Appendix for 66A_N5A

Product Name: Smart Phone

Model No: K50

Appendix A: Average Power Output

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	Power Class	Verdict
DC_66A_n5A	15	5+5	DFT-QPSK	M+L	Outer_Full	22.20	PC3	PASS
DC_66A_n5A	15	5+5	DFT-QPSK	M+L	Inner_Full	23.29	PC3	PASS
DC_66A_n5A	15	5+5	DFT-QPSK	M+L	Edge_1RB_Left	22.33	PC3	PASS
DC_66A_n5A	15	5+5	DFT-QPSK	M+L	Edge_1RB_Right	22.23	PC3	PASS
DC_66A_n5A	15	5+5	DFT-16QAM	M+L	Outer_Full	21.34	PC3	PASS
DC_66A_n5A	15	5+5	DFT-16QAM	M+L	Inner_Full	22.18	PC3	PASS
DC_66A_n5A	15	5+5	DFT-16QAM	M+L	Edge_1RB_Left	21.49	PC3	PASS
DC_66A_n5A	15	5+5	DFT-16QAM	M+L	Edge_1RB_Right	21.41	PC3	PASS
DC_66A_n5A	15	5+5	DFT-QPSK	M+M	Outer_Full	22.07	PC3	PASS
DC_66A_n5A	15	5+5	DFT-QPSK	M+M	Inner_Full	23.26	PC3	PASS
DC_66A_n5A	15	5+5	DFT-QPSK	M+M	Edge_1RB_Left	22.27	PC3	PASS
DC_66A_n5A	15	5+5	DFT-QPSK	M+M	Edge_1RB_Right	22.47	PC3	PASS
DC_66A_n5A	15	5+5	DFT-16QAM	M+M	Outer_Full	21.27	PC3	PASS
DC_66A_n5A	15	5+5	DFT-16QAM	M+M	Inner_Full	22.28	PC3	PASS
DC_66A_n5A	15	5+5	DFT-16QAM	M+M	Edge_1RB_Left	21.21	PC3	PASS
DC_66A_n5A	15	5+5	DFT-16QAM	M+M	Edge_1RB_Right	21.58	PC3	PASS
DC_66A_n5A	15	5+5	DFT-QPSK	M+H	Outer_Full	22.32	PC3	PASS
DC_66A_n5A	15	5+5	DFT-QPSK	M+H	Inner_Full	23.34	PC3	PASS
DC_66A_n5A	15	5+5	DFT-QPSK	M+H	Edge_1RB_Left	22.46	PC3	PASS
DC_66A_n5A	15	5+5	DFT-QPSK	M+H	Edge_1RB_Right	22.42	PC3	PASS
DC_66A_n5A	15	5+5	DFT-16QAM	M+H	Outer_Full	21.44	PC3	PASS
DC_66A_n5A	15	5+5	DFT-16QAM	M+H	Inner_Full	22.26	PC3	PASS
DC_66A_n5A	15	5+5	DFT-16QAM	M+H	Edge_1RB_Left	21.50	PC3	PASS
DC_66A_n5A	15	5+5	DFT-16QAM	M+H	Edge_1RB_Right	20.96	PC3	PASS
DC_66A_n5A	15	5+10	DFT-QPSK	M+L	Outer_Full	22.23	PC3	PASS
DC_66A_n5A	15	5+10	DFT-QPSK	M+L	Inner_Full	23.22	PC3	PASS
DC_66A_n5A	15	5+10	DFT-QPSK	M+L	Edge_1RB_Left	22.32	PC3	PASS
DC_66A_n5A	15	5+10	DFT-QPSK	M+L	Edge_1RB_Right	22.14	PC3	PASS
DC_66A_n5A	15	5+10	DFT-16QAM	M+L	Outer_Full	21.31	PC3	PASS
DC_66A_n5A	15	5+10	DFT-16QAM	M+L	Inner_Full	22.38	PC3	PASS
DC_66A_n5A	15	5+10	DFT-16QAM	M+L	Edge_1RB_Left	21.26	PC3	PASS
DC_66A_n5A	15	5+10	DFT-16QAM	M+L	Edge_1RB_Right	21.19	PC3	PASS
DC_66A_n5A	15	5+10	DFT-QPSK	M+M	Outer_Full	22.31	PC3	PASS
DC_66A_n5A	15	5+10	DFT-QPSK	M+M	Inner_Full	23.18	PC3	PASS
DC_66A_n5A	15	5+10	DFT-QPSK	M+M	Edge_1RB_Left	22.13	PC3	PASS

DC_66A_n5A	15	5+10	DFT-QPSK	M+M	Edge_1RB_Right	22.43	PC3	PASS
DC_66A_n5A	15	5+10	DFT-16QAM	M+M	Outer_Full	21.28	PC3	PASS
DC_66A_n5A	15	5+10	DFT-16QAM	M+M	Inner_Full	22.29	PC3	PASS
DC_66A_n5A	15	5+10	DFT-16QAM	M+M	Edge_1RB_Left	21.14	PC3	PASS
DC_66A_n5A	15	5+10	DFT-16QAM	M+M	Edge_1RB_Right	21.55	PC3	PASS
DC_66A_n5A	15	5+10	DFT-QPSK	M+H	Outer_Full	22.56	PC3	PASS
DC_66A_n5A	15	5+10	DFT-QPSK	M+H	Inner_Full	23.53	PC3	PASS
DC_66A_n5A	15	5+10	DFT-QPSK	M+H	Edge_1RB_Left	22.52	PC3	PASS
DC_66A_n5A	15	5+10	DFT-QPSK	M+H	Edge_1RB_Right	22.41	PC3	PASS
DC_66A_n5A	15	5+10	DFT-16QAM	M+H	Outer_Full	21.55	PC3	PASS
DC_66A_n5A	15	5+10	DFT-16QAM	M+H	Inner_Full	22.58	PC3	PASS
DC_66A_n5A	15	5+10	DFT-16QAM	M+H	Edge_1RB_Left	21.47	PC3	PASS
DC_66A_n5A	15	5+10	DFT-16QAM	M+H	Edge_1RB_Right	20.88	PC3	PASS
DC_66A_n5A	15	5+15	DFT-QPSK	M+L	Outer_Full	22.42	PC3	PASS
DC_66A_n5A	15	5+15	DFT-QPSK	M+L	Inner_Full	23.37	PC3	PASS
DC_66A_n5A	15	5+15	DFT-QPSK	M+L	Edge_1RB_Left	22.46	PC3	PASS
DC_66A_n5A	15	5+15	DFT-QPSK	M+L	Edge_1RB_Right	22.46	PC3	PASS
DC_66A_n5A	15	5+15	DFT-16QAM	M+L	Outer_Full	21.35	PC3	PASS
DC_66A_n5A	15	5+15	DFT-16QAM	M+L	Inner_Full	22.29	PC3	PASS
DC_66A_n5A	15	5+15	DFT-16QAM	M+L	Edge_1RB_Left	21.16	PC3	PASS
DC_66A_n5A	15	5+15	DFT-16QAM	M+L	Edge_1RB_Right	21.56	PC3	PASS
DC_66A_n5A	15	5+15	DFT-QPSK	M+M	Outer_Full	22.44	PC3	PASS
DC_66A_n5A	15	5+15	DFT-QPSK	M+M	Inner_Full	23.45	PC3	PASS
DC_66A_n5A	15	5+15	DFT-QPSK	M+M	Edge_1RB_Left	22.45	PC3	PASS
DC_66A_n5A	15	5+15	DFT-QPSK	M+M	Edge_1RB_Right	22.47	PC3	PASS
DC_66A_n5A	15	5+15	DFT-16QAM	M+M	Outer_Full	21.37	PC3	PASS
DC_66A_n5A	15	5+15	DFT-16QAM	M+M	Inner_Full	22.47	PC3	PASS
DC_66A_n5A	15	5+15	DFT-16QAM	M+M	Edge_1RB_Left	21.29	PC3	PASS
DC_66A_n5A	15	5+15	DFT-16QAM	M+M	Edge_1RB_Right	21.26	PC3	PASS
DC_66A_n5A	15	5+15	DFT-QPSK	M+H	Outer_Full	22.47	PC3	PASS
DC_66A_n5A	15	5+15	DFT-QPSK	M+H	Inner_Full	23.54	PC3	PASS
DC_66A_n5A	15	5+15	DFT-QPSK	M+H	Edge_1RB_Left	22.47	PC3	PASS
DC_66A_n5A	15	5+15	DFT-QPSK	M+H	Edge_1RB_Right	22.45	PC3	PASS
DC_66A_n5A	15	5+15	DFT-16QAM	M+H	Outer_Full	21.61	PC3	PASS
DC_66A_n5A	15	5+15	DFT-16QAM	M+H	Inner_Full	22.52	PC3	PASS
DC_66A_n5A	15	5+15	DFT-16QAM	M+H	Edge_1RB_Left	21.68	PC3	PASS
DC_66A_n5A	15	5+15	DFT-16QAM	M+H	Edge_1RB_Right	21.56	PC3	PASS
DC_66A_n5A	15	5+20	DFT-QPSK	M+L	Outer_Full	22.46	PC3	PASS
DC_66A_n5A	15	5+20	DFT-QPSK	M+L	Inner_Full	23.43	PC3	PASS
DC_66A_n5A	15	5+20	DFT-QPSK	M+L	Edge_1RB_Left	22.47	PC3	PASS
DC_66A_n5A	15	5+20	DFT-QPSK	M+L	Edge_1RB_Right	22.54	PC3	PASS
DC_66A_n5A	15	5+20	DFT-16QAM	M+L	Outer_Full	21.43	PC3	PASS

DC_66A_n5A	15	5+20	DFT-16QAM	M+L	Inner_Full	22.31	PC3	PASS
DC_66A_n5A	15	5+20	DFT-16QAM	M+L	Edge_1RB_Left	21.33	PC3	PASS
DC_66A_n5A	15	5+20	DFT-16QAM	M+L	Edge_1RB_Right	20.94	PC3	PASS
DC_66A_n5A	15	5+20	DFT-QPSK	M+M	Outer_Full	22.39	PC3	PASS
DC_66A_n5A	15	5+20	DFT-QPSK	M+M	Inner_Full	23.42	PC3	PASS
DC_66A_n5A	15	5+20	DFT-QPSK	M+M	Edge_1RB_Left	22.40	PC3	PASS
DC_66A_n5A	15	5+20	DFT-QPSK	M+M	Edge_1RB_Right	22.50	PC3	PASS
DC_66A_n5A	15	5+20	DFT-16QAM	M+M	Outer_Full	21.47	PC3	PASS
DC_66A_n5A	15	5+20	DFT-16QAM	M+M	Inner_Full	22.36	PC3	PASS
DC_66A_n5A	15	5+20	DFT-16QAM	M+M	Edge_1RB_Left	21.36	PC3	PASS
DC_66A_n5A	15	5+20	DFT-16QAM	M+M	Edge_1RB_Right	20.98	PC3	PASS
DC_66A_n5A	15	5+20	DFT-QPSK	M+H	Outer_Full	22.36	PC3	PASS
DC_66A_n5A	15	5+20	DFT-QPSK	M+H	Inner_Full	23.61	PC3	PASS
DC_66A_n5A	15	5+20	DFT-QPSK	M+H	Edge_1RB_Left	22.43	PC3	PASS
DC_66A_n5A	15	5+20	DFT-QPSK	M+H	Edge_1RB_Right	22.32	PC3	PASS
DC_66A_n5A	15	5+20	DFT-16QAM	M+H	Outer_Full	21.40	PC3	PASS
DC_66A_n5A	15	5+20	DFT-16QAM	M+H	Inner_Full	22.43	PC3	PASS
DC_66A_n5A	15	5+20	DFT-16QAM	M+H	Edge_1RB_Left	21.19	PC3	PASS
DC_66A_n5A	15	5+20	DFT-16QAM	M+H	Edge_1RB_Right	21.02	PC3	PASS

Appendix B: Peak-to-Average Ratio for NSA

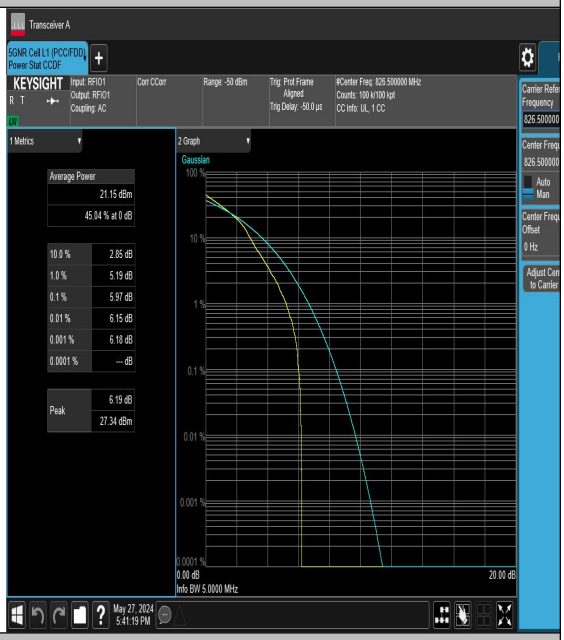
Peak-to-Average Ratio(CCDF)

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
DC_66A_n5A	15	5+5	DFT-QPSK	M+L	Outer_Full	4.80	≤13	PASS
DC_66A_n5A	15	5+5	DFT-16QAM	M+L	Outer_Full	5.97	≤13	PASS
DC_66A_n5A	15	5+5	DFT-QPSK	M+M	Outer_Full	4.64	≤13	PASS
DC_66A_n5A	15	5+5	DFT-16QAM	M+M	Outer_Full	5.94	≤13	PASS
DC_66A_n5A	15	5+5	DFT-QPSK	M+H	Outer_Full	5.12	≤13	PASS
DC_66A_n5A	15	5+5	DFT-16QAM	M+H	Outer_Full	6.30	≤13	PASS
DC_66A_n5A	15	5+10	DFT-QPSK	M+L	Outer_Full	4.84	≤13	PASS
DC_66A_n5A	15	5+10	DFT-16QAM	M+L	Outer_Full	5.83	≤13	PASS
DC_66A_n5A	15	5+10	DFT-QPSK	M+M	Outer_Full	5.55	≤13	PASS
DC_66A_n5A	15	5+10	DFT-16QAM	M+M	Outer_Full	6.47	≤13	PASS
DC_66A_n5A	15	5+10	DFT-QPSK	M+H	Outer_Full	5.26	≤13	PASS
DC_66A_n5A	15	5+10	DFT-16QAM	M+H	Outer_Full	6.19	≤13	PASS
DC_66A_n5A	15	5+15	DFT-QPSK	M+L	Outer_Full	5.59	≤13	PASS
DC_66A_n5A	15	5+15	DFT-16QAM	M+L	Outer_Full	6.26	≤13	PASS
DC_66A_n5A	15	5+15	DFT-QPSK	M+M	Outer_Full	5.28	≤13	PASS
DC_66A_n5A	15	5+15	DFT-16QAM	M+M	Outer_Full	6.21	≤13	PASS
DC_66A_n5A	15	5+15	DFT-QPSK	M+H	Outer_Full	5.12	≤13	PASS

DC_66A_n5A	15	5+15	DFT-16QAM	M+H	Outer_Full	6.04	≤13	PASS
DC_66A_n5A	15	5+20	DFT-QPSK	M+L	Outer_Full	5.20	≤13	PASS
DC_66A_n5A	15	5+20	DFT-16QAM	M+L	Outer_Full	6.06	≤13	PASS
DC_66A_n5A	15	5+20	DFT-QPSK	M+M	Outer_Full	5.13	≤13	PASS
DC_66A_n5A	15	5+20	DFT-16QAM	M+M	Outer_Full	6.04	≤13	PASS
DC_66A_n5A	15	5+20	DFT-QPSK	M+H	Outer_Full	5.04	≤13	PASS
DC_66A_n5A	15	5+20	DFT-16QAM	M+H	Outer_Full	5.95	≤13	PASS

Test Graphs

NTNV_DC_66A_n5A_PC3_15_5+5_M+L_TID2_#1	NTNV_DC_66A_n5A_PC3_15_5+5_M+L_TID3_#1
	
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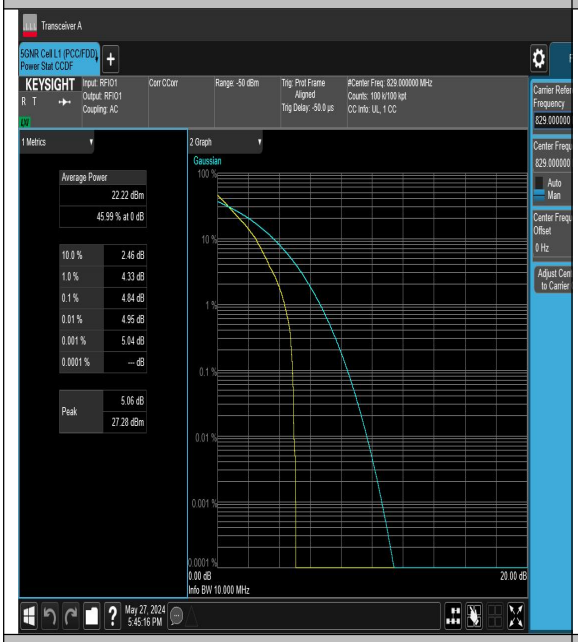
NTNV_DC_66A_n5A_PC3_15_5+5_M+H_TID2_#1	NTNV_DC_66A_n5A_PC3_15_5+5_M+H_TID3_#1

NTNV_DC_66A_n5A_PC3_15_5+10_M+L_TID2_#1

NTNV_DC_66A_n5A_PC3_15_5+10_M+L_TID3_#1



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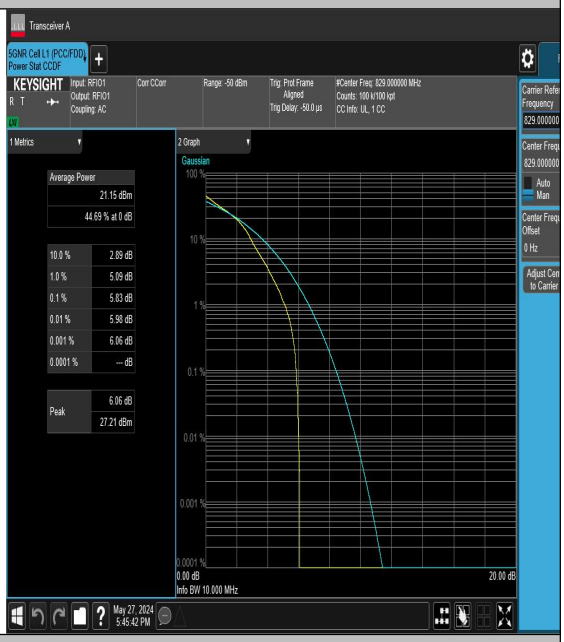

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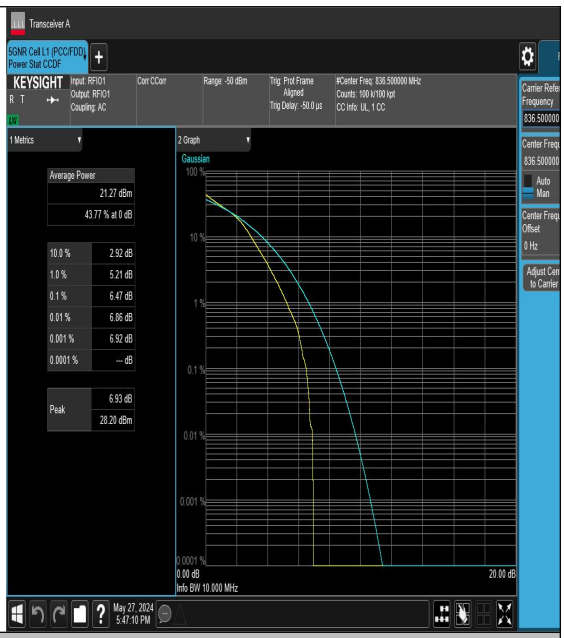

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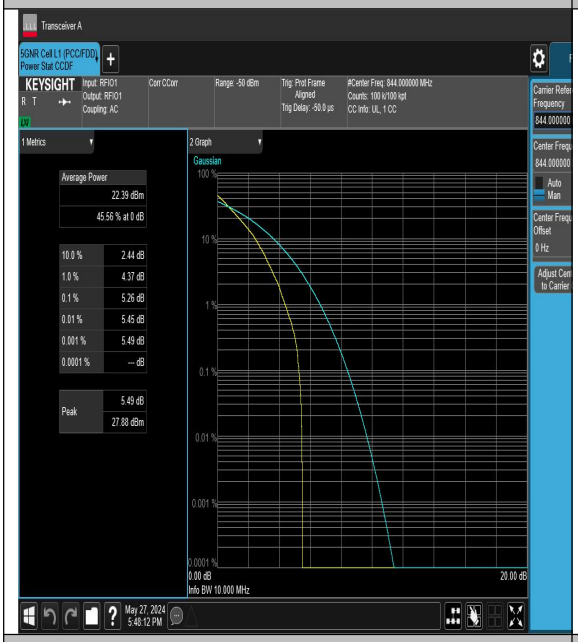

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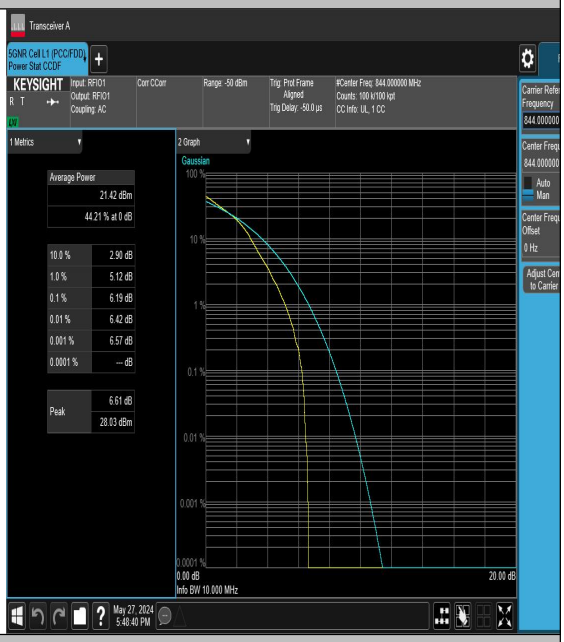

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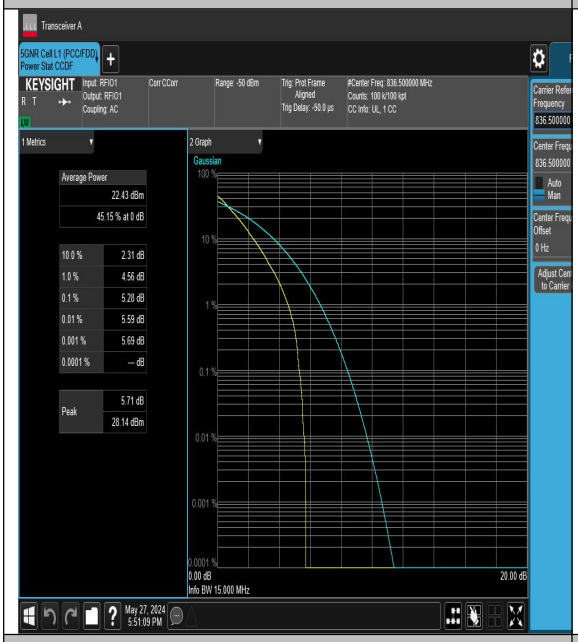

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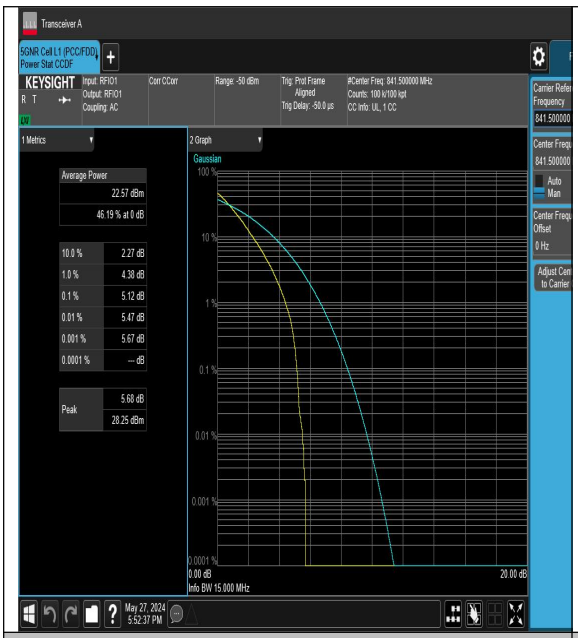

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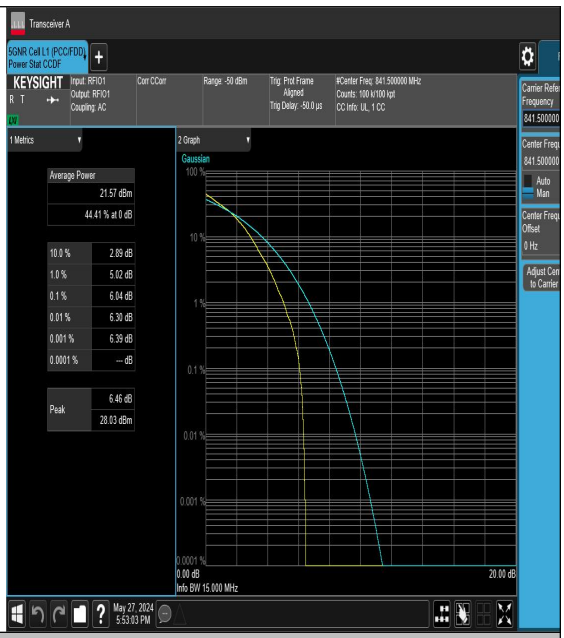

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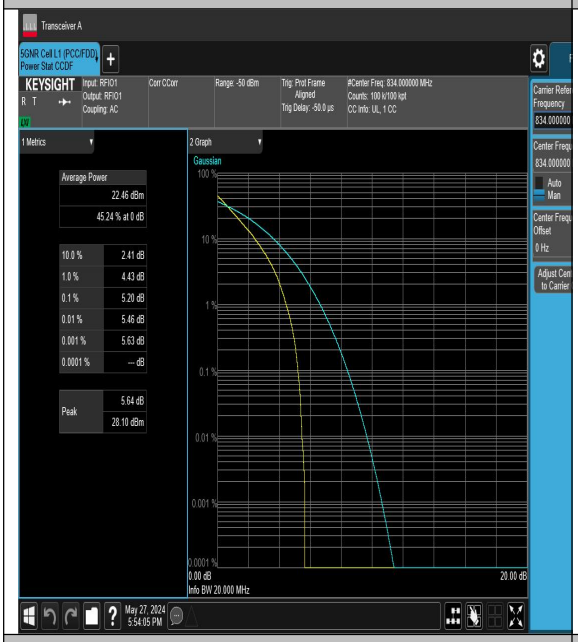

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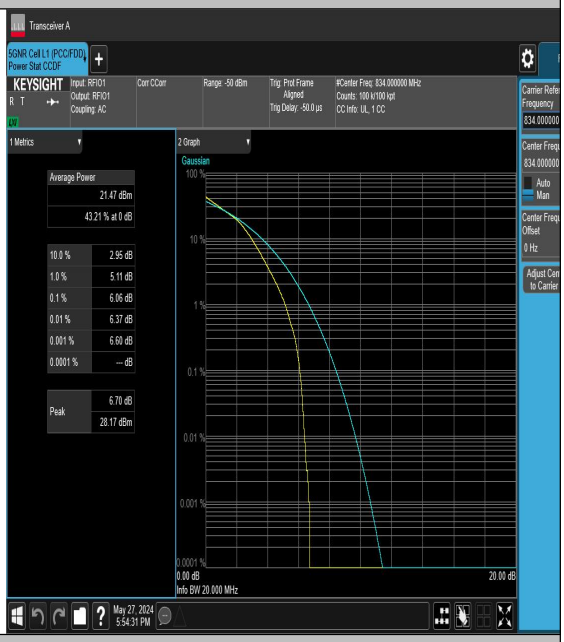
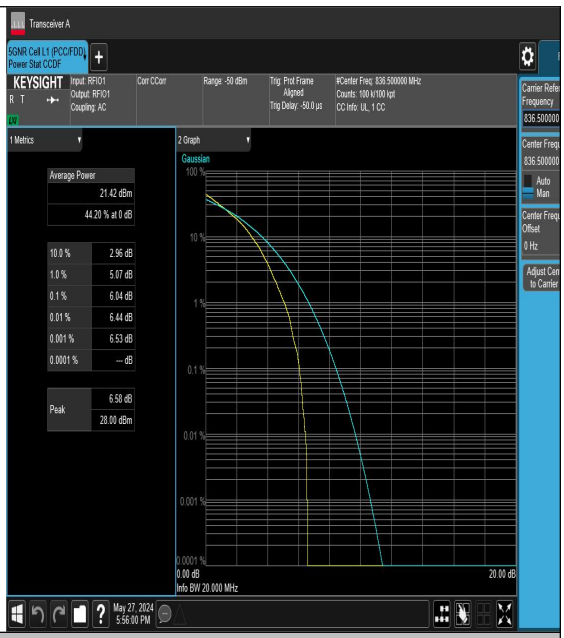


NTNV_DC_66A_n5A_PC3_15_5+20_M+M_TID3_#1

NTNV_DC_66A_n5A_PC3_15_5+20_M+H_TID2_#1



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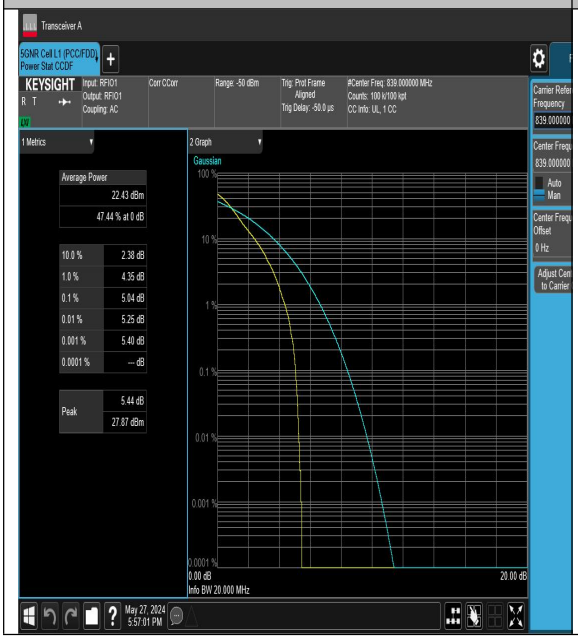
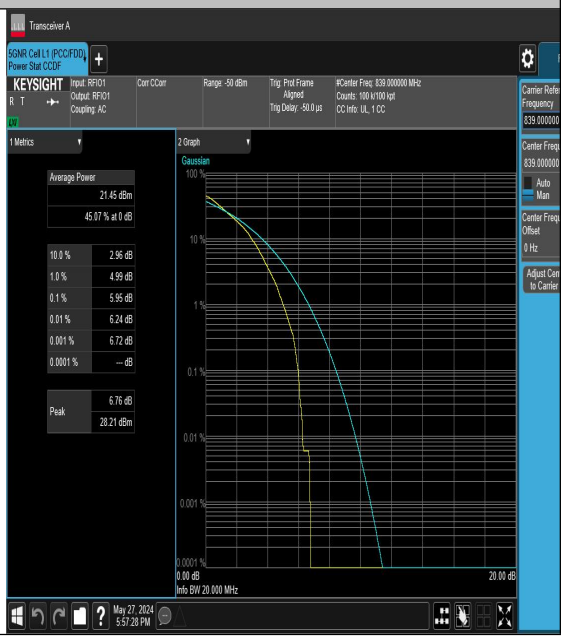




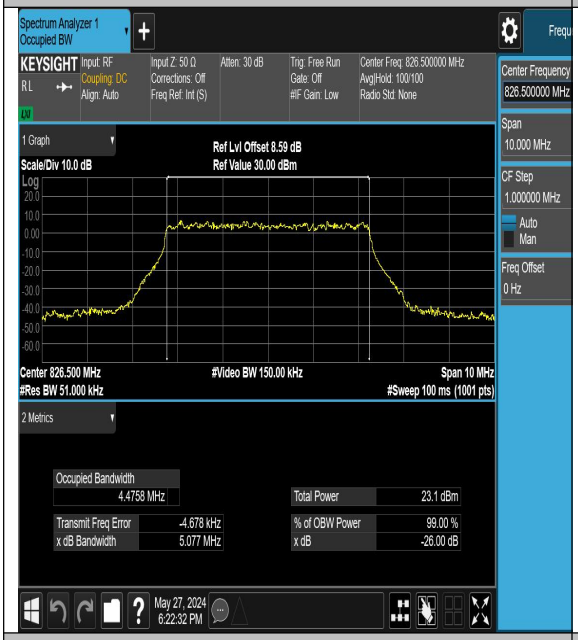
Appendix C: 26dB Bandwidth and Occupied Bandwidth for NSA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
DC_66A_n5A	15	5+5	DFT-QPSK	M+L	Outer_Full	4.4758	5.077	PASS
DC_66A_n5A	15	5+5	DFT-16QAM	M+L	Outer_Full	4.4886	5.076	PASS
DC_66A_n5A	15	5+5	DFT-QPSK	M+M	Outer_Full	4.4796	4.958	PASS
DC_66A_n5A	15	5+5	DFT-16QAM	M+M	Outer_Full	4.4782	5.092	PASS
DC_66A_n5A	15	5+5	DFT-QPSK	M+H	Outer_Full	4.4770	5.058	PASS
DC_66A_n5A	15	5+5	DFT-16QAM	M+H	Outer_Full	4.4930	5.050	PASS
DC_66A_n5A	15	5+10	DFT-QPSK	M+L	Outer_Full	8.9343	9.621	PASS
DC_66A_n5A	15	5+10	DFT-16QAM	M+L	Outer_Full	8.9236	9.636	PASS
DC_66A_n5A	15	5+10	DFT-QPSK	M+M	Outer_Full	8.9325	9.643	PASS
DC_66A_n5A	15	5+10	DFT-16QAM	M+M	Outer_Full	8.9260	9.605	PASS
DC_66A_n5A	15	5+10	DFT-QPSK	M+H	Outer_Full	8.9092	9.611	PASS
DC_66A_n5A	15	5+10	DFT-16QAM	M+H	Outer_Full	8.9112	9.531	PASS
DC_66A_n5A	15	5+15	DFT-QPSK	M+L	Outer_Full	13.435	14.26	PASS
DC_66A_n5A	15	5+15	DFT-16QAM	M+L	Outer_Full	13.424	14.42	PASS
DC_66A_n5A	15	5+15	DFT-QPSK	M+M	Outer_Full	13.392	14.32	PASS
DC_66A_n5A	15	5+15	DFT-16QAM	M+M	Outer_Full	13.399	14.34	PASS
DC_66A_n5A	15	5+15	DFT-QPSK	M+H	Outer_Full	13.368	14.19	PASS
DC_66A_n5A	15	5+15	DFT-16QAM	M+H	Outer_Full	13.386	14.35	PASS
DC_66A_n5A	15	5+20	DFT-QPSK	M+L	Outer_Full	17.886	18.93	PASS
DC_66A_n5A	15	5+20	DFT-16QAM	M+L	Outer_Full	17.864	18.89	PASS
DC_66A_n5A	15	5+20	DFT-QPSK	M+M	Outer_Full	17.840	18.91	PASS
DC_66A_n5A	15	5+20	DFT-16QAM	M+M	Outer_Full	17.844	18.83	PASS
DC_66A_n5A	15	5+20	DFT-QPSK	M+H	Outer_Full	17.814	18.85	PASS
DC_66A_n5A	15	5+20	DFT-16QAM	M+H	Outer_Full	17.801	18.81	PASS

Test Graphs

NTNV_DC_66A_n5A_PC3_15_5+5_M+L_TID1_Ant1#1



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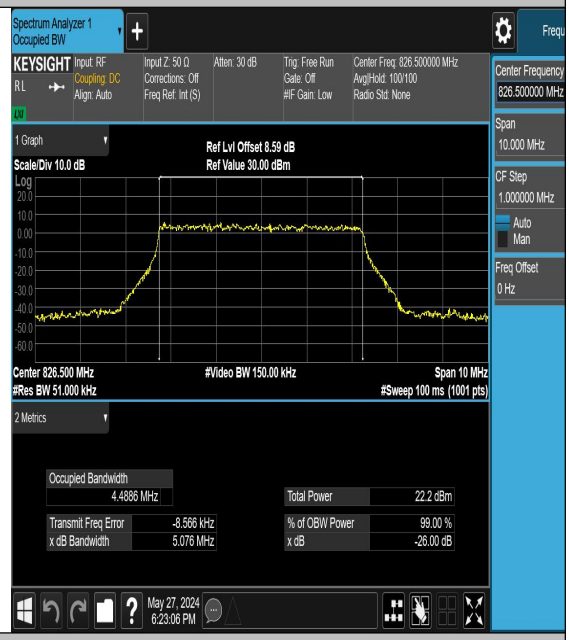

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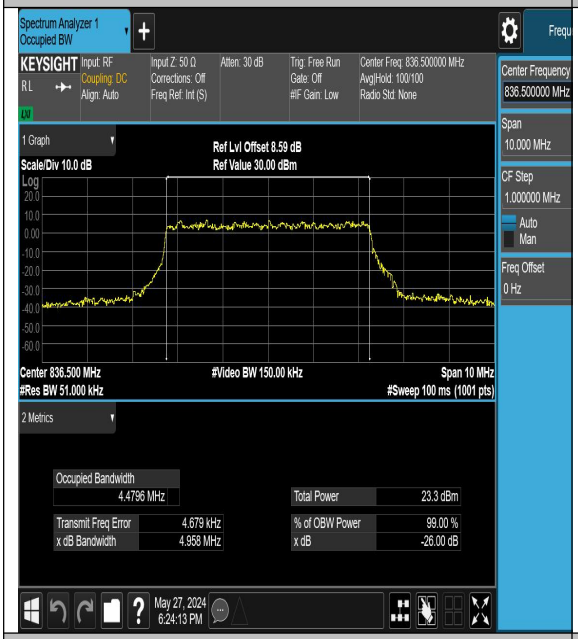

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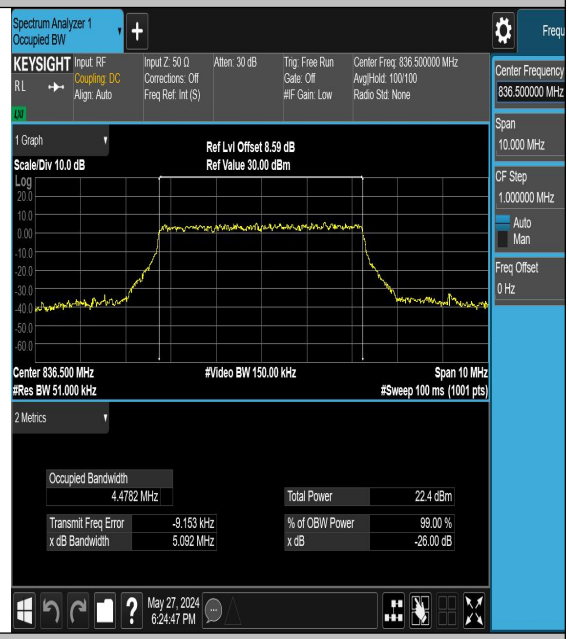

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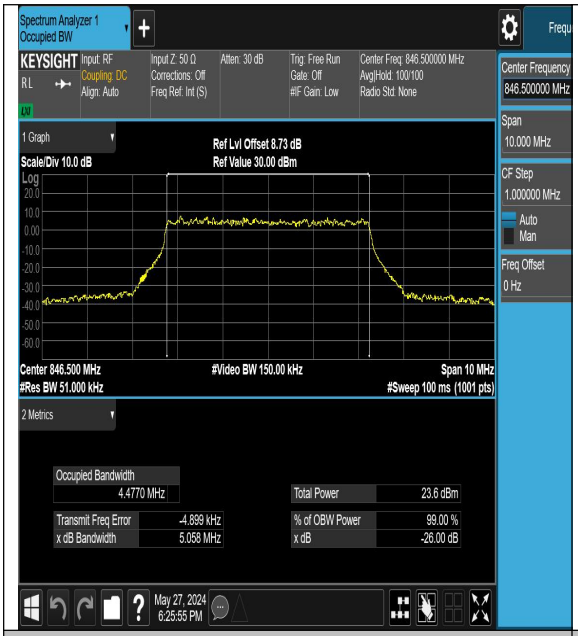

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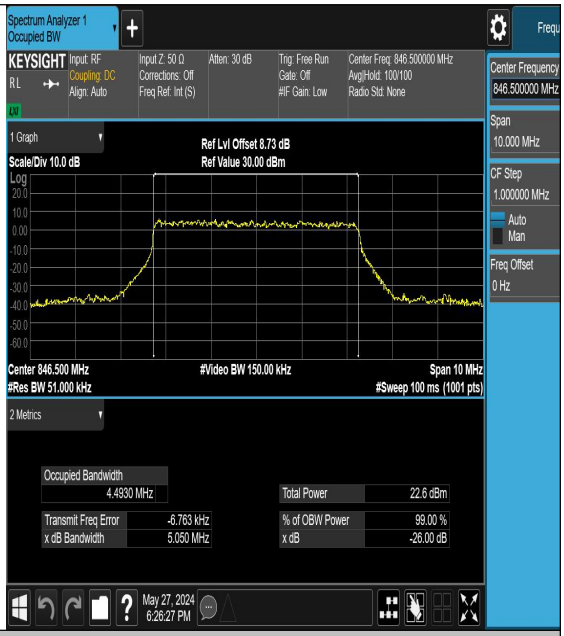

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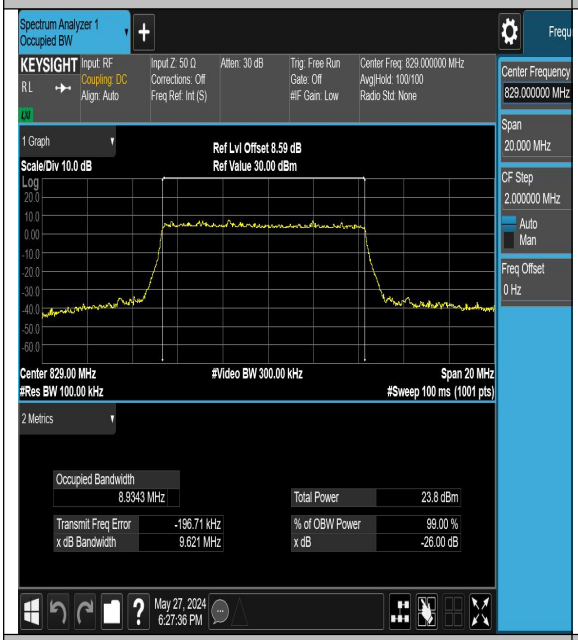

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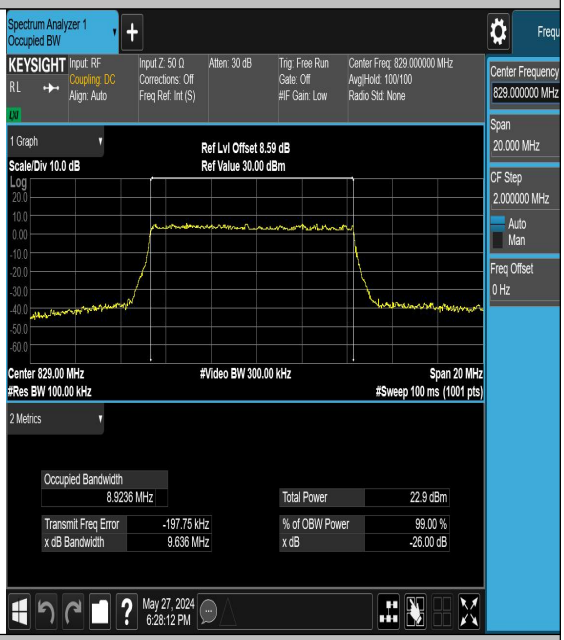

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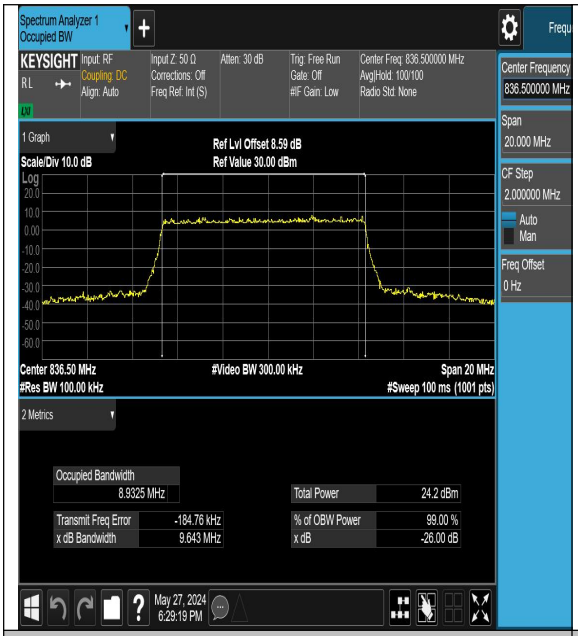

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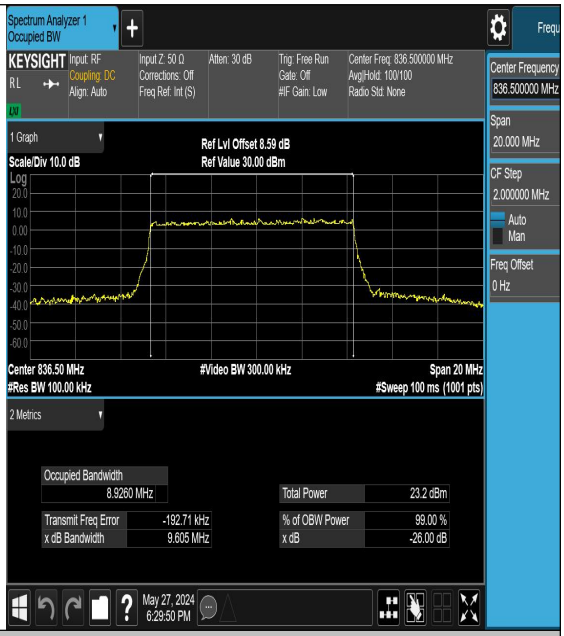

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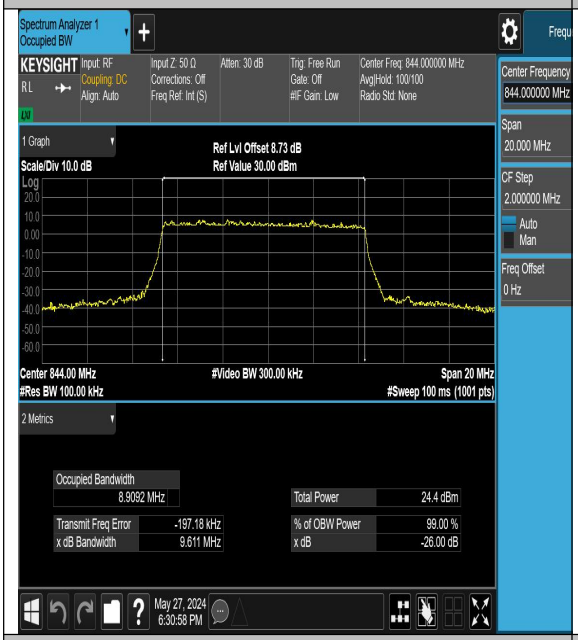

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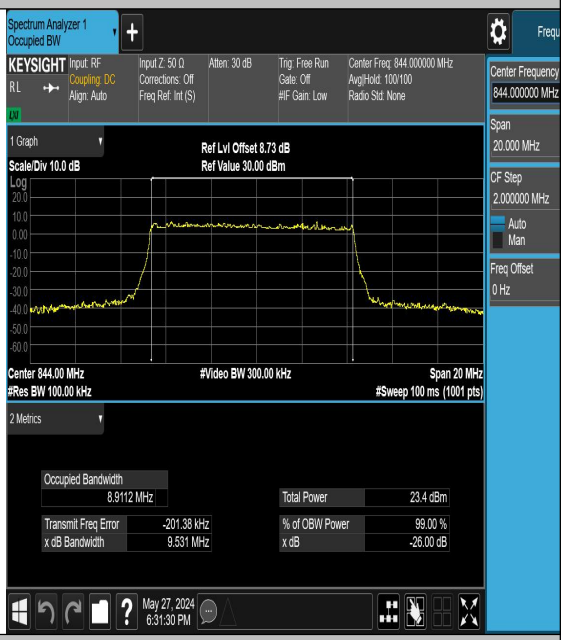

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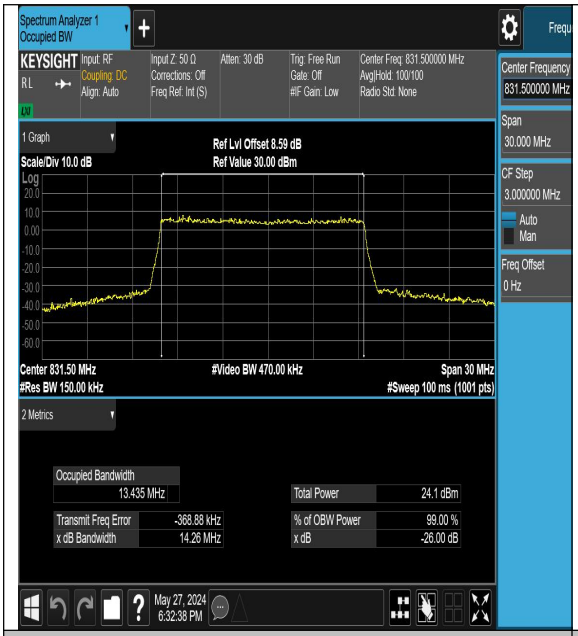

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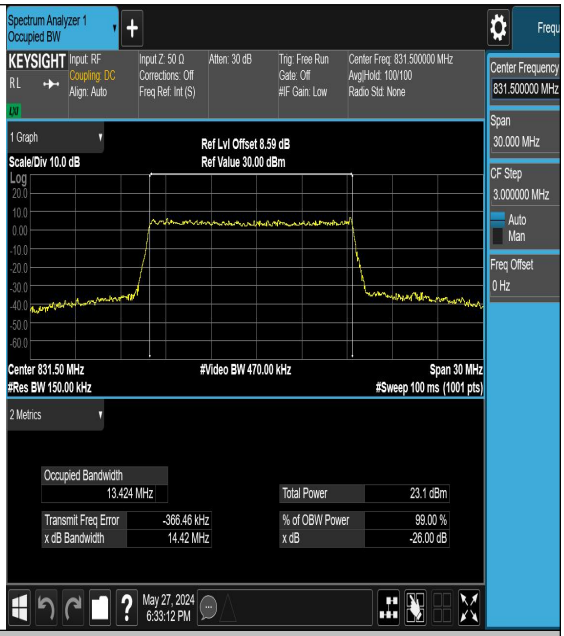

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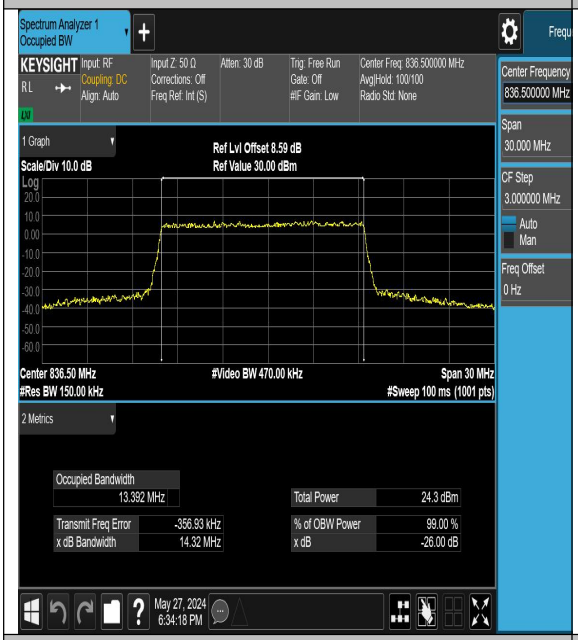

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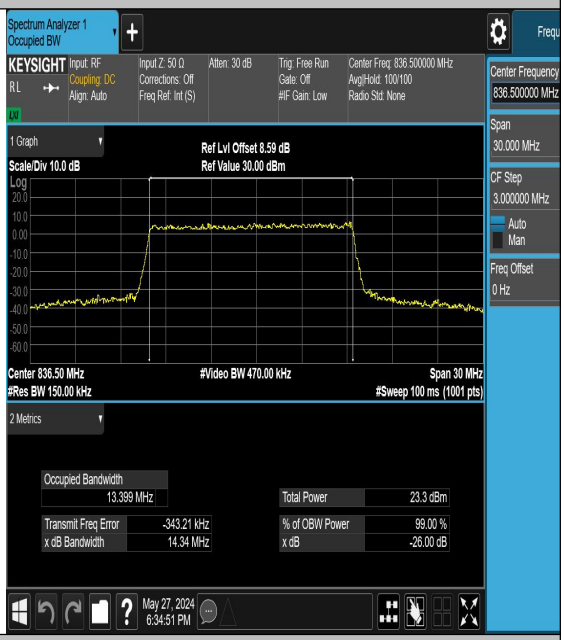

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