

Appendix-C NR Band n13

Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Band	SCS	BW	Modulation	CH	RB Config	Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
n13	15	5	DFT-BPSK	L	Inner_1RB_Left	23.76	19.35	34.77	PASS
n13	15	5	DFT-BPSK	L	Inner_1RB_Right	23.68	19.27	34.77	PASS
n13	15	5	DFT-BPSK	L	Inner_Full	23.73	19.32	34.77	PASS
n13	15	5	DFT-BPSK	L	Outer_Full	23.8	19.39	34.77	PASS
n13	15	5	DFT-QPSK	L	Inner_1RB_Left	23.79	19.38	34.77	PASS
n13	15	5	DFT-QPSK	L	Inner_1RB_Right	23.68	19.27	34.77	PASS
n13	15	5	DFT-QPSK	L	Inner_Full	23.71	19.3	34.77	PASS
n13	15	5	DFT-QPSK	L	Outer_Full	23.75	19.34	34.77	PASS
n13	15	5	DFT-16QAM	L	Inner_1RB_Left	23.71	19.3	34.77	PASS
n13	15	5	DFT-16QAM	L	Inner_1RB_Right	23.69	19.28	34.77	PASS
n13	15	5	DFT-16QAM	L	Inner_Full	23.75	19.34	34.77	PASS
n13	15	5	DFT-16QAM	L	Outer_Full	22.72	18.31	34.77	PASS
n13	15	5	DFT-64QAM	L	Inner_1RB_Left	22.58	18.17	34.77	PASS
n13	15	5	DFT-64QAM	L	Inner_1RB_Right	22.34	17.93	34.77	PASS
n13	15	5	DFT-64QAM	L	Inner_Full	22.36	17.95	34.77	PASS
n13	15	5	DFT-64QAM	L	Outer_Full	22.24	17.83	34.77	PASS
n13	15	5	DFT-256QAM	L	Inner_1RB_Left	19.78	15.37	34.77	PASS
n13	15	5	DFT-256QAM	L	Inner_1RB_Right	19.67	15.26	34.77	PASS
n13	15	5	DFT-256QAM	L	Inner_Full	20.28	15.87	34.77	PASS
n13	15	5	DFT-256QAM	L	Outer_Full	20.17	15.76	34.77	PASS
n13	15	5	DFT-BPSK	M	Inner_1RB_Left	23.71	19.3	34.77	PASS
n13	15	5	DFT-BPSK	M	Inner_1RB_Right	23.51	19.1	34.77	PASS
n13	15	5	DFT-BPSK	M	Inner_Full	23.57	19.16	34.77	PASS
n13	15	5	DFT-BPSK	M	Outer_Full	23.62	19.21	34.77	PASS
n13	15	5	DFT-QPSK	M	Inner_1RB_Left	23.71	19.3	34.77	PASS
n13	15	5	DFT-QPSK	M	Inner_1RB_Right	23.52	19.11	34.77	PASS
n13	15	5	DFT-QPSK	M	Inner_Full	23.62	19.21	34.77	PASS
n13	15	5	DFT-QPSK	M	Outer_Full	23.56	19.15	34.77	PASS
n13	15	5	DFT-16QAM	M	Inner_1RB_Left	23.7	19.29	34.77	PASS
n13	15	5	DFT-16QAM	M	Inner_1RB_Right	23.51	19.1	34.77	PASS
n13	15	5	DFT-16QAM	M	Inner_Full	23.68	19.27	34.77	PASS
n13	15	5	DFT-16QAM	M	Outer_Full	22.68	18.27	34.77	PASS
n13	15	5	DFT-64QAM	M	Inner_1RB_Left	22.46	18.05	34.77	PASS
n13	15	5	DFT-64QAM	M	Inner_1RB_Right	22.24	17.83	34.77	PASS
n13	15	5	DFT-64QAM	M	Inner_Full	22.21	17.8	34.77	PASS
n13	15	5	DFT-64QAM	M	Outer_Full	22.11	17.7	34.77	PASS

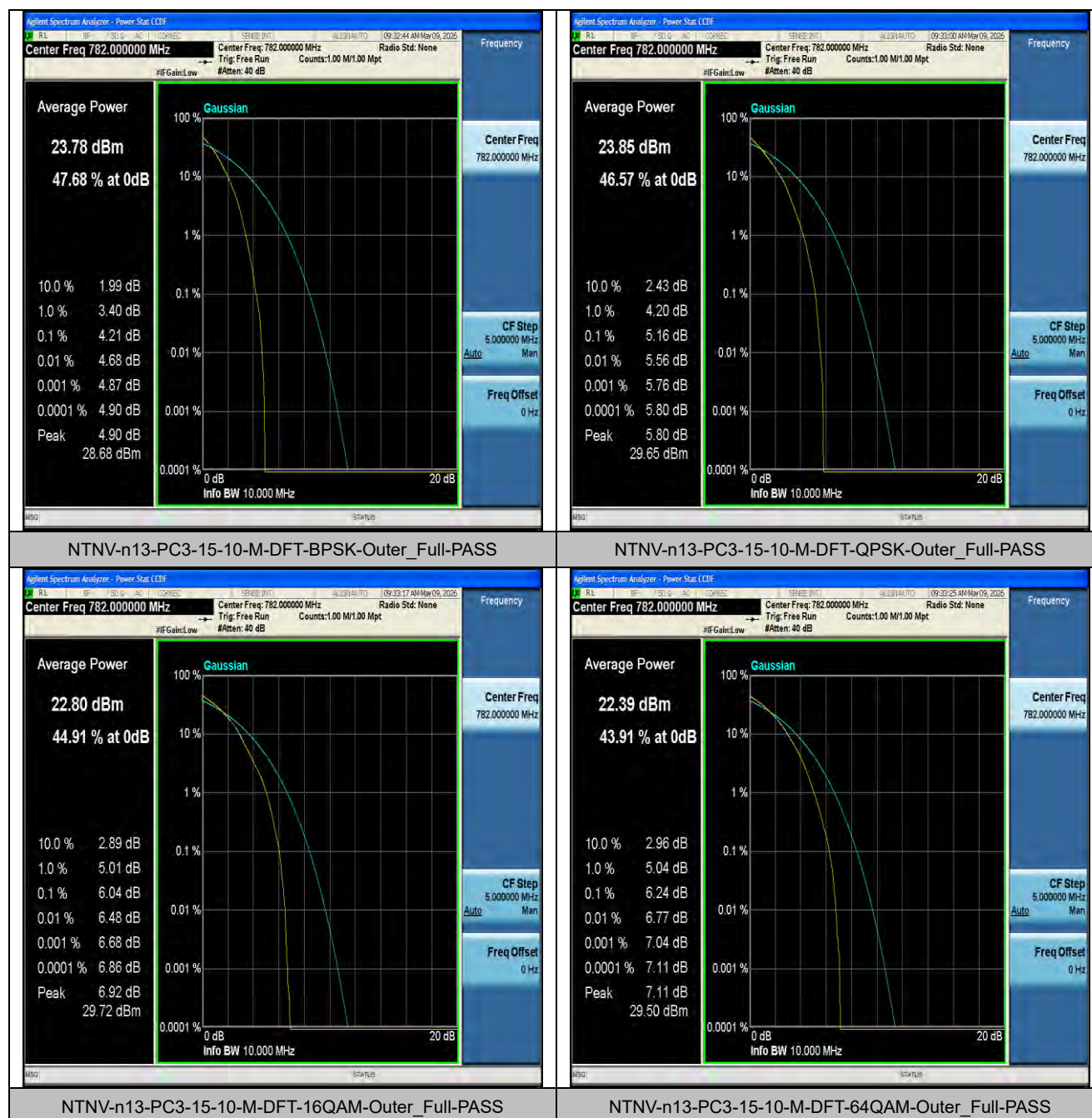
n13	15	5	DFT-256QAM	M	Inner_1RB_Left	19.69	15.28	34.77	PASS
n13	15	5	DFT-256QAM	M	Inner_1RB_Right	19.5	15.09	34.77	PASS
n13	15	5	DFT-256QAM	M	Inner_Full	20.17	15.76	34.77	PASS
n13	15	5	DFT-256QAM	M	Outer_Full	20.02	15.61	34.77	PASS
n13	15	5	DFT-BPSK	H	Inner_1RB_Left	23.62	19.21	34.77	PASS
n13	15	5	DFT-BPSK	H	Inner_1RB_Right	23.41	19	34.77	PASS
n13	15	5	DFT-BPSK	H	Inner_Full	23.45	19.04	34.77	PASS
n13	15	5	DFT-BPSK	H	Outer_Full	23.5	19.09	34.77	PASS
n13	15	5	DFT-QPSK	H	Inner_1RB_Left	23.63	19.22	34.77	PASS
n13	15	5	DFT-QPSK	H	Inner_1RB_Right	23.43	19.02	34.77	PASS
n13	15	5	DFT-QPSK	H	Inner_Full	23.51	19.1	34.77	PASS
n13	15	5	DFT-QPSK	H	Outer_Full	23.48	19.07	34.77	PASS
n13	15	5	DFT-16QAM	H	Inner_1RB_Left	23.53	19.12	34.77	PASS
n13	15	5	DFT-16QAM	H	Inner_1RB_Right	23.43	19.02	34.77	PASS
n13	15	5	DFT-16QAM	H	Inner_Full	23.56	19.15	34.77	PASS
n13	15	5	DFT-16QAM	H	Outer_Full	22.57	18.16	34.77	PASS
n13	15	5	DFT-64QAM	H	Inner_1RB_Left	22.29	17.88	34.77	PASS
n13	15	5	DFT-64QAM	H	Inner_1RB_Right	22.13	17.72	34.77	PASS
n13	15	5	DFT-64QAM	H	Inner_Full	22.11	17.7	34.77	PASS
n13	15	5	DFT-64QAM	H	Outer_Full	22	17.59	34.77	PASS
n13	15	5	DFT-256QAM	H	Inner_1RB_Left	19.51	15.1	34.77	PASS
n13	15	5	DFT-256QAM	H	Inner_1RB_Right	19.39	14.98	34.77	PASS
n13	15	5	DFT-256QAM	H	Inner_Full	20.01	15.6	34.77	PASS
n13	15	5	DFT-256QAM	H	Outer_Full	19.98	15.57	34.77	PASS
n13	15	10	DFT-BPSK	M	Inner_1RB_Left	23.82	19.41	34.77	PASS
n13	15	10	DFT-BPSK	M	Inner_1RB_Right	23.47	19.06	34.77	PASS
n13	15	10	DFT-BPSK	M	Inner_Full	23.61	19.2	34.77	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	23.57	19.16	34.77	PASS
n13	15	10	DFT-QPSK	M	Inner_1RB_Left	23.81	19.4	34.77	PASS
n13	15	10	DFT-QPSK	M	Inner_1RB_Right	23.45	19.04	34.77	PASS
n13	15	10	DFT-QPSK	M	Inner_Full	23.65	19.24	34.77	PASS
n13	15	10	DFT-QPSK	M	Outer_Full	23.64	19.23	34.77	PASS
n13	15	10	DFT-16QAM	M	Inner_1RB_Left	23.71	19.3	34.77	PASS
n13	15	10	DFT-16QAM	M	Inner_1RB_Right	23.46	19.05	34.77	PASS
n13	15	10	DFT-16QAM	M	Inner_Full	23.68	19.27	34.77	PASS
n13	15	10	DFT-16QAM	M	Outer_Full	22.72	18.31	34.77	PASS
n13	15	10	DFT-64QAM	M	Inner_1RB_Left	22.53	18.12	34.77	PASS
n13	15	10	DFT-64QAM	M	Inner_1RB_Right	22.16	17.75	34.77	PASS
n13	15	10	DFT-64QAM	M	Inner_Full	22.17	17.76	34.77	PASS
n13	15	10	DFT-64QAM	M	Outer_Full	22.18	17.77	34.77	PASS
n13	15	10	DFT-256QAM	M	Inner_1RB_Left	19.7	15.29	34.77	PASS
n13	15	10	DFT-256QAM	M	Inner_1RB_Right	19.41	15	34.77	PASS
n13	15	10	DFT-256QAM	M	Inner_Full	20.06	15.65	34.77	PASS
n13	15	10	DFT-256QAM	M	Outer_Full	20.14	15.73	34.77	PASS

Peak-to-Average Ratio for SA

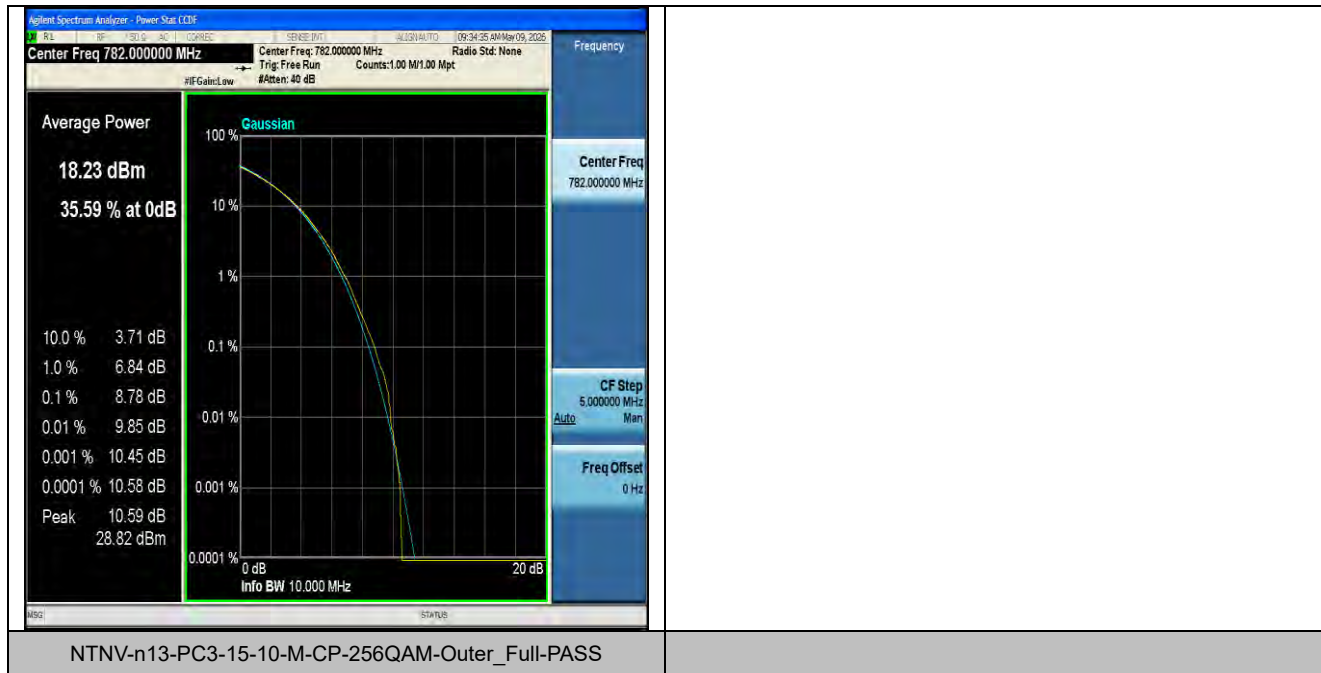
Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (dB)	Limit (dB)	Verdict
n13	15	10	DFT-BPSK	M	Outer_Full	4.21	≤13dB	PASS
n13	15	10	DFT-QPSK	M	Outer_Full	5.16	≤13dB	PASS
n13	15	10	DFT-16QAM	M	Outer_Full	6.04	≤13dB	PASS
n13	15	10	DFT-64QAM	M	Outer_Full	6.24	≤13dB	PASS
n13	15	10	DFT-256QAM	M	Outer_Full	6.63	≤13dB	PASS
n13	15	10	CP-QPSK	M	Outer_Full	7.34	≤13dB	PASS
n13	15	10	CP-16QAM	M	Outer_Full	7.44	≤13dB	PASS
n13	15	10	CP-64QAM	M	Outer_Full	7.41	≤13dB	PASS
n13	15	10	CP-256QAM	M	Outer_Full	8.78	≤13dB	PASS

Test Graphs



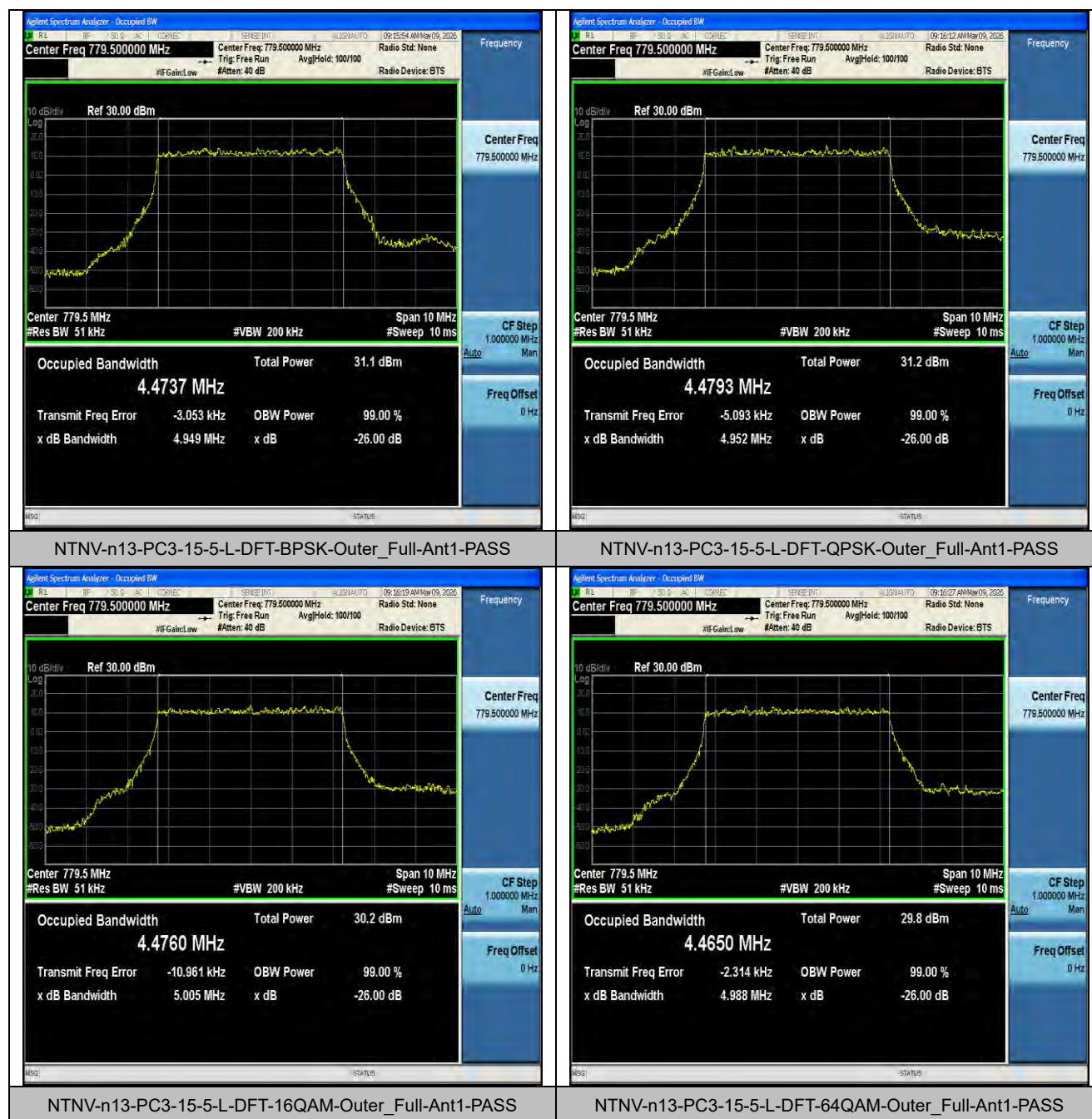


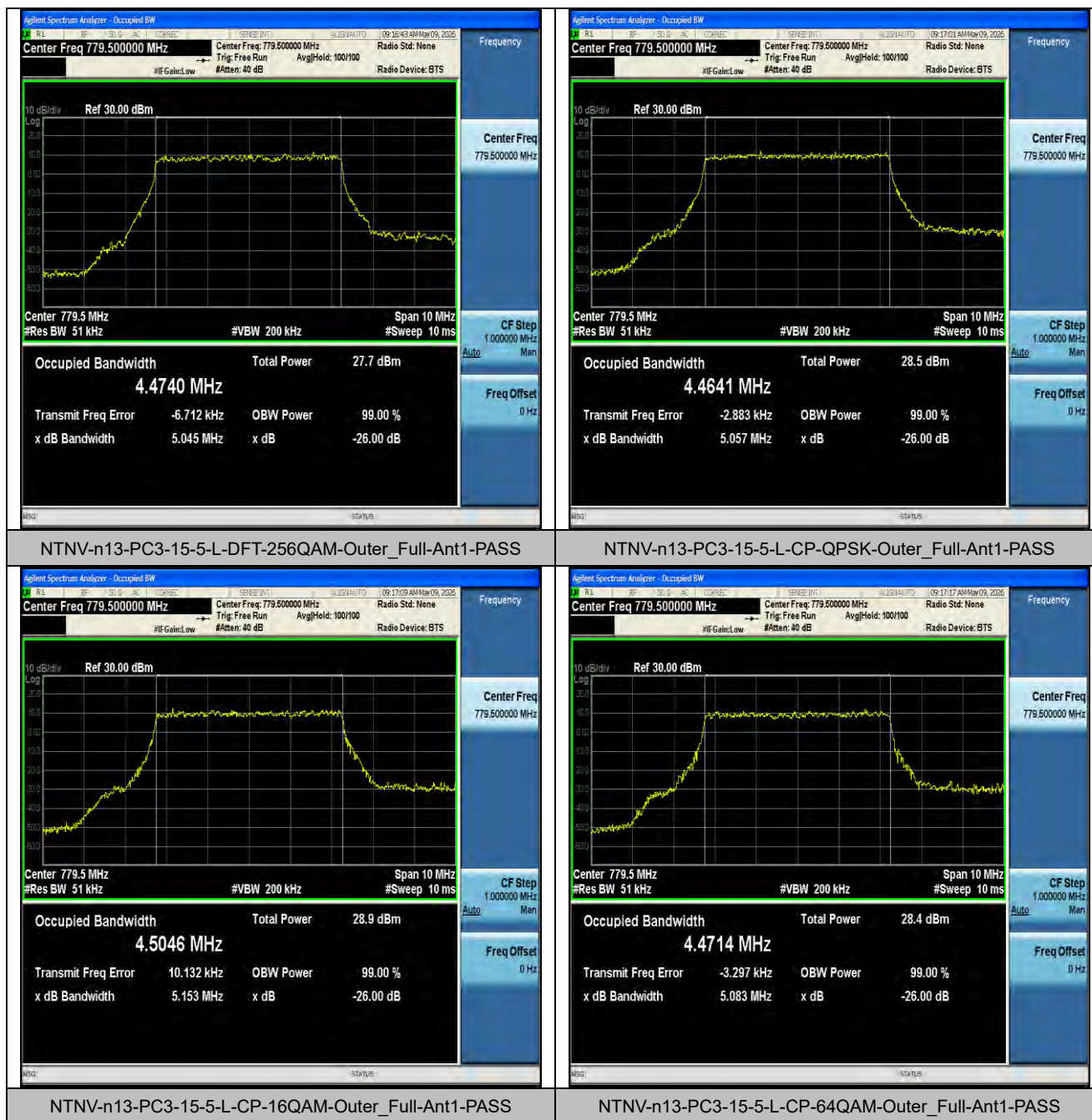


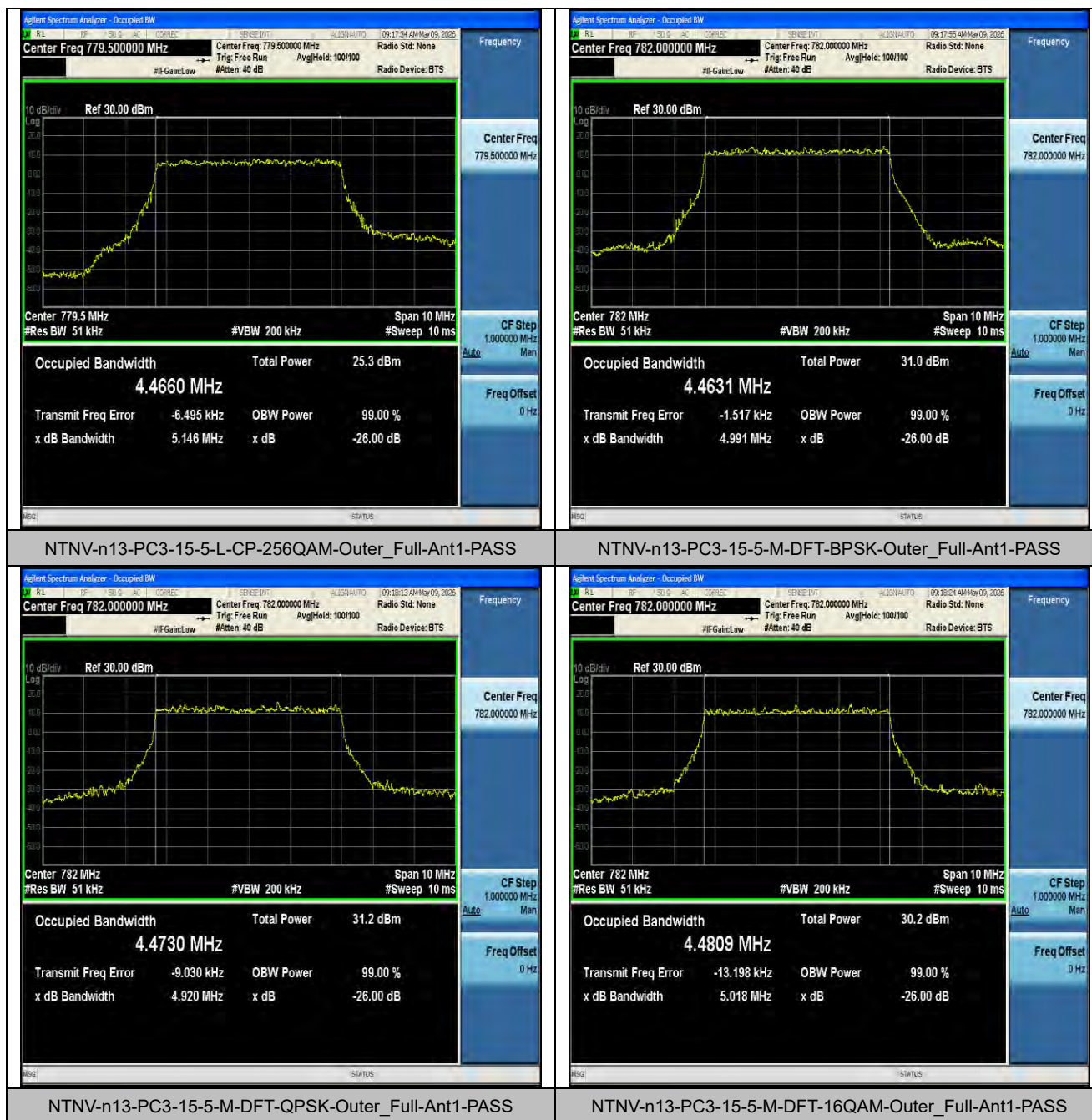
26dB Bandwidth and Occupied Bandwidth for SA**Test Result**

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
n13	15	5	DFT-BPSK	L	Outer_Full	4.4737	4.949	PASS
n13	15	5	DFT-QPSK	L	Outer_Full	4.4793	4.952	PASS
n13	15	5	DFT-16QAM	L	Outer_Full	4.4760	5.005	PASS
n13	15	5	DFT-64QAM	L	Outer_Full	4.4650	4.988	PASS
n13	15	5	DFT-256QAM	L	Outer_Full	4.4740	5.045	PASS
n13	15	5	CP-QPSK	L	Outer_Full	4.4641	5.057	PASS
n13	15	5	CP-16QAM	L	Outer_Full	4.5046	5.153	PASS
n13	15	5	CP-64QAM	L	Outer_Full	4.4714	5.083	PASS
n13	15	5	CP-256QAM	L	Outer_Full	4.4660	5.146	PASS
n13	15	5	DFT-BPSK	M	Outer_Full	4.4631	4.991	PASS
n13	15	5	DFT-QPSK	M	Outer_Full	4.4730	4.920	PASS
n13	15	5	DFT-16QAM	M	Outer_Full	4.4809	5.018	PASS
n13	15	5	DFT-64QAM	M	Outer_Full	4.4689	4.961	PASS
n13	15	5	DFT-256QAM	M	Outer_Full	4.4792	5.025	PASS
n13	15	5	CP-QPSK	M	Outer_Full	4.4938	5.142	PASS
n13	15	5	CP-16QAM	M	Outer_Full	4.4868	5.181	PASS
n13	15	5	CP-64QAM	M	Outer_Full	4.4888	5.097	PASS
n13	15	5	CP-256QAM	M	Outer_Full	4.4801	5.118	PASS
n13	15	5	DFT-BPSK	H	Outer_Full	4.4706	5.018	PASS
n13	15	5	DFT-QPSK	H	Outer_Full	4.4742	4.910	PASS
n13	15	5	DFT-16QAM	H	Outer_Full	4.4858	5.050	PASS
n13	15	5	DFT-64QAM	H	Outer_Full	4.4690	4.901	PASS
n13	15	5	DFT-256QAM	H	Outer_Full	4.4619	5.001	PASS
n13	15	5	CP-QPSK	H	Outer_Full	4.4671	5.107	PASS
n13	15	5	CP-16QAM	H	Outer_Full	4.4854	5.091	PASS
n13	15	5	CP-64QAM	H	Outer_Full	4.4801	5.117	PASS
n13	15	5	CP-256QAM	H	Outer_Full	4.4747	5.166	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	8.8861	9.602	PASS
n13	15	10	DFT-QPSK	M	Outer_Full	8.9005	9.591	PASS
n13	15	10	DFT-16QAM	M	Outer_Full	8.9304	9.545	PASS
n13	15	10	DFT-64QAM	M	Outer_Full	8.9136	9.510	PASS
n13	15	10	DFT-256QAM	M	Outer_Full	8.8975	9.504	PASS
n13	15	10	CP-QPSK	M	Outer_Full	9.2606	10.10	PASS
n13	15	10	CP-16QAM	M	Outer_Full	9.2472	10.02	PASS
n13	15	10	CP-64QAM	M	Outer_Full	9.2538	9.955	PASS
n13	15	10	CP-256QAM	M	Outer_Full	9.2749	10.00	PASS

Test Graphs





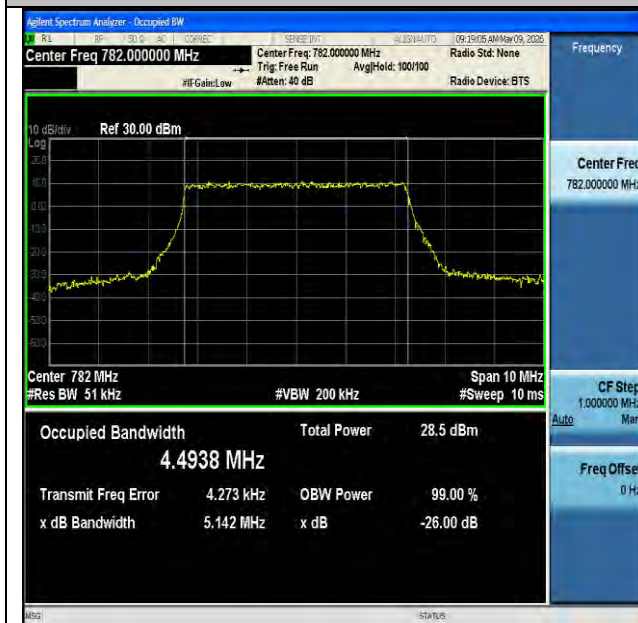




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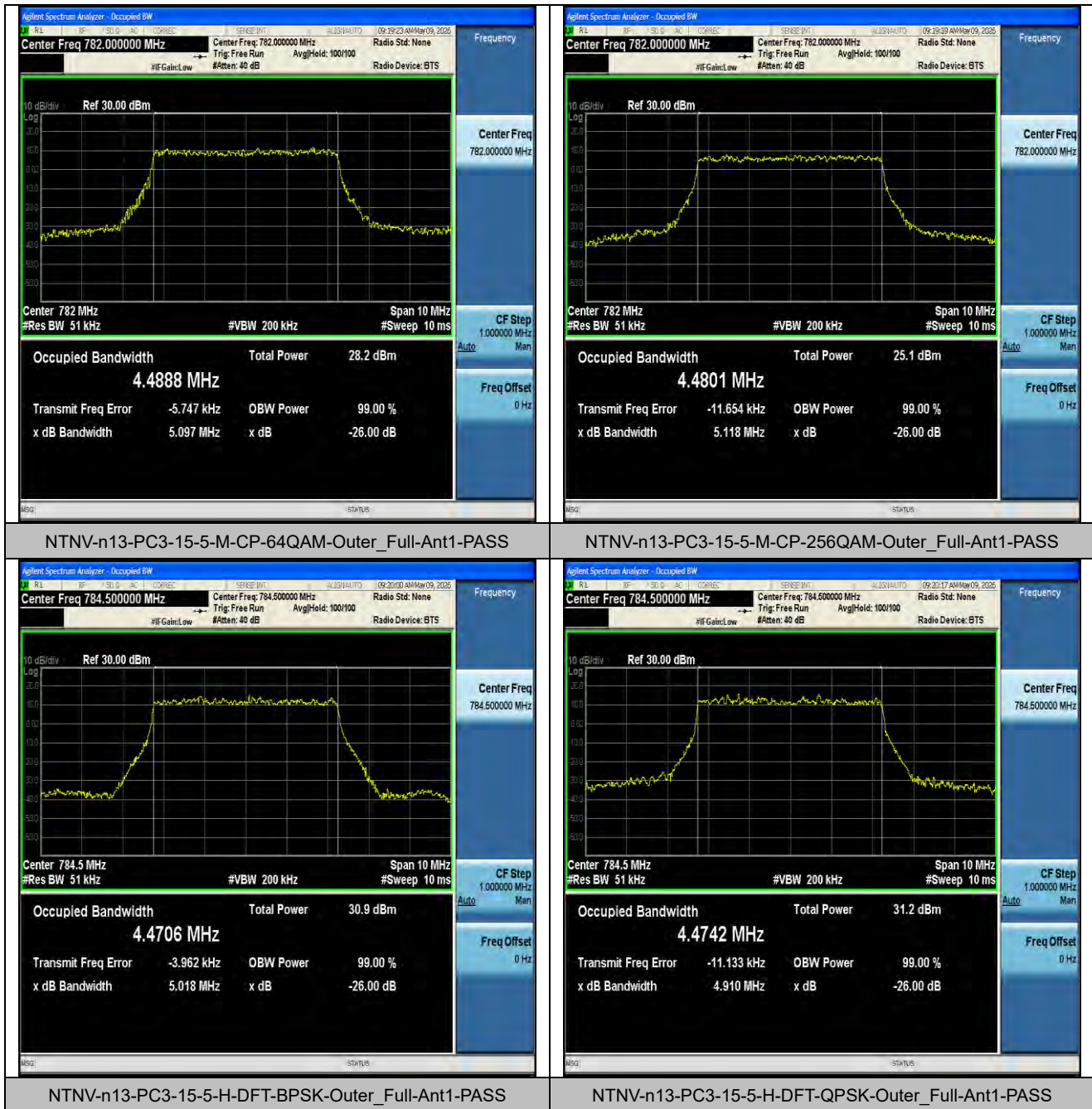
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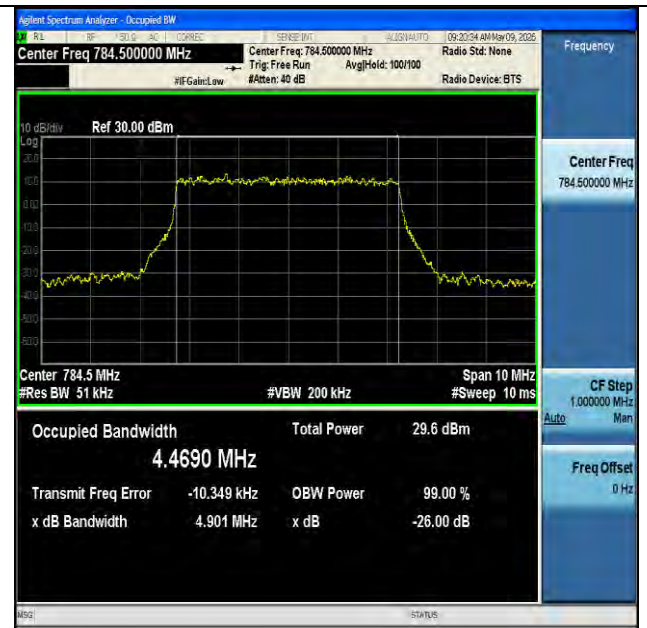


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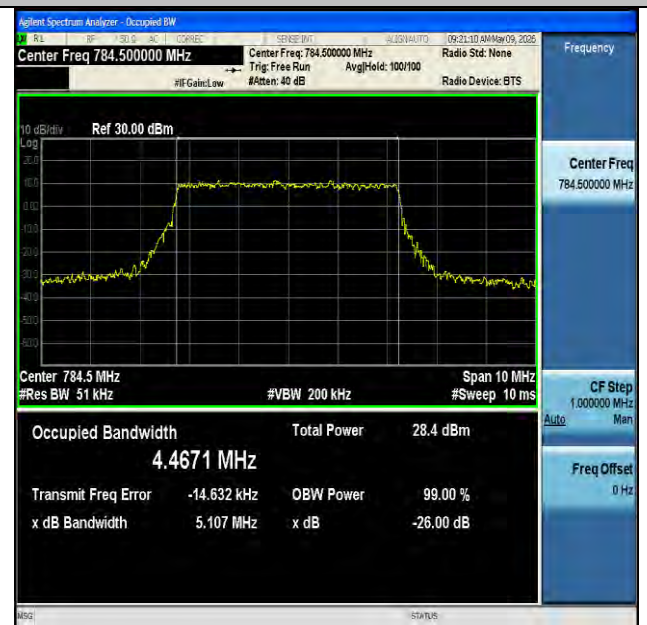
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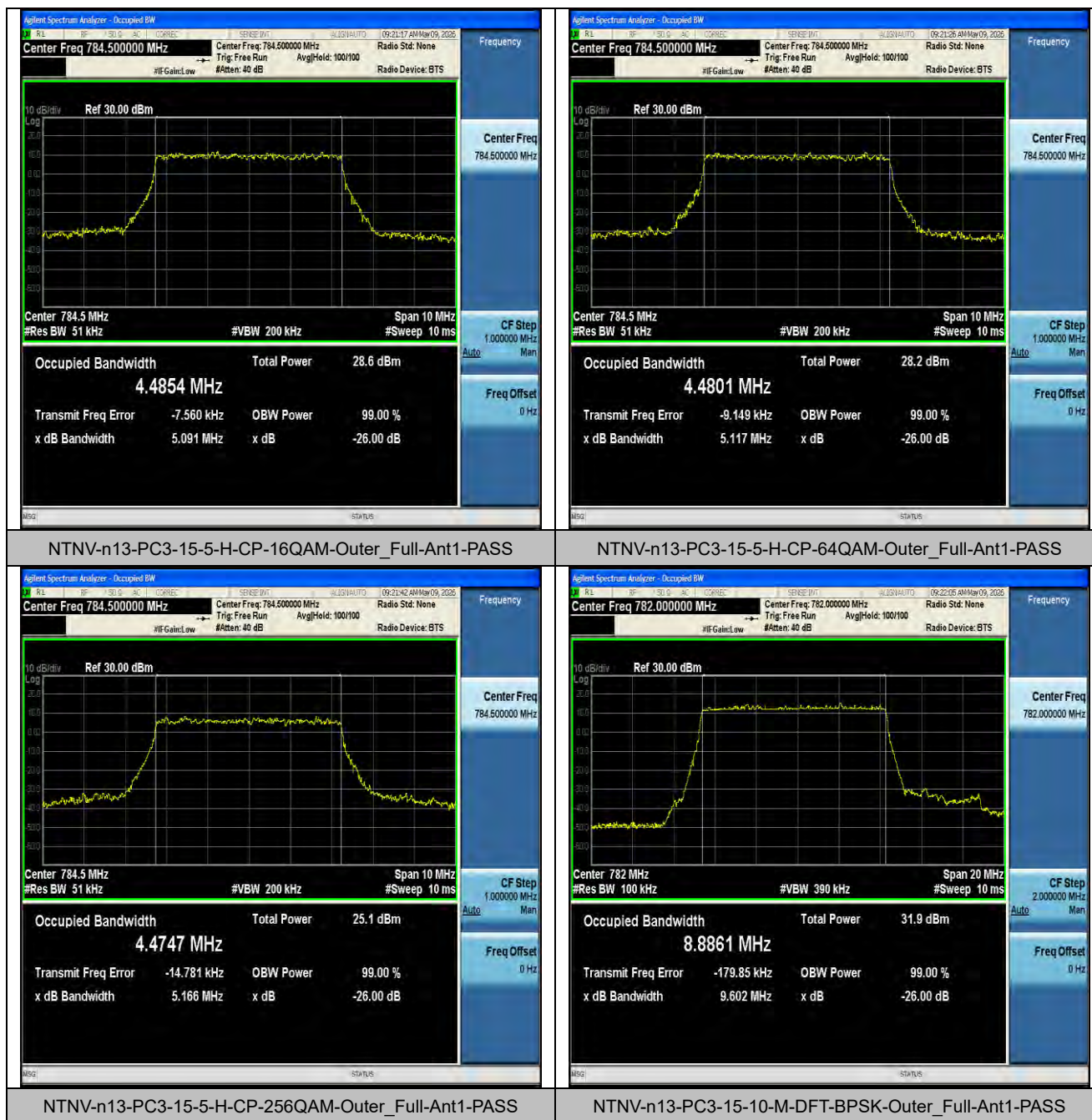
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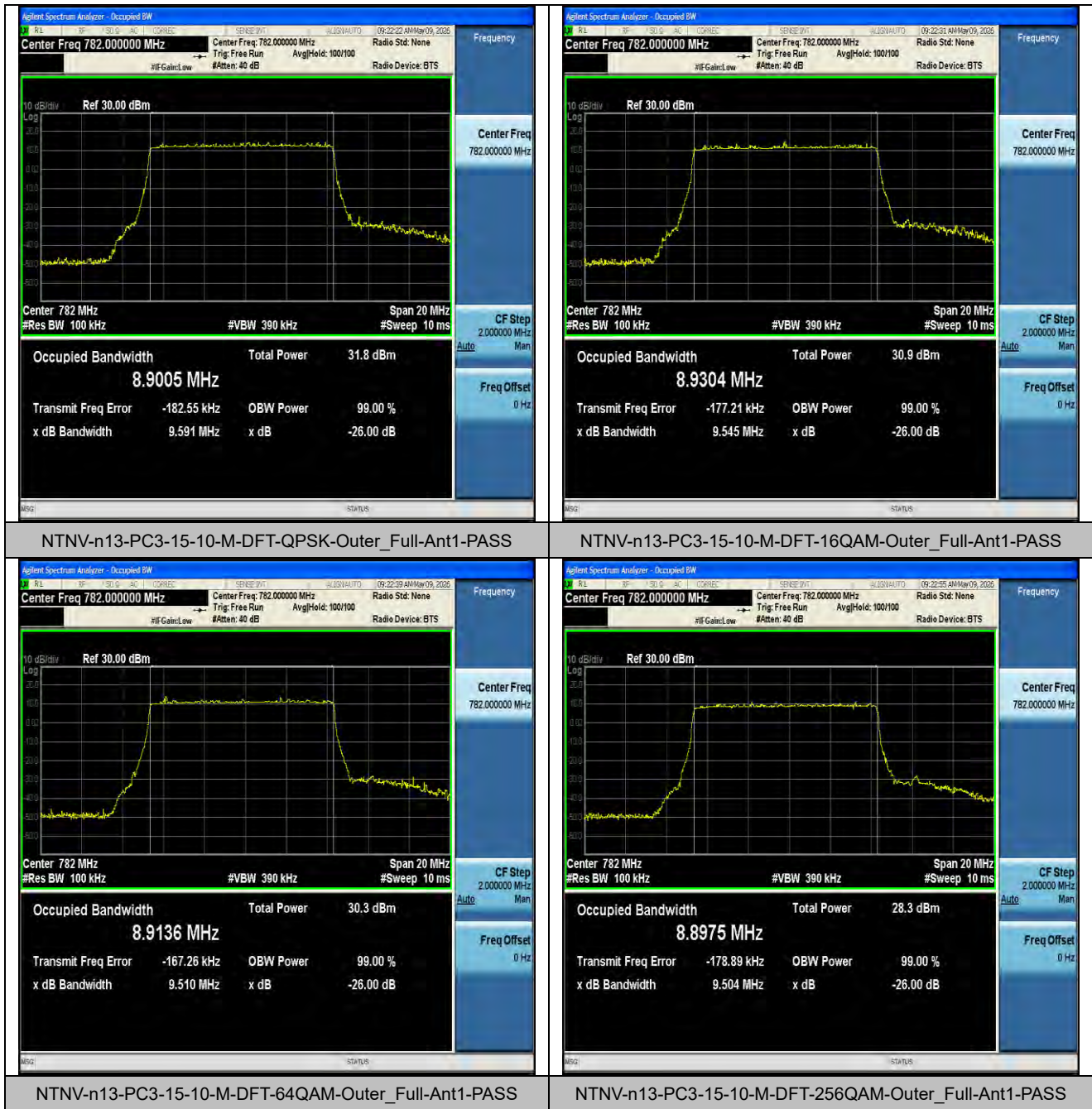


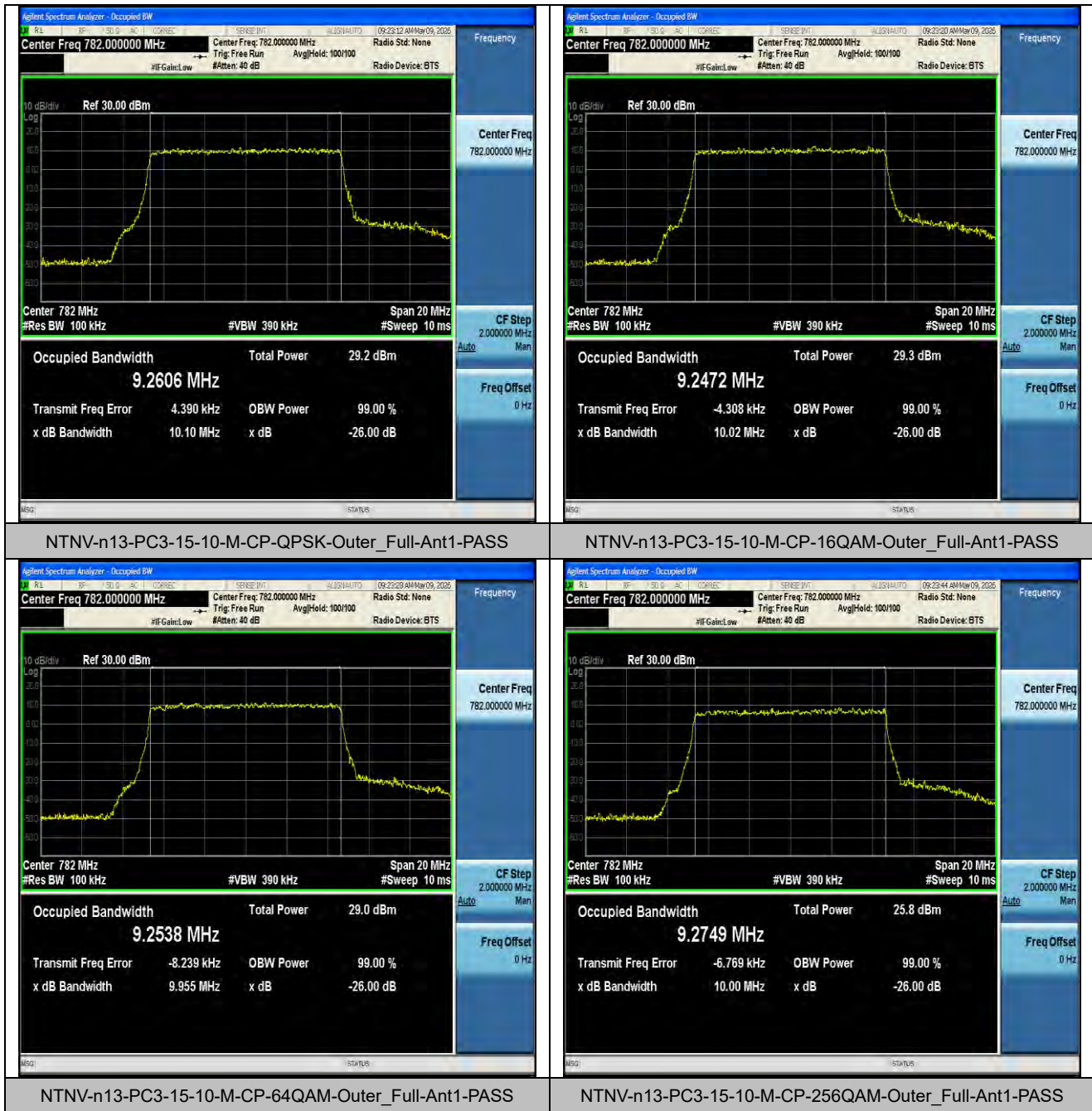
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NTNV-n13-PC3-15-5-H-CP-QPSK-Outer_Full-Ant1-PASS

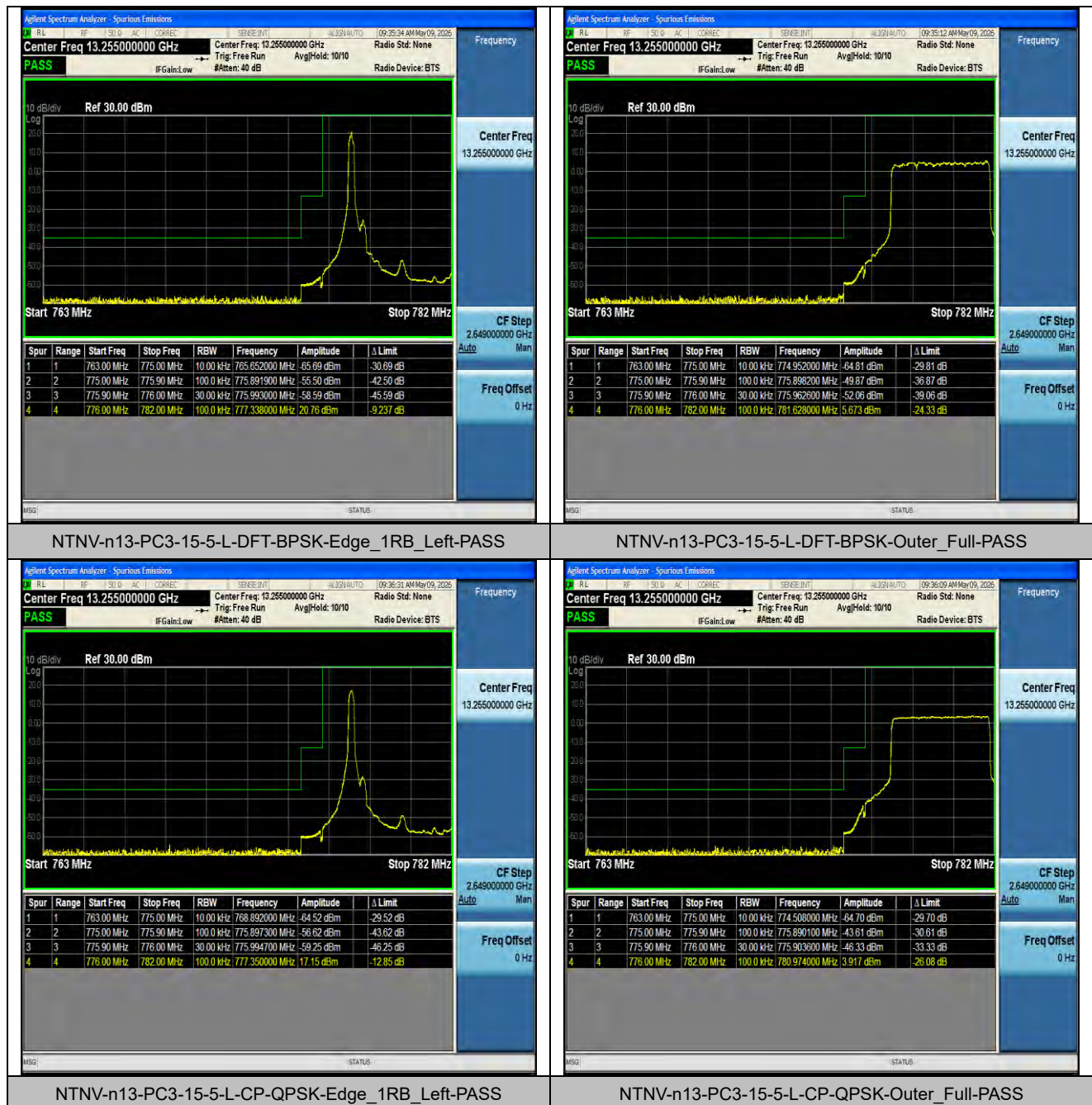


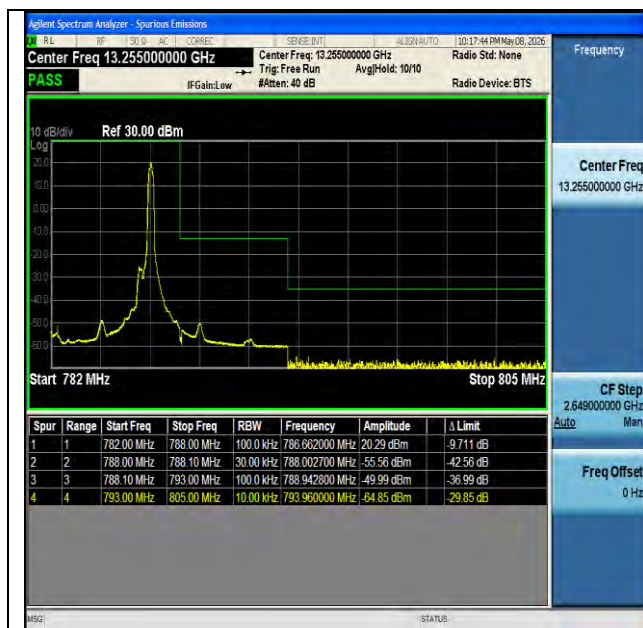




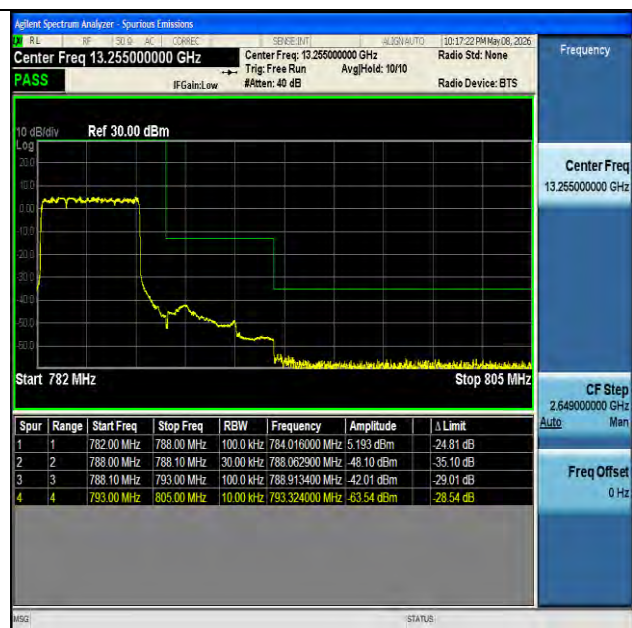
Band Edge for SA

Test Graphs

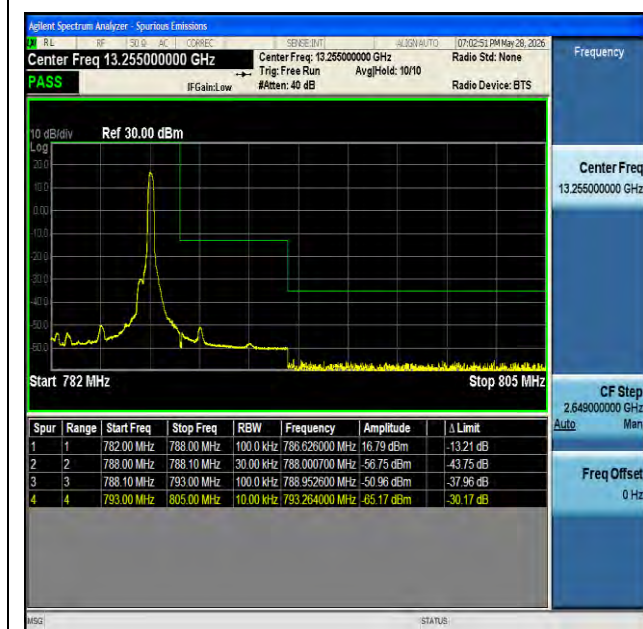




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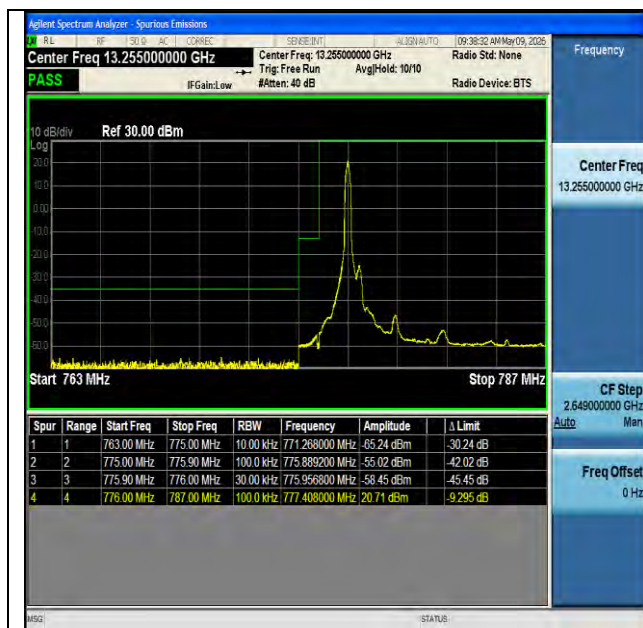
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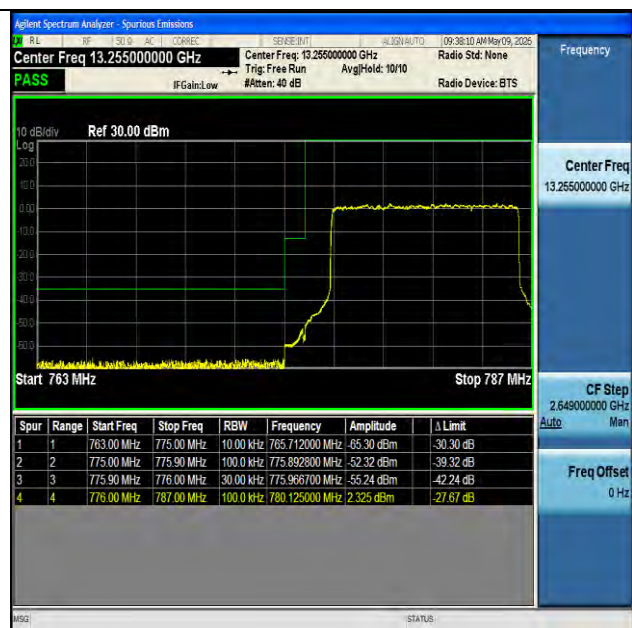
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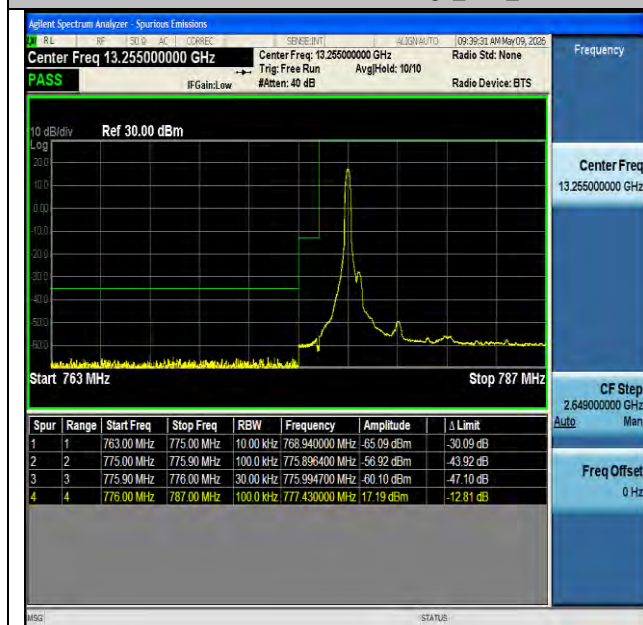
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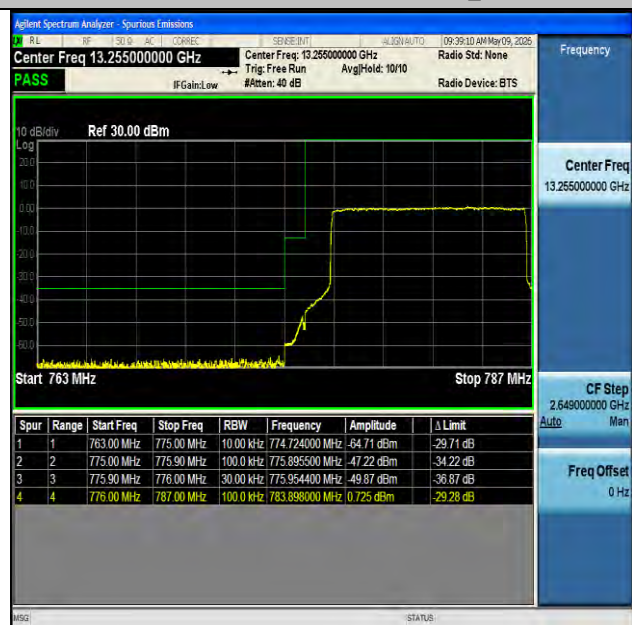
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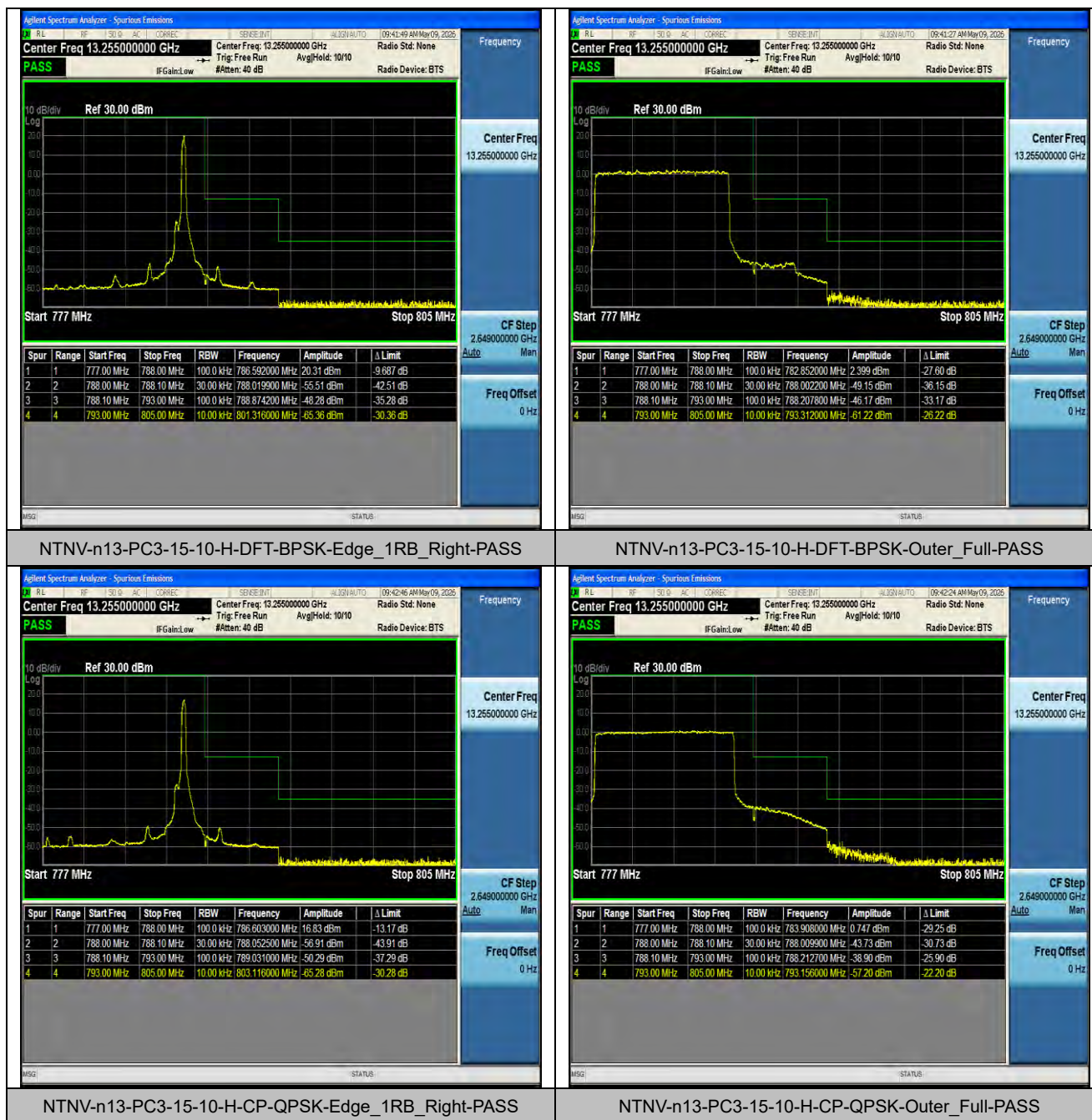
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NTNV-n13-PC3-15-10-L-CP-QPSK-Edge_1RB_Left-PASS

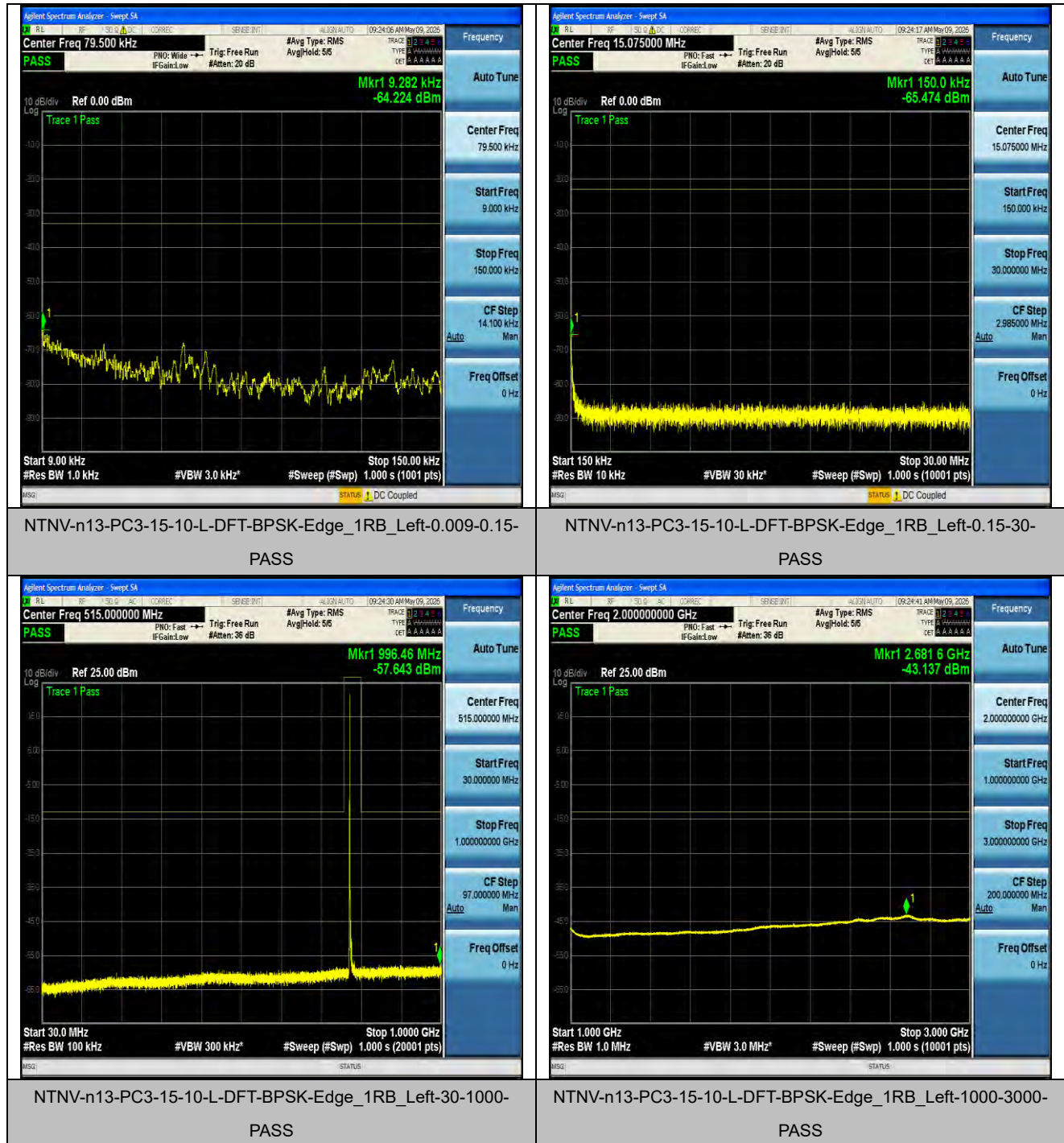


NTNV-n13-PC3-15-10-L-CP-QPSK-Outer_Full-PASS



Conducted Spurious Emission for SA

Test Graphs





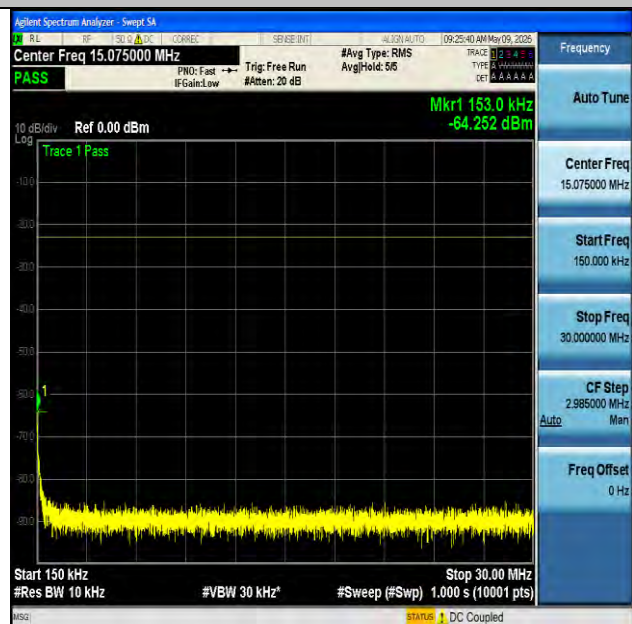
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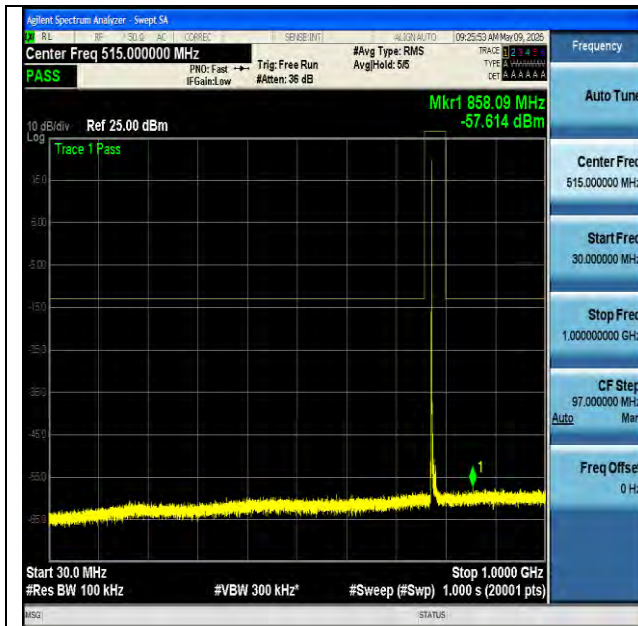
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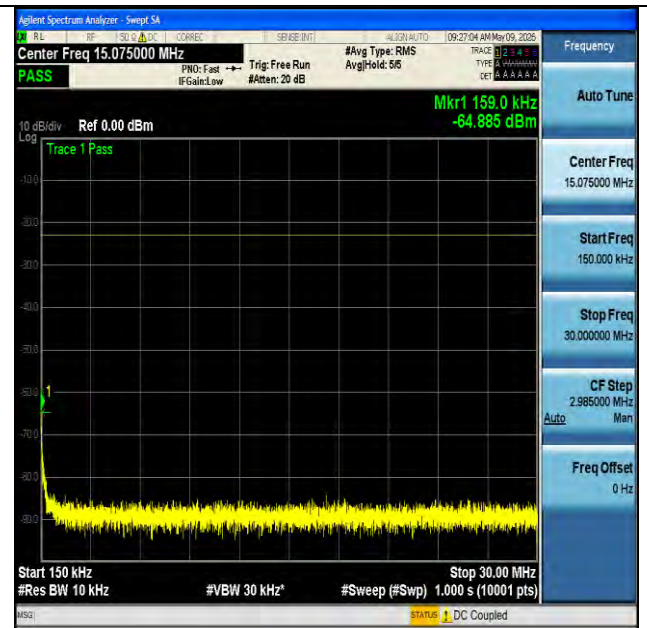
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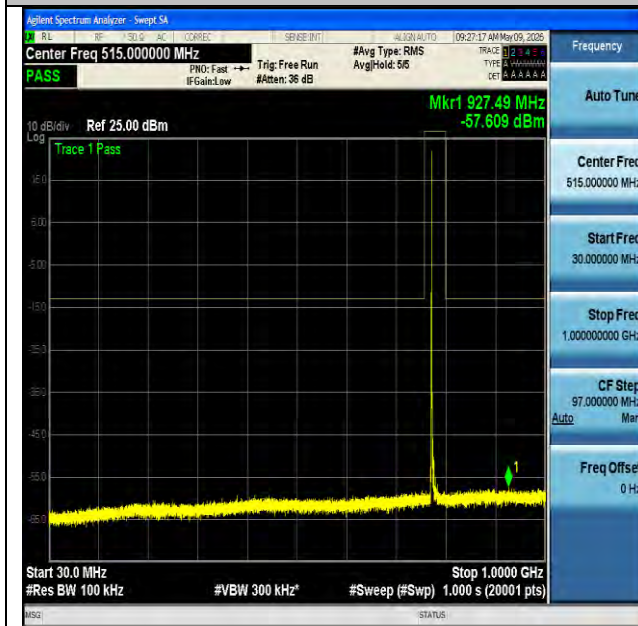
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PASS



NTNV-n13-PC3-15-10-M-DFT-BPSK-Edge_1RB_Left-30-1000-
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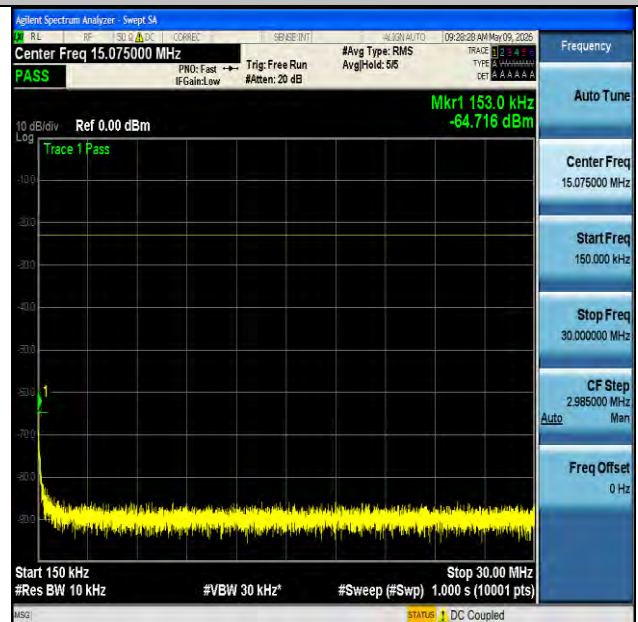
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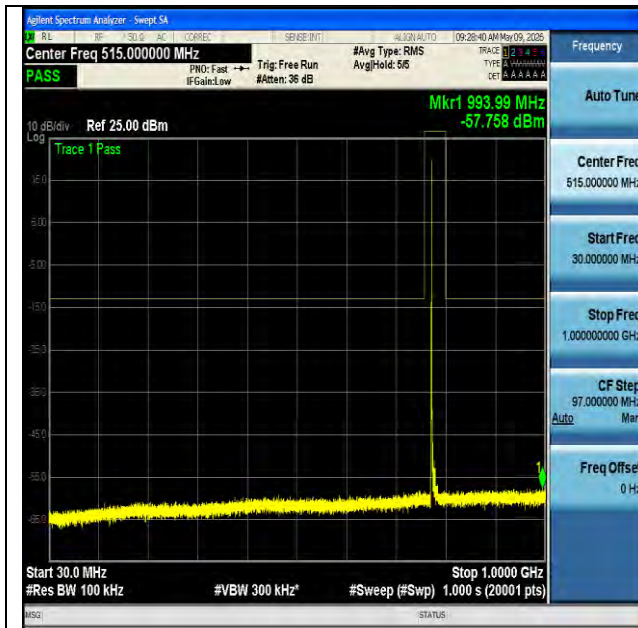
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NTNV-n13-PC3-15-10-M-CP-QPSK-Edge_1RB_Left-0.15-30-PASS



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



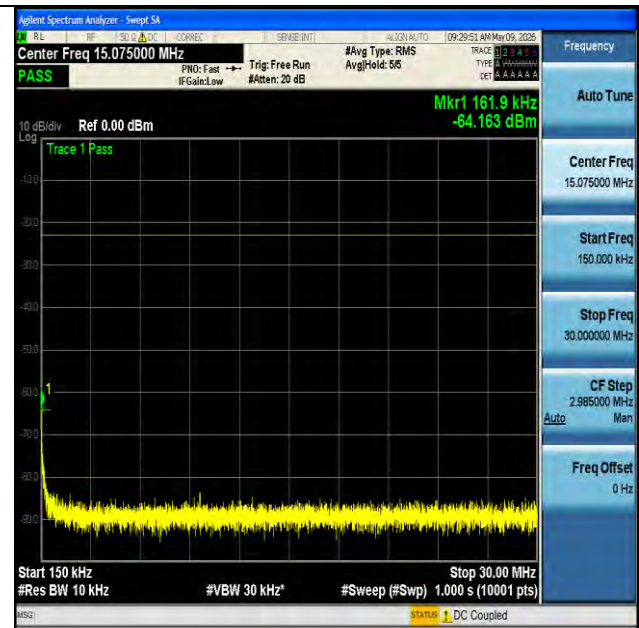
NTNV-n13-PC3-15-10-M-CP-QPSK-Edge_1RB_Left-3000-12000-
PASS



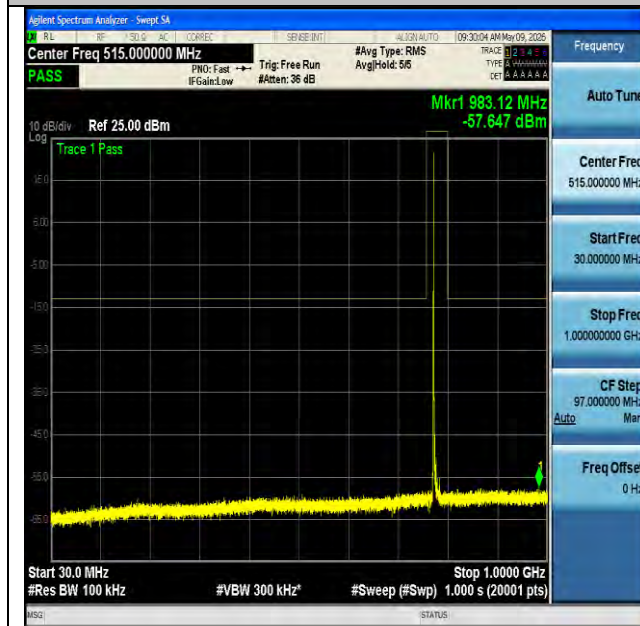
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20000-PASS



NTNV-n13-PC3-15-10-H-DFT-BPSK-Edge_1RB_Left-0.009-0.15-
PASS



NTNV-n13-PC3-15-10-H-DFT-BPSK-Edge_1RB_Left-0.15-30-
PASS



NTNV-n13-PC3-15-10-H-DFT-BPSK-Edge_1RB_Left-30-1000-
PASS



NTNV-n13-PC3-15-10-H-DFT-BPSK-Edge_1RB_Left-1000-3000-
PASS



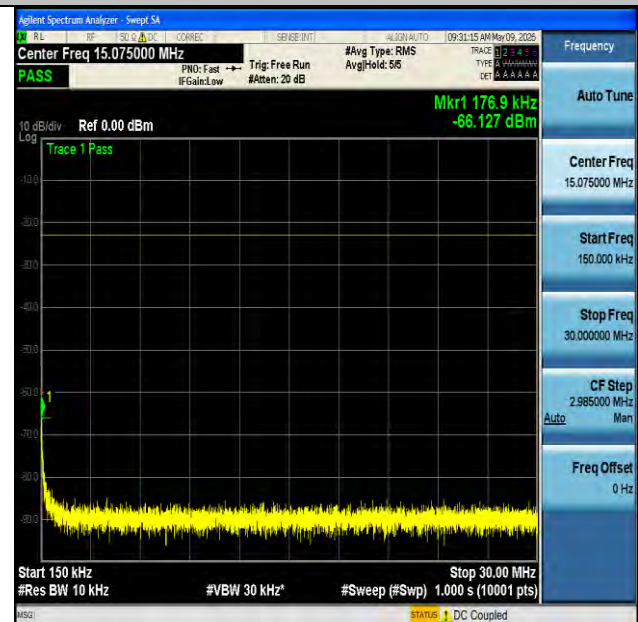
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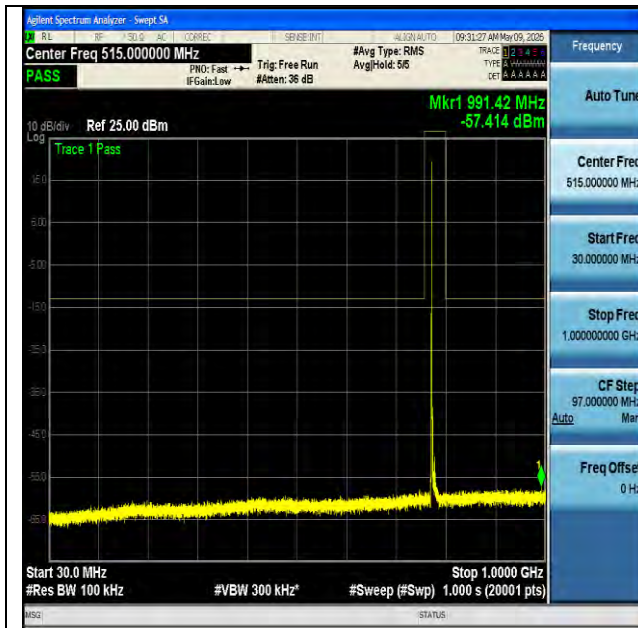
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NTNV-n13-PC3-15-10-H-CP-QPSK-Edge_1RB_Left-0.009-0.15-PASS



NTNV-n13-PC3-15-10-H-CP-QPSK-Edge_1RB_Left-0.15-30-PASS



NTNV-n13-PC3-15-10-H-CP-QPSK-Edge_1RB_Left-30-1000-
PASS



NTNV-n13-PC3-15-10-H-CP-QPSK-Edge_1RB_Left-1000-3000-
PASS



NTNV-n13-PC3-15-10-H-CP-QPSK-Edge_1RB_Left-3000-12000-
PASS



NTNV-n13-PC3-15-10-H-CP-QPSK-Edge_1RB_Left-12000-
20000-PASS

Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temp	Deviation (Hz)	Deviation (ppm)	Verdict
n13	15	10	DFT-BPSK	M	Outer_Full	VL	NT	-2.4	-0.003069	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	VN	NT	-3.4	-0.004348	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	VH	NT	-0.9	-0.001151	PASS
n13	15	10	CP-QPSK	M	Outer_Full	VL	NT	-4.4	-0.005627	PASS
n13	15	10	CP-QPSK	M	Outer_Full	VN	NT	1.3	0.001662	PASS
n13	15	10	CP-QPSK	M	Outer_Full	VH	NT	3.8	0.004859	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temp	Deviation (Hz)	Deviation (ppm)	Verdict
n13	15	10	DFT-BPSK	M	Outer_Full	NV	-30	-2.5	-0.003197	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	NV	-20	-1.1	-0.001407	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	NV	-10	-3.5	-0.004476	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	NV	0	-4.5	-0.005754	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	NV	10	-3.6	-0.004604	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	NV	20	-1.7	-0.002174	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	NV	30	-4.2	-0.005371	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	NV	40	-4.9	-0.006266	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	NV	50	-3.5	-0.004476	PASS
n13	15	10	CP-QPSK	M	Outer_Full	NV	-30	-1.2	-0.001535	PASS
n13	15	10	CP-QPSK	M	Outer_Full	NV	-20	-1.7	-0.002174	PASS
n13	15	10	CP-QPSK	M	Outer_Full	NV	-10	-2	-0.002558	PASS
n13	15	10	CP-QPSK	M	Outer_Full	NV	0	4.2	0.005371	PASS
n13	15	10	CP-QPSK	M	Outer_Full	NV	10	4.1	0.005243	PASS
n13	15	10	CP-QPSK	M	Outer_Full	NV	20	-2.3	-0.002941	PASS
n13	15	10	CP-QPSK	M	Outer_Full	NV	30	-3.2	-0.004092	PASS
n13	15	10	CP-QPSK	M	Outer_Full	NV	40	1.2	0.001535	PASS
n13	15	10	CP-QPSK	M	Outer_Full	NV	50	0.8	0.001023	PASS

~The End~