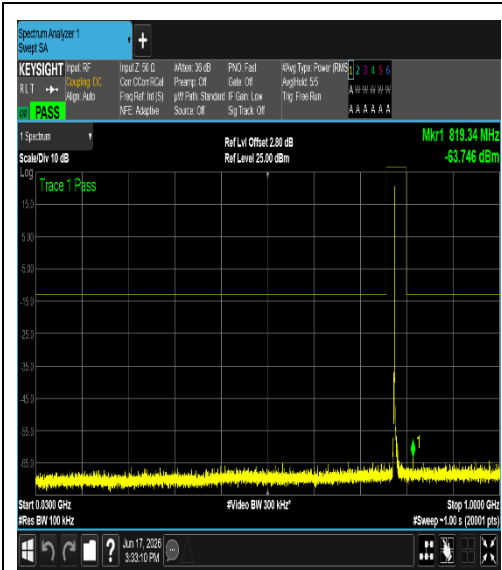
Conducted Spurious Emission for SA

Test Result

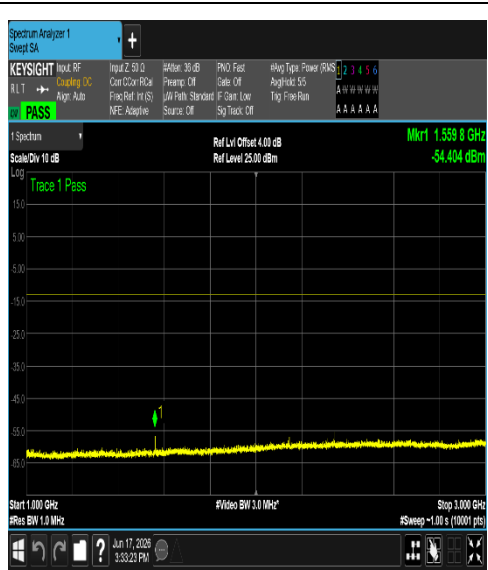
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit	Verdict
n13	15	5	DFT-QPSK	L	Edge_1RB_Left	30	1000	-63.86	≤-13dBm	PASS
n13	15	5	DFT-QPSK	L	Edge_1RB_Left	1000	3000	-51.75	≤-13dBm	PASS
n13	15	5	DFT-QPSK	L	Edge_1RB_Left	3000	12000	-63.82	≤-13dBm	PASS
n13	15	5	DFT-QPSK	L	Edge_1RB_Left	12000	20000	-69.15	≤-13dBm	PASS
n13	15	5	DFT-QPSK	M	Edge_1RB_Left	30	1000	-63.75	≤-13dBm	PASS
n13	15	5	DFT-QPSK	M	Edge_1RB_Left	1000	3000	-54.40	≤-13dBm	PASS
n13	15	5	DFT-QPSK	M	Edge_1RB_Left	3000	12000	-63.95	≤-13dBm	PASS
n13	15	5	DFT-QPSK	M	Edge_1RB_Left	12000	20000	-69.11	≤-13dBm	PASS
n13	15	5	DFT-QPSK	H	Edge_1RB_Left	30	1000	-64.29	≤-13dBm	PASS
n13	15	5	DFT-QPSK	H	Edge_1RB_Left	1000	3000	-53.29	≤-13dBm	PASS
n13	15	5	DFT-QPSK	H	Edge_1RB_Left	3000	12000	-64.27	≤-13dBm	PASS
n13	15	5	DFT-QPSK	H	Edge_1RB_Left	12000	20000	-69.10	≤-13dBm	PASS
n13	15	10	DFT-QPSK	M	Edge_1RB_Left	30	1000	-62.28	≤-13dBm	PASS
n13	15	10	DFT-QPSK	M	Edge_1RB_Left	1000	3000	-52.32	≤-13dBm	PASS
n13	15	10	DFT-QPSK	M	Edge_1RB_Left	3000	12000	-63.17	≤-13dBm	PASS
n13	15	10	DFT-QPSK	M	Edge_1RB_Left	12000	20000	-69.06	≤-13dBm	PASS

Test Graphs

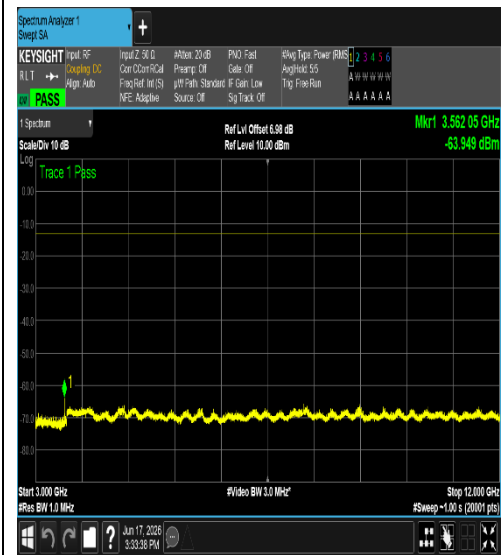




NTNV-n13-PC3-15-5-M-DFT-QPSK-
Edge_1RB_Left-3000-12000-PASS



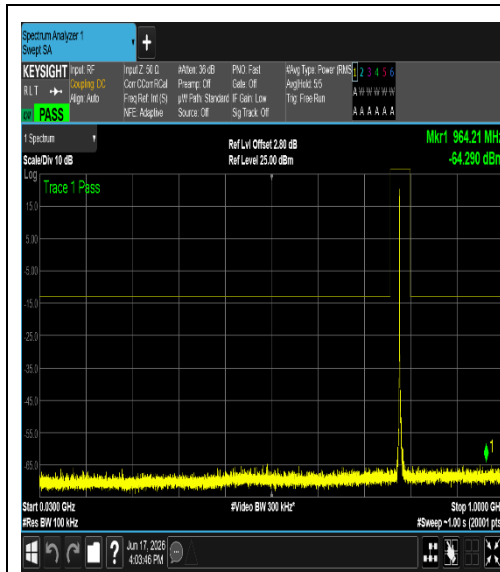
NTNV-n13-PC3-15-5-M-DFT-QPSK-
Edge_1RB_Left-12000-20000-PASS



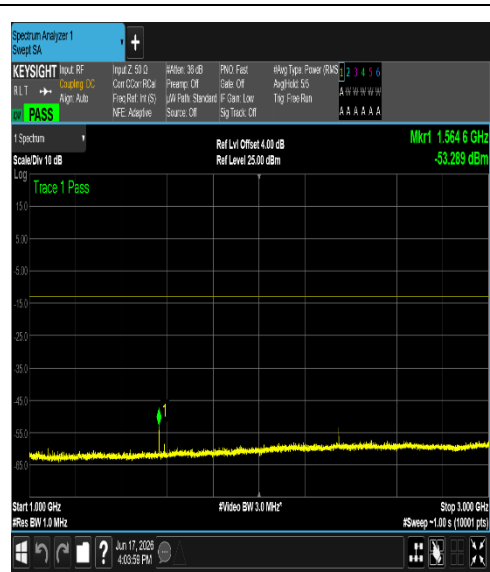
NTNV-n13-PC3-15-5-H-DFT-QPSK-
Edge_1RB_Left-30-1000-PASS



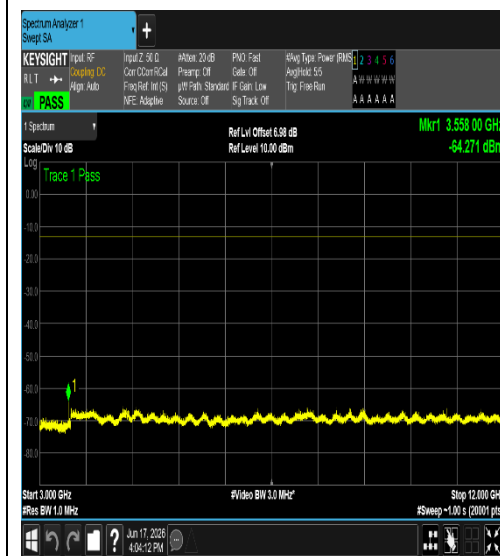
NTNV-n13-PC3-15-5-H-DFT-QPSK-
Edge_1RB_Left-1000-3000-PASS



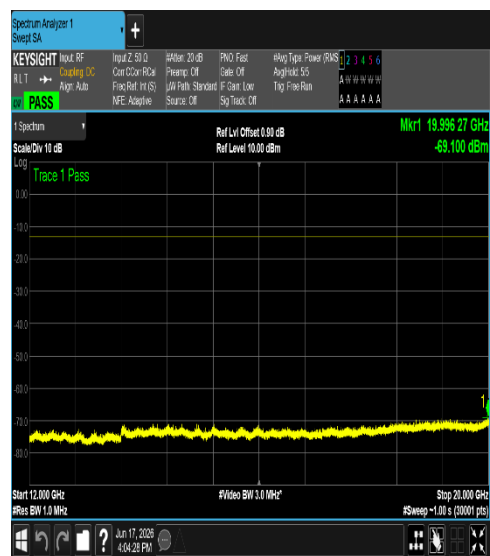
NTNV-n13-PC3-15-5-H-DFT-QPSK-
Edge_1RB_Left-3000-12000-PASS



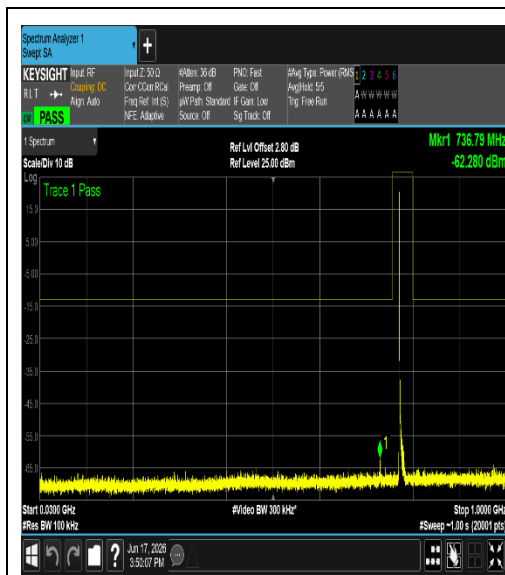
NTNV-n13-PC3-15-5-H-DFT-QPSK-
Edge_1RB_Left-12000-20000-PASS



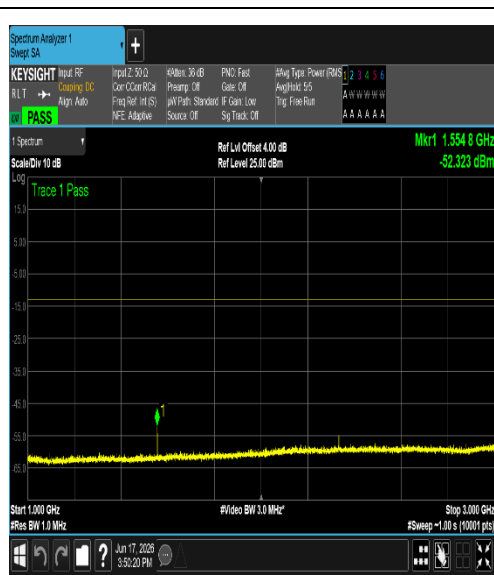
NTNV-n13-PC3-15-10-M-DFT-QPSK-
Edge_1RB_Left-30-1000-PASS



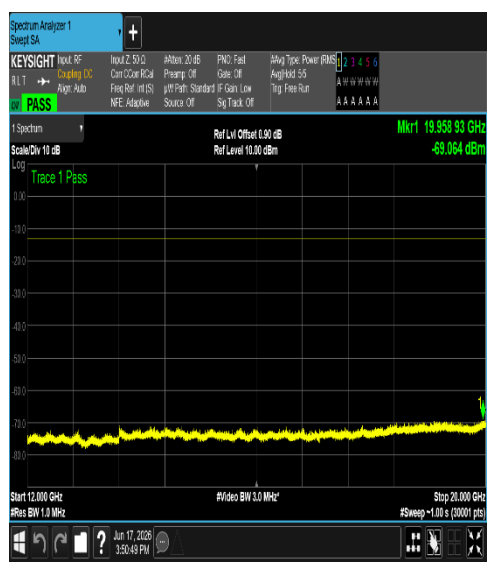
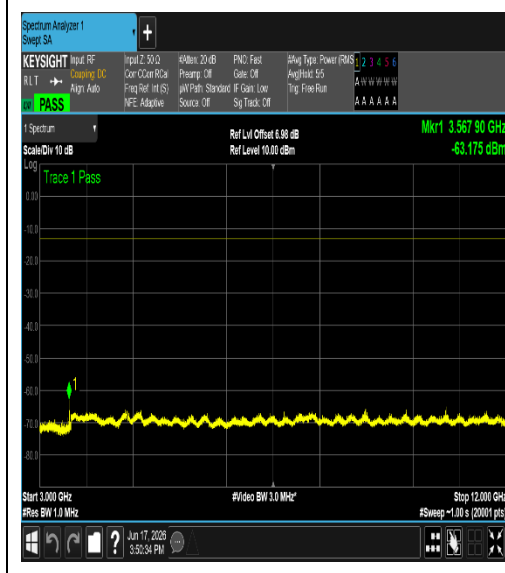
NTNV-n13-PC3-15-10-M-DFT-QPSK-
Edge_1RB_Left-1000-3000-PASS



NTNV-n13-PC3-15-10-M-DFT-QPSK-
Edge_1RB_Left-3000-12000-PASS



NTNV-n13-PC3-15-10-M-DFT-QPSK-
Edge_1RB_Left-12000-20000-PASS



Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Voltage (V)	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
n13	15	5	DFT-QPSK	L	Outer_Full	VL	NT	2.07	0.002650	PASS
n13	15	5	DFT-QPSK	L	Outer_Full	VN	NT	15.71	0.020160	PASS
n13	15	5	DFT-QPSK	L	Outer_Full	VH	NT	8.63	0.011068	PASS
n13	15	5	DFT-QPSK	H	Outer_Full	VL	NT	4.61	0.005880	PASS
n13	15	5	DFT-QPSK	H	Outer_Full	VN	NT	17.28	0.022021	PASS
n13	15	5	DFT-QPSK	H	Outer_Full	VH	NT	6.35	0.008093	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Voltage	Temperature (°C)	Deviation(Hz)	Deviation (ppm)	Verdict
n13	15	5	DFT-QPSK	L	Outer_Full	NV	-30	5.35	0.006863	PASS
n13	15	5	DFT-QPSK	L	Outer_Full	NV	-20	11.89	0.015250	PASS
n13	15	5	DFT-QPSK	L	Outer_Full	NV	-10	14.88	0.019092	PASS
n13	15	5	DFT-QPSK	L	Outer_Full	NV	0	8.64	0.011088	PASS
n13	15	5	DFT-QPSK	L	Outer_Full	NV	10	1.01	0.001296	PASS
n13	15	5	DFT-QPSK	L	Outer_Full	NV	20	14.38	0.018449	PASS
n13	15	5	DFT-QPSK	L	Outer_Full	NV	30	7.52	0.009646	PASS
n13	15	5	DFT-QPSK	L	Outer_Full	NV	40	1.98	0.002534	PASS
n13	15	5	DFT-QPSK	L	Outer_Full	NV	50	13.84	0.017756	PASS
n13	15	5	DFT-QPSK	H	Outer_Full	NV	-30	7.32	0.009326	PASS
n13	15	5	DFT-QPSK	H	Outer_Full	NV	-20	19.26	0.024549	PASS

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n13	15	5	DFT-QPSK	H	Outer_Ful I	NV	-10	13.15	0.016758	PASS
n13	15	5	DFT-QPSK	H	Outer_Ful I	NV	0	6.79	0.008651	PASS
n13	15	5	DFT-QPSK	H	Outer_Ful I	NV	10	3.16	0.004031	PASS
n13	15	5	DFT-QPSK	H	Outer_Ful I	NV	20	15.19	0.019368	PASS
n13	15	5	DFT-QPSK	H	Outer_Ful I	NV	30	9.74	0.012421	PASS
n13	15	5	DFT-QPSK	H	Outer_Ful I	NV	40	2.10	0.002673	PASS
n13	15	5	DFT-QPSK	H	Outer_Ful I	NV	50	15.79	0.020129	PASS

FCC-SA N71

Peak-to-Average Ratio for SA

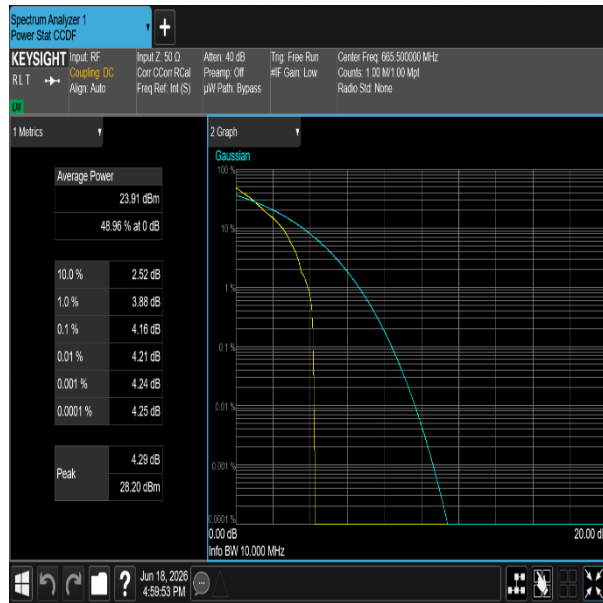
Peak-to-Average Ratio(CCDF)

Test Result

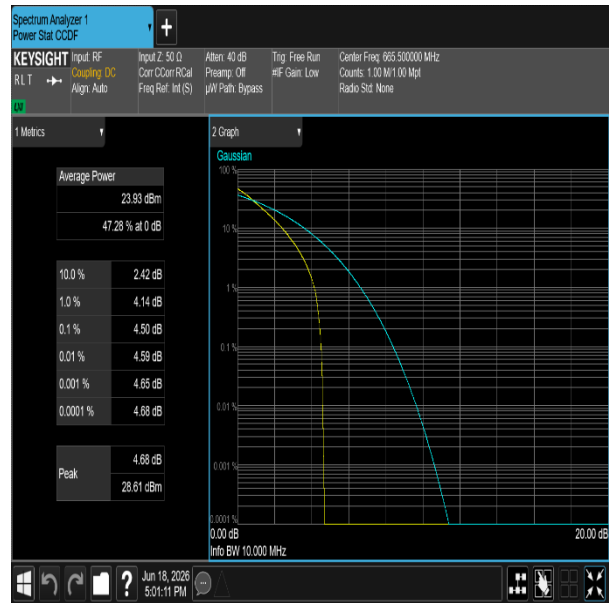
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Result (dB)	Limit	Verdict
n71	15	5	DFT-QPSK	L	Edge_1RB_Left	4.16	≤13dB	PASS
n71	15	5	DFT-QPSK	L	Outer_Full	4.5	≤13dB	PASS
n71	15	5	DFT-QPSK	M	Edge_1RB_Left	4.42	≤13dB	PASS
n71	15	5	DFT-QPSK	M	Outer_Full	4.77	≤13dB	PASS
n71	15	5	DFT-QPSK	H	Edge_1RB_Left	4.67	≤13dB	PASS
n71	15	5	DFT-QPSK	H	Outer_Full	4.64	≤13dB	PASS
n71	15	10	DFT-QPSK	L	Edge_1RB_Left	3.81	≤13dB	PASS
n71	15	10	DFT-QPSK	L	Outer_Full	4.58	≤13dB	PASS
n71	15	10	DFT-QPSK	M	Edge_1RB_Left	4.64	≤13dB	PASS
n71	15	10	DFT-QPSK	M	Outer_Full	4.58	≤13dB	PASS
n71	15	10	DFT-QPSK	H	Edge_1RB_Left	4.4	≤13dB	PASS
n71	15	10	DFT-QPSK	H	Outer_Full	4.86	≤13dB	PASS
n71	15	15	DFT-QPSK	L	Edge_1RB_Left	3.63	≤13dB	PASS
n71	15	15	DFT-QPSK	L	Outer_Full	4.69	≤13dB	PASS
n71	15	15	DFT-QPSK	M	Edge_1RB_Left	4.51	≤13dB	PASS
n71	15	15	DFT-QPSK	M	Outer_Full	4.68	≤13dB	PASS
n71	15	15	DFT-QPSK	H	Edge_1RB_Left	4	≤13dB	PASS
n71	15	15	DFT-QPSK	H	Outer_Full	3.91	≤13dB	PASS
n71	15	20	DFT-QPSK	L	Edge_1RB_Left	4.01	≤13dB	PASS
n71	15	20	DFT-QPSK	L	Outer_Full	4.93	≤13dB	PASS
n71	15	20	DFT-QPSK	M	Edge_1RB_Left	3.64	≤13dB	PASS
n71	15	20	DFT-QPSK	M	Outer_Full	4.7	≤13dB	PASS
n71	15	20	DFT-QPSK	H	Edge_1RB_Left	4.02	≤13dB	PASS
n71	15	20	DFT-QPSK	H	Outer_Full	4.69	≤13dB	PASS

Test Graphs

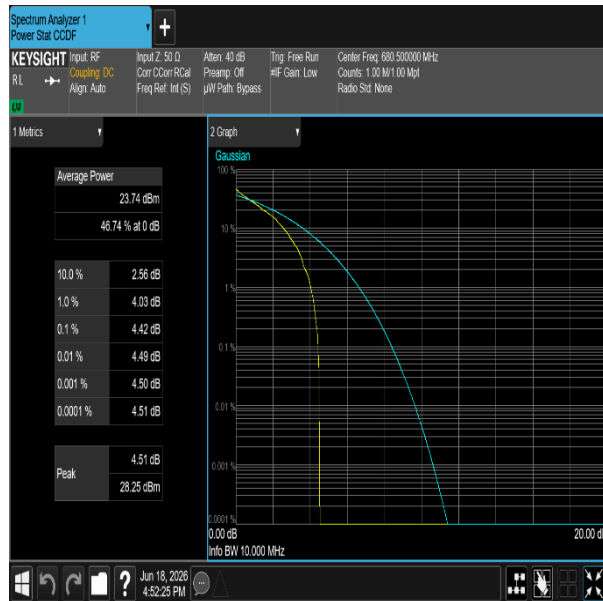
NTNV-n71-PC3-15-5-L-DFT-QPSK-Edge_1RB_Left-PASS



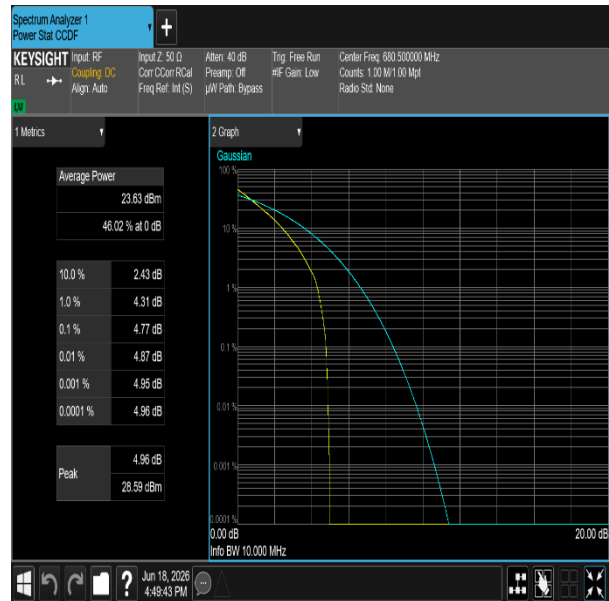
NTNV-n71-PC3-15-5-L-DFT-QPSK-Outer_Full-PASS



NTNV-n71-PC3-15-5-M-DFT-QPSK-Edge_1RB_Left-PASS

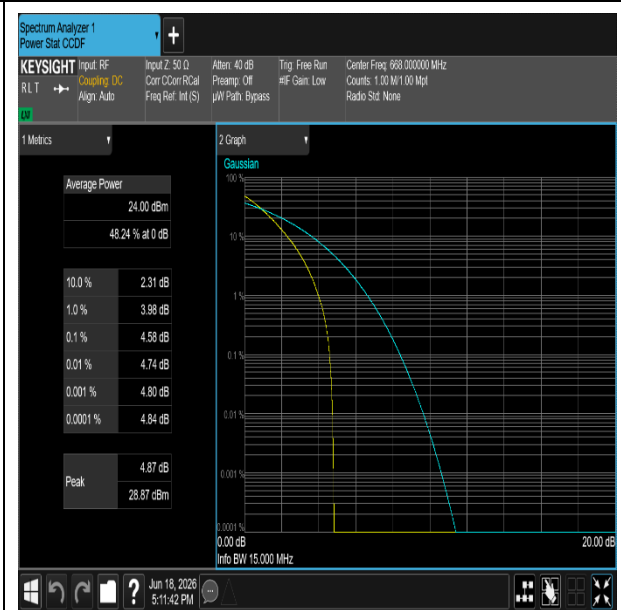
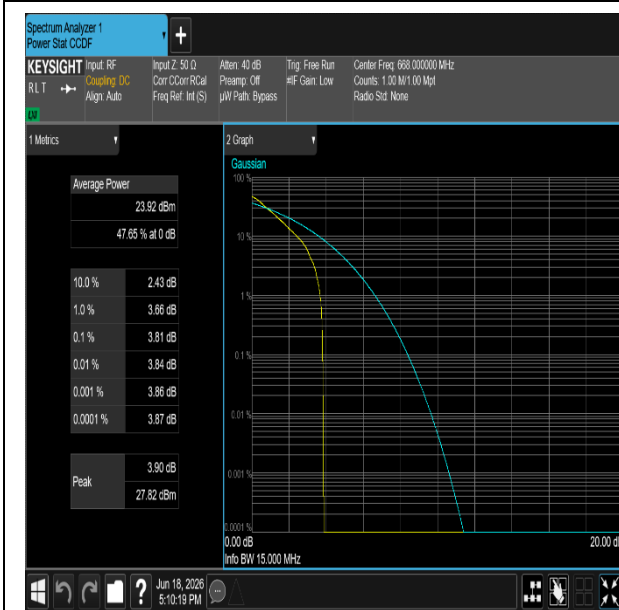
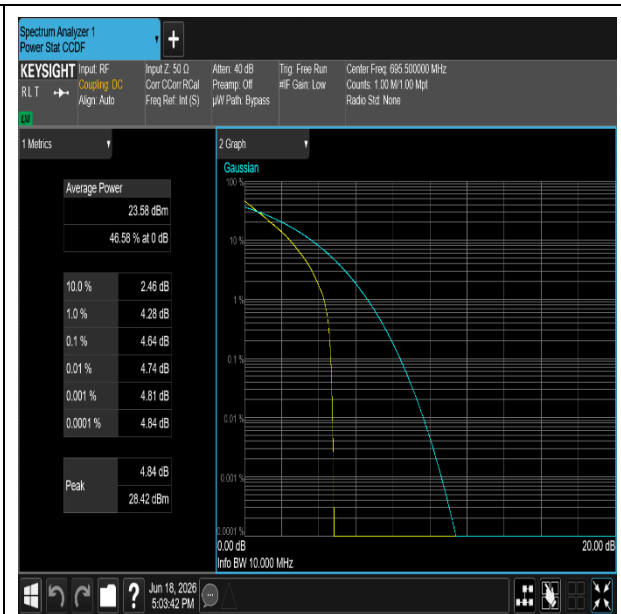
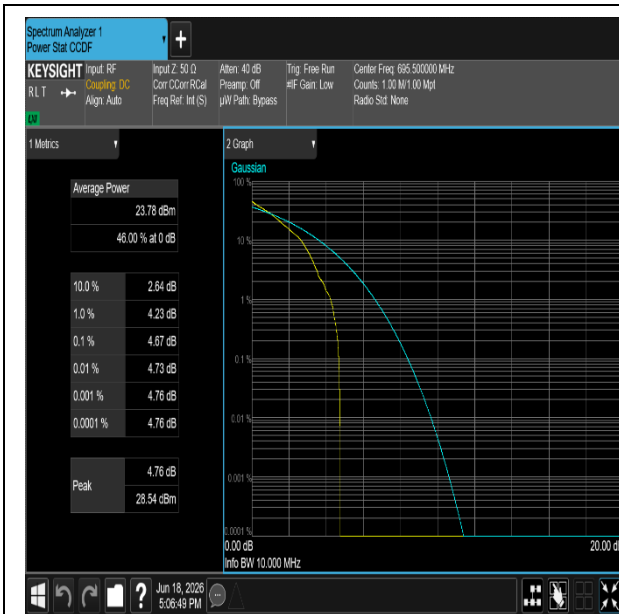


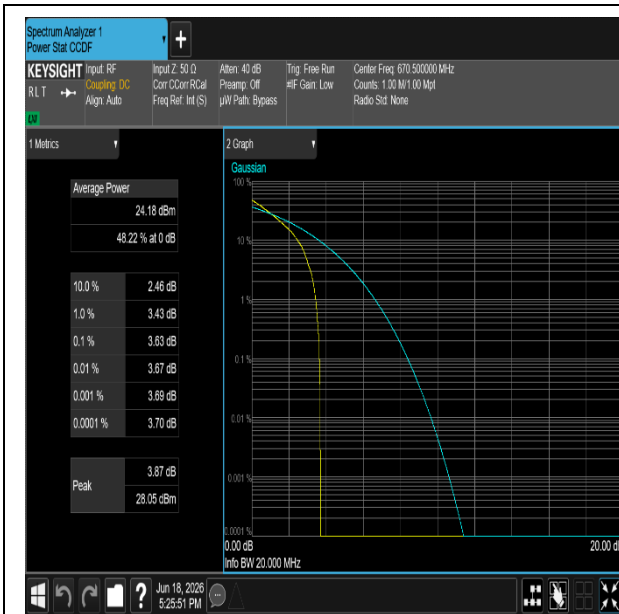
NTNV-n71-PC3-15-5-M-DFT-QPSK-Outer_Full-PASS



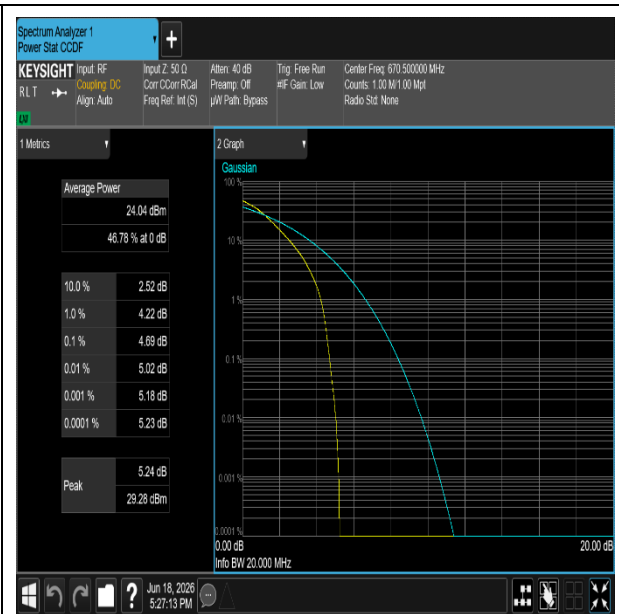
NTNV-n71-PC3-15-5-H-DFT-QPSK-Edge_1RB_Left-PASS

NTNV-n71-PC3-15-5-H-DFT-QPSK-Outer_Full-PASS

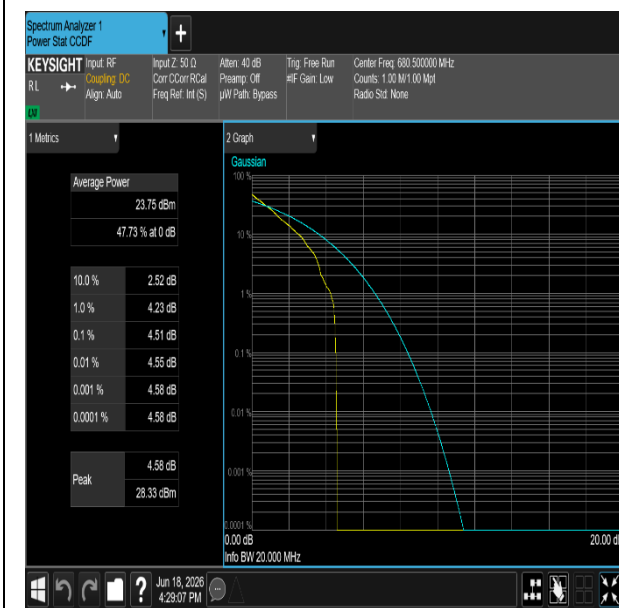




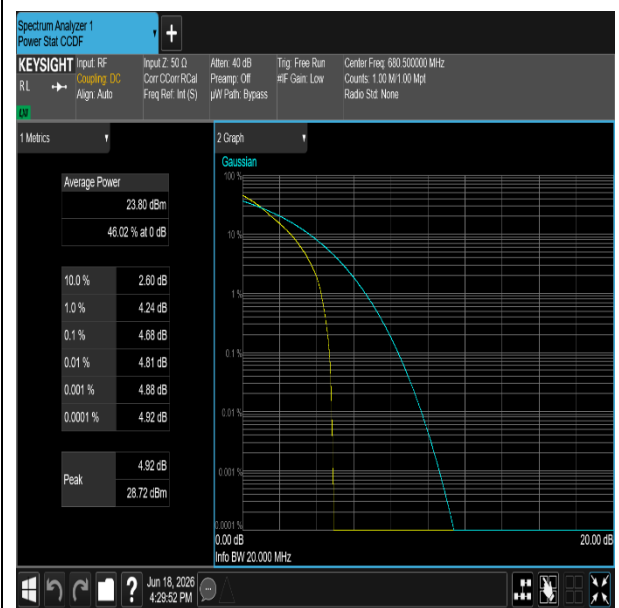
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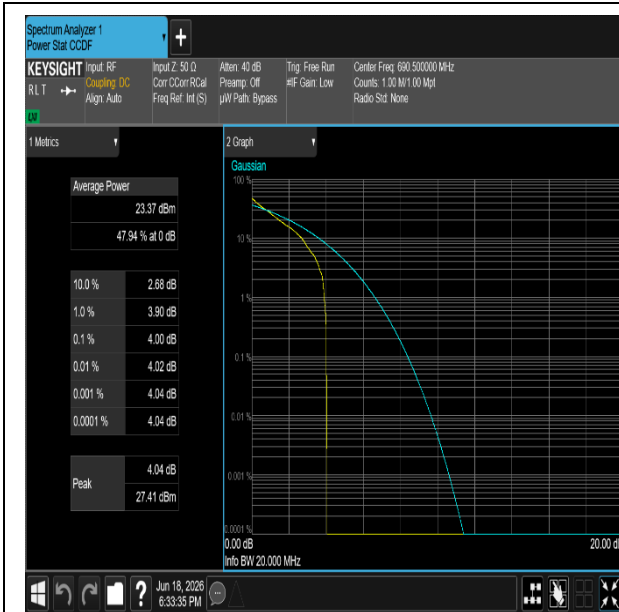
NTNV-n71-PC3-15-15-M-DFT-QPSK-Outer_Full-PASS



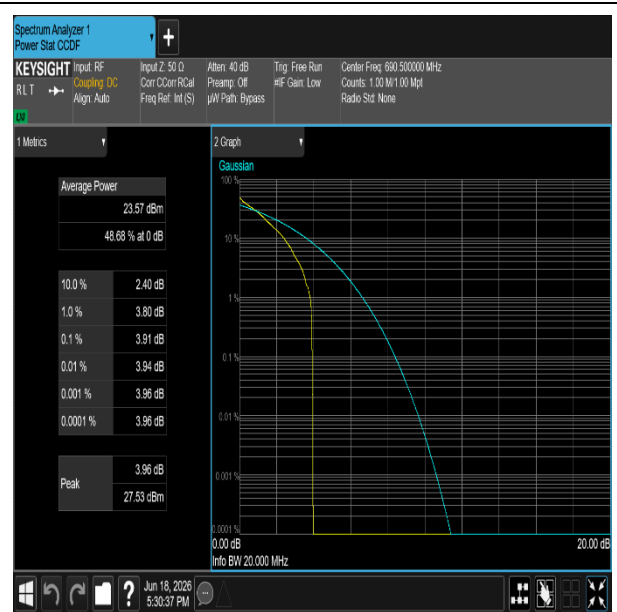
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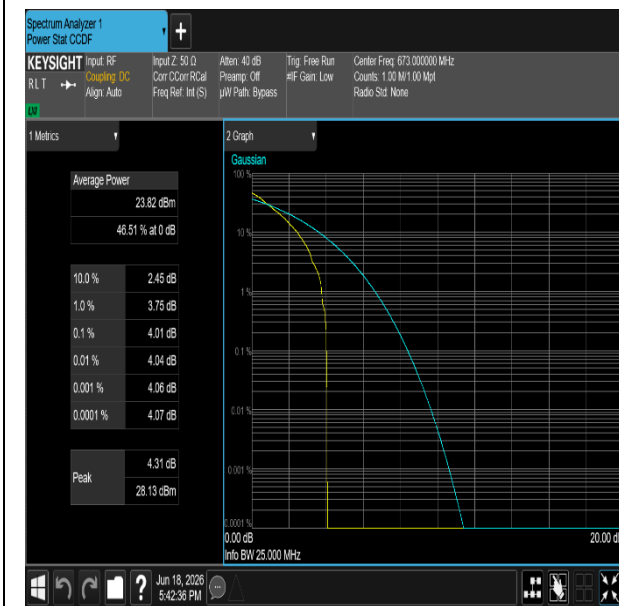
NTNV-n71-PC3-15-15-H-DFT-QPSK-Outer_Full-PASS



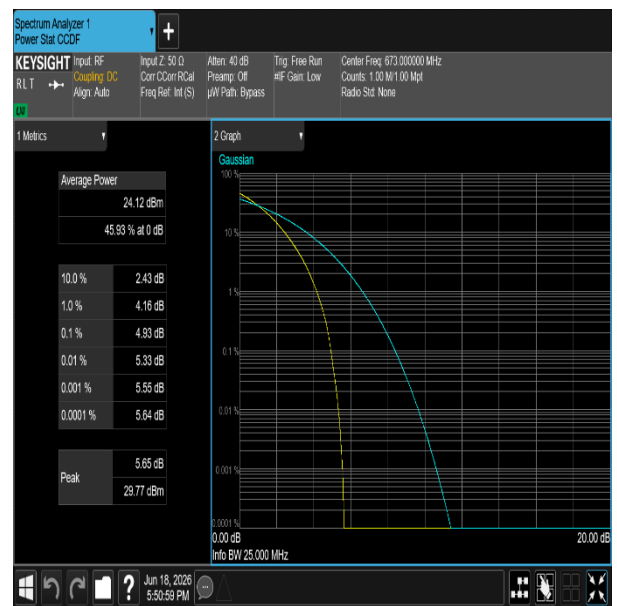
NTNV-n71-PC3-15-20-L-DFT-QPSK-Edge_1RB_Left-PASS



NTNV-n71-PC3-15-20-L-DFT-QPSK-Outer_Full-PASS



NTNV-n71-PC3-15-20-M-DFT-QPSK-Edge_1RB_Left-PASS



NTNV-n71-PC3-15-20-M-DFT-QPSK-Outer_Full-PASS