

99% & 26dB Bandwidth

Test Result

5G NR n48 SCS=30kHz 10MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	8.632	9.96	/	Pass
DFT-s-OFDM QPSK		Outer_Full	8.641	10.06	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	8.601	9.873	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	8.644	9.778	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	8.689	10.13	/	Pass
CP-OFDM QPSK		Outer_Full	8.623	10.06	/	Pass
CP-OFDM 16QAM		Outer_Full	8.629	10.02	/	Pass
CP-OFDM 64QAM		Outer_Full	8.617	9.745	/	Pass
CP-OFDM 256QAM		Outer_Full	8.664	10.03	/	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	8.647	9.998	/	Pass
DFT-s-OFDM QPSK		Outer_Full	8.604	9.835	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	8.586	9.889	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	8.644	9.764	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	8.687	10.11	/	Pass
CP-OFDM QPSK		Outer_Full	8.634	10.06	/	Pass
CP-OFDM 16QAM		Outer_Full	8.615	9.939	/	Pass
CP-OFDM 64QAM		Outer_Full	8.588	9.825	/	Pass
CP-OFDM 256QAM		Outer_Full	8.671	10.10	/	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	8.635	10.09	/	Pass
DFT-s-OFDM QPSK		Outer_Full	8.655	10.19	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	8.598	9.837	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	8.637	9.667	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	8.680	10.19	/	Pass
CP-OFDM QPSK		Outer_Full	8.675	10.36	/	Pass
CP-OFDM 16QAM		Outer_Full	8.614	9.949	/	Pass
CP-OFDM 64QAM		Outer_Full	8.605	9.836	/	Pass
CP-OFDM 256QAM		Outer_Full	8.670	10.00	/	Pass

5G NR n48 SCS=30kHz 15MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	13.010	14.56	/	Pass
DFT-s-OFDM QPSK		Outer_Full	12.964	14.63	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	12.978	14.51	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	12.984	14.58	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	12.937	14.51	/	Pass
CP-OFDM QPSK		Outer_Full	13.666	15.43	/	Pass
CP-OFDM 16QAM		Outer_Full	13.639	15.11	/	Pass
CP-OFDM 64QAM		Outer_Full	13.663	15.38	/	Pass
CP-OFDM 256QAM		Outer_Full	13.669	15.47	/	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	13.000	14.64	/	Pass
DFT-s-OFDM QPSK		Outer_Full	12.984	14.49	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	12.968	14.46	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	12.985	14.52	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	12.930	14.47	/	Pass
CP-OFDM QPSK		Outer_Full	13.697	15.40	/	Pass
CP-OFDM 16QAM		Outer_Full	13.657	15.24	/	Pass
CP-OFDM 64QAM		Outer_Full	13.653	15.15	/	Pass
CP-OFDM 256QAM		Outer_Full	13.685	15.38	/	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	12.979	14.96	/	Pass
DFT-s-OFDM QPSK		Outer_Full	12.957	14.40	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	12.954	14.50	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	12.948	14.57	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	12.925	14.47	/	Pass
CP-OFDM QPSK		Outer_Full	13.678	15.49	/	Pass
CP-OFDM 16QAM		Outer_Full	13.678	15.28	/	Pass
CP-OFDM 64QAM		Outer_Full	13.649	15.28	/	Pass
CP-OFDM 256QAM		Outer_Full	13.652	15.29	/	Pass

5G NR n48 SCS=30kHz 20MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	17.902	19.54	/	Pass
DFT-s-OFDM QPSK		Outer_Full	17.971	19.57	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	17.901	19.57	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	17.926	19.28	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	17.957	19.44	/	Pass
CP-OFDM QPSK		Outer_Full	18.248	20.21	/	Pass
CP-OFDM 16QAM		Outer_Full	18.297	19.98	/	Pass
CP-OFDM 64QAM		Outer_Full	18.261	19.96	/	Pass
CP-OFDM 256QAM		Outer_Full	18.299	19.71	/	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	17.899	19.65	/	Pass
DFT-s-OFDM QPSK		Outer_Full	17.973	19.61	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	17.928	19.40	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	17.941	19.33	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	17.948	19.54	/	Pass
CP-OFDM QPSK		Outer_Full	18.261	20.01	/	Pass
CP-OFDM 16QAM		Outer_Full	18.268	19.97	/	Pass
CP-OFDM 64QAM		Outer_Full	18.261	19.89	/	Pass
CP-OFDM 256QAM		Outer_Full	18.300	19.91	/	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	17.918	19.64	/	Pass
DFT-s-OFDM QPSK		Outer_Full	17.969	19.56	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	17.954	19.65	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	17.935	19.45	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	17.956	19.39	/	Pass
CP-OFDM QPSK		Outer_Full	18.281	20.08	/	Pass
CP-OFDM 16QAM		Outer_Full	18.25	19.93	/	Pass
CP-OFDM 64QAM		Outer_Full	18.278	19.83	/	Pass
CP-OFDM 256QAM		Outer_Full	18.272	19.82	/	Pass

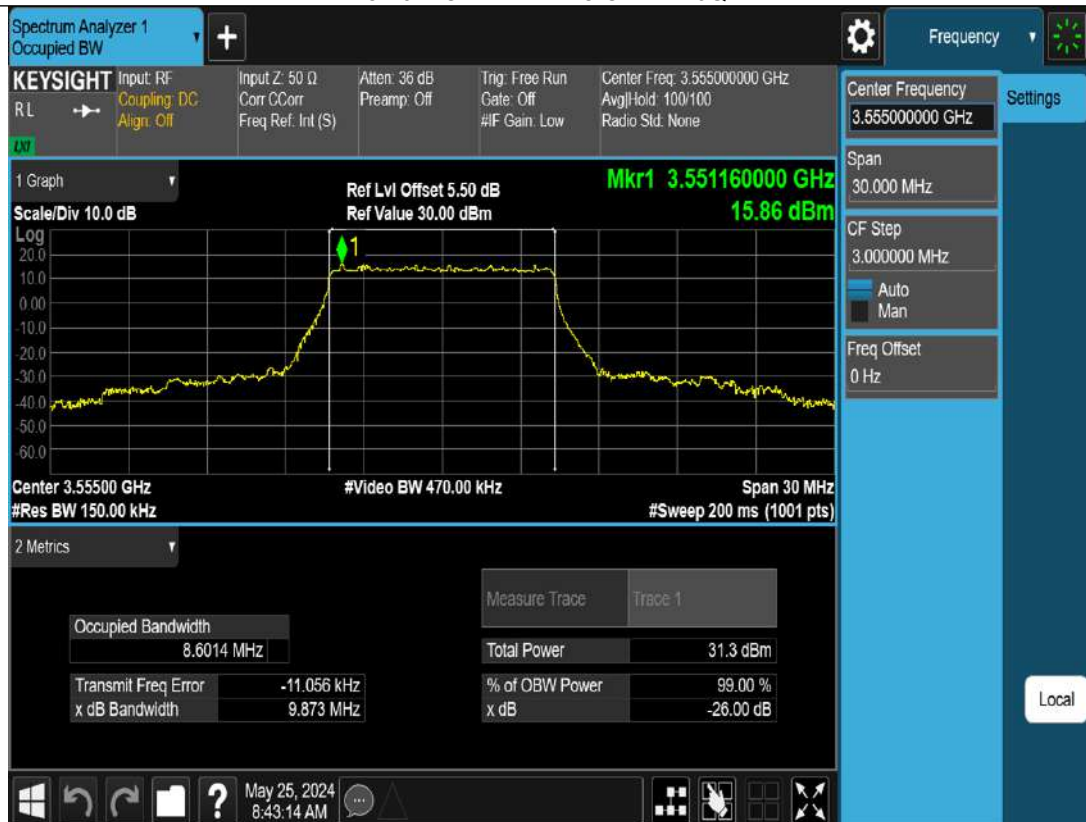
Test graph



N48-10M-OBW-L-DFT-s-OFDM-QPSK



N48-10M-OBW-L-DFT-s-OFDM-16QAM



N48-10M-OBW-L-DFT-s-OFDM-64QAM



N48-10M-OBW-L-DFT-s-OFDM-256QAM



N48-10M-OBW-L-CP-OFDM-QPSK



N48-10M-OBW-L-CP-OFDM-16QAM



N48-10M-OBW-L-CP-OFDM-64QAM



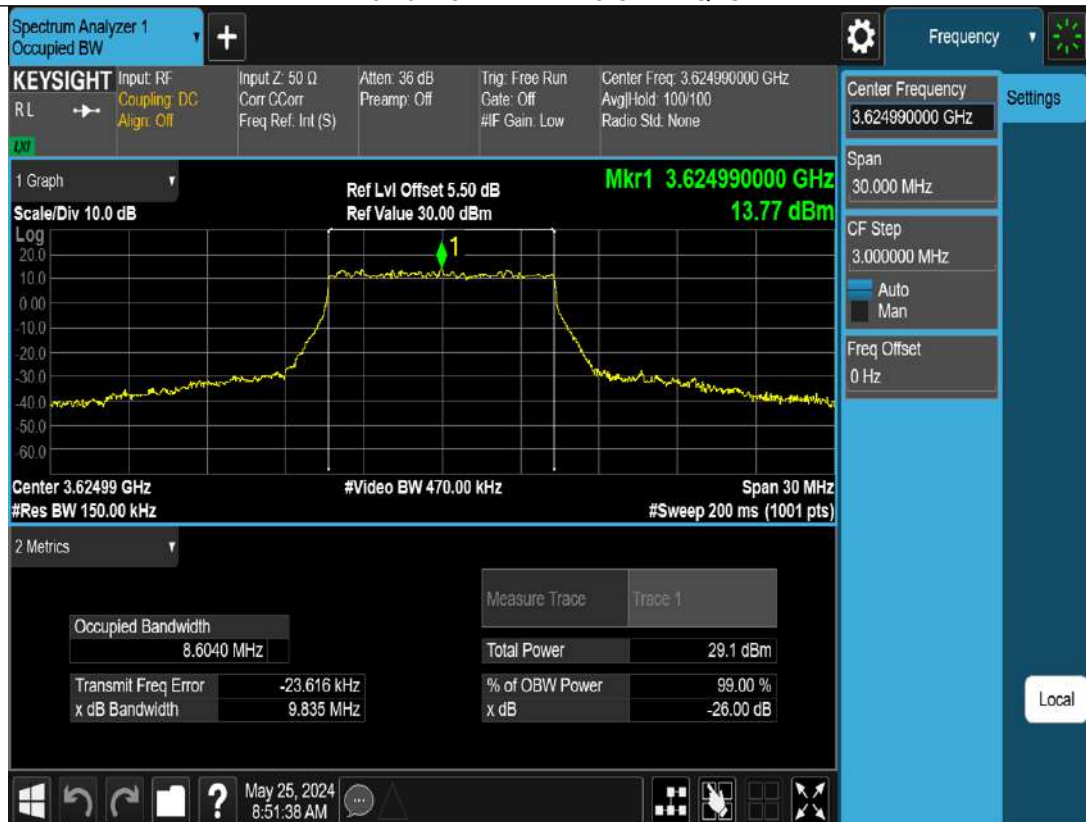
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N48-10M-OBW-M-DFT-s-OFDM-Pi2 BPSK



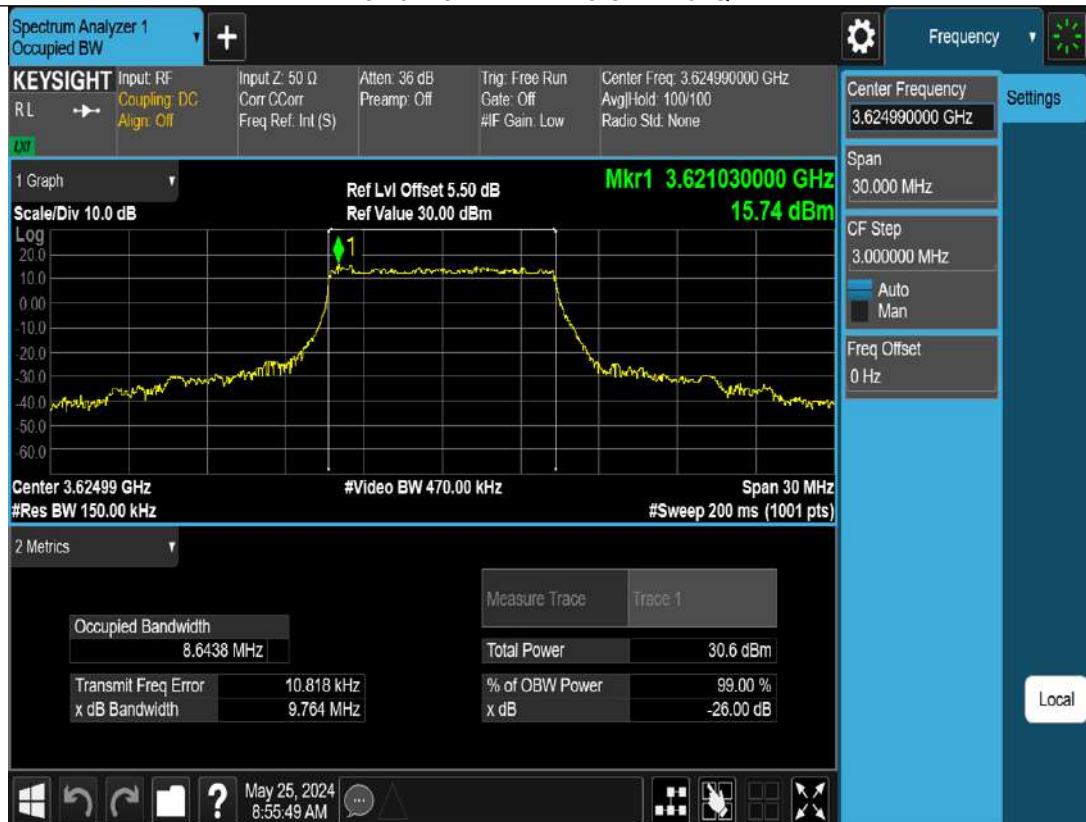
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N48-10M-OBW-M-DFT-s-OFDM-16QAM



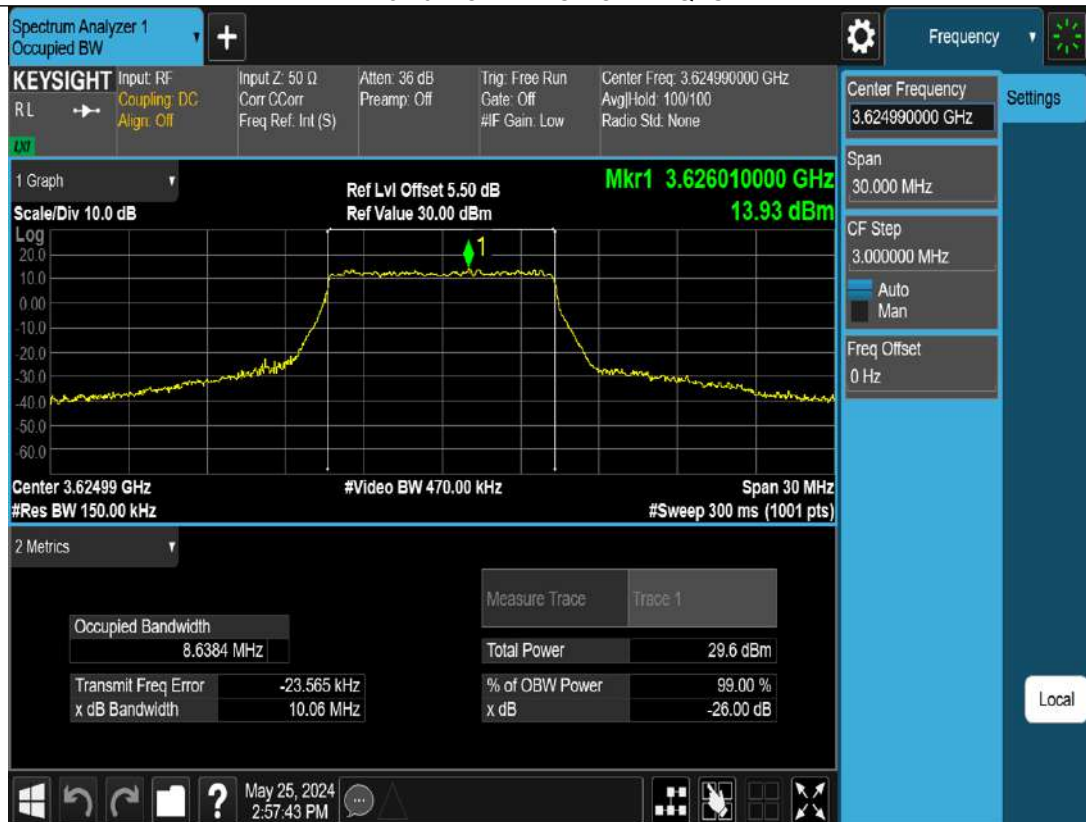
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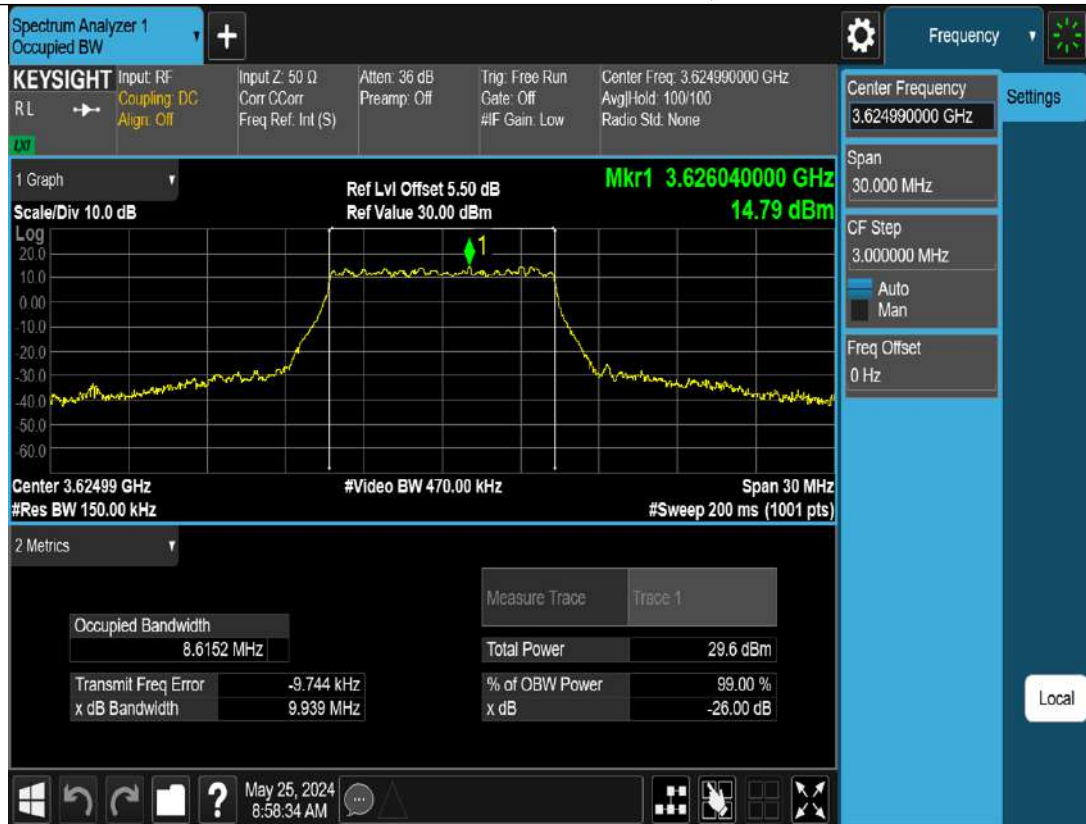
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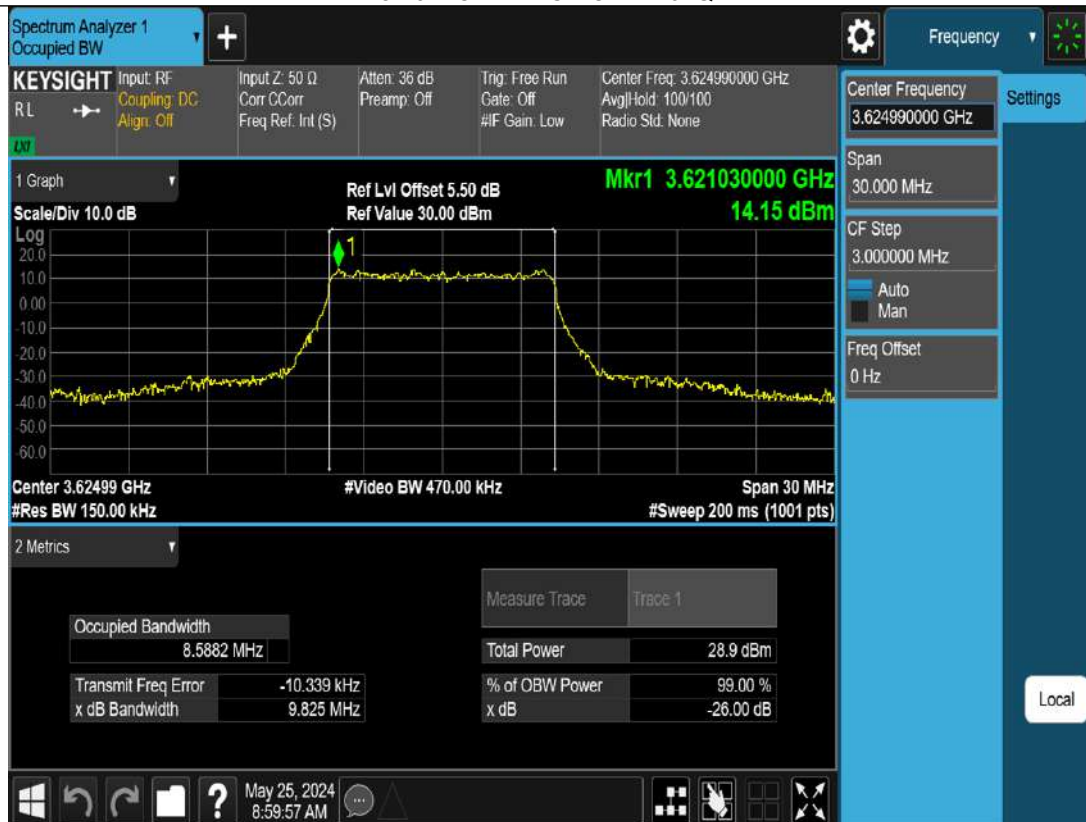
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N48-10M-OBW-M-CP-OFDM-16QAM



N48-10M-OBW-M-CP-OFDM-64QAM



N48-10M-OBW-M-CP-OFDM-256QAM



N48-10M-OBW-H-DFT-s-OFDM-Pi2 BPSK



N48-10M-OBW-H-DFT-s-OFDM-QPSK



N48-10M-OBW-H-DFT-s-OFDM-16QAM



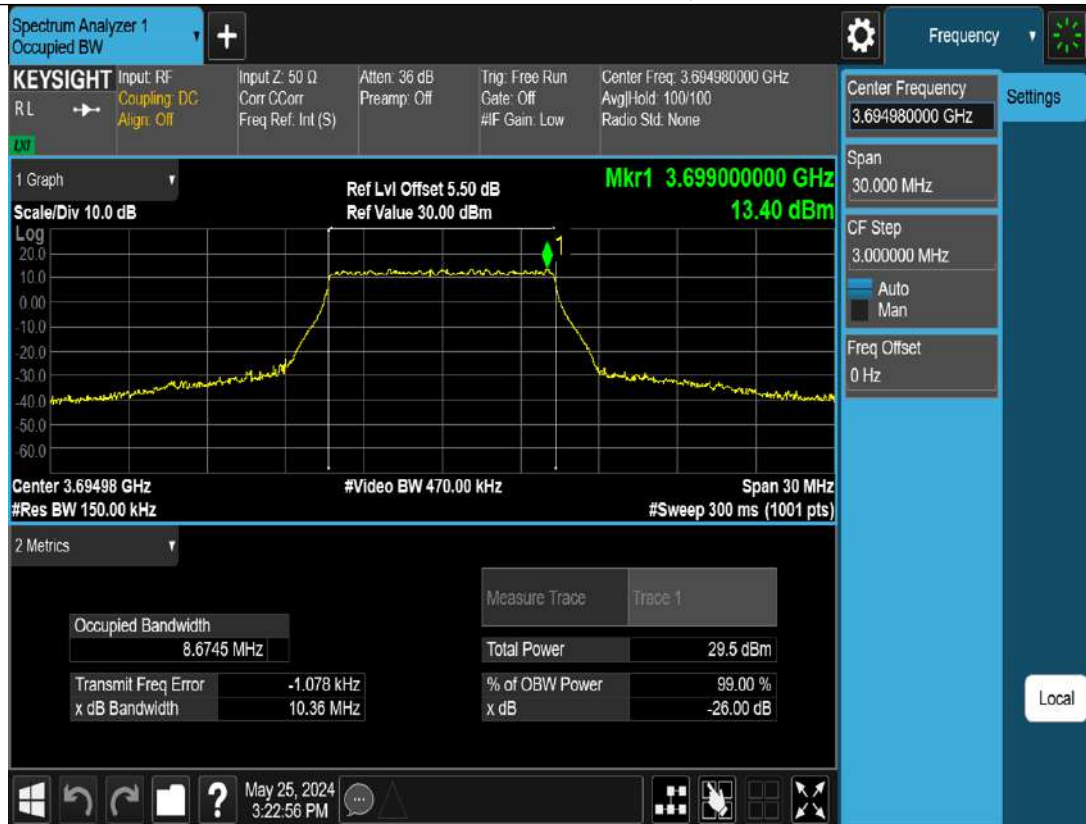
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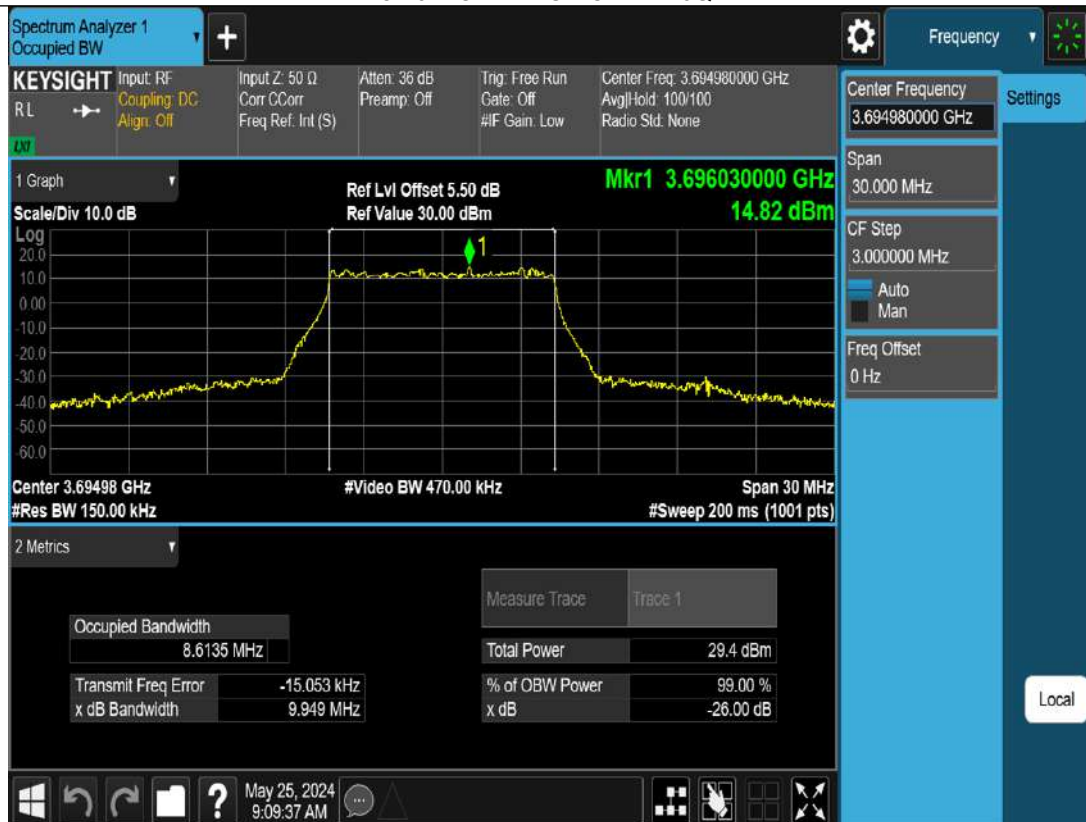
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N48-10M-OBW-H-CP-OFDM-QPSK



N48-10M-OBW-H-CP-OFDM-16QAM



N48-10M-OBW-H-CP-OFDM-64QAM



N48-10M-OBW-H-CP-OFDM-256QAM



N48-15M-OBW-L-DFT-s-OFDM-Pi2 BPSK



N48-15M-OBW-L-DFT-s-OFDM-QPSK



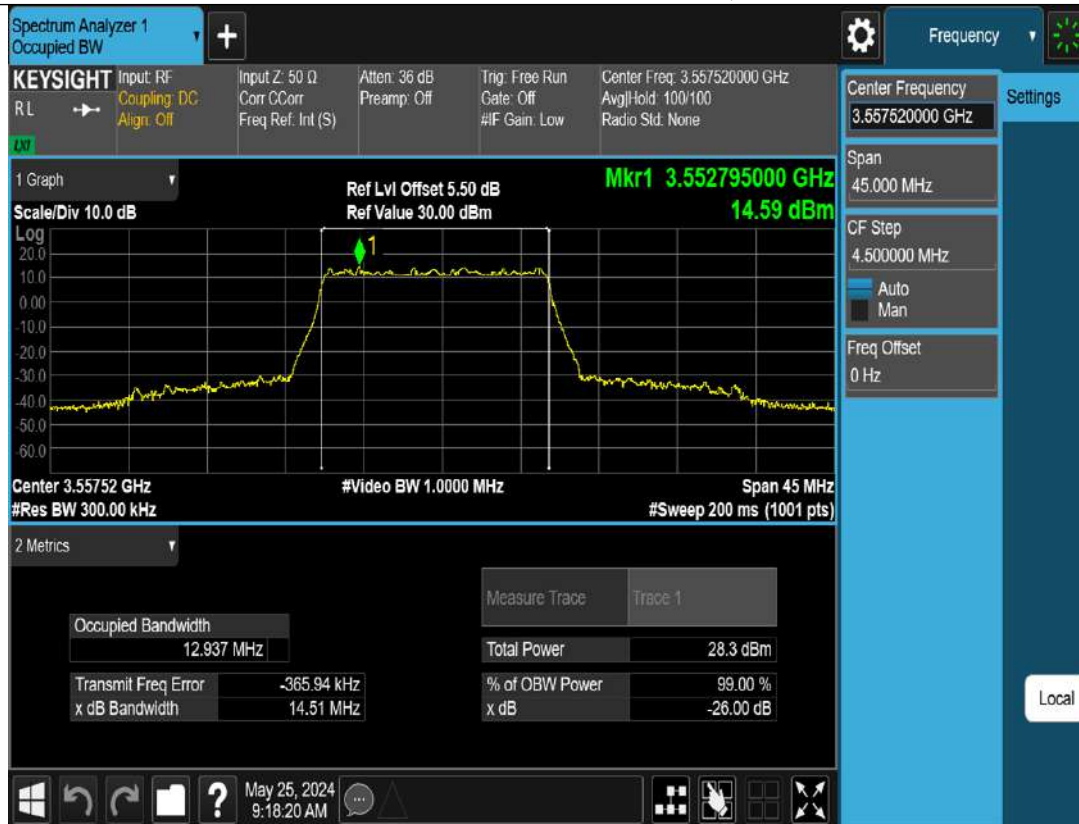
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N48-15M-OBW-L-DFT-s-OFDM-64QAM



N48-15M-OBW-L-DFT-s-OFDM-256QAM



N48-15M-OBW-L-CP-OFDM-QPSK



N48-15M-OBW-L-CP-OFDM-16QAM



N48-15M-OBW-L-CP-OFDM-64QAM



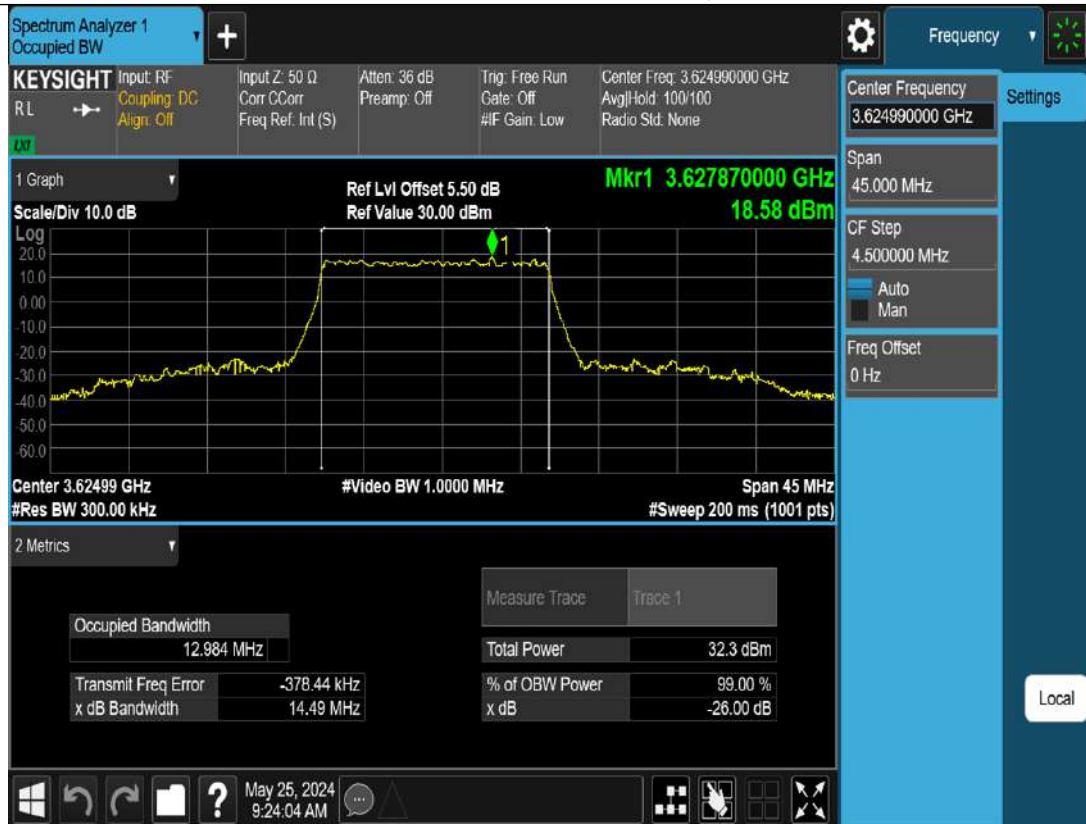
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N48-15M-OBW-M-DFT-s-OFDM-Pi2 BPSK



N48-15M-OBW-M-DFT-s-OFDM-QPSK



N48-15M-OBW-M-DFT-s-OFDM-16QAM



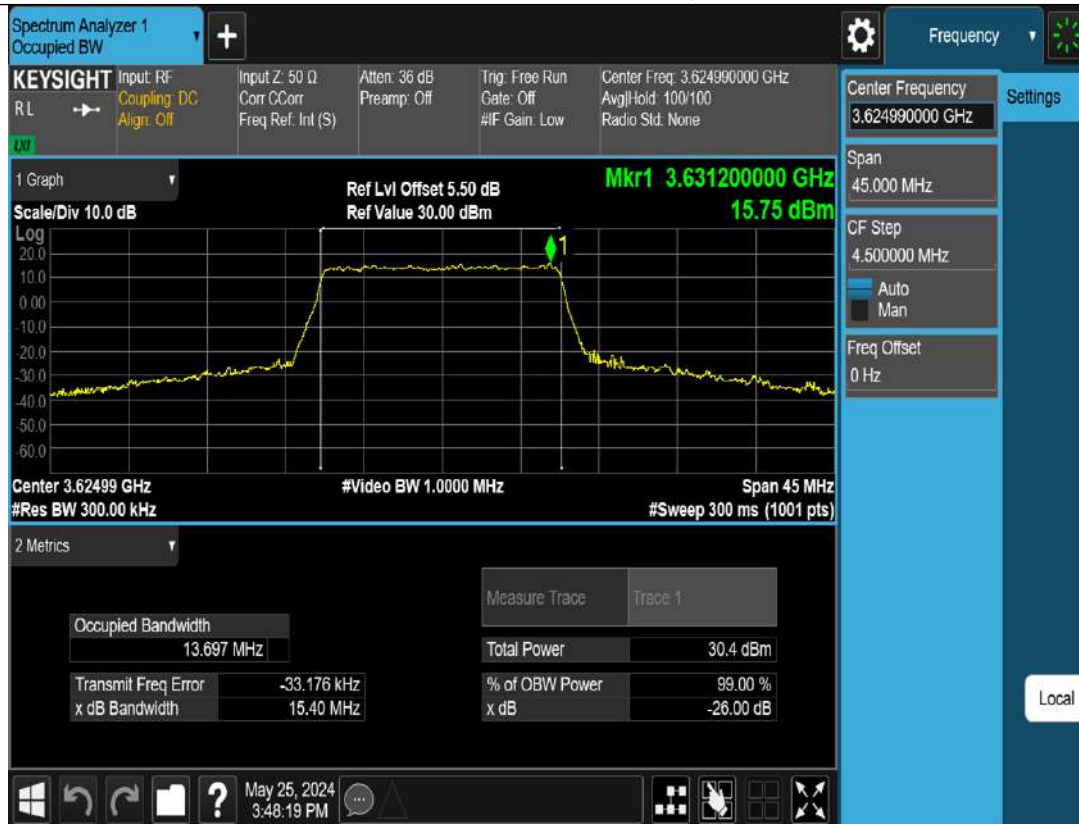
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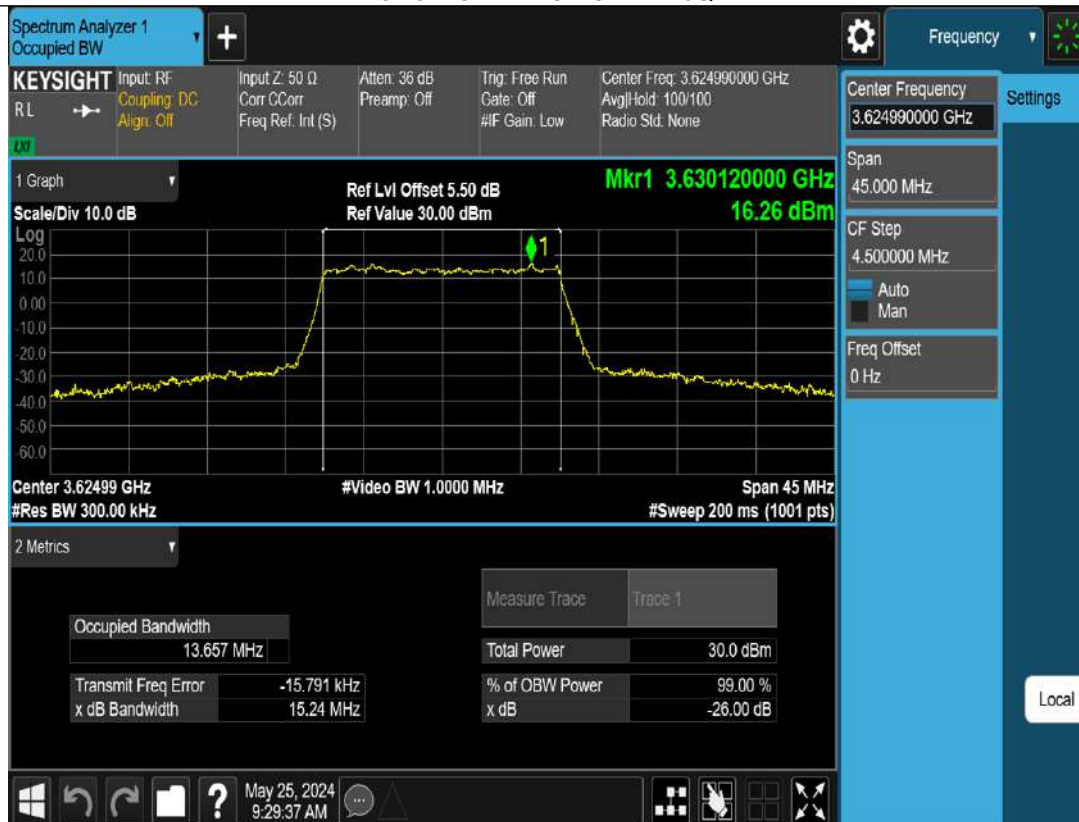
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N48-15M-OBW-M-CP-OFDM-QPSK



N48-15M-OBW-M-CP-OFDM-16QAM



N48-15M-OBW-M-CP-OFDM-64QAM



N48-15M-OBW-M-CP-OFDM-256QAM



N48-15M-OBW-H-DFT-s-OFDM-Pi2 BPSK



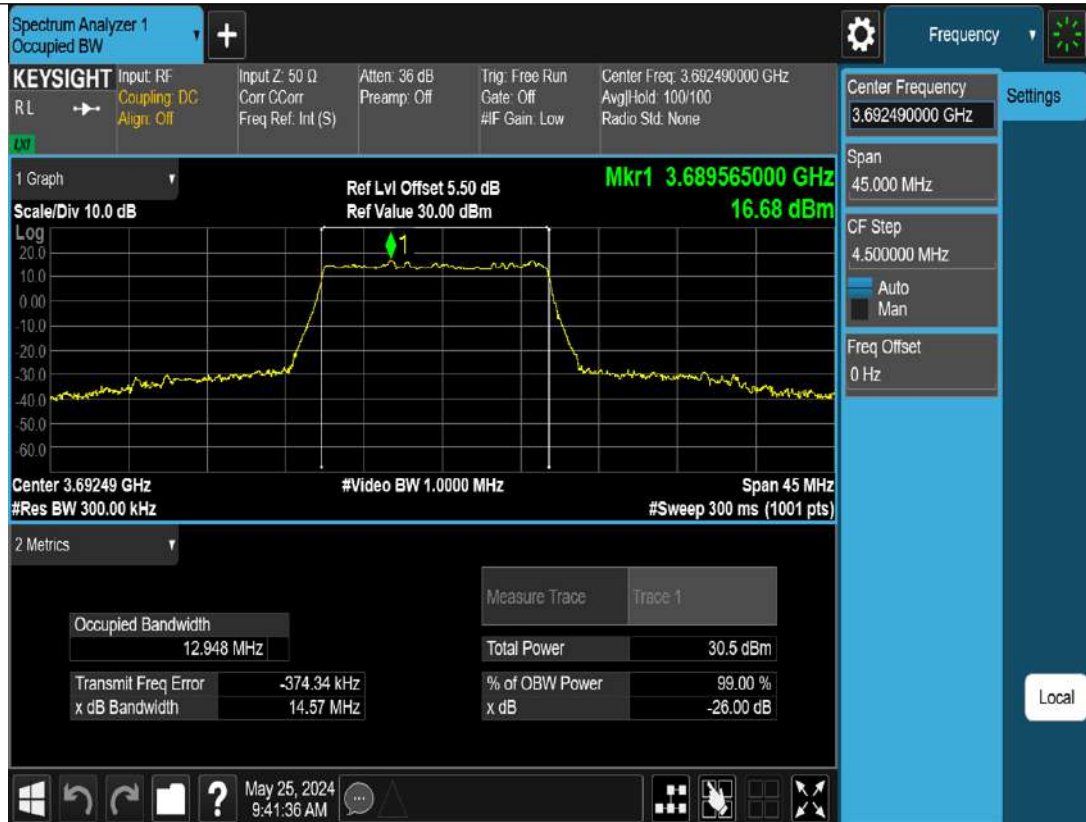
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N48-15M-OBW-H-DFT-s-OFDM-16QAM



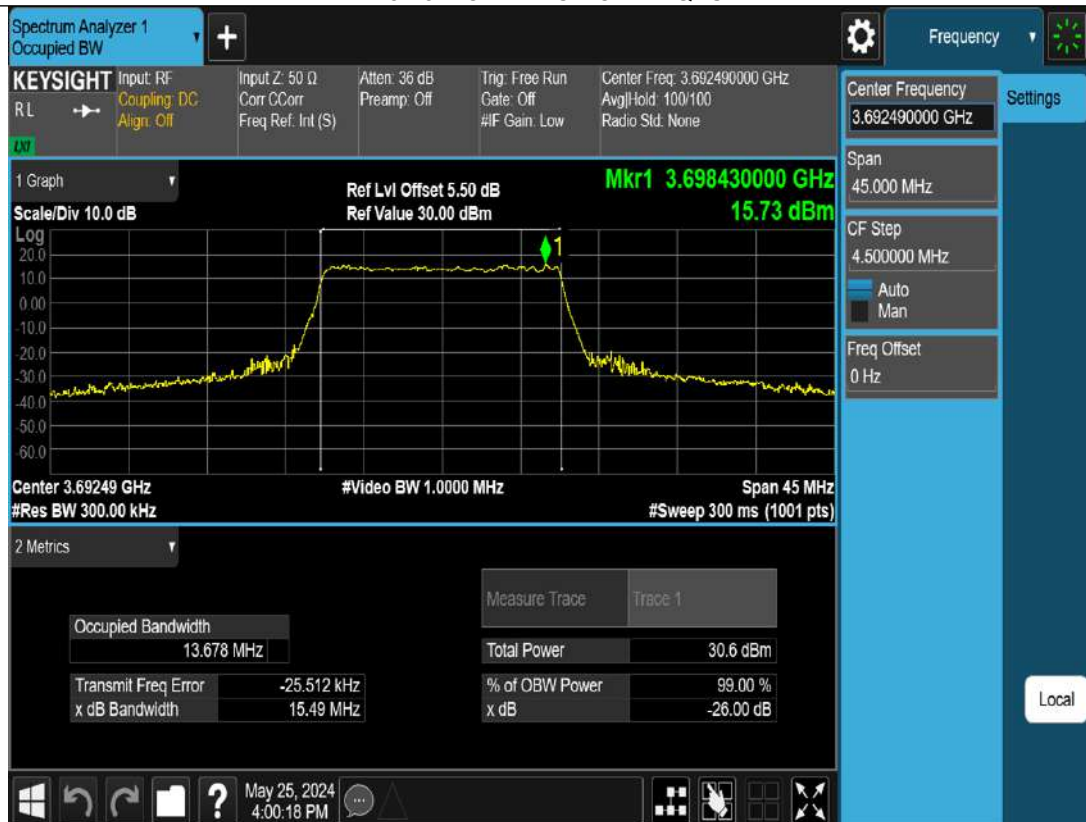
N48-15M-OBW-H-DFT-s-OFDM-64QAM



N48-15M-OBW-H-DFT-s-OFDM-256QAM



N48-15M-OBW-H-CP-OFDM-QPSK



N48-15M-OBW-H-CP-OFDM-16QAM



N48-15M-OBW-H-CP-OFDM-64QAM



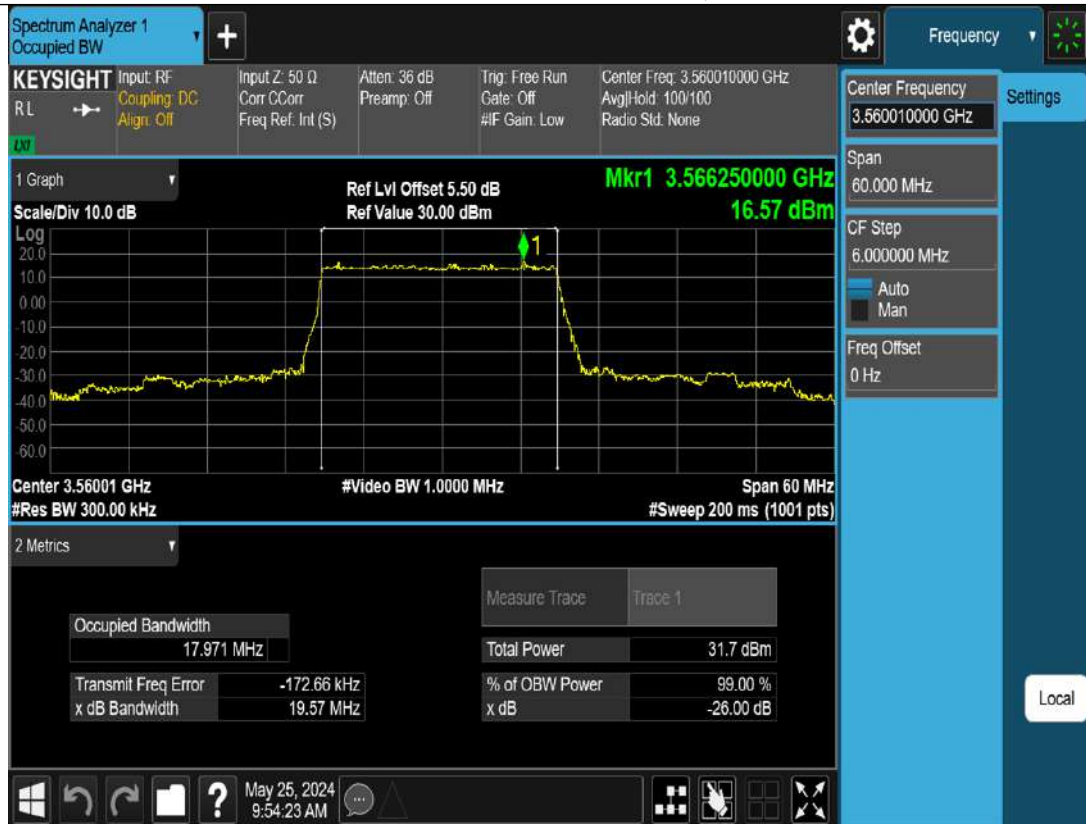
N48-15M-OBW-H-CP-OFDM-256QAM



N48-20M-OBW-L-DFT-s-OFDM-Pi2 BPSK



N48-20M-OBW-L-DFT-s-OFDM-QPSK



N48-20M-OBW-L-DFT-s-OFDM-16QAM



N48-20M-OBW-L-DFT-s-OFDM-64QAM



N48-20M-OBW-L-DFT-s-OFDM-256QAM



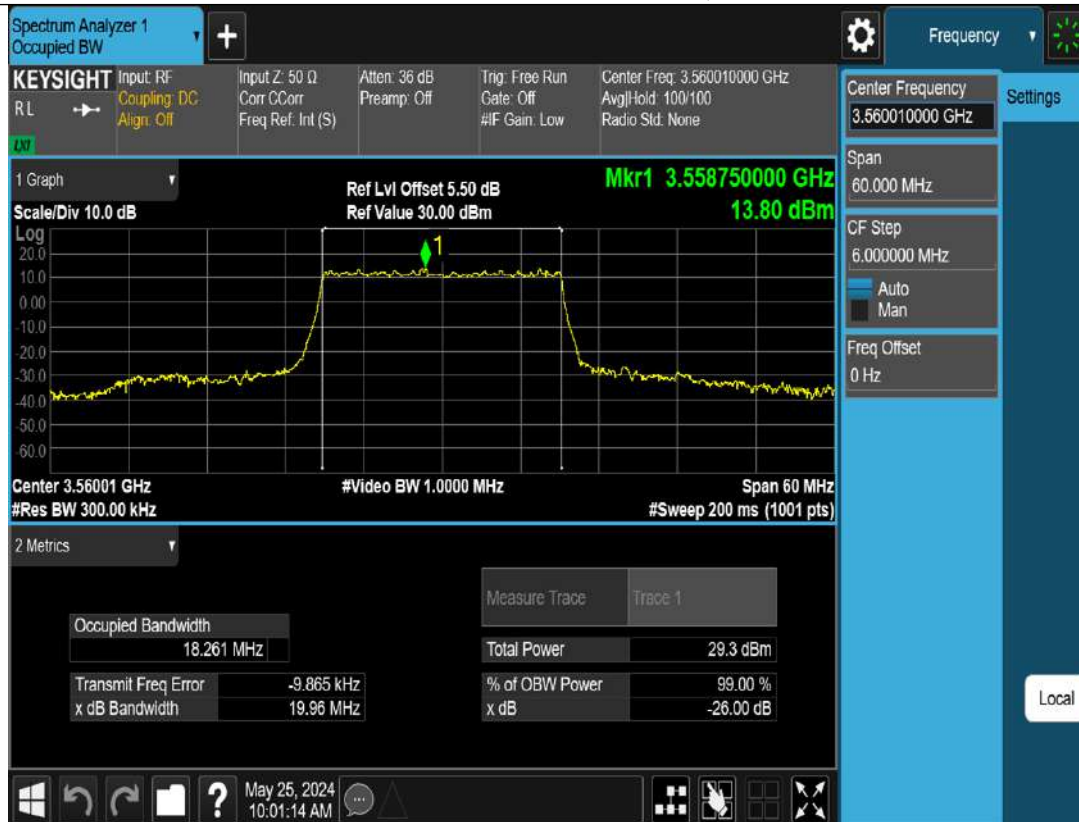
N48-20M-OBW-L-CP-OFDM-QPSK



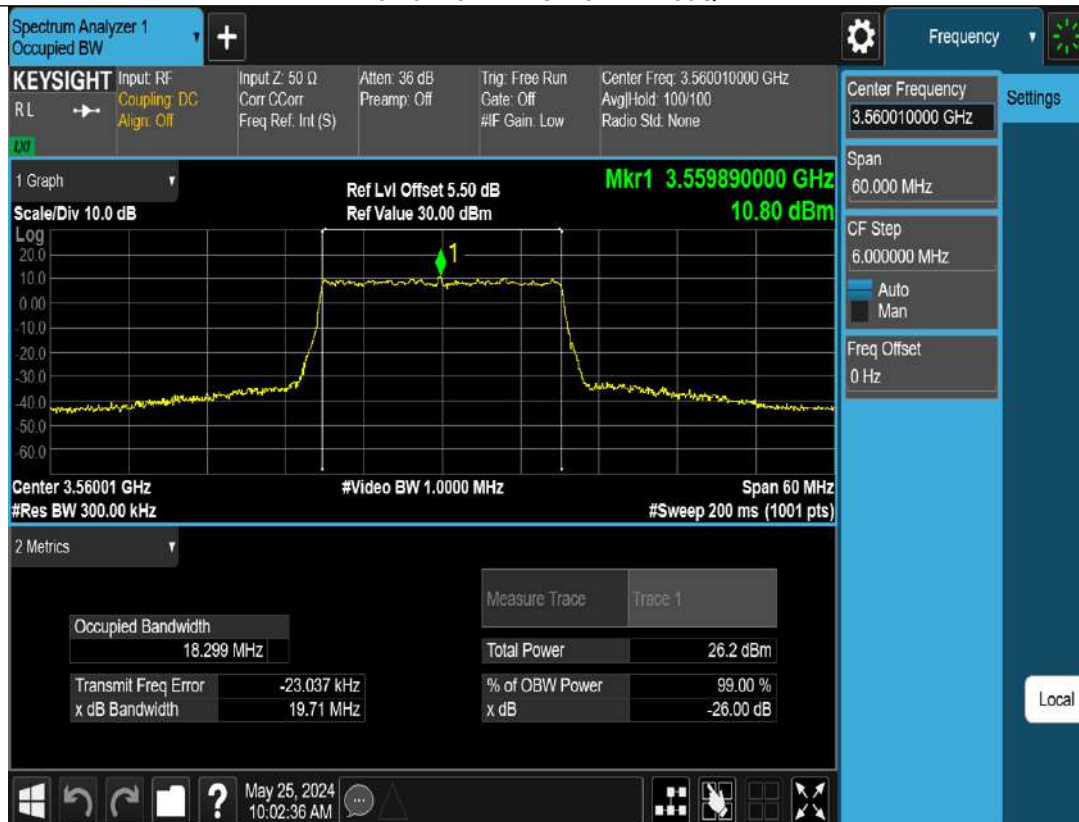
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N48-20M-OBW-L-CP-OFDM-64QAM



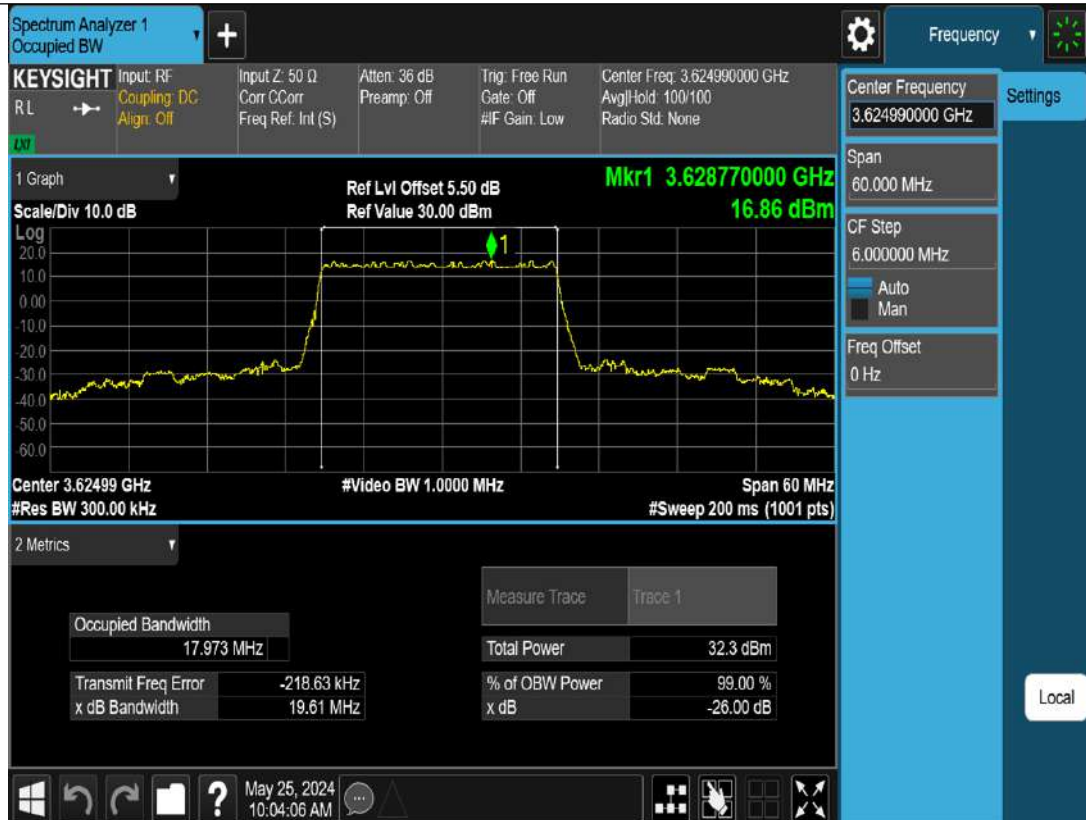
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N48-20M-OBW-M-DFT-s-OFDM-Pi2 BPSK



N48-20M-OBW-M-DFT-s-OFDM-QPSK



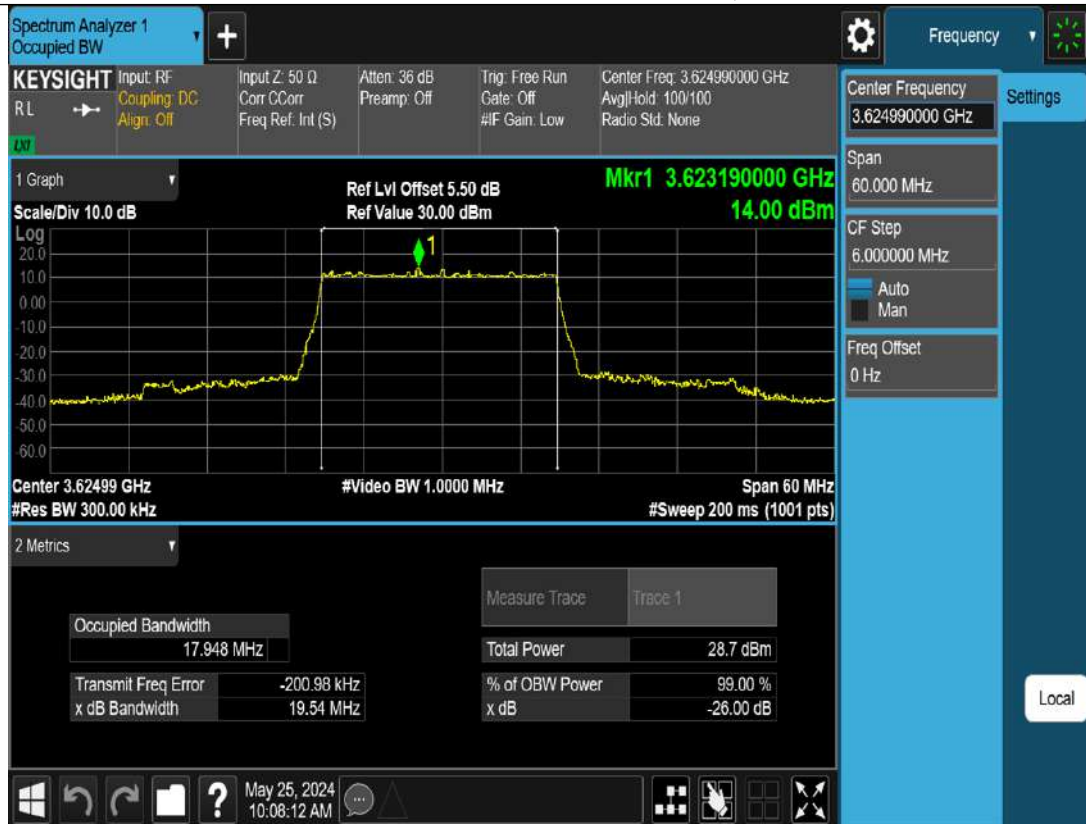
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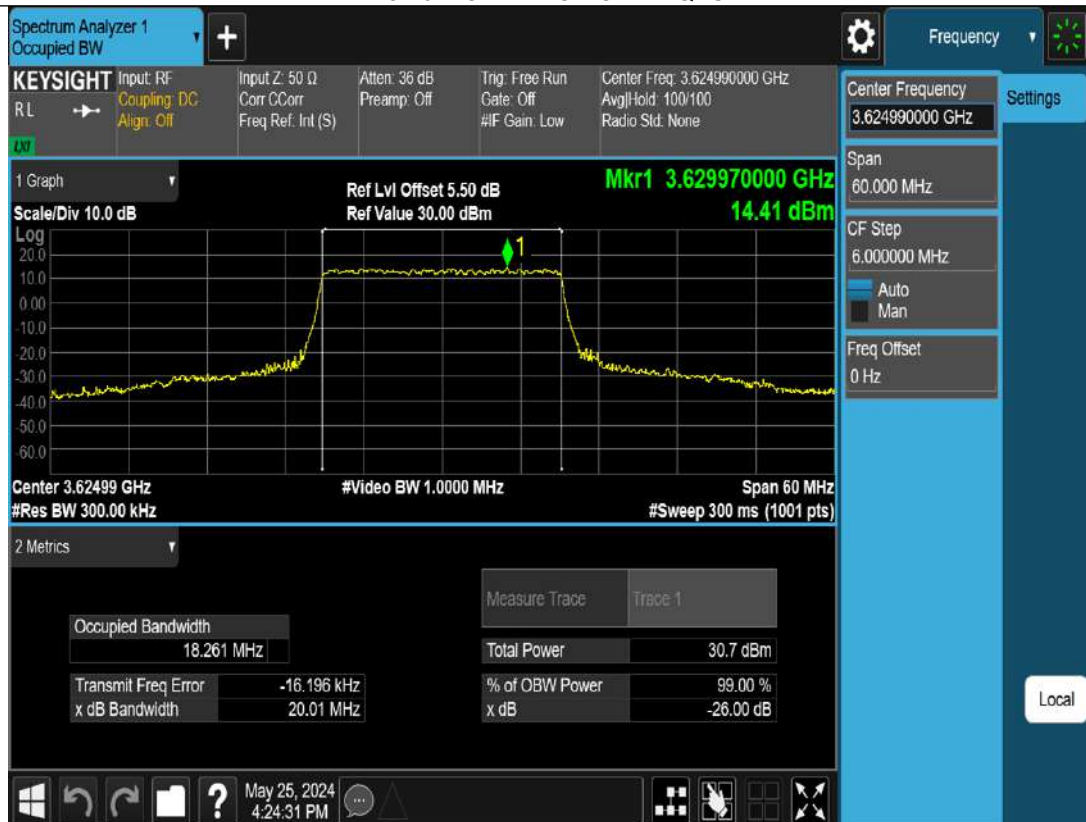
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N48-20M-OBW-M-DFT-s-OFDM-256QAM



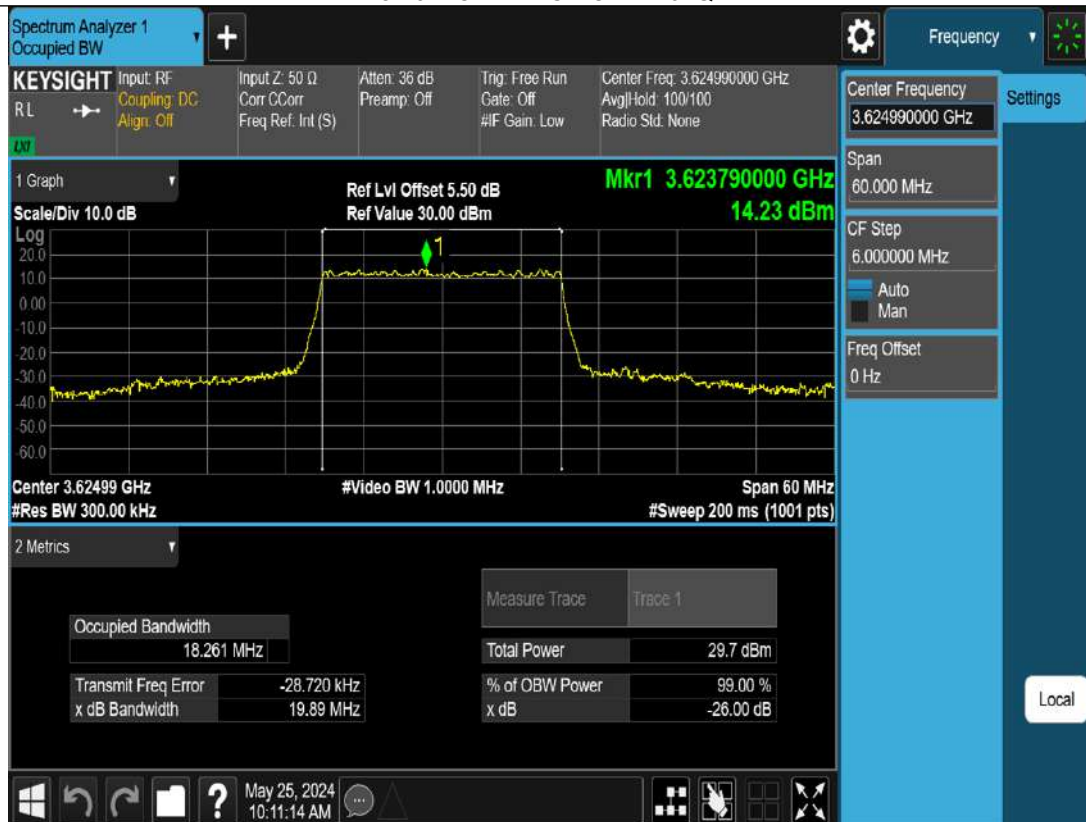
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N48-20M-OBW-M-CP-OFDM-64QAM



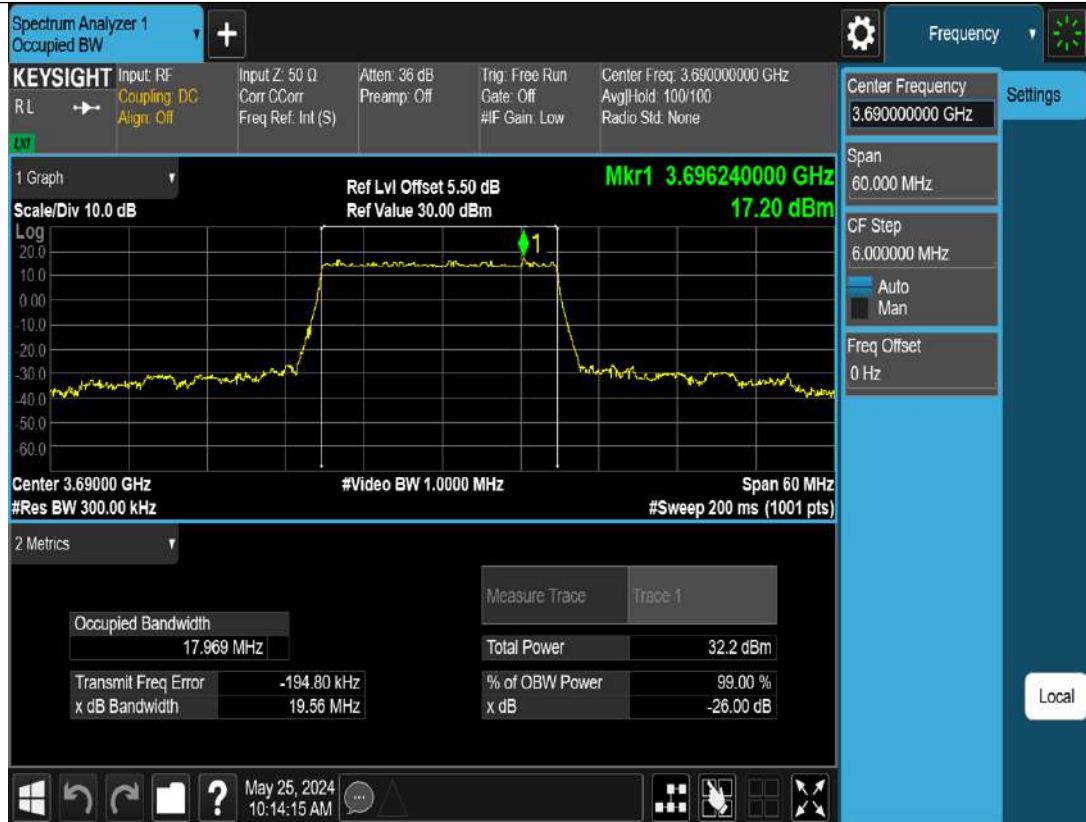
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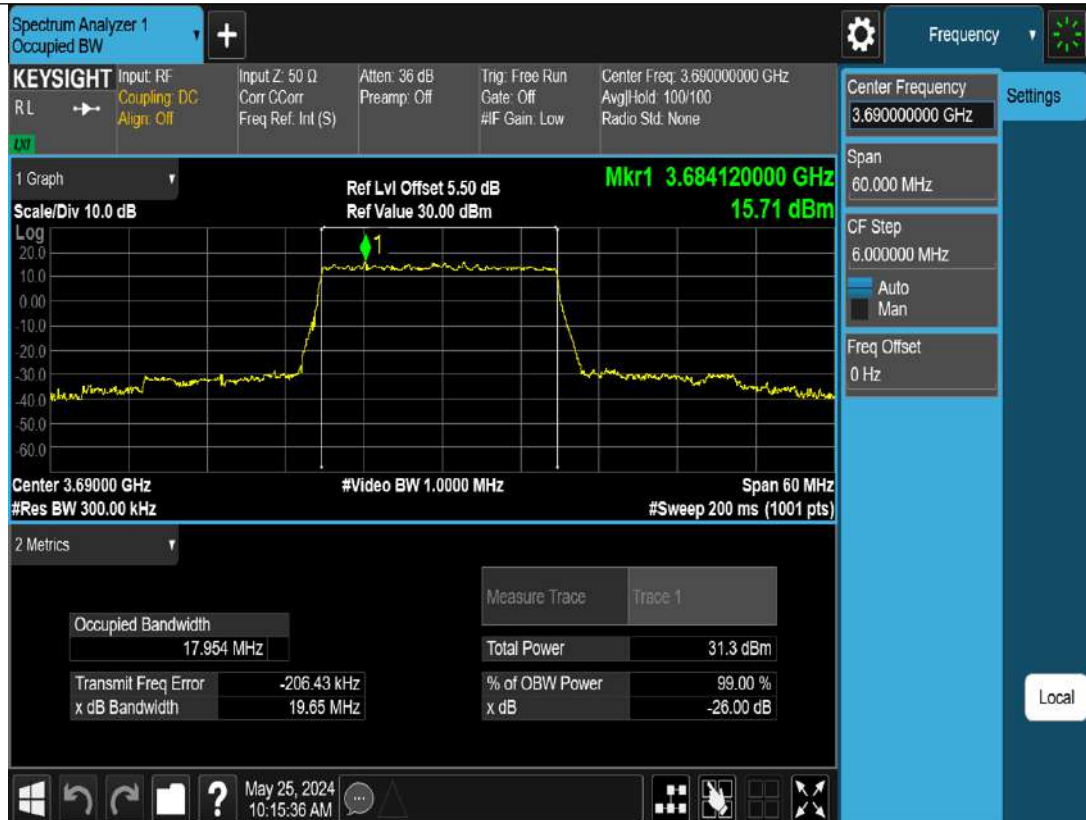
N48-20M-OBW-H-DFT-s-OFDM-Pi2 BPSK



N48-20M-OBW-H-DFT-s-OFDM-QPSK



N48-20M-OBW-H-DFT-s-OFDM-16QAM



N48-20M-OBW-H-DFT-s-OFDM-64QAM



N48-20M-OBW-H-DFT-s-OFDM-256QAM



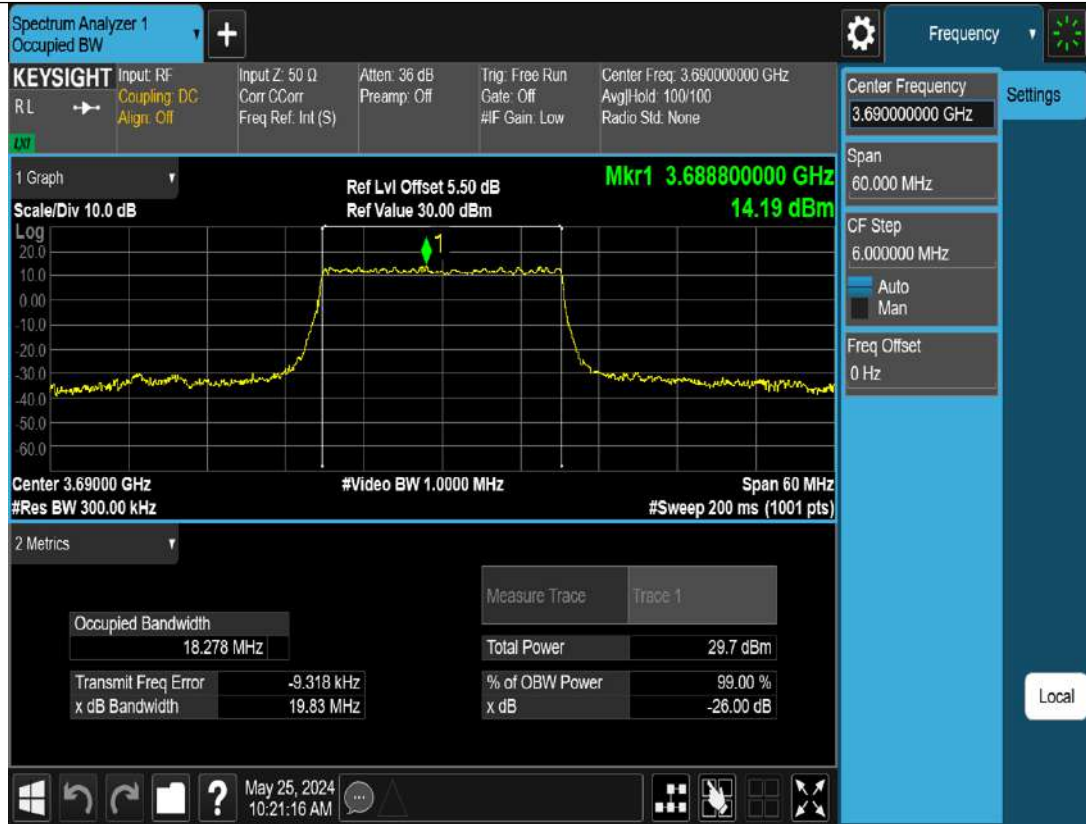
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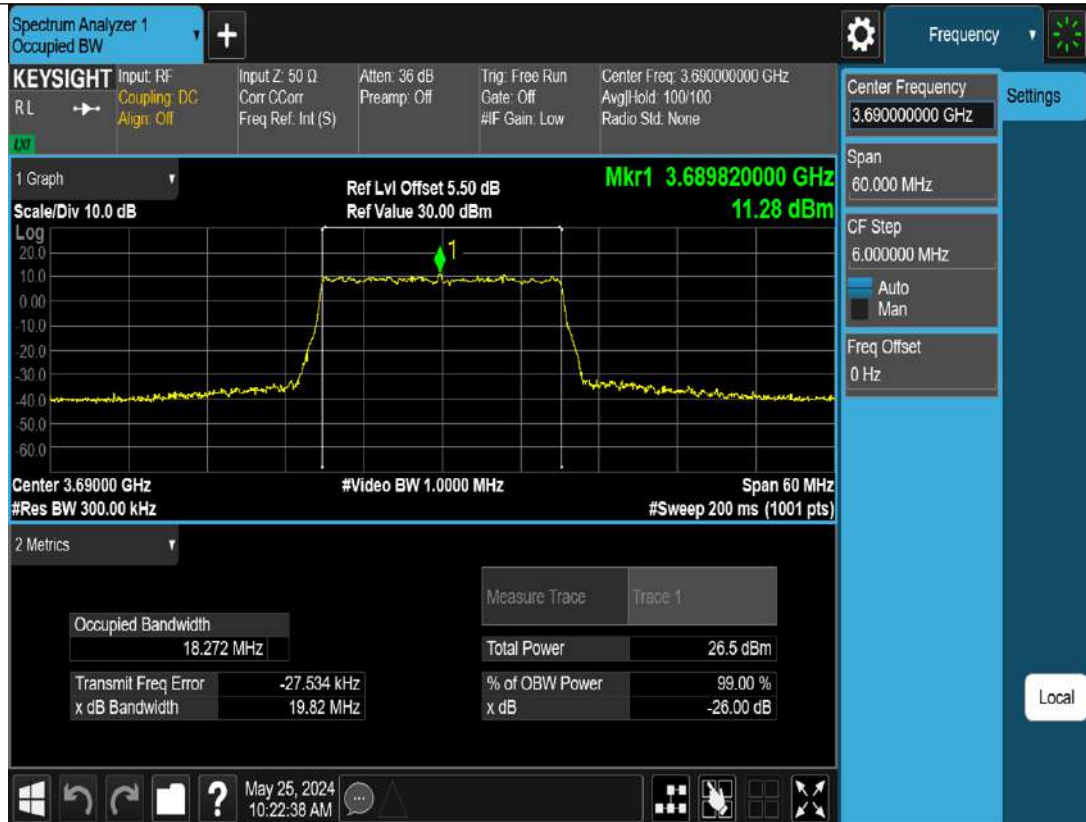
N48-20M-OBW-H-CP-OFDM-16QAM



N48-20M-OBW-H-CP-OFDM-64QAM



N48-20M-OBW-H-CP-OFDM-256QAM



Peak-Average Ratio

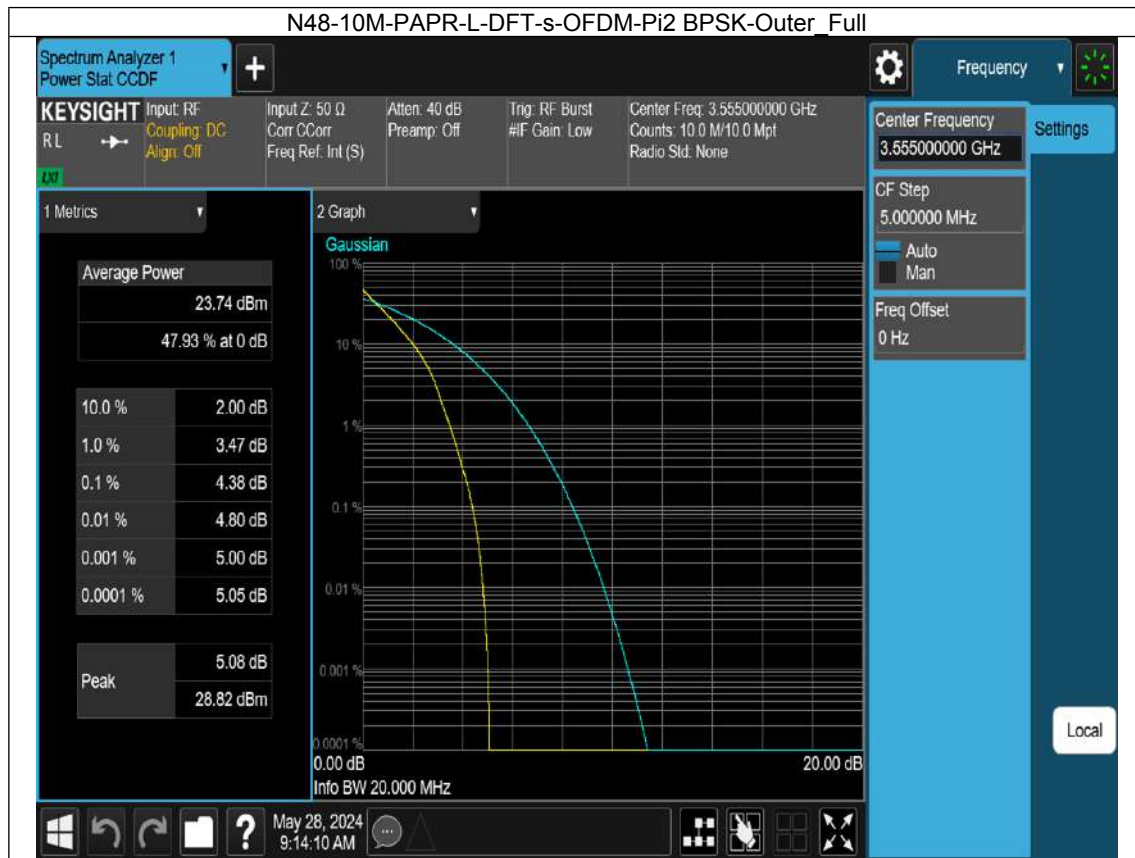
Test Result

5G NR n48 SCS=30kHz 10MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	4.38	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.53	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.34	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.62	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.51	<=13	Pass
CP-OFDM QPSK		Outer_Full	4.35	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.59	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.48	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.51	<=13	Pass
DFT-s-OFDM PI/2 BPSK		Outer_Full	4.13	<=13	Pass
DFT-s-OFDM QPSK	Middle CH	Outer_Full	5.67	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.39	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.67	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.53	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.27	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.17	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.77	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.62	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	4.29	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.55	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.33	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.64	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.58	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.53	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.50	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.53	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.59	<=13	Pass

5G NR n48 SCS=30kHz 15MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	4.44	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.52	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.31	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.54	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.65	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.58	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.70	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.45	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.50	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	4.38	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.66	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.46	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.65	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.52	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.28	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.45	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.80	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.60	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	4.38	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.40	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.33	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.62	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.55	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.65	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.65	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.46	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.52	<=13	Pass

5G NR n48 SCS=30kHz 20MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	7.32	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.55	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.35	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.55	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.56	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.61	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.66	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.51	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.64	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	5.59	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.50	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.35	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.52	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.53	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.20	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.21	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.74	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.74	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	5.36	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.61	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.45	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.56	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.57	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.50	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.51	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.47	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.68	<=13	Pass

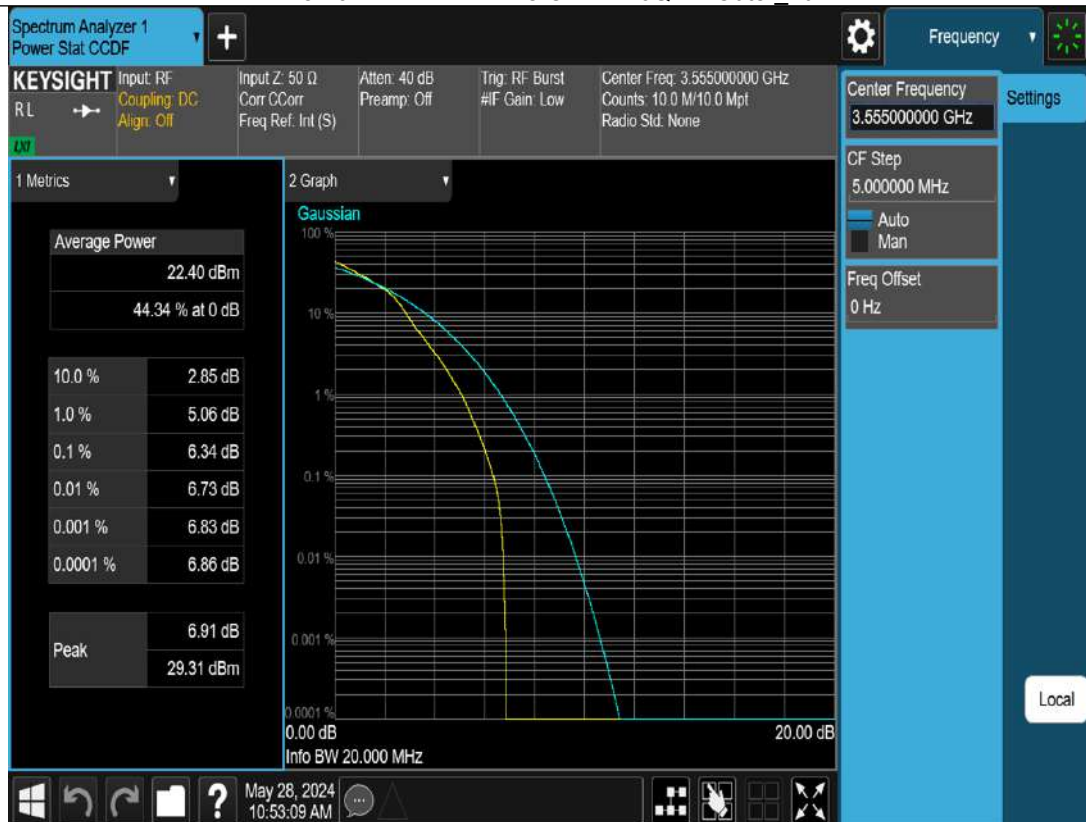
Test Graph



N48-10M-PAPR-L-DFT-s-OFDM-QPSK-Outer_Full



N48-10M-PAPR-L-DFT-s-OFDM-16QAM-Outer_Full



N48-10M-PAPR-L-DFT-s-OFDM-64QAM-Outer_Full



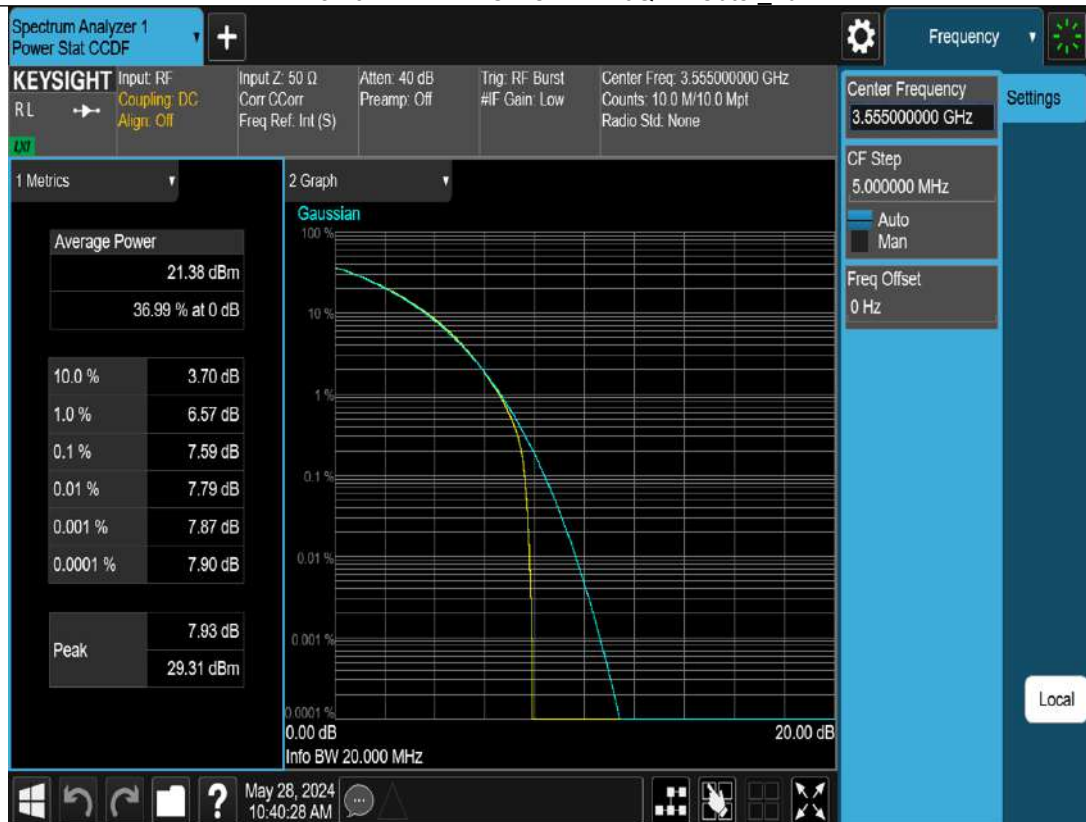
N48-10M-PAPR-L-DFT-s-OFDM-256QAM-Outer_Full



N48-10M-PAPR-L-CP-OFDM-QPSK-Outer_Full



N48-10M-PAPR-L-CP-OFDM-16QAM-Outer_Full



N48-10M-PAPR-L-CP-OFDM-64QAM-Outer_Full



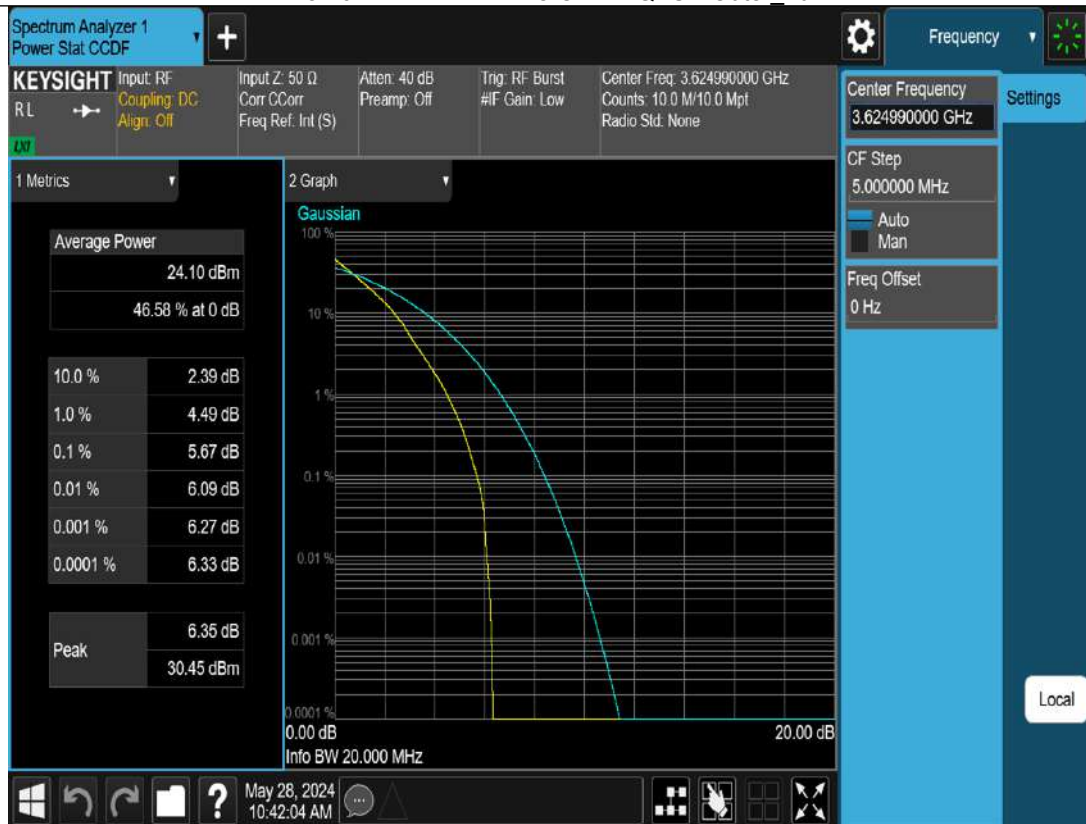
N48-10M-PAPR-L-CP-OFDM-256QAM-Outer_Full



N48-10M-PAPR-M-DFT-s-OFDM-Pi2 BPSK-Outer Full



N48-10M-PAPR-M-DFT-s-OFDM-QPSK-Outer Full



N48-10M-PAPR-M-DFT-s-OFDM-16QAM-Outer_Full



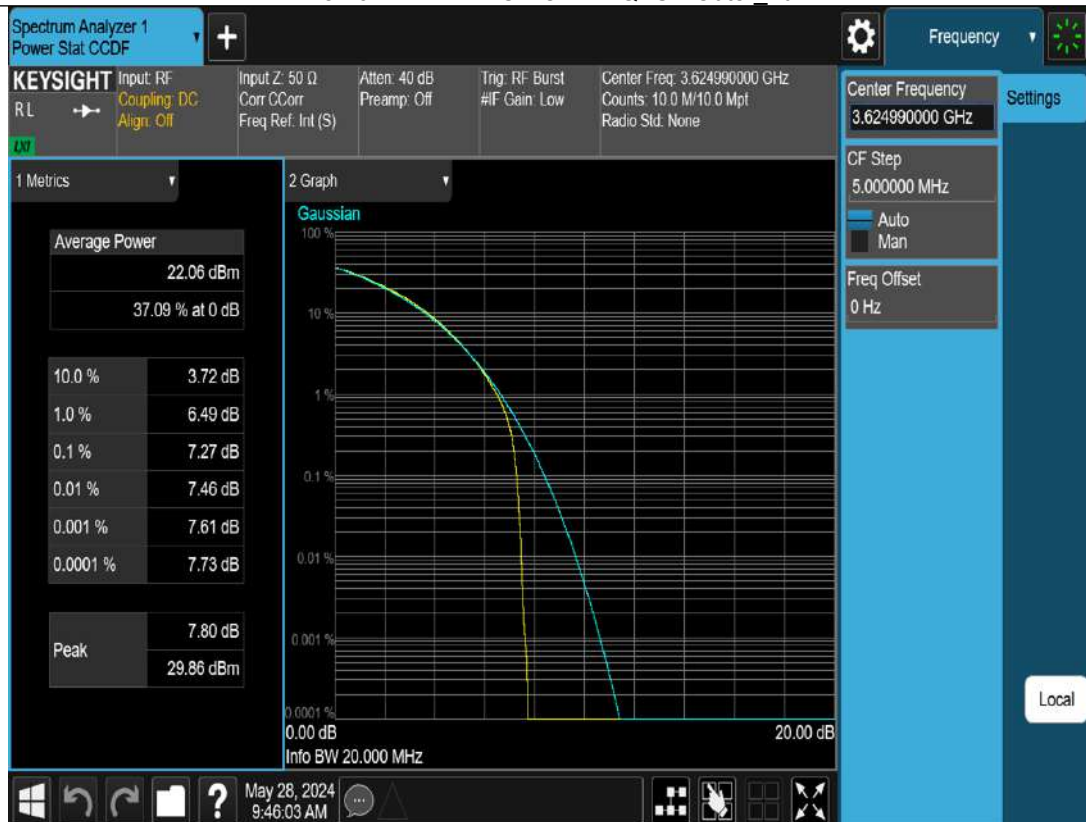
N48-10M-PAPR-M-DFT-s-OFDM-64QAM-Outer_Full



N48-10M-PAPR-M-DFT-s-OFDM-256QAM-Outer_Full



N48-10M-PAPR-M-CP-OFDM-QPSK-Outer_Full



N48-10M-PAPR-M-CP-OFDM-16QAM-Outer_Full



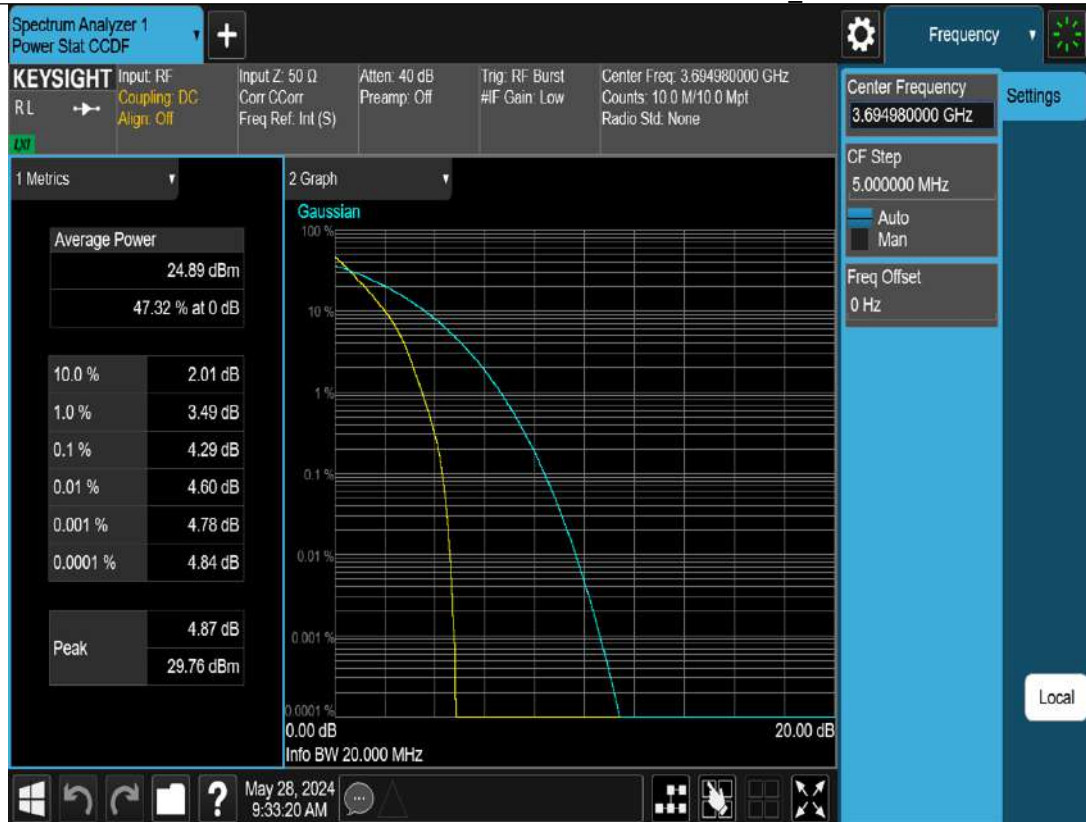
N48-10M-PAPR-M-CP-OFDM-64QAM-Outer_Full



N48-10M-PAPR-M-CP-OFDM-256QAM-Outer_Full



N48-10M-PAPR-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full



N48-10M-PAPR-H-DFT-s-OFDM-QPSK-Outer_Full



N48-10M-PAPR-H-DFT-s-OFDM-16QAM-Outer_Full



N48-10M-PAPR-H-DFT-s-OFDM-64QAM-Outer_Full



N48-10M-PAPR-H-DFT-s-OFDM-256QAM-Outer_Full



N48-10M-PAPR-H-CP-OFDM-QPSK-Outer_Full



N48-10M-PAPR-H-CP-OFDM-16QAM-Outer_Full

