

DFT-s-OFDM 64 QAM	3624.99	Outer_Full	50	NV	-3.90	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			20	LV	-7.30	-0.0020	≥ -2.5 & ≤ 2.5	Pass
				HV	-5.10	-0.0014	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-5.30	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-6.60	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-8.80	-0.0024	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-6.10	-0.0017	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-7.10	-0.0020	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-8.30	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-5.50	-0.0015	≥ -2.5 & ≤ 2.5	Pass
40	NV	-6.30	-0.0017	≥ -2.5 & ≤ 2.5	Pass			
50	NV	-7.80	-0.0022	≥ -2.5 & ≤ 2.5	Pass			
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	2.20	0.0006	≥ -2.5 & ≤ 2.5	Pass
				HV	-3.70	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-10.10	-0.0028	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-7.00	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-5.30	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-4.00	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-7.90	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-3.50	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-5.00	-0.0014	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-5.30	-0.0015	≥ -2.5 & ≤ 2.5	Pass
50	NV	-6.00	-0.0017	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-5.00	-0.0014	≥ -2.5 & ≤ 2.5	Pass
				HV	-6.90	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-4.60	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-2.10	-0.0006	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-6.10	-0.0017	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-8.20	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-8.40	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-4.40	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-3.40	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-9.40	-0.0026	≥ -2.5 & ≤ 2.5	Pass
50	NV	-5.80	-0.0016	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-5.30	-0.0015	≥ -2.5 & ≤ 2.5	Pass
				HV	-7.00	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-1.20	-0.0003	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-5.80	-0.0016	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-5.20	-0.0014	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-3.20	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-5.70	-0.0016	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-3.70	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-5.90	-0.0016	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-5.90	-0.0016	≥ -2.5 & ≤ 2.5	Pass
50	NV	-4.60	-0.0013	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-7.70	-0.0021	≥ -2.5 & ≤ 2.5	Pass
				HV	-8.00	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-2.40	-0.0007	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-2.80	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-3.10	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-8.00	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-8.20	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-6.00	-0.0017	≥ -2.5 & ≤ 2.5	Pass
30	NV	-4.70	-0.0013	≥ -2.5 & ≤ 2.5	Pass			



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CP-OFDM 256 QAM	3624.99	Outer_Full	40	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			50	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
			20	LV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
			0	NV	-4.10	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-4.10	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-1.90	-0.0005	>=-2.5 & <=2.5	Pass
			30	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-2.50	-0.0007	>=-2.5 & <=2.5	Pass
			50	NV	-2.50	-0.0007	>=-2.5 & <=2.5	Pass

8.14 30k_SISO_50MHz

8.14.1 Test Result

5G NR n78d SCS=30kHz SISO 50MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
				HV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-1.80	-0.0005	>=-2.5 & <=2.5	Pass
			-20	NV	-3.50	-0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			20	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
			30	NV	-2.50	-0.0007	>=-2.5 & <=2.5	Pass
			40	NV	3.60	0.0010	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
				HV	-3.80	-0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	-2.20	-0.0006	>=-2.5 & <=2.5	Pass
			-20	NV	-1.10	-0.0003	>=-2.5 & <=2.5	Pass
			-10	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
			10	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-2.30	-0.0006	>=-2.5 & <=2.5	Pass
			40	NV	-2.00	-0.0006	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
				HV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-7.40	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
			0	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
			30	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
50	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass			



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DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-5.50	-0.0015	>=-2.5 & <=2.5	Pass
				HV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	-5.50	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-3.30	-0.0009	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-2.60	-0.0007	>=-2.5 & <=2.5	Pass
				HV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-8.60	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-8.00	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-5.10	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
				HV	-5.50	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-7.40	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-1.60	-0.0004	>=-2.5 & <=2.5	Pass
			10	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
40	NV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass			



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CP-OFDM 256 QAM	3624.99	Outer_Full	50	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			20	LV	-3.00	-0.0008	>=-2.5 & <=2.5	Pass
				HV	-5.10	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-7.40	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
			30	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-11.60	-0.0032	>=-2.5 & <=2.5	Pass
50	NV	-8.70	-0.0024	>=-2.5 & <=2.5	Pass			

8.15 30k_SISO_60MHz

8.15.1 Test Result

5G NR n78d SCS=30kHz SISO 60MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
				HV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-2.30	-0.0006	>=-2.5 & <=2.5	Pass
			0	NV	-1.00	-0.0003	>=-2.5 & <=2.5	Pass
			10	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			20	NV	-2.50	-0.0007	>=-2.5 & <=2.5	Pass
			30	NV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
			40	NV	-2.60	-0.0007	>=-2.5 & <=2.5	Pass
			50	NV	-4.60	-0.0013	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-4.40	-0.0012	>=-2.5 & <=2.5	Pass
				HV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-1.90	-0.0005	>=-2.5 & <=2.5	Pass
			10	NV	-5.50	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			30	NV	-5.50	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
			50	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-6.10	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-9.80	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-9.30	-0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	-8.00	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-8.30	-0.0023	>=-2.5 & <=2.5	Pass



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DFT-s-OFDM 64 QAM	3624.99	Outer_Full	50	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
			20	LV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-3.80	-0.0010	>=-2.5 & <=2.5	Pass
			30	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	-2.00	-0.0006	>=-2.5 & <=2.5	Pass
			0	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
			30	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-2.50	-0.0007	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
				HV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-5.10	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-7.40	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	-2.30	-0.0006	>=-2.5 & <=2.5	Pass
			10	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-4.30	-0.0012	>=-2.5 & <=2.5	Pass
				HV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
			-30	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
			0	NV	-2.30	-0.0006	>=-2.5 & <=2.5	Pass
			10	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-8.70	-0.0024	>=-2.5 & <=2.5	Pass
30	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass			



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			40	NV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass			
			50	NV	-3.50	-0.0010	>=-2.5 & <=2.5	Pass			
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass			
				HV	-4.10	-0.0011	>=-2.5 & <=2.5	Pass			
						-30	NV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass
						-20	NV	-4.10	-0.0011	>=-2.5 & <=2.5	Pass
						-10	NV	-10.10	-0.0028	>=-2.5 & <=2.5	Pass
						0	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
						10	NV	-4.30	-0.0012	>=-2.5 & <=2.5	Pass
						20	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
						30	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
						40	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
						50	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass

8.16 30k_SISO_70MHz

8.16.1 Test Result

5G NR n78d SCS=30kHz SISO 70MHz											
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict			
						Result	Limit				
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-1.80	-0.0005	>=-2.5 & <=2.5	Pass			
				HV	1.20	0.0003	>=-2.5 & <=2.5	Pass			
						-30	NV	-3.00	-0.0008	>=-2.5 & <=2.5	Pass
						-20	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
						-10	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
						0	NV	-2.70	-0.0007	>=-2.5 & <=2.5	Pass
						10	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
						20	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
						30	NV	-3.80	-0.0010	>=-2.5 & <=2.5	Pass
						40	NV	-2.10	-0.0006	>=-2.5 & <=2.5	Pass
			50	NV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass			
				HV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass			
						-30	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
						-20	NV	-3.10	-0.0009	>=-2.5 & <=2.5	Pass
						-10	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
						0	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
						10	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
						20	NV	-1.80	-0.0005	>=-2.5 & <=2.5	Pass
						30	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
						40	NV	-3.30	-0.0009	>=-2.5 & <=2.5	Pass
			50	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-4.30	-0.0012	>=-2.5 & <=2.5	Pass			
				HV	-4.30	-0.0012	>=-2.5 & <=2.5	Pass			
						-30	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
						-20	NV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
						-10	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
						0	NV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
						10	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-4.30	-0.0012	>=-2.5 & <=2.5	Pass			
			30	NV	-5.50	-0.0015	>=-2.5 & <=2.5	Pass			



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			40	NV	-5.90	-0.0016	≥ -2.5 & ≤ 2.5	Pass			
			50	NV	-5.20	-0.0014	≥ -2.5 & ≤ 2.5	Pass			
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-4.50	-0.0012	≥ -2.5 & ≤ 2.5	Pass			
				HV	-7.00	-0.0019	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-3.70	-0.0010	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-4.90	-0.0014	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-4.10	-0.0011	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-2.80	-0.0008	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-5.30	-0.0015	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-4.20	-0.0012	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-6.20	-0.0017	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-5.40	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-5.80	-0.0016	≥ -2.5 & ≤ 2.5	Pass			
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-6.00	-0.0017	≥ -2.5 & ≤ 2.5	Pass			
				HV	-9.10	-0.0025	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-1.60	-0.0004	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-3.20	-0.0009	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-6.00	-0.0017	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-9.80	-0.0027	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-6.20	-0.0017	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-5.30	-0.0015	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-5.20	-0.0014	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-8.70	-0.0024	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-3.50	-0.0010	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-3.70	-0.0010	≥ -2.5 & ≤ 2.5	Pass			
				HV	-5.20	-0.0014	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-2.80	-0.0008	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-4.90	-0.0014	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-3.60	-0.0010	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-5.10	-0.0014	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-6.10	-0.0017	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-5.60	-0.0015	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-5.90	-0.0016	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-5.70	-0.0016	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-4.90	-0.0014	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-4.10	-0.0011	≥ -2.5 & ≤ 2.5	Pass			
				HV	-3.30	-0.0009	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-4.60	-0.0013	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-8.20	-0.0023	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-8.30	-0.0023	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-9.40	-0.0026	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-3.70	-0.0010	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-6.50	-0.0018	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-3.90	-0.0011	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-6.00	-0.0017	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-5.70	-0.0016	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-3.50	-0.0010	≥ -2.5 & ≤ 2.5	Pass			
				HV	-7.30	-0.0020	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-10.10	-0.0028	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-3.50	-0.0010	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-3.70	-0.0010	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-7.20	-0.0020	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-5.20	-0.0014	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-7.60	-0.0021	≥ -2.5 & ≤ 2.5	Pass			



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CP-OFDM 256 QAM	3624.99	Outer_Full	30	NV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-2.60	-0.0007	>=-2.5 & <=2.5	Pass
			50	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			20	LV	-4.40	-0.0012	>=-2.5 & <=2.5	Pass
				HV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-3.00	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	-5.10	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-5.10	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-3.80	-0.0010	>=-2.5 & <=2.5	Pass
40	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass			
50	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass			

8.17 30k_SISO_80MHz

8.17.1 Test Result

5G NR n78d SCS=30kHz SISO 80MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-2.70	-0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	-4.60	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
			0	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-2.60	-0.0007	>=-2.5 & <=2.5	Pass
			20	NV	-7.40	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	-3.50	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	-3.80	-0.0010	>=-2.5 & <=2.5	Pass
50	NV	-2.70	-0.0007	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	1.00	0.0003	>=-2.5 & <=2.5	Pass
				HV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	-2.20	-0.0006	>=-2.5 & <=2.5	Pass
			-10	NV	2.40	0.0007	>=-2.5 & <=2.5	Pass
			0	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-4.60	-0.0013	>=-2.5 & <=2.5	Pass
			30	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
			40	NV	1.20	0.0003	>=-2.5 & <=2.5	Pass
50	NV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-3.50	-0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
20	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass			



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			30	NV	-2.70	-0.0007	>=-2.5 & <=2.5	Pass
			40	NV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
			50	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-2.40	-0.0007	>=-2.5 & <=2.5	Pass
				HV	-7.60	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-9.60	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	3.10	0.0009	>=-2.5 & <=2.5	Pass
			40	NV	-1.80	-0.0005	>=-2.5 & <=2.5	Pass
			50	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-3.00	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-4.30	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-4.60	-0.0013	>=-2.5 & <=2.5	Pass
			30	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
40	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass			
50	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	-7.40	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-6.10	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-4.40	-0.0012	>=-2.5 & <=2.5	Pass
40	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass			
50	NV	-4.60	-0.0013	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
				HV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			30	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
40	NV	-6.10	-0.0017	>=-2.5 & <=2.5	Pass			
50	NV	-1.40	-0.0004	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-2.40	-0.0007	>=-2.5 & <=2.5	Pass
			0	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
10	NV	-4.10	-0.0011	>=-2.5 & <=2.5	Pass			



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			20	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
			50	NV	-3.80	-0.0010	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-4.30	-0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	2.70	0.0007	>=-2.5 & <=2.5	Pass
			0	NV	-1.50	-0.0004	>=-2.5 & <=2.5	Pass
			10	NV	-4.30	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			30	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
			40	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			50	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass

8.18 30k_SISO_90MHz

8.18.1 Test Result

5G NR n78d SCS=30kHz SISO 90MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-2.60	-0.0007	>=-2.5 & <=2.5	Pass
			-30	NV	-1.20	-0.0003	>=-2.5 & <=2.5	Pass
			-20	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-1.50	-0.0004	>=-2.5 & <=2.5	Pass
			10	NV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
			40	NV	2.20	0.0006	>=-2.5 & <=2.5	Pass
			50	NV	-4.40	-0.0012	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	2.10	0.0006	>=-2.5 & <=2.5	Pass
				HV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	-4.30	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	1.30	0.0004	>=-2.5 & <=2.5	Pass
			20	NV	-2.00	-0.0006	>=-2.5 & <=2.5	Pass
			30	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-2.30	-0.0006	>=-2.5 & <=2.5	Pass
			50	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-3.50	-0.0010	>=-2.5 & <=2.5	Pass
				HV	-9.80	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-2.40	-0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass



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			20	NV	-8.70	-0.0024	>=-2.5 & <=2.5	Pass			
			30	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass			
			40	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass			
			50	NV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-8.70	-0.0024	>=-2.5 & <=2.5	Pass			
				HV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass			
						-30	NV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
						-20	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
						-10	NV	-3.80	-0.0010	>=-2.5 & <=2.5	Pass
						0	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
						10	NV	-5.10	-0.0014	>=-2.5 & <=2.5	Pass
						20	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
						30	NV	-9.20	-0.0025	>=-2.5 & <=2.5	Pass
						40	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			50	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-4.60	-0.0013	>=-2.5 & <=2.5	Pass			
				HV	-5.50	-0.0015	>=-2.5 & <=2.5	Pass			
						-30	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
						-20	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
						-10	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
						0	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
						10	NV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
						20	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
						30	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
						40	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			50	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-3.10	-0.0009	>=-2.5 & <=2.5	Pass			
				HV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass			
						-30	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
						-20	NV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass
						-10	NV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass
						0	NV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
						10	NV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
						20	NV	-6.10	-0.0017	>=-2.5 & <=2.5	Pass
						30	NV	-3.30	-0.0009	>=-2.5 & <=2.5	Pass
						40	NV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
			50	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass			
				HV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass			
						-30	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
						-20	NV	-1.20	-0.0003	>=-2.5 & <=2.5	Pass
						-10	NV	-2.00	-0.0006	>=-2.5 & <=2.5	Pass
						0	NV	-3.00	-0.0008	>=-2.5 & <=2.5	Pass
						10	NV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass
						20	NV	-2.70	-0.0007	>=-2.5 & <=2.5	Pass
						30	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
						40	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
			50	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass			
				HV	2.70	0.0007	>=-2.5 & <=2.5	Pass			
						-30	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
						-20	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
						-10	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
			0	NV	-2.60	-0.0007	>=-2.5 & <=2.5	Pass			



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			10	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	-3.30	-0.0009	>=-2.5 & <=2.5	Pass
			30	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			50	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
				HV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-1.60	-0.0004	>=-2.5 & <=2.5	Pass
			-20	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-4.60	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-4.40	-0.0012	>=-2.5 & <=2.5	Pass
			40	NV	-4.10	-0.0011	>=-2.5 & <=2.5	Pass
50	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass			

8.19 30k_SISO_100MHz

8.19.1 Test Result

5G NR n78d SCS=30kHz SISO 100MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
				HV	-3.80	-0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-3.00	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	-2.40	-0.0007	>=-2.5 & <=2.5	Pass
			10	NV	-4.40	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	0.90	0.0002	>=-2.5 & <=2.5	Pass
50	NV	-3.50	-0.0010	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-1.40	-0.0004	>=-2.5 & <=2.5	Pass
				HV	-4.10	-0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	2.70	0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	-2.50	-0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-3.00	-0.0008	>=-2.5 & <=2.5	Pass
			30	NV	-4.40	-0.0012	>=-2.5 & <=2.5	Pass
			40	NV	-4.10	-0.0011	>=-2.5 & <=2.5	Pass
50	NV	-3.00	-0.0008	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
				HV	-4.60	-0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	-9.10	-0.0025	>=-2.5 & <=2.5	Pass
0	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass			



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			10	NV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass			
			20	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass			
			30	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass			
			40	NV	-3.80	-0.0010	>=-2.5 & <=2.5	Pass			
			50	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-3.30	-0.0009	>=-2.5 & <=2.5	Pass			
				HV	-9.70	-0.0027	>=-2.5 & <=2.5	Pass			
						-30	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
						-20	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
						-10	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
						0	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
						10	NV	-9.10	-0.0025	>=-2.5 & <=2.5	Pass
						20	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
						30	NV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass
						40	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
						50	NV	-5.10	-0.0014	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass			
				HV	-7.40	-0.0020	>=-2.5 & <=2.5	Pass			
						-30	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
						-20	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
						-10	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
						0	NV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
						10	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
						20	NV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
						30	NV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
						40	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
						50	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-4.60	-0.0013	>=-2.5 & <=2.5	Pass			
				HV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass			
						-30	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
						-20	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
						-10	NV	-4.40	-0.0012	>=-2.5 & <=2.5	Pass
						0	NV	-3.50	-0.0010	>=-2.5 & <=2.5	Pass
						10	NV	-1.80	-0.0005	>=-2.5 & <=2.5	Pass
						20	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
						30	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
						40	NV	-5.10	-0.0014	>=-2.5 & <=2.5	Pass
						50	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass			
				HV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass			
						-30	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
						-20	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
						-10	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
						0	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
						10	NV	-8.00	-0.0022	>=-2.5 & <=2.5	Pass
						20	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
						30	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
						40	NV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
						50	NV	-3.80	-0.0010	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-5.10	-0.0014	>=-2.5 & <=2.5	Pass			
				HV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass			
						-30	NV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
						-20	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass			



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			0	NV	-2.30	-0.0006	≥ -2.5 & ≤ 2.5	Pass			
			10	NV	-3.10	-0.0009	≥ -2.5 & ≤ 2.5	Pass			
			20	NV	-2.30	-0.0006	≥ -2.5 & ≤ 2.5	Pass			
			30	NV	-5.20	-0.0014	≥ -2.5 & ≤ 2.5	Pass			
			40	NV	-4.40	-0.0012	≥ -2.5 & ≤ 2.5	Pass			
			50	NV	-7.10	-0.0020	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-2.90	-0.0008	≥ -2.5 & ≤ 2.5	Pass			
				HV	-6.80	-0.0019	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-4.50	-0.0012	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-5.70	-0.0016	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-7.00	-0.0019	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-6.10	-0.0017	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-5.30	-0.0015	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-4.90	-0.0014	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-2.20	-0.0006	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-4.80	-0.0013	≥ -2.5 & ≤ 2.5	Pass
						50	NV	-7.10	-0.0020	≥ -2.5 & ≤ 2.5	Pass



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9. n78e Frequency Stability

9.1 15k_SISO_10MHz

9.1.1 Test Result

5G NR n78e SCS=15kHz SISO 10MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3499.995	Outer_Full	20	LV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
				HV	-3.30	-0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	-1.90	-0.0005	>=-2.5 & <=2.5	Pass
				NV	-4.50	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-1.90	-0.0005	>=-2.5 & <=2.5	Pass
				NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-10.90	-0.0031	>=-2.5 & <=2.5	Pass
				NV	-10.90	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
				NV	-3.50	-0.0010	>=-2.5 & <=2.5	Pass
50	NV	-2.20	-0.0006	>=-2.5 & <=2.5	Pass			
	NV	-2.20	-0.0006	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3499.995	Outer_Full	20	LV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
				NV	-11.60	-0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
				NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
				NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-4.50	-0.0013	>=-2.5 & <=2.5	Pass
				NV	-2.60	-0.0007	>=-2.5 & <=2.5	Pass
50	NV	-3.10	-0.0009	>=-2.5 & <=2.5	Pass			
	NV	-3.10	-0.0009	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3499.995	Outer_Full	20	LV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
			-30	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
				NV	-3.80	-0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
				NV	-4.80	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-1.50	-0.0004	>=-2.5 & <=2.5	Pass
				NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
			30	NV	-2.50	-0.0007	>=-2.5 & <=2.5	Pass
				NV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
50	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass			
	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3499.995	Outer_Full	20	LV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-8.60	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-8.40	-0.0024	>=-2.5 & <=2.5	Pass
				NV	-8.40	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass
				NV	-7.40	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
				NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
				NV	-8.60	-0.0025	>=-2.5 & <=2.5	Pass
50	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass			
	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass			



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DFT-s-OFDM 256 QAM	3499.995	Outer_Full	20	LV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-11.30	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
			20	NV	-9.30	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3499.995	Outer_Full	20	LV	-4.60	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-3.40	-0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	-2.00	-0.0006	>=-2.5 & <=2.5	Pass
			-20	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
			-10	NV	-1.40	-0.0004	>=-2.5 & <=2.5	Pass
			0	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-5.20	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
			30	NV	-4.30	-0.0012	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3499.995	Outer_Full	20	LV	-3.10	-0.0009	>=-2.5 & <=2.5	Pass
				HV	-6.20	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-3.00	-0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	-2.20	-0.0006	>=-2.5 & <=2.5	Pass
			-10	NV	-3.30	-0.0009	>=-2.5 & <=2.5	Pass
			0	NV	-4.30	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
			20	NV	-2.60	-0.0007	>=-2.5 & <=2.5	Pass
			30	NV	-3.70	-0.0011	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3499.995	Outer_Full	20	LV	-4.40	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-0.80	-0.0002	>=-2.5 & <=2.5	Pass
			-30	NV	-4.10	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-5.10	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-1.90	-0.0005	>=-2.5 & <=2.5	Pass
			0	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
			10	NV	-1.40	-0.0004	>=-2.5 & <=2.5	Pass
			20	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			30	NV	-5.10	-0.0015	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3499.995	Outer_Full	20	LV	-1.00	-0.0003	>=-2.5 & <=2.5	Pass
				HV	-2.40	-0.0007	>=-2.5 & <=2.5	Pass
			-30	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	-3.00	-0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-4.50	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
			30	NV	-1.90	-0.0005	>=-2.5 & <=2.5	Pass
40	NV	-2.20	-0.0006	>=-2.5 & <=2.5	Pass			



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			50	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
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9.2 15k_SISO_15MHz

9.2.1 Test Result

5G NR n78e SCS=15kHz SISO 15MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3499.995	Outer_Full	20	LV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
				HV	-1.40	-0.0004	>=-2.5 & <=2.5	Pass
			-30	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	-2.50	-0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	-3.50	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-1.30	-0.0004	>=-2.5 & <=2.5	Pass
			10	NV	0.50	0.0001	>=-2.5 & <=2.5	Pass
			20	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			30	NV	-3.00	-0.0009	>=-2.5 & <=2.5	Pass
			40	NV	-10.90	-0.0031	>=-2.5 & <=2.5	Pass
50	NV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3499.995	Outer_Full	20	LV	-0.90	-0.0003	>=-2.5 & <=2.5	Pass
				HV	-2.50	-0.0007	>=-2.5 & <=2.5	Pass
			-30	NV	-1.40	-0.0004	>=-2.5 & <=2.5	Pass
			-20	NV	-3.50	-0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-10.90	-0.0031	>=-2.5 & <=2.5	Pass
			20	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
50	NV	-7.60	-0.0022	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3499.995	Outer_Full	20	LV	-12.00	-0.0034	>=-2.5 & <=2.5	Pass
				HV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-12.10	-0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			0	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-3.70	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	1.20	0.0003	>=-2.5 & <=2.5	Pass
			30	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-0.90	-0.0003	>=-2.5 & <=2.5	Pass
50	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3499.995	Outer_Full	20	LV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
				HV	-6.60	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-5.10	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-2.30	-0.0007	>=-2.5 & <=2.5	Pass
			0	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-4.50	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-3.10	-0.0009	>=-2.5 & <=2.5	Pass
30	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass			
40	NV	-2.60	-0.0007	>=-2.5 & <=2.5	Pass			



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DFT-s-OFDM 256 QAM	3499.995	Outer_Full	50	NV	-1.60	-0.0005	≥ -2.5 & ≤ 2.5	Pass
			20	LV	-9.40	-0.0027	≥ -2.5 & ≤ 2.5	Pass
				HV	-10.20	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-8.90	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-10.50	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-7.90	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-6.80	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-7.90	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-7.30	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-9.90	-0.0028	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM QPSK	3499.995	Outer_Full	20	LV	-2.90	-0.0008	≥ -2.5 & ≤ 2.5	Pass
				HV	-4.00	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-3.90	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-3.40	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-0.80	-0.0002	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-4.10	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-3.70	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-5.20	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-4.60	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-3.40	-0.0010	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 16 QAM	3499.995	Outer_Full	20	LV	-2.30	-0.0007	≥ -2.5 & ≤ 2.5	Pass
				HV	-2.80	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-1.60	-0.0005	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-5.00	-0.0014	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-5.40	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-3.50	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-2.70	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-4.90	-0.0014	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-2.80	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-3.10	-0.0009	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 64 QAM	3499.995	Outer_Full	20	LV	-2.80	-0.0008	≥ -2.5 & ≤ 2.5	Pass
				HV	-3.80	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-5.30	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-3.60	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-4.20	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-1.90	-0.0005	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-1.70	-0.0005	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-2.10	-0.0006	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-3.90	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-5.20	-0.0015	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 256 QAM	3499.995	Outer_Full	20	LV	-4.50	-0.0013	≥ -2.5 & ≤ 2.5	Pass
				HV	-1.20	-0.0003	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-5.10	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-3.70	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-3.70	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-2.50	-0.0007	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-2.80	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-3.10	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-1.60	-0.0005	≥ -2.5 & ≤ 2.5	Pass



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			40	NV	-1.60	-0.0005	>=-2.5 & <=2.5	Pass
			50	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass

9.3 15k_SISO_20MHz

9.3.1 Test Result

5G NR n78e SCS=15kHz SISO 20MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3499.995	Outer_Full	20	LV	-2.70	-0.0008	>=-2.5 & <=2.5	Pass
				HV	-3.10	-0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	-3.00	-0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-5.50	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-2.70	-0.0008	>=-2.5 & <=2.5	Pass
			20	NV	-7.70	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
			40	NV	-12.00	-0.0034	>=-2.5 & <=2.5	Pass
50	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3499.995	Outer_Full	20	LV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
				HV	-4.80	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
			-10	NV	-2.50	-0.0007	>=-2.5 & <=2.5	Pass
			0	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
			30	NV	-2.70	-0.0008	>=-2.5 & <=2.5	Pass
			40	NV	-2.00	-0.0006	>=-2.5 & <=2.5	Pass
50	NV	-4.40	-0.0013	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3499.995	Outer_Full	20	LV	-7.30	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-12.40	-0.0035	>=-2.5 & <=2.5	Pass
			-20	NV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-7.30	-0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-10.70	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass
50	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3499.995	Outer_Full	20	LV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
				HV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
30	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass			



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			40	NV	-8.30	-0.0024	≥ -2.5 & ≤ 2.5	Pass			
			50	NV	-8.80	-0.0025	≥ -2.5 & ≤ 2.5	Pass			
DFT-s-OFDM 256 QAM	3499.995	Outer_Full	20	LV	-8.00	-0.0023	≥ -2.5 & ≤ 2.5	Pass			
				HV	-9.50	-0.0027	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-7.80	-0.0022	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-9.50	-0.0027	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-8.80	-0.0025	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-11.10	-0.0032	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-9.70	-0.0028	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-8.30	-0.0024	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-8.90	-0.0025	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-9.30	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-10.00	-0.0029	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM QPSK	3499.995	Outer_Full	20	LV	-2.90	-0.0008	≥ -2.5 & ≤ 2.5	Pass			
				HV	-4.20	-0.0012	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-3.00	-0.0009	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-3.00	-0.0009	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-3.30	-0.0009	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-3.80	-0.0011	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-5.10	-0.0015	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-4.30	-0.0012	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-3.80	-0.0011	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-1.80	-0.0005	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-2.10	-0.0006	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 16 QAM	3499.995	Outer_Full	20	LV	-1.90	-0.0005	≥ -2.5 & ≤ 2.5	Pass			
				HV	-4.70	-0.0013	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-3.60	-0.0010	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-2.80	-0.0008	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-3.90	-0.0011	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-2.90	-0.0008	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-2.80	-0.0008	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-6.40	-0.0018	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-1.50	-0.0004	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-5.10	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-1.70	-0.0005	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 64 QAM	3499.995	Outer_Full	20	LV	-3.90	-0.0011	≥ -2.5 & ≤ 2.5	Pass			
				HV	-4.60	-0.0013	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-4.00	-0.0011	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-1.70	-0.0005	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-5.20	-0.0015	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-4.10	-0.0012	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-4.40	-0.0013	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-2.70	-0.0008	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-3.50	-0.0010	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-2.50	-0.0007	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-5.40	-0.0015	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 256 QAM	3499.995	Outer_Full	20	LV	-9.40	-0.0027	≥ -2.5 & ≤ 2.5	Pass			
				HV	-10.70	-0.0031	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-7.30	-0.0021	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-10.40	-0.0030	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-8.80	-0.0025	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-8.70	-0.0025	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-7.20	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-9.70	-0.0028	≥ -2.5 & ≤ 2.5	Pass			



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			30	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
			40	NV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass
			50	NV	-11.30	-0.0032	>=-2.5 & <=2.5	Pass

9.4 15k_SISO_25MHz

9.4.1 Test Result

5G NR n78e SCS=15kHz SISO 25MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3499.995	Outer_Full	20	LV	-1.20	-0.0003	>=-2.5 & <=2.5	Pass
				HV	-3.30	-0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	-3.10	-0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	-5.60	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	-4.80	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-1.40	-0.0004	>=-2.5 & <=2.5	Pass
			20	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
50	NV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3499.995	Outer_Full	20	LV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-13.10	-0.0037	>=-2.5 & <=2.5	Pass
			20	NV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-10.70	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
50	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3499.995	Outer_Full	20	LV	-4.40	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-1.80	-0.0005	>=-2.5 & <=2.5	Pass
			-30	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-2.20	-0.0006	>=-2.5 & <=2.5	Pass
			-10	NV	-1.20	-0.0003	>=-2.5 & <=2.5	Pass
			0	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-3.70	-0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
50	NV	-3.50	-0.0010	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3499.995	Outer_Full	20	LV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
				HV	-3.10	-0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-1.40	-0.0004	>=-2.5 & <=2.5	Pass
			-10	NV	-3.40	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-4.80	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
			20	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass



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			30	NV	-5.00	-0.0014	≥ -2.5 & ≤ 2.5	Pass			
			40	NV	-4.70	-0.0013	≥ -2.5 & ≤ 2.5	Pass			
			50	NV	-2.80	-0.0008	≥ -2.5 & ≤ 2.5	Pass			
DFT-s-OFDM 256 QAM	3499.995	Outer_Full	20	LV	-5.80	-0.0017	≥ -2.5 & ≤ 2.5	Pass			
				HV	-2.50	-0.0007	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-2.90	-0.0008	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-0.60	-0.0002	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-2.10	-0.0006	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-4.10	-0.0012	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-3.60	-0.0010	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-2.50	-0.0007	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-3.80	-0.0011	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-1.90	-0.0005	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-3.10	-0.0009	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM QPSK	3499.995	Outer_Full	20	LV	-7.00	-0.0020	≥ -2.5 & ≤ 2.5	Pass			
				HV	-10.40	-0.0030	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-12.80	-0.0037	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-12.00	-0.0034	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-10.20	-0.0029	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-7.90	-0.0023	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-10.10	-0.0029	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-12.20	-0.0035	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-10.10	-0.0029	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-6.70	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-10.00	-0.0029	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 16 QAM	3499.995	Outer_Full	20	LV	-9.80	-0.0028	≥ -2.5 & ≤ 2.5	Pass			
				HV	-13.00	-0.0037	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-9.80	-0.0028	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-10.10	-0.0029	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-8.90	-0.0025	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-8.70	-0.0025	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-9.80	-0.0028	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-10.00	-0.0029	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-8.50	-0.0024	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-10.50	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-8.40	-0.0024	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 64 QAM	3499.995	Outer_Full	20	LV	-8.90	-0.0025	≥ -2.5 & ≤ 2.5	Pass			
				HV	-11.20	-0.0032	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-8.30	-0.0024	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-7.50	-0.0021	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-10.40	-0.0030	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-11.80	-0.0034	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-10.50	-0.0030	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-8.60	-0.0025	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-10.70	-0.0031	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-10.30	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-13.90	-0.0040	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 256 QAM	3499.995	Outer_Full	20	LV	-12.10	-0.0035	≥ -2.5 & ≤ 2.5	Pass			
				HV	-9.70	-0.0028	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-9.20	-0.0026	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-11.30	-0.0032	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-9.50	-0.0027	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-9.50	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-11.00	-0.0031	≥ -2.5 & ≤ 2.5	Pass			



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			20	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
			40	NV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
			50	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass

9.5 15k_SISO_30MHz

9.5.1 Test Result

5G NR n78e SCS=15kHz SISO 30MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3499.995	Outer_Full	20	LV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-2.70	-0.0008	>=-2.5 & <=2.5	Pass
			30	NV	-3.50	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	-4.50	-0.0013	>=-2.5 & <=2.5	Pass
50	NV	-4.60	-0.0013	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3499.995	Outer_Full	20	LV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
				HV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	-3.80	-0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-2.30	-0.0007	>=-2.5 & <=2.5	Pass
			10	NV	-1.70	-0.0005	>=-2.5 & <=2.5	Pass
			20	NV	-2.70	-0.0008	>=-2.5 & <=2.5	Pass
			30	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	-3.50	-0.0010	>=-2.5 & <=2.5	Pass
50	NV	-3.70	-0.0011	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3499.995	Outer_Full	20	LV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-9.30	-0.0027	>=-2.5 & <=2.5	Pass
			10	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-8.10	-0.0023	>=-2.5 & <=2.5	Pass
50	NV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3499.995	Outer_Full	20	LV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-10.90	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
10	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass			



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			20	NV	-10.80	-0.0031	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-10.30	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-10.40	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-9.20	-0.0026	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 256 QAM	3499.995	Outer_Full	20	LV	-9.90	-0.0028	≥ -2.5 & ≤ 2.5	Pass
				HV	-6.90	-0.0020	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-9.40	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-12.20	-0.0035	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-10.90	-0.0031	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-8.00	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-9.20	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-10.70	-0.0031	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-9.10	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-7.50	-0.0021	≥ -2.5 & ≤ 2.5	Pass
50	NV	-7.10	-0.0020	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM QPSK	3499.995	Outer_Full	20	LV	-3.80	-0.0011	≥ -2.5 & ≤ 2.5	Pass
				HV	-5.50	-0.0016	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-4.20	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-1.90	-0.0005	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-2.40	-0.0007	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-4.40	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-4.10	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-2.50	-0.0007	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-4.90	-0.0014	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-3.00	-0.0009	≥ -2.5 & ≤ 2.5	Pass
50	NV	-3.70	-0.0011	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 16 QAM	3499.995	Outer_Full	20	LV	-3.00	-0.0009	≥ -2.5 & ≤ 2.5	Pass
				HV	-4.20	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-5.40	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-4.10	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-5.40	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-5.20	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-3.10	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-2.50	-0.0007	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-3.00	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-5.00	-0.0014	≥ -2.5 & ≤ 2.5	Pass
50	NV	-4.50	-0.0013	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 64 QAM	3499.995	Outer_Full	20	LV	-3.50	-0.0010	≥ -2.5 & ≤ 2.5	Pass
				HV	-3.20	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-1.60	-0.0005	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-2.80	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-6.00	-0.0017	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-3.80	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-3.60	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-1.80	-0.0005	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-3.20	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-2.30	-0.0007	≥ -2.5 & ≤ 2.5	Pass
50	NV	-4.30	-0.0012	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 256 QAM	3499.995	Outer_Full	20	LV	-2.90	-0.0008	≥ -2.5 & ≤ 2.5	Pass
				HV	-2.60	-0.0007	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-3.80	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-3.30	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-1.40	-0.0004	≥ -2.5 & ≤ 2.5	Pass
0	NV	-2.20	-0.0006	≥ -2.5 & ≤ 2.5	Pass			

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			10	NV	-3.70	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
			30	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
			40	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
			50	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass

9.6 15k_SISO_40MHz

9.6.1 Test Result

5G NR n78e SCS=15kHz SISO 40MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3499.995	Outer_Full	20	LV	-12.00	-0.0034	>=-2.5 & <=2.5	Pass
				HV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-11.40	-0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass
			0	NV	-12.40	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	-5.20	-0.0015	>=-2.5 & <=2.5	Pass
50	NV	-4.50	-0.0013	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3499.995	Outer_Full	20	LV	-3.40	-0.0010	>=-2.5 & <=2.5	Pass
				HV	-1.80	-0.0005	>=-2.5 & <=2.5	Pass
			-30	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	-4.80	-0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-3.50	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-5.10	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-4.60	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-3.40	-0.0010	>=-2.5 & <=2.5	Pass
			30	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
			40	NV	-3.30	-0.0009	>=-2.5 & <=2.5	Pass
50	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3499.995	Outer_Full	20	LV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
			30	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			40	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
50	NV	-10.90	-0.0031	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3499.995	Outer_Full	20	LV	-10.70	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-9.30	-0.0027	>=-2.5 & <=2.5	Pass
0	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass			



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			10	NV	-12.40	-0.0035	>=-2.5 & <=2.5	Pass			
			20	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass			
			30	NV	-8.60	-0.0025	>=-2.5 & <=2.5	Pass			
			40	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass			
			50	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	3499.995	Outer_Full	20	LV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass			
				HV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass			
						-30	NV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
						-20	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
						-10	NV	-7.00	-0.0020	>=-2.5 & <=2.5	Pass
						0	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
						10	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
						20	NV	-11.00	-0.0031	>=-2.5 & <=2.5	Pass
						30	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
						40	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
						50	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3499.995	Outer_Full	20	LV	-8.40	-0.0024	>=-2.5 & <=2.5	Pass			
				HV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass			
						-30	NV	-7.30	-0.0021	>=-2.5 & <=2.5	Pass
						-20	NV	-11.30	-0.0032	>=-2.5 & <=2.5	Pass
						-10	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
						0	NV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass
						10	NV	-8.10	-0.0023	>=-2.5 & <=2.5	Pass
						20	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
						30	NV	-5.20	-0.0015	>=-2.5 & <=2.5	Pass
						40	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
						50	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3499.995	Outer_Full	20	LV	-11.70	-0.0033	>=-2.5 & <=2.5	Pass			
				HV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass			
						-30	NV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
						-20	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
						-10	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
						0	NV	-7.60	-0.0022	>=-2.5 & <=2.5	Pass
						10	NV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
						20	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
						30	NV	-13.00	-0.0037	>=-2.5 & <=2.5	Pass
						40	NV	-6.10	-0.0017	>=-2.5 & <=2.5	Pass
						50	NV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3499.995	Outer_Full	20	LV	-5.80	-0.0017	>=-2.5 & <=2.5	Pass			
				HV	-3.00	-0.0009	>=-2.5 & <=2.5	Pass			
						-30	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
						-20	NV	-13.60	-0.0039	>=-2.5 & <=2.5	Pass
						-10	NV	-13.30	-0.0038	>=-2.5 & <=2.5	Pass
						0	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass
						10	NV	-12.10	-0.0035	>=-2.5 & <=2.5	Pass
						20	NV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
						30	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
						40	NV	-11.00	-0.0031	>=-2.5 & <=2.5	Pass
						50	NV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3499.995	Outer_Full	20	LV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass			
				HV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass			
						-30	NV	-12.10	-0.0035	>=-2.5 & <=2.5	Pass
						-20	NV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
						-10	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass



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		0	NV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
		10	NV	-13.30	-0.0038	>=-2.5 & <=2.5	Pass
		20	NV	-11.60	-0.0033	>=-2.5 & <=2.5	Pass
		30	NV	-7.60	-0.0022	>=-2.5 & <=2.5	Pass
		40	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
		50	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass

9.7 15k_SISO_50MHz

9.7.1 Test Result

5G NR n78e SCS=15kHz SISO 50MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3499.995	Outer_Full	20	LV	-3.70	-0.0011	>=-2.5 & <=2.5	Pass
				HV	-7.00	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-1.60	-0.0005	>=-2.5 & <=2.5	Pass
			-20	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-6.50	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
			10	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-14.70	-0.0042	>=-2.5 & <=2.5	Pass
			30	NV	-14.20	-0.0041	>=-2.5 & <=2.5	Pass
			40	NV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
50	NV	-13.30	-0.0038	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3499.995	Outer_Full	20	LV	-6.20	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-5.50	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-6.60	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-4.30	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-13.30	-0.0038	>=-2.5 & <=2.5	Pass
			30	NV	-11.30	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
50	NV	-12.40	-0.0035	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3499.995	Outer_Full	20	LV	-6.20	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass
			0	NV	-11.70	-0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-13.50	-0.0039	>=-2.5 & <=2.5	Pass
50	NV	-13.30	-0.0038	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3499.995	Outer_Full	20	LV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
				HV	-3.80	-0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-5.20	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass



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			0	NV	-4.80	-0.0014	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-3.40	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-8.00	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-5.30	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-3.80	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-6.10	-0.0017	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 256 QAM	3499.995	Outer_Full	20	LV	-10.70	-0.0031	≥ -2.5 & ≤ 2.5	Pass
				HV	-11.20	-0.0032	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-10.60	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-13.50	-0.0039	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-9.20	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-10.10	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-10.40	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-11.10	-0.0032	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-10.20	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-9.90	-0.0028	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-11.70	-0.0033	≥ -2.5 & ≤ 2.5	Pass
			CP-OFDM QPSK	3499.995	Outer_Full	20	LV	-4.10
HV	-6.30	-0.0018					≥ -2.5 & ≤ 2.5	Pass
-30	NV	-7.90				-0.0023	≥ -2.5 & ≤ 2.5	Pass
-20	NV	-3.20				-0.0009	≥ -2.5 & ≤ 2.5	Pass
-10	NV	-5.20				-0.0015	≥ -2.5 & ≤ 2.5	Pass
0	NV	-5.30				-0.0015	≥ -2.5 & ≤ 2.5	Pass
10	NV	-6.20				-0.0018	≥ -2.5 & ≤ 2.5	Pass
20	NV	-4.70				-0.0013	≥ -2.5 & ≤ 2.5	Pass
30	NV	-1.80				-0.0005	≥ -2.5 & ≤ 2.5	Pass
40	NV	-4.80				-0.0014	≥ -2.5 & ≤ 2.5	Pass
50	NV	-0.60				-0.0002	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 16 QAM	3499.995	Outer_Full				20	LV	-4.70
			HV	-2.60	-0.0007		≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-4.10	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-3.90	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-5.20	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-7.30	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-7.10	-0.0020	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-3.10	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-2.30	-0.0007	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-2.40	-0.0007	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-4.50	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			CP-OFDM 64 QAM	3499.995	Outer_Full	20	LV	-1.20
HV	-1.90	-0.0005					≥ -2.5 & ≤ 2.5	Pass
-30	NV	-6.70				-0.0019	≥ -2.5 & ≤ 2.5	Pass
-20	NV	-4.70				-0.0013	≥ -2.5 & ≤ 2.5	Pass
-10	NV	-2.10				-0.0006	≥ -2.5 & ≤ 2.5	Pass
0	NV	-1.90				-0.0005	≥ -2.5 & ≤ 2.5	Pass
10	NV	-5.40				-0.0015	≥ -2.5 & ≤ 2.5	Pass
20	NV	-4.30				-0.0012	≥ -2.5 & ≤ 2.5	Pass
30	NV	-6.40				-0.0018	≥ -2.5 & ≤ 2.5	Pass
40	NV	-5.70				-0.0016	≥ -2.5 & ≤ 2.5	Pass
50	NV	-2.70				-0.0008	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 256 QAM	3499.995	Outer_Full				20	LV	-10.60
			HV	-8.80	-0.0025		≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-11.10	-0.0032	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-10.10	-0.0029	≥ -2.5 & ≤ 2.5	Pass



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			-10	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	-11.70	-0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
			40	NV	-11.60	-0.0033	>=-2.5 & <=2.5	Pass
			50	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass

9.8 30k_SISO_10MHz

9.8.1 Test Result

5G NR n78e SCS=30kHz SISO 10MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-11.40	-0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-12.00	-0.0034	>=-2.5 & <=2.5	Pass
			30	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
50	NV	-7.40	-0.0021	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	-10.70	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-9.30	-0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-8.10	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-12.80	-0.0037	>=-2.5 & <=2.5	Pass
			10	NV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-10.70	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass
			40	NV	-10.70	-0.0031	>=-2.5 & <=2.5	Pass
50	NV	-8.10	-0.0023	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-6.10	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-11.30	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-7.20	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-11.80	-0.0034	>=-2.5 & <=2.5	Pass
			40	NV	-8.60	-0.0025	>=-2.5 & <=2.5	Pass
50	NV	-7.30	-0.0021	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
				HV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass



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			-10	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass			
			0	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass			
			10	NV	-10.90	-0.0031	>=-2.5 & <=2.5	Pass			
			20	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass			
			30	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass			
			40	NV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass			
			50	NV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass			
				HV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass			
					-30	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass	
					-20	NV	-10.70	-0.0031	>=-2.5 & <=2.5	Pass	
					-10	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass	
					0	NV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass	
					10	NV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass	
					20	NV	-8.40	-0.0024	>=-2.5 & <=2.5	Pass	
					30	NV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass	
					40	NV	-8.60	-0.0025	>=-2.5 & <=2.5	Pass	
					50	NV	-12.70	-0.0036	>=-2.5 & <=2.5	Pass	
			CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
							HV	-7.70	-0.0022	>=-2.5 & <=2.5	Pass
								-30	NV	-9.60	-0.0027
		-20				NV	-7.30	-0.0021	>=-2.5 & <=2.5	Pass	
		-10				NV	-7.30	-0.0021	>=-2.5 & <=2.5	Pass	
		0				NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass	
		10				NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass	
		20				NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass	
		30				NV	-7.70	-0.0022	>=-2.5 & <=2.5	Pass	
		40				NV	-12.20	-0.0035	>=-2.5 & <=2.5	Pass	
		50				NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass	
CP-OFDM 16 QAM	3500.01	Outer_Full				20	LV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
							HV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
								-30	NV	-10.10	-0.0029
					-20	NV	-11.00	-0.0031	>=-2.5 & <=2.5	Pass	
					-10	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass	
					0	NV	-7.70	-0.0022	>=-2.5 & <=2.5	Pass	
					10	NV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass	
					20	NV	-8.40	-0.0024	>=-2.5 & <=2.5	Pass	
					30	NV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass	
					40	NV	-7.70	-0.0022	>=-2.5 & <=2.5	Pass	
					50	NV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass	
			CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
							HV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
								-30	NV	-7.90	-0.0023
		-20				NV	-9.30	-0.0027	>=-2.5 & <=2.5	Pass	
		-10				NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass	
		0				NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass	
		10				NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass	
		20				NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass	
		30				NV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass	
		40				NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass	
		50				NV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass	
CP-OFDM 256 QAM	3500.01	Outer_Full				20	LV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
							HV	-11.60	-0.0033	>=-2.5 & <=2.5	Pass
								-30	NV	-8.50	-0.0024



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			-20	NV	-8.60	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			20	NV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			50	NV	-13.20	-0.0038	>=-2.5 & <=2.5	Pass

9.9 30k_SISO_15MHz

9.9.1 Test Result

5G NR n78e SCS=30kHz SISO 15MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-13.00	-0.0037	>=-2.5 & <=2.5	Pass
				HV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-12.50	-0.0036	>=-2.5 & <=2.5	Pass
			-10	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			20	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
50	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	-11.30	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-13.40	-0.0038	>=-2.5 & <=2.5	Pass
			-30	NV	-6.60	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-10.90	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	-10.90	-0.0031	>=-2.5 & <=2.5	Pass
50	NV	-6.50	-0.0019	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-13.10	-0.0037	>=-2.5 & <=2.5	Pass
				HV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass
			0	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-10.90	-0.0031	>=-2.5 & <=2.5	Pass
			20	NV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-7.00	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
50	NV	-5.90	-0.0017	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-13.30	-0.0038	>=-2.5 & <=2.5	Pass
			-30	NV	-11.40	-0.0033	>=-2.5 & <=2.5	Pass



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 4. 中国·江苏·昆山市留學生创业园伟业路10号 邮编 215300
 5. 86-512157350888 / 86-512157370011 / sgs.china@sgs.com

			-20	NV	-10.60	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-8.10	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-10.60	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-11.40	-0.0033	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-7.30	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-10.70	-0.0031	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-8.70	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-7.50	-0.0021	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-11.70	-0.0033	≥ -2.5 & ≤ 2.5	Pass
				HV	-6.20	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-10.50	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-12.00	-0.0034	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-11.20	-0.0032	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-13.10	-0.0037	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-6.70	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-11.90	-0.0034	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-9.20	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-8.30	-0.0024	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-8.80	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-8.60
	HV	-10.20				-0.0029	≥ -2.5 & ≤ 2.5	Pass
-30	NV	-8.20				-0.0023	≥ -2.5 & ≤ 2.5	Pass
-20	NV	-8.40				-0.0024	≥ -2.5 & ≤ 2.5	Pass
-10	NV	-6.50				-0.0019	≥ -2.5 & ≤ 2.5	Pass
0	NV	-9.80				-0.0028	≥ -2.5 & ≤ 2.5	Pass
10	NV	-6.50				-0.0019	≥ -2.5 & ≤ 2.5	Pass
20	NV	-13.00				-0.0037	≥ -2.5 & ≤ 2.5	Pass
30	NV	-8.90				-0.0025	≥ -2.5 & ≤ 2.5	Pass
40	NV	-11.10				-0.0032	≥ -2.5 & ≤ 2.5	Pass
50	NV	-10.30				-0.0029	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full				20	LV	-10.50
				HV	-10.10	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-9.60	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-6.20	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-8.90	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-9.80	-0.0028	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-6.20	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-8.70	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-10.50	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-6.70	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-6.10	-0.0017	≥ -2.5 & ≤ 2.5	Pass
			CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-11.10
	HV	-9.90				-0.0028	≥ -2.5 & ≤ 2.5	Pass
-30	NV	-9.80				-0.0028	≥ -2.5 & ≤ 2.5	Pass
-20	NV	-6.30				-0.0018	≥ -2.5 & ≤ 2.5	Pass
-10	NV	-9.60				-0.0027	≥ -2.5 & ≤ 2.5	Pass
0	NV	-10.40				-0.0030	≥ -2.5 & ≤ 2.5	Pass
10	NV	-8.50				-0.0024	≥ -2.5 & ≤ 2.5	Pass
20	NV	-11.70				-0.0033	≥ -2.5 & ≤ 2.5	Pass
30	NV	-9.00				-0.0026	≥ -2.5 & ≤ 2.5	Pass
40	NV	-7.60				-0.0022	≥ -2.5 & ≤ 2.5	Pass
50	NV	-9.80				-0.0028	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full				20	LV	-8.40
				HV	-9.60	-0.0027	≥ -2.5 & ≤ 2.5	Pass



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			-30	NV	-13.30	-0.0038	>=-2.5 & <=2.5	Pass
			-20	NV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-8.40	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass
			40	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			50	NV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass

9.10 30k_SISO_20MHz

9.10.1 Test Result

5G NR n78e SCS=30kHz SISO 20MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-7.70	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			0	NV	-11.40	-0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-10.70	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-9.30	-0.0027	>=-2.5 & <=2.5	Pass
50	NV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	-12.80	-0.0037	>=-2.5 & <=2.5	Pass
				HV	-7.20	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			0	NV	-7.00	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-11.30	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-12.50	-0.0036	>=-2.5 & <=2.5	Pass
50	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-12.10	-0.0035	>=-2.5 & <=2.5	Pass
				HV	-11.00	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-11.70	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			40	NV	-8.40	-0.0024	>=-2.5 & <=2.5	Pass
50	NV	-11.40	-0.0033	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
				HV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass



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			-30	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-9.30	-0.0027	>=-2.5 & <=2.5	Pass
			10	NV	-10.90	-0.0031	>=-2.5 & <=2.5	Pass
			20	NV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			40	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			50	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-6.90	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-11.40	-0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-10.70	-0.0031	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
				HV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-7.40	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-8.10	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
			40	NV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass
				HV	-6.50	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-11.70	-0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-11.00	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-6.30	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-6.10	-0.0017	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-6.50	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-11.40	-0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-6.60	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-10.70	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			40	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-6.90	-0.0020	>=-2.5 & <=2.5	Pass



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				HV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-8.10	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass
			20	NV	-12.20	-0.0035	>=-2.5 & <=2.5	Pass
			30	NV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			50	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass

9.11 30k_SISO_25MHz

9.11.1 Test Result

5G NR n78e SCS=30kHz SISO 25MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
				HV	-6.60	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-9.30	-0.0027	>=-2.5 & <=2.5	Pass
				NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass
				NV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
				NV	-7.70	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-11.00	-0.0031	>=-2.5 & <=2.5	Pass
NV	-8.70	-0.0025		>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass
				HV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
				NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-11.70	-0.0033	>=-2.5 & <=2.5	Pass
				NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-9.30	-0.0027	>=-2.5 & <=2.5	Pass
				NV	-11.40	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass
NV	-13.30	-0.0038		>=-2.5 & <=2.5	Pass			
30	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass			
	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-7.40	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
				NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
				NV	-12.90	-0.0037	>=-2.5 & <=2.5	Pass
			10	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
				NV	-12.10	-0.0035	>=-2.5 & <=2.5	Pass
			20	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass
NV	-8.00	-0.0023		>=-2.5 & <=2.5	Pass			
30	NV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass			
	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass			
40	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass			
	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass			
50	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass			
	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass



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				HV	-9.90	-0.0028	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-10.40	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-11.90	-0.0034	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-9.60	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-10.90	-0.0031	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-8.80	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-10.00	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-9.90	-0.0028	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-11.80	-0.0034	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	50	NV	-9.20	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			20	LV	-7.50	-0.0021	≥ -2.5 & ≤ 2.5	Pass
				HV	-8.70	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-8.80	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-9.50	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-8.80	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-8.60	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-12.10	-0.0035	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-12.70	-0.0036	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM QPSK	3500.01	Outer_Full	30	NV	-10.30	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-11.90	-0.0034	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-14.00	-0.0040	≥ -2.5 & ≤ 2.5	Pass
			20	LV	-6.80	-0.0019	≥ -2.5 & ≤ 2.5	Pass
				HV	-7.70	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-7.50	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-9.00	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-10.70	-0.0031	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-7.80	-0.0022	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	10	NV	-11.90	-0.0034	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-9.50	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-8.80	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-11.10	-0.0032	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-8.40	-0.0024	≥ -2.5 & ≤ 2.5	Pass
			20	LV	-8.70	-0.0025	≥ -2.5 & ≤ 2.5	Pass
				HV	-7.60	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-10.50	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-9.00	-0.0026	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	-10	NV	-12.40	-0.0035	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-14.70	-0.0042	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-9.20	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-9.10	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-7.70	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-8.10	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-6.80	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			20	LV	-8.80	-0.0025	≥ -2.5 & ≤ 2.5	Pass
				HV	-12.60	-0.0036	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-9.80	-0.0028	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-7.20	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-9.60	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-13.10	-0.0037	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-11.60	-0.0033	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-7.30	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-9.30	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-13.30	-0.0038	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-6.50	-0.0019	≥ -2.5 & ≤ 2.5	Pass



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CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-6.70	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-11.00	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-6.20	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-7.70	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
50	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass			

9.12 30k_SISO_30MHz

9.12.1 Test Result

5G NR n78e SCS=30kHz SISO 30MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	-14.00	-0.0040	>=-2.5 & <=2.5	Pass
			0	NV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-13.50	-0.0039	>=-2.5 & <=2.5	Pass
			20	NV	-13.00	-0.0037	>=-2.5 & <=2.5	Pass
			30	NV	-16.10	-0.0046	>=-2.5 & <=2.5	Pass
			40	NV	-11.00	-0.0031	>=-2.5 & <=2.5	Pass
50	NV	-12.40	-0.0035	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	-9.30	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-13.30	-0.0038	>=-2.5 & <=2.5	Pass
			-20	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-7.30	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-11.80	-0.0034	>=-2.5 & <=2.5	Pass
			20	NV	-11.60	-0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
			40	NV	-11.00	-0.0031	>=-2.5 & <=2.5	Pass
50	NV	-11.60	-0.0033	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-14.00	-0.0040	>=-2.5 & <=2.5	Pass
			0	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-13.20	-0.0038	>=-2.5 & <=2.5	Pass
			20	NV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-12.70	-0.0036	>=-2.5 & <=2.5	Pass
50	NV	-10.90	-0.0031	>=-2.5 & <=2.5	Pass			



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DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-7.40	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-12.20	-0.0035	>=-2.5 & <=2.5	Pass
			20	NV	-11.60	-0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
40	NV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass			
50	NV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	-6.30	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-10.70	-0.0031	>=-2.5 & <=2.5	Pass
40	NV	-6.50	-0.0019	>=-2.5 & <=2.5	Pass			
50	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-7.30	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-9.30	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-6.70	-0.0019	>=-2.5 & <=2.5	Pass
40	NV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass			
50	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-11.60	-0.0033	>=-2.5 & <=2.5	Pass
				HV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-12.40	-0.0035	>=-2.5 & <=2.5	Pass
			-20	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			0	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-13.70	-0.0039	>=-2.5 & <=2.5	Pass
			30	NV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
40	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass			
50	NV	-11.70	-0.0033	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-6.90	-0.0020	>=-2.5 & <=2.5	Pass
40	NV	-8.40	-0.0024	>=-2.5 & <=2.5	Pass			



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CP-OFDM 256 QAM	3500.01	Outer_Full	50	NV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
			20	LV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-9.30	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-11.30	-0.0032	>=-2.5 & <=2.5	Pass
			30	NV	-8.10	-0.0023	>=-2.5 & <=2.5	Pass
40	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass			
50	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass			

9.13 30k_SISO_40MHz

9.13.1 Test Result

5G NR n78e SCS=30kHz SISO 40MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-6.60	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-11.60	-0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-11.40	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-11.80	-0.0034	>=-2.5 & <=2.5	Pass
			30	NV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-14.10	-0.0040	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-8.60	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-7.60	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-7.70	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-10.70	-0.0031	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-13.10	-0.0037	>=-2.5 & <=2.5	Pass
				HV	-15.30	-0.0044	>=-2.5 & <=2.5	Pass
			-30	NV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-12.00	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-7.30	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-13.30	-0.0038	>=-2.5 & <=2.5	Pass
			10	NV	-11.60	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-5.50	-0.0016	>=-2.5 & <=2.5	Pass



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DFT-s-OFDM 64 QAM	3500.01	Outer_Full	50	NV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
			20	LV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
				HV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-8.40	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-10.70	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-9.30	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-5.10	-0.0015	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
				HV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-6.20	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
			30	NV	-12.20	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-8.10	-0.0023	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-8.60	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-12.30	-0.0035	>=-2.5 & <=2.5	Pass
			0	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-8.40	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass
			40	NV	-12.10	-0.0035	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-11.40	-0.0033	>=-2.5 & <=2.5	Pass
				HV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-11.30	-0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	-9.30	-0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			0	NV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-7.60	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			40	NV	-5.80	-0.0017	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-11.90	-0.0034	>=-2.5 & <=2.5	Pass
				HV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-11.60	-0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-7.00	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
30	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass			



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CP-OFDM 256 QAM	3500.01	Outer_Full	40	NV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
			50	NV	-6.90	-0.0020	>=-2.5 & <=2.5	Pass
			20	LV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-8.10	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-13.40	-0.0038	>=-2.5 & <=2.5	Pass
			20	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-7.20	-0.0021	>=-2.5 & <=2.5	Pass
			50	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass

9.14 30k_SISO_50MHz

9.14.1 Test Result

5G NR n78e SCS=30kHz SISO 50MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-14.60	-0.0042	>=-2.5 & <=2.5	Pass
			-30	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-12.00	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-12.50	-0.0036	>=-2.5 & <=2.5	Pass
			0	NV	-13.70	-0.0039	>=-2.5 & <=2.5	Pass
			10	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-13.10	-0.0037	>=-2.5 & <=2.5	Pass
50	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	-8.40	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-7.20	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-12.50	-0.0036	>=-2.5 & <=2.5	Pass
			-20	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	-12.10	-0.0035	>=-2.5 & <=2.5	Pass
			0	NV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
			40	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
50	NV	-12.60	-0.0036	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
			30	NV	-12.20	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
50	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass			



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DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-8.10	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-11.30	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass
			0	NV	-9.30	-0.0027	>=-2.5 & <=2.5	Pass
			10	NV	-8.60	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-13.30	-0.0038	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-9.30	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-12.40	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass
			20	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-7.00	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-14.10	-0.0040	>=-2.5 & <=2.5	Pass
			0	NV	-10.70	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	-12.30	-0.0035	>=-2.5 & <=2.5	Pass
			-20	NV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	-5.20	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-8.40	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-8.60	-0.0025	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-8.40	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-7.70	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-7.20	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-5.50	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-12.60	-0.0036	>=-2.5 & <=2.5	Pass
			30	NV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass
40	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass			



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CP-OFDM 256 QAM	3500.01	Outer_Full	50	NV	-6.20	-0.0018	>=-2.5 & <=2.5	Pass
			20	LV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-6.50	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-6.30	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-10.90	-0.0031	>=-2.5 & <=2.5	Pass
50	NV	-12.50	-0.0036	>=-2.5 & <=2.5	Pass			

9.15 30k_SISO_60MHz

9.15.1 Test Result

5G NR n78e SCS=30kHz SISO 60MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-11.90	-0.0034	>=-2.5 & <=2.5	Pass
			-30	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			20	NV	-13.10	-0.0037	>=-2.5 & <=2.5	Pass
			30	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
			40	NV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
			50	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-11.00	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-7.40	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-13.00	-0.0037	>=-2.5 & <=2.5	Pass
			-10	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-11.40	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
			40	NV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass
			50	NV	-13.60	-0.0039	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-11.80	-0.0034	>=-2.5 & <=2.5	Pass
				HV	-13.80	-0.0039	>=-2.5 & <=2.5	Pass
			-30	NV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-6.90	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-12.00	-0.0034	>=-2.5 & <=2.5	Pass
			20	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-7.70	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass



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DFT-s-OFDM 64 QAM	3500.01	Outer_Full	50	NV	-13.70	-0.0039	>=-2.5 & <=2.5	Pass
			20	LV	-11.60	-0.0033	>=-2.5 & <=2.5	Pass
				HV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-11.80	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-9.30	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-12.10	-0.0035	>=-2.5 & <=2.5	Pass
				HV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-15.40	-0.0044	>=-2.5 & <=2.5	Pass
			-20	NV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	-11.00	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			30	NV	-11.30	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-12.10	-0.0035	>=-2.5 & <=2.5	Pass
				HV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-15.00	-0.0043	>=-2.5 & <=2.5	Pass
			0	NV	-7.60	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-13.40	-0.0038	>=-2.5 & <=2.5	Pass
			40	NV	-8.40	-0.0024	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-8.10	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-9.30	-0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	-7.30	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-11.00	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-11.60	-0.0033	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-7.30	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-12.20	-0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	-6.50	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	-14.60	-0.0042	>=-2.5 & <=2.5	Pass
			10	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
30	NV	-12.10	-0.0035	>=-2.5 & <=2.5	Pass			



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			40	NV	-14.10	-0.0040	>=-2.5 & <=2.5	Pass
			50	NV	-6.70	-0.0019	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-5.90	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-12.00	-0.0034	>=-2.5 & <=2.5	Pass
			40	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
						50	NV	-10.60

9.16 30k_SISO_70MHz

9.16.1 Test Result

5G NR n78e SCS=30kHz SISO 70MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-12.10	-0.0035	>=-2.5 & <=2.5	Pass
				HV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-11.00	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass
			0	NV	-12.30	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-13.00	-0.0037	>=-2.5 & <=2.5	Pass
			20	NV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
			30	NV	-12.60	-0.0036	>=-2.5 & <=2.5	Pass
			40	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-11.30	-0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			30	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
			40	NV	-12.10	-0.0035	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-11.00	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-12.60	-0.0036	>=-2.5 & <=2.5	Pass
			-20	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-8.60	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
			10	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-10.90	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-11.40	-0.0033	>=-2.5 & <=2.5	Pass



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			40	NV	-9.90	-0.0028	≥ -2.5 & ≤ 2.5	Pass			
			50	NV	-12.20	-0.0035	≥ -2.5 & ≤ 2.5	Pass			
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-6.10	-0.0017	≥ -2.5 & ≤ 2.5	Pass			
				HV	-12.00	-0.0034	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-9.80	-0.0028	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-9.70	-0.0028	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-10.80	-0.0031	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-9.10	-0.0026	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-7.60	-0.0022	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-12.20	-0.0035	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-10.50	-0.0030	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-9.10	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-11.10	-0.0032	≥ -2.5 & ≤ 2.5	Pass			
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-13.60	-0.0039	≥ -2.5 & ≤ 2.5	Pass			
				HV	-12.40	-0.0035	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-12.20	-0.0035	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-12.40	-0.0035	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-11.20	-0.0032	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-9.30	-0.0027	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-10.30	-0.0029	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-11.60	-0.0033	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-10.90	-0.0031	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-9.70	-0.0028	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-7.60	-0.0022	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-7.60	-0.0022	≥ -2.5 & ≤ 2.5	Pass			
				HV	-14.30	-0.0041	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-9.30	-0.0027	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-10.80	-0.0031	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-6.40	-0.0018	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-9.10	-0.0026	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-7.40	-0.0021	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-10.90	-0.0031	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-11.40	-0.0033	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-7.00	-0.0020	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-11.10	-0.0032	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-11.00	-0.0031	≥ -2.5 & ≤ 2.5	Pass			
				HV	-9.50	-0.0027	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-8.60	-0.0025	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-12.20	-0.0035	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-8.50	-0.0024	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-10.60	-0.0030	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-12.40	-0.0035	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-16.80	-0.0048	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-6.30	-0.0018	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-9.10	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-13.10	-0.0037	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-12.30	-0.0035	≥ -2.5 & ≤ 2.5	Pass			
				HV	-9.10	-0.0026	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-11.80	-0.0034	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-10.20	-0.0029	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-11.90	-0.0034	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-7.80	-0.0022	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-13.00	-0.0037	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-9.20	-0.0026	≥ -2.5 & ≤ 2.5	Pass



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CP-OFDM 256 QAM	3500.01	Outer_Full	30	NV	-13.00	-0.0037	>=-2.5 & <=2.5	Pass
			40	NV	-12.00	-0.0034	>=-2.5 & <=2.5	Pass
			50	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			20	LV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
				HV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-10.70	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-12.20	-0.0035	>=-2.5 & <=2.5	Pass
40	NV	-7.70	-0.0022	>=-2.5 & <=2.5	Pass			
50	NV	-8.60	-0.0025	>=-2.5 & <=2.5	Pass			

9.17 30k_SISO_80MHz

9.17.1 Test Result

5G NR n78e SCS=30kHz SISO 80MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-15.10	-0.0043	>=-2.5 & <=2.5	Pass
			-20	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-13.00	-0.0037	>=-2.5 & <=2.5	Pass
			0	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-11.40	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
50	NV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-11.60	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-14.80	-0.0042	>=-2.5 & <=2.5	Pass
			10	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-8.10	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass
50	NV	-11.00	-0.0031	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
				HV	-7.70	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-7.00	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
20	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass			



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			30	NV	-13.30	-0.0038	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-10.30	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-18.00	-0.0051	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-8.10	-0.0023	≥ -2.5 & ≤ 2.5	Pass
				HV	-8.30	-0.0024	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-8.10	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-9.40	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-12.00	-0.0034	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-9.70	-0.0028	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-10.70	-0.0031	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-9.20	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-8.70	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-11.70	-0.0033	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-10.00	-0.0029	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-8.60	-0.0025	≥ -2.5 & ≤ 2.5	Pass
				HV	-11.10	-0.0032	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-12.40	-0.0035	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-11.10	-0.0032	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-5.20	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-11.60	-0.0033	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-12.50	-0.0036	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-10.80	-0.0031	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-12.90	-0.0037	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-10.40	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-12.50	-0.0036	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-13.10	-0.0037	≥ -2.5 & ≤ 2.5	Pass
				HV	-8.00	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-11.00	-0.0031	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-7.90	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-6.10	-0.0017	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-8.80	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-11.10	-0.0032	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-9.50	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-12.50	-0.0036	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-11.60	-0.0033	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-7.50	-0.0021	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-9.10	-0.0026	≥ -2.5 & ≤ 2.5	Pass
				HV	-6.30	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-7.20	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-8.40	-0.0024	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-10.60	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-10.00	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-9.90	-0.0028	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-11.50	-0.0033	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-11.70	-0.0033	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-10.50	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-10.50	-0.0030	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-11.30	-0.0032	≥ -2.5 & ≤ 2.5	Pass
				HV	-6.80	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-8.00	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-8.20	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-13.30	-0.0038	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-12.30	-0.0035	≥ -2.5 & ≤ 2.5	Pass
10	NV	-10.10	-0.0029	≥ -2.5 & ≤ 2.5	Pass			



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CP-OFDM 256 QAM	3500.01	Outer_Full	20	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-12.80	-0.0037	>=-2.5 & <=2.5	Pass
			40	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
			50	NV	-10.70	-0.0031	>=-2.5 & <=2.5	Pass
			20	LV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
				HV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-8.10	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-12.30	-0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			0	NV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-12.50	-0.0036	>=-2.5 & <=2.5	Pass
40	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass			
50	NV	-6.10	-0.0017	>=-2.5 & <=2.5	Pass			

9.18 30k_SISO_90MHz

9.18.1 Test Result

5G NR n78e SCS=30kHz SISO 90MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-12.10	-0.0035	>=-2.5 & <=2.5	Pass
			-30	NV	-11.70	-0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-12.70	-0.0036	>=-2.5 & <=2.5	Pass
			0	NV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-14.00	-0.0040	>=-2.5 & <=2.5	Pass
			30	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass
50	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	-11.00	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-14.10	-0.0040	>=-2.5 & <=2.5	Pass
			-10	NV	-10.80	-0.0031	>=-2.5 & <=2.5	Pass
			0	NV	-7.00	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-8.60	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass
			40	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
50	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-12.00	-0.0034	>=-2.5 & <=2.5	Pass
				HV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
			0	NV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
10	NV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass			



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			20	NV	-11.40	-0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			40	NV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
			50	NV	-8.40	-0.0024	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass
				HV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
			10	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass
			20	NV	-13.50	-0.0039	>=-2.5 & <=2.5	Pass
			30	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
50	NV	-6.90	-0.0020	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-7.60	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	-8.60	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
			0	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-13.20	-0.0038	>=-2.5 & <=2.5	Pass
			20	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-5.90	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-10.10	-0.0029	>=-2.5 & <=2.5	Pass
50	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-9.10	-0.0026	>=-2.5 & <=2.5	Pass
				HV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-11.60	-0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	-11.40	-0.0033	>=-2.5 & <=2.5	Pass
			0	NV	-13.50	-0.0039	>=-2.5 & <=2.5	Pass
			10	NV	-6.60	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-13.10	-0.0037	>=-2.5 & <=2.5	Pass
			40	NV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
50	NV	-11.00	-0.0031	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-6.20	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
			10	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
50	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
0	NV	-11.70	-0.0033	>=-2.5 & <=2.5	Pass			



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			10	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass			
			20	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass			
			30	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass			
			40	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass			
			50	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass			
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass			
				HV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass			
						-30	NV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
						-20	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
						-10	NV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
						0	NV	-12.00	-0.0034	>=-2.5 & <=2.5	Pass
						10	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
						20	NV	-8.10	-0.0023	>=-2.5 & <=2.5	Pass
						30	NV	-7.70	-0.0022	>=-2.5 & <=2.5	Pass
						40	NV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
						50	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass

9.19 30k_SISO_100MHz

9.19.1 Test Result

5G NR n78e SCS=30kHz SISO 100MHz											
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict			
						Result	Limit				
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass			
				HV	-11.60	-0.0033	>=-2.5 & <=2.5	Pass			
						-30	NV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
						-20	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
						-10	NV	-11.90	-0.0034	>=-2.5 & <=2.5	Pass
						0	NV	-12.00	-0.0034	>=-2.5 & <=2.5	Pass
						10	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
						20	NV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass
						30	NV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
						40	NV	-9.50	-0.0027	>=-2.5 & <=2.5	Pass
			50	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass			
				HV	-7.40	-0.0021	>=-2.5 & <=2.5	Pass			
						-30	NV	-12.10	-0.0035	>=-2.5 & <=2.5	Pass
						-20	NV	-11.70	-0.0033	>=-2.5 & <=2.5	Pass
						-10	NV	-12.10	-0.0035	>=-2.5 & <=2.5	Pass
						0	NV	-9.80	-0.0028	>=-2.5 & <=2.5	Pass
						10	NV	-13.10	-0.0037	>=-2.5 & <=2.5	Pass
						20	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
						30	NV	-13.10	-0.0037	>=-2.5 & <=2.5	Pass
			40	NV	-13.00	-0.0037	>=-2.5 & <=2.5	Pass			
			50	NV	-11.70	-0.0033	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass			
				HV	-15.10	-0.0043	>=-2.5 & <=2.5	Pass			
						-30	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
						-20	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass
						-10	NV	-11.10	-0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass			



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			10	NV	-6.60	-0.0019	>=-2.5 & <=2.5	Pass			
			20	NV	-11.60	-0.0033	>=-2.5 & <=2.5	Pass			
			30	NV	-13.80	-0.0039	>=-2.5 & <=2.5	Pass			
			40	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass			
			50	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-13.30	-0.0038	>=-2.5 & <=2.5	Pass			
				HV	-9.90	-0.0028	>=-2.5 & <=2.5	Pass			
						-30	NV	-12.40	-0.0035	>=-2.5 & <=2.5	Pass
						-20	NV	-10.60	-0.0030	>=-2.5 & <=2.5	Pass
						-10	NV	-8.50	-0.0024	>=-2.5 & <=2.5	Pass
						0	NV	-12.40	-0.0035	>=-2.5 & <=2.5	Pass
						10	NV	-8.00	-0.0023	>=-2.5 & <=2.5	Pass
						20	NV	-14.90	-0.0043	>=-2.5 & <=2.5	Pass
						30	NV	-11.80	-0.0034	>=-2.5 & <=2.5	Pass
						40	NV	-13.10	-0.0037	>=-2.5 & <=2.5	Pass
						50	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
			DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-13.00	-0.0037	>=-2.5 & <=2.5	Pass
HV	-8.90	-0.0025					>=-2.5 & <=2.5	Pass			
						-30	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
						-20	NV	-7.70	-0.0022	>=-2.5 & <=2.5	Pass
						-10	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
						0	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
						10	NV	-11.80	-0.0034	>=-2.5 & <=2.5	Pass
						20	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
						30	NV	-10.00	-0.0029	>=-2.5 & <=2.5	Pass
						40	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
						50	NV	-11.00	-0.0031	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3500.01	Outer_Full				20	LV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
			HV	-10.80	-0.0031		>=-2.5 & <=2.5	Pass			
						-30	NV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
						-20	NV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
						-10	NV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
						0	NV	-7.60	-0.0022	>=-2.5 & <=2.5	Pass
						10	NV	-11.70	-0.0033	>=-2.5 & <=2.5	Pass
						20	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
						30	NV	-8.80	-0.0025	>=-2.5 & <=2.5	Pass
						40	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
						50	NV	-10.30	-0.0029	>=-2.5 & <=2.5	Pass
			CP-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-7.20	-0.0021	>=-2.5 & <=2.5	Pass
HV	-13.10	-0.0037					>=-2.5 & <=2.5	Pass			
						-30	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass
						-20	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
						-10	NV	-9.60	-0.0027	>=-2.5 & <=2.5	Pass
						0	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass
						10	NV	-7.70	-0.0022	>=-2.5 & <=2.5	Pass
						20	NV	-10.50	-0.0030	>=-2.5 & <=2.5	Pass
						30	NV	-8.40	-0.0024	>=-2.5 & <=2.5	Pass
						40	NV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
						50	NV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full				20	LV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
			HV	-12.40	-0.0035		>=-2.5 & <=2.5	Pass			
						-30	NV	-11.20	-0.0032	>=-2.5 & <=2.5	Pass
						-20	NV	-11.50	-0.0033	>=-2.5 & <=2.5	Pass
						-10	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass



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			0	NV	-12.00	-0.0034	≥ -2.5 & ≤ 2.5	Pass			
			10	NV	-8.40	-0.0024	≥ -2.5 & ≤ 2.5	Pass			
			20	NV	-11.40	-0.0033	≥ -2.5 & ≤ 2.5	Pass			
			30	NV	-9.70	-0.0028	≥ -2.5 & ≤ 2.5	Pass			
			40	NV	-8.00	-0.0023	≥ -2.5 & ≤ 2.5	Pass			
			50	NV	-11.30	-0.0032	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-10.80	-0.0031	≥ -2.5 & ≤ 2.5	Pass			
				HV	-11.80	-0.0034	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-7.00	-0.0020	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-11.10	-0.0032	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-10.20	-0.0029	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-10.10	-0.0029	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-6.60	-0.0019	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-6.90	-0.0020	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-12.10	-0.0035	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-10.70	-0.0031	≥ -2.5 & ≤ 2.5	Pass
						50	NV	-9.00	-0.0026	≥ -2.5 & ≤ 2.5	Pass



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