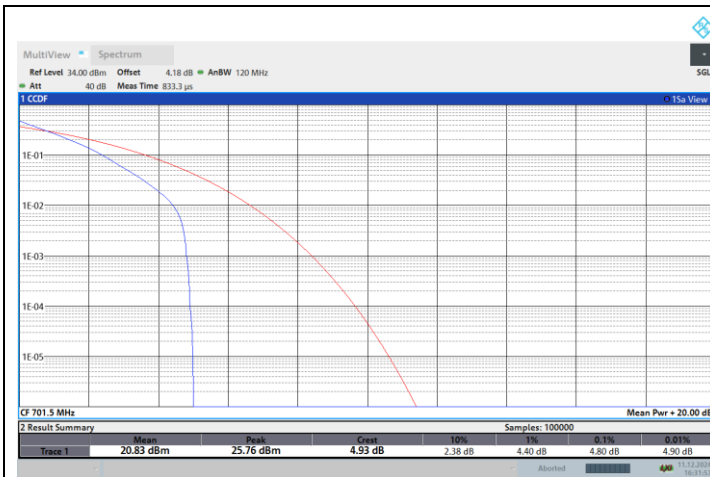
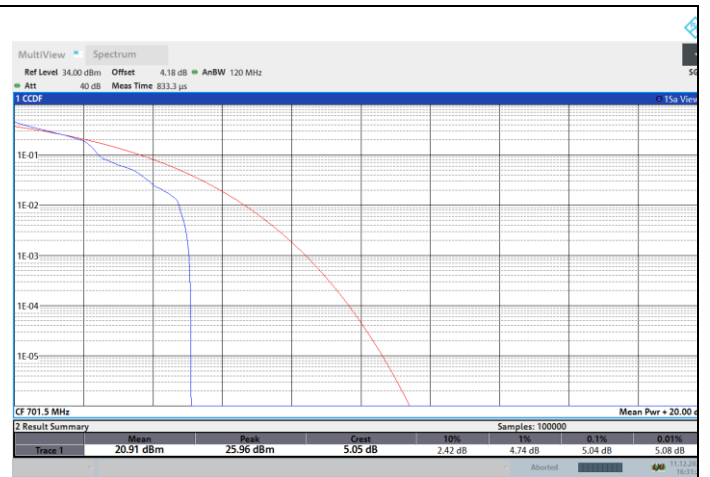
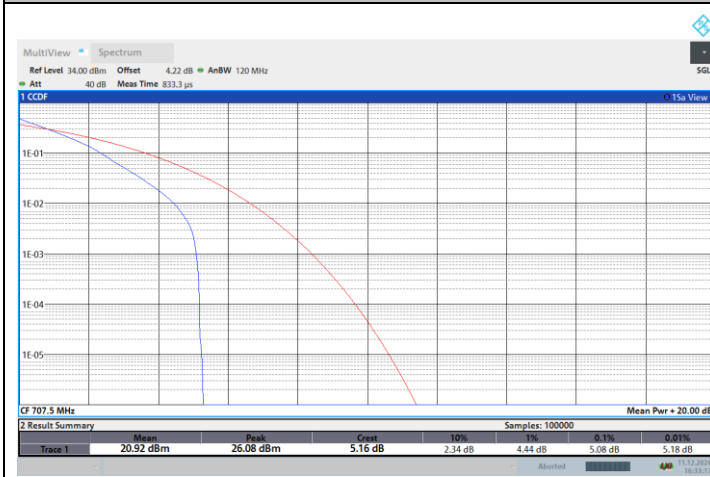




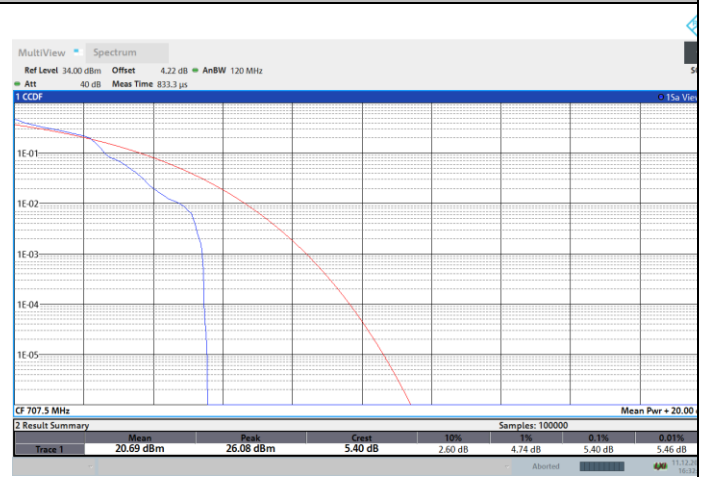
NTNV-N12-PC3-15-5-L-DFT-QPSK-Outer_Full-PASS



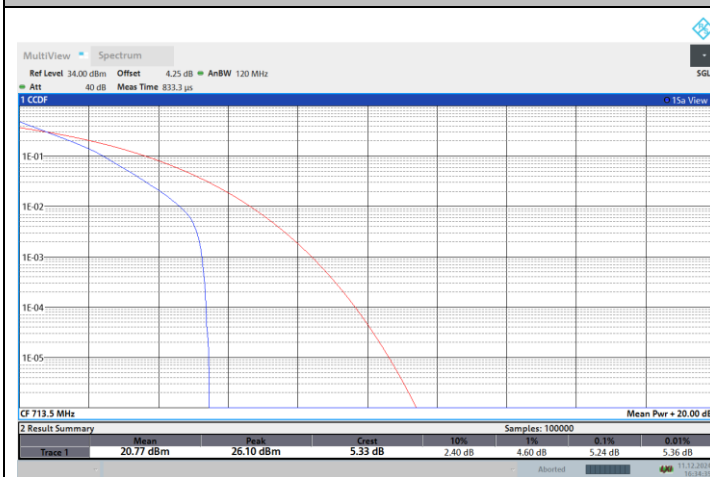
NTNV-N12-PC3-15-5-L-DFT-QPSK-Edge_1RB_Left-PASS



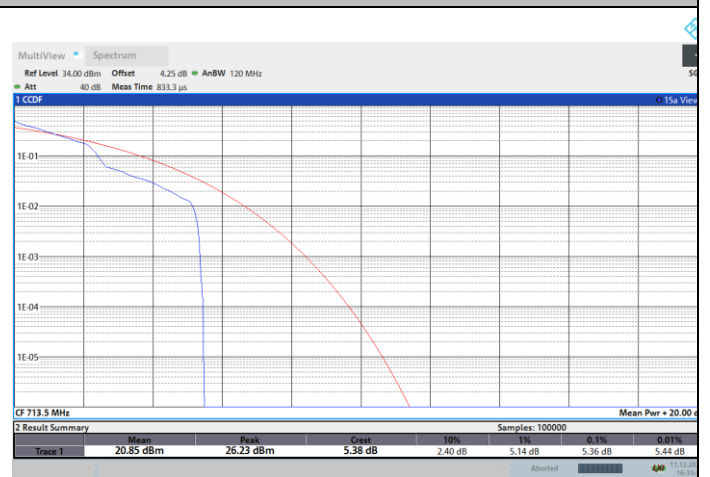
NTNV-N12-PC3-15-5-M-DFT-QPSK-Outer_Full-PASS



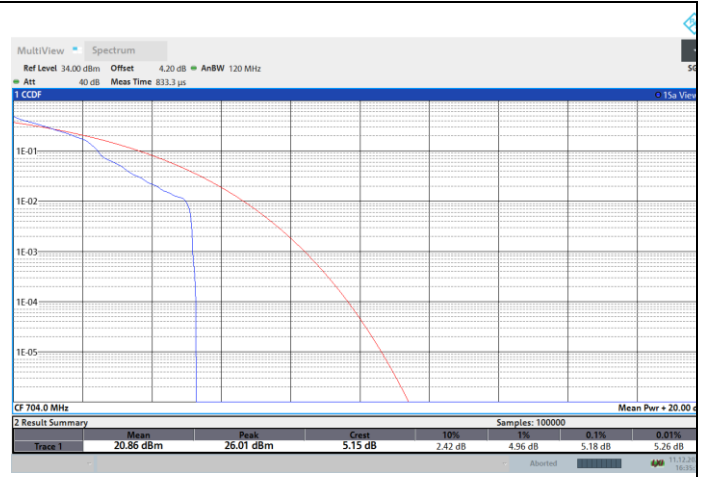
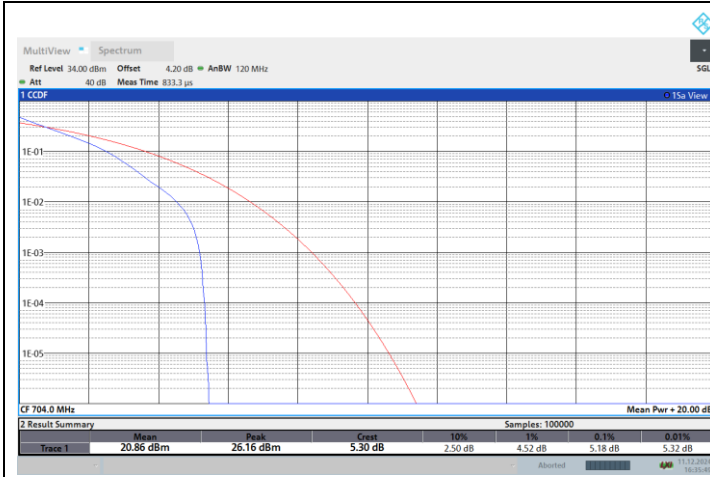
NTNV-N12-PC3-15-5-M-DFT-QPSK-Edge_1RB_Left-PASS



NTNV-N12-PC3-15-5-H-DFT-QPSK-Outer_Full-PASS

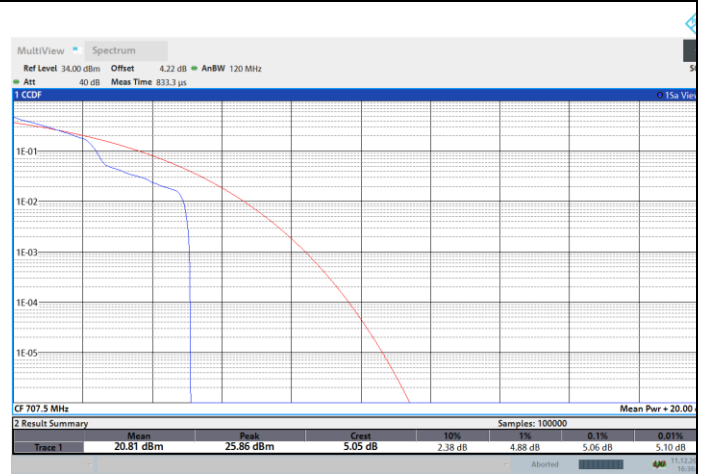
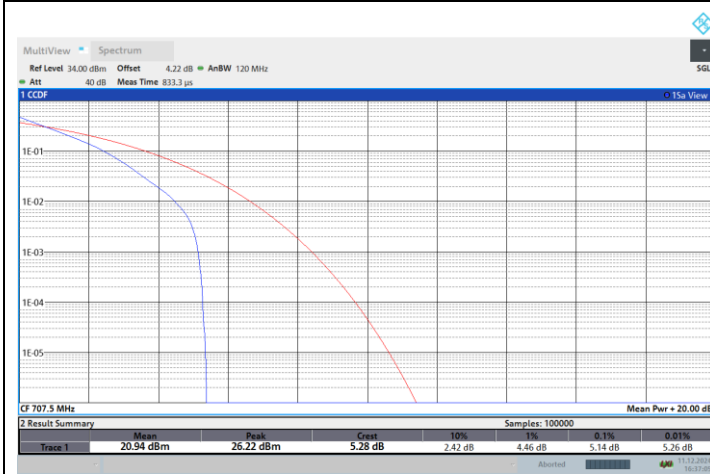


NTNV-N12-PC3-15-5-H-DFT-QPSK-Edge_1RB_Left-PASS



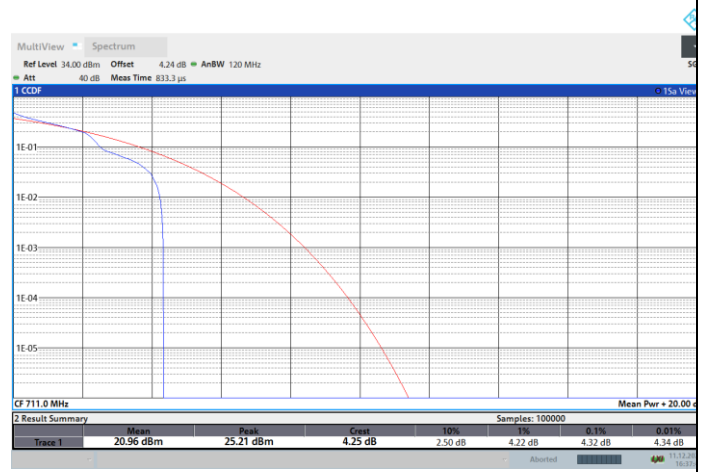
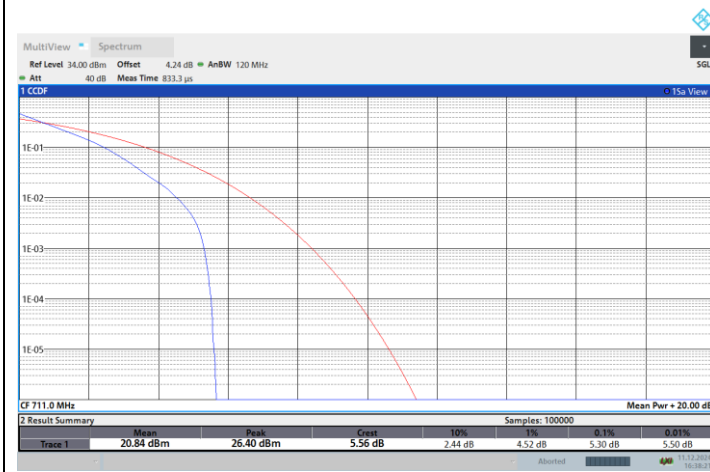
NTNV-N12-PC3-15-10-L-DFT-QPSK-Outer_Full-PASS

NTNV-N12-PC3-15-10-L-DFT-QPSK-Edge_1RB_Left-PASS



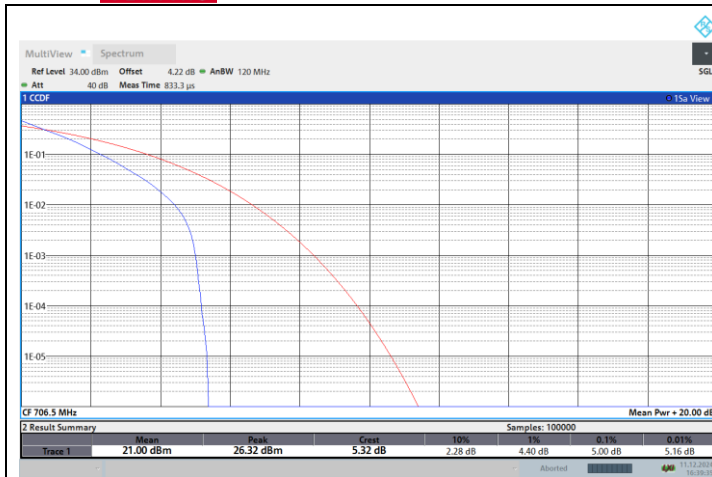
NTNV-N12-PC3-15-10-M-DFT-QPSK-Outer_Full-PASS

NTNV-N12-PC3-15-10-M-DFT-QPSK-Edge_1RB_Left-PASS

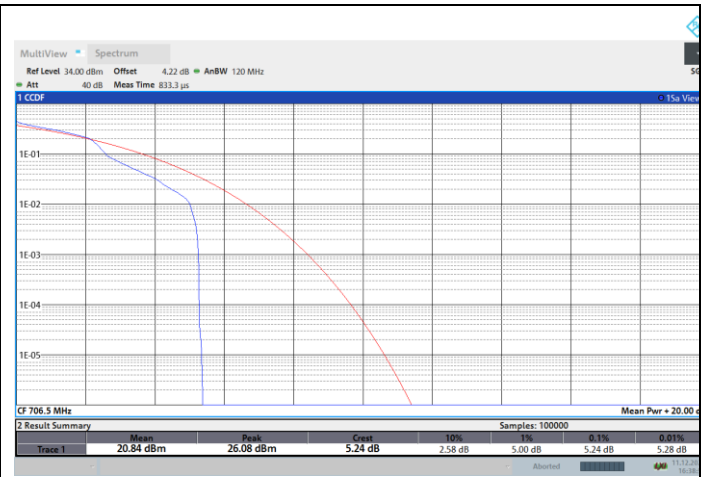


NTNV-N12-PC3-15-10-H-DFT-QPSK-Outer_Full-PASS

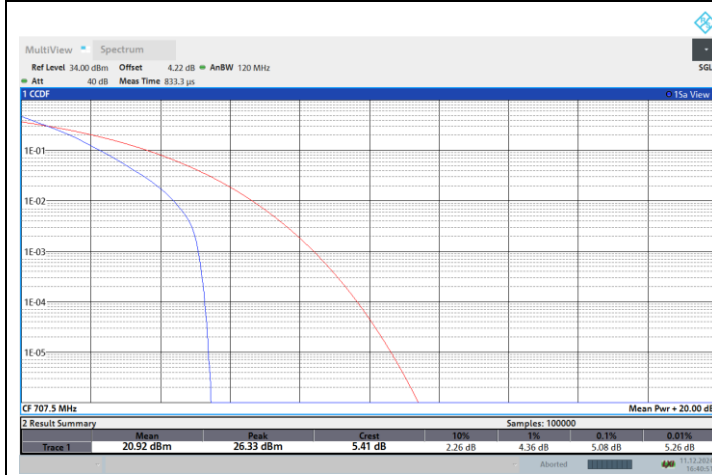
NTNV-N12-PC3-15-10-H-DFT-QPSK-Edge_1RB_Left-PASS



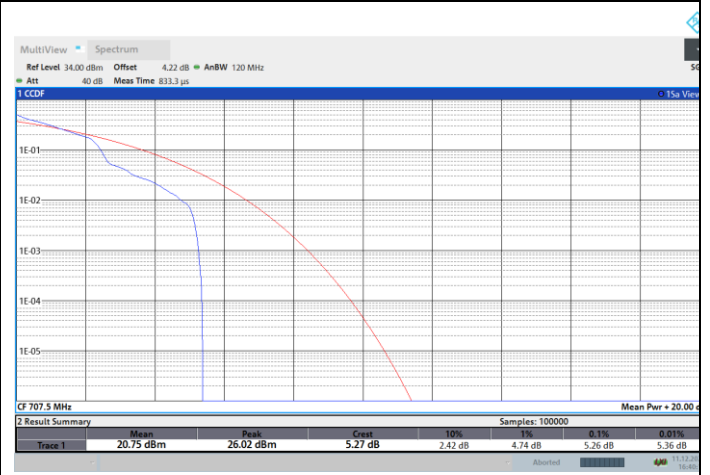
NTNV-N12-PC3-15-15-L-DFT-QPSK-Outer_Full-PASS



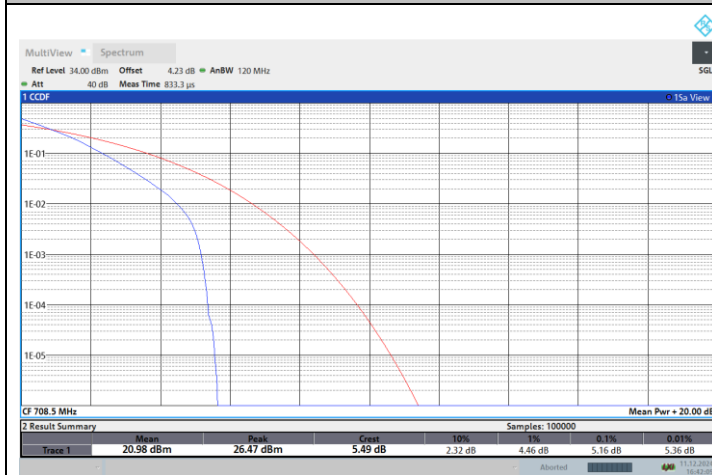
NTNV-N12-PC3-15-15-L-DFT-QPSK-Edge_1RB_Left-PASS



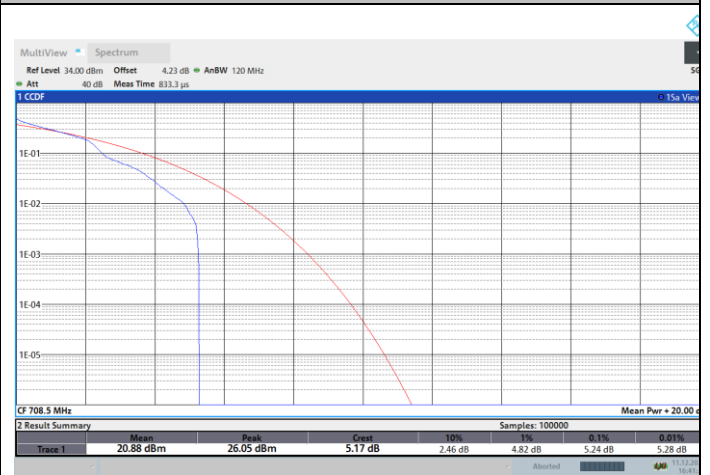
NTNV-N12-PC3-15-15-M-DFT-QPSK-Outer_Full-PASS



NTNV-N12-PC3-15-15-M-DFT-QPSK-Edge_1RB_Left-PASS



NTNV-N12-PC3-15-15-H-DFT-QPSK-Outer_Full-PASS



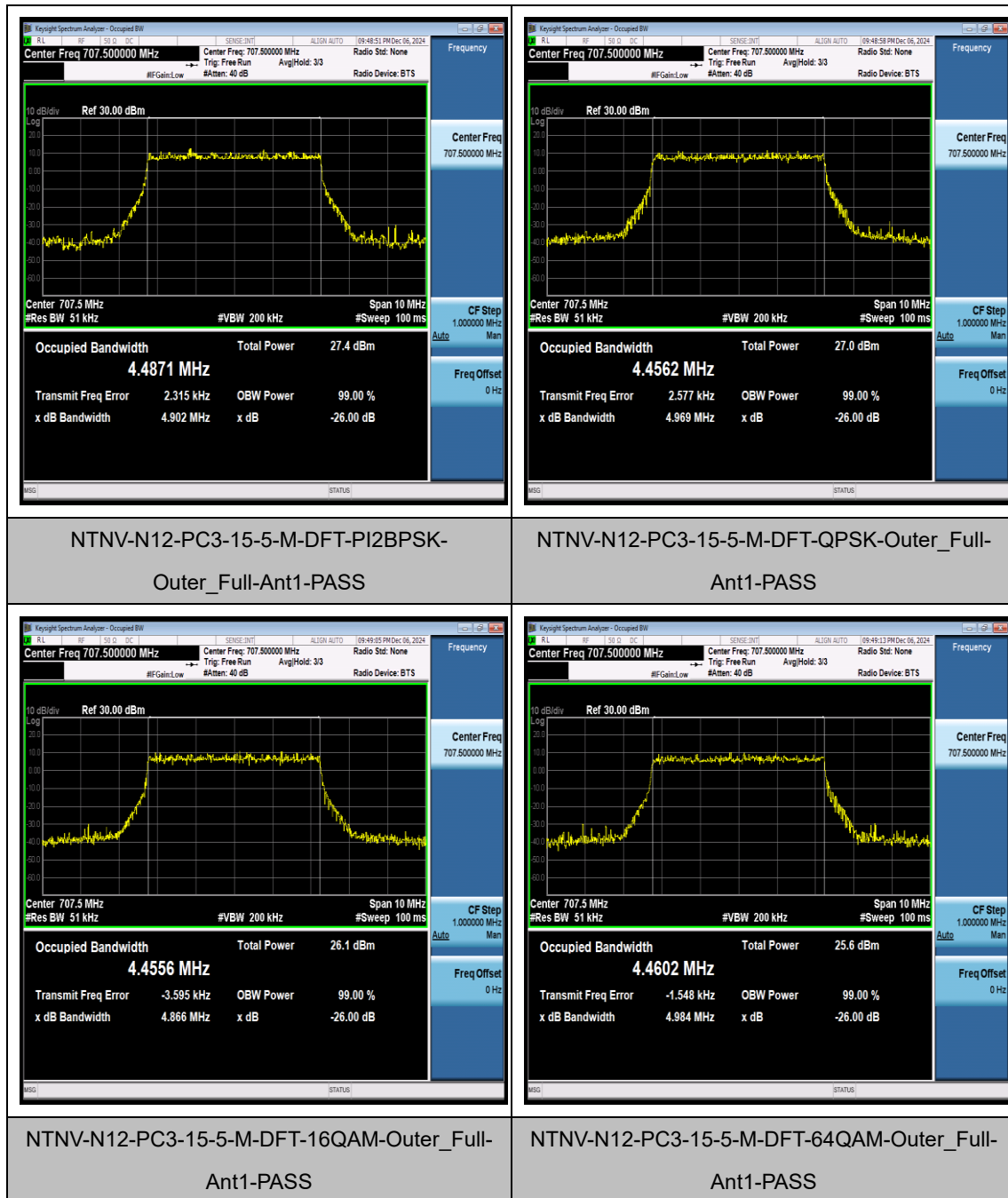
NTNV-N12-PC3-15-15-H-DFT-QPSK-Edge_1RB_Left-PASS

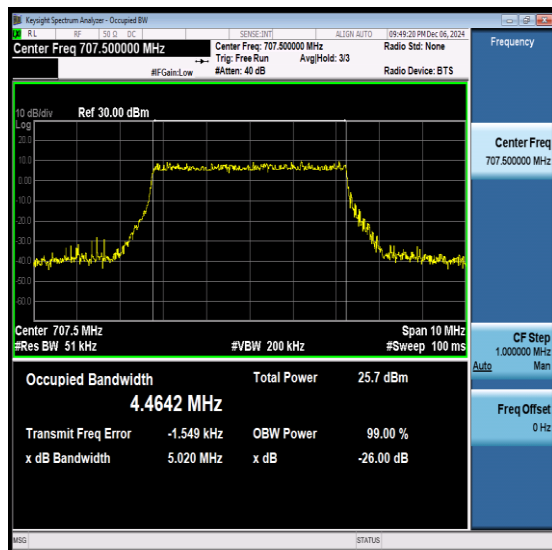
**26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR SA****TEST RESULT**

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N12	15	5	DFT-PI2BPSK	M	Outer_Full	4.4871	4.902	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	4.4562	4.969	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	4.4556	4.866	PASS
N12	15	5	DFT-64QAM	M	Outer_Full	4.4602	4.984	PASS
N12	15	5	DFT-256QAM	M	Outer_Full	4.4642	5.020	PASS
N12	15	10	DFT-PI2BPSK	M	Outer_Full	8.9084	9.567	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	8.8983	9.618	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	8.8996	9.549	PASS
N12	15	10	DFT-64QAM	M	Outer_Full	8.8967	9.548	PASS
N12	15	10	DFT-256QAM	M	Outer_Full	8.8920	9.405	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	13.386	14.32	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	13.382	14.30	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	13.385	14.25	PASS
N12	15	15	DFT-64QAM	M	Outer_Full	13.378	14.25	PASS
N12	15	15	DFT-256QAM	M	Outer_Full	13.392	14.14	PASS

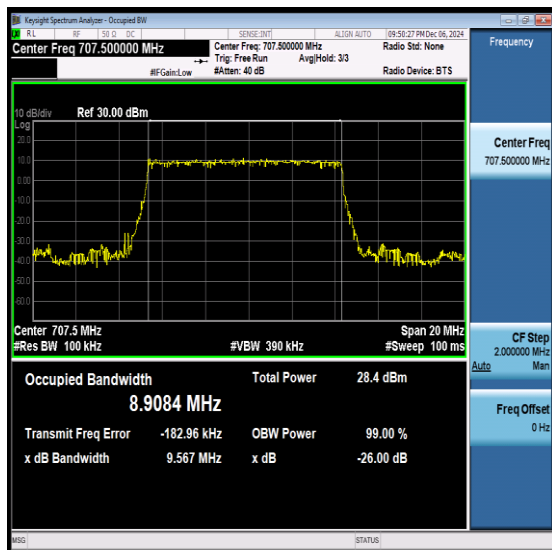


TEST GRAPHS

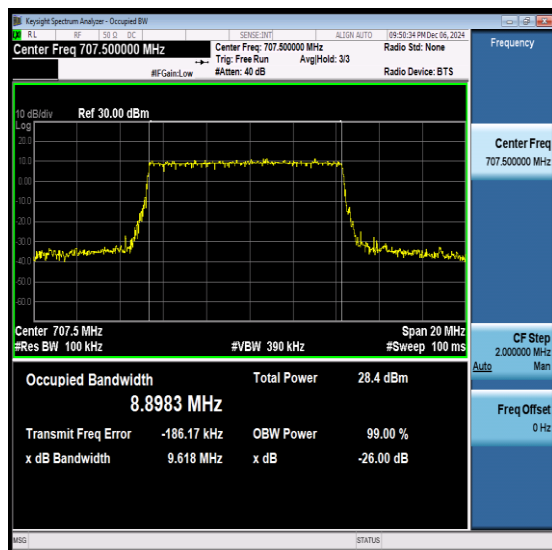




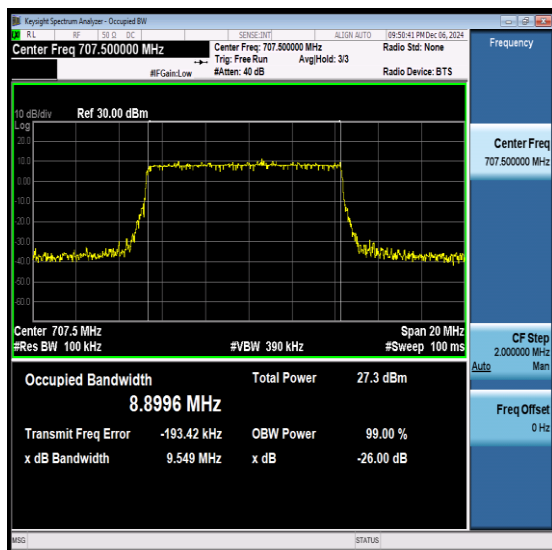
NTNV-N12-PC3-15-5-M-DFT-256QAM-Outer_Full-Ant1-PASS



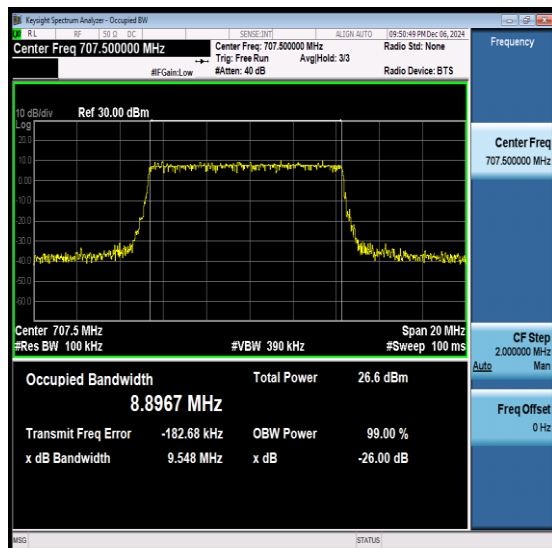
NTNV-N12-PC3-15-10-M-DFT-PI2BPSK-Outer_Full-Ant1-PASS



NTNV-N12-PC3-15-10-M-DFT-QPSK-Outer_Full-Ant1-PASS



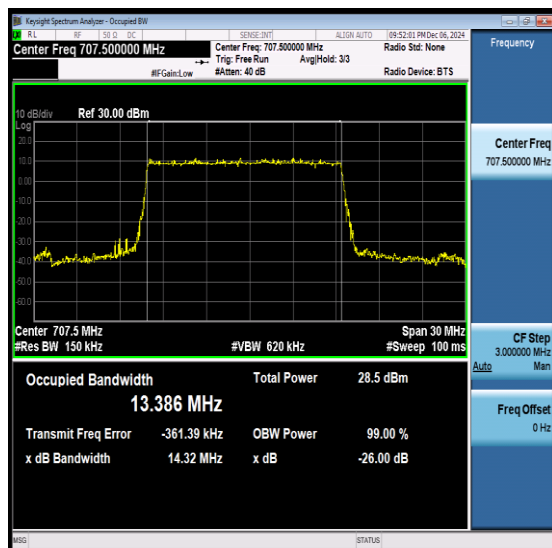
NTNV-N12-PC3-15-10-M-DFT-16QAM-Outer_Full-Ant1-PASS



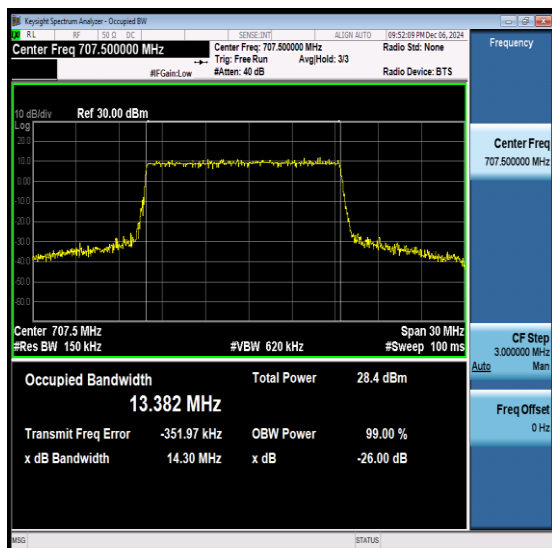
NTNV-N12-PC3-15-10-M-DFT-64QAM-Outer_Full-Ant1-PASS



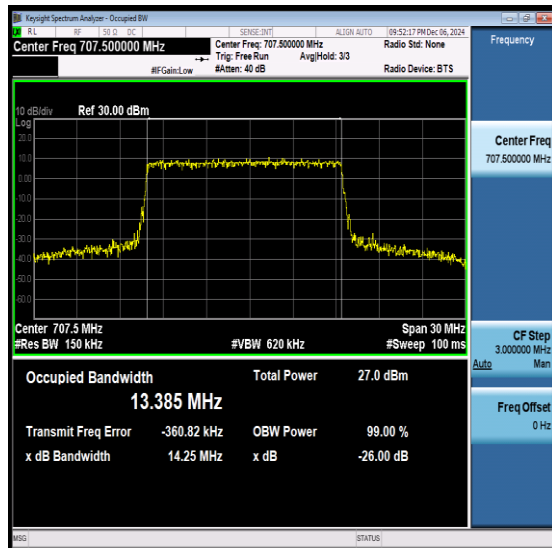
NTNV-N12-PC3-15-10-M-DFT-256QAM-Outer_Full-Ant1-PASS



NTNV-N12-PC3-15-15-M-DFT-PI2BPSK-Outer_Full-Ant1-PASS



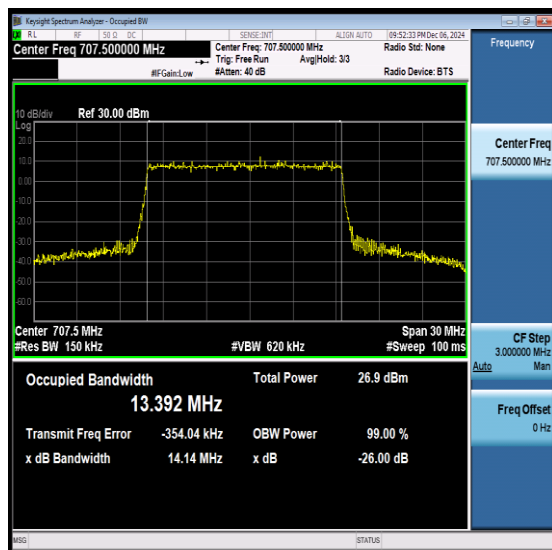
NTNV-N12-PC3-15-15-M-DFT-QPSK-Outer_Full-Ant1-PASS



NTNV-N12-PC3-15-15-M-DFT-16QAM-Outer_Full-
Ant1-PASS



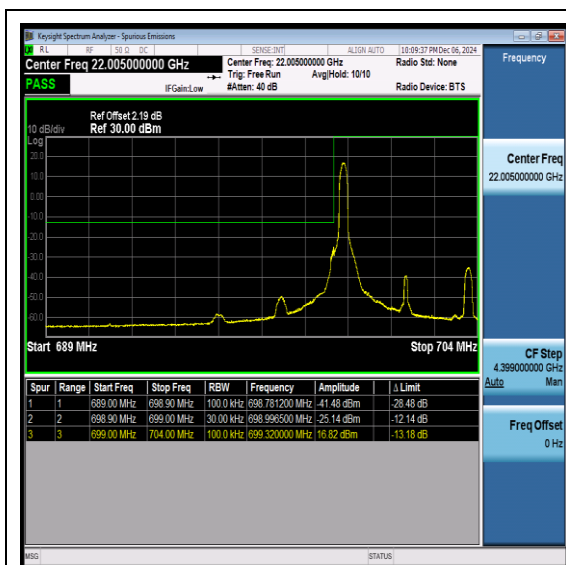
NTNV-N12-PC3-15-15-M-DFT-64QAM-Outer_Full-
Ant1-PASS



NTNV-N12-PC3-15-15-M-DFT-256QAM-
Outer_Full-Ant1-PASS

**BAND EDGE FOR SA****TEST RESULT**

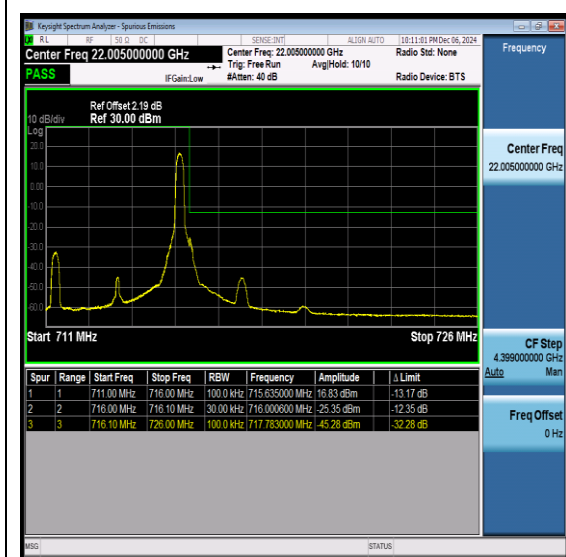
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N12	15	5	DFT-QPSK	L	Edge_1RB_Left	-25.14	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	-33.64	PASS
N12	15	5	DFT-QPSK	H	Edge_1RB_Right	-25.35	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	-32.62	PASS
N12	15	10	DFT-QPSK	L	Edge_1RB_Left	-27.20	PASS
N12	15	10	DFT-QPSK	L	Outer_Full	-38.69	PASS
N12	15	10	DFT-QPSK	H	Edge_1RB_Right	-27.52	PASS
N12	15	10	DFT-QPSK	H	Outer_Full	-41.84	PASS
N12	15	15	DFT-QPSK	L	Edge_1RB_Left	-30.84	PASS
N12	15	15	DFT-QPSK	L	Outer_Full	-39.43	PASS
N12	15	15	DFT-QPSK	H	Edge_1RB_Right	-31.12	PASS
N12	15	15	DFT-QPSK	H	Outer_Full	-42.26	PASS



NTNV-N12-PC3-15-5-L-DFT-QPSK-
Edge_1RB_Left-Ant1-PASS



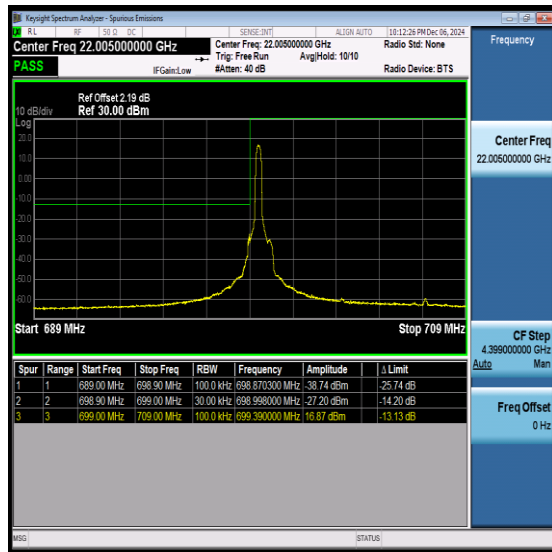
NTNV-N12-PC3-15-5-L-DFT-QPSK-Outer_Full-
Ant1-PASS



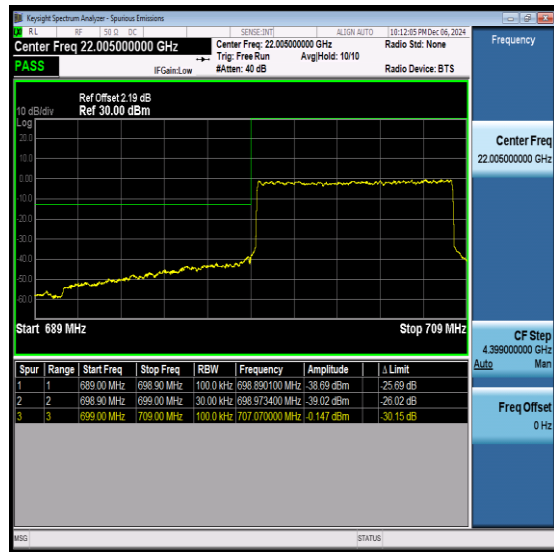
NTNV-N12-PC3-15-5-H-DFT-QPSK-
Edge_1RB_Right-Ant1-PASS



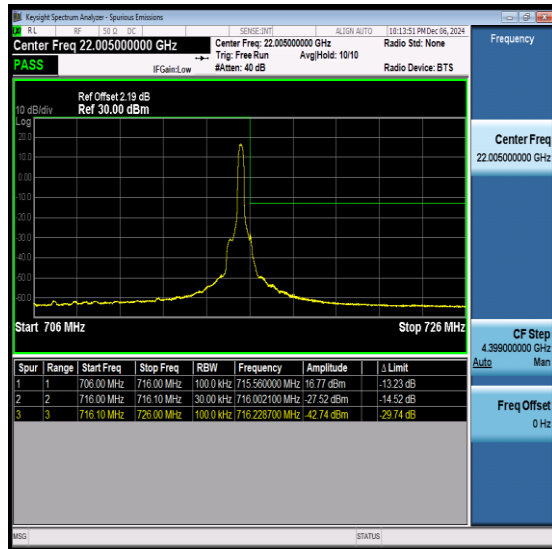
NTNV-N12-PC3-15-5-H-DFT-QPSK-Outer_Full-
Ant1-PASS



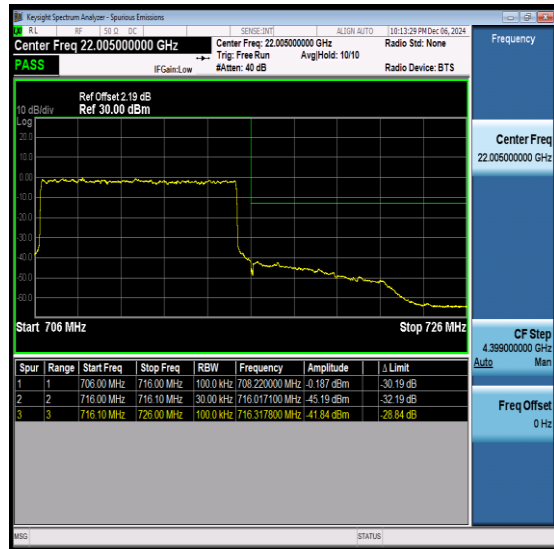
NTNV-N12-PC3-15-10-L-DFT-QPSK-
Edge_1RB_Left-Ant1-PASS



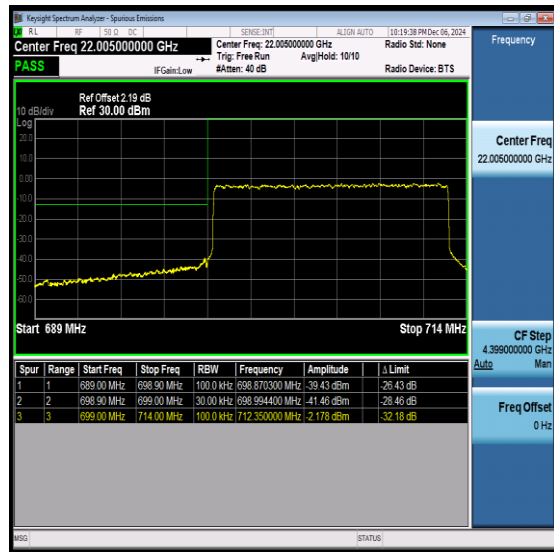
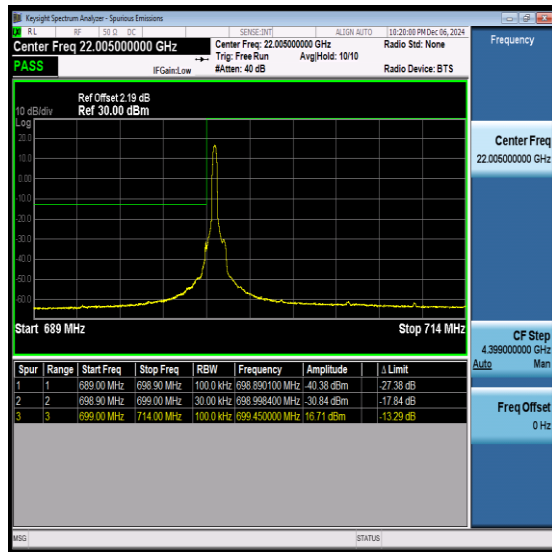
NTNV-N12-PC3-15-10-L-DFT-QPSK-Outer_Full-
Ant1-PASS



NTNV-N12-PC3-15-10-H-DFT-QPSK-
Edge_1RB_Right-Ant1-PASS

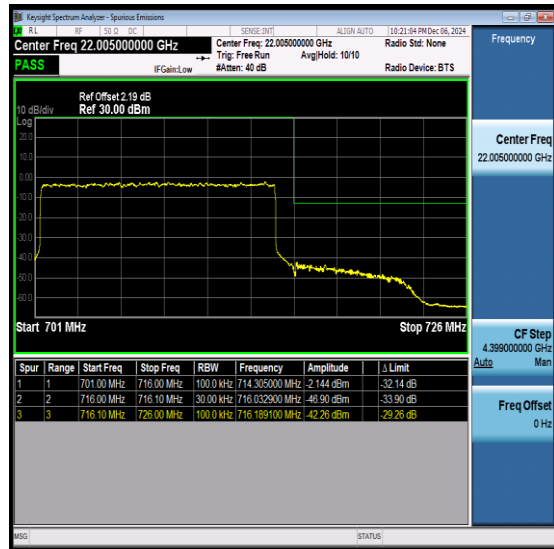
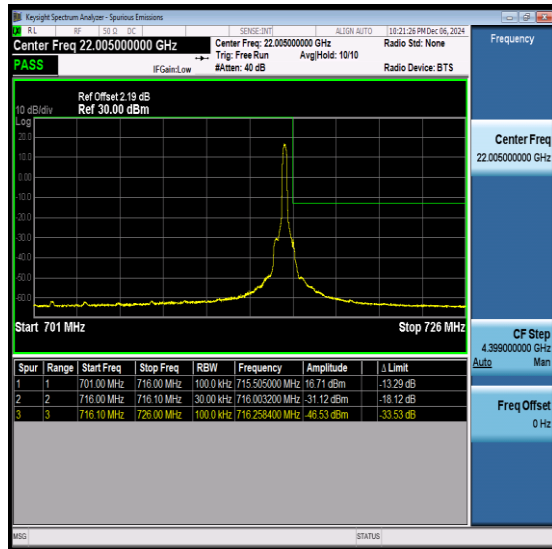


NTNV-N12-PC3-15-10-H-DFT-QPSK-Outer_Full-
Ant1-PASS



NTNV-N12-PC3-15-15-L-DFT-QPSK-
Edge_1RB_Left-Ant1-PASS

NTNV-N12-PC3-15-15-L-DFT-QPSK-Outer_Full-
Ant1-PASS



NTNV-N12-PC3-15-15-H-DFT-QPSK-
Edge_1RB_Right-Ant1-PASS

NTNV-N12-PC3-15-15-H-DFT-QPSK-Outer_Full-
Ant1-PASS

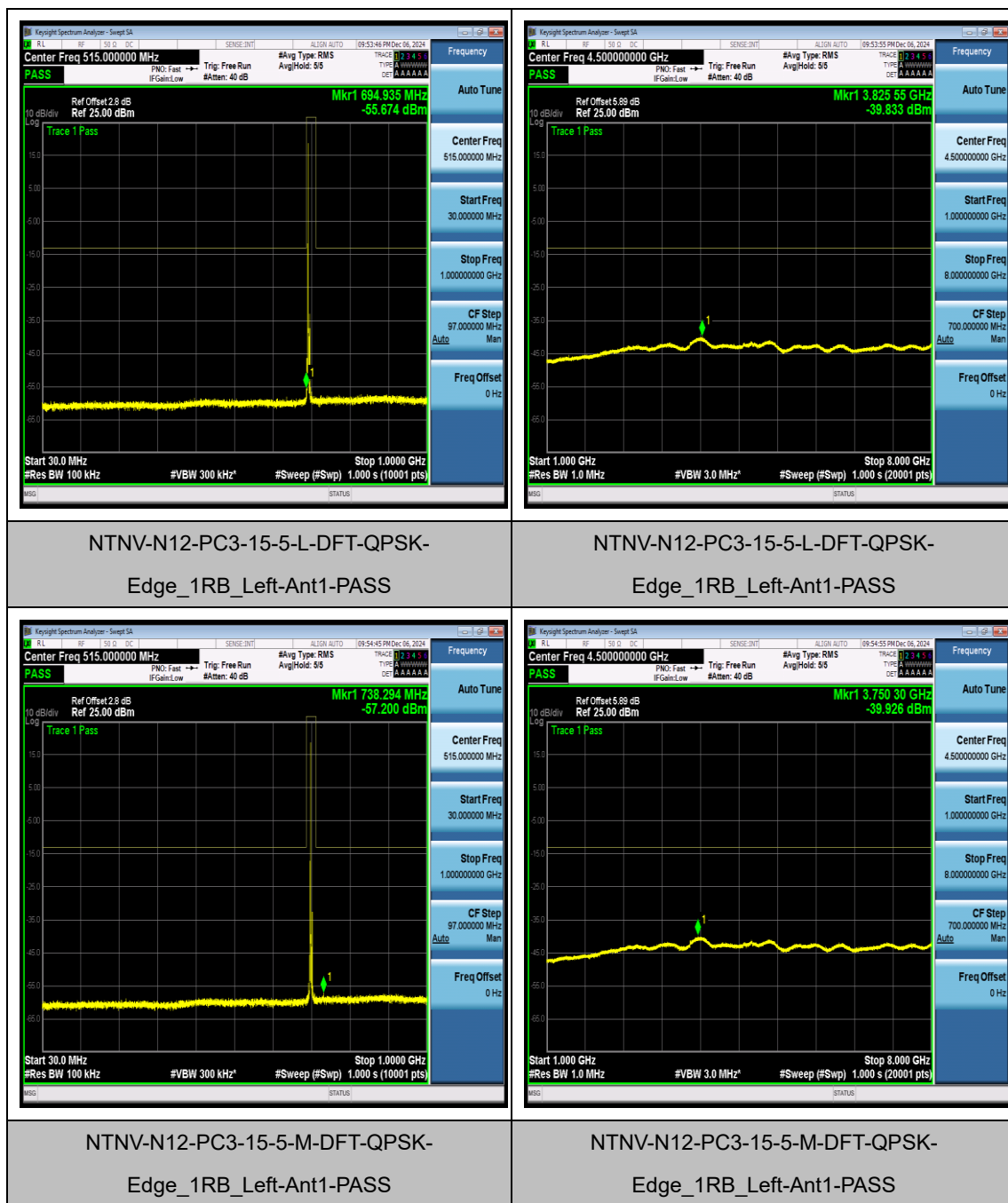


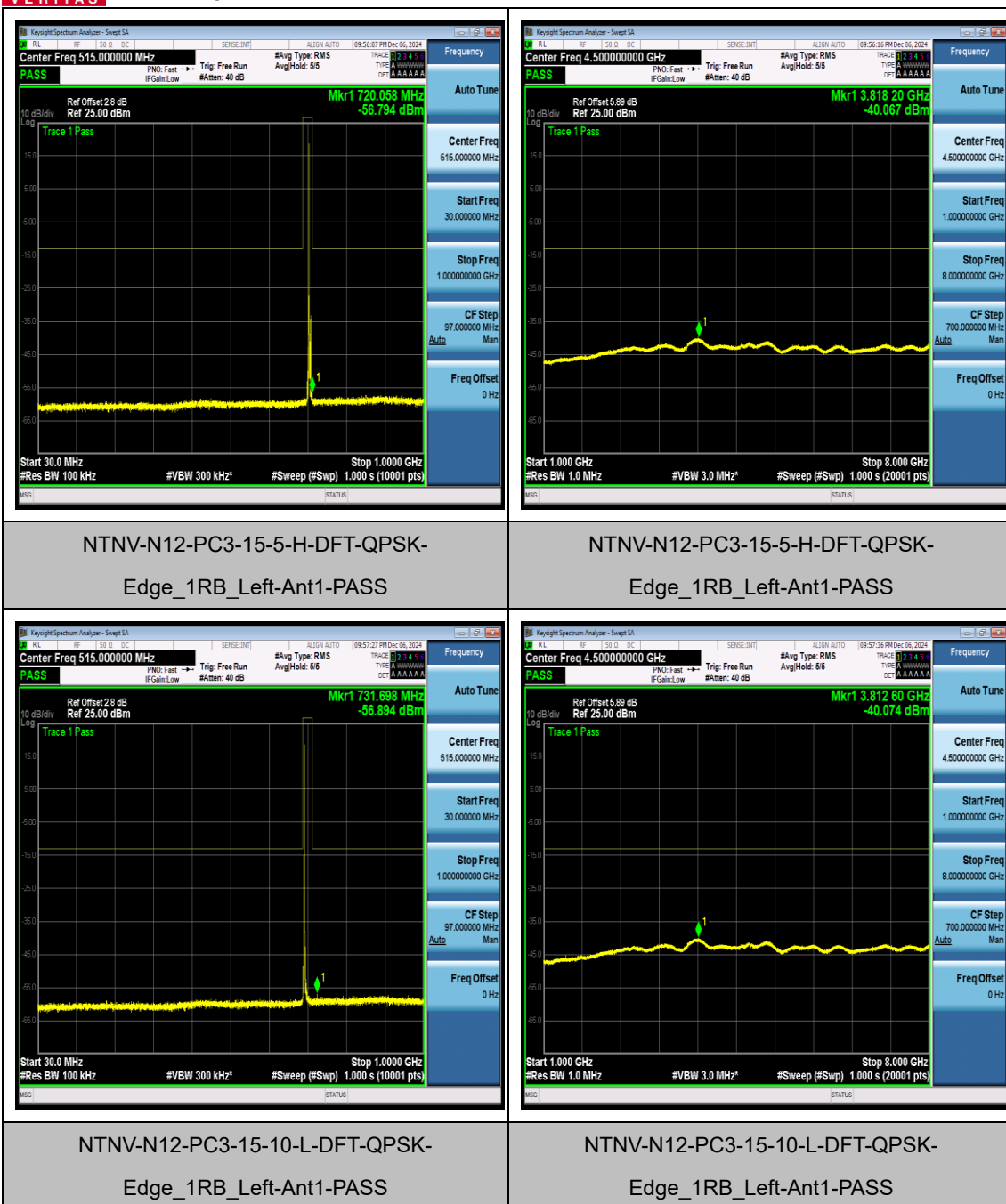
Test Report No.: PSU-QSU2411180418

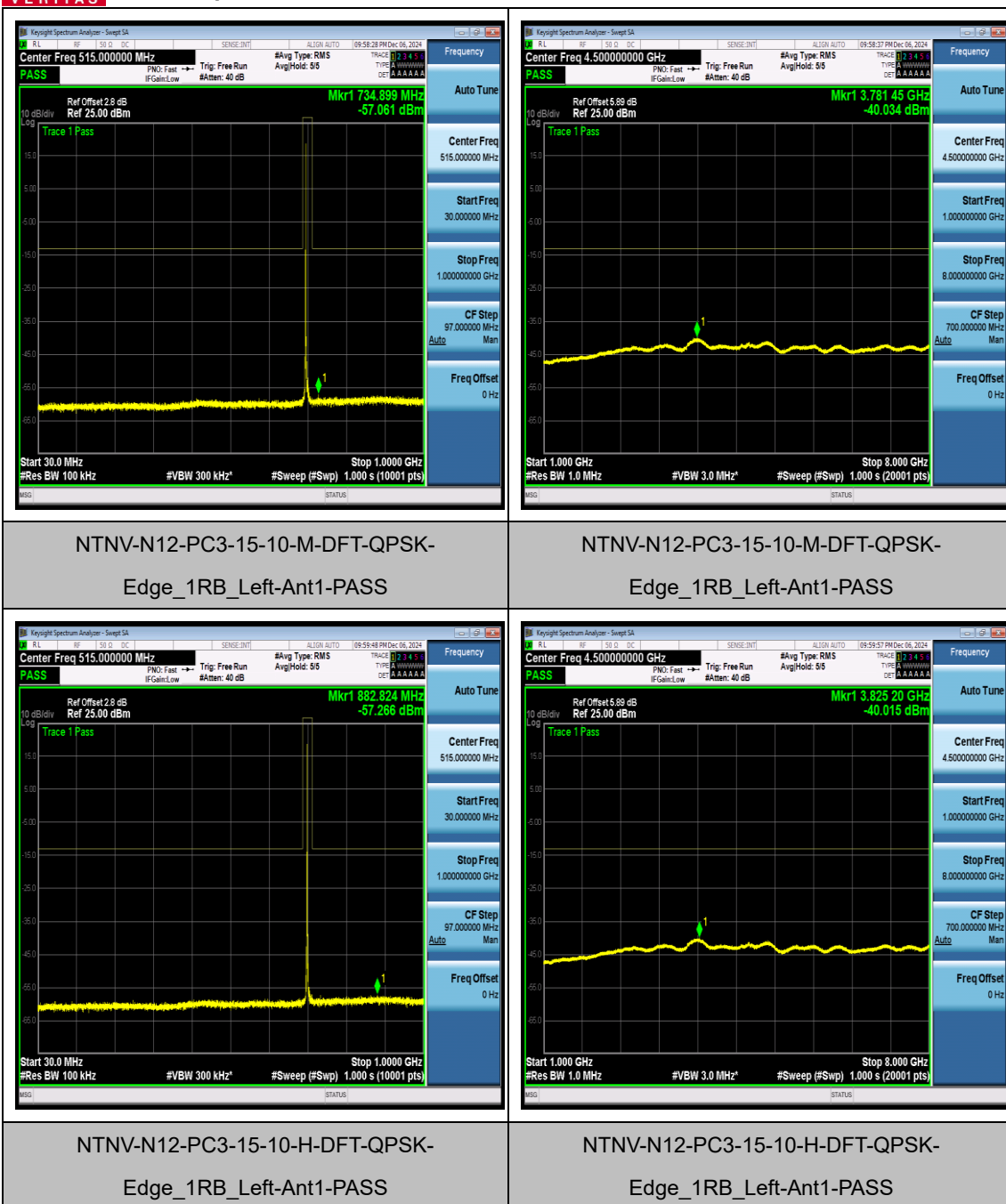
CONDUCTED SPURIOUS EMISSION FOR SA

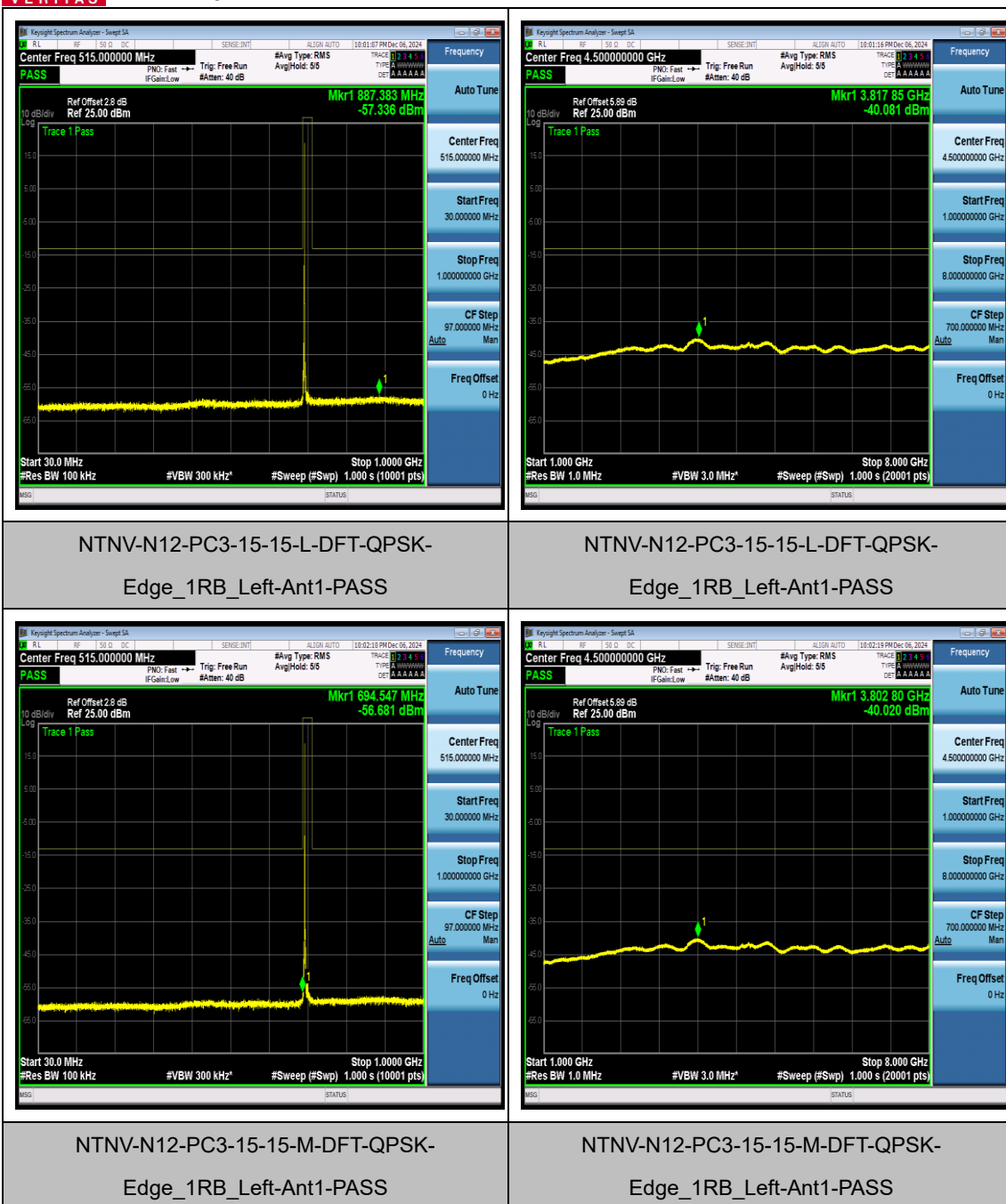
TEST RESULT

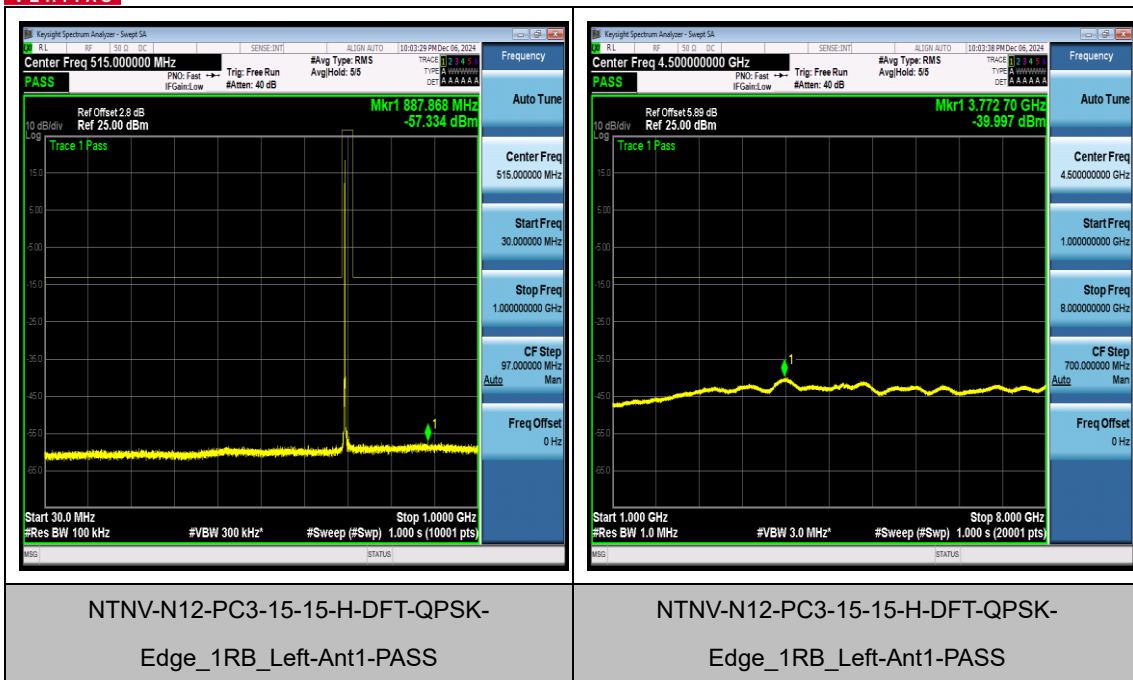
Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N12	15	5	DFT-QPSK	L	Edge_1RB_Left	30	1000	-55.67	-13	PASS
N12	15	5	DFT-QPSK	L	Edge_1RB_Left	1000	8000	-39.83	-13	PASS
N12	15	5	DFT-QPSK	M	Edge_1RB_Left	30	1000	-57.20	-13	PASS
N12	15	5	DFT-QPSK	M	Edge_1RB_Left	1000	8000	-39.93	-13	PASS
N12	15	5	DFT-QPSK	H	Edge_1RB_Left	30	1000	-56.79	-13	PASS
N12	15	5	DFT-QPSK	H	Edge_1RB_Left	1000	8000	-40.07	-13	PASS
N12	15	10	DFT-QPSK	L	Edge_1RB_Left	30	1000	-56.89	-13	PASS
N12	15	10	DFT-QPSK	L	Edge_1RB_Left	1000	8000	-40.07	-13	PASS
N12	15	10	DFT-QPSK	M	Edge_1RB_Left	30	1000	-57.06	-13	PASS
N12	15	10	DFT-QPSK	M	Edge_1RB_Left	1000	8000	-40.03	-13	PASS
N12	15	10	DFT-QPSK	H	Edge_1RB_Left	30	1000	-57.27	-13	PASS
N12	15	10	DFT-QPSK	H	Edge_1RB_Left	1000	8000	-40.02	-13	PASS
N12	15	15	DFT-QPSK	L	Edge_1RB_Left	30	1000	-57.34	-13	PASS
N12	15	15	DFT-QPSK	L	Edge_1RB_Left	1000	8000	-40.08	-13	PASS
N12	15	15	DFT-QPSK	M	Edge_1RB_Left	30	1000	-56.68	-13	PASS
N12	15	15	DFT-QPSK	M	Edge_1RB_Left	1000	8000	-40.02	-13	PASS
N12	15	15	DFT-QPSK	H	Edge_1RB_Left	30	1000	-57.33	-13	PASS
N12	15	15	DFT-QPSK	H	Edge_1RB_Left	1000	8000	-40.00	-13	PASS













FREQUENCY STABILITY FOR SA

TEST RESULT

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N12	15	5	DFT-QPSK	L	Outer_Full	VL	NT	-0.827000	-0.001179	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	VN	NT	0.702000	0.001000	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	VH	NT	-0.026000	-0.000037	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	VL	NT	1.581000	0.002235	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	VN	NT	0.830000	0.001173	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	VH	NT	-0.013000	-0.000018	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	VL	NT	-0.705000	-0.000988	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	VN	NT	-0.532000	-0.000746	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	VH	NT	-1.180000	-0.001654	PASS

**Frequency Error VS. Temperature**

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N12	15	5	DFT-QPSK	L	Outer_Full	NV	-30	-0.510000	-0.000727	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	NV	-20	-1.443000	-0.002057	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	NV	-10	-1.118000	-0.001594	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	NV	0	-0.436000	-0.000622	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	NV	10	-0.982000	-0.001400	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	NV	20	0.645000	0.000919	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	NV	30	-0.362000	-0.000516	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	NV	40	-2.720000	-0.003877	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	NV	50	-0.681000	-0.000971	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	NV	-30	0.534000	0.000755	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	NV	-20	1.634000	0.002310	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	NV	-10	1.520000	0.002148	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	NV	0	0.987000	0.001395	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	NV	10	1.287000	0.001819	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	NV	20	1.327000	0.001876	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	NV	30	-0.675000	-0.000954	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	NV	40	1.279000	0.001808	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	NV	50	1.154000	0.001631	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	NV	-30	0.496000	0.000695	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	NV	-20	-1.254000	-0.001758	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	NV	-10	0.107000	0.000150	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	NV	0	-1.324000	-0.001856	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	NV	10	-1.274000	-0.001786	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	NV	20	-1.479000	-0.002073	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	NV	30	-1.049000	-0.001470	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	NV	40	-1.944000	-0.002725	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	NV	50	-1.397000	-0.001958	PASS



N13

PEAK-TO-AVERAGE RATIO(CCDF)

TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
N13	15	5	DFT-PI/2 BPSK	L	Outer_Full	4.06	13	PASS
N13	15	5	DFT-PI/2 BPSK	L	Edge_1RB_Left	3.92	13	PASS
N13	15	5	DFT-PI/2 BPSK	M	Outer_Full	4.46	13	PASS
N13	15	5	DFT-PI/2 BPSK	M	Edge_1RB_Left	4.54	13	PASS
N13	15	5	DFT-PI/2 BPSK	H	Outer_Full	4.62	13	PASS
N13	15	5	DFT-PI/2 BPSK	H	Edge_1RB_Left	4.78	13	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	5.26	13	PASS
N13	15	5	DFT-QPSK	L	Edge_1RB_Left	4.98	13	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	5.06	13	PASS
N13	15	5	DFT-QPSK	M	Edge_1RB_Left	5.24	13	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	4.88	13	PASS
N13	15	5	DFT-QPSK	H	Edge_1RB_Left	5.54	13	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	6.14	13	PASS
N13	15	5	DFT-16QAM	L	Edge_1RB_Left	6.02	13	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	5.92	13	PASS
N13	15	5	DFT-16QAM	M	Edge_1RB_Left	6.16	13	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	6.04	13	PASS
N13	15	5	DFT-16QAM	H	Edge_1RB_Left	6.38	13	PASS
N13	15	5	DFT-64QAM	L	Outer_Full	6.38	13	PASS
N13	15	5	DFT-64QAM	L	Edge_1RB_Left	6.12	13	PASS
N13	15	5	DFT-64QAM	M	Outer_Full	6.36	13	PASS
N13	15	5	DFT-64QAM	M	Edge_1RB_Left	6.60	13	PASS
N13	15	5	DFT-64QAM	H	Outer_Full	6.26	13	PASS
N13	15	5	DFT-64QAM	H	Edge_1RB_Left	6.26	13	PASS
N13	15	5	DFT-256QAM	L	Outer_Full	6.58	13	PASS
N13	15	5	DFT-256QAM	L	Edge_1RB_Left	6.30	13	PASS
N13	15	5	DFT-256QAM	M	Outer_Full	6.50	13	PASS
N13	15	5	DFT-256QAM	M	Edge_1RB_Left	6.62	13	PASS
N13	15	5	DFT-256QAM	H	Outer_Full	6.72	13	PASS
N13	15	5	DFT-256QAM	H	Edge_1RB_Left	6.64	13	PASS
N13	15	10	DFT-PI/2 BPSK	M	Outer_Full	4.62	13	PASS



N13	15	10	DFT-PI/2 BPSK	M	Edge_1RB_Left	4.60	13	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	4.60	13	PASS
N13	15	10	DFT-QPSK	M	Edge_1RB_Left	5.60	13	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	5.70	13	PASS
N13	15	10	DFT-16QAM	M	Edge_1RB_Left	6.28	13	PASS
N13	15	10	DFT-64QAM	M	Outer_Full	5.80	13	PASS
N13	15	10	DFT-64QAM	M	Edge_1RB_Left	6.68	13	PASS
N13	15	10	DFT-256QAM	M	Outer_Full	6.58	13	PASS
N13	15	10	DFT-256QAM	M	Edge_1RB_Left	6.82	13	PASS