

1. Frequency Stability

1.1 15k_SISO_5MHz

1.1.1 Test Result

5G NR n2 SCS=15kHz SISO 5MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	1880	Outer_Full	20	LV	-1.00	-0.0005	>=-2.5 & <=2.5	Pass
				HV	2.90	0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	2.20	0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-4.60	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-2.80	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-4.10	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-5.90	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-2.80	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-6.00	-0.0032	>=-2.5 & <=2.5	Pass
50	NV	-6.20	-0.0033	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	1880	Outer_Full	20	LV	-3.70	-0.0020	>=-2.5 & <=2.5	Pass
				HV	-2.20	-0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	-4.80	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-5.30	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-4.50	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	1.00	0.0005	>=-2.5 & <=2.5	Pass
			10	NV	-7.00	-0.0037	>=-2.5 & <=2.5	Pass
			20	NV	-3.10	-0.0016	>=-2.5 & <=2.5	Pass
			30	NV	-1.00	-0.0005	>=-2.5 & <=2.5	Pass
			40	NV	-1.90	-0.0010	>=-2.5 & <=2.5	Pass
50	NV	-0.70	-0.0004	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	1880	Outer_Full	20	LV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-1.80	-0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	-2.70	-0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	2.40	0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-8.30	-0.0044	>=-2.5 & <=2.5	Pass
			10	NV	-3.50	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-8.30	-0.0044	>=-2.5 & <=2.5	Pass
			30	NV	-6.30	-0.0034	>=-2.5 & <=2.5	Pass
			40	NV	-3.80	-0.0020	>=-2.5 & <=2.5	Pass
50	NV	-5.30	-0.0028	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	1880	Outer_Full	20	LV	-3.00	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-5.40	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-5.40	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-7.50	-0.0040	>=-2.5 & <=2.5	Pass
			-10	NV	-7.00	-0.0037	>=-2.5 & <=2.5	Pass
			0	NV	-6.30	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-1.30	-0.0007	>=-2.5 & <=2.5	Pass
			20	NV	1.60	0.0009	>=-2.5 & <=2.5	Pass
			30	NV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	2.40	0.0013	>=-2.5 & <=2.5	Pass
50	NV	-3.80	-0.0020	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	1880	Outer_Full	20	LV	-4.10	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-6.90	-0.0037	>=-2.5 & <=2.5	Pass

			-30	NV	-4.30	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-2.60	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-6.30	-0.0034	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-2.40	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-4.50	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-4.30	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-6.40	-0.0034	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-3.70	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-4.50	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM QPSK	1880	Outer_Full	20	LV	2.90	0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-4.80	-0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	4.20	0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-2.70	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-2.70	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-6.10	-0.0032	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-4.70	-0.0025	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	3.60	0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-5.60	-0.0030	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-5.90	-0.0031	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 16 QAM	1880	Outer_Full	20	LV	-5.20	-0.0028	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	4.80	0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	2.60	0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	2.30	0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-5.00	-0.0027	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	2.10	0.0011	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-3.50	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	4.50	0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-4.70	-0.0025	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-2.00	-0.0011	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 64 QAM	1880	Outer_Full	20	LV	-3.70	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-4.30	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-6.70	-0.0036	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-1.90	-0.0010	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-5.20	-0.0028	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-4.90	-0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	2.60	0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-5.20	-0.0028	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-4.00	-0.0021	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-4.80	-0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 256 QAM	1880	Outer_Full	20	LV	1.70	0.0009	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-3.50	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	1.60	0.0009	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	2.50	0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	5.30	0.0028	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	0.80	0.0004	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	2.30	0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-3.40	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	4.60	0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-5.00	-0.0027	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-3.20	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				NV	-3.20	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass

1.2 15k_SISO_10MHz

1.2.1 Test Result

5G NR n2 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	1880	Outer_Full	20	LV	-5.30	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-1.90	-0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	1.90	0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-2.20	-0.0012	>=-2.5 & <=2.5	Pass
			0	NV	-4.10	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-1.60	-0.0009	>=-2.5 & <=2.5	Pass
			20	NV	3.50	0.0019	>=-2.5 & <=2.5	Pass
			30	NV	7.90	0.0042	>=-2.5 & <=2.5	Pass
			40	NV	-1.90	-0.0010	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	1880	Outer_Full	20	LV	-2.50	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-4.60	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	2.70	0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-3.80	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-4.60	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-2.70	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-4.60	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-4.90	-0.0026	>=-2.5 & <=2.5	Pass
			40	NV	-4.30	-0.0023	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	1880	Outer_Full	20	LV	-5.70	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-4.10	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-3.10	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-3.80	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-5.20	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	-7.70	-0.0041	>=-2.5 & <=2.5	Pass
			10	NV	-3.80	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-2.60	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-7.10	-0.0038	>=-2.5 & <=2.5	Pass
			40	NV	-6.60	-0.0035	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	1880	Outer_Full	20	LV	-6.50	-0.0035	>=-2.5 & <=2.5	Pass
				HV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-2.70	-0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-2.80	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-5.30	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	-7.60	-0.0040	>=-2.5 & <=2.5	Pass
			10	NV	-5.10	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-4.90	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-5.10	-0.0027	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	1880	Outer_Full	20	LV	5.00	0.0027	>=-2.5 & <=2.5	Pass
				HV	-3.60	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-6.50	-0.0035	>=-2.5 & <=2.5	Pass
			-20	NV	4.50	0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-5.40	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-4.80	-0.0026	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	1880	Outer_Full	10	NV	-5.80	-0.0031	>=-2.5 & <=2.5	Pass

			20	NV	-4.90	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-8.70	-0.0046	>=-2.5 & <=2.5	Pass
			40	NV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
			50	NV	-5.40	-0.0029	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	1880	Outer_Full	20	LV	3.40	0.0018	>=-2.5 & <=2.5	Pass
				HV	5.70	0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	3.40	0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	4.80	0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	1.80	0.0010	>=-2.5 & <=2.5	Pass
			0	NV	5.30	0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-2.00	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-2.70	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	2.10	0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-4.40	-0.0023	>=-2.5 & <=2.5	Pass
			50	NV	2.60	0.0014	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	1880	Outer_Full	20	LV	5.50	0.0029	>=-2.5 & <=2.5	Pass
				HV	2.30	0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	4.30	0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	1.70	0.0009	>=-2.5 & <=2.5	Pass
			0	NV	9.50	0.0051	>=-2.5 & <=2.5	Pass
			10	NV	5.20	0.0028	>=-2.5 & <=2.5	Pass
			20	NV	2.50	0.0013	>=-2.5 & <=2.5	Pass
			30	NV	1.00	0.0005	>=-2.5 & <=2.5	Pass
			40	NV	-2.00	-0.0011	>=-2.5 & <=2.5	Pass
			50	NV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	1880	Outer_Full	20	LV	2.20	0.0012	>=-2.5 & <=2.5	Pass
				HV	1.80	0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	2.20	0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-2.60	-0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-2.00	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-7.90	-0.0042	>=-2.5 & <=2.5	Pass
			30	NV	-5.10	-0.0027	>=-2.5 & <=2.5	Pass
			40	NV	-3.60	-0.0019	>=-2.5 & <=2.5	Pass
			50	NV	-4.20	-0.0022	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	1880	Outer_Full	20	LV	-2.40	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-0.60	-0.0003	>=-2.5 & <=2.5	Pass
			-30	NV	-3.50	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-3.20	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-5.30	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	2.10	0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-0.80	-0.0004	>=-2.5 & <=2.5	Pass
			20	NV	-3.70	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	-1.70	-0.0009	>=-2.5 & <=2.5	Pass
			40	NV	4.20	0.0022	>=-2.5 & <=2.5	Pass
			50	NV	-4.20	-0.0022	>=-2.5 & <=2.5	Pass

1.3 15k_SISO_15MHz

1.3.1 Test Result

5G NR n2 SCS=15kHz SISO 15MHz							
Modulation	Frequency	RB	Temp.	Volt.	Freq. Error	Freq. vs. rated (ppm)	Verdict

	(MHz)	Allocation	(°C)		(Hz)	Result	Limit	
DFT-s-OFDM PI/2 BPSK	1880	Outer_Full	20	LV	-3.80	-0.0020	>=-2.5 & <=2.5	Pass
				HV	-5.00	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-6.20	-0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	-7.20	-0.0038	>=-2.5 & <=2.5	Pass
			0	NV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-5.70	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-2.50	-0.0013	>=-2.5 & <=2.5	Pass
			30	NV	-6.40	-0.0034	>=-2.5 & <=2.5	Pass
			40	NV	-5.50	-0.0029	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	1880	Outer_Full	20	LV	4.20	0.0022	>=-2.5 & <=2.5	Pass
				HV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	1.60	0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	-0.60	-0.0003	>=-2.5 & <=2.5	Pass
			-10	NV	3.70	0.0020	>=-2.5 & <=2.5	Pass
			0	NV	4.30	0.0023	>=-2.5 & <=2.5	Pass
			10	NV	2.50	0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	6.80	0.0036	>=-2.5 & <=2.5	Pass
			40	NV	1.90	0.0010	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	1880	Outer_Full	20	LV	-7.30	-0.0039	>=-2.5 & <=2.5	Pass
				HV	-4.80	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-4.90	-0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	-2.30	-0.0012	>=-2.5 & <=2.5	Pass
			0	NV	-2.70	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-4.10	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-5.70	-0.0030	>=-2.5 & <=2.5	Pass
			40	NV	-6.40	-0.0034	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	1880	Outer_Full	20	LV	-2.20	-0.0012	>=-2.5 & <=2.5	Pass
				HV	-3.20	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-6.20	-0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	-6.40	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-3.50	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	-5.20	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-7.60	-0.0040	>=-2.5 & <=2.5	Pass
			20	NV	-4.20	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-6.90	-0.0037	>=-2.5 & <=2.5	Pass
			40	NV	-2.60	-0.0014	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	1880	Outer_Full	20	LV	-4.40	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-3.50	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-4.10	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-2.30	-0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	-1.70	-0.0009	>=-2.5 & <=2.5	Pass
			0	NV	3.60	0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-4.50	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-6.60	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-8.10	-0.0043	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	1880	Outer_Full	20	LV	-2.30	-0.0012	>=-2.5 & <=2.5	Pass

				HV	-5.20	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-2.40	-0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-2.50	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	5.20	0.0028	>=-2.5 & <=2.5	Pass
			0	NV	1.80	0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-3.50	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	0.70	0.0004	>=-2.5 & <=2.5	Pass
			40	NV	-4.10	-0.0022	>=-2.5 & <=2.5	Pass
			50	NV	-3.60	-0.0019	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	1880	Outer_Full	20	LV	-1.60	-0.0009	>=-2.5 & <=2.5	Pass
				HV	1.70	0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	-1.30	-0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	2.20	0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	3.70	0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-2.20	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	3.80	0.0020	>=-2.5 & <=2.5	Pass
			20	NV	3.20	0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-3.70	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	3.00	0.0016	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	1880	Outer_Full	20	LV	-7.40	-0.0039	>=-2.5 & <=2.5	Pass
				HV	-1.80	-0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	-4.30	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	2.90	0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-4.50	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-1.80	-0.0010	>=-2.5 & <=2.5	Pass
			10	NV	4.50	0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-3.30	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-3.50	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-6.40	-0.0034	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	1880	Outer_Full	20	LV	4.30	0.0023	>=-2.5 & <=2.5	Pass
				HV	3.10	0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	2.60	0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-5.10	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	4.20	0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-2.30	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	4.90	0.0026	>=-2.5 & <=2.5	Pass
			30	NV	2.10	0.0011	>=-2.5 & <=2.5	Pass
			40	NV	3.70	0.0020	>=-2.5 & <=2.5	Pass
			50	NV	5.10	0.0027	>=-2.5 & <=2.5	Pass
				NV	5.10	0.0027	>=-2.5 & <=2.5	Pass

1.4 15k_SISO_20MHz

1.4.1 Test Result

5G NR n2 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	1880	Outer_Full	20	LV	5.00	0.0027	>=-2.5 & <=2.5	Pass
				HV	4.20	0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	3.10	0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	4.80	0.0026	>=-2.5 & <=2.5	Pass

			-10	NV	4.50	0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	5.40	0.0029	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	2.20	0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	5.90	0.0031	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	4.20	0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	4.20	0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	3.50	0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
DFT-s-OFDM QPSK	1880	Outer_Full	20	LV	3.10	0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	6.50	0.0035	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	7.60	0.0040	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	5.90	0.0031	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	6.80	0.0036	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	3.30	0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	5.50	0.0029	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	2.50	0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	8.80	0.0047	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	8.50	0.0045	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	6.80	0.0036	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
DFT-s-OFDM 16 QAM	1880	Outer_Full	20	LV	5.00	0.0027	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	7.00	0.0037	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	5.80	0.0031	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	8.80	0.0047	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	6.10	0.0032	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	4.60	0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	7.00	0.0037	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	6.50	0.0035	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	8.00	0.0043	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	5.80	0.0031	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	6.90	0.0037	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
DFT-s-OFDM 64 QAM	1880	Outer_Full	20	LV	8.10	0.0043	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	7.90	0.0042	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	6.90	0.0037	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	7.20	0.0038	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	4.00	0.0021	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	6.60	0.0035	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	11.40	0.0061	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	5.40	0.0029	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	4.80	0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	6.60	0.0035	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	11.20	0.0060	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
DFT-s-OFDM 256 QAM	1880	Outer_Full	20	LV	-4.60	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-2.30	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-5.00	-0.0027	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-3.20	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-7.50	-0.0040	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-3.40	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	1.50	0.0008	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-4.30	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-3.70	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-3.80	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-0.70	-0.0004	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM QPSK	1880	Outer_Full	20	LV	-2.30	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-2.60	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	2.70	0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	0.60	0.0003	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	3.00	0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	2.20	0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass

			10	NV	-1.50	-0.0008	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-3.50	-0.0019	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-1.60	-0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-2.10	-0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-2.30	-0.0012	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 16 QAM	1880	Outer_Full	20	LV	1.70	0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-4.40	-0.0023	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-2.10	-0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-3.10	-0.0016	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-3.20	-0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	2.10	0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-3.60	-0.0019	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-3.30	-0.0018	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	3.00	0.0016	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-0.90	-0.0005	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	2.10	0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 64 QAM	1880	Outer_Full	20	LV	-2.20	-0.0012	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	3.70	0.0020	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-4.50	-0.0024	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-4.40	-0.0023	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-2.90	-0.0015	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-1.60	-0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-3.40	-0.0018	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-2.90	-0.0015	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	3.20	0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-2.00	-0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-2.80	-0.0015	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 256 QAM	1880	Outer_Full	20	LV	-2.10	-0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-0.60	-0.0003	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-2.00	-0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-2.00	-0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-3.10	-0.0016	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-4.00	-0.0021	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-3.40	-0.0018	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-4.70	-0.0025	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	2.30	0.0012	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	0.90	0.0005	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-2.40	-0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass

2. Frequency Stability

2.1 15k_SISO_5MHz

2.1.1 Test Result

5G NR n5 SCS=15kHz SISO 5MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	836.5	Outer_Full	20	LV	-2.70	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-2.70	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-1.50	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-3.00	-0.0036	>=-2.5 & <=2.5	Pass
			-10	NV	-2.90	-0.0035	>=-2.5 & <=2.5	Pass
			0	NV	-4.30	-0.0051	>=-2.5 & <=2.5	Pass
			10	NV	-6.50	-0.0078	>=-2.5 & <=2.5	Pass
			20	NV	-5.10	-0.0061	>=-2.5 & <=2.5	Pass
			30	NV	-3.70	-0.0044	>=-2.5 & <=2.5	Pass
			40	NV	-5.60	-0.0067	>=-2.5 & <=2.5	Pass
50	NV	-1.30	-0.0016	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	836.5	Outer_Full	20	LV	-4.60	-0.0055	>=-2.5 & <=2.5	Pass
				HV	-4.90	-0.0059	>=-2.5 & <=2.5	Pass
			-30	NV	-6.10	-0.0073	>=-2.5 & <=2.5	Pass
			-20	NV	-6.30	-0.0075	>=-2.5 & <=2.5	Pass
			-10	NV	-5.80	-0.0069	>=-2.5 & <=2.5	Pass
			0	NV	-5.30	-0.0063	>=-2.5 & <=2.5	Pass
			10	NV	-4.60	-0.0055	>=-2.5 & <=2.5	Pass
			20	NV	-4.50	-0.0054	>=-2.5 & <=2.5	Pass
			30	NV	-3.20	-0.0038	>=-2.5 & <=2.5	Pass
			40	NV	-5.70	-0.0068	>=-2.5 & <=2.5	Pass
50	NV	-5.00	-0.0060	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	836.5	Outer_Full	20	LV	-5.40	-0.0065	>=-2.5 & <=2.5	Pass
				HV	-3.50	-0.0042	>=-2.5 & <=2.5	Pass
			-30	NV	-3.70	-0.0044	>=-2.5 & <=2.5	Pass
			-20	NV	-3.40	-0.0041	>=-2.5 & <=2.5	Pass
			-10	NV	-3.10	-0.0037	>=-2.5 & <=2.5	Pass
			0	NV	-3.50	-0.0042	>=-2.5 & <=2.5	Pass
			10	NV	-3.40	-0.0041	>=-2.5 & <=2.5	Pass
			20	NV	-3.80	-0.0045	>=-2.5 & <=2.5	Pass
			30	NV	-2.90	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-3.80	-0.0045	>=-2.5 & <=2.5	Pass
50	NV	-3.40	-0.0041	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	836.5	Outer_Full	20	LV	-5.40	-0.0065	>=-2.5 & <=2.5	Pass
				HV	-4.30	-0.0051	>=-2.5 & <=2.5	Pass
			-30	NV	-4.80	-0.0057	>=-2.5 & <=2.5	Pass
			-20	NV	-5.10	-0.0061	>=-2.5 & <=2.5	Pass
			-10	NV	-2.30	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-4.30	-0.0051	>=-2.5 & <=2.5	Pass
			10	NV	-4.80	-0.0057	>=-2.5 & <=2.5	Pass
			20	NV	-4.60	-0.0055	>=-2.5 & <=2.5	Pass
			30	NV	-5.00	-0.0060	>=-2.5 & <=2.5	Pass
			40	NV	-6.20	-0.0074	>=-2.5 & <=2.5	Pass
50	NV	-6.50	-0.0078	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	836.5	Outer_Full	20	LV	-5.80	-0.0069	>=-2.5 & <=2.5	Pass
				HV	-5.80	-0.0069	>=-2.5 & <=2.5	Pass

			-30	NV	-2.70	-0.0032	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-4.10	-0.0049	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-4.60	-0.0055	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-5.60	-0.0067	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-3.50	-0.0042	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-4.30	-0.0051	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-6.10	-0.0073	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-4.00	-0.0048	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-5.00	-0.0060	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM QPSK	836.5	Outer_Full	20	LV	-5.30	-0.0063	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-5.90	-0.0071	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-4.90	-0.0059	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-5.00	-0.0060	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-4.00	-0.0048	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-3.50	-0.0042	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-5.40	-0.0065	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-4.60	-0.0055	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-5.60	-0.0067	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-2.80	-0.0033	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 16 QAM	836.5	Outer_Full	20	LV	-3.00	-0.0036	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-4.90	-0.0059	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-4.20	-0.0050	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-4.30	-0.0051	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-4.50	-0.0054	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-2.10	-0.0025	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-4.10	-0.0049	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-3.80	-0.0045	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-4.60	-0.0055	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-4.10	-0.0049	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 64 QAM	836.5	Outer_Full	20	LV	-3.50	-0.0042	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-2.70	-0.0032	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-4.50	-0.0054	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-3.30	-0.0039	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-4.80	-0.0057	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-5.60	-0.0067	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-5.80	-0.0069	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-4.10	-0.0049	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-5.70	-0.0068	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-4.00	-0.0048	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 256 QAM	836.5	Outer_Full	20	LV	-4.30	-0.0051	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-5.30	-0.0063	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-4.60	-0.0055	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-5.80	-0.0069	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-4.10	-0.0049	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-5.40	-0.0065	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-3.60	-0.0043	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-3.60	-0.0043	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-3.90	-0.0047	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-7.80	-0.0093	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-4.90	-0.0059	$\geq -2.5 \ \& \ \leq 2.5$	Pass

2.2 15k_SISO_10MHz

2.2.1 Test Result

5G NR n5 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	836.5	Outer_Full	20	LV	-7.60	-0.0091	>=-2.5 & <=2.5	Pass
				HV	-5.90	-0.0071	>=-2.5 & <=2.5	Pass
			-30	NV	-7.80	-0.0093	>=-2.5 & <=2.5	Pass
			-20	NV	-6.70	-0.0080	>=-2.5 & <=2.5	Pass
			-10	NV	-9.30	-0.0111	>=-2.5 & <=2.5	Pass
			0	NV	-7.70	-0.0092	>=-2.5 & <=2.5	Pass
			10	NV	-9.20	-0.0110	>=-2.5 & <=2.5	Pass
			20	NV	-9.40	-0.0112	>=-2.5 & <=2.5	Pass
			30	NV	-7.60	-0.0091	>=-2.5 & <=2.5	Pass
			40	NV	-7.50	-0.0090	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	836.5	Outer_Full	20	LV	-6.50	-0.0078	>=-2.5 & <=2.5	Pass
				HV	-7.10	-0.0085	>=-2.5 & <=2.5	Pass
			-30	NV	-6.00	-0.0072	>=-2.5 & <=2.5	Pass
			-20	NV	-7.80	-0.0093	>=-2.5 & <=2.5	Pass
			-10	NV	-5.30	-0.0063	>=-2.5 & <=2.5	Pass
			0	NV	-5.90	-0.0071	>=-2.5 & <=2.5	Pass
			10	NV	-6.20	-0.0074	>=-2.5 & <=2.5	Pass
			20	NV	-6.60	-0.0079	>=-2.5 & <=2.5	Pass
			30	NV	-4.50	-0.0054	>=-2.5 & <=2.5	Pass
			40	NV	-5.60	-0.0067	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	836.5	Outer_Full	20	LV	-7.30	-0.0087	>=-2.5 & <=2.5	Pass
				HV	-6.30	-0.0075	>=-2.5 & <=2.5	Pass
			-30	NV	-5.40	-0.0065	>=-2.5 & <=2.5	Pass
			-20	NV	-7.70	-0.0092	>=-2.5 & <=2.5	Pass
			-10	NV	-5.80	-0.0069	>=-2.5 & <=2.5	Pass
			0	NV	-5.40	-0.0065	>=-2.5 & <=2.5	Pass
			10	NV	-6.60	-0.0079	>=-2.5 & <=2.5	Pass
			20	NV	-4.60	-0.0055	>=-2.5 & <=2.5	Pass
			30	NV	-7.60	-0.0091	>=-2.5 & <=2.5	Pass
			40	NV	-4.40	-0.0053	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	836.5	Outer_Full	20	LV	-7.80	-0.0093	>=-2.5 & <=2.5	Pass
				HV	-8.80	-0.0105	>=-2.5 & <=2.5	Pass
			-30	NV	-7.20	-0.0086	>=-2.5 & <=2.5	Pass
			-20	NV	-6.90	-0.0082	>=-2.5 & <=2.5	Pass
			-10	NV	-8.30	-0.0099	>=-2.5 & <=2.5	Pass
			0	NV	-7.00	-0.0084	>=-2.5 & <=2.5	Pass
			10	NV	-7.70	-0.0092	>=-2.5 & <=2.5	Pass
			20	NV	-9.00	-0.0108	>=-2.5 & <=2.5	Pass
			30	NV	-10.40	-0.0124	>=-2.5 & <=2.5	Pass
			40	NV	-7.80	-0.0093	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	836.5	Outer_Full	20	LV	-4.60	-0.0055	>=-2.5 & <=2.5	Pass
				HV	-5.60	-0.0067	>=-2.5 & <=2.5	Pass
			-30	NV	-3.80	-0.0045	>=-2.5 & <=2.5	Pass
			-20	NV	-4.50	-0.0054	>=-2.5 & <=2.5	Pass
			-10	NV	-4.70	-0.0056	>=-2.5 & <=2.5	Pass
			0	NV	-3.60	-0.0043	>=-2.5 & <=2.5	Pass
			10	NV	-6.20	-0.0074	>=-2.5 & <=2.5	Pass

			20	NV	-4.20	-0.0050	>=-2.5 & <=2.5	Pass
			30	NV	-4.30	-0.0051	>=-2.5 & <=2.5	Pass
			40	NV	-3.70	-0.0044	>=-2.5 & <=2.5	Pass
			50	NV	-6.20	-0.0074	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	836.5	Outer_Full	20	LV	-5.70	-0.0068	>=-2.5 & <=2.5	Pass
				HV	-2.60	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-2.60	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-2.00	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-5.30	-0.0063	>=-2.5 & <=2.5	Pass
			0	NV	-2.30	-0.0027	>=-2.5 & <=2.5	Pass
			10	NV	-3.40	-0.0041	>=-2.5 & <=2.5	Pass
			20	NV	-2.50	-0.0030	>=-2.5 & <=2.5	Pass
			30	NV	-2.60	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-3.50	-0.0042	>=-2.5 & <=2.5	Pass
			50	NV	-5.80	-0.0069	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	836.5	Outer_Full	20	LV	-7.50	-0.0090	>=-2.5 & <=2.5	Pass
				HV	-7.10	-0.0085	>=-2.5 & <=2.5	Pass
			-30	NV	-7.30	-0.0087	>=-2.5 & <=2.5	Pass
			-20	NV	-7.70	-0.0092	>=-2.5 & <=2.5	Pass
			-10	NV	-7.00	-0.0084	>=-2.5 & <=2.5	Pass
			0	NV	-5.70	-0.0068	>=-2.5 & <=2.5	Pass
			10	NV	-6.00	-0.0072	>=-2.5 & <=2.5	Pass
			20	NV	-6.40	-0.0077	>=-2.5 & <=2.5	Pass
			30	NV	-7.50	-0.0090	>=-2.5 & <=2.5	Pass
			40	NV	-6.10	-0.0073	>=-2.5 & <=2.5	Pass
			50	NV	-6.50	-0.0078	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	836.5	Outer_Full	20	LV	-3.30	-0.0039	>=-2.5 & <=2.5	Pass
				HV	-4.60	-0.0055	>=-2.5 & <=2.5	Pass
			-30	NV	-2.20	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-2.70	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-3.80	-0.0045	>=-2.5 & <=2.5	Pass
			0	NV	-2.90	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	1.80	0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-6.60	-0.0079	>=-2.5 & <=2.5	Pass
			30	NV	-3.00	-0.0036	>=-2.5 & <=2.5	Pass
			40	NV	-2.00	-0.0024	>=-2.5 & <=2.5	Pass
			50	NV	-2.10	-0.0025	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	836.5	Outer_Full	20	LV	-5.30	-0.0063	>=-2.5 & <=2.5	Pass
				HV	-4.80	-0.0057	>=-2.5 & <=2.5	Pass
			-30	NV	-3.10	-0.0037	>=-2.5 & <=2.5	Pass
			-20	NV	-5.00	-0.0060	>=-2.5 & <=2.5	Pass
			-10	NV	-3.40	-0.0041	>=-2.5 & <=2.5	Pass
			0	NV	-3.90	-0.0047	>=-2.5 & <=2.5	Pass
			10	NV	-3.90	-0.0047	>=-2.5 & <=2.5	Pass
			20	NV	-3.60	-0.0043	>=-2.5 & <=2.5	Pass
			30	NV	-3.40	-0.0041	>=-2.5 & <=2.5	Pass
			40	NV	-4.50	-0.0054	>=-2.5 & <=2.5	Pass
			50	NV	-4.70	-0.0056	>=-2.5 & <=2.5	Pass

2.3 15k_SISO_15MHz

2.3.1 Test Result

5G NR n5 SCS=15kHz SISO 15MHz							
Modulation	Frequency	RB	Temp.	Volt.	Freq. Error	Freq. vs. rated (ppm)	Verdict

	(MHz)	Allocation	(°C)		(Hz)	Result	Limit	
DFT-s-OFDM PI/2 BPSK	836.5	Outer_Full	20	LV	-9.70	-0.0116	>=-2.5 & <=2.5	Pass
				HV	-7.10	-0.0085	>=-2.5 & <=2.5	Pass
			-30	NV	-9.90	-0.0118	>=-2.5 & <=2.5	Pass
			-20	NV	-9.50	-0.0114	>=-2.5 & <=2.5	Pass
			-10	NV	-8.70	-0.0104	>=-2.5 & <=2.5	Pass
			0	NV	-7.90	-0.0094	>=-2.5 & <=2.5	Pass
			10	NV	-8.40	-0.0100	>=-2.5 & <=2.5	Pass
			20	NV	-7.40	-0.0088	>=-2.5 & <=2.5	Pass
			30	NV	-7.80	-0.0093	>=-2.5 & <=2.5	Pass
			40	NV	-7.30	-0.0087	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	836.5	Outer_Full	20	LV	-7.30	-0.0087	>=-2.5 & <=2.5	Pass
				HV	-6.30	-0.0075	>=-2.5 & <=2.5	Pass
			-30	NV	-11.00	-0.0132	>=-2.5 & <=2.5	Pass
			-20	NV	-7.60	-0.0091	>=-2.5 & <=2.5	Pass
			-10	NV	-5.10	-0.0061	>=-2.5 & <=2.5	Pass
			0	NV	-7.70	-0.0092	>=-2.5 & <=2.5	Pass
			10	NV	-7.90	-0.0094	>=-2.5 & <=2.5	Pass
			20	NV	-8.00	-0.0096	>=-2.5 & <=2.5	Pass
			30	NV	-9.50	-0.0114	>=-2.5 & <=2.5	Pass
			40	NV	-9.30	-0.0111	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	836.5	Outer_Full	20	LV	-7.90	-0.0094	>=-2.5 & <=2.5	Pass
				HV	-8.30	-0.0099	>=-2.5 & <=2.5	Pass
			-30	NV	-10.10	-0.0121	>=-2.5 & <=2.5	Pass
			-20	NV	-8.70	-0.0104	>=-2.5 & <=2.5	Pass
			-10	NV	-7.50	-0.0090	>=-2.5 & <=2.5	Pass
			0	NV	-8.10	-0.0097	>=-2.5 & <=2.5	Pass
			10	NV	-7.40	-0.0088	>=-2.5 & <=2.5	Pass
			20	NV	-8.40	-0.0100	>=-2.5 & <=2.5	Pass
			30	NV	-9.90	-0.0118	>=-2.5 & <=2.5	Pass
			40	NV	-5.30	-0.0063	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	836.5	Outer_Full	20	LV	-8.10	-0.0097	>=-2.5 & <=2.5	Pass
				HV	-8.00	-0.0096	>=-2.5 & <=2.5	Pass
			-30	NV	-8.70	-0.0104	>=-2.5 & <=2.5	Pass
			-20	NV	-6.90	-0.0082	>=-2.5 & <=2.5	Pass
			-10	NV	-8.30	-0.0099	>=-2.5 & <=2.5	Pass
			0	NV	-7.60	-0.0091	>=-2.5 & <=2.5	Pass
			10	NV	-7.60	-0.0091	>=-2.5 & <=2.5	Pass
			20	NV	-10.80	-0.0129	>=-2.5 & <=2.5	Pass
			30	NV	-9.20	-0.0110	>=-2.5 & <=2.5	Pass
			40	NV	-10.40	-0.0124	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	836.5	Outer_Full	20	LV	-7.20	-0.0086	>=-2.5 & <=2.5	Pass
				HV	-6.10	-0.0073	>=-2.5 & <=2.5	Pass
			-30	NV	-3.50	-0.0042	>=-2.5 & <=2.5	Pass
			-20	NV	-6.70	-0.0080	>=-2.5 & <=2.5	Pass
			-10	NV	-4.70	-0.0056	>=-2.5 & <=2.5	Pass
			0	NV	-3.50	-0.0042	>=-2.5 & <=2.5	Pass
			10	NV	-4.70	-0.0056	>=-2.5 & <=2.5	Pass
			20	NV	-5.50	-0.0066	>=-2.5 & <=2.5	Pass
			30	NV	-6.80	-0.0081	>=-2.5 & <=2.5	Pass
			40	NV	-4.80	-0.0057	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	836.5	Outer_Full	20	LV	-8.50	-0.0102	>=-2.5 & <=2.5	Pass

				HV	-5.70	-0.0068	>=-2.5 & <=2.5	Pass
			-30	NV	-7.10	-0.0085	>=-2.5 & <=2.5	Pass
			-20	NV	-4.50	-0.0054	>=-2.5 & <=2.5	Pass
			-10	NV	-6.00	-0.0072	>=-2.5 & <=2.5	Pass
			0	NV	-5.80	-0.0069	>=-2.5 & <=2.5	Pass
			10	NV	-5.30	-0.0063	>=-2.5 & <=2.5	Pass
			20	NV	-6.40	-0.0077	>=-2.5 & <=2.5	Pass
			30	NV	-7.50	-0.0090	>=-2.5 & <=2.5	Pass
			40	NV	-5.90	-0.0071	>=-2.5 & <=2.5	Pass
			50	NV	-6.90	-0.0082	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	836.5	Outer_Full	20	LV	-2.50	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-3.00	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-5.20	-0.0062	>=-2.5 & <=2.5	Pass
			-20	NV	-3.30	-0.0039	>=-2.5 & <=2.5	Pass
			-10	NV	-3.50	-0.0042	>=-2.5 & <=2.5	Pass
			0	NV	-3.90	-0.0047	>=-2.5 & <=2.5	Pass
			10	NV	-3.10	-0.0037	>=-2.5 & <=2.5	Pass
			20	NV	-2.80	-0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-4.10	-0.0049	>=-2.5 & <=2.5	Pass
			40	NV	-3.90	-0.0047	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	836.5	Outer_Full	20	LV	-5.70	-0.0068	>=-2.5 & <=2.5	Pass
				HV	-4.10	-0.0049	>=-2.5 & <=2.5	Pass
			-30	NV	-5.40	-0.0065	>=-2.5 & <=2.5	Pass
			-20	NV	-4.90	-0.0059	>=-2.5 & <=2.5	Pass
			-10	NV	-4.30	-0.0051	>=-2.5 & <=2.5	Pass
			0	NV	-6.00	-0.0072	>=-2.5 & <=2.5	Pass
			10	NV	-3.10	-0.0037	>=-2.5 & <=2.5	Pass
			20	NV	-4.80	-0.0057	>=-2.5 & <=2.5	Pass
			30	NV	-4.00	-0.0048	>=-2.5 & <=2.5	Pass
			40	NV	-3.30	-0.0039	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	836.5	Outer_Full	20	LV	-6.80	-0.0081	>=-2.5 & <=2.5	Pass
				HV	-4.00	-0.0048	>=-2.5 & <=2.5	Pass
			-30	NV	-5.50	-0.0066	>=-2.5 & <=2.5	Pass
			-20	NV	-5.10	-0.0061	>=-2.5 & <=2.5	Pass
			-10	NV	-3.90	-0.0047	>=-2.5 & <=2.5	Pass
			0	NV	-5.20	-0.0062	>=-2.5 & <=2.5	Pass
			10	NV	-6.30	-0.0075	>=-2.5 & <=2.5	Pass
			20	NV	-6.10	-0.0073	>=-2.5 & <=2.5	Pass
			30	NV	-6.30	-0.0075	>=-2.5 & <=2.5	Pass
			40	NV	-4.50	-0.0054	>=-2.5 & <=2.5	Pass
			50	NV	-3.80	-0.0045	>=-2.5 & <=2.5	Pass

2.4 15k_SISO_20MHz

2.4.1 Test Result

5G NR n5 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	836.5	Outer_Full	20	LV	3.10	0.0037	>=-2.5 & <=2.5	Pass
				HV	-3.20	-0.0038	>=-2.5 & <=2.5	Pass
			-30	NV	4.10	0.0049	>=-2.5 & <=2.5	Pass
			-20	NV	-2.10	-0.0025	>=-2.5 & <=2.5	Pass

			-10	NV	-3.40	-0.0041	>=-2.5 & <=2.5	Pass
			0	NV	1.30	0.0016	>=-2.5 & <=2.5	Pass
			10	NV	2.40	0.0029	>=-2.5 & <=2.5	Pass
			20	NV	4.20	0.0050	>=-2.5 & <=2.5	Pass
			30	NV	4.30	0.0051	>=-2.5 & <=2.5	Pass
			40	NV	3.60	0.0043	>=-2.5 & <=2.5	Pass
			50	NV	2.10	0.0025	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	836.5	Outer_Full	20	LV	1.60	0.0019	>=-2.5 & <=2.5	Pass
				HV	3.30	0.0039	>=-2.5 & <=2.5	Pass
			-30	NV	1.90	0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	3.10	0.0037	>=-2.5 & <=2.5	Pass
			-10	NV	1.20	0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-3.10	-0.0037	>=-2.5 & <=2.5	Pass
			10	NV	-1.20	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	3.90	0.0047	>=-2.5 & <=2.5	Pass
			30	NV	-2.10	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-1.70	-0.0020	>=-2.5 & <=2.5	Pass
50	NV	-1.60	-0.0019	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	836.5	Outer_Full	20	LV	-1.80	-0.0022	>=-2.5 & <=2.5	Pass
				HV	3.80	0.0045	>=-2.5 & <=2.5	Pass
			-30	NV	-1.30	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	4.90	0.0059	>=-2.5 & <=2.5	Pass
			-10	NV	4.70	0.0056	>=-2.5 & <=2.5	Pass
			0	NV	4.20	0.0050	>=-2.5 & <=2.5	Pass
			10	NV	2.80	0.0033	>=-2.5 & <=2.5	Pass
			20	NV	2.00	0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-3.40	-0.0041	>=-2.5 & <=2.5	Pass
			40	NV	2.50	0.0030	>=-2.5 & <=2.5	Pass
50	NV	-2.00	-0.0024	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	836.5	Outer_Full	20	LV	0.90	0.0011	>=-2.5 & <=2.5	Pass
				HV	2.90	0.0035	>=-2.5 & <=2.5	Pass
			-30	NV	1.50	0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-1.30	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	7.00	0.0084	>=-2.5 & <=2.5	Pass
			0	NV	-2.80	-0.0033	>=-2.5 & <=2.5	Pass
			10	NV	1.10	0.0013	>=-2.5 & <=2.5	Pass
			20	NV	3.00	0.0036	>=-2.5 & <=2.5	Pass
			30	NV	-3.50	-0.0042	>=-2.5 & <=2.5	Pass
			40	NV	3.40	0.0041	>=-2.5 & <=2.5	Pass
50	NV	-4.30	-0.0051	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	836.5	Outer_Full	20	LV	-3.50	-0.0042	>=-2.5 & <=2.5	Pass
				HV	-7.20	-0.0086	>=-2.5 & <=2.5	Pass
			-30	NV	-3.30	-0.0039	>=-2.5 & <=2.5	Pass
			-20	NV	-4.90	-0.0059	>=-2.5 & <=2.5	Pass
			-10	NV	-4.60	-0.0055	>=-2.5 & <=2.5	Pass
			0	NV	-3.80	-0.0045	>=-2.5 & <=2.5	Pass
			10	NV	-4.40	-0.0053	>=-2.5 & <=2.5	Pass
			20	NV	-2.30	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-3.50	-0.0042	>=-2.5 & <=2.5	Pass
			40	NV	-6.30	-0.0075	>=-2.5 & <=2.5	Pass
50	NV	-5.30	-0.0063	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	836.5	Outer_Full	20	LV	-3.90	-0.0047	>=-2.5 & <=2.5	Pass
				HV	-5.60	-0.0067	>=-2.5 & <=2.5	Pass
			-30	NV	-6.10	-0.0073	>=-2.5 & <=2.5	Pass
			-20	NV	-2.50	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-3.00	-0.0036	>=-2.5 & <=2.5	Pass
			0	NV	-2.50	-0.0030	>=-2.5 & <=2.5	Pass

			10	NV	-4.00	-0.0048	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-4.80	-0.0057	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-4.30	-0.0051	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-3.80	-0.0045	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-4.80	-0.0057	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 16 QAM	836.5	Outer_Full	20	LV	-4.10	-0.0049	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-4.10	-0.0049	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-5.20	-0.0062	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-2.40	-0.0029	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-2.10	-0.0025	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-2.80	-0.0033	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-4.00	-0.0048	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-4.80	-0.0057	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-4.50	-0.0054	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-2.80	-0.0033	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-4.50	-0.0054	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 64 QAM	836.5	Outer_Full	20	LV	-4.70	-0.0056	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-5.90	-0.0071	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-4.40	-0.0053	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-6.30	-0.0075	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-6.90	-0.0082	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-3.70	-0.0044	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-5.10	-0.0061	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-3.50	-0.0042	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-3.20	-0.0038	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-5.00	-0.0060	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-6.50	-0.0078	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 256 QAM	836.5	Outer_Full	20	LV	-5.30	-0.0063	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-3.10	-0.0037	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-3.10	-0.0037	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-3.70	-0.0044	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-6.00	-0.0072	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-4.40	-0.0053	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-4.50	-0.0054	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-4.80	-0.0057	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-4.50	-0.0054	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-4.10	-0.0049	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-5.10	-0.0061	$\geq -2.5 \ \& \ \leq 2.5$	Pass

3. Frequency Stability

3.1 30k_SISO_20MHz

3.1.1 Test Result

5G NR n41 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	2592.99	Outer_Full	20	LV	-19.30	-0.0074	>=-2.5 & <=2.5	Pass
				HV	-20.30	-0.0078	>=-2.5 & <=2.5	Pass
			-30	NV	-18.90	-0.0073	>=-2.5 & <=2.5	Pass
			-20	NV	-12.20	-0.0047	>=-2.5 & <=2.5	Pass
			-10	NV	-14.90	-0.0057	>=-2.5 & <=2.5	Pass
			0	NV	-13.70	-0.0053	>=-2.5 & <=2.5	Pass
			10	NV	-14.00	-0.0054	>=-2.5 & <=2.5	Pass
			20	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
50	NV	-13.80	-0.0053	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2592.99	Outer_Full	20	LV	-20.30	-0.0078	>=-2.5 & <=2.5	Pass
				HV	-26.30	-0.0101	>=-2.5 & <=2.5	Pass
			-30	NV	-11.40	-0.0044	>=-2.5 & <=2.5	Pass
			-20	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-18.30	-0.0071	>=-2.5 & <=2.5	Pass
			0	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-16.80	-0.0065	>=-2.5 & <=2.5	Pass
			20	NV	-10.40	-0.0040	>=-2.5 & <=2.5	Pass
			30	NV	-15.70	-0.0061	>=-2.5 & <=2.5	Pass
			40	NV	-13.00	-0.0050	>=-2.5 & <=2.5	Pass
50	NV	-13.60	-0.0052	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-16.30	-0.0063	>=-2.5 & <=2.5	Pass
				HV	-13.30	-0.0051	>=-2.5 & <=2.5	Pass
			-30	NV	-12.20	-0.0047	>=-2.5 & <=2.5	Pass
			-20	NV	-13.90	-0.0054	>=-2.5 & <=2.5	Pass
			-10	NV	-19.60	-0.0076	>=-2.5 & <=2.5	Pass
			0	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-17.20	-0.0066	>=-2.5 & <=2.5	Pass
			20	NV	-13.30	-0.0051	>=-2.5 & <=2.5	Pass
			30	NV	-10.90	-0.0042	>=-2.5 & <=2.5	Pass
			40	NV	-14.40	-0.0056	>=-2.5 & <=2.5	Pass
50	NV	-13.00	-0.0050	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-20.70	-0.0080	>=-2.5 & <=2.5	Pass
				HV	-13.50	-0.0052	>=-2.5 & <=2.5	Pass
			-30	NV	-12.10	-0.0047	>=-2.5 & <=2.5	Pass
			-20	NV	-11.70	-0.0045	>=-2.5 & <=2.5	Pass
			-10	NV	-13.90	-0.0054	>=-2.5 & <=2.5	Pass
			0	NV	-13.70	-0.0053	>=-2.5 & <=2.5	Pass
			10	NV	-14.10	-0.0054	>=-2.5 & <=2.5	Pass
			20	NV	-10.80	-0.0042	>=-2.5 & <=2.5	Pass
			30	NV	-11.70	-0.0045	>=-2.5 & <=2.5	Pass
			40	NV	-21.20	-0.0082	>=-2.5 & <=2.5	Pass
50	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-12.70	-0.0049	>=-2.5 & <=2.5	Pass
				HV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass

			-30	NV	-15.30	-0.0059	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-18.20	-0.0070	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-15.00	-0.0058	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-11.10	-0.0043	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-12.80	-0.0049	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-14.40	-0.0056	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-11.00	-0.0042	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-14.00	-0.0054	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-7.90	-0.0030	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM QPSK	2592.99	Outer_Full	20	LV	-16.40	-0.0063	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-16.70	-0.0064	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-8.70	-0.0034	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-7.90	-0.0030	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-13.10	-0.0051	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-12.90	-0.0050	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-11.60	-0.0045	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-5.40	-0.0021	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-13.30	-0.0051	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-15.00	-0.0058	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-15.60	-0.0060	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-17.20	-0.0066	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-11.30	-0.0044	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-9.30	-0.0036	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-17.30	-0.0067	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-7.90	-0.0030	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-13.60	-0.0052	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-10.50	-0.0040	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-8.30	-0.0032	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-13.70	-0.0053	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-6.20	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-12.20	-0.0047	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-12.80	-0.0049	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-8.10	-0.0031	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-13.00	-0.0050	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	8.00	0.0031	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-6.80	-0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-6.30	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-7.80	-0.0030	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-6.60	-0.0025	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-11.80	-0.0046	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-10.70	-0.0041	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-16.50	-0.0064	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-9.20	-0.0035	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-15.80	-0.0061	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-4.80	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-16.20	-0.0062	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-14.40	-0.0056	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-10.20	-0.0039	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-4.30	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-10.00	-0.0039	$\geq -2.5 \text{ \& } \leq 2.5$	Pass

3.2 30k_SISO_30MHz

3.2.1 Test Result

5G NR n41 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	2592.99	Outer_Full	20	LV	-13.60	-0.0052	>=-2.5 & <=2.5	Pass
				HV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
			-20	NV	-10.40	-0.0040	>=-2.5 & <=2.5	Pass
			-10	NV	-14.90	-0.0057	>=-2.5 & <=2.5	Pass
			0	NV	-12.00	-0.0046	>=-2.5 & <=2.5	Pass
			10	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-11.30	-0.0044	>=-2.5 & <=2.5	Pass
			30	NV	-11.60	-0.0045	>=-2.5 & <=2.5	Pass
			40	NV	-12.70	-0.0049	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2592.99	Outer_Full	20	LV	-7.80	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-9.30	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-3.20	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-11.40	-0.0044	>=-2.5 & <=2.5	Pass
			-10	NV	-11.70	-0.0045	>=-2.5 & <=2.5	Pass
			0	NV	-12.80	-0.0049	>=-2.5 & <=2.5	Pass
			10	NV	-10.50	-0.0040	>=-2.5 & <=2.5	Pass
			20	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-16.50	-0.0064	>=-2.5 & <=2.5	Pass
			40	NV	-14.30	-0.0055	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
				HV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-19.00	-0.0073	>=-2.5 & <=2.5	Pass
			-20	NV	-12.40	-0.0048	>=-2.5 & <=2.5	Pass
			-10	NV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
			0	NV	-18.90	-0.0073	>=-2.5 & <=2.5	Pass
			10	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
			20	NV	-15.40	-0.0059	>=-2.5 & <=2.5	Pass
			30	NV	-12.40	-0.0048	>=-2.5 & <=2.5	Pass
			40	NV	-11.60	-0.0045	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-17.20	-0.0066	>=-2.5 & <=2.5	Pass
			-20	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-11.70	-0.0045	>=-2.5 & <=2.5	Pass
			0	NV	-17.20	-0.0066	>=-2.5 & <=2.5	Pass
			10	NV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
			20	NV	-17.50	-0.0067	>=-2.5 & <=2.5	Pass
			30	NV	-14.70	-0.0057	>=-2.5 & <=2.5	Pass
			40	NV	-10.60	-0.0041	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-13.70	-0.0053	>=-2.5 & <=2.5	Pass
				HV	-14.80	-0.0057	>=-2.5 & <=2.5	Pass
			-30	NV	-12.80	-0.0049	>=-2.5 & <=2.5	Pass
			-20	NV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
			-10	NV	-20.60	-0.0079	>=-2.5 & <=2.5	Pass
			0	NV	-13.60	-0.0052	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2592.99	Outer_Full	10	NV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass

			20	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
			30	NV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass
			40	NV	-24.40	-0.0094	>=-2.5 & <=2.5	Pass
			50	NV	-12.00	-0.0046	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	2592.99	Outer_Full	20	LV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-10.30	-0.0040	>=-2.5 & <=2.5	Pass
			-20	NV	-13.20	-0.0051	>=-2.5 & <=2.5	Pass
			-10	NV	-12.80	-0.0049	>=-2.5 & <=2.5	Pass
			0	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			20	NV	-11.10	-0.0043	>=-2.5 & <=2.5	Pass
			30	NV	-11.20	-0.0043	>=-2.5 & <=2.5	Pass
			40	NV	-12.50	-0.0048	>=-2.5 & <=2.5	Pass
			50	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
				HV	-15.40	-0.0059	>=-2.5 & <=2.5	Pass
			-30	NV	-10.70	-0.0041	>=-2.5 & <=2.5	Pass
			-20	NV	-13.70	-0.0053	>=-2.5 & <=2.5	Pass
			-10	NV	-13.20	-0.0051	>=-2.5 & <=2.5	Pass
			0	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-13.60	-0.0052	>=-2.5 & <=2.5	Pass
			20	NV	-15.60	-0.0060	>=-2.5 & <=2.5	Pass
			30	NV	-16.20	-0.0062	>=-2.5 & <=2.5	Pass
			40	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2592.99	Outer_Full	50	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			20	LV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-12.80	-0.0049	>=-2.5 & <=2.5	Pass
			-30	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
			-10	NV	-10.60	-0.0041	>=-2.5 & <=2.5	Pass
			0	NV	-11.70	-0.0045	>=-2.5 & <=2.5	Pass
			10	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
			20	NV	-11.90	-0.0046	>=-2.5 & <=2.5	Pass
			30	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2592.99	Outer_Full	40	NV	-12.10	-0.0047	>=-2.5 & <=2.5	Pass
			50	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			20	LV	-11.60	-0.0045	>=-2.5 & <=2.5	Pass
				HV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-14.40	-0.0056	>=-2.5 & <=2.5	Pass
			-20	NV	-14.50	-0.0056	>=-2.5 & <=2.5	Pass
			-10	NV	-17.70	-0.0068	>=-2.5 & <=2.5	Pass
			0	NV	-12.60	-0.0049	>=-2.5 & <=2.5	Pass
			10	NV	-10.60	-0.0041	>=-2.5 & <=2.5	Pass
			20	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
			30	NV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			50	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass

3.3 30k_SISO_40MHz

3.3.1 Test Result

5G NR n41 SCS=30kHz SISO 40MHz							
Modulation	Frequency	RB	Temp.	Volt.	Freq. Error	Freq. vs. rated (ppm)	Verdict

	(MHz)	Allocation	(°C)		(Hz)	Result	Limit	
DFT-s-OFDM PI/2 BPSK	2592.99	Outer_Full	20	LV	-12.70	-0.0049	>=-2.5 & <=2.5	Pass
				HV	-17.00	-0.0066	>=-2.5 & <=2.5	Pass
			-30	NV	-10.90	-0.0042	>=-2.5 & <=2.5	Pass
			-20	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-14.50	-0.0056	>=-2.5 & <=2.5	Pass
			0	NV	-16.20	-0.0062	>=-2.5 & <=2.5	Pass
			10	NV	-18.10	-0.0070	>=-2.5 & <=2.5	Pass
			20	NV	-18.90	-0.0073	>=-2.5 & <=2.5	Pass
			30	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-11.80	-0.0046	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2592.99	Outer_Full	20	LV	-10.80	-0.0042	>=-2.5 & <=2.5	Pass
				HV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
			-30	NV	-15.40	-0.0059	>=-2.5 & <=2.5	Pass
			-20	NV	-15.70	-0.0061	>=-2.5 & <=2.5	Pass
			-10	NV	-14.10	-0.0054	>=-2.5 & <=2.5	Pass
			0	NV	-16.30	-0.0063	>=-2.5 & <=2.5	Pass
			10	NV	-13.80	-0.0053	>=-2.5 & <=2.5	Pass
			20	NV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass
			30	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass
			40	NV	-16.80	-0.0065	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-21.10	-0.0081	>=-2.5 & <=2.5	Pass
			-30	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	-12.00	-0.0046	>=-2.5 & <=2.5	Pass
			-10	NV	-13.10	-0.0051	>=-2.5 & <=2.5	Pass
			0	NV	-15.10	-0.0058	>=-2.5 & <=2.5	Pass
			10	NV	-18.30	-0.0071	>=-2.5 & <=2.5	Pass
			20	NV	-20.60	-0.0079	>=-2.5 & <=2.5	Pass
			30	NV	-15.60	-0.0060	>=-2.5 & <=2.5	Pass
			40	NV	-16.80	-0.0065	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-13.10	-0.0051	>=-2.5 & <=2.5	Pass
				HV	-12.10	-0.0047	>=-2.5 & <=2.5	Pass
			-30	NV	-18.30	-0.0071	>=-2.5 & <=2.5	Pass
			-20	NV	-16.00	-0.0062	>=-2.5 & <=2.5	Pass
			-10	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			0	NV	-10.40	-0.0040	>=-2.5 & <=2.5	Pass
			10	NV	-9.90	-0.0038	>=-2.5 & <=2.5	Pass
			20	NV	-14.90	-0.0057	>=-2.5 & <=2.5	Pass
			30	NV	-12.40	-0.0048	>=-2.5 & <=2.5	Pass
			40	NV	-12.90	-0.0050	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-12.70	-0.0049	>=-2.5 & <=2.5	Pass
				HV	-14.20	-0.0055	>=-2.5 & <=2.5	Pass
			-30	NV	-17.10	-0.0066	>=-2.5 & <=2.5	Pass
			-20	NV	-11.00	-0.0042	>=-2.5 & <=2.5	Pass
			-10	NV	-12.30	-0.0047	>=-2.5 & <=2.5	Pass
			0	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-13.80	-0.0053	>=-2.5 & <=2.5	Pass
			20	NV	-16.90	-0.0065	>=-2.5 & <=2.5	Pass
			30	NV	-15.00	-0.0058	>=-2.5 & <=2.5	Pass
			40	NV	-11.70	-0.0045	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	2592.99	Outer_Full	20	LV	-10.60	-0.0041	>=-2.5 & <=2.5	Pass

				HV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass
			0	NV	-13.20	-0.0051	>=-2.5 & <=2.5	Pass
			10	NV	-10.50	-0.0040	>=-2.5 & <=2.5	Pass
			20	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
			30	NV	-12.00	-0.0046	>=-2.5 & <=2.5	Pass
			40	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			50	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-9.20	-0.0035	>=-2.5 & <=2.5	Pass
				HV	-16.10	-0.0062	>=-2.5 & <=2.5	Pass
			-30	NV	-13.70	-0.0053	>=-2.5 & <=2.5	Pass
			-20	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-15.40	-0.0059	>=-2.5 & <=2.5	Pass
			0	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
			10	NV	-13.20	-0.0051	>=-2.5 & <=2.5	Pass
			20	NV	-13.00	-0.0050	>=-2.5 & <=2.5	Pass
			30	NV	-11.90	-0.0046	>=-2.5 & <=2.5	Pass
			40	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2592.99	Outer_Full	50	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			20	LV	-12.40	-0.0048	>=-2.5 & <=2.5	Pass
				HV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-15.20	-0.0059	>=-2.5 & <=2.5	Pass
			-20	NV	-14.90	-0.0057	>=-2.5 & <=2.5	Pass
			-10	NV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass
			0	NV	-18.00	-0.0069	>=-2.5 & <=2.5	Pass
			10	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
			30	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2592.99	Outer_Full	40	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			50	NV	-13.30	-0.0051	>=-2.5 & <=2.5	Pass
			20	LV	-12.30	-0.0047	>=-2.5 & <=2.5	Pass
				HV	-11.10	-0.0043	>=-2.5 & <=2.5	Pass
			-30	NV	-7.80	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-11.30	-0.0044	>=-2.5 & <=2.5	Pass
			-10	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			0	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			20	NV	-15.20	-0.0059	>=-2.5 & <=2.5	Pass
			30	NV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
			40	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			50	NV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass

3.4 30k_SISO_50MHz

3.4.1 Test Result

5G NR n41 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	2592.99	Outer_Full	20	LV	-12.50	-0.0048	>=-2.5 & <=2.5	Pass
				HV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			-20	NV	-11.50	-0.0044	>=-2.5 & <=2.5	Pass

			-10	NV	-14.50	-0.0056	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-14.30	-0.0055	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-10.10	-0.0039	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-9.20	-0.0035	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-11.80	-0.0046	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-10.60	-0.0041	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-7.60	-0.0029	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
DFT-s-OFDM QPSK	2592.99	Outer_Full	20	LV	-9.60	-0.0037	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-15.10	-0.0058	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-10.60	-0.0041	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-13.80	-0.0053	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-7.60	-0.0029	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-14.80	-0.0057	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-9.80	-0.0038	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-10.40	-0.0040	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-10.50	-0.0040	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-10.50	-0.0040	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-11.90	-0.0046	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
DFT-s-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-12.20	-0.0047	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-14.00	-0.0054	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-12.80	-0.0049	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-6.80	-0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-7.10	-0.0027	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-8.40	-0.0032	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-11.80	-0.0046	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-9.50	-0.0037	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-13.40	-0.0052	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-9.60	-0.0037	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-10.60	-0.0041	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
DFT-s-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-9.60	-0.0037	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-14.30	-0.0055	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-9.70	-0.0037	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-11.50	-0.0044	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-10.00	-0.0039	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-10.30	-0.0040	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-12.80	-0.0049	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-8.10	-0.0031	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-12.00	-0.0046	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-5.90	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-12.30	-0.0047	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
DFT-s-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-10.60	-0.0041	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-13.20	-0.0051	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-12.00	-0.0046	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-14.20	-0.0055	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-21.30	-0.0082	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-11.60	-0.0045	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-15.20	-0.0059	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-8.00	-0.0031	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-13.90	-0.0054	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-12.40	-0.0048	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-12.40	-0.0048	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM QPSK	2592.99	Outer_Full	20	LV	-12.90	-0.0050	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-11.40	-0.0044	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-8.20	-0.0032	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-9.80	-0.0038	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-13.80	-0.0053	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-10.50	-0.0040	$\geq -2.5 \text{ \& } \leq 2.5$	Pass

			10	NV	-15.40	-0.0059	>=-2.5 & <=2.5	Pass
			20	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			30	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			40	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
			50	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-14.40	-0.0056	>=-2.5 & <=2.5	Pass
				HV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-10.70	-0.0041	>=-2.5 & <=2.5	Pass
			-20	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
			0	NV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-15.10	-0.0058	>=-2.5 & <=2.5	Pass
			20	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-12.70	-0.0049	>=-2.5 & <=2.5	Pass
			40	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
			50	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-10.50	-0.0040	>=-2.5 & <=2.5	Pass
				HV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
			-20	NV	-11.70	-0.0045	>=-2.5 & <=2.5	Pass
			-10	NV	-13.90	-0.0054	>=-2.5 & <=2.5	Pass
			0	NV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
			10	NV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass
			20	NV	-11.20	-0.0043	>=-2.5 & <=2.5	Pass
			30	NV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
			40	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			50	NV	-13.00	-0.0050	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-13.70	-0.0053	>=-2.5 & <=2.5	Pass
				HV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-9.90	-0.0038	>=-2.5 & <=2.5	Pass
			-20	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-12.40	-0.0048	>=-2.5 & <=2.5	Pass
			0	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-13.20	-0.0051	>=-2.5 & <=2.5	Pass
			20	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			40	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
			50	NV	-13.00	-0.0050	>=-2.5 & <=2.5	Pass

3.5 30k_SISO_60MHz

3.5.1 Test Result

5G NR n41 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	2592.99	Outer_Full	20	LV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
				HV	-17.30	-0.0067	>=-2.5 & <=2.5	Pass
			-30	NV	-13.40	-0.0052	>=-2.5 & <=2.5	Pass
			-20	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	-14.10	-0.0054	>=-2.5 & <=2.5	Pass
			0	NV	-12.00	-0.0046	>=-2.5 & <=2.5	Pass
			10	NV	-12.10	-0.0047	>=-2.5 & <=2.5	Pass
			20	NV	-11.60	-0.0045	>=-2.5 & <=2.5	Pass
			30	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass

			40	NV	-15.60	-0.0060	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-10.30	-0.0040	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM QPSK	2592.99	Outer_Full	20	LV	-10.60	-0.0041	≥ -2.5 & ≤ 2.5	Pass
				HV	-15.40	-0.0059	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-6.00	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-10.70	-0.0041	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-19.00	-0.0073	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-4.80	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-9.80	-0.0038	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-11.00	-0.0042	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-21.30	-0.0082	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-10.80	-0.0042	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-9.50	-0.0037	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-16.90	-0.0065	≥ -2.5 & ≤ 2.5	Pass
				HV	-13.50	-0.0052	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-13.90	-0.0054	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-16.10	-0.0062	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-15.20	-0.0059	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-8.70	-0.0034	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-12.60	-0.0049	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-8.50	-0.0033	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-11.20	-0.0043	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-8.20	-0.0032	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-10.90	-0.0042	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-11.50	-0.0044	≥ -2.5 & ≤ 2.5	Pass
				HV	-17.40	-0.0067	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-5.50	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-17.00	-0.0066	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-19.50	-0.0075	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-15.00	-0.0058	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-10.80	-0.0042	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-13.30	-0.0051	≥ -2.5 & ≤ 2.5	Pass
			30	NV	4.40	0.0017	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-8.50	-0.0033	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-9.30	-0.0036	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-13.20	-0.0051	≥ -2.5 & ≤ 2.5	Pass
				HV	-9.30	-0.0036	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-16.50	-0.0064	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-13.30	-0.0051	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-11.10	-0.0043	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-7.00	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-13.90	-0.0054	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-13.60	-0.0052	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-17.80	-0.0069	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-7.50	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-5.30	-0.0020	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM QPSK	2592.99	Outer_Full	20	LV	-10.50	-0.0040	≥ -2.5 & ≤ 2.5	Pass
				HV	-5.40	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-12.40	-0.0048	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-10.30	-0.0040	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-8.50	-0.0033	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-10.40	-0.0040	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-7.40	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-9.30	-0.0036	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-15.60	-0.0060	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-12.10	-0.0047	≥ -2.5 & ≤ 2.5	Pass
			50	NV	2.40	0.0009	≥ -2.5 & ≤ 2.5	Pass

CP-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
				HV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass
			-30	NV	-10.20	-0.0039	>=-2.5 & <=2.5	Pass
			-20	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-10.80	-0.0042	>=-2.5 & <=2.5	Pass
			20	NV	-10.80	-0.0042	>=-2.5 & <=2.5	Pass
			30	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
			-30	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
			-20	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-12.30	-0.0047	>=-2.5 & <=2.5	Pass
			0	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass
			20	NV	-14.10	-0.0054	>=-2.5 & <=2.5	Pass
			30	NV	-15.70	-0.0061	>=-2.5 & <=2.5	Pass
			40	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-12.40	-0.0048	>=-2.5 & <=2.5	Pass
				HV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-15.10	-0.0058	>=-2.5 & <=2.5	Pass
			-20	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-15.70	-0.0061	>=-2.5 & <=2.5	Pass
			0	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass
			20	NV	-21.00	-0.0081	>=-2.5 & <=2.5	Pass
			30	NV	-12.70	-0.0049	>=-2.5 & <=2.5	Pass
			40	NV	-15.30	-0.0059	>=-2.5 & <=2.5	Pass
			50	NV	-11.50	-0.0044	>=-2.5 & <=2.5	Pass

3.6 30k_SISO_80MHz

3.6.1 Test Result

5G NR n41 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	2592.99	Outer_Full	20	LV	-14.00	-0.0054	>=-2.5 & <=2.5	Pass
				HV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
			-30	NV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass
			-20	NV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
			-10	NV	5.20	0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			10	NV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass
			20	NV	3.30	0.0013	>=-2.5 & <=2.5	Pass
			30	NV	1.30	0.0005	>=-2.5 & <=2.5	Pass
			40	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2592.99	Outer_Full	20	LV	-11.90	-0.0046	>=-2.5 & <=2.5	Pass
				HV	-10.80	-0.0042	>=-2.5 & <=2.5	Pass
			-30	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass

			-20	NV	-8.30	-0.0032	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-15.40	-0.0059	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-15.90	-0.0061	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-17.30	-0.0067	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-14.10	-0.0054	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-13.60	-0.0052	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-12.50	-0.0048	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-13.60	-0.0052	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
DFT-s-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-10.80	-0.0042	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-14.40	-0.0056	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-9.00	-0.0035	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	4.50	0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-18.60	-0.0072	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-11.40	-0.0044	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-13.70	-0.0053	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-10.90	-0.0042	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-7.80	-0.0030	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-12.20	-0.0047	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-8.90	-0.0034	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
DFT-s-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-18.40	-0.0071	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-6.50	-0.0025	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-8.10	-0.0031	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-16.40	-0.0063	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-7.10	-0.0027	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-9.80	-0.0038	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	4.20	0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-5.20	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-22.00	-0.0085	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-7.60	-0.0029	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-14.80	-0.0057	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
DFT-s-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-11.70	-0.0045	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-17.00	-0.0066	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-3.90	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-11.60	-0.0045	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-7.90	-0.0030	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-8.90	-0.0034	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-13.30	-0.0051	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-15.10	-0.0058	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-6.60	-0.0025	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-6.80	-0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-7.90	-0.0030	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM QPSK	2592.99	Outer_Full	20	LV	-9.20	-0.0035	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-3.10	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	5.20	0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-11.60	-0.0045	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-4.00	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-10.10	-0.0039	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-4.50	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-3.00	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-9.60	-0.0037	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-9.20	-0.0035	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	9.10	0.0035	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-6.90	-0.0027	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-14.30	-0.0055	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-3.20	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-12.30	-0.0047	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-5.60	-0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass

			0	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			10	NV	4.00	0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-14.10	-0.0054	>=-2.5 & <=2.5	Pass
			40	NV	-14.00	-0.0054	>=-2.5 & <=2.5	Pass
			50	NV	-12.10	-0.0047	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-11.80	-0.0046	>=-2.5 & <=2.5	Pass
			20	NV	2.60	0.0010	>=-2.5 & <=2.5	Pass
			30	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
			50	NV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-10.40	-0.0040	>=-2.5 & <=2.5	Pass
				HV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-11.50	-0.0044	>=-2.5 & <=2.5	Pass
			-10	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	-9.30	-0.0036	>=-2.5 & <=2.5	Pass
			10	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
			40	NV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
			50	NV	-13.20	-0.0051	>=-2.5 & <=2.5	Pass

3.7 30k_SISO_90MHz

3.7.1 Test Result

5G NR n41 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	2592.99	Outer_Full	20	LV	-17.70	-0.0068	>=-2.5 & <=2.5	Pass
				HV	-20.50	-0.0079	>=-2.5 & <=2.5	Pass
			-30	NV	-12.90	-0.0050	>=-2.5 & <=2.5	Pass
			-20	NV	-17.60	-0.0068	>=-2.5 & <=2.5	Pass
			-10	NV	-11.80	-0.0046	>=-2.5 & <=2.5	Pass
			0	NV	-11.80	-0.0046	>=-2.5 & <=2.5	Pass
			10	NV	-17.00	-0.0066	>=-2.5 & <=2.5	Pass
			20	NV	-14.40	-0.0056	>=-2.5 & <=2.5	Pass
			30	NV	-9.30	-0.0036	>=-2.5 & <=2.5	Pass
			40	NV	-16.10	-0.0062	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2592.99	Outer_Full	50	NV	-10.80	-0.0042	>=-2.5 & <=2.5	Pass
			20	LV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
				HV	-14.40	-0.0056	>=-2.5 & <=2.5	Pass
			-30	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
			-20	NV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
			-10	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
			0	NV	-13.90	-0.0054	>=-2.5 & <=2.5	Pass
			10	NV	-12.40	-0.0048	>=-2.5 & <=2.5	Pass
			20	NV	-15.00	-0.0058	>=-2.5 & <=2.5	Pass

			30	NV	-10.50	-0.0040	>=-2.5 & <=2.5	Pass
			40	NV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
			50	NV	-10.50	-0.0040	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-10.60	-0.0041	>=-2.5 & <=2.5	Pass
				HV	-15.00	-0.0058	>=-2.5 & <=2.5	Pass
			-30	NV	-10.50	-0.0040	>=-2.5 & <=2.5	Pass
			-20	NV	-13.30	-0.0051	>=-2.5 & <=2.5	Pass
			-10	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
			0	NV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-14.60	-0.0056	>=-2.5 & <=2.5	Pass
			20	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-15.00	-0.0058	>=-2.5 & <=2.5	Pass
			40	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
			50	NV	-13.90	-0.0054	>=-2.5 & <=2.5	Pass
			DFT-s-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-7.00
HV	-17.50	-0.0067					>=-2.5 & <=2.5	Pass
-30	NV	-15.20				-0.0059	>=-2.5 & <=2.5	Pass
-20	NV	-9.60				-0.0037	>=-2.5 & <=2.5	Pass
-10	NV	-11.10				-0.0043	>=-2.5 & <=2.5	Pass
0	NV	-11.00				-0.0042	>=-2.5 & <=2.5	Pass
10	NV	-17.60				-0.0068	>=-2.5 & <=2.5	Pass
20	NV	-4.60				-0.0018	>=-2.5 & <=2.5	Pass
30	NV	-10.40				-0.0040	>=-2.5 & <=2.5	Pass
40	NV	-8.80				-0.0034	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-12.10	-0.0047	>=-2.5 & <=2.5	Pass
				HV	-13.60	-0.0052	>=-2.5 & <=2.5	Pass
			-30	NV	-14.40	-0.0056	>=-2.5 & <=2.5	Pass
			-20	NV	-11.30	-0.0044	>=-2.5 & <=2.5	Pass
			-10	NV	-10.50	-0.0040	>=-2.5 & <=2.5	Pass
			0	NV	-14.50	-0.0056	>=-2.5 & <=2.5	Pass
			10	NV	-20.30	-0.0078	>=-2.5 & <=2.5	Pass
			20	NV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
			30	NV	-12.80	-0.0049	>=-2.5 & <=2.5	Pass
			40	NV	-10.50	-0.0040	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	2592.99	Outer_Full	20	LV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
				HV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	6.90	0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
			-10	NV	-10.90	-0.0042	>=-2.5 & <=2.5	Pass
			0	NV	-11.50	-0.0044	>=-2.5 & <=2.5	Pass
			10	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			20	NV	-12.10	-0.0047	>=-2.5 & <=2.5	Pass
			30	NV	-15.20	-0.0059	>=-2.5 & <=2.5	Pass
			40	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass
			-30	NV	-11.90	-0.0046	>=-2.5 & <=2.5	Pass
			-20	NV	-11.70	-0.0045	>=-2.5 & <=2.5	Pass
			-10	NV	-12.70	-0.0049	>=-2.5 & <=2.5	Pass
			0	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
			10	NV	-10.70	-0.0041	>=-2.5 & <=2.5	Pass
			20	NV	-13.10	-0.0051	>=-2.5 & <=2.5	Pass
			30	NV	-13.50	-0.0052	>=-2.5 & <=2.5	Pass
			40	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass

			50	NV	-10.20	-0.0039	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-21.50	-0.0083	>=-2.5 & <=2.5	Pass
				HV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
			-30	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-13.20	-0.0051	>=-2.5 & <=2.5	Pass
			-10	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			0	NV	-16.20	-0.0062	>=-2.5 & <=2.5	Pass
			10	NV	-23.30	-0.0090	>=-2.5 & <=2.5	Pass
			20	NV	-10.70	-0.0041	>=-2.5 & <=2.5	Pass
			30	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-14.60	-0.0056	>=-2.5 & <=2.5	Pass
				HV	-11.30	-0.0044	>=-2.5 & <=2.5	Pass
			-30	NV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	-28.40	-0.0110	>=-2.5 & <=2.5	Pass
			-10	NV	-17.80	-0.0069	>=-2.5 & <=2.5	Pass
			0	NV	-11.40	-0.0044	>=-2.5 & <=2.5	Pass
			10	NV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
			20	NV	-13.90	-0.0054	>=-2.5 & <=2.5	Pass
			30	NV	-13.70	-0.0053	>=-2.5 & <=2.5	Pass
			40	NV	-11.30	-0.0044	>=-2.5 & <=2.5	Pass
			50	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass

3.8 30k_SISO_100MHz

3.8.1 Test Result

5G NR n41 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	2592.99	Outer_Full	20	LV	6.50	0.0025	>=-2.5 & <=2.5	Pass
				HV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
			-30	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-14.00	-0.0054	>=-2.5 & <=2.5	Pass
			-10	NV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
			0	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-11.90	-0.0046	>=-2.5 & <=2.5	Pass
			20	NV	-18.00	-0.0069	>=-2.5 & <=2.5	Pass
			30	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	-12.00	-0.0046	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2592.99	Outer_Full	20	LV	-22.30	-0.0086	>=-2.5 & <=2.5	Pass
				HV	-12.50	-0.0048	>=-2.5 & <=2.5	Pass
			-30	NV	-21.50	-0.0083	>=-2.5 & <=2.5	Pass
			-20	NV	-17.60	-0.0068	>=-2.5 & <=2.5	Pass
			-10	NV	-13.70	-0.0053	>=-2.5 & <=2.5	Pass
			0	NV	-18.30	-0.0071	>=-2.5 & <=2.5	Pass
			10	NV	-15.70	-0.0061	>=-2.5 & <=2.5	Pass
			20	NV	-14.60	-0.0056	>=-2.5 & <=2.5	Pass
			30	NV	-12.50	-0.0048	>=-2.5 & <=2.5	Pass
			40	NV	-13.70	-0.0053	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-13.00	-0.0050	>=-2.5 & <=2.5	Pass
				HV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass

			-30	NV	-7.30	-0.0028	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-9.40	-0.0036	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-14.30	-0.0055	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-11.80	-0.0046	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-15.70	-0.0061	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-4.30	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-7.30	-0.0028	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-19.70	-0.0076	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-11.50	-0.0044	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
DFT-s-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-8.10	-0.0031	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-14.20	-0.0055	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-11.80	-0.0046	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-12.70	-0.0049	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-14.80	-0.0057	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-13.70	-0.0053	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-18.60	-0.0072	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-8.10	-0.0031	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-23.40	-0.0090	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-13.10	-0.0051	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
DFT-s-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-11.70	-0.0045	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-7.40	-0.0029	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-9.00	-0.0035	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-12.40	-0.0048	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-13.00	-0.0050	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-13.00	-0.0050	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-7.00	-0.0027	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-12.90	-0.0050	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-8.00	-0.0031	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-9.10	-0.0035	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM QPSK	2592.99	Outer_Full	20	LV	-14.70	-0.0057	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-10.90	-0.0042	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-7.50	-0.0029	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-10.90	-0.0042	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-11.50	-0.0044	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-9.00	-0.0035	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-6.70	-0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-15.20	-0.0059	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-6.90	-0.0027	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-8.90	-0.0034	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-13.00	-0.0050	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-10.40	-0.0040	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-7.20	-0.0028	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	5.10	0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-9.80	-0.0038	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-5.90	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-15.40	-0.0059	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-10.50	-0.0040	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-12.80	-0.0049	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-6.10	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-14.70	-0.0057	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-13.30	-0.0051	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-10.20	-0.0039	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-9.90	-0.0038	$\geq -2.5 \text{ \& } \leq 2.5$	Pass

			-10	NV	-13.10	-0.0051	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-17.10	-0.0066	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-12.80	-0.0049	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-10.20	-0.0039	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-10.50	-0.0040	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	10.70	0.0041	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-10.40	-0.0040	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-15.10	-0.0058	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-14.70	-0.0057	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-12.20	-0.0047	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-19.10	-0.0074	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-11.60	-0.0045	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-8.40	-0.0032	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-14.00	-0.0054	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-11.10	-0.0043	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-13.30	-0.0051	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-12.30	-0.0047	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-17.50	-0.0067	$\geq -2.5 \ \& \ \leq 2.5$	Pass

4. Frequency Stability

4.1 15k_SISO_5MHz

4.1.1 Test Result

5G NR n66 SCS=15kHz SISO 5MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	1745	Outer_Full	20	LV	-5.50	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-5.40	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-3.00	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-3.00	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-7.10	-0.0041	>=-2.5 & <=2.5	Pass
			0	NV	-2.30	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	-4.10	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-7.90	-0.0045	>=-2.5 & <=2.5	Pass
			30	NV	-2.10	-0.0012	>=-2.5 & <=2.5	Pass
			40	NV	-4.10	-0.0023	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	1745	Outer_Full	20	LV	-5.60	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-4.30	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-4.80	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-5.50	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-4.70	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-4.00	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-2.00	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-5.00	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-4.20	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-6.20	-0.0036	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	1745	Outer_Full	20	LV	-3.60	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-3.50	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-4.20	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-6.60	-0.0038	>=-2.5 & <=2.5	Pass
			-10	NV	-3.70	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-3.30	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-5.10	-0.0029	>=-2.5 & <=2.5	Pass
			20	NV	-6.10	-0.0035	>=-2.5 & <=2.5	Pass
			30	NV	-3.90	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-6.80	-0.0039	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	1745	Outer_Full	20	LV	-4.80	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-3.90	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-5.80	-0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	-8.40	-0.0048	>=-2.5 & <=2.5	Pass
			-10	NV	-6.20	-0.0036	>=-2.5 & <=2.5	Pass
			0	NV	-6.30	-0.0036	>=-2.5 & <=2.5	Pass
			10	NV	-5.30	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-5.20	-0.0030	>=-2.5 & <=2.5	Pass
			30	NV	-3.90	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-7.30	-0.0042	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	1745	Outer_Full	20	NV	-4.50	-0.0026	>=-2.5 & <=2.5	Pass
				LV	-3.40	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-4.50	-0.0026	>=-2.5 & <=2.5	Pass

			-30	NV	-5.60	-0.0032	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-2.70	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-6.00	-0.0034	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-4.70	-0.0027	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-3.70	-0.0021	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-4.10	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-5.70	-0.0033	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-4.90	-0.0028	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-9.80	-0.0056	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM QPSK	1745	Outer_Full	20	LV	-3.50	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-4.90	-0.0028	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-4.30	-0.0025	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-2.40	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-6.30	-0.0036	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-7.30	-0.0042	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-5.30	-0.0030	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-5.60	-0.0032	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-3.40	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-2.00	-0.0011	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 16 QAM	1745	Outer_Full	20	LV	-4.10	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-3.30	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-4.20	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-4.40	-0.0025	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	0.50	0.0003	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-3.80	-0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-4.40	-0.0025	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-5.80	-0.0033	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-5.80	-0.0033	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-4.50	-0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 64 QAM	1745	Outer_Full	20	LV	-3.70	-0.0021	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-2.90	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-7.40	-0.0042	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-3.20	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-2.60	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-2.70	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-7.50	-0.0043	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-8.50	-0.0049	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-5.30	-0.0030	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-7.50	-0.0043	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 256 QAM	1745	Outer_Full	20	LV	-6.40	-0.0037	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-3.90	-0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-7.20	-0.0041	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-5.50	-0.0032	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-4.40	-0.0025	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-5.80	-0.0033	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-5.70	-0.0033	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-7.70	-0.0044	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-4.80	-0.0028	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-3.40	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-6.50	-0.0037	$\geq -2.5 \text{ \& } \leq 2.5$	Pass

4.2 15k_SISO_10MHz

4.2.1 Test Result

5G NR n66 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	1745	Outer_Full	20	LV	-4.70	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-4.00	-0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	-1.90	-0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	-6.90	-0.0040	>=-2.5 & <=2.5	Pass
			-10	NV	-5.60	-0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-4.40	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-9.10	-0.0052	>=-2.5 & <=2.5	Pass
			20	NV	-4.90	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-4.20	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-5.20	-0.0030	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	1745	Outer_Full	20	LV	-5.30	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-6.20	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-3.00	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-3.60	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-4.90	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	-6.00	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-2.00	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-9.10	-0.0052	>=-2.5 & <=2.5	Pass
			30	NV	-4.20	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-7.60	-0.0044	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	1745	Outer_Full	20	LV	-6.10	-0.0035	>=-2.5 & <=2.5	Pass
				HV	-3.60	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-5.40	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-7.20	-0.0041	>=-2.5 & <=2.5	Pass
			-10	NV	-4.60	-0.0026	>=-2.5 & <=2.5	Pass
			0	NV	-6.60	-0.0038	>=-2.5 & <=2.5	Pass
			10	NV	-3.40	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-3.30	-0.0019	>=-2.5 & <=2.5	Pass
			30	NV	-5.10	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-3.10	-0.0018	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	1745	Outer_Full	20	LV	-3.70	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-4.40	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-7.90	-0.0045	>=-2.5 & <=2.5	Pass
			-20	NV	-2.90	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-2.50	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-4.50	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-4.70	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-6.70	-0.0038	>=-2.5 & <=2.5	Pass
			30	NV	-5.80	-0.0033	>=-2.5 & <=2.5	Pass
			40	NV	-4.10	-0.0023	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	1745	Outer_Full	20	LV	-6.00	-0.0034	>=-2.5 & <=2.5	Pass
				HV	-4.50	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-7.20	-0.0041	>=-2.5 & <=2.5	Pass
			-20	NV	-3.30	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-1.20	-0.0007	>=-2.5 & <=2.5	Pass
			0	NV	-6.40	-0.0037	>=-2.5 & <=2.5	Pass
			10	NV	-5.30	-0.0030	>=-2.5 & <=2.5	Pass

			20	NV	-3.20	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-3.70	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-5.50	-0.0032	>=-2.5 & <=2.5	Pass
			50	NV	-3.30	-0.0019	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	1745	Outer_Full	20	LV	-4.80	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-2.40	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-6.50	-0.0037	>=-2.5 & <=2.5	Pass
			-20	NV	-5.00	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-5.60	-0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-3.00	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-7.40	-0.0042	>=-2.5 & <=2.5	Pass
			20	NV	-7.30	-0.0042	>=-2.5 & <=2.5	Pass
			30	NV	-3.20	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-4.60	-0.0026	>=-2.5 & <=2.5	Pass
			50	NV	-6.00	-0.0034	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	1745	Outer_Full	20	LV	-9.30	-0.0053	>=-2.5 & <=2.5	Pass
				HV	-5.00	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-4.20	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-5.50	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-7.30	-0.0042	>=-2.5 & <=2.5	Pass
			0	NV	-2.70	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-4.50	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-10.40	-0.0060	>=-2.5 & <=2.5	Pass
			30	NV	-4.70	-0.0027	>=-2.5 & <=2.5	Pass
			40	NV	-7.90	-0.0045	>=-2.5 & <=2.5	Pass
			50	NV	-7.50	-0.0043	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	1745	Outer_Full	20	LV	-4.90	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-6.90	-0.0040	>=-2.5 & <=2.5	Pass
			-30	NV	-5.00	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-4.80	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-2.60	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-5.00	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-3.30	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-2.10	-0.0012	>=-2.5 & <=2.5	Pass
			30	NV	-3.10	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-6.60	-0.0038	>=-2.5 & <=2.5	Pass
			50	NV	-4.50	-0.0026	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	1745	Outer_Full	20	LV	-10.30	-0.0059	>=-2.5 & <=2.5	Pass
				HV	-6.50	-0.0037	>=-2.5 & <=2.5	Pass
			-30	NV	-5.80	-0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	-5.90	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-5.50	-0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-5.40	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-11.40	-0.0065	>=-2.5 & <=2.5	Pass
			20	NV	-7.00	-0.0040	>=-2.5 & <=2.5	Pass
			30	NV	-2.70	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-5.70	-0.0033	>=-2.5 & <=2.5	Pass
			50	NV	-4.10	-0.0023	>=-2.5 & <=2.5	Pass

4.3 15k_SISO_15MHz

4.3.1 Test Result

5G NR n66 SCS=15kHz SISO 15MHz							
Modulation	Frequency	RB	Temp.	Volt.	Freq. Error	Freq. vs. rated (ppm)	Verdict

	(MHz)	Allocation	(°C)		(Hz)	Result	Limit	
DFT-s-OFDM PI/2 BPSK	1745	Outer_Full	20	LV	-5.30	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-4.10	-0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	-4.10	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-3.80	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-2.20	-0.0013	>=-2.5 & <=2.5	Pass
			0	NV	-6.50	-0.0037	>=-2.5 & <=2.5	Pass
			10	NV	-3.90	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-4.00	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-3.80	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-2.40	-0.0014	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	1745	Outer_Full	20	LV	-2.30	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-2.10	-0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	-6.60	-0.0038	>=-2.5 & <=2.5	Pass
			-20	NV	-6.80	-0.0039	>=-2.5 & <=2.5	Pass
			-10	NV	-4.70	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-6.40	-0.0037	>=-2.5 & <=2.5	Pass
			10	NV	-3.20	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-4.50	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-3.80	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-6.30	-0.0036	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	1745	Outer_Full	20	LV	-4.90	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-7.10	-0.0041	>=-2.5 & <=2.5	Pass
			-30	NV	-4.60	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-5.70	-0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	-5.80	-0.0033	>=-2.5 & <=2.5	Pass
			0	NV	-4.80	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-8.30	-0.0048	>=-2.5 & <=2.5	Pass
			20	NV	-4.20	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-5.40	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-4.50	-0.0026	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	1745	Outer_Full	20	LV	-6.50	-0.0037	>=-2.5 & <=2.5	Pass
				HV	-6.30	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-4.10	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-4.80	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-5.90	-0.0034	>=-2.5 & <=2.5	Pass
			0	NV	-6.70	-0.0038	>=-2.5 & <=2.5	Pass
			10	NV	-4.00	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-3.60	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-1.90	-0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-2.70	-0.0015	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	1745	Outer_Full	20	LV	-5.60	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-2.80	-0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	-6.00	-0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	-3.50	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-2.70	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-3.60	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-7.10	-0.0041	>=-2.5 & <=2.5	Pass
			20	NV	-4.70	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-5.70	-0.0033	>=-2.5 & <=2.5	Pass
			40	NV	-4.60	-0.0026	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	1745	Outer_Full	20	LV	-4.10	-0.0023	>=-2.5 & <=2.5	Pass

				HV	-4.70	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-7.20	-0.0041	>=-2.5 & <=2.5	Pass
			-20	NV	-6.60	-0.0038	>=-2.5 & <=2.5	Pass
			-10	NV	-5.80	-0.0033	>=-2.5 & <=2.5	Pass
			0	NV	-7.70	-0.0044	>=-2.5 & <=2.5	Pass
			10	NV	-6.60	-0.0038	>=-2.5 & <=2.5	Pass
			20	NV	-7.90	-0.0045	>=-2.5 & <=2.5	Pass
			30	NV	-3.90	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-4.80	-0.0028	>=-2.5 & <=2.5	Pass
			50	NV	-3.70	-0.0021	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	1745	Outer_Full	20	LV	-9.00	-0.0052	>=-2.5 & <=2.5	Pass
				HV	-5.10	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-5.20	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-3.00	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-6.90	-0.0040	>=-2.5 & <=2.5	Pass
			0	NV	-5.80	-0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-4.90	-0.0028	>=-2.5 & <=2.5	Pass
			20	NV	-6.20	-0.0036	>=-2.5 & <=2.5	Pass
			30	NV	-5.20	-0.0030	>=-2.5 & <=2.5	Pass
			40	NV	-5.00	-0.0029	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	1745	Outer_Full	20	LV	-7.70	-0.0044	>=-2.5 & <=2.5	Pass
				HV	-7.00	-0.0040	>=-2.5 & <=2.5	Pass
			-30	NV	-6.00	-0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	-4.20	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-6.20	-0.0036	>=-2.5 & <=2.5	Pass
			0	NV	-4.00	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-4.70	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-7.60	-0.0044	>=-2.5 & <=2.5	Pass
			30	NV	-5.30	-0.0030	>=-2.5 & <=2.5	Pass
			40	NV	-5.50	-0.0032	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	1745	Outer_Full	20	LV	-7.20	-0.0041	>=-2.5 & <=2.5	Pass
				HV	-6.20	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-6.00	-0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	-6.40	-0.0037	>=-2.5 & <=2.5	Pass
			-10	NV	-6.00	-0.0034	>=-2.5 & <=2.5	Pass
			0	NV	-3.60	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-6.10	-0.0035	>=-2.5 & <=2.5	Pass
			20	NV	-5.50	-0.0032	>=-2.5 & <=2.5	Pass
			30	NV	-5.30	-0.0030	>=-2.5 & <=2.5	Pass
			40	NV	-6.90	-0.0040	>=-2.5 & <=2.5	Pass
			50	NV	-5.90	-0.0034	>=-2.5 & <=2.5	Pass

4.4 15k_SISO_20MHz

4.4.1 Test Result

5G NR n66 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	1745	Outer_Full	20	LV	-4.10	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-6.30	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-2.10	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-3.50	-0.0020	>=-2.5 & <=2.5	Pass

			-10	NV	-5.10	-0.0029	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-3.40	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-3.60	-0.0021	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-5.10	-0.0029	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-6.40	-0.0037	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-3.10	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-4.80	-0.0028	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
DFT-s-OFDM QPSK	1745	Outer_Full	20	LV	-5.40	-0.0031	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-6.10	-0.0035	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-4.30	-0.0025	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-4.60	-0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-8.20	-0.0047	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-1.90	-0.0011	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-4.20	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-7.80	-0.0045	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-4.80	-0.0028	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-4.00	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-5.20	-0.0030	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
DFT-s-OFDM 16 QAM	1745	Outer_Full	20	LV	-5.60	-0.0032	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-7.00	-0.0040	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-5.10	-0.0029	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-4.60	-0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-4.10	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-5.20	-0.0030	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-4.70	-0.0027	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-4.50	-0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-5.30	-0.0030	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-4.60	-0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-3.10	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
DFT-s-OFDM 64 QAM	1745	Outer_Full	20	LV	-4.20	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-4.40	-0.0025	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-3.00	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-6.00	-0.0034	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-7.80	-0.0045	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-4.10	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-6.30	-0.0036	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-5.80	-0.0033	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-2.80	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-2.70	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-6.90	-0.0040	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
DFT-s-OFDM 256 QAM	1745	Outer_Full	20	LV	-2.80	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-3.50	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-5.60	-0.0032	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-6.00	-0.0034	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-5.30	-0.0030	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-4.20	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-6.30	-0.0036	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-4.20	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-3.70	-0.0021	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-4.00	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-7.00	-0.0040	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM QPSK	1745	Outer_Full	20	LV	-3.70	-0.0021	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-4.50	-0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-3.70	-0.0021	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-5.10	-0.0029	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-3.50	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-5.20	-0.0030	$\geq -2.5 \text{ \& } \leq 2.5$	Pass

			10	NV	-5.10	-0.0029	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-6.10	-0.0035	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-4.60	-0.0026	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-5.10	-0.0029	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-4.40	-0.0025	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 16 QAM	1745	Outer_Full	20	LV	-4.70	-0.0027	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-6.10	-0.0035	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-4.30	-0.0025	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-3.00	-0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-6.60	-0.0038	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-5.20	-0.0030	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-3.10	-0.0018	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-7.10	-0.0041	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-5.60	-0.0032	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-3.40	-0.0019	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-4.50	-0.0026	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 64 QAM	1745	Outer_Full	20	LV	-7.00	-0.0040	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-5.00	-0.0029	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-4.70	-0.0027	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-4.10	-0.0023	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-6.40	-0.0037	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-4.70	-0.0027	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-2.90	-0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-4.00	-0.0023	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-4.70	-0.0027	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-5.50	-0.0032	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-5.90	-0.0034	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 256 QAM	1745	Outer_Full	20	LV	-7.90	-0.0045	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-4.60	-0.0026	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-9.40	-0.0054	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-5.70	-0.0033	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-4.50	-0.0026	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-7.50	-0.0043	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-4.20	-0.0024	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-3.90	-0.0022	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-5.30	-0.0030	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-5.10	-0.0029	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-8.20	-0.0047	$\geq -2.5 \ \& \ \leq 2.5$	Pass

5. Frequency Stability

5.1 15k_SISO_5MHz

5.1.1 Test Result

5G NR n71 SCS=15kHz SISO 5MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	680.5	Outer_Full	20	LV	-8.80	-0.0129	>=-2.5 & <=2.5	Pass
				HV	-6.40	-0.0094	>=-2.5 & <=2.5	Pass
			-30	NV	-6.40	-0.0094	>=-2.5 & <=2.5	Pass
			-20	NV	-7.40	-0.0109	>=-2.5 & <=2.5	Pass
			-10	NV	-7.40	-0.0109	>=-2.5 & <=2.5	Pass
			0	NV	-5.90	-0.0087	>=-2.5 & <=2.5	Pass
			10	NV	-6.30	-0.0093	>=-2.5 & <=2.5	Pass
			20	NV	-7.20	-0.0106	>=-2.5 & <=2.5	Pass
			30	NV	-7.20	-0.0106	>=-2.5 & <=2.5	Pass
			40	NV	-6.40	-0.0094	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	680.5	Outer_Full	20	LV	-8.70	-0.0128	>=-2.5 & <=2.5	Pass
				HV	-6.20	-0.0091	>=-2.5 & <=2.5	Pass
			-30	NV	-6.30	-0.0093	>=-2.5 & <=2.5	Pass
			-20	NV	-7.20	-0.0106	>=-2.5 & <=2.5	Pass
			-10	NV	-7.50	-0.0110	>=-2.5 & <=2.5	Pass
			0	NV	-6.10	-0.0090	>=-2.5 & <=2.5	Pass
			10	NV	-7.60	-0.0112	>=-2.5 & <=2.5	Pass
			20	NV	-6.90	-0.0101	>=-2.5 & <=2.5	Pass
			30	NV	-8.70	-0.0128	>=-2.5 & <=2.5	Pass
			40	NV	-7.40	-0.0109	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	680.5	Outer_Full	20	LV	-9.00	-0.0132	>=-2.5 & <=2.5	Pass
				HV	-6.70	-0.0098	>=-2.5 & <=2.5	Pass
			-30	NV	-7.80	-0.0115	>=-2.5 & <=2.5	Pass
			-20	NV	-5.20	-0.0076	>=-2.5 & <=2.5	Pass
			-10	NV	-6.30	-0.0093	>=-2.5 & <=2.5	Pass
			0	NV	-6.00	-0.0088	>=-2.5 & <=2.5	Pass
			10	NV	-7.80	-0.0115	>=-2.5 & <=2.5	Pass
			20	NV	-7.60	-0.0112	>=-2.5 & <=2.5	Pass
			30	NV	-8.10	-0.0119	>=-2.5 & <=2.5	Pass
			40	NV	-5.60	-0.0082	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	680.5	Outer_Full	20	LV	-7.10	-0.0104	>=-2.5 & <=2.5	Pass
				HV	-6.60	-0.0097	>=-2.5 & <=2.5	Pass
			-30	NV	-6.60	-0.0097	>=-2.5 & <=2.5	Pass
			-20	NV	-6.90	-0.0101	>=-2.5 & <=2.5	Pass
			-10	NV	-7.60	-0.0112	>=-2.5 & <=2.5	Pass
			0	NV	-5.20	-0.0076	>=-2.5 & <=2.5	Pass
			10	NV	-8.80	-0.0129	>=-2.5 & <=2.5	Pass
			20	NV	-7.80	-0.0115	>=-2.5 & <=2.5	Pass
			30	NV	-5.90	-0.0087	>=-2.5 & <=2.5	Pass
			40	NV	-6.80	-0.0100	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	680.5	Outer_Full	20	NV	-6.30	-0.0093	>=-2.5 & <=2.5	Pass
				LV	-8.10	-0.0119	>=-2.5 & <=2.5	Pass
				HV	-8.00	-0.0118	>=-2.5 & <=2.5	Pass

			-30	NV	-8.60	-0.0126	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-7.40	-0.0109	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-6.80	-0.0100	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-8.70	-0.0128	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-5.20	-0.0076	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-8.70	-0.0128	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-7.30	-0.0107	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-7.10	-0.0104	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-7.10	-0.0104	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM QPSK	680.5	Outer_Full	20	LV	-4.90	-0.0072	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-7.50	-0.0110	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-6.30	-0.0093	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-7.20	-0.0106	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-5.80	-0.0085	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-6.50	-0.0096	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-5.80	-0.0085	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-3.70	-0.0054	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-5.60	-0.0082	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-7.90	-0.0116	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 16 QAM	680.5	Outer_Full	20	LV	-6.20	-0.0091	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-6.40	-0.0094	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-6.30	-0.0093	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-6.00	-0.0088	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-6.50	-0.0096	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-7.20	-0.0106	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-5.30	-0.0078	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-6.60	-0.0097	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-5.80	-0.0085	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-6.90	-0.0101	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 64 QAM	680.5	Outer_Full	20	LV	-8.50	-0.0125	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-5.90	-0.0087	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-9.00	-0.0132	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-6.60	-0.0097	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-6.60	-0.0097	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-7.00	-0.0103	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-8.60	-0.0126	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-6.60	-0.0097	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-7.10	-0.0104	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-8.80	-0.0129	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 256 QAM	680.5	Outer_Full	20	LV	-6.80	-0.0100	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-7.00	-0.0103	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-7.40	-0.0109	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-8.20	-0.0120	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-6.80	-0.0100	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-7.40	-0.0109	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-8.30	-0.0122	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-8.70	-0.0128	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-7.00	-0.0103	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-8.70	-0.0128	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-8.00	-0.0118	$\geq -2.5 \ \& \ \leq 2.5$	Pass

5.2 15k_SISO_10MHz

5.2.1 Test Result

5G NR n71 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	680.5	Outer_Full	20	LV	-8.90	-0.0131	>=-2.5 & <=2.5	Pass
				HV	-10.30	-0.0151	>=-2.5 & <=2.5	Pass
			-30	NV	-8.30	-0.0122	>=-2.5 & <=2.5	Pass
			-20	NV	-9.20	-0.0135	>=-2.5 & <=2.5	Pass
			-10	NV	-10.10	-0.0148	>=-2.5 & <=2.5	Pass
			0	NV	-11.50	-0.0169	>=-2.5 & <=2.5	Pass
			10	NV	-10.30	-0.0151	>=-2.5 & <=2.5	Pass
			20	NV	-8.90	-0.0131	>=-2.5 & <=2.5	Pass
			30	NV	-10.30	-0.0151	>=-2.5 & <=2.5	Pass
			40	NV	-8.70	-0.0128	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	680.5	Outer_Full	20	LV	-8.90	-0.0131	>=-2.5 & <=2.5	Pass
				HV	-9.70	-0.0143	>=-2.5 & <=2.5	Pass
			-30	NV	-10.60	-0.0156	>=-2.5 & <=2.5	Pass
			-20	NV	-7.60	-0.0112	>=-2.5 & <=2.5	Pass
			-10	NV	-8.00	-0.0118	>=-2.5 & <=2.5	Pass
			0	NV	-8.00	-0.0118	>=-2.5 & <=2.5	Pass
			10	NV	-9.10	-0.0134	>=-2.5 & <=2.5	Pass
			20	NV	-9.50	-0.0140	>=-2.5 & <=2.5	Pass
			30	NV	-8.70	-0.0128	>=-2.5 & <=2.5	Pass
			40	NV	-9.60	-0.0141	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	680.5	Outer_Full	20	LV	-9.20	-0.0135	>=-2.5 & <=2.5	Pass
				HV	-12.20	-0.0179	>=-2.5 & <=2.5	Pass
			-30	NV	-9.10	-0.0134	>=-2.5 & <=2.5	Pass
			-20	NV	-9.70	-0.0143	>=-2.5 & <=2.5	Pass
			-10	NV	-9.10	-0.0134	>=-2.5 & <=2.5	Pass
			0	NV	-8.70	-0.0128	>=-2.5 & <=2.5	Pass
			10	NV	-9.70	-0.0143	>=-2.5 & <=2.5	Pass
			20	NV	-9.80	-0.0144	>=-2.5 & <=2.5	Pass
			30	NV	-10.40	-0.0153	>=-2.5 & <=2.5	Pass
			40	NV	-9.40	-0.0138	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	680.5	Outer_Full	20	LV	-9.10	-0.0134	>=-2.5 & <=2.5	Pass
				HV	-10.50	-0.0154	>=-2.5 & <=2.5	Pass
			-30	NV	-9.30	-0.0137	>=-2.5 & <=2.5	Pass
			-20	NV	-8.90	-0.0131	>=-2.5 & <=2.5	Pass
			-10	NV	-10.20	-0.0150	>=-2.5 & <=2.5	Pass
			0	NV	-8.10	-0.0119	>=-2.5 & <=2.5	Pass
			10	NV	-9.30	-0.0137	>=-2.5 & <=2.5	Pass
			20	NV	-8.50	-0.0125	>=-2.5 & <=2.5	Pass
			30	NV	-10.40	-0.0153	>=-2.5 & <=2.5	Pass
			40	NV	-10.00	-0.0147	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	680.5	Outer_Full	20	LV	-6.30	-0.0093	>=-2.5 & <=2.5	Pass
				HV	-6.40	-0.0094	>=-2.5 & <=2.5	Pass
			-30	NV	-5.40	-0.0079	>=-2.5 & <=2.5	Pass
			-20	NV	-8.20	-0.0120	>=-2.5 & <=2.5	Pass
			-10	NV	-7.00	-0.0103	>=-2.5 & <=2.5	Pass
			0	NV	-6.20	-0.0091	>=-2.5 & <=2.5	Pass
			10	NV	-7.50	-0.0110	>=-2.5 & <=2.5	Pass

			20	NV	-6.80	-0.0100	>=-2.5 & <=2.5	Pass
			30	NV	-8.00	-0.0118	>=-2.5 & <=2.5	Pass
			40	NV	-6.80	-0.0100	>=-2.5 & <=2.5	Pass
			50	NV	-5.90	-0.0087	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	680.5	Outer_Full	20	LV	-6.80	-0.0100	>=-2.5 & <=2.5	Pass
				HV	-6.80	-0.0100	>=-2.5 & <=2.5	Pass
			-30	NV	-7.30	-0.0107	>=-2.5 & <=2.5	Pass
			-20	NV	-7.20	-0.0106	>=-2.5 & <=2.5	Pass
			-10	NV	-5.60	-0.0082	>=-2.5 & <=2.5	Pass
			0	NV	-5.30	-0.0078	>=-2.5 & <=2.5	Pass
			10	NV	-6.20	-0.0091	>=-2.5 & <=2.5	Pass
			20	NV	-7.00	-0.0103	>=-2.5 & <=2.5	Pass
			30	NV	-7.90	-0.0116	>=-2.5 & <=2.5	Pass
			40	NV	-6.20	-0.0091	>=-2.5 & <=2.5	Pass
			50	NV	-6.30	-0.0093	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	680.5	Outer_Full	20	LV	-7.20	-0.0106	>=-2.5 & <=2.5	Pass
				HV	-7.20	-0.0106	>=-2.5 & <=2.5	Pass
			-30	NV	-6.60	-0.0097	>=-2.5 & <=2.5	Pass
			-20	NV	-8.10	-0.0119	>=-2.5 & <=2.5	Pass
			-10	NV	-7.20	-0.0106	>=-2.5 & <=2.5	Pass
			0	NV	-6.70	-0.0098	>=-2.5 & <=2.5	Pass
			10	NV	-7.20	-0.0106	>=-2.5 & <=2.5	Pass
			20	NV	-6.50	-0.0096	>=-2.5 & <=2.5	Pass
			30	NV	-6.90	-0.0101	>=-2.5 & <=2.5	Pass
			40	NV	-8.40	-0.0123	>=-2.5 & <=2.5	Pass
			50	NV	-8.00	-0.0118	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	680.5	Outer_Full	20	LV	-9.20	-0.0135	>=-2.5 & <=2.5	Pass
				HV	-7.40	-0.0109	>=-2.5 & <=2.5	Pass
			-30	NV	-8.40	-0.0123	>=-2.5 & <=2.5	Pass
			-20	NV	-8.80	-0.0129	>=-2.5 & <=2.5	Pass
			-10	NV	-7.20	-0.0106	>=-2.5 & <=2.5	Pass
			0	NV	-7.30	-0.0107	>=-2.5 & <=2.5	Pass
			10	NV	-7.70	-0.0113	>=-2.5 & <=2.5	Pass
			20	NV	-7.50	-0.0110	>=-2.5 & <=2.5	Pass
			30	NV	-8.60	-0.0126	>=-2.5 & <=2.5	Pass
			40	NV	-9.10	-0.0134	>=-2.5 & <=2.5	Pass
			50	NV	-7.90	-0.0116	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	680.5	Outer_Full	20	LV	-7.30	-0.0107	>=-2.5 & <=2.5	Pass
				HV	-7.50	-0.0110	>=-2.5 & <=2.5	Pass
			-30	NV	-7.40	-0.0109	>=-2.5 & <=2.5	Pass
			-20	NV	-6.80	-0.0100	>=-2.5 & <=2.5	Pass
			-10	NV	-5.60	-0.0082	>=-2.5 & <=2.5	Pass
			0	NV	-8.90	-0.0131	>=-2.5 & <=2.5	Pass
			10	NV	-8.10	-0.0119	>=-2.5 & <=2.5	Pass
			20	NV	-5.90	-0.0087	>=-2.5 & <=2.5	Pass
			30	NV	-7.40	-0.0109	>=-2.5 & <=2.5	Pass
			40	NV	-7.70	-0.0113	>=-2.5 & <=2.5	Pass
			50	NV	-8.30	-0.0122	>=-2.5 & <=2.5	Pass

5.3 15k_SISO_15MHz

5.3.1 Test Result

5G NR n71 SCS=15kHz SISO 15MHz							
Modulation	Frequency	RB	Temp.	Volt.	Freq. Error	Freq. vs. rated (ppm)	Verdict

	(MHz)	Allocation	(°C)		(Hz)	Result	Limit	
DFT-s-OFDM PI/2 BPSK	680.5	Outer_Full	20	LV	-10.90	-0.0160	>=-2.5 & <=2.5	Pass
				HV	-13.40	-0.0197	>=-2.5 & <=2.5	Pass
			-30	NV	-9.40	-0.0138	>=-2.5 & <=2.5	Pass
			-20	NV	-10.30	-0.0151	>=-2.5 & <=2.5	Pass
			-10	NV	-10.90	-0.0160	>=-2.5 & <=2.5	Pass
			0	NV	-11.10	-0.0163	>=-2.5 & <=2.5	Pass
			10	NV	-12.60	-0.0185	>=-2.5 & <=2.5	Pass
			20	NV	-10.10	-0.0148	>=-2.5 & <=2.5	Pass
			30	NV	-12.30	-0.0181	>=-2.5 & <=2.5	Pass
			40	NV	-11.30	-0.0166	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	680.5	Outer_Full	20	LV	-11.90	-0.0175	>=-2.5 & <=2.5	Pass
				HV	-12.00	-0.0176	>=-2.5 & <=2.5	Pass
			-30	NV	-9.70	-0.0143	>=-2.5 & <=2.5	Pass
			-20	NV	-9.50	-0.0140	>=-2.5 & <=2.5	Pass
			-10	NV	-11.70	-0.0172	>=-2.5 & <=2.5	Pass
			0	NV	-9.90	-0.0145	>=-2.5 & <=2.5	Pass
			10	NV	-8.80	-0.0129	>=-2.5 & <=2.5	Pass
			20	NV	-11.70	-0.0172	>=-2.5 & <=2.5	Pass
			30	NV	-10.80	-0.0159	>=-2.5 & <=2.5	Pass
			40	NV	-10.10	-0.0148	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	680.5	Outer_Full	20	LV	-12.40	-0.0182	>=-2.5 & <=2.5	Pass
				HV	-11.60	-0.0170	>=-2.5 & <=2.5	Pass
			-30	NV	-10.50	-0.0154	>=-2.5 & <=2.5	Pass
			-20	NV	-9.70	-0.0143	>=-2.5 & <=2.5	Pass
			-10	NV	-11.60	-0.0170	>=-2.5 & <=2.5	Pass
			0	NV	-11.40	-0.0168	>=-2.5 & <=2.5	Pass
			10	NV	-12.40	-0.0182	>=-2.5 & <=2.5	Pass
			20	NV	-11.20	-0.0165	>=-2.5 & <=2.5	Pass
			30	NV	-11.70	-0.0172	>=-2.5 & <=2.5	Pass
			40	NV	-11.80	-0.0173	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	680.5	Outer_Full	20	LV	-11.00	-0.0162	>=-2.5 & <=2.5	Pass
				HV	-11.20	-0.0165	>=-2.5 & <=2.5	Pass
			-30	NV	-11.50	-0.0169	>=-2.5 & <=2.5	Pass
			-20	NV	-11.20	-0.0165	>=-2.5 & <=2.5	Pass
			-10	NV	-11.90	-0.0175	>=-2.5 & <=2.5	Pass
			0	NV	-11.60	-0.0170	>=-2.5 & <=2.5	Pass
			10	NV	-10.70	-0.0157	>=-2.5 & <=2.5	Pass
			20	NV	-11.80	-0.0173	>=-2.5 & <=2.5	Pass
			30	NV	-10.80	-0.0159	>=-2.5 & <=2.5	Pass
			40	NV	-11.50	-0.0169	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	680.5	Outer_Full	20	LV	-7.80	-0.0115	>=-2.5 & <=2.5	Pass
				HV	-7.10	-0.0104	>=-2.5 & <=2.5	Pass
			-30	NV	-6.10	-0.0090	>=-2.5 & <=2.5	Pass
			-20	NV	-6.90	-0.0101	>=-2.5 & <=2.5	Pass
			-10	NV	-7.80	-0.0115	>=-2.5 & <=2.5	Pass
			0	NV	-6.20	-0.0091	>=-2.5 & <=2.5	Pass
			10	NV	-6.00	-0.0088	>=-2.5 & <=2.5	Pass
			20	NV	-7.10	-0.0104	>=-2.5 & <=2.5	Pass
			30	NV	-6.40	-0.0094	>=-2.5 & <=2.5	Pass
			40	NV	-6.90	-0.0101	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	680.5	Outer_Full	20	LV	-8.90	-0.0131	>=-2.5 & <=2.5	Pass

				HV	-7.40	-0.0109	>=-2.5 & <=2.5	Pass
			-30	NV	-7.80	-0.0115	>=-2.5 & <=2.5	Pass
			-20	NV	-7.40	-0.0109	>=-2.5 & <=2.5	Pass
			-10	NV	-7.50	-0.0110	>=-2.5 & <=2.5	Pass
			0	NV	-10.50	-0.0154	>=-2.5 & <=2.5	Pass
			10	NV	-8.10	-0.0119	>=-2.5 & <=2.5	Pass
			20	NV	-8.20	-0.0120	>=-2.5 & <=2.5	Pass
			30	NV	-8.20	-0.0120	>=-2.5 & <=2.5	Pass
			40	NV	-8.00	-0.0118	>=-2.5 & <=2.5	Pass
			50	NV	-8.60	-0.0126	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	680.5	Outer_Full	20	LV	-7.50	-0.0110	>=-2.5 & <=2.5	Pass
				HV	-7.90	-0.0116	>=-2.5 & <=2.5	Pass
			-30	NV	-6.70	-0.0098	>=-2.5 & <=2.5	Pass
			-20	NV	-5.90	-0.0087	>=-2.5 & <=2.5	Pass
			-10	NV	-7.30	-0.0107	>=-2.5 & <=2.5	Pass
			0	NV	-5.80	-0.0085	>=-2.5 & <=2.5	Pass
			10	NV	-6.70	-0.0098	>=-2.5 & <=2.5	Pass
			20	NV	-6.20	-0.0091	>=-2.5 & <=2.5	Pass
			30	NV	-6.90	-0.0101	>=-2.5 & <=2.5	Pass
			40	NV	-5.80	-0.0085	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	680.5	Outer_Full	20	LV	-7.60	-0.0112	>=-2.5 & <=2.5	Pass
				HV	-7.70	-0.0113	>=-2.5 & <=2.5	Pass
			-30	NV	-7.90	-0.0116	>=-2.5 & <=2.5	Pass
			-20	NV	-7.10	-0.0104	>=-2.5 & <=2.5	Pass
			-10	NV	-7.30	-0.0107	>=-2.5 & <=2.5	Pass
			0	NV	-7.40	-0.0109	>=-2.5 & <=2.5	Pass
			10	NV	-7.40	-0.0109	>=-2.5 & <=2.5	Pass
			20	NV	-9.00	-0.0132	>=-2.5 & <=2.5	Pass
			30	NV	-7.00	-0.0103	>=-2.5 & <=2.5	Pass
			40	NV	-7.20	-0.0106	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	680.5	Outer_Full	20	LV	-8.90	-0.0131	>=-2.5 & <=2.5	Pass
				HV	-9.00	-0.0132	>=-2.5 & <=2.5	Pass
			-30	NV	-7.30	-0.0107	>=-2.5 & <=2.5	Pass
			-20	NV	-7.70	-0.0113	>=-2.5 & <=2.5	Pass
			-10	NV	-5.60	-0.0082	>=-2.5 & <=2.5	Pass
			0	NV	-7.90	-0.0116	>=-2.5 & <=2.5	Pass
			10	NV	-8.10	-0.0119	>=-2.5 & <=2.5	Pass
			20	NV	-7.10	-0.0104	>=-2.5 & <=2.5	Pass
			30	NV	-4.90	-0.0072	>=-2.5 & <=2.5	Pass
			40	NV	-7.60	-0.0112	>=-2.5 & <=2.5	Pass
			50	NV	-6.60	-0.0097	>=-2.5 & <=2.5	Pass

5.4 15k_SISO_20MHz

5.4.1 Test Result

5G NR n71 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	680.5	Outer_Full	20	LV	-3.90	-0.0057	>=-2.5 & <=2.5	Pass
				HV	-2.40	-0.0035	>=-2.5 & <=2.5	Pass
			-30	NV	-2.90	-0.0043	>=-2.5 & <=2.5	Pass
			-20	NV	-3.50	-0.0051	>=-2.5 & <=2.5	Pass

			-10	NV	-4.60	-0.0068	>=-2.5 & <=2.5	Pass
			0	NV	-3.90	-0.0057	>=-2.5 & <=2.5	Pass
			10	NV	-2.60	-0.0038	>=-2.5 & <=2.5	Pass
			20	NV	-4.50	-0.0066	>=-2.5 & <=2.5	Pass
			30	NV	-2.40	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-4.00	-0.0059	>=-2.5 & <=2.5	Pass
			50	NV	-2.70	-0.0040	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	680.5	Outer_Full	20	LV	-3.40	-0.0050	>=-2.5 & <=2.5	Pass
				HV	-3.20	-0.0047	>=-2.5 & <=2.5	Pass
			-30	NV	-4.00	-0.0059	>=-2.5 & <=2.5	Pass
			-20	NV	-4.00	-0.0059	>=-2.5 & <=2.5	Pass
			-10	NV	-4.40	-0.0065	>=-2.5 & <=2.5	Pass
			0	NV	-2.80	-0.0041	>=-2.5 & <=2.5	Pass
			10	NV	-4.70	-0.0069	>=-2.5 & <=2.5	Pass
			20	NV	-5.80	-0.0085	>=-2.5 & <=2.5	Pass
			30	NV	-4.20	-0.0062	>=-2.5 & <=2.5	Pass
			40	NV	-3.20	-0.0047	>=-2.5 & <=2.5	Pass
50	NV	-4.80	-0.0071	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	680.5	Outer_Full	20	LV	-2.40	-0.0035	>=-2.5 & <=2.5	Pass
				HV	-2.90	-0.0043	>=-2.5 & <=2.5	Pass
			-30	NV	-2.80	-0.0041	>=-2.5 & <=2.5	Pass
			-20	NV	-5.20	-0.0076	>=-2.5 & <=2.5	Pass
			-10	NV	-3.00	-0.0044	>=-2.5 & <=2.5	Pass
			0	NV	-1.50	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-2.30	-0.0034	>=-2.5 & <=2.5	Pass
			20	NV	-3.60	-0.0053	>=-2.5 & <=2.5	Pass
			30	NV	-3.80	-0.0056	>=-2.5 & <=2.5	Pass
			40	NV	-3.10	-0.0046	>=-2.5 & <=2.5	Pass
50	NV	-3.70	-0.0054	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	680.5	Outer_Full	20	LV	-3.60	-0.0053	>=-2.5 & <=2.5	Pass
				HV	-2.70	-0.0040	>=-2.5 & <=2.5	Pass
			-30	NV	-2.30	-0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	-3.80	-0.0056	>=-2.5 & <=2.5	Pass
			-10	NV	-2.50	-0.0037	>=-2.5 & <=2.5	Pass
			0	NV	-3.40	-0.0050	>=-2.5 & <=2.5	Pass
			10	NV	-3.20	-0.0047	>=-2.5 & <=2.5	Pass
			20	NV	-2.70	-0.0040	>=-2.5 & <=2.5	Pass
			30	NV	-1.50	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-4.60	-0.0068	>=-2.5 & <=2.5	Pass
50	NV	-3.30	-0.0048	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	680.5	Outer_Full	20	LV	-5.10	-0.0075	>=-2.5 & <=2.5	Pass
				HV	-6.70	-0.0098	>=-2.5 & <=2.5	Pass
			-30	NV	-6.20	-0.0091	>=-2.5 & <=2.5	Pass
			-20	NV	-7.80	-0.0115	>=-2.5 & <=2.5	Pass
			-10	NV	-6.50	-0.0096	>=-2.5 & <=2.5	Pass
			0	NV	-7.00	-0.0103	>=-2.5 & <=2.5	Pass
			10	NV	-7.40	-0.0109	>=-2.5 & <=2.5	Pass
			20	NV	-7.20	-0.0106	>=-2.5 & <=2.5	Pass
			30	NV	-6.80	-0.0100	>=-2.5 & <=2.5	Pass
			40	NV	-7.30	-0.0107	>=-2.5 & <=2.5	Pass
50	NV	-6.80	-0.0100	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	680.5	Outer_Full	20	LV	-8.70	-0.0128	>=-2.5 & <=2.5	Pass
				HV	-7.60	-0.0112	>=-2.5 & <=2.5	Pass
			-30	NV	-8.80	-0.0129	>=-2.5 & <=2.5	Pass
			-20	NV	-9.40	-0.0138	>=-2.5 & <=2.5	Pass
			-10	NV	-7.30	-0.0107	>=-2.5 & <=2.5	Pass
			0	NV	-8.70	-0.0128	>=-2.5 & <=2.5	Pass

			10	NV	-7.80	-0.0115	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-6.70	-0.0098	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-8.40	-0.0123	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-8.00	-0.0118	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-6.60	-0.0097	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 16 QAM	680.5	Outer_Full	20	LV	-9.00	-0.0132	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-6.40	-0.0094	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-7.00	-0.0103	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-8.20	-0.0120	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-6.70	-0.0098	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-6.20	-0.0091	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-7.00	-0.0103	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-8.30	-0.0122	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-6.80	-0.0100	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-7.70	-0.0113	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-6.50	-0.0096	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 64 QAM	680.5	Outer_Full	20	LV	-7.00	-0.0103	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-8.10	-0.0119	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-8.20	-0.0120	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-8.00	-0.0118	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-8.00	-0.0118	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-7.30	-0.0107	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-6.90	-0.0101	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-8.60	-0.0126	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-6.20	-0.0091	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-6.80	-0.0100	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-6.40	-0.0094	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 256 QAM	680.5	Outer_Full	20	LV	-7.50	-0.0110	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-7.80	-0.0115	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-9.00	-0.0132	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-7.90	-0.0116	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-7.00	-0.0103	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-8.00	-0.0118	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-7.60	-0.0112	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-8.00	-0.0118	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-7.80	-0.0115	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-5.70	-0.0084	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-8.10	-0.0119	$\geq -2.5 \text{ \& } \leq 2.5$	Pass