

# 1. Frequency Stability

## 1.1 30k\_SISO\_20MHz

### 1.1.1 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 QPSK	3500.01	Outer_Full	20	LV	-30.30	-0.0087	>=-2.5 & <=2.5	Pass
				HV	-29.10	-0.0083	>=-2.5 & <=2.5	Pass
			-30	NV	-23.10	-0.0066	>=-2.5 & <=2.5	Pass
			-20	NV	-34.30	-0.0098	>=-2.5 & <=2.5	Pass
			-10	NV	-37.50	-0.0107	>=-2.5 & <=2.5	Pass
			0	NV	-32.70	-0.0093	>=-2.5 & <=2.5	Pass
			10	NV	-34.50	-0.0099	>=-2.5 & <=2.5	Pass
			20	NV	-32.10	-0.0092	>=-2.5 & <=2.5	Pass
			30	NV	-35.40	-0.0101	>=-2.5 & <=2.5	Pass
			40	NV	-45.90	-0.0131	>=-2.5 & <=2.5	Pass
50	NV	-24.60	-0.0070	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-24.20	-0.0069	>=-2.5 & <=2.5	Pass
				HV	-33.10	-0.0095	>=-2.5 & <=2.5	Pass
			-30	NV	-38.50	-0.0110	>=-2.5 & <=2.5	Pass
			-20	NV	-35.30	-0.0101	>=-2.5 & <=2.5	Pass
			-10	NV	-17.30	-0.0049	>=-2.5 & <=2.5	Pass
			0	NV	-26.20	-0.0075	>=-2.5 & <=2.5	Pass
			10	NV	-35.00	-0.0100	>=-2.5 & <=2.5	Pass
			20	NV	-28.30	-0.0081	>=-2.5 & <=2.5	Pass
			30	NV	-19.70	-0.0056	>=-2.5 & <=2.5	Pass
			40	NV	-19.30	-0.0055	>=-2.5 & <=2.5	Pass
50	NV	-14.70	-0.0042	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-29.30	-0.0084	>=-2.5 & <=2.5	Pass
				HV	-27.90	-0.0080	>=-2.5 & <=2.5	Pass
			-30	NV	-29.00	-0.0083	>=-2.5 & <=2.5	Pass
			-20	NV	-37.80	-0.0108	>=-2.5 & <=2.5	Pass
			-10	NV	-18.90	-0.0054	>=-2.5 & <=2.5	Pass
			0	NV	-36.30	-0.0104	>=-2.5 & <=2.5	Pass
			10	NV	-37.70	-0.0108	>=-2.5 & <=2.5	Pass
			20	NV	-35.10	-0.0100	>=-2.5 & <=2.5	Pass
			30	NV	-34.10	-0.0097	>=-2.5 & <=2.5	Pass
			40	NV	-40.50	-0.0116	>=-2.5 & <=2.5	Pass
50	NV	-33.80	-0.0097	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-31.70	-0.0091	>=-2.5 & <=2.5	Pass
				HV	-35.70	-0.0102	>=-2.5 & <=2.5	Pass
			-30	NV	-38.20	-0.0109	>=-2.5 & <=2.5	Pass
			-20	NV	-34.40	-0.0098	>=-2.5 & <=2.5	Pass
			-10	NV	-32.80	-0.0094	>=-2.5 & <=2.5	Pass
			0	NV	-31.70	-0.0091	>=-2.5 & <=2.5	Pass
			10	NV	-44.60	-0.0127	>=-2.5 & <=2.5	Pass
			20	NV	-14.60	-0.0042	>=-2.5 & <=2.5	Pass
			30	NV	-30.00	-0.0086	>=-2.5 & <=2.5	Pass
			40	NV	-36.80	-0.0105	>=-2.5 & <=2.5	Pass
50	NV	-28.70	-0.0082	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-23.00	-0.0066	>=-2.5 & <=2.5	Pass
				HV	-33.40	-0.0095	>=-2.5 & <=2.5	Pass

			-30	NV	-34.20	-0.0098	$\geq -2.5$ & $\leq 2.5$	Pass			
			-20	NV	-31.00	-0.0089	$\geq -2.5$ & $\leq 2.5$	Pass			
			-10	NV	-22.90	-0.0065	$\geq -2.5$ & $\leq 2.5$	Pass			
			0	NV	-30.80	-0.0088	$\geq -2.5$ & $\leq 2.5$	Pass			
			10	NV	-31.50	-0.0090	$\geq -2.5$ & $\leq 2.5$	Pass			
			20	NV	-28.40	-0.0081	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-30.50	-0.0087	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-33.20	-0.0095	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-25.70	-0.0073	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-17.80	-0.0051	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-28.30	-0.0081	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-38.90	-0.0111	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-41.10	-0.0117	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-32.60	-0.0093	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-30.80	-0.0088	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-30.50	-0.0087	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-38.30	-0.0109	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-34.90	-0.0100	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-26.00	-0.0074	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-26.30	-0.0075	$\geq -2.5$ & $\leq 2.5$	Pass			

## 1.2 30k\_SISO\_30MHz

### 1.2.1 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 QPSK	3500.01	Outer_Full	20	LV	-31.70	-0.0091	>=-2.5 & <=2.5	Pass
				HV	-35.70	-0.0102	>=-2.5 & <=2.5	Pass
			-30	NV	-29.20	-0.0083	>=-2.5 & <=2.5	Pass
			-20	NV	-32.20	-0.0092	>=-2.5 & <=2.5	Pass
			-10	NV	-34.40	-0.0098	>=-2.5 & <=2.5	Pass
			0	NV	-30.00	-0.0086	>=-2.5 & <=2.5	Pass
			10	NV	-25.20	-0.0072	>=-2.5 & <=2.5	Pass
			20	NV	-23.90	-0.0068	>=-2.5 & <=2.5	Pass
			30	NV	-31.10	-0.0089	>=-2.5 & <=2.5	Pass
			40	NV	-29.30	-0.0084	>=-2.5 & <=2.5	Pass
50	NV	-31.90	-0.0091	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-28.90	-0.0083	>=-2.5 & <=2.5	Pass
				HV	-45.60	-0.0130	>=-2.5 & <=2.5	Pass
			-30	NV	-37.20	-0.0106	>=-2.5 & <=2.5	Pass
			-20	NV	-22.60	-0.0065	>=-2.5 & <=2.5	Pass
			-10	NV	-27.00	-0.0077	>=-2.5 & <=2.5	Pass
			0	NV	-21.20	-0.0061	>=-2.5 & <=2.5	Pass
			10	NV	-33.30	-0.0095	>=-2.5 & <=2.5	Pass
			20	NV	-25.90	-0.0074	>=-2.5 & <=2.5	Pass
			30	NV	-25.30	-0.0072	>=-2.5 & <=2.5	Pass
			40	NV	-37.20	-0.0106	>=-2.5 & <=2.5	Pass
50	NV	-25.50	-0.0073	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-28.20	-0.0081	>=-2.5 & <=2.5	Pass
				HV	-24.50	-0.0070	>=-2.5 & <=2.5	Pass
			-30	NV	-27.50	-0.0079	>=-2.5 & <=2.5	Pass
			-20	NV	-36.00	-0.0103	>=-2.5 & <=2.5	Pass
			-10	NV	-33.10	-0.0095	>=-2.5 & <=2.5	Pass
			0	NV	-42.00	-0.0120	>=-2.5 & <=2.5	Pass
			10	NV	-26.10	-0.0075	>=-2.5 & <=2.5	Pass
			20	NV	-36.20	-0.0103	>=-2.5 & <=2.5	Pass
			30	NV	-35.30	-0.0101	>=-2.5 & <=2.5	Pass
			40	NV	-31.10	-0.0089	>=-2.5 & <=2.5	Pass
50	NV	-28.90	-0.0083	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-34.40	-0.0098	>=-2.5 & <=2.5	Pass
				HV	-26.70	-0.0076	>=-2.5 & <=2.5	Pass
			-30	NV	-32.10	-0.0092	>=-2.5 & <=2.5	Pass
			-20	NV	-36.00	-0.0103	>=-2.5 & <=2.5	Pass
			-10	NV	-16.60	-0.0047	>=-2.5 & <=2.5	Pass
			0	NV	-28.40	-0.0081	>=-2.5 & <=2.5	Pass
			10	NV	-20.60	-0.0059	>=-2.5 & <=2.5	Pass
			20	NV	-32.00	-0.0091	>=-2.5 & <=2.5	Pass
			30	NV	-37.30	-0.0107	>=-2.5 & <=2.5	Pass
			40	NV	-26.20	-0.0075	>=-2.5 & <=2.5	Pass
50	NV	-34.70	-0.0099	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-37.00	-0.0106	>=-2.5 & <=2.5	Pass
				HV	-26.40	-0.0075	>=-2.5 & <=2.5	Pass
			-30	NV	-19.90	-0.0057	>=-2.5 & <=2.5	Pass
			-20	NV	-30.30	-0.0087	>=-2.5 & <=2.5	Pass
-10	NV	-36.80	-0.0105	>=-2.5 & <=2.5	Pass			

			0	NV	-37.50	-0.0107	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-27.40	-0.0078	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-34.80	-0.0099	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-33.20	-0.0095	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-37.10	-0.0106	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-39.60	-0.0113	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-36.30	-0.0104	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-29.90	-0.0085	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-36.80	-0.0105	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-28.20	-0.0081	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-30.90	-0.0088	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-23.60	-0.0067	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-34.40	-0.0098	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-20.60	-0.0059	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-35.00	-0.0100	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-31.50	-0.0090	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-31.40	-0.0090	$\geq -2.5$ & $\leq 2.5$	Pass

### 1.3 30k\_SISO\_40MHz

#### 1.3.1 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 QPSK	3500.01	Outer_Full	20	LV	-27.30	-0.0078	>=-2.5 & <=2.5	Pass
				HV	-39.70	-0.0113	>=-2.5 & <=2.5	Pass
			-30	NV	-30.80	-0.0088	>=-2.5 & <=2.5	Pass
			-20	NV	-22.20	-0.0063	>=-2.5 & <=2.5	Pass
			-10	NV	-35.60	-0.0102	>=-2.5 & <=2.5	Pass
			0	NV	-30.00	-0.0086	>=-2.5 & <=2.5	Pass
			10	NV	-36.90	-0.0105	>=-2.5 & <=2.5	Pass
			20	NV	-32.60	-0.0093	>=-2.5 & <=2.5	Pass
			30	NV	-37.30	-0.0107	>=-2.5 & <=2.5	Pass
			40	NV	-30.70	-0.0088	>=-2.5 & <=2.5	Pass
50	NV	-39.90	-0.0114	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-24.00	-0.0069	>=-2.5 & <=2.5	Pass
				HV	-30.70	-0.0088	>=-2.5 & <=2.5	Pass
			-30	NV	-28.00	-0.0080	>=-2.5 & <=2.5	Pass
			-20	NV	-23.80	-0.0068	>=-2.5 & <=2.5	Pass
			-10	NV	-33.50	-0.0096	>=-2.5 & <=2.5	Pass
			0	NV	-25.70	-0.0073	>=-2.5 & <=2.5	Pass
			10	NV	-27.90	-0.0080	>=-2.5 & <=2.5	Pass
			20	NV	-36.60	-0.0105	>=-2.5 & <=2.5	Pass
			30	NV	-35.50	-0.0101	>=-2.5 & <=2.5	Pass
			40	NV	-42.00	-0.0120	>=-2.5 & <=2.5	Pass
50	NV	-32.40	-0.0093	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-29.40	-0.0084	>=-2.5 & <=2.5	Pass
				HV	-45.40	-0.0130	>=-2.5 & <=2.5	Pass
			-30	NV	-40.50	-0.0116	>=-2.5 & <=2.5	Pass
			-20	NV	-35.50	-0.0101	>=-2.5 & <=2.5	Pass
			-10	NV	-17.40	-0.0050	>=-2.5 & <=2.5	Pass
			0	NV	-35.90	-0.0103	>=-2.5 & <=2.5	Pass
			10	NV	-33.70	-0.0096	>=-2.5 & <=2.5	Pass
			20	NV	-21.10	-0.0060	>=-2.5 & <=2.5	Pass
			30	NV	-32.30	-0.0092	>=-2.5 & <=2.5	Pass
			40	NV	-21.90	-0.0063	>=-2.5 & <=2.5	Pass
50	NV	-30.30	-0.0087	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-25.10	-0.0072	>=-2.5 & <=2.5	Pass
				HV	-41.60	-0.0119	>=-2.5 & <=2.5	Pass
			-30	NV	-17.70	-0.0051	>=-2.5 & <=2.5	Pass
			-20	NV	-20.00	-0.0057	>=-2.5 & <=2.5	Pass
			-10	NV	-30.90	-0.0088	>=-2.5 & <=2.5	Pass
			0	NV	-33.50	-0.0096	>=-2.5 & <=2.5	Pass
			10	NV	-22.80	-0.0065	>=-2.5 & <=2.5	Pass
			20	NV	-24.40	-0.0070	>=-2.5 & <=2.5	Pass
			30	NV	-37.90	-0.0108	>=-2.5 & <=2.5	Pass
			40	NV	-41.70	-0.0119	>=-2.5 & <=2.5	Pass
50	NV	-27.00	-0.0077	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-23.10	-0.0066	>=-2.5 & <=2.5	Pass
				HV	-13.80	-0.0039	>=-2.5 & <=2.5	Pass
			-30	NV	-27.60	-0.0079	>=-2.5 & <=2.5	Pass
			-20	NV	-32.70	-0.0093	>=-2.5 & <=2.5	Pass
-10	NV	-22.10	-0.0063	>=-2.5 & <=2.5	Pass			

			0	NV	-27.90	-0.0080	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-31.70	-0.0091	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-37.70	-0.0108	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-26.00	-0.0074	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-29.70	-0.0085	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-16.40	-0.0047	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-35.00	-0.0100	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-19.40	-0.0055	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-27.60	-0.0079	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-35.10	-0.0100	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-30.30	-0.0087	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-31.20	-0.0089	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-35.20	-0.0101	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-38.70	-0.0111	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-30.40	-0.0087	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-24.20	-0.0069	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-32.20	-0.0092	$\geq -2.5$ & $\leq 2.5$	Pass			

## 1.4 30k\_SISO\_50MHz

### 1.4.1 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 QPSK	3500.01	Outer_Full	20	LV	-35.60	-0.0102	>=-2.5 & <=2.5	Pass
				HV	-28.30	-0.0081	>=-2.5 & <=2.5	Pass
			-30	NV	-31.30	-0.0089	>=-2.5 & <=2.5	Pass
			-20	NV	-29.40	-0.0084	>=-2.5 & <=2.5	Pass
			-10	NV	-19.50	-0.0056	>=-2.5 & <=2.5	Pass
			0	NV	-25.10	-0.0072	>=-2.5 & <=2.5	Pass
			10	NV	-31.00	-0.0089	>=-2.5 & <=2.5	Pass
			20	NV	-27.30	-0.0078	>=-2.5 & <=2.5	Pass
			30	NV	-31.70	-0.0091	>=-2.5 & <=2.5	Pass
			40	NV	-36.80	-0.0105	>=-2.5 & <=2.5	Pass
50	NV	-39.30	-0.0112	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-30.30	-0.0087	>=-2.5 & <=2.5	Pass
				HV	-27.00	-0.0077	>=-2.5 & <=2.5	Pass
			-30	NV	-24.40	-0.0070	>=-2.5 & <=2.5	Pass
			-20	NV	-41.90	-0.0120	>=-2.5 & <=2.5	Pass
			-10	NV	-28.10	-0.0080	>=-2.5 & <=2.5	Pass
			0	NV	-34.10	-0.0097	>=-2.5 & <=2.5	Pass
			10	NV	-40.30	-0.0115	>=-2.5 & <=2.5	Pass
			20	NV	-41.40	-0.0118	>=-2.5 & <=2.5	Pass
			30	NV	-38.00	-0.0109	>=-2.5 & <=2.5	Pass
			40	NV	-24.70	-0.0071	>=-2.5 & <=2.5	Pass
50	NV	-25.60	-0.0073	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-36.30	-0.0104	>=-2.5 & <=2.5	Pass
				HV	-27.40	-0.0078	>=-2.5 & <=2.5	Pass
			-30	NV	-27.50	-0.0079	>=-2.5 & <=2.5	Pass
			-20	NV	-34.00	-0.0097	>=-2.5 & <=2.5	Pass
			-10	NV	-37.90	-0.0108	>=-2.5 & <=2.5	Pass
			0	NV	-29.50	-0.0084	>=-2.5 & <=2.5	Pass
			10	NV	-31.70	-0.0091	>=-2.5 & <=2.5	Pass
			20	NV	-33.80	-0.0097	>=-2.5 & <=2.5	Pass
			30	NV	-35.10	-0.0100	>=-2.5 & <=2.5	Pass
			40	NV	-27.80	-0.0079	>=-2.5 & <=2.5	Pass
50	NV	-25.80	-0.0074	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-35.50	-0.0101	>=-2.5 & <=2.5	Pass
				HV	-31.80	-0.0091	>=-2.5 & <=2.5	Pass
			-30	NV	-34.90	-0.0100	>=-2.5 & <=2.5	Pass
			-20	NV	-37.40	-0.0107	>=-2.5 & <=2.5	Pass
			-10	NV	-36.00	-0.0103	>=-2.5 & <=2.5	Pass
			0	NV	-28.80	-0.0082	>=-2.5 & <=2.5	Pass
			10	NV	-30.10	-0.0086	>=-2.5 & <=2.5	Pass
			20	NV	-34.50	-0.0099	>=-2.5 & <=2.5	Pass
			30	NV	-20.30	-0.0058	>=-2.5 & <=2.5	Pass
			40	NV	-34.00	-0.0097	>=-2.5 & <=2.5	Pass
50	NV	-30.40	-0.0087	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-30.50	-0.0087	>=-2.5 & <=2.5	Pass
				HV	-26.70	-0.0076	>=-2.5 & <=2.5	Pass
			-30	NV	-29.50	-0.0084	>=-2.5 & <=2.5	Pass
			-20	NV	-29.10	-0.0083	>=-2.5 & <=2.5	Pass
-10	NV	-42.10	-0.0120	>=-2.5 & <=2.5	Pass			

			0	NV	-23.10	-0.0066	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-15.50	-0.0044	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-35.20	-0.0101	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-29.20	-0.0083	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-35.80	-0.0102	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-31.80	-0.0091	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-25.30	-0.0072	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-34.00	-0.0097	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-31.20	-0.0089	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-31.80	-0.0091	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-30.00	-0.0086	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-26.40	-0.0075	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-27.70	-0.0079	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-12.50	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-30.80	-0.0088	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-25.30	-0.0072	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-30.20	-0.0086	$\geq -2.5$ & $\leq 2.5$	Pass



1.5 30k\_SISO\_60MHz

1.5.1 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 QPSK	3500.01	Outer_Full	20	LV	-21.70	-0.0062	>=-2.5 & <=2.5	Pass
				HV	-29.30	-0.0084	>=-2.5 & <=2.5	Pass
			-30	NV	-38.70	-0.0111	>=-2.5 & <=2.5	Pass
			-20	NV	-40.90	-0.0117	>=-2.5 & <=2.5	Pass
			-10	NV	-41.20	-0.0118	>=-2.5 & <=2.5	Pass
			0	NV	-29.10	-0.0083	>=-2.5 & <=2.5	Pass
			10	NV	-39.50	-0.0113	>=-2.5 & <=2.5	Pass
			20	NV	-38.10	-0.0109	>=-2.5 & <=2.5	Pass
			30	NV	-28.50	-0.0081	>=-2.5 & <=2.5	Pass
			40	NV	-22.10	-0.0063	>=-2.5 & <=2.5	Pass
50	NV	-14.40	-0.0041	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-27.40	-0.0078	>=-2.5 & <=2.5	Pass
				HV	-30.40	-0.0087	>=-2.5 & <=2.5	Pass
			-30	NV	-27.50	-0.0079	>=-2.5 & <=2.5	Pass
			-20	NV	-25.30	-0.0072	>=-2.5 & <=2.5	Pass
			-10	NV	-26.90	-0.0077	>=-2.5 & <=2.5	Pass
			0	NV	-31.40	-0.0090	>=-2.5 & <=2.5	Pass
			10	NV	-25.70	-0.0073	>=-2.5 & <=2.5	Pass
			20	NV	-28.30	-0.0081	>=-2.5 & <=2.5	Pass
			30	NV	-46.30	-0.0132	>=-2.5 & <=2.5	Pass
			40	NV	-30.00	-0.0086	>=-2.5 & <=2.5	Pass
50	NV	-38.30	-0.0109	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-24.40	-0.0070	>=-2.5 & <=2.5	Pass
				HV	-24.90	-0.0071	>=-2.5 & <=2.5	Pass
			-30	NV	-25.30	-0.0072	>=-2.5 & <=2.5	Pass
			-20	NV	-33.90	-0.0097	>=-2.5 & <=2.5	Pass
			-10	NV	-39.20	-0.0112	>=-2.5 & <=2.5	Pass
			0	NV	-25.10	-0.0072	>=-2.5 & <=2.5	Pass
			10	NV	-25.40	-0.0073	>=-2.5 & <=2.5	Pass
			20	NV	-37.40	-0.0107	>=-2.5 & <=2.5	Pass
			30	NV	-20.50	-0.0059	>=-2.5 & <=2.5	Pass
			40	NV	-17.10	-0.0049	>=-2.5 & <=2.5	Pass
50	NV	-31.50	-0.0090	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-10.20	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-36.80	-0.0105	>=-2.5 & <=2.5	Pass
			-30	NV	-32.50	-0.0093	>=-2.5 & <=2.5	Pass
			-20	NV	-24.40	-0.0070	>=-2.5 & <=2.5	Pass
			-10	NV	-34.40	-0.0098	>=-2.5 & <=2.5	Pass
			0	NV	-38.40	-0.0110	>=-2.5 & <=2.5	Pass
			10	NV	-26.40	-0.0075	>=-2.5 & <=2.5	Pass
			20	NV	-24.70	-0.0071	>=-2.5 & <=2.5	Pass
			30	NV	-39.80	-0.0114	>=-2.5 & <=2.5	Pass
			40	NV	-38.20	-0.0109	>=-2.5 & <=2.5	Pass
50	NV	-22.70	-0.0065	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-28.70	-0.0082	>=-2.5 & <=2.5	Pass
				HV	-37.00	-0.0106	>=-2.5 & <=2.5	Pass
			-30	NV	-25.40	-0.0073	>=-2.5 & <=2.5	Pass
			-20	NV	-38.00	-0.0109	>=-2.5 & <=2.5	Pass
-10	NV	-45.50	-0.0130	>=-2.5 & <=2.5	Pass			

			0	NV	-33.60	-0.0096	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-17.70	-0.0051	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-12.30	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-34.50	-0.0099	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-20.80	-0.0059	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-27.00	-0.0077	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-32.60	-0.0093	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-26.80	-0.0077	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-12.80	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-21.70	-0.0062	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-28.50	-0.0081	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-20.70	-0.0059	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-27.30	-0.0078	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-31.20	-0.0089	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-21.70	-0.0062	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-28.30	-0.0081	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-45.60	-0.0130	$\geq -2.5$ & $\leq 2.5$	Pass

1.6 30k\_SISO\_70MHz

1.6.1 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 QPSK	3500.01	Outer_Full	20	LV	-25.80	-0.0074	>=-2.5 & <=2.5	Pass
				HV	-26.50	-0.0076	>=-2.5 & <=2.5	Pass
			-30	NV	-23.10	-0.0066	>=-2.5 & <=2.5	Pass
			-20	NV	-20.20	-0.0058	>=-2.5 & <=2.5	Pass
			-10	NV	-30.30	-0.0087	>=-2.5 & <=2.5	Pass
			0	NV	-39.00	-0.0111	>=-2.5 & <=2.5	Pass
			10	NV	-27.80	-0.0079	>=-2.5 & <=2.5	Pass
			20	NV	-30.50	-0.0087	>=-2.5 & <=2.5	Pass
			30	NV	-28.20	-0.0081	>=-2.5 & <=2.5	Pass
			40	NV	-33.70	-0.0096	>=-2.5 & <=2.5	Pass
50	NV	-22.00	-0.0063	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-25.00	-0.0071	>=-2.5 & <=2.5	Pass
				HV	-40.60	-0.0116	>=-2.5 & <=2.5	Pass
			-30	NV	-40.50	-0.0116	>=-2.5 & <=2.5	Pass
			-20	NV	-28.80	-0.0082	>=-2.5 & <=2.5	Pass
			-10	NV	-25.90	-0.0074	>=-2.5 & <=2.5	Pass
			0	NV	-36.60	-0.0105	>=-2.5 & <=2.5	Pass
			10	NV	-31.00	-0.0089	>=-2.5 & <=2.5	Pass
			20	NV	-33.00	-0.0094	>=-2.5 & <=2.5	Pass
			30	NV	-36.30	-0.0104	>=-2.5 & <=2.5	Pass
			40	NV	-25.60	-0.0073	>=-2.5 & <=2.5	Pass
50	NV	-31.50	-0.0090	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-35.20	-0.0101	>=-2.5 & <=2.5	Pass
				HV	-37.10	-0.0106	>=-2.5 & <=2.5	Pass
			-30	NV	-29.10	-0.0083	>=-2.5 & <=2.5	Pass
			-20	NV	-35.30	-0.0101	>=-2.5 & <=2.5	Pass
			-10	NV	-28.70	-0.0082	>=-2.5 & <=2.5	Pass
			0	NV	-41.10	-0.0117	>=-2.5 & <=2.5	Pass
			10	NV	-34.60	-0.0099	>=-2.5 & <=2.5	Pass
			20	NV	-25.40	-0.0073	>=-2.5 & <=2.5	Pass
			30	NV	-29.00	-0.0083	>=-2.5 & <=2.5	Pass
			40	NV	-35.90	-0.0103	>=-2.5 & <=2.5	Pass
50	NV	-33.00	-0.0094	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-19.40	-0.0055	>=-2.5 & <=2.5	Pass
				HV	-40.80	-0.0117	>=-2.5 & <=2.5	Pass
			-30	NV	-25.10	-0.0072	>=-2.5 & <=2.5	Pass
			-20	NV	-34.20	-0.0098	>=-2.5 & <=2.5	Pass
			-10	NV	-25.90	-0.0074	>=-2.5 & <=2.5	Pass
			0	NV	-28.20	-0.0081	>=-2.5 & <=2.5	Pass
			10	NV	-27.20	-0.0078	>=-2.5 & <=2.5	Pass
			20	NV	-35.50	-0.0101	>=-2.5 & <=2.5	Pass
			30	NV	-29.70	-0.0085	>=-2.5 & <=2.5	Pass
			40	NV	-21.50	-0.0061	>=-2.5 & <=2.5	Pass
50	NV	-43.60	-0.0125	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-39.00	-0.0111	>=-2.5 & <=2.5	Pass
				HV	-46.20	-0.0132	>=-2.5 & <=2.5	Pass
			-30	NV	-31.50	-0.0090	>=-2.5 & <=2.5	Pass
			-20	NV	-32.40	-0.0093	>=-2.5 & <=2.5	Pass
-10	NV	-30.90	-0.0088	>=-2.5 & <=2.5	Pass			

			0	NV	-29.60	-0.0085	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-32.10	-0.0092	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-35.60	-0.0102	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-31.60	-0.0090	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-36.80	-0.0105	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-25.90	-0.0074	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-26.90	-0.0077	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-31.40	-0.0090	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-34.80	-0.0099	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-28.40	-0.0081	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-32.80	-0.0094	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-29.80	-0.0085	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-38.20	-0.0109	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-35.00	-0.0100	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-22.50	-0.0064	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-42.50	-0.0121	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-39.70	-0.0113	$\geq -2.5$ & $\leq 2.5$	Pass			

1.7 30k\_SISO\_80MHz

1.7.1 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 QPSK	3500.01	Outer_Full	20	LV	-47.30	-0.0135	>=-2.5 & <=2.5	Pass
				HV	-31.60	-0.0090	>=-2.5 & <=2.5	Pass
			-30	NV	-34.10	-0.0097	>=-2.5 & <=2.5	Pass
			-20	NV	-40.40	-0.0115	>=-2.5 & <=2.5	Pass
			-10	NV	-34.20	-0.0098	>=-2.5 & <=2.5	Pass
			0	NV	-37.30	-0.0107	>=-2.5 & <=2.5	Pass
			10	NV	-29.70	-0.0085	>=-2.5 & <=2.5	Pass
			20	NV	-28.60	-0.0082	>=-2.5 & <=2.5	Pass
			30	NV	-38.20	-0.0109	>=-2.5 & <=2.5	Pass
			40	NV	-50.20	-0.0143	>=-2.5 & <=2.5	Pass
50	NV	-36.90	-0.0105	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-32.40	-0.0093	>=-2.5 & <=2.5	Pass
				HV	-40.60	-0.0116	>=-2.5 & <=2.5	Pass
			-30	NV	-38.60	-0.0110	>=-2.5 & <=2.5	Pass
			-20	NV	-30.00	-0.0086	>=-2.5 & <=2.5	Pass
			-10	NV	-13.60	-0.0039	>=-2.5 & <=2.5	Pass
			0	NV	-33.10	-0.0095	>=-2.5 & <=2.5	Pass
			10	NV	-21.00	-0.0060	>=-2.5 & <=2.5	Pass
			20	NV	-23.80	-0.0068	>=-2.5 & <=2.5	Pass
			30	NV	-27.70	-0.0079	>=-2.5 & <=2.5	Pass
			40	NV	-36.70	-0.0105	>=-2.5 & <=2.5	Pass
50	NV	-40.70	-0.0116	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-43.30	-0.0124	>=-2.5 & <=2.5	Pass
				HV	-29.60	-0.0085	>=-2.5 & <=2.5	Pass
			-30	NV	-25.80	-0.0074	>=-2.5 & <=2.5	Pass
			-20	NV	-31.00	-0.0089	>=-2.5 & <=2.5	Pass
			-10	NV	-34.30	-0.0098	>=-2.5 & <=2.5	Pass
			0	NV	-44.60	-0.0127	>=-2.5 & <=2.5	Pass
			10	NV	-36.40	-0.0104	>=-2.5 & <=2.5	Pass
			20	NV	-19.30	-0.0055	>=-2.5 & <=2.5	Pass
			30	NV	-31.60	-0.0090	>=-2.5 & <=2.5	Pass
			40	NV	-48.30	-0.0138	>=-2.5 & <=2.5	Pass
50	NV	-35.90	-0.0103	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-21.20	-0.0061	>=-2.5 & <=2.5	Pass
				HV	-25.00	-0.0071	>=-2.5 & <=2.5	Pass
			-30	NV	-22.80	-0.0065	>=-2.5 & <=2.5	Pass
			-20	NV	-26.40	-0.0075	>=-2.5 & <=2.5	Pass
			-10	NV	-34.70	-0.0099	>=-2.5 & <=2.5	Pass
			0	NV	-32.40	-0.0093	>=-2.5 & <=2.5	Pass
			10	NV	-39.70	-0.0113	>=-2.5 & <=2.5	Pass
			20	NV	-28.00	-0.0080	>=-2.5 & <=2.5	Pass
			30	NV	-20.90	-0.0060	>=-2.5 & <=2.5	Pass
			40	NV	-26.50	-0.0076	>=-2.5 & <=2.5	Pass
50	NV	-32.00	-0.0091	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-21.80	-0.0062	>=-2.5 & <=2.5	Pass
				HV	-25.20	-0.0072	>=-2.5 & <=2.5	Pass
			-30	NV	-17.80	-0.0051	>=-2.5 & <=2.5	Pass
			-20	NV	-47.10	-0.0135	>=-2.5 & <=2.5	Pass
-10	NV	-27.90	-0.0080	>=-2.5 & <=2.5	Pass			

			0	NV	-24.80	-0.0071	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-24.70	-0.0071	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-27.30	-0.0078	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-36.50	-0.0104	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-22.40	-0.0064	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-39.40	-0.0113	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-31.80	-0.0091	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-43.00	-0.0123	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-17.60	-0.0050	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-37.80	-0.0108	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-15.90	-0.0045	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-34.90	-0.0100	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-19.50	-0.0056	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-20.50	-0.0059	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-37.40	-0.0107	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-33.30	-0.0095	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-49.60	-0.0142	$\geq -2.5$ & $\leq 2.5$	Pass			

1.8 30k\_SISO\_90MHz

1.8.1 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 QPSK	3500.01	Outer_Full	20	LV	-43.40	-0.0124	>=-2.5 & <=2.5	Pass
				HV	-28.30	-0.0081	>=-2.5 & <=2.5	Pass
			-30	NV	-42.60	-0.0122	>=-2.5 & <=2.5	Pass
			-20	NV	-32.00	-0.0091	>=-2.5 & <=2.5	Pass
			-10	NV	-26.10	-0.0075	>=-2.5 & <=2.5	Pass
			0	NV	-42.60	-0.0122	>=-2.5 & <=2.5	Pass
			10	NV	-30.90	-0.0088	>=-2.5 & <=2.5	Pass
			20	NV	-31.20	-0.0089	>=-2.5 & <=2.5	Pass
			30	NV	-22.90	-0.0065	>=-2.5 & <=2.5	Pass
			40	NV	-44.10	-0.0126	>=-2.5 & <=2.5	Pass
50	NV	-30.60	-0.0087	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-38.90	-0.0111	>=-2.5 & <=2.5	Pass
				HV	-33.60	-0.0096	>=-2.5 & <=2.5	Pass
			-30	NV	-33.80	-0.0097	>=-2.5 & <=2.5	Pass
			-20	NV	-17.40	-0.0050	>=-2.5 & <=2.5	Pass
			-10	NV	-37.90	-0.0108	>=-2.5 & <=2.5	Pass
			0	NV	-31.30	-0.0089	>=-2.5 & <=2.5	Pass
			10	NV	-22.80	-0.0065	>=-2.5 & <=2.5	Pass
			20	NV	-37.00	-0.0106	>=-2.5 & <=2.5	Pass
			30	NV	-30.80	-0.0088	>=-2.5 & <=2.5	Pass
			40	NV	-37.70	-0.0108	>=-2.5 & <=2.5	Pass
50	NV	-29.10	-0.0083	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-41.20	-0.0118	>=-2.5 & <=2.5	Pass
				HV	-37.10	-0.0106	>=-2.5 & <=2.5	Pass
			-30	NV	-39.80	-0.0114	>=-2.5 & <=2.5	Pass
			-20	NV	-32.20	-0.0092	>=-2.5 & <=2.5	Pass
			-10	NV	-35.50	-0.0101	>=-2.5 & <=2.5	Pass
			0	NV	-37.70	-0.0108	>=-2.5 & <=2.5	Pass
			10	NV	-35.60	-0.0102	>=-2.5 & <=2.5	Pass
			20	NV	-33.40	-0.0095	>=-2.5 & <=2.5	Pass
			30	NV	-39.10	-0.0112	>=-2.5 & <=2.5	Pass
			40	NV	-22.40	-0.0064	>=-2.5 & <=2.5	Pass
50	NV	-38.50	-0.0110	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-23.90	-0.0068	>=-2.5 & <=2.5	Pass
				HV	-28.90	-0.0083	>=-2.5 & <=2.5	Pass
			-30	NV	-21.20	-0.0061	>=-2.5 & <=2.5	Pass
			-20	NV	-24.80	-0.0071	>=-2.5 & <=2.5	Pass
			-10	NV	-19.50	-0.0056	>=-2.5 & <=2.5	Pass
			0	NV	-34.60	-0.0099	>=-2.5 & <=2.5	Pass
			10	NV	-28.90	-0.0083	>=-2.5 & <=2.5	Pass
			20	NV	-21.30	-0.0061	>=-2.5 & <=2.5	Pass
			30	NV	-36.10	-0.0103	>=-2.5 & <=2.5	Pass
			40	NV	-47.60	-0.0136	>=-2.5 & <=2.5	Pass
50	NV	-27.80	-0.0079	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-35.40	-0.0101	>=-2.5 & <=2.5	Pass
				HV	-27.80	-0.0079	>=-2.5 & <=2.5	Pass
			-30	NV	-24.90	-0.0071	>=-2.5 & <=2.5	Pass
			-20	NV	-41.10	-0.0117	>=-2.5 & <=2.5	Pass
-10	NV	-37.60	-0.0107	>=-2.5 & <=2.5	Pass			

			0	NV	-24.10	-0.0069	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-25.90	-0.0074	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-33.30	-0.0095	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-34.50	-0.0099	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-18.00	-0.0051	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-35.10	-0.0100	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-30.80	-0.0088	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-27.40	-0.0078	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-25.30	-0.0072	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-36.20	-0.0103	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-30.30	-0.0087	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-42.00	-0.0120	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-32.60	-0.0093	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-33.20	-0.0095	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-43.30	-0.0124	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-41.80	-0.0119	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-29.30	-0.0084	$\geq -2.5$ & $\leq 2.5$	Pass



1.9 30k\_SISO\_100MHz

1.9.1 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 QPSK	3500.01	Outer_Full	20	LV	-24.90	-0.0071	>=-2.5 & <=2.5	Pass
				HV	-31.80	-0.0091	>=-2.5 & <=2.5	Pass
			-30	NV	-31.00	-0.0089	>=-2.5 & <=2.5	Pass
			-20	NV	-32.50	-0.0093	>=-2.5 & <=2.5	Pass
			-10	NV	-16.70	-0.0048	>=-2.5 & <=2.5	Pass
			0	NV	-37.50	-0.0107	>=-2.5 & <=2.5	Pass
			10	NV	-39.80	-0.0114	>=-2.5 & <=2.5	Pass
			20	NV	-23.90	-0.0068	>=-2.5 & <=2.5	Pass
			30	NV	-31.00	-0.0089	>=-2.5 & <=2.5	Pass
			40	NV	-38.20	-0.0109	>=-2.5 & <=2.5	Pass
50	NV	-19.50	-0.0056	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-29.70	-0.0085	>=-2.5 & <=2.5	Pass
				HV	-18.00	-0.0051	>=-2.5 & <=2.5	Pass
			-30	NV	-37.50	-0.0107	>=-2.5 & <=2.5	Pass
			-20	NV	-23.60	-0.0067	>=-2.5 & <=2.5	Pass
			-10	NV	-36.30	-0.0104	>=-2.5 & <=2.5	Pass
			0	NV	-16.40	-0.0047	>=-2.5 & <=2.5	Pass
			10	NV	-19.20	-0.0055	>=-2.5 & <=2.5	Pass
			20	NV	-25.00	-0.0071	>=-2.5 & <=2.5	Pass
			30	NV	-38.10	-0.0109	>=-2.5 & <=2.5	Pass
			40	NV	-23.30	-0.0067	>=-2.5 & <=2.5	Pass
50	NV	-37.30	-0.0107	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-28.40	-0.0081	>=-2.5 & <=2.5	Pass
				HV	-38.80	-0.0111	>=-2.5 & <=2.5	Pass
			-30	NV	-30.50	-0.0087	>=-2.5 & <=2.5	Pass
			-20	NV	-26.80	-0.0077	>=-2.5 & <=2.5	Pass
			-10	NV	-37.00	-0.0106	>=-2.5 & <=2.5	Pass
			0	NV	-31.50	-0.0090	>=-2.5 & <=2.5	Pass
			10	NV	-27.60	-0.0079	>=-2.5 & <=2.5	Pass
			20	NV	-28.00	-0.0080	>=-2.5 & <=2.5	Pass
			30	NV	-25.10	-0.0072	>=-2.5 & <=2.5	Pass
			40	NV	-19.10	-0.0055	>=-2.5 & <=2.5	Pass
50	NV	-32.70	-0.0093	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-22.70	-0.0065	>=-2.5 & <=2.5	Pass
				HV	-17.70	-0.0051	>=-2.5 & <=2.5	Pass
			-30	NV	-19.60	-0.0056	>=-2.5 & <=2.5	Pass
			-20	NV	-24.10	-0.0069	>=-2.5 & <=2.5	Pass
			-10	NV	-28.70	-0.0082	>=-2.5 & <=2.5	Pass
			0	NV	-34.50	-0.0099	>=-2.5 & <=2.5	Pass
			10	NV	-28.70	-0.0082	>=-2.5 & <=2.5	Pass
			20	NV	-35.30	-0.0101	>=-2.5 & <=2.5	Pass
			30	NV	-30.90	-0.0088	>=-2.5 & <=2.5	Pass
			40	NV	-21.20	-0.0061	>=-2.5 & <=2.5	Pass
50	NV	-19.30	-0.0055	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-42.20	-0.0121	>=-2.5 & <=2.5	Pass
				HV	-22.40	-0.0064	>=-2.5 & <=2.5	Pass
			-30	NV	-21.30	-0.0061	>=-2.5 & <=2.5	Pass
			-20	NV	-30.60	-0.0087	>=-2.5 & <=2.5	Pass
-10	NV	-26.00	-0.0074	>=-2.5 & <=2.5	Pass			

			0	NV	-32.90	-0.0094	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-36.00	-0.0103	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-32.40	-0.0093	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-30.50	-0.0087	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-15.80	-0.0045	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-24.50	-0.0070	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-30.80	-0.0088	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-18.70	-0.0053	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-26.10	-0.0075	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-33.80	-0.0097	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-24.10	-0.0069	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-22.40	-0.0064	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-16.50	-0.0047	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-18.20	-0.0052	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-21.00	-0.0060	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-22.40	-0.0064	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-35.60	-0.0102	$\geq -2.5$ & $\leq 2.5$	Pass