

CP-OFDM 16 QAM	3600	Edge_1RB_Left	17.84	/	/	15.84	/	/	<=23	Pass
		Edge_1RB_Right	17.98	/	/	15.98	/	/	<=23	Pass
		Outer_Full	18.35	/	/	16.35	/	/	<=23	Pass
		Inner_Full	19.47	/	/	17.47	/	/	<=23	Pass
		Inner_1RB_Left	19.08	/	/	17.08	/	/	<=23	Pass
		Inner_1RB_Right	19.05	/	/	17.05	/	/	<=23	Pass
	3624.99	Edge_1RB_Left	18.19	/	/	16.19	/	/	<=23	Pass
		Edge_1RB_Right	18.59	/	/	16.59	/	/	<=23	Pass
		Outer_Full	18.41	/	/	16.41	/	/	<=23	Pass
		Inner_Full	19.48	/	/	17.48	/	/	<=23	Pass
		Inner_1RB_Left	19.24	/	/	17.24	/	/	<=23	Pass
		Inner_1RB_Right	19.84	/	/	17.84	/	/	<=23	Pass
	3649.98	Edge_1RB_Left	18.18	/	/	16.18	/	/	<=23	Pass
		Edge_1RB_Right	18.52	/	/	16.52	/	/	<=23	Pass
		Outer_Full	18.42	/	/	16.42	/	/	<=23	Pass
		Inner_Full	19.38	/	/	17.38	/	/	<=23	Pass
		Inner_1RB_Left	19.28	/	/	17.28	/	/	<=23	Pass
		Inner_1RB_Right	19.60	/	/	17.60	/	/	<=23	Pass
CP-OFDM 64 QAM	3600	Edge_1RB_Left	17.63	/	/	15.63	/	/	<=23	Pass
		Edge_1RB_Right	17.83	/	/	15.83	/	/	<=23	Pass
		Outer_Full	17.86	/	/	15.86	/	/	<=23	Pass
		Inner_Full	17.97	/	/	15.97	/	/	<=23	Pass
		Inner_1RB_Left	17.67	/	/	15.67	/	/	<=23	Pass
		Inner_1RB_Right	17.76	/	/	15.76	/	/	<=23	Pass
	3624.99	Edge_1RB_Left	17.85	/	/	15.85	/	/	<=23	Pass
		Edge_1RB_Right	18.22	/	/	16.22	/	/	<=23	Pass
		Outer_Full	17.96	/	/	15.96	/	/	<=23	Pass
		Inner_Full	18.00	/	/	16.00	/	/	<=23	Pass
		Inner_1RB_Left	17.88	/	/	15.88	/	/	<=23	Pass
		Inner_1RB_Right	18.22	/	/	16.22	/	/	<=23	Pass
	3649.98	Edge_1RB_Left	17.83	/	/	15.83	/	/	<=23	Pass
		Edge_1RB_Right	18.29	/	/	16.29	/	/	<=23	Pass
		Outer_Full	17.95	/	/	15.95	/	/	<=23	Pass
		Inner_Full	17.93	/	/	15.93	/	/	<=23	Pass
		Inner_1RB_Left	17.83	/	/	15.83	/	/	<=23	Pass
		Inner_1RB_Right	18.22	/	/	16.22	/	/	<=23	Pass
CP-OFDM 256 QAM	3600	Edge_1RB_Left	14.70	/	/	12.70	/	/	<=23	Pass
		Edge_1RB_Right	14.63	/	/	12.63	/	/	<=23	Pass
		Outer_Full	14.82	/	/	12.82	/	/	<=23	Pass
		Inner_Full	14.93	/	/	12.93	/	/	<=23	Pass
		Inner_1RB_Left	14.61	/	/	12.61	/	/	<=23	Pass
		Inner_1RB_Right	14.68	/	/	12.68	/	/	<=23	Pass
	3624.99	Edge_1RB_Left	14.71	/	/	12.71	/	/	<=23	Pass
		Edge_1RB_Right	15.22	/	/	13.22	/	/	<=23	Pass
		Outer_Full	14.94	/	/	12.94	/	/	<=23	Pass
		Inner_Full	14.86	/	/	12.86	/	/	<=23	Pass
		Inner_1RB_Left	14.78	/	/	12.78	/	/	<=23	Pass
		Inner_1RB_Right	15.16	/	/	13.16	/	/	<=23	Pass
	3649.98	Edge_1RB_Left	14.73	/	/	12.73	/	/	<=23	Pass
		Edge_1RB_Right	15.16	/	/	13.16	/	/	<=23	Pass
		Outer_Full	14.96	/	/	12.96	/	/	<=23	Pass
Inner_Full		14.96	/	/	12.96	/	/	<=23	Pass	
Inner_1RB_Left		14.85	/	/	12.85	/	/	<=23	Pass	
Inner_1RB_Right	15.17	/	/	13.17	/	/	<=23	Pass		
Note1: Antenna Gain: Ant1: -2.00dBi; Note2: EIRP=Conducted Power+Antenna Gain										

1.18 30k_SISO_100MHz_NTNV_EIRP(dBm/10MHz)

1.18.1 Test Result

5G NR n78d SCS=30kHz SISO 100MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3600	Edge_1RB_Left	18.94	/	/	16.94	/	/	<=23	Pass
		Edge_1RB_Right	20.03	/	/	18.03	/	/	<=23	Pass
		Outer_Full	10.84	/	/	8.84	/	/	<=23	Pass
		Inner_Full	14.05	/	/	12.05	/	/	<=23	Pass
		Inner_1RB_Left	20.55	/	/	18.55	/	/	<=23	Pass
		Inner_1RB_Right	20.60	/	/	18.60	/	/	<=23	Pass
	3624.99	Edge_1RB_Left	21.01	/	/	19.01	/	/	<=23	Pass
		Edge_1RB_Right	20.11	/	/	18.11	/	/	<=23	Pass
		Outer_Full	11.49	/	/	9.49	/	/	<=23	Pass
		Inner_Full	13.25	/	/	11.25	/	/	<=23	Pass
		Inner_1RB_Left	20.64	/	/	18.64	/	/	<=23	Pass
		Inner_1RB_Right	21.80	/	/	19.80	/	/	<=23	Pass
	3649.98	Edge_1RB_Left	21.21	/	/	19.21	/	/	<=23	Pass
		Edge_1RB_Right	20.27	/	/	18.27	/	/	<=23	Pass
		Outer_Full	10.71	/	/	8.71	/	/	<=23	Pass
		Inner_Full	14.36	/	/	12.36	/	/	<=23	Pass
		Inner_1RB_Left	19.74	/	/	17.74	/	/	<=23	Pass
		Inner_1RB_Right	23.38	/	/	21.38	/	/	<=23	Pass
DFT-s-OFDM QPSK	3600	Edge_1RB_Left	19.66	/	/	17.66	/	/	<=23	Pass
		Edge_1RB_Right	20.09	/	/	18.09	/	/	<=23	Pass
		Outer_Full	11.28	/	/	9.28	/	/	<=23	Pass
		Inner_Full	13.99	/	/	11.99	/	/	<=23	Pass
		Inner_1RB_Left	21.59	/	/	19.59	/	/	<=23	Pass
		Inner_1RB_Right	20.29	/	/	18.29	/	/	<=23	Pass
	3624.99	Edge_1RB_Left	20.40	/	/	18.40	/	/	<=23	Pass
		Edge_1RB_Right	21.39	/	/	19.39	/	/	<=23	Pass
		Outer_Full	10.24	/	/	8.24	/	/	<=23	Pass
		Inner_Full	14.01	/	/	12.01	/	/	<=23	Pass
		Inner_1RB_Left	20.88	/	/	18.88	/	/	<=23	Pass
		Inner_1RB_Right	21.92	/	/	19.92	/	/	<=23	Pass
	3649.98	Edge_1RB_Left	20.73	/	/	18.73	/	/	<=23	Pass
		Edge_1RB_Right	18.80	/	/	16.80	/	/	<=23	Pass
		Outer_Full	10.49	/	/	8.49	/	/	<=23	Pass
		Inner_Full	14.16	/	/	12.16	/	/	<=23	Pass
		Inner_1RB_Left	20.45	/	/	18.45	/	/	<=23	Pass
		Inner_1RB_Right	21.08	/	/	19.08	/	/	<=23	Pass
DFT-s-OFDM 16 QAM	3600	Edge_1RB_Left	18.53	/	/	16.53	/	/	<=23	Pass
		Edge_1RB_Right	17.03	/	/	15.03	/	/	<=23	Pass
		Outer_Full	9.30	/	/	7.30	/	/	<=23	Pass
		Inner_Full	13.16	/	/	11.16	/	/	<=23	Pass
		Inner_1RB_Left	18.99	/	/	16.99	/	/	<=23	Pass
		Inner_1RB_Right	19.49	/	/	17.49	/	/	<=23	Pass
	3624.99	Edge_1RB_Left	17.78	/	/	15.78	/	/	<=23	Pass
		Edge_1RB_Right	19.65	/	/	17.65	/	/	<=23	Pass
		Outer_Full	9.72	/	/	7.72	/	/	<=23	Pass
		Inner_Full	13.72	/	/	11.72	/	/	<=23	Pass
		Inner_1RB_Left	18.67	/	/	16.67	/	/	<=23	Pass
		Inner_1RB_Right	19.52	/	/	17.52	/	/	<=23	Pass
	3649.98	Edge_1RB_Left	18.97	/	/	16.97	/	/	<=23	Pass
		Edge_1RB_Right	18.52	/	/	16.52	/	/	<=23	Pass
		Outer_Full	8.68	/	/	6.68	/	/	<=23	Pass

		Inner Full	13.50	/	/	11.50	/	/	<=23	Pass
		Inner 1RB Left	20.20	/	/	18.20	/	/	<=23	Pass
		Inner 1RB Right	22.14	/	/	20.14	/	/	<=23	Pass
DFT-s-OFDM 64 QAM	3600	Edge 1RB Left	19.06	/	/	17.06	/	/	<=23	Pass
		Edge 1RB Right	17.54	/	/	15.54	/	/	<=23	Pass
		Outer Full	8.53	/	/	6.53	/	/	<=23	Pass
		Inner Full	12.26	/	/	10.26	/	/	<=23	Pass
		Inner 1RB Left	18.36	/	/	16.36	/	/	<=23	Pass
		Inner 1RB Right	18.45	/	/	16.45	/	/	<=23	Pass
		Edge 1RB Left	17.42	/	/	15.42	/	/	<=23	Pass
		Edge 1RB Right	17.90	/	/	15.90	/	/	<=23	Pass
	3624.99	Outer Full	9.74	/	/	7.74	/	/	<=23	Pass
		Inner Full	11.70	/	/	9.70	/	/	<=23	Pass
		Inner 1RB Left	18.49	/	/	16.49	/	/	<=23	Pass
		Inner 1RB Right	19.33	/	/	17.33	/	/	<=23	Pass
		Edge 1RB Left	19.64	/	/	17.64	/	/	<=23	Pass
	3649.98	Edge 1RB Right	18.59	/	/	16.59	/	/	<=23	Pass
		Outer Full	8.19	/	/	6.19	/	/	<=23	Pass
		Inner Full	11.82	/	/	9.82	/	/	<=23	Pass
		Inner 1RB Left	18.75	/	/	16.75	/	/	<=23	Pass
		Inner 1RB Right	19.08	/	/	17.08	/	/	<=23	Pass
		Edge 1RB Left	16.34	/	/	14.34	/	/	<=23	Pass
DFT-s-OFDM 256 QAM	3600	Edge 1RB Right	16.83	/	/	14.83	/	/	<=23	Pass
		Outer Full	6.86	/	/	4.86	/	/	<=23	Pass
		Inner Full	9.26	/	/	7.26	/	/	<=23	Pass
		Inner 1RB Left	16.79	/	/	14.79	/	/	<=23	Pass
		Inner 1RB Right	15.69	/	/	13.69	/	/	<=23	Pass
		Edge 1RB Left	15.80	/	/	13.80	/	/	<=23	Pass
	3624.99	Edge 1RB Right	17.50	/	/	15.50	/	/	<=23	Pass
		Outer Full	7.01	/	/	5.01	/	/	<=23	Pass
		Inner Full	9.74	/	/	7.74	/	/	<=23	Pass
		Inner 1RB Left	16.22	/	/	14.22	/	/	<=23	Pass
		Inner 1RB Right	17.02	/	/	15.02	/	/	<=23	Pass
	3649.98	Edge 1RB Left	16.09	/	/	14.09	/	/	<=23	Pass
		Edge 1RB Right	17.13	/	/	15.13	/	/	<=23	Pass
		Outer Full	7.39	/	/	5.39	/	/	<=23	Pass
		Inner Full	9.62	/	/	7.62	/	/	<=23	Pass
		Inner 1RB Left	16.16	/	/	14.16	/	/	<=23	Pass
		Inner 1RB Right	17.53	/	/	15.53	/	/	<=23	Pass
CP-OFDM QPSK	3600	Edge 1RB Left	17.71	/	/	15.71	/	/	<=23	Pass
		Edge 1RB Right	18.58	/	/	16.58	/	/	<=23	Pass
		Outer Full	8.19	/	/	6.19	/	/	<=23	Pass
		Inner Full	12.71	/	/	10.71	/	/	<=23	Pass
		Inner 1RB Left	18.71	/	/	16.71	/	/	<=23	Pass
		Inner 1RB Right	17.96	/	/	15.96	/	/	<=23	Pass
	3624.99	Edge 1RB Left	16.93	/	/	14.93	/	/	<=23	Pass
		Edge 1RB Right	17.78	/	/	15.78	/	/	<=23	Pass
		Outer Full	7.15	/	/	5.15	/	/	<=23	Pass
		Inner Full	12.54	/	/	10.54	/	/	<=23	Pass
		Inner 1RB Left	19.08	/	/	17.08	/	/	<=23	Pass
	3649.98	Inner 1RB Right	20.30	/	/	18.30	/	/	<=23	Pass
		Edge 1RB Left	19.29	/	/	17.29	/	/	<=23	Pass
		Edge 1RB Right	19.92	/	/	17.92	/	/	<=23	Pass
		Outer Full	8.24	/	/	6.24	/	/	<=23	Pass
		Inner Full	13.48	/	/	11.48	/	/	<=23	Pass
		Inner 1RB Left	19.11	/	/	17.11	/	/	<=23	Pass
CP-OFDM 16 QAM	3600	Inner 1RB Right	19.37	/	/	17.37	/	/	<=23	Pass
		Edge 1RB Left	16.62	/	/	14.62	/	/	<=23	Pass
		Edge 1RB Right	17.83	/	/	15.83	/	/	<=23	Pass

Note1: Antenna Gain: Ant1: -2.00dBi;
Note2: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 30k_SISO_20MHz

2.1.1 Test Result

5G NR n78d 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	3624.99	Outer_Full	20	LV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-8.00	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-8.80	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-4.40	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
			30	NV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-2.50	-0.0007	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
				HV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-9.40	-0.0026	>=-2.5 & <=2.5	Pass
			0	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
			20	NV	-4.10	-0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-9.70	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-7.60	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
			0	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-9.70	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-5.10	-0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
				HV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass

			-30	NV	-4.50	-0.0012	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-7.60	-0.0021	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-8.60	-0.0024	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-7.80	-0.0022	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-9.90	-0.0027	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-4.50	-0.0012	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-8.20	-0.0023	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-6.80	-0.0019	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-7.40	-0.0020	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-5.20	-0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-4.20	-0.0012	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-5.70	-0.0016	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-3.20	-0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-6.30	-0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-6.20	-0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-6.00	-0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-4.30	-0.0012	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-3.40	-0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-2.80	-0.0008	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-4.90	-0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-5.60	-0.0015	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-6.60	-0.0018	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-5.40	-0.0015	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-4.60	-0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-4.10	-0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-3.50	-0.0010	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-5.90	-0.0016	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-6.20	-0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-7.70	-0.0021	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-7.50	-0.0021	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-4.80	-0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-8.30	-0.0023	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-3.70	-0.0010	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-6.10	-0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-5.10	-0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-7.70	-0.0021	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-6.20	-0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-5.10	-0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-5.10	-0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-5.90	-0.0016	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-5.20	-0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-6.00	-0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-5.80	-0.0016	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-8.00	-0.0022	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-1.60	-0.0004	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-3.80	-0.0010	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-3.00	-0.0008	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-3.00	-0.0008	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-8.40	-0.0023	$\geq -2.5 \ \& \ \leq 2.5$	Pass

2.2 30k_SISO_30MHz

2.2.1 Test Result

5G NR n78d 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	3624.99	Outer_Full	20	LV	-9.20	-0.0025	>=-2.5 & <=2.5	Pass
				HV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	-8.70	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-6.10	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-9.20	-0.0025	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-8.00	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-4.60	-0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-8.30	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-4.30	-0.0012	>=-2.5 & <=2.5	Pass
			30	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-9.10	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-8.80	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
			40	NV	-9.80	-0.0027	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-8.70	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-7.60	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-11.70	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-10.60	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-8.40	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-5.50	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
				HV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-10.60	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-9.50	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-8.30	-0.0023	>=-2.5 & <=2.5	Pass

			20	NV	-6.00	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-3.40	-0.0009	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-5.20	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-7.30	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-3.60	-0.0010	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-4.30	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-5.50	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-4.20	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-6.10	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-6.20	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-2.80	-0.0008	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-4.90	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-4.60	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-8.60	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-4.10	-0.0011	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-3.60	-0.0010	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-5.00	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-5.70	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-6.70	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-6.60	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-8.00	-0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-4.30	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-4.10	-0.0011	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-4.70	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-4.20	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-5.70	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-3.50	-0.0010	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-5.40	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-3.50	-0.0010	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-6.20	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-6.50	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-6.20	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-6.90	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-3.10	-0.0009	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-7.30	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-8.20	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-4.70	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-4.80	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-6.20	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-6.40	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-6.40	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-9.10	-0.0025	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-5.30	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-4.40	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-3.40	-0.0009	$\geq -2.5 \text{ \& } \leq 2.5$	Pass

2.3 30k_SISO_40MHz

2.3.1 Test Result

5G NR n78d 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	3624.99	Outer_Full	20	LV	-8.30	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-9.60	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-8.40	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-7.60	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			30	NV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
				HV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-7.40	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-8.40	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	-10.20	-0.0028	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-9.70	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-9.30	-0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-10.20	-0.0028	>=-2.5 & <=2.5	Pass
			20	NV	-8.40	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-8.30	-0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-8.80	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-9.20	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-9.70	-0.0027	>=-2.5 & <=2.5	Pass

			20	NV	-5.10	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-5.40	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-7.20	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-7.50	-0.0021	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-4.20	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-4.90	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-6.10	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-6.20	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-5.80	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-3.70	-0.0010	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-4.70	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-4.80	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-6.90	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-5.70	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-6.00	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-3.90	-0.0011	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-6.40	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-4.90	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-4.70	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-6.10	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-5.00	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-5.00	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-6.80	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-8.20	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-5.80	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-6.60	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-7.20	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-7.40	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-3.10	-0.0009	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-5.60	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-4.10	-0.0011	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-6.20	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-7.40	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-3.60	-0.0010	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-3.60	-0.0010	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-6.50	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-5.40	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-7.50	-0.0021	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-4.10	-0.0011	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-6.60	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-6.30	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-4.50	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-6.80	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-6.40	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-5.40	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass

2.4 30k_SISO_50MHz

2.4.1 Test Result

5G NR n78d SCS=30kHz SISO 50MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
				HV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-11.40	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	-7.60	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-4.10	-0.0011	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-4.40	-0.0012	>=-2.5 & <=2.5	Pass
				HV	-6.10	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-8.70	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-9.00	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-7.40	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-8.70	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-8.00	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-6.10	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	-10.70	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-8.00	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-12.10	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-13.20	-0.0036	>=-2.5 & <=2.5	Pass
			-20	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-8.00	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass

			20	NV	-6.80	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-9.20	-0.0025	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-5.40	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-6.90	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-7.10	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-5.90	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-6.10	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-6.30	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-8.50	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-3.80	-0.0010	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-4.60	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-3.90	-0.0011	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-6.60	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-4.10	-0.0011	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-7.90	-0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-7.00	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-5.70	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-8.40	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-7.00	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-7.00	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-5.20	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-4.70	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-2.50	-0.0007	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-5.90	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-3.40	-0.0009	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-6.80	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-4.00	-0.0011	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-5.20	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-6.40	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-3.30	-0.0009	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-5.40	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-5.90	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-5.70	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-6.00	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-3.30	-0.0009	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-8.80	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-5.70	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-9.60	-0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-4.60	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-8.60	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-5.20	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-5.50	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-4.90	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-5.60	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-8.40	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass

2.5 30k_SISO_60MHz

2.5.1 Test Result

5G NR n78d SCS=30kHz SISO 60MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-9.30	-0.0026	>=-2.5 & <=2.5	Pass
				HV	-9.80	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-10.00	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-10.80	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-9.40	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-7.40	-0.0020	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-8.00	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			30	NV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	-9.20	-0.0025	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-9.20	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-11.30	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-9.10	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-9.30	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-12.10	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-5.50	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-9.50	-0.0026	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
				HV	-7.60	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-9.90	-0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-11.50	-0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-1.90	-0.0005	>=-2.5 & <=2.5	Pass
			10	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-9.30	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-6.10	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-6.10	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-9.10	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass

			20	NV	-7.30	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-7.80	-0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-4.90	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-9.20	-0.0025	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-3.30	-0.0009	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-6.30	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-7.30	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-5.50	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-5.40	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-7.90	-0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-6.90	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-4.10	-0.0011	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-4.60	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-5.40	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-8.80	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-6.70	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-6.50	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-7.60	-0.0021	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-5.00	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-5.80	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-5.40	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-6.70	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-4.60	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-7.00	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-7.10	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-3.50	-0.0010	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-5.50	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-8.70	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-9.30	-0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-5.60	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-7.80	-0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-4.40	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-6.30	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-3.70	-0.0010	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-8.10	-0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-4.20	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-7.00	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-6.80	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-6.50	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-7.20	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-5.60	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-6.20	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-4.50	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-6.20	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-7.10	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass

2.6 30k_SISO_70MHz

2.6.1 Test Result

5G NR n78d SCS=30kHz SISO 70MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-8.40	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-8.00	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-8.30	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-4.40	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-8.40	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-8.40	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-11.40	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-8.80	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-7.60	-0.0021	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-8.70	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-10.20	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass

			20	NV	-3.90	-0.0011	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-6.30	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-8.00	-0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-9.60	-0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-6.70	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-4.40	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-3.50	-0.0010	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-2.20	-0.0006	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-5.20	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-4.10	-0.0011	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-6.30	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-8.60	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-5.90	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-6.40	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-8.10	-0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-6.30	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-3.70	-0.0010	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-6.90	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-3.80	-0.0010	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-3.10	-0.0009	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-5.90	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-6.80	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-5.50	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-7.40	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-5.20	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-3.90	-0.0011	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-7.20	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-4.30	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-4.60	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-7.20	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-7.20	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-7.20	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-4.20	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-4.70	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-6.40	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-5.50	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-7.90	-0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-6.10	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-5.60	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-6.50	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-6.40	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-3.30	-0.0009	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-5.40	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-7.40	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-6.70	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass

2.7 30k_SISO_80MHz

2.7.1 Test Result

5G NR n78d SCS=30kHz SISO 80MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-5.10	-0.0014	>=-2.5 & <=2.5	Pass
				HV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-11.60	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-11.30	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-11.40	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-9.10	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-8.60	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-7.60	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-5.10	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-10.60	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-7.60	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-10.30	-0.0028	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	10	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass

			20	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-4.60	-0.0013	>=-2.5 & <=2.5	Pass
			50	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
				HV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
			0	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
			30	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			50	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-2.00
HV	-6.60	-0.0018					>=-2.5 & <=2.5	Pass
-30	NV	-8.80				-0.0024	>=-2.5 & <=2.5	Pass
-20	NV	-4.70				-0.0013	>=-2.5 & <=2.5	Pass
-10	NV	-4.40				-0.0012	>=-2.5 & <=2.5	Pass
0	NV	-5.30				-0.0015	>=-2.5 & <=2.5	Pass
10	NV	-5.30				-0.0015	>=-2.5 & <=2.5	Pass
20	NV	-6.90				-0.0019	>=-2.5 & <=2.5	Pass
30	NV	-5.80				-0.0016	>=-2.5 & <=2.5	Pass
40	NV	-4.30				-0.0012	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-5.50	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-8.80	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
50	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass			
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
				HV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-4.40	-0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	-8.00	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	-3.00	-0.0008	>=-2.5 & <=2.5	Pass
			30	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
50	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass			

2.8 30k_SISO_90MHz

2.8.1 Test Result

5G NR n78d SCS=30kHz SISO 90MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
				HV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-4.10	-0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	-9.10	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-10.60	-0.0029	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			30	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-9.10	-0.0025	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-7.60	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-8.00	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
				HV	-6.10	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-7.60	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-8.60	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-5.10	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-8.60	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-10.70	-0.0030	>=-2.5 & <=2.5	Pass

			20	NV	-6.70	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-8.80	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-8.00	-0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-8.60	-0.0024	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-7.90	-0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-4.90	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-6.20	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-4.80	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-4.90	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-6.00	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-7.40	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-5.50	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-4.30	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-6.00	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-4.70	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-6.50	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-5.60	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-4.30	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-8.90	-0.0025	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-5.70	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-7.50	-0.0021	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-4.70	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-5.90	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-4.30	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-6.30	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-6.40	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-6.30	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-5.10	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-6.30	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-6.90	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-4.90	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-4.80	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-6.50	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-4.60	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-6.00	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-6.40	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-5.90	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-6.50	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-5.90	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-5.20	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-6.90	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-4.10	-0.0011	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-6.10	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-5.00	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-8.20	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass

2.9 30k_SISO_100MHz

2.9.1 Test Result

5G NR n78d SCS=30kHz SISO 100MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-7.60	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-8.60	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-9.30	-0.0026	>=-2.5 & <=2.5	Pass
			0	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-9.30	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
			30	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-13.80	-0.0038	>=-2.5 & <=2.5	Pass
				HV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-9.30	-0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
			0	NV	-11.80	-0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-7.40	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-5.50	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-9.90	-0.0027	>=-2.5 & <=2.5	Pass
			40	NV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-9.20	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-8.80	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
				HV	-3.80	-0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-9.70	-0.0027	>=-2.5 & <=2.5	Pass
			10	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
			30	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
				HV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-0.80	-0.0002	>=-2.5 & <=2.5	Pass
			0	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass

			20	NV	-9.50	-0.0026	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-7.70	-0.0021	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-6.10	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-6.80	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-3.90	-0.0011	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-3.00	-0.0008	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-7.60	-0.0021	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-6.00	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-3.40	-0.0009	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-10.50	-0.0029	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-5.60	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-6.90	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-6.80	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-7.30	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-6.50	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-5.60	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-8.00	-0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-6.30	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-8.10	-0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-5.10	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-8.00	-0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-6.20	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-5.80	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-5.30	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-7.10	-0.0020	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-6.60	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-7.00	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-7.00	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-7.70	-0.0021	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-5.00	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-4.40	-0.0012	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-5.40	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-5.00	-0.0014	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-5.30	-0.0015	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-6.70	-0.0018	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
				HV	-6.80	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-30	NV	-1.90	-0.0005	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-20	NV	-6.90	-0.0019	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			-10	NV	-6.30	-0.0017	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			0	NV	-8.30	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			10	NV	-4.80	-0.0013	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			20	NV	-5.90	-0.0016	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			30	NV	-8.20	-0.0023	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			40	NV	-3.50	-0.0010	$\geq -2.5 \text{ \& } \leq 2.5$	Pass
			50	NV	-8.00	-0.0022	$\geq -2.5 \text{ \& } \leq 2.5$	Pass

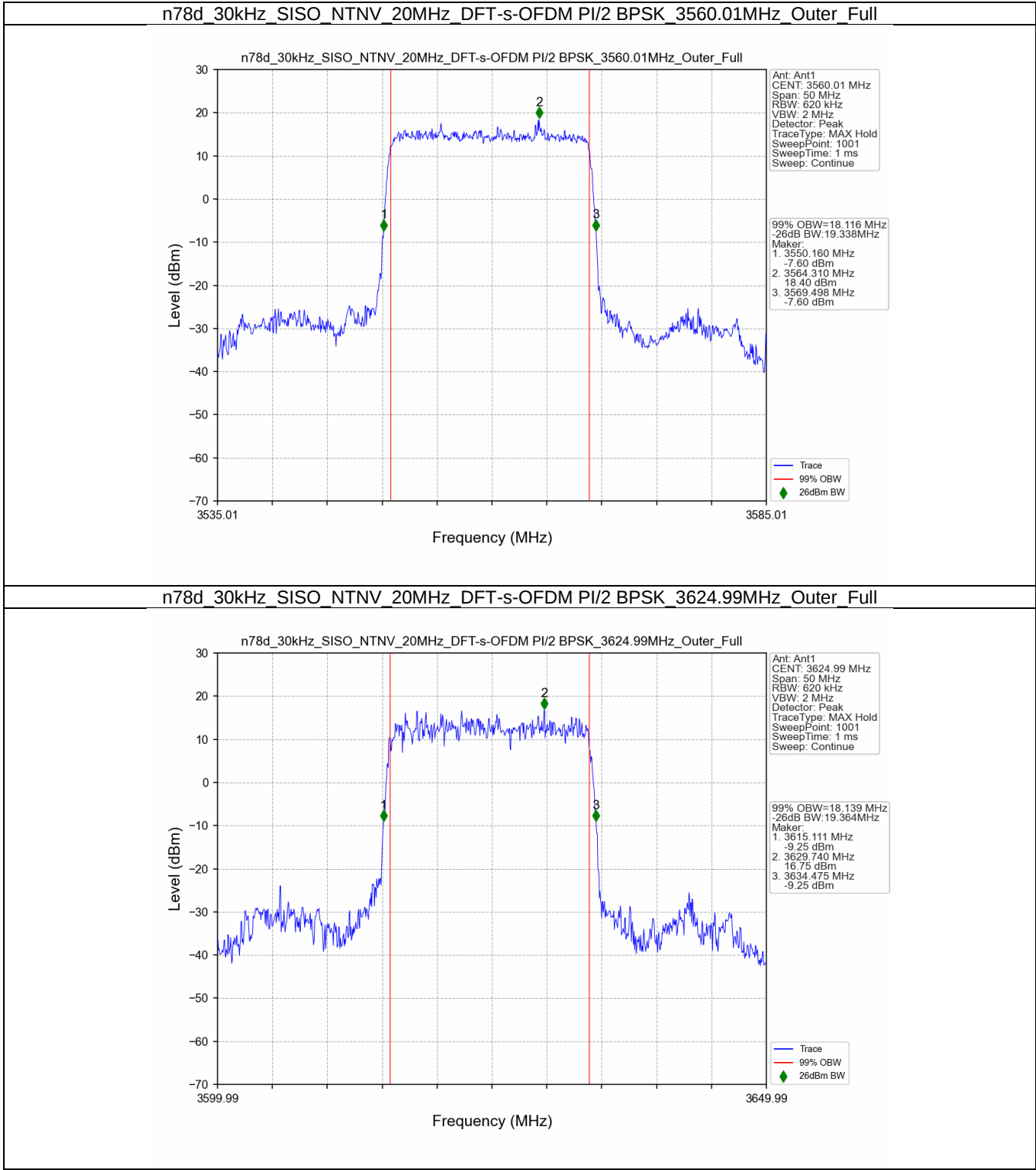
3. 99% & 26dB Bandwidth

3.1 30k_SISO_20MHz_NTNV

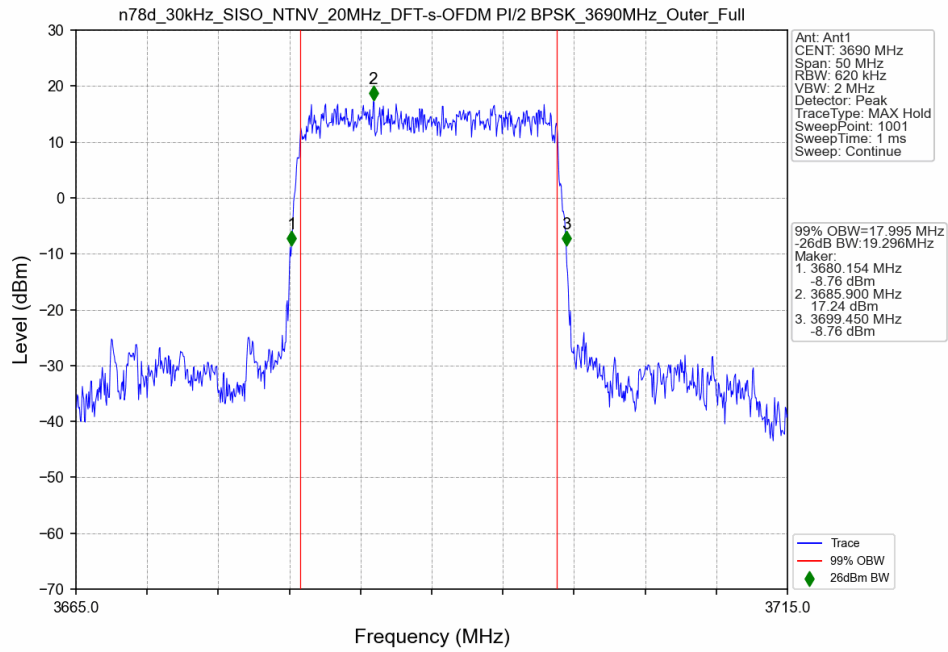
3.1.1 Test Result

5G NR n78d SCS=30kHz SISO 20MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3560.01	Outer_Full	18.12	19.34	/	Pass
	3624.99	Outer_Full	18.14	19.36	/	Pass
	3690	Outer_Full	18.00	19.30	/	Pass
DFT-s-OFDM QPSK	3560.01	Outer_Full	18.05	19.43	/	Pass
	3624.99	Outer_Full	18.20	19.36	/	Pass
	3690	Outer_Full	18.03	19.25	/	Pass
DFT-s-OFDM 16 QAM	3560.01	Outer_Full	18.07	19.39	/	Pass
	3624.99	Outer_Full	18.19	19.30	/	Pass
	3690	Outer_Full	18.07	19.30	/	Pass
DFT-s-OFDM 64 QAM	3560.01	Outer_Full	18.08	19.34	/	Pass
	3624.99	Outer_Full	17.91	19.22	/	Pass
	3690	Outer_Full	18.13	19.27	/	Pass
DFT-s-OFDM 256 QAM	3560.01	Outer_Full	18.04	19.40	/	Pass
	3624.99	Outer_Full	18.04	19.31	/	Pass
	3690	Outer_Full	18.17	19.35	/	Pass
CP-OFDM QPSK	3560.01	Outer_Full	18.38	19.70	/	Pass
	3624.99	Outer_Full	18.34	19.63	/	Pass
	3690	Outer_Full	18.40	19.71	/	Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	18.40	19.76	/	Pass
	3624.99	Outer_Full	18.38	19.70	/	Pass
	3690	Outer_Full	18.40	19.58	/	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	18.39	19.70	/	Pass
	3624.99	Outer_Full	18.37	19.59	/	Pass
	3690	Outer_Full	18.50	19.64	/	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	18.39	19.83	/	Pass
	3624.99	Outer_Full	18.47	19.57	/	Pass
	3690	Outer_Full	18.38	19.75	/	Pass

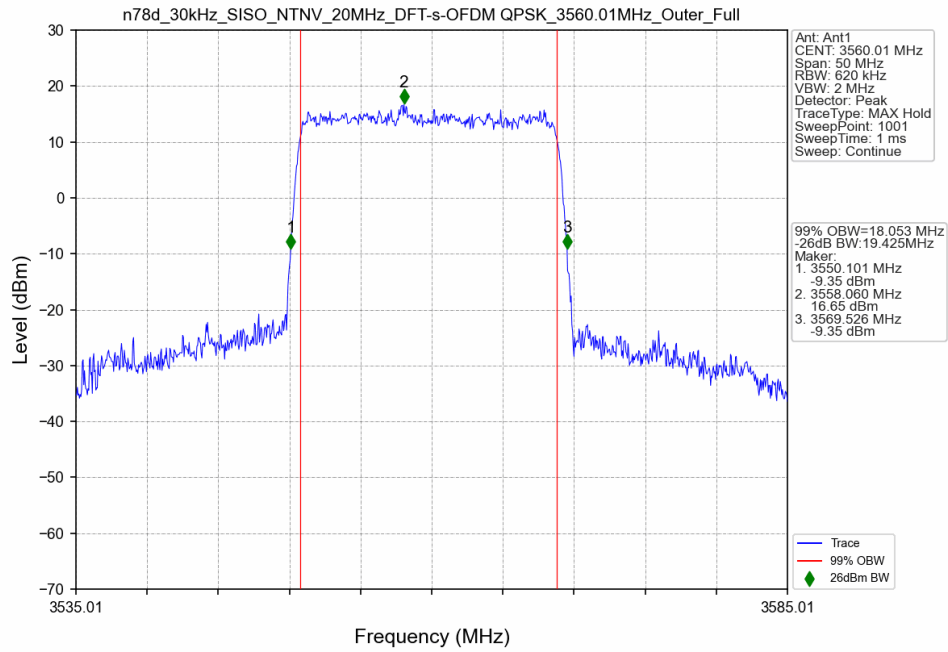
3.1.2 Test Graph



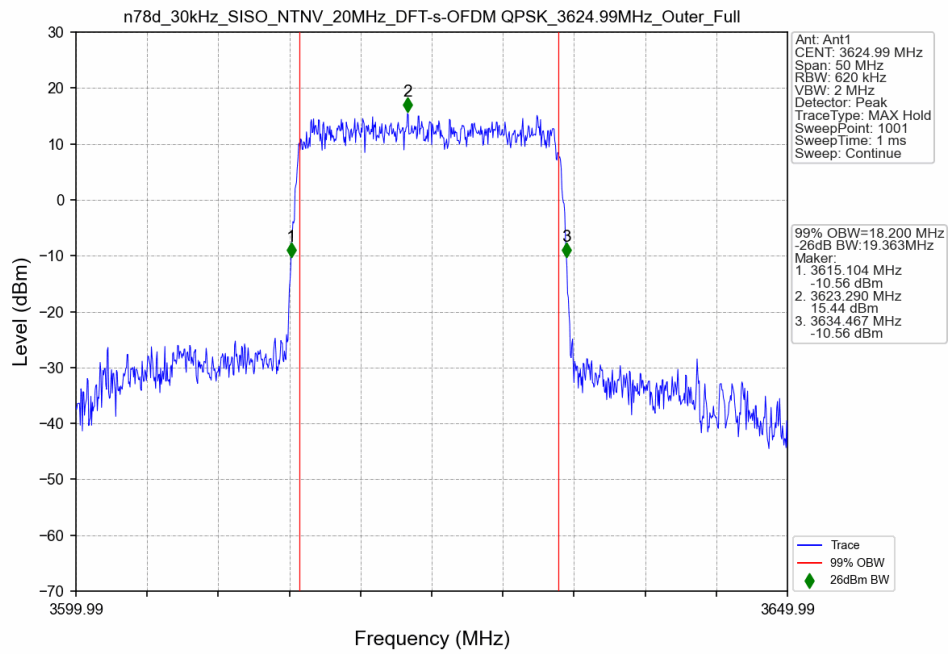
n78d 30kHz SISO NTN 20MHz DFT-s-OFDM PI/2 BPSK 3690MHz Outer Full



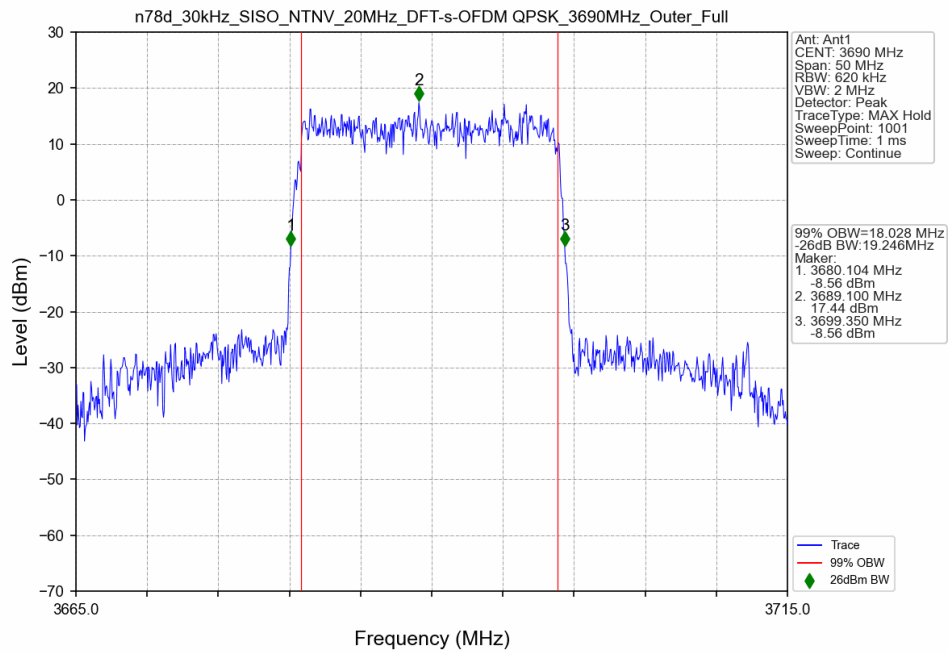
n78d 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3560.01MHz Outer Full



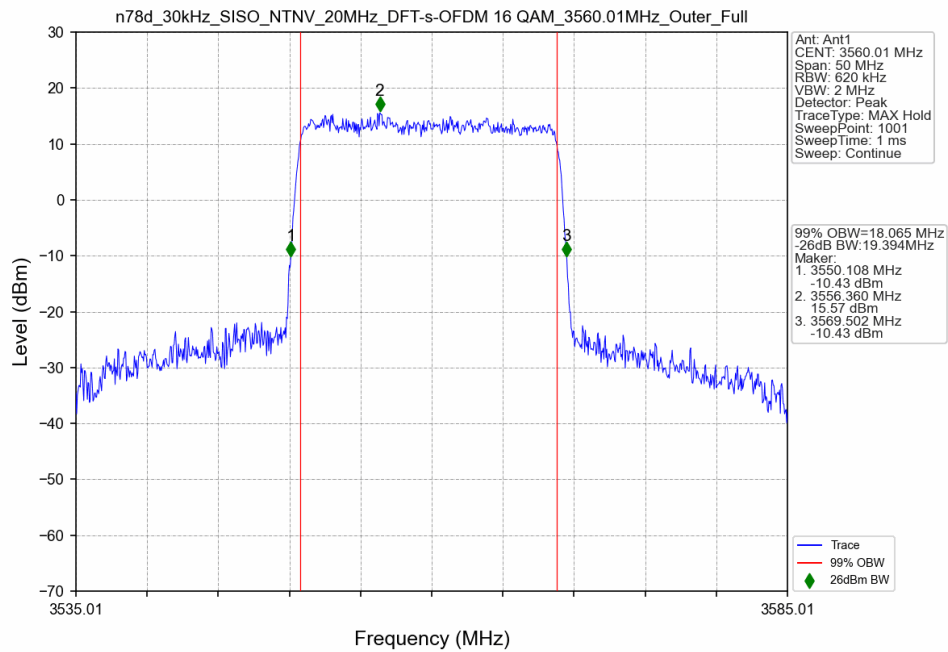
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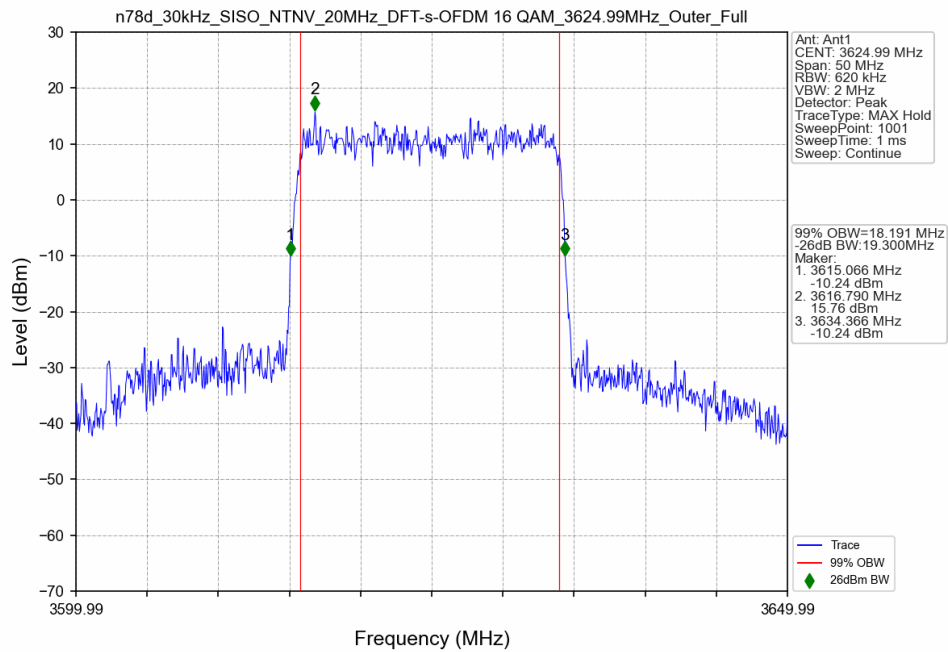
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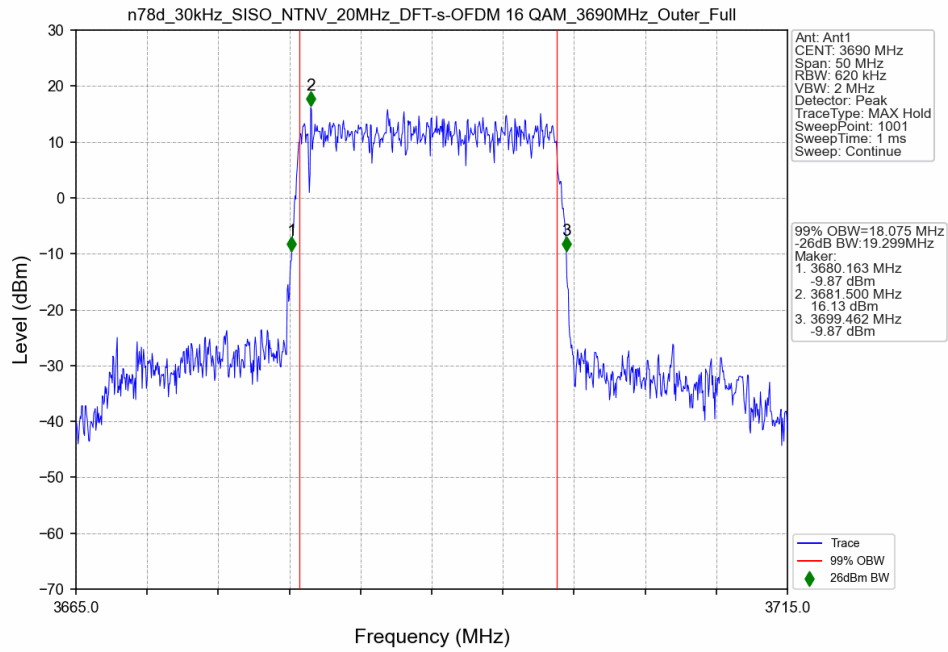
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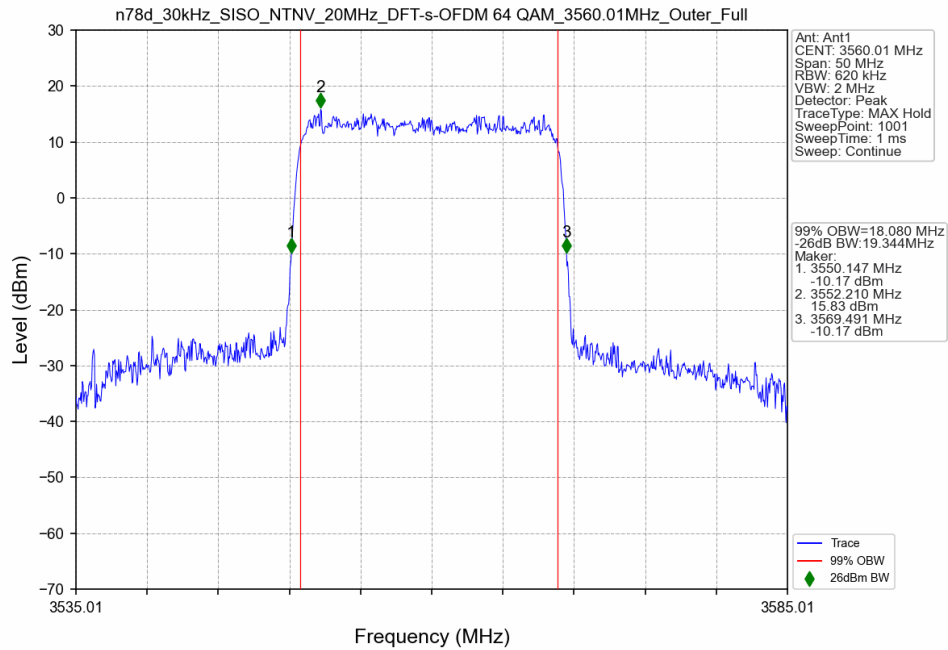
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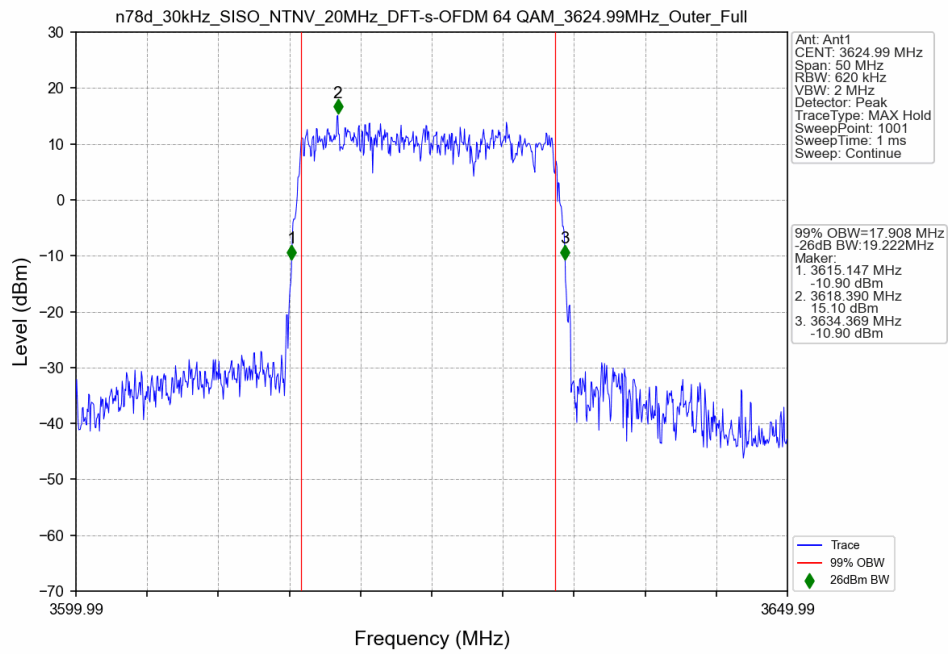
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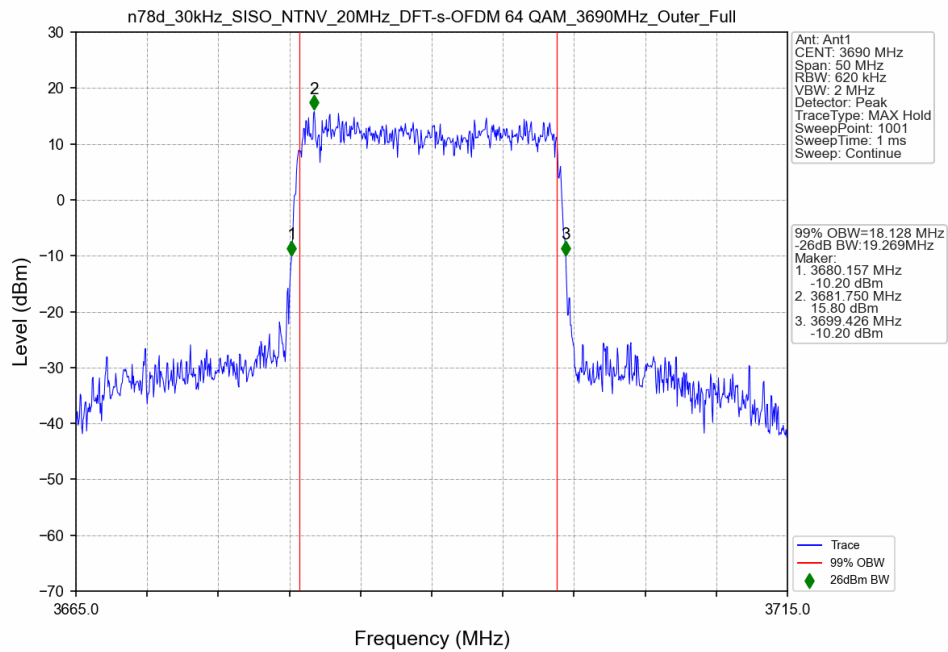
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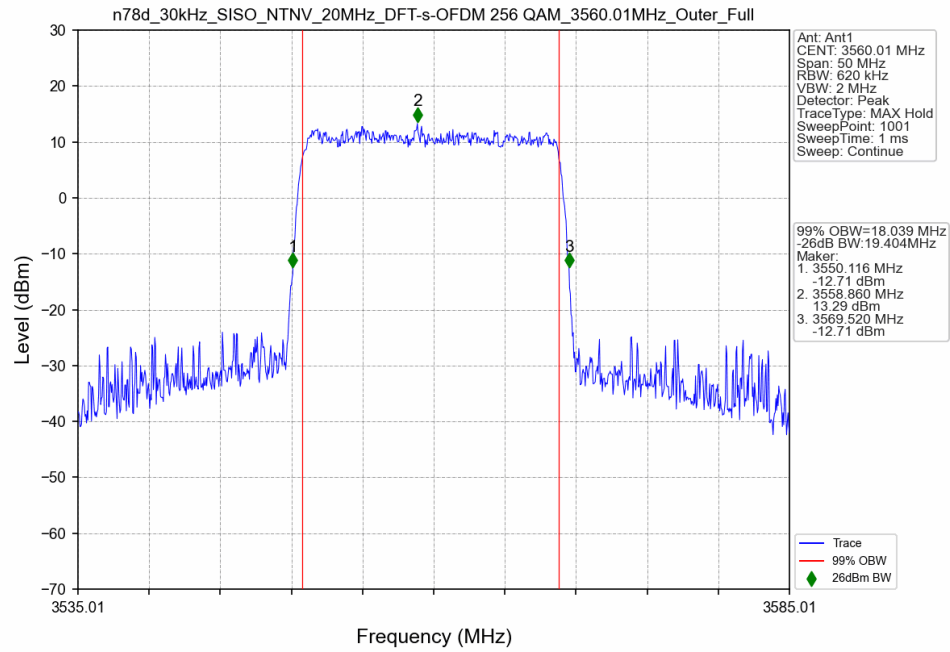
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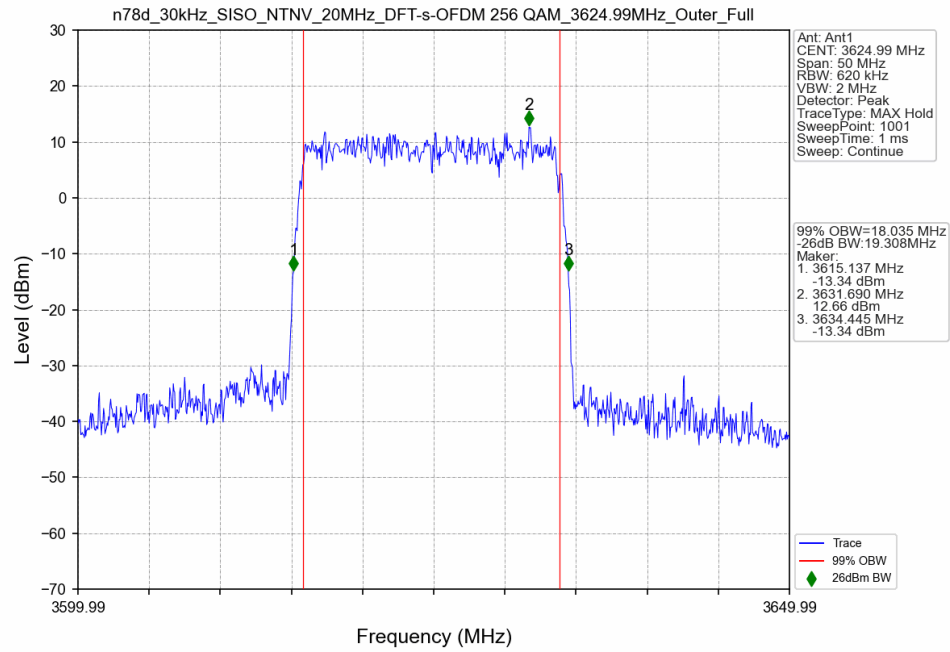
n78d 30kHz SISO NTN 20MHz DFT-s-OFDM 64 QAM 3690MHz Outer Full



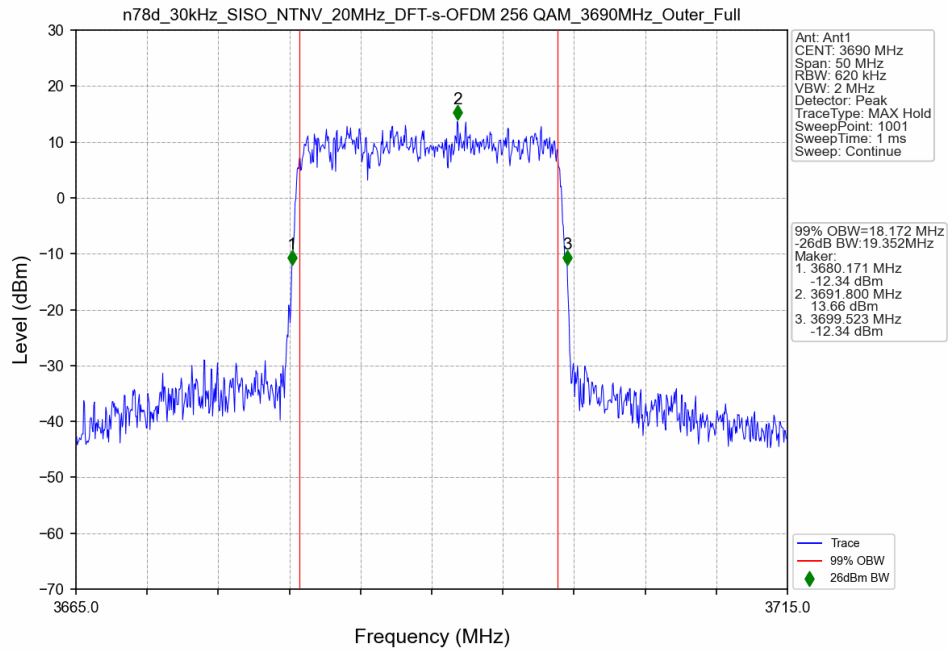
n78d 30kHz SISO NTN 20MHz DFT-s-OFDM 256 QAM 3560.01MHz Outer Full



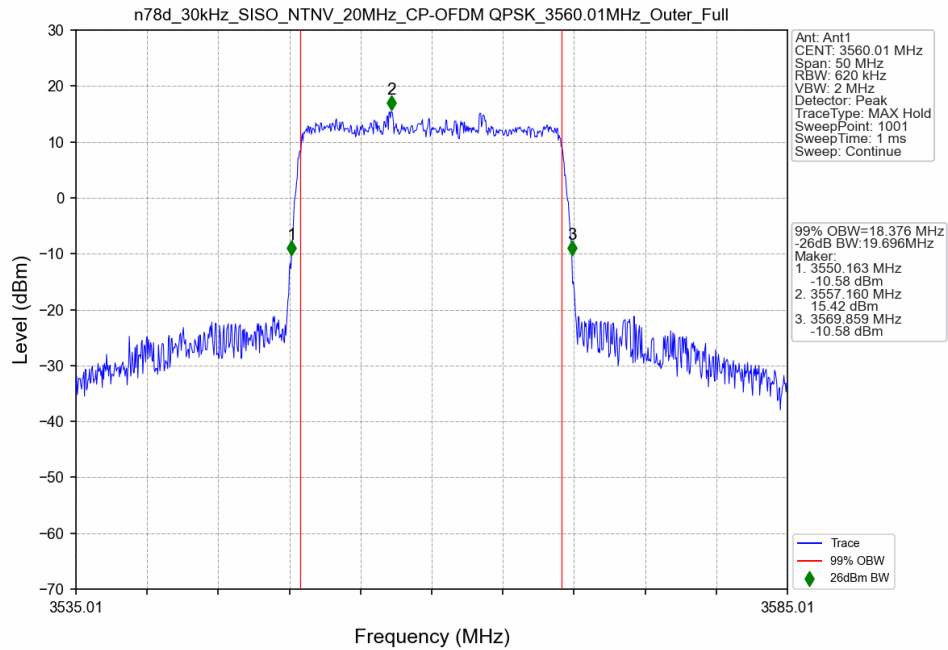
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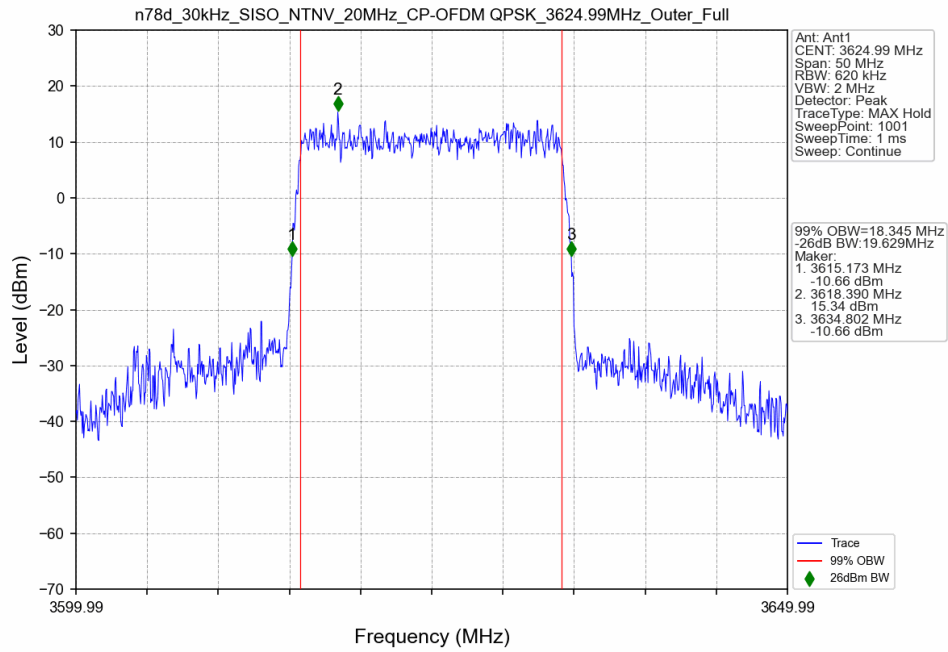
n78d 30kHz SISO NTN 20MHz DFT-s-OFDM 256 QAM 3690MHz Outer Full



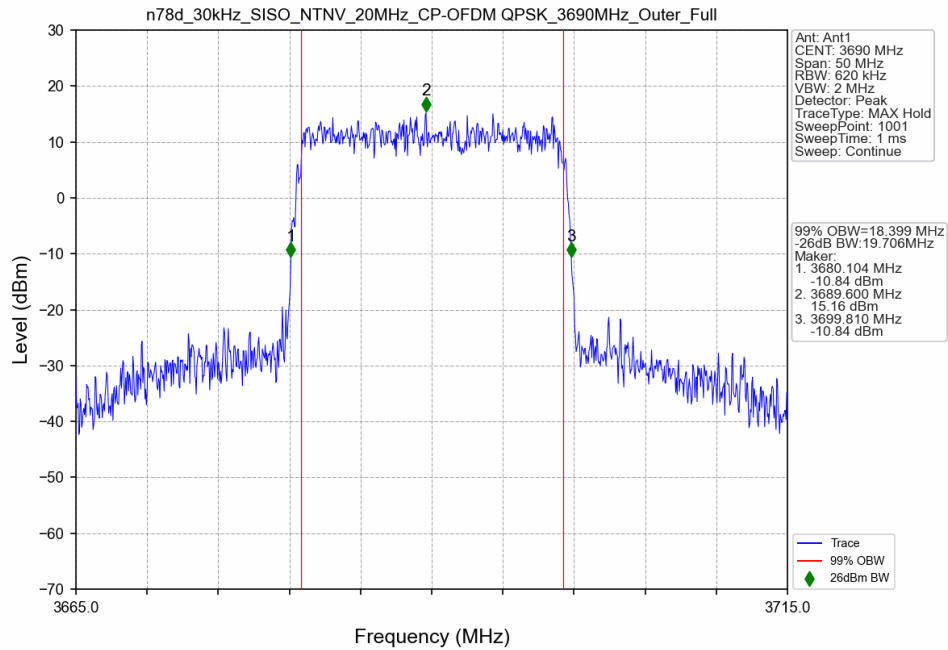
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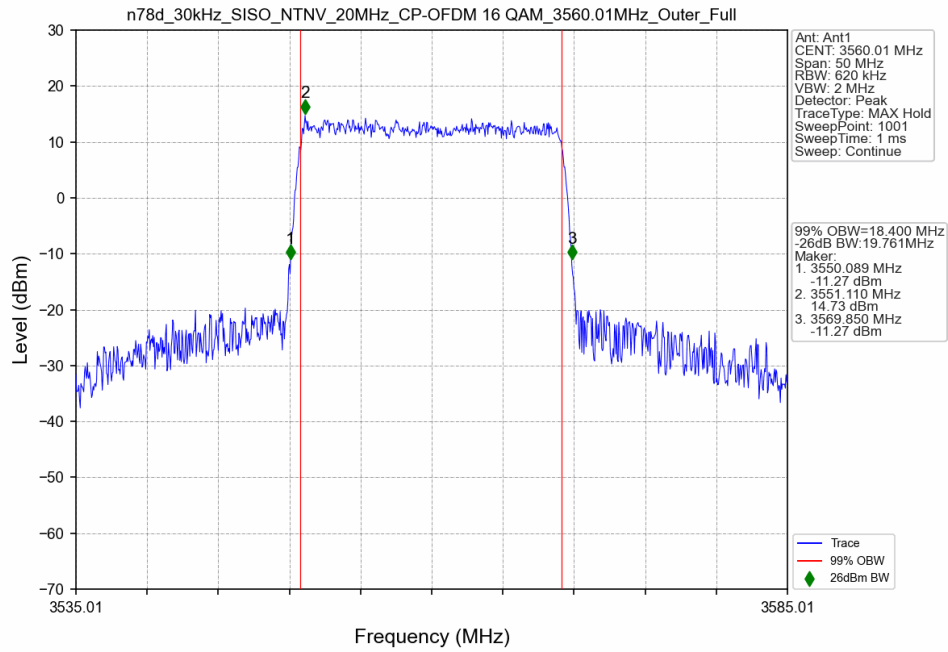
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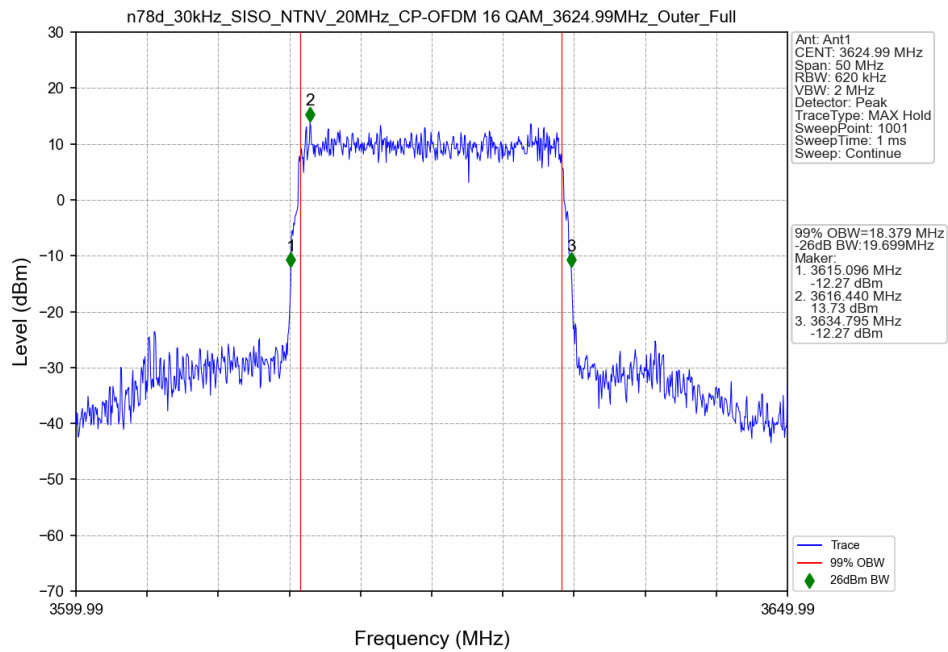
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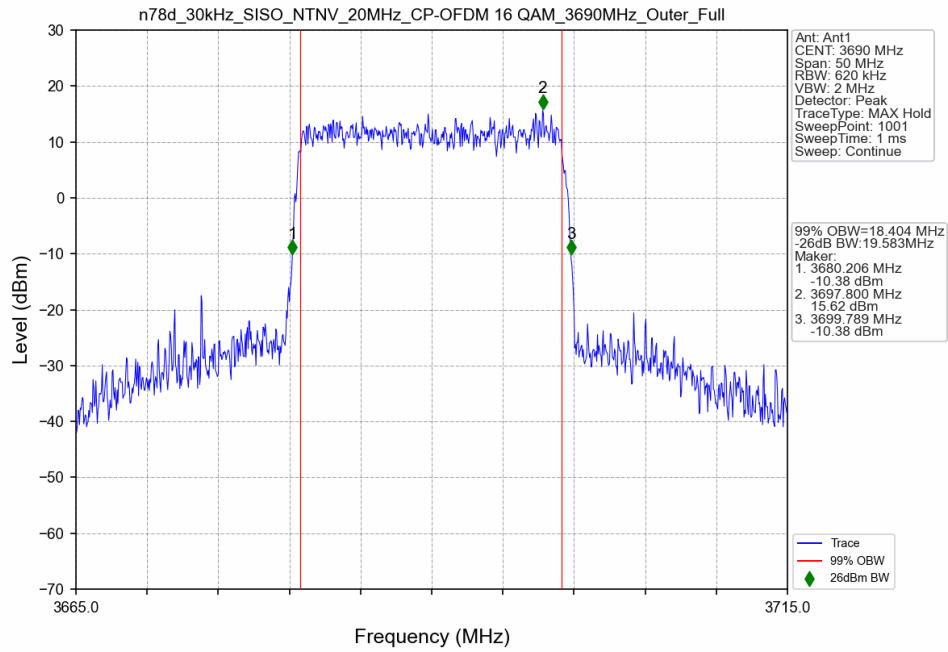
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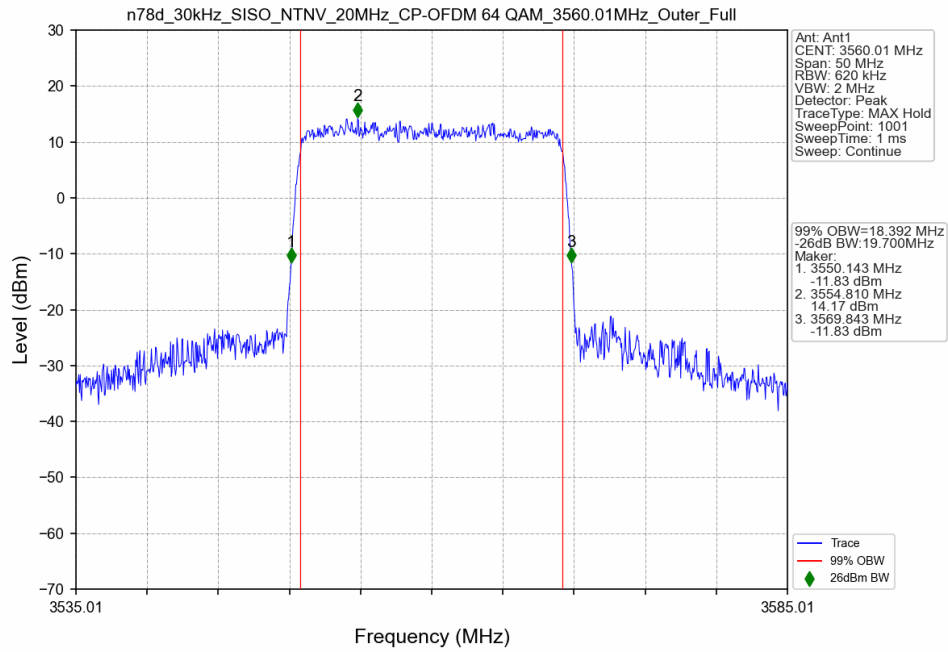
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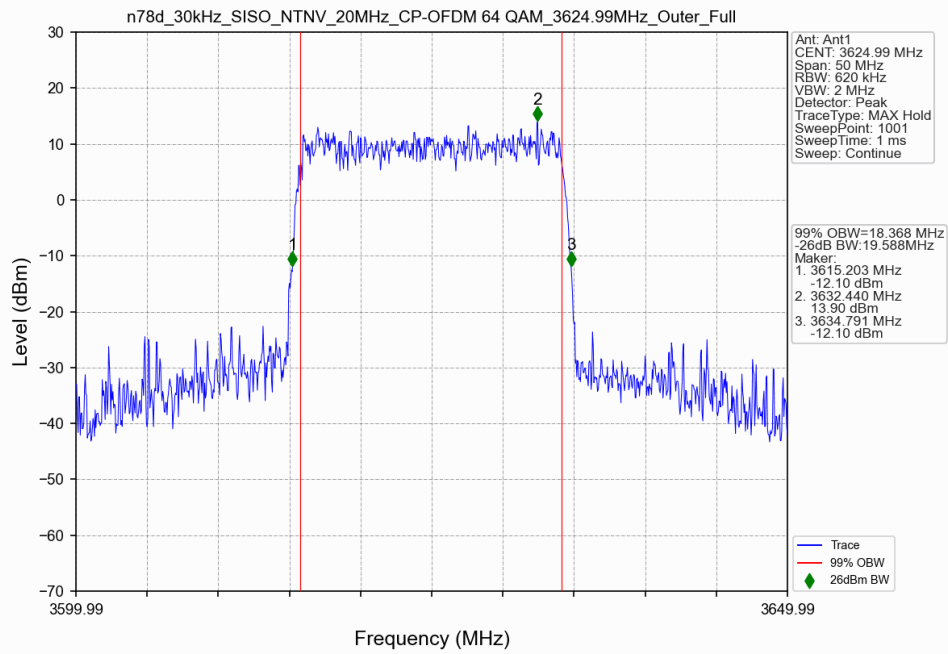
n78d 30kHz SISO NTN 20MHz CP-OFDM 16 QAM 3690MHz Outer Full



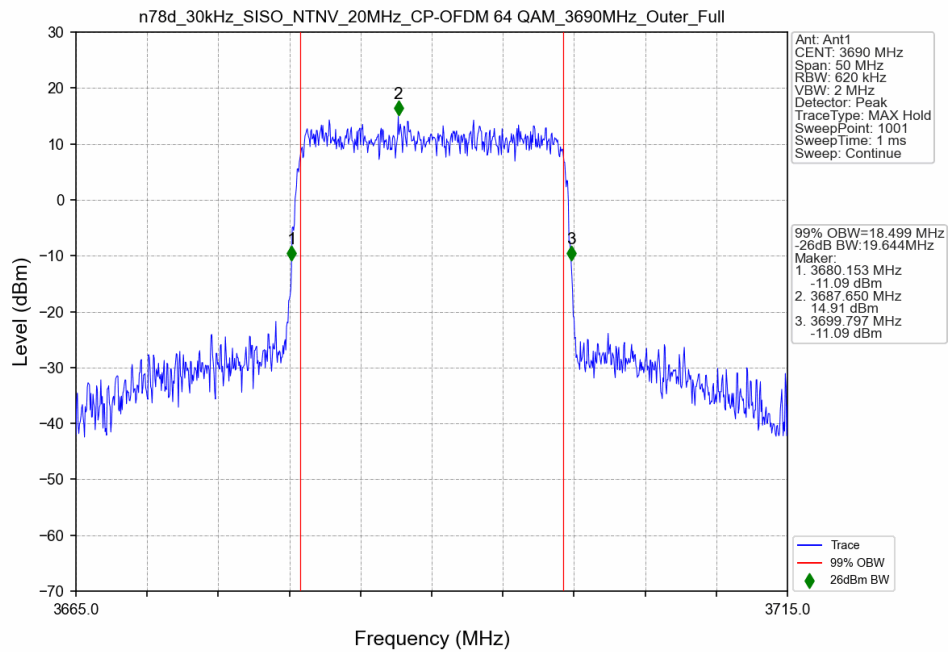
n78d 30kHz SISO NTN 20MHz CP-OFDM 64 QAM 3560.01MHz Outer Full



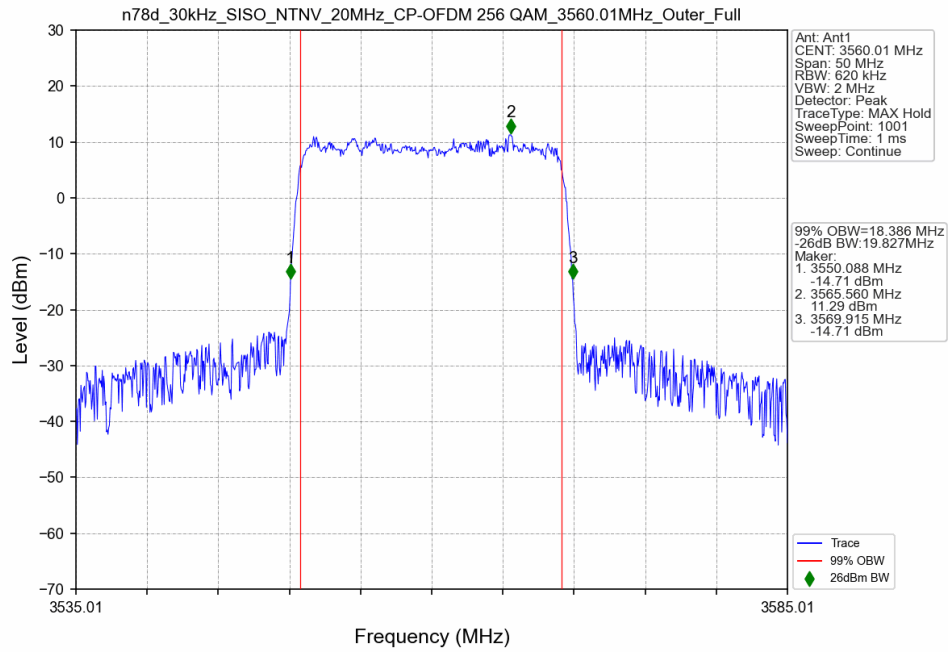
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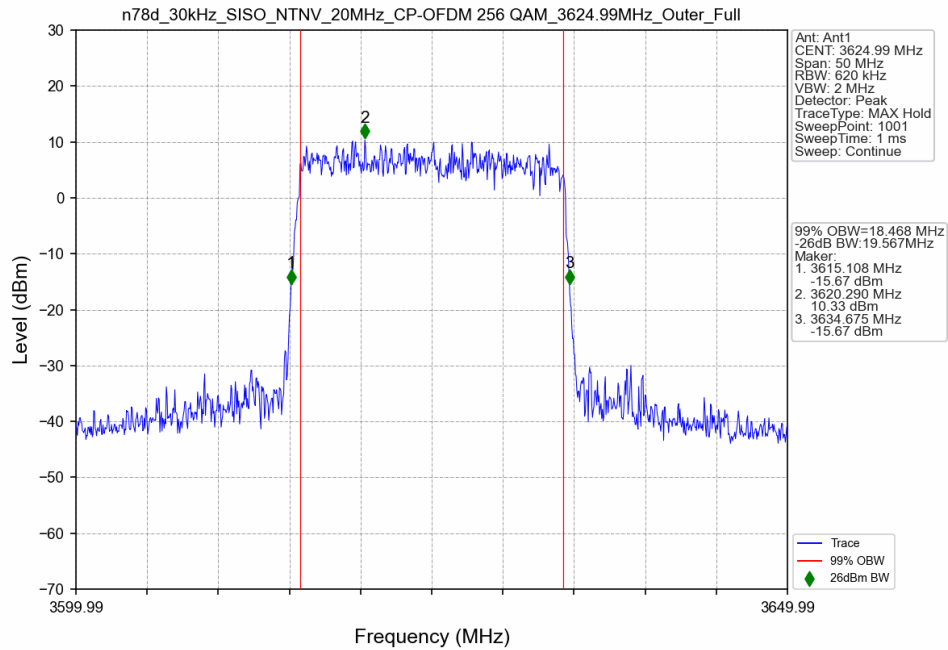
n78d 30kHz SISO NTN 20MHz CP-OFDM 64 QAM 3690MHz Outer Full



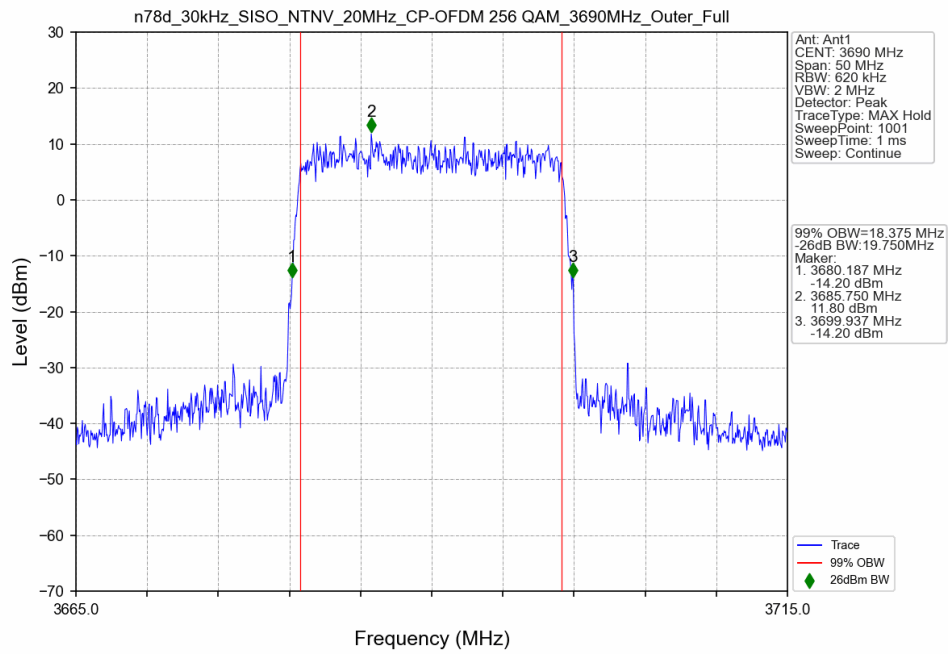
n78d 30kHz SISO NTN 20MHz CP-OFDM 256 QAM 3560.01MHz Outer Full



n78d 30kHz SISO NTN 20MHz CP-OFDM 256 QAM 3624.99MHz Outer Full



n78d 30kHz SISO NTN 20MHz CP-OFDM 256 QAM 3690MHz Outer Full

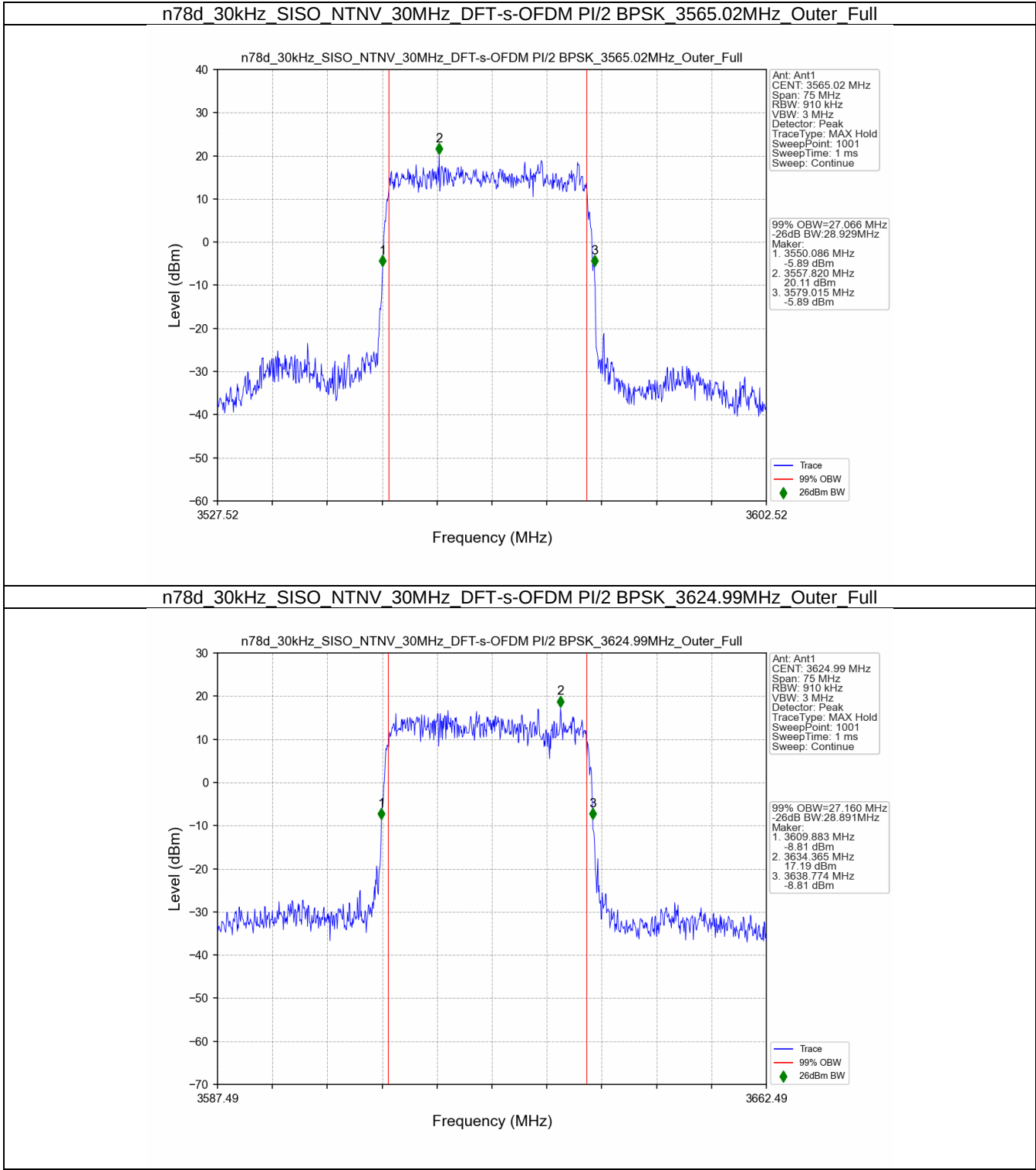


3.2 30k_SISO_30MHz_NTNV

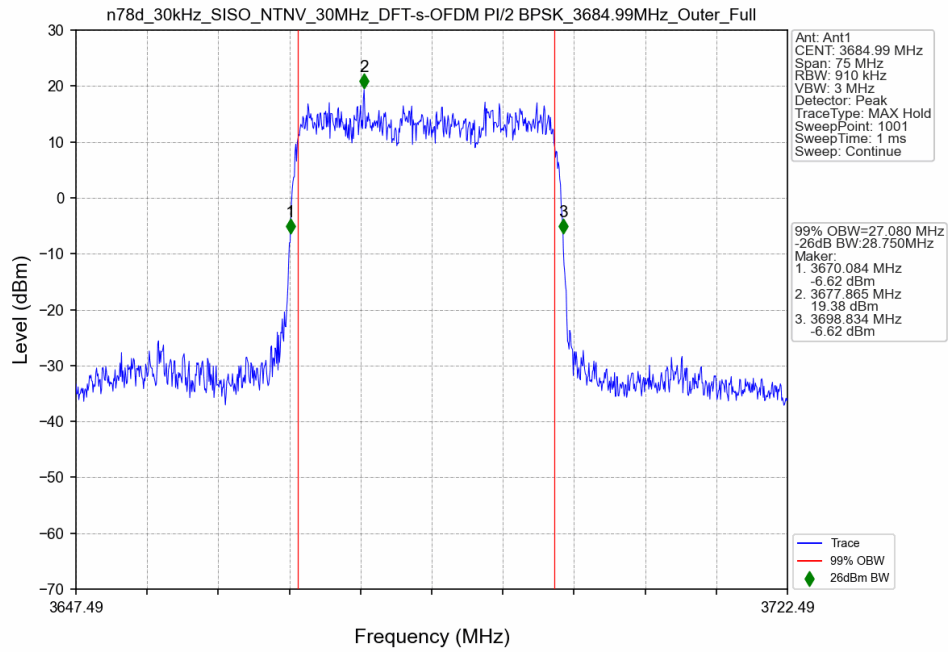
3.2.1 Test Result

5G NR n78d SCS=30kHz SISO 30MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3565.02	Outer_Full	27.07	28.93	/	Pass
	3624.99	Outer_Full	27.16	28.89	/	Pass
	3684.99	Outer_Full	27.08	28.75	/	Pass
DFT-s-OFDM QPSK	3565.02	Outer_Full	27.13	29.03	/	Pass
	3624.99	Outer_Full	26.99	28.73	/	Pass
	3684.99	Outer_Full	27.12	28.91	/	Pass
DFT-s-OFDM 16 QAM	3565.02	Outer_Full	27.04	29.00	/	Pass
	3624.99	Outer_Full	26.81	28.85	/	Pass
	3684.99	Outer_Full	27.11	28.92	/	Pass
DFT-s-OFDM 64 QAM	3565.02	Outer_Full	26.89	28.74	/	Pass
	3624.99	Outer_Full	26.94	28.98	/	Pass
	3684.99	Outer_Full	26.88	28.80	/	Pass
DFT-s-OFDM 256 QAM	3565.02	Outer_Full	27.14	28.87	/	Pass
	3624.99	Outer_Full	26.75	28.83	/	Pass
	3684.99	Outer_Full	27.08	28.91	/	Pass
CP-OFDM QPSK	3565.02	Outer_Full	28.06	29.95	/	Pass
	3624.99	Outer_Full	27.98	30.04	/	Pass
	3684.99	Outer_Full	28.07	30.05	/	Pass
CP-OFDM 16 QAM	3565.02	Outer_Full	27.83	29.84	/	Pass
	3624.99	Outer_Full	28.01	29.78	/	Pass
	3684.99	Outer_Full	27.98	30.03	/	Pass
CP-OFDM 64 QAM	3565.02	Outer_Full	27.92	29.96	/	Pass
	3624.99	Outer_Full	28.01	30.11	/	Pass
	3684.99	Outer_Full	27.92	29.86	/	Pass
CP-OFDM 256 QAM	3565.02	Outer_Full	28.18	30.00	/	Pass
	3624.99	Outer_Full	28.19	29.66	/	Pass
	3684.99	Outer_Full	28.14	29.95	/	Pass

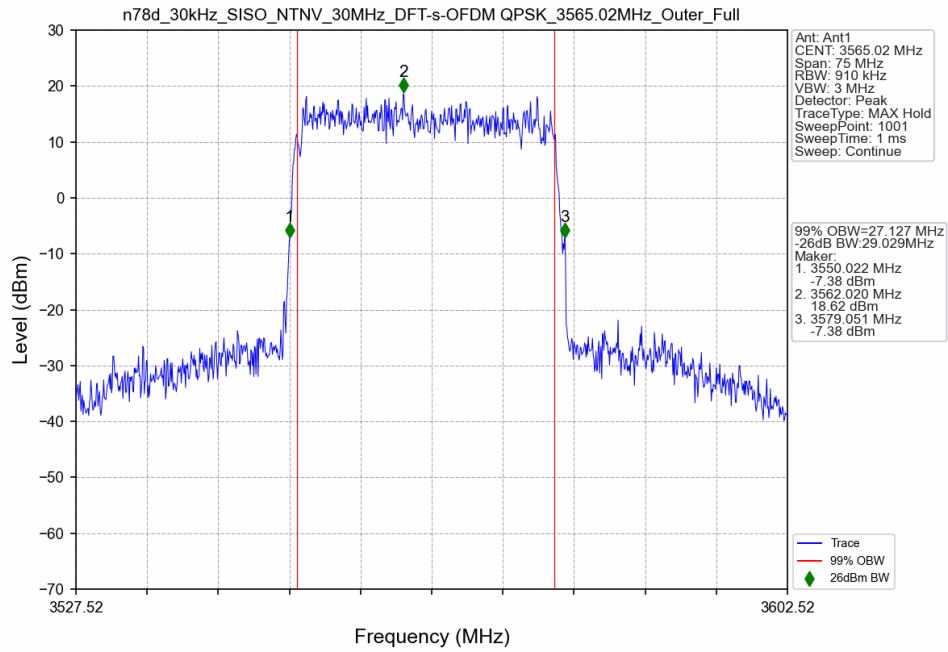
3.2.2 Test Graph



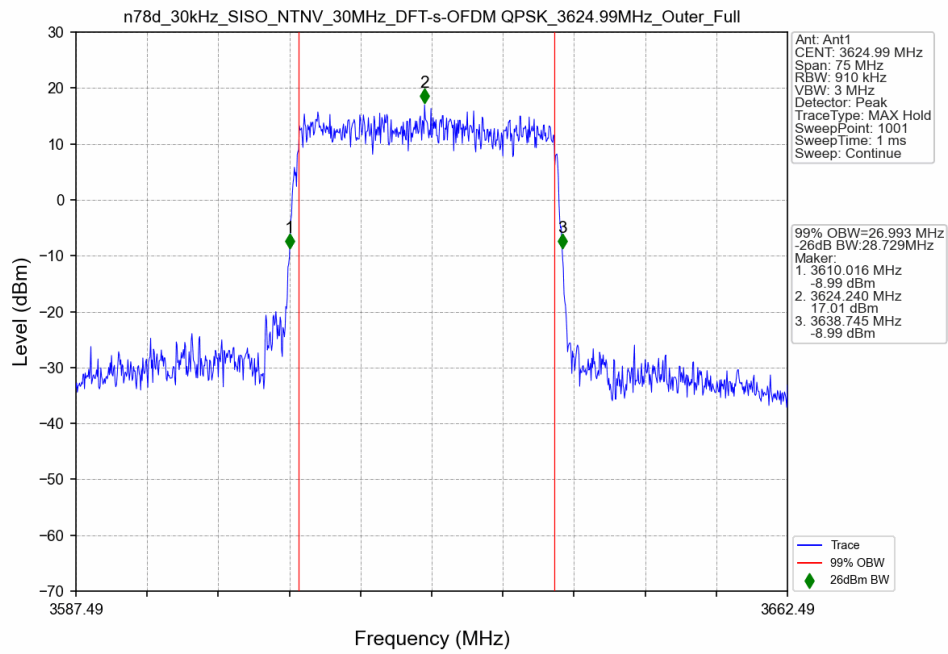
n78d 30kHz SISO NTN 30MHz DFT-s-OFDM PI/2 BPSK 3684.99MHz Outer Full



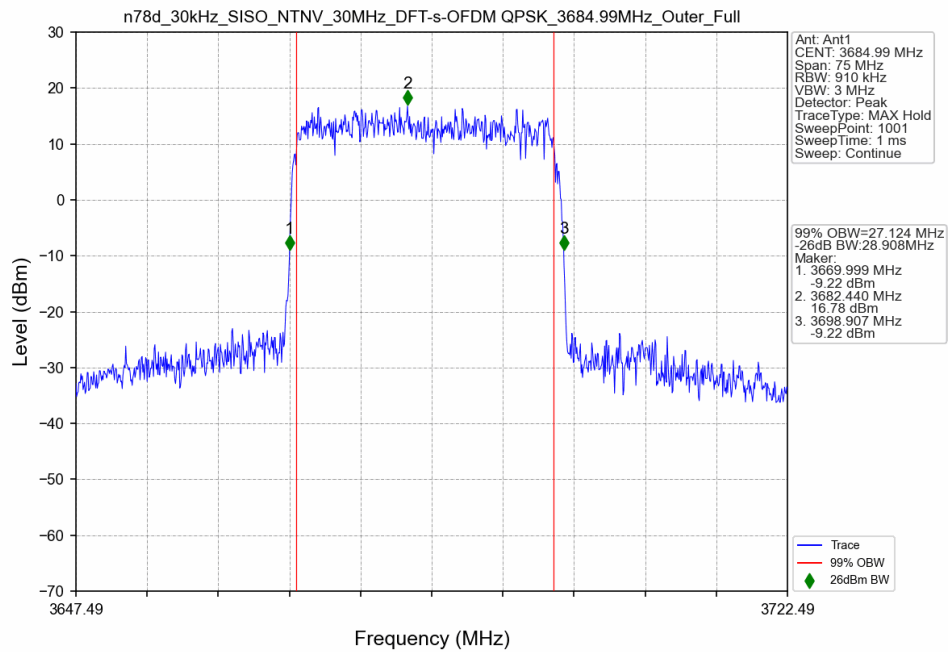
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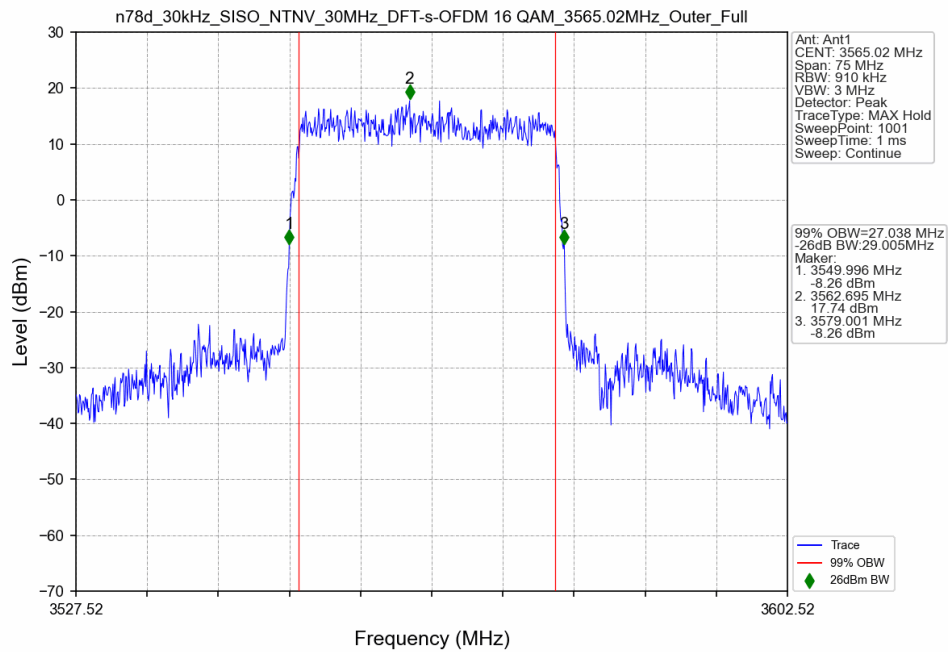
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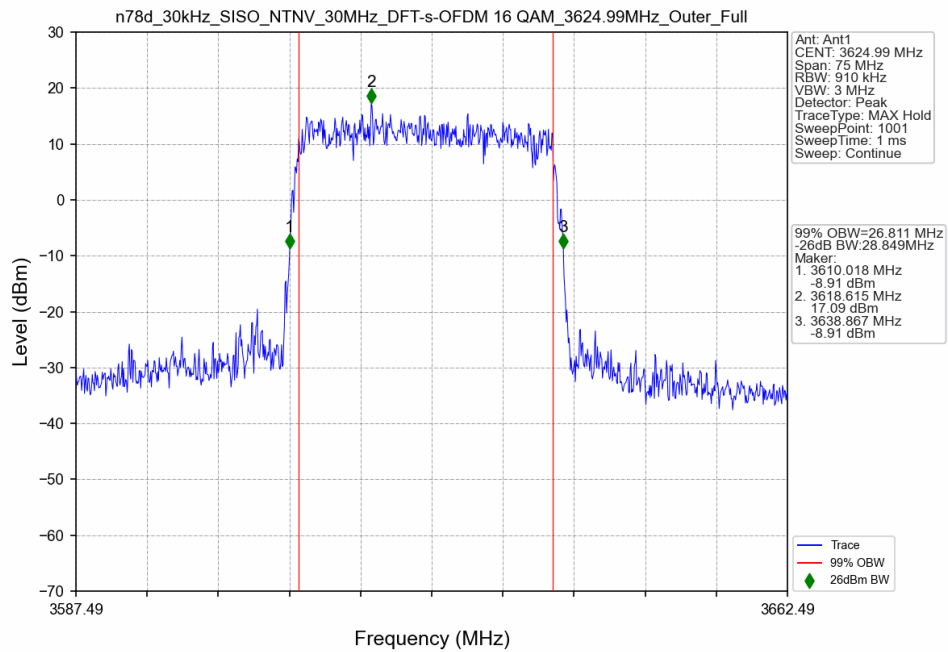
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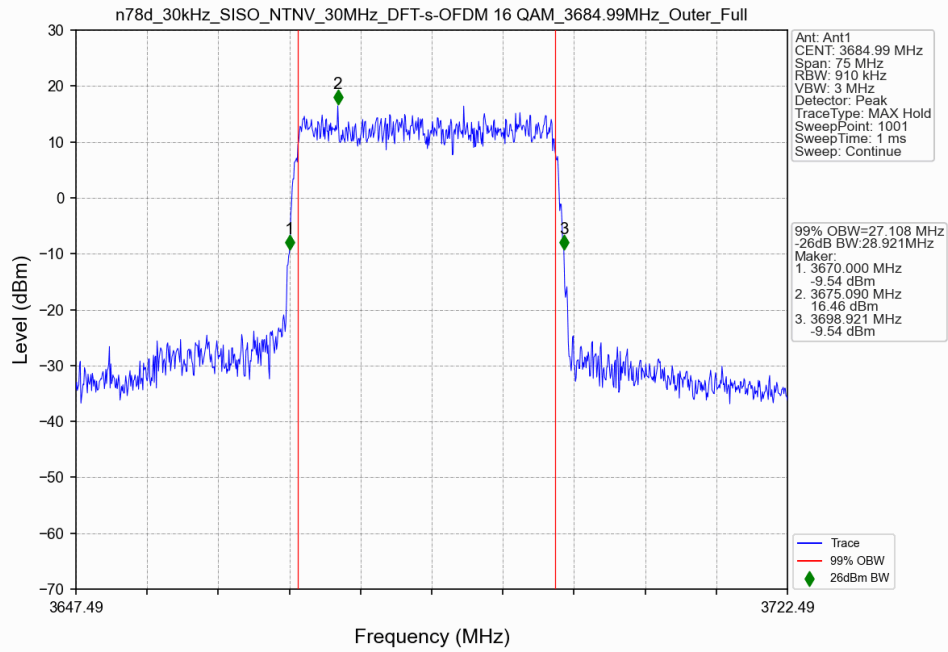
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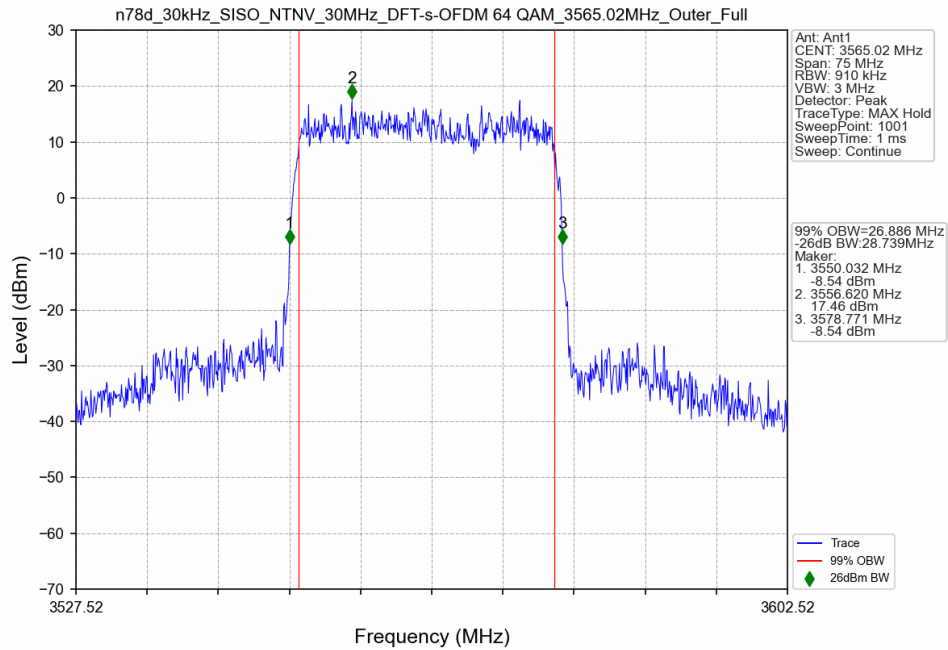
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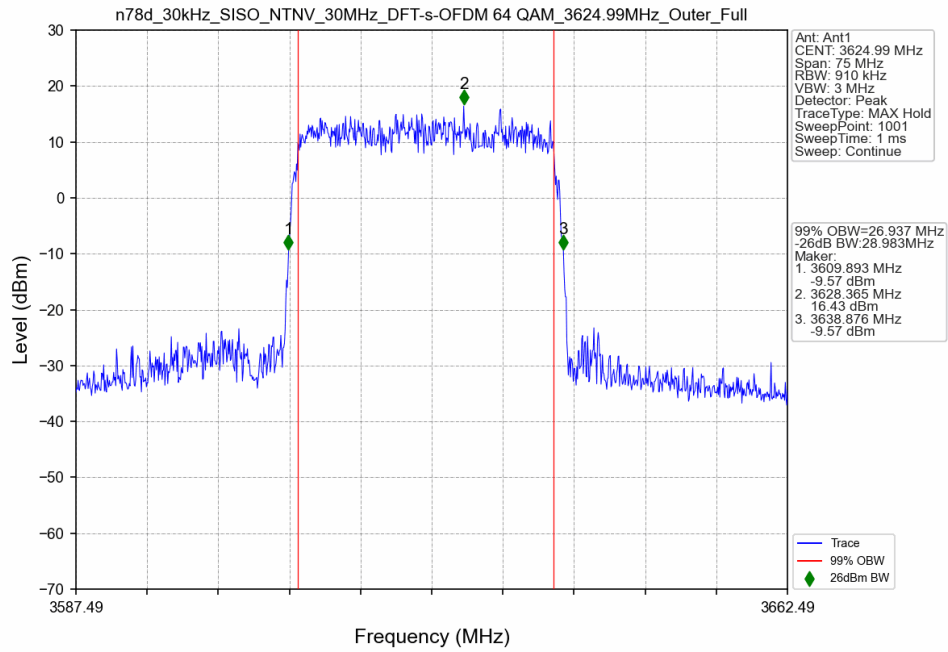
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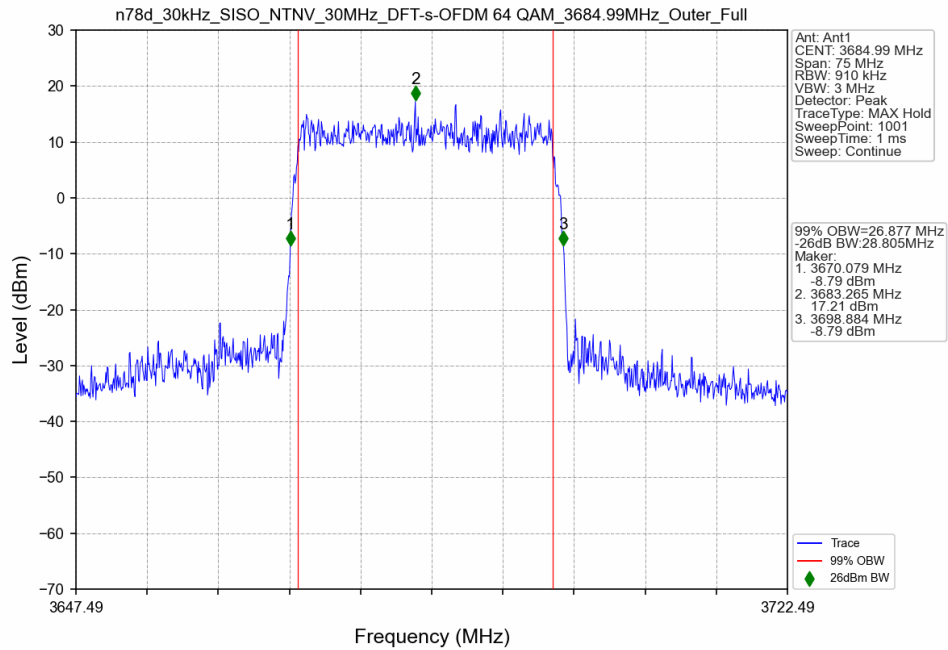
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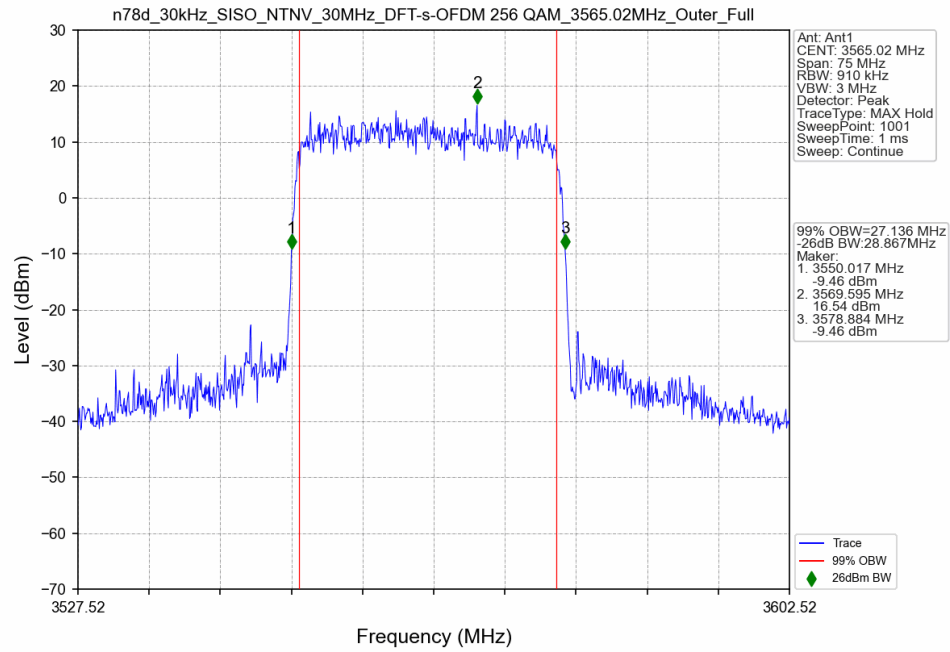
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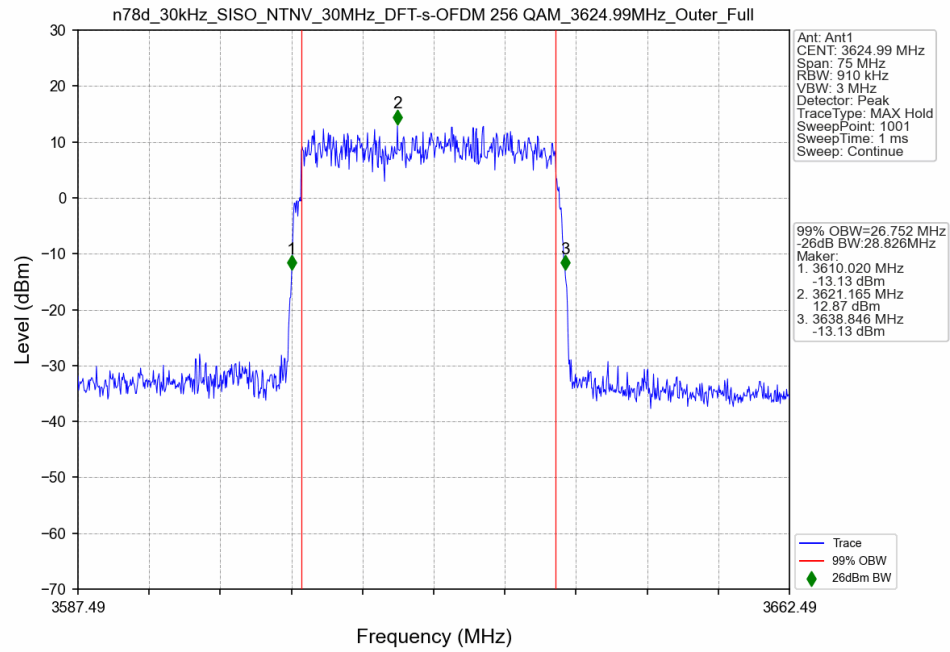
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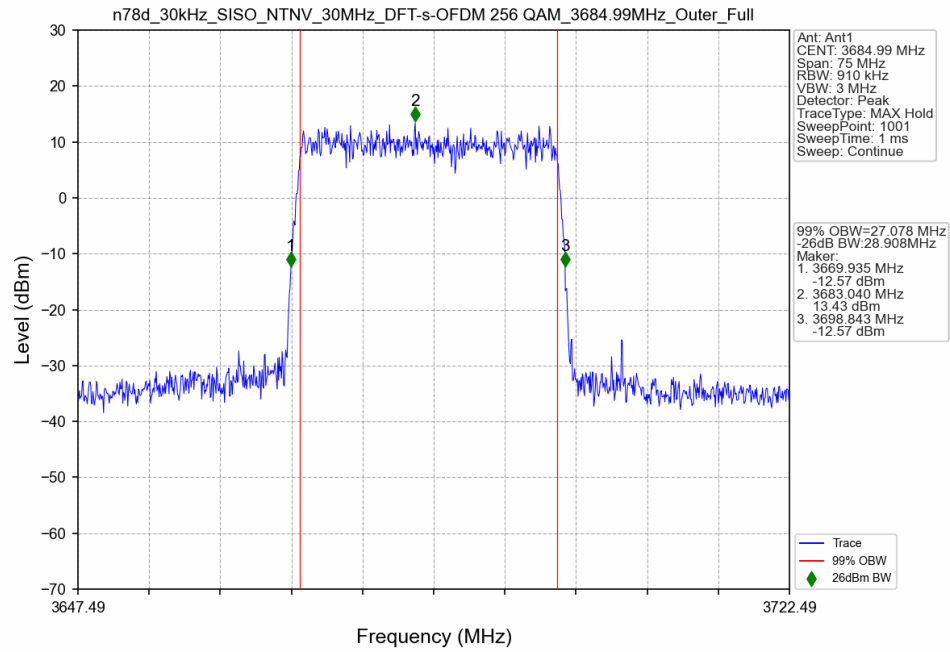
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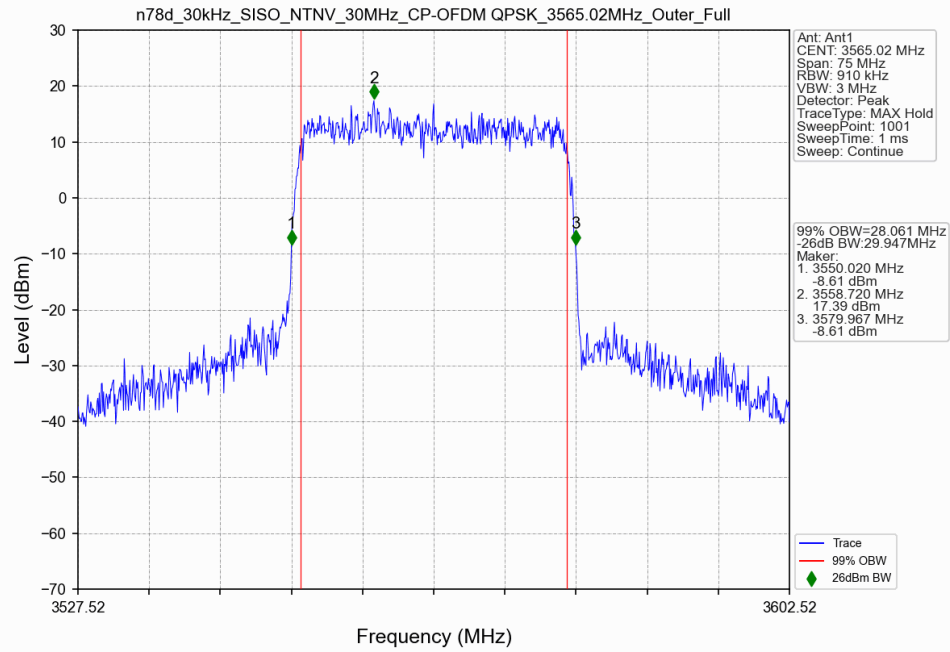
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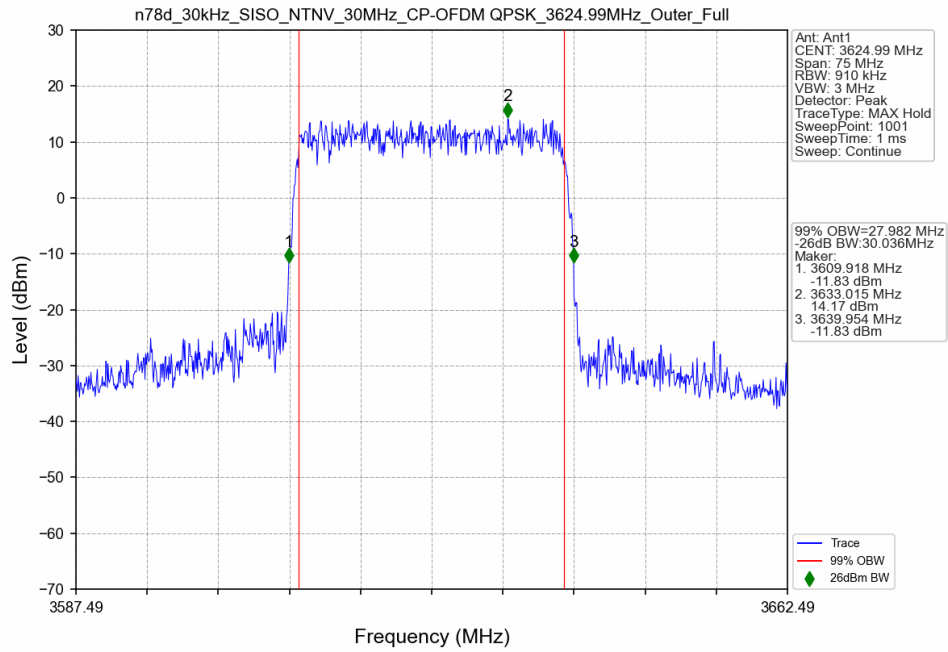
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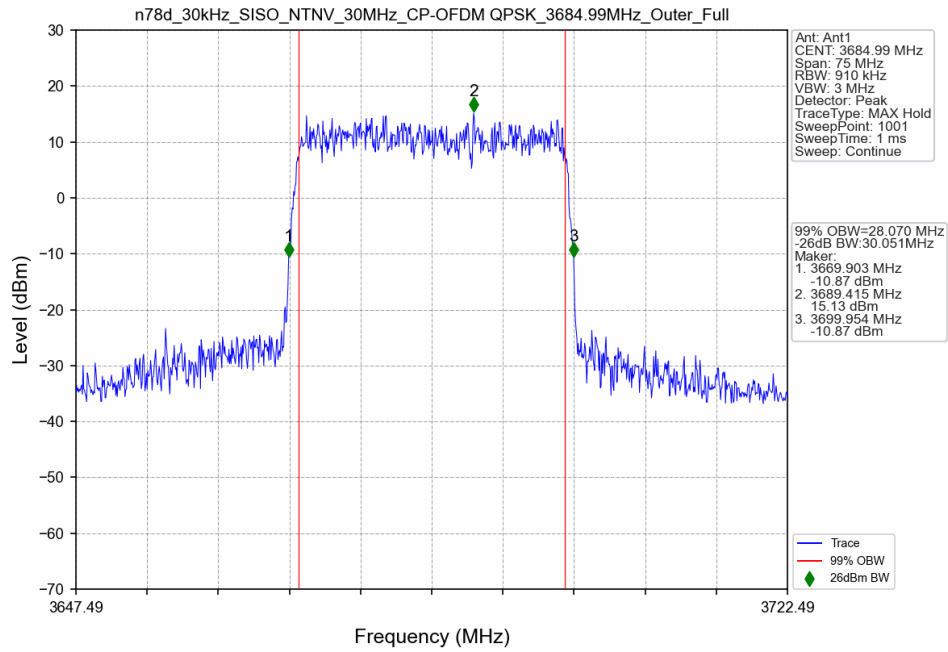
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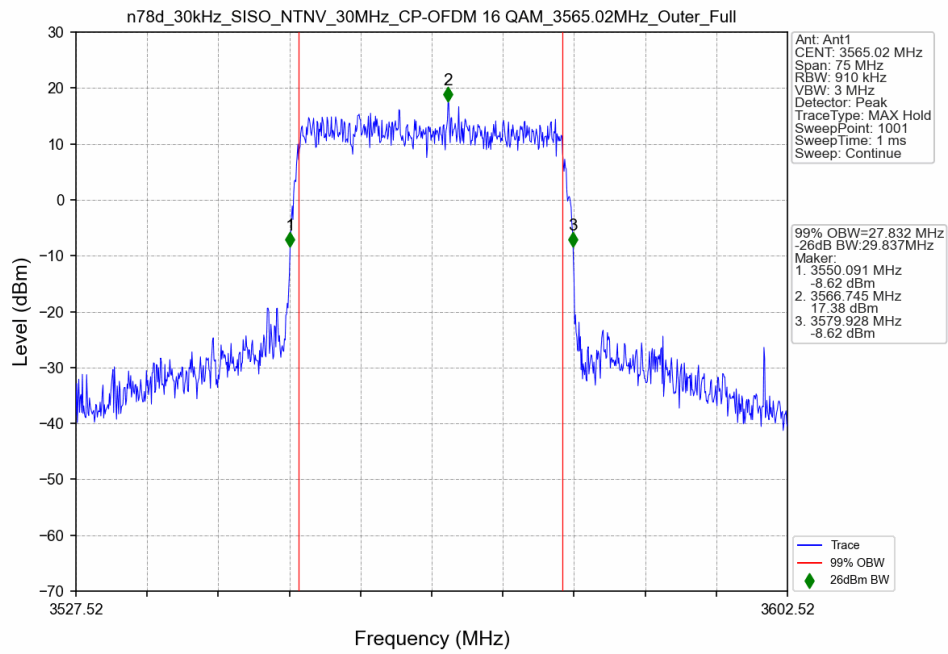
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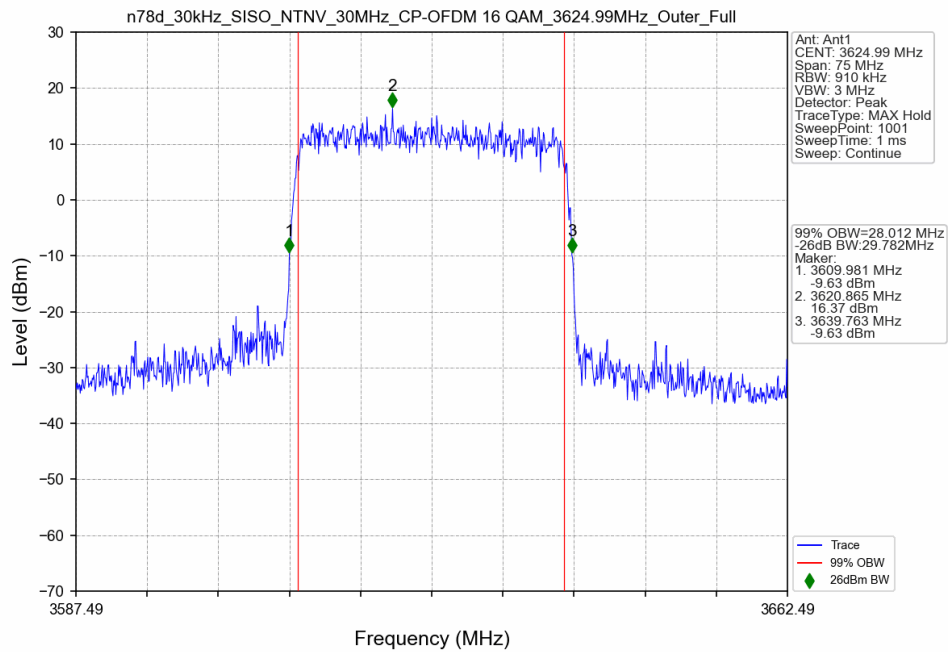
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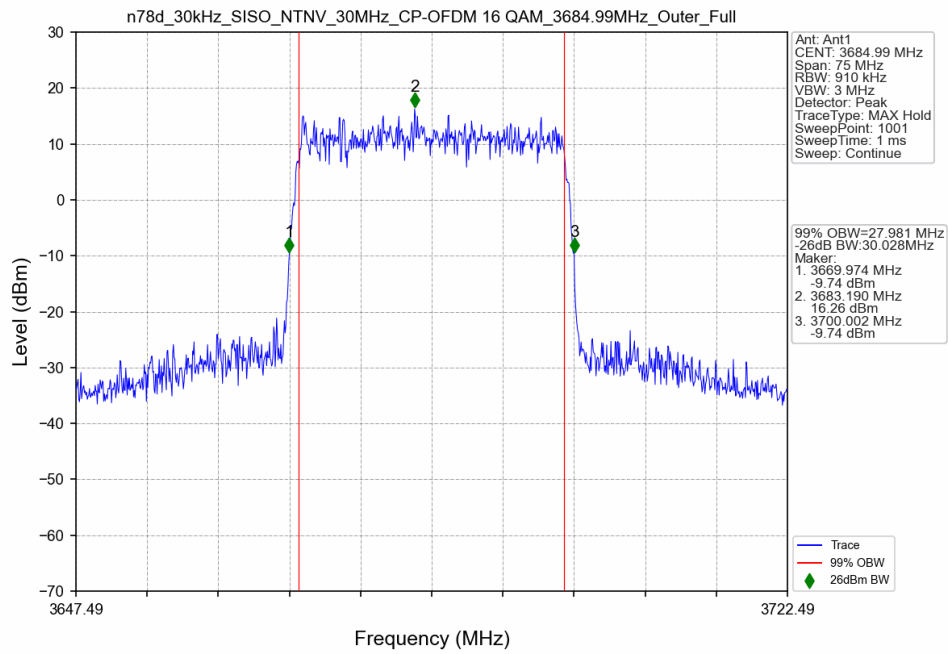
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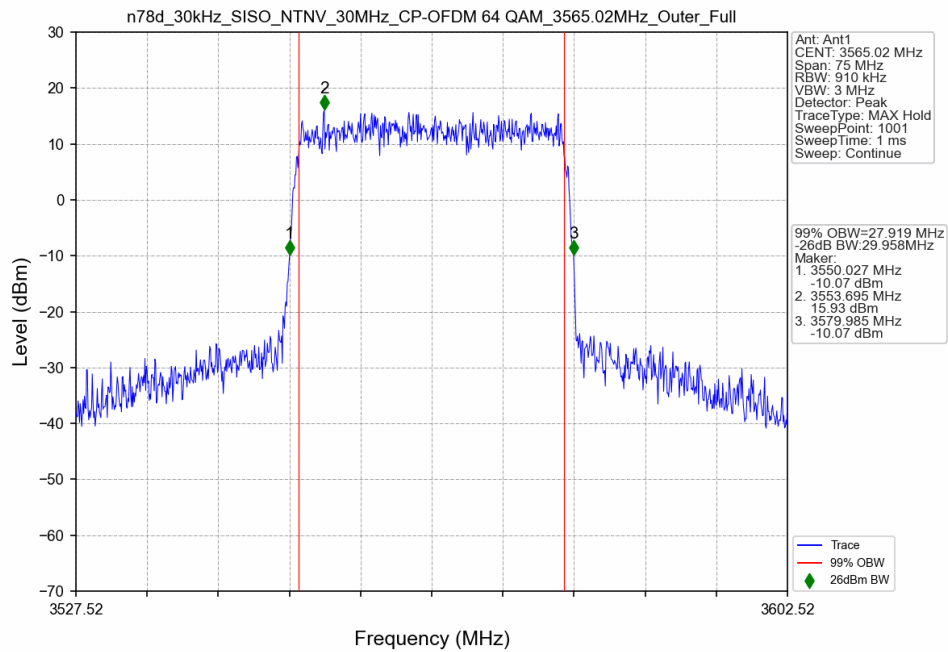
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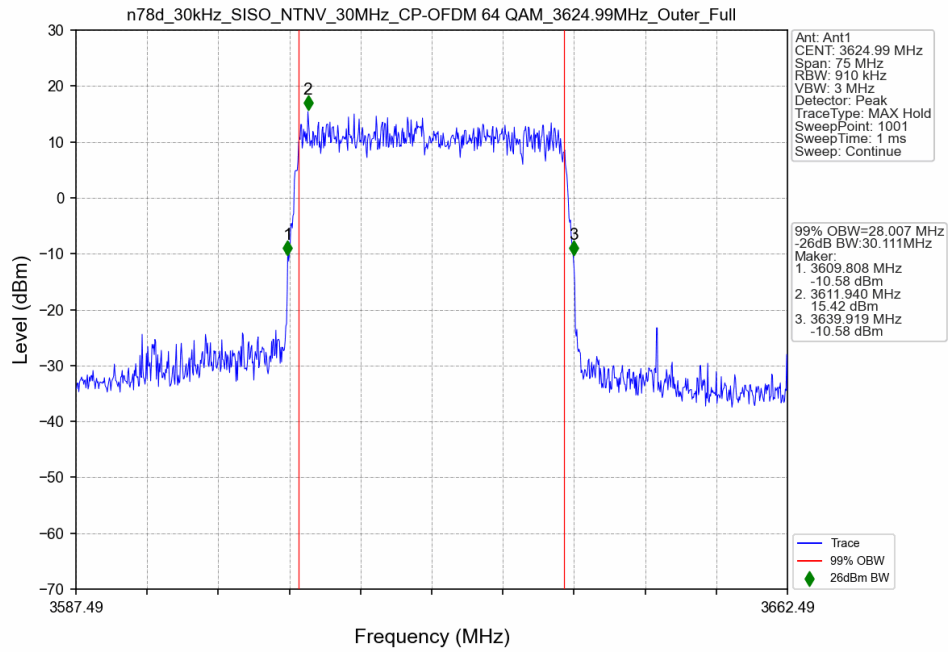
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n78d 30kHz SISO NTN 30MHz CP-OFDM 64 QAM 3565.02MHz Outer Full



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