Appendix-B NR Band n13

Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Ant8:

Band	SCS	BW	Modulation	CH	RB Config	Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
N13	15	5	DFT-PI2BPSK	L	Outer_Full	24.04	22.89	44.77	PASS
N13	15	5	DFT-PI2BPSK	L	Inner_Full	24.52	23.37	44.77	PASS
N13	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	24.56	23.41	44.77	PASS
N13	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	24.52	23.37	44.77	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	23.60	22.45	44.77	PASS
N13	15	5	DFT-QPSK	L	Inner_Full	24.54	23.39	44.77	PASS
N13	15	5	DFT-QPSK	L	Inner_1RB_Left	24.37	23.22	44.77	PASS
N13	15	5	DFT-QPSK	L	Inner_1RB_Right	24.49	23.34	44.77	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	22.61	21.46	44.77	PASS
N13	15	5	DFT-16QAM	L	Inner_Full	23.61	22.46	44.77	PASS
N13	15	5	DFT-16QAM	L	Inner_1RB_Left	23.44	22.29	44.77	PASS
N13	15	5	DFT-16QAM	L	Inner_1RB_Right	23.53	22.38	44.77	PASS
N13	15	5	DFT-64QAM	L	Outer_Full	22.11	20.96	44.77	PASS
N13	15	5	DFT-64QAM	L	Inner_Full	22.21	21.06	44.77	PASS
N13	15	5	DFT-64QAM	L	Inner_1RB_Left	22.23	21.08	44.77	PASS
N13	15	5	DFT-64QAM	L	Inner_1RB_Right	22.15	21	44.77	PASS
N13	15	5	DFT-256QAM	L	Outer_Full	20.07	18.92	44.77	PASS
N13	15	5	DFT-256QAM	L	Inner_Full	20.12	18.97	44.77	PASS
N13	15	5	DFT-256QAM	L	Inner_1RB_Left	19.53	18.38	44.77	PASS
N13	15	5	DFT-256QAM	L	Inner_1RB_Right	19.52	18.37	44.77	PASS
N13	15	5	DFT-PI2BPSK	M	Outer_Full	23.98	22.83	44.77	PASS
N13	15	5	DFT-PI2BPSK	M	Inner_Full	24.62	23.47	44.77	PASS
N13	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	24.53	23.38	44.77	PASS
N13	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	24.44	23.29	44.77	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	23.56	22.41	44.77	PASS
N13	15	5	DFT-QPSK	M	Inner_Full	24.56	23.41	44.77	PASS
N13	15	5	DFT-QPSK	M	Inner_1RB_Left	24.45	23.3	44.77	PASS
N13	15	5	DFT-QPSK	M	Inner_1RB_Right	24.34	23.19	44.77	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	22.55	21.4	44.77	PASS
N13	15	5	DFT-16QAM	M	Inner_Full	23.63	22.48	44.77	PASS
N13	15	5	DFT-16QAM	M	Inner_1RB_Left	23.48	22.33	44.77	PASS
N13	15	5	DFT-16QAM	M	Inner_1RB_Right	23.37	22.22	44.77	PASS
N13	15	5	DFT-64QAM	M	Outer_Full	22.09	20.94	44.77	PASS
N13	15	5	DFT-64QAM	M	Inner_Full	22.18	21.03	44.77	PASS
N13	15	5	DFT-64QAM	M	Inner_1RB_Left	22.23	21.08	44.77	PASS

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N13	15	5	DFT-64QAM	M	Inner_1RB_Right	22.14	20.99	44.77	PASS
N13	15	5	DFT-256QAM	M	Outer_Full	19.98	18.83	44.77	PASS
N13	15	5	DFT-256QAM	M	Inner_Full	20.09	18.94	44.77	PASS
N13	15	5	DFT-256QAM	M	Inner_1RB_Left	19.56	18.41	44.77	PASS
N13	15	5	DFT-256QAM	M	Inner_1RB_Right	19.41	18.26	44.77	PASS
N13	15	5	DFT-PI2BPSK	H	Outer_Full	23.97	22.82	44.77	PASS
N13	15	5	DFT-PI2BPSK	H	Inner_Full	24.54	23.39	44.77	PASS
N13	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	24.47	23.32	44.77	PASS
N13	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	24.44	23.29	44.77	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	23.47	22.32	44.77	PASS
N13	15	5	DFT-QPSK	H	Inner_Full	24.51	23.36	44.77	PASS
N13	15	5	DFT-QPSK	H	Inner_1RB_Left	24.41	23.26	44.77	PASS
N13	15	5	DFT-QPSK	H	Inner_1RB_Right	24.34	23.19	44.77	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	22.49	21.34	44.77	PASS
N13	15	5	DFT-16QAM	H	Inner_Full	23.57	22.42	44.77	PASS
N13	15	5	DFT-16QAM	H	Inner_1RB_Left	23.42	22.27	44.77	PASS
N13	15	5	DFT-16QAM	H	Inner_1RB_Right	23.30	22.15	44.77	PASS
N13	15	5	DFT-64QAM	H	Outer_Full	21.96	20.81	44.77	PASS
N13	15	5	DFT-64QAM	H	Inner_Full	22.10	20.95	44.77	PASS
N13	15	5	DFT-64QAM	H	Inner_1RB_Left	22.17	21.02	44.77	PASS
N13	15	5	DFT-64QAM	H	Inner_1RB_Right	22.11	20.96	44.77	PASS
N13	15	5	DFT-256QAM	H	Outer_Full	19.89	18.74	44.77	PASS
N13	15	5	DFT-256QAM	H	Inner_Full	19.99	18.84	44.77	PASS
N13	15	5	DFT-256QAM	H	Inner_1RB_Left	19.48	18.33	44.77	PASS
N13	15	5	DFT-256QAM	H	Inner_1RB_Right	19.36	18.21	44.77	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	24.03	22.88	44.77	PASS
N13	15	10	DFT-PI2BPSK	M	Inner_Full	24.58	23.43	44.77	PASS
N13	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	24.80	23.65	44.77	PASS
N13	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	24.59	23.44	44.77	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	23.57	22.42	44.77	PASS
N13	15	10	DFT-QPSK	M	Inner_Full	24.67	23.52	44.77	PASS
N13	15	10	DFT-QPSK	M	Inner_1RB_Left	24.59	23.44	44.77	PASS
N13	15	10	DFT-QPSK	M	Inner_1RB_Right	24.39	23.24	44.77	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	22.55	21.4	44.77	PASS
N13	15	10	DFT-16QAM	M	Inner_Full	23.69	22.54	44.77	PASS
N13	15	10	DFT-16QAM	M	Inner_1RB_Left	23.47	22.32	44.77	PASS
N13	15	10	DFT-16QAM	M	Inner_1RB_Right	23.39	22.24	44.77	PASS
N13	15	10	DFT-64QAM	M	Outer_Full	22.14	20.99	44.77	PASS
N13	15	10	DFT-64QAM	M	Inner_Full	22.11	20.96	44.77	PASS
N13	15	10	DFT-64QAM	M	Inner_1RB_Left	22.30	21.15	44.77	PASS
N13	15	10	DFT-64QAM	M	Inner_1RB_Right	22.26	21.11	44.77	PASS
N13	15	10	DFT-256QAM	M	Outer_Full	20.04	18.89	44.77	PASS
N13	15	10	DFT-256QAM	M	Inner_Full	20.01	18.86	44.77	PASS
N13	15	10	DFT-256QAM	M	Inner_1RB_Left	19.60	18.45	44.77	PASS
N13	15	10	DFT-256QAM	M	Inner_1RB_Right	19.49	18.34	44.77	PASS

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Peak-to-Average Ratio for SA

Peak-to-Average Ratio(CCDF)

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N13	15	10	DFT-256QAM	M	Outer_Full	6.66	≤13	PASS
N13	15	10	CP-256QAM	M	Outer_Full	8.58	≤13	PASS

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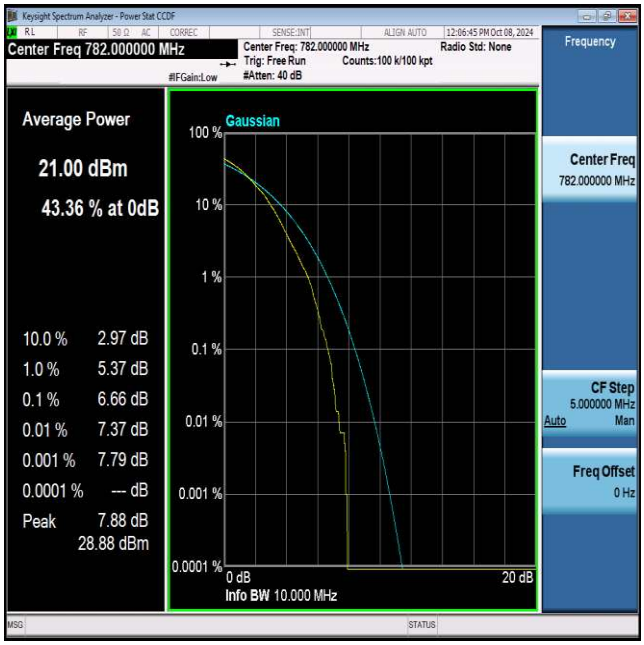
Test Graphs



NTNV_N13_PC3_15_10_M_TID5_#1

NTNV_N13_PC3_15_10_M_TID9_#1

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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-PI2BPSK	L	Outer_Full	4.4648	4.969	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	4.4653	5.003	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	4.4719	5.000	PASS
N13	15	5	DFT-64QAM	L	Outer_Full	4.4687	4.993	PASS
N13	15	5	DFT-256QAM	L	Outer_Full	4.4721	5.062	PASS
N13	15	5	CP-QPSK	L	Outer_Full	4.4650	5.118	PASS
N13	15	5	CP-16QAM	L	Outer_Full	4.5081	5.198	PASS
N13	15	5	CP-64QAM	L	Outer_Full	4.4788	5.122	PASS
N13	15	5	CP-256QAM	L	Outer_Full	4.4772	5.174	PASS
N13	15	5	DFT-PI2BPSK	M	Outer_Full	4.4700	5.002	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	4.4718	4.970	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	4.4825	5.074	PASS
N13	15	5	DFT-64QAM	M	Outer_Full	4.4764	5.000	PASS
N13	15	5	DFT-256QAM	M	Outer_Full	4.4876	5.000	PASS
N13	15	5	CP-QPSK	M	Outer_Full	4.5038	5.200	PASS
N13	15	5	CP-16QAM	M	Outer_Full	4.4910	5.154	PASS
N13	15	5	CP-64QAM	M	Outer_Full	4.4982	5.147	PASS
N13	15	5	CP-256QAM	M	Outer_Full	4.4836	5.160	PASS
N13	15	5	DFT-PI2BPSK	H	Outer_Full	4.4640	5.051	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	4.4600	4.944	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	4.4777	5.015	PASS
N13	15	5	DFT-64QAM	H	Outer_Full	4.4661	4.976	PASS
N13	15	5	DFT-256QAM	H	Outer_Full	4.4676	5.005	PASS
N13	15	5	CP-QPSK	H	Outer_Full	4.4637	5.067	PASS
N13	15	5	CP-16QAM	H	Outer_Full	4.4811	5.107	PASS
N13	15	5	CP-64QAM	H	Outer_Full	4.4750	5.050	PASS
N13	15	5	CP-256QAM	H	Outer_Full	4.4804	5.099	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	8.8948	9.607	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	8.9051	9.554	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	8.9486	9.644	PASS
N13	15	10	DFT-64QAM	M	Outer_Full	8.9457	9.541	PASS
N13	15	10	DFT-256QAM	M	Outer_Full	8.9127	9.511	PASS
N13	15	10	CP-QPSK	M	Outer_Full	9.2688	10.06	PASS
N13	15	10	CP-16QAM	M	Outer_Full	9.2630	10.03	PASS
N13	15	10	CP-64QAM	M	Outer_Full	9.2609	9.987	PASS
N13	15	10	CP-256QAM	M	Outer_Full	9.2829	10.01	PASS

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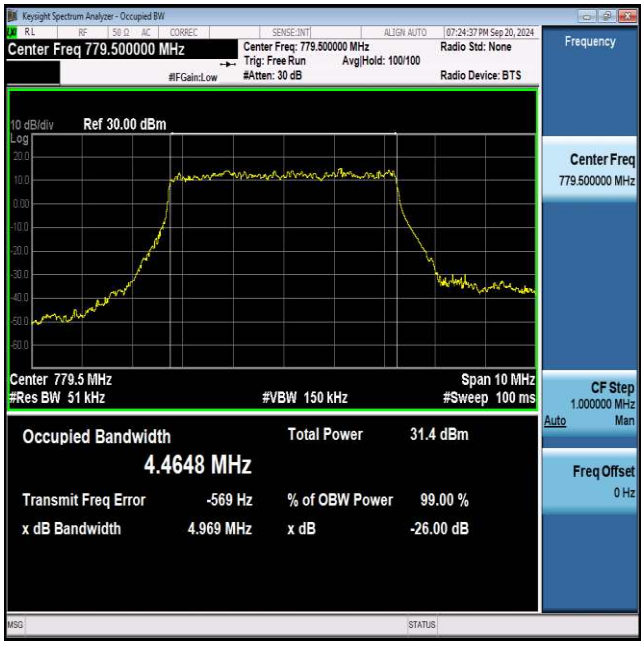
Test Graphs



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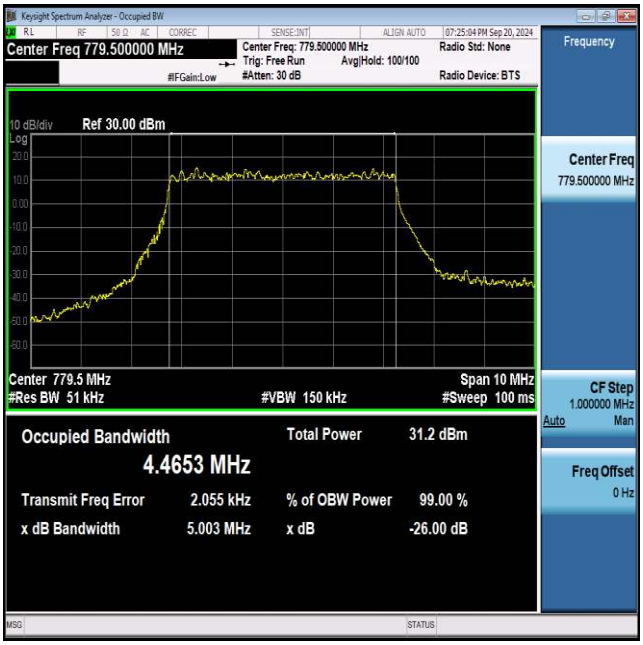

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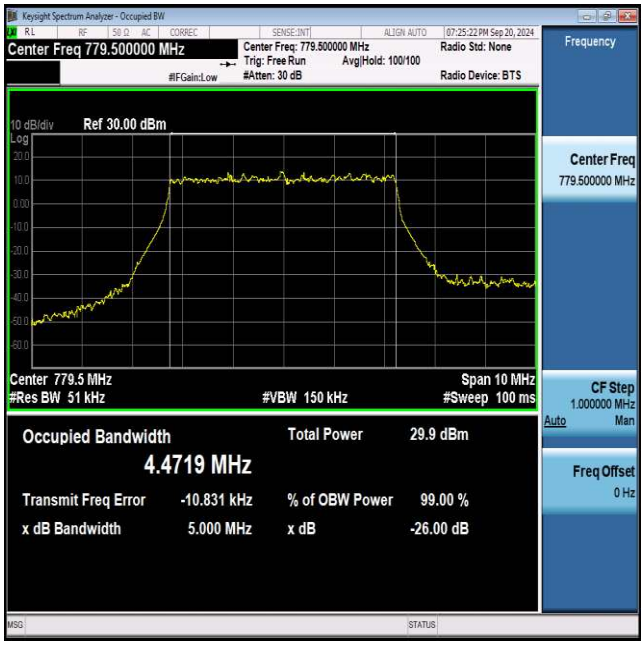

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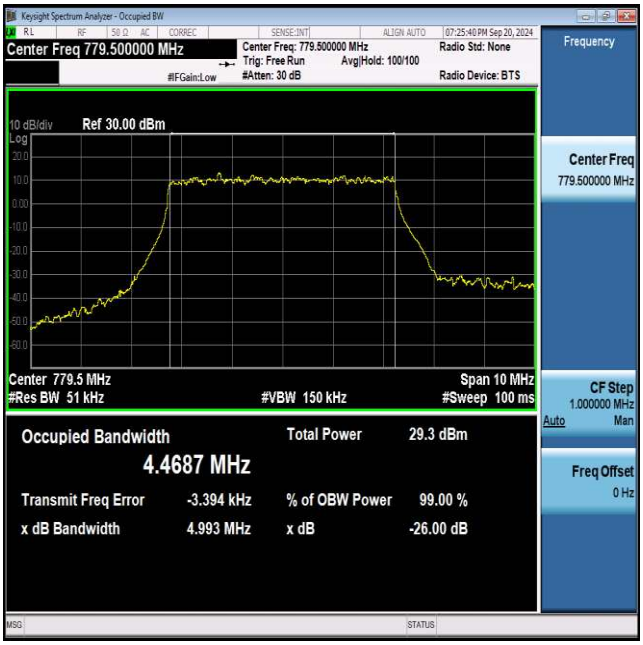

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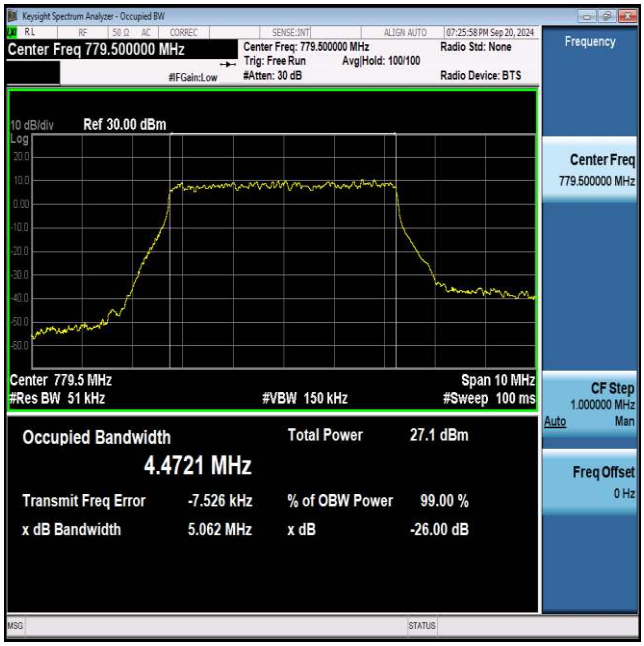

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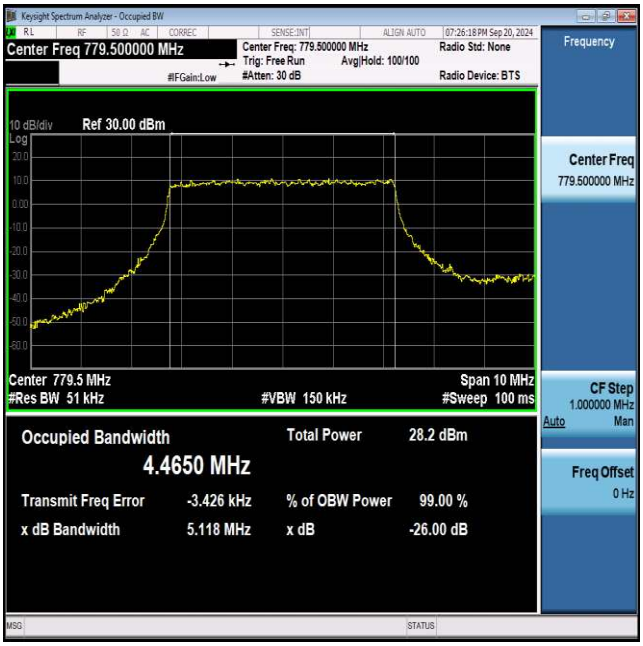

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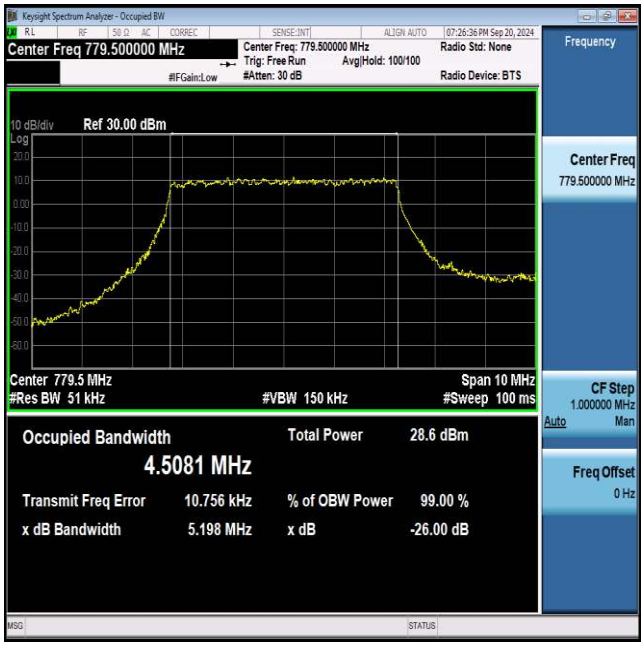

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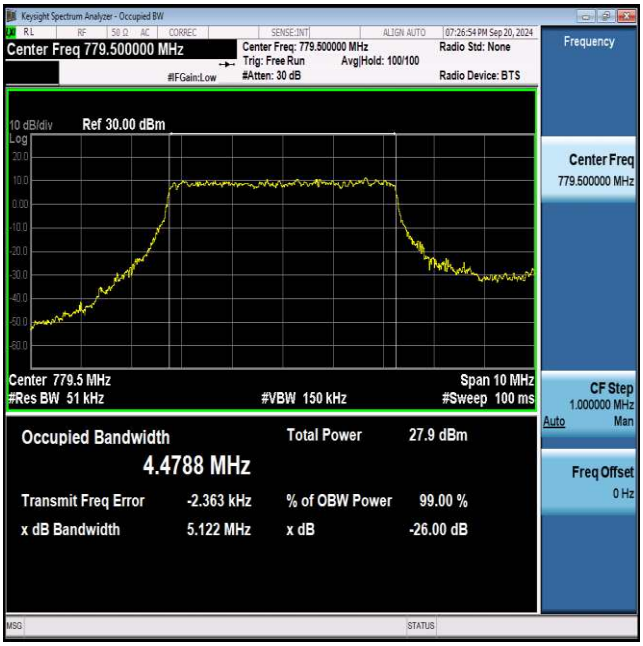

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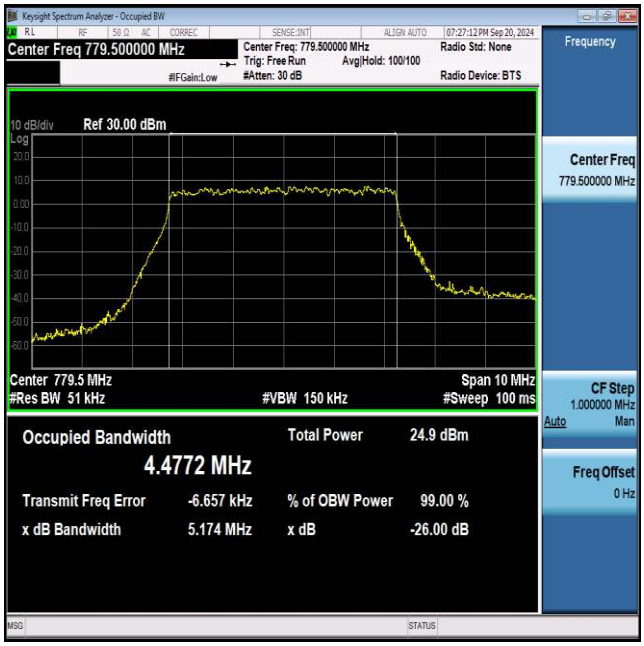

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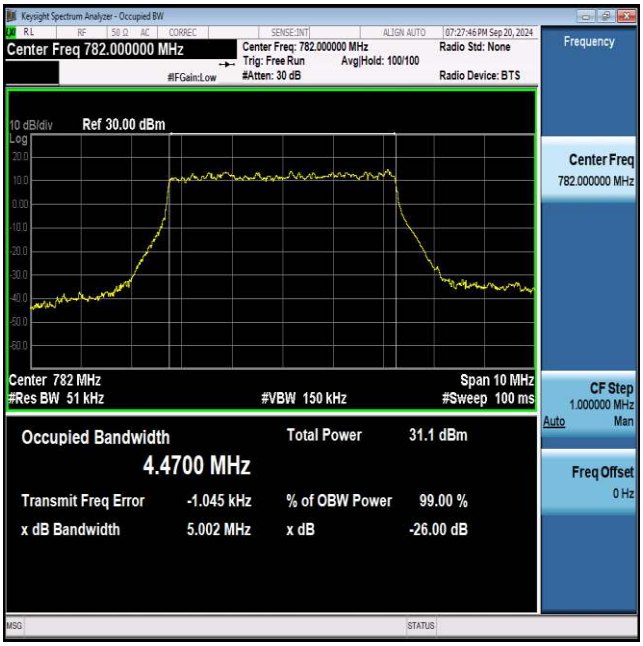

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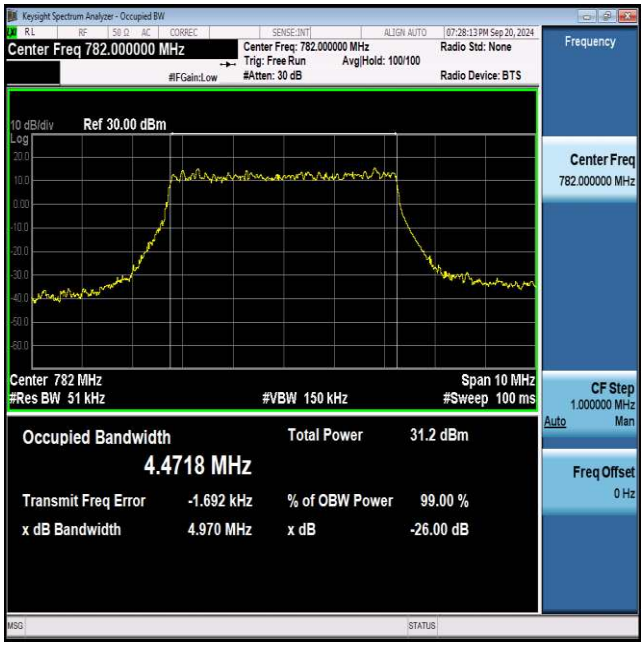

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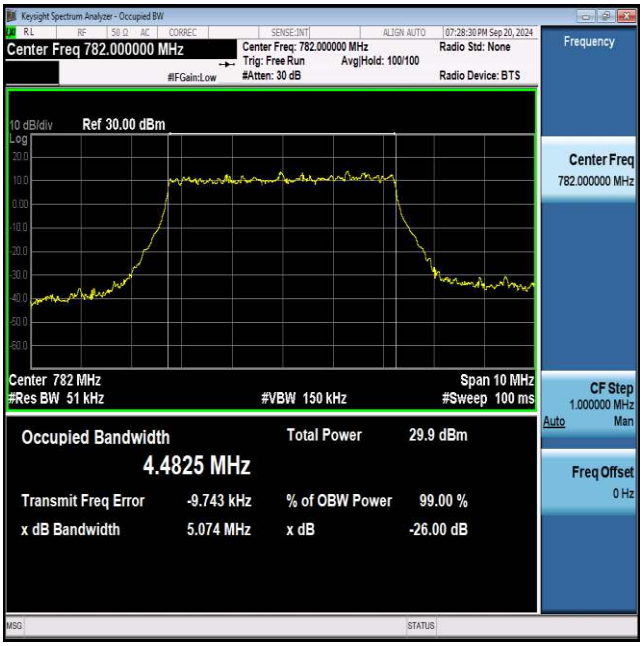

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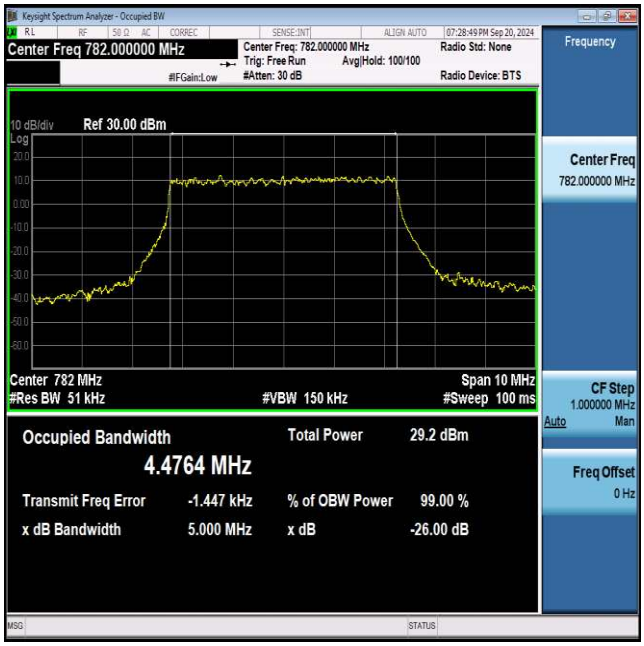

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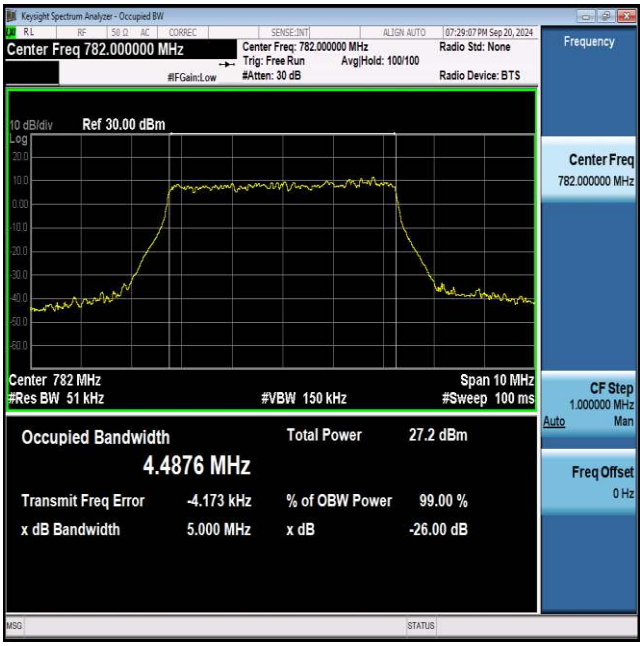

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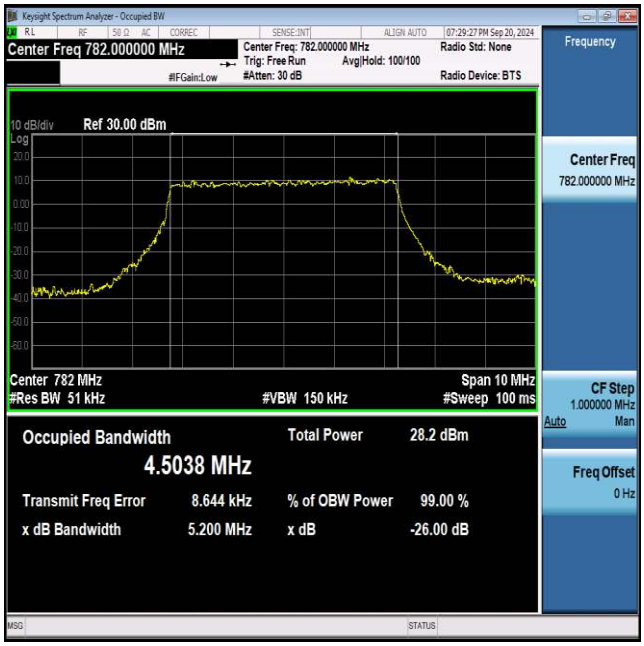

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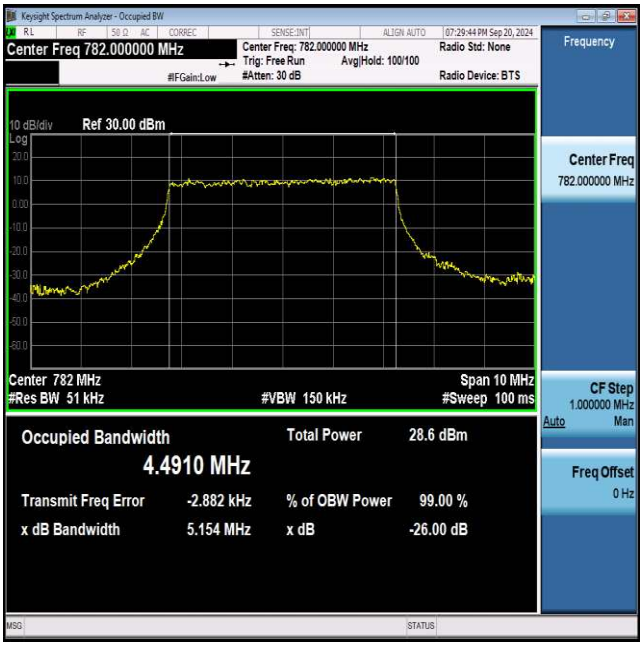

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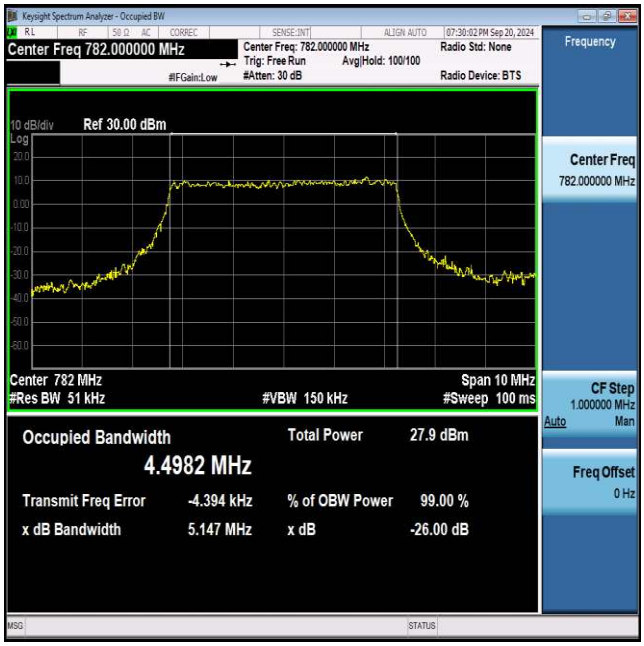

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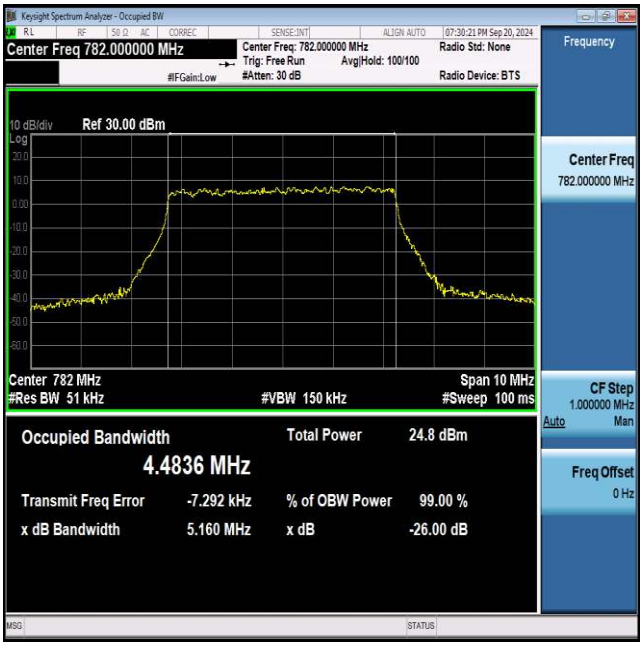

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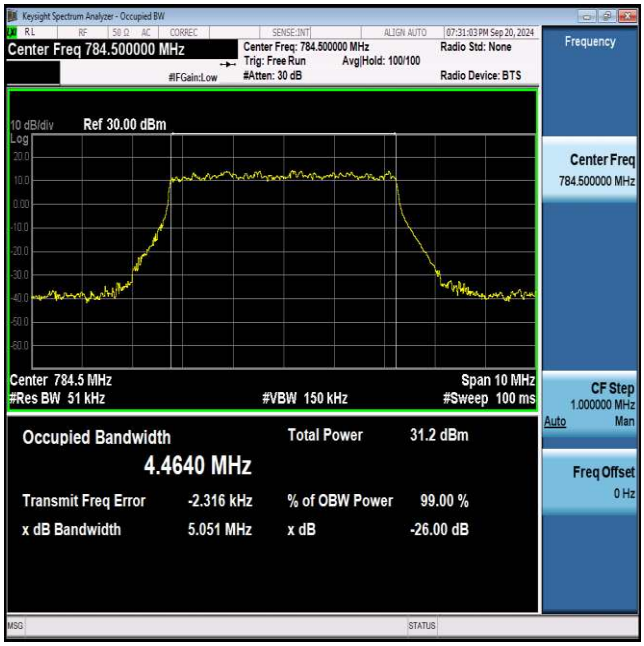

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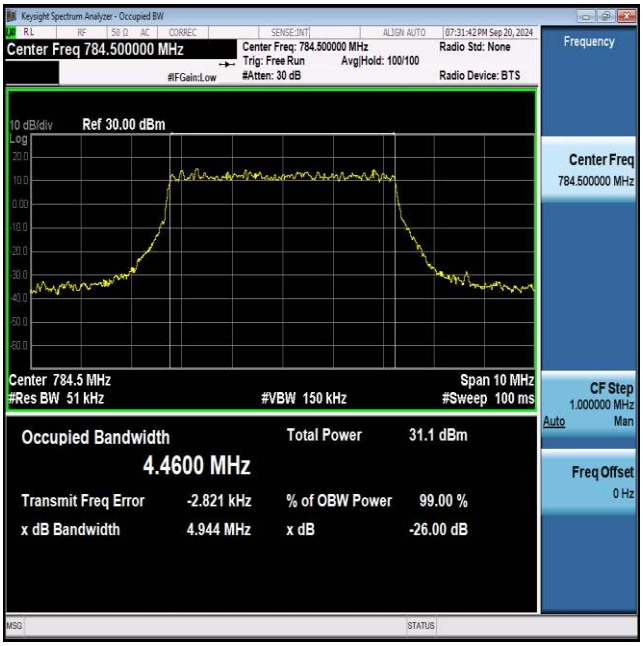

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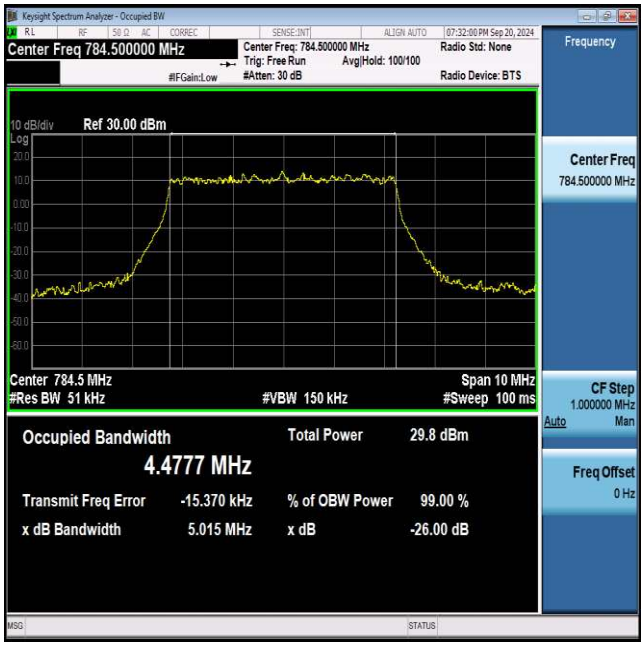

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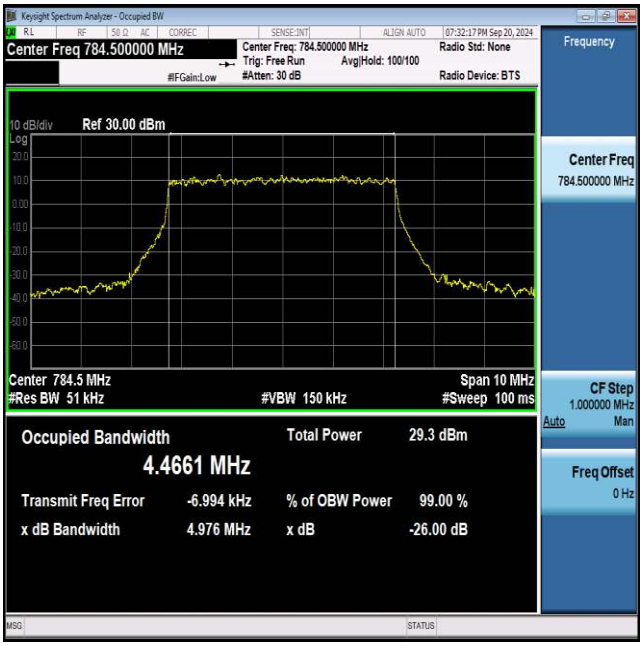

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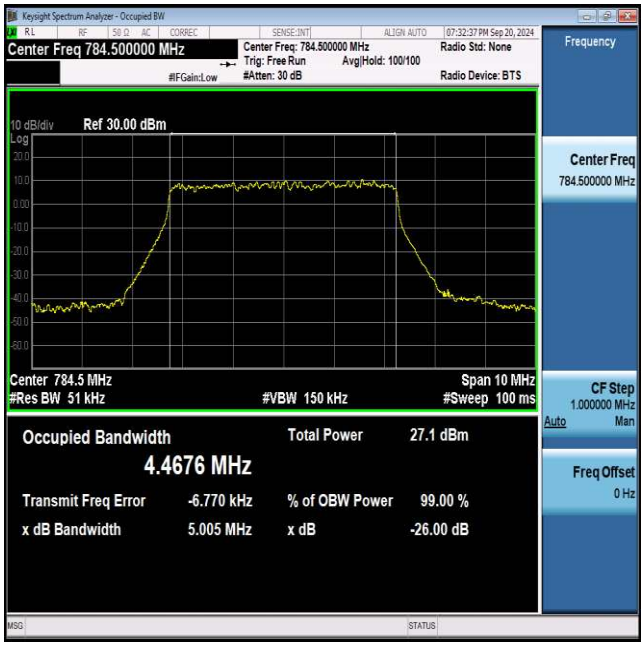

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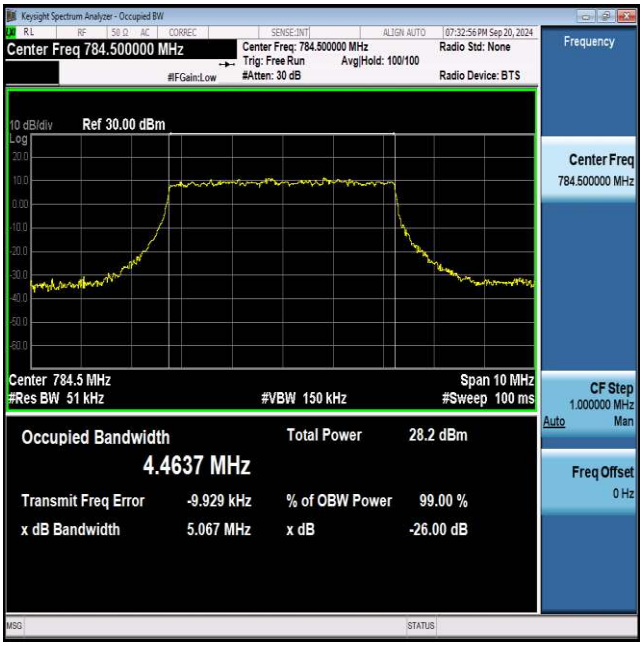

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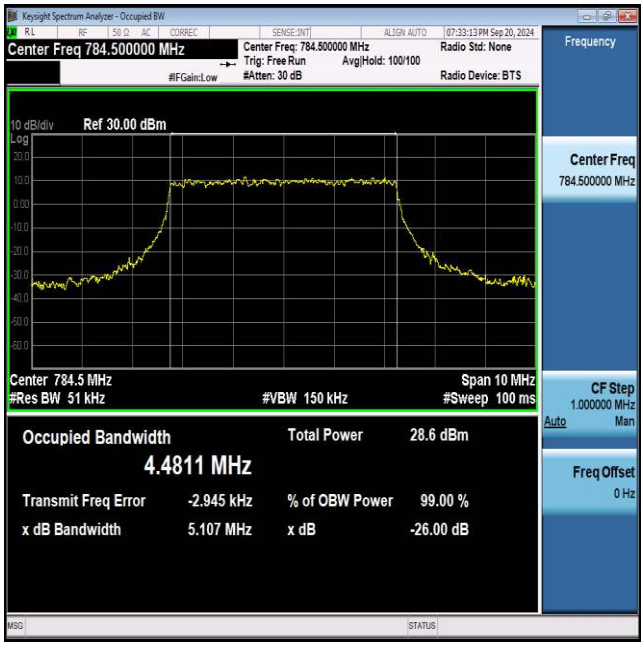

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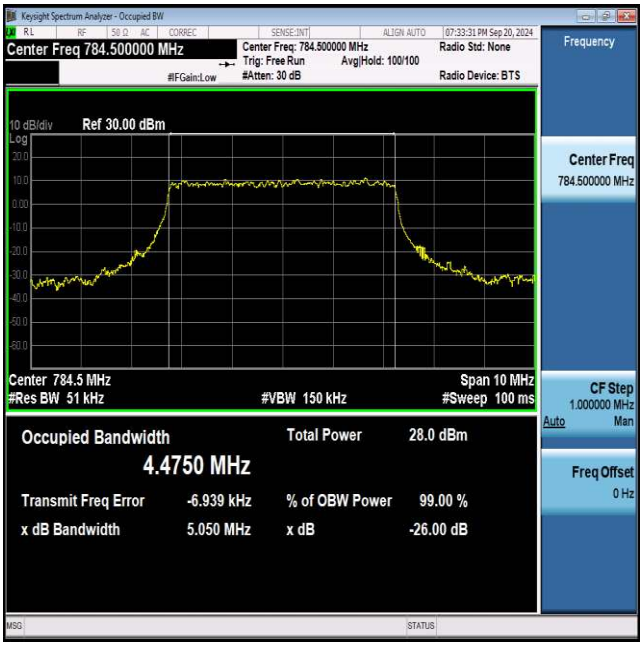

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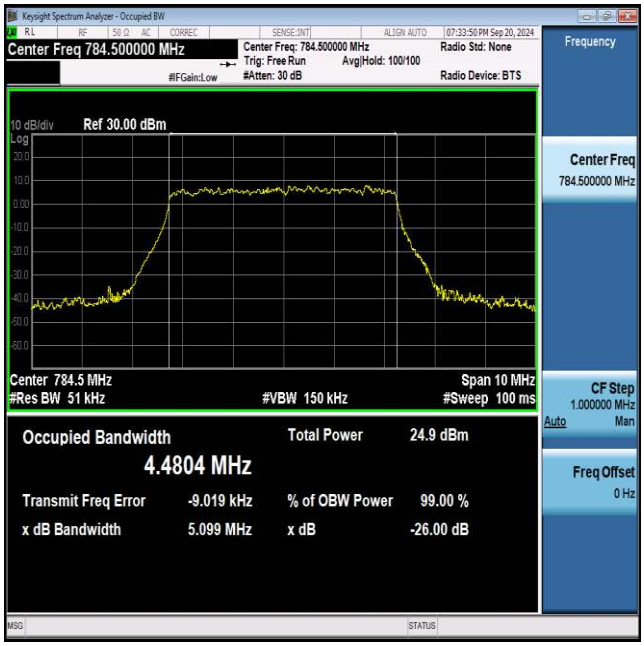

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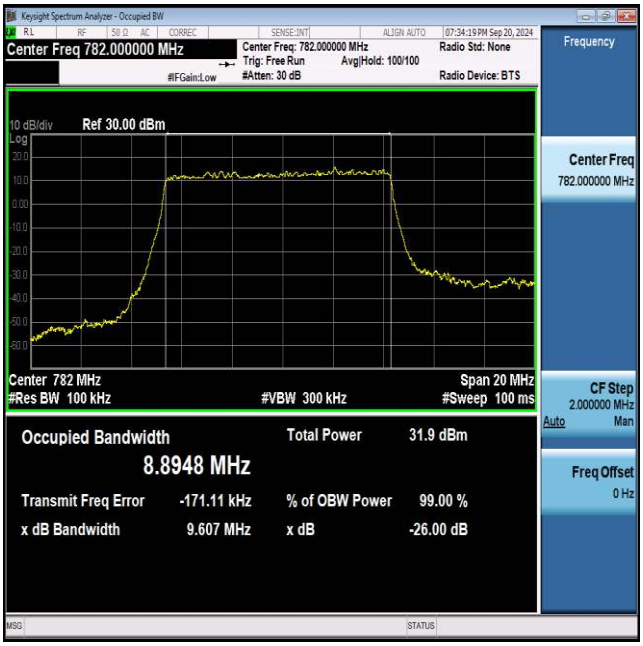

NTNV_N13_PC3_15_10_M_TID1_Ant1#1

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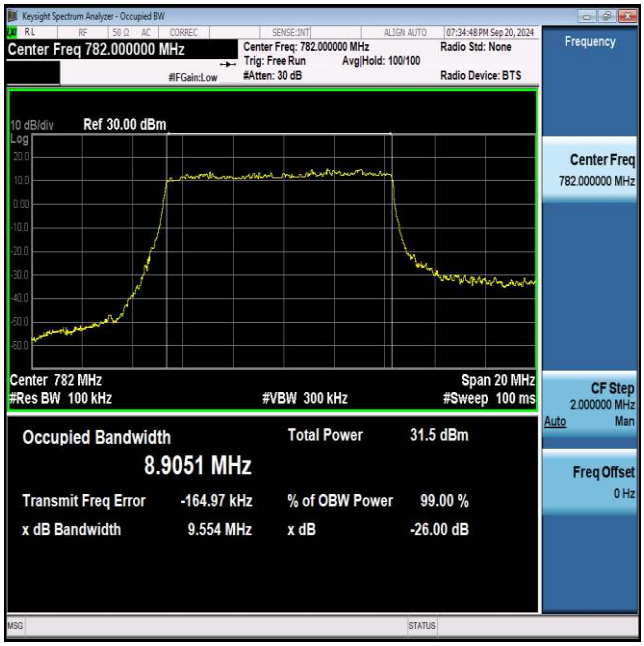

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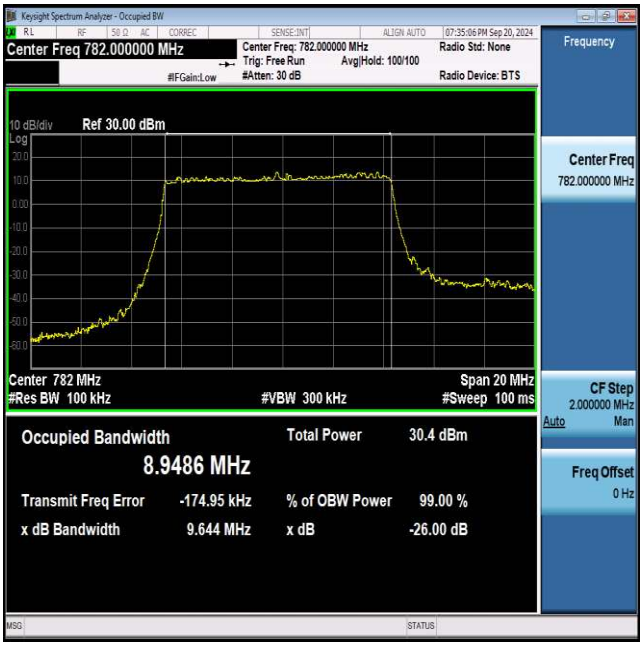

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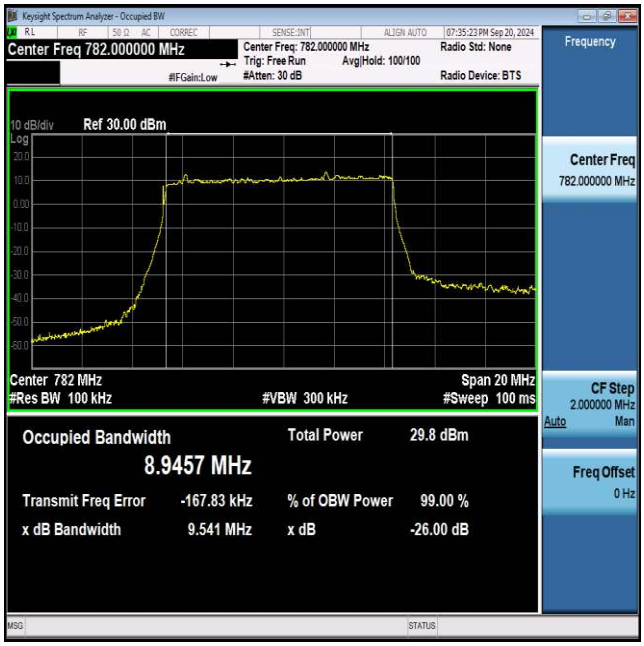

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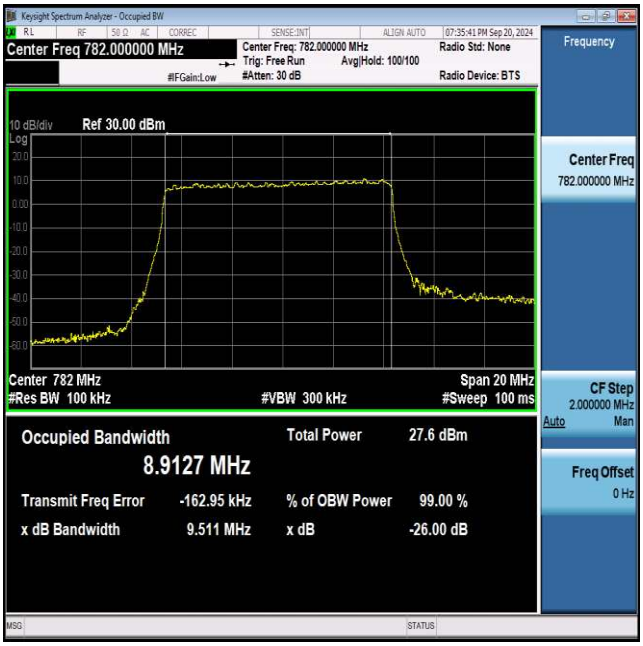

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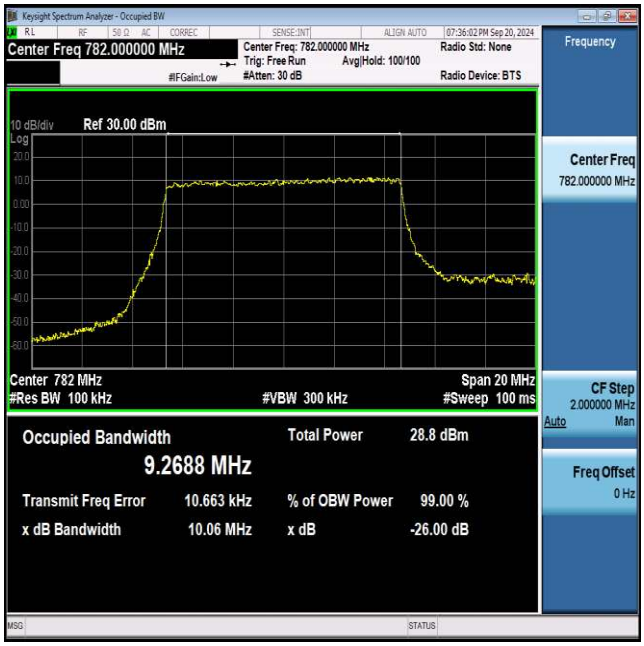

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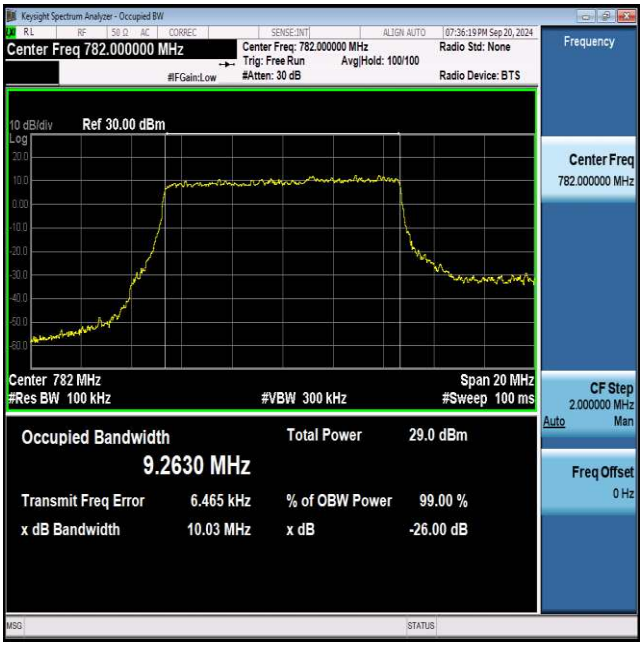

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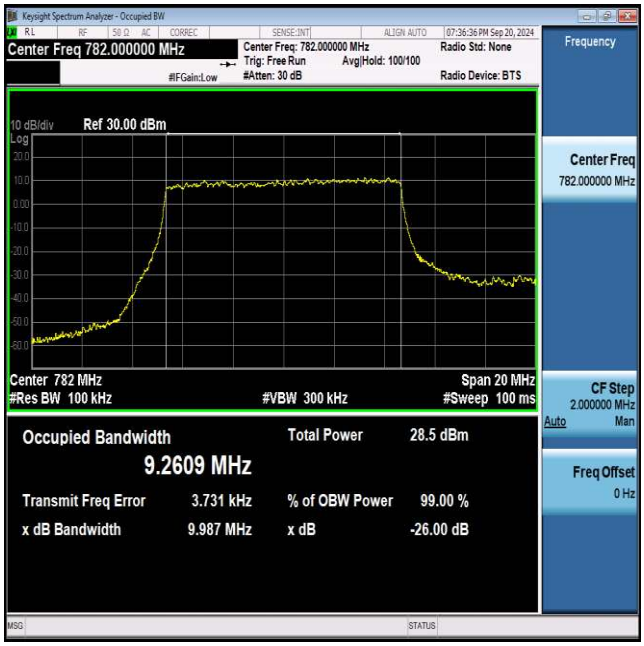

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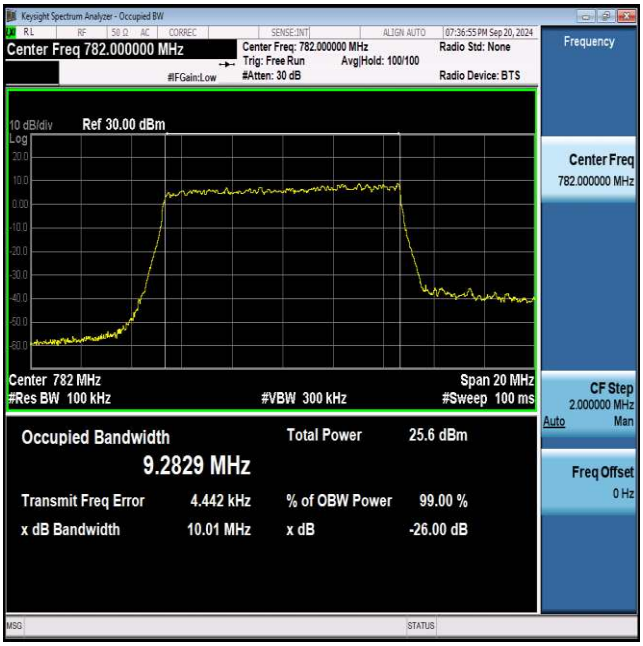

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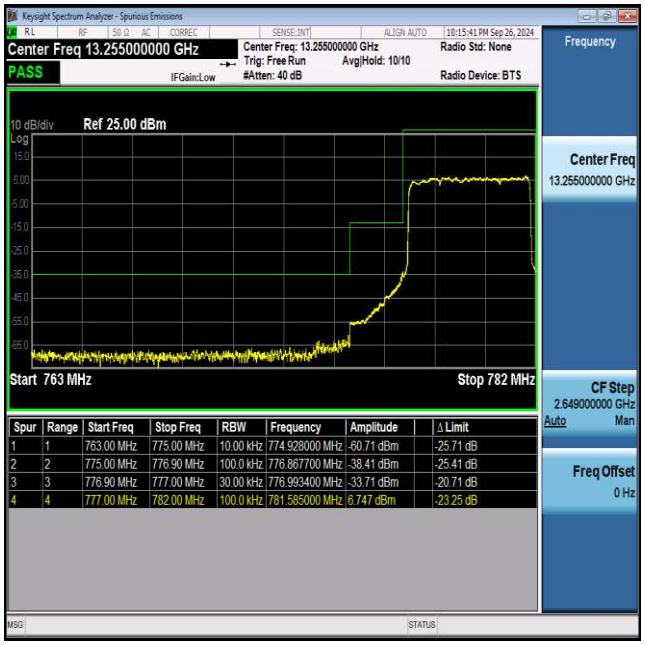
Band Edge for SA

Test Graphs



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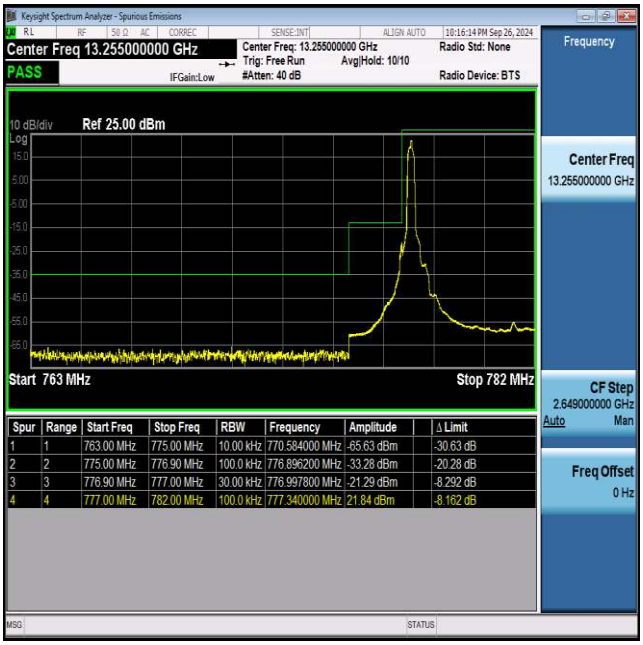

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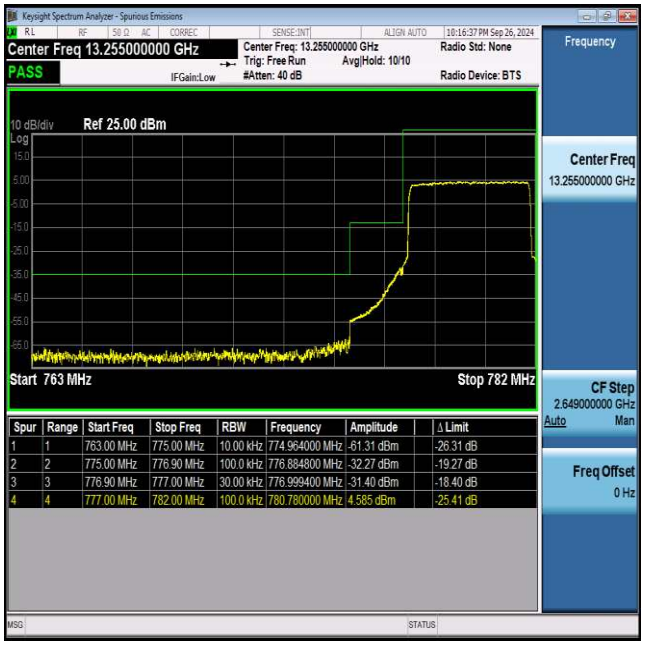

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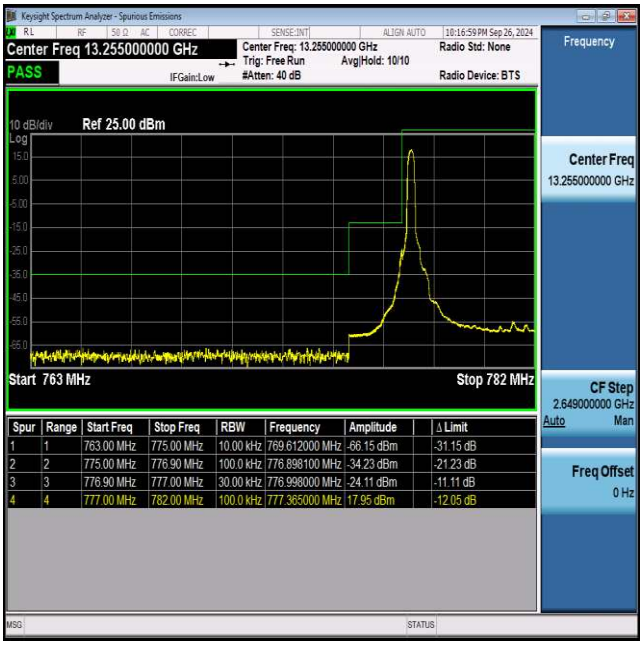

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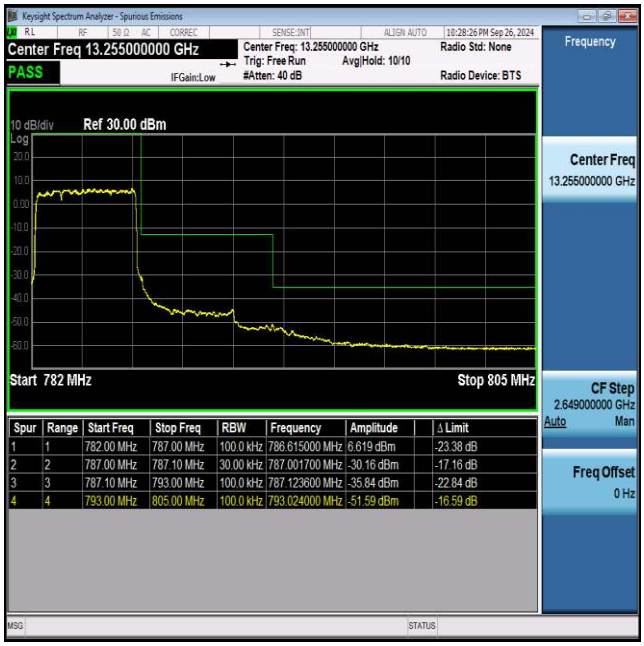

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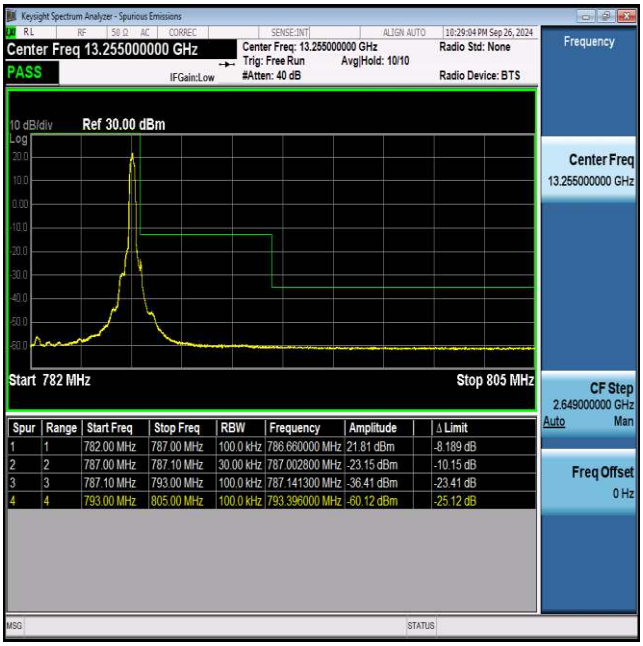

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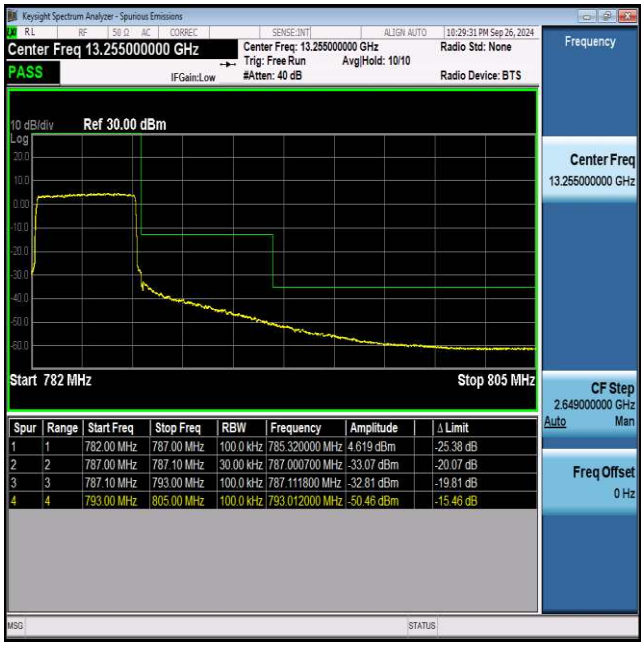

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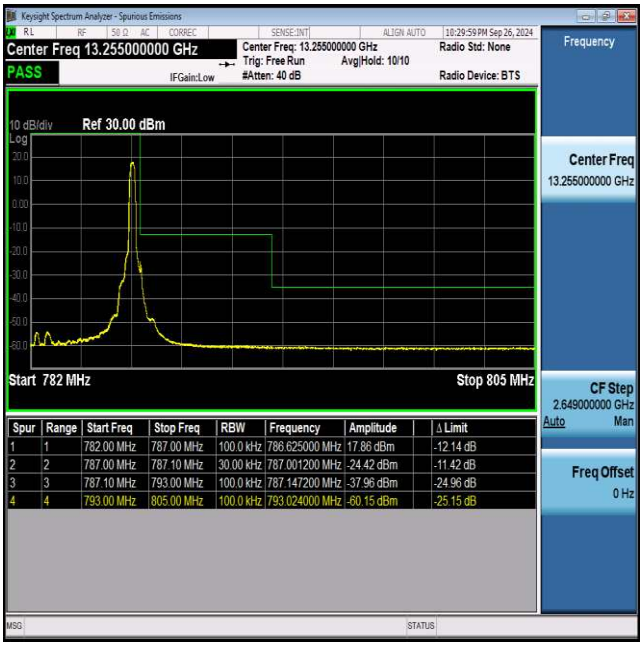

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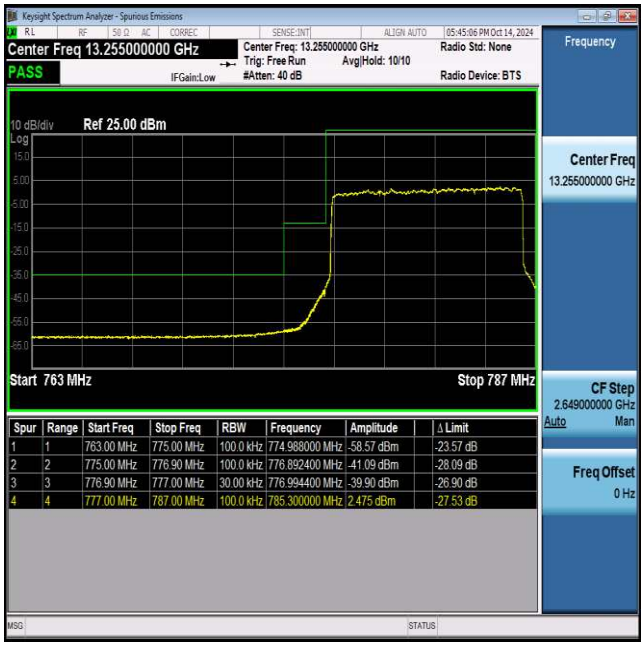

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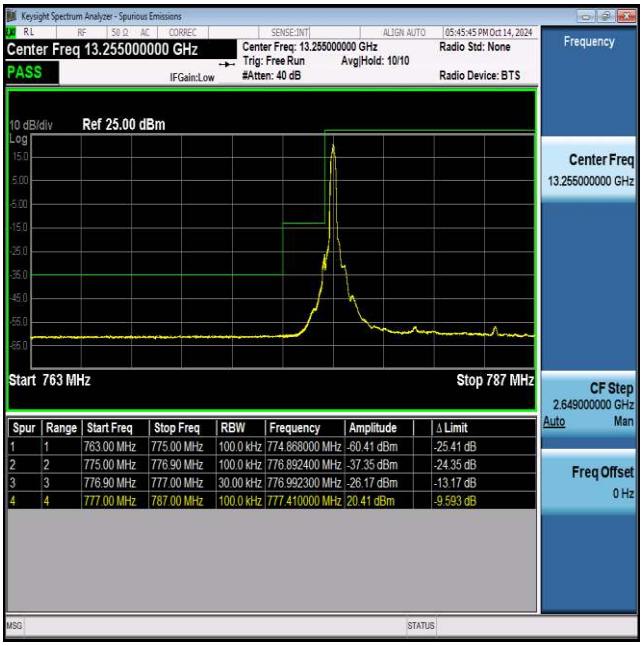

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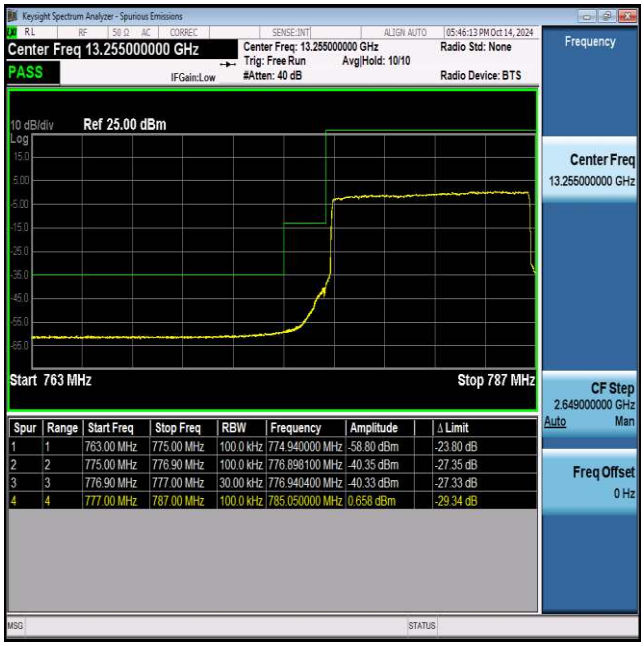

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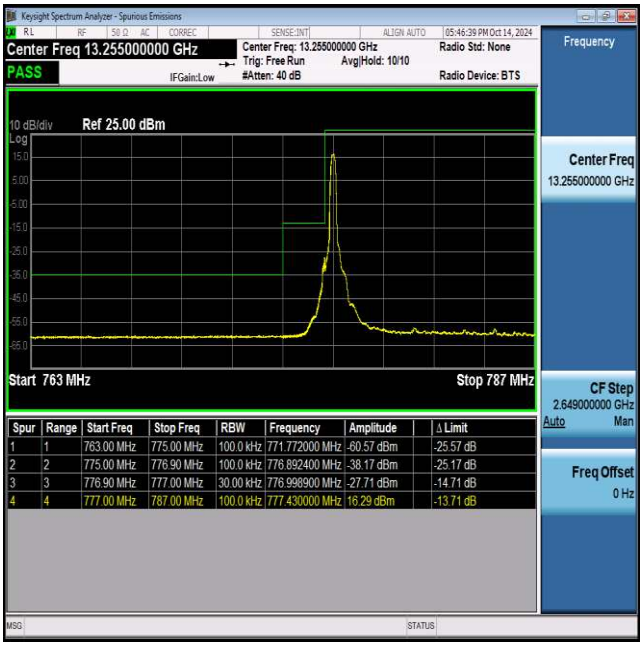

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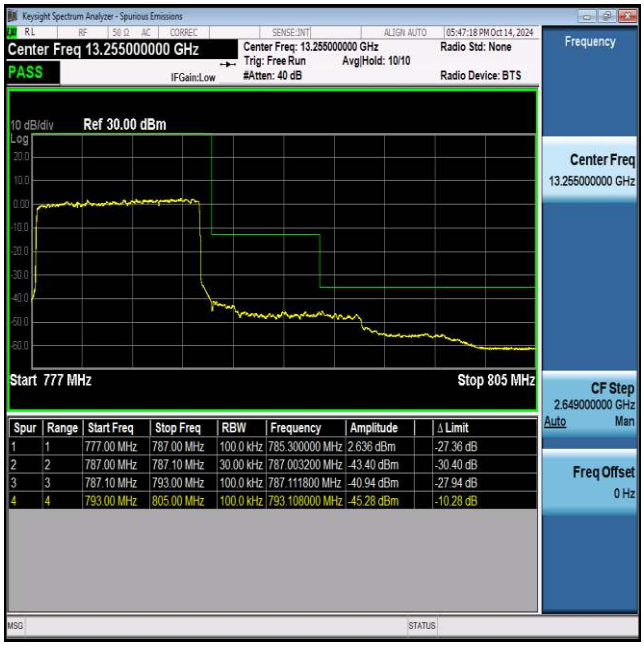

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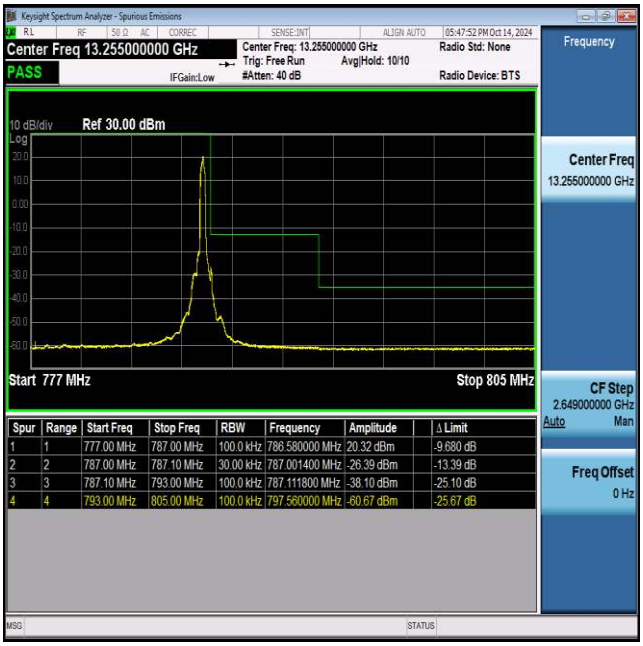

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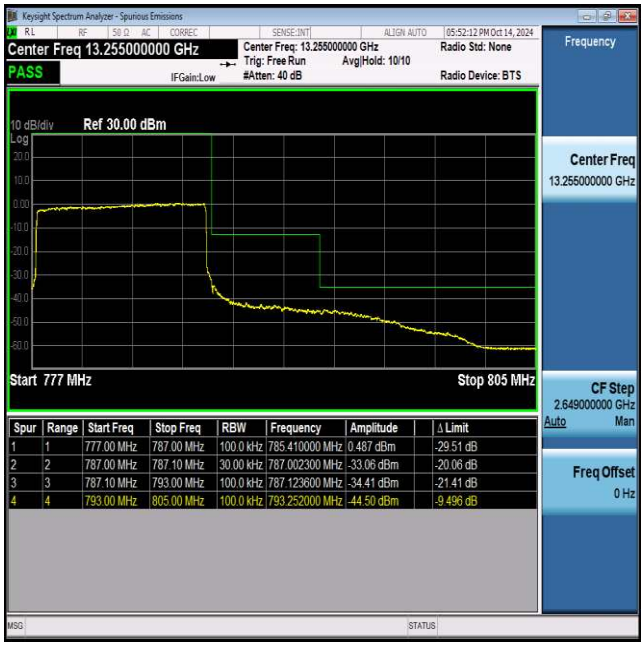

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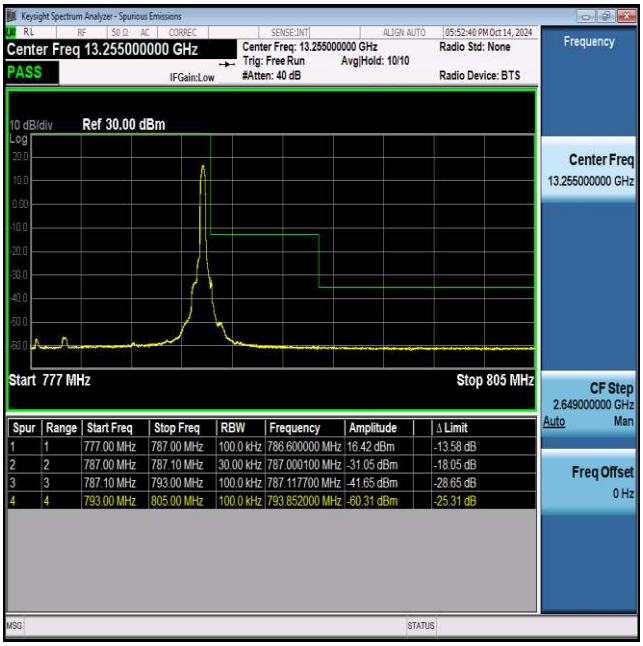

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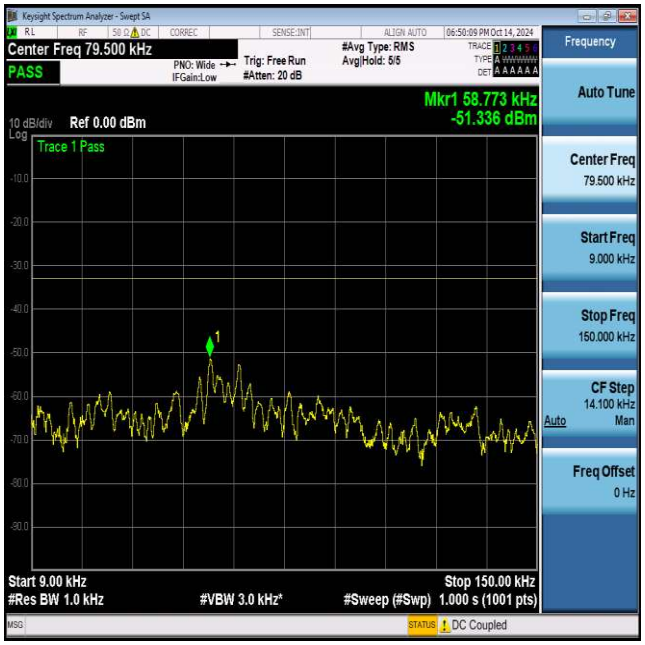
Conducted Spurious Emission for SA

Test Graphs



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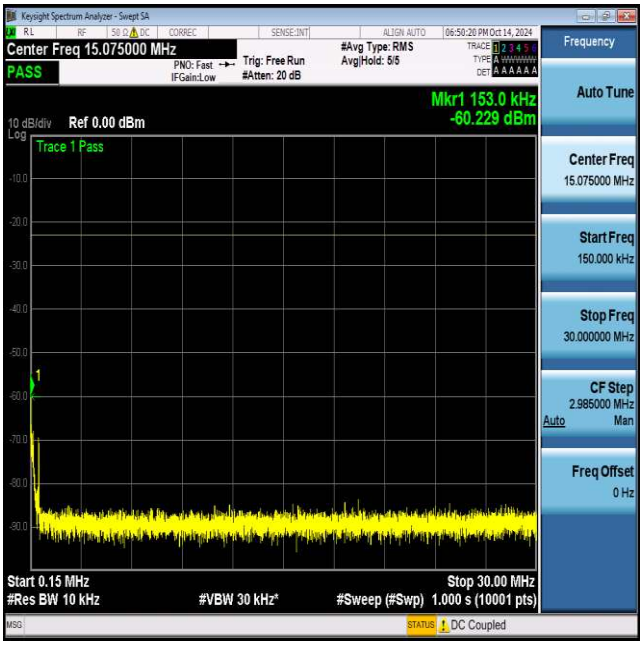

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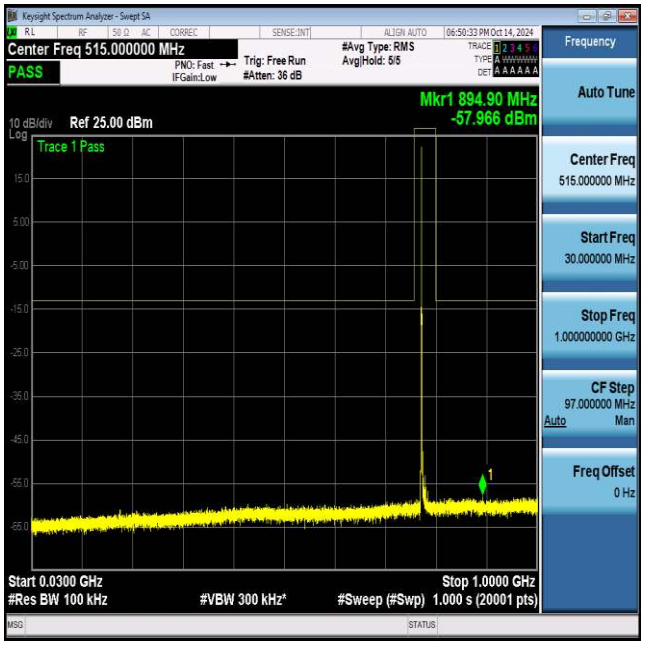

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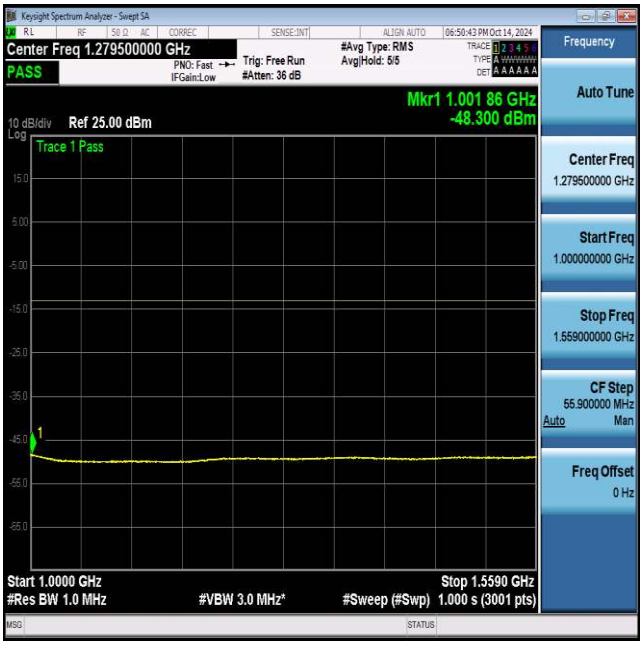

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NTNV_N13_PC3_15_10_M_TID2_NS_01_1559_1610_#1

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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-PI2BPSK	M	Outer_Full	VL	NT	-2.700000	-0.003453	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	0.700000	0.000895	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	1.100000	0.001407	PASS
N13	15	10	CP-QPSK	M	Outer_Full	VL	NT	-2.800000	-0.003581	PASS
N13	15	10	CP-QPSK	M	Outer_Full	VN	NT	2.000000	0.002558	PASS
N13	15	10	CP-QPSK	M	Outer_Full	VH	NT	4.600000	0.005882	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temp	Deviation (Hz)	Deviation (ppm)	Verdict
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	-1.900000	-0.002430	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	-1.600000	-0.002046	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	-3.500000	-0.004476	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	0	-2.600000	-0.003325	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	10	-3.400000	-0.004348	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	20	-7.100000	-0.009079	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	30	-2.900000	-0.003708	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	40	-1.600000	-0.002046	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	50	-4.099999	-0.005243	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	-30	3.600000	0.004604	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	-20	2.000000	0.002558	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	-10	1.800000	0.002302	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	0	1.800000	0.002302	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	10	2.200000	0.002813	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	20	1.800000	0.002302	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	30	3.100000	0.003963	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	40	-1.400000	-0.001790	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	50	2.500000	0.003197	PASS

~The End~

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