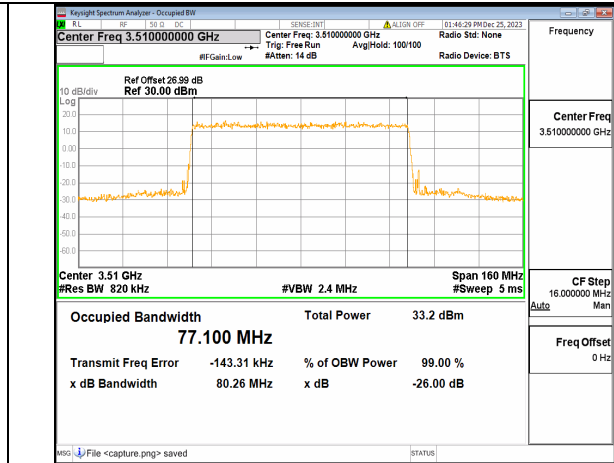
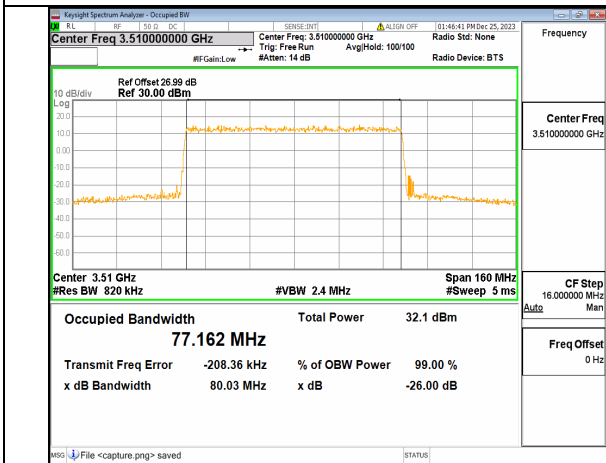


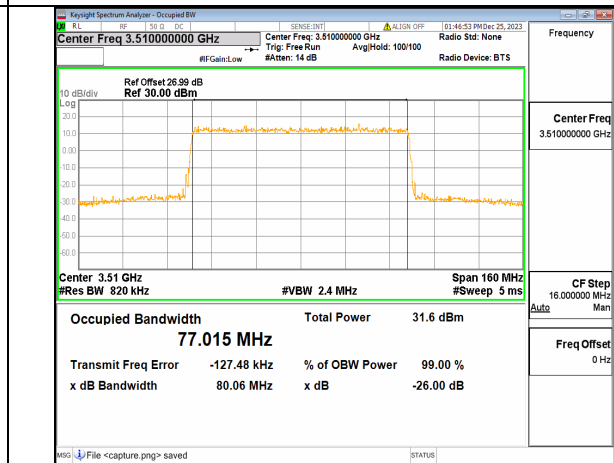
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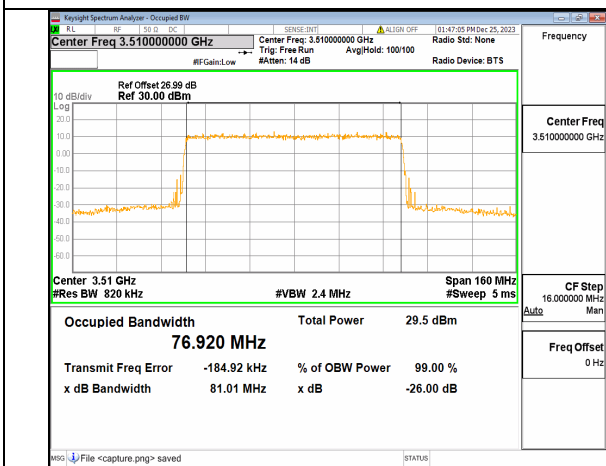
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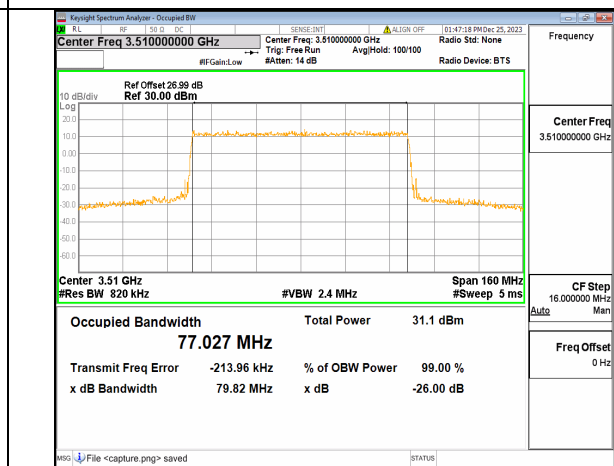
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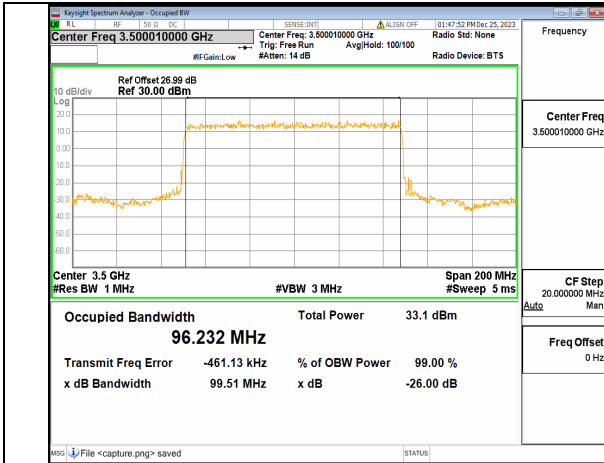
n77(3450-3550MHz) 80M DFT-s-OFDM 64QAM Outer_Full High



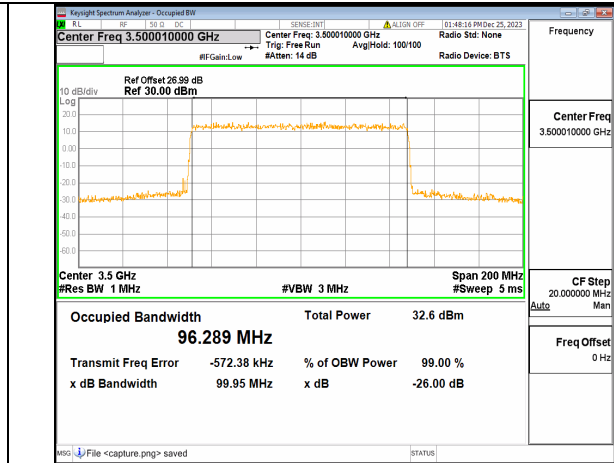
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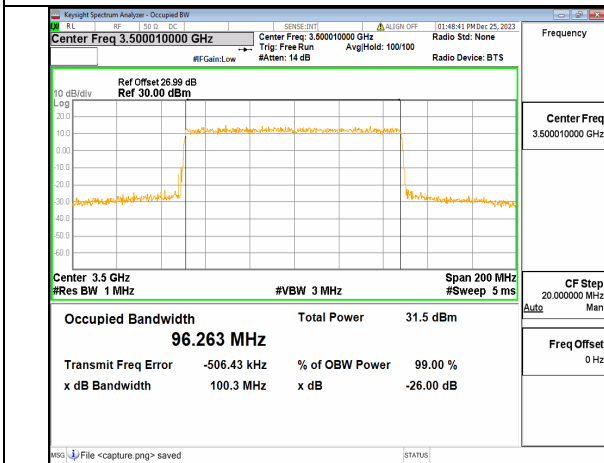
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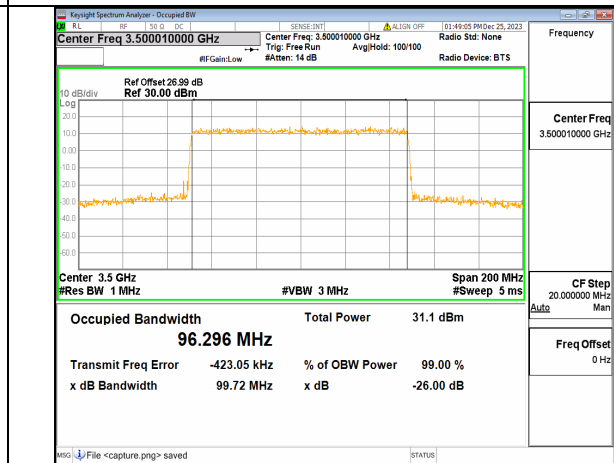
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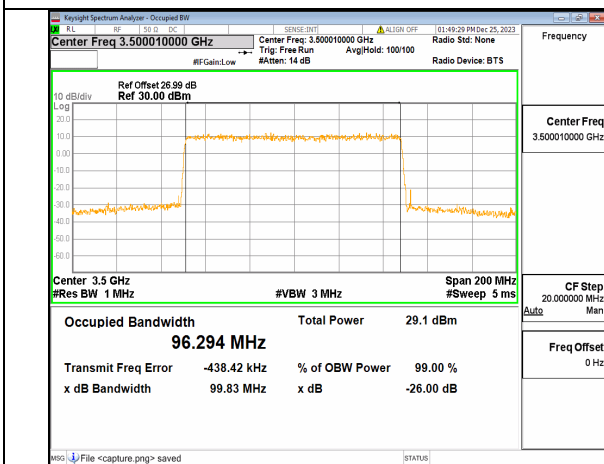
n77(3450-3550MHz) 100M DFT-s-OFDM QPSK Outer_Full Mid



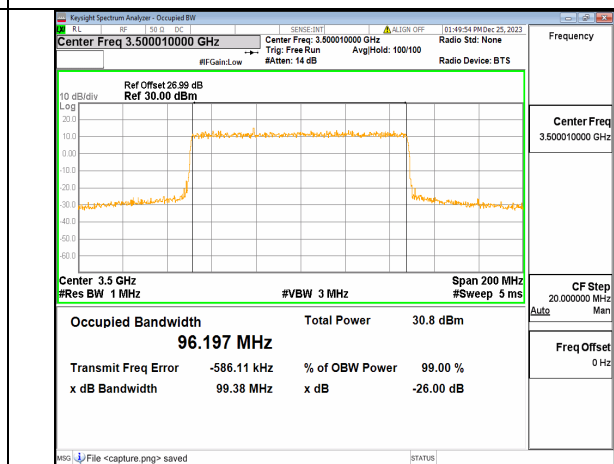
n77(3450-3550MHz) 100M DFT-s-OFDM 16QAM Outer_Full Mid



n77(3450-3550MHz) 100M DFT-s-OFDM 64QAM Outer_Full Mid



n77(3450-3550MHz) 100M DFT-s-OFDM 256QAM Outer_Full Mid



n77(3450-3550MHz) 100M CP-OFDM QPSK Outer_Full Mid



Band	SCS (kHz)	BW (MHz)	ARFCN	Modulation	RB	OBW (MHz)	26dB BW (MHz)	Verdict
n77(3700-3980MHz)	30	20	647334	DFT-s-OFDM PI/2 BPSK	50/0	17.825	19.278	PASS
n77(3700-3980MHz)	30	20	647334	DFT-s-OFDM QPSK	50/0	17.842	19.100	PASS
n77(3700-3980MHz)	30	20	647334	DFT-s-OFDM 16QAM	50/0	17.863	18.974	PASS
n77(3700-3980MHz)	30	20	647334	DFT-s-OFDM 64QAM	50/0	17.757	19.026	PASS
n77(3700-3980MHz)	30	20	647334	DFT-s-OFDM 256QAM	50/0	17.785	18.903	PASS
n77(3700-3980MHz)	30	20	647334	CP-OFDM QPSK	51/0	17.863	19.333	PASS
n77(3700-3980MHz)	30	20	656000	DFT-s-OFDM PI/2 BPSK	50/0	17.840	19.191	PASS
n77(3700-3980MHz)	30	20	656000	DFT-s-OFDM QPSK	50/0	17.811	18.989	PASS
n77(3700-3980MHz)	30	20	656000	DFT-s-OFDM 16QAM	50/0	17.859	19.429	PASS
n77(3700-3980MHz)	30	20	656000	DFT-s-OFDM 64QAM	50/0	17.816	19.303	PASS
n77(3700-3980MHz)	30	20	656000	DFT-s-OFDM 256QAM	50/0	17.849	19.376	PASS
n77(3700-3980MHz)	30	20	656000	CP-OFDM QPSK	51/0	17.860	21.203	PASS
n77(3700-3980MHz)	30	20	664666	DFT-s-OFDM PI/2 BPSK	50/0	17.814	19.251	PASS
n77(3700-3980MHz)	30	20	664666	DFT-s-OFDM QPSK	50/0	17.836	19.179	PASS
n77(3700-3980MHz)	30	20	664666	DFT-s-OFDM 16QAM	50/0	17.871	19.127	PASS
n77(3700-3980MHz)	30	20	664666	DFT-s-OFDM 64QAM	50/0	17.831	19.173	PASS
n77(3700-3980MHz)	30	20	664666	DFT-s-OFDM 256QAM	50/0	17.824	19.101	PASS
n77(3700-3980MHz)	30	20	664666	CP-OFDM QPSK	51/0	17.887	19.332	PASS
n77(3700-3980MHz)	30	30	647668	DFT-s-OFDM PI/2 BPSK	75/0	26.778	28.843	PASS
n77(3700-3980MHz)	30	30	647668	DFT-s-OFDM QPSK	75/0	26.763	28.524	PASS
n77(3700-3980MHz)	30	30	647668	DFT-s-OFDM 16QAM	75/0	26.800	28.324	PASS
n77(3700-3980MHz)	30	30	647668	DFT-s-OFDM 64QAM	75/0	26.741	28.718	PASS



n77(3700-3980MHz)	30	30	647668	DFT-s-OFDM 256QAM	75/0	26.798	28.186	PASS
n77(3700-3980MHz)	30	30	647668	CP-OFDM QPSK	78/0	26.806	28.416	PASS
n77(3700-3980MHz)	30	30	656000	DFT-s-OFDM PI/2 BPSK	75/0	26.785	28.420	PASS
n77(3700-3980MHz)	30	30	656000	DFT-s-OFDM QPSK	75/0	26.804	28.222	PASS
n77(3700-3980MHz)	30	30	656000	DFT-s-OFDM 16QAM	75/0	26.824	28.399	PASS
n77(3700-3980MHz)	30	30	656000	DFT-s-OFDM 64QAM	75/0	26.777	30.711	PASS
n77(3700-3980MHz)	30	30	656000	DFT-s-OFDM 256QAM	75/0	26.790	28.644	PASS
n77(3700-3980MHz)	30	30	656000	CP-OFDM QPSK	78/0	26.804	28.481	PASS
n77(3700-3980MHz)	30	30	664332	DFT-s-OFDM PI/2 BPSK	75/0	26.769	28.400	PASS
n77(3700-3980MHz)	30	30	664332	DFT-s-OFDM QPSK	75/0	26.806	28.553	PASS
n77(3700-3980MHz)	30	30	664332	DFT-s-OFDM 16QAM	75/0	26.788	28.744	PASS
n77(3700-3980MHz)	30	30	664332	DFT-s-OFDM 64QAM	75/0	26.790	28.398	PASS
n77(3700-3980MHz)	30	30	664332	DFT-s-OFDM 256QAM	75/0	26.806	28.758	PASS
n77(3700-3980MHz)	30	30	664332	CP-OFDM QPSK	78/0	26.759	28.338	PASS
n77(3700-3980MHz)	30	40	648000	DFT-s-OFDM PI/2 BPSK	100/0	35.721	37.218	PASS
n77(3700-3980MHz)	30	40	648000	DFT-s-OFDM QPSK	100/0	35.738	37.839	PASS
n77(3700-3980MHz)	30	40	648000	DFT-s-OFDM 16QAM	100/0	35.738	37.272	PASS
n77(3700-3980MHz)	30	40	648000	DFT-s-OFDM 64QAM	100/0	35.704	37.608	PASS
n77(3700-3980MHz)	30	40	648000	DFT-s-OFDM 256QAM	100/0	35.730	37.506	PASS
n77(3700-3980MHz)	30	40	648000	CP-OFDM QPSK	106/0	35.672	37.739	PASS
n77(3700-3980MHz)	30	40	656000	DFT-s-OFDM PI/2 BPSK	100/0	35.746	39.532	PASS
n77(3700-3980MHz)	30	40	656000	DFT-s-OFDM QPSK	100/0	35.713	37.851	PASS
n77(3700-3980MHz)	30	40	656000	DFT-s-OFDM 16QAM	100/0	35.809	37.390	PASS
n77(3700-3980MHz)	30	40	656000	DFT-s-OFDM 64QAM	100/0	35.778	37.594	PASS



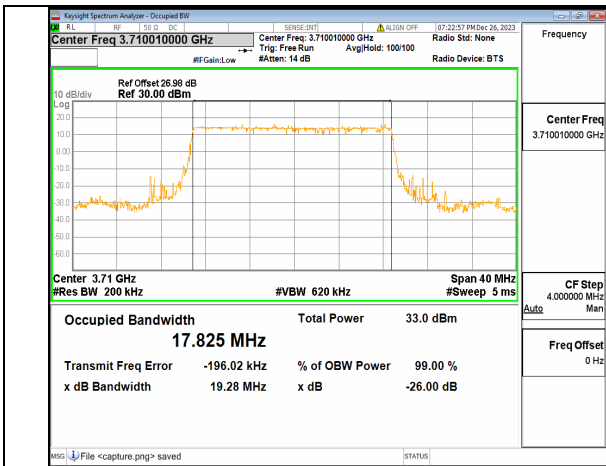
n77(3700-3980MHz)	30	40	656000	DFT-s-OFDM 256QAM	100/0	35.731	37.550	PASS
n77(3700-3980MHz)	30	40	656000	CP-OFDM QPSK	106/0	35.623	37.909	PASS
n77(3700-3980MHz)	30	40	664000	DFT-s-OFDM PI/2 BPSK	100/0	35.736	37.285	PASS
n77(3700-3980MHz)	30	40	664000	DFT-s-OFDM QPSK	100/0	35.758	38.054	PASS
n77(3700-3980MHz)	30	40	664000	DFT-s-OFDM 16QAM	100/0	35.778	37.452	PASS
n77(3700-3980MHz)	30	40	664000	DFT-s-OFDM 64QAM	100/0	35.726	37.616	PASS
n77(3700-3980MHz)	30	40	664000	DFT-s-OFDM 256QAM	100/0	35.786	37.543	PASS
n77(3700-3980MHz)	30	40	664000	CP-OFDM QPSK	106/0	35.685	37.375	PASS
n77(3700-3980MHz)	30	60	648668	DFT-s-OFDM PI/2 BPSK	162/0	57.872	60.100	PASS
n77(3700-3980MHz)	30	60	648668	DFT-s-OFDM QPSK	162/0	57.867	60.620	PASS
n77(3700-3980MHz)	30	60	648668	DFT-s-OFDM 16QAM	162/0	57.833	60.151	PASS
n77(3700-3980MHz)	30	60	648668	DFT-s-OFDM 64QAM	162/0	57.908	61.374	PASS
n77(3700-3980MHz)	30	60	648668	DFT-s-OFDM 256QAM	162/0	57.831	60.300	PASS
n77(3700-3980MHz)	30	60	648668	CP-OFDM QPSK	162/0	57.874	59.887	PASS
n77(3700-3980MHz)	30	60	656000	DFT-s-OFDM PI/2 BPSK	162/0	57.902	60.206	PASS
n77(3700-3980MHz)	30	60	656000	DFT-s-OFDM QPSK	162/0	57.830	62.435	PASS
n77(3700-3980MHz)	30	60	656000	DFT-s-OFDM 16QAM	162/0	57.887	60.025	PASS
n77(3700-3980MHz)	30	60	656000	DFT-s-OFDM 64QAM	162/0	57.950	61.116	PASS
n77(3700-3980MHz)	30	60	656000	DFT-s-OFDM 256QAM	162/0	57.815	60.111	PASS
n77(3700-3980MHz)	30	60	656000	CP-OFDM QPSK	162/0	57.774	59.745	PASS
n77(3700-3980MHz)	30	60	663332	DFT-s-OFDM PI/2 BPSK	162/0	57.851	60.262	PASS
n77(3700-3980MHz)	30	60	663332	DFT-s-OFDM QPSK	162/0	57.848	60.494	PASS
n77(3700-3980MHz)	30	60	663332	DFT-s-OFDM 16QAM	162/0	57.918	62.324	PASS
n77(3700-3980MHz)	30	60	663332	DFT-s-OFDM 64QAM	162/0	57.914	60.416	PASS



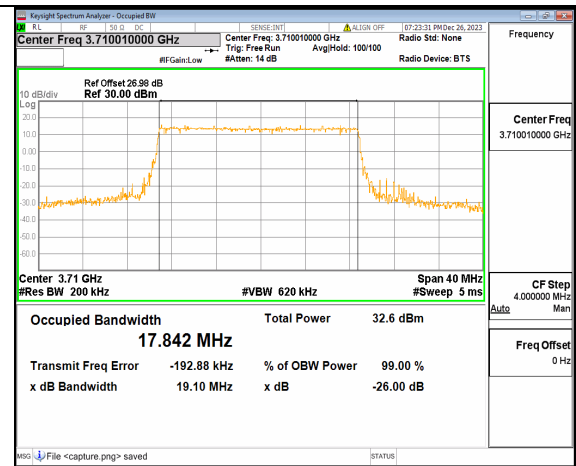
n77(3700-3980MHz)	30	60	663332	DFT-s-OFDM 256QAM	162/0	57.753	60.041	PASS
n77(3700-3980MHz)	30	60	663332	CP-OFDM QPSK	162/0	57.698	61.290	PASS
n77(3700-3980MHz)	30	80	649334	DFT-s-OFDM PI/2 BPSK	216/0	77.126	80.467	PASS
n77(3700-3980MHz)	30	80	649334	DFT-s-OFDM QPSK	216/0	77.048	79.810	PASS
n77(3700-3980MHz)	30	80	649334	DFT-s-OFDM 16QAM	216/0	77.158	80.012	PASS
n77(3700-3980MHz)	30	80	649334	DFT-s-OFDM 64QAM	216/0	77.094	79.934	PASS
n77(3700-3980MHz)	30	80	649334	DFT-s-OFDM 256QAM	216/0	76.966	79.620	PASS
n77(3700-3980MHz)	30	80	649334	CP-OFDM QPSK	217/0	77.116	80.090	PASS
n77(3700-3980MHz)	30	80	656000	DFT-s-OFDM PI/2 BPSK	216/0	76.884	80.185	PASS
n77(3700-3980MHz)	30	80	656000	DFT-s-OFDM QPSK	216/0	77.049	79.826	PASS
n77(3700-3980MHz)	30	80	656000	DFT-s-OFDM 16QAM	216/0	77.056	81.453	PASS
n77(3700-3980MHz)	30	80	656000	DFT-s-OFDM 64QAM	216/0	76.999	79.756	PASS
n77(3700-3980MHz)	30	80	656000	DFT-s-OFDM 256QAM	216/0	77.074	81.195	PASS
n77(3700-3980MHz)	30	80	656000	CP-OFDM QPSK	217/0	76.964	79.808	PASS
n77(3700-3980MHz)	30	80	662666	DFT-s-OFDM PI/2 BPSK	216/0	77.022	79.999	PASS
n77(3700-3980MHz)	30	80	662666	DFT-s-OFDM QPSK	216/0	77.141	79.785	PASS
n77(3700-3980MHz)	30	80	662666	DFT-s-OFDM 16QAM	216/0	77.295	79.907	PASS
n77(3700-3980MHz)	30	80	662666	DFT-s-OFDM 64QAM	216/0	76.959	79.674	PASS
n77(3700-3980MHz)	30	80	662666	DFT-s-OFDM 256QAM	216/0	76.947	80.204	PASS
n77(3700-3980MHz)	30	80	662666	CP-OFDM QPSK	217/0	76.998	79.845	PASS
n77(3700-3980MHz)	30	100	650000	DFT-s-OFDM PI/2 BPSK	270/0	96.290	99.462	PASS
n77(3700-3980MHz)	30	100	650000	DFT-s-OFDM QPSK	270/0	96.216	99.781	PASS
n77(3700-3980MHz)	30	100	650000	DFT-s-OFDM 16QAM	270/0	96.178	99.475	PASS
n77(3700-3980MHz)	30	100	650000	DFT-s-OFDM 64QAM	270/0	96.284	99.754	PASS



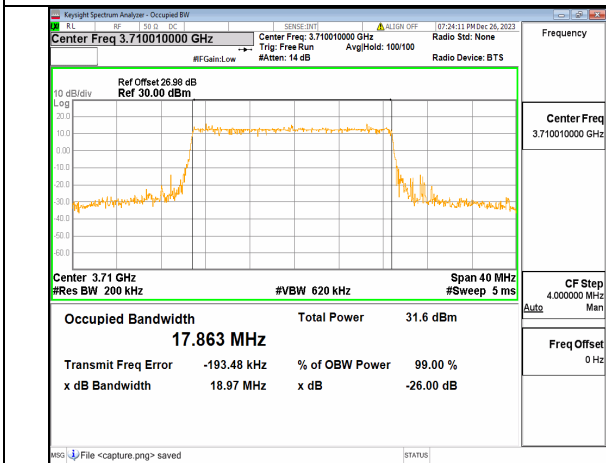
n77(3700-3980MHz)	30	100	650000	DFT-s-OFDM 256QAM	270/0	96.206	99.852	PASS
n77(3700-3980MHz)	30	100	650000	CP-OFDM QPSK	273/0	96.235	99.821	PASS
n77(3700-3980MHz)	30	100	656000	DFT-s-OFDM PI/2 BPSK	270/0	96.404	101.804	PASS
n77(3700-3980MHz)	30	100	656000	DFT-s-OFDM QPSK	270/0	96.373	99.597	PASS
n77(3700-3980MHz)	30	100	656000	DFT-s-OFDM 16QAM	270/0	96.342	99.826	PASS
n77(3700-3980MHz)	30	100	656000	DFT-s-OFDM 64QAM	270/0	96.333	99.675	PASS
n77(3700-3980MHz)	30	100	656000	DFT-s-OFDM 256QAM	270/0	96.230	99.762	PASS
n77(3700-3980MHz)	30	100	656000	CP-OFDM QPSK	273/0	96.225	99.640	PASS
n77(3700-3980MHz)	30	100	662000	DFT-s-OFDM PI/2 BPSK	270/0	96.319	99.481	PASS
n77(3700-3980MHz)	30	100	662000	DFT-s-OFDM QPSK	270/0	96.333	99.724	PASS
n77(3700-3980MHz)	30	100	662000	DFT-s-OFDM 16QAM	270/0	96.252	99.847	PASS
n77(3700-3980MHz)	30	100	662000	DFT-s-OFDM 64QAM	270/0	96.322	99.603	PASS
n77(3700-3980MHz)	30	100	662000	DFT-s-OFDM 256QAM	270/0	96.403	99.483	PASS
n77(3700-3980MHz)	30	100	662000	CP-OFDM QPSK	273/0	96.227	100.787	PASS



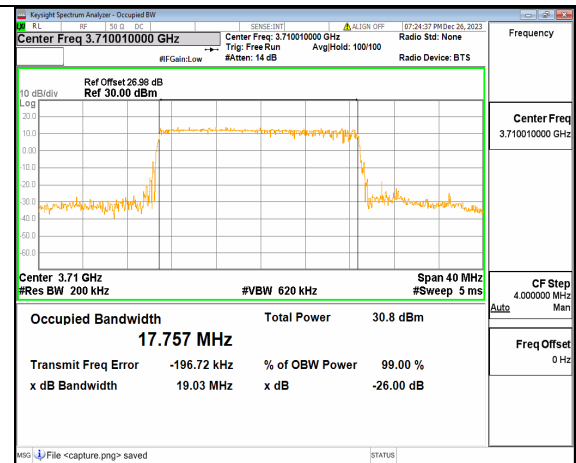
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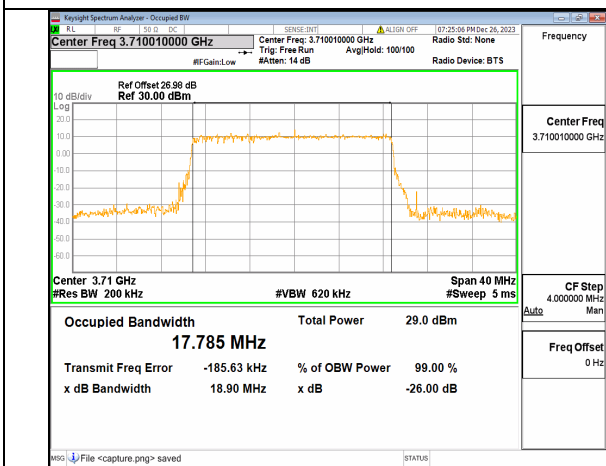
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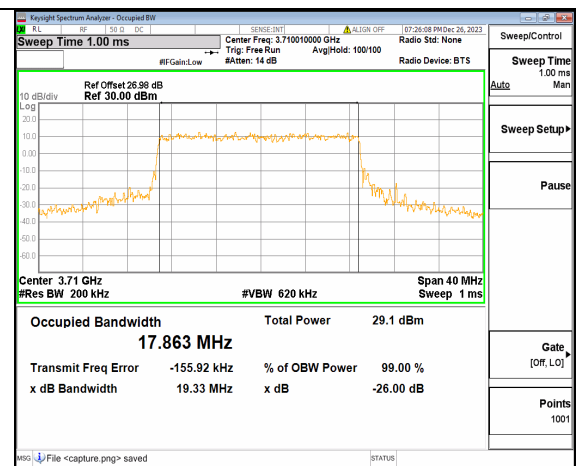
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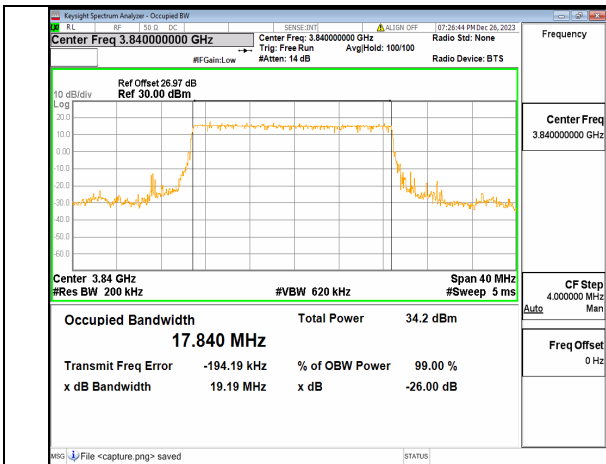
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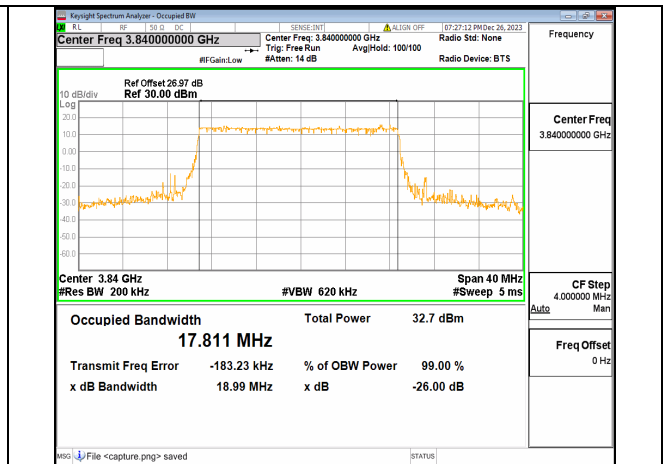
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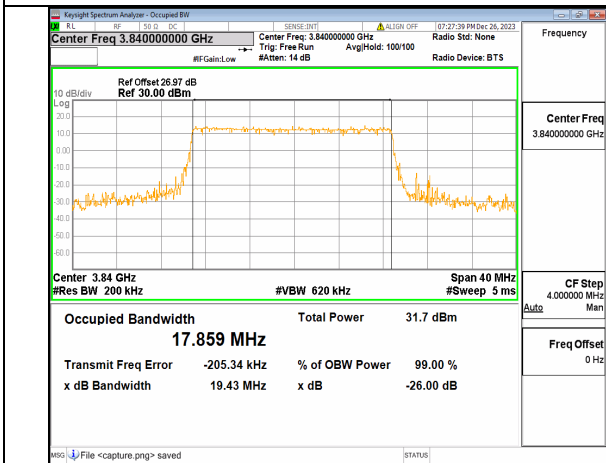
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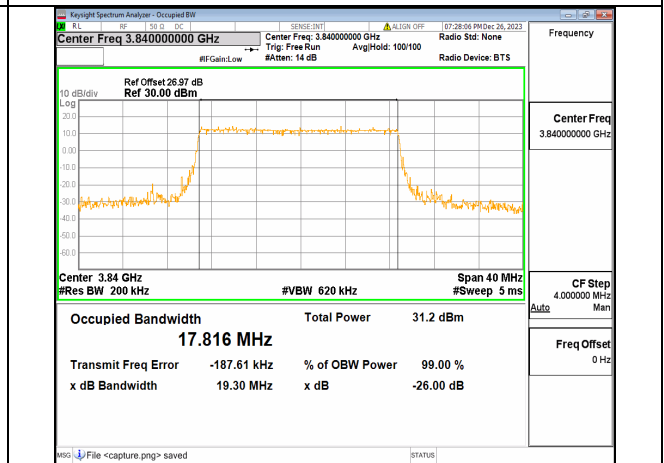
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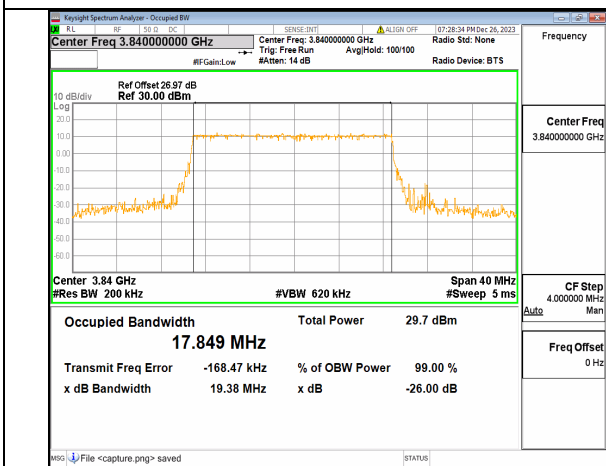
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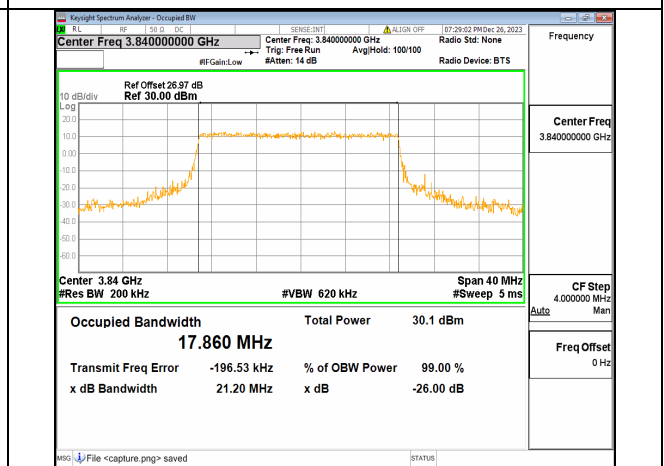
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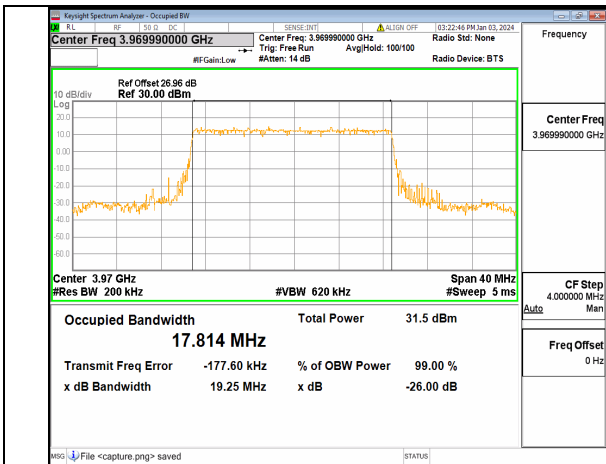
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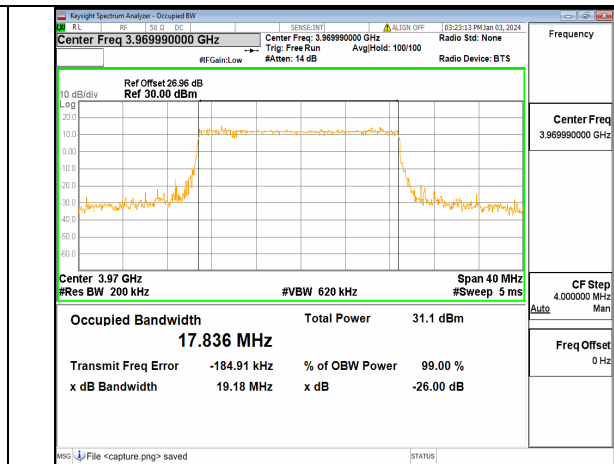
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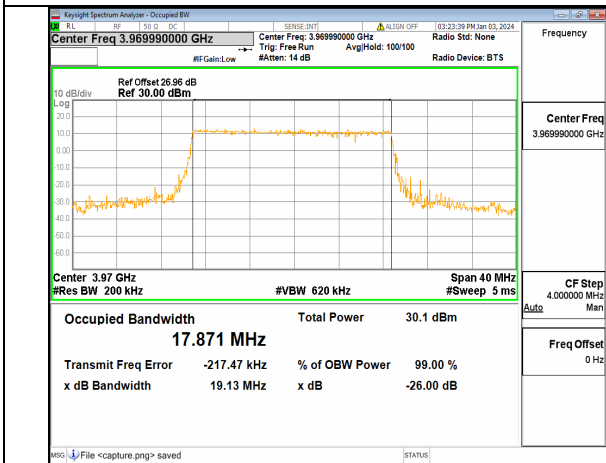
n77(3700-3980MHz) 20M CP-OFDM QPSK Outer_Full Mid



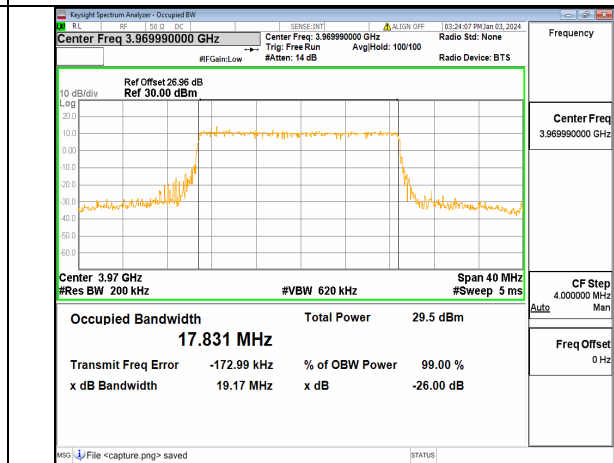
n77(3700-3980MHz) 20M DFT-s-OFDM BPSK Outer_Full High



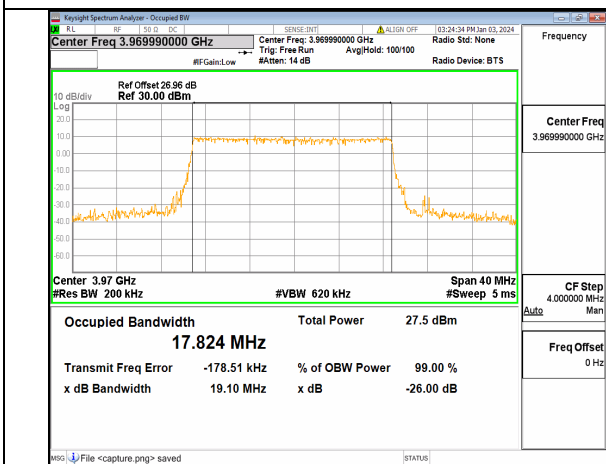
n77(3700-3980MHz) 20M DFT-s-OFDM QPSK Outer_Full High



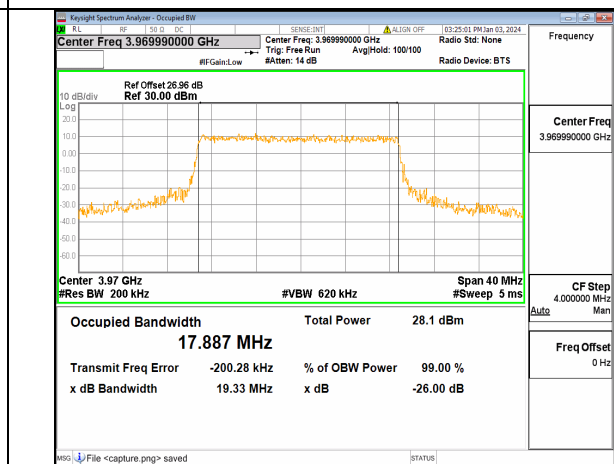
n77(3700-3980MHz) 20M DFT-s-OFDM 16QAM Outer_Full High



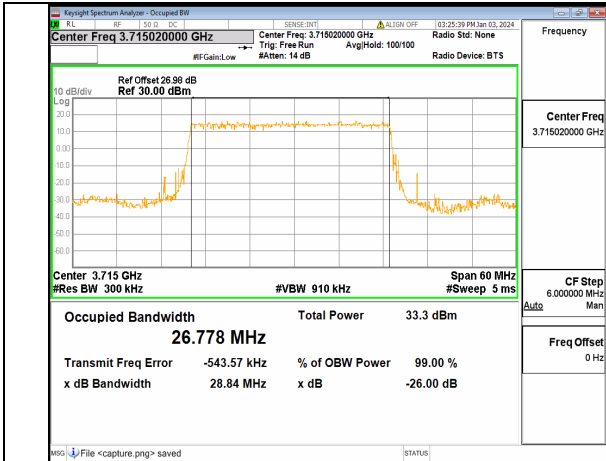
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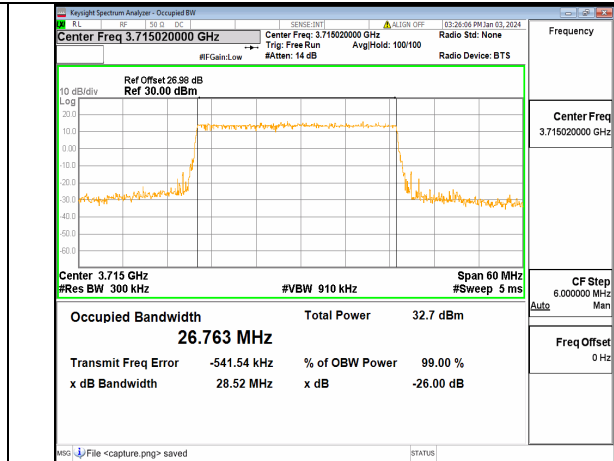
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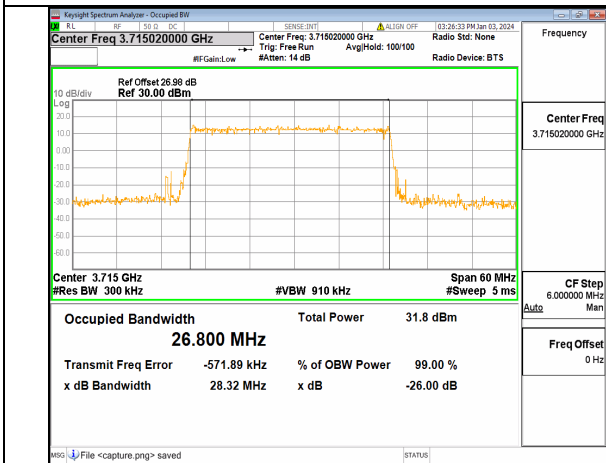
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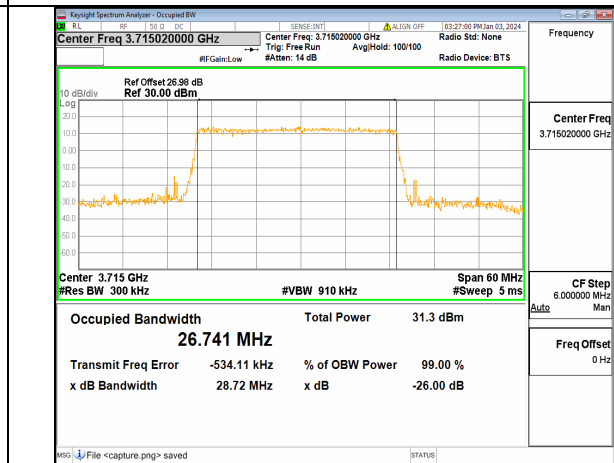
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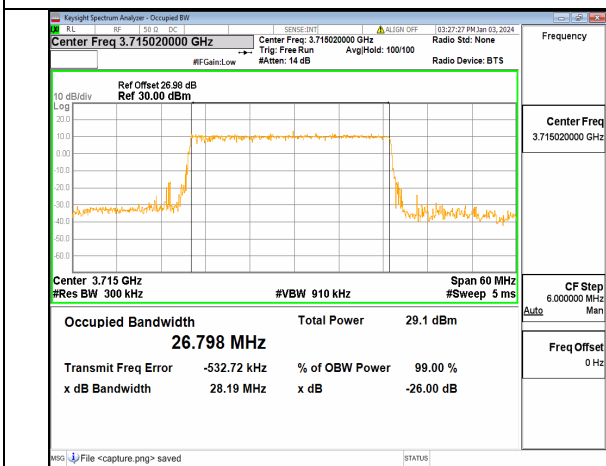
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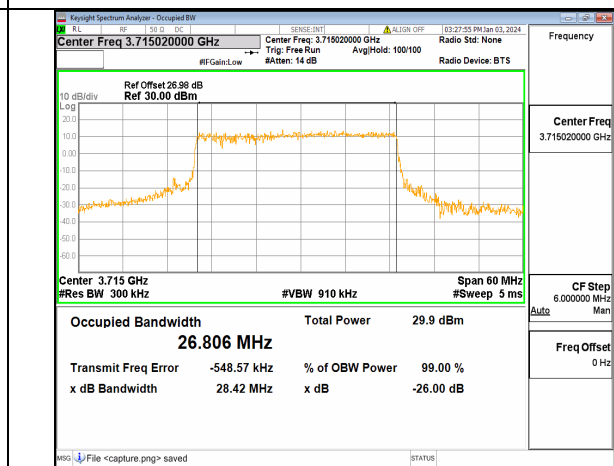
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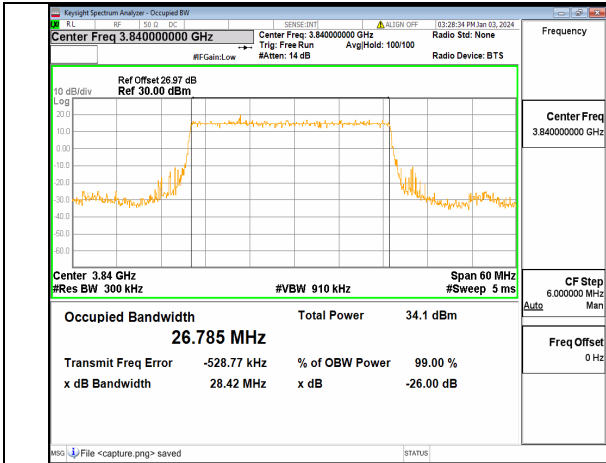
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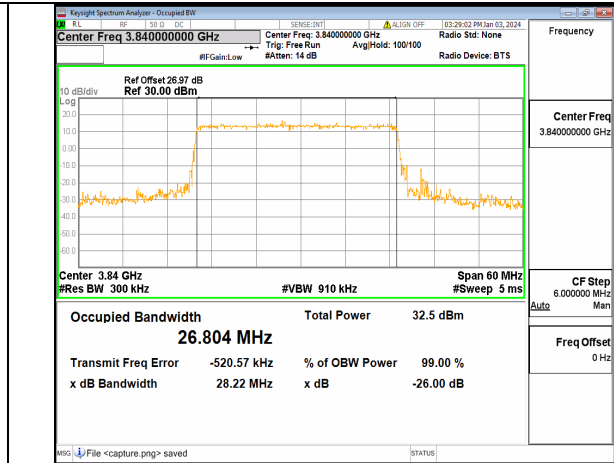
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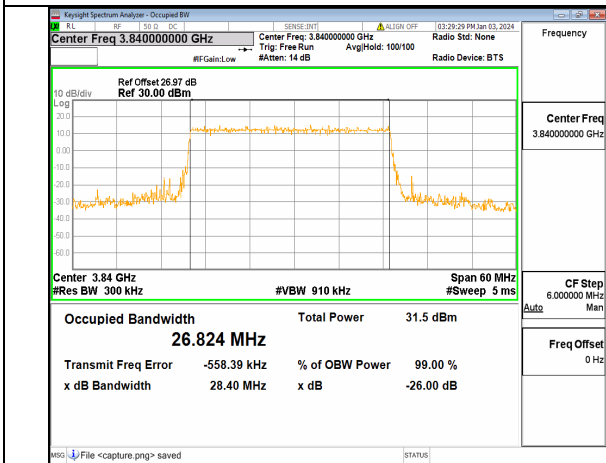
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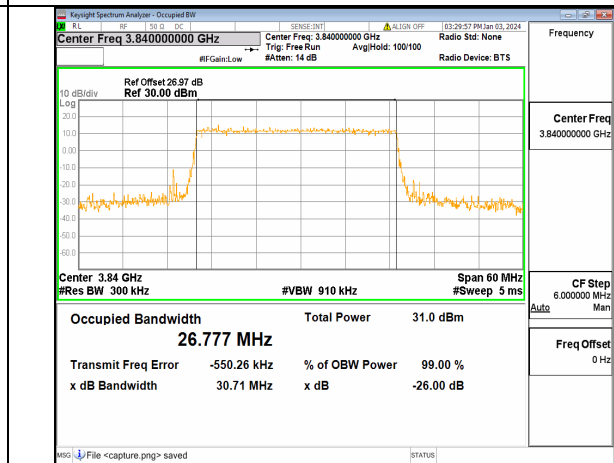
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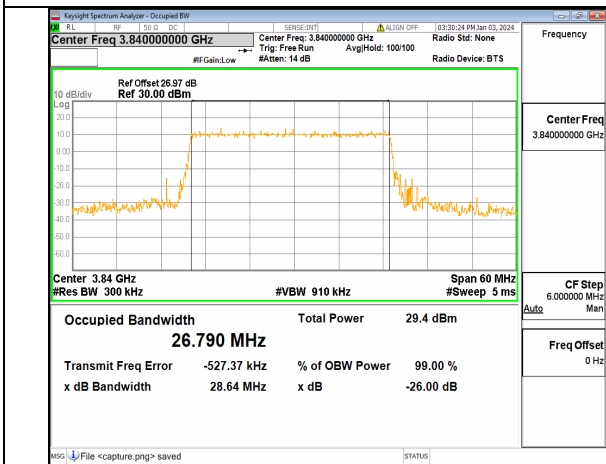
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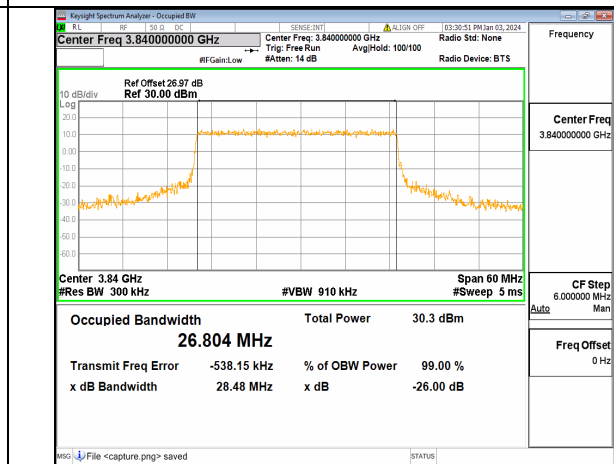
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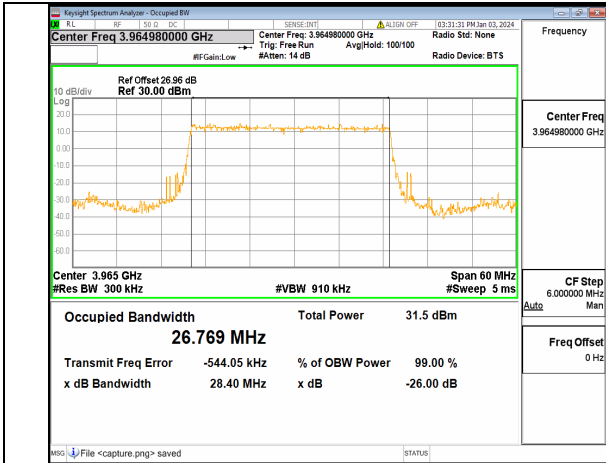
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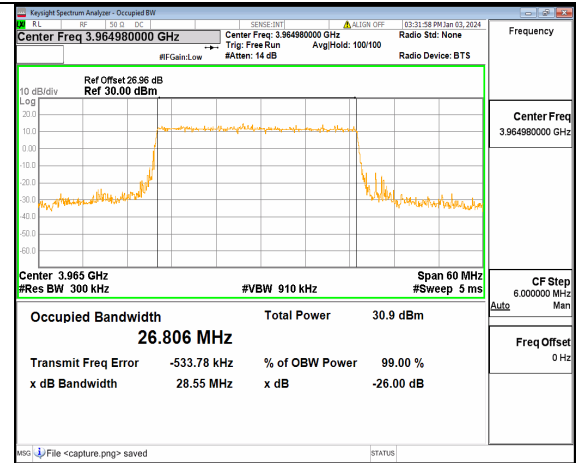
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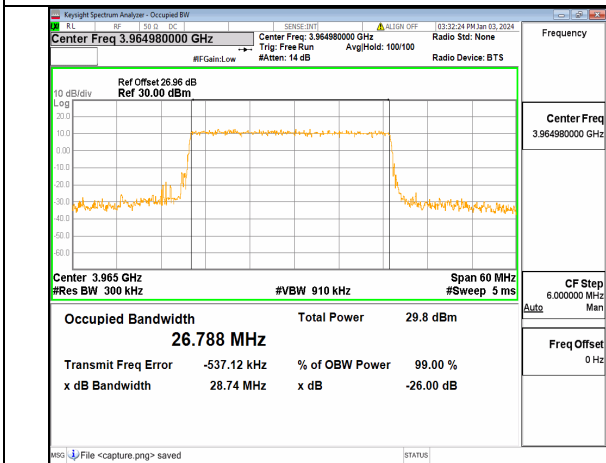
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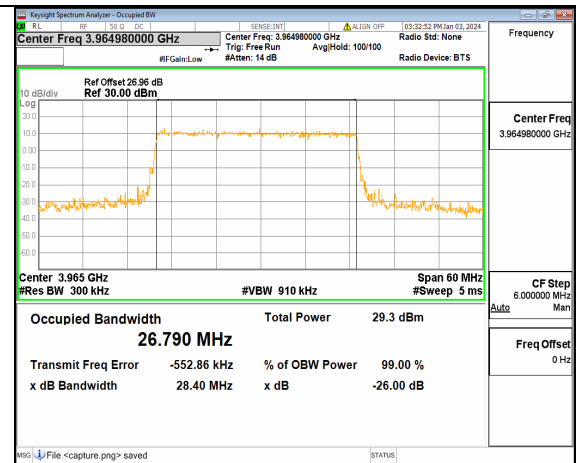
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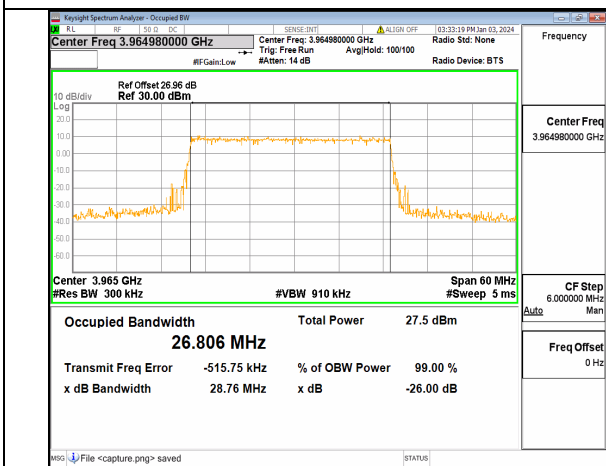
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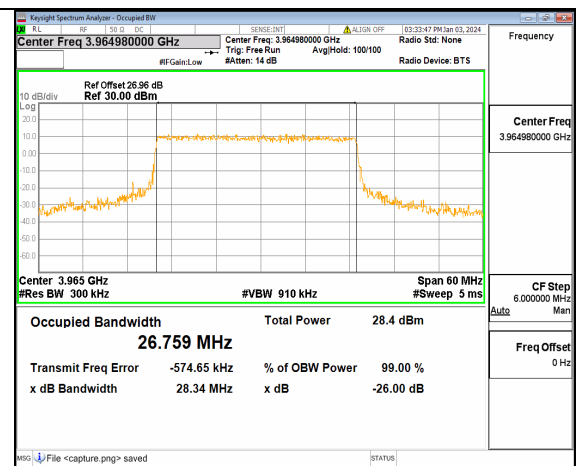
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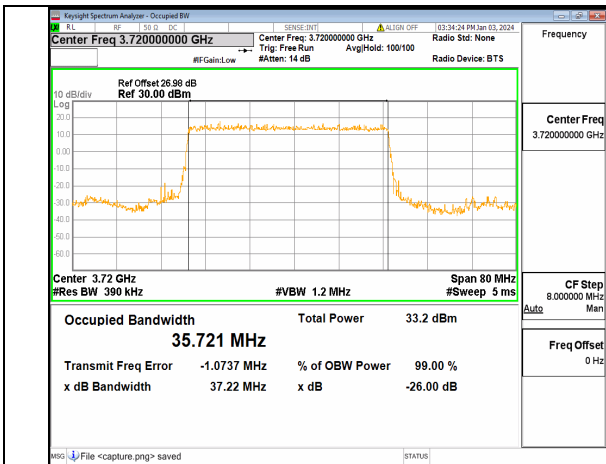
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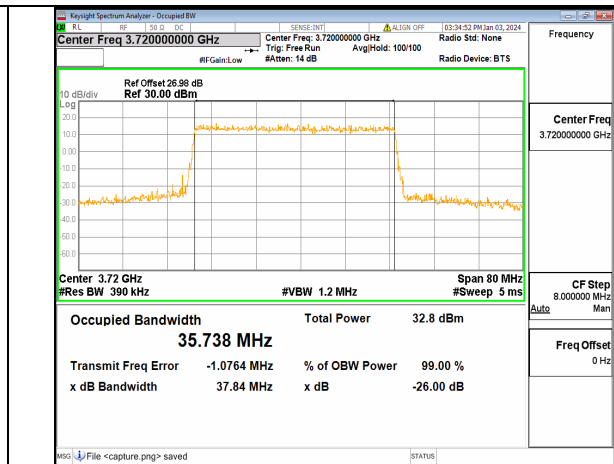
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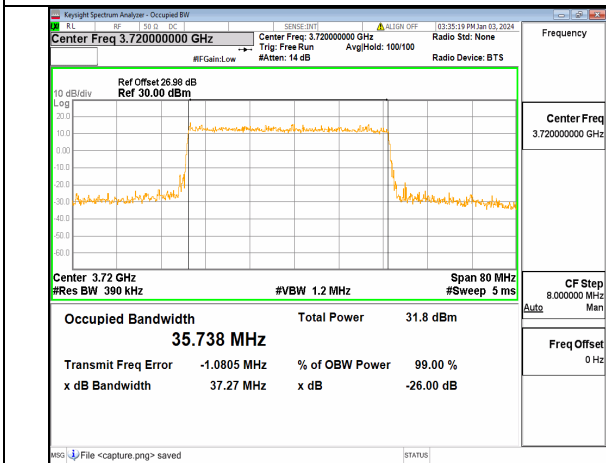
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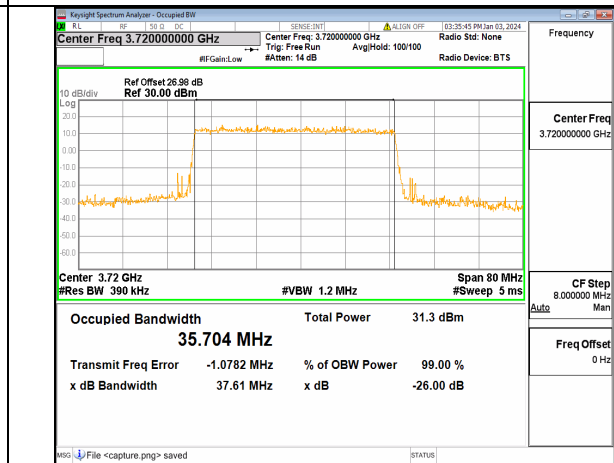
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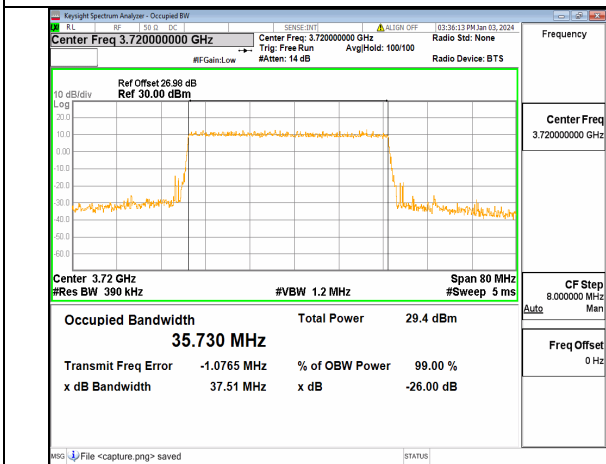
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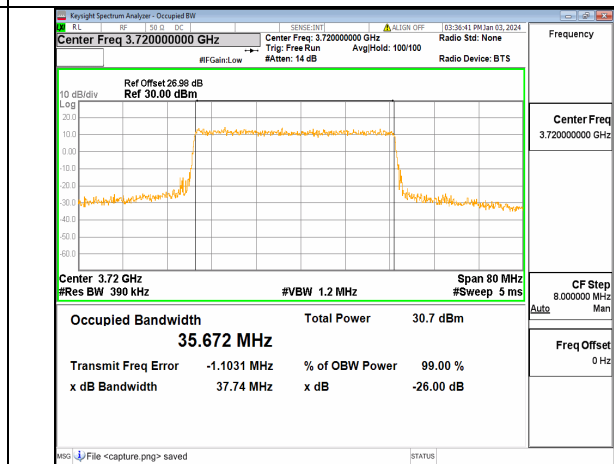
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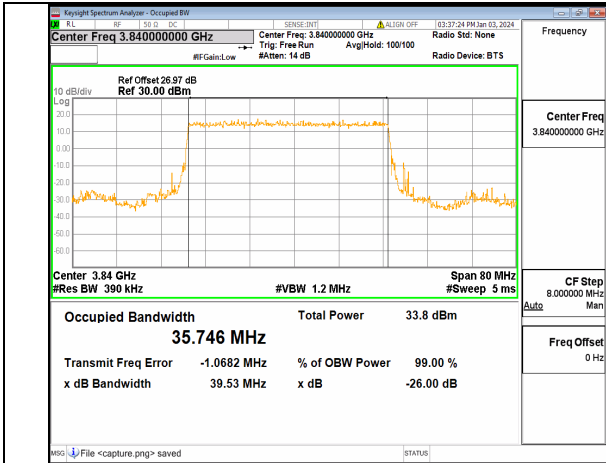
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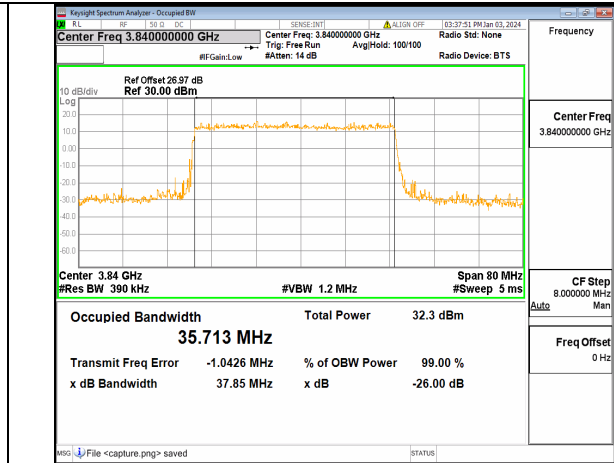
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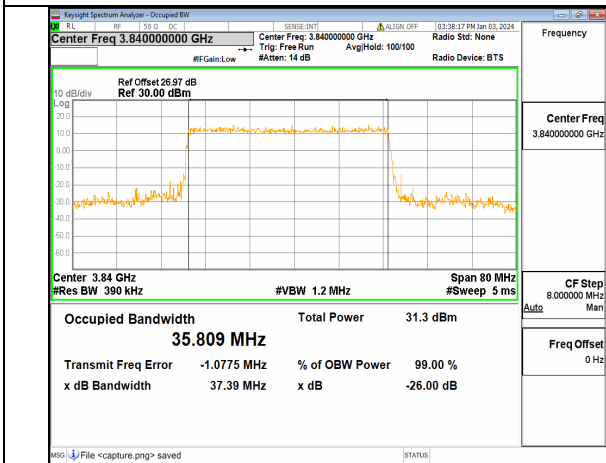
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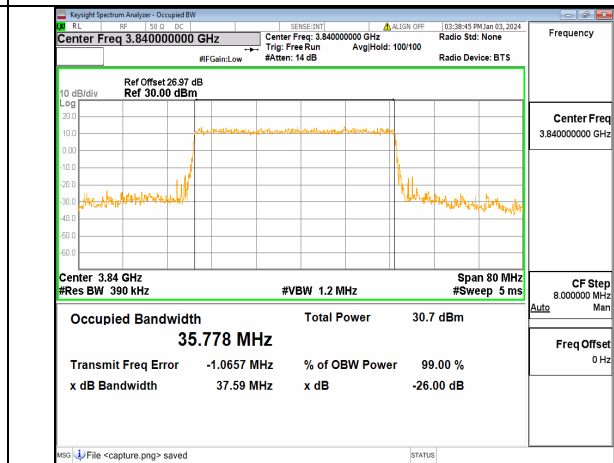
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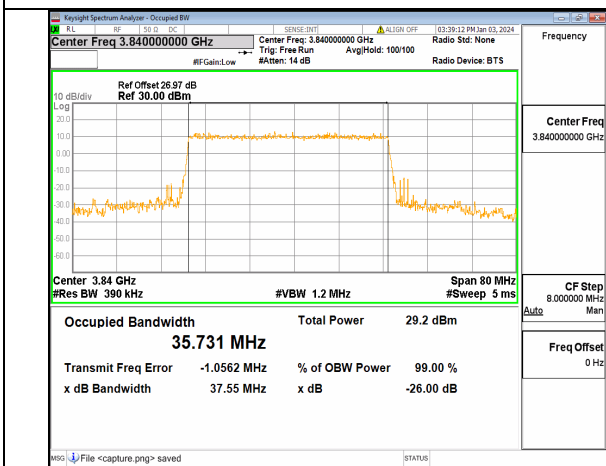
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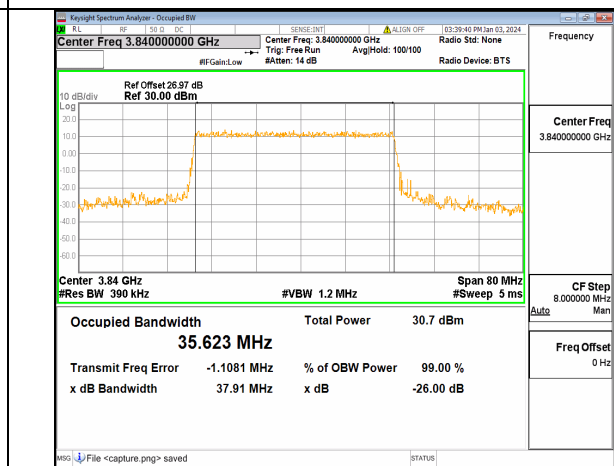
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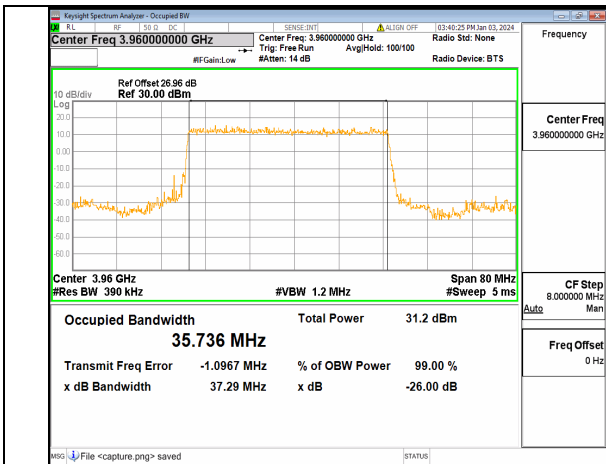
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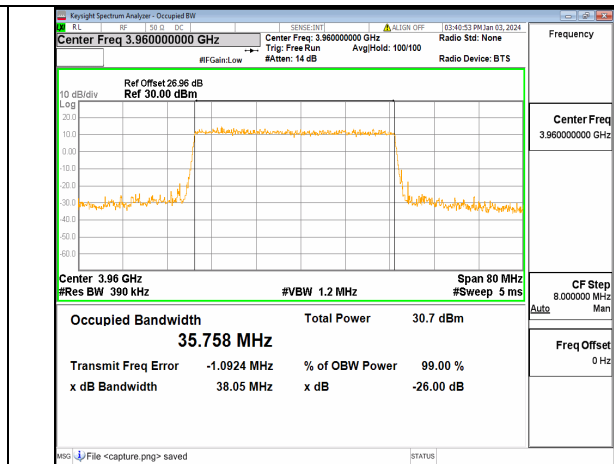
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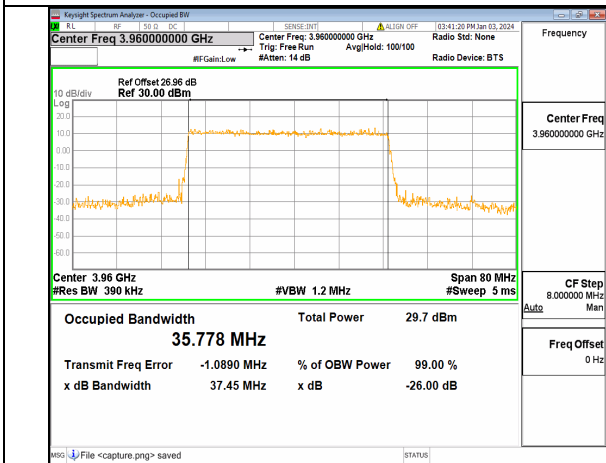
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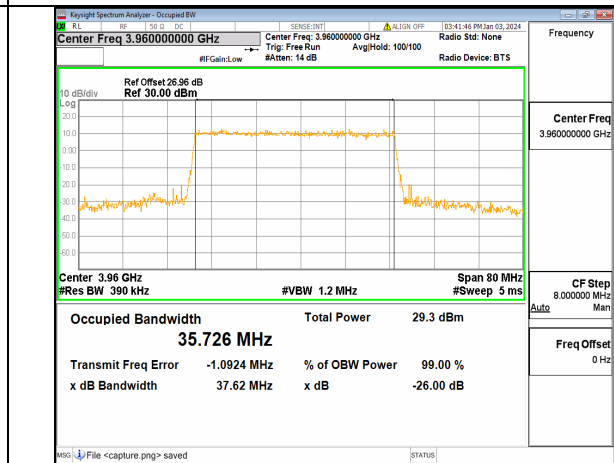
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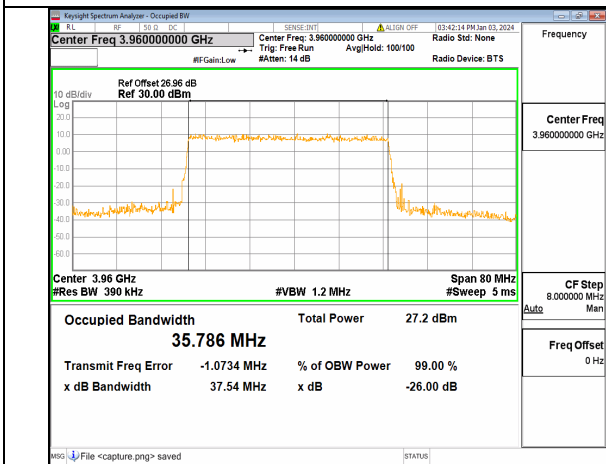
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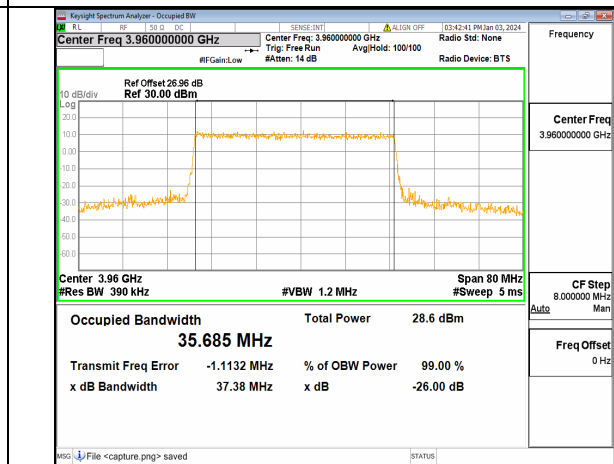
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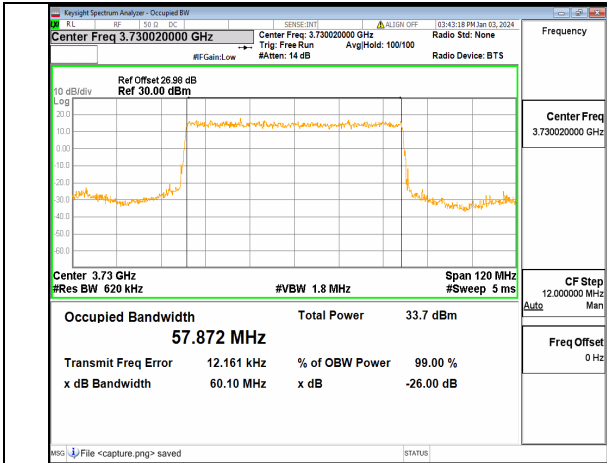
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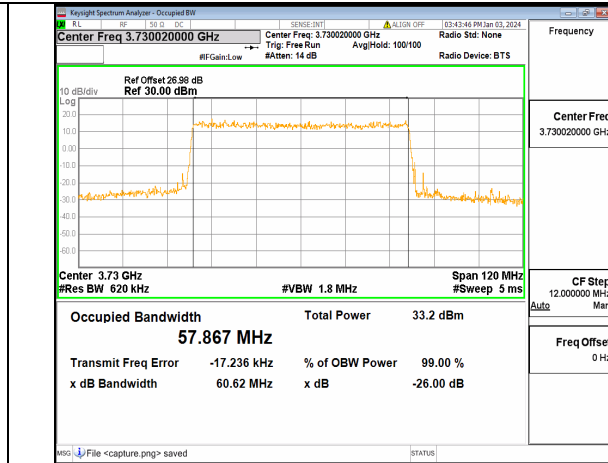
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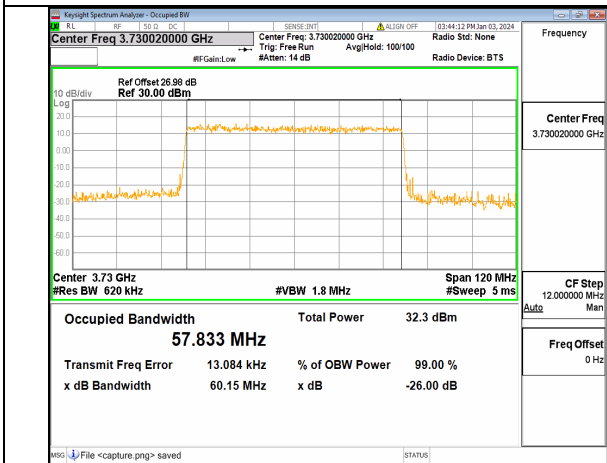
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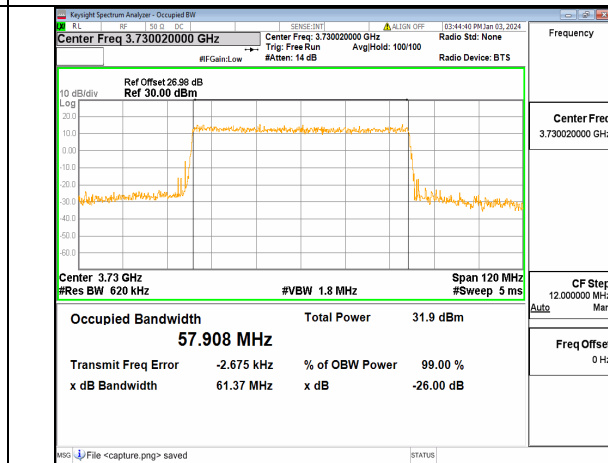
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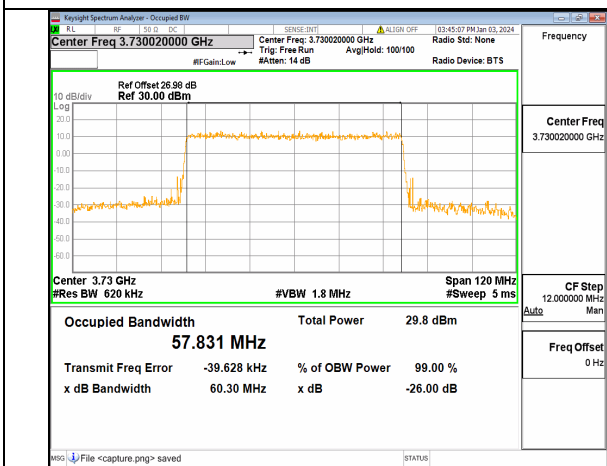
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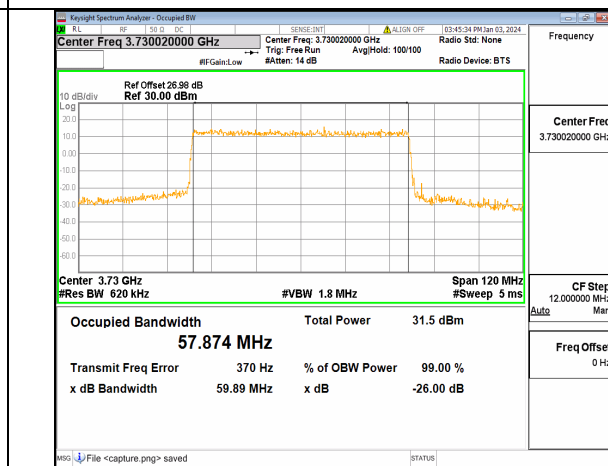
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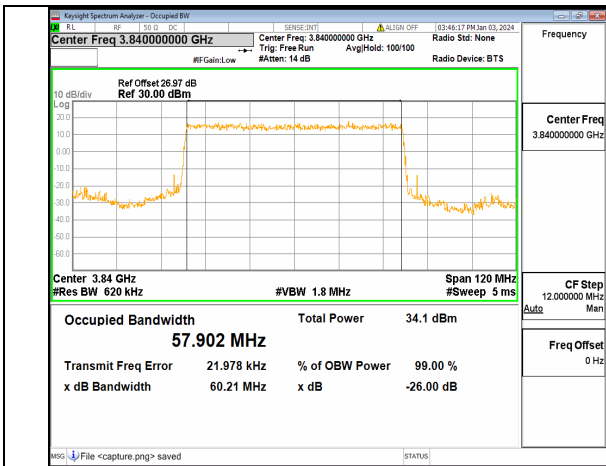
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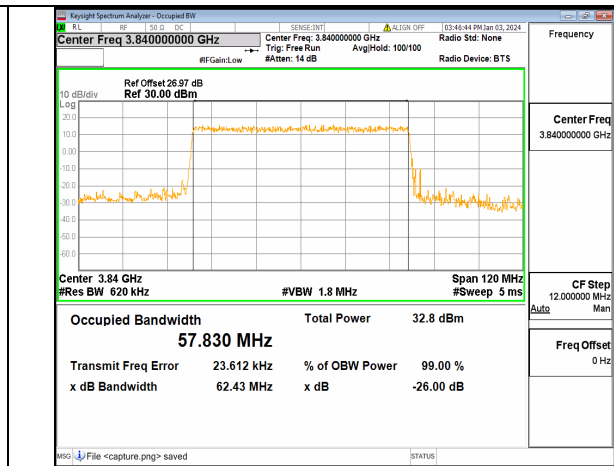
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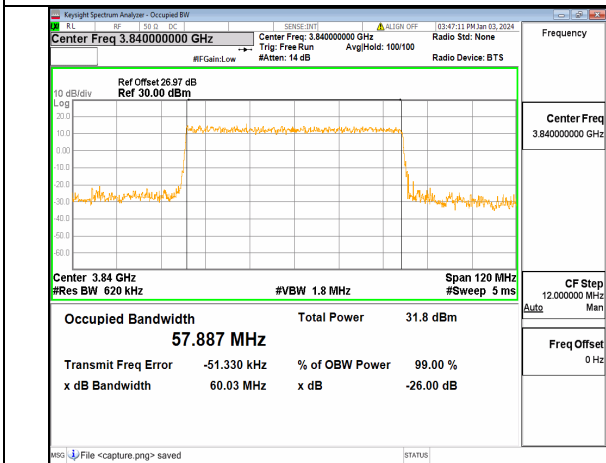
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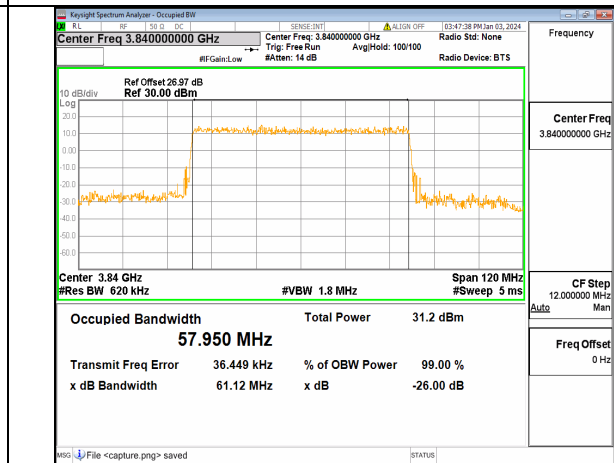
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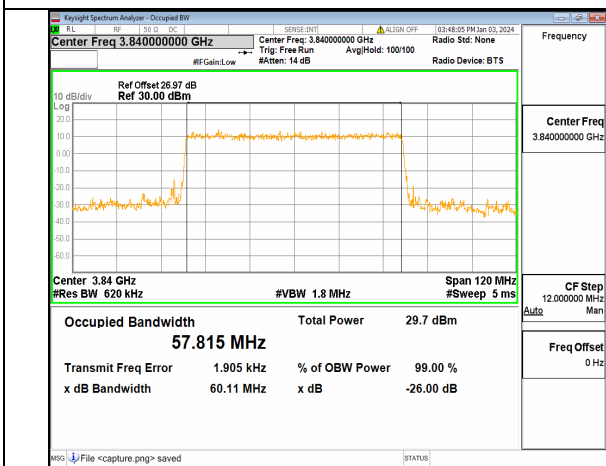
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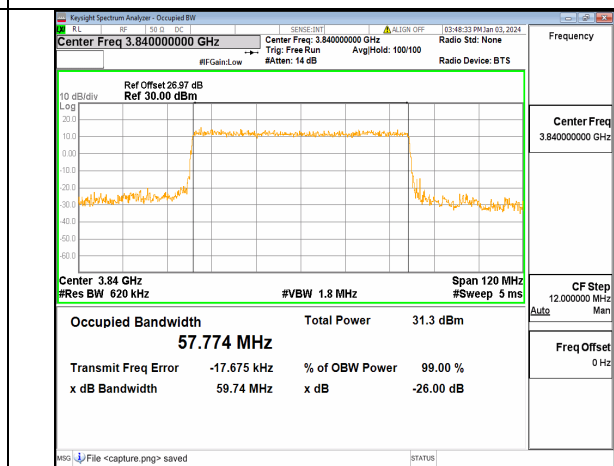
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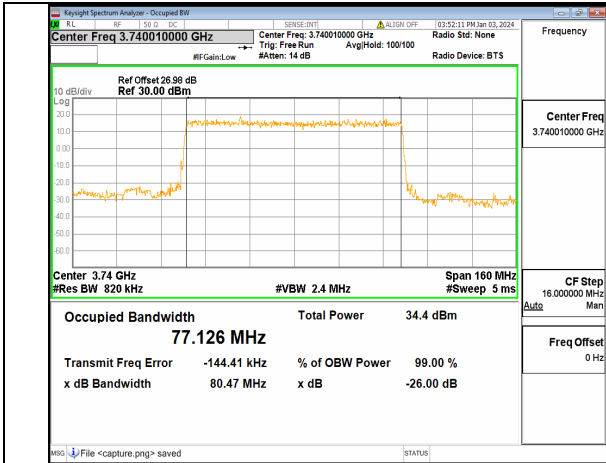
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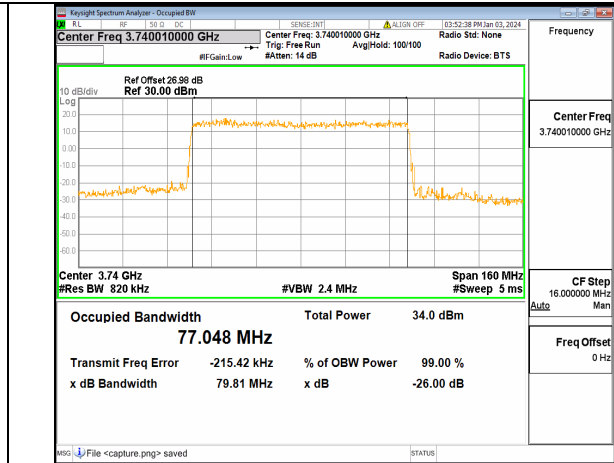
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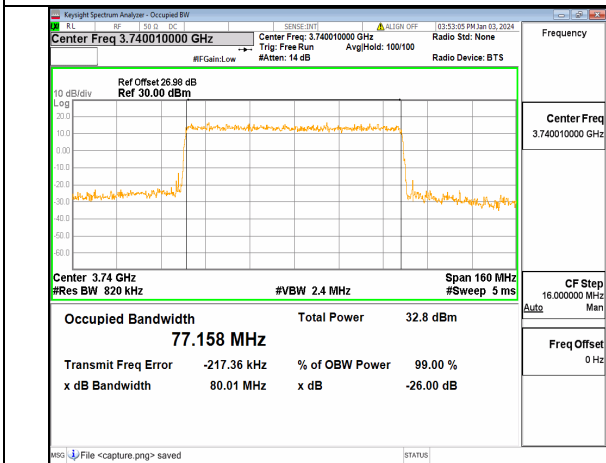
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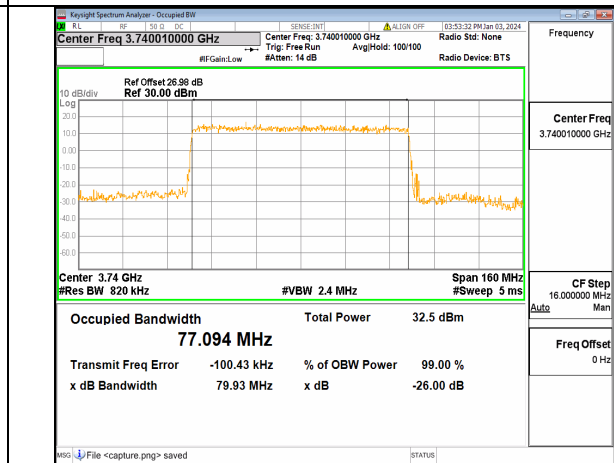
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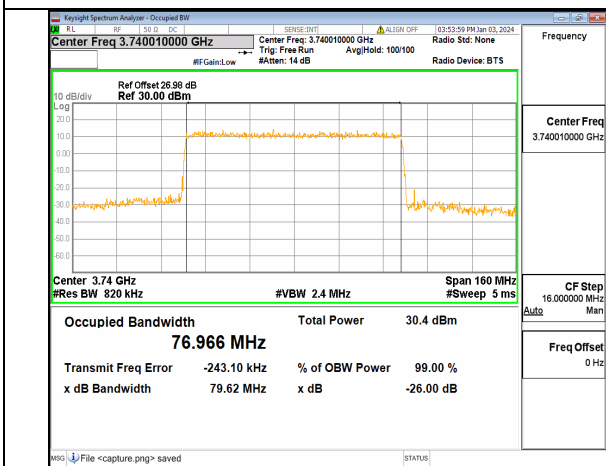
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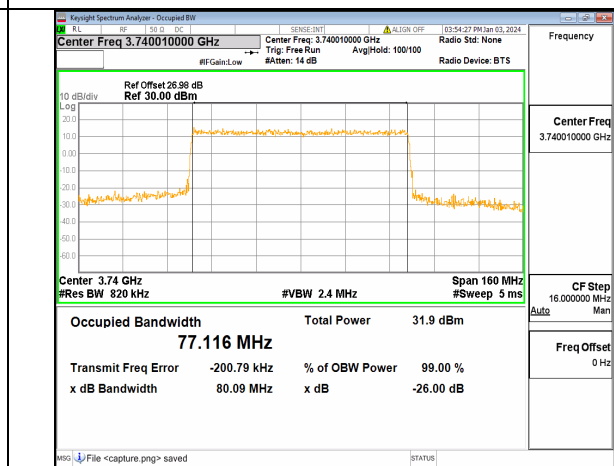
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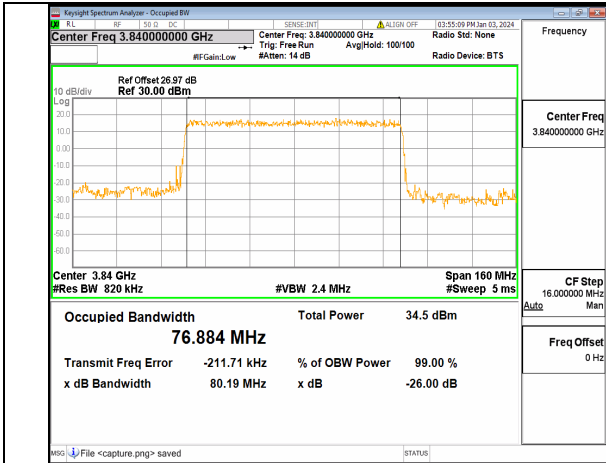
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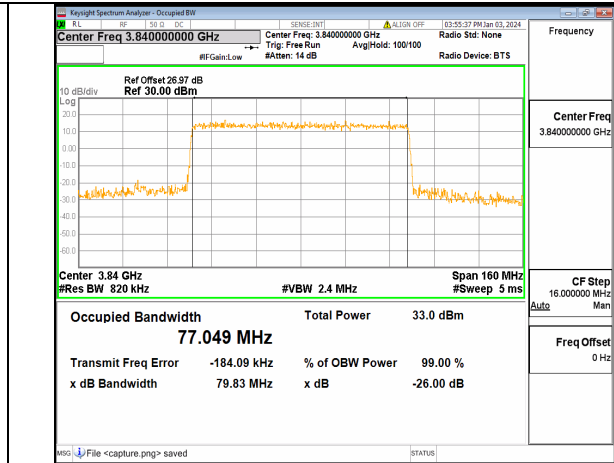
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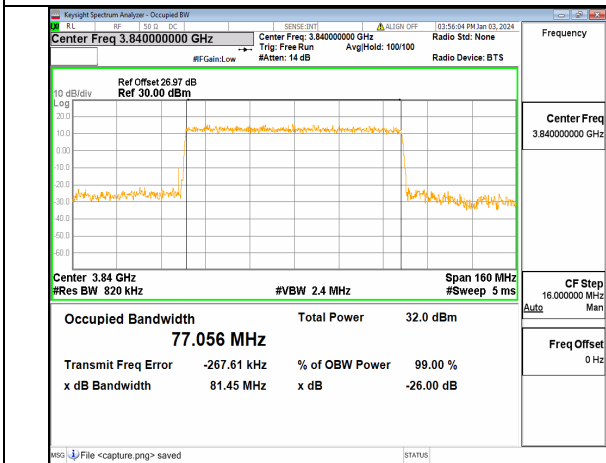
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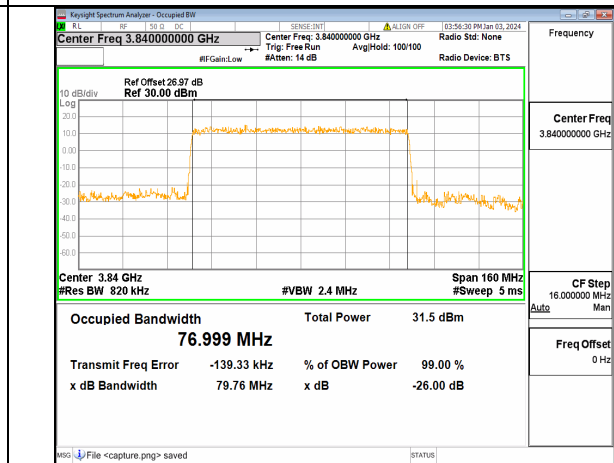
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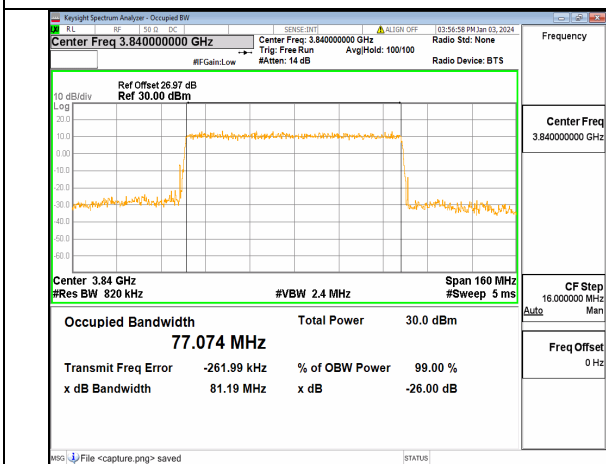
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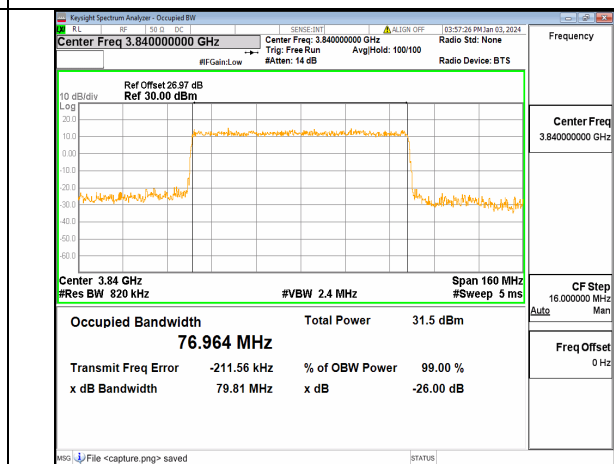
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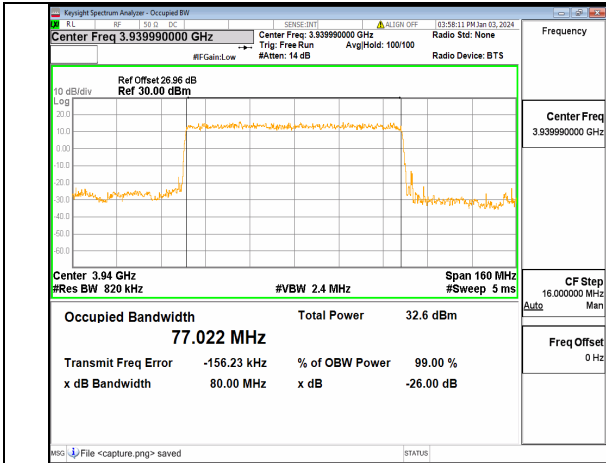
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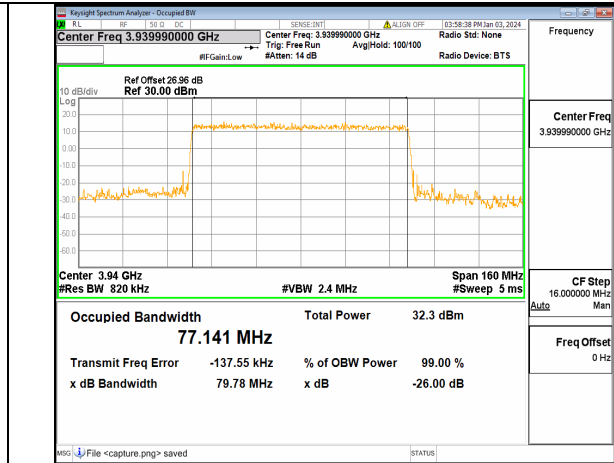
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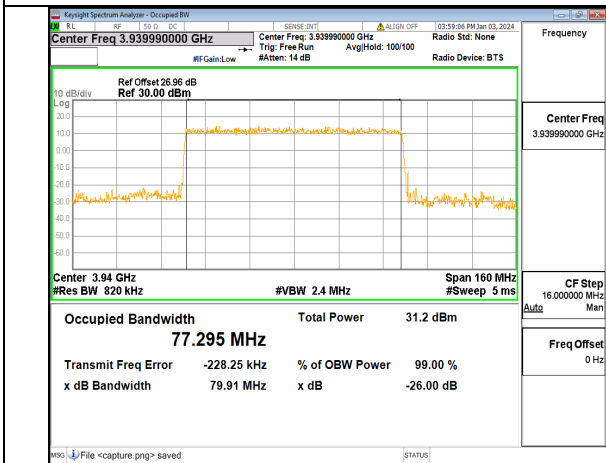
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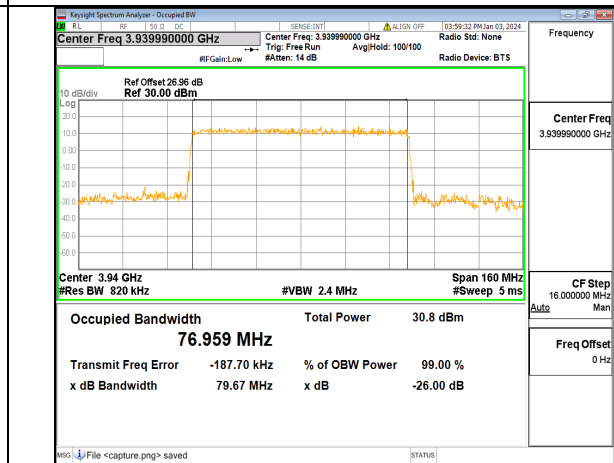
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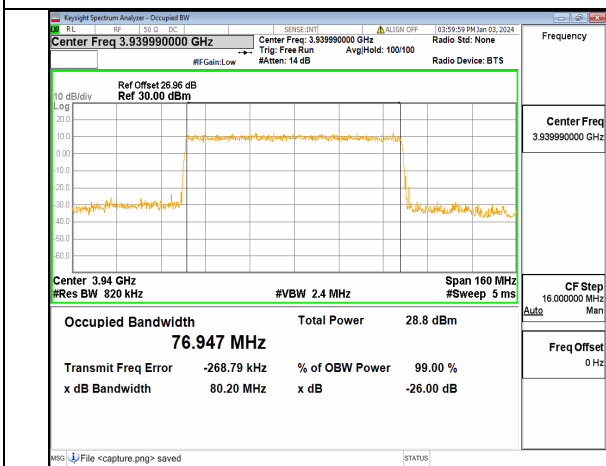
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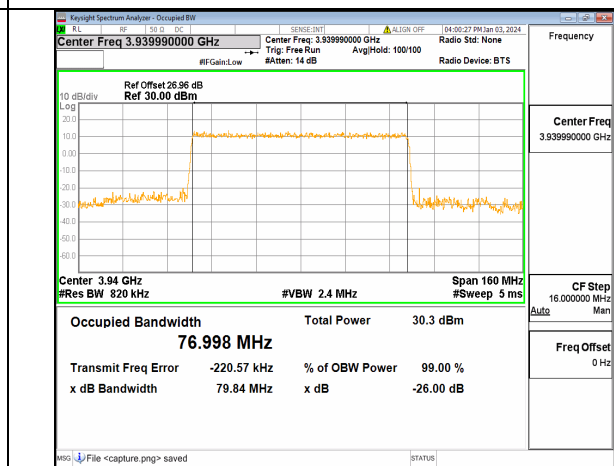
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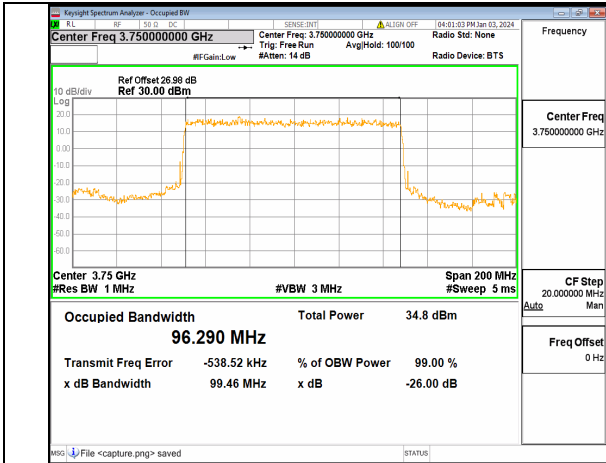
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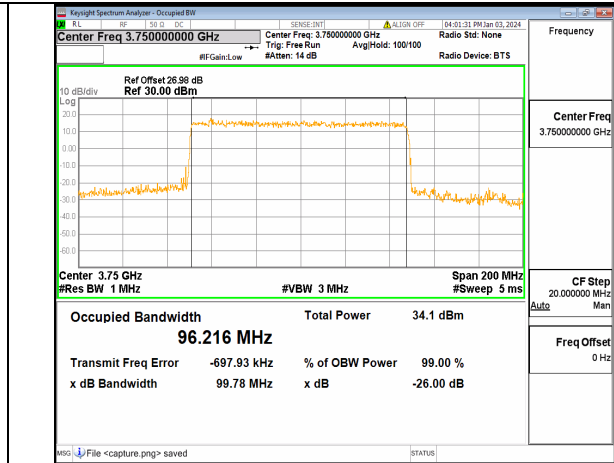
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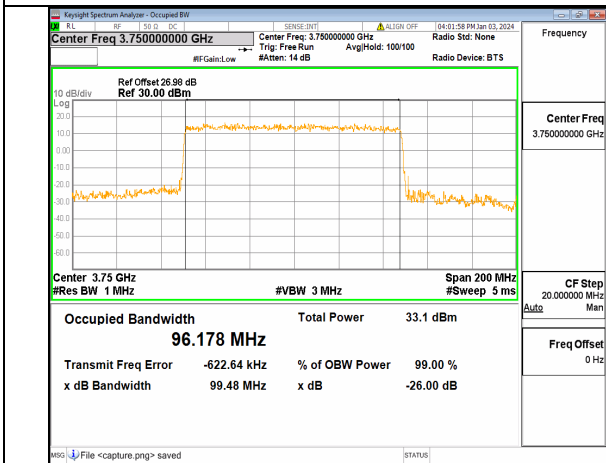
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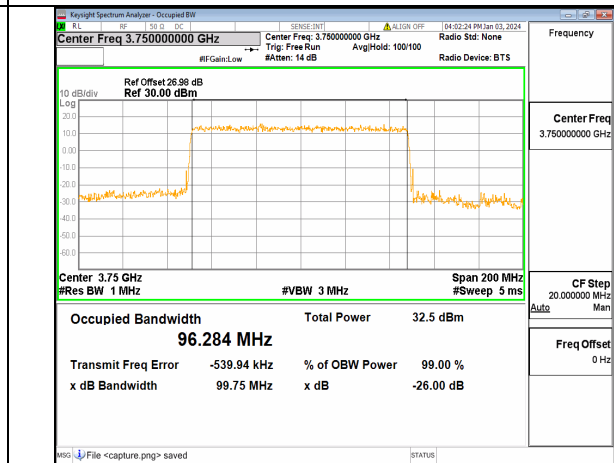
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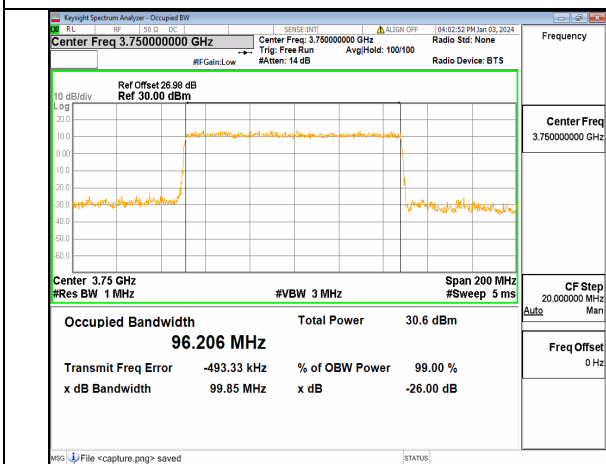
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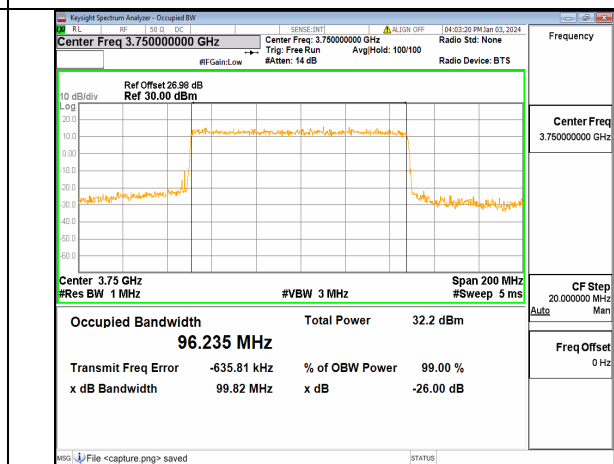
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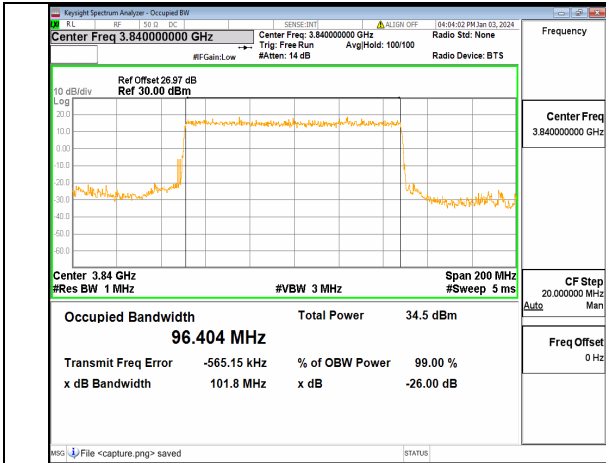
n77(3700-3980MHz) 100M DFT-s-OFDM 64QAM Outer_Full Low



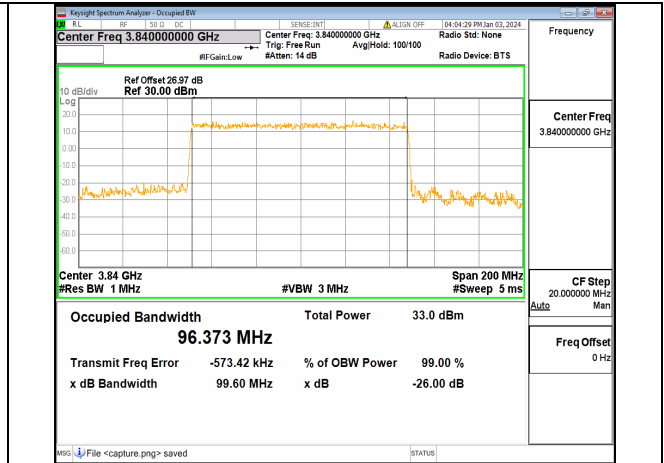
n77(3700-3980MHz) 100M DFT-s-OFDM 256QAM Outer_Full Low



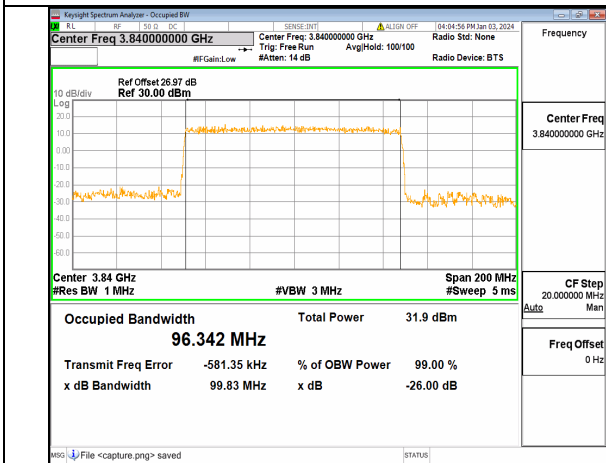
n77(3700-3980MHz) 100M CP-OFDM QPSK Outer_Full Low



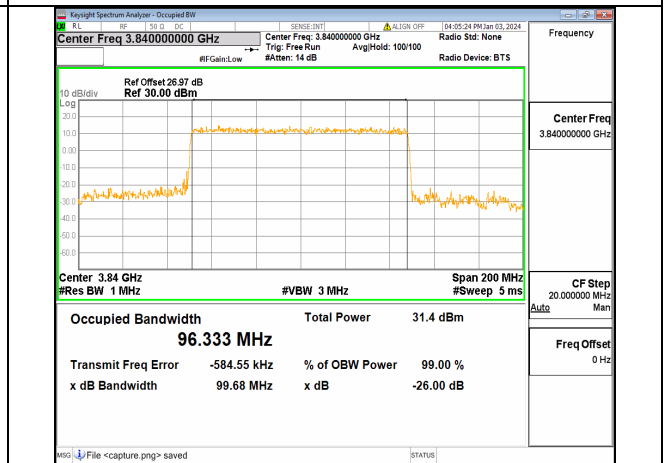
n77(3700-3980MHz) 100M DFT-s-OFDM BPSK Outer_Full Mid



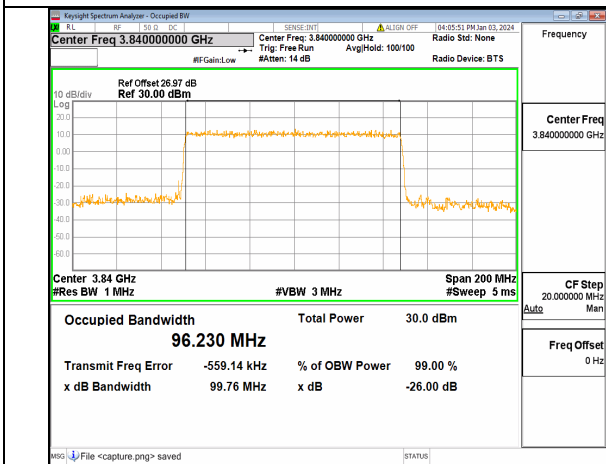
n77(3700-3980MHz) 100M DFT-s-OFDM QPSK Outer_Full Mid



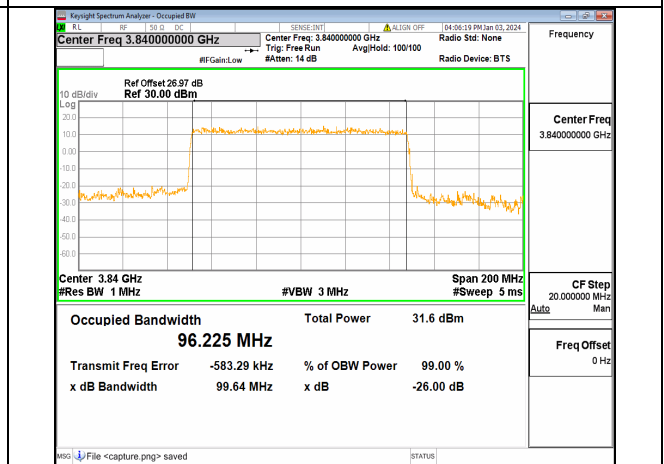
n77(3700-3980MHz) 100M DFT-s-OFDM 16QAM Outer_Full Mid



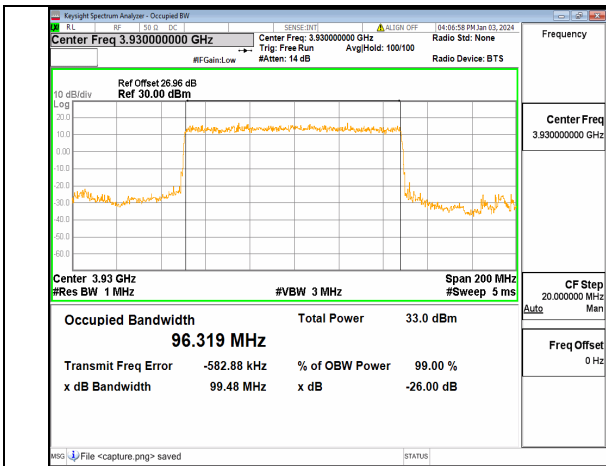
n77(3700-3980MHz) 100M DFT-s-OFDM 64QAM Outer_Full Mid



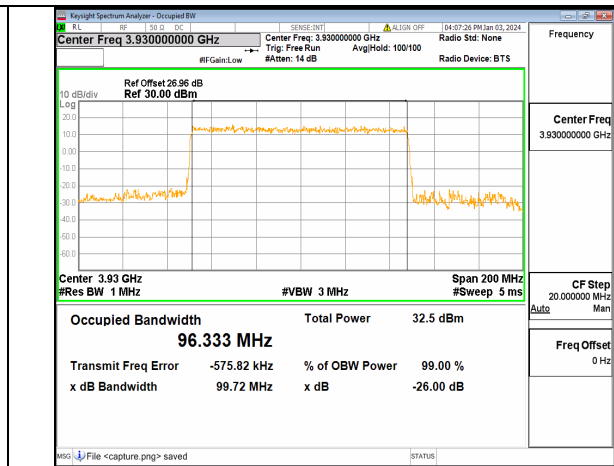
n77(3700-3980MHz) 100M DFT-s-OFDM 256QAM Outer_Full Mid



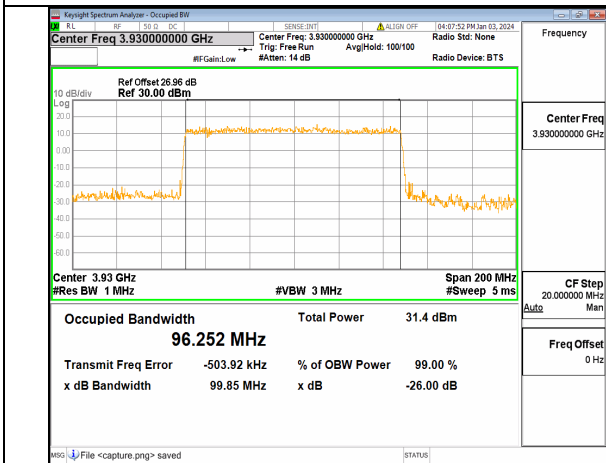
n77(3700-3980MHz) 100M CP-OFDM QPSK Outer_Full Mid



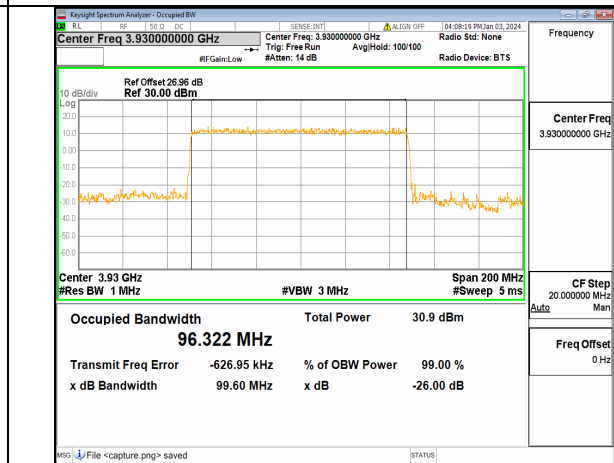
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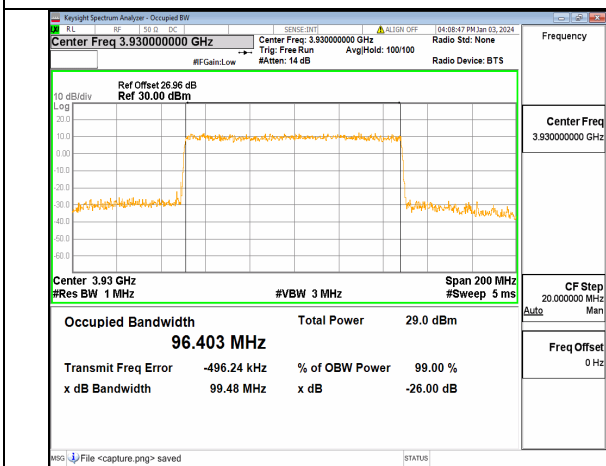
n77(3700-3980MHz) 100M DFT-s-OFDM QPSK Outer_Full High



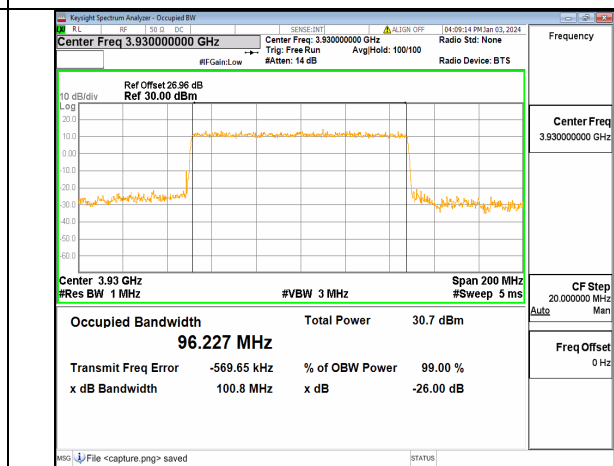
n77(3700-3980MHz) 100M DFT-s-OFDM 16QAM Outer_Full High



n77(3700-3980MHz) 100M DFT-s-OFDM 64QAM Outer_Full High



n77(3700-3980MHz) 100M DFT-s-OFDM 256QAM Outer_Full High



n77(3700-3980MHz) 100M CP-OFDM QPSK Outer_Full High



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2.3. Frequency Stability

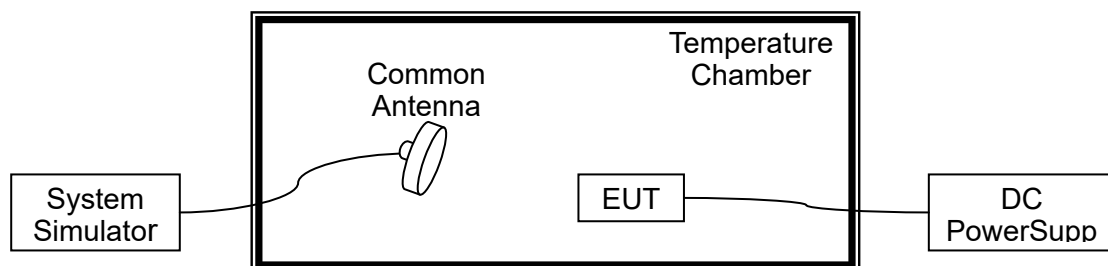
2.3.1. Requirement

According to FCC section 2.1055, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

Note: The operating temperature of EUT is from -20°C to 55°C , which are specified by the applicant.

2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

2.3.3. Test procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.

2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.87VDC, 4.45VDC and 3.6VDC, which are specified by the applicant; the normal temperature here used is 20°C .



NR n2, QPSK, Channel 376000, SCS 15kHz, Frequency 1880.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.87	+20(Ref)	14	0.007	PASS
Normal		0	16	0.009	
Normal		+10	18	0.010	
Normal		+20	15	0.008	
Normal		+30	23	0.012	
Normal		+40	21	0.011	
Normal		+45	-8	-0.004	
High	4.45	+20	16	0.009	
BATT.ENDPOINT	3.60	+20	17	0.009	

NR n5, QPSK, Channel 167300, SCS 15kHz, Frequency 836.5 MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.87	+20(Ref)	15	0.018	PASS
Normal		0	-14	-0.017	
Normal		+10	16	0.019	
Normal		+20	-14	-0.017	
Normal		+30	23	0.027	
Normal		+40	9	0.011	
Normal		+45	20	0.024	
High	4.45	+20	2	0.002	
BATT.ENDPOINT	3.60	+20	14	0.017	

NR n48, QPSK, Channel 641666, SCS 30kHz, Frequency 3624.99MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.87	+20(Ref)	3	0.001	PASS
Normal		0	13	0.004	
Normal		+10	14	0.004	
Normal		+20	19	0.005	
Normal		+30	13	0.004	
Normal		+40	20	0.006	
Normal		+45	13	0.004	
High	4.45	+20	17	0.005	
BATT.ENDPOINT	3.60	+20	-21	-0.006	



NR n66, QPSK, Channel 349000, SCS 15kHz, Frequency 1745MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.87	+20(Ref)	18	0.010	PASS
Normal		0	15	0.009	
Normal		+10	-4	-0.002	
Normal		+20	15	0.009	
Normal		+30	14	0.008	
Normal		+40	19	0.011	
Normal		+45	13	0.007	
High	4.45	+20	-7	-0.004	
BATT.ENDPOINT	3.60	+20	15	0.009	

NR n77(3700 MHz ~ 3980 MHz), QPSK, Channel 656000, SCS 30kHz, Frequency 3840MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.87	+20(Ref)	17	0.004	PASS
Normal		0	-19	-0.005	
Normal		+10	-18	-0.005	
Normal		+20	8	0.002	
Normal		+30	18	0.005	
Normal		+40	16	0.004	
Normal		+45	20	0.005	
High	4.45	+20	-8	-0.002	
BATT.ENDPOINT	3.60	+20	5	0.001	

NR n77 (3450 MHz ~ 3550 MHz), QPSK, Channel 633334, SCS 30kHz, Frequency 3550MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.87	+20(Ref)	14	0.004	PASS
Normal		0	13	0.004	
Normal		+10	-4	-0.001	
Normal		+20	16	0.005	
Normal		+30	16	0.005	
Normal		+40	-5	-0.001	
Normal		+45	20	0.006	
High	4.45	+20	-5	-0.001	
BATT.ENDPOINT	3.60	+20	13	0.004	

2.4. Peak to Average Ratio

2.4.1. Requirement

According to FCC section 24.232(d) for n2, n25, in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

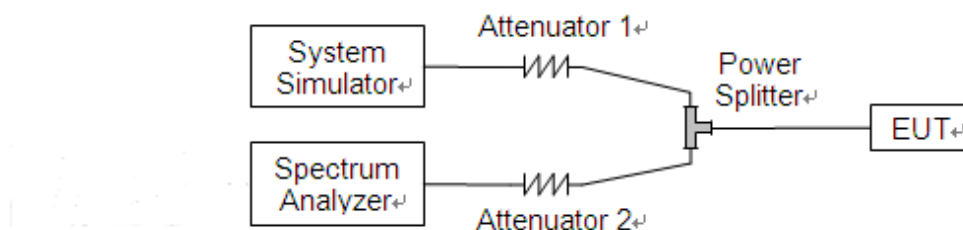
According to FCC section 96.41(g) for n48, the peak-to-average power ratio (PAPR) of any CBSD transmitter output power must not exceed 13 dB. PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities or another Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

According to FCC section 27.50(d)(5) for n66, in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

According to FCC section 27.50(j)(4) and 25.50(k)(4) for n77, in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

2.4.2. Test Description

Test Set:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.4.3. Test procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

2.4.4. Test Result

Record the maximum PAPR level associated with a probability of 0.1%.

Note: In the same NR frequency band, The measured power in SA mode is higher than that in NSA mode, SA mode is selected to test all test cases.

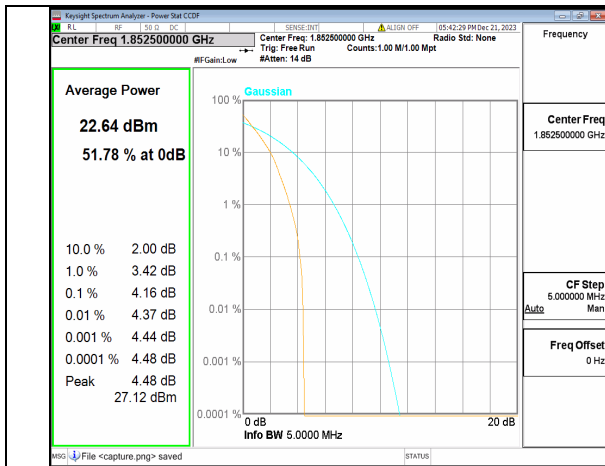
Band	SCS (kHz)	BW (MHz)	ARFCN	Modulation	RB	Result (dB)	Limit (dB)	Verdict
n2	15	5	370500	DFT-s-OFDM PI/2 BPSK	25/0	4.16	13	PASS
n2	15	5	370500	DFT-s-OFDM 256QAM	25/0	6.82	13	PASS
n2	15	5	370500	CP-OFDM QPSK	25/0	7.1	13	PASS
n2	15	5	370500	CP-OFDM 256QAM	25/0	8.53	13	PASS
n2	15	5	376000	DFT-s-OFDM PI/2 BPSK	25/0	4.02	13	PASS
n2	15	5	376000	DFT-s-OFDM 256QAM	25/0	6.38	13	PASS
n2	15	5	376000	CP-OFDM QPSK	25/0	7.56	13	PASS
n2	15	5	376000	CP-OFDM 256QAM	25/0	8.65	13	PASS
n2	15	5	381500	DFT-s-OFDM PI/2 BPSK	25/0	4.42	13	PASS
n2	15	5	381500	DFT-s-OFDM 256QAM	25/0	6.54	13	PASS
n2	15	5	381500	CP-OFDM QPSK	25/0	7.58	13	PASS
n2	15	5	381500	CP-OFDM 256QAM	25/0	8.5	13	PASS
n2	15	10	371000	DFT-s-OFDM PI/2 BPSK	50/0	4.43	13	PASS
n2	15	10	371000	DFT-s-OFDM 256QAM	50/0	6.76	13	PASS
n2	15	10	371000	CP-OFDM QPSK	52/0	7.17	13	PASS
n2	15	10	371000	CP-OFDM 256QAM	52/0	8.62	13	PASS
n2	15	10	376000	DFT-s-OFDM PI/2 BPSK	50/0	4.55	13	PASS
n2	15	10	376000	DFT-s-OFDM 256QAM	50/0	6.76	13	PASS



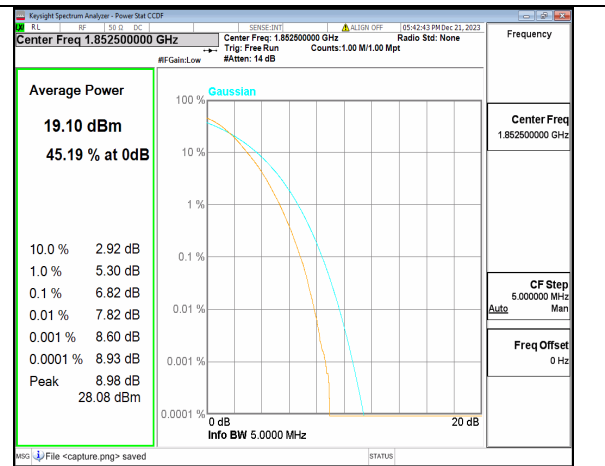
n2	15	10	376000	CP-OFDM QPSK	52/0	7.58	13	PASS
n2	15	10	376000	CP-OFDM 256QAM	52/0	8.57	13	PASS
n2	15	10	381000	DFT-s-OFDM PI/2 BPSK	50/0	4.33	13	PASS
n2	15	10	381000	DFT-s-OFDM 256QAM	50/0	6.79	13	PASS
n2	15	10	381000	CP-OFDM QPSK	52/0	7.45	13	PASS
n2	15	10	381000	CP-OFDM 256QAM	52/0	8.76	13	PASS
n2	15	15	371500	DFT-s-OFDM PI/2 BPSK	75/0	4.26	13	PASS
n2	15	15	371500	DFT-s-OFDM 256QAM	75/0	6.63	13	PASS
n2	15	15	371500	CP-OFDM QPSK	79/0	7.54	13	PASS
n2	15	15	371500	CP-OFDM 256QAM	79/0	8.22	13	PASS
n2	15	15	376000	DFT-s-OFDM PI/2 BPSK	75/0	4.36	13	PASS
n2	15	15	376000	DFT-s-OFDM 256QAM	75/0	6.54	13	PASS
n2	15	15	376000	CP-OFDM QPSK	79/0	7.37	13	PASS
n2	15	15	376000	CP-OFDM 256QAM	79/0	8.31	13	PASS
n2	15	15	380500	DFT-s-OFDM PI/2 BPSK	75/0	4.22	13	PASS
n2	15	15	380500	DFT-s-OFDM 256QAM	75/0	6.5	13	PASS
n2	15	15	380500	CP-OFDM QPSK	79/0	7.19	13	PASS
n2	15	15	380500	CP-OFDM 256QAM	79/0	8.31	13	PASS
n2	15	20	372000	DFT-s-OFDM PI/2 BPSK	100/0	4.4	13	PASS
n2	15	20	372000	DFT-s-OFDM 256QAM	100/0	6.62	13	PASS
n2	15	20	372000	CP-OFDM QPSK	106/0	7.42	13	PASS
n2	15	20	372000	CP-OFDM 256QAM	106/0	8.19	13	PASS
n2	15	20	376000	DFT-s-OFDM PI/2 BPSK	100/0	4.31	13	PASS
n2	15	20	376000	DFT-s-OFDM 256QAM	100/0	6.69	13	PASS



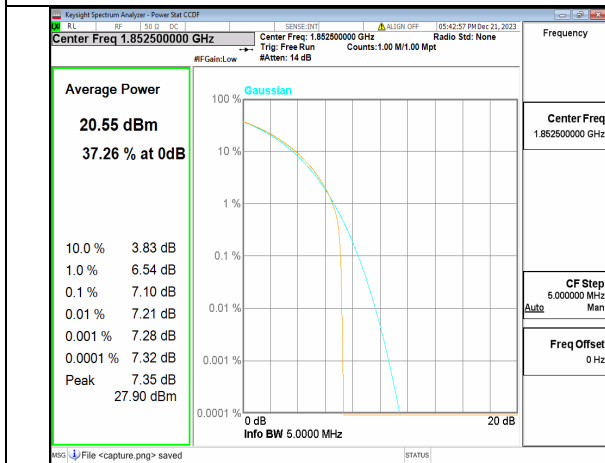
n2	15	20	376000	CP-OFDM QPSK	106/0	7.37	13	PASS
n2	15	20	376000	CP-OFDM 256QAM	106/0	8.38	13	PASS
n2	15	20	380000	DFT-s-OFDM PI/2 BPSK	100/0	4.45	13	PASS
n2	15	20	380000	DFT-s-OFDM 256QAM	100/0	6.55	13	PASS
n2	15	20	380000	CP-OFDM QPSK	106/0	7.29	13	PASS
n2	15	20	380000	CP-OFDM 256QAM	106/0	8.3	13	PASS



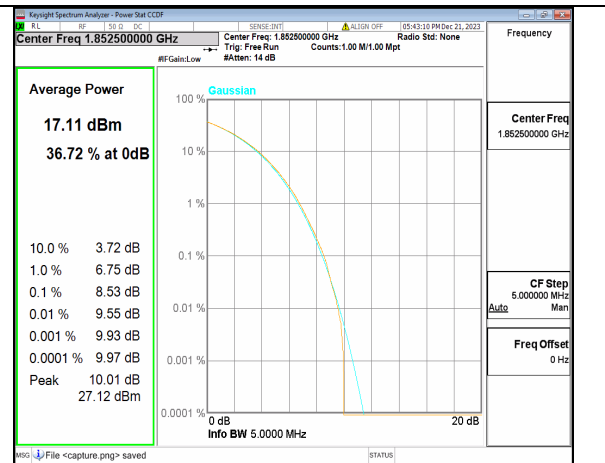
n2 5M DFT-s-OFDM BPSK Outer_Full Low



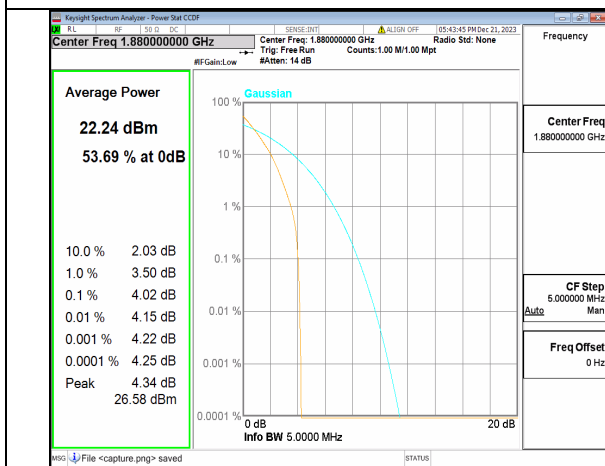
n2 5M DFT-s-OFDM 256QAM Outer_Full Low



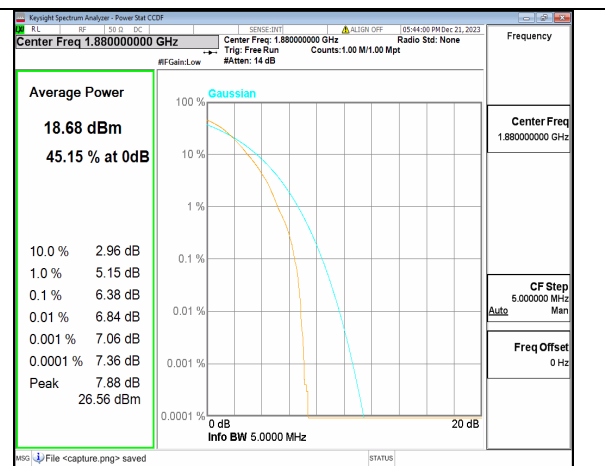
n2 5M CP-OFDM QPSK Outer_Full Low



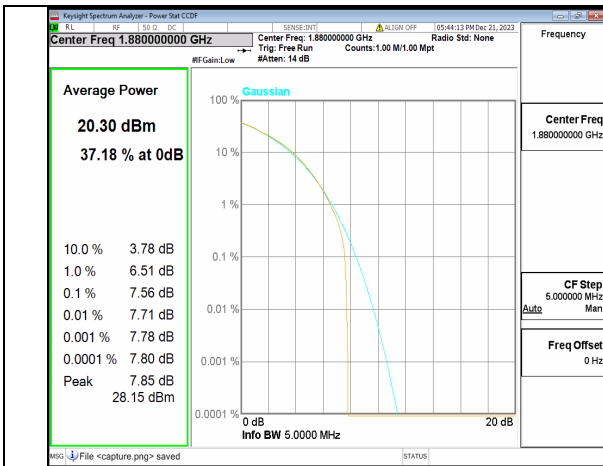
n2 5M CP-OFDM 256QAM Outer_Full Low



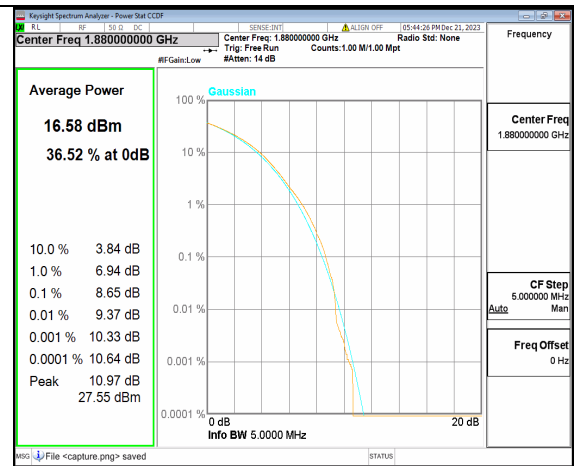
n2 5M DFT-s-OFDM BPSK Outer_Full Mid



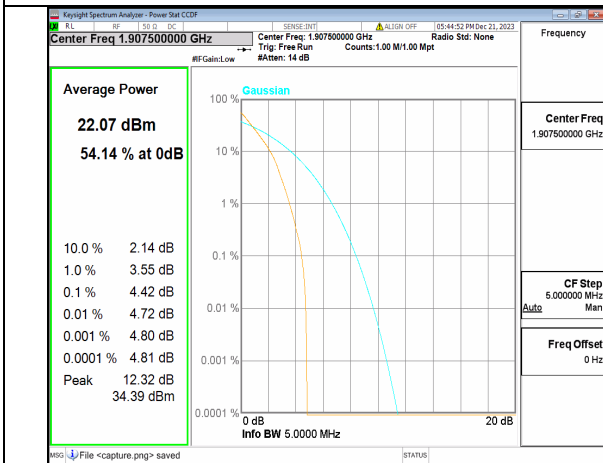
n2 5M DFT-s-OFDM 256QAM Outer_Full Mid



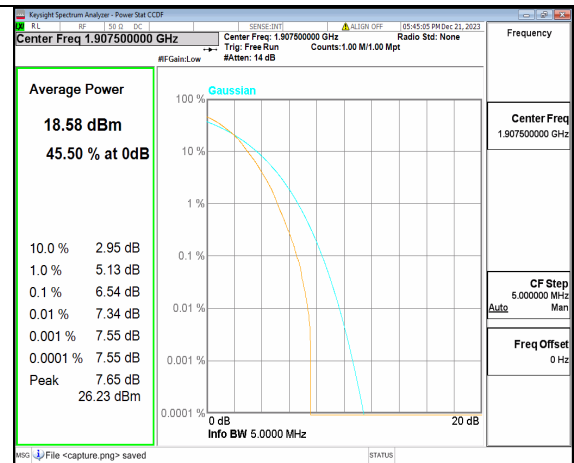
n2 5M CP-OFDM QPSK Outer_Full Mid



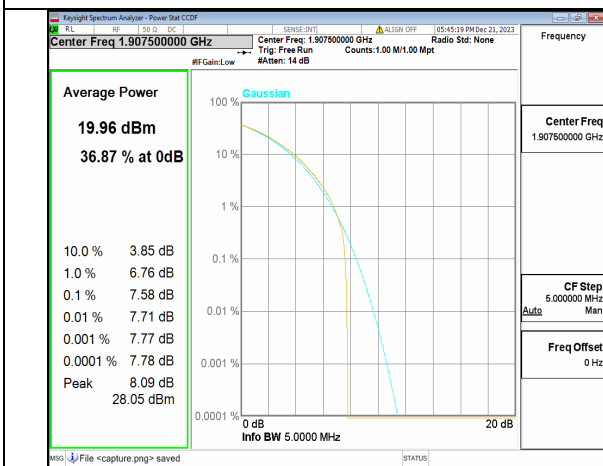
n2 5M CP-OFDM 256QAM Outer_Full Mid



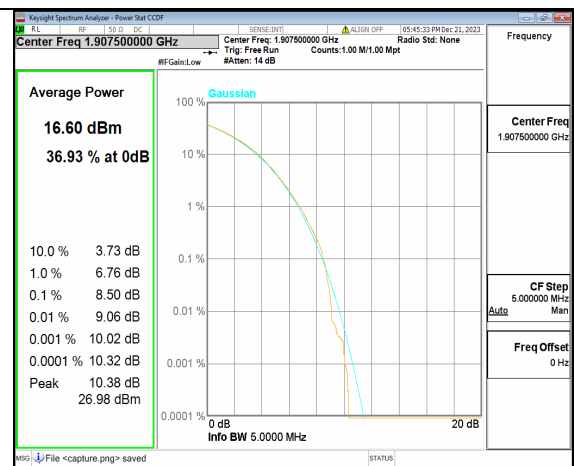
n2 5M DFT-s-OFDM BPSK Outer_Full High



n2 5M DFT-s-OFDM 256QAM Outer_Full High



n2 5M CP-OFDM QPSK Outer_Full High



n2 5M CP-OFDM 256QAM Outer_Full High