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Appendix B.39

NR Band n78(3700-3800)



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99% & 26dB Bandwidth

Test Result

5G NR N78b(3700-3800MHz) 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	8.619	9.887	/	Pass
CP-OFDM QPSK		Outer Full	8.628	9.809	/	Pass

5G NR N78b(3700-3800MHz) 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	12.958	14.54	/	Pass
CP-OFDM QPSK		Outer Full	13.002	14.65	/	Pass

5G NR N78b(3700-3800MHz) 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	17.923	19.71	/	Pass
CP-OFDM QPSK		Outer Full	17.994	19.72	/	Pass



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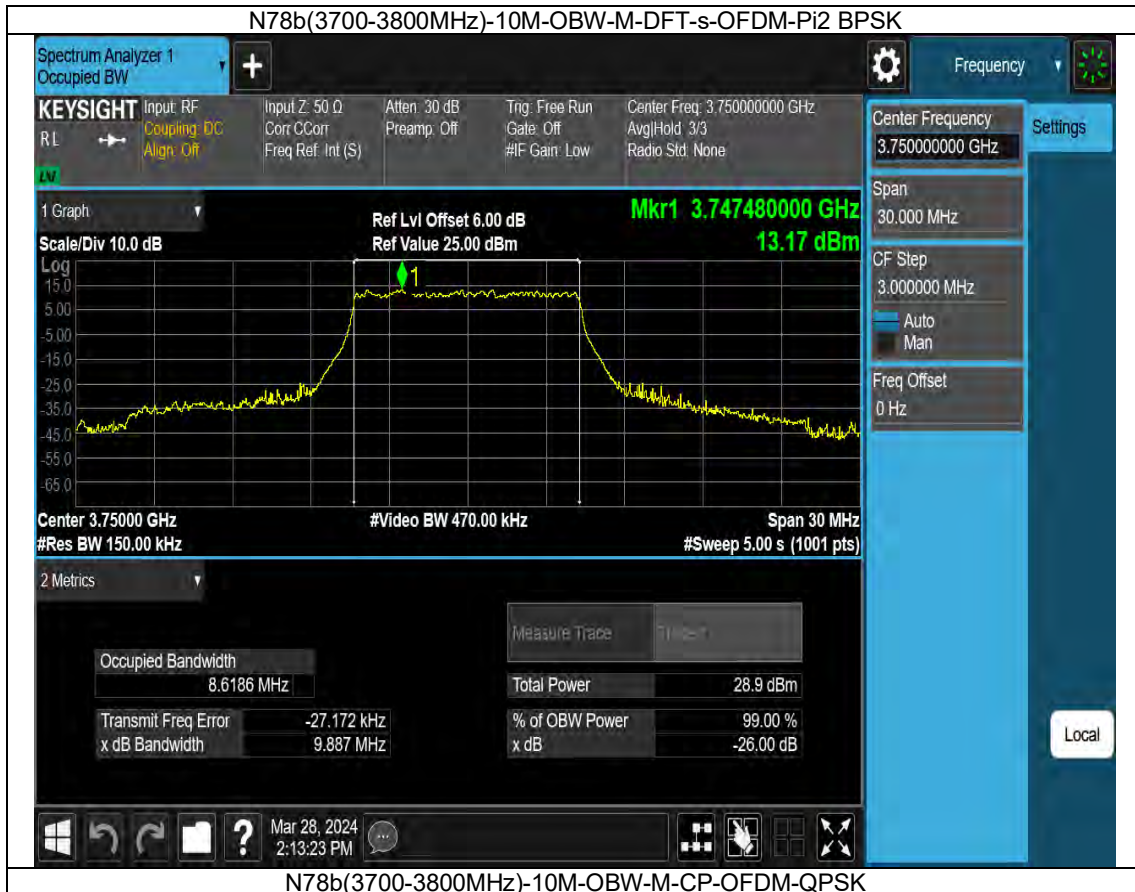
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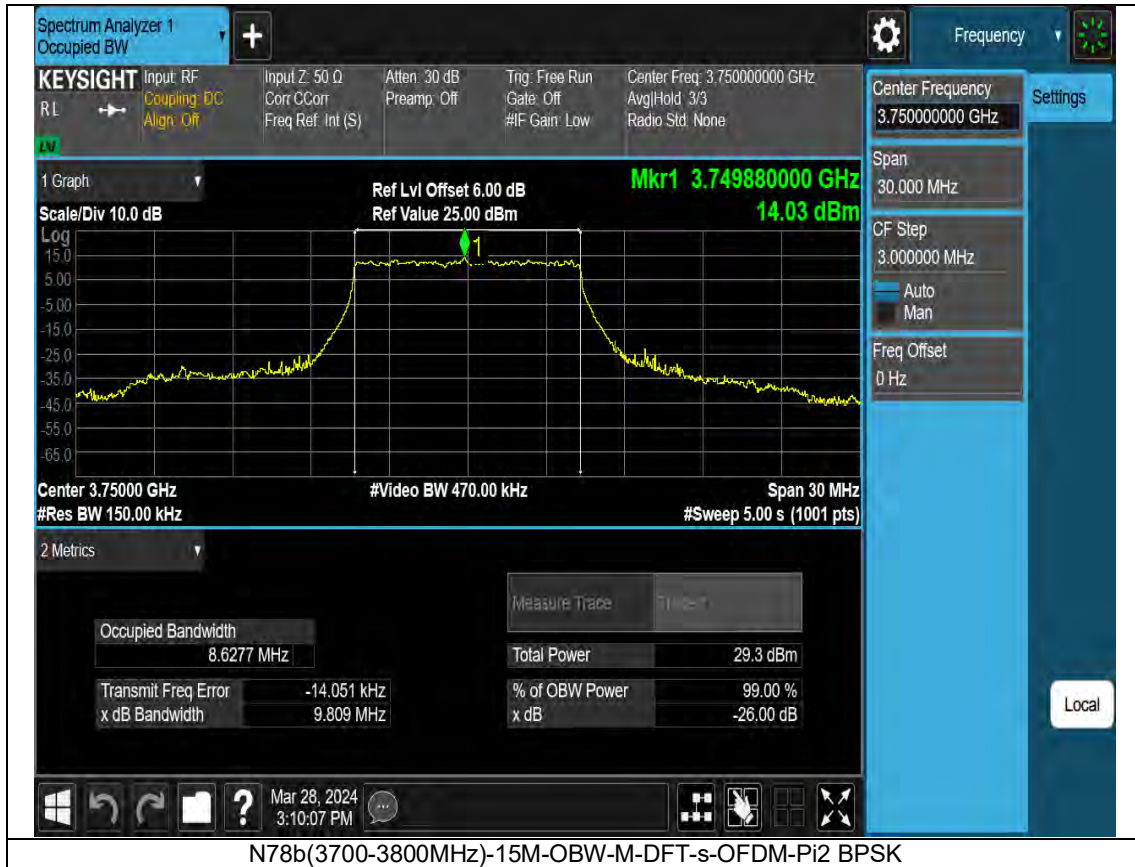
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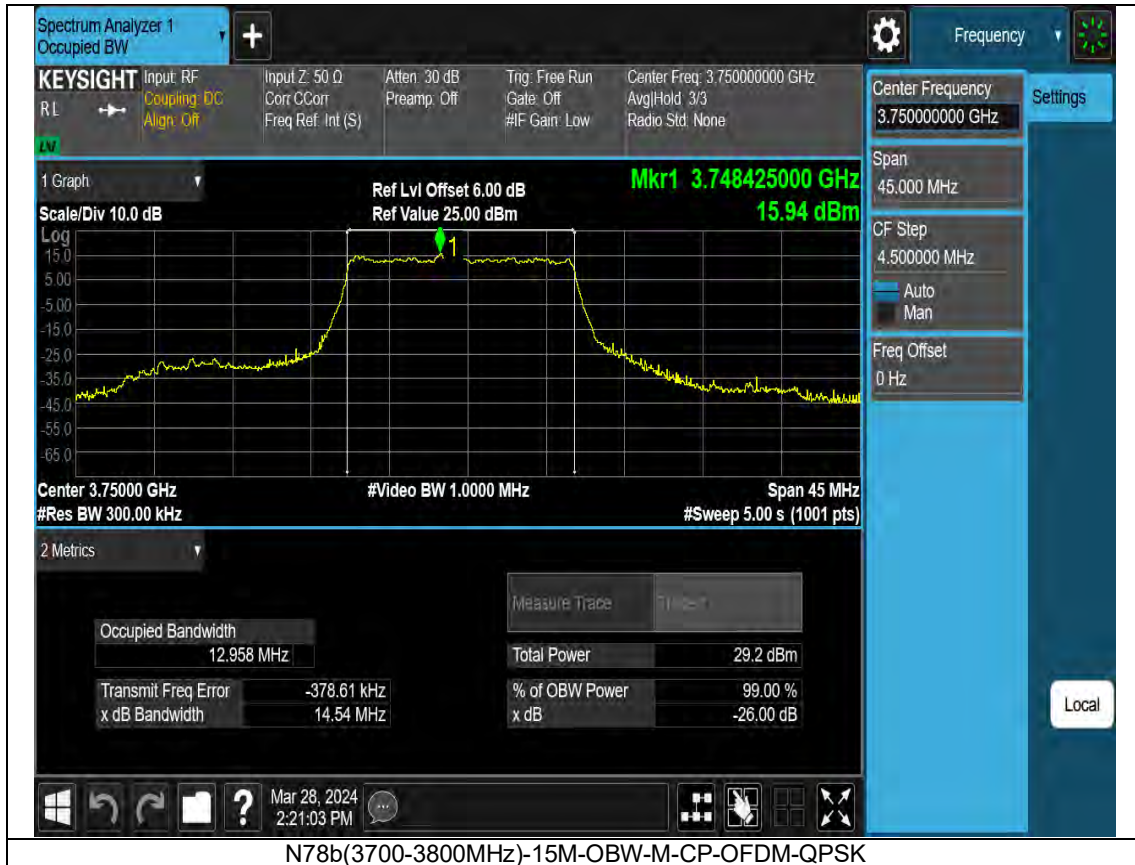
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Peak-Average Ratio

Test Result

5G NR N78b(3700-3800MHz) SCS=30kHz 10MHz					
Modulation	Mid CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	5.16	<=13	Pass
CP-OFDM QPSK		Outer_Full	5.19	<=13	Pass

5G NR N78b(3700-3800MHz) SCS=30kHz 15MHz					
Modulation	Mid CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	4.61	<=13	Pass
CP-OFDM QPSK		Outer_Full	4.63	<=13	Pass

5G NR N78b(3700-3800MHz) SCS=30kHz 20MHz					
Modulation	Mid CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	5.16	<=13	Pass
CP-OFDM QPSK		Outer_Full	5.14	<=13	Pass



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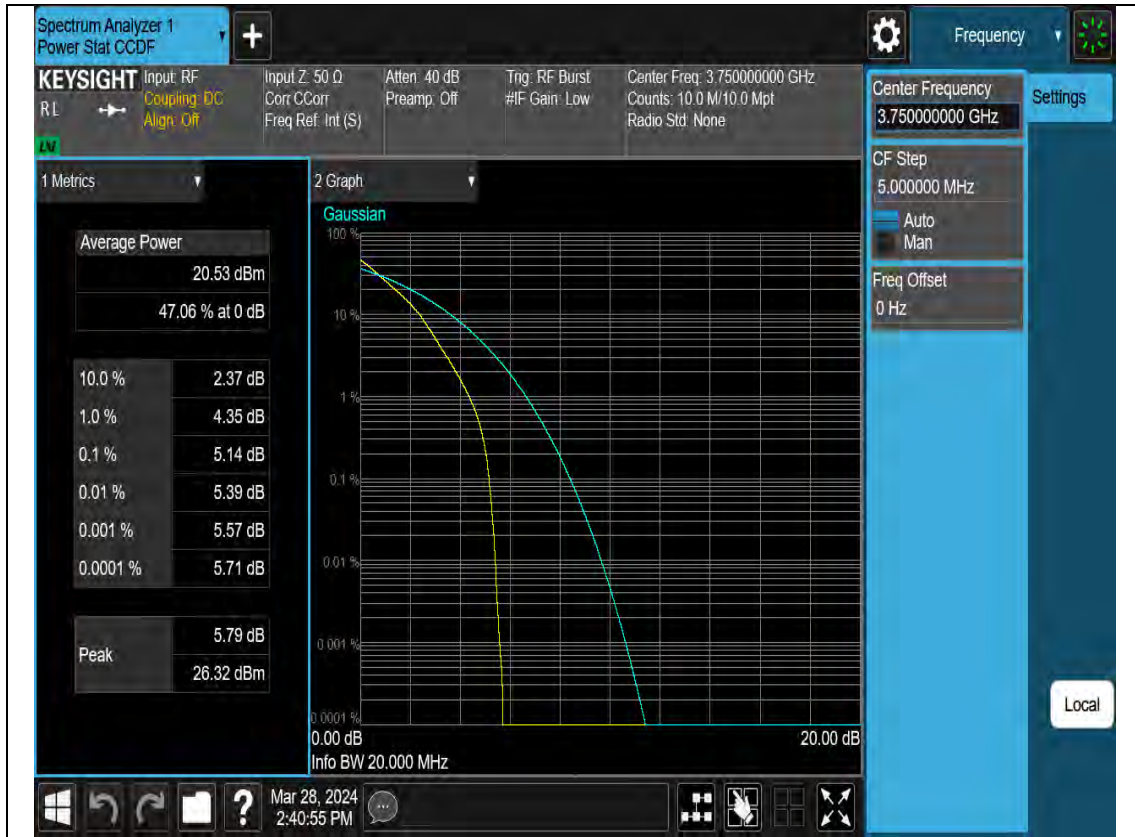
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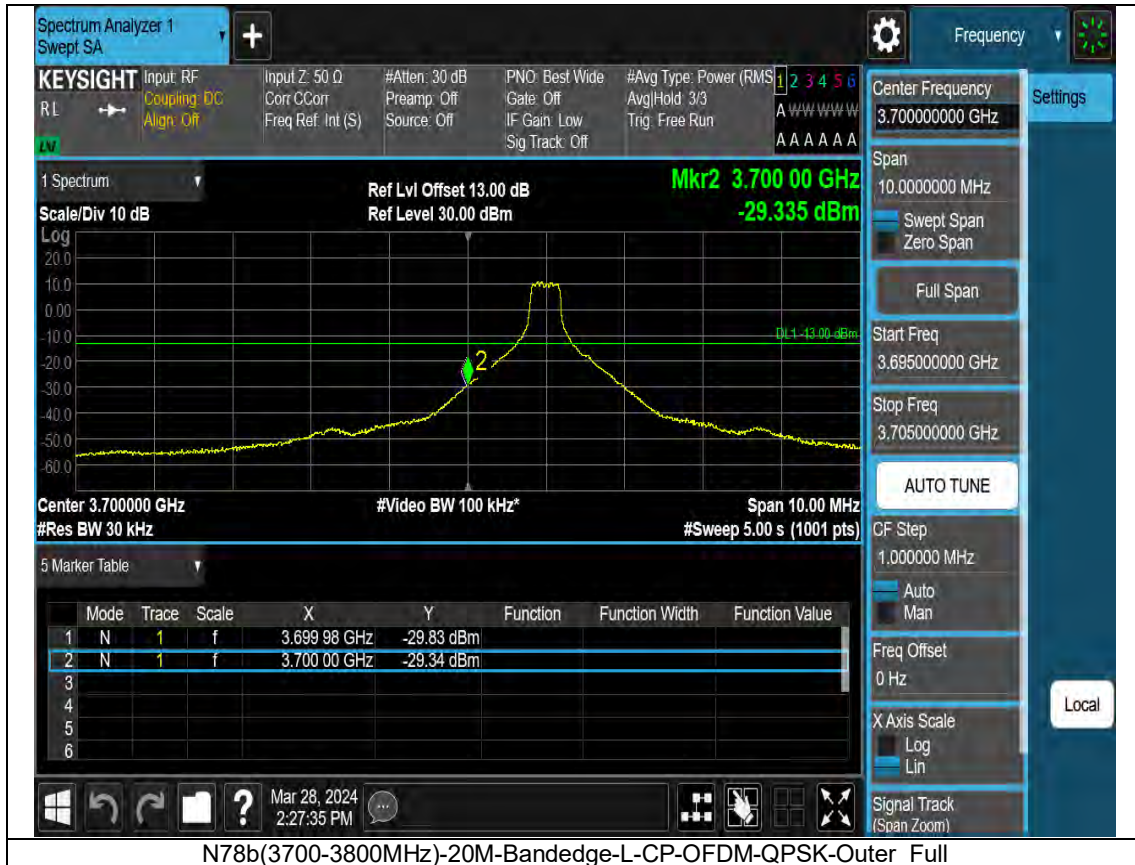
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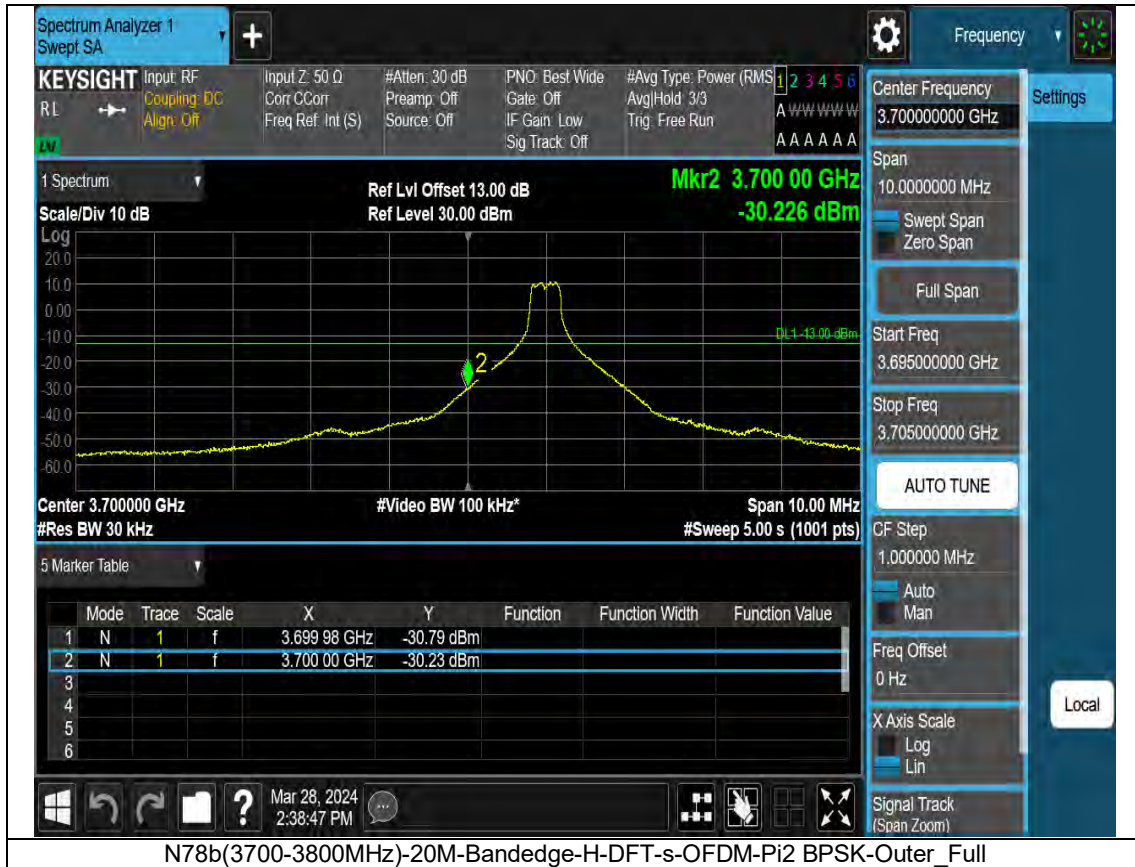
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N78b(3700-3800MHz)-20M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full



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N78b(3700-3800MHz)-20M-Bandedge-H-CP-OFDM-QPSK-Outer_Full



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N78b(3700-3800MHz)-20M-Bandedge-H-CP-OFDM-QPSK-1RB_MAX



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Conducted spurious emissions

test graph



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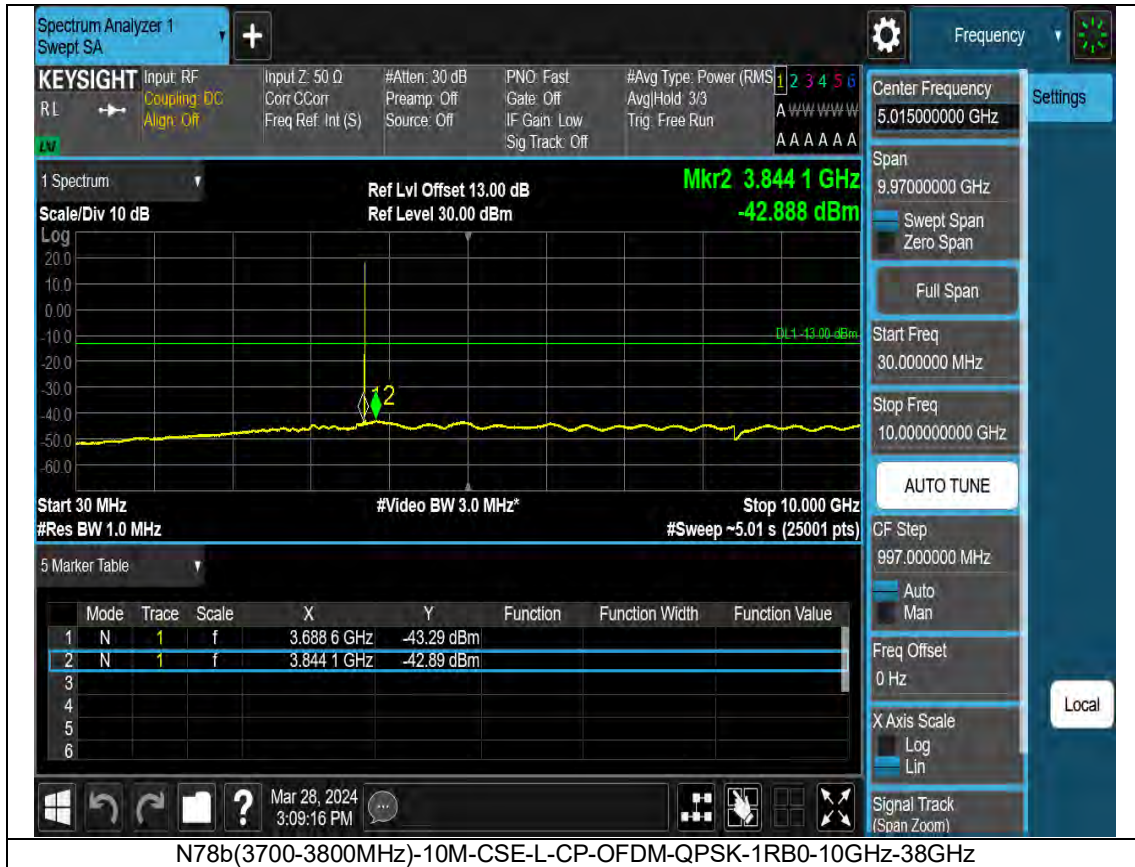
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N78b(3700-3800MHz)-10M-CSE-M-CP-OFDM-QPSK-1RB0-30MHz-10GHz



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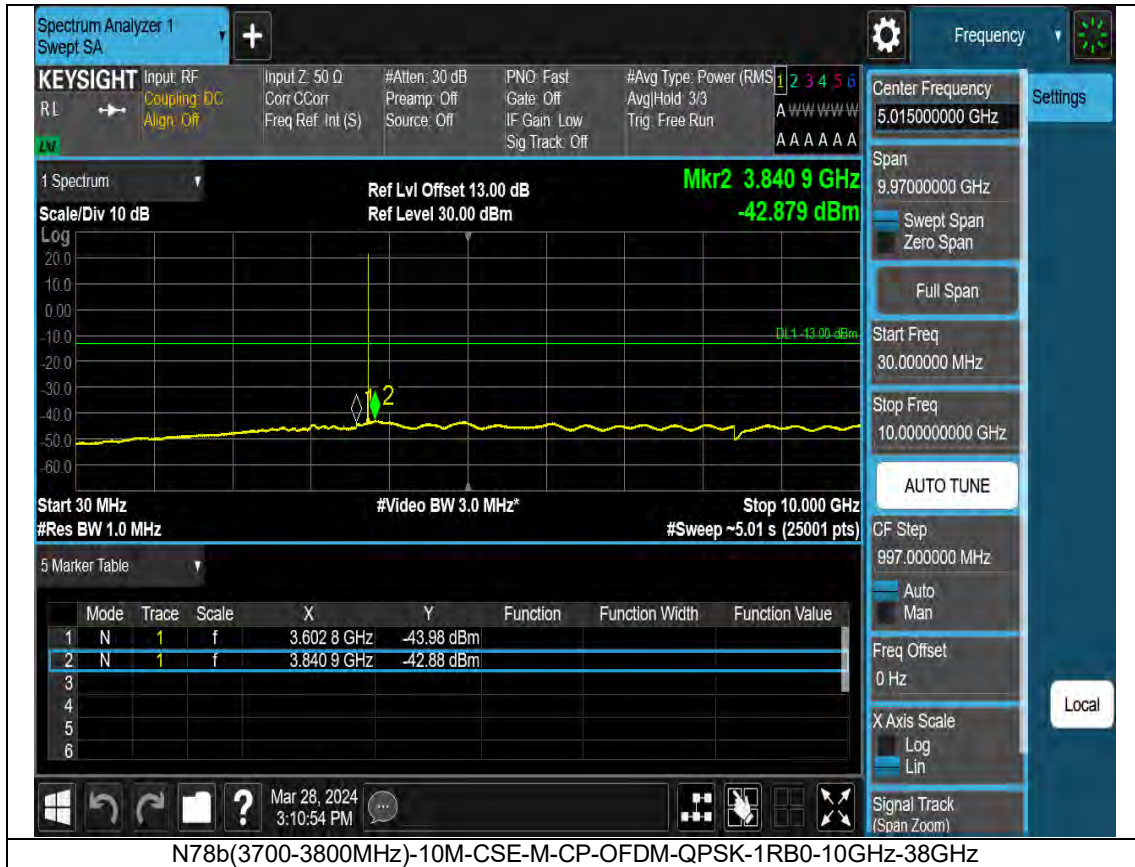
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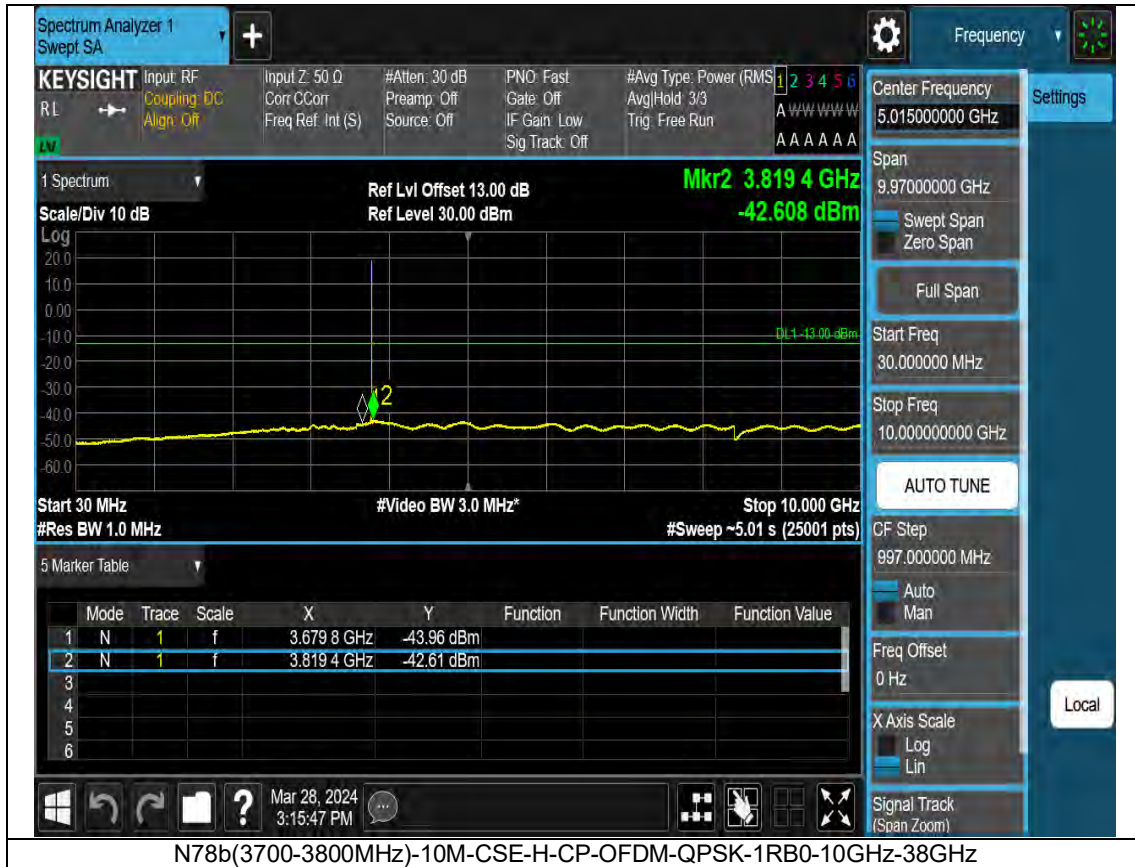
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N78b(3700-3800MHz)-15M-CSE-L-CP-OFDM-QPSK-1RB0-30MHz-10GHz



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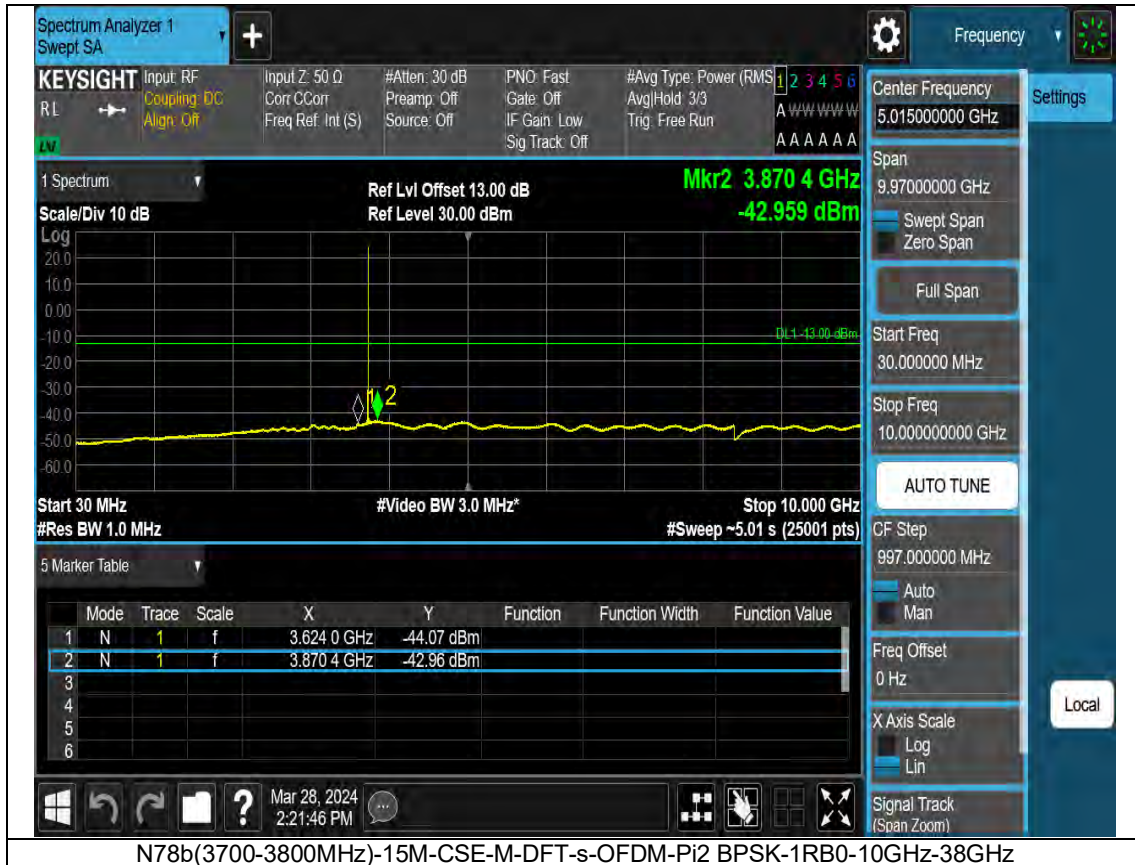
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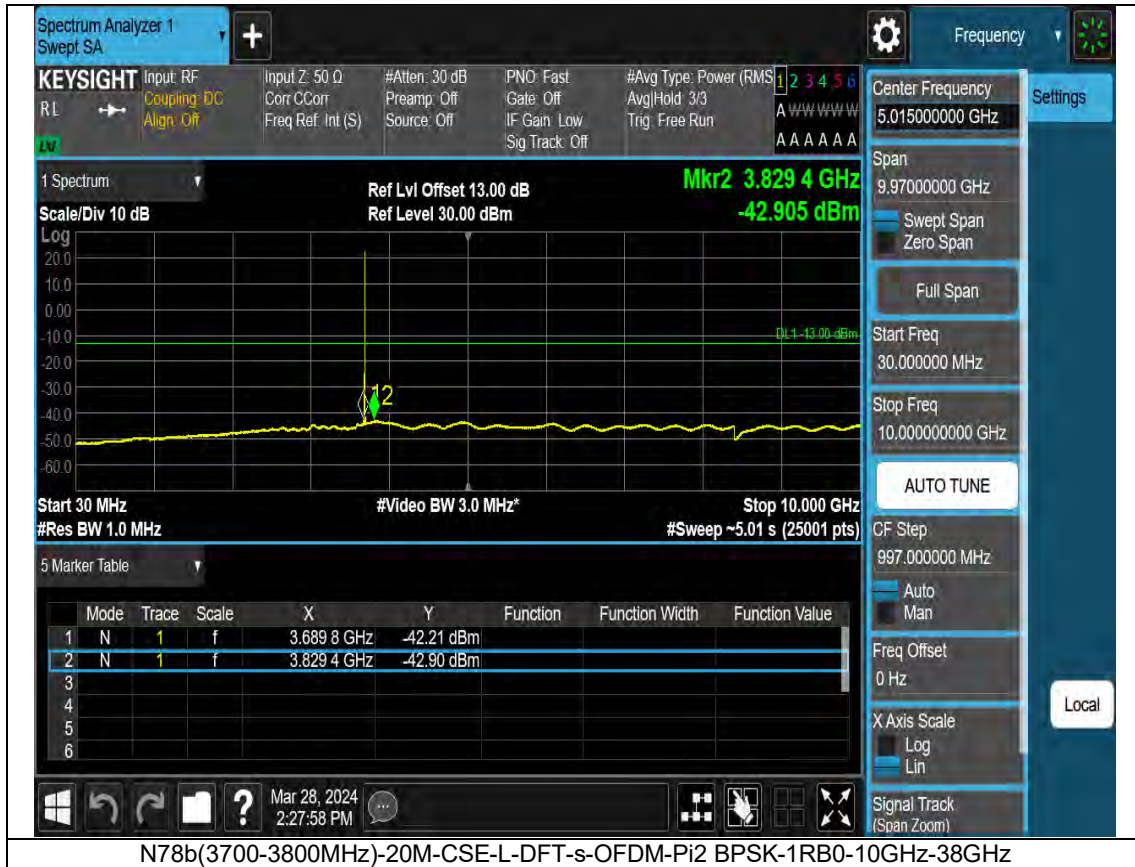
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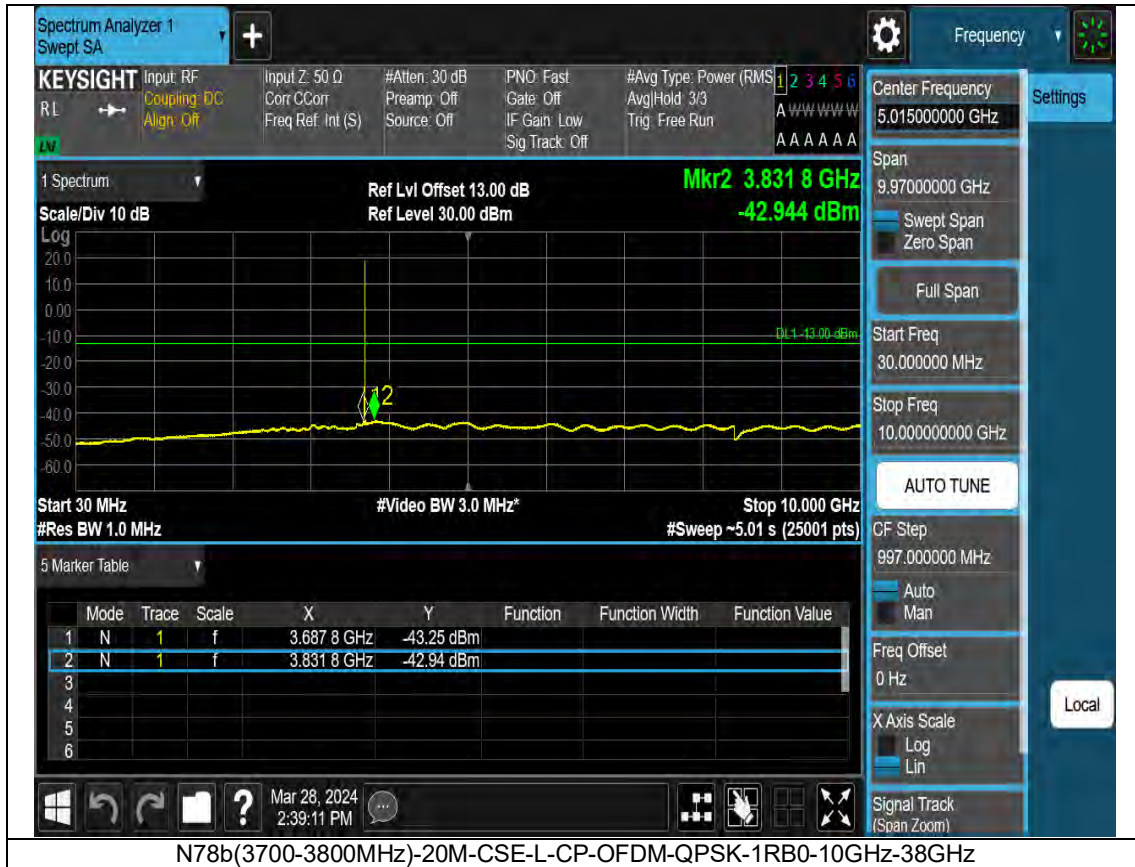
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N78b(3700-3800MHz)-20M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-38GHz



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N78b(3700-3800MHz)-20M-CSE-M-CP-OFDM-QPSK-1RB0-30MHz-10GHz



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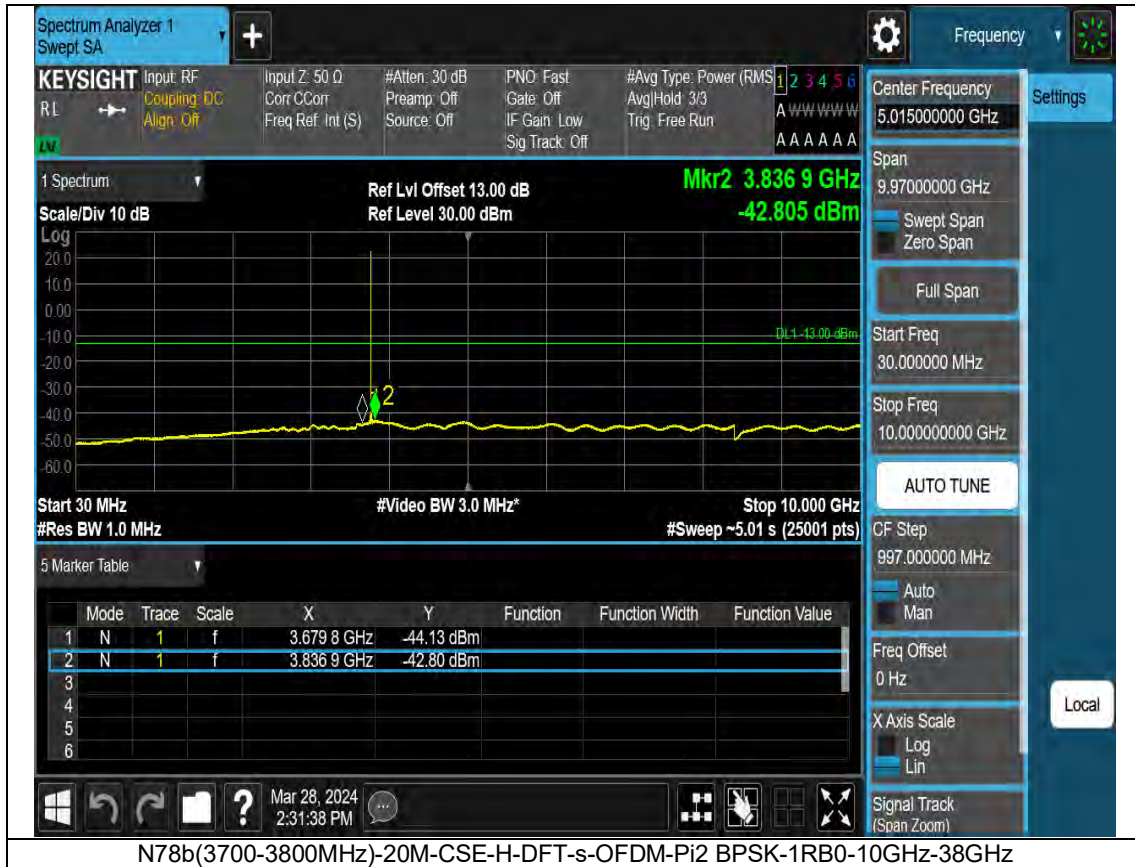
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N78b(3700-3800MHz)-20M-CSE-H-CP-OFDM-QPSK-1RB0-30MHz-10GHz



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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	3705MHz	Edge_Full_Left	21.89	21.76	30	Pass	-0.13
			Edge_Full_Right	21.83	21.7	30	Pass	-0.13
			Edge_1RB_Left	21.71	21.58	30	Pass	-0.13
			Edge_1RB_Right	21.59	21.46	30	Pass	-0.13
			Outer_Full	22.26	22.13	30	Pass	-0.13
			Inner_Full	22.35	22.22	30	Pass	-0.13
			Inner_1RB_Left	22.23	22.1	30	Pass	-0.13
			Inner_1RB_Right	22.19	22.06	30	Pass	-0.13
	DFT-s-OFDM QPSK		Edge_Full_Left	21.33	21.2	30	Pass	-0.13
			Edge_Full_Right	21.3	21.17	30	Pass	-0.13
			Edge_1RB_Left	21.22	21.09	30	Pass	-0.13
			Edge_1RB_Right	21.3	21.17	30	Pass	-0.13
			Outer_Full	21.64	21.51	30	Pass	-0.13
			Inner_Full	22.43	22.3	30	Pass	-0.13
			Inner_1RB_Left	22.26	22.13	30	Pass	-0.13
			Inner_1RB_Right	22.43	22.3	30	Pass	-0.13
	DFT-s-OFDM 16QAM		Edge_Full_Left	20.37	20.24	30	Pass	-0.13
			Edge_Full_Right	20.21	20.08	30	Pass	-0.13
			Edge_1RB_Left	20.11	19.98	30	Pass	-0.13
			Edge_1RB_Right	20.19	20.06	30	Pass	-0.13
			Outer_Full	20.61	20.48	30	Pass	-0.13
			Inner_Full	21.24	21.11	30	Pass	-0.13
			Inner_1RB_Left	21.13	21	30	Pass	-0.13
			Inner_1RB_Right	21.1	20.97	30	Pass	-0.13
	DFT-s-OFDM 64QAM		Edge_Full_Left	20.1	19.97	30	Pass	-0.13
			Edge_Full_Right	20.06	19.93	30	Pass	-0.13
			Edge_1RB_Left	19.92	19.79	30	Pass	-0.13
			Edge_1RB_Right	20.01	19.88	30	Pass	-0.13
			Outer_Full	20.17	20.04	30	Pass	-0.13



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CP-OFDM QPSK	Inner_Full	19.8	19.67	30	Pass	-0.13		
	Inner_1RB_Left	20.02	19.89	30	Pass	-0.13		
	Inner_1RB_Right	20.09	19.96	30	Pass	-0.13		
	Edge_Full_Left	19.52	19.39	30	Pass	-0.13		
	Edge_Full_Right	19.54	19.41	30	Pass	-0.13		
	Edge_1RB_Left	18.47	18.34	30	Pass	-0.13		
	Edge_1RB_Right	18.47	18.34	30	Pass	-0.13		
	Outer_Full	19.67	19.54	30	Pass	-0.13		
	Inner_Full	20.87	20.74	30	Pass	-0.13		
	Inner_1RB_Left	20.44	20.31	30	Pass	-0.13		
CP-OFDM 16QAM	Inner_1RB_Right	20.39	20.26	30	Pass	-0.13		
	Edge_Full_Left	19.06	18.93	30	Pass	-0.13		
	Edge_Full_Right	19.18	19.05	30	Pass	-0.13		
	Edge_1RB_Left	19.09	18.96	30	Pass	-0.13		
	Edge_1RB_Right	18.87	18.74	30	Pass	-0.13		
	Outer_Full	19.56	19.43	30	Pass	-0.13		
	Inner_Full	20.55	20.42	30	Pass	-0.13		
	Inner_1RB_Left	19.72	19.59	30	Pass	-0.13		
	Inner_1RB_Right	20.02	19.89	30	Pass	-0.13		
	Edge_Full_Left	18.88	18.75	30	Pass	-0.13		
CP-OFDM 64QAM	Edge_Full_Right	18.74	18.61	30	Pass	-0.13		
	Edge_1RB_Left	18.18	18.05	30	Pass	-0.13		
	Edge_1RB_Right	18.49	18.36	30	Pass	-0.13		
	Outer_Full	19.12	18.99	30	Pass	-0.13		
	Inner_Full	18.96	18.83	30	Pass	-0.13		
	Inner_1RB_Left	18.45	18.32	30	Pass	-0.13		
	Inner_1RB_Right	18.43	18.3	30	Pass	-0.13		
	DFT-s-OFDM PI/2 BPSK	3750MHZ	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	21.61	21.48	30	Pass	-0.13	
Edge_1RB_Right		21.46	21.33	30	Pass	-0.13		
Outer_Full		22.03	21.9	30	Pass	-0.13		
Inner_Full		22.26	22.13	30	Pass	-0.13		



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DFT-s-OFDM QPSK	Inner_1RB_Left	22.07	21.94	30	Pass	-0.13
	Inner_1RB_Right	21.99	21.86	30	Pass	-0.13
	Edge_Full_Left	21.05	20.92	30	Pass	-0.13
	Edge_Full_Right	21.15	21.02	30	Pass	-0.13
	Edge_1RB_Left	21.35	21.22	30	Pass	-0.13
	Edge_1RB_Right	21.21	21.08	30	Pass	-0.13
	Outer_Full	21.65	21.52	30	Pass	-0.13
	Inner_Full	22.35	22.22	30	Pass	-0.13
	Inner_1RB_Left	22.29	22.16	30	Pass	-0.13
DFT-s-OFDM 16QAM	Inner_1RB_Right	22.22	22.09	30	Pass	-0.13
	Edge_Full_Left	20.29	20.16	30	Pass	-0.13
	Edge_Full_Right	20.12	19.99	30	Pass	-0.13
	Edge_1RB_Left	20.05	19.92	30	Pass	-0.13
	Edge_1RB_Right	20.09	19.96	30	Pass	-0.13
	Outer_Full	20.6	20.47	30	Pass	-0.13
	Inner_Full	21.31	21.18	30	Pass	-0.13
	Inner_1RB_Left	20.97	20.84	30	Pass	-0.13
	Inner_1RB_Right	21.02	20.89	30	Pass	-0.13
DFT-s-OFDM 64QAM	Edge_Full_Left	20.04	19.91	30	Pass	-0.13
	Edge_Full_Right	19.88	19.75	30	Pass	-0.13
	Edge_1RB_Left	20.07	19.94	30	Pass	-0.13
	Edge_1RB_Right	20.03	19.9	30	Pass	-0.13
	Outer_Full	20.06	19.93	30	Pass	-0.13
	Inner_Full	19.84	19.71	30	Pass	-0.13
	Inner_1RB_Left	19.94	19.81	30	Pass	-0.13
	Inner_1RB_Right	20.01	19.88	30	Pass	-0.13
	Edge_Full_Left	19.69	19.56	30	Pass	-0.13
CP-OFDM QPSK	Edge_Full_Right	19.47	19.34	30	Pass	-0.13
	Edge_1RB_Left	18.85	18.72	30	Pass	-0.13
	Edge_1RB_Right	18.81	18.68	30	Pass	-0.13
	Outer_Full	19.54	19.41	30	Pass	-0.13
	Inner_Full	20.75	20.62	30	Pass	-0.13
	Inner_1RB_Left	20.17	20.04	30	Pass	-0.13



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CP-OFDM 16QAM	37925MHz	Inner_1RB_Right	20.66	20.53	30	Pass	-0.13
		Edge_Full_Left	19.15	19.02	30	Pass	-0.13
		Edge_Full_Right	19.29	19.16	30	Pass	-0.13
		Edge_1RB_Left	18.87	18.74	30	Pass	-0.13
		Edge_1RB_Right	18.7	18.57	30	Pass	-0.13
		Outer_Full	19.34	19.21	30	Pass	-0.13
		Inner_Full	20.37	20.24	30	Pass	-0.13
		Inner_1RB_Left	19.97	19.84	30	Pass	-0.13
CP-OFDM 64QAM	37925MHz	Inner_1RB_Right	20.02	19.89	30	Pass	-0.13
		Edge_Full_Left	18.76	18.63	30	Pass	-0.13
		Edge_Full_Right	18.81	18.68	30	Pass	-0.13
		Edge_1RB_Left	18.15	18.02	30	Pass	-0.13
		Edge_1RB_Right	18.37	18.24	30	Pass	-0.13
		Outer_Full	19.16	19.03	30	Pass	-0.13
		Inner_Full	18.67	18.54	30	Pass	-0.13
		Inner_1RB_Left	18.34	18.21	30	Pass	-0.13
DFT-s-OFDM PI/2 BPSK	37925MHz	Inner_1RB_Right	18.44	18.31	30	Pass	-0.13
		Edge_Full_Left	21.4	21.27	30	Pass	-0.13
		Edge_Full_Right	21.24	21.11	30	Pass	-0.13
		Edge_1RB_Left	21.21	21.08	30	Pass	-0.13
		Edge_1RB_Right	20.96	20.83	30	Pass	-0.13
		Outer_Full	21.63	21.5	30	Pass	-0.13
		Inner_Full	21.82	21.69	30	Pass	-0.13
		Inner_1RB_Left	21.64	21.51	30	Pass	-0.13
DFT-s-OFDM QPSK	37925MHz	Inner_1RB_Right	21.59	21.46	30	Pass	-0.13
		Edge_Full_Left	20.7	20.57	30	Pass	-0.13
		Edge_Full_Right	20.65	20.52	30	Pass	-0.13
		Edge_1RB_Left	20.74	20.61	30	Pass	-0.13
		Edge_1RB_Right	20.68	20.55	30	Pass	-0.13
		Outer_Full	21.15	21.02	30	Pass	-0.13
		Inner_Full	21.93	21.8	30	Pass	-0.13
		Inner_1RB_Left	21.74	21.61	30	Pass	-0.13
		Inner_1RB_Right	21.71	21.58	30	Pass	-0.13



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DFT-s-OFDM 16QAM	Edge_Full_Left	19.86	19.73	30	Pass	-0.13
	Edge_Full_Right	19.59	19.46	30	Pass	-0.13
	Edge_1RB_Left	19.71	19.58	30	Pass	-0.13
	Edge_1RB_Right	19.54	19.41	30	Pass	-0.13
	Outer_Full	20.1	19.97	30	Pass	-0.13
	Inner_Full	20.81	20.68	30	Pass	-0.13
	Inner_1RB_Left	20.79	20.66	30	Pass	-0.13
	Inner_1RB_Right	20.75	20.62	30	Pass	-0.13
DFT-s-OFDM 64QAM	Edge_Full_Left	19.44	19.31	30	Pass	-0.13
	Edge_Full_Right	19.28	19.15	30	Pass	-0.13
	Edge_1RB_Left	19.84	19.71	30	Pass	-0.13
	Edge_1RB_Right	19.67	19.54	30	Pass	-0.13
	Outer_Full	19.62	19.49	30	Pass	-0.13
	Inner_Full	19.35	19.22	30	Pass	-0.13
	Inner_1RB_Left	19.95	19.82	30	Pass	-0.13
	Inner_1RB_Right	19.7	19.57	30	Pass	-0.13
CP-OFDM QPSK	Edge_Full_Left	19.08	18.95	30	Pass	-0.13
	Edge_Full_Right	18.97	18.84	30	Pass	-0.13
	Edge_1RB_Left	18.21	18.08	30	Pass	-0.13
	Edge_1RB_Right	18.3	18.17	30	Pass	-0.13
	Outer_Full	19.21	19.08	30	Pass	-0.13
	Inner_Full	20.39	20.26	30	Pass	-0.13
	Inner_1RB_Left	19.64	19.51	30	Pass	-0.13
	Inner_1RB_Right	19.19	19.06	30	Pass	-0.13
CP-OFDM 16QAM	Edge_Full_Left	18.8	18.67	30	Pass	-0.13
	Edge_Full_Right	18.72	18.59	30	Pass	-0.13
	Edge_1RB_Left	18.23	18.1	30	Pass	-0.13
	Edge_1RB_Right	18.11	17.98	30	Pass	-0.13
	Outer_Full	18.98	18.85	30	Pass	-0.13
	Inner_Full	19.82	19.69	30	Pass	-0.13
	Inner_1RB_Left	19.32	19.19	30	Pass	-0.13
	Inner_1RB_Right	19.23	19.1	30	Pass	-0.13
CP-OFDM 64QAM	Edge_Full_Left	18.42	18.29	30	Pass	-0.13



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			Edge_Full_Right	18.03	17.9	30	Pass	-0.13
			Edge_1RB_Left	17.74	17.61	30	Pass	-0.13
			Edge_1RB_Right	17.59	17.46	30	Pass	-0.13
			Outer_Full	18.68	18.55	30	Pass	-0.13
			Inner_Full	18.39	18.26	30	Pass	-0.13
			Inner_1RB_Left	17.72	17.59	30	Pass	-0.13
			Inner_1RB_Right	17.9	17.77	30	Pass	-0.13
15MHz	DFT-s-OFDM PI/2 BPSK	3707.52MHz	Edge_Full_Left	21.72	21.59	30	Pass	-0.13
			Edge_Full_Right	21.87	21.74	30	Pass	-0.13
			Edge_1RB_Left	21.77	21.64	30	Pass	-0.13
			Edge_1RB_Right	21.72	21.59	30	Pass	-0.13
			Outer_Full	21.96	21.83	30	Pass	-0.13
			Inner_Full	22.39	22.26	30	Pass	-0.13
			Inner_1RB_Left	22.3	22.17	30	Pass	-0.13
	Inner_1RB_Right		22.4	22.27	30	Pass	-0.13	
	DFT-s-OFDM QPSK		Edge_Full_Left	21.32	21.19	30	Pass	-0.13
			Edge_Full_Right	21.24	21.11	30	Pass	-0.13
			Edge_1RB_Left	20.83	20.7	30	Pass	-0.13
			Edge_1RB_Right	20.88	20.75	30	Pass	-0.13
			Outer_Full	21.56	21.43	30	Pass	-0.13
			Inner_Full	22.34	22.21	30	Pass	-0.13
			Inner_1RB_Left	22.03	21.9	30	Pass	-0.13
	Inner_1RB_Right		22.13	22	30	Pass	-0.13	
	DFT-s-OFDM 16QAM		Edge_Full_Left	20.08	19.95	30	Pass	-0.13
			Edge_Full_Right	20.14	20.01	30	Pass	-0.13
			Edge_1RB_Left	20.42	20.29	30	Pass	-0.13
			Edge_1RB_Right	20.51	20.38	30	Pass	-0.13
			Outer_Full	20.51	20.38	30	Pass	-0.13
			Inner_Full	21.25	21.12	30	Pass	-0.13
			Inner_1RB_Left	21.38	21.25	30	Pass	-0.13
	Inner_1RB_Right		21.48	21.35	30	Pass	-0.13	
DFT-s-OFDM 64QAM	Edge_Full_Left	19.88	19.75	30	Pass	-0.13		
	Edge_Full_Right	20.05	19.92	30	Pass	-0.13		



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CP-OFDM QPSK	Edge_1RB_Left	19.33	19.2	30	Pass	-0.13	
	Edge_1RB_Right	19.41	19.28	30	Pass	-0.13	
	Outer_Full	20.15	20.02	30	Pass	-0.13	
	Inner_Full	19.85	19.72	30	Pass	-0.13	
	Inner_1RB_Left	19.39	19.26	30	Pass	-0.13	
	Inner_1RB_Right	19.41	19.28	30	Pass	-0.13	
	Edge_Full_Left	19.4	19.27	30	Pass	-0.13	
	Edge_Full_Right	19.49	19.36	30	Pass	-0.13	
	Edge_1RB_Left	19.25	19.12	30	Pass	-0.13	
	Edge_1RB_Right	19.15	19.02	30	Pass	-0.13	
	Outer_Full	19.56	19.43	30	Pass	-0.13	
	Inner_Full	20.78	20.65	30	Pass	-0.13	
CP-OFDM 16QAM	Inner_1RB_Left	20.55	20.42	30	Pass	-0.13	
	Inner_1RB_Right	20.81	20.68	30	Pass	-0.13	
	Edge_Full_Left	19.02	18.89	30	Pass	-0.13	
	Edge_Full_Right	19.15	19.02	30	Pass	-0.13	
	Edge_1RB_Left	18.7	18.57	30	Pass	-0.13	
	Edge_1RB_Right	18.73	18.6	30	Pass	-0.13	
	Outer_Full	19.35	19.22	30	Pass	-0.13	
	Inner_Full	20.45	20.32	30	Pass	-0.13	
	Inner_1RB_Left	20.05	19.92	30	Pass	-0.13	
	Inner_1RB_Right	20.09	19.96	30	Pass	-0.13	
	CP-OFDM 64QAM	Edge_Full_Left	18.63	18.5	30	Pass	-0.13
		Edge_Full_Right	18.86	18.73	30	Pass	-0.13
Edge_1RB_Left		19.11	18.98	30	Pass	-0.13	
Edge_1RB_Right		19.08	18.95	30	Pass	-0.13	
Outer_Full		19.11	18.98	30	Pass	-0.13	
Inner_Full		18.82	18.69	30	Pass	-0.13	
Inner_1RB_Left		18.98	18.85	30	Pass	-0.13	
Inner_1RB_Right		19.14	19.01	30	Pass	-0.13	
DFT-s-OFDM PI/2 BPSK 3750MHZ		Edge_Full_Left	21.91	21.78	30	Pass	-0.13
		Edge_Full_Right	21.75	21.62	30	Pass	-0.13
		Edge_1RB_Left	21.76	21.63	30	Pass	-0.13



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DFT-s-OFDM QPSK	Edge_1RB_Right	21.56	21.43	30	Pass	-0.13	
	Outer_Full	22.07	21.94	30	Pass	-0.13	
	Inner_Full	22.4	22.27	30	Pass	-0.13	
	Inner_1RB_Left	22.41	22.28	30	Pass	-0.13	
	Inner_1RB_Right	22.25	22.12	30	Pass	-0.13	
	Edge_Full_Left	21.11	20.98	30	Pass	-0.13	
	Edge_Full_Right	21.16	21.03	30	Pass	-0.13	
	Edge_1RB_Left	21.11	20.98	30	Pass	-0.13	
	Edge_1RB_Right	20.84	20.71	30	Pass	-0.13	
	Outer_Full	21.57	21.44	30	Pass	-0.13	
	Inner_Full	22.19	22.06	30	Pass	-0.13	
	Inner_1RB_Left	21.93	21.8	30	Pass	-0.13	
DFT-s-OFDM 16QAM	Inner_1RB_Right	21.69	21.56	30	Pass	-0.13	
	Edge_Full_Left	20.2	20.07	30	Pass	-0.13	
	Edge_Full_Right	19.92	19.79	30	Pass	-0.13	
	Edge_1RB_Left	20.2	20.07	30	Pass	-0.13	
	Edge_1RB_Right	19.99	19.86	30	Pass	-0.13	
	Outer_Full	20.35	20.22	30	Pass	-0.13	
	Inner_Full	21.14	21.01	30	Pass	-0.13	
	Inner_1RB_Left	21.55	21.42	30	Pass	-0.13	
	Inner_1RB_Right	21.4	21.27	30	Pass	-0.13	
	Edge_Full_Left	19.84	19.71	30	Pass	-0.13	
	Edge_Full_Right	19.85	19.72	30	Pass	-0.13	
	DFT-s-OFDM 64QAM	Edge_1RB_Left	19.62	19.49	30	Pass	-0.13
Edge_1RB_Right		19.44	19.31	30	Pass	-0.13	
Outer_Full		19.85	19.72	30	Pass	-0.13	
Inner_Full		19.75	19.62	30	Pass	-0.13	
Inner_1RB_Left		19.64	19.51	30	Pass	-0.13	
Inner_1RB_Right		19.45	19.32	30	Pass	-0.13	
Edge_Full_Left		19.1	18.97	30	Pass	-0.13	
Edge_Full_Right		19.04	18.91	30	Pass	-0.13	
Edge_1RB_Left		19.75	19.62	30	Pass	-0.13	
CP-OFDM QPSK		Edge_1RB_Right	19.74	19.61	30	Pass	-0.13



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CP-OFDM 16QAM		Outer_Full	19.6	19.47	30	Pass	-0.13		
		Inner_Full	20.71	20.58	30	Pass	-0.13		
		Inner_1RB_Left	21.08	20.95	30	Pass	-0.13		
		Inner_1RB_Right	20.71	20.58	30	Pass	-0.13		
		Edge_Full_Left	18.91	18.78	30	Pass	-0.13		
		Edge_Full_Right	18.59	18.46	30	Pass	-0.13		
		Edge_1RB_Left	19.15	19.02	30	Pass	-0.13		
		Edge_1RB_Right	18.91	18.78	30	Pass	-0.13		
		Outer_Full	19.4	19.27	30	Pass	-0.13		
		Inner_Full	20.2	20.07	30	Pass	-0.13		
		Inner_1RB_Left	20.12	19.99	30	Pass	-0.13		
		Inner_1RB_Right	19.96	19.83	30	Pass	-0.13		
CP-OFDM 64QAM		Edge_Full_Left	18.56	18.43	30	Pass	-0.13		
		Edge_Full_Right	18.15	18.02	30	Pass	-0.13		
		Edge_1RB_Left	19.2	19.07	30	Pass	-0.13		
		Edge_1RB_Right	18.95	18.82	30	Pass	-0.13		
		Outer_Full	19.03	18.9	30	Pass	-0.13		
		Inner_Full	18.74	18.61	30	Pass	-0.13		
		Inner_1RB_Left	19.12	18.99	30	Pass	-0.13		
		Inner_1RB_Right	18.9	18.77	30	Pass	-0.13		
		DFT-s-OFDM PI/2 BPSK	3792.48MHz	Edge_Full_Left	21.27	21.14	30	Pass	-0.13
				Edge_Full_Right	21.13	21	30	Pass	-0.13
				Edge_1RB_Left	21.3	21.17	30	Pass	-0.13
				Edge_1RB_Right	20.95	20.82	30	Pass	-0.13
Outer_Full	21.56			21.43	30	Pass	-0.13		
Inner_Full	21.73			21.6	30	Pass	-0.13		
Inner_1RB_Left	21.78			21.65	30	Pass	-0.13		
Inner_1RB_Right	21.58			21.45	30	Pass	-0.13		
DFT-s-OFDM QPSK				Edge_Full_Left	20.72	20.59	30	Pass	-0.13
				Edge_Full_Right	20.63	20.5	30	Pass	-0.13
				Edge_1RB_Left	20.26	20.13	30	Pass	-0.13
				Edge_1RB_Right	20.14	20.01	30	Pass	-0.13
		Outer_Full	20.84	20.71	30	Pass	-0.13		



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DFT-s-OFDM 16QAM	Inner_Full	21.82	21.69	30	Pass	-0.13
	Inner_1RB_Left	21.29	21.16	30	Pass	-0.13
	Inner_1RB_Right	21.19	21.06	30	Pass	-0.13
	Edge_Full_Left	19.55	19.42	30	Pass	-0.13
	Edge_Full_Right	19.45	19.32	30	Pass	-0.13
	Edge_1RB_Left	19.66	19.53	30	Pass	-0.13
	Edge_1RB_Right	19.44	19.31	30	Pass	-0.13
	Outer_Full	20	19.87	30	Pass	-0.13
	Inner_Full	20.73	20.6	30	Pass	-0.13
DFT-s-OFDM 64QAM	Inner_1RB_Left	20.67	20.54	30	Pass	-0.13
	Inner_1RB_Right	20.45	20.32	30	Pass	-0.13
	Edge_Full_Left	19.32	19.19	30	Pass	-0.13
	Edge_Full_Right	19.38	19.25	30	Pass	-0.13
	Edge_1RB_Left	19.13	19	30	Pass	-0.13
	Edge_1RB_Right	18.94	18.81	30	Pass	-0.13
	Outer_Full	19.29	19.16	30	Pass	-0.13
	Inner_Full	19.33	19.2	30	Pass	-0.13
	Inner_1RB_Left	19.14	19.01	30	Pass	-0.13
CP-OFDM QPSK	Inner_1RB_Right	19.07	18.94	30	Pass	-0.13
	Edge_Full_Left	18.82	18.69	30	Pass	-0.13
	Edge_Full_Right	18.53	18.4	30	Pass	-0.13
	Edge_1RB_Left	19.12	18.99	30	Pass	-0.13
	Edge_1RB_Right	19.17	19.04	30	Pass	-0.13
	Outer_Full	19.15	19.02	30	Pass	-0.13
	Inner_Full	20.21	20.08	30	Pass	-0.13
	Inner_1RB_Left	20.53	20.4	30	Pass	-0.13
	Inner_1RB_Right	20.15	20.02	30	Pass	-0.13
CP-OFDM 16QAM	Edge_Full_Left	18.51	18.38	30	Pass	-0.13
	Edge_Full_Right	18.02	17.89	30	Pass	-0.13
	Edge_1RB_Left	18.54	18.41	30	Pass	-0.13
	Edge_1RB_Right	18.39	18.26	30	Pass	-0.13
	Outer_Full	18.88	18.75	30	Pass	-0.13
	Inner_Full	19.88	19.75	30	Pass	-0.13



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CP-OFDM 64QAM	Inner_1RB_Left	19.95	19.82	30	Pass	-0.13	
	Inner_1RB_Right	19.34	19.21	30	Pass	-0.13	
	Edge_Full_Left	18.28	18.15	30	Pass	-0.13	
	Edge_Full_Right	17.76	17.63	30	Pass	-0.13	
	Edge_1RB_Left	18.53	18.4	30	Pass	-0.13	
	Edge_1RB_Right	18.27	18.14	30	Pass	-0.13	
	Outer_Full	18.48	18.35	30	Pass	-0.13	
	Inner_Full	18.13	18	30	Pass	-0.13	
	Inner_1RB_Left	18.68	18.55	30	Pass	-0.13	
	Inner_1RB_Right	18.32	18.19	30	Pass	-0.13	
DFT-s-OFDM PI/2 BPSK	Edge_Full_Left	21.82	21.69	30	Pass	-0.13	
	Edge_Full_Right	21.88	21.75	30	Pass	-0.13	
	Edge_1RB_Left	21.9	21.77	30	Pass	-0.13	
	Edge_1RB_Right	22.04	21.91	30	Pass	-0.13	
	Outer_Full	22.25	22.12	30	Pass	-0.13	
	Inner_Full	22.47	22.34	30	Pass	-0.13	
	Inner_1RB_Left	22.31	22.18	30	Pass	-0.13	
	Inner_1RB_Right	22.36	22.23	30	Pass	-0.13	
	DFT-s-OFDM QPSK	Edge_Full_Left	21.27	21.14	30	Pass	-0.13
		Edge_Full_Right	21.46	21.33	30	Pass	-0.13
Edge_1RB_Left		21.39	21.26	30	Pass	-0.13	
Edge_1RB_Right		21.51	21.38	30	Pass	-0.13	
Outer_Full		21.6	21.47	30	Pass	-0.13	
Inner_Full		22.43	22.3	30	Pass	-0.13	
Inner_1RB_Left		22.18	22.05	30	Pass	-0.13	
Inner_1RB_Right		22.37	22.24	30	Pass	-0.13	
DFT-s-OFDM 16QAM		Edge_Full_Left	20.4	20.27	30	Pass	-0.13
		Edge_Full_Right	20.44	20.31	30	Pass	-0.13
	Edge_1RB_Left	20.31	20.18	30	Pass	-0.13	
	Edge_1RB_Right	20.36	20.23	30	Pass	-0.13	
	Outer_Full	20.7	20.57	30	Pass	-0.13	
	Inner_Full	21.52	21.39	30	Pass	-0.13	
	Inner_1RB_Left	21.18	21.05	30	Pass	-0.13	



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DFT-s-OFDM 64QAM	Inner_1RB_Right	21.22	21.09	30	Pass	-0.13
	Edge_Full_Left	19.87	19.74	30	Pass	-0.13
	Edge_Full_Right	20	19.87	30	Pass	-0.13
	Edge_1RB_Left	19.76	19.63	30	Pass	-0.13
	Edge_1RB_Right	19.92	19.79	30	Pass	-0.13
	Outer_Full	20.3	20.17	30	Pass	-0.13
	Inner_Full	20.04	19.91	30	Pass	-0.13
	Inner_1RB_Left	19.75	19.62	30	Pass	-0.13
CP-OFDM QPSK	Inner_1RB_Right	19.83	19.7	30	Pass	-0.13
	Edge_Full_Left	19.11	18.98	30	Pass	-0.13
	Edge_Full_Right	19.25	19.12	30	Pass	-0.13
	Edge_1RB_Left	19.31	19.18	30	Pass	-0.13
	Edge_1RB_Right	19.21	19.08	30	Pass	-0.13
	Outer_Full	19.68	19.55	30	Pass	-0.13
	Inner_Full	21.01	20.88	30	Pass	-0.13
	Inner_1RB_Left	20.97	20.84	30	Pass	-0.13
CP-OFDM 16QAM	Inner_1RB_Right	21.15	21.02	30	Pass	-0.13
	Edge_Full_Left	19.44	19.31	30	Pass	-0.13
	Edge_Full_Right	19.67	19.54	30	Pass	-0.13
	Edge_1RB_Left	19.07	18.94	30	Pass	-0.13
	Edge_1RB_Right	19.27	19.14	30	Pass	-0.13
	Outer_Full	19.7	19.57	30	Pass	-0.13
	Inner_Full	20.39	20.26	30	Pass	-0.13
	Inner_1RB_Left	20.45	20.32	30	Pass	-0.13
CP-OFDM 64QAM	Inner_1RB_Right	20.43	20.3	30	Pass	-0.13
	Edge_Full_Left	18.69	18.56	30	Pass	-0.13
	Edge_Full_Right	18.94	18.81	30	Pass	-0.13
	Edge_1RB_Left	18.91	18.78	30	Pass	-0.13
	Edge_1RB_Right	18.87	18.74	30	Pass	-0.13
	Outer_Full	19.27	19.14	30	Pass	-0.13
	Inner_Full	19.05	18.92	30	Pass	-0.13
	Inner_1RB_Left	18.71	18.58	30	Pass	-0.13
Inner_1RB_Right	19.09	18.96	30	Pass	-0.13	



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DFT-s-OFDM PI/2 BPSK	3750MHz	Edge_Full_Left	21.9	21.77	30	Pass	-0.13
		Edge_Full_Right	21.67	21.54	30	Pass	-0.13
		Edge_1RB_Left	21.9	21.77	30	Pass	-0.13
		Edge_1RB_Right	21.61	21.48	30	Pass	-0.13
		Outer_Full	22.24	22.11	30	Pass	-0.13
		Inner_Full	22.49	22.36	30	Pass	-0.13
		Inner_1RB_Left	22.36	22.23	30	Pass	-0.13
		Inner_1RB_Right	22.1	21.97	30	Pass	-0.13
DFT-s-OFDM QPSK	3750MHz	Edge_Full_Left	21.32	21.19	30	Pass	-0.13
		Edge_Full_Right	21.14	21.01	30	Pass	-0.13
		Edge_1RB_Left	21.29	21.16	30	Pass	-0.13
		Edge_1RB_Right	21.2	21.07	30	Pass	-0.13
		Outer_Full	21.56	21.43	30	Pass	-0.13
		Inner_Full	22.27	22.14	30	Pass	-0.13
		Inner_1RB_Left	22.2	22.07	30	Pass	-0.13
		Inner_1RB_Right	22.03	21.9	30	Pass	-0.13
DFT-s-OFDM 16QAM	3750MHz	Edge_Full_Left	20.35	20.22	30	Pass	-0.13
		Edge_Full_Right	20.26	20.13	30	Pass	-0.13
		Edge_1RB_Left	20.09	19.96	30	Pass	-0.13
		Edge_1RB_Right	19.93	19.8	30	Pass	-0.13
		Outer_Full	20.52	20.39	30	Pass	-0.13
		Inner_Full	21.41	21.28	30	Pass	-0.13
		Inner_1RB_Left	21.06	20.93	30	Pass	-0.13
		Inner_1RB_Right	20.91	20.78	30	Pass	-0.13
DFT-s-OFDM 64QAM	3750MHz	Edge_Full_Left	19.86	19.73	30	Pass	-0.13
		Edge_Full_Right	19.92	19.79	30	Pass	-0.13
		Edge_1RB_Left	19.81	19.68	30	Pass	-0.13
		Edge_1RB_Right	19.66	19.53	30	Pass	-0.13
		Outer_Full	20.02	19.89	30	Pass	-0.13
		Inner_Full	19.77	19.64	30	Pass	-0.13
		Inner_1RB_Left	19.81	19.68	30	Pass	-0.13
		Inner_1RB_Right	19.88	19.75	30	Pass	-0.13
CP-OFDM QPSK		Edge_Full_Left	19.45	19.32	30	Pass	-0.13



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		Edge_Full_Right	19.39	19.26	30	Pass	-0.13
		Edge_1RB_Left	19.52	19.39	30	Pass	-0.13
		Edge_1RB_Right	19.37	19.24	30	Pass	-0.13
		Outer_Full	19.54	19.41	30	Pass	-0.13
		Inner_Full	20.91	20.78	30	Pass	-0.13
		Inner_1RB_Left	20.97	20.84	30	Pass	-0.13
		Inner_1RB_Right	20.87	20.74	30	Pass	-0.13
CP-OFDM 16QAM		Edge_Full_Left	19.51	19.38	30	Pass	-0.13
		Edge_Full_Right	19.27	19.14	30	Pass	-0.13
		Edge_1RB_Left	19.66	19.53	30	Pass	-0.13
		Edge_1RB_Right	19.45	19.32	30	Pass	-0.13
		Outer_Full	19.68	19.55	30	Pass	-0.13
		Inner_Full	20.46	20.33	30	Pass	-0.13
CP-OFDM 64QAM		Inner_1RB_Left	20.71	20.58	30	Pass	-0.13
		Inner_1RB_Right	20.49	20.36	30	Pass	-0.13
		Edge_Full_Left	19.04	18.91	30	Pass	-0.13
		Edge_Full_Right	18.56	18.43	30	Pass	-0.13
		Edge_1RB_Left	18.62	18.49	30	Pass	-0.13
		Edge_1RB_Right	18.65	18.52	30	Pass	-0.13
DFT-s-OFDM PI/2 BPSK	3789.99MHz	Outer_Full	19.16	19.03	30	Pass	-0.13
		Inner_Full	19.03	18.9	30	Pass	-0.13
		Inner_1RB_Left	18.66	18.53	30	Pass	-0.13
		Inner_1RB_Right	18.66	18.53	30	Pass	-0.13
		Edge_Full_Left	21.41	21.28	30	Pass	-0.13
		Edge_Full_Right	21.16	21.03	30	Pass	-0.13
DFT-s-OFDM QPSK		Edge_1RB_Left	21.44	21.31	30	Pass	-0.13
		Edge_1RB_Right	21.19	21.06	30	Pass	-0.13
		Outer_Full	21.59	21.46	30	Pass	-0.13
		Inner_Full	21.94	21.81	30	Pass	-0.13
		Inner_1RB_Left	21.75	21.62	30	Pass	-0.13
		Inner_1RB_Right	21.58	21.45	30	Pass	-0.13
		Edge_Full_Left	20.96	20.83	30	Pass	-0.13
		Edge_Full_Right	20.75	20.62	30	Pass	-0.13



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DFT-s-OFDM 16QAM	Edge_1RB_Left	20.62	20.49	30	Pass	-0.13	
	Edge_1RB_Right	20.56	20.43	30	Pass	-0.13	
	Outer_Full	21.16	21.03	30	Pass	-0.13	
	Inner_Full	21.86	21.73	30	Pass	-0.13	
	Inner_1RB_Left	21.57	21.44	30	Pass	-0.13	
	Inner_1RB_Right	21.64	21.51	30	Pass	-0.13	
	Edge_Full_Left	19.87	19.74	30	Pass	-0.13	
	Edge_Full_Right	19.57	19.44	30	Pass	-0.13	
	Edge_1RB_Left	19.52	19.39	30	Pass	-0.13	
	Edge_1RB_Right	19.27	19.14	30	Pass	-0.13	
	Outer_Full	20.17	20.04	30	Pass	-0.13	
	Inner_Full	21.03	20.9	30	Pass	-0.13	
DFT-s-OFDM 64QAM	Inner_1RB_Left	20.54	20.41	30	Pass	-0.13	
	Inner_1RB_Right	20.34	20.21	30	Pass	-0.13	
	Edge_Full_Left	19.26	19.13	30	Pass	-0.13	
	Edge_Full_Right	19.15	19.02	30	Pass	-0.13	
	Edge_1RB_Left	19.2	19.07	30	Pass	-0.13	
	Edge_1RB_Right	19.19	19.06	30	Pass	-0.13	
	Outer_Full	19.54	19.41	30	Pass	-0.13	
	Inner_Full	19.38	19.25	30	Pass	-0.13	
	Inner_1RB_Left	19.3	19.17	30	Pass	-0.13	
	Inner_1RB_Right	19.27	19.14	30	Pass	-0.13	
	CP-OFDM QPSK	Edge_Full_Left	18.83	18.7	30	Pass	-0.13
		Edge_Full_Right	18.78	18.65	30	Pass	-0.13
Edge_1RB_Left		19.05	18.92	30	Pass	-0.13	
Edge_1RB_Right		19.01	18.88	30	Pass	-0.13	
Outer_Full		19.06	18.93	30	Pass	-0.13	
Inner_Full		20.48	20.35	30	Pass	-0.13	
Inner_1RB_Left		20.54	20.41	30	Pass	-0.13	
Inner_1RB_Right		20.24	20.11	30	Pass	-0.13	
CP-OFDM 16QAM		Edge_Full_Left	18.72	18.59	30	Pass	-0.13
		Edge_Full_Right	18.56	18.43	30	Pass	-0.13
		Edge_1RB_Left	19.06	18.93	30	Pass	-0.13



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CP-OFDM 64QAM	Edge_1RB_Right	19.02	18.89	30	Pass	-0.13
	Outer_Full	19.03	18.9	30	Pass	-0.13
	Inner_Full	19.9	19.77	30	Pass	-0.13
	Inner_1RB_Left	20.07	19.94	30	Pass	-0.13
	Inner_1RB_Right	19.82	19.69	30	Pass	-0.13
	Edge_Full_Left	18.32	18.19	30	Pass	-0.13
	Edge_Full_Right	18.13	18	30	Pass	-0.13
	Edge_1RB_Left	18.42	18.29	30	Pass	-0.13
	Edge_1RB_Right	18.02	17.89	30	Pass	-0.13
	Outer_Full	18.64	18.51	30	Pass	-0.13
	Inner_Full	18.43	18.3	30	Pass	-0.13
	Inner_1RB_Left	18.1	17.97	30	Pass	-0.13
	Inner_1RB_Right	17.93	17.8	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	3750	Outer_Full	20	LV	8.45	0.0045	Pass
					HV	6.11	0.0033	Pass
				-30	NV	2.86	0.0015	Pass
				-20	NV	3.21	0.0017	Pass
				-10	NV	6.33	0.0034	Pass
				0	NV	-4.53	-0.0024	Pass
				10	NV	7.34	0.0039	Pass
				20	NV	-9.41	-0.0050	Pass
				30	NV	4.69	0.0025	Pass
				40	NV	-5.39	-0.0029	Pass
	50			NV	2.91	0.0015	Pass	
	CP-OFDM QPSK			20	LV	4.2	0.0022	Pass
					HV	2.24	0.0012	Pass
				-30	NV	-4.67	-0.0025	Pass
				-20	NV	-7.97	-0.0042	Pass
				-10	NV	-8.99	-0.0048	Pass
				0	NV	-3.94	-0.0021	Pass
				10	NV	-3.72	-0.0020	Pass
				20	NV	-4.45	-0.0024	Pass
				30	NV	2.42	0.0013	Pass
40		NV	3.51	0.0019	Pass			
50	NV	2.49	0.0013	Pass				
15MHz	DFT-s-OFDM PI/2 BPSK	3750	Outer_Full	20	LV	5.61	0.0030	Pass
					HV	5.89	0.0031	Pass
				-30	NV	8.97	0.0048	Pass
				-20	NV	-8.02	-0.0043	Pass
				-10	NV	-4.62	-0.0025	Pass
				0	NV	-4.89	-0.0026	Pass
10	NV	-5.59	-0.0030	Pass				



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				20	NV	8.63	0.0046	Pass			
				30	NV	-3.01	-0.0016	Pass			
				40	NV	-4.83	-0.0026	Pass			
				50	NV	-2.38	-0.0013	Pass			
	CP-OFDM QPSK			20	LV	-4.27	-0.0023	Pass			
					HV	-9.88	-0.0053	Pass			
				-30	NV	-4.18	-0.0022	Pass			
				-20	NV	-3.51	-0.0019	Pass			
				-10	NV	3.5	0.0019	Pass			
				0	NV	-6.61	-0.0035	Pass			
				10	NV	6.45	0.0034	Pass			
				20	NV	-7.48	-0.0040	Pass			
				30	NV	5.66	0.0030	Pass			
				40	NV	7.99	0.0043	Pass			
				50	NV	-5.27	-0.0028	Pass			
20MHz		DFT-s-OFDM PI/2 BPSK	3750	Outer_Full	20	LV	-4.67	-0.0025	Pass		
						HV	-9.84	-0.0052	Pass		
					-30	NV	-9.67	-0.0051	Pass		
					-20	NV	-2.96	-0.0016	Pass		
	-10				NV	5.38	0.0029	Pass			
	0				NV	-3.97	-0.0021	Pass			
	10				NV	-7.41	-0.0039	Pass			
	20				NV	-4.61	-0.0025	Pass			
	30				NV	7.66	0.0041	Pass			
	40	NV			-6.06	-0.0032	Pass				
	50	NV			2.96	0.0016	Pass				
	CP-OFDM QPSK						20	LV	2.99	0.0016	Pass
								HV	-3.13	-0.0017	Pass
							-30	NV	3.02	0.0016	Pass
							-20	NV	9.31	0.0050	Pass
							-10	NV	3.98	0.0021	Pass
							0	NV	4.39	0.0023	Pass
							10	NV	9.29	0.0049	Pass
20			NV	-8.45			-0.0045	Pass			



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				30	NV	3.91	0.0021	Pass
				40	NV	-4.18	-0.0022	Pass
				50	NV	4.65	0.0025	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
7420.02	-50.1	-13	-37.1	-57.04	4.19	11.13	Horizontal	Pass
11130.03	-46.98	-13	-33.98	-55.18	5.07	13.27	Horizontal	Pass
14840.04	-41.13	-13	-28.13	-50.36	5.19	14.42	Horizontal	Pass
7420.02	-49.55	-13	-36.55	-56.49	4.19	11.13	Vertical	Pass
11130.03	-45.59	-13	-32.59	-53.79	5.07	13.27	Vertical	Pass
14840.04	-41.02	-13	-28.02	-50.25	5.19	14.42	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
7680	-50.2	-13	-37.2	-57.725	4.22	11.74	Horizontal	Pass
11520	-45.29	-13	-32.29	-53.47	5.06	13.24	Horizontal	Pass
15360	-41.13	-13	-28.13	-50.09	5.56	14.52	Horizontal	Pass
7680	-50.41	-13	-37.41	-57.935	4.22	11.74	Vertical	Pass
11520	-44.91	-13	-31.91	-53.09	5.06	13.24	Vertical	Pass
15360	-40.85	-13	-27.85	-49.81	5.56	14.52	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
7939.98	-49.79	-13	-36.79	-57.315	4.22	11.74	Horizontal	Pass
11909.97	-44.74	-13	-31.74	-52.92	5.06	13.24	Horizontal	Pass
15879.96	-40.96	-13	-27.96	-49.6	5.61	14.25	Horizontal	Pass
7939.98	-49.41	-13	-36.41	-56.935	4.22	11.74	Vertical	Pass
11909.97	-45.26	-13	-32.26	-53.44	5.06	13.24	Vertical	Pass
15879.96	-41.22	-13	-28.22	-49.86	5.61	14.25	Vertical	Pass

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