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Appendix B.37

NR Band n77(3700-3980)



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99% & 26dB Bandwidth

Test Result

5G NR N77b(3700-3980MHz) 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	8.617	9.99	/	Pass
CP-OFDM QPSK		Outer Full	8.618	9.947	/	Pass

5G NR N77b(3700-3980MHz) 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	12.965	14.73	/	Pass
CP-OFDM QPSK		Outer Full	13.689	15.35	/	Pass

5G NR N77b(3700-3980MHz) 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	17.885	19.77	/	Pass
CP-OFDM QPSK		Outer Full	17.935	19.44	/	Pass



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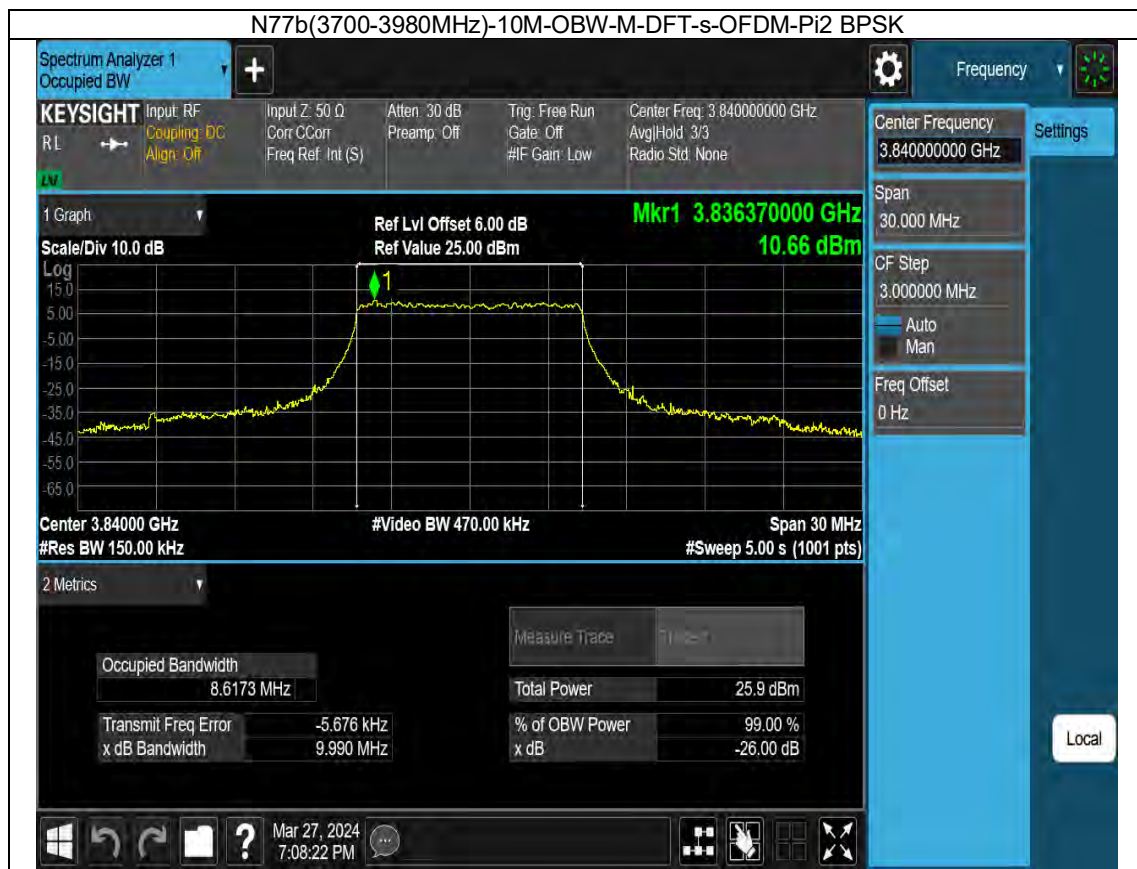
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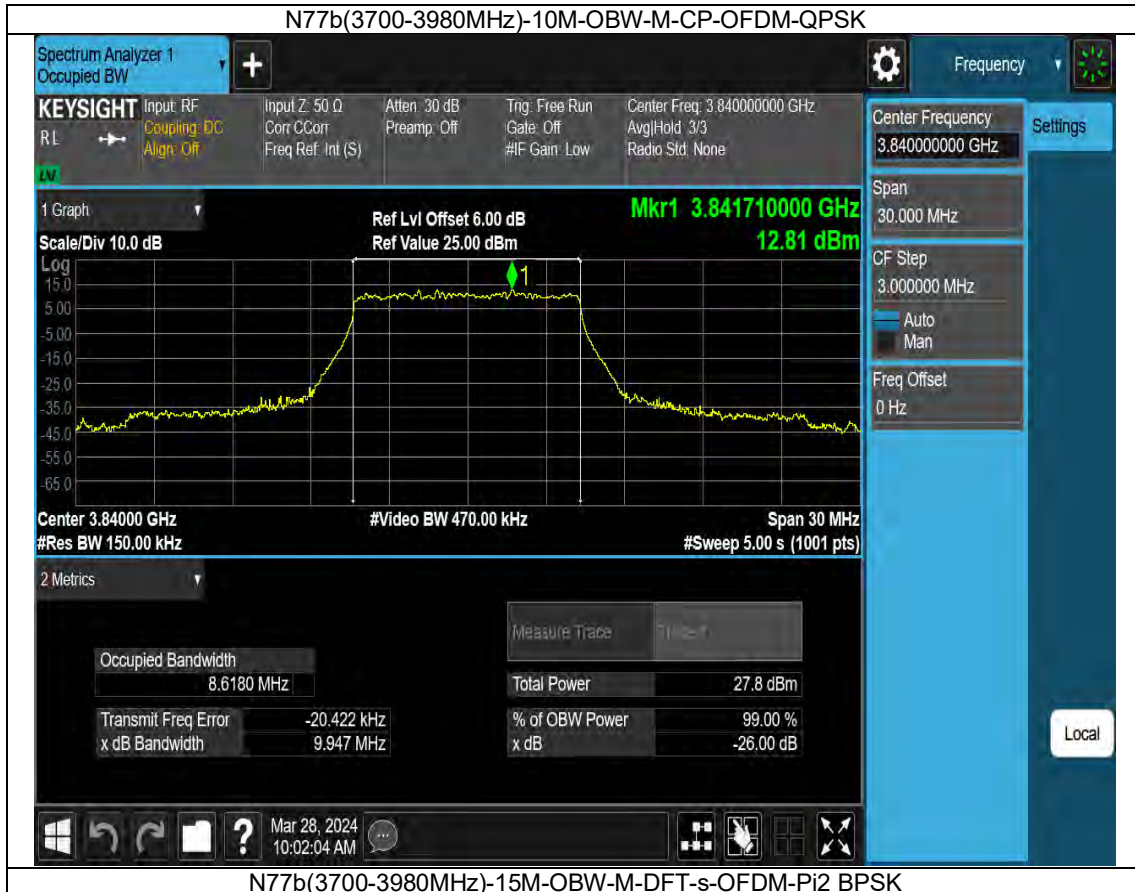
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Peak-Average Ratio

Test Result

5G NR N77b(3700-3980MHz) SCS=30kHz 10MHz					
Modulation	Mid CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	6.88	<=13	Pass
CP-OFDM QPSK		Outer_Full	5.02	<=13	Pass

5G NR N77b(3700-3980MHz) SCS=30kHz 15MHz					
Modulation	Mid CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	6.94	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.01	<=13	Pass

5G NR N77b(3700-3980MHz) SCS=30kHz 20MHz					
Modulation	Mid CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	6.89	<=13	Pass
CP-OFDM QPSK		Outer_Full	4.93	<=13	Pass



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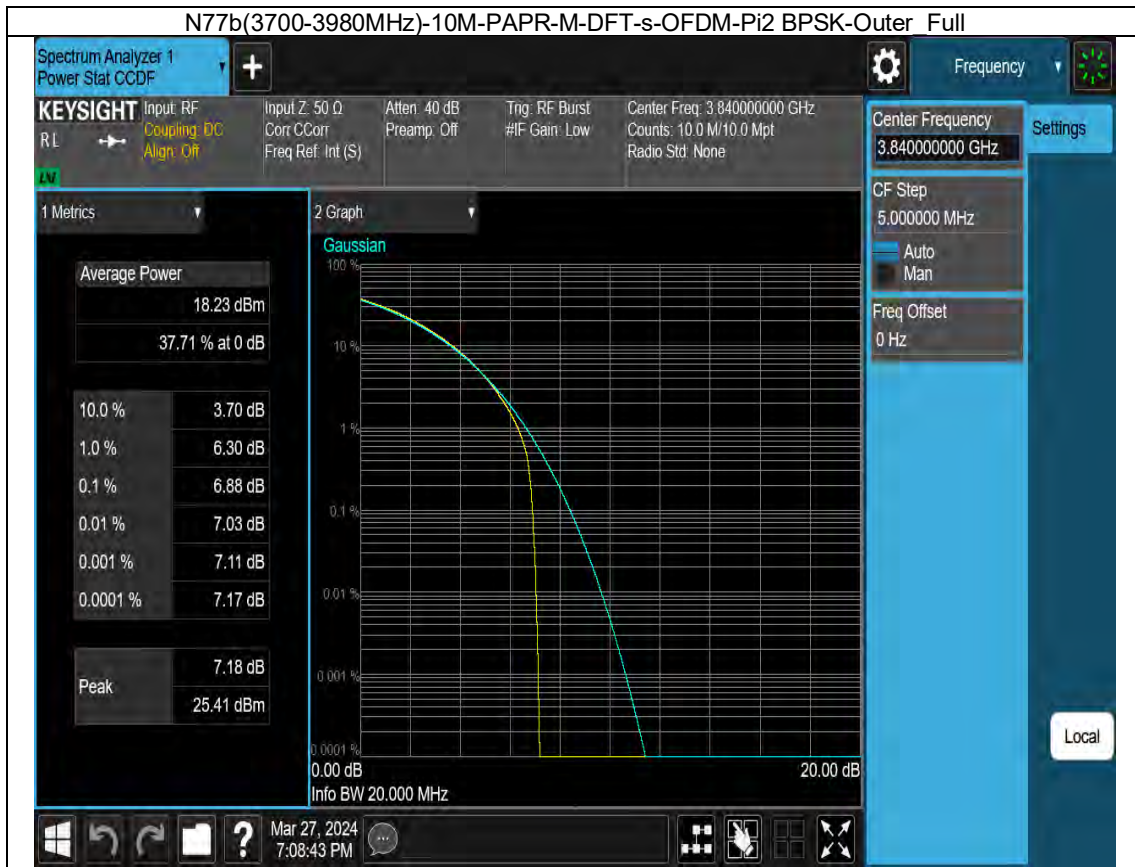
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Test Graph



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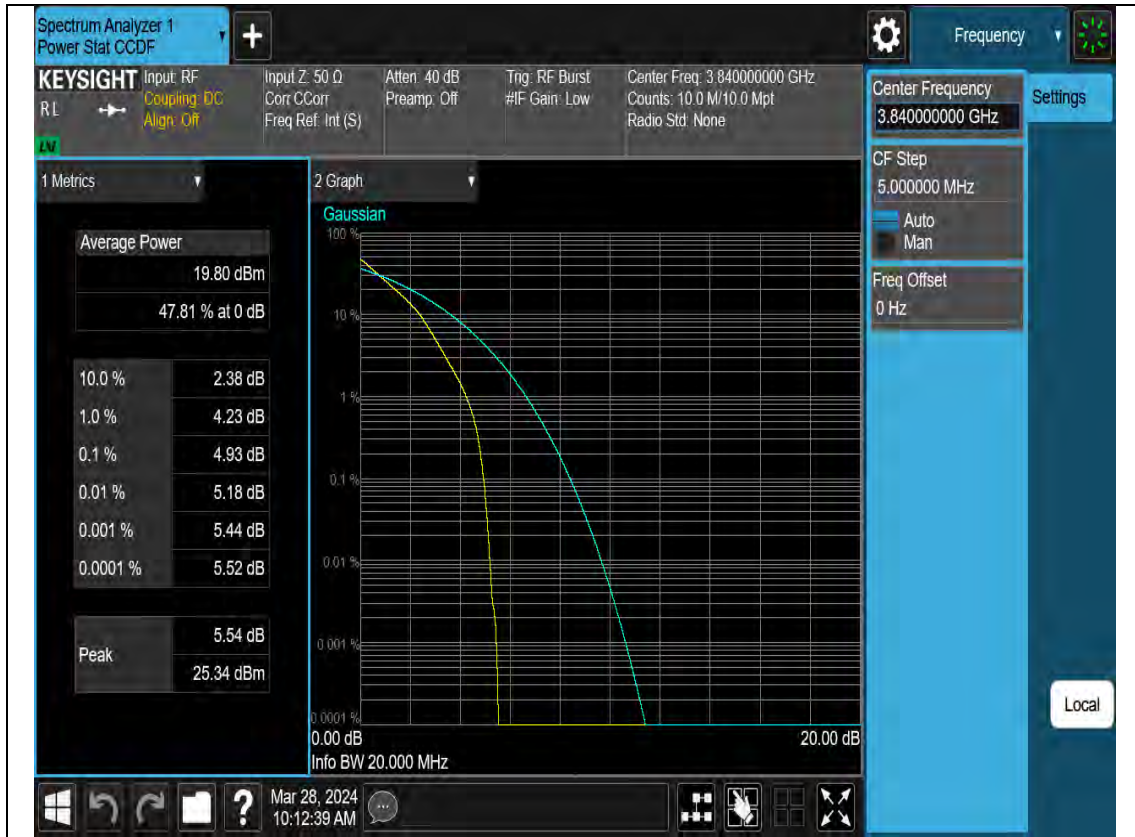
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N77b(3700-3980MHz)-20M-Bandedge-H-CP-OFDM-QPSK-Outer_Full



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N77b(3700-3980MHz)-20M-Bandedge-H-CP-OFDM-QPSK-1RB_MAX



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Conducted spurious emissions test graph



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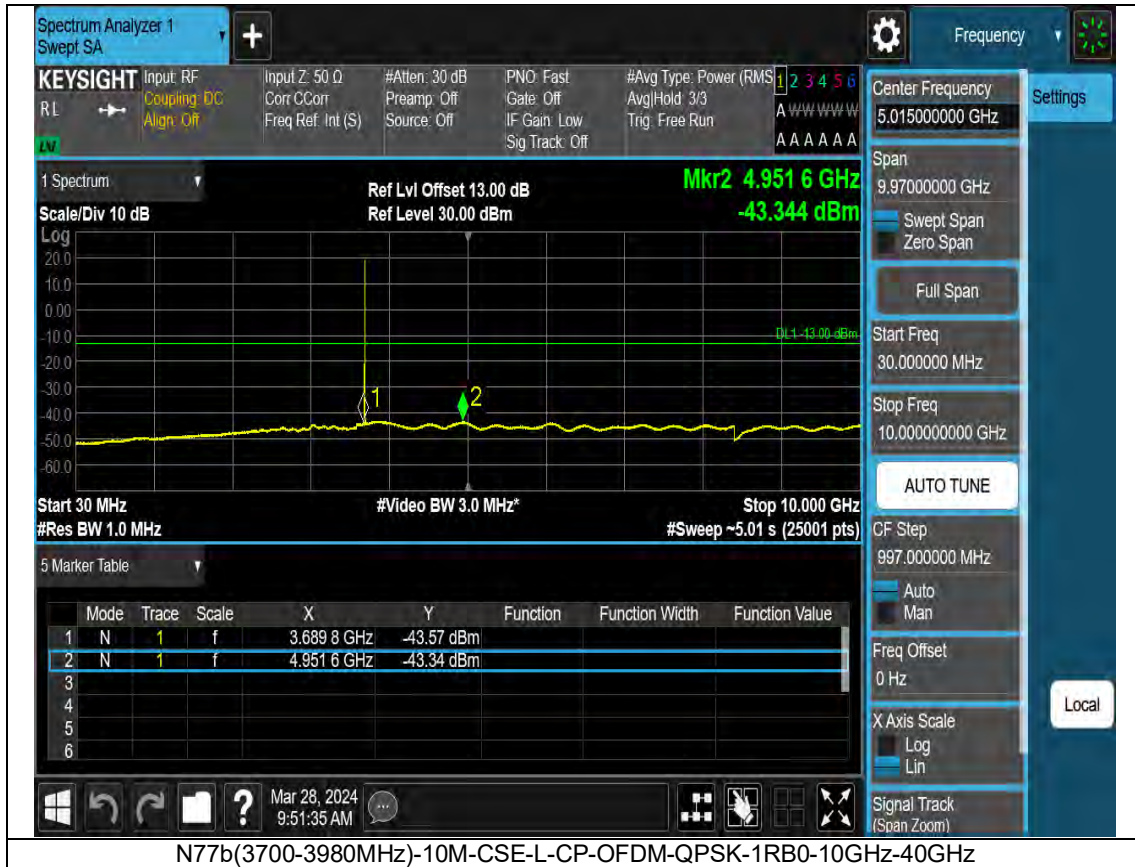
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N77b(3700-3980MHz)-15M-CSE-L-CP-OFDM-QPSK-1RB0-30MHz-10GHz



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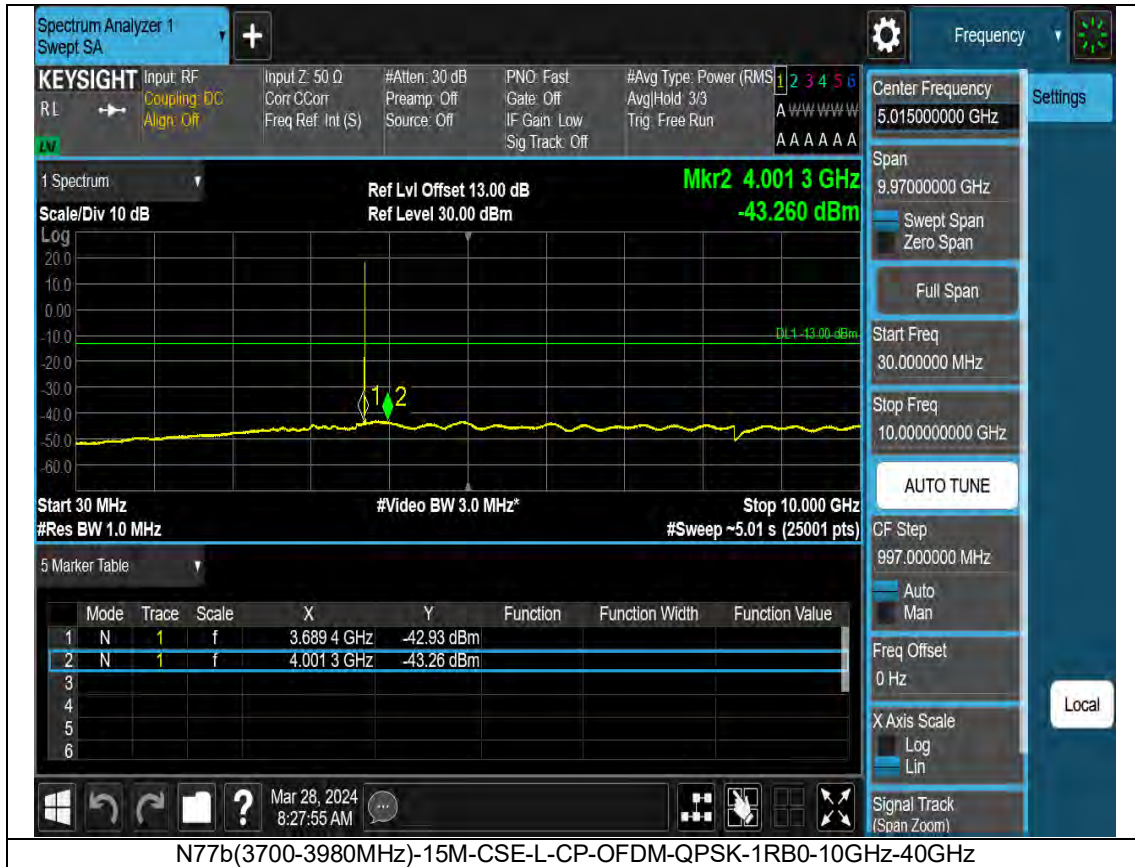
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N77b(3700-3980MHz)-15M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-40GHz



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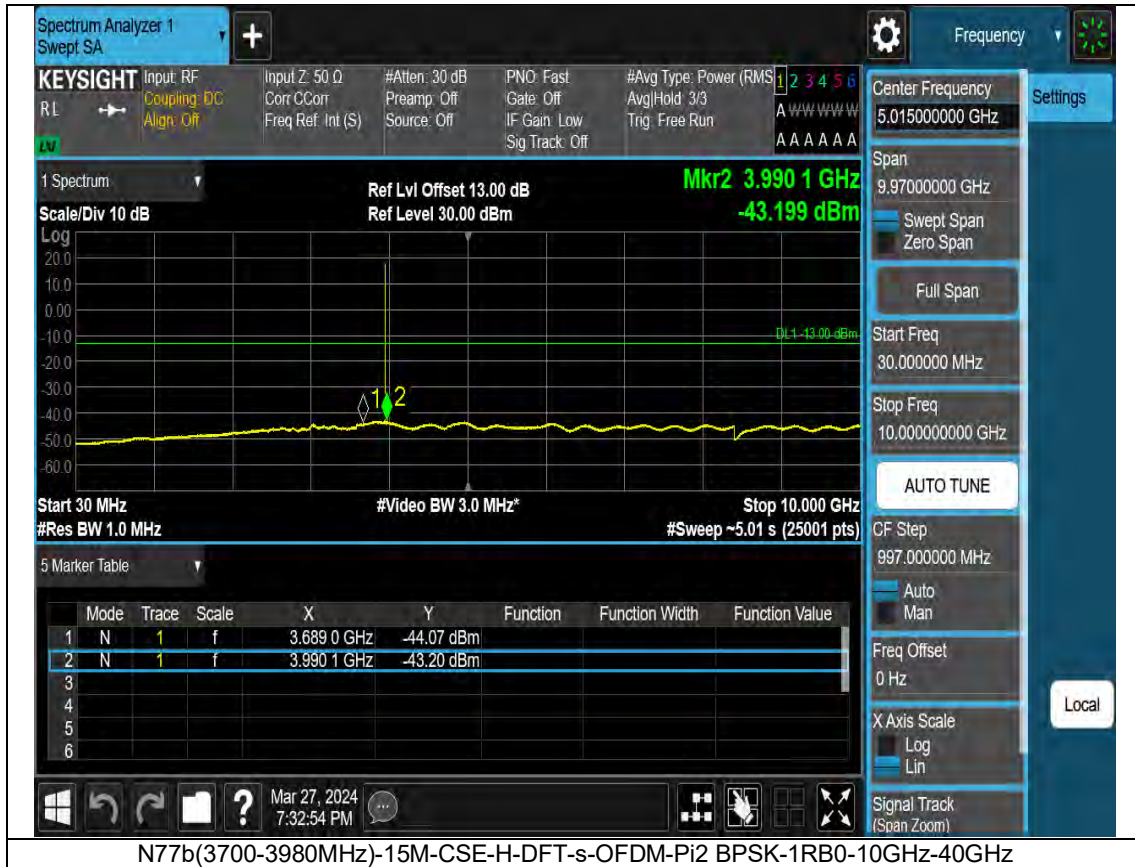
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N77b(3700-3980MHz)-20M-CSE-M-CP-OFDM-QPSK-1RB0-10GHz-40GHz



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N77b(3700-3980MHz)-20M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz



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N77b(3700-3980MHz)-20M-CSE-H-CP-OFDM-QPSK-1RB0-10GHz-40GHz



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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	22.01	24.96	30	Pass	2.95
			Edge_Full_Right	21.85	24.8	30	Pass	2.95
			Edge_1RB_Left	21.73	24.68	30	Pass	2.95
			Edge_1RB_Right	21.72	24.67	30	Pass	2.95
			Outer_Full	22.13	25.08	30	Pass	2.95
			Inner_Full	22.45	25.4	30	Pass	2.95
			Inner_1RB_Left	22.21	25.16	30	Pass	2.95
			Inner_1RB_Right	22.21	25.16	30	Pass	2.95
			Edge_Full_Left	21.29	24.24	30	Pass	2.95
			Edge_Full_Right	21.29	24.24	30	Pass	2.95
			Edge_1RB_Left	21.31	24.26	30	Pass	2.95
			Edge_1RB_Right	21.13	24.08	30	Pass	2.95
	DFT-s-OFDM QPSK	Outer_Full	21.67	24.62	30	Pass	2.95	
		Inner_Full	22.5	25.45	30	Pass	2.95	
		Inner_1RB_Left	22.28	25.23	30	Pass	2.95	
		Inner_1RB_Right	22.28	25.23	30	Pass	2.95	
		Edge_Full_Left	20.48	23.43	30	Pass	2.95	
		Edge_Full_Right	20.44	23.39	30	Pass	2.95	
		Edge_1RB_Left	20.2	23.15	30	Pass	2.95	
		Edge_1RB_Right	20.02	22.97	30	Pass	2.95	
		Outer_Full	20.68	23.63	30	Pass	2.95	
		Inner_Full	21.47	24.42	30	Pass	2.95	
		Inner_1RB_Left	21.07	24.02	30	Pass	2.95	
		Inner_1RB_Right	21.05	24	30	Pass	2.95	
	DFT-s-OFDM 16QAM	Edge_Full_Left	19.95	22.9	30	Pass	2.95	
		Edge_Full_Right	20.03	22.98	30	Pass	2.95	
		Edge_1RB_Left	19.49	22.44	30	Pass	2.95	
		Edge_1RB_Right	19.58	22.53	30	Pass	2.95	
		Outer_Full	20.22	23.17	30	Pass	2.95	
		DFT-s-OFDM 64QAM	Edge_Full_Left	19.95	22.9	30	Pass	2.95
			Edge_Full_Right	20.03	22.98	30	Pass	2.95
			Edge_1RB_Left	19.49	22.44	30	Pass	2.95
			Edge_1RB_Right	19.58	22.53	30	Pass	2.95
			Outer_Full	20.22	23.17	30	Pass	2.95
			Outer_Full	20.22	23.17	30	Pass	2.95



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CP-OFDM QPSK	Inner_Full	19.91	22.86	30	Pass	2.95		
	Inner_1RB_Left	19.51	22.46	30	Pass	2.95		
	Inner_1RB_Right	19.59	22.54	30	Pass	2.95		
	Edge_Full_Left	19.28	22.23	30	Pass	2.95		
	Edge_Full_Right	19.71	22.66	30	Pass	2.95		
	Edge_1RB_Left	18.7	21.65	30	Pass	2.95		
	Edge_1RB_Right	18.59	21.54	30	Pass	2.95		
	Outer_Full	19.74	22.69	30	Pass	2.95		
	Inner_Full	20.93	23.88	30	Pass	2.95		
	Inner_1RB_Left	20.43	23.38	30	Pass	2.95		
Inner_1RB_Right	20.34	23.29	30	Pass	2.95			
CP-OFDM 16QAM	Edge_Full_Left	19.01	21.96	30	Pass	2.95		
	Edge_Full_Right	19.21	22.16	30	Pass	2.95		
	Edge_1RB_Left	19.11	22.06	30	Pass	2.95		
	Edge_1RB_Right	18.87	21.82	30	Pass	2.95		
	Outer_Full	19.46	22.41	30	Pass	2.95		
	Inner_Full	20.59	23.54	30	Pass	2.95		
	Inner_1RB_Left	19.75	22.7	30	Pass	2.95		
	Inner_1RB_Right	20.05	23	30	Pass	2.95		
	Edge_Full_Left	18.93	21.88	30	Pass	2.95		
	Edge_Full_Right	18.86	21.81	30	Pass	2.95		
CP-OFDM 64QAM	Edge_1RB_Left	18.49	21.44	30	Pass	2.95		
	Edge_1RB_Right	18.44	21.39	30	Pass	2.95		
	Outer_Full	19.1	22.05	30	Pass	2.95		
	Inner_Full	19.03	21.98	30	Pass	2.95		
	Inner_1RB_Left	18.4	21.35	30	Pass	2.95		
	Inner_1RB_Right	18.31	21.26	30	Pass	2.95		
	DFT-s-OFDM PI/2 BPSK	3840MHz	Edge_Full_Left	21.36	24.31	30	Pass	2.95
			Edge_Full_Right	21.39	24.34	30	Pass	2.95
			Edge_1RB_Left	21.09	24.04	30	Pass	2.95
			Edge_1RB_Right	21.08	24.03	30	Pass	2.95
Outer_Full			21.49	24.44	30	Pass	2.95	
Inner_Full			21.95	24.9	30	Pass	2.95	



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DFT-s-OFDM QPSK	Inner_1RB_Left	21.54	24.49	30	Pass	2.95	
	Inner_1RB_Right	21.57	24.52	30	Pass	2.95	
	Edge_Full_Left	20.65	23.6	30	Pass	2.95	
	Edge_Full_Right	20.68	23.63	30	Pass	2.95	
	Edge_1RB_Left	20.85	23.8	30	Pass	2.95	
	Edge_1RB_Right	20.79	23.74	30	Pass	2.95	
	Outer_Full	20.99	23.94	30	Pass	2.95	
	Inner_Full	21.77	24.72	30	Pass	2.95	
	Inner_1RB_Left	21.83	24.78	30	Pass	2.95	
	Inner_1RB_Right	21.86	24.81	30	Pass	2.95	
	Edge_Full_Left	19.59	22.54	30	Pass	2.95	
	Edge_Full_Right	19.78	22.73	30	Pass	2.95	
DFT-s-OFDM 16QAM	Edge_1RB_Left	19.5	22.45	30	Pass	2.95	
	Edge_1RB_Right	19.42	22.37	30	Pass	2.95	
	Outer_Full	19.95	22.9	30	Pass	2.95	
	Inner_Full	20.9	23.85	30	Pass	2.95	
	Inner_1RB_Left	20.49	23.44	30	Pass	2.95	
	Inner_1RB_Right	20.51	23.46	30	Pass	2.95	
	Edge_Full_Left	19.44	22.39	30	Pass	2.95	
	Edge_Full_Right	19.36	22.31	30	Pass	2.95	
	Edge_1RB_Left	19.23	22.18	30	Pass	2.95	
	Edge_1RB_Right	19.25	22.2	30	Pass	2.95	
	Outer_Full	19.64	22.59	30	Pass	2.95	
	Inner_Full	19.32	22.27	30	Pass	2.95	
DFT-s-OFDM 64QAM	Inner_1RB_Left	19.24	22.19	30	Pass	2.95	
	Inner_1RB_Right	19.44	22.39	30	Pass	2.95	
	Edge_Full_Left	19.14	22.09	30	Pass	2.95	
	Edge_Full_Right	18.72	21.67	30	Pass	2.95	
	Edge_1RB_Left	18.39	21.34	30	Pass	2.95	
	Edge_1RB_Right	18.45	21.4	30	Pass	2.95	
	Outer_Full	19.06	22.01	30	Pass	2.95	
	Inner_Full	20.22	23.17	30	Pass	2.95	
	Inner_1RB_Left	19.95	22.9	30	Pass	2.95	
	CP-OFDM QPSK						



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CP-OFDM 16QAM	3975MHz	Inner_1RB_Right	20.26	23.21	30	Pass	2.95
		Edge_Full_Left	19.01	21.96	30	Pass	2.95
		Edge_Full_Right	19.01	21.96	30	Pass	2.95
		Edge_1RB_Left	18.41	21.36	30	Pass	2.95
		Edge_1RB_Right	18.22	21.17	30	Pass	2.95
		Outer_Full	18.93	21.88	30	Pass	2.95
		Inner_Full	19.86	22.81	30	Pass	2.95
		Inner_1RB_Left	19.64	22.59	30	Pass	2.95
CP-OFDM 64QAM	3975MHz	Inner_1RB_Right	19.48	22.43	30	Pass	2.95
		Edge_Full_Left	18.31	21.26	30	Pass	2.95
		Edge_Full_Right	18.41	21.36	30	Pass	2.95
		Edge_1RB_Left	18.3	21.25	30	Pass	2.95
		Edge_1RB_Right	18.02	20.97	30	Pass	2.95
		Outer_Full	18.66	21.61	30	Pass	2.95
		Inner_Full	18.38	21.33	30	Pass	2.95
		Inner_1RB_Left	18.06	21.01	30	Pass	2.95
DFT-s-OFDM PI/2 BPSK	3975MHz	Inner_1RB_Right	18.31	21.26	30	Pass	2.95
		Edge_Full_Left	21.16	24.11	30	Pass	2.95
		Edge_Full_Right	21.13	24.08	30	Pass	2.95
		Edge_1RB_Left	21.15	24.1	30	Pass	2.95
		Edge_1RB_Right	21.09	24.04	30	Pass	2.95
		Outer_Full	21.49	24.44	30	Pass	2.95
		Inner_Full	21.86	24.81	30	Pass	2.95
		Inner_1RB_Left	21.65	24.6	30	Pass	2.95
DFT-s-OFDM QPSK	3975MHz	Inner_1RB_Right	21.64	24.59	30	Pass	2.95
		Edge_Full_Left	20.76	23.71	30	Pass	2.95
		Edge_Full_Right	20.68	23.63	30	Pass	2.95
		Edge_1RB_Left	20.75	23.7	30	Pass	2.95
		Edge_1RB_Right	20.72	23.67	30	Pass	2.95
		Outer_Full	21.07	24.02	30	Pass	2.95
		Inner_Full	21.78	24.73	30	Pass	2.95
		Inner_1RB_Left	21.85	24.8	30	Pass	2.95
		Inner_1RB_Right	21.64	24.59	30	Pass	2.95



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DFT-s-OFDM 16QAM	Edge_Full_Left	19.73	22.68	30	Pass	2.95
	Edge_Full_Right	19.7	22.65	30	Pass	2.95
	Edge_1RB_Left	19.59	22.54	30	Pass	2.95
	Edge_1RB_Right	19.48	22.43	30	Pass	2.95
	Outer_Full	20.04	22.99	30	Pass	2.95
	Inner_Full	20.82	23.77	30	Pass	2.95
	Inner_1RB_Left	20.57	23.52	30	Pass	2.95
	Inner_1RB_Right	20.45	23.4	30	Pass	2.95
	DFT-s-OFDM 64QAM	Edge_Full_Left	19.42	22.37	30	Pass
Edge_Full_Right		19.36	22.31	30	Pass	2.95
Edge_1RB_Left		19.44	22.39	30	Pass	2.95
Edge_1RB_Right		19.31	22.26	30	Pass	2.95
Outer_Full		19.61	22.56	30	Pass	2.95
Inner_Full		19.36	22.31	30	Pass	2.95
Inner_1RB_Left		19.35	22.3	30	Pass	2.95
Inner_1RB_Right		19.33	22.28	30	Pass	2.95
CP-OFDM QPSK		Edge_Full_Left	18.79	21.74	30	Pass
	Edge_Full_Right	18.76	21.71	30	Pass	2.95
	Edge_1RB_Left	18.32	21.27	30	Pass	2.95
	Edge_1RB_Right	18.32	21.27	30	Pass	2.95
	Outer_Full	19.03	21.98	30	Pass	2.95
	Inner_Full	20.24	23.19	30	Pass	2.95
	Inner_1RB_Left	19.86	22.81	30	Pass	2.95
	Inner_1RB_Right	19.9	22.85	30	Pass	2.95
	CP-OFDM 16QAM	Edge_Full_Left	18.57	21.52	30	Pass
Edge_Full_Right		18.65	21.6	30	Pass	2.95
Edge_1RB_Left		18.36	21.31	30	Pass	2.95
Edge_1RB_Right		18.33	21.28	30	Pass	2.95
Outer_Full		18.88	21.83	30	Pass	2.95
Inner_Full		19.73	22.68	30	Pass	2.95
Inner_1RB_Left		19.34	22.29	30	Pass	2.95
Inner_1RB_Right		19.21	22.16	30	Pass	2.95
CP-OFDM 64QAM		Edge_Full_Left	18.28	21.23	30	Pass



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			Edge_Full_Right	18.12	21.07	30	Pass	2.95	
			Edge_1RB_Left	18.14	21.09	30	Pass	2.95	
			Edge_1RB_Right	18.13	21.08	30	Pass	2.95	
			Outer_Full	18.64	21.59	30	Pass	2.95	
			Inner_Full	18.25	21.2	30	Pass	2.95	
			Inner_1RB_Left	18.14	21.09	30	Pass	2.95	
			Inner_1RB_Right	18.16	21.11	30	Pass	2.95	
15MHz	DFT-s-OFDM PI/2 BPSK	3707.52MHz	Edge_Full_Left	21.78	24.73	30	Pass	2.95	
			Edge_Full_Right	22.01	24.96	30	Pass	2.95	
			Edge_1RB_Left	21.64	24.59	30	Pass	2.95	
			Edge_1RB_Right	21.66	24.61	30	Pass	2.95	
			Outer_Full	-34.64	-31.69	30	Pass	2.95	
			Inner_Full	-34.52	-31.57	30	Pass	2.95	
	DFT-s-OFDM QPSK	3707.52MHz	3707.52MHz	Inner_1RB_Left	-77	-74.05	30	Pass	2.95
				Inner_1RB_Right	22.36	25.31	30	Pass	2.95
				Edge_Full_Left	21.39	24.34	30	Pass	2.95
				Edge_Full_Right	21.3	24.25	30	Pass	2.95
				Edge_1RB_Left	20.71	23.66	30	Pass	2.95
				Edge_1RB_Right	20.93	23.88	30	Pass	2.95
	DFT-s-OFDM 16QAM	3707.52MHz	3707.52MHz	Outer_Full	21.52	24.47	30	Pass	2.95
				Inner_Full	22.38	25.33	30	Pass	2.95
				Inner_1RB_Left	21.97	24.92	30	Pass	2.95
				Inner_1RB_Right	22.15	25.1	30	Pass	2.95
				Edge_Full_Left	19.93	22.88	30	Pass	2.95
				Edge_Full_Right	20.3	23.25	30	Pass	2.95
	DFT-s-OFDM 64QAM	3707.52MHz	3707.52MHz	Edge_1RB_Left	20.5	23.45	30	Pass	2.95
				Edge_1RB_Right	20.46	23.41	30	Pass	2.95
				Outer_Full	20.47	23.42	30	Pass	2.95
				Inner_Full	21.48	24.43	30	Pass	2.95
				Inner_1RB_Left	21.33	24.28	30	Pass	2.95
				Inner_1RB_Right	21.39	24.34	30	Pass	2.95
			Edge_Full_Left	20	22.95	30	Pass	2.95	
			Edge_Full_Right	19.97	22.92	30	Pass	2.95	



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CP-OFDM QPSK	Edge_1RB_Left	19.26	22.21	30	Pass	2.95		
	Edge_1RB_Right	19.44	22.39	30	Pass	2.95		
	Outer_Full	20	22.95	30	Pass	2.95		
	Inner_Full	19.9	22.85	30	Pass	2.95		
	Inner_1RB_Left	19.17	22.12	30	Pass	2.95		
	Inner_1RB_Right	19.54	22.49	30	Pass	2.95		
	Edge_Full_Left	19.21	22.16	30	Pass	2.95		
	Edge_Full_Right	19.47	22.42	30	Pass	2.95		
	Edge_1RB_Left	19.61	22.56	30	Pass	2.95		
	Edge_1RB_Right	19.4	22.35	30	Pass	2.95		
	Outer_Full	19.72	22.67	30	Pass	2.95		
	Inner_Full	20.89	23.84	30	Pass	2.95		
CP-OFDM 16QAM	Inner_1RB_Left	20.77	23.72	30	Pass	2.95		
	Inner_1RB_Right	21.13	24.08	30	Pass	2.95		
	Edge_Full_Left	18.71	21.66	30	Pass	2.95		
	Edge_Full_Right	18.88	21.83	30	Pass	2.95		
	Edge_1RB_Left	19.05	22	30	Pass	2.95		
	Edge_1RB_Right	19.11	22.06	30	Pass	2.95		
	Outer_Full	19.53	22.48	30	Pass	2.95		
	Inner_Full	20.39	23.34	30	Pass	2.95		
	Inner_1RB_Left	19.9	22.85	30	Pass	2.95		
	Inner_1RB_Right	20.12	23.07	30	Pass	2.95		
	CP-OFDM 64QAM	Edge_Full_Left	18.29	21.24	30	Pass	2.95	
		Edge_Full_Right	18.74	21.69	30	Pass	2.95	
Edge_1RB_Left		19.15	22.1	30	Pass	2.95		
Edge_1RB_Right		19.13	22.08	30	Pass	2.95		
Outer_Full		19.16	22.11	30	Pass	2.95		
Inner_Full		18.89	21.84	30	Pass	2.95		
Inner_1RB_Left		18.63	21.58	30	Pass	2.95		
Inner_1RB_Right		19.21	22.16	30	Pass	2.95		
DFT-s-OFDM PI/2 BPSK		3840MHz	Edge_Full_Left	21.19	24.14	30	Pass	2.95
			Edge_Full_Right	21.11	24.06	30	Pass	2.95
			Edge_1RB_Left	21.11	24.06	30	Pass	2.95



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DFT-s-OFDM QPSK	Edge_1RB_Right	21.02	23.97	30	Pass	2.95	
	Outer_Full	21.47	24.42	30	Pass	2.95	
	Inner_Full	21.69	24.64	30	Pass	2.95	
	Inner_1RB_Left	21.56	24.51	30	Pass	2.95	
	Inner_1RB_Right	21.66	24.61	30	Pass	2.95	
	Edge_Full_Left	20.74	23.69	30	Pass	2.95	
	Edge_Full_Right	20.68	23.63	30	Pass	2.95	
	Edge_1RB_Left	20.46	23.41	30	Pass	2.95	
	Edge_1RB_Right	20.31	23.26	30	Pass	2.95	
	Outer_Full	20.79	23.74	30	Pass	2.95	
	Inner_Full	21.64	24.59	30	Pass	2.95	
	Inner_1RB_Left	21.26	24.21	30	Pass	2.95	
DFT-s-OFDM 16QAM	Inner_1RB_Right	21.19	24.14	30	Pass	2.95	
	Edge_Full_Left	19.57	22.52	30	Pass	2.95	
	Edge_Full_Right	19.45	22.4	30	Pass	2.95	
	Edge_1RB_Left	19.85	22.8	30	Pass	2.95	
	Edge_1RB_Right	19.54	22.49	30	Pass	2.95	
	Outer_Full	19.77	22.72	30	Pass	2.95	
	Inner_Full	20.72	23.67	30	Pass	2.95	
	Inner_1RB_Left	20.56	23.51	30	Pass	2.95	
	Inner_1RB_Right	20.53	23.48	30	Pass	2.95	
	Edge_Full_Left	19.13	22.08	30	Pass	2.95	
	Edge_Full_Right	19.17	22.12	30	Pass	2.95	
	Edge_1RB_Left	18.7	21.65	30	Pass	2.95	
DFT-s-OFDM 64QAM	Edge_1RB_Right	18.71	21.66	30	Pass	2.95	
	Outer_Full	19.35	22.3	30	Pass	2.95	
	Inner_Full	19.27	22.22	30	Pass	2.95	
	Inner_1RB_Left	18.8	21.75	30	Pass	2.95	
	Inner_1RB_Right	18.72	21.67	30	Pass	2.95	
	Edge_Full_Left	18.32	21.27	30	Pass	2.95	
	Edge_Full_Right	18.1	21.05	30	Pass	2.95	
	Edge_1RB_Left	19.14	22.09	30	Pass	2.95	
	Edge_1RB_Right	18.87	21.82	30	Pass	2.95	
	CP-OFDM QPSK						



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CP-OFDM 16QAM		Outer_Full	18.96	21.91	30	Pass	2.95		
		Inner_Full	20.1	23.05	30	Pass	2.95		
		Inner_1RB_Left	20.11	23.06	30	Pass	2.95		
		Inner_1RB_Right	20.15	23.1	30	Pass	2.95		
		Edge_Full_Left	18.34	21.29	30	Pass	2.95		
		Edge_Full_Right	18.34	21.29	30	Pass	2.95		
		Edge_1RB_Left	18.43	21.38	30	Pass	2.95		
		Edge_1RB_Right	18.42	21.37	30	Pass	2.95		
		Outer_Full	18.71	21.66	30	Pass	2.95		
		Inner_Full	19.68	22.63	30	Pass	2.95		
		Inner_1RB_Left	19.68	22.63	30	Pass	2.95		
		Inner_1RB_Right	19.68	22.63	30	Pass	2.95		
		Edge_Full_Left	17.81	20.76	30	Pass	2.95		
		Edge_Full_Right	17.92	20.87	30	Pass	2.95		
CP-OFDM 64QAM		Edge_1RB_Left	18.47	21.42	30	Pass	2.95		
		Edge_1RB_Right	18.25	21.2	30	Pass	2.95		
		Outer_Full	18.29	21.24	30	Pass	2.95		
		Inner_Full	17.99	20.94	30	Pass	2.95		
		Inner_1RB_Left	18.21	21.16	30	Pass	2.95		
		Inner_1RB_Right	18.39	21.34	30	Pass	2.95		
		DFT-s-OFDM PI/2 BPSK	3972.48MHz	Edge_Full_Left	21.2	24.15	30	Pass	2.95
				Edge_Full_Right	21.18	24.13	30	Pass	2.95
				Edge_1RB_Left	21.17	24.12	30	Pass	2.95
				Edge_1RB_Right	21.21	24.16	30	Pass	2.95
				Outer_Full	21.43	24.38	30	Pass	2.95
				Inner_Full	21.86	24.81	30	Pass	2.95
				Inner_1RB_Left	21.66	24.61	30	Pass	2.95
				Inner_1RB_Right	21.69	24.64	30	Pass	2.95
DFT-s-OFDM QPSK				Edge_Full_Left	20.78	23.73	30	Pass	2.95
				Edge_Full_Right	20.8	23.75	30	Pass	2.95
				Edge_1RB_Left	20.35	23.3	30	Pass	2.95
				Edge_1RB_Right	20.41	23.36	30	Pass	2.95
				Outer_Full	20.84	23.79	30	Pass	2.95



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DFT-s-OFDM 16QAM	Inner_Full	21.77	24.72	30	Pass	2.95
	Inner_1RB_Left	21.36	24.31	30	Pass	2.95
	Inner_1RB_Right	21.31	24.26	30	Pass	2.95
	Edge_Full_Left	19.56	22.51	30	Pass	2.95
	Edge_Full_Right	19.6	22.55	30	Pass	2.95
	Edge_1RB_Left	19.53	22.48	30	Pass	2.95
	Edge_1RB_Right	19.51	22.46	30	Pass	2.95
	Outer_Full	19.94	22.89	30	Pass	2.95
	Inner_Full	20.77	23.72	30	Pass	2.95
	Inner_1RB_Left	20.8	23.75	30	Pass	2.95
	Inner_1RB_Right	20.83	23.78	30	Pass	2.95
	DFT-s-OFDM 64QAM	Edge_Full_Left	19.19	22.14	30	Pass
Edge_Full_Right		19.21	22.16	30	Pass	2.95
Edge_1RB_Left		19.06	22.01	30	Pass	2.95
Edge_1RB_Right		19.12	22.07	30	Pass	2.95
Outer_Full		19.47	22.42	30	Pass	2.95
Inner_Full		19.39	22.34	30	Pass	2.95
CP-OFDM QPSK	Inner_1RB_Left	19.02	21.97	30	Pass	2.95
	Inner_1RB_Right	19.1	22.05	30	Pass	2.95
	Edge_Full_Left	18.91	21.86	30	Pass	2.95
	Edge_Full_Right	18.71	21.66	30	Pass	2.95
	Edge_1RB_Left	18.64	21.59	30	Pass	2.95
	Edge_1RB_Right	18.63	21.58	30	Pass	2.95
	Outer_Full	19.01	21.96	30	Pass	2.95
	Inner_Full	20.34	23.29	30	Pass	2.95
	Inner_1RB_Left	20.64	23.59	30	Pass	2.95
	Inner_1RB_Right	20.28	23.23	30	Pass	2.95
CP-OFDM 16QAM	Edge_Full_Left	18.7	21.65	30	Pass	2.95
	Edge_Full_Right	18.42	21.37	30	Pass	2.95
	Edge_1RB_Left	18.74	21.69	30	Pass	2.95
	Edge_1RB_Right	18.59	21.54	30	Pass	2.95
	Outer_Full	18.96	21.91	30	Pass	2.95
	Inner_Full	19.94	22.89	30	Pass	2.95



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CP-OFDM 64QAM	Inner_1RB_Left	19.56	22.51	30	Pass	2.95
	Inner_1RB_Right	19.18	22.13	30	Pass	2.95
	Edge_Full_Left	18.15	21.1	30	Pass	2.95
	Edge_Full_Right	17.74	20.69	30	Pass	2.95
	Edge_1RB_Left	18.48	21.43	30	Pass	2.95
	Edge_1RB_Right	18.46	21.41	30	Pass	2.95
	Outer_Full	18.46	21.41	30	Pass	2.95
	Inner_Full	18.26	21.21	30	Pass	2.95
	Inner_1RB_Left	18.68	21.63	30	Pass	2.95
	Inner_1RB_Right	18.39	21.34	30	Pass	2.95
DFT-s-OFDM PI/2 BPSK	Edge_Full_Left	21.91	24.86	30	Pass	2.95
	Edge_Full_Right	22.02	24.97	30	Pass	2.95
	Edge_1RB_Left	21.82	24.77	30	Pass	2.95
	Edge_1RB_Right	21.95	24.9	30	Pass	2.95
	Outer_Full	22.24	25.19	30	Pass	2.95
	Inner_Full	22.52	25.47	30	Pass	2.95
	Inner_1RB_Left	22.21	25.16	30	Pass	2.95
	Inner_1RB_Right	22.34	25.29	30	Pass	2.95
	Edge_Full_Left	21.45	24.4	30	Pass	2.95
	Edge_Full_Right	21.53	24.48	30	Pass	2.95
DFT-s-OFDM QPSK	Edge_1RB_Left	21.16	24.11	30	Pass	2.95
	Edge_1RB_Right	21.51	24.46	30	Pass	2.95
	Outer_Full	21.8	24.75	30	Pass	2.95
	Inner_Full	22.5	25.45	30	Pass	2.95
	Inner_1RB_Left	22.13	25.08	30	Pass	2.95
	Inner_1RB_Right	22.29	25.24	30	Pass	2.95
	Edge_Full_Left	19.94	22.89	30	Pass	2.95
	Edge_Full_Right	20.33	23.28	30	Pass	2.95
	Edge_1RB_Left	19.84	22.79	30	Pass	2.95
	Edge_1RB_Right	20.1	23.05	30	Pass	2.95
DFT-s-OFDM 16QAM	Outer_Full	20.77	23.72	30	Pass	2.95
	Inner_Full	21.48	24.43	30	Pass	2.95
	Inner_1RB_Left	20.71	23.66	30	Pass	2.95



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DFT-s-OFDM 64QAM	Inner_1RB_Right	20.97	23.92	30	Pass	2.95
	Edge_Full_Left	19.58	22.53	30	Pass	2.95
	Edge_Full_Right	19.96	22.91	30	Pass	2.95
	Edge_1RB_Left	19.79	22.74	30	Pass	2.95
	Edge_1RB_Right	19.93	22.88	30	Pass	2.95
	Outer_Full	20.25	23.2	30	Pass	2.95
	Inner_Full	20.01	22.96	30	Pass	2.95
	Inner_1RB_Left	19.69	22.64	30	Pass	2.95
	Inner_1RB_Right	19.96	22.91	30	Pass	2.95
	CP-OFDM QPSK	Edge_Full_Left	19.3	22.25	30	Pass
Edge_Full_Right		19.66	22.61	30	Pass	2.95
Edge_1RB_Left		19.44	22.39	30	Pass	2.95
Edge_1RB_Right		19.49	22.44	30	Pass	2.95
Outer_Full		19.79	22.74	30	Pass	2.95
Inner_Full		21.02	23.97	30	Pass	2.95
Inner_1RB_Left		20.91	23.86	30	Pass	2.95
Inner_1RB_Right		21.19	24.14	30	Pass	2.95
Edge_Full_Left		19.07	22.02	30	Pass	2.95
Edge_Full_Right		19.47	22.42	30	Pass	2.95
CP-OFDM 16QAM	Edge_1RB_Left	19.45	22.4	30	Pass	2.95
	Edge_1RB_Right	19.45	22.4	30	Pass	2.95
	Outer_Full	19.82	22.77	30	Pass	2.95
	Inner_Full	20.56	23.51	30	Pass	2.95
	Inner_1RB_Left	20.54	23.49	30	Pass	2.95
	Inner_1RB_Right	20.62	23.57	30	Pass	2.95
	Edge_Full_Left	18.57	21.52	30	Pass	2.95
	Edge_Full_Right	18.97	21.92	30	Pass	2.95
	Edge_1RB_Left	18.39	21.34	30	Pass	2.95
	Edge_1RB_Right	18.88	21.83	30	Pass	2.95
CP-OFDM 64QAM	Outer_Full	19.2	22.15	30	Pass	2.95
	Inner_Full	19.2	22.15	30	Pass	2.95
	Inner_1RB_Left	18.37	21.32	30	Pass	2.95
	Inner_1RB_Right	19	21.95	30	Pass	2.95



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DFT-s-OFDM PI/2 BPSK	3840MHz	Edge_Full_Left	21.26	24.21	30	Pass	2.95		
		Edge_Full_Right	21.25	24.2	30	Pass	2.95		
		Edge_1RB_Left	21.15	24.1	30	Pass	2.95		
		Edge_1RB_Right	21.08	24.03	30	Pass	2.95		
		Outer_Full	21.4	24.35	30	Pass	2.95		
		Inner_Full	21.83	24.78	30	Pass	2.95		
		Inner_1RB_Left	21.54	24.49	30	Pass	2.95		
		Inner_1RB_Right	21.57	24.52	30	Pass	2.95		
		DFT-s-OFDM QPSK	3840MHz	Edge_Full_Left	20.71	23.66	30	Pass	2.95
				Edge_Full_Right	20.66	23.61	30	Pass	2.95
				Edge_1RB_Left	20.42	23.37	30	Pass	2.95
				Edge_1RB_Right	20.38	23.33	30	Pass	2.95
Outer_Full	21.02			23.97	30	Pass	2.95		
Inner_Full	21.74			24.69	30	Pass	2.95		
DFT-s-OFDM 16QAM	3840MHz	Inner_1RB_Left	21.41	24.36	30	Pass	2.95		
		Inner_1RB_Right	21.36	24.31	30	Pass	2.95		
		Edge_Full_Left	19.4	22.35	30	Pass	2.95		
		Edge_Full_Right	19.52	22.47	30	Pass	2.95		
		Edge_1RB_Left	19.15	22.1	30	Pass	2.95		
		Edge_1RB_Right	19.17	22.12	30	Pass	2.95		
DFT-s-OFDM 64QAM	3840MHz	Outer_Full	19.96	22.91	30	Pass	2.95		
		Inner_Full	20.79	23.74	30	Pass	2.95		
		Inner_1RB_Left	20.13	23.08	30	Pass	2.95		
		Inner_1RB_Right	20.23	23.18	30	Pass	2.95		
		Edge_Full_Left	19.17	22.12	30	Pass	2.95		
		Edge_Full_Right	19.27	22.22	30	Pass	2.95		
CP-OFDM QPSK	3840MHz	Edge_1RB_Left	19.1	22.05	30	Pass	2.95		
		Edge_1RB_Right	19.13	22.08	30	Pass	2.95		
		Outer_Full	19.52	22.47	30	Pass	2.95		
		Inner_Full	19.32	22.27	30	Pass	2.95		
		Inner_1RB_Left	19.02	21.97	30	Pass	2.95		
		Inner_1RB_Right	19.05	22	30	Pass	2.95		
		Edge_Full_Left	18.38	21.33	30	Pass	2.95		



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		Edge_Full_Right	18.49	21.44	30	Pass	2.95
		Edge_1RB_Left	18.71	21.66	30	Pass	2.95
		Edge_1RB_Right	18.71	21.66	30	Pass	2.95
		Outer_Full	18.93	21.88	30	Pass	2.95
		Inner_Full	20.25	23.2	30	Pass	2.95
		Inner_1RB_Left	20.29	23.24	30	Pass	2.95
		Inner_1RB_Right	20.32	23.27	30	Pass	2.95
CP-OFDM 16QAM		Edge_Full_Left	18.49	21.44	30	Pass	2.95
		Edge_Full_Right	18.58	21.53	30	Pass	2.95
		Edge_1RB_Left	18.9	21.85	30	Pass	2.95
		Edge_1RB_Right	18.86	21.81	30	Pass	2.95
		Outer_Full	19.06	22.01	30	Pass	2.95
		Inner_Full	19.76	22.71	30	Pass	2.95
CP-OFDM 64QAM		Inner_1RB_Left	19.97	22.92	30	Pass	2.95
		Inner_1RB_Right	19.78	22.73	30	Pass	2.95
		Edge_Full_Left	18.02	20.97	30	Pass	2.95
		Edge_Full_Right	18.22	21.17	30	Pass	2.95
		Edge_1RB_Left	17.84	20.79	30	Pass	2.95
		Edge_1RB_Right	17.77	20.72	30	Pass	2.95
DFT-s-OFDM PI/2 BPSK	3969.99MHz	Outer_Full	18.36	21.31	30	Pass	2.95
		Inner_Full	18.39	21.34	30	Pass	2.95
		Inner_1RB_Left	17.9	20.85	30	Pass	2.95
		Inner_1RB_Right	17.91	20.86	30	Pass	2.95
		Edge_Full_Left	21.32	24.27	30	Pass	2.95
		Edge_Full_Right	21.3	24.25	30	Pass	2.95
DFT-s-OFDM QPSK		Edge_1RB_Left	21.22	24.17	30	Pass	2.95
		Edge_1RB_Right	21.25	24.2	30	Pass	2.95
		Outer_Full	21.53	24.48	30	Pass	2.95
		Inner_Full	21.91	24.86	30	Pass	2.95
		Inner_1RB_Left	21.57	24.52	30	Pass	2.95
		Inner_1RB_Right	21.62	24.57	30	Pass	2.95
		Edge_Full_Left	20.66	23.61	30	Pass	2.95
		Edge_Full_Right	20.64	23.59	30	Pass	2.95



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DFT-s-OFDM 16QAM	Edge_1RB_Left	20.48	23.43	30	Pass	2.95	
	Edge_1RB_Right	20.59	23.54	30	Pass	2.95	
	Outer_Full	21.03	23.98	30	Pass	2.95	
	Inner_Full	21.82	24.77	30	Pass	2.95	
	Inner_1RB_Left	21.63	24.58	30	Pass	2.95	
	Inner_1RB_Right	21.6	24.55	30	Pass	2.95	
	Edge_Full_Left	19.45	22.4	30	Pass	2.95	
	Edge_Full_Right	19.59	22.54	30	Pass	2.95	
	Edge_1RB_Left	19.09	22.04	30	Pass	2.95	
	Edge_1RB_Right	19.07	22.02	30	Pass	2.95	
	Outer_Full	20.11	23.06	30	Pass	2.95	
	Inner_Full	20.91	23.86	30	Pass	2.95	
DFT-s-OFDM 64QAM	Inner_1RB_Left	20.37	23.32	30	Pass	2.95	
	Inner_1RB_Right	20.37	23.32	30	Pass	2.95	
	Edge_Full_Left	19.25	22.2	30	Pass	2.95	
	Edge_Full_Right	19.27	22.22	30	Pass	2.95	
	Edge_1RB_Left	19.11	22.06	30	Pass	2.95	
	Edge_1RB_Right	19.27	22.22	30	Pass	2.95	
	Outer_Full	19.6	22.55	30	Pass	2.95	
	Inner_Full	19.29	22.24	30	Pass	2.95	
	Inner_1RB_Left	19.25	22.2	30	Pass	2.95	
	Inner_1RB_Right	19.25	22.2	30	Pass	2.95	
	CP-OFDM QPSK	Edge_Full_Left	18.46	21.41	30	Pass	2.95
		Edge_Full_Right	18.52	21.47	30	Pass	2.95
Edge_1RB_Left		18.75	21.7	30	Pass	2.95	
Edge_1RB_Right		18.72	21.67	30	Pass	2.95	
Outer_Full		19.06	22.01	30	Pass	2.95	
Inner_Full		20.31	23.26	30	Pass	2.95	
Inner_1RB_Left		20.63	23.58	30	Pass	2.95	
Inner_1RB_Right		20.57	23.52	30	Pass	2.95	
CP-OFDM 16QAM		Edge_Full_Left	18.62	21.57	30	Pass	2.95
		Edge_Full_Right	18.75	21.7	30	Pass	2.95
		Edge_1RB_Left	18.47	21.42	30	Pass	2.95



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CP-OFDM 64QAM	Edge_1RB_Right	18.57	21.52	30	Pass	2.95
	Outer_Full	19.09	22.04	30	Pass	2.95
	Inner_Full	19.84	22.79	30	Pass	2.95
	Inner_1RB_Left	19.81	22.76	30	Pass	2.95
	Inner_1RB_Right	20.12	23.07	30	Pass	2.95
	Edge_Full_Left	18.17	21.12	30	Pass	2.95
	Edge_Full_Right	18.13	21.08	30	Pass	2.95
	Edge_1RB_Left	18.33	21.28	30	Pass	2.95
	Edge_1RB_Right	18.38	21.33	30	Pass	2.95
	Outer_Full	18.58	21.53	30	Pass	2.95
	Inner_Full	18.44	21.39	30	Pass	2.95
	Inner_1RB_Left	18.28	21.23	30	Pass	2.95
	Inner_1RB_Right	18.17	21.12	30	Pass	2.95



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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	3840	Outer_Full	20	LV	4.43	0.0024	Pass
					HV	-2.66	-0.0014	Pass
				-30	NV	-7.53	-0.0040	Pass
				-20	NV	5.69	0.0030	Pass
				-10	NV	-5.57	-0.0030	Pass
				0	NV	6.4	0.0034	Pass
				10	NV	8.74	0.0046	Pass
				20	NV	-3.94	-0.0021	Pass
				30	NV	6.99	0.0037	Pass
				40	NV	-4.61	-0.0025	Pass
	50			NV	2.33	0.0012	Pass	
	CP-OFDM QPSK			20	LV	-6.38	-0.0034	Pass
					HV	-6.51	-0.0035	Pass
				-30	NV	3.33	0.0018	Pass
				-20	NV	5.76	0.0031	Pass
				-10	NV	-5.9	-0.0031	Pass
				0	NV	4.85	0.0026	Pass
				10	NV	-7.39	-0.0039	Pass
				20	NV	-9.97	-0.0053	Pass
				30	NV	2.6	0.0014	Pass
40		NV	3.59	0.0019	Pass			
50	NV	-8.51	-0.0045	Pass				
15MHz	DFT-s-OFDM PI/2 BPSK	3840	Outer_Full	20	LV	-4.87	-0.0026	Pass
					HV	3.66	0.0019	Pass
				-30	NV	-9.45	-0.0050	Pass
				-20	NV	-6.3	-0.0034	Pass
				-10	NV	3.57	0.0019	Pass
				0	NV	-2.27	-0.0012	Pass
10	NV	-3.4	-0.0018	Pass				



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				20	NV	2.39	0.0013	Pass			
				30	NV	-8.88	-0.0047	Pass			
				40	NV	-5.22	-0.0028	Pass			
				50	NV	-6.65	-0.0035	Pass			
	CP-OFDM QPSK			20	LV	-3.29	-0.0018	Pass			
					HV	8	0.0043	Pass			
					-30	NV	-4.64	-0.0025	Pass		
					-20	NV	-8.51	-0.0045	Pass		
					-10	NV	-4.12	-0.0022	Pass		
					0	NV	-6.06	-0.0032	Pass		
					10	NV	-5.91	-0.0031	Pass		
					20	NV	3.96	0.0021	Pass		
					30	NV	-7.98	-0.0042	Pass		
					40	NV	2.25	0.0012	Pass		
					50	NV	-5.14	-0.0027	Pass		
20MHz		DFT-s-OFDM PI/2 BPSK			20	LV	9.88	0.0053	Pass		
						HV	-4.78	-0.0025	Pass		
							-30	NV	-6.81	-0.0036	Pass
							-20	NV	-7.3	-0.0039	Pass
						-10	NV	-4.15	-0.0022	Pass	
						0	NV	-4.76	-0.0025	Pass	
						10	NV	2.66	0.0014	Pass	
						20	NV	-8.7	-0.0046	Pass	
						30	NV	7.91	0.0042	Pass	
		CP-OFDM QPSK			20	LV	2.64	0.0014	Pass		
						HV	3.34	0.0018	Pass		
						-30	NV	-3.4	-0.0018	Pass	
						-20	NV	-9.06	-0.0048	Pass	
						-10	NV	-5.71	-0.0030	Pass	
						0	NV	3.9	0.0021	Pass	
						10	NV	8.36	0.0044	Pass	
						20	NV	7.13	0.0038	Pass	



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				30	NV	-7.84	-0.0042	Pass
				40	NV	-5.15	-0.0027	Pass
				50	NV	-4.44	-0.0024	Pass



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Field Strength of Spurious Radiation

NR Band n77-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	-49.85	-13	-36.85	-56.79	4.19	11.13	Horizontal	Pass
11130.03	-44.72	-13	-31.72	-52.92	5.07	13.27	Horizontal	Pass
14840.04	-40.74	-13	-27.74	-49.97	5.19	14.42	Horizontal	Pass
7420.02	-50.03	-13	-37.03	-56.97	4.19	11.13	Vertical	Pass
11130.03	-47	-13	-34	-55.2	5.07	13.27	Vertical	Pass
14840.04	-40.07	-13	-27.07	-49.3	5.19	14.42	Vertical	Pass

NR Band n77-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	-50.08	-13	-37.08	-57.605	4.22	11.74	Horizontal	Pass
11520	-45.31	-13	-32.31	-53.49	5.06	13.24	Horizontal	Pass
15360	-40.19	-13	-27.19	-49.15	5.56	14.52	Horizontal	Pass
7680	-48.81	-13	-35.81	-56.335	4.22	11.74	Vertical	Pass
11520	-44.96	-13	-31.96	-53.14	5.06	13.24	Vertical	Pass
15360	-40.53	-13	-27.53	-49.49	5.56	14.52	Vertical	Pass

NR Band n77-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	-48.57	-13	-35.57	-56.095	4.22	11.74	Horizontal	Pass
11909.97	-45.87	-13	-32.87	-54.05	5.06	13.24	Horizontal	Pass
15879.96	-40.04	-13	-27.04	-48.68	5.61	14.25	Horizontal	Pass
7939.98	-49.37	-13	-36.37	-56.895	4.22	11.74	Vertical	Pass
11909.97	-45.23	-13	-32.23	-53.41	5.06	13.24	Vertical	Pass
15879.96	-39.93	-13	-26.93	-48.57	5.61	14.25	Vertical	Pass

---End of Attachment---



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