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Appendix B.38

NR Band n78(3450-3550)



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99% & 26dB Bandwidth

Test Result

5G NR N78a(3450-3550MHz) SCS=30kHz 10MHz						
Modulation	Mid CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK		Outer Full	8.683	10.03	/	Pass
CP-OFDM QPSK		Outer Full	8.604	9.935	/	Pass

5G NR N78a(3450-3550MHz) SCS=30kHz 15MHz						
Modulation	Mid CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK		Outer Full	12.996	14.62	/	Pass
CP-OFDM QPSK		Outer Full	12.919	14.56	/	Pass

5G NR N78a(3450-3550MHz) SCS=30kHz 20MHz						
Modulation	Mid CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK		Outer Full	17.953	19.61	/	Pass
CP-OFDM QPSK		Outer Full	17.933	19.46	/	Pass



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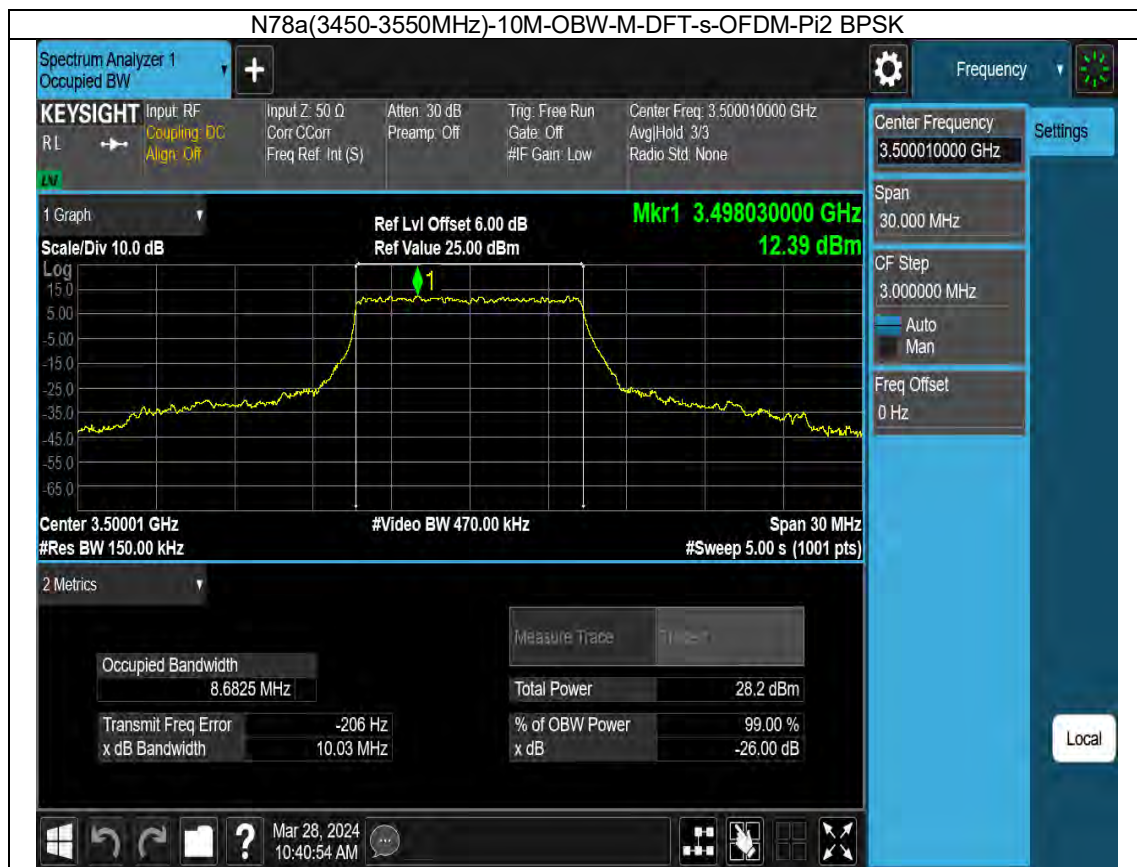
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Test Graph



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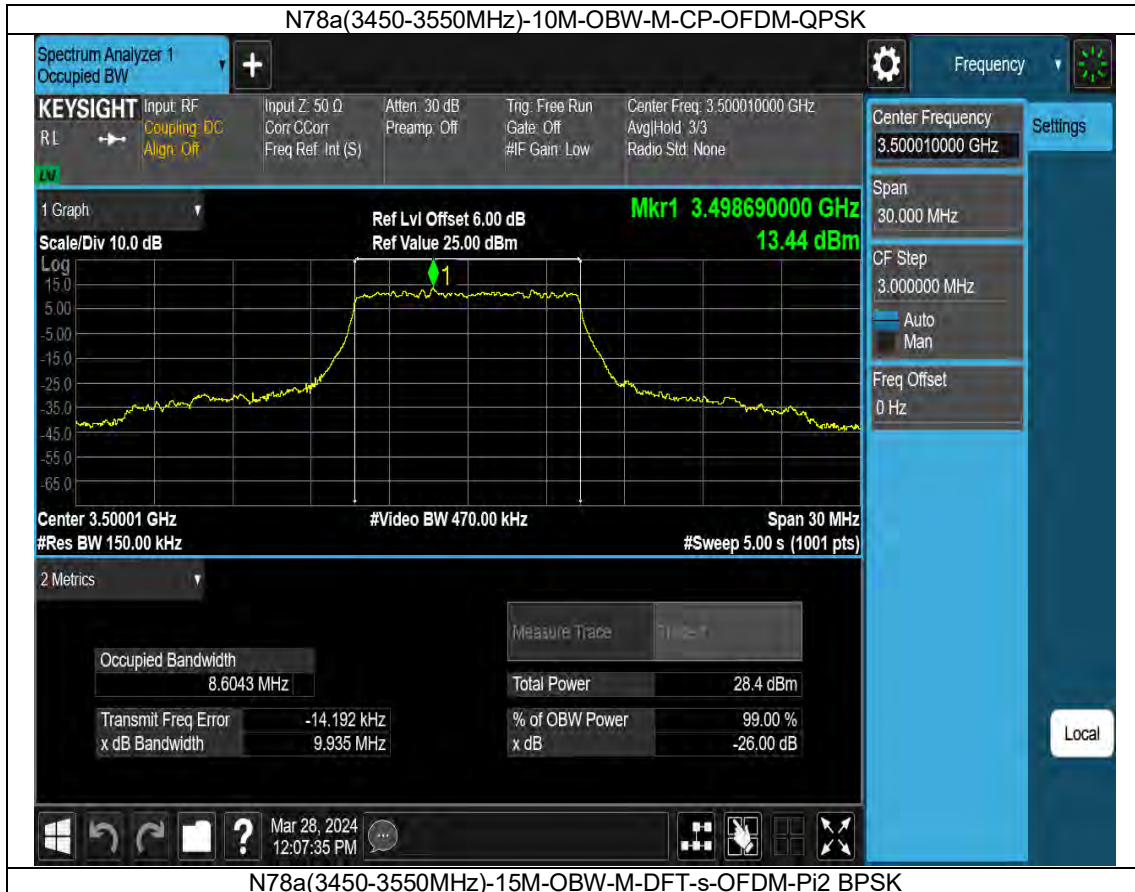
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Peak-Average Ratio

Test Result

5G NR N78a(3450-3550MHz) SCS=30kHz 10MHz					
Modulation	Mid CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	4.76	<=13	Pass
CP-OFDM QPSK		Outer_Full	4.80	<=13	Pass

5G NR N78a(3450-3550MHz) SCS=30kHz 15MHz					
Modulation	Mid CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	4.92	<=13	Pass
CP-OFDM QPSK		Outer_Full	4.98	<=13	Pass

5G NR N78a(3450-3550MHz) SCS=30kHz 20MHz					
Modulation	Mid CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	4.89	<=13	Pass
CP-OFDM QPSK		Outer_Full	4.93	<=13	Pass



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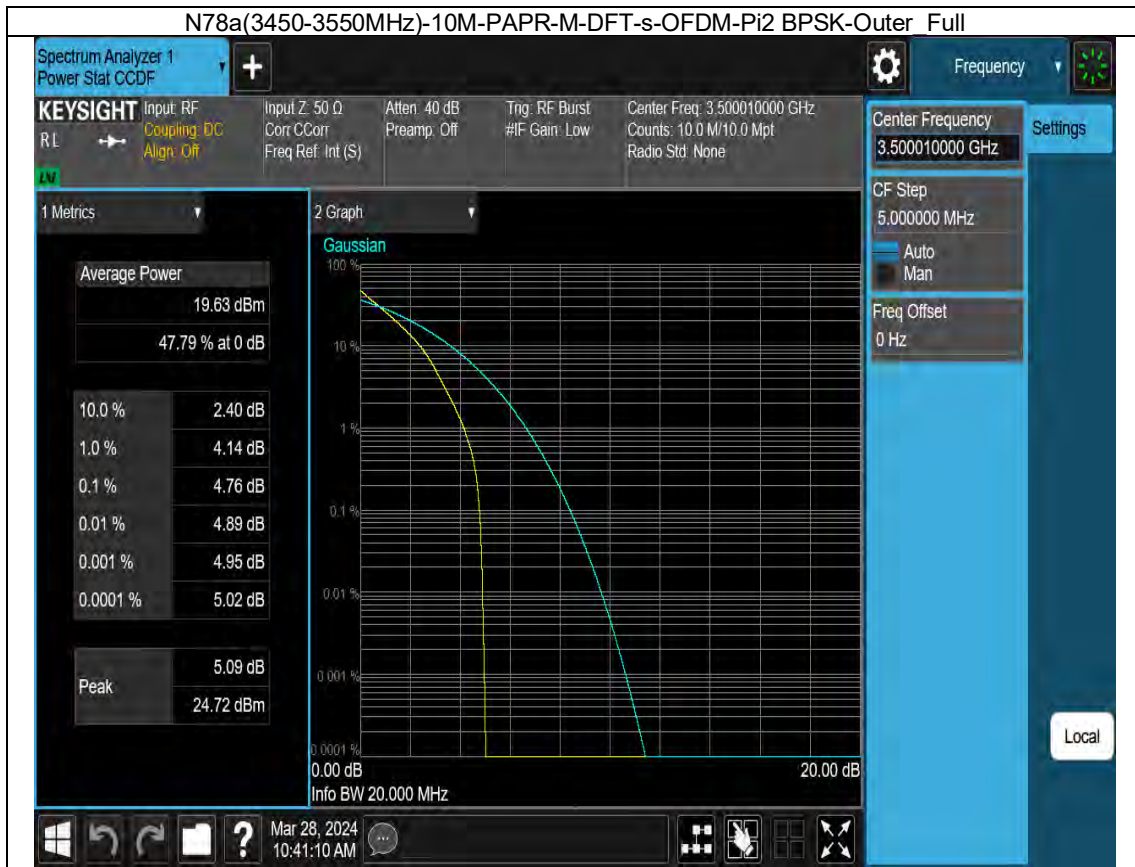
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Test Graph



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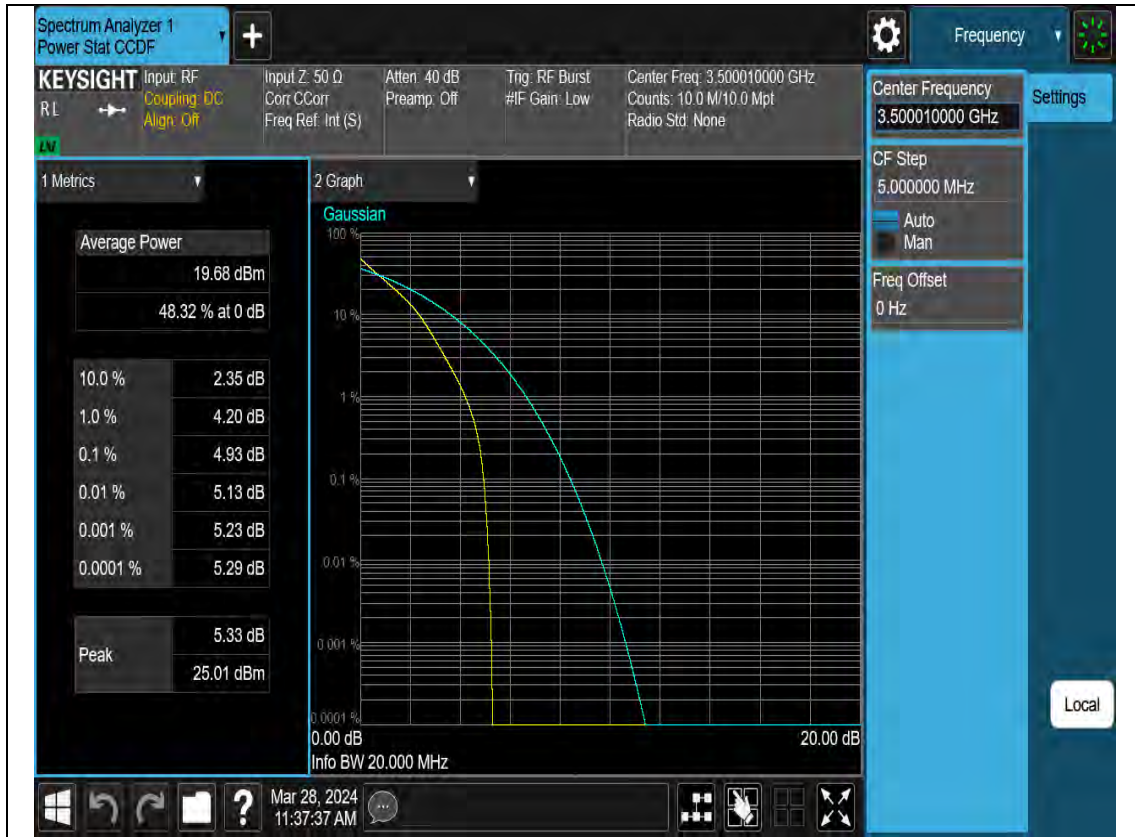
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N78a(3450-3550MHz)-20M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full



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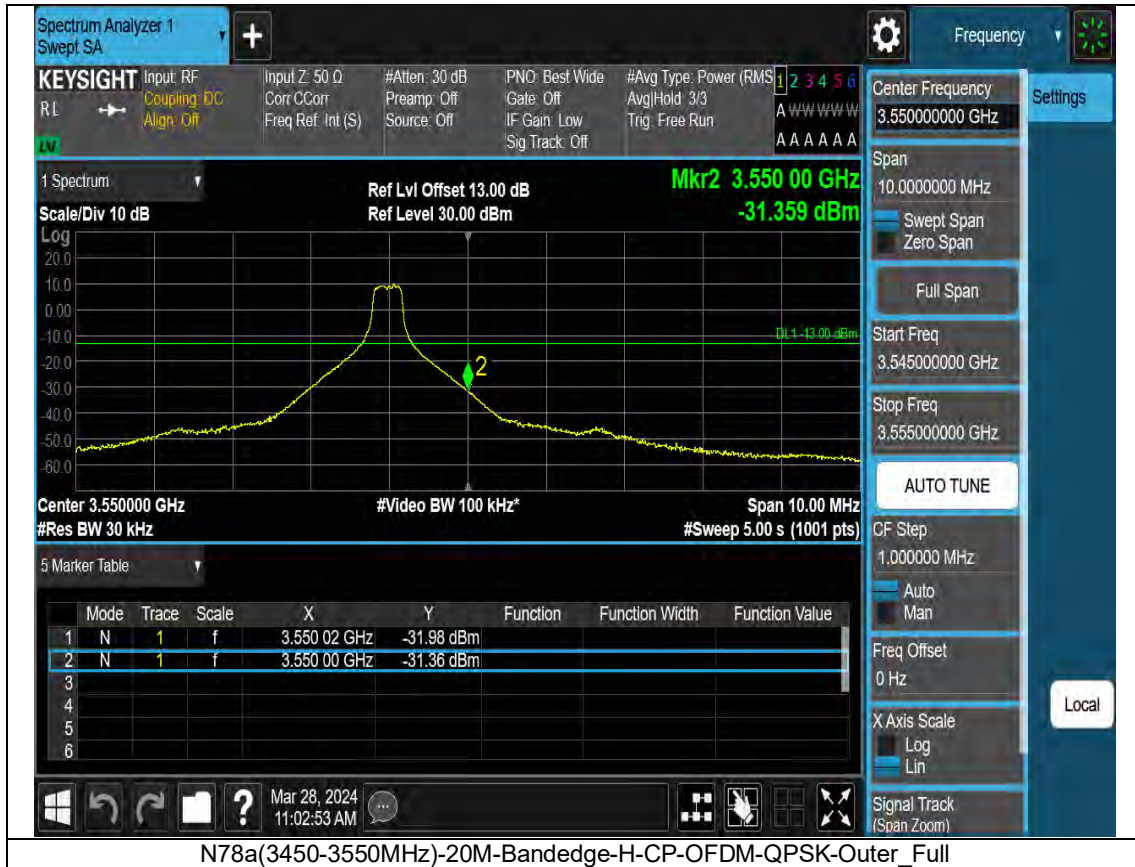
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Conducted spurious emissions test graph



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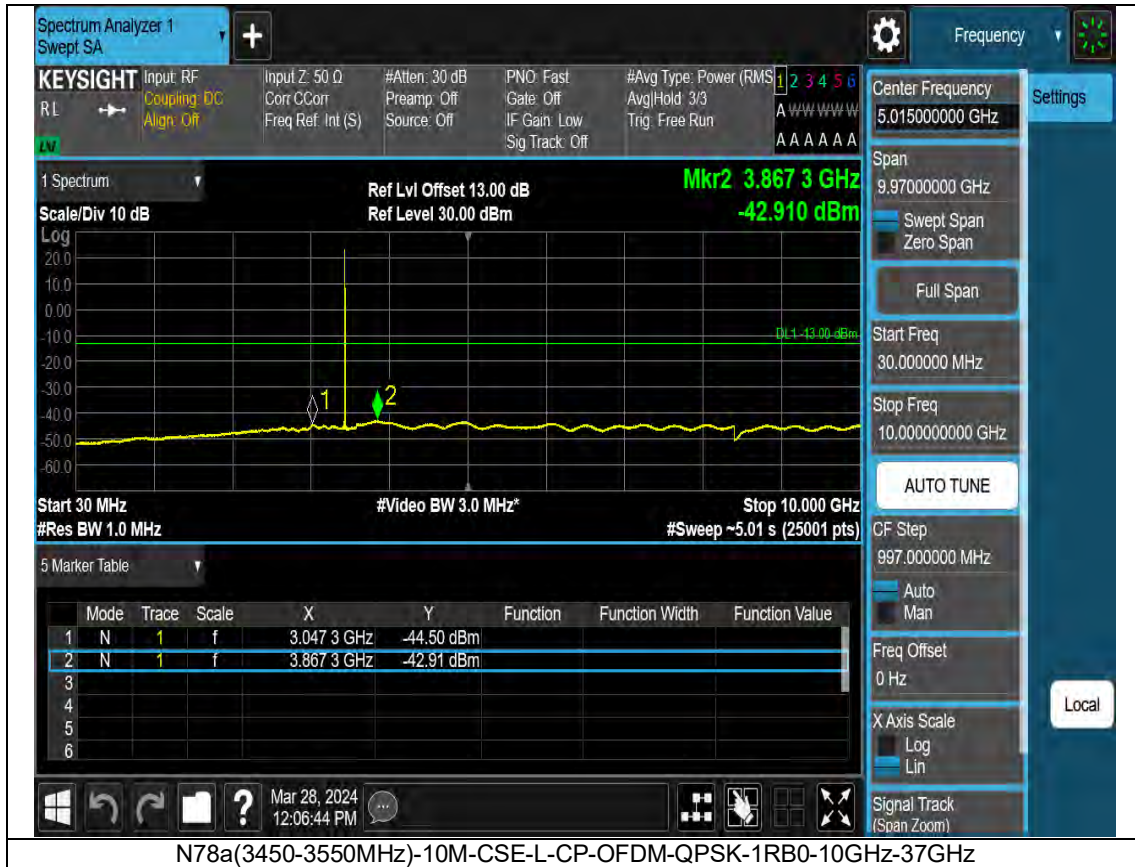
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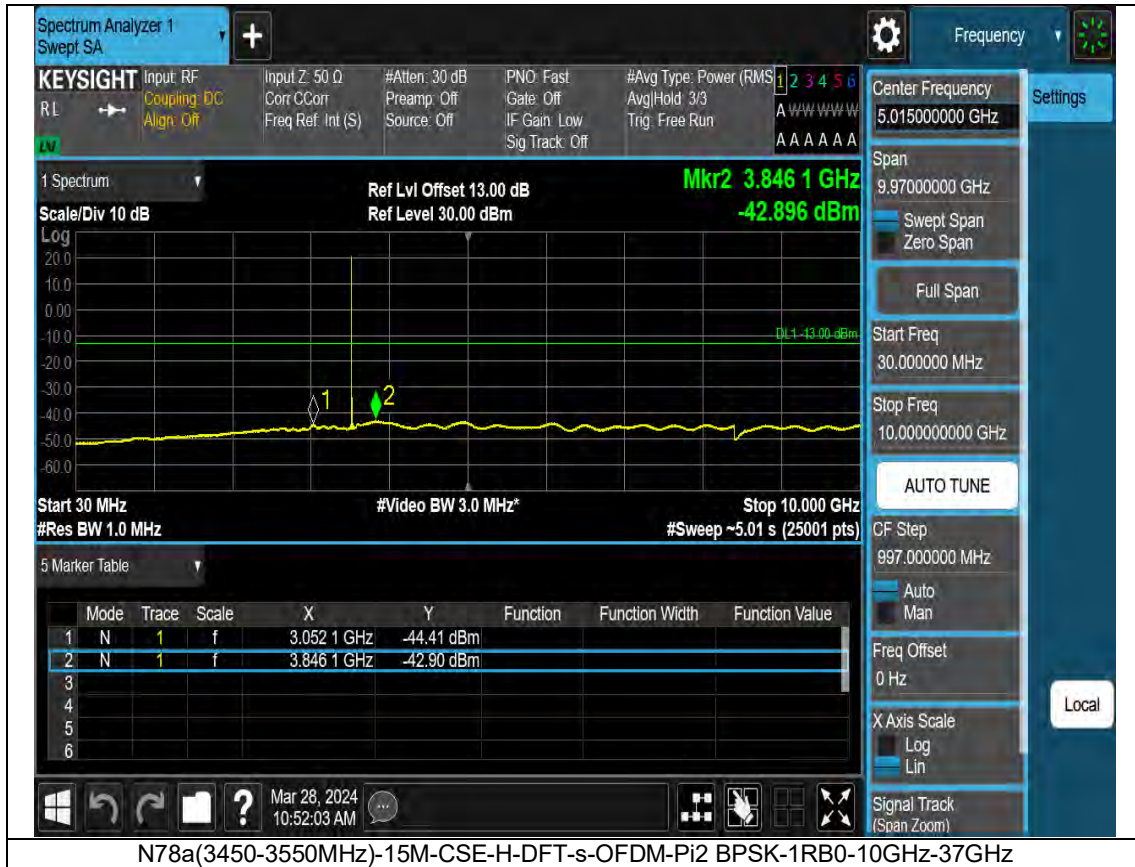
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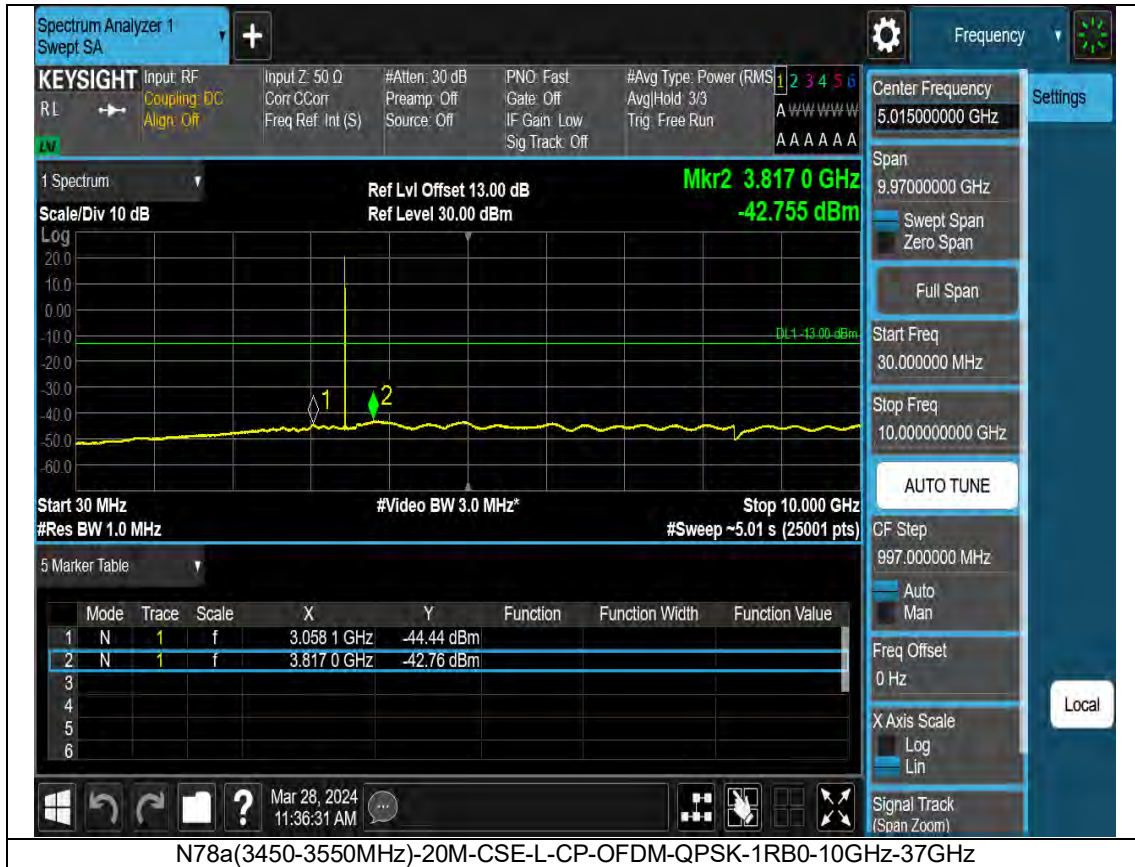
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N78a(3450-3550MHz)-20M-CSE-M-CP-OFDM-QPSK-1RB0-30MHz-10GHz



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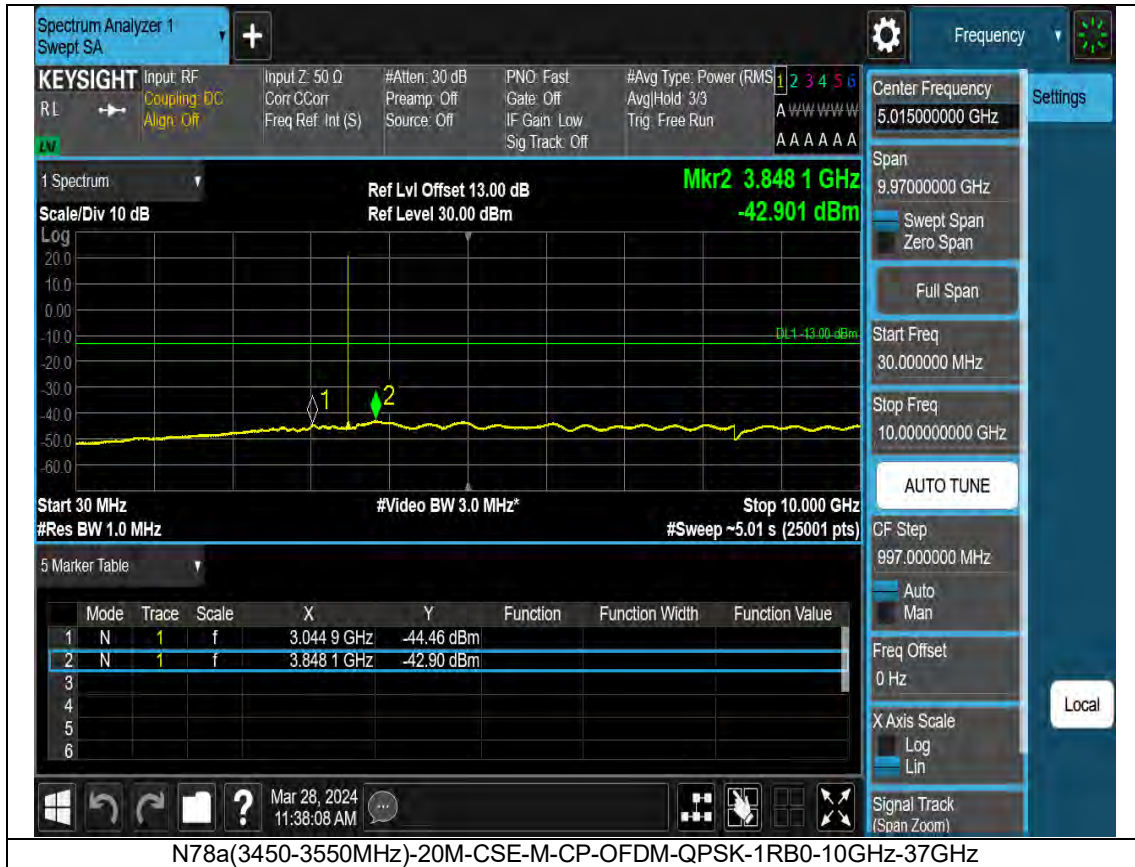
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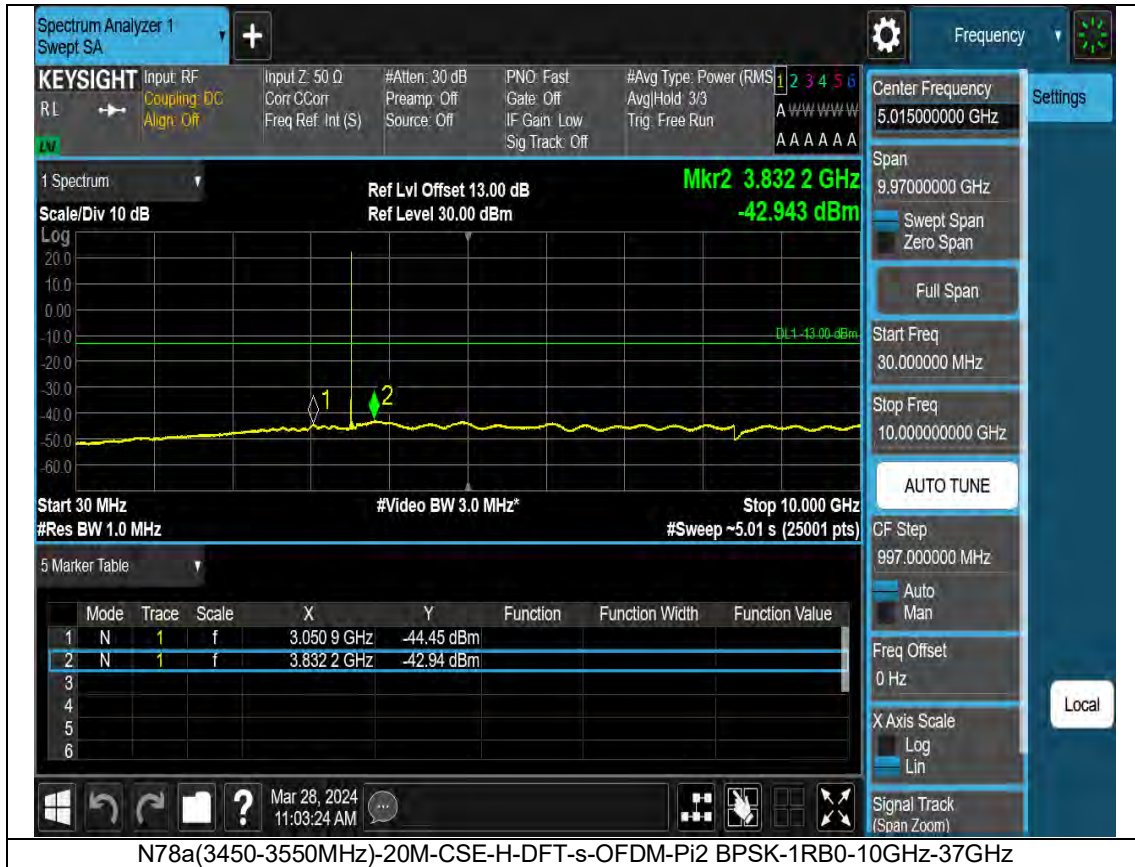
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N78a(3450-3550MHz)-20M-CSE-H-CP-OFDM-QPSK-1RB0-30MHz-10GHz



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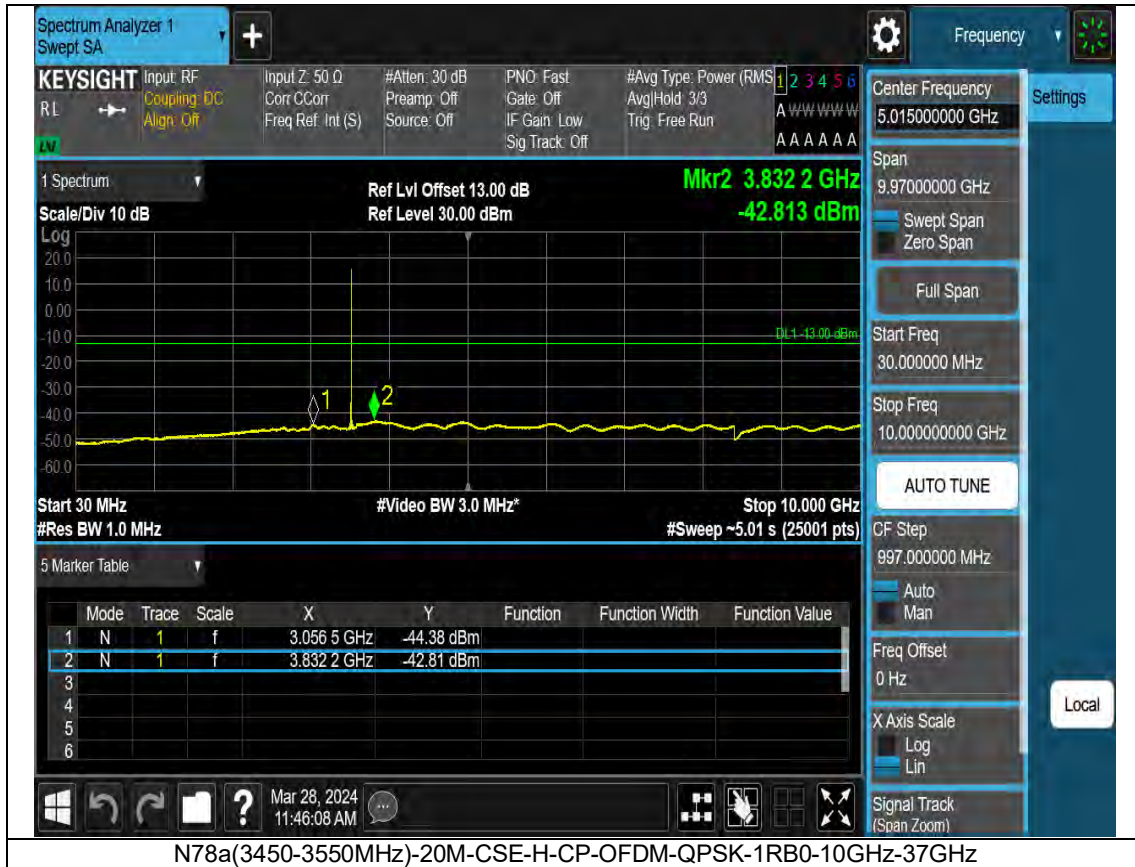
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N78a(3450-3550MHz)-20M-CSE-H-CP-OFDM-QPSK-1RB0-10GHz-37GHz



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Effective (Isotropic) Radiated Power Output Data

Bandwidth	Modulation	Frequency (MHz)	RB Allocation	Conducted Power (dBm)	EIRP (dBm)	Limit	Verdict	Gain
10MHz	DFT-s-OFDM PI/2 BPSK	3455.01MHz	Edge_Full_Left	21.98	21.85	30	Pass	-0.13
			Edge_Full_Right	21.92	21.79	30	Pass	-0.13
			Edge_1RB_Left	21.76	21.63	30	Pass	-0.13
			Edge_1RB_Right	21.84	21.71	30	Pass	-0.13
			Outer_Full	22.15	22.02	30	Pass	-0.13
			Inner_Full	22.36	22.23	30	Pass	-0.13
			Inner_1RB_Left	22.15	22.02	30	Pass	-0.13
			Inner_1RB_Right	22.26	22.13	30	Pass	-0.13
	DFT-s-OFDM QPSK		Edge_Full_Left	21.11	20.98	30	Pass	-0.13
			Edge_Full_Right	21.21	21.08	30	Pass	-0.13
			Edge_1RB_Left	21.34	21.21	30	Pass	-0.13
			Edge_1RB_Right	21.43	21.3	30	Pass	-0.13
			Outer_Full	21.64	21.51	30	Pass	-0.13
			Inner_Full	22.42	22.29	30	Pass	-0.13
			Inner_1RB_Left	22.39	22.26	30	Pass	-0.13
			Inner_1RB_Right	22.51	22.38	30	Pass	-0.13
	DFT-s-OFDM 16QAM		Edge_Full_Left	20.23	20.1	30	Pass	-0.13
			Edge_Full_Right	20.3	20.17	30	Pass	-0.13
			Edge_1RB_Left	20.17	20.04	30	Pass	-0.13
			Edge_1RB_Right	20.04	19.91	30	Pass	-0.13
			Outer_Full	20.49	20.36	30	Pass	-0.13
			Inner_Full	21.34	21.21	30	Pass	-0.13
			Inner_1RB_Left	21.02	20.89	30	Pass	-0.13
			Inner_1RB_Right	21.18	21.05	30	Pass	-0.13
	DFT-s-OFDM 64QAM		Edge_Full_Left	20	19.87	30	Pass	-0.13
			Edge_Full_Right	19.97	19.84	30	Pass	-0.13
			Edge_1RB_Left	19.88	19.75	30	Pass	-0.13
			Edge_1RB_Right	20.07	19.94	30	Pass	-0.13
			Outer_Full	20.07	19.94	30	Pass	-0.13



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CP-OFDM QPSK	Inner_Full	19.79	19.66	30	Pass	-0.13
	Inner_1RB_Left	19.96	19.83	30	Pass	-0.13
	Inner_1RB_Right	20.07	19.94	30	Pass	-0.13
	Edge_Full_Left	19.48	19.35	30	Pass	-0.13
	Edge_Full_Right	19.33	19.2	30	Pass	-0.13
	Edge_1RB_Left	18.55	18.42	30	Pass	-0.13
	Edge_1RB_Right	18.76	18.63	30	Pass	-0.13
	Outer_Full	19.53	19.4	30	Pass	-0.13
	Inner_Full	20.91	20.78	30	Pass	-0.13
CP-OFDM 16QAM	Inner_1RB_Left	20.53	20.4	30	Pass	-0.13
	Inner_1RB_Right	20.54	20.41	30	Pass	-0.13
	Edge_Full_Left	19.32	19.19	30	Pass	-0.13
	Edge_Full_Right	19.46	19.33	30	Pass	-0.13
	Edge_1RB_Left	19.09	18.96	30	Pass	-0.13
	Edge_1RB_Right	18.91	18.78	30	Pass	-0.13
	Outer_Full	19.46	19.33	30	Pass	-0.13
	Inner_Full	20.35	20.22	30	Pass	-0.13
	Inner_1RB_Left	19.92	19.79	30	Pass	-0.13
CP-OFDM 64QAM	Inner_1RB_Right	20.08	19.95	30	Pass	-0.13
	Edge_Full_Left	18.78	18.65	30	Pass	-0.13
	Edge_Full_Right	18.86	18.73	30	Pass	-0.13
	Edge_1RB_Left	18.36	18.23	30	Pass	-0.13
	Edge_1RB_Right	18.46	18.33	30	Pass	-0.13
	Outer_Full	19.15	19.02	30	Pass	-0.13
	Inner_Full	18.97	18.84	30	Pass	-0.13
	Inner_1RB_Left	18.38	18.25	30	Pass	-0.13
	Inner_1RB_Right	18.53	18.4	30	Pass	-0.13
DFT-s-OFDM PI/2 BPSK 3500.01MHz	Edge_Full_Left	21.83	21.7	30	Pass	-0.13
	Edge_Full_Right	21.73	21.6	30	Pass	-0.13
	Edge_1RB_Left	21.7	21.57	30	Pass	-0.13
	Edge_1RB_Right	21.62	21.49	30	Pass	-0.13
	Outer_Full	22.12	21.99	30	Pass	-0.13
	Inner_Full	22.23	22.1	30	Pass	-0.13



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DFT-s-OFDM QPSK	Inner_1RB_Left	22	21.87	30	Pass	-0.13
	Inner_1RB_Right	22.04	21.91	30	Pass	-0.13
	Edge_Full_Left	21.31	21.18	30	Pass	-0.13
	Edge_Full_Right	21.23	21.1	30	Pass	-0.13
	Edge_1RB_Left	21.26	21.13	30	Pass	-0.13
	Edge_1RB_Right	20.97	20.84	30	Pass	-0.13
	Outer_Full	21.51	21.38	30	Pass	-0.13
	Inner_Full	22.32	22.19	30	Pass	-0.13
	Inner_1RB_Left	22.2	22.07	30	Pass	-0.13
DFT-s-OFDM 16QAM	Inner_1RB_Right	22.15	22.02	30	Pass	-0.13
	Edge_Full_Left	20.32	20.19	30	Pass	-0.13
	Edge_Full_Right	20.25	20.12	30	Pass	-0.13
	Edge_1RB_Left	20	19.87	30	Pass	-0.13
	Edge_1RB_Right	19.96	19.83	30	Pass	-0.13
	Outer_Full	20.56	20.43	30	Pass	-0.13
	Inner_Full	21.28	21.15	30	Pass	-0.13
	Inner_1RB_Left	21.05	20.92	30	Pass	-0.13
	Inner_1RB_Right	21.07	20.94	30	Pass	-0.13
DFT-s-OFDM 64QAM	Edge_Full_Left	20.08	19.95	30	Pass	-0.13
	Edge_Full_Right	20.07	19.94	30	Pass	-0.13
	Edge_1RB_Left	19.63	19.5	30	Pass	-0.13
	Edge_1RB_Right	19.53	19.4	30	Pass	-0.13
	Outer_Full	20.02	19.89	30	Pass	-0.13
	Inner_Full	19.79	19.66	30	Pass	-0.13
	Inner_1RB_Left	19.71	19.58	30	Pass	-0.13
	Inner_1RB_Right	19.67	19.54	30	Pass	-0.13
	Edge_Full_Left	19.46	19.33	30	Pass	-0.13
CP-OFDM QPSK	Edge_Full_Right	19.24	19.11	30	Pass	-0.13
	Edge_1RB_Left	18.56	18.43	30	Pass	-0.13
	Edge_1RB_Right	18.56	18.43	30	Pass	-0.13
	Outer_Full	19.67	19.54	30	Pass	-0.13
	Inner_Full	20.72	20.59	30	Pass	-0.13
	Inner_1RB_Left	20.18	20.05	30	Pass	-0.13



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CP-OFDM 16QAM		Inner_1RB_Right	20.44	20.31	30	Pass	-0.13
		Edge_Full_Left	19.16	19.03	30	Pass	-0.13
		Edge_Full_Right	19.14	19.01	30	Pass	-0.13
		Edge_1RB_Left	18.9	18.77	30	Pass	-0.13
		Edge_1RB_Right	18.71	18.58	30	Pass	-0.13
		Outer_Full	19.48	19.35	30	Pass	-0.13
		Inner_Full	20.31	20.18	30	Pass	-0.13
		Inner_1RB_Left	19.8	19.67	30	Pass	-0.13
CP-OFDM 64QAM		Inner_1RB_Right	19.96	19.83	30	Pass	-0.13
		Edge_Full_Left	18.73	18.6	30	Pass	-0.13
		Edge_Full_Right	18.85	18.72	30	Pass	-0.13
		Edge_1RB_Left	18.27	18.14	30	Pass	-0.13
		Edge_1RB_Right	18.29	18.16	30	Pass	-0.13
		Outer_Full	19.1	18.97	30	Pass	-0.13
		Inner_Full	18.9	18.77	30	Pass	-0.13
		Inner_1RB_Left	18.17	18.04	30	Pass	-0.13
DFT-s-OFDM PI/2 BPSK	3545.01MHz	Inner_1RB_Right	18.67	18.54	30	Pass	-0.13
		Edge_Full_Left	21.3	21.17	30	Pass	-0.13
		Edge_Full_Right	21.22	21.09	30	Pass	-0.13
		Edge_1RB_Left	21.24	21.11	30	Pass	-0.13
		Edge_1RB_Right	20.95	20.82	30	Pass	-0.13
		Outer_Full	21.54	21.41	30	Pass	-0.13
		Inner_Full	21.9	21.77	30	Pass	-0.13
		Inner_1RB_Left	21.57	21.44	30	Pass	-0.13
DFT-s-OFDM QPSK		Inner_1RB_Right	21.4	21.27	30	Pass	-0.13
		Edge_Full_Left	20.78	20.65	30	Pass	-0.13
		Edge_Full_Right	20.73	20.6	30	Pass	-0.13
		Edge_1RB_Left	20.79	20.66	30	Pass	-0.13
		Edge_1RB_Right	20.54	20.41	30	Pass	-0.13
		Outer_Full	21.11	20.98	30	Pass	-0.13
		Inner_Full	21.9	21.77	30	Pass	-0.13
		Inner_1RB_Left	21.81	21.68	30	Pass	-0.13
		Inner_1RB_Right	21.73	21.6	30	Pass	-0.13



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DFT-s-OFDM 16QAM	Edge_Full_Left	19.83	19.7	30	Pass	-0.13
	Edge_Full_Right	19.56	19.43	30	Pass	-0.13
	Edge_1RB_Left	19.74	19.61	30	Pass	-0.13
	Edge_1RB_Right	19.51	19.38	30	Pass	-0.13
	Outer_Full	20.08	19.95	30	Pass	-0.13
	Inner_Full	20.77	20.64	30	Pass	-0.13
	Inner_1RB_Left	20.78	20.65	30	Pass	-0.13
	Inner_1RB_Right	20.73	20.6	30	Pass	-0.13
DFT-s-OFDM 64QAM	Edge_Full_Left	19.4	19.27	30	Pass	-0.13
	Edge_Full_Right	19.45	19.32	30	Pass	-0.13
	Edge_1RB_Left	19.81	19.68	30	Pass	-0.13
	Edge_1RB_Right	19.75	19.62	30	Pass	-0.13
	Outer_Full	19.63	19.5	30	Pass	-0.13
	Inner_Full	19.35	19.22	30	Pass	-0.13
	Inner_1RB_Left	19.82	19.69	30	Pass	-0.13
	Inner_1RB_Right	19.79	19.66	30	Pass	-0.13
CP-OFDM QPSK	Edge_Full_Left	18.92	18.79	30	Pass	-0.13
	Edge_Full_Right	19.02	18.89	30	Pass	-0.13
	Edge_1RB_Left	18.6	18.47	30	Pass	-0.13
	Edge_1RB_Right	18.7	18.57	30	Pass	-0.13
	Outer_Full	19.17	19.04	30	Pass	-0.13
	Inner_Full	20.31	20.18	30	Pass	-0.13
	Inner_1RB_Left	19.92	19.79	30	Pass	-0.13
	Inner_1RB_Right	19.55	19.42	30	Pass	-0.13
CP-OFDM 16QAM	Edge_Full_Left	19.03	18.9	30	Pass	-0.13
	Edge_Full_Right	18.82	18.69	30	Pass	-0.13
	Edge_1RB_Left	18.38	18.25	30	Pass	-0.13
	Edge_1RB_Right	18.35	18.22	30	Pass	-0.13
	Outer_Full	19	18.87	30	Pass	-0.13
	Inner_Full	19.81	19.68	30	Pass	-0.13
	Inner_1RB_Left	19.63	19.5	30	Pass	-0.13
	Inner_1RB_Right	19.38	19.25	30	Pass	-0.13
CP-OFDM 64QAM	Edge_Full_Left	18.43	18.3	30	Pass	-0.13



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			Edge_Full_Right	18.09	17.96	30	Pass	-0.13	
			Edge_1RB_Left	17.89	17.76	30	Pass	-0.13	
			Edge_1RB_Right	17.88	17.75	30	Pass	-0.13	
			Outer_Full	18.57	18.44	30	Pass	-0.13	
			Inner_Full	18.45	18.32	30	Pass	-0.13	
			Inner_1RB_Left	17.98	17.85	30	Pass	-0.13	
			Inner_1RB_Right	18.06	17.93	30	Pass	-0.13	
15MHz	DFT-s-OFDM PI/2 BPSK	3457.5MHz	Edge_Full_Left	21.77	21.64	30	Pass	-0.13	
			Edge_Full_Right	21.78	21.65	30	Pass	-0.13	
			Edge_1RB_Left	21.7	21.57	30	Pass	-0.13	
			Edge_1RB_Right	21.79	21.66	30	Pass	-0.13	
			Outer_Full	22.07	21.94	30	Pass	-0.13	
			Inner_Full	22.44	22.31	30	Pass	-0.13	
			Inner_1RB_Left	22.3	22.17	30	Pass	-0.13	
				Inner_1RB_Right	22.35	22.22	30	Pass	-0.13
	DFT-s-OFDM QPSK			Edge_Full_Left	21.36	21.23	30	Pass	-0.13
				Edge_Full_Right	21.34	21.21	30	Pass	-0.13
				Edge_1RB_Left	20.82	20.69	30	Pass	-0.13
				Edge_1RB_Right	21.07	20.94	30	Pass	-0.13
				Outer_Full	21.46	21.33	30	Pass	-0.13
				Inner_Full	22.37	22.24	30	Pass	-0.13
				Inner_1RB_Left	21.95	21.82	30	Pass	-0.13
				Inner_1RB_Right	22	21.87	30	Pass	-0.13
	DFT-s-OFDM 16QAM			Edge_Full_Left	20.26	20.13	30	Pass	-0.13
				Edge_Full_Right	20.36	20.23	30	Pass	-0.13
				Edge_1RB_Left	20.09	19.96	30	Pass	-0.13
				Edge_1RB_Right	20.27	20.14	30	Pass	-0.13
Outer_Full				20.41	20.28	30	Pass	-0.13	
Inner_Full				21.42	21.29	30	Pass	-0.13	
Inner_1RB_Left				21.12	20.99	30	Pass	-0.13	
			Inner_1RB_Right	21.29	21.16	30	Pass	-0.13	
DFT-s-OFDM 64QAM			Edge_Full_Left	20.02	19.89	30	Pass	-0.13	
			Edge_Full_Right	19.98	19.85	30	Pass	-0.13	



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CP-OFDM QPSK	Edge_1RB_Left	19.52	19.39	30	Pass	-0.13	
	Edge_1RB_Right	19.62	19.49	30	Pass	-0.13	
	Outer_Full	20.13	20	30	Pass	-0.13	
	Inner_Full	19.84	19.71	30	Pass	-0.13	
	Inner_1RB_Left	19.76	19.63	30	Pass	-0.13	
	Inner_1RB_Right	19.61	19.48	30	Pass	-0.13	
	Edge_Full_Left	19.21	19.08	30	Pass	-0.13	
	Edge_Full_Right	19.27	19.14	30	Pass	-0.13	
	Edge_1RB_Left	19.45	19.32	30	Pass	-0.13	
	Edge_1RB_Right	19.62	19.49	30	Pass	-0.13	
	Outer_Full	19.68	19.55	30	Pass	-0.13	
	Inner_Full	20.78	20.65	30	Pass	-0.13	
CP-OFDM 16QAM	Inner_1RB_Left	21.13	21	30	Pass	-0.13	
	Inner_1RB_Right	20.94	20.81	30	Pass	-0.13	
	Edge_Full_Left	18.94	18.81	30	Pass	-0.13	
	Edge_Full_Right	18.84	18.71	30	Pass	-0.13	
	Edge_1RB_Left	19.23	19.1	30	Pass	-0.13	
	Edge_1RB_Right	19.12	18.99	30	Pass	-0.13	
	Outer_Full	19.59	19.46	30	Pass	-0.13	
	Inner_Full	20.37	20.24	30	Pass	-0.13	
	Inner_1RB_Left	20.16	20.03	30	Pass	-0.13	
	Inner_1RB_Right	20.17	20.04	30	Pass	-0.13	
	CP-OFDM 64QAM	Edge_Full_Left	18.59	18.46	30	Pass	-0.13
		Edge_Full_Right	18.55	18.42	30	Pass	-0.13
Edge_1RB_Left		19.1	18.97	30	Pass	-0.13	
Edge_1RB_Right		18.84	18.71	30	Pass	-0.13	
Outer_Full		19.02	18.89	30	Pass	-0.13	
Inner_Full		18.83	18.7	30	Pass	-0.13	
Inner_1RB_Left		18.78	18.65	30	Pass	-0.13	
Inner_1RB_Right		19.08	18.95	30	Pass	-0.13	
DFT-s-OFDM PI/2 BPSK 3500.01MHz		Edge_Full_Left	21.86	21.73	30	Pass	-0.13
		Edge_Full_Right	21.65	21.52	30	Pass	-0.13
		Edge_1RB_Left	21.91	21.78	30	Pass	-0.13



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DFT-s-OFDM QPSK	Edge_1RB_Right	21.48	21.35	30	Pass	-0.13	
	Outer_Full	22.05	21.92	30	Pass	-0.13	
	Inner_Full	22.41	22.28	30	Pass	-0.13	
	Inner_1RB_Left	22.4	22.27	30	Pass	-0.13	
	Inner_1RB_Right	22.24	22.11	30	Pass	-0.13	
	Edge_Full_Left	21.28	21.15	30	Pass	-0.13	
	Edge_Full_Right	21.09	20.96	30	Pass	-0.13	
	Edge_1RB_Left	20.9	20.77	30	Pass	-0.13	
	Edge_1RB_Right	20.8	20.67	30	Pass	-0.13	
	Outer_Full	21.44	21.31	30	Pass	-0.13	
	Inner_Full	22.17	22.04	30	Pass	-0.13	
	Inner_1RB_Left	22.1	21.97	30	Pass	-0.13	
DFT-s-OFDM 16QAM	Inner_1RB_Right	21.98	21.85	30	Pass	-0.13	
	Edge_Full_Left	20.25	20.12	30	Pass	-0.13	
	Edge_Full_Right	20.08	19.95	30	Pass	-0.13	
	Edge_1RB_Left	20.53	20.4	30	Pass	-0.13	
	Edge_1RB_Right	20.27	20.14	30	Pass	-0.13	
	Outer_Full	20.39	20.26	30	Pass	-0.13	
	Inner_Full	21.29	21.16	30	Pass	-0.13	
	Inner_1RB_Left	21.32	21.19	30	Pass	-0.13	
	Inner_1RB_Right	21.16	21.03	30	Pass	-0.13	
	Edge_Full_Left	20.03	19.9	30	Pass	-0.13	
	Edge_Full_Right	19.82	19.69	30	Pass	-0.13	
	Edge_1RB_Left	19.52	19.39	30	Pass	-0.13	
DFT-s-OFDM 64QAM	Edge_1RB_Right	19.28	19.15	30	Pass	-0.13	
	Outer_Full	20.06	19.93	30	Pass	-0.13	
	Inner_Full	19.9	19.77	30	Pass	-0.13	
	Inner_1RB_Left	19.51	19.38	30	Pass	-0.13	
	Inner_1RB_Right	19.45	19.32	30	Pass	-0.13	
	Edge_Full_Left	19.26	19.13	30	Pass	-0.13	
	Edge_Full_Right	19.05	18.92	30	Pass	-0.13	
	Edge_1RB_Left	19.43	19.3	30	Pass	-0.13	
	CP-OFDM QPSK	Edge_1RB_Right	19.53	19.4	30	Pass	-0.13



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CP-OFDM 16QAM		Outer_Full	19.67	19.54	30	Pass	-0.13		
		Inner_Full	20.69	20.56	30	Pass	-0.13		
		Inner_1RB_Left	20.98	20.85	30	Pass	-0.13		
		Inner_1RB_Right	20.81	20.68	30	Pass	-0.13		
		Edge_Full_Left	18.91	18.78	30	Pass	-0.13		
		Edge_Full_Right	18.84	18.71	30	Pass	-0.13		
		Edge_1RB_Left	19.14	19.01	30	Pass	-0.13		
		Edge_1RB_Right	18.89	18.76	30	Pass	-0.13		
		Outer_Full	19.4	19.27	30	Pass	-0.13		
		Inner_Full	20.27	20.14	30	Pass	-0.13		
		Inner_1RB_Left	20.11	19.98	30	Pass	-0.13		
		Inner_1RB_Right	20.11	19.98	30	Pass	-0.13		
CP-OFDM 64QAM		Edge_Full_Left	18.51	18.38	30	Pass	-0.13		
		Edge_Full_Right	18.2	18.07	30	Pass	-0.13		
		Edge_1RB_Left	19.09	18.96	30	Pass	-0.13		
		Edge_1RB_Right	18.86	18.73	30	Pass	-0.13		
		Outer_Full	18.91	18.78	30	Pass	-0.13		
		Inner_Full	18.85	18.72	30	Pass	-0.13		
		Inner_1RB_Left	18.83	18.7	30	Pass	-0.13		
		Inner_1RB_Right	18.99	18.86	30	Pass	-0.13		
		DFT-s-OFDM PI/2 BPSK	3542.52MHz	Edge_Full_Left	21.23	21.1	30	Pass	-0.13
				Edge_Full_Right	21.1	20.97	30	Pass	-0.13
				Edge_1RB_Left	21.15	21.02	30	Pass	-0.13
				Edge_1RB_Right	21.13	21	30	Pass	-0.13
Outer_Full	21.48			21.35	30	Pass	-0.13		
Inner_Full	21.8			21.67	30	Pass	-0.13		
Inner_1RB_Left	21.73			21.6	30	Pass	-0.13		
Inner_1RB_Right	21.65			21.52	30	Pass	-0.13		
DFT-s-OFDM QPSK				Edge_Full_Left	20.77	20.64	30	Pass	-0.13
				Edge_Full_Right	20.6	20.47	30	Pass	-0.13
				Edge_1RB_Left	20.49	20.36	30	Pass	-0.13
				Edge_1RB_Right	20.22	20.09	30	Pass	-0.13
		Outer_Full	20.82	20.69	30	Pass	-0.13		



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DFT-s-OFDM 16QAM	Inner_Full	21.78	21.65	30	Pass	-0.13
	Inner_1RB_Left	21.73	21.6	30	Pass	-0.13
	Inner_1RB_Right	21.53	21.4	30	Pass	-0.13
	Edge_Full_Left	19.63	19.5	30	Pass	-0.13
	Edge_Full_Right	19.56	19.43	30	Pass	-0.13
	Edge_1RB_Left	19.7	19.57	30	Pass	-0.13
	Edge_1RB_Right	19.47	19.34	30	Pass	-0.13
	Outer_Full	19.85	19.72	30	Pass	-0.13
	Inner_Full	20.86	20.73	30	Pass	-0.13
DFT-s-OFDM 64QAM	Inner_1RB_Left	20.59	20.46	30	Pass	-0.13
	Inner_1RB_Right	20.65	20.52	30	Pass	-0.13
	Edge_Full_Left	19.51	19.38	30	Pass	-0.13
	Edge_Full_Right	19.23	19.1	30	Pass	-0.13
	Edge_1RB_Left	18.94	18.81	30	Pass	-0.13
	Edge_1RB_Right	18.89	18.76	30	Pass	-0.13
	Outer_Full	19.37	19.24	30	Pass	-0.13
	Inner_Full	19.42	19.29	30	Pass	-0.13
	Inner_1RB_Left	18.99	18.86	30	Pass	-0.13
CP-OFDM QPSK	Inner_1RB_Right	18.81	18.68	30	Pass	-0.13
	Edge_Full_Left	19.12	18.99	30	Pass	-0.13
	Edge_Full_Right	18.74	18.61	30	Pass	-0.13
	Edge_1RB_Left	19.05	18.92	30	Pass	-0.13
	Edge_1RB_Right	18.86	18.73	30	Pass	-0.13
	Outer_Full	19.08	18.95	30	Pass	-0.13
	Inner_Full	20.22	20.09	30	Pass	-0.13
	Inner_1RB_Left	20.76	20.63	30	Pass	-0.13
	Inner_1RB_Right	20.11	19.98	30	Pass	-0.13
CP-OFDM 16QAM	Edge_Full_Left	18.77	18.64	30	Pass	-0.13
	Edge_Full_Right	18.12	17.99	30	Pass	-0.13
	Edge_1RB_Left	18.64	18.51	30	Pass	-0.13
	Edge_1RB_Right	18.46	18.33	30	Pass	-0.13
	Outer_Full	18.87	18.74	30	Pass	-0.13
	Inner_Full	19.88	19.75	30	Pass	-0.13



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CP-OFDM 64QAM	Inner_1RB_Left	19.94	19.81	30	Pass	-0.13	
	Inner_1RB_Right	19.44	19.31	30	Pass	-0.13	
	Edge_Full_Left	18.38	18.25	30	Pass	-0.13	
	Edge_Full_Right	18.01	17.88	30	Pass	-0.13	
	Edge_1RB_Left	18.41	18.28	30	Pass	-0.13	
	Edge_1RB_Right	18.14	18.01	30	Pass	-0.13	
	Outer_Full	18.52	18.39	30	Pass	-0.13	
	Inner_Full	18.24	18.11	30	Pass	-0.13	
	Inner_1RB_Left	18.59	18.46	30	Pass	-0.13	
	Inner_1RB_Right	18.31	18.18	30	Pass	-0.13	
DFT-s-OFDM PI/2 BPSK	Edge_Full_Left	22.04	21.91	30	Pass	-0.13	
	Edge_Full_Right	22.19	22.06	30	Pass	-0.13	
	Edge_1RB_Left	21.88	21.75	30	Pass	-0.13	
	Edge_1RB_Right	21.93	21.8	30	Pass	-0.13	
	Outer_Full	22.18	22.05	30	Pass	-0.13	
	Inner_Full	22.51	22.38	30	Pass	-0.13	
	Inner_1RB_Left	22.23	22.1	30	Pass	-0.13	
	Inner_1RB_Right	22.41	22.28	30	Pass	-0.13	
	DFT-s-OFDM QPSK	Edge_Full_Left	21.23	21.1	30	Pass	-0.13
		Edge_Full_Right	21.51	21.38	30	Pass	-0.13
Edge_1RB_Left		21.3	21.17	30	Pass	-0.13	
Edge_1RB_Right		21.52	21.39	30	Pass	-0.13	
Outer_Full		21.79	21.66	30	Pass	-0.13	
Inner_Full		22.5	22.37	30	Pass	-0.13	
Inner_1RB_Left		22.18	22.05	30	Pass	-0.13	
Inner_1RB_Right		22.26	22.13	30	Pass	-0.13	
DFT-s-OFDM 16QAM		Edge_Full_Left	20.33	20.2	30	Pass	-0.13
		Edge_Full_Right	20.43	20.3	30	Pass	-0.13
	Edge_1RB_Left	20.34	20.21	30	Pass	-0.13	
	Edge_1RB_Right	20.42	20.29	30	Pass	-0.13	
	Outer_Full	20.76	20.63	30	Pass	-0.13	
	Inner_Full	21.54	21.41	30	Pass	-0.13	
	Inner_1RB_Left	21.15	21.02	30	Pass	-0.13	



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DFT-s-OFDM 64QAM	Inner_1RB_Right	21.3	21.17	30	Pass	-0.13
	Edge_Full_Left	19.99	19.86	30	Pass	-0.13
	Edge_Full_Right	19.95	19.82	30	Pass	-0.13
	Edge_1RB_Left	19.86	19.73	30	Pass	-0.13
	Edge_1RB_Right	19.85	19.72	30	Pass	-0.13
	Outer_Full	20.27	20.14	30	Pass	-0.13
	Inner_Full	19.92	19.79	30	Pass	-0.13
	Inner_1RB_Left	19.85	19.72	30	Pass	-0.13
CP-OFDM QPSK	Inner_1RB_Right	19.87	19.74	30	Pass	-0.13
	Edge_Full_Left	19.28	19.15	30	Pass	-0.13
	Edge_Full_Right	19.39	19.26	30	Pass	-0.13
	Edge_1RB_Left	19.18	19.05	30	Pass	-0.13
	Edge_1RB_Right	19.18	19.05	30	Pass	-0.13
	Outer_Full	19.72	19.59	30	Pass	-0.13
	Inner_Full	20.99	20.86	30	Pass	-0.13
	Inner_1RB_Left	21.07	20.94	30	Pass	-0.13
CP-OFDM 16QAM	Inner_1RB_Right	20.99	20.86	30	Pass	-0.13
	Edge_Full_Left	19.6	19.47	30	Pass	-0.13
	Edge_Full_Right	19.7	19.57	30	Pass	-0.13
	Edge_1RB_Left	19.12	18.99	30	Pass	-0.13
	Edge_1RB_Right	19.4	19.27	30	Pass	-0.13
	Outer_Full	19.75	19.62	30	Pass	-0.13
	Inner_Full	20.46	20.33	30	Pass	-0.13
	Inner_1RB_Left	20.18	20.05	30	Pass	-0.13
CP-OFDM 64QAM	Inner_1RB_Right	20.26	20.13	30	Pass	-0.13
	Edge_Full_Left	18.58	18.45	30	Pass	-0.13
	Edge_Full_Right	18.92	18.79	30	Pass	-0.13
	Edge_1RB_Left	18.99	18.86	30	Pass	-0.13
	Edge_1RB_Right	18.8	18.67	30	Pass	-0.13
	Outer_Full	19.14	19.01	30	Pass	-0.13
	Inner_Full	19.11	18.98	30	Pass	-0.13
	Inner_1RB_Left	18.63	18.5	30	Pass	-0.13
	Inner_1RB_Right	19.14	19.01	30	Pass	-0.13



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DFT-s-OFDM PI/2 BPSK	3500.01MHz	Edge_Full_Left	21.98	21.85	30	Pass	-0.13
		Edge_Full_Right	21.65	21.52	30	Pass	-0.13
		Edge_1RB_Left	21.98	21.85	30	Pass	-0.13
		Edge_1RB_Right	21.59	21.46	30	Pass	-0.13
		Outer_Full	22.27	22.14	30	Pass	-0.13
		Inner_Full	22.36	22.23	30	Pass	-0.13
		Inner_1RB_Left	22.36	22.23	30	Pass	-0.13
		Inner_1RB_Right	22.15	22.02	30	Pass	-0.13
DFT-s-OFDM QPSK	3500.01MHz	Edge_Full_Left	21.41	21.28	30	Pass	-0.13
		Edge_Full_Right	21.33	21.2	30	Pass	-0.13
		Edge_1RB_Left	21.07	20.94	30	Pass	-0.13
		Edge_1RB_Right	21.1	20.97	30	Pass	-0.13
		Outer_Full	21.63	21.5	30	Pass	-0.13
		Inner_Full	22.25	22.12	30	Pass	-0.13
		Inner_1RB_Left	22.25	22.12	30	Pass	-0.13
		Inner_1RB_Right	22.02	21.89	30	Pass	-0.13
DFT-s-OFDM 16QAM	3500.01MHz	Edge_Full_Left	20.14	20.01	30	Pass	-0.13
		Edge_Full_Right	20.01	19.88	30	Pass	-0.13
		Edge_1RB_Left	19.88	19.75	30	Pass	-0.13
		Edge_1RB_Right	19.83	19.7	30	Pass	-0.13
		Outer_Full	20.49	20.36	30	Pass	-0.13
		Inner_Full	21.32	21.19	30	Pass	-0.13
		Inner_1RB_Left	21.05	20.92	30	Pass	-0.13
		Inner_1RB_Right	20.76	20.63	30	Pass	-0.13
DFT-s-OFDM 64QAM	3500.01MHz	Edge_Full_Left	20.04	19.91	30	Pass	-0.13
		Edge_Full_Right	19.79	19.66	30	Pass	-0.13
		Edge_1RB_Left	19.82	19.69	30	Pass	-0.13
		Edge_1RB_Right	19.76	19.63	30	Pass	-0.13
		Outer_Full	20.16	20.03	30	Pass	-0.13
		Inner_Full	19.85	19.72	30	Pass	-0.13
		Inner_1RB_Left	19.82	19.69	30	Pass	-0.13
		Inner_1RB_Right	19.68	19.55	30	Pass	-0.13
CP-OFDM QPSK		Edge_Full_Left	19.21	19.08	30	Pass	-0.13



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		Edge_Full_Right	19.18	19.05	30	Pass	-0.13
		Edge_1RB_Left	19.47	19.34	30	Pass	-0.13
		Edge_1RB_Right	19.37	19.24	30	Pass	-0.13
		Outer_Full	19.68	19.55	30	Pass	-0.13
		Inner_Full	20.86	20.73	30	Pass	-0.13
		Inner_1RB_Left	20.86	20.73	30	Pass	-0.13
		Inner_1RB_Right	20.83	20.7	30	Pass	-0.13
CP-OFDM 16QAM		Edge_Full_Left	19.38	19.25	30	Pass	-0.13
		Edge_Full_Right	19.1	18.97	30	Pass	-0.13
		Edge_1RB_Left	19.65	19.52	30	Pass	-0.13
		Edge_1RB_Right	19.52	19.39	30	Pass	-0.13
		Outer_Full	19.69	19.56	30	Pass	-0.13
		Inner_Full	20.28	20.15	30	Pass	-0.13
		Inner_1RB_Left	20.74	20.61	30	Pass	-0.13
CP-OFDM 64QAM		Inner_1RB_Right	20.49	20.36	30	Pass	-0.13
		Edge_Full_Left	18.79	18.66	30	Pass	-0.13
		Edge_Full_Right	18.63	18.5	30	Pass	-0.13
		Edge_1RB_Left	18.51	18.38	30	Pass	-0.13
		Edge_1RB_Right	18.49	18.36	30	Pass	-0.13
		Outer_Full	19.17	19.04	30	Pass	-0.13
		Inner_Full	18.86	18.73	30	Pass	-0.13
DFT-s-OFDM PI/2 BPSK	3540MHz	Inner_1RB_Left	18.56	18.43	30	Pass	-0.13
		Inner_1RB_Right	18.51	18.38	30	Pass	-0.13
		Edge_Full_Left	21.46	21.33	30	Pass	-0.13
		Edge_Full_Right	21.25	21.12	30	Pass	-0.13
		Edge_1RB_Left	21.32	21.19	30	Pass	-0.13
		Edge_1RB_Right	21.29	21.16	30	Pass	-0.13
		Outer_Full	21.63	21.5	30	Pass	-0.13
DFT-s-OFDM QPSK		Inner_Full	21.95	21.82	30	Pass	-0.13
		Inner_1RB_Left	21.82	21.69	30	Pass	-0.13
		Inner_1RB_Right	21.59	21.46	30	Pass	-0.13
		Edge_Full_Left	20.74	20.61	30	Pass	-0.13
		Edge_Full_Right	20.59	20.46	30	Pass	-0.13



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DFT-s-OFDM 16QAM	Edge_1RB_Left	20.58	20.45	30	Pass	-0.13	
	Edge_1RB_Right	20.46	20.33	30	Pass	-0.13	
	Outer_Full	21.1	20.97	30	Pass	-0.13	
	Inner_Full	21.74	21.61	30	Pass	-0.13	
	Inner_1RB_Left	21.53	21.4	30	Pass	-0.13	
	Inner_1RB_Right	21.52	21.39	30	Pass	-0.13	
	Edge_Full_Left	19.74	19.61	30	Pass	-0.13	
	Edge_Full_Right	19.5	19.37	30	Pass	-0.13	
	Edge_1RB_Left	19.48	19.35	30	Pass	-0.13	
	Edge_1RB_Right	19.31	19.18	30	Pass	-0.13	
	Outer_Full	20.03	19.9	30	Pass	-0.13	
	Inner_Full	20.9	20.77	30	Pass	-0.13	
DFT-s-OFDM 64QAM	Inner_1RB_Left	20.5	20.37	30	Pass	-0.13	
	Inner_1RB_Right	20.38	20.25	30	Pass	-0.13	
	Edge_Full_Left	19.2	19.07	30	Pass	-0.13	
	Edge_Full_Right	19.07	18.94	30	Pass	-0.13	
	Edge_1RB_Left	19.42	19.29	30	Pass	-0.13	
	Edge_1RB_Right	19.15	19.02	30	Pass	-0.13	
	Outer_Full	19.53	19.4	30	Pass	-0.13	
	Inner_Full	19.27	19.14	30	Pass	-0.13	
	Inner_1RB_Left	19.21	19.08	30	Pass	-0.13	
	Inner_1RB_Right	19.08	18.95	30	Pass	-0.13	
	CP-OFDM QPSK	Edge_Full_Left	18.78	18.65	30	Pass	-0.13
		Edge_Full_Right	18.75	18.62	30	Pass	-0.13
Edge_1RB_Left		19.03	18.9	30	Pass	-0.13	
Edge_1RB_Right		19.14	19.01	30	Pass	-0.13	
Outer_Full		19.14	19.01	30	Pass	-0.13	
Inner_Full		20.37	20.24	30	Pass	-0.13	
Inner_1RB_Left		20.58	20.45	30	Pass	-0.13	
Inner_1RB_Right		20.36	20.23	30	Pass	-0.13	
CP-OFDM 16QAM		Edge_Full_Left	18.79	18.66	30	Pass	-0.13
		Edge_Full_Right	18.6	18.47	30	Pass	-0.13
		Edge_1RB_Left	19.04	18.91	30	Pass	-0.13



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CP-OFDM 64QAM	Edge_1RB_Right	19.01	18.88	30	Pass	-0.13
	Outer_Full	19	18.87	30	Pass	-0.13
	Inner_Full	19.96	19.83	30	Pass	-0.13
	Inner_1RB_Left	20	19.87	30	Pass	-0.13
	Inner_1RB_Right	19.7	19.57	30	Pass	-0.13
	Edge_Full_Left	18.08	17.95	30	Pass	-0.13
	Edge_Full_Right	18.15	18.02	30	Pass	-0.13
	Edge_1RB_Left	18.38	18.25	30	Pass	-0.13
	Edge_1RB_Right	18.08	17.95	30	Pass	-0.13
	Outer_Full	18.6	18.47	30	Pass	-0.13
	Inner_Full	18.35	18.22	30	Pass	-0.13
	Inner_1RB_Left	18.24	18.11	30	Pass	-0.13
	Inner_1RB_Right	17.9	17.77	30	Pass	-0.13



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Frequency Stability

Bandwidth	Modulation	Frequency(MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Result (ppm)	Verdict
10MHz	DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-6.29	-0.0033	Pass
					HV	4.29	0.0023	Pass
				-30	NV	-4.79	-0.0025	Pass
				-20	NV	5.17	0.0028	Pass
				-10	NV	4.85	0.0026	Pass
				0	NV	-8.02	-0.0043	Pass
				10	NV	-3.62	-0.0019	Pass
				20	NV	-3.28	-0.0017	Pass
				30	NV	2.15	0.0011	Pass
				40	NV	8.63	0.0046	Pass
	50			NV	-5.47	-0.0029	Pass	
	CP-OFDM QPSK			20	LV	2.64	0.0014	Pass
					HV	-3.72	-0.0020	Pass
				-30	NV	2.56	0.0014	Pass
				-20	NV	5.36	0.0029	Pass
				-10	NV	-3.93	-0.0021	Pass
				0	NV	7.07	0.0038	Pass
				10	NV	9.57	0.0051	Pass
				20	NV	-2.21	-0.0012	Pass
				30	NV	-6.34	-0.0034	Pass
40		NV	6.49	0.0035	Pass			
50	NV	-4.42	-0.0024	Pass				
15MHz	DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	7.92	0.0042	Pass
					HV	7.13	0.0038	Pass
				-30	NV	5.15	0.0027	Pass
				-20	NV	3.62	0.0019	Pass
				-10	NV	-8.96	-0.0048	Pass
				0	NV	-6.7	-0.0036	Pass
10	NV	-4.72	-0.0025	Pass				



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				20	NV	-8.56	-0.0046	Pass			
				30	NV	6.6	0.0035	Pass			
				40	NV	6.87	0.0037	Pass			
				50	NV	-4.71	-0.0025	Pass			
	CP-OFDM QPSK			20	LV	-4	-0.0021	Pass			
					HV	3.95	0.0021	Pass			
				-30	NV	9.95	0.0053	Pass			
				-20	NV	-3.72	-0.0020	Pass			
				-10	NV	-6.42	-0.0034	Pass			
				0	NV	-3.52	-0.0019	Pass			
				10	NV	2.55	0.0014	Pass			
				20	NV	3.29	0.0018	Pass			
				30	NV	5.61	0.0030	Pass			
				40	NV	-8.71	-0.0046	Pass			
				50	NV	-8.02	-0.0043	Pass			
20MHz		DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-5.14	-0.0027	Pass		
						HV	2.95	0.0016	Pass		
						-30	NV	-9.78	-0.0052	Pass	
						-20	NV	-9.32	-0.0050	Pass	
					-10	NV	4.55	0.0024	Pass		
					0	NV	-2.53	-0.0013	Pass		
					10	NV	-3.59	-0.0019	Pass		
					20	NV	3.89	0.0021	Pass		
					30	NV	-4.92	-0.0026	Pass		
		40			NV	5.59	0.0030	Pass			
		50			NV	-4.52	-0.0024	Pass			
		CP-OFDM QPSK					20	LV	-4.1	-0.0022	Pass
						HV		2.63	0.0014	Pass	
							-30	NV	-2.8	-0.0015	Pass
							-20	NV	-4.04	-0.0021	Pass
							-10	NV	2.37	0.0013	Pass
							0	NV	5.98	0.0032	Pass
							10	NV	-6.91	-0.0037	Pass
				20	NV	-6.6	-0.0035	Pass			



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				30	NV	-6.96	-0.0037	Pass
				40	NV	8.31	0.0044	Pass
				50	NV	6.9	0.0037	Pass



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Field Strength of Spurious Radiation

NR Band n78-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
6920.04	-51.19	-13	-38.19	-57.475	4.21	10.49	Horizontal	Pass
10380.06	-49.08	-13	-36.08	-57.03	5.08	13.03	Horizontal	Pass
13840.08	-44.53	-13	-31.53	-53.495	5.23	14.19	Horizontal	Pass
6920.04	-51.02	-13	-38.02	-57.305	4.21	10.49	Vertical	Pass
10380.06	-48.39	-13	-35.39	-56.34	5.08	13.03	Vertical	Pass
13840.08	-44.47	-13	-31.47	-53.435	5.23	14.19	Vertical	Pass

NR Band n78-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7000.02	-51.03	-13	-38.03	-57.97	4.19	11.13	Horizontal	Pass
10500.03	-46.86	-13	-33.86	-54.905	5.08	13.12	Horizontal	Pass
14000.04	-44.67	-13	-31.67	-54.33	4.82	14.48	Horizontal	Pass
7000.02	-50.97	-13	-37.97	-57.91	4.19	11.13	Vertical	Pass
10500.03	-48.97	-13	-35.97	-57.015	5.08	13.12	Vertical	Pass
14000.04	-44.3	-13	-31.3	-53.96	4.82	14.48	Vertical	Pass

NR Band n78-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7080	-49.94	-13	-36.94	-56.88	4.19	11.13	Horizontal	Pass
10620	-47.97	-13	-34.97	-56.015	5.08	13.12	Horizontal	Pass
14160	-46.51	-13	-33.51	-56.17	4.82	14.48	Horizontal	Pass
7080	-50.61	-13	-37.61	-57.55	4.19	11.13	Vertical	Pass
10620	-47.72	-13	-34.72	-55.765	5.08	13.12	Vertical	Pass
14160	-46.11	-13	-33.11	-55.77	4.82	14.48	Vertical	Pass

---End of Attachment---



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