

			-30	NV	-3.34	-0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	-7.74	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-9.07	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-4.57	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-3.41	-0.0009	>=-2.5 & <=2.5	Pass
			20	NV	4.19	0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-14.29	-0.0036	>=-2.5 & <=2.5	Pass
			40	NV	-4.15	-0.0011	>=-2.5 & <=2.5	Pass
			50	NV	3.46	0.0009	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3939.99	Outer_Full	20	LV	2.94	0.0007	>=-2.5 & <=2.5	Pass
				HV	-12.32	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-2.60	-0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	-12.97	-0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	-7.58	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	-5.18	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	4.83	0.0012	>=-2.5 & <=2.5	Pass
			20	NV	2.24	0.0006	>=-2.5 & <=2.5	Pass
			30	NV	-11.62	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-8.31	-0.0021	>=-2.5 & <=2.5	Pass
			50	NV	-6.36	-0.0016	>=-2.5 & <=2.5	Pass
			20	LV	5.17	0.0013	>=-2.5 & <=2.5	Pass
				HV	5.81	0.0015	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3939.99	Outer_Full	-30	NV	-4.64	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	0.69	0.0002	>=-2.5 & <=2.5	Pass
			-10	NV	-11.58	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	1.27	0.0003	>=-2.5 & <=2.5	Pass
			10	NV	-15.93	-0.0040	>=-2.5 & <=2.5	Pass
			20	NV	3.67	0.0009	>=-2.5 & <=2.5	Pass
			30	NV	-23.37	-0.0059	>=-2.5 & <=2.5	Pass
			40	NV	-13.40	-0.0034	>=-2.5 & <=2.5	Pass
			50	NV	-2.07	-0.0005	>=-2.5 & <=2.5	Pass
			20	LV	-6.37	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-0.20	-0.0001	>=-2.5 & <=2.5	Pass
			-30	NV	-11.98	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-0.84	-0.0002	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3939.99	Outer_Full	-10	NV	9.54	0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-5.65	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	2.01	0.0005	>=-2.5 & <=2.5	Pass
			20	NV	4.98	0.0013	>=-2.5 & <=2.5	Pass
			30	NV	-15.08	-0.0038	>=-2.5 & <=2.5	Pass
			40	NV	-14.70	-0.0037	>=-2.5 & <=2.5	Pass
			50	NV	-12.85	-0.0033	>=-2.5 & <=2.5	Pass
			20	LV	-5.21	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-22.94	-0.0058	>=-2.5 & <=2.5	Pass
			-30	NV	-11.70	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-13.90	-0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	1.71	0.0004	>=-2.5 & <=2.5	Pass
			0	NV	-7.86	-0.0020	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3939.99	Outer_Full	10	NV	3.96	0.0010	>=-2.5 & <=2.5	Pass
			20	NV	-3.65	-0.0009	>=-2.5 & <=2.5	Pass
			30	NV	-9.04	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	-1.72	-0.0004	>=-2.5 & <=2.5	Pass
			50	NV	-1.62	-0.0004	>=-2.5 & <=2.5	Pass
			20	LV	6.50	0.0016	>=-2.5 & <=2.5	Pass
				HV	-6.69	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-6.60	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	2.26	0.0006	>=-2.5 & <=2.5	Pass
			-10	NV	0.52	0.0001	>=-2.5 & <=2.5	Pass
			0	NV	-3.63	-0.0009	>=-2.5 & <=2.5	Pass
			10	NV	7.68	0.0019	>=-2.5 & <=2.5	Pass
			20	NV	8.45	0.0021	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3939.99	Outer_Full	30	NV	-0.20	-0.0001	>=-2.5 & <=2.5	Pass

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CP-OFDM 256 QAM	3939.99	Outer_Full	40	NV	-11.79	-0.0030	>=-2.5 & <=2.5	Pass
			50	NV	-11.98	-0.0030	>=-2.5 & <=2.5	Pass
			20	LV	-9.81	-0.0025	>=-2.5 & <=2.5	Pass
				HV	2.95	0.0007	>=-2.5 & <=2.5	Pass
			-30	NV	6.39	0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	7.28	0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-3.19	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	-9.42	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	9.31	0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-2.16	-0.0005	>=-2.5 & <=2.5	Pass
			30	NV	-0.70	-0.0002	>=-2.5 & <=2.5	Pass
			40	NV	-10.21	-0.0026	>=-2.5 & <=2.5	Pass
			50	NV	4.89	0.0012	>=-2.5 & <=2.5	Pass

2.1.5 30_S_50M

5G NR n77h 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	3939.99	Outer_Full	20	LV	-6.67	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-2.15	-0.0005	>=-2.5 & <=2.5	Pass
			-30	NV	-8.11	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-0.69	-0.0002	>=-2.5 & <=2.5	Pass
			-10	NV	-5.89	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-13.64	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-6.74	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	-11.24	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-1.73	-0.0004	>=-2.5 & <=2.5	Pass
			40	NV	-2.40	-0.0006	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3939.99	Outer_Full	20	LV	-3.41	-0.0009	>=-2.5 & <=2.5	Pass
				HV	-1.01	-0.0003	>=-2.5 & <=2.5	Pass
			-30	NV	-7.63	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-3.97	-0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	2.85	0.0007	>=-2.5 & <=2.5	Pass
			0	NV	1.33	0.0003	>=-2.5 & <=2.5	Pass
			10	NV	2.91	0.0007	>=-2.5 & <=2.5	Pass
			20	NV	-7.71	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	-11.45	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-5.12	-0.0013	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3939.99	Outer_Full	20	LV	-9.34	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-15.89	-0.0040	>=-2.5 & <=2.5	Pass
			-30	NV	-16.20	-0.0041	>=-2.5 & <=2.5	Pass
			-20	NV	-8.39	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-22.52	-0.0057	>=-2.5 & <=2.5	Pass
			0	NV	-12.72	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	2.49	0.0006	>=-2.5 & <=2.5	Pass
			20	NV	-12.89	-0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-5.78	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-7.72	-0.0020	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3939.99	Outer_Full	20	LV	-5.82	-0.0015	>=-2.5 & <=2.5	Pass
				HV	-14.82	-0.0038	>=-2.5 & <=2.5	Pass
			-30	NV	-17.35	-0.0044	>=-2.5 & <=2.5	Pass
			-20	NV	-16.90	-0.0043	>=-2.5 & <=2.5	Pass
			-10	NV	5.81	0.0015	>=-2.5 & <=2.5	Pass
			0	NV	5.31	0.0013	>=-2.5 & <=2.5	Pass
			10	NV	-5.92	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-8.36	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-7.83	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-0.32	-0.0001	>=-2.5 & <=2.5	Pass

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			50	NV	-10.63	-0.0027	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3939.99	Outer_Full	20	LV	-4.77	-0.0012	>=-2.5 & <=2.5	Pass
				HV	-7.52	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-17.21	-0.0044	>=-2.5 & <=2.5	Pass
			-20	NV	-7.29	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	2.97	0.0008	>=-2.5 & <=2.5	Pass
			0	NV	-3.69	-0.0009	>=-2.5 & <=2.5	Pass
			10	NV	-4.49	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-3.71	-0.0009	>=-2.5 & <=2.5	Pass
			30	NV	-23.42	-0.0059	>=-2.5 & <=2.5	Pass
			40	NV	-15.88	-0.0040	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3939.99	Outer_Full	20	LV	-2.66	-0.0007	>=-2.5 & <=2.5	Pass
				HV	-8.55	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-11.81	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-16.14	-0.0041	>=-2.5 & <=2.5	Pass
			-10	NV	-5.33	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-4.27	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-9.17	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-4.49	-0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-6.55	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-3.66	-0.0009	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3939.99	Outer_Full	20	LV	-2.92	-0.0007	>=-2.5 & <=2.5	Pass
				HV	-18.30	-0.0046	>=-2.5 & <=2.5	Pass
			-30	NV	-14.73	-0.0037	>=-2.5 & <=2.5	Pass
			-20	NV	-2.62	-0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	-8.30	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	3.24	0.0008	>=-2.5 & <=2.5	Pass
			10	NV	-10.13	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	13.11	0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-2.24	-0.0006	>=-2.5 & <=2.5	Pass
			40	NV	-10.38	-0.0026	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3939.99	Outer_Full	20	LV	-1.45	-0.0004	>=-2.5 & <=2.5	Pass
				HV	-11.26	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-2.92	-0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	-15.31	-0.0039	>=-2.5 & <=2.5	Pass
			-10	NV	-9.26	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	8.09	0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-17.42	-0.0044	>=-2.5 & <=2.5	Pass
			20	NV	5.32	0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-12.98	-0.0033	>=-2.5 & <=2.5	Pass
			40	NV	-4.84	-0.0012	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3939.99	Outer_Full	20	LV	-11.90	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-3.52	-0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	-6.08	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-10.52	-0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	0.74	0.0002	>=-2.5 & <=2.5	Pass
			0	NV	-7.50	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	5.39	0.0014	>=-2.5 & <=2.5	Pass
			20	NV	7.25	0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-4.96	-0.0013	>=-2.5 & <=2.5	Pass
			40	NV	11.50	0.0029	>=-2.5 & <=2.5	Pass
			50	NV	-1.81	-0.0005	>=-2.5 & <=2.5	Pass



2.1.6 30_S_60M

5G NR n77h SCS=30kHz SISO 60MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	

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DFT-s-OFDM PI/2 BPSK	3939.99	Outer_Full	20	LV	-4.71	-0.0012	>=-2.5 & <=2.5	Pass
				HV	-15.26	-0.0039	>=-2.5 & <=2.5	Pass
			-30	NV	-10.79	-0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	-7.37	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-8.99	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-1.11	-0.0003	>=-2.5 & <=2.5	Pass
			10	NV	-12.40	-0.0031	>=-2.5 & <=2.5	Pass
			20	NV	4.00	0.0010	>=-2.5 & <=2.5	Pass
			30	NV	-3.88	-0.0010	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3939.99	Outer_Full	40	NV	-5.20	-0.0013	>=-2.5 & <=2.5	Pass
			50	NV	-4.11	-0.0010	>=-2.5 & <=2.5	Pass
			20	LV	-5.78	-0.0015	>=-2.5 & <=2.5	Pass
				HV	-4.26	-0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	-8.81	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-2.05	-0.0005	>=-2.5 & <=2.5	Pass
			-10	NV	-8.75	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	1.72	0.0004	>=-2.5 & <=2.5	Pass
			10	NV	-5.23	-0.0013	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3939.99	Outer_Full	20	NV	-3.42	-0.0009	>=-2.5 & <=2.5	Pass
			30	NV	-8.05	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-1.48	-0.0004	>=-2.5 & <=2.5	Pass
			50	NV	-17.28	-0.0044	>=-2.5 & <=2.5	Pass
			20	LV	-7.86	-0.0020	>=-2.5 & <=2.5	Pass
				HV	-3.28	-0.0008	>=-2.5 & <=2.5	Pass
			-30	NV	-6.61	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-0.37	-0.0001	>=-2.5 & <=2.5	Pass
			-10	NV	1.65	0.0004	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3939.99	Outer_Full	0	NV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
			10	NV	-3.95	-0.0010	>=-2.5 & <=2.5	Pass
			20	NV	-6.99	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-1.43	-0.0004	>=-2.5 & <=2.5	Pass
			40	NV	-8.83	-0.0022	>=-2.5 & <=2.5	Pass
			50	NV	-6.82	-0.0017	>=-2.5 & <=2.5	Pass
			20	LV	-9.98	-0.0025	>=-2.5 & <=2.5	Pass
				HV	-5.02	-0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	-13.95	-0.0035	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3939.99	Outer_Full	-20	NV	0.31	0.0001	>=-2.5 & <=2.5	Pass
			-10	NV	-11.62	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-9.01	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-2.55	-0.0006	>=-2.5 & <=2.5	Pass
			20	NV	9.53	0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-1.67	-0.0004	>=-2.5 & <=2.5	Pass
			40	NV	-23.67	-0.0060	>=-2.5 & <=2.5	Pass
			50	NV	-11.63	-0.0030	>=-2.5 & <=2.5	Pass
			20	LV	-23.35	-0.0059	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3939.99	Outer_Full		HV	-0.38	-0.0001	>=-2.5 & <=2.5	Pass
			-30	NV	-14.15	-0.0036	>=-2.5 & <=2.5	Pass
			-20	NV	2.78	0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	0.87	0.0002	>=-2.5 & <=2.5	Pass
			0	NV	-19.12	-0.0049	>=-2.5 & <=2.5	Pass
			10	NV	-6.44	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-5.77	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	1.26	0.0003	>=-2.5 & <=2.5	Pass
			40	NV	0.49	0.0001	>=-2.5 & <=2.5	Pass
			50	NV	-8.17	-0.0021	>=-2.5 & <=2.5	Pass
			20	LV	-3.13	-0.0008	>=-2.5 & <=2.5	Pass
				HV	-3.22	-0.0008	>=-2.5 & <=2.5	Pass
			-30	NV	-5.06	-0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-9.40	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-14.29	-0.0036	>=-2.5 & <=2.5	Pass
			0	NV	-10.22	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-22.11	-0.0056	>=-2.5 & <=2.5	Pass



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			20	NV	-15.30	-0.0039	>=-2.5 & <=2.5	Pass
			30	NV	2.95	0.0007	>=-2.5 & <=2.5	Pass
			40	NV	-13.43	-0.0034	>=-2.5 & <=2.5	Pass
			50	NV	-9.58	-0.0024	>=-2.5 & <=2.5	Pass
			20	LV	-8.26	-0.0021	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3939.99	Outer_Full		HV	-0.54	-0.0001	>=-2.5 & <=2.5	Pass
			-30	NV	-5.89	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-21.02	-0.0053	>=-2.5 & <=2.5	Pass
			-10	NV	-5.35	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-11.43	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-3.99	-0.0010	>=-2.5 & <=2.5	Pass
			20	NV	4.46	0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-4.24	-0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-8.16	-0.0021	>=-2.5 & <=2.5	Pass
			50	NV	8.26	0.0021	>=-2.5 & <=2.5	Pass
			20	LV	-0.28	-0.0001	>=-2.5 & <=2.5	Pass
				HV	-11.15	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-4.19	-0.0011	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3939.99	Outer_Full	-20	NV	-8.47	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-10.75	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-19.03	-0.0048	>=-2.5 & <=2.5	Pass
			10	NV	-7.33	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-8.33	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-3.85	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	-9.09	-0.0023	>=-2.5 & <=2.5	Pass
			50	NV	-8.47	-0.0021	>=-2.5 & <=2.5	Pass
			20	LV	-23.63	-0.0060	>=-2.5 & <=2.5	Pass
				HV	-2.68	-0.0007	>=-2.5 & <=2.5	Pass
			-30	NV	-11.48	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-7.46	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-5.07	-0.0013	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3939.99	Outer_Full	0	NV	-6.48	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	2.17	0.0006	>=-2.5 & <=2.5	Pass
			20	NV	-3.74	-0.0009	>=-2.5 & <=2.5	Pass
			30	NV	8.49	0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-4.73	-0.0012	>=-2.5 & <=2.5	Pass
			50	NV	-4.79	-0.0012	>=-2.5 & <=2.5	Pass

2.1.7 30_S_70M

5G NR n77h 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	3939.99	Outer_Full	20	LV	-8.96	-0.0023	>=-2.5 & <=2.5	Pass
				HV	4.67	0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	4.15	0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	-2.72	-0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	3.76	0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-9.93	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	2.02	0.0005	>=-2.5 & <=2.5	Pass
			20	NV	-6.34	-0.0016	>=-2.5 & <=2.5	Pass
			30	NV	-4.49	-0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-17.51	-0.0044	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3939.99	Outer_Full	50	NV	-4.06	-0.0010	>=-2.5 & <=2.5	Pass
			20	LV	-11.25	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-27.91	-0.0071	>=-2.5 & <=2.5	Pass
			-30	NV	-12.26	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-11.26	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-11.63	-0.0030	>=-2.5 & <=2.5	Pass
			0	NV	-6.78	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-10.79	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-4.89	-0.0012	>=-2.5 & <=2.5	Pass

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			30	NV	-16.42	-0.0042	>=-2.5 & <=2.5	Pass
			40	NV	-11.75	-0.0030	>=-2.5 & <=2.5	Pass
			50	NV	1.34	0.0003	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3939.99	Outer_Full	20	LV	0.16	0.0000	>=-2.5 & <=2.5	Pass
				HV	-7.50	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-18.15	-0.0046	>=-2.5 & <=2.5	Pass
			-20	NV	-17.22	-0.0044	>=-2.5 & <=2.5	Pass
			-10	NV	-6.84	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	-7.60	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-24.14	-0.0061	>=-2.5 & <=2.5	Pass
			20	NV	-20.70	-0.0053	>=-2.5 & <=2.5	Pass
			30	NV	-12.25	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-8.64	-0.0022	>=-2.5 & <=2.5	Pass
			50	NV	-10.21	-0.0026	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3939.99	Outer_Full	20	LV	-6.27	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-0.98	-0.0002	>=-2.5 & <=2.5	Pass
			-30	NV	-10.03	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-13.60	-0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	-10.60	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	0.17	0.0000	>=-2.5 & <=2.5	Pass
			10	NV	-8.60	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-13.57	-0.0034	>=-2.5 & <=2.5	Pass
			30	NV	-0.96	-0.0002	>=-2.5 & <=2.5	Pass
			40	NV	-10.11	-0.0026	>=-2.5 & <=2.5	Pass
			50	NV	-4.88	-0.0012	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3939.99	Outer_Full	20	LV	8.02	0.0020	>=-2.5 & <=2.5	Pass
				HV	-21.12	-0.0054	>=-2.5 & <=2.5	Pass
			-30	NV	-17.44	-0.0044	>=-2.5 & <=2.5	Pass
			-20	NV	-10.90	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-7.14	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-5.48	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-7.56	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	4.59	0.0012	>=-2.5 & <=2.5	Pass
			30	NV	-14.41	-0.0037	>=-2.5 & <=2.5	Pass
			40	NV	2.46	0.0006	>=-2.5 & <=2.5	Pass
			50	NV	-4.87	-0.0012	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3939.99	Outer_Full	20	LV	-9.30	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-8.45	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-8.09	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-1.79	-0.0005	>=-2.5 & <=2.5	Pass
			-10	NV	-2.07	-0.0005	>=-2.5 & <=2.5	Pass
			0	NV	-2.20	-0.0006	>=-2.5 & <=2.5	Pass
			10	NV	-4.35	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-6.56	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-4.74	-0.0012	>=-2.5 & <=2.5	Pass
			40	NV	0.72	0.0002	>=-2.5 & <=2.5	Pass
			50	NV	-5.53	-0.0014	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3939.99	Outer_Full	20	LV	-3.89	-0.0010	>=-2.5 & <=2.5	Pass
				HV	-7.03	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	1.22	0.0003	>=-2.5 & <=2.5	Pass
			-20	NV	4.14	0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	3.40	0.0009	>=-2.5 & <=2.5	Pass
			0	NV	-14.80	-0.0038	>=-2.5 & <=2.5	Pass
			10	NV	1.23	0.0003	>=-2.5 & <=2.5	Pass
			20	NV	-5.98	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-11.62	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-4.96	-0.0013	>=-2.5 & <=2.5	Pass
			50	NV	1.41	0.0004	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3939.99	Outer_Full	20	LV	-9.22	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-13.92	-0.0035	>=-2.5 & <=2.5	Pass
			-30	NV	-14.98	-0.0038	>=-2.5 & <=2.5	Pass
			-20	NV	-5.03	-0.0013	>=-2.5 & <=2.5	Pass



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			-10	NV	-3.66	-0.0009	>=-2.5 & <=2.5	Pass
			0	NV	-5.16	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	-7.61	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	3.26	0.0008	>=-2.5 & <=2.5	Pass
			30	NV	-19.08	-0.0048	>=-2.5 & <=2.5	Pass
			40	NV	-6.38	-0.0016	>=-2.5 & <=2.5	Pass
			50	NV	-11.44	-0.0029	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3939.99	Outer_Full	20	LV	-4.66	-0.0012	>=-2.5 & <=2.5	Pass
				HV	-14.83	-0.0038	>=-2.5 & <=2.5	Pass
			-30	NV	-3.71	-0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	0.53	0.0001	>=-2.5 & <=2.5	Pass
			-10	NV	11.64	0.0030	>=-2.5 & <=2.5	Pass
			0	NV	-2.57	-0.0007	>=-2.5 & <=2.5	Pass
			10	NV	-6.04	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-0.70	-0.0002	>=-2.5 & <=2.5	Pass
			30	NV	1.19	0.0003	>=-2.5 & <=2.5	Pass
			40	NV	-18.95	-0.0048	>=-2.5 & <=2.5	Pass
			50	NV	-11.13	-0.0028	>=-2.5 & <=2.5	Pass

2.1.8 30_S_80M

5G NR n77h 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	3939.99	Outer_Full	20	LV	-11.55	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-906.59	-0.2301	>=-2.5 & <=2.5	Pass
			-30	NV	736.04	0.1868	>=-2.5 & <=2.5	Pass
			-20	NV	551.92	0.1401	>=-2.5 & <=2.5	Pass
			-10	NV	564.48	0.1433	>=-2.5 & <=2.5	Pass
			0	NV	21.67	0.0055	>=-2.5 & <=2.5	Pass
			10	NV	245.52	0.0623	>=-2.5 & <=2.5	Pass
			20	NV	-636.52	-0.1616	>=-2.5 & <=2.5	Pass
			30	NV	-234.73	-0.0596	>=-2.5 & <=2.5	Pass
			40	NV	-452.17	-0.1148	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3939.99	Outer_Full	20	LV	-9.59	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-12.75	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-14.62	-0.0037	>=-2.5 & <=2.5	Pass
			-20	NV	-7.12	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-15.59	-0.0040	>=-2.5 & <=2.5	Pass
			0	NV	-6.52	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-17.52	-0.0044	>=-2.5 & <=2.5	Pass
			20	NV	-10.14	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-3.68	-0.0009	>=-2.5 & <=2.5	Pass
			40	NV	-12.11	-0.0031	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3939.99	Outer_Full	20	LV	-6.84	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-13.13	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-22.93	-0.0058	>=-2.5 & <=2.5	Pass
			-20	NV	-11.66	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-7.24	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-13.65	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-13.69	-0.0035	>=-2.5 & <=2.5	Pass
			20	NV	-6.05	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-4.20	-0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-29.76	-0.0076	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3939.99	Outer_Full	20	LV	-16.56	-0.0042	>=-2.5 & <=2.5	Pass
				HV	-15.61	-0.0040	>=-2.5 & <=2.5	Pass
			-30	NV	-10.59	-0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	-7.61	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-8.69	-0.0022	>=-2.5 & <=2.5	Pass

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			0	NV	-4.63	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-12.99	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-16.12	-0.0041	>=-2.5 & <=2.5	Pass
			30	NV	-14.69	-0.0037	>=-2.5 & <=2.5	Pass
			40	NV	-7.74	-0.0020	>=-2.5 & <=2.5	Pass
			50	NV	-4.98	-0.0013	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3939.99	Outer_Full	20	LV	-0.74	-0.0002	>=-2.5 & <=2.5	Pass
				HV	-7.09	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-13.54	-0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	5.42	0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-15.44	-0.0039	>=-2.5 & <=2.5	Pass
			0	NV	-12.46	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-5.29	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	0.12	0.0000	>=-2.5 & <=2.5	Pass
			30	NV	-4.88	-0.0012	>=-2.5 & <=2.5	Pass
			40	NV	-10.96	-0.0028	>=-2.5 & <=2.5	Pass
			50	NV	-11.12	-0.0028	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3939.99	Outer_Full	20	LV	-5.66	-0.0014	>=-2.5 & <=2.5	Pass
				HV	-10.29	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-2.19	-0.0006	>=-2.5 & <=2.5	Pass
			-20	NV	-15.56	-0.0039	>=-2.5 & <=2.5	Pass
			-10	NV	-1.83	-0.0005	>=-2.5 & <=2.5	Pass
			0	NV	-7.39	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-11.41	-0.0029	>=-2.5 & <=2.5	Pass
			20	NV	-8.03	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	-9.58	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-12.97	-0.0033	>=-2.5 & <=2.5	Pass
			50	NV	-6.86	-0.0017	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3939.99	Outer_Full	20	LV	-10.86	-0.0028	>=-2.5 & <=2.5	Pass
				HV	5.47	0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-5.68	-0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-17.36	-0.0044	>=-2.5 & <=2.5	Pass
			-10	NV	-13.69	-0.0035	>=-2.5 & <=2.5	Pass
			0	NV	-6.23	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-10.78	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-15.68	-0.0040	>=-2.5 & <=2.5	Pass
			30	NV	-1.80	-0.0005	>=-2.5 & <=2.5	Pass
			40	NV	-18.56	-0.0047	>=-2.5 & <=2.5	Pass
			50	NV	3.92	0.0010	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3939.99	Outer_Full	20	LV	4.07	0.0010	>=-2.5 & <=2.5	Pass
				HV	-5.20	-0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	-5.21	-0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-6.48	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-10.95	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	-11.48	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-4.07	-0.0010	>=-2.5 & <=2.5	Pass
			20	NV	-10.06	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-14.41	-0.0037	>=-2.5 & <=2.5	Pass
			40	NV	-25.29	-0.0064	>=-2.5 & <=2.5	Pass
			50	NV	-8.00	-0.0020	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3939.99	Outer_Full	20	LV	-11.62	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-3.46	-0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	-6.33	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-5.16	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-9.34	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-9.25	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-9.02	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-4.92	-0.0012	>=-2.5 & <=2.5	Pass
			30	NV	-10.24	-0.0026	>=-2.5 & <=2.5	Pass
			40	NV	-1.74	-0.0004	>=-2.5 & <=2.5	Pass
			50	NV	-12.79	-0.0032	>=-2.5 & <=2.5	Pass

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3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 30_S_10M_NTNV

5G NR n77h SCS=30kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3905.01	Outer_Full	8.57	9.24	/	Pass
	3939.99	Outer_Full	8.59	9.47	/	Pass
	3975	Outer_Full	8.60	9.36	/	Pass
DFT-s-OFDM QPSK	3905.01	Outer_Full	8.56	9.63	/	Pass
	3939.99	Outer_Full	8.54	9.81	/	Pass
	3975	Outer_Full	8.56	9.65	/	Pass
DFT-s-OFDM 16 QAM	3905.01	Outer_Full	8.55	9.40	/	Pass
	3939.99	Outer_Full	8.55	9.76	/	Pass
	3975	Outer_Full	8.51	9.78	/	Pass
DFT-s-OFDM 64 QAM	3905.01	Outer_Full	8.54	9.39	/	Pass
	3939.99	Outer_Full	8.61	9.39	/	Pass
	3975	Outer_Full	8.54	9.32	/	Pass
DFT-s-OFDM 256 QAM	3905.01	Outer_Full	8.61	9.35	/	Pass
	3939.99	Outer_Full	8.58	9.37	/	Pass
	3975	Outer_Full	8.54	9.58	/	Pass
CP-OFDM QPSK	3905.01	Outer_Full	8.60	9.70	/	Pass
	3939.99	Outer_Full	8.55	9.51	/	Pass
	3975	Outer_Full	8.56	9.23	/	Pass
CP-OFDM 16 QAM	3905.01	Outer_Full	8.59	9.39	/	Pass
	3939.99	Outer_Full	8.56	9.49	/	Pass
	3975	Outer_Full	8.56	9.44	/	Pass
CP-OFDM 64 QAM	3905.01	Outer_Full	8.61	9.30	/	Pass
	3939.99	Outer_Full	8.53	9.65	/	Pass
	3975	Outer_Full	8.61	9.50	/	Pass
CP-OFDM 256 QAM	3905.01	Outer_Full	8.56	9.39	/	Pass
	3939.99	Outer_Full	8.59	9.47	/	Pass
	3975	Outer_Full	8.59	9.13	/	Pass

3.1.2 30_S_20M_NTNV

5G NR n77h SCS=30kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3910.02	Outer_Full	17.83	18.85	/	Pass
	3939.99	Outer_Full	17.89	18.79	/	Pass
	3969.99	Outer_Full	17.88	18.80	/	Pass
DFT-s-OFDM QPSK	3910.02	Outer_Full	17.81	18.85	/	Pass
	3939.99	Outer_Full	17.76	18.68	/	Pass
	3969.99	Outer_Full	17.79	18.87	/	Pass
DFT-s-OFDM 16 QAM	3910.02	Outer_Full	17.89	19.02	/	Pass
	3939.99	Outer_Full	17.76	18.87	/	Pass
	3969.99	Outer_Full	17.82	18.86	/	Pass
DFT-s-OFDM 64 QAM	3910.02	Outer_Full	17.79	18.80	/	Pass
	3939.99	Outer_Full	17.81	19.11	/	Pass
	3969.99	Outer_Full	17.69	19.19	/	Pass
DFT-s-OFDM 256 QAM	3910.02	Outer_Full	17.91	18.67	/	Pass
	3939.99	Outer_Full	17.89	18.83	/	Pass
	3969.99	Outer_Full	17.72	18.86	/	Pass
CP-OFDM QPSK	3910.02	Outer_Full	18.14	19.09	/	Pass
	3939.99	Outer_Full	18.22	18.88	/	Pass
	3969.99	Outer_Full	18.18	19.08	/	Pass

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CP-OFDM 16 QAM	3910.02	Outer_Full	18.22	19.09	/	Pass
	3939.99	Outer_Full	18.28	19.84	/	Pass
	3969.99	Outer_Full	18.17	19.29	/	Pass
CP-OFDM 64 QAM	3910.02	Outer_Full	18.24	19.49	/	Pass
	3939.99	Outer_Full	18.26	19.39	/	Pass
	3969.99	Outer_Full	18.30	19.19	/	Pass
CP-OFDM 256 QAM	3910.02	Outer_Full	18.16	18.90	/	Pass
	3939.99	Outer_Full	18.19	18.99	/	Pass
	3969.99	Outer_Full	18.27	19.03	/	Pass

3.1.3 30_S_30M_NTNV

5G NR n77h SCS=30kHz SISO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3915	Outer_Full	26.82	27.98	/	Pass
	3939.99	Outer_Full	26.82	27.99	/	Pass
	3964.98	Outer_Full	26.75	28.52	/	Pass
DFT-s-OFDM QPSK	3915	Outer_Full	26.82	28.29	/	Pass
	3939.99	Outer_Full	26.91	28.26	/	Pass
	3964.98	Outer_Full	26.83	27.74	/	Pass
DFT-s-OFDM 16 QAM	3915	Outer_Full	26.59	28.21	/	Pass
	3939.99	Outer_Full	26.74	28.16	/	Pass
	3964.98	Outer_Full	26.69	28.17	/	Pass
DFT-s-OFDM 64 QAM	3915	Outer_Full	26.70	28.24	/	Pass
	3939.99	Outer_Full	26.72	27.86	/	Pass
	3964.98	Outer_Full	26.82	27.82	/	Pass
DFT-s-OFDM 256 QAM	3915	Outer_Full	26.60	27.91	/	Pass
	3939.99	Outer_Full	26.75	27.76	/	Pass
	3964.98	Outer_Full	26.85	27.79	/	Pass
CP-OFDM QPSK	3915	Outer_Full	27.75	28.98	/	Pass
	3939.99	Outer_Full	27.77	28.84	/	Pass
	3964.98	Outer_Full	27.89	29.13	/	Pass
CP-OFDM 16 QAM	3915	Outer_Full	27.87	28.89	/	Pass
	3939.99	Outer_Full	27.88	29.50	/	Pass
	3964.98	Outer_Full	27.84	29.18	/	Pass
CP-OFDM 64 QAM	3915	Outer_Full	27.97	29.07	/	Pass
	3939.99	Outer_Full	27.93	28.95	/	Pass
	3964.98	Outer_Full	28.05	28.72	/	Pass
CP-OFDM 256 QAM	3915	Outer_Full	27.69	29.18	/	Pass
	3939.99	Outer_Full	27.86	28.95	/	Pass
	3964.98	Outer_Full	27.46	28.91	/	Pass

3.1.4 30_S_40M_NTNV

5G NR n77h SCS=30kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3920.01	Outer_Full	35.92	38.14	/	Pass
	3939.99	Outer_Full	35.94	38.33	/	Pass
	3960	Outer_Full	36.06	38.68	/	Pass
DFT-s-OFDM QPSK	3920.01	Outer_Full	36.02	37.76	/	Pass
	3939.99	Outer_Full	36.18	38.22	/	Pass
	3960	Outer_Full	36.19	38.19	/	Pass
DFT-s-OFDM 16 QAM	3920.01	Outer_Full	35.99	38.04	/	Pass
	3939.99	Outer_Full	36.02	38.30	/	Pass
	3960	Outer_Full	35.99	37.94	/	Pass
DFT-s-OFDM 64 QAM	3920.01	Outer_Full	36.09	37.76	/	Pass
	3939.99	Outer_Full	35.88	38.31	/	Pass
	3960	Outer_Full	35.77	38.01	/	Pass
DFT-s-OFDM 256 QAM	3920.01	Outer_Full	35.89	38.04	/	Pass

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	3939.99	Outer_Full	36.19	37.99	/	Pass
	3960	Outer_Full	35.88	38.25	/	Pass
	3920.01	Outer_Full	38.14	40.38	/	Pass
CP-OFDM QPSK	3939.99	Outer_Full	38.07	40.26	/	Pass
	3960	Outer_Full	37.96	40.35	/	Pass
	3920.01	Outer_Full	37.93	40.21	/	Pass
CP-OFDM 16 QAM	3939.99	Outer_Full	38.14	40.16	/	Pass
	3960	Outer_Full	38.21	40.36	/	Pass
	3920.01	Outer_Full	38.02	40.37	/	Pass
CP-OFDM 64 QAM	3939.99	Outer_Full	37.96	40.50	/	Pass
	3960	Outer_Full	37.89	40.24	/	Pass
	3920.01	Outer_Full	37.98	40.37	/	Pass
CP-OFDM 256 QAM	3939.99	Outer_Full	38.07	40.35	/	Pass
	3960	Outer_Full	37.89	40.22	/	Pass
	3920.01	Outer_Full	37.98	40.37	/	Pass

3.1.5 30_S_50M_NTNV

5G NR n77h SCS=30kHz SISO 50MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3925.02	Outer_Full	45.85	48.47	/	Pass
	3939.99	Outer_Full	45.91	48.50	/	Pass
	3954.99	Outer_Full	45.91	49.26	/	Pass
DFT-s-OFDM QPSK	3925.02	Outer_Full	45.79	48.26	/	Pass
	3939.99	Outer_Full	45.89	47.98	/	Pass
	3954.99	Outer_Full	45.67	47.99	/	Pass
DFT-s-OFDM 16 QAM	3925.02	Outer_Full	46.02	48.17	/	Pass
	3939.99	Outer_Full	45.88	48.23	/	Pass
	3954.99	Outer_Full	45.56	47.97	/	Pass
DFT-s-OFDM 64 QAM	3925.02	Outer_Full	45.83	48.29	/	Pass
	3939.99	Outer_Full	45.71	48.04	/	Pass
	3954.99	Outer_Full	45.88	48.51	/	Pass
DFT-s-OFDM 256 QAM	3925.02	Outer_Full	45.62	48.05	/	Pass
	3939.99	Outer_Full	45.39	48.08	/	Pass
	3954.99	Outer_Full	45.74	48.16	/	Pass
CP-OFDM QPSK	3925.02	Outer_Full	47.60	49.86	/	Pass
	3939.99	Outer_Full	47.73	50.00	/	Pass
	3954.99	Outer_Full	47.50	49.84	/	Pass
CP-OFDM 16 QAM	3925.02	Outer_Full	47.66	50.05	/	Pass
	3939.99	Outer_Full	47.74	49.88	/	Pass
	3954.99	Outer_Full	47.63	49.19	/	Pass
CP-OFDM 64 QAM	3925.02	Outer_Full	47.66	50.04	/	Pass
	3939.99	Outer_Full	47.59	49.92	/	Pass
	3954.99	Outer_Full	47.59	49.95	/	Pass
CP-OFDM 256 QAM	3925.02	Outer_Full	47.43	50.06	/	Pass
	3939.99	Outer_Full	47.20	49.95	/	Pass
	3954.99	Outer_Full	47.94	49.95	/	Pass

3.1.6 30_S_60M_NTNV

5G NR n77h SCS=30kHz SISO 60MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3930	Outer_Full	57.72	60.36	/	Pass
	3939.99	Outer_Full	57.70	60.51	/	Pass
	3949.98	Outer_Full	58.05	60.56	/	Pass
DFT-s-OFDM QPSK	3930	Outer_Full	57.99	60.40	/	Pass
	3939.99	Outer_Full	57.73	60.28	/	Pass
	3949.98	Outer_Full	57.88	60.38	/	Pass
DFT-s-OFDM 16 QAM	3930	Outer_Full	57.97	60.47	/	Pass
	3939.99	Outer_Full	57.67	60.11	/	Pass

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	3949.98	Outer_Full	57.93	60.45	/	Pass
DFT-s-OFDM 64 QAM	3930	Outer_Full	58.07	60.76	/	Pass
	3939.99	Outer_Full	57.98	60.62	/	Pass
	3949.98	Outer_Full	57.72	60.43	/	Pass
DFT-s-OFDM 256 QAM	3930	Outer_Full	57.72	60.47	/	Pass
	3939.99	Outer_Full	57.93	60.26	/	Pass
	3949.98	Outer_Full	57.95	60.83	/	Pass
CP-OFDM QPSK	3930	Outer_Full	58.08	60.10	/	Pass
	3939.99	Outer_Full	57.94	60.37	/	Pass
	3949.98	Outer_Full	57.90	60.42	/	Pass
CP-OFDM 16 QAM	3930	Outer_Full	58.06	60.39	/	Pass
	3939.99	Outer_Full	58.02	60.49	/	Pass
	3949.98	Outer_Full	57.90	60.47	/	Pass
CP-OFDM 64 QAM	3930	Outer_Full	57.79	60.38	/	Pass
	3939.99	Outer_Full	57.94	60.44	/	Pass
	3949.98	Outer_Full	57.93	60.35	/	Pass
CP-OFDM 256 QAM	3930	Outer_Full	57.83	60.56	/	Pass
	3939.99	Outer_Full	57.94	60.50	/	Pass
	3949.98	Outer_Full	58.18	60.30	/	Pass

3.1.7 30_S_70M_NTNV

5G NR n77h SCS=30kHz SISO 70MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3935.01	Outer_Full	64.20	67.01	/	Pass
	3939.99	Outer_Full	64.05	66.98	/	Pass
	3945	Outer_Full	64.14	66.98	/	Pass
DFT-s-OFDM QPSK	3935.01	Outer_Full	64.52	67.00	/	Pass
	3939.99	Outer_Full	64.00	67.08	/	Pass
	3945	Outer_Full	64.32	66.68	/	Pass
DFT-s-OFDM 16 QAM	3935.01	Outer_Full	64.40	66.83	/	Pass
	3939.99	Outer_Full	64.35	66.63	/	Pass
	3945	Outer_Full	64.19	66.94	/	Pass
DFT-s-OFDM 64 QAM	3935.01	Outer_Full	63.84	66.95	/	Pass
	3939.99	Outer_Full	64.59	67.42	/	Pass
	3945	Outer_Full	64.30	67.05	/	Pass
DFT-s-OFDM 256 QAM	3935.01	Outer_Full	63.68	66.45	/	Pass
	3939.99	Outer_Full	64.18	67.22	/	Pass
	3945	Outer_Full	64.59	66.93	/	Pass
CP-OFDM QPSK	3935.01	Outer_Full	67.27	70.08	/	Pass
	3939.99	Outer_Full	67.72	70.15	/	Pass
	3945	Outer_Full	67.58	70.24	/	Pass
CP-OFDM 16 QAM	3935.01	Outer_Full	67.66	70.03	/	Pass
	3939.99	Outer_Full	67.53	70.42	/	Pass
	3945	Outer_Full	67.17	70.31	/	Pass
CP-OFDM 64 QAM	3935.01	Outer_Full	67.31	70.29	/	Pass
	3939.99	Outer_Full	67.34	70.18	/	Pass
	3945	Outer_Full	67.30	70.44	/	Pass
CP-OFDM 256 QAM	3935.01	Outer_Full	67.65	70.00	/	Pass
	3939.99	Outer_Full	67.34	70.33	/	Pass
	3945	Outer_Full	67.33	70.32	/	Pass

3.1.8 30_S_80M_NTNV

5G NR n77h SCS=30kHz SISO 80MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3940.02	Outer_Full	77.23	79.86	/	Pass
DFT-s-OFDM QPSK	3940.02	Outer_Full	77.11	79.92	/	Pass

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DFT-s-OFDM 16 QAM	3940.02	Outer_Full	77.32	79.83	/	Pass
DFT-s-OFDM 64 QAM	3940.02	Outer_Full	76.68	79.83	/	Pass
DFT-s-OFDM 256 QAM	3940.02	Outer_Full	77.40	80.05	/	Pass
CP-OFDM QPSK	3940.02	Outer_Full	77.25	80.31	/	Pass
CP-OFDM 16 QAM	3940.02	Outer_Full	77.28	80.48	/	Pass
CP-OFDM 64 QAM	3940.02	Outer_Full	77.31	80.37	/	Pass
CP-OFDM 256 QAM	3940.02	Outer_Full	77.32	80.33	/	Pass

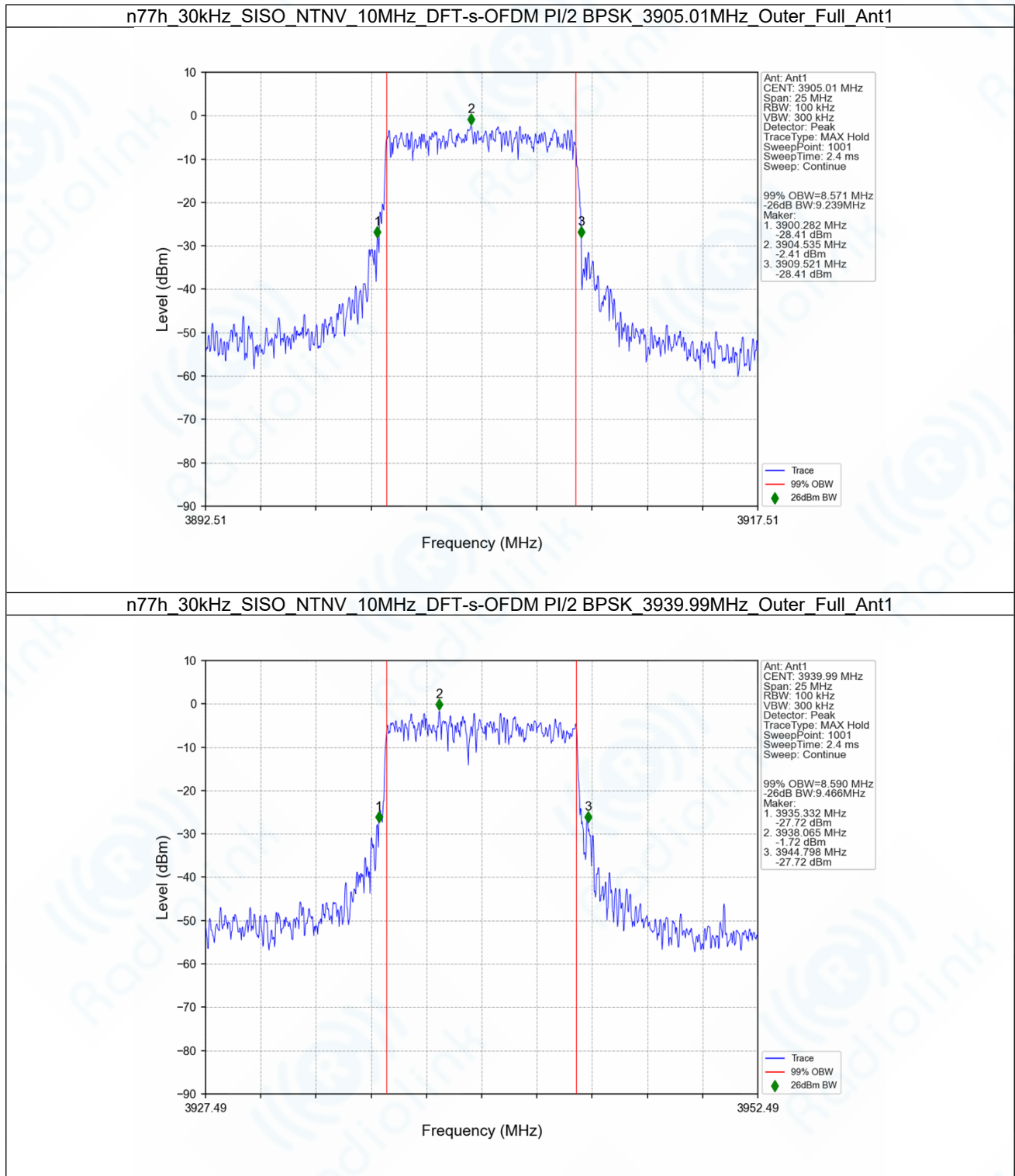


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3.2 Test Graph

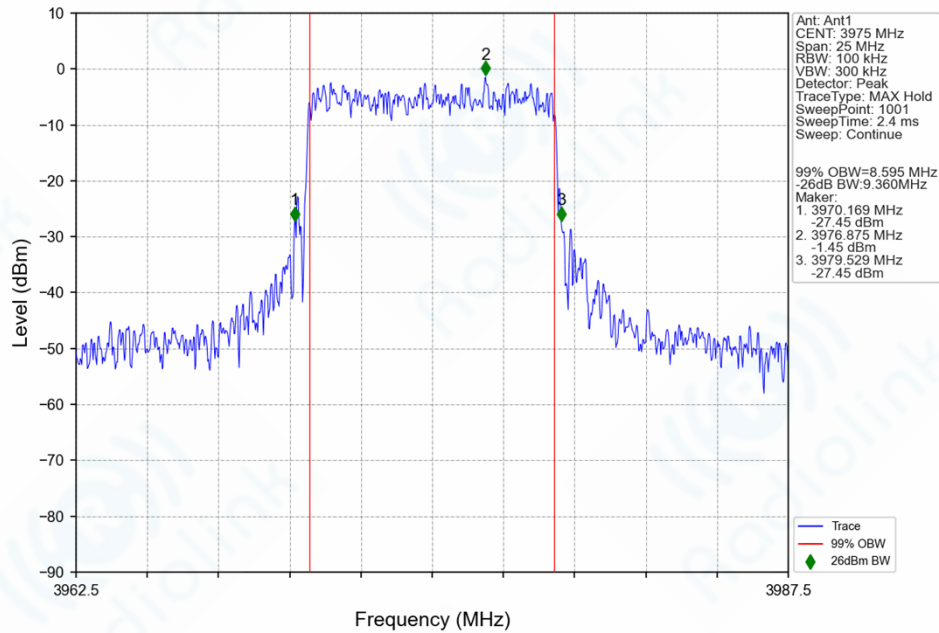
3.2.1 30_S_10M_NTNV



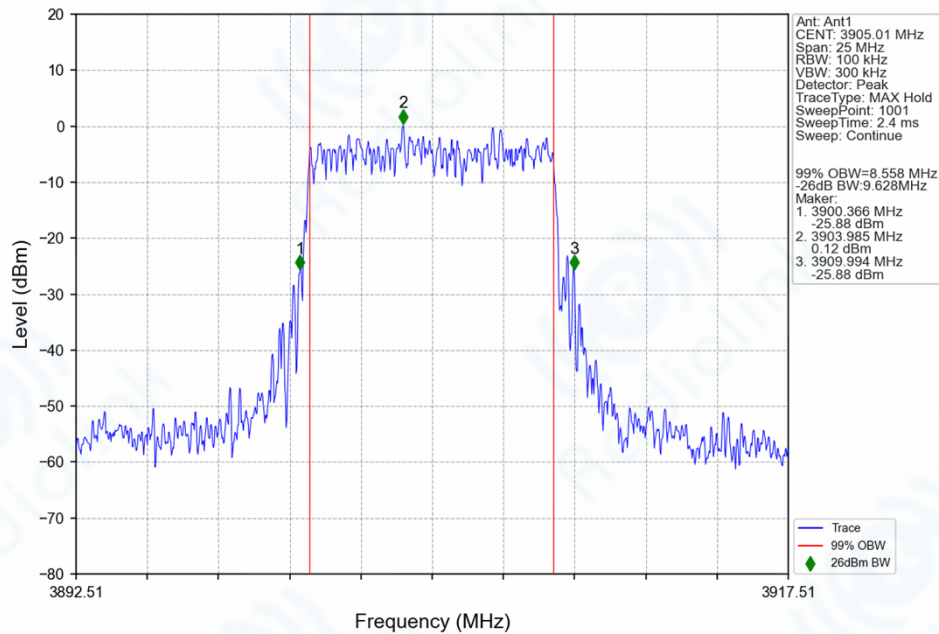
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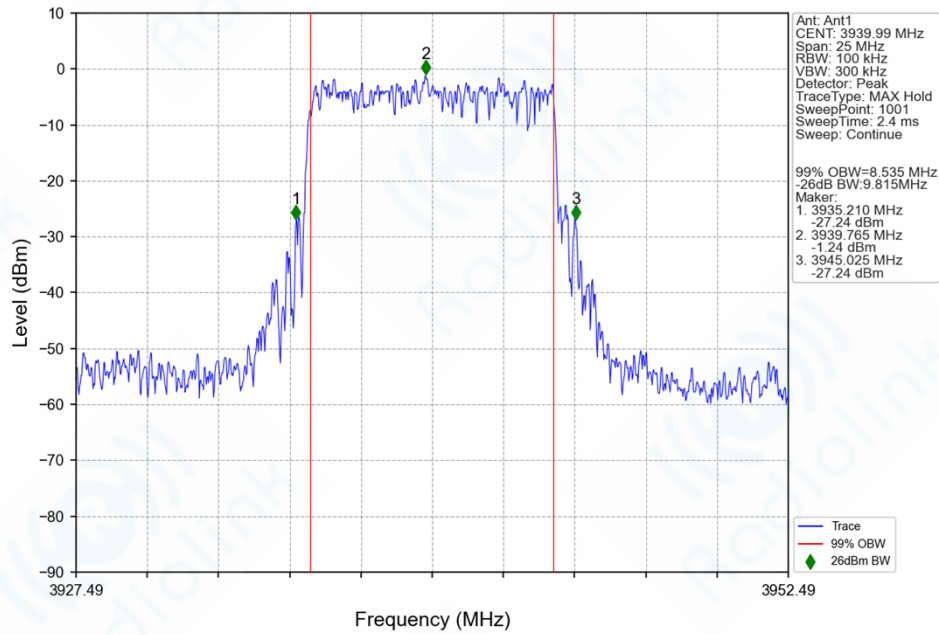
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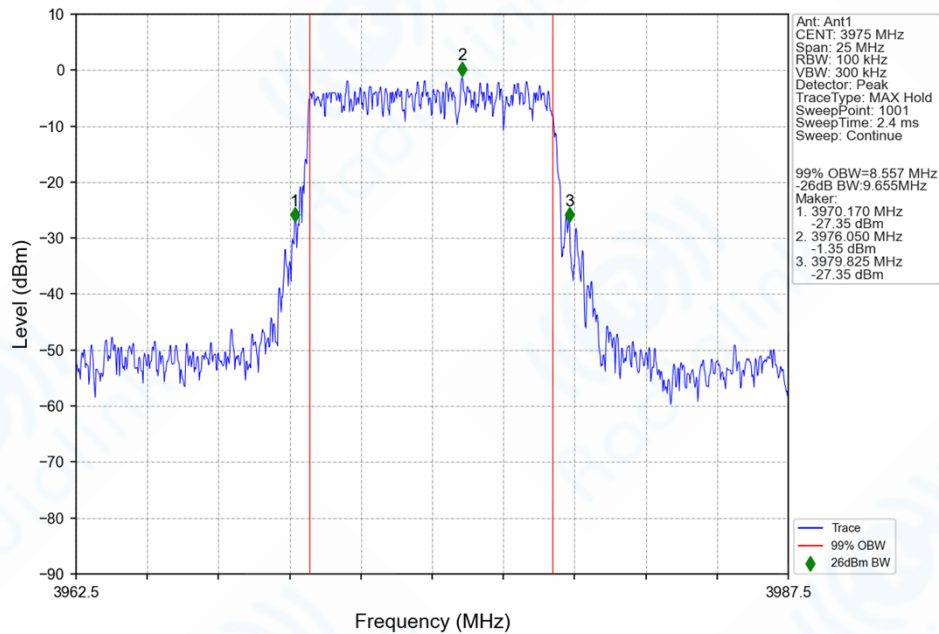
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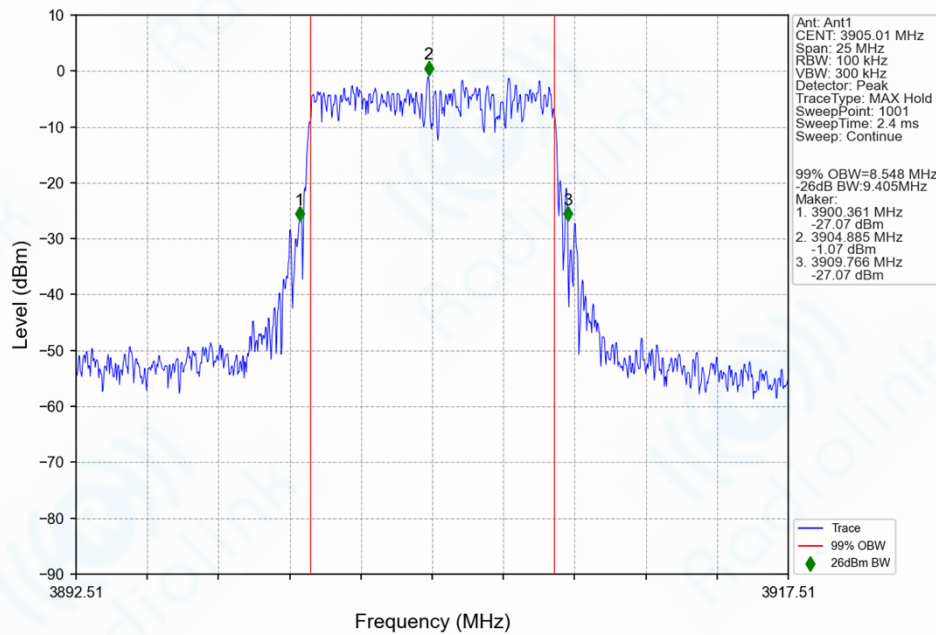


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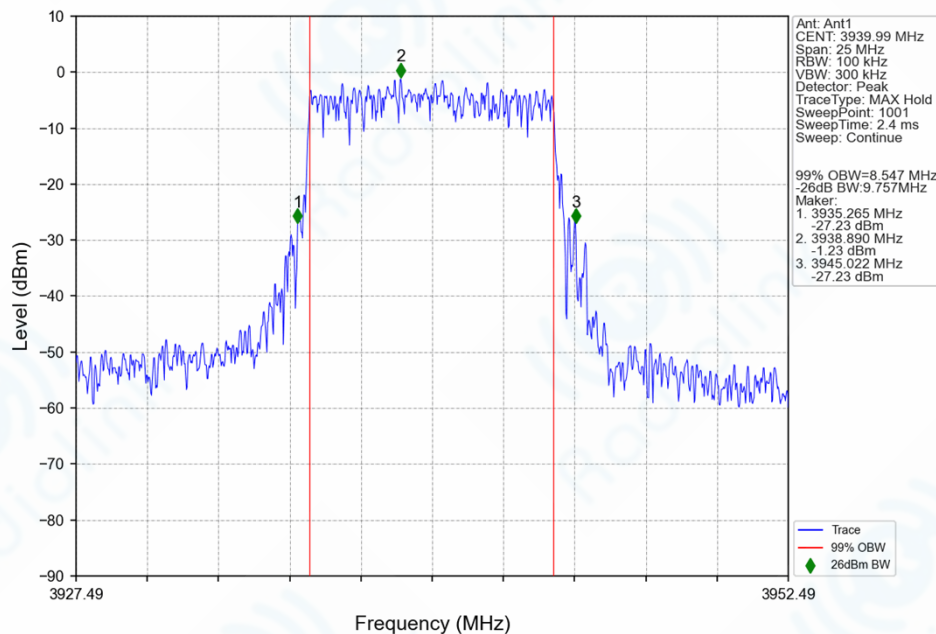

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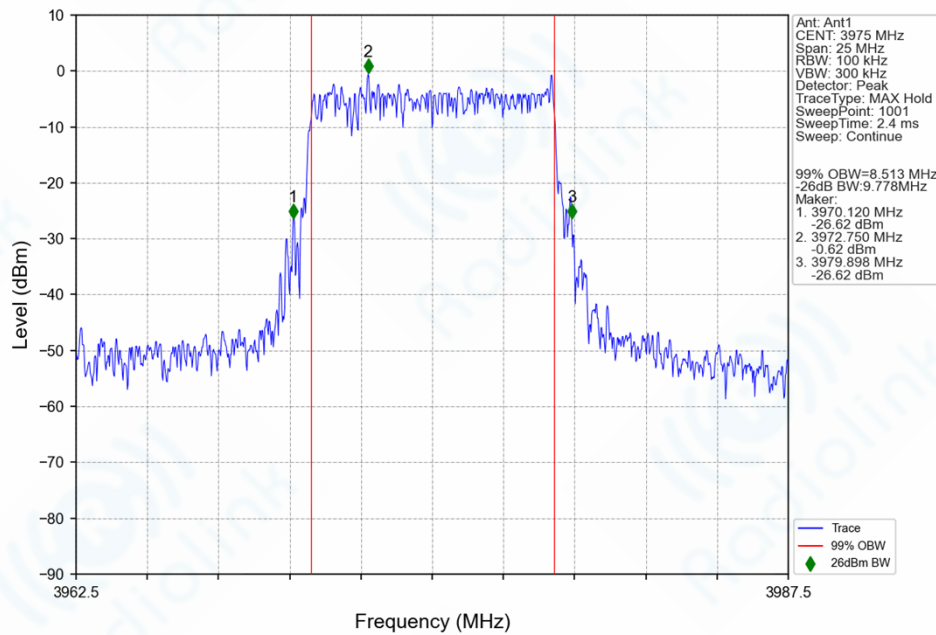
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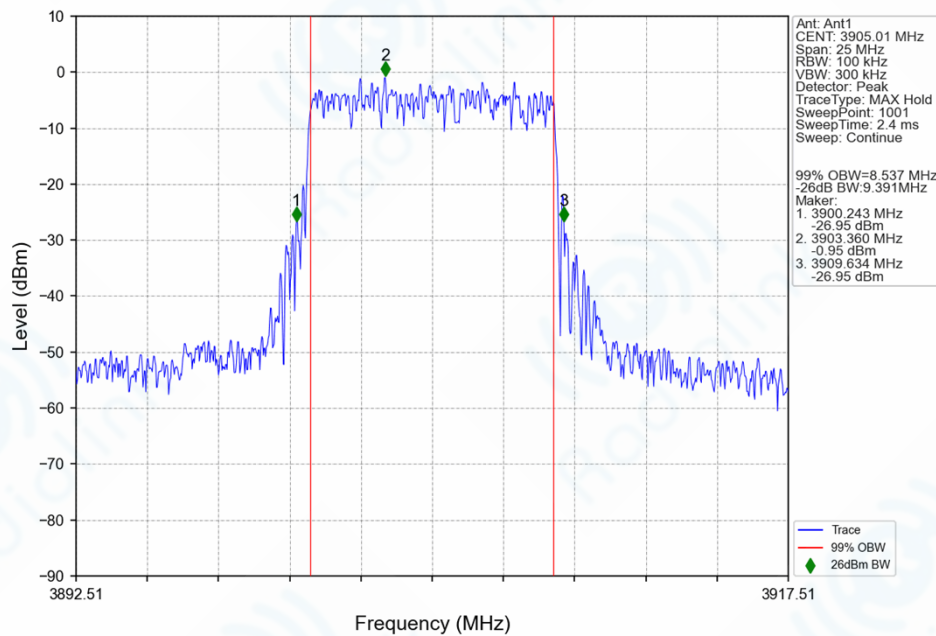
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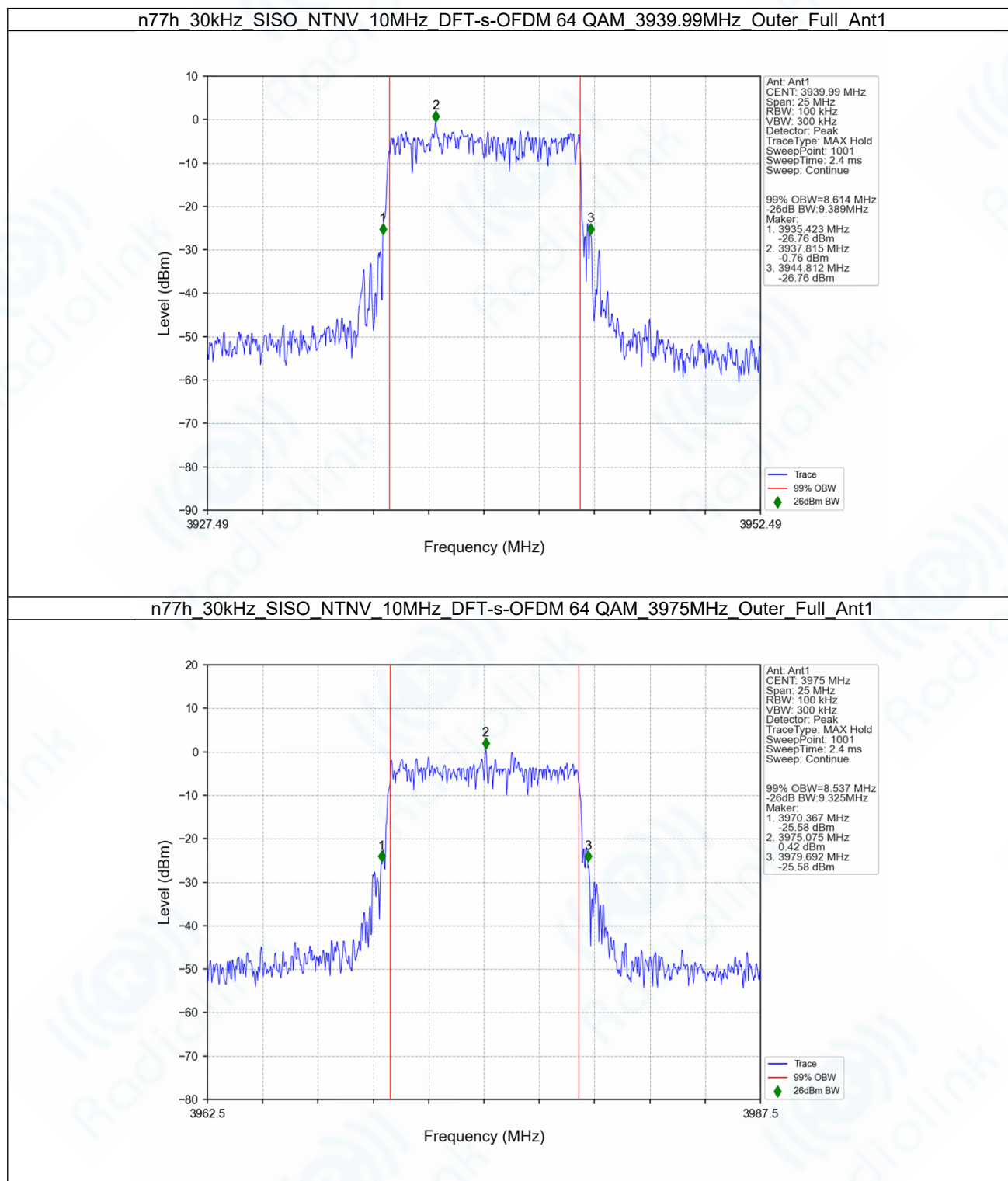
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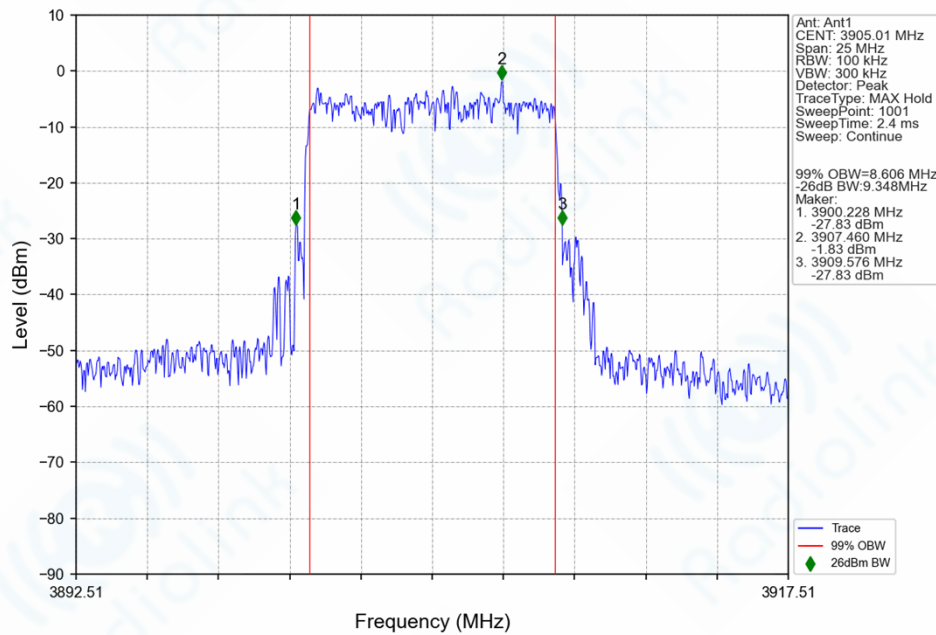
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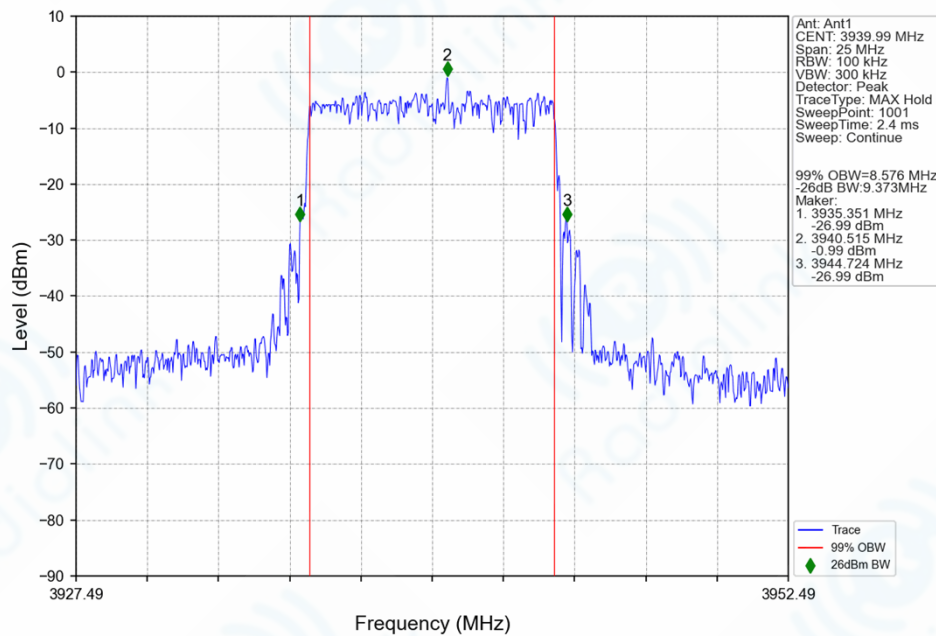
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n77h_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_3905.01MHz_Outer_Full_Ant1



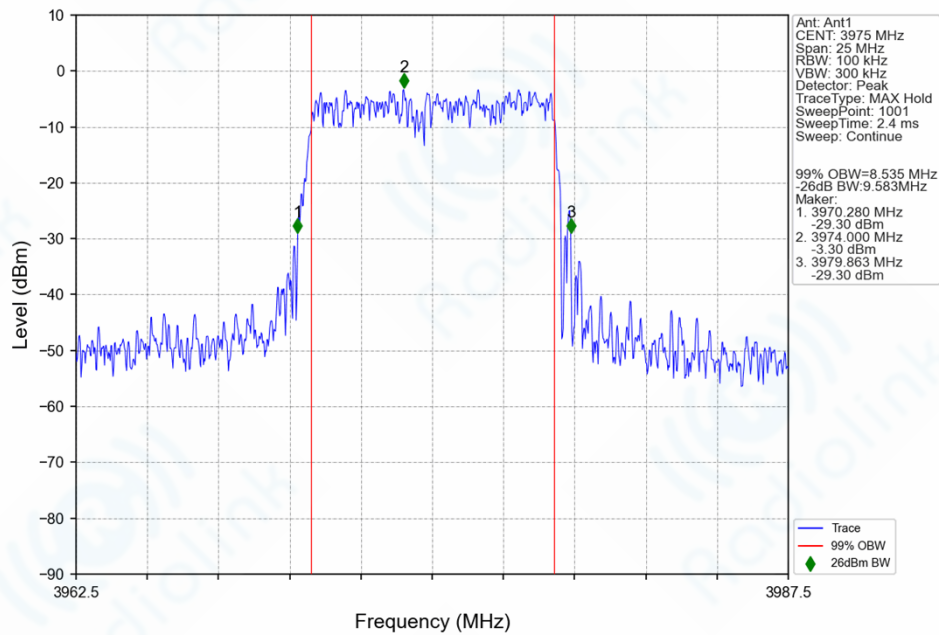
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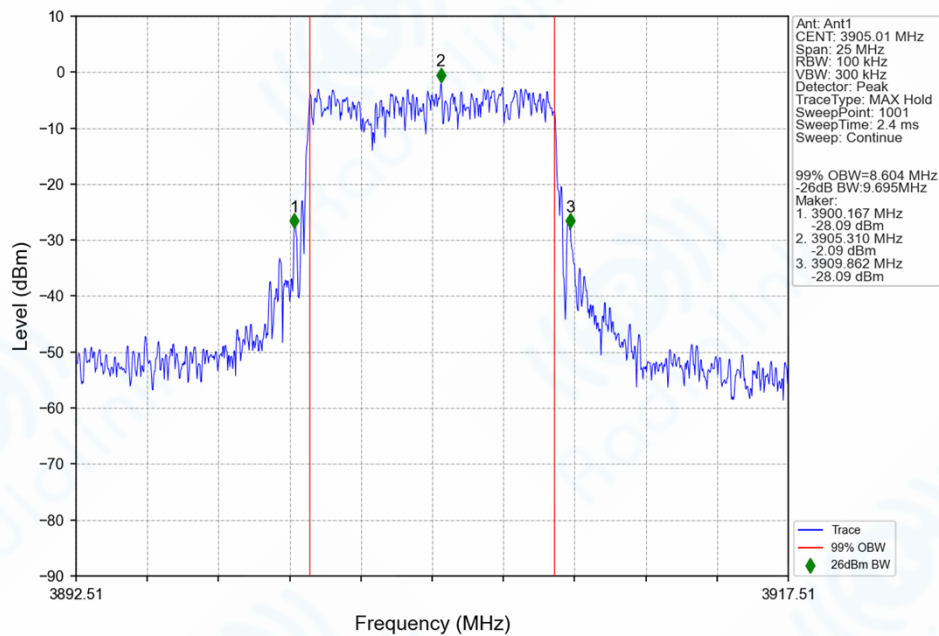
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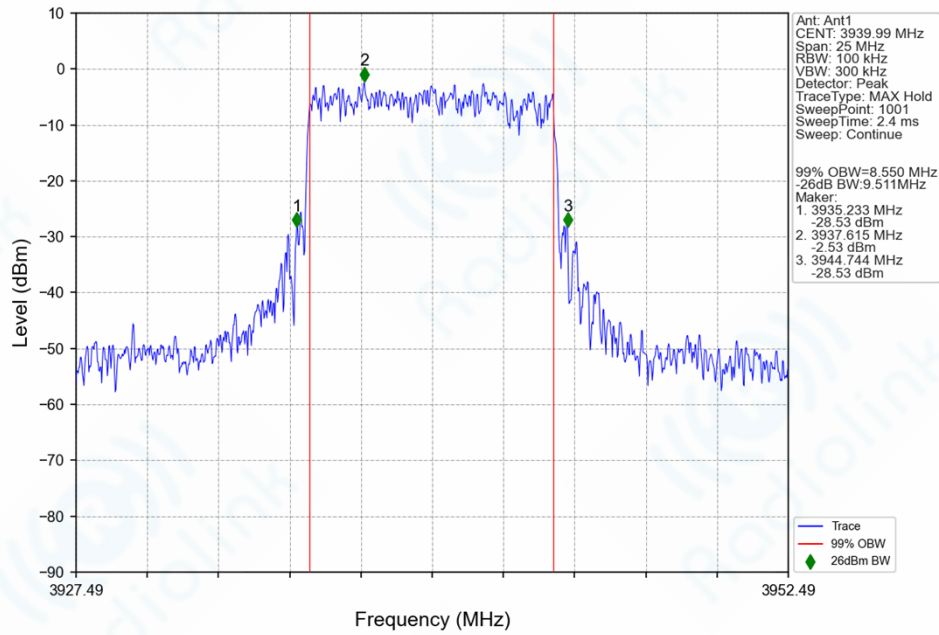
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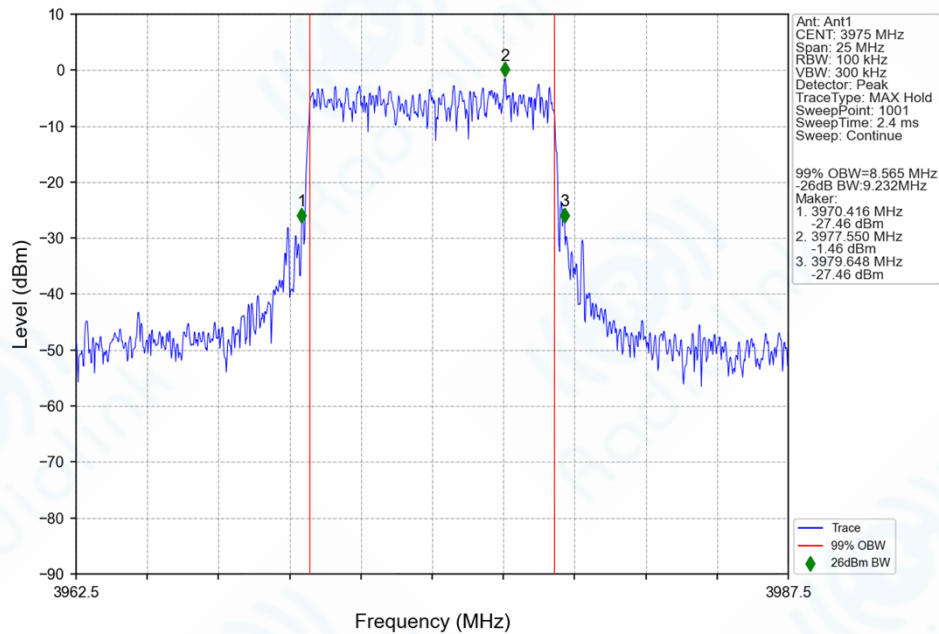
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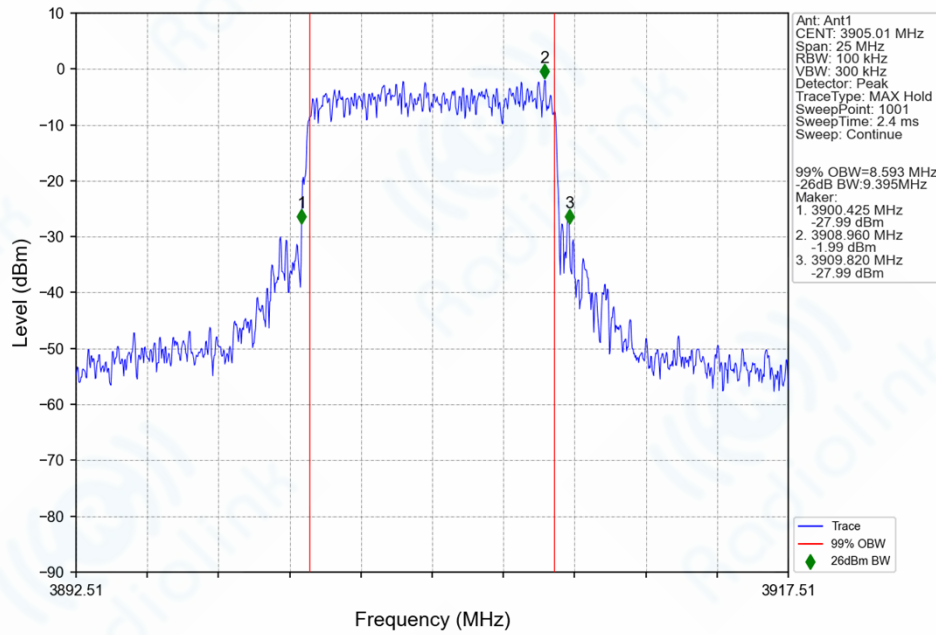
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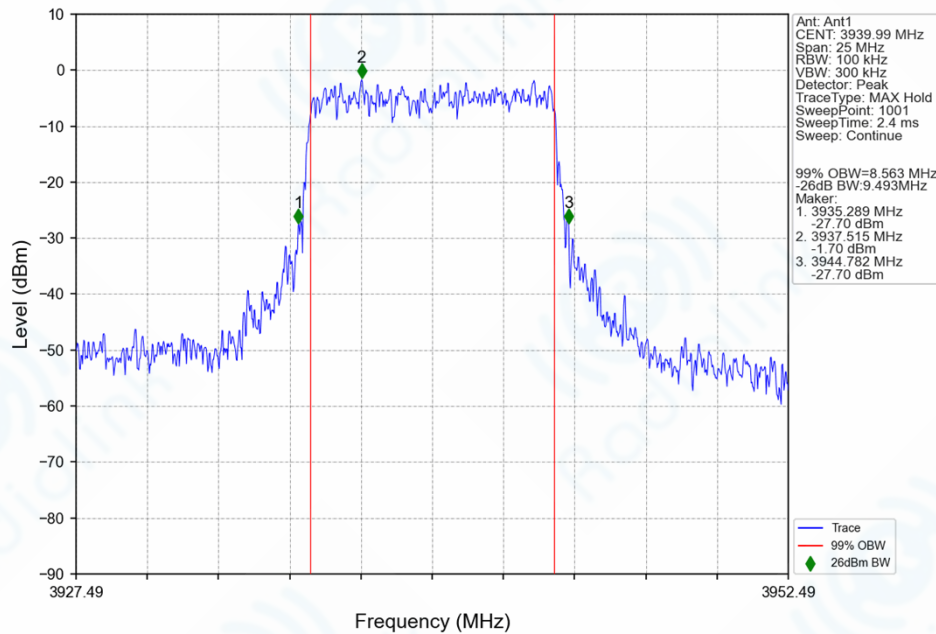
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n77h_30kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_3905.01MHz_Outer_Full_Ant1



n77h_30kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_3939.99MHz_Outer_Full_Ant1

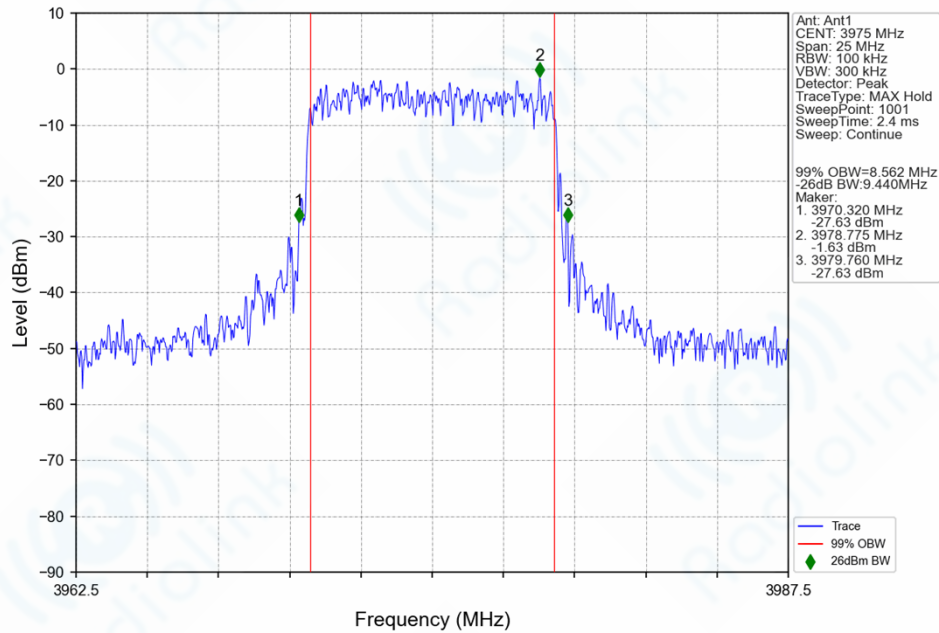


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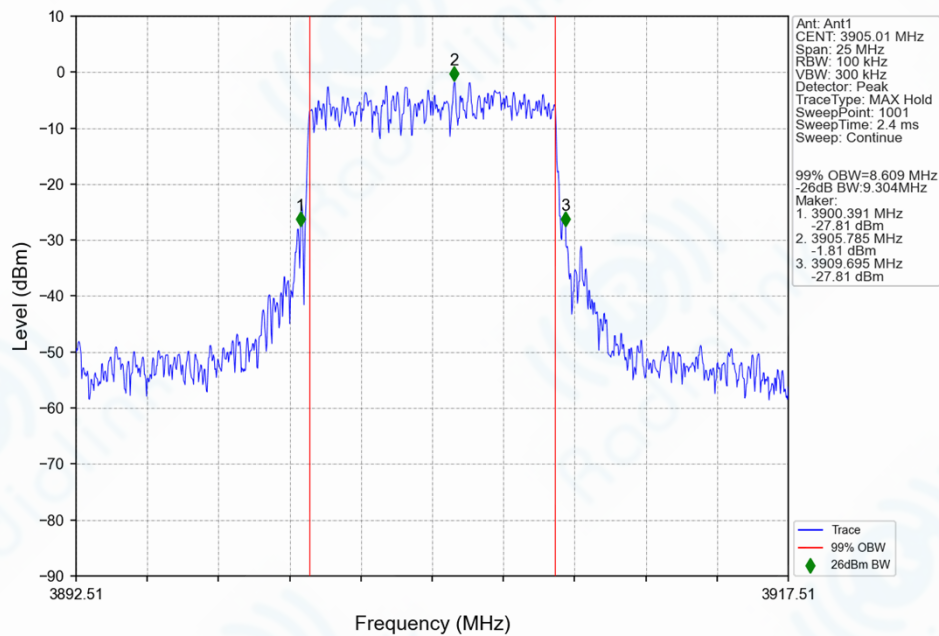
Room 103, Building B, Jinghang Industrial Park, Area 71, Xingdong Community, Xin'an Subdistrict, Bao'an District, Shenzhen, Guangdong Province, China

Tel: +86 0755 23080694

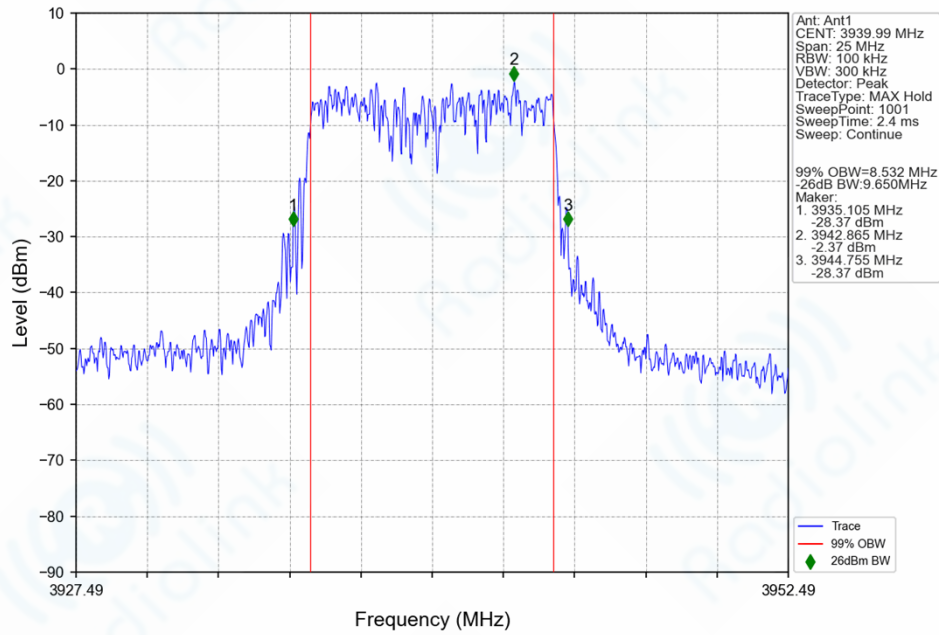
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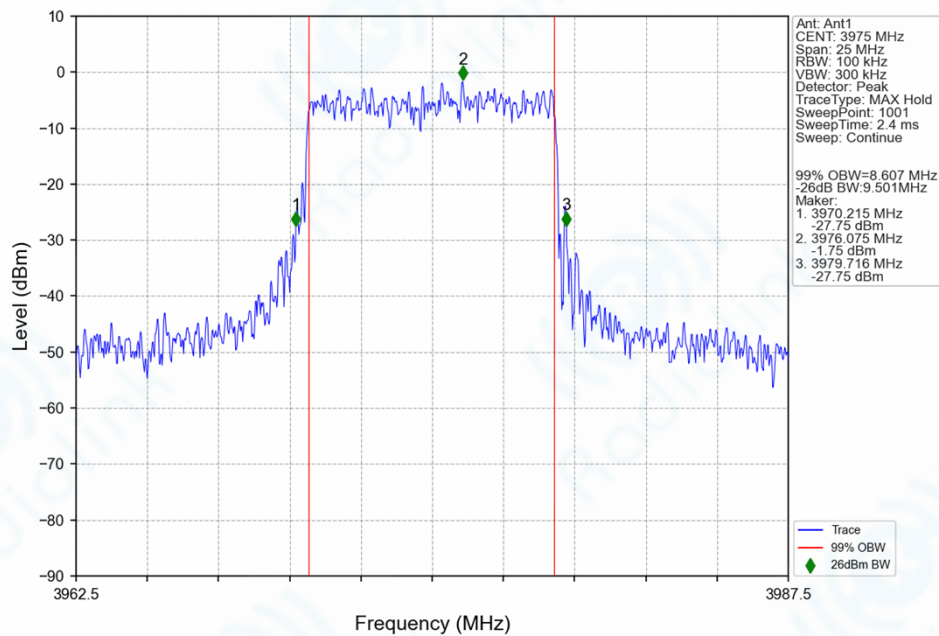
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n77h_30kHz_SISO_NTNV_10MHz_CP-OFDM_64_QAM_3975MHz_Outer_Full_Ant1

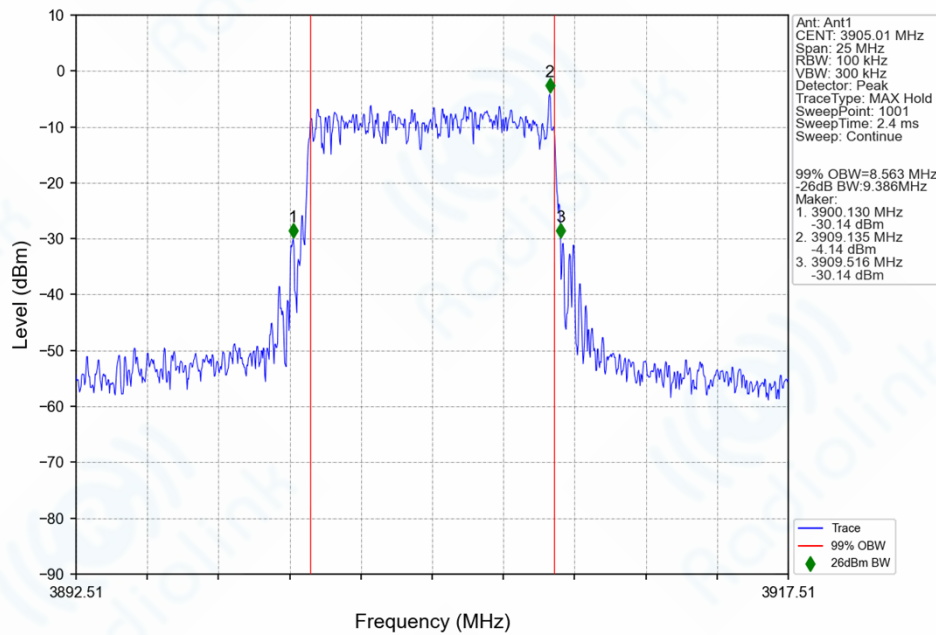


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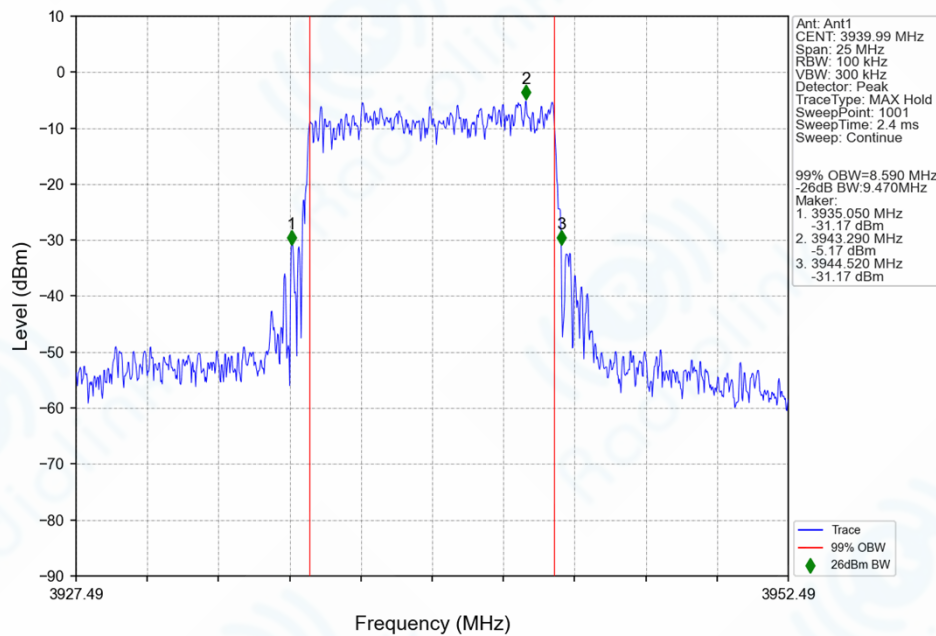
Room 103, Building B, Jinghang Industrial Park, Area 71, Xingdong Community, Xin'an Subdistrict, Bao'an District, Shenzhen, Guangdong Province, China

Tel: +86 0755 23080694

n77h_30kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_3905.01MHz_Outer_Full_Ant1



n77h_30kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_3939.99MHz_Outer_Full_Ant1



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