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			30	NV	-3.20	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-2.40	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			50	NV	3.10	0.0012	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	0.70	0.0003	≥ -2.5 & ≤ 2.5	Pass
				HV	-0.80	-0.0003	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-1.90	-0.0007	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-3.10	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-3.30	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-0.80	-0.0003	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-3.80	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			20	NV	0.90	0.0003	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-2.50	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			40	NV	2.20	0.0008	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-1.60	-0.0006	≥ -2.5 & ≤ 2.5	Pass
			CP-OFDM QPSK	2595	Outer_Full	20	LV	-9.90
HV	-10.70	-0.0041					≥ -2.5 & ≤ 2.5	Pass
-30	NV	-11.70				-0.0045	≥ -2.5 & ≤ 2.5	Pass
-20	NV	-7.00				-0.0027	≥ -2.5 & ≤ 2.5	Pass
-10	NV	-11.20				-0.0043	≥ -2.5 & ≤ 2.5	Pass
0	NV	-9.40				-0.0036	≥ -2.5 & ≤ 2.5	Pass
10	NV	-7.70				-0.0030	≥ -2.5 & ≤ 2.5	Pass
20	NV	-10.90				-0.0042	≥ -2.5 & ≤ 2.5	Pass
30	NV	-9.40				-0.0036	≥ -2.5 & ≤ 2.5	Pass
40	NV	-5.80				-0.0022	≥ -2.5 & ≤ 2.5	Pass
50	NV	-9.70	-0.0037	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	-6.70	-0.0026	≥ -2.5 & ≤ 2.5	Pass
				HV	-7.00	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-9.10	-0.0035	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-7.80	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-6.10	-0.0024	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-7.40	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-9.10	-0.0035	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-9.60	-0.0037	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-8.20	-0.0032	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-7.50	-0.0029	≥ -2.5 & ≤ 2.5	Pass
50	NV	-7.10	-0.0027	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-7.80	-0.0030	≥ -2.5 & ≤ 2.5	Pass
				HV	-7.50	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-5.90	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-8.70	-0.0034	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-8.10	-0.0031	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-10.00	-0.0039	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-7.70	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-9.40	-0.0036	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-8.10	-0.0031	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-8.20	-0.0032	≥ -2.5 & ≤ 2.5	Pass
50	NV	-6.70	-0.0026	≥ -2.5 & ≤ 2.5	Pass			
CP-OFDM 256 QAM	2595	Outer_Full	20	LV	-7.70	-0.0030	≥ -2.5 & ≤ 2.5	Pass
				HV	-8.20	-0.0032	≥ -2.5 & ≤ 2.5	Pass



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t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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			-30	NV	-5.70	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-6.50	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-3.00	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-5.90	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-6.80	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-6.50	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-4.60	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-7.80	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-11.20	-0.0043	≥ -2.5 & ≤ 2.5	Pass



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2.3 15k_SISO_15MHz

2.3.1 Test Result

5G NR n38 SCS=15kHz SISO 15MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2595	Outer_Full	20	LV	-7.80	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-11.60	-0.0045	>=-2.5 & <=2.5	Pass
			-30	NV	-11.00	-0.0042	>=-2.5 & <=2.5	Pass
			-20	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
			50	NV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
				HV	2.80	0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	2.50	0.0010	>=-2.5 & <=2.5	Pass
			30	NV	-3.20	-0.0012	>=-2.5 & <=2.5	Pass
			40	NV	-1.40	-0.0005	>=-2.5 & <=2.5	Pass
			50	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-10.90	-0.0042	>=-2.5 & <=2.5	Pass
				HV	-9.20	-0.0035	>=-2.5 & <=2.5	Pass
			-30	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-11.30	-0.0044	>=-2.5 & <=2.5	Pass
			-10	NV	-10.60	-0.0041	>=-2.5 & <=2.5	Pass
			0	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	1.50	0.0006	>=-2.5 & <=2.5	Pass
			20	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	4.90	0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			50	NV	-1.00	-0.0004	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-1.30	-0.0005	>=-2.5 & <=2.5	Pass
			-30	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	2.40	0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			0	NV	2.30	0.0009	>=-2.5 & <=2.5	Pass
			10	NV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
			20	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass



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			30	NV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
			40	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			50	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	-9.20	-0.0035	>=-2.5 & <=2.5	Pass
				HV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass
			-10	NV	1.40	0.0005	>=-2.5 & <=2.5	Pass
			0	NV	3.70	0.0014	>=-2.5 & <=2.5	Pass
			10	NV	1.30	0.0005	>=-2.5 & <=2.5	Pass
			20	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			30	NV	-1.30	-0.0005	>=-2.5 & <=2.5	Pass
			40	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			50	NV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
			CP-OFDM QPSK	2595	Outer_Full	20	LV	-3.90
HV	-3.80	-0.0015					>=-2.5 & <=2.5	Pass
-30	NV	-8.70				-0.0034	>=-2.5 & <=2.5	Pass
-20	NV	-4.20				-0.0016	>=-2.5 & <=2.5	Pass
-10	NV	-7.10				-0.0027	>=-2.5 & <=2.5	Pass
0	NV	-2.80				-0.0011	>=-2.5 & <=2.5	Pass
10	NV	-1.70				-0.0007	>=-2.5 & <=2.5	Pass
20	NV	-5.40				-0.0021	>=-2.5 & <=2.5	Pass
30	NV	-4.90				-0.0019	>=-2.5 & <=2.5	Pass
40	NV	1.40				0.0005	>=-2.5 & <=2.5	Pass
50	NV	-2.80				-0.0011	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2595	Outer_Full				20	LV	-4.60
			HV	-5.70	-0.0022		>=-2.5 & <=2.5	Pass
			-30	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass
			10	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
			40	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			50	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-6.40
HV	-4.40	-0.0017					>=-2.5 & <=2.5	Pass
-30	NV	-2.10				-0.0008	>=-2.5 & <=2.5	Pass
-20	NV	-8.10				-0.0031	>=-2.5 & <=2.5	Pass
-10	NV	-4.40				-0.0017	>=-2.5 & <=2.5	Pass
0	NV	-3.80				-0.0015	>=-2.5 & <=2.5	Pass
10	NV	-2.80				-0.0011	>=-2.5 & <=2.5	Pass
20	NV	-6.90				-0.0027	>=-2.5 & <=2.5	Pass
30	NV	-4.30				-0.0017	>=-2.5 & <=2.5	Pass
40	NV	-2.40				-0.0009	>=-2.5 & <=2.5	Pass
50	NV	-7.20				-0.0028	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2595	Outer_Full				20	LV	1.70
			HV	2.70	0.0010		>=-2.5 & <=2.5	Pass



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			-30	NV	-0.80	-0.0003	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	1.40	0.0005	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-5.60	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-3.30	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-3.00	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-6.20	-0.0024	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-3.10	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-5.70	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-4.70	-0.0018	≥ -2.5 & ≤ 2.5	Pass



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2.4 15k_SISO_20MHz

2.4.1 Test Result

5G NR n38 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	2595	Outer_Full	20	LV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
			0	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-9.30	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-10.80	-0.0042	>=-2.5 & <=2.5	Pass
			10	NV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			40	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
				HV	-7.80	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
			0	NV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			30	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
				HV	-9.90	-0.0038	>=-2.5 & <=2.5	Pass
			-30	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
			20	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass



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t (86-512) 62992980 www.sgs.com
t (86-512) 62992980 sgs.china@sgs.com

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			30	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-7.80	-0.0030	>=-2.5 & <=2.5	Pass
			50	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
				HV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
			-10	NV	4.40	0.0017	>=-2.5 & <=2.5	Pass
			0	NV	2.30	0.0009	>=-2.5 & <=2.5	Pass
			10	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	1.20	0.0005	>=-2.5 & <=2.5	Pass
			30	NV	2.60	0.0010	>=-2.5 & <=2.5	Pass
			40	NV	2.00	0.0008	>=-2.5 & <=2.5	Pass
			50	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
			CP-OFDM QPSK	2595	Outer_Full	20	LV	-6.20
HV	-8.80	-0.0034					>=-2.5 & <=2.5	Pass
-30	NV	-7.20				-0.0028	>=-2.5 & <=2.5	Pass
-20	NV	-10.30				-0.0040	>=-2.5 & <=2.5	Pass
-10	NV	-7.70				-0.0030	>=-2.5 & <=2.5	Pass
0	NV	-8.20				-0.0032	>=-2.5 & <=2.5	Pass
10	NV	-8.70				-0.0034	>=-2.5 & <=2.5	Pass
20	NV	-9.40				-0.0036	>=-2.5 & <=2.5	Pass
30	NV	-7.70				-0.0030	>=-2.5 & <=2.5	Pass
40	NV	-8.10				-0.0031	>=-2.5 & <=2.5	Pass
50	NV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	-9.30	-0.0036	>=-2.5 & <=2.5	Pass
				HV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			0	NV	-9.20	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
			40	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
50	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
				HV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			-30	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-10.20	-0.0039	>=-2.5 & <=2.5	Pass
			-10	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			40	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
50	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass			
CP-OFDM 256 QAM	2595	Outer_Full	20	LV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
				HV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass



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t (86-512) 62992980 www.sgs.com
t (86-512) 62992980 sgs.china@sgs.com

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			-30	NV	-7.50	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-7.20	-0.0028	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-9.70	-0.0037	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-7.30	-0.0028	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-8.10	-0.0031	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-7.00	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-7.60	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-5.80	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-8.20	-0.0032	≥ -2.5 & ≤ 2.5	Pass



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2.5 15k_SISO_25MHz

2.5.1 Test Result

5G NR n38 SCS=15kHz SISO 25MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2595	Outer_Full	20	LV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
				HV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-3.20	-0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-0.70	-0.0003	>=-2.5 & <=2.5	Pass
			10	NV	2.00	0.0008	>=-2.5 & <=2.5	Pass
			20	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
			30	NV	2.60	0.0010	>=-2.5 & <=2.5	Pass
			40	NV	1.90	0.0007	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-1.60	-0.0006	>=-2.5 & <=2.5	Pass
			-10	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-10.80	-0.0042	>=-2.5 & <=2.5	Pass
			20	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			30	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
			40	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-11.40	-0.0044	>=-2.5 & <=2.5	Pass
			-10	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			0	NV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-0.90	-0.0003	>=-2.5 & <=2.5	Pass
				HV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-4.80	-0.0018	>=-2.5 & <=2.5	Pass



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			30	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			50	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	2.90	0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-0.80	-0.0003	>=-2.5 & <=2.5	Pass
			0	NV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
			10	NV	0.50	0.0002	>=-2.5 & <=2.5	Pass
			20	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			30	NV	1.70	0.0007	>=-2.5 & <=2.5	Pass
			40	NV	-1.60	-0.0006	>=-2.5 & <=2.5	Pass
			50	NV	-1.30	-0.0005	>=-2.5 & <=2.5	Pass
			CP-OFDM QPSK	2595	Outer_Full	20	LV	-4.90
HV	-5.90	-0.0023					>=-2.5 & <=2.5	Pass
-30	NV	-3.90				-0.0015	>=-2.5 & <=2.5	Pass
-20	NV	-4.10				-0.0016	>=-2.5 & <=2.5	Pass
-10	NV	-4.00				-0.0015	>=-2.5 & <=2.5	Pass
0	NV	-5.70				-0.0022	>=-2.5 & <=2.5	Pass
10	NV	-2.30				-0.0009	>=-2.5 & <=2.5	Pass
20	NV	-6.40				-0.0025	>=-2.5 & <=2.5	Pass
30	NV	-7.60				-0.0029	>=-2.5 & <=2.5	Pass
40	NV	-5.90				-0.0023	>=-2.5 & <=2.5	Pass
50	NV	-5.70				-0.0022	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2595	Outer_Full				20	LV	-7.00
			HV	-8.60	-0.0033		>=-2.5 & <=2.5	Pass
			-30	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
			0	NV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass
			20	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-7.80	-0.0030	>=-2.5 & <=2.5	Pass
			50	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
			CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-9.70
HV	-7.30	-0.0028					>=-2.5 & <=2.5	Pass
-30	NV	-6.20				-0.0024	>=-2.5 & <=2.5	Pass
-20	NV	-6.20				-0.0024	>=-2.5 & <=2.5	Pass
-10	NV	-8.60				-0.0033	>=-2.5 & <=2.5	Pass
0	NV	-7.10				-0.0027	>=-2.5 & <=2.5	Pass
10	NV	-6.80				-0.0026	>=-2.5 & <=2.5	Pass
20	NV	-9.20				-0.0035	>=-2.5 & <=2.5	Pass
30	NV	-9.70				-0.0037	>=-2.5 & <=2.5	Pass
40	NV	-8.60				-0.0033	>=-2.5 & <=2.5	Pass
50	NV	-8.70				-0.0034	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2595	Outer_Full				20	LV	-2.70
			HV	1.70	0.0007		>=-2.5 & <=2.5	Pass



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			-30	NV	-2.60	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	1.30	0.0005	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	1.60	0.0006	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-4.10	-0.0016	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-3.60	-0.0014	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-2.30	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-4.00	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-2.70	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-4.70	-0.0018	≥ -2.5 & ≤ 2.5	Pass



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t (86-512) 62992980 www.sgsgroup.com.cn

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t (86-512) 62992980 sgs.china@sgs.com

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2.6 15k_SISO_30MHz

2.6.1 Test Result

5G NR n38 SCS=15kHz SISO 30MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2595	Outer_Full	20	LV	1.20	0.0005	>=-2.5 & <=2.5	Pass
				HV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-1.40	-0.0005	>=-2.5 & <=2.5	Pass
			0	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-1.10	-0.0004	>=-2.5 & <=2.5	Pass
			20	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
			40	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			50	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
			0	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			30	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
			50	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			20	NV	-4.80	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			50	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	2.50	0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass



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			30	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			50	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-7.80	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
			-10	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			0	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			40	NV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass
			50	NV	1.70	0.0007	>=-2.5 & <=2.5	Pass
			CP-OFDM QPSK	2595	Outer_Full	20	LV	-5.10
HV	-8.90	-0.0034					>=-2.5 & <=2.5	Pass
-30	NV	-10.10				-0.0039	>=-2.5 & <=2.5	Pass
-20	NV	-6.80				-0.0026	>=-2.5 & <=2.5	Pass
-10	NV	-6.20				-0.0024	>=-2.5 & <=2.5	Pass
0	NV	-8.40				-0.0032	>=-2.5 & <=2.5	Pass
10	NV	-6.90				-0.0027	>=-2.5 & <=2.5	Pass
20	NV	-10.00				-0.0039	>=-2.5 & <=2.5	Pass
30	NV	-7.70				-0.0030	>=-2.5 & <=2.5	Pass
40	NV	-6.20				-0.0024	>=-2.5 & <=2.5	Pass
50	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-9.20	-0.0035	>=-2.5 & <=2.5	Pass
			-30	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
50	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			0	NV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			20	NV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
			30	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
			40	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
50	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass			
CP-OFDM 256 QAM	2595	Outer_Full	20	LV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass



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t (86-512) 62992980 sgs.china@sgs.com

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			-30	NV	-3.50	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-3.40	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-1.20	-0.0005	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-1.40	-0.0005	≥ -2.5 & ≤ 2.5	Pass
			10	NV	0.90	0.0003	≥ -2.5 & ≤ 2.5	Pass
			20	NV	1.10	0.0004	≥ -2.5 & ≤ 2.5	Pass
			30	NV	2.40	0.0009	≥ -2.5 & ≤ 2.5	Pass
			40	NV	1.40	0.0005	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-5.80	-0.0022	≥ -2.5 & ≤ 2.5	Pass



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2.7 15k_SISO_40MHz

2.7.1 Test Result

5G NR n38 SCS=15kHz SISO 40MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2595	Outer_Full	20	LV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
			-30	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass
			10	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	2.70	0.0010	>=-2.5 & <=2.5	Pass
				HV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	2.30	0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	0.60	0.0002	>=-2.5 & <=2.5	Pass
			-10	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	2.50	0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
			20	NV	1.40	0.0005	>=-2.5 & <=2.5	Pass
			30	NV	1.60	0.0006	>=-2.5 & <=2.5	Pass
			40	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
			20	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-9.30	-0.0036	>=-2.5 & <=2.5	Pass
			40	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-1.20	-0.0005	>=-2.5 & <=2.5	Pass
				HV	4.50	0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			0	NV	-1.00	-0.0004	>=-2.5 & <=2.5	Pass
			10	NV	-3.20	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass



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			30	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
			50	NV	0.70	0.0003	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-11.50	-0.0044	>=-2.5 & <=2.5	Pass
			-30	NV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			20	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-10.20	-0.0039	>=-2.5 & <=2.5	Pass
			40	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			50	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			CP-OFDM QPSK	2595	Outer_Full	20	LV	-4.00
HV	-5.50	-0.0021					>=-2.5 & <=2.5	Pass
-30	NV	-1.40				-0.0005	>=-2.5 & <=2.5	Pass
-20	NV	-2.30				-0.0009	>=-2.5 & <=2.5	Pass
-10	NV	-2.00				-0.0008	>=-2.5 & <=2.5	Pass
0	NV	-6.20				-0.0024	>=-2.5 & <=2.5	Pass
10	NV	-6.10				-0.0024	>=-2.5 & <=2.5	Pass
20	NV	-3.10				-0.0012	>=-2.5 & <=2.5	Pass
30	NV	-5.60				-0.0022	>=-2.5 & <=2.5	Pass
40	NV	-1.90				-0.0007	>=-2.5 & <=2.5	Pass
50	NV	-3.60				-0.0014	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2595	Outer_Full				20	LV	-3.80
			HV	-5.20	-0.0020		>=-2.5 & <=2.5	Pass
			-30	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			50	NV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
			CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-4.60
HV	-6.90	-0.0027					>=-2.5 & <=2.5	Pass
-30	NV	-4.50				-0.0017	>=-2.5 & <=2.5	Pass
-20	NV	-5.60				-0.0022	>=-2.5 & <=2.5	Pass
-10	NV	-2.30				-0.0009	>=-2.5 & <=2.5	Pass
0	NV	-3.80				-0.0015	>=-2.5 & <=2.5	Pass
10	NV	-5.90				-0.0023	>=-2.5 & <=2.5	Pass
20	NV	-3.30				-0.0013	>=-2.5 & <=2.5	Pass
30	NV	-2.90				-0.0011	>=-2.5 & <=2.5	Pass
40	NV	-1.80				-0.0007	>=-2.5 & <=2.5	Pass
50	NV	-5.90				-0.0023	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2595	Outer_Full				20	LV	-2.20
			HV	-2.20	-0.0008		>=-2.5 & <=2.5	Pass



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t (86-512) 62992980 www.sgs.com
t (86-512) 62992980 sgs.china@sgs.com

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			-30	NV	-1.50	-0.0006	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-4.80	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-1.60	-0.0006	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-2.20	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			10	NV	4.90	0.0019	≥ -2.5 & ≤ 2.5	Pass
			20	NV	1.60	0.0006	≥ -2.5 & ≤ 2.5	Pass
			30	NV	5.70	0.0022	≥ -2.5 & ≤ 2.5	Pass
			40	NV	3.90	0.0015	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-3.40	-0.0013	≥ -2.5 & ≤ 2.5	Pass



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t (86-512) 62992980 www.sgsgroup.com.cn

中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 sgs.china@sgs.com

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2.8 30k_SISO_10MHz

2.8.1 Test Result

5G NR n38 SCS=30kHz SISO 10MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2595	Outer_Full	20	LV	0.10	0.0000	>=-2.5 & <=2.5	Pass
				HV	4.40	0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	0.90	0.0003	>=-2.5 & <=2.5	Pass
			-20	NV	3.10	0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	4.80	0.0018	>=-2.5 & <=2.5	Pass
			0	NV	3.30	0.0013	>=-2.5 & <=2.5	Pass
			10	NV	2.60	0.0010	>=-2.5 & <=2.5	Pass
			20	NV	3.20	0.0012	>=-2.5 & <=2.5	Pass
			30	NV	2.30	0.0009	>=-2.5 & <=2.5	Pass
			40	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			50	NV	4.80	0.0018	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			40	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
			50	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-4.80	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
			20	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			30	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			50	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	7.20	0.0028	>=-2.5 & <=2.5	Pass
			20	NV	1.50	0.0006	>=-2.5 & <=2.5	Pass



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			30	NV	4.10	0.0016	>=-2.5 & <=2.5	Pass
			40	NV	5.20	0.0020	>=-2.5 & <=2.5	Pass
			50	NV	3.50	0.0013	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
				HV	-0.70	-0.0003	>=-2.5 & <=2.5	Pass
			-30	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-1.60	-0.0006	>=-2.5 & <=2.5	Pass
			20	NV	0.90	0.0003	>=-2.5 & <=2.5	Pass
			30	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			50	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			CP-OFDM QPSK	2595	Outer_Full	20	LV	-5.80
HV	-7.70	-0.0030					>=-2.5 & <=2.5	Pass
-30	NV	-2.80				-0.0011	>=-2.5 & <=2.5	Pass
-20	NV	-4.50				-0.0017	>=-2.5 & <=2.5	Pass
-10	NV	-7.70				-0.0030	>=-2.5 & <=2.5	Pass
0	NV	-5.10				-0.0020	>=-2.5 & <=2.5	Pass
10	NV	-6.50				-0.0025	>=-2.5 & <=2.5	Pass
20	NV	-6.90				-0.0027	>=-2.5 & <=2.5	Pass
30	NV	-4.40				-0.0017	>=-2.5 & <=2.5	Pass
40	NV	-5.70				-0.0022	>=-2.5 & <=2.5	Pass
50	NV	-7.40				-0.0029	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2595	Outer_Full				20	LV	-2.70
			HV	-3.90	-0.0015		>=-2.5 & <=2.5	Pass
			-30	NV	4.20	0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-1.40	-0.0005	>=-2.5 & <=2.5	Pass
			-10	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-3.20	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-1.20	-0.0005	>=-2.5 & <=2.5	Pass
			20	NV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
			30	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			50	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			CP-OFDM 64 QAM	2595	Outer_Full	20	LV	4.50
HV	8.20	0.0032					>=-2.5 & <=2.5	Pass
-30	NV	5.00				0.0019	>=-2.5 & <=2.5	Pass
-20	NV	4.50				0.0017	>=-2.5 & <=2.5	Pass
-10	NV	3.50				0.0013	>=-2.5 & <=2.5	Pass
0	NV	7.80				0.0030	>=-2.5 & <=2.5	Pass
10	NV	3.10				0.0012	>=-2.5 & <=2.5	Pass
20	NV	3.10				0.0012	>=-2.5 & <=2.5	Pass
30	NV	3.10				0.0012	>=-2.5 & <=2.5	Pass
40	NV	2.20				0.0008	>=-2.5 & <=2.5	Pass
50	NV	3.10				0.0012	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2595	Outer_Full				20	LV	3.20
			HV	3.20	0.0012		>=-2.5 & <=2.5	Pass



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			-30	NV	5.60	0.0022	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	6.10	0.0024	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	5.90	0.0023	≥ -2.5 & ≤ 2.5	Pass
			0	NV	2.60	0.0010	≥ -2.5 & ≤ 2.5	Pass
			10	NV	5.70	0.0022	≥ -2.5 & ≤ 2.5	Pass
			20	NV	3.00	0.0012	≥ -2.5 & ≤ 2.5	Pass
			30	NV	4.20	0.0016	≥ -2.5 & ≤ 2.5	Pass
			40	NV	8.10	0.0031	≥ -2.5 & ≤ 2.5	Pass
			50	NV	6.70	0.0026	≥ -2.5 & ≤ 2.5	Pass



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2.9 30k_SISO_15MHz

2.9.1 Test Result

5G NR n38 SCS=30kHz SISO 15MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2595	Outer_Full	20	LV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-10.30	-0.0040	>=-2.5 & <=2.5	Pass
			10	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			30	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			40	NV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass
			50	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
				HV	-9.30	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
			10	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-11.90	-0.0046	>=-2.5 & <=2.5	Pass
			30	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			40	NV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass
			50	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
				HV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
			50	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	2.90	0.0011	>=-2.5 & <=2.5	Pass
				HV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-0.50	-0.0002	>=-2.5 & <=2.5	Pass
			-20	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass



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			30	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			50	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	2.30	0.0009	>=-2.5 & <=2.5	Pass
				HV	4.50	0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	3.40	0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	4.00	0.0015	>=-2.5 & <=2.5	Pass
			0	NV	2.00	0.0008	>=-2.5 & <=2.5	Pass
			10	NV	3.10	0.0012	>=-2.5 & <=2.5	Pass
			20	NV	5.40	0.0021	>=-2.5 & <=2.5	Pass
			30	NV	7.50	0.0029	>=-2.5 & <=2.5	Pass
			40	NV	3.60	0.0014	>=-2.5 & <=2.5	Pass
			50	NV	2.90	0.0011	>=-2.5 & <=2.5	Pass
			CP-OFDM QPSK	2595	Outer_Full	20	LV	-2.90
HV	3.90	0.0015					>=-2.5 & <=2.5	Pass
-30	NV	-3.40				-0.0013	>=-2.5 & <=2.5	Pass
-20	NV	-1.40				-0.0005	>=-2.5 & <=2.5	Pass
-10	NV	1.50				0.0006	>=-2.5 & <=2.5	Pass
0	NV	1.30				0.0005	>=-2.5 & <=2.5	Pass
10	NV	3.70				0.0014	>=-2.5 & <=2.5	Pass
20	NV	0.80				0.0003	>=-2.5 & <=2.5	Pass
30	NV	-0.90				-0.0003	>=-2.5 & <=2.5	Pass
40	NV	-4.90				-0.0019	>=-2.5 & <=2.5	Pass
50	NV	-3.60				-0.0014	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2595	Outer_Full				20	LV	1.30
			HV	-3.70	-0.0014		>=-2.5 & <=2.5	Pass
			-30	NV	1.20	0.0005	>=-2.5 & <=2.5	Pass
			-20	NV	3.40	0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	1.70	0.0007	>=-2.5 & <=2.5	Pass
			10	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-4.80	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			50	NV	3.70	0.0014	>=-2.5 & <=2.5	Pass
			CP-OFDM 64 QAM	2595	Outer_Full	20	LV	4.90
HV	7.10	0.0027					>=-2.5 & <=2.5	Pass
-30	NV	3.10				0.0012	>=-2.5 & <=2.5	Pass
-20	NV	1.90				0.0007	>=-2.5 & <=2.5	Pass
-10	NV	2.70				0.0010	>=-2.5 & <=2.5	Pass
0	NV	-1.80				-0.0007	>=-2.5 & <=2.5	Pass
10	NV	3.20				0.0012	>=-2.5 & <=2.5	Pass
20	NV	4.80				0.0018	>=-2.5 & <=2.5	Pass
30	NV	4.80				0.0018	>=-2.5 & <=2.5	Pass
40	NV	2.70				0.0010	>=-2.5 & <=2.5	Pass
50	NV	3.80				0.0015	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2595	Outer_Full				20	LV	-1.60
			HV	3.50	0.0013		>=-2.5 & <=2.5	Pass



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t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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			-30	NV	1.50	0.0006	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-5.00	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	1.50	0.0006	≥ -2.5 & ≤ 2.5	Pass
			0	NV	1.90	0.0007	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-2.20	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-1.70	-0.0007	≥ -2.5 & ≤ 2.5	Pass
			30	NV	2.10	0.0008	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-2.20	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-0.40	-0.0002	≥ -2.5 & ≤ 2.5	Pass



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t (86-512) 62992980 www.sgsgroup.com.cn

中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南部 邮编：215000

t (86-512) 62992980 sgs.china@sgs.com

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2.10 30k_SISO_20MHz

2.10.1 Test Result

5G NR n38 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	2595	Outer_Full	20	LV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	3.70	0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-3.20	-0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	1.30	0.0005	>=-2.5 & <=2.5	Pass
			0	NV	1.30	0.0005	>=-2.5 & <=2.5	Pass
			10	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	2.00	0.0008	>=-2.5 & <=2.5	Pass
			30	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			40	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			50	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
			-20	NV	-10.20	-0.0039	>=-2.5 & <=2.5	Pass
			-10	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			20	NV	-10.40	-0.0040	>=-2.5 & <=2.5	Pass
			30	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
			50	NV	-9.90	-0.0038	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
				HV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass
			-20	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-11.00	-0.0042	>=-2.5 & <=2.5	Pass
			10	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-7.80	-0.0030	>=-2.5 & <=2.5	Pass
			30	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			50	NV	-10.30	-0.0040	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-10.60	-0.0041	>=-2.5 & <=2.5	Pass
				HV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-7.80	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass



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中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

t (86-512) 62992980 www.sgs.com
t (86-512) 62992980 sgs.china@sgs.com

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			30	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			50	NV	-4.80	-0.0018	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
				HV	5.50	0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	4.20	0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	4.40	0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	1.90	0.0007	>=-2.5 & <=2.5	Pass
			0	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	3.40	0.0013	>=-2.5 & <=2.5	Pass
			20	NV	6.40	0.0025	>=-2.5 & <=2.5	Pass
			30	NV	3.30	0.0013	>=-2.5 & <=2.5	Pass
			40	NV	2.00	0.0008	>=-2.5 & <=2.5	Pass
			50	NV	1.60	0.0006	>=-2.5 & <=2.5	Pass
			CP-OFDM QPSK	2595	Outer_Full	20	LV	-3.50
HV	-2.90	-0.0011					>=-2.5 & <=2.5	Pass
-30	NV	-3.80				-0.0015	>=-2.5 & <=2.5	Pass
-20	NV	1.30				0.0005	>=-2.5 & <=2.5	Pass
-10	NV	-4.80				-0.0018	>=-2.5 & <=2.5	Pass
0	NV	-1.90				-0.0007	>=-2.5 & <=2.5	Pass
10	NV	-1.60				-0.0006	>=-2.5 & <=2.5	Pass
20	NV	-1.80				-0.0007	>=-2.5 & <=2.5	Pass
30	NV	-1.90				-0.0007	>=-2.5 & <=2.5	Pass
40	NV	-3.80				-0.0015	>=-2.5 & <=2.5	Pass
50	NV	-0.50	-0.0002	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
				HV	2.50	0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	2.00	0.0008	>=-2.5 & <=2.5	Pass
			10	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	0.80	0.0003	>=-2.5 & <=2.5	Pass
			30	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
50	NV	-1.00	-0.0004	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
50	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass			
CP-OFDM 256 QAM	2595	Outer_Full	20	LV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
				HV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass



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			-30	NV	-3.50	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-5.30	-0.0020	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-6.20	-0.0024	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-7.60	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-5.40	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-6.40	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-2.20	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-5.50	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-3.10	-0.0012	≥ -2.5 & ≤ 2.5	Pass



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2.11 30k_SISO_25MHz

2.11.1 Test Result

5G NR n38 SCS=30kHz SISO 25MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2595	Outer_Full	20	LV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
				HV	4.20	0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	3.70	0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	3.60	0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	5.70	0.0022	>=-2.5 & <=2.5	Pass
			0	NV	4.90	0.0019	>=-2.5 & <=2.5	Pass
			10	NV	1.60	0.0006	>=-2.5 & <=2.5	Pass
			20	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
			30	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
			40	NV	4.10	0.0016	>=-2.5 & <=2.5	Pass
			50	NV	5.40	0.0021	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	1.60	0.0006	>=-2.5 & <=2.5	Pass
				HV	2.80	0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	-1.60	-0.0006	>=-2.5 & <=2.5	Pass
			10	NV	3.30	0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			50	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	2.20	0.0008	>=-2.5 & <=2.5	Pass
				HV	3.90	0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	3.40	0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	2.80	0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	2.60	0.0010	>=-2.5 & <=2.5	Pass
			0	NV	4.10	0.0016	>=-2.5 & <=2.5	Pass
			10	NV	5.50	0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-1.40	-0.0005	>=-2.5 & <=2.5	Pass
			30	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			40	NV	5.70	0.0022	>=-2.5 & <=2.5	Pass
			50	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	3.40	0.0013	>=-2.5 & <=2.5	Pass
				HV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	2.30	0.0009	>=-2.5 & <=2.5	Pass
			20	NV	2.70	0.0010	>=-2.5 & <=2.5	Pass



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t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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			30	NV	1.70	0.0007	≥ -2.5 & ≤ 2.5	Pass
			40	NV	2.10	0.0008	≥ -2.5 & ≤ 2.5	Pass
			50	NV	2.40	0.0009	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	2.10	0.0008	≥ -2.5 & ≤ 2.5	Pass
				HV	1.50	0.0006	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	3.20	0.0012	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	3.80	0.0015	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	3.30	0.0013	≥ -2.5 & ≤ 2.5	Pass
			0	NV	3.90	0.0015	≥ -2.5 & ≤ 2.5	Pass
			10	NV	5.10	0.0020	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-3.30	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			30	NV	1.70	0.0007	≥ -2.5 & ≤ 2.5	Pass
			40	NV	2.90	0.0011	≥ -2.5 & ≤ 2.5	Pass
			50	NV	3.30	0.0013	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM QPSK	2595	Outer_Full	20	LV	4.10	0.0016	≥ -2.5 & ≤ 2.5	Pass
				HV	5.10	0.0020	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	4.50	0.0017	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	4.20	0.0016	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	2.90	0.0011	≥ -2.5 & ≤ 2.5	Pass
			0	NV	6.50	0.0025	≥ -2.5 & ≤ 2.5	Pass
			10	NV	2.90	0.0011	≥ -2.5 & ≤ 2.5	Pass
			20	NV	5.10	0.0020	≥ -2.5 & ≤ 2.5	Pass
			30	NV	6.70	0.0026	≥ -2.5 & ≤ 2.5	Pass
			40	NV	4.80	0.0018	≥ -2.5 & ≤ 2.5	Pass
			50	NV	3.10	0.0012	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	3.60	0.0014	≥ -2.5 & ≤ 2.5	Pass
				HV	0.50	0.0002	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-1.40	-0.0005	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-3.50	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	1.30	0.0005	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-2.60	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-2.60	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-2.60	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			30	NV	2.40	0.0009	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-3.50	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-4.40	-0.0017	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-4.70	-0.0018	≥ -2.5 & ≤ 2.5	Pass
				HV	2.40	0.0009	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-3.10	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-2.10	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	3.00	0.0012	≥ -2.5 & ≤ 2.5	Pass
			0	NV	1.90	0.0007	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-3.80	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-3.40	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-4.30	-0.0017	≥ -2.5 & ≤ 2.5	Pass
			40	NV	0.80	0.0003	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-2.90	-0.0011	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 256 QAM	2595	Outer_Full	20	LV	3.10	0.0012	≥ -2.5 & ≤ 2.5	Pass
				HV	-1.70	-0.0007	≥ -2.5 & ≤ 2.5	Pass



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t (86-512) 62992980 sgs.china@sgs.com

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			-30	NV	3.30	0.0013	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	4.80	0.0018	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	3.30	0.0013	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-4.10	-0.0016	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-1.40	-0.0005	≥ -2.5 & ≤ 2.5	Pass
			20	NV	2.50	0.0010	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-4.40	-0.0017	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-3.80	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			50	NV	2.10	0.0008	≥ -2.5 & ≤ 2.5	Pass



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2.12 30k_SISO_30MHz

2.12.1 Test Result

5G NR n38 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	2595	Outer_Full	20	LV	-1.60	-0.0006	>=-2.5 & <=2.5	Pass
				HV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	-1.40	-0.0005	>=-2.5 & <=2.5	Pass
			-10	NV	1.80	0.0007	>=-2.5 & <=2.5	Pass
			0	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			10	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
			30	NV	2.30	0.0009	>=-2.5 & <=2.5	Pass
			40	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass
			50	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	-4.80	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	4.10	0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	0.50	0.0002	>=-2.5 & <=2.5	Pass
			20	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			50	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	2.40	0.0009	>=-2.5 & <=2.5	Pass
				HV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass
			-30	NV	3.10	0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	2.50	0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	5.50	0.0021	>=-2.5 & <=2.5	Pass
			0	NV	3.90	0.0015	>=-2.5 & <=2.5	Pass
			10	NV	5.10	0.0020	>=-2.5 & <=2.5	Pass
			20	NV	2.30	0.0009	>=-2.5 & <=2.5	Pass
			30	NV	6.80	0.0026	>=-2.5 & <=2.5	Pass
			40	NV	4.30	0.0017	>=-2.5 & <=2.5	Pass
			50	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass
				HV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
			-30	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-4.80	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
			20	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass



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DFT-s-OFDM 256 QAM	2595	Outer_Full	30	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			40	NV	6.40	0.0025	>=-2.5 & <=2.5	Pass
			50	NV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass
			20	LV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
				HV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
			20	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			30	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	2595	Outer_Full	40	NV	-1.60	-0.0006	>=-2.5 & <=2.5	Pass
			50	NV	6.70	0.0026	>=-2.5 & <=2.5	Pass
			20	LV	1.90	0.0007	>=-2.5 & <=2.5	Pass
				HV	5.80	0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	2.30	0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	1.40	0.0005	>=-2.5 & <=2.5	Pass
			-10	NV	3.20	0.0012	>=-2.5 & <=2.5	Pass
			0	NV	4.30	0.0017	>=-2.5 & <=2.5	Pass
			10	NV	3.80	0.0015	>=-2.5 & <=2.5	Pass
			20	NV	3.50	0.0013	>=-2.5 & <=2.5	Pass
			30	NV	4.50	0.0017	>=-2.5 & <=2.5	Pass
			40	NV	5.20	0.0020	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2595	Outer_Full	50	NV	3.70	0.0014	>=-2.5 & <=2.5	Pass
			20	LV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
				HV	2.50	0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	1.70	0.0007	>=-2.5 & <=2.5	Pass
			10	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
			20	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			30	NV	2.50	0.0010	>=-2.5 & <=2.5	Pass
			40	NV	6.20	0.0024	>=-2.5 & <=2.5	Pass
			50	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	1.50	0.0006	>=-2.5 & <=2.5	Pass
				HV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-1.00	-0.0004	>=-2.5 & <=2.5	Pass
			0	NV	2.10	0.0008	>=-2.5 & <=2.5	Pass
			10	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			30	NV	4.60	0.0018	>=-2.5 & <=2.5	Pass
			40	NV	3.30	0.0013	>=-2.5 & <=2.5	Pass
			50	NV	2.50	0.0010	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2595	Outer_Full	20	LV	3.80	0.0015	>=-2.5 & <=2.5	Pass
				HV	2.80	0.0011	>=-2.5 & <=2.5	Pass



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			-30	NV	-2.00	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-2.30	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-2.50	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-2.80	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			10	NV	1.70	0.0007	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-2.00	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			30	NV	2.20	0.0008	≥ -2.5 & ≤ 2.5	Pass
			40	NV	3.30	0.0013	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-2.50	-0.0010	≥ -2.5 & ≤ 2.5	Pass



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t (86-512) 62992980 www.sgsgroup.com.cn

中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南部 邮编：215000

t (86-512) 62992980 sgs.china@sgs.com

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2.13 30k_SISO_40MHz

2.13.1 Test Result

5G NR n38 SCS=30kHz SISO 40MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2595	Outer_Full	20	LV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass
				HV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	0.70	0.0003	>=-2.5 & <=2.5	Pass
			-20	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	3.40	0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
			50	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			20	LV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2595	Outer_Full	20	HV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
				NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			-20	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			50	NV	4.00	0.0015	>=-2.5 & <=2.5	Pass
			20	HV	2.40	0.0009	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	NV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass
				NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	2.70	0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	6.60	0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	6.30	0.0024	>=-2.5 & <=2.5	Pass
			0	NV	2.90	0.0011	>=-2.5 & <=2.5	Pass
			10	NV	2.10	0.0008	>=-2.5 & <=2.5	Pass
			20	NV	6.10	0.0024	>=-2.5 & <=2.5	Pass
			30	NV	5.50	0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			50	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
			20	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	NV	-1.40	-0.0005	>=-2.5 & <=2.5	Pass
				NV	2.10	0.0008	>=-2.5 & <=2.5	Pass
			-30	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	-1.30	-0.0005	>=-2.5 & <=2.5	Pass
			-10	NV	-3.20	-0.0012	>=-2.5 & <=2.5	Pass
			0	NV				
			10	NV				
			20	NV				
			30	NV				
			40	NV				
			50	NV				
			20	NV				



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中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

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t (86-512) 62992980 sgs.china@sgs.com

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			30	NV	-5.30	-0.0020	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-2.50	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-2.40	-0.0009	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	-4.20	-0.0016	≥ -2.5 & ≤ 2.5	Pass
				HV	-6.20	-0.0024	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-4.90	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-2.80	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-7.20	-0.0028	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-6.70	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-2.50	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-4.70	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-2.90	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-8.00	-0.0031	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-8.10	-0.0031	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM QPSK	2595	Outer_Full	20	LV	1.70	0.0007	≥ -2.5 & ≤ 2.5	Pass
				HV	-2.30	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	2.30	0.0009	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	2.00	0.0008	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	2.90	0.0011	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-2.20	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-3.20	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			20	NV	2.70	0.0010	≥ -2.5 & ≤ 2.5	Pass
			30	NV	3.60	0.0014	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-3.30	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			50	NV	3.90	0.0015	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	-1.40	-0.0005	≥ -2.5 & ≤ 2.5	Pass
				HV	0.80	0.0003	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	6.70	0.0026	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	1.90	0.0007	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-0.40	-0.0002	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-1.50	-0.0006	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-2.40	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-1.90	-0.0007	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-5.40	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-0.90	-0.0003	≥ -2.5 & ≤ 2.5	Pass
			50	NV	1.00	0.0004	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-4.80	-0.0018	≥ -2.5 & ≤ 2.5	Pass
				HV	-2.50	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-3.00	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-7.10	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-5.40	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-3.50	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-4.80	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-3.50	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-4.80	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-5.80	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-3.20	-0.0012	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 256 QAM	2595	Outer_Full	20	LV	4.10	0.0016	≥ -2.5 & ≤ 2.5	Pass
				HV	7.70	0.0030	≥ -2.5 & ≤ 2.5	Pass



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			-30	NV	-2.20	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	1.20	0.0005	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-3.20	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			0	NV	3.00	0.0012	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-4.60	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-1.70	-0.0007	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-2.00	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			40	NV	4.70	0.0018	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-3.60	-0.0014	≥ -2.5 & ≤ 2.5	Pass



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t (86-512) 62992980 sgs.china@sgs.com

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3. Field Strength of Spurious Radiation

Test Band = SA Band 38_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17980.5	37.84	-36.57	45.18	-48.81	-25.00	23.81	Horizontal
2	5144.18	45.60	-47.85	31.85	-65.66	-25.00	40.66	Horizontal
3	7716.27	45.15	-45.16	36.54	-58.73	-25.00	33.73	Horizontal
4	10288.36	40.65	-41.26	38.76	-57.11	-25.00	32.11	Horizontal
5	12860.45	39.78	-39.38	38.68	-56.17	-25.00	31.17	Horizontal
6	15432.54	36.93	-37.50	39.28	-56.55	-25.00	31.55	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17981	38.11	-36.57	45.18	-48.54	-25.00	23.54	Vertical
2	5144.18	45.54	-47.85	31.85	-65.72	-25.00	40.72	Vertical
3	7716.27	44.80	-45.16	36.54	-59.08	-25.00	34.08	Vertical
4	10288.36	41.35	-41.26	38.76	-56.41	-25.00	31.41	Vertical
5	12860.45	39.91	-39.38	38.68	-56.04	-25.00	31.04	Vertical
6	15432.54	36.75	-37.50	39.28	-56.73	-25.00	31.73	Vertical



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Test Band = SA Band 38_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17983	37.84	-36.57	45.19	-48.80	-25.00	23.80	Horizontal
2	5154.18	45.48	-47.86	31.87	-65.77	-25.00	40.77	Horizontal
3	7731.27	44.80	-45.12	36.52	-59.05	-25.00	34.05	Horizontal
4	10308.36	39.97	-41.16	38.78	-57.67	-25.00	32.67	Horizontal
5	12885.45	38.76	-39.41	38.67	-57.24	-25.00	32.24	Horizontal
6	15462.54	37.67	-37.76	39.22	-56.13	-25.00	31.13	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17974.5	38.04	-36.56	45.14	-48.64	-25.00	23.64	Vertical
2	5154.18	45.23	-47.86	31.87	-66.02	-25.00	41.02	Vertical
3	7731.27	45.14	-45.12	36.52	-58.71	-25.00	33.71	Vertical
4	10308.36	40.72	-41.16	38.78	-56.92	-25.00	31.92	Vertical
5	12885.45	39.69	-39.41	38.67	-56.31	-25.00	31.31	Vertical
6	15462.54	37.23	-37.76	39.22	-56.57	-25.00	31.57	Vertical



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Test Band = SA Band 38_ TM1

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17977.5	38.14	-36.56	45.16	-48.53	-25.00	23.53	Horizontal
2	5164.18	45.66	-47.87	31.89	-65.57	-25.00	40.57	Horizontal
3	7746.27	45.10	-45.07	36.50	-58.73	-25.00	33.73	Horizontal
4	10328.36	40.10	-41.18	38.80	-57.54	-25.00	32.54	Horizontal
5	12910.45	39.88	-39.43	38.65	-56.15	-25.00	31.15	Horizontal
6	15492.54	36.92	-38.01	39.16	-57.19	-25.00	32.19	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17981.5	38.19	-36.57	45.18	-48.46	-25.00	23.46	Vertical
2	5164.18	45.58	-47.87	31.89	-65.65	-25.00	40.65	Vertical
3	7746.27	45.45	-45.07	36.50	-58.38	-25.00	33.38	Vertical
4	10328.36	40.03	-41.18	38.80	-57.61	-25.00	32.61	Vertical
5	12910.45	39.29	-39.43	38.65	-56.74	-25.00	31.74	Vertical
6	15492.54	37.58	-38.01	39.16	-56.53	-25.00	31.53	Vertical



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t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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Report No.: SEWM2311000456RG02

Rev.: 01

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Test Band = NSA 4A_N38A_TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17908	38.83	-36.45	44.71	-48.17	-25.00	23.17	Horizontal
2	5144.18	45.83	-47.85	31.85	-65.43	-25.00	40.43	Horizontal
3	7716.27	44.80	-45.16	36.54	-59.08	-25.00	34.08	Horizontal
4	10288.36	40.96	-41.26	38.76	-56.80	-25.00	31.80	Horizontal
5	12860.45	38.95	-39.38	38.68	-57.00	-25.00	32.00	Horizontal
6	15432.54	37.10	-37.50	39.28	-56.38	-25.00	31.38	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17888	39.04	-36.56	44.58	-48.19	-25.00	23.19	Vertical
2	5144.18	46.50	-47.85	31.85	-64.76	-25.00	39.76	Vertical
3	7716.27	45.02	-45.16	36.54	-58.86	-25.00	33.86	Vertical
4	10288.36	42.07	-41.26	38.76	-55.69	-25.00	30.69	Vertical
5	12860.45	39.13	-39.38	38.68	-56.82	-25.00	31.82	Vertical
6	15432.54	36.63	-37.50	39.28	-56.85	-25.00	31.85	Vertical



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215000
215000
t (86-512) 62992980
t (86-512) 62992980
www.sgsgroup.com.cn
sgs.china@sgs.com

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Test Band = NSA 4A_N38A_TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17873.5	37.81	-36.70	44.49	-49.66	-25.00	24.66	Horizontal
2	5154.18	45.01	-47.86	31.87	-66.24	-25.00	41.24	Horizontal
3	7731.27	44.90	-45.12	36.52	-58.95	-25.00	33.95	Horizontal
4	10308.36	40.31	-41.16	38.78	-57.33	-25.00	32.33	Horizontal
5	12885.45	38.80	-39.41	38.67	-57.20	-25.00	32.20	Horizontal
6	15462.54	38.00	-37.76	39.22	-55.80	-25.00	30.80	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17983.5	38.11	-36.57	45.19	-48.53	-25.00	23.53	Vertical
2	5154.18	45.30	-47.86	31.87	-65.95	-25.00	40.95	Vertical
3	7731.27	44.86	-45.12	36.52	-58.99	-25.00	33.99	Vertical
4	10308.36	40.50	-41.16	38.78	-57.14	-25.00	32.14	Vertical
5	12885.45	39.46	-39.41	38.67	-56.54	-25.00	31.54	Vertical
6	15462.54	37.71	-37.76	39.22	-56.09	-25.00	31.09	Vertical



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t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980 sgs.china@sgs.com

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Test Band = NSA 4A_N38A_TM1

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17802	39.18	-37.40	44.03	-49.45	-25.00	24.45	Horizontal
2	5164.18	46.73	-47.87	31.89	-64.50	-25.00	39.50	Horizontal
3	7746.27	45.04	-45.07	36.50	-58.79	-25.00	33.79	Horizontal
4	10328.36	40.00	-41.18	38.80	-57.64	-25.00	32.64	Horizontal
5	12910.45	39.47	-39.43	38.65	-56.56	-25.00	31.56	Horizontal
6	15492.54	37.87	-38.01	39.16	-56.24	-25.00	31.24	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17973.5	38.16	-36.56	45.13	-48.53	-25.00	23.53	Vertical
2	5164.18	46.19	-47.87	31.89	-65.04	-25.00	40.04	Vertical
3	7746.27	45.28	-45.07	36.50	-58.55	-25.00	33.55	Vertical
4	10328.36	40.06	-41.18	38.80	-57.58	-25.00	32.58	Vertical
5	12910.45	38.91	-39.43	38.65	-57.12	-25.00	32.12	Vertical
6	15492.54	36.90	-38.01	39.16	-57.21	-25.00	32.21	Vertical



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邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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Test Band = NSA 66A_N38A_TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4673.5	47.42	-47.97	30.72	-65.09	-25.00	40.09	Horizontal
2	5383	47.90	-47.73	32.42	-62.67	-25.00	37.67	Horizontal
3	8780	46.31	-44.02	37.29	-55.67	-25.00	30.67	Horizontal
4	11940.5	41.16	-39.76	39.21	-54.65	-25.00	29.65	Horizontal
5	14387	40.31	-38.56	40.59	-52.92	-25.00	27.92	Horizontal
6	17970.5	38.48	-36.55	45.11	-48.22	-25.00	23.22	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4311	47.04	-47.82	29.96	-66.08	-25.00	41.08	Vertical
2	5990.5	47.57	-47.47	32.80	-62.36	-25.00	37.36	Vertical
3	8714	45.83	-44.10	37.20	-56.33	-25.00	31.33	Vertical
4	11796	41.09	-39.86	39.24	-54.79	-25.00	29.79	Vertical
5	14779.5	38.89	-36.82	40.28	-52.91	-25.00	27.91	Vertical
6	17975	37.96	-36.56	45.14	-48.72	-25.00	23.72	Vertical



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t (86-512) 62992980 sgs.china@sgs.com

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Test Band = NSA 66A_N38A_TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4326.5	47.32	-47.87	29.99	-65.82	-25.00	40.82	Horizontal
2	5388	47.87	-47.73	32.43	-62.69	-25.00	37.69	Horizontal
3	7775	46.27	-44.99	36.47	-57.51	-25.00	32.51	Horizontal
4	9883	43.62	-42.13	38.39	-55.37	-25.00	30.37	Horizontal
5	12132.5	41.90	-39.69	39.12	-53.93	-25.00	28.93	Horizontal
6	14310	40.21	-38.44	40.65	-52.83	-25.00	27.83	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3965	48.14	-48.22	29.35	-65.99	-25.00	40.99	Vertical
2	5282	47.23	-47.80	32.18	-63.65	-25.00	38.65	Vertical
3	7390	46.28	-46.17	36.54	-58.61	-25.00	33.61	Vertical
4	9407.5	44.54	-43.00	37.97	-55.75	-25.00	30.75	Vertical
5	13671	40.13	-38.28	40.14	-53.27	-25.00	28.27	Vertical
6	14832.5	39.44	-37.02	40.23	-52.61	-25.00	27.61	Vertical



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215000
215000
t (86-512) 62992980
t (86-512) 62992980
www.sgsgroup.com.cn
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Test Band = NSA 66A_N38A_TM1

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3968.5	47.13	-48.21	29.36	-66.99	-25.00	41.99	Horizontal
2	5821.5	47.41	-47.54	32.76	-62.63	-25.00	37.63	Horizontal
3	7669.5	46.24	-45.01	36.60	-57.44	-25.00	32.44	Horizontal
4	9387.5	45.00	-43.03	37.95	-55.34	-25.00	30.34	Horizontal
5	11937	41.44	-39.78	39.21	-54.39	-25.00	29.39	Horizontal
6	14377.5	39.84	-38.54	40.60	-53.37	-25.00	28.37	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3939.5	47.24	-48.25	29.32	-66.95	-25.00	41.95	Vertical
2	5320	48.24	-47.77	32.27	-62.52	-25.00	37.52	Vertical
3	7622	45.46	-44.71	36.65	-57.86	-25.00	32.86	Vertical
4	9416.5	44.78	-42.94	37.97	-55.44	-25.00	30.44	Vertical
5	12733.5	41.38	-39.28	38.76	-54.40	-25.00	29.40	Vertical
6	14902.5	39.17	-37.39	40.18	-53.30	-25.00	28.30	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.



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邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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4. 99% & 26dB Bandwidth

4.1 15k_SISO_5MHz_NTNV

4.1.1 Test Result

5G NR n38 SCS=15kHz SISO 5MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2572.5	Outer_Full	4.54	5.00	/	Pass
	2595	Outer_Full	4.55	4.96	/	Pass
	2617.5	Outer_Full	4.54	4.97	/	Pass
DFT-s-OFDM QPSK	2572.5	Outer_Full	4.56	4.95	/	Pass
	2595	Outer_Full	4.56	4.97	/	Pass
	2617.5	Outer_Full	4.56	4.96	/	Pass
DFT-s-OFDM 16 QAM	2572.5	Outer_Full	4.53	4.99	/	Pass
	2595	Outer_Full	4.53	4.99	/	Pass
	2617.5	Outer_Full	4.52	5.03	/	Pass
DFT-s-OFDM 64 QAM	2572.5	Outer_Full	4.54	4.97	/	Pass
	2595	Outer_Full	4.55	4.97	/	Pass
	2617.5	Outer_Full	4.55	4.98	/	Pass
DFT-s-OFDM 256 QAM	2572.5	Outer_Full	4.52	4.99	/	Pass
	2595	Outer_Full	4.54	4.99	/	Pass
	2617.5	Outer_Full	4.54	4.95	/	Pass
CP-OFDM QPSK	2572.5	Outer_Full	4.53	4.96	/	Pass
	2595	Outer_Full	4.52	4.96	/	Pass
	2617.5	Outer_Full	4.51	5.02	/	Pass
CP-OFDM 16 QAM	2572.5	Outer_Full	4.52	4.95	/	Pass
	2595	Outer_Full	4.52	4.98	/	Pass
	2617.5	Outer_Full	4.52	4.97	/	Pass
CP-OFDM 64 QAM	2572.5	Outer_Full	4.51	4.99	/	Pass
	2595	Outer_Full	4.51	4.96	/	Pass
	2617.5	Outer_Full	4.51	5.00	/	Pass
CP-OFDM 256 QAM	2572.5	Outer_Full	4.52	4.95	/	Pass
	2595	Outer_Full	4.52	4.96	/	Pass
	2617.5	Outer_Full	4.51	4.90	/	Pass



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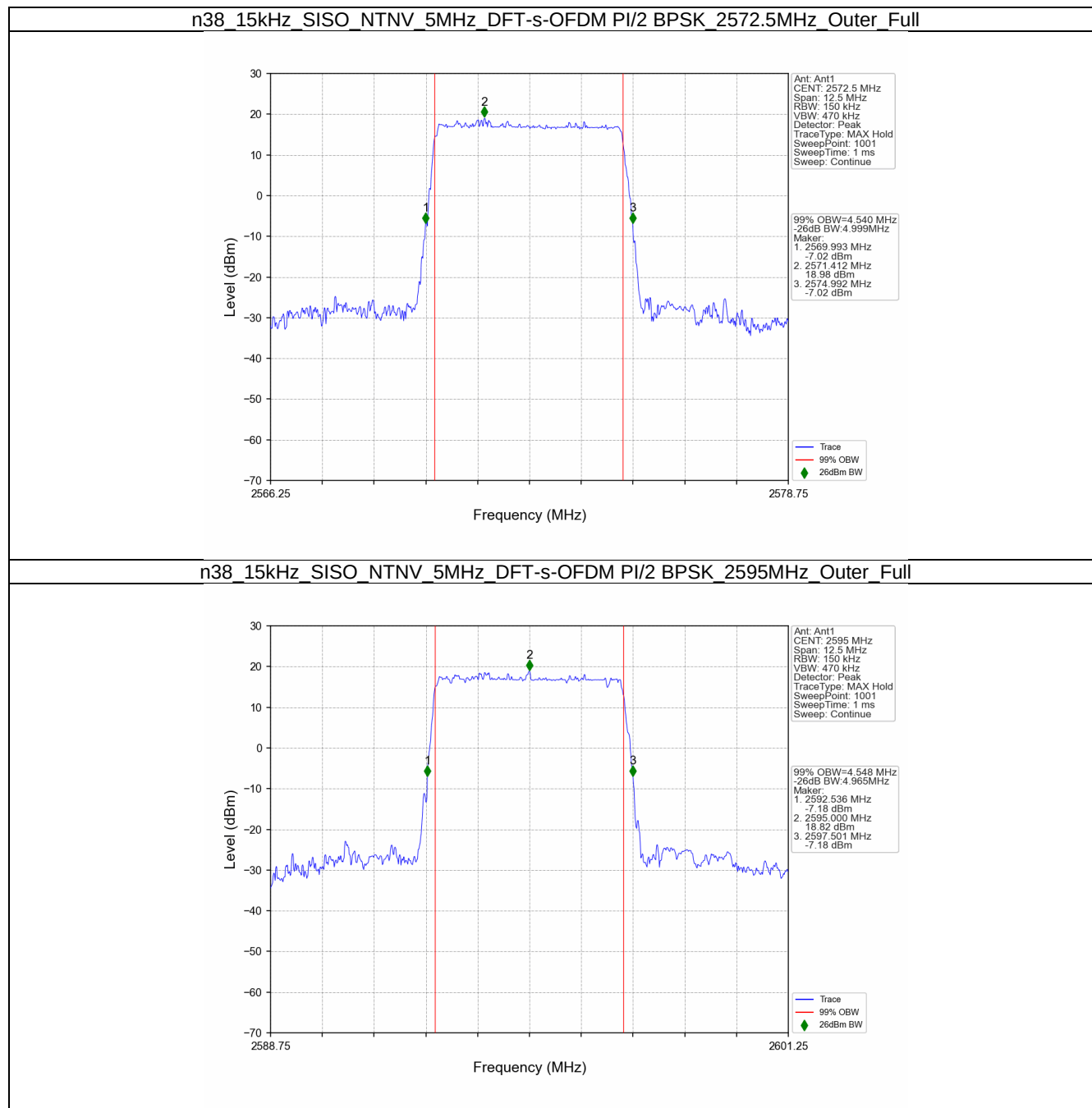
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4.1.2 Test Graph



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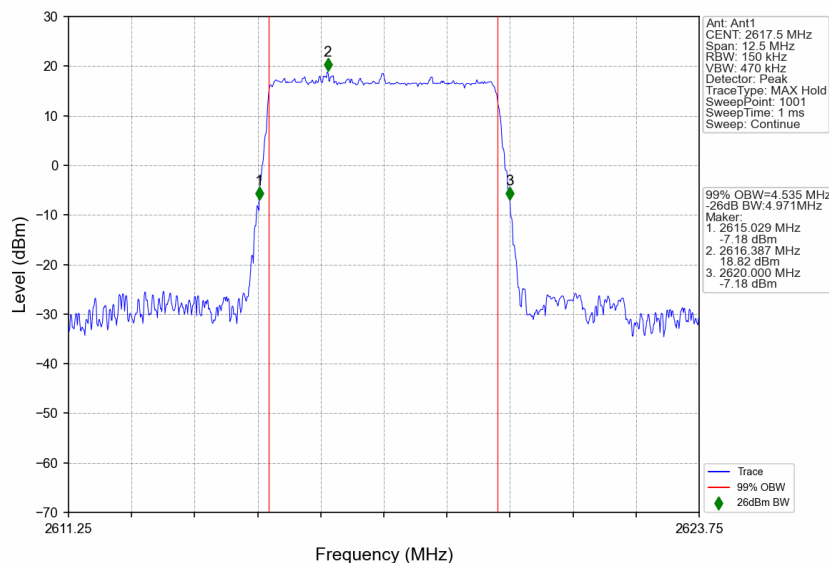
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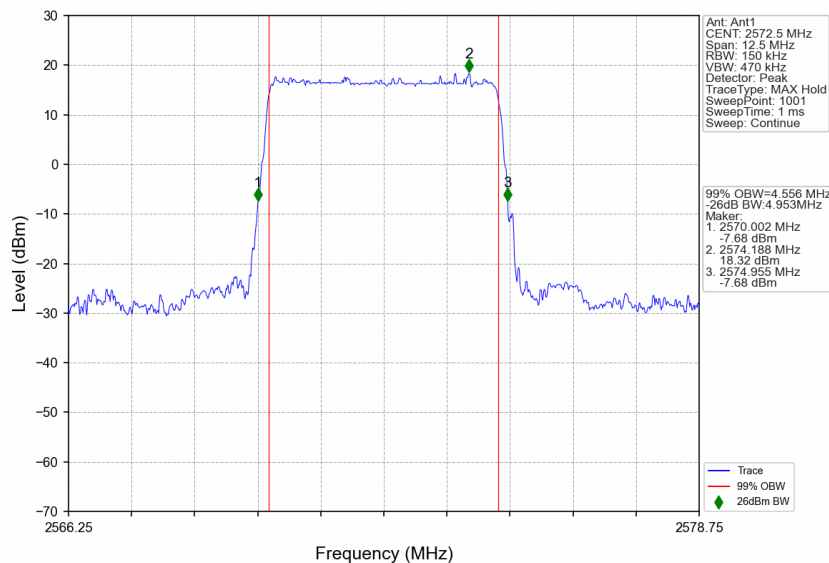
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2617.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2572.5MHz_Outer_Full



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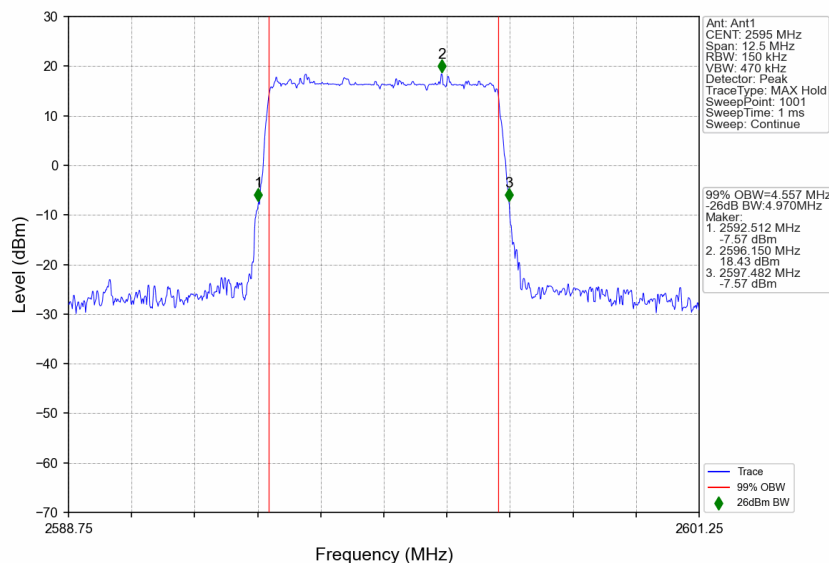
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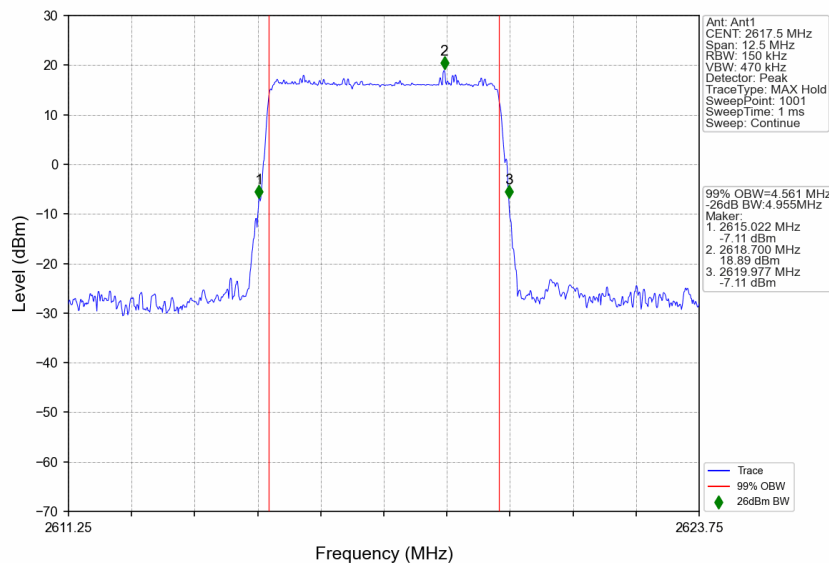
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2617.5MHz_Outer_Full



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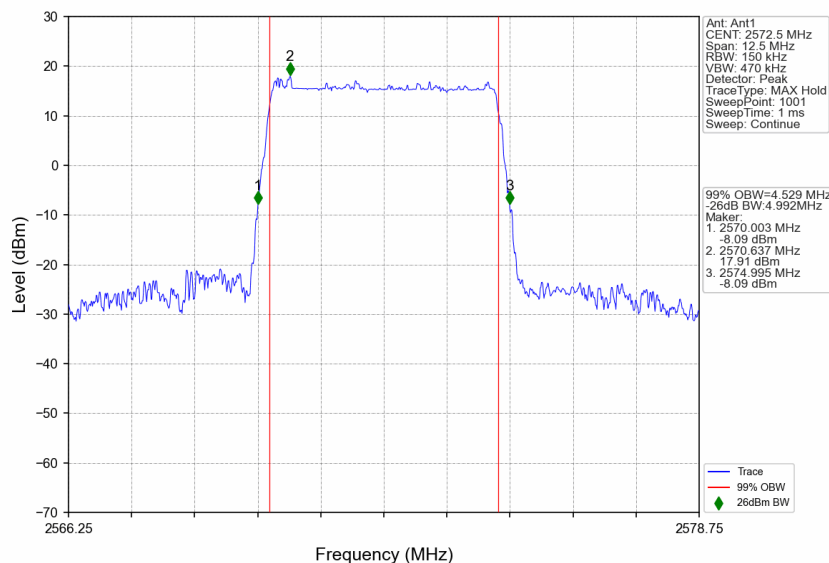
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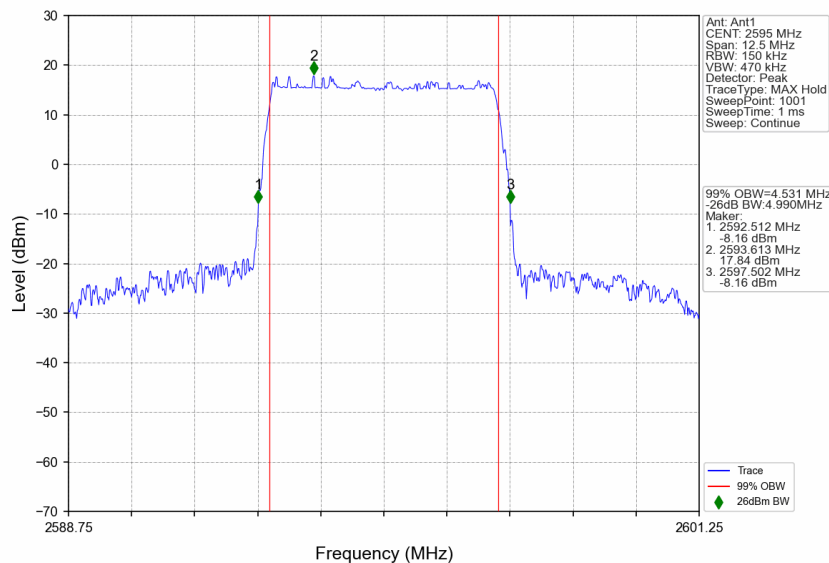
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_2572.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_2595MHz_Outer_Full



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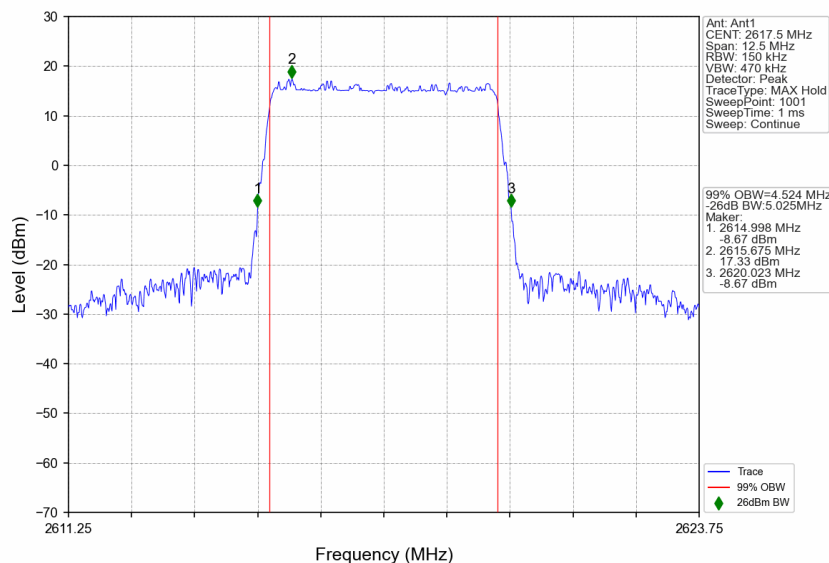
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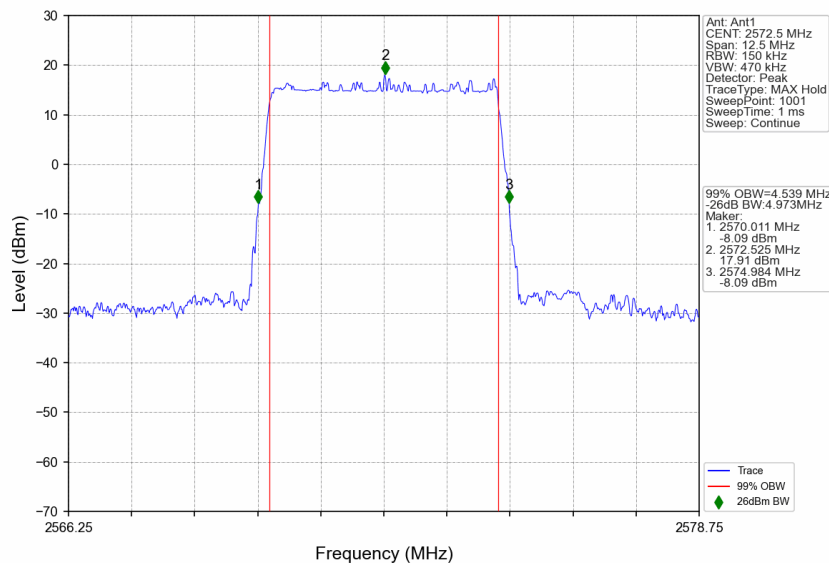
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_2617.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_2572.5MHz_Outer_Full



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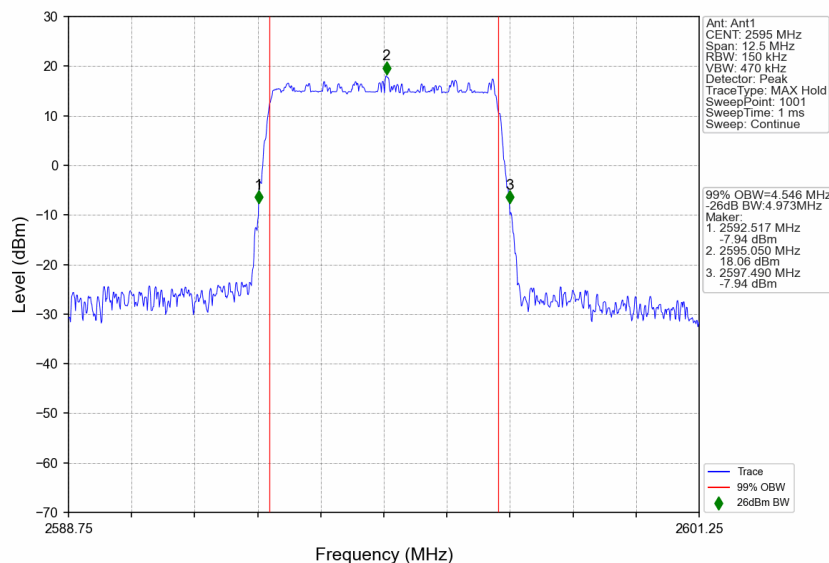
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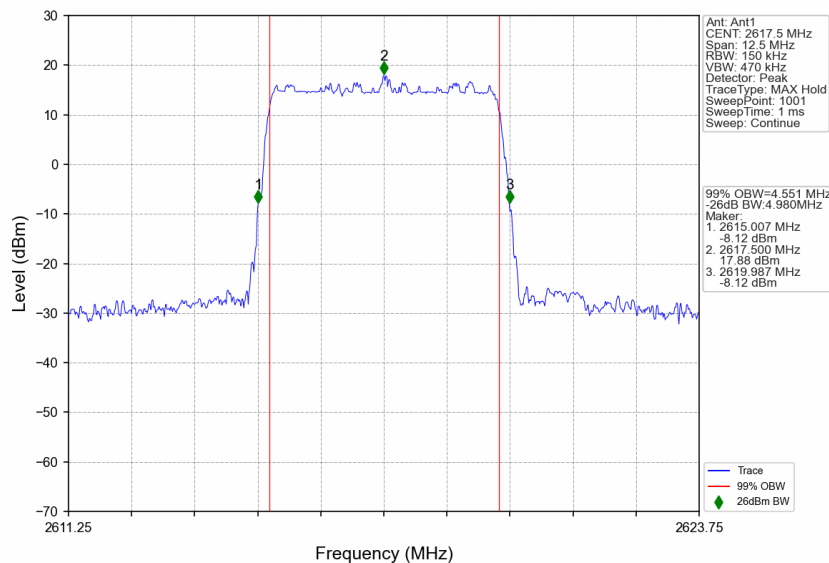
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_64_QAM_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_64_QAM_2617.5MHz_Outer_Full



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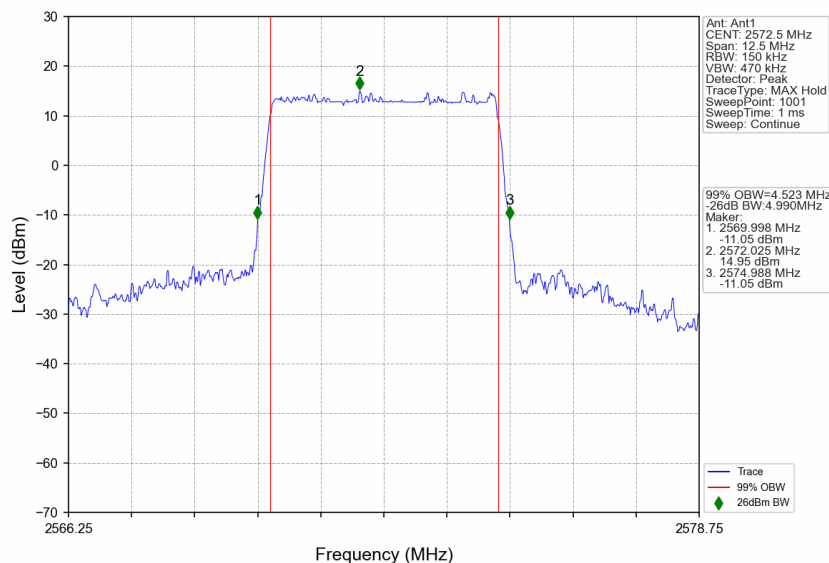
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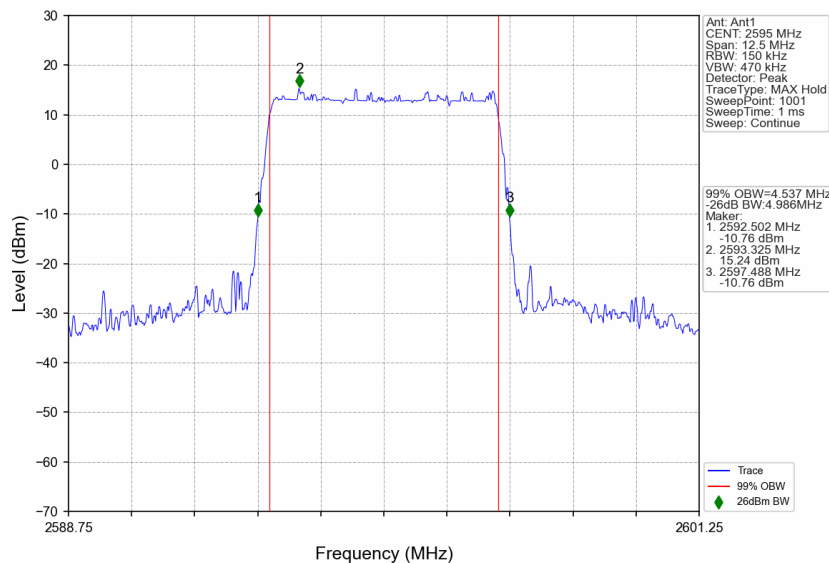
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_2572.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_2595MHz_Outer_Full



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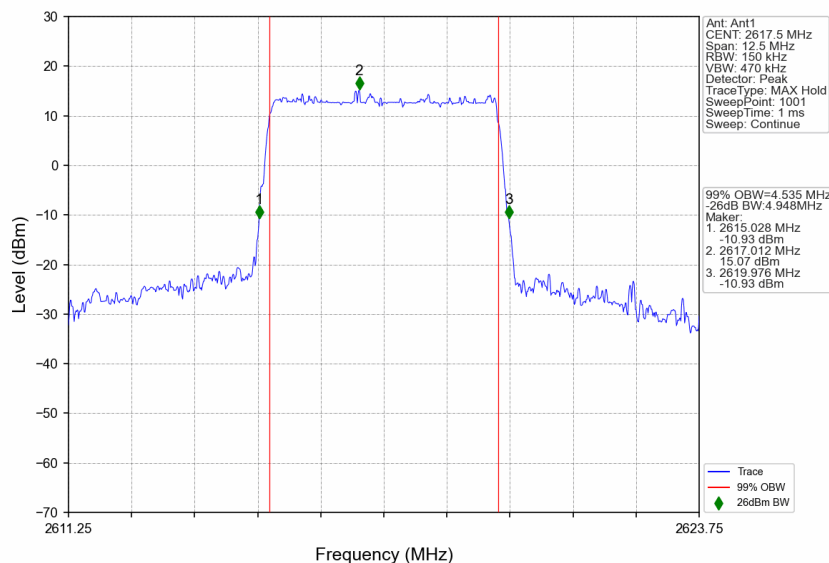
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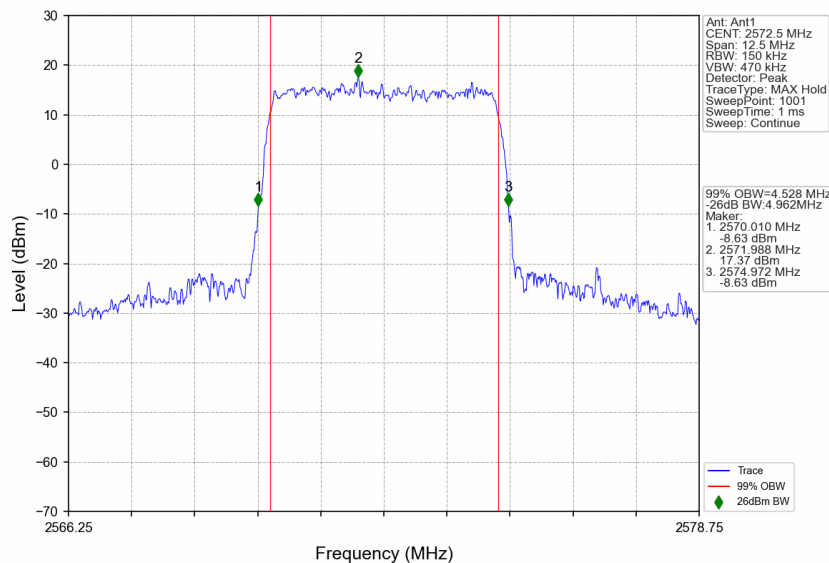
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_2617.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_2572.5MHz_Outer_Full



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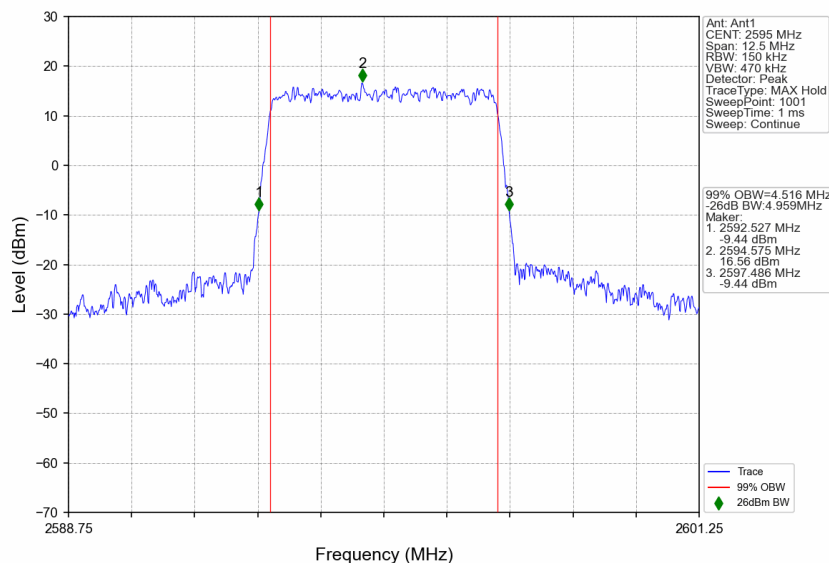
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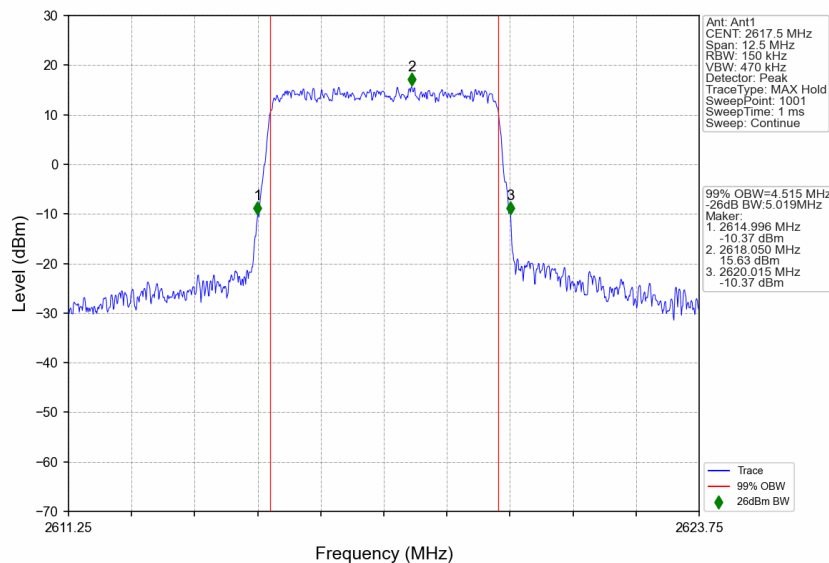
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_2595MHz_Outer_Full



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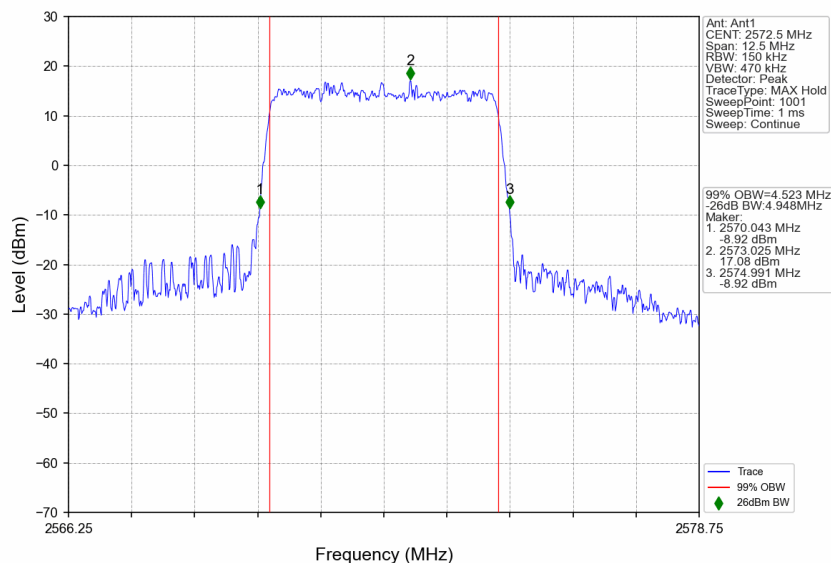
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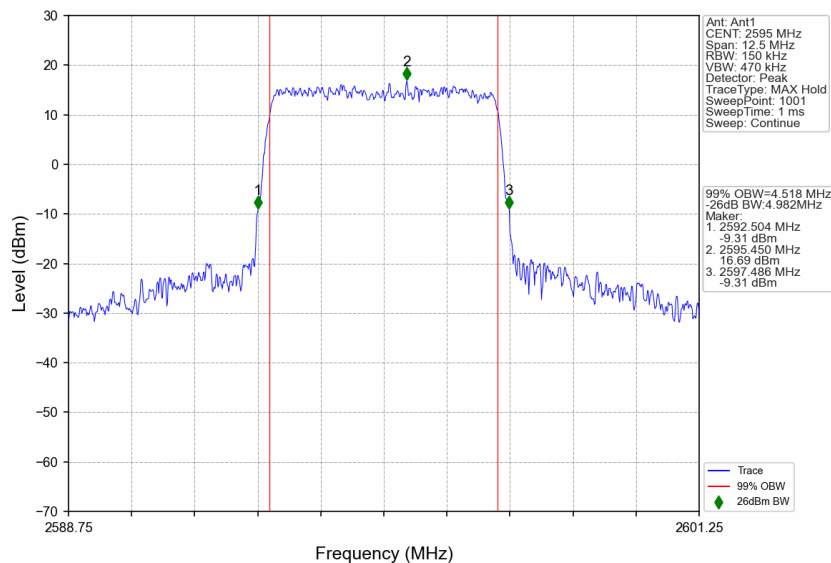
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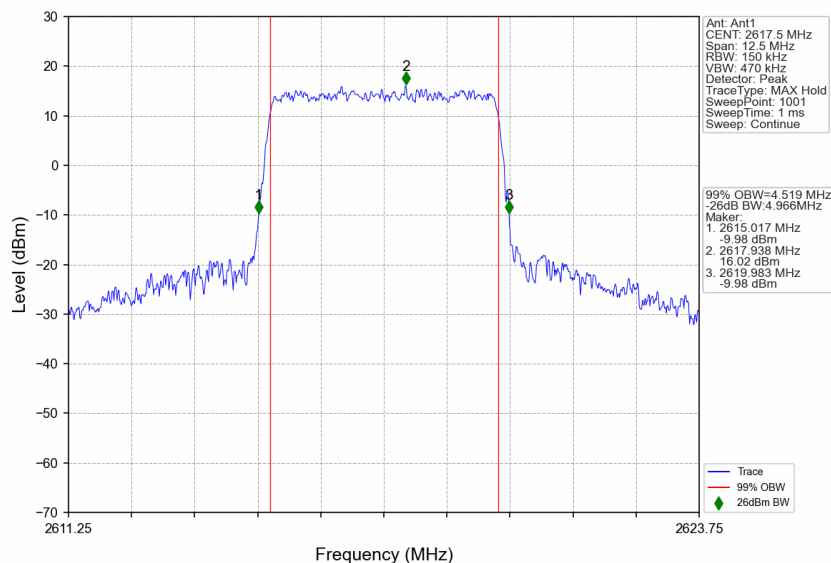
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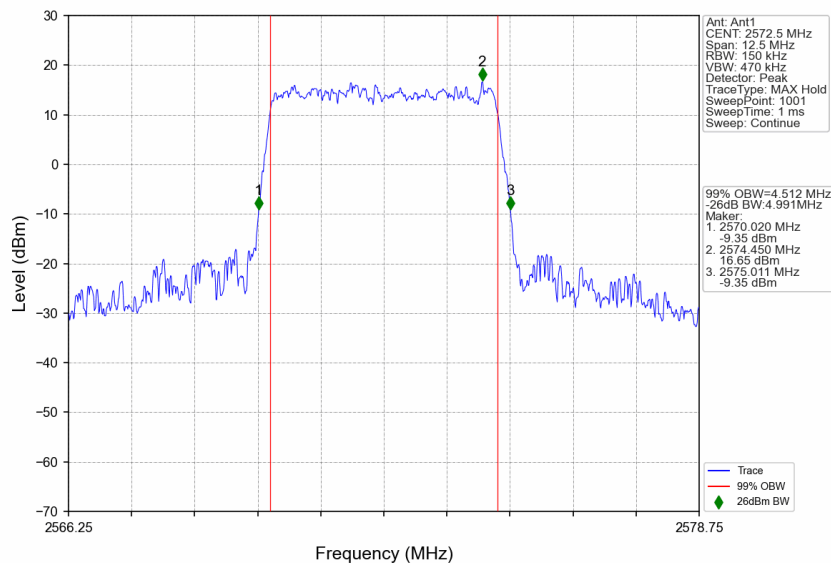
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_2617.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_2572.5MHz_Outer_Full



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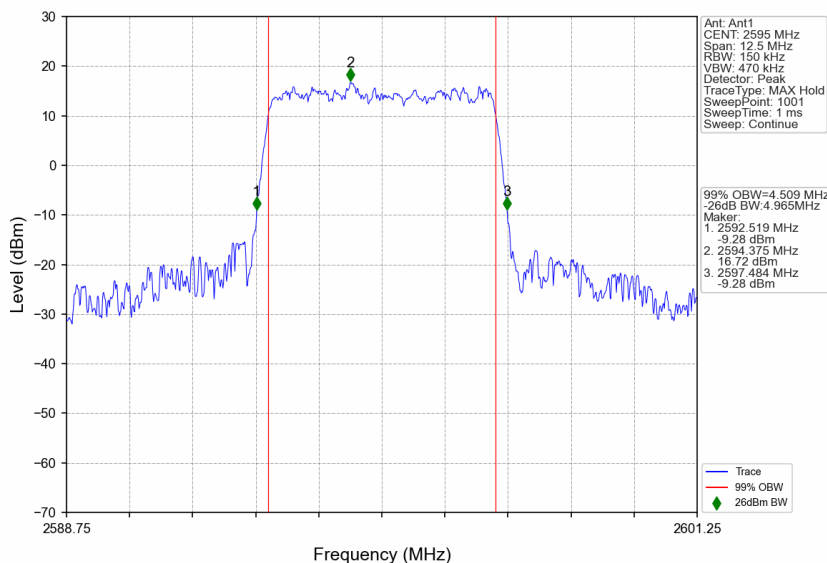
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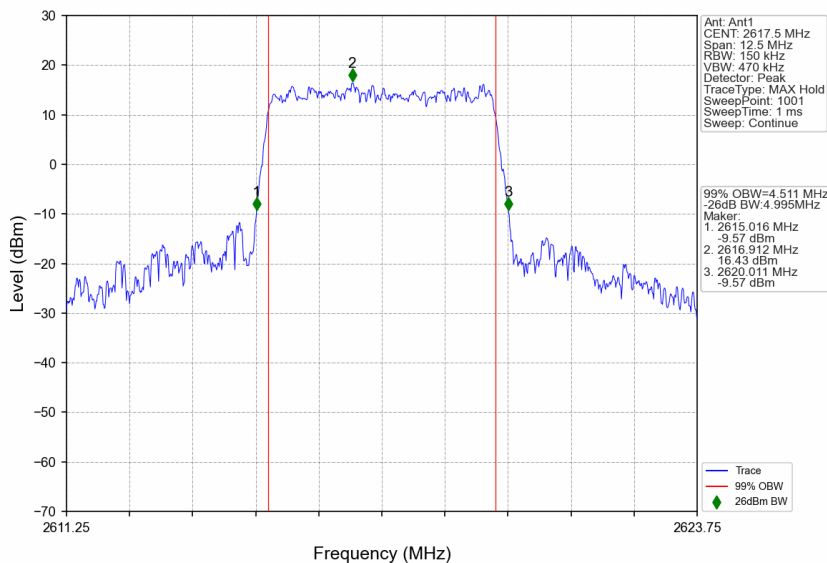
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM 2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM 2617.5MHz_Outer_Full



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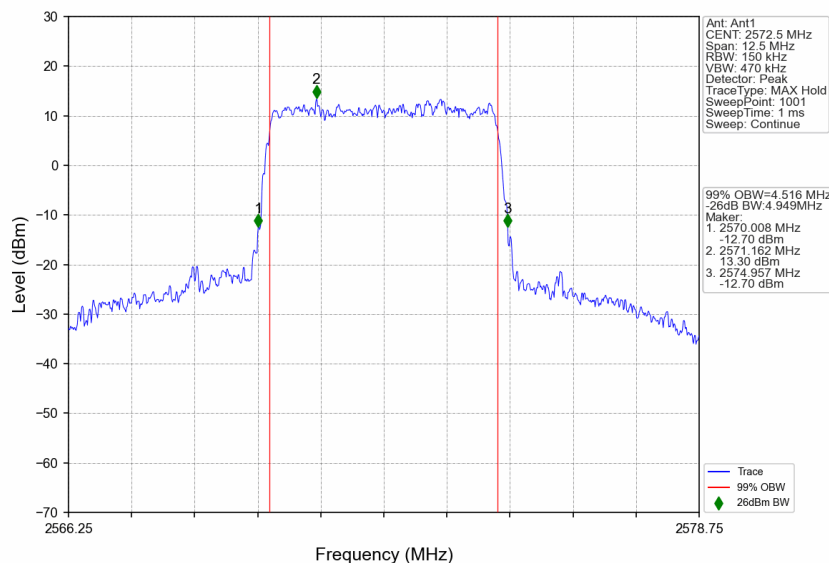
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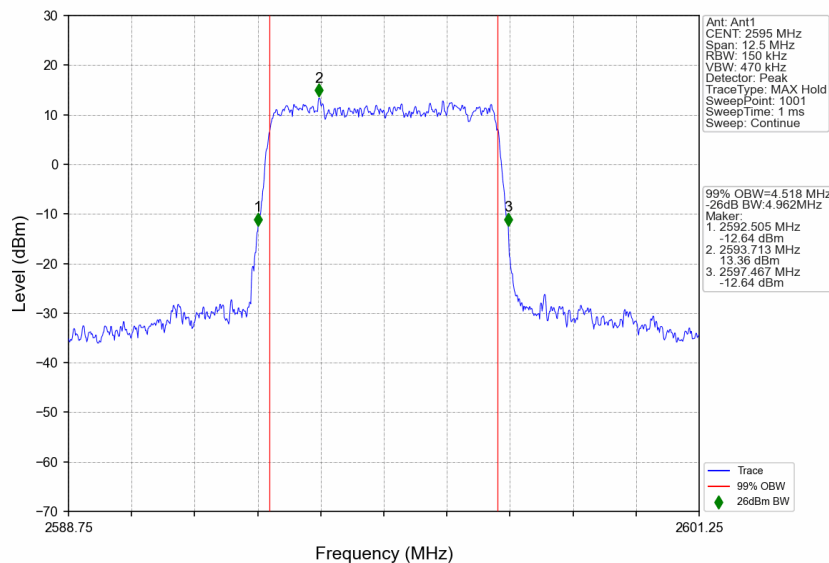
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM_256_QAM_2572.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_CP-OFDM_256_QAM_2595MHz_Outer_Full



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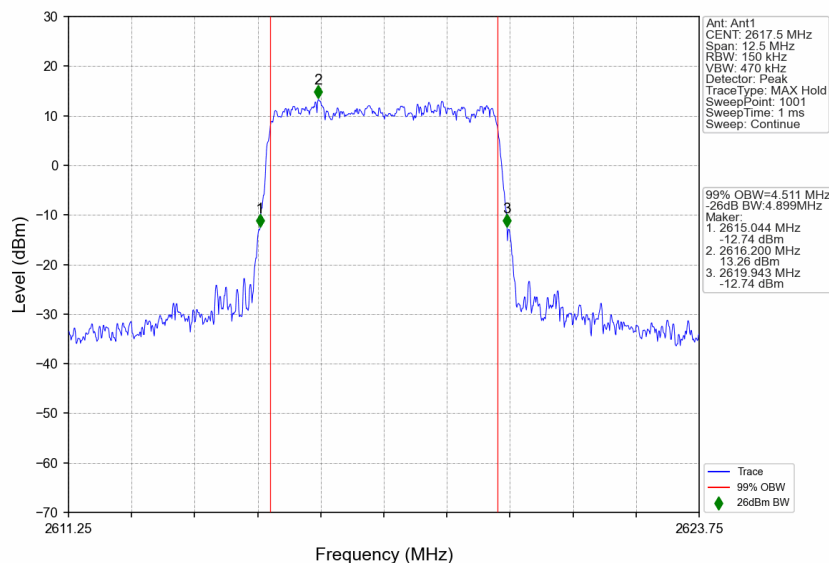
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM_256_QAM_2617.5MHz_Outer_Full



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4.2 15k_SISO_10MHz_NTNV

4.2.1 Test Result

5G NR n38 SCS=15kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2575	Outer Full	9.06	9.71	/	Pass
	2595	Outer Full	9.07	9.71	/	Pass
	2615	Outer Full	9.08	9.73	/	Pass
DFT-s-OFDM QPSK	2575	Outer Full	9.03	9.73	/	Pass
	2595	Outer Full	9.05	9.69	/	Pass
	2615	Outer Full	9.03	9.66	/	Pass
DFT-s-OFDM 16 QAM	2575	Outer Full	9.04	9.67	/	Pass
	2595	Outer Full	9.03	9.71	/	Pass
	2615	Outer Full	9.04	9.71	/	Pass
DFT-s-OFDM 64 QAM	2575	Outer Full	9.07	9.69	/	Pass
	2595	Outer Full	9.05	9.71	/	Pass
	2615	Outer Full	9.04	9.71	/	Pass
DFT-s-OFDM 256 QAM	2575	Outer Full	9.02	9.66	/	Pass
	2595	Outer Full	9.03	9.70	/	Pass
	2615	Outer Full	9.03	9.68	/	Pass
CP-OFDM QPSK	2575	Outer Full	9.37	10.05	/	Pass
	2595	Outer Full	9.35	10.03	/	Pass
	2615	Outer Full	9.38	10.02	/	Pass
CP-OFDM 16 QAM	2575	Outer Full	9.35	10.04	/	Pass
	2595	Outer Full	9.38	10.06	/	Pass
	2615	Outer Full	9.37	10.09	/	Pass
CP-OFDM 64 QAM	2575	Outer Full	9.38	10.04	/	Pass
	2595	Outer Full	9.40	10.04	/	Pass
	2615	Outer Full	9.38	10.03	/	Pass
CP-OFDM 256 QAM	2575	Outer Full	9.35	10.02	/	Pass
	2595	Outer Full	9.35	10.04	/	Pass
	2615	Outer Full	9.38	10.06	/	Pass



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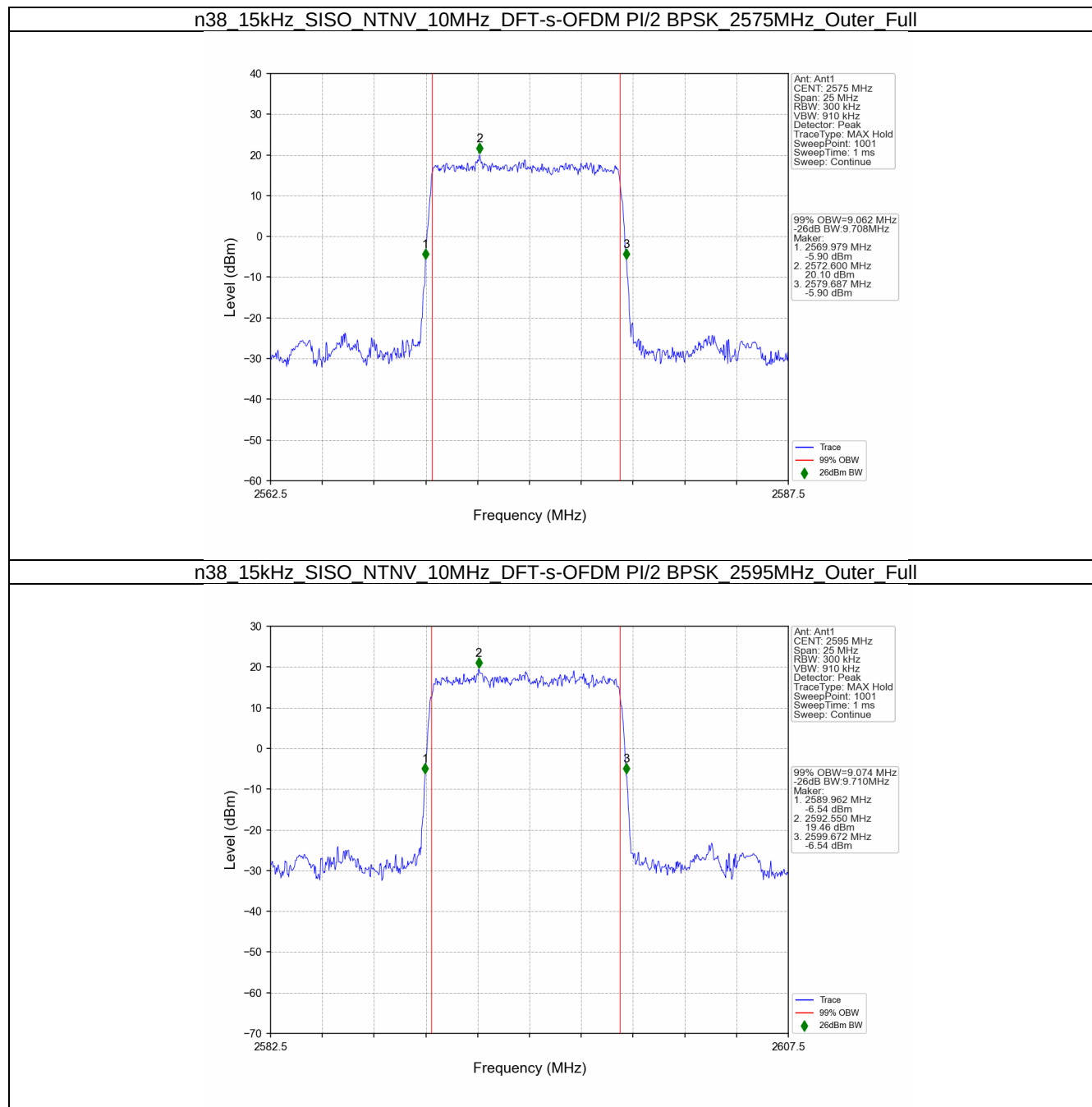
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4.2.2 Test Graph



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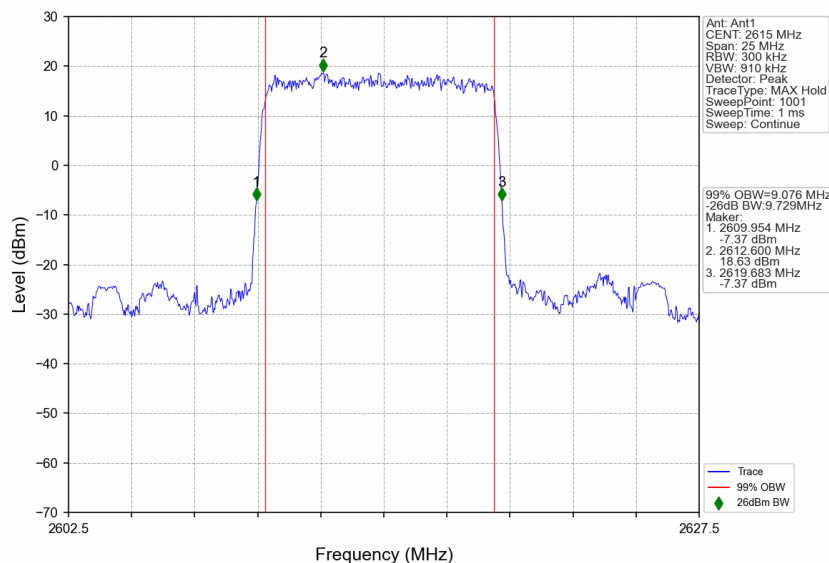
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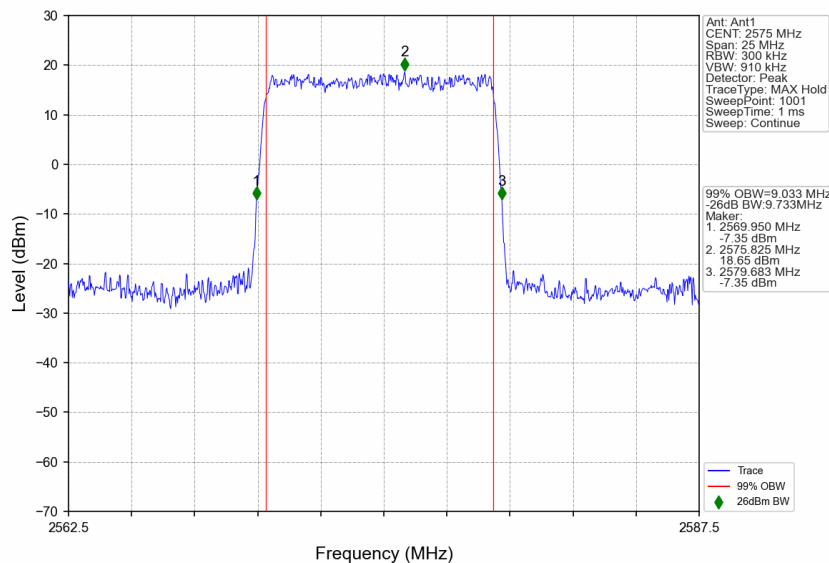
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n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2615MHz_Outer_Full



n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2575MHz_Outer_Full



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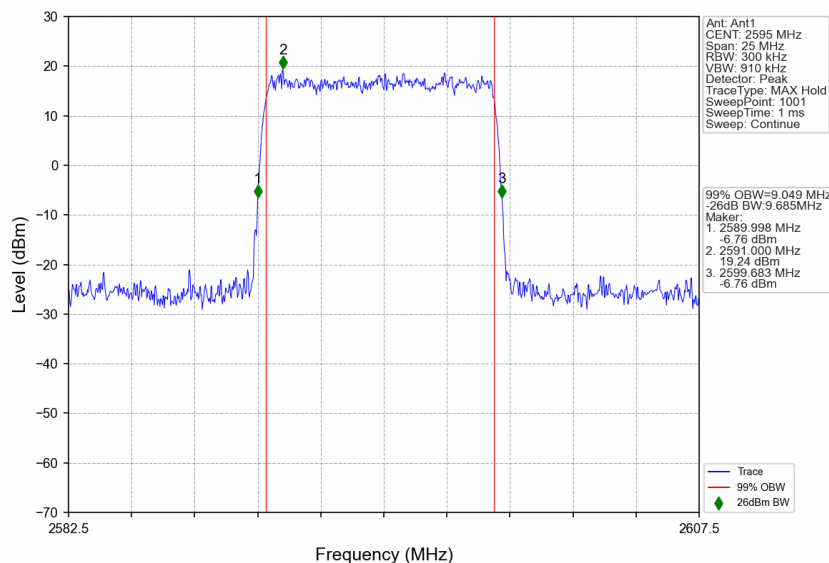
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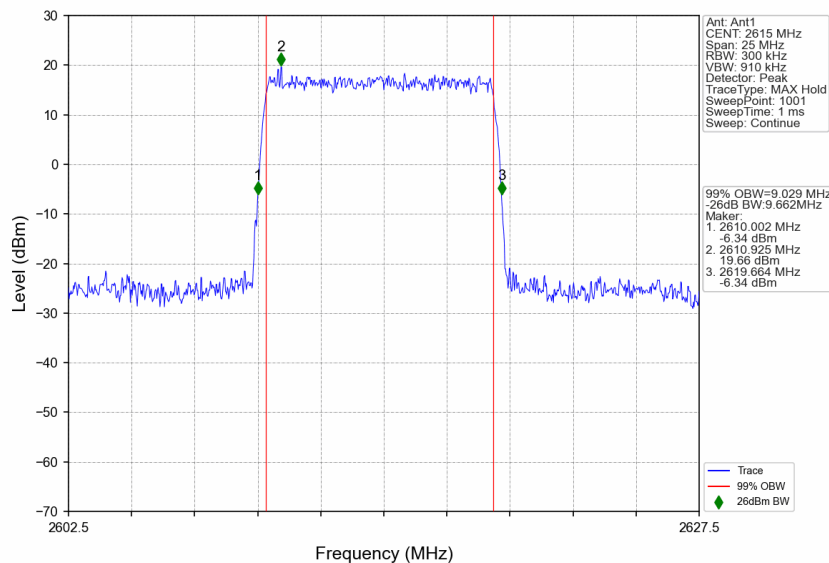
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n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2615MHz_Outer_Full



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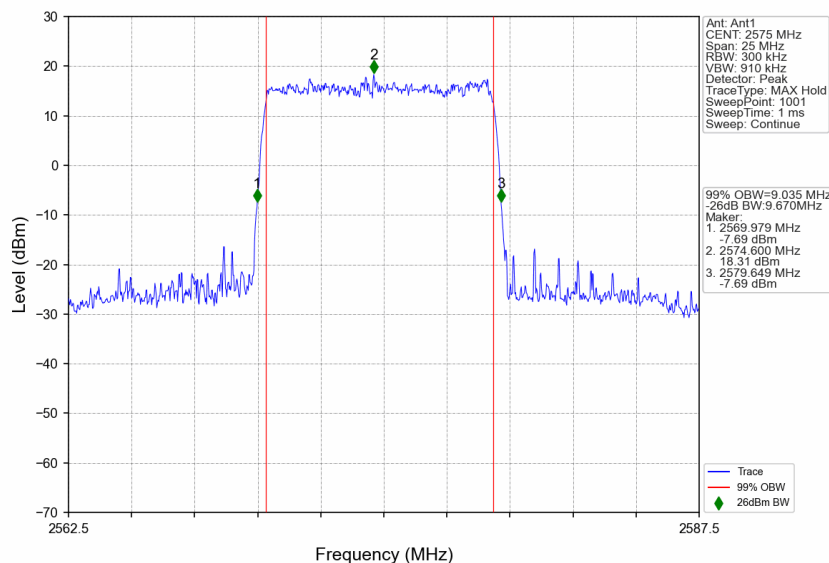
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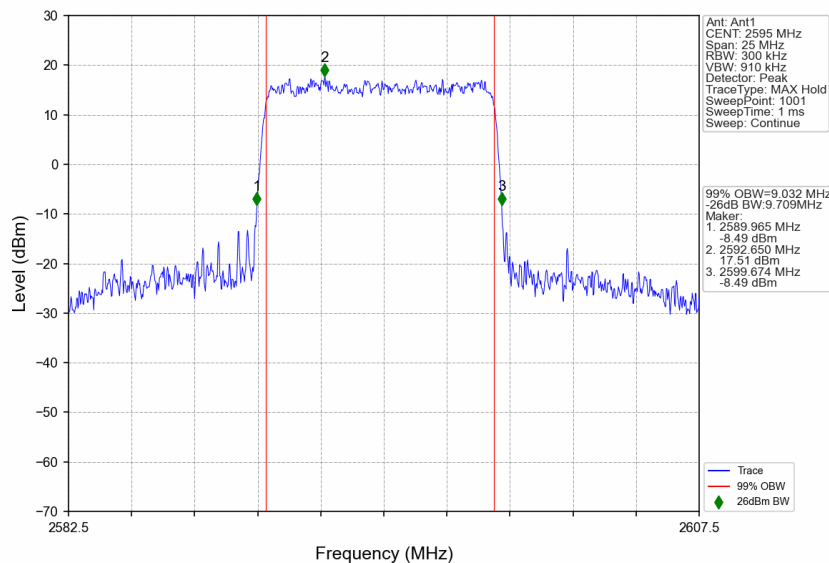
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n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2575MHz_Outer_Full



n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2595MHz_Outer_Full



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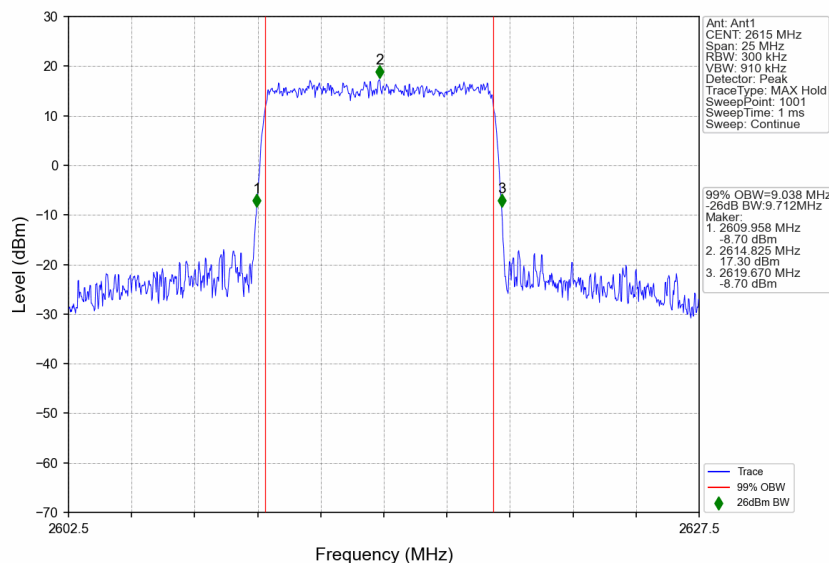
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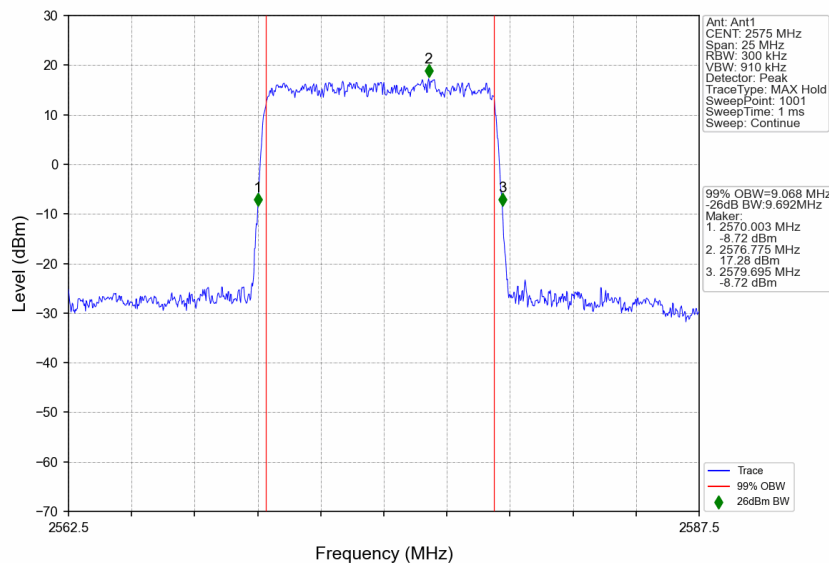
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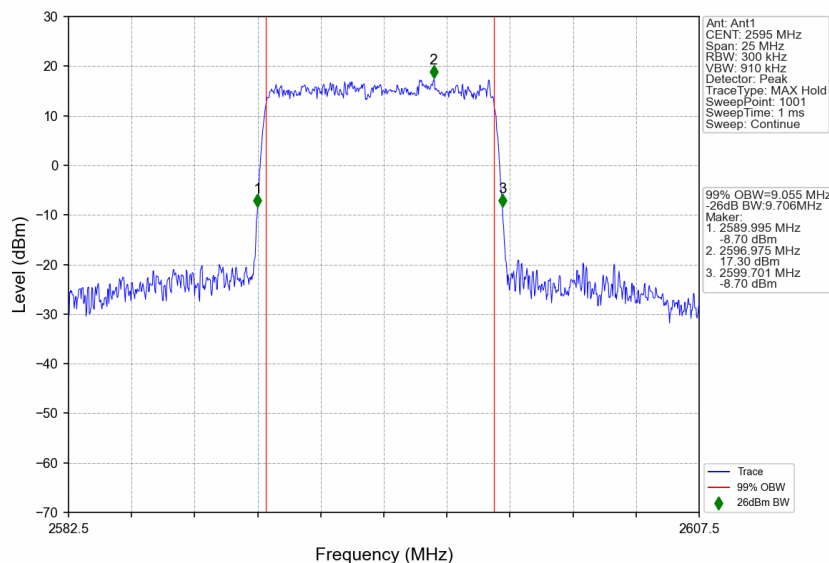
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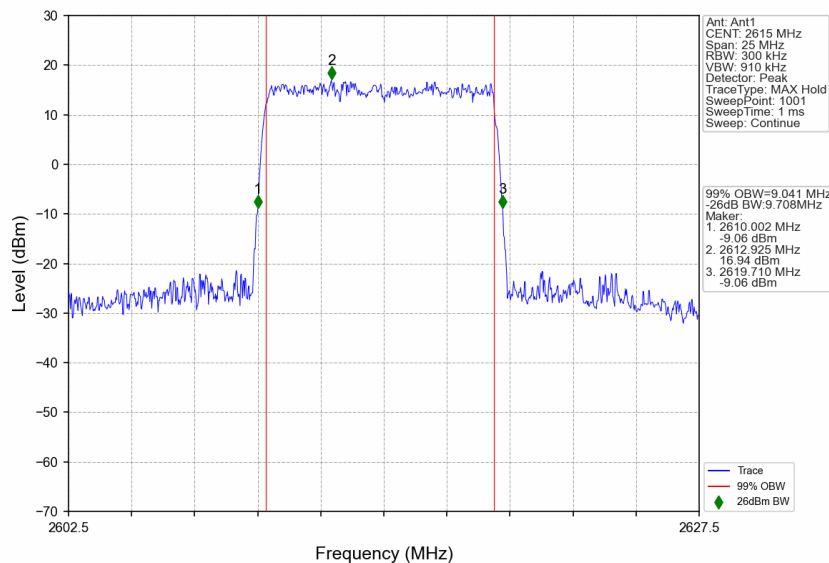
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t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

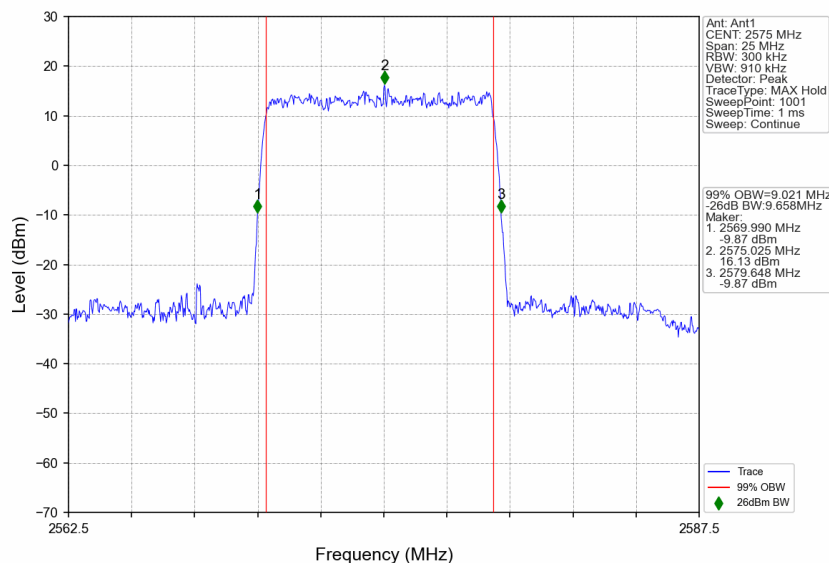
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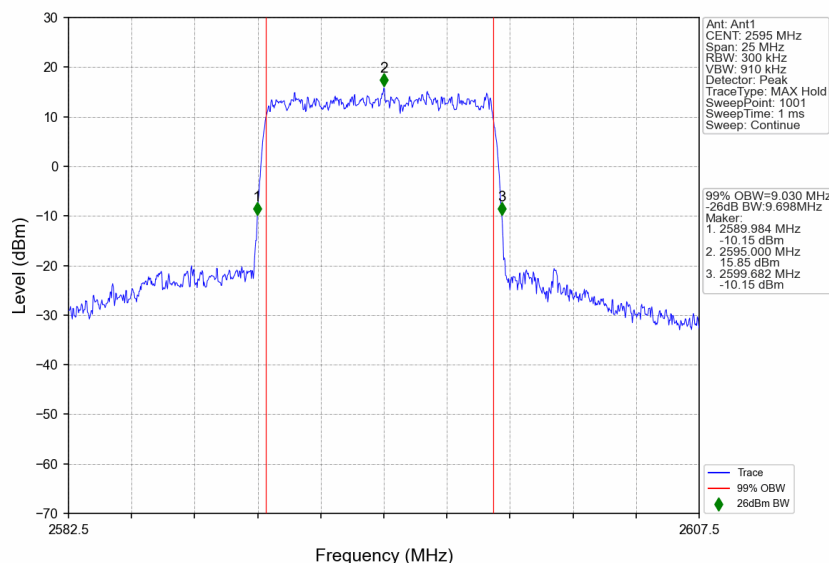
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n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_2575MHz_Outer_Full



n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_2595MHz_Outer_Full



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