

Appendix B.37

NR Band n30



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (dBm/5MHz)	EIRP (dBm/5MHz)	Limit (dBm/5MHz)	Verdict
N30	30	5	DFT-QPSK	L	Inner_1RB_Left	22.16	19.16	23.98	PASS
N30	30	5	DFT-16QAM	L	Inner_1RB_Left	21.44	18.44	23.98	PASS
N30	30	5	DFT-QPSK	M	Inner_1RB_Left	22.32	19.32	23.98	PASS
N30	30	5	DFT-16QAM	M	Inner_1RB_Left	21.25	18.25	23.98	PASS
N30	30	5	DFT-QPSK	H	Inner_1RB_Left	22.29	19.29	23.98	PASS
N30	30	5	DFT-16QAM	H	Inner_1RB_Left	21.41	18.41	23.98	PASS
N30	30	10	DFT-PI2BPSK	L	Inner_1RB_Left	22.24	19.24	23.98	PASS
N30	30	10	DFT-PI2BPSK	L	Inner_1RB_Right	22.26	19.26	23.98	PASS
N30	30	10	DFT-PI2BPSK	L	Outer_Full	21.69	18.69	23.98	PASS
N30	30	10	DFT-QPSK	L	Inner_1RB_Left	22.24	19.24	23.98	PASS
N30	30	10	DFT-QPSK	L	Inner_1RB_Right	22.18	19.18	23.98	PASS
N30	30	10	DFT-QPSK	L	Outer_Full	21.18	18.18	23.98	PASS
N30	30	10	DFT-16QAM	L	Inner_1RB_Left	21.32	18.32	23.98	PASS
N30	30	10	DFT-16QAM	L	Inner_1RB_Right	21.26	18.26	23.98	PASS
N30	30	10	DFT-16QAM	L	Outer_Full	20.16	17.16	23.98	PASS
N30	30	10	DFT-64QAM	L	Inner_1RB_Left	19.98	16.98	23.98	PASS
N30	30	10	DFT-64QAM	L	Inner_1RB_Right	19.95	16.95	23.98	PASS
N30	30	10	DFT-64QAM	L	Outer_Full	19.71	16.71	23.98	PASS
N30	30	10	DFT-256QAM	L	Inner_1RB_Left	17.17	14.17	23.98	PASS
N30	30	10	DFT-256QAM	L	Inner_1RB_Right	17.18	14.18	23.98	PASS
N30	30	10	DFT-256QAM	L	Outer_Full	17.67	14.67	23.98	PASS
N30	30	10	DFT-PI2BPSK	M	Inner_1RB_Left	22.31	19.31	23.98	PASS
N30	30	10	DFT-PI2BPSK	M	Inner_1RB_Right	22.31	19.31	23.98	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	21.69	18.69	23.98	PASS
N30	30	10	DFT-QPSK	M	Inner_1RB_Left	22.23	19.23	23.98	PASS
N30	30	10	DFT-QPSK	M	Inner_1RB_Right	22.19	19.19	23.98	PASS
N30	30	10	DFT-QPSK	M	Outer_Full	21.15	18.15	23.98	PASS
N30	30	10	DFT-16QAM	M	Inner_1RB_Left	21.26	18.26	23.98	PASS
N30	30	10	DFT-16QAM	M	Inner_1RB_Right	21.31	18.31	23.98	PASS
N30	30	10	DFT-16QAM	M	Outer_Full	20.17	17.17	23.98	PASS
N30	30	10	DFT-64QAM	M	Inner_1RB_Left	19.99	16.99	23.98	PASS
N30	30	10	DFT-64QAM	M	Inner_1RB_Right	19.99	16.99	23.98	PASS



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N30	30	10	DFT-64QAM	M	Outer_Full	19.76	16.76	23.98	PASS
N30	30	10	DFT-256QAM	M	Inner_1RB_Left	17.16	14.16	23.98	PASS
N30	30	10	DFT-256QAM	M	Inner_1RB_Right	17.15	14.15	23.98	PASS
N30	30	10	DFT-256QAM	M	Outer_Full	17.64	14.64	23.98	PASS
N30	30	10	DFT-PI2BPSK	H	Inner_1RB_Left	22.3	19.3	23.98	PASS
N30	30	10	DFT-PI2BPSK	H	Inner_1RB_Right	22.29	19.29	23.98	PASS
N30	30	10	DFT-PI2BPSK	H	Outer_Full	21.69	18.69	23.98	PASS
N30	30	10	DFT-QPSK	H	Inner_1RB_Left	22.19	19.19	23.98	PASS
N30	30	10	DFT-QPSK	H	Inner_1RB_Right	22.18	19.18	23.98	PASS
N30	30	10	DFT-QPSK	H	Outer_Full	21.17	18.17	23.98	PASS
N30	30	10	DFT-16QAM	H	Inner_1RB_Left	21.3	18.3	23.98	PASS
N30	30	10	DFT-16QAM	H	Inner_1RB_Right	21.28	18.28	23.98	PASS
N30	30	10	DFT-16QAM	H	Outer_Full	20.19	17.19	23.98	PASS
N30	30	10	DFT-64QAM	H	Inner_1RB_Left	19.95	16.95	23.98	PASS
N30	30	10	DFT-64QAM	H	Inner_1RB_Right	19.94	16.94	23.98	PASS
N30	30	10	DFT-64QAM	H	Outer_Full	19.74	16.74	23.98	PASS
N30	30	10	DFT-256QAM	H	Inner_1RB_Left	17.11	14.11	23.98	PASS
N30	30	10	DFT-256QAM	H	Inner_1RB_Right	17.2	14.2	23.98	PASS
N30	30	10	DFT-256QAM	H	Outer_Full	17.68	14.68	23.98	PASS



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Power Spectral Density

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (dBm/5MHz)	EIRP (dBm/5MHz)	Limit (dBm/5MHz)	Verdict
N30	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	22.03	19.03	23.98	PASS
N30	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	21.45	18.45	23.98	PASS
N30	15	5	DFT-PI2BPSK	L	Outer_Full	20.2	17.2	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	21.56	18.56	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	21.67	18.67	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Outer_Full	20.11	17.11	23.98	PASS
N30	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	21.5	18.5	23.98	PASS
N30	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	22.13	19.13	23.98	PASS
N30	15	5	DFT-PI2BPSK	H	Outer_Full	20.39	17.39	23.98	PASS
N30	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	21.78	18.78	23.98	PASS
N30	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	22.27	19.27	23.98	PASS
N30	15	10	DFT-PI2BPSK	L	Outer_Full	18.82	15.82	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	21.32	18.32	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	21.95	18.95	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	18.53	15.53	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	21.02	18.02	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	21.79	18.79	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Outer_Full	18.45	15.45	23.98	PASS

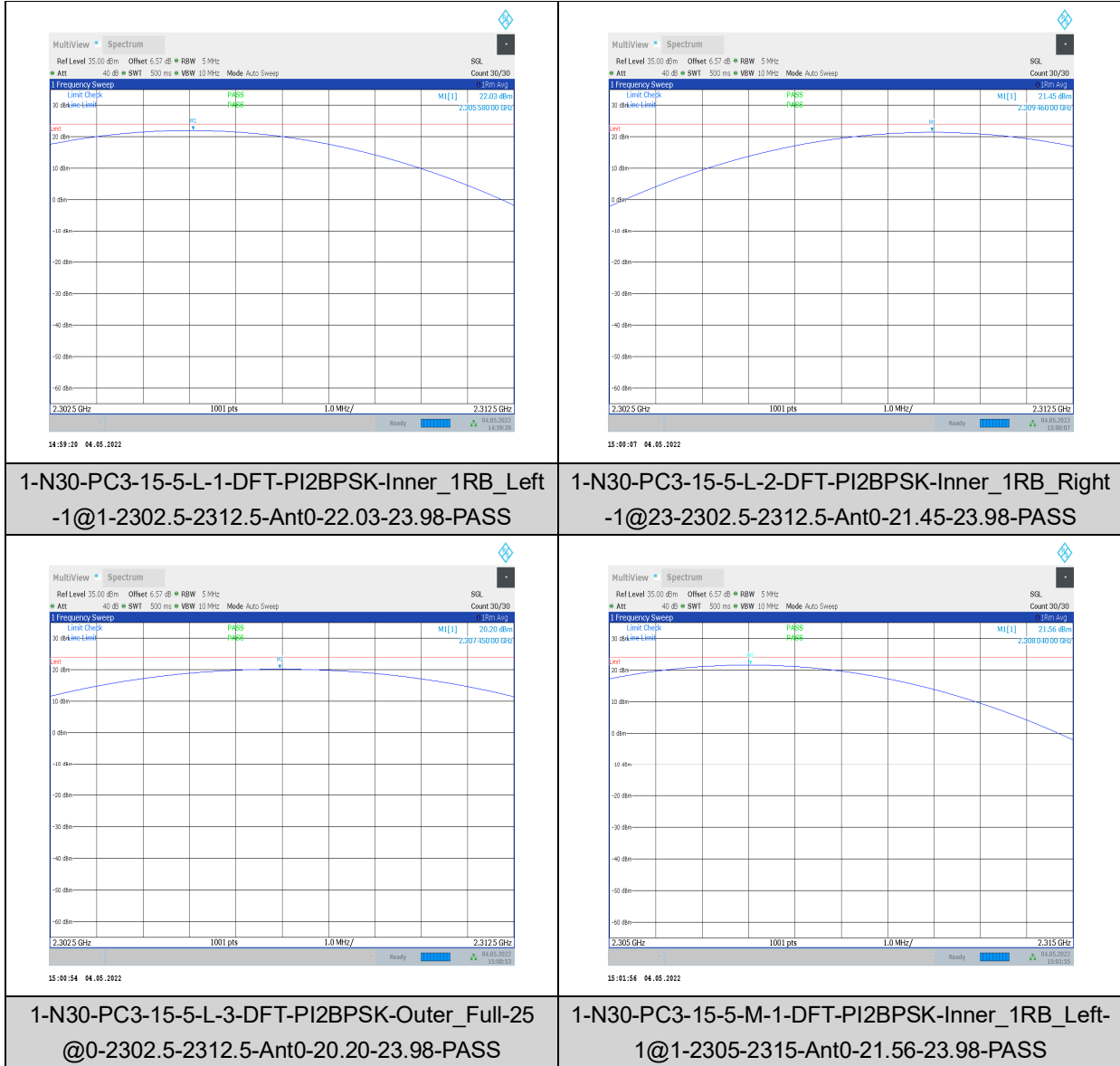


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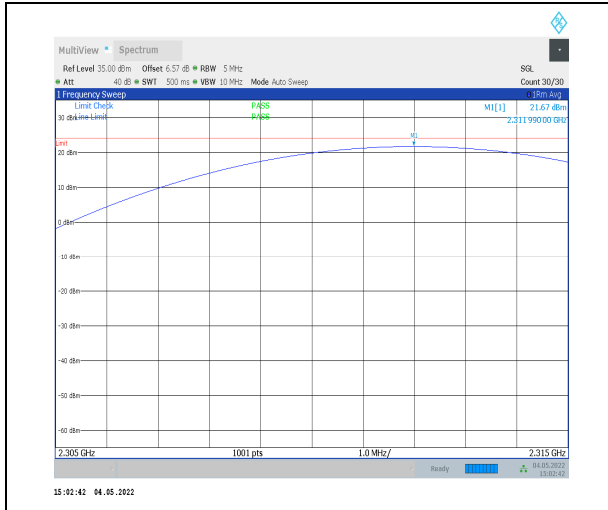
Test Graphs



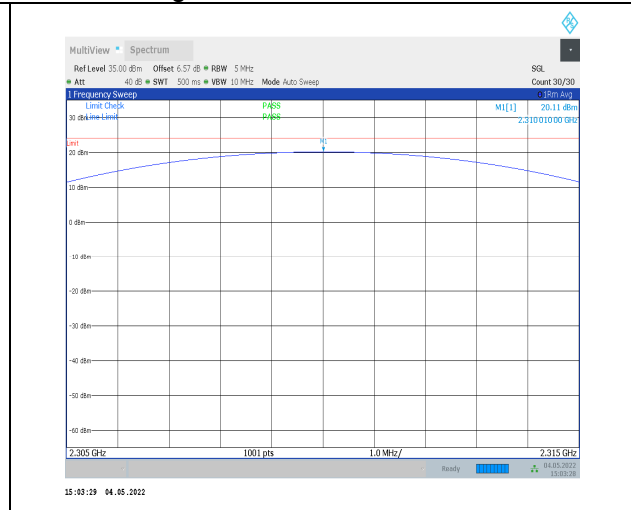
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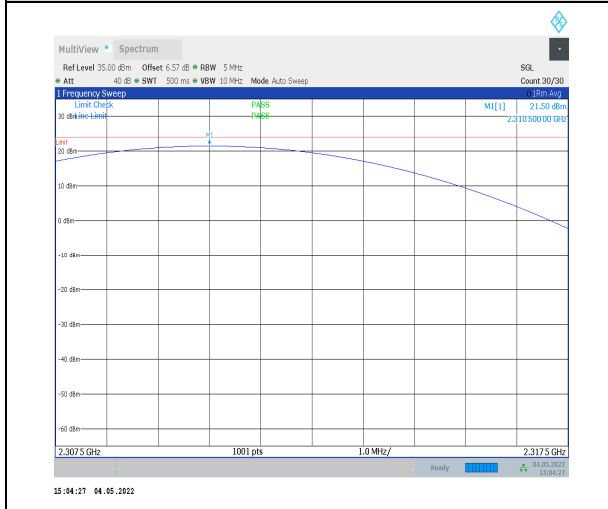
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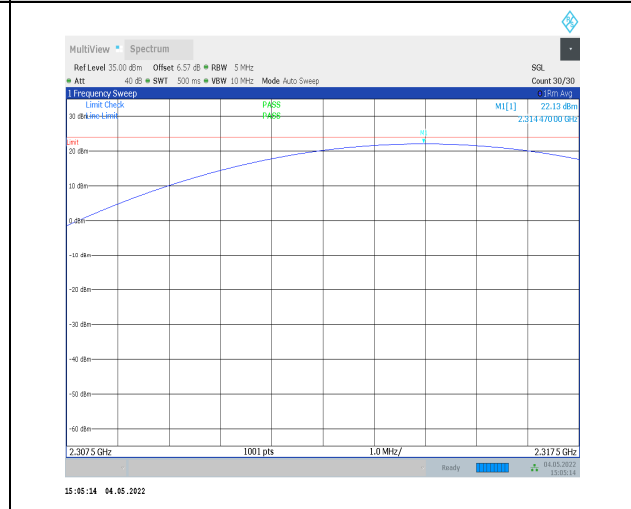
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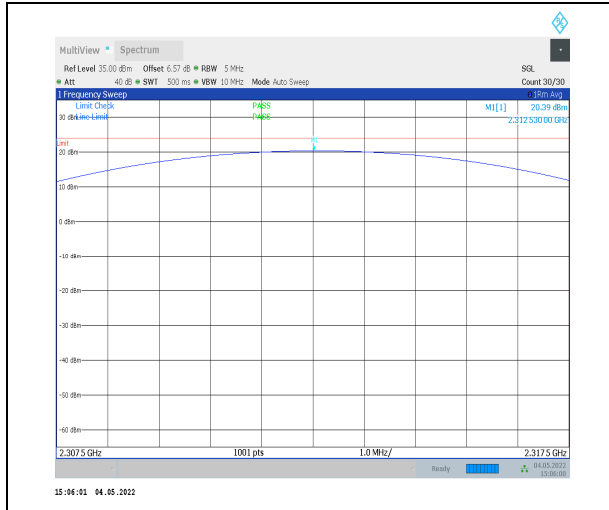
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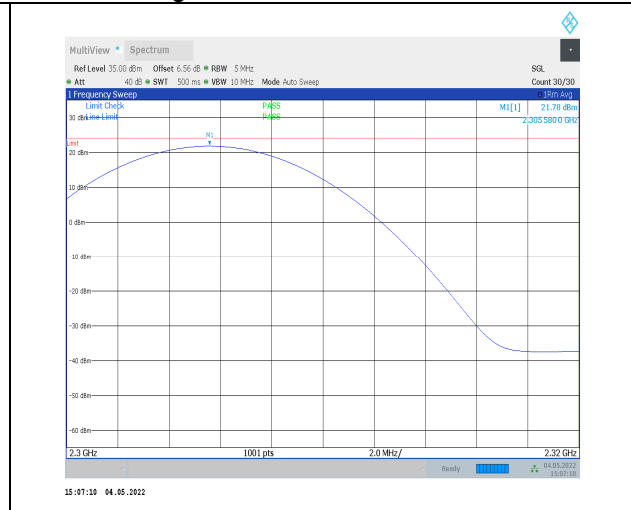
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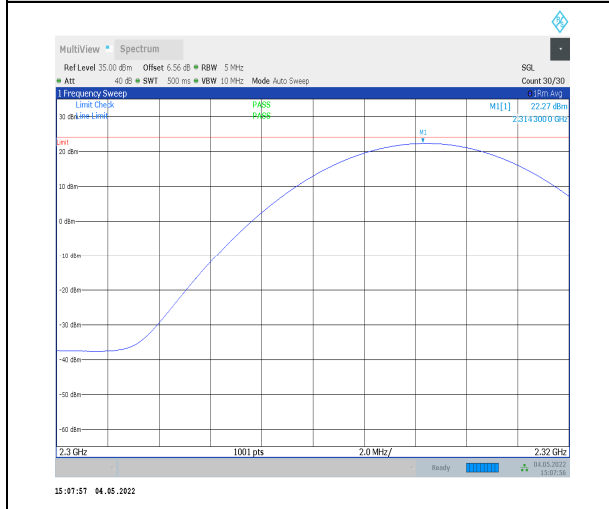
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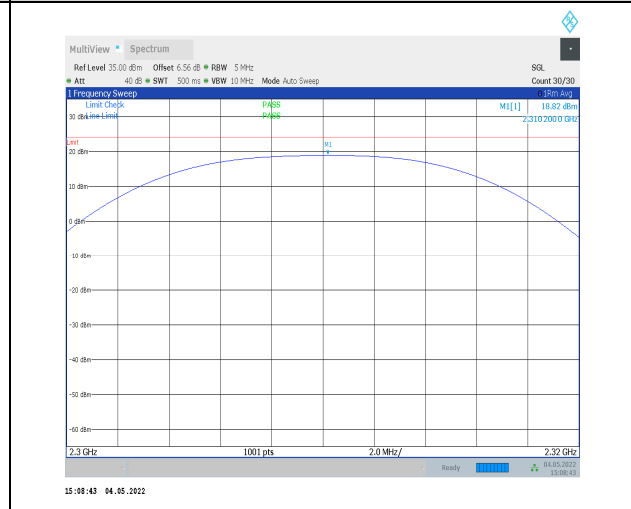
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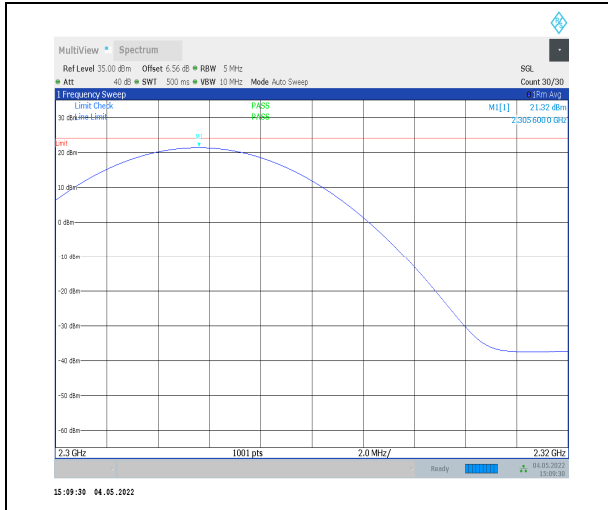
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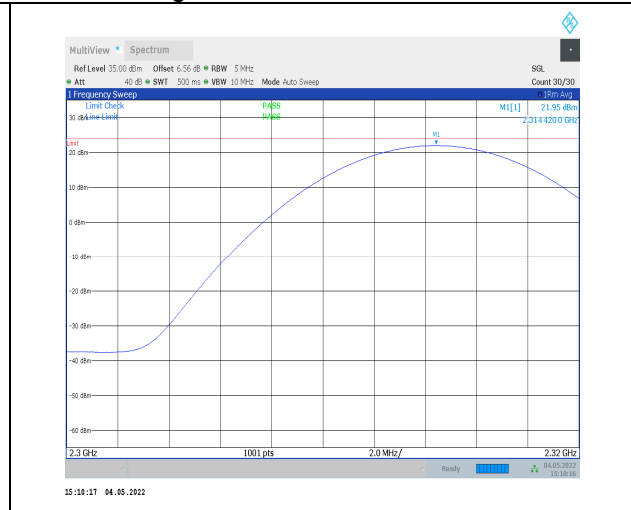
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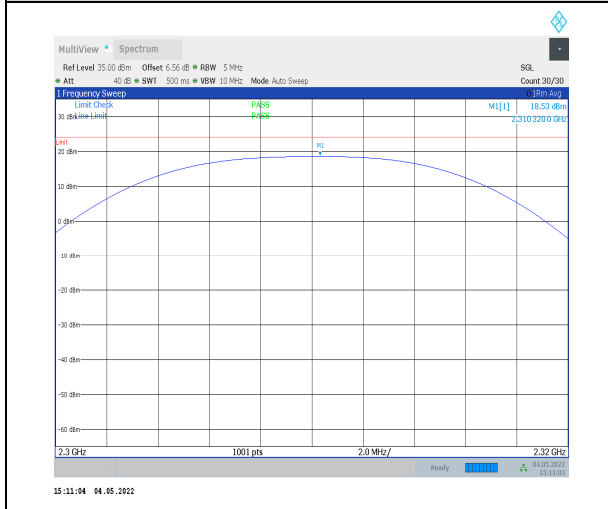
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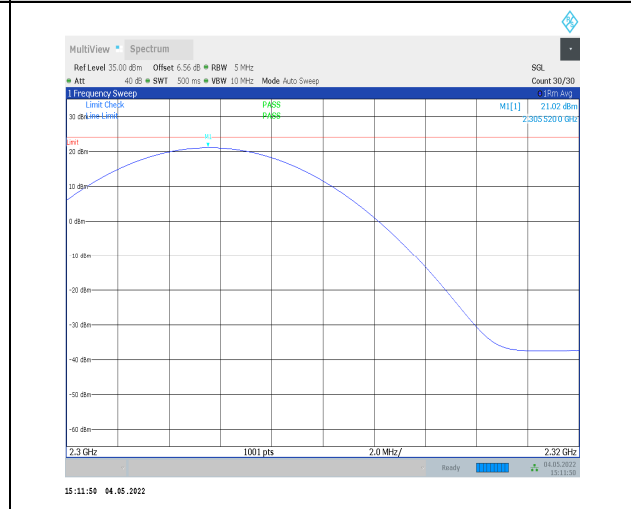
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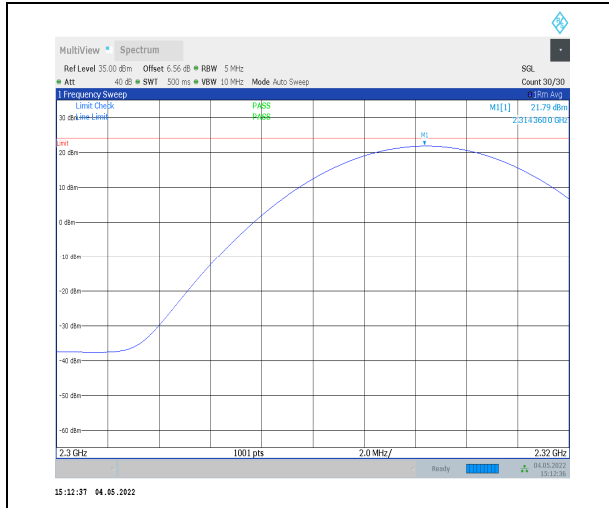
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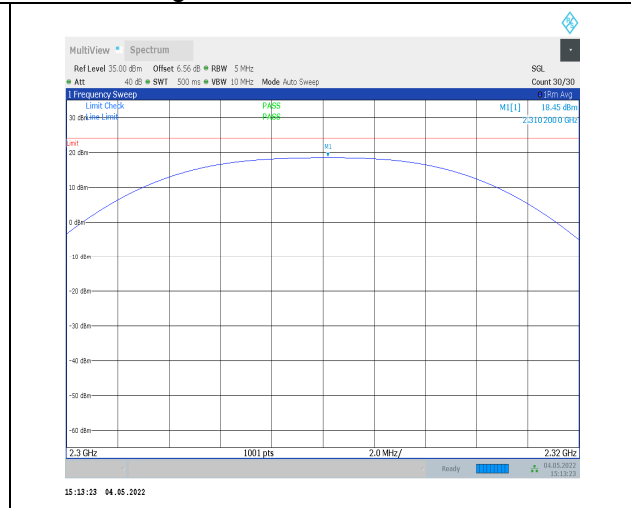
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1-N30-PC3-15-10-H-2-DFT-PI2BPSK-Inner_1RB_Ri ght-1@50-2300-2320-Ant0-21.79-23.98-PASS



1-N30-PC3-15-10-H-3-DFT-PI2BPSK-Outer_Full-50 @0-2300-2320-Ant0-18.45-23.98-PASS



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Peak-to-Average Ratio for SA

Test Result

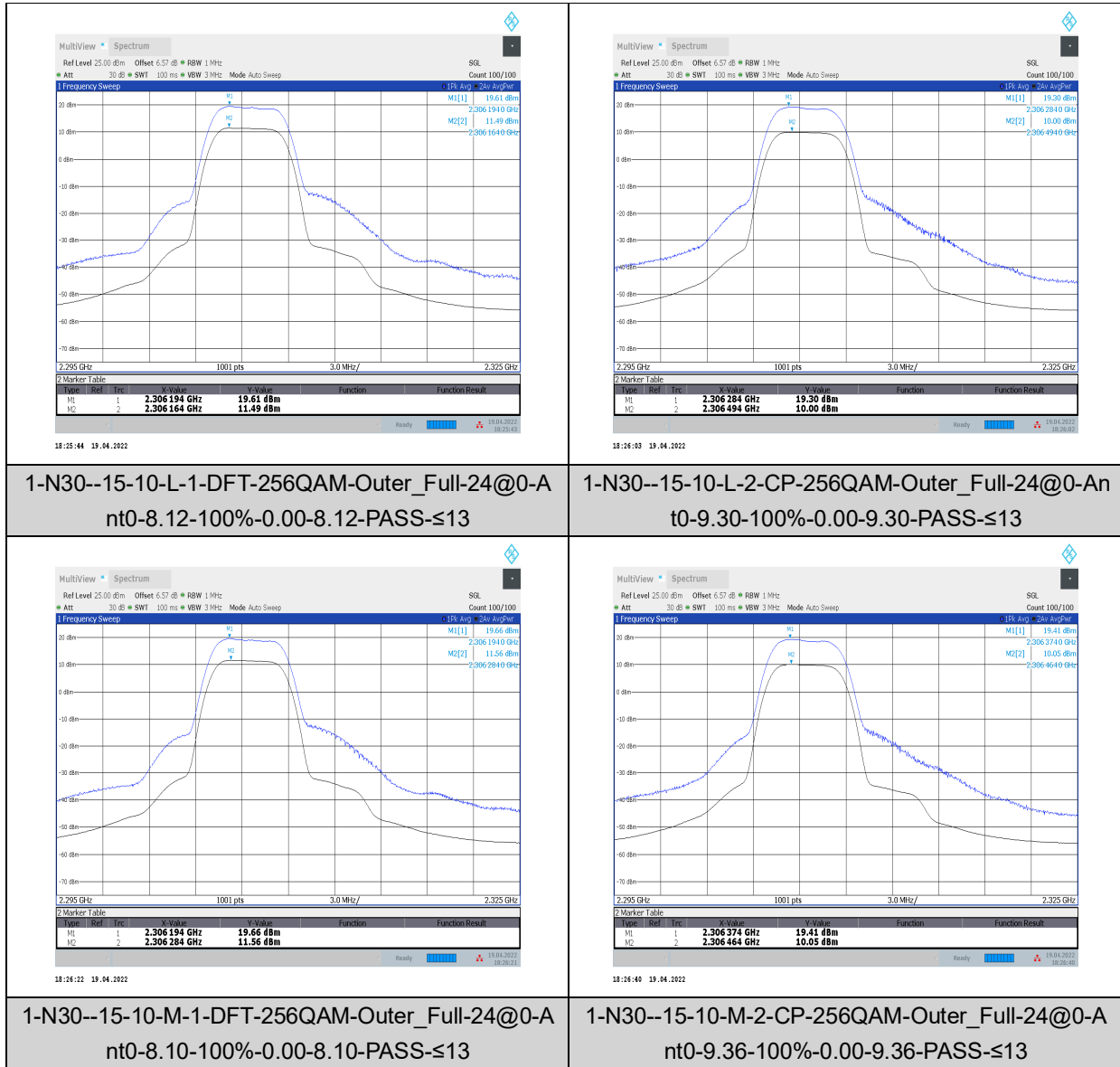
Band	SCS	Bandwidth	Modulation	Channel	RB Config	DutyCycle	Factor	Result	Limit	Verdict
N30	15	10	DFT-256QAM	L	Outer_Full	100%	0.00	8.12	≤13	PASS
N30	15	10	CP-256QAM	L	Outer_Full	100%	0.00	9.30	≤13	PASS
N30	15	10	DFT-256QAM	M	Outer_Full	100%	0.00	8.10	≤13	PASS
N30	15	10	CP-256QAM	M	Outer_Full	100%	0.00	9.36	≤13	PASS
N30	15	10	DFT-256QAM	H	Outer_Full	100%	0.00	8.11	≤13	PASS
N30	15	10	CP-256QAM	H	Outer_Full	100%	0.00	9.36	≤13	PASS



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Test Graphs



1-N30--15-10-L-1-DFT-256QAM-Outer_Full-24@0-A
nt0-8.12-100%-0.00-8.12-PASS-≤13

1-N30--15-10-L-2-CP-256QAM-Outer_Full-24@0-An
t0-9.30-100%-0.00-9.30-PASS-≤13

1-N30--15-10-M-1-DFT-256QAM-Outer_Full-24@0-A
nt0-8.10-100%-0.00-8.10-PASS-≤13

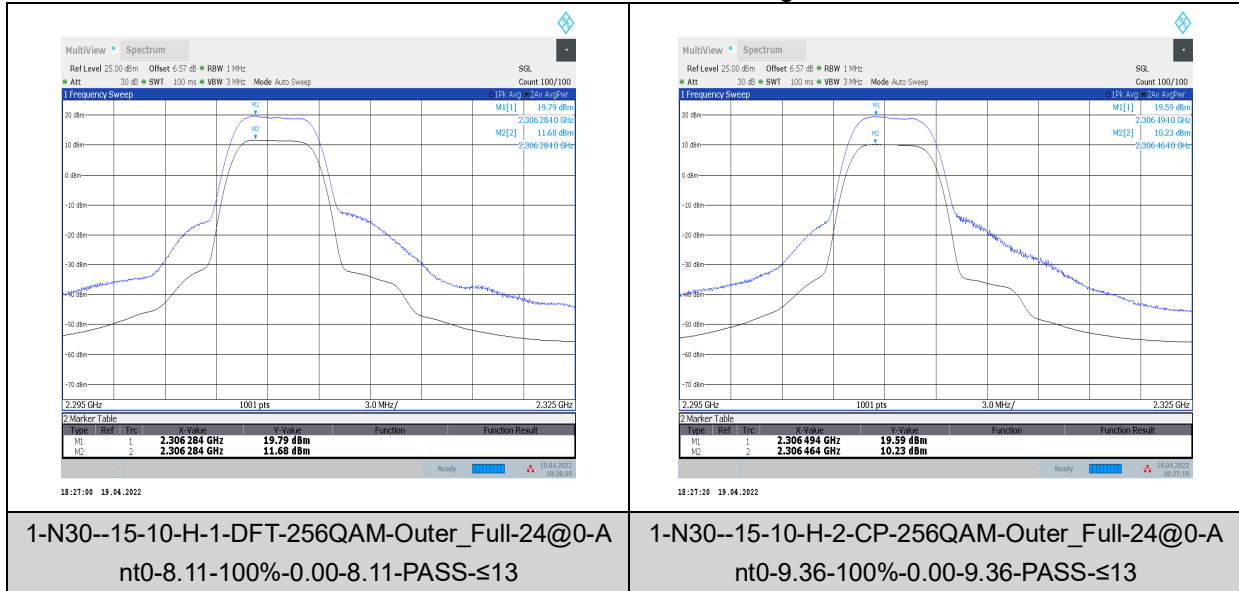
1-N30--15-10-M-2-CP-256QAM-Outer_Full-24@0-A
nt0-9.36-100%-0.00-9.36-PASS-≤13



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1-N30--15-10-H-1-DFT-256QAM-Outer_Full-24@0-A
nt0-8.11-100%-0.00-8.11-PASS-<13

1-N30--15-10-H-2-CP-256QAM-Outer_Full-24@0-A
nt0-9.36-100%-0.00-9.36-PASS-<13



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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N30	15	5	DFT-QPSK	L	Outer_Full	4.495	5.170	PASS
N30	15	5	DFT-PI2BPSK	L	Outer_Full	4.475	5.030	PASS
N30	15	5	DFT-16QAM	L	Outer_Full	4.475	5.020	PASS
N30	15	5	DFT-64QAM	L	Outer_Full	4.503	5.070	PASS
N30	15	5	DFT-256QAM	L	Outer_Full	4.473	5.050	PASS
N30	15	5	CP-QPSK	L	Outer_Full	4.472	5.100	PASS
N30	15	5	CP-16QAM	L	Outer_Full	4.463	5.050	PASS
N30	15	5	CP-64QAM	L	Outer_Full	4.476	5.120	PASS
N30	15	5	CP-256QAM	L	Outer_Full	4.483	5.110	PASS
N30	15	5	DFT-QPSK	M	Outer_Full	4.491	5.160	PASS
N30	15	5	DFT-PI2BPSK	M	Outer_Full	4.463	5.060	PASS
N30	15	5	DFT-16QAM	M	Outer_Full	4.461	4.880	PASS
N30	15	5	DFT-64QAM	M	Outer_Full	4.473	4.990	PASS
N30	15	5	DFT-256QAM	M	Outer_Full	4.473	5.020	PASS
N30	15	5	CP-QPSK	M	Outer_Full	4.464	4.930	PASS
N30	15	5	CP-16QAM	M	Outer_Full	4.485	5.150	PASS
N30	15	5	CP-64QAM	M	Outer_Full	4.474	4.990	PASS
N30	15	5	CP-256QAM	M	Outer_Full	4.471	4.880	PASS
N30	15	5	DFT-QPSK	H	Outer_Full	4.488	5.130	PASS
N30	15	5	DFT-PI2BPSK	H	Outer_Full	4.457	4.950	PASS
N30	15	5	DFT-16QAM	H	Outer_Full	4.484	5.090	PASS
N30	15	5	DFT-64QAM	H	Outer_Full	4.481	5.080	PASS
N30	15	5	DFT-256QAM	H	Outer_Full	4.477	5.160	PASS
N30	15	5	CP-QPSK	H	Outer_Full	4.470	5.050	PASS
N30	15	5	CP-16QAM	H	Outer_Full	4.482	5.100	PASS
N30	15	5	CP-64QAM	H	Outer_Full	4.485	5.060	PASS
N30	15	5	CP-256QAM	H	Outer_Full	4.469	5.070	PASS
N30	15	10	DFT-QPSK	L	Outer_Full	8.922	9.680	PASS
N30	15	10	DFT-PI2BPSK	L	Outer_Full	8.937	9.860	PASS
N30	15	10	DFT-16QAM	L	Outer_Full	8.958	9.700	PASS



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Report No.: SEWA2309000114RG02

Rev.: 01

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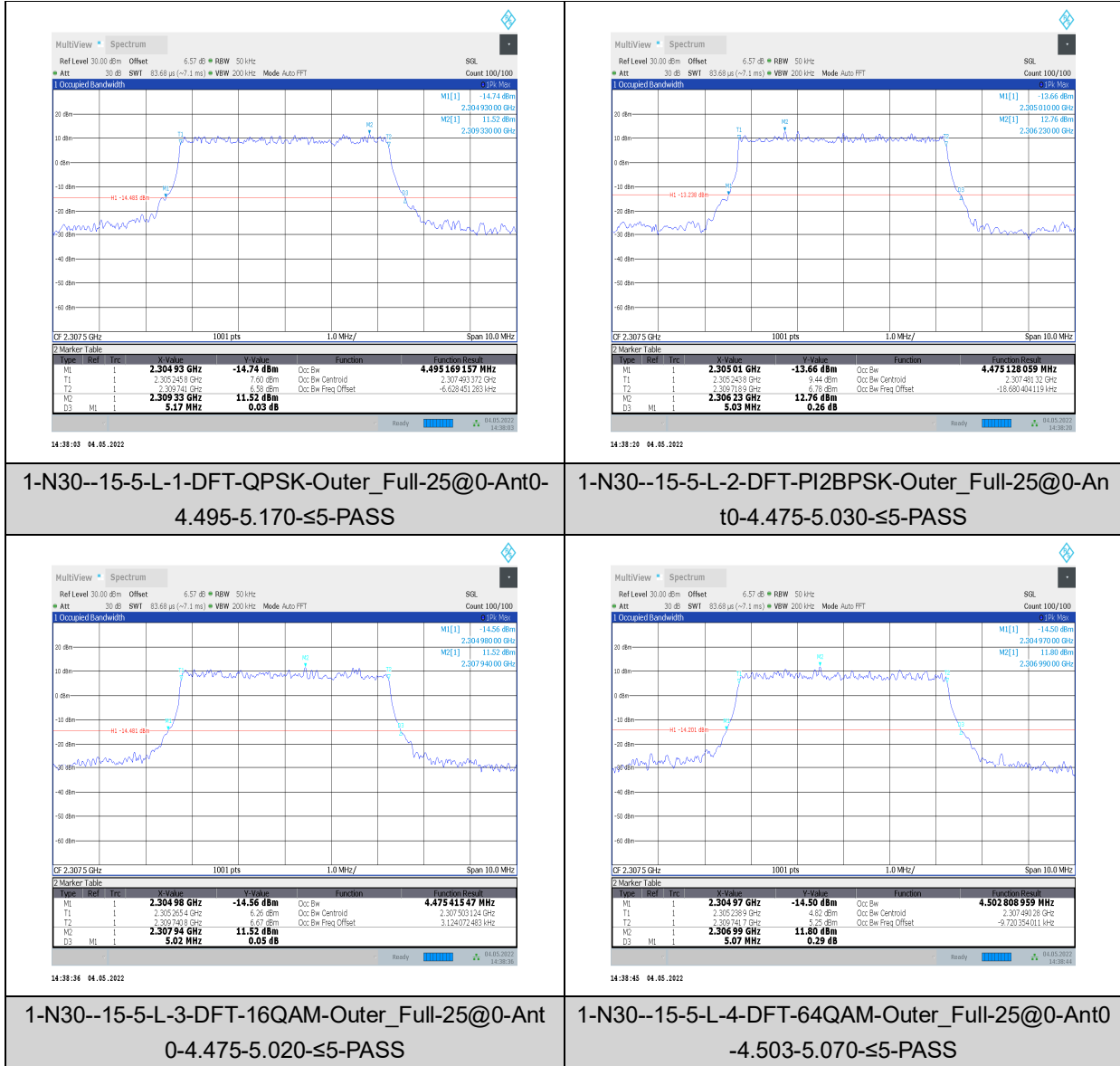
N30	15	10	DFT-64QAM	L	Outer_Full	8.951	9.640	PASS
N30	15	10	DFT-256QAM	L	Outer_Full	8.954	9.620	PASS
N30	15	10	CP-QPSK	L	Outer_Full	9.321	10.220	PASS
N30	15	10	CP-16QAM	L	Outer_Full	9.308	10.120	PASS
N30	15	10	CP-64QAM	L	Outer_Full	9.319	10.080	PASS
N30	15	10	CP-256QAM	L	Outer_Full	9.313	10.100	PASS
N30	15	10	DFT-QPSK	M	Outer_Full	8.933	9.620	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	8.919	9.360	PASS
N30	15	10	DFT-16QAM	M	Outer_Full	8.962	9.540	PASS
N30	15	10	DFT-64QAM	M	Outer_Full	8.947	9.660	PASS
N30	15	10	DFT-256QAM	M	Outer_Full	8.946	9.580	PASS
N30	15	10	CP-QPSK	M	Outer_Full	9.311	10.040	PASS
N30	15	10	CP-16QAM	M	Outer_Full	9.312	10.020	PASS
N30	15	10	CP-64QAM	M	Outer_Full	9.306	10.180	PASS
N30	15	10	CP-256QAM	M	Outer_Full	9.306	10.100	PASS
N30	15	10	DFT-QPSK	H	Outer_Full	8.965	9.580	PASS
N30	15	10	DFT-PI2BPSK	H	Outer_Full	8.945	9.780	PASS
N30	15	10	DFT-16QAM	H	Outer_Full	8.962	9.680	PASS
N30	15	10	DFT-64QAM	H	Outer_Full	8.957	9.680	PASS
N30	15	10	DFT-256QAM	H	Outer_Full	8.955	9.580	PASS
N30	15	10	CP-QPSK	H	Outer_Full	9.326	10.180	PASS
N30	15	10	CP-16QAM	H	Outer_Full	9.328	10.040	PASS
N30	15	10	CP-64QAM	H	Outer_Full	9.317	10.180	PASS
N30	15	10	CP-256QAM	H	Outer_Full	9.303	10.100	PASS



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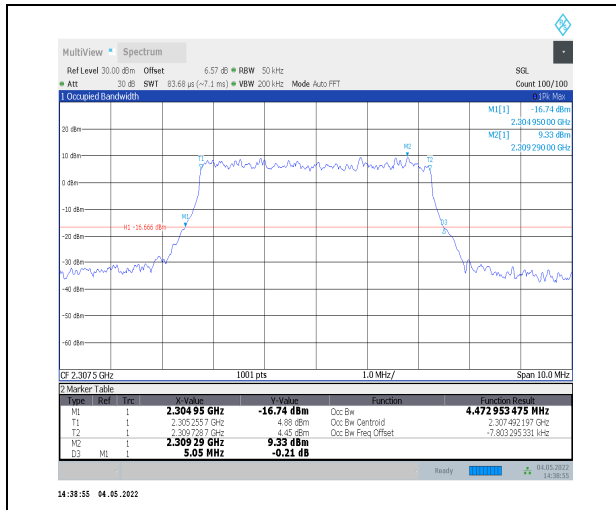
Test Graphs



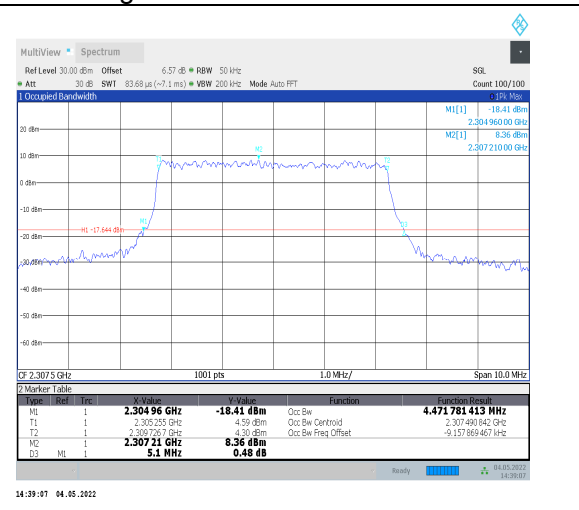
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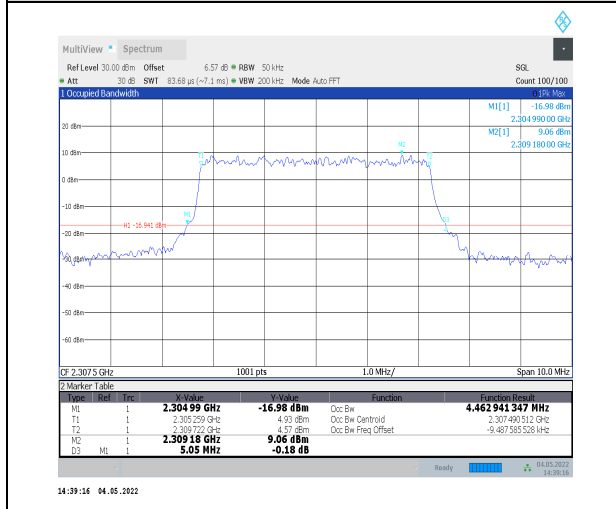
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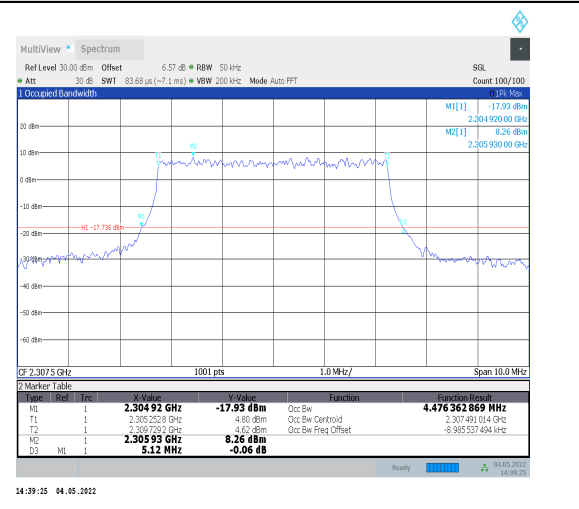
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1-N30--15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant0-4-472-5.100-≤ 5-PASS



1-N30--15-5-L-7-CP-16QAM-Outer_Full-25@0-Ant0-4.463-5.050-≤ 5-PASS



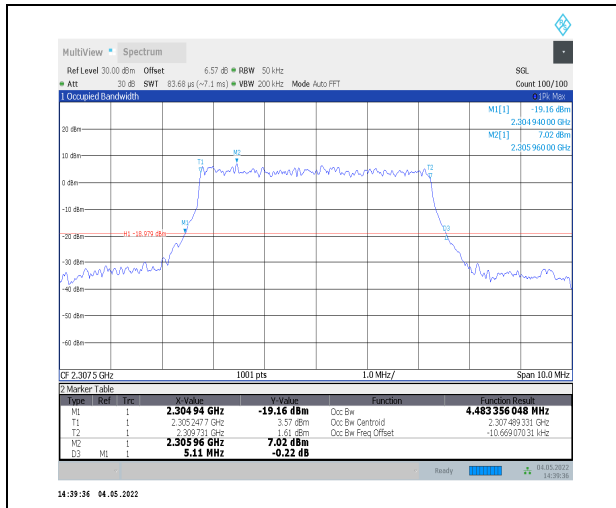
1-N30--15-5-L-8-CP-64QAM-Outer_Full-25@0-Ant0-4.476-5.120-≤ 5-PASS



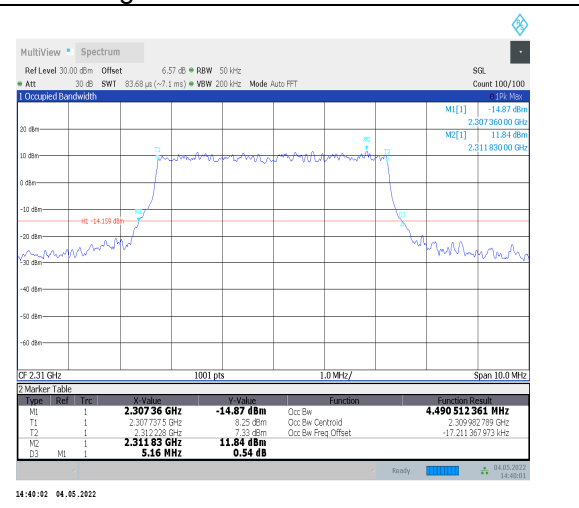
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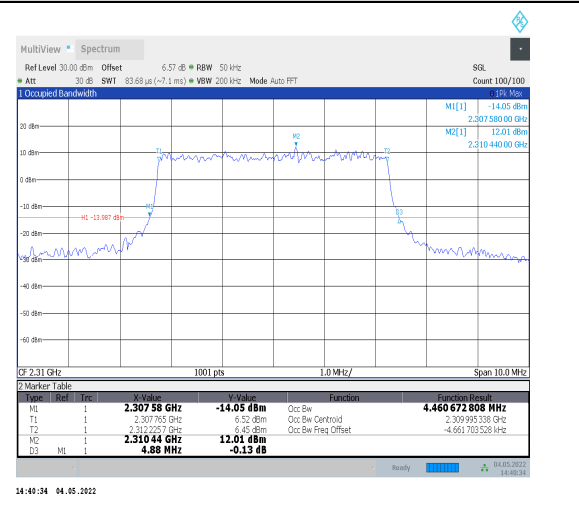
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1-N30--15-5-M-1-DFT-QPSK-Outer_Full-25@0-Ant0-
4.491-5.160-\leq5-PASS



1-N30--15-5-M-2-DFT-PI2BPSK-Outer_Full-25@0-A
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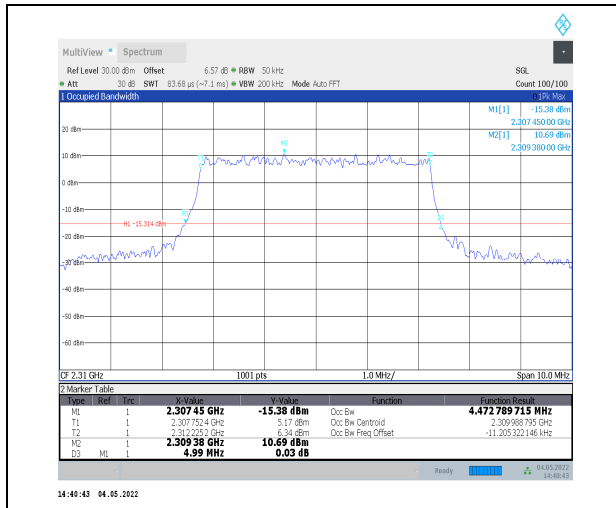
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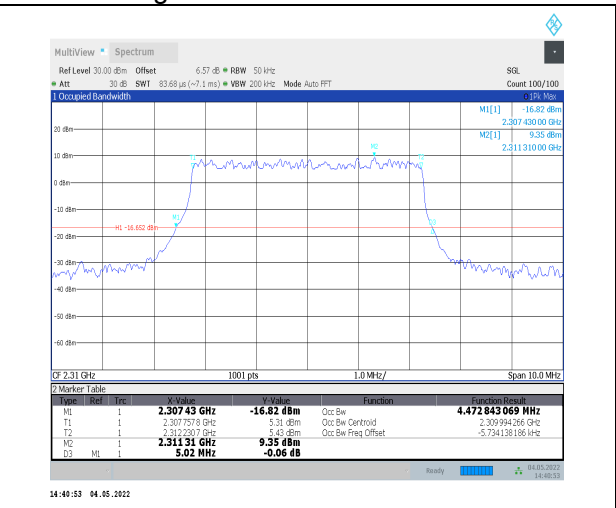
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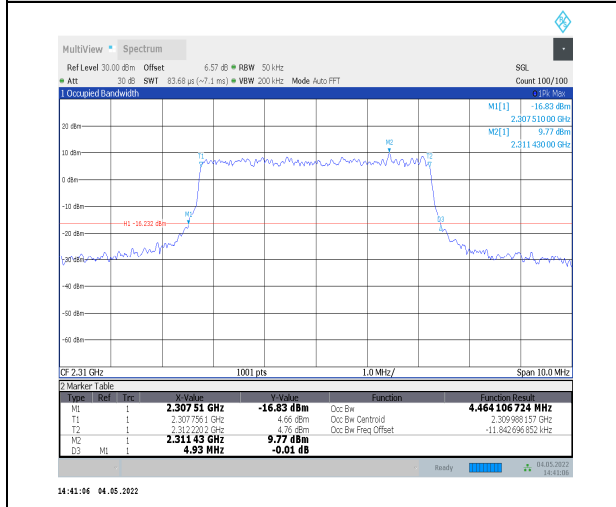
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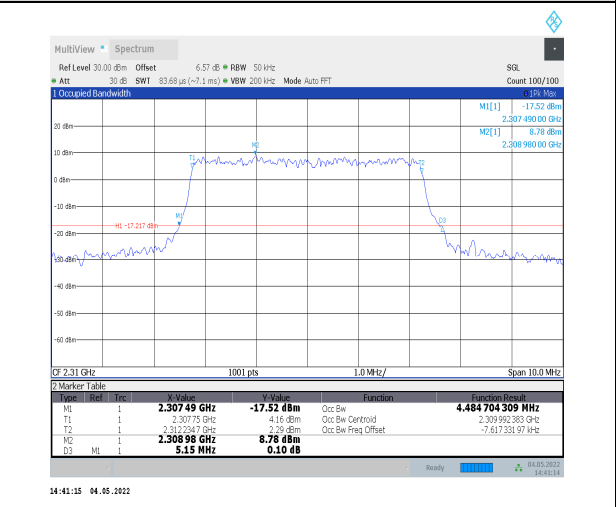
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0-4.473-4.990-\leq5-PASS



1-N30--15-5-M-5-DFT-256QAM-Outer_Full-25@0-An
t0-4.473-5.020-\leq5-PASS



1-N30--15-5-M-6-CP-QPSK-Outer_Full-25@0-Ant0-
4.464-4.930-\leq5-PASS



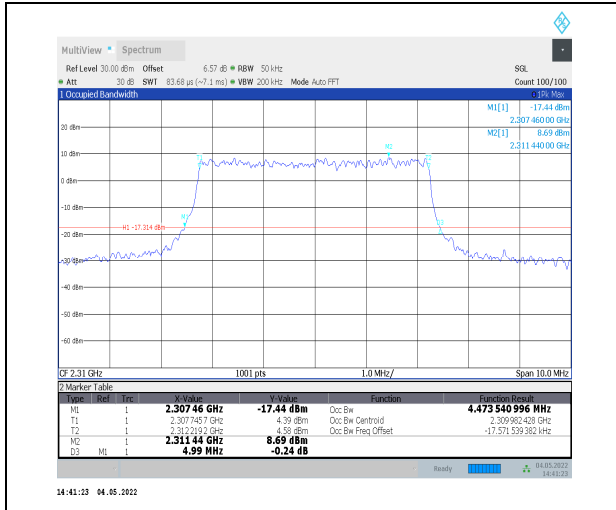
1-N30--15-5-M-7-CP-16QAM-Outer_Full-25@0-Ant0-
-4.485-5.150-\leq5-PASS



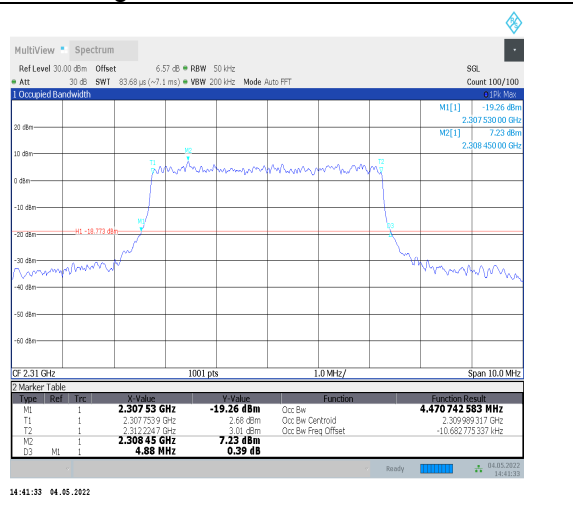
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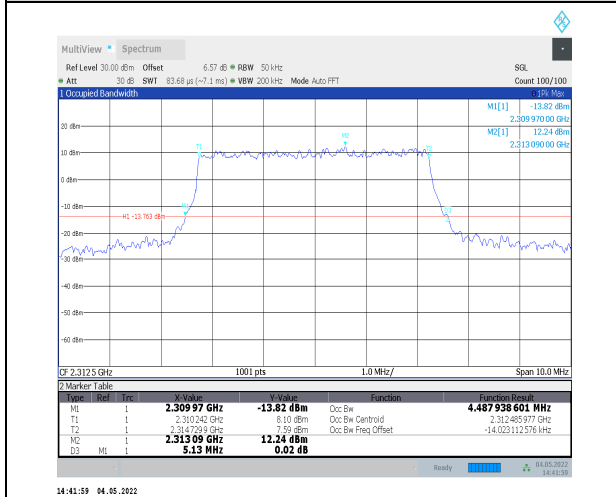
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1-N30--15-5-M-8-CP-64QAM-Outer_Full-25@0-Ant0
-4.474-4.990-≤5-PASS



1-N30--15-5-M-9-CP-256QAM-Outer_Full-25@0-Ant
0-4.471-4.880-≤5-PASS



1-N30--15-5-H-1-DFT-QPSK-Outer_Full-25@0-Ant0
4.488-5.130-≤5-PASS



1-N30--15-5-H-2-DFT-PI2BPSK-Outer_Full-25@0-Ant0
-4.457-4.950-≤5-PASS

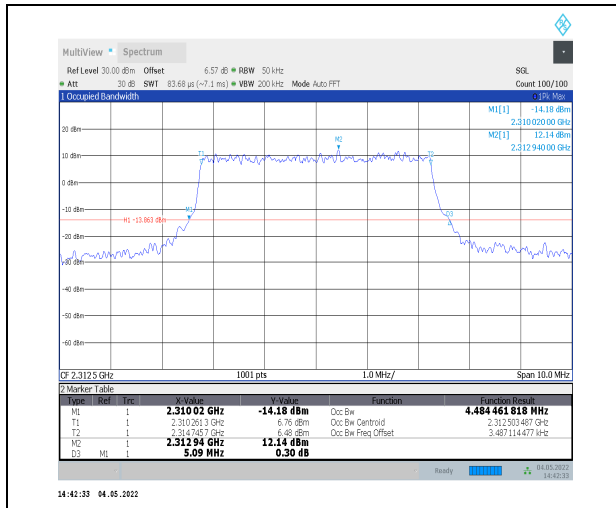


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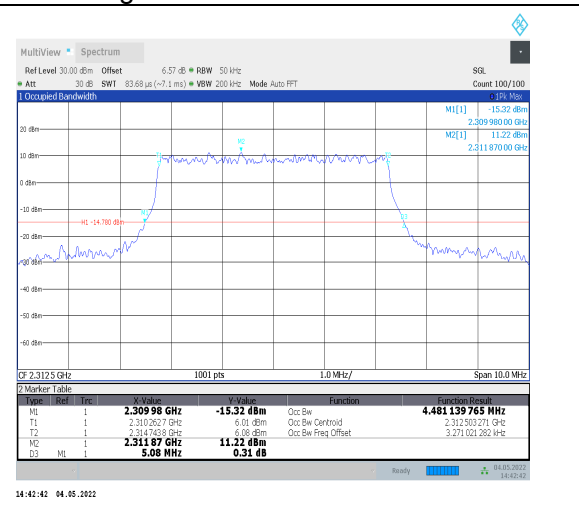
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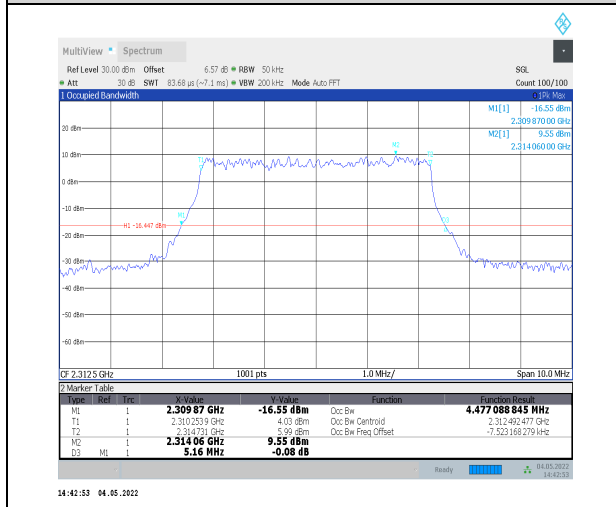
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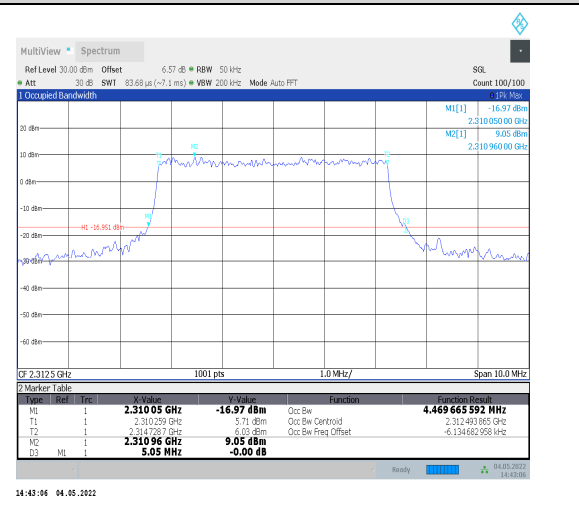
1-N30--15-5-H-3-DFT-16QAM-Outer_Full-25@0-Ant
0-4.484-5.090-≤5-PASS



1-N30--15-5-H-4-DFT-64QAM-Outer_Full-25@0-Ant
0-4.481-5.080-≤5-PASS



1-N30--15-5-H-5-DFT-256QAM-Outer_Full-25@0-Ant
t0-4.477-5.160-≤5-PASS



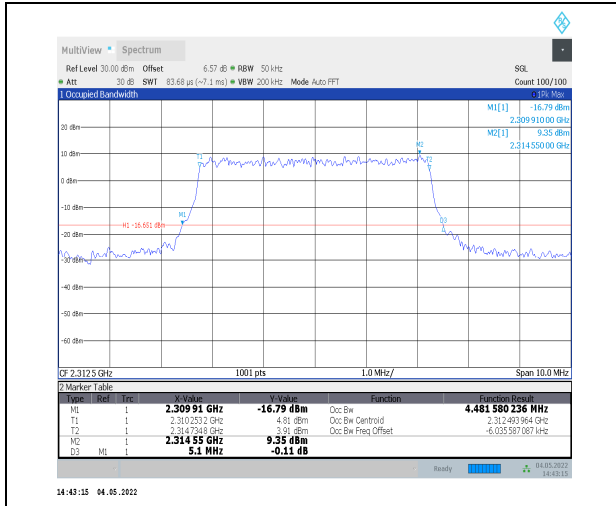
1-N30--15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant0-4
.47-5.050-≤5-PASS



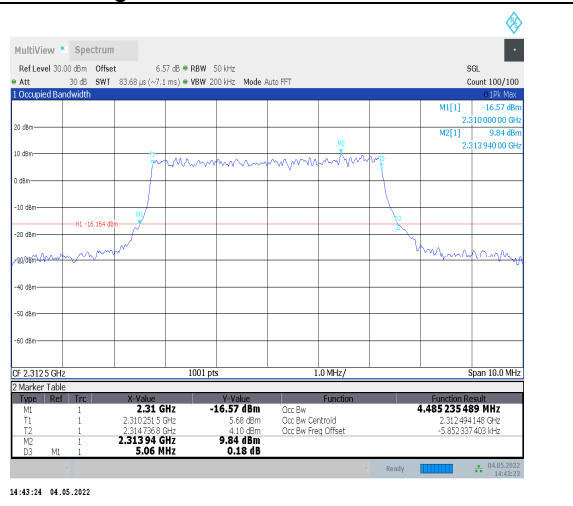
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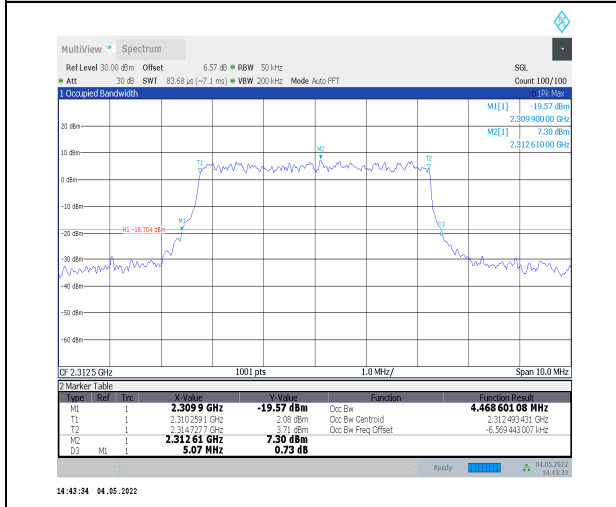
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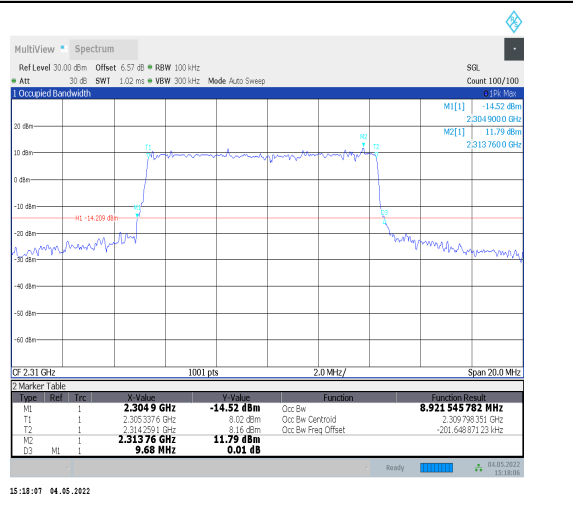
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-4.482-5.100-≤5-PASS



1-N30--15-5-H-8-CP-64QAM-Outer_Full-25@0-Ant0
4.485-5.060-≤5-PASS



1-N30--15-5-H-9-CP-256QAM-Outer_Full-25@0-Ant
0-4.469-5.070-≤5-PASS



1-N30--15-10-L-1-DFT-QPSK-Outer_Full-50@0-Ant0
-8.922-9.680-≤10-PASS

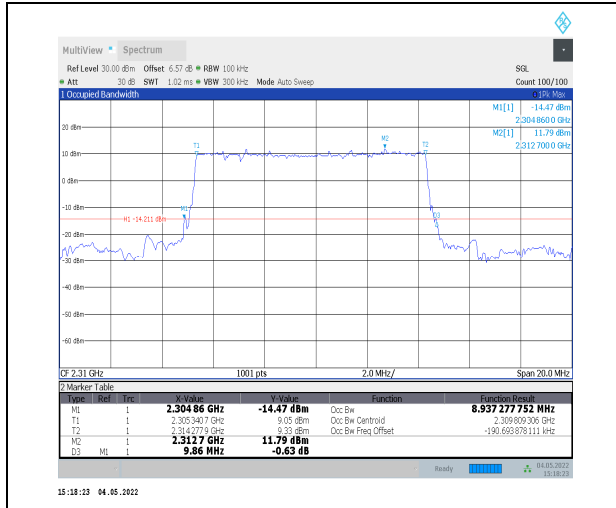


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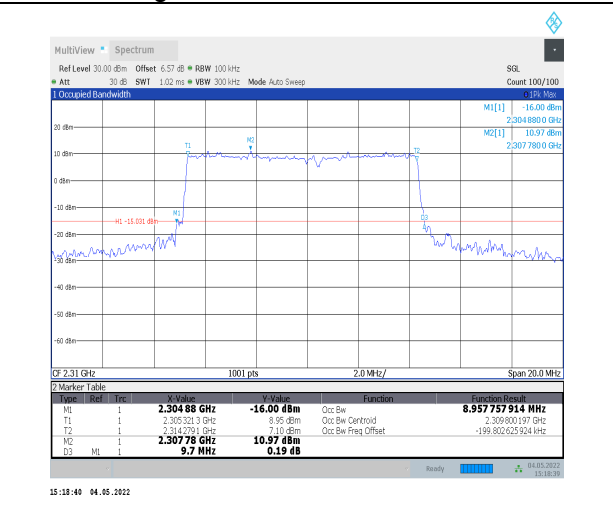
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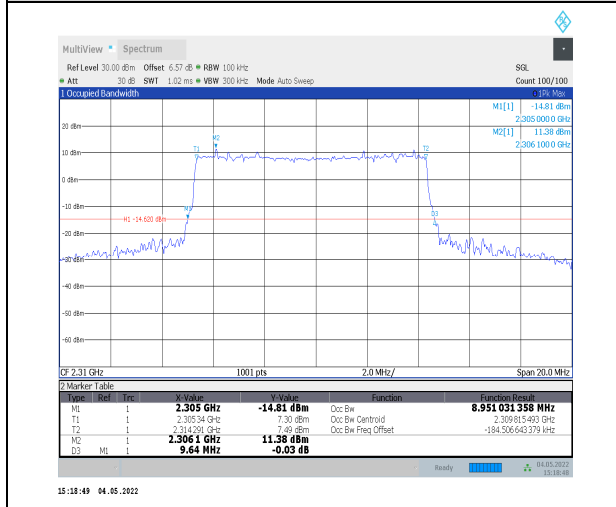
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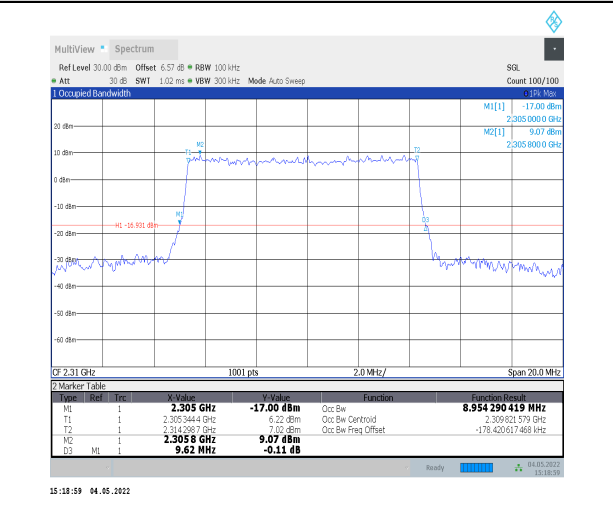
1-N30--15-10-L-2-DFT-PI2BPSK-Outer_Full-50@0-A
nt0-8.937-9.860≤10-PASS



1-N30--15-10-L-3-DFT-16QAM-Outer_Full-50@0-Ant
0-8.958-9.700≤10-PASS



1-N30--15-10-L-4-DFT-64QAM-Outer_Full-50@0-A
t0-8.951-9.640≤10-PASS



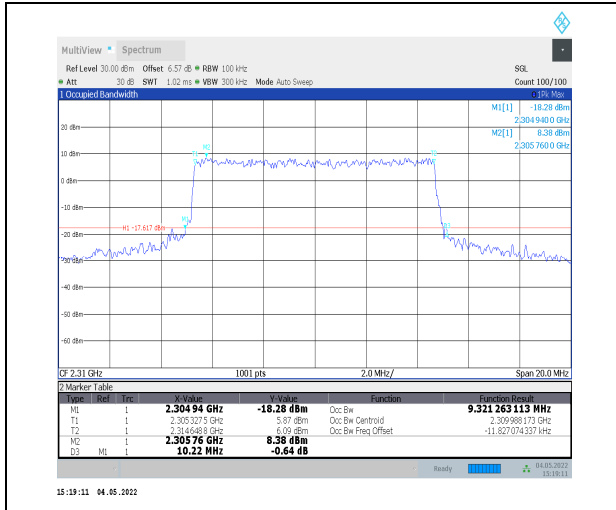
1-N30--15-10-L-5-DFT-256QAM-Outer_Full-50@0-A
nt0-8.954-9.620≤10-PASS



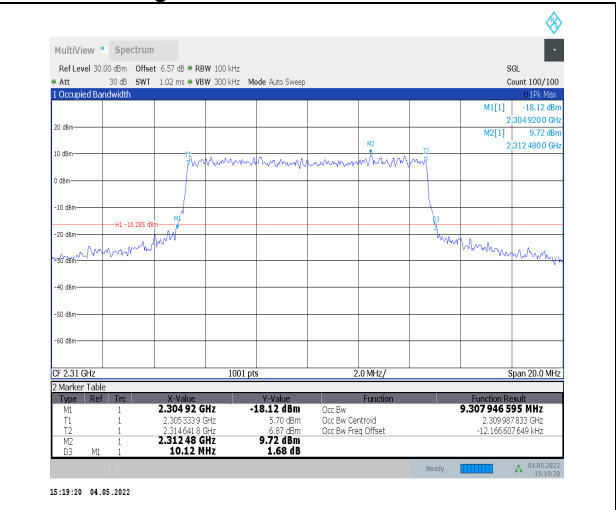
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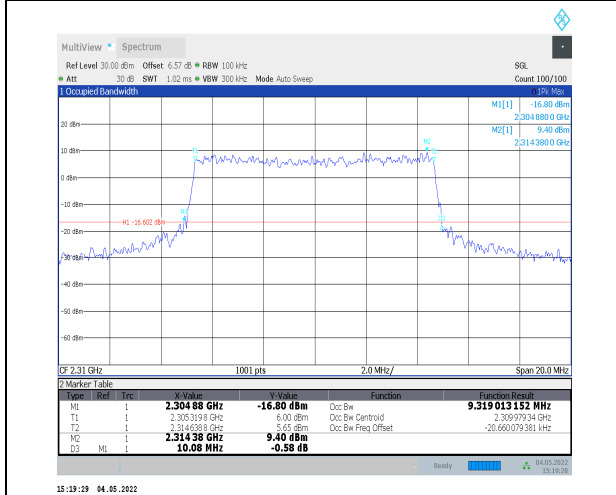
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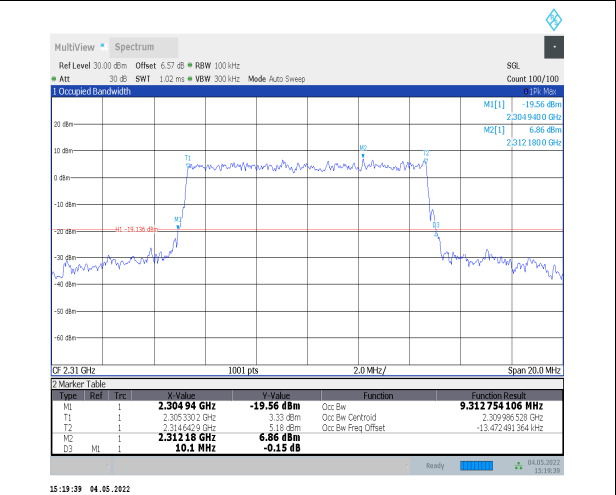
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9.321-10.220≤10-PASS



1-N30--15-10-L-7-CP-16QAM-Outer_Full-52@0-Ant0
-9.308-10.120≤10-PASS



1-N30--15-10-L-8-CP-64QAM-Outer_Full-52@0-Ant
0-9.319-10.080≤10-PASS



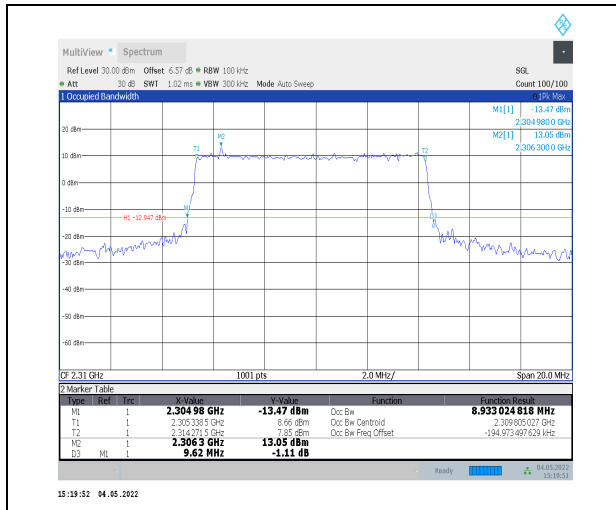
1-N30--15-10-L-9-CP-256QAM-Outer_Full-52@0-Ant
0-9.313-10.100≤10-PASS



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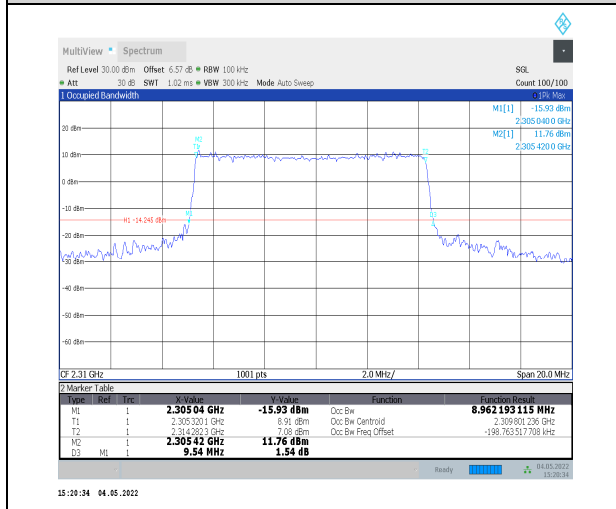
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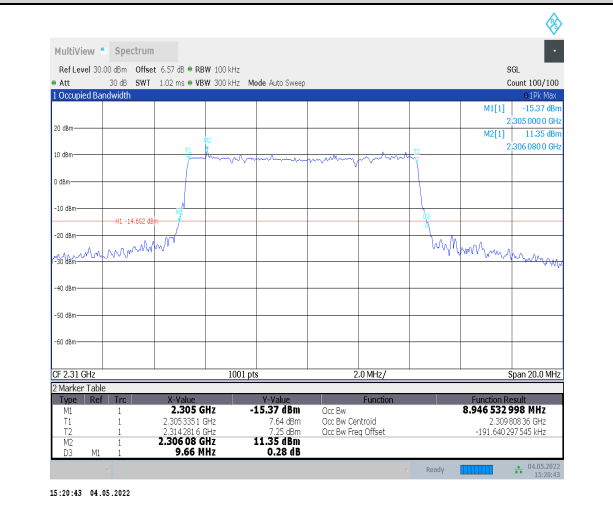
1-N30--15-10-M-1-DFT-QPSK-Outer_Full-50@0-Ant
0-8.933-9.620-<=10-PASS



1-N30--15-10-M-2-DFT-PI2BPSK-Outer_Full-50@0-
Ant0-8.919-9.360-<=10-PASS



1-N30--15-10-M-3-DFT-16QAM-Outer_Full-50@0-A
nt0-8.962-9.540-<=10-PASS



1-N30--15-10-M-4-DFT-64QAM-Outer_Full-50@0-An
t0-8.947-9.660-<=10-PASS

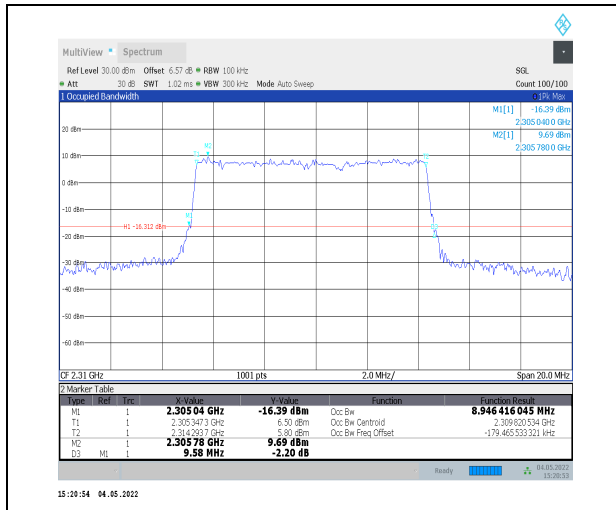


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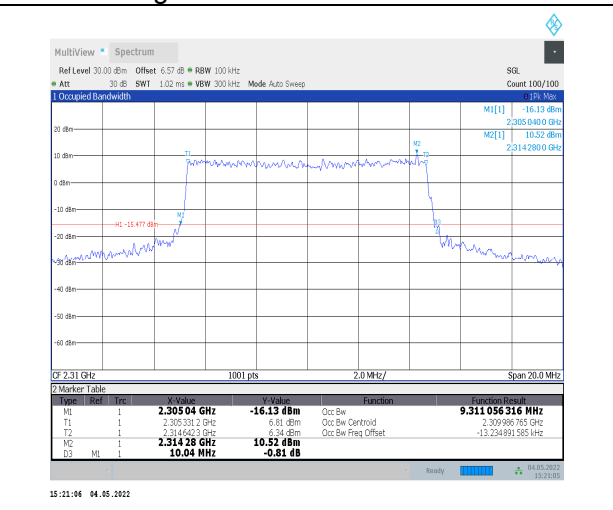
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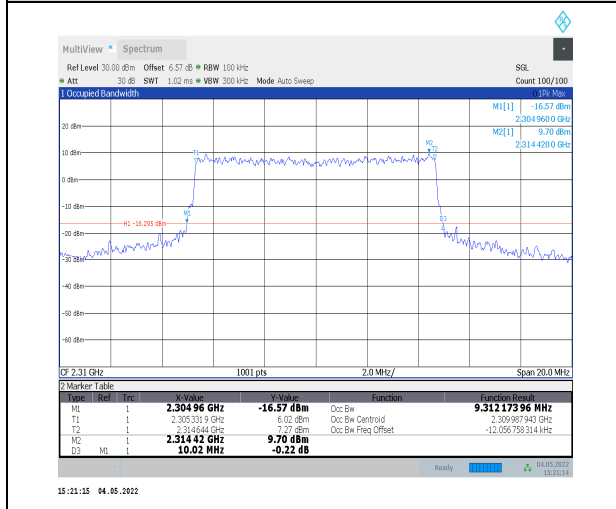
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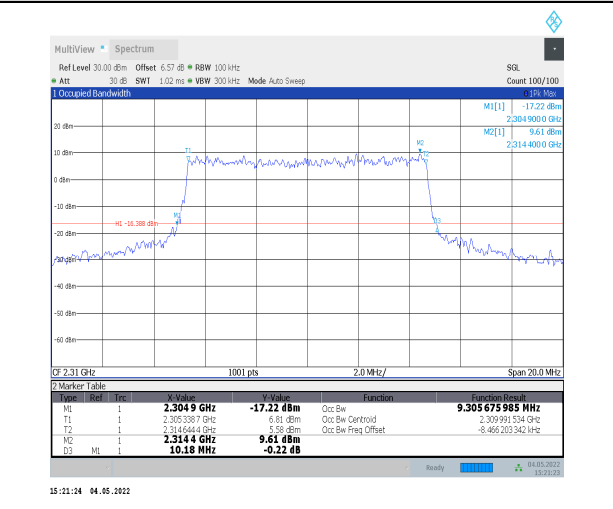
1-N30--15-10-M-5-DFT-256QAM-Outer_Full-50@0-Ant0-8.946-9.580-≤10-PASS



1-N30--15-10-M-6-CP-QPSK-Outer_Full-52@0-Ant0-9.311-10.040-≤10-PASS



1-N30--15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant0-9.312-10.020-≤10-PASS



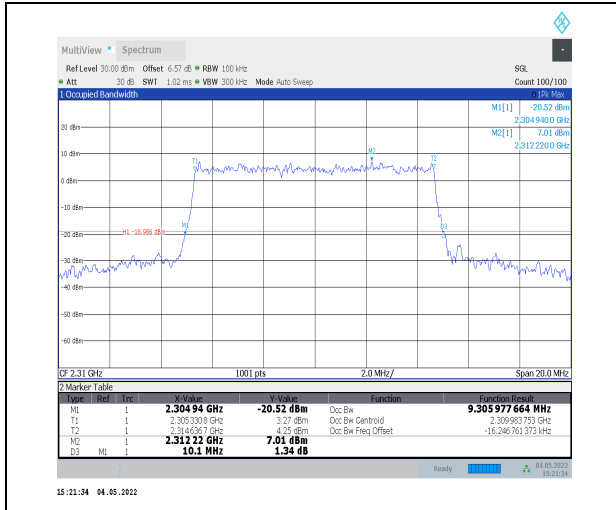
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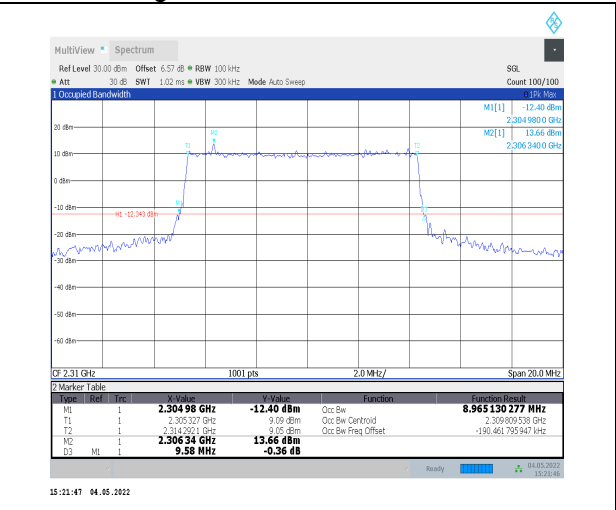
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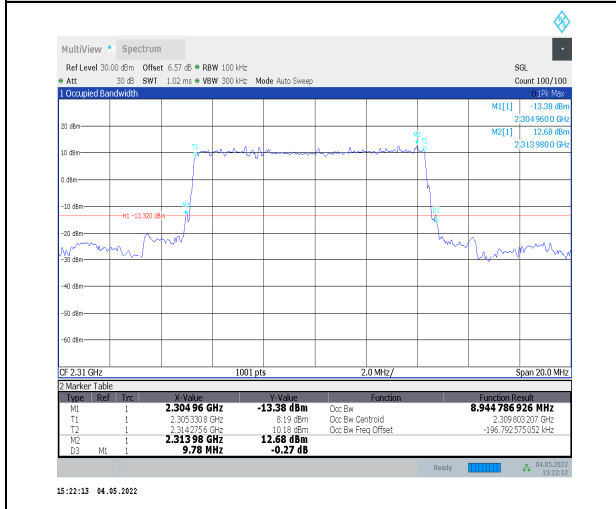
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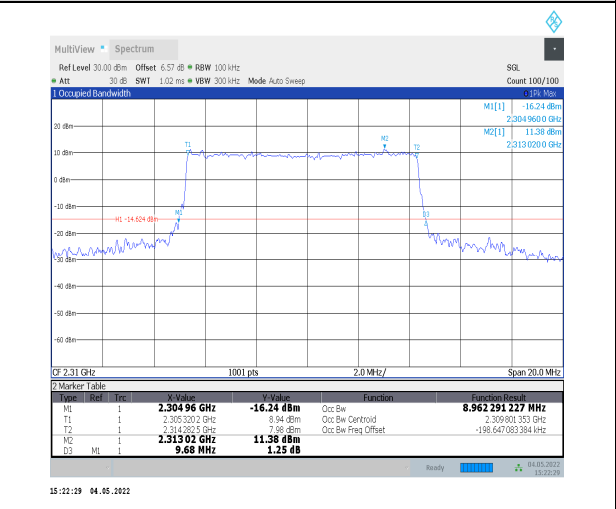
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nt0-9.306-10.100-<=10-PASS



1-N30--15-10-H-1-DFT-QPSK-Outer_Full-50@0-Ant
0-8.965-9.580-<=10-PASS



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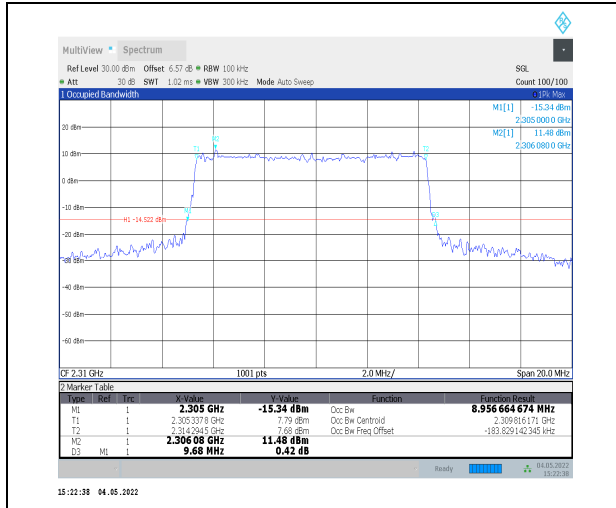
1-N30--15-10-H-3-DFT-16QAM-Outer_Full-50@0-Ant0-8.962-9.680-<=10-PASS



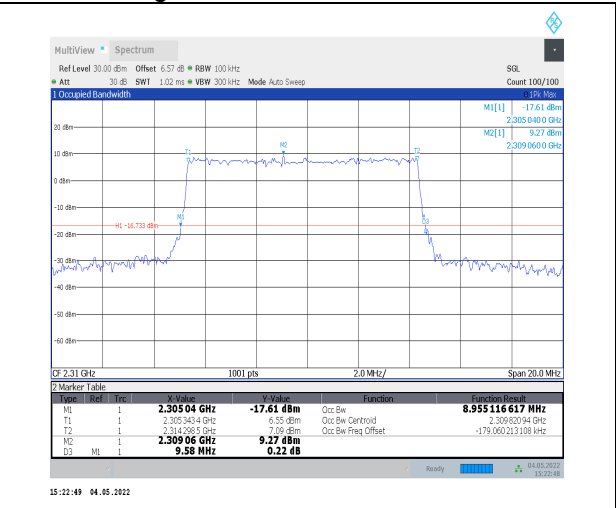
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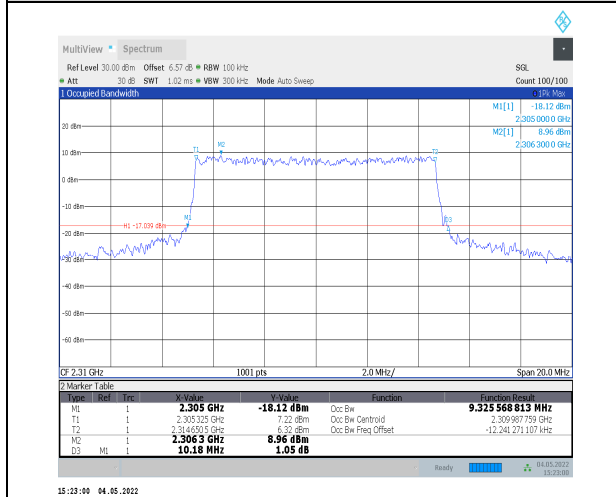
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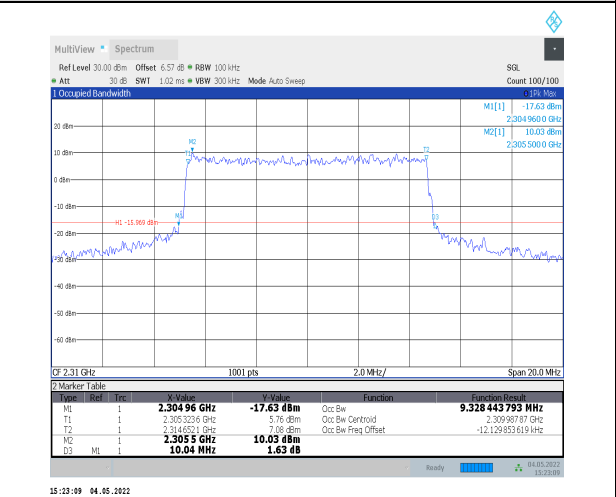
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t0-8.957-9.680-≤10-PASS



1-N30--15-10-H-5-DFT-256QAM-Outer_Full-50@0-A
nt0-8.955-9.580-≤10-PASS



1-N30--15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant0
9.326-10.180-≤10-PASS



1-N30--15-10-H-7-CP-16QAM-Outer_Full-52@0-Ant
0-9.328-10.040-≤10-PASS

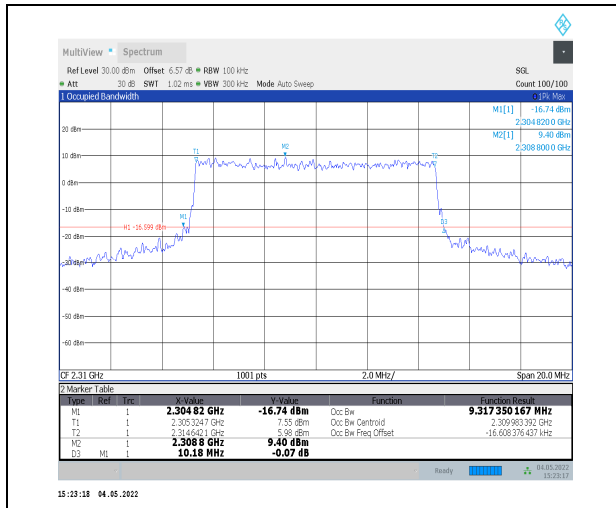


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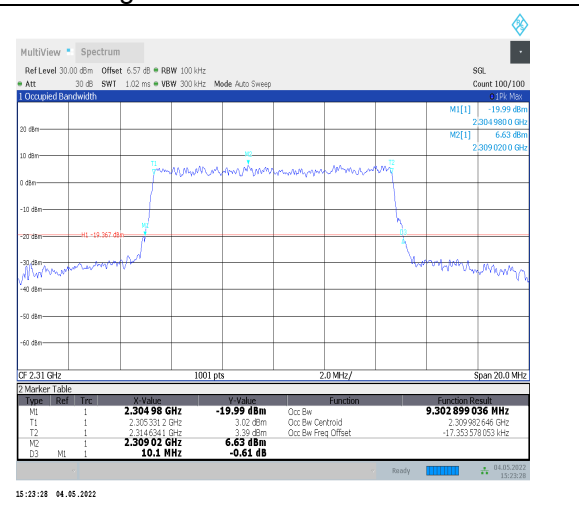
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1-N30--15-10-H-8-CP-64QAM-Outer_Full-52@0-An
0-9.317-10.180-≤10-PASS



1-N30--15-10-H-9-CP-256QAM-Outer_Full-52@0-An
t0-9.303-10.100-≤10-PASS



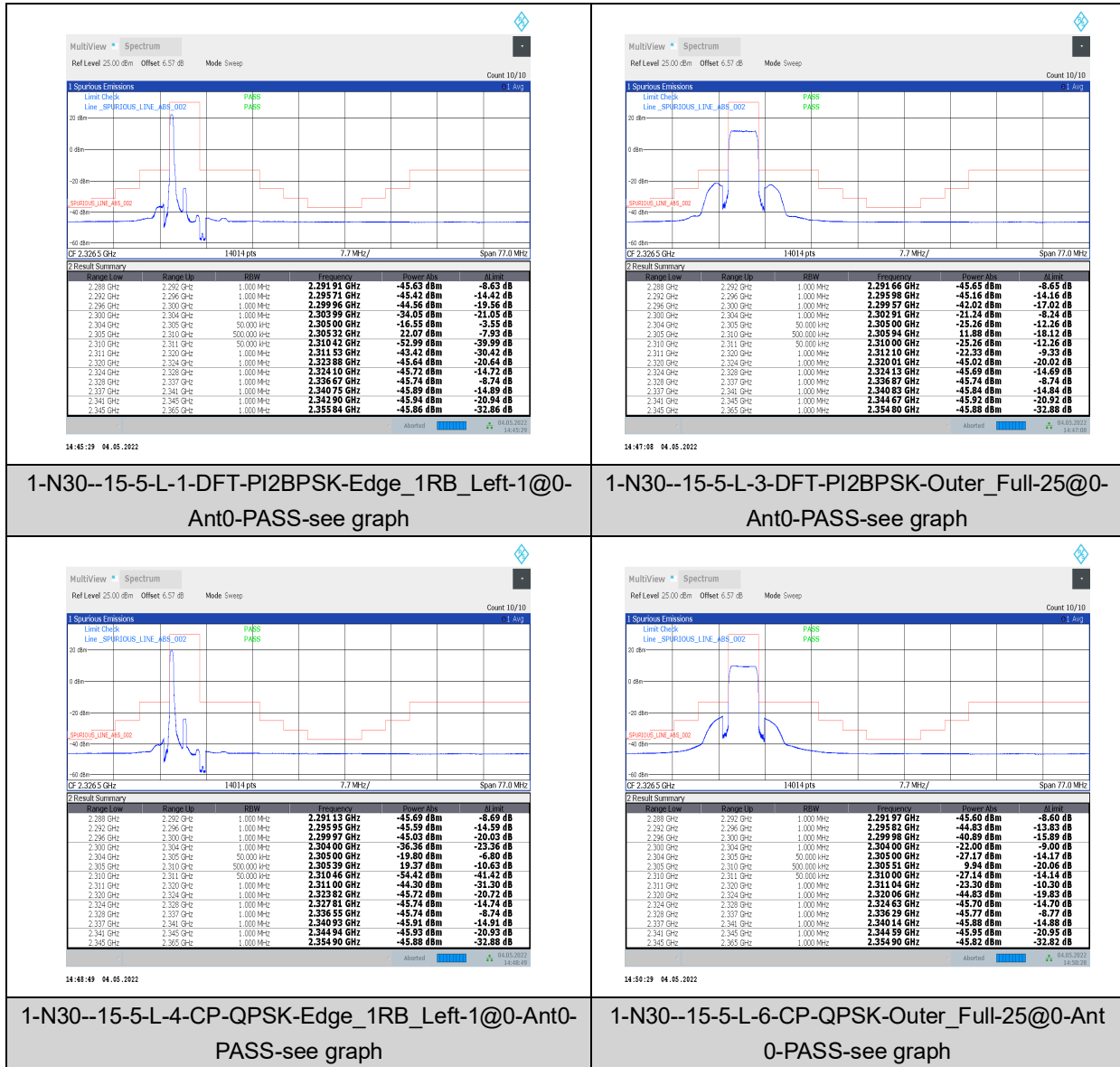
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Band Edge for SA

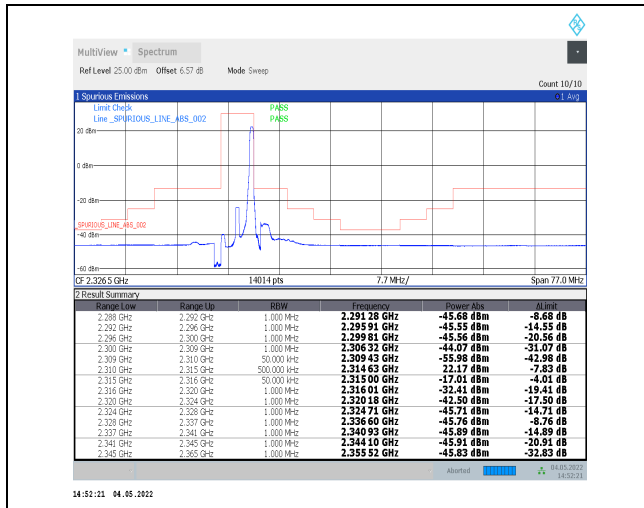
Test Graphs



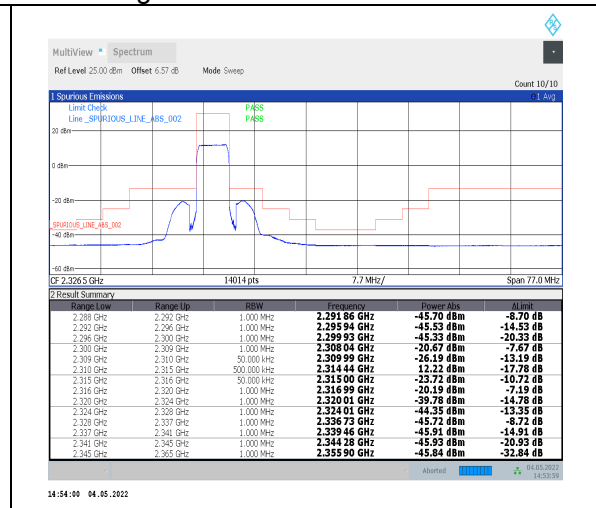
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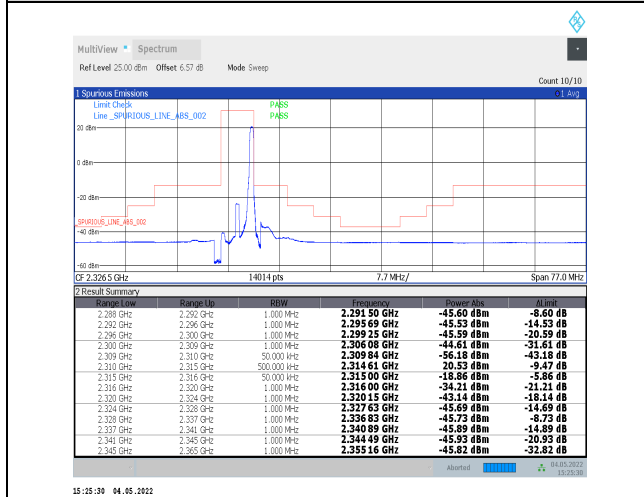
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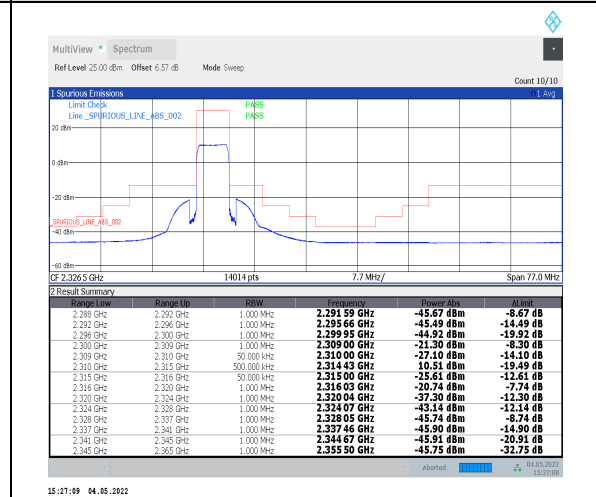
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4-Ant0-PASS-see graph



1-N30--15-5-H-3-DFT-PI2BPSK-Outer_Full-25@0
-Ant0-PASS-see graph



1-N30--15-5-H-5-CP-QPSK-Edge_1RB_Right-1@24-A
nt0-PASS-see graph



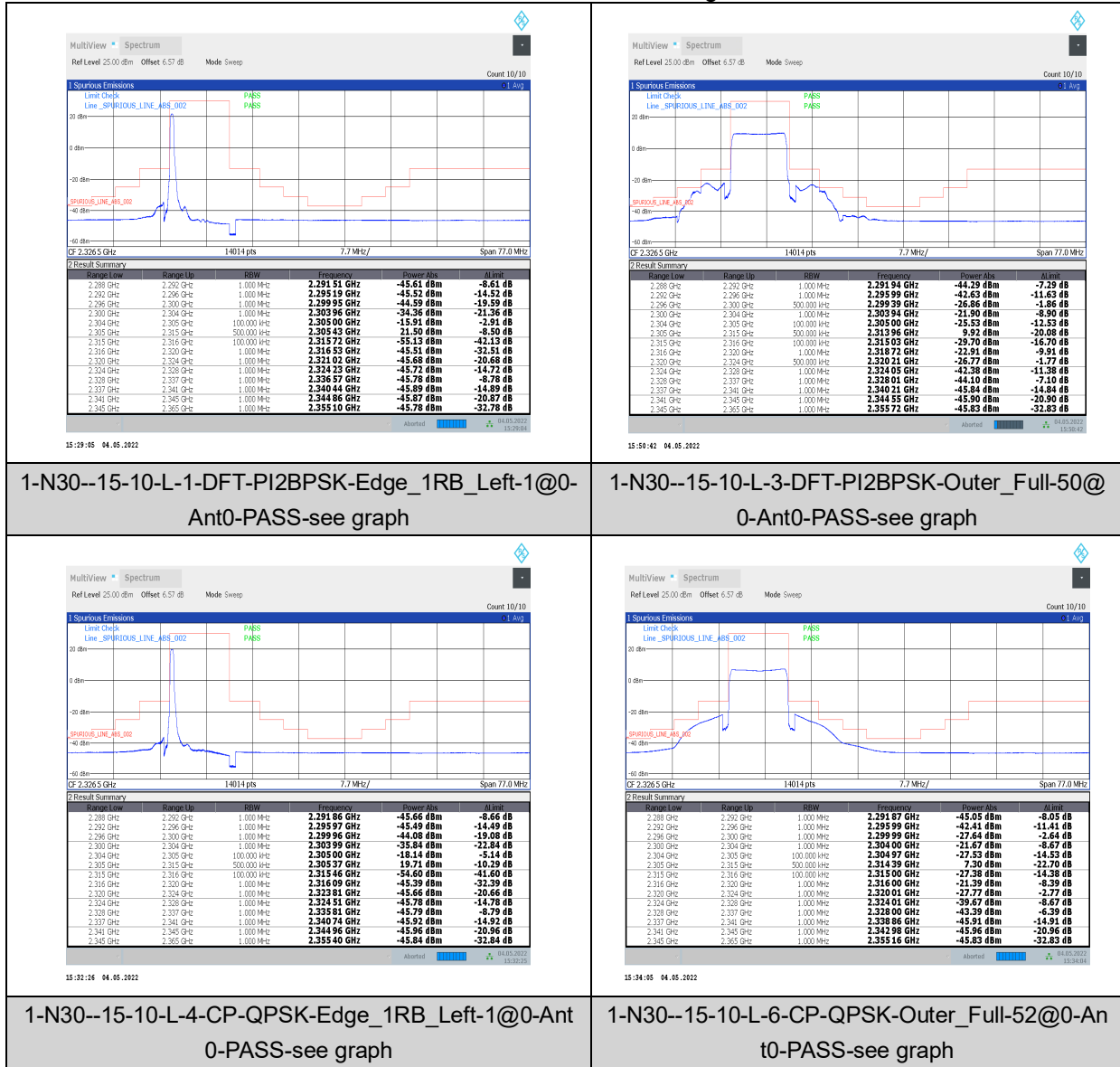
1-N30--15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant
0-PASS-see graph



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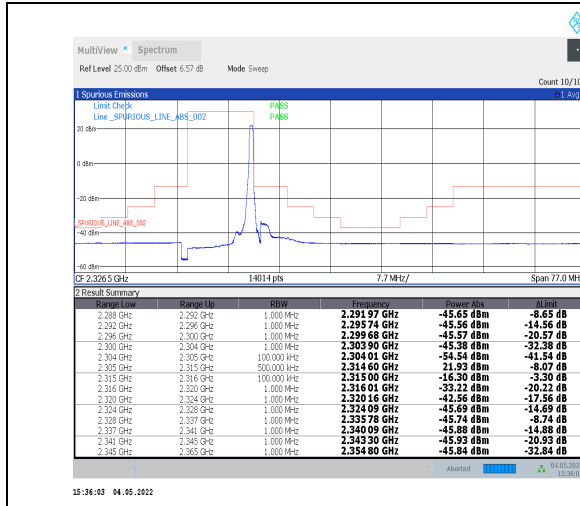
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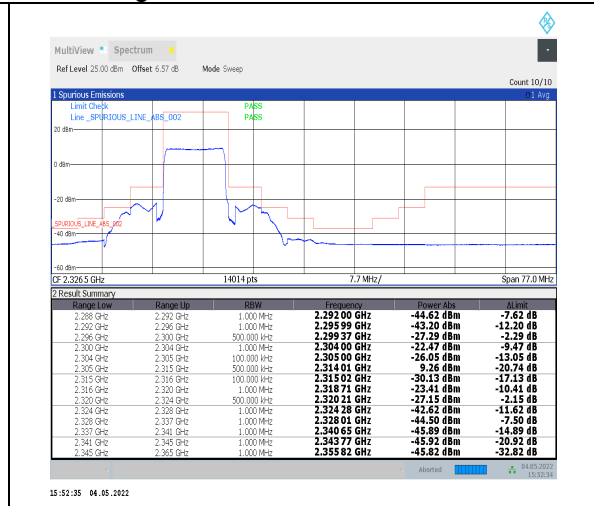
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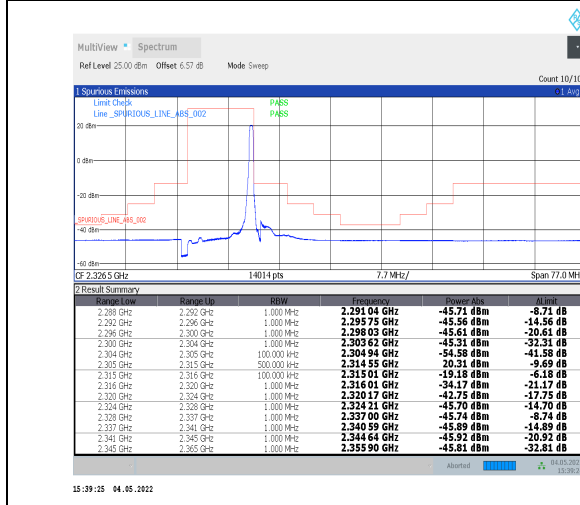
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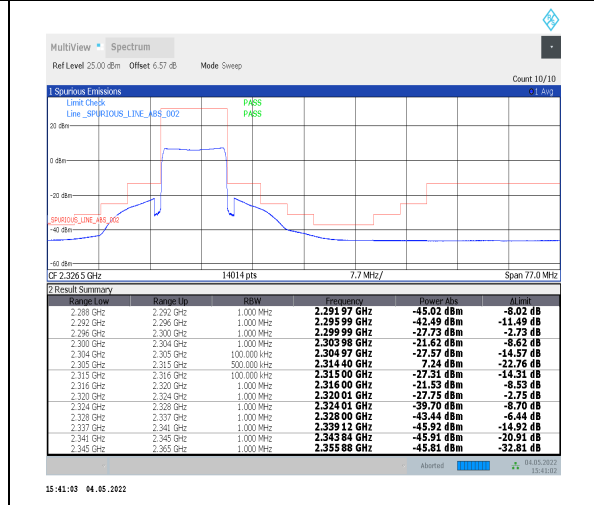
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1-N30--15-10-H-3-DFT-PI2BPSK-Outer_Full-50@0-Ant0-PASS-see graph



1-N30--15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-Ant0-PASS-see graph



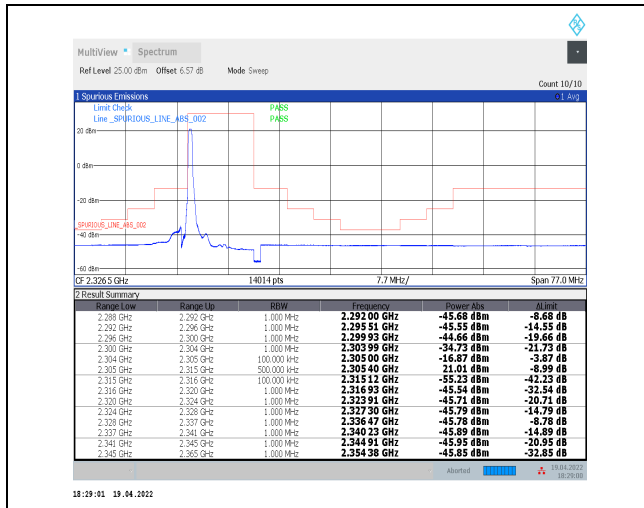
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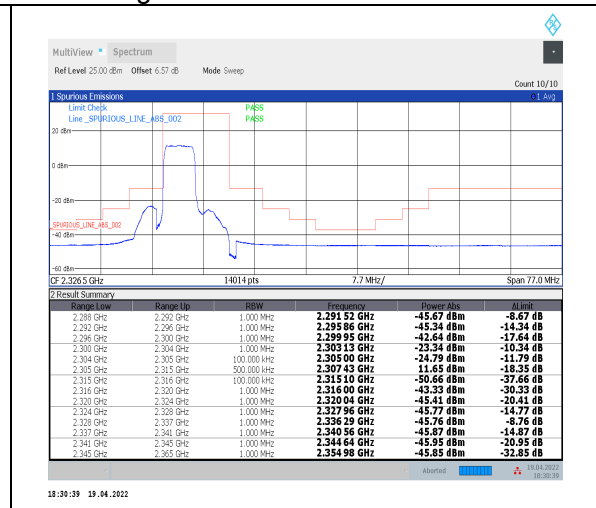
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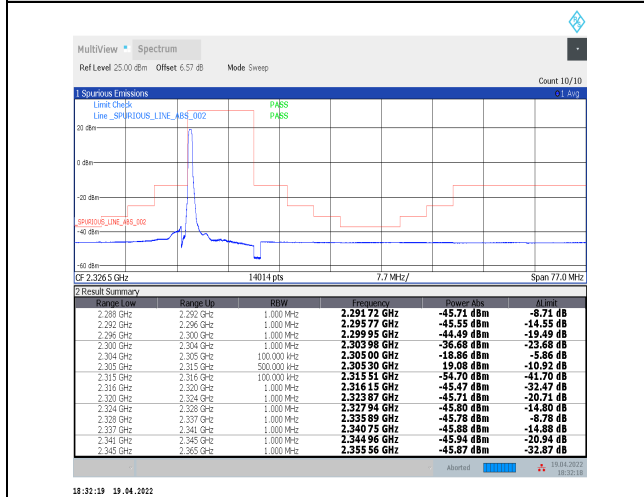
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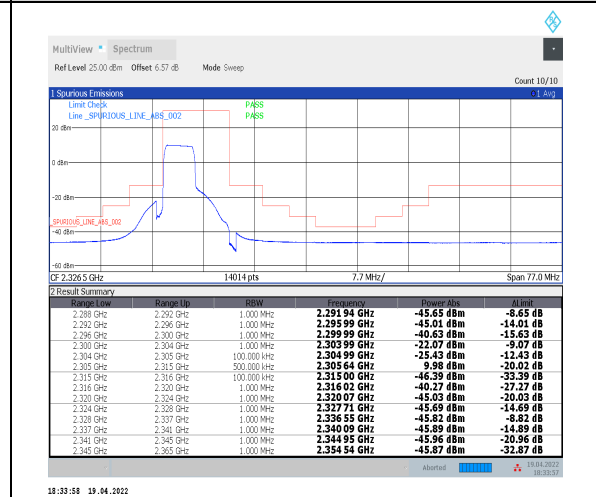
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1-N30--30-10-L-3-DFT-PI2BPSK-Outer_Full-24@0-Ant0-PASS-see graph



1-N30--30-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-PASS-see graph



1-N30--30-10-L-6-CP-QPSK-Outer_Full-24@0-Ant0-PASS-see graph



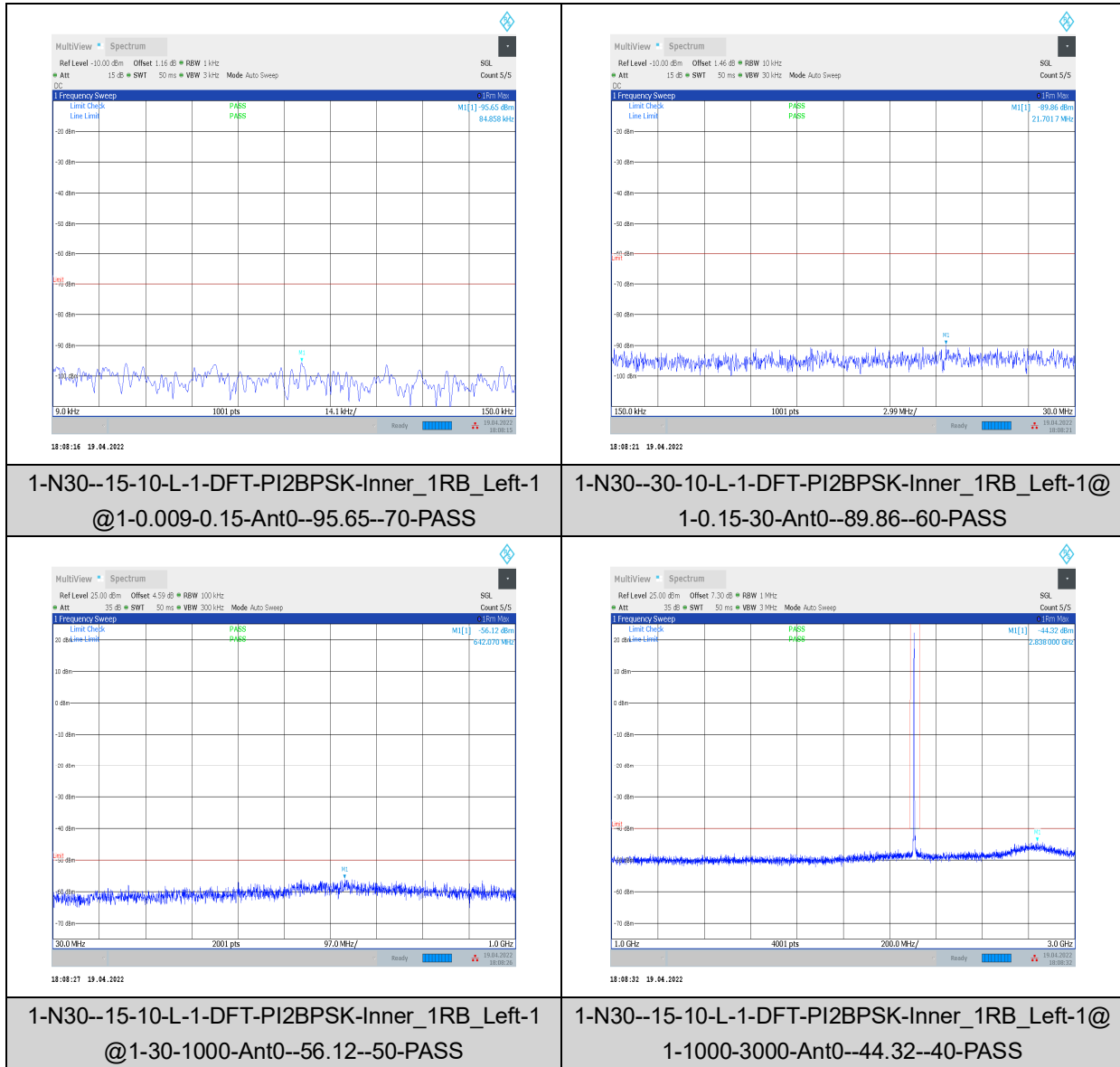
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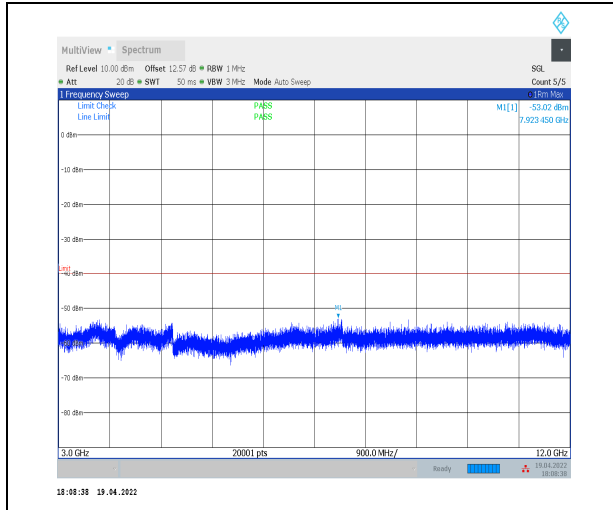
Test Graphs



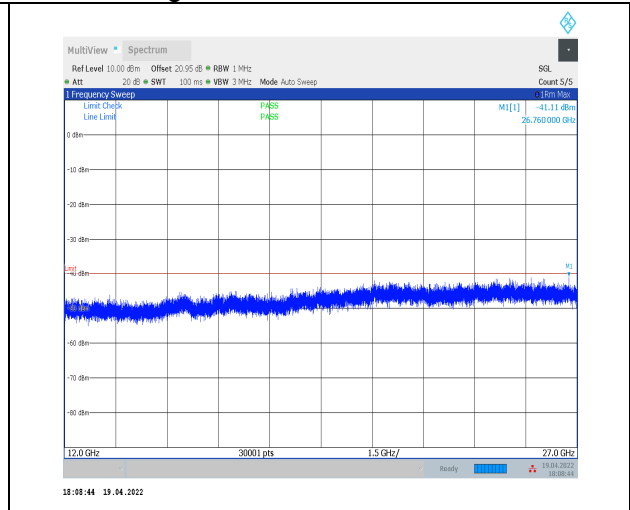
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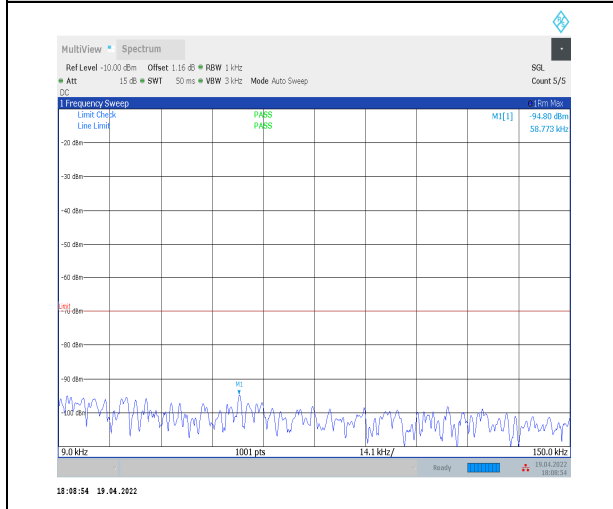
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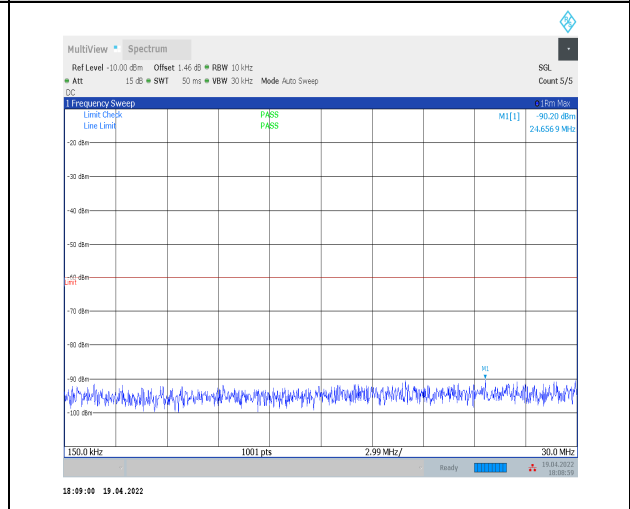
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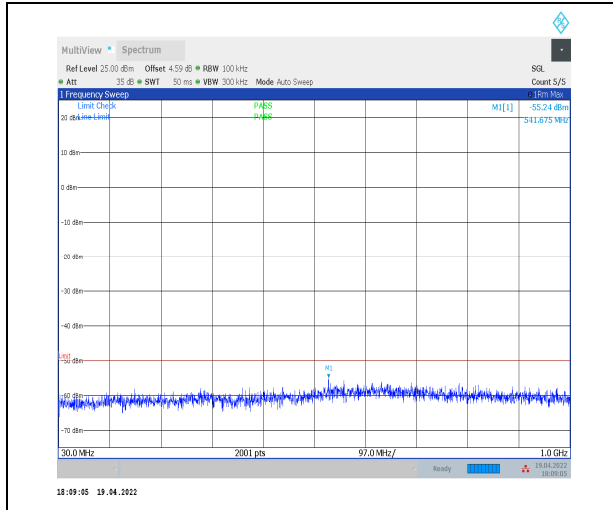
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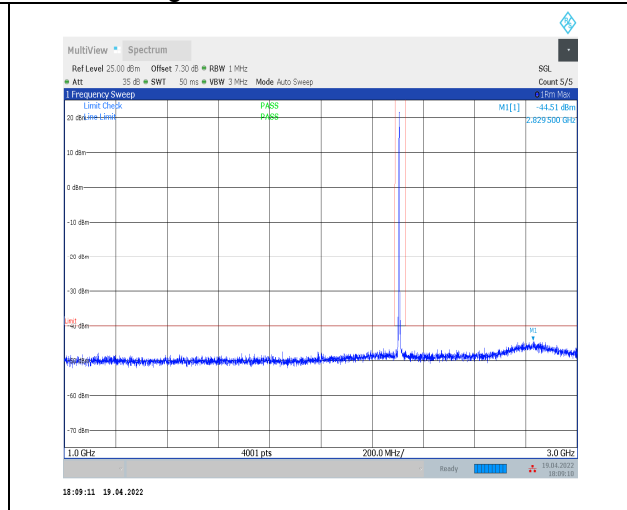
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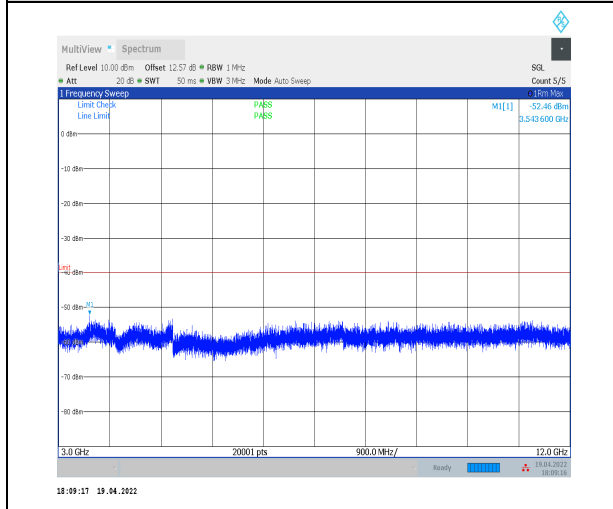
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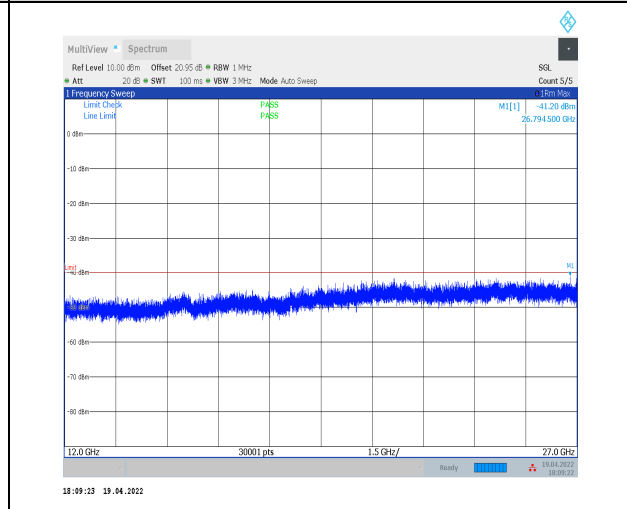
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1-N30--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-1000-3000-Ant0--44.51--40-PASS



1-N30--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-3000-12000-Ant0--52.46--40-PASS



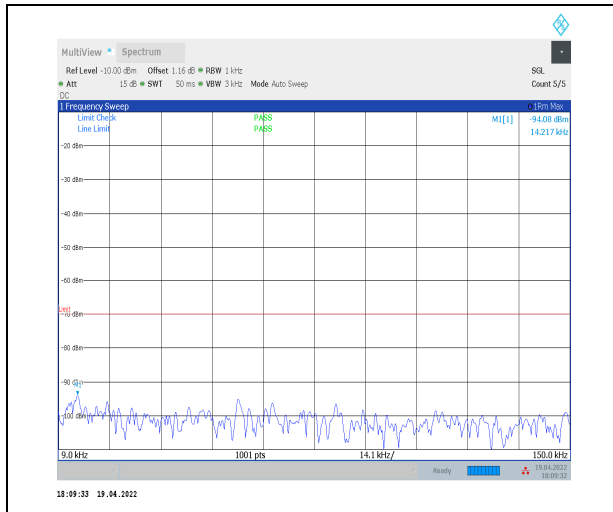
1-N30--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-12000-27000-Ant0--41.20--40-PASS



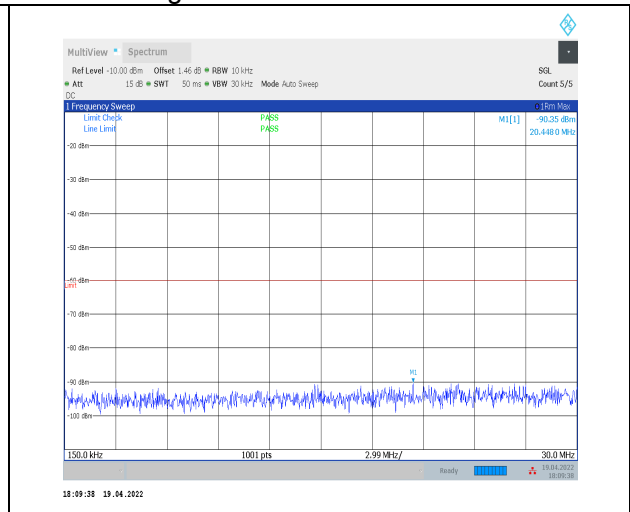
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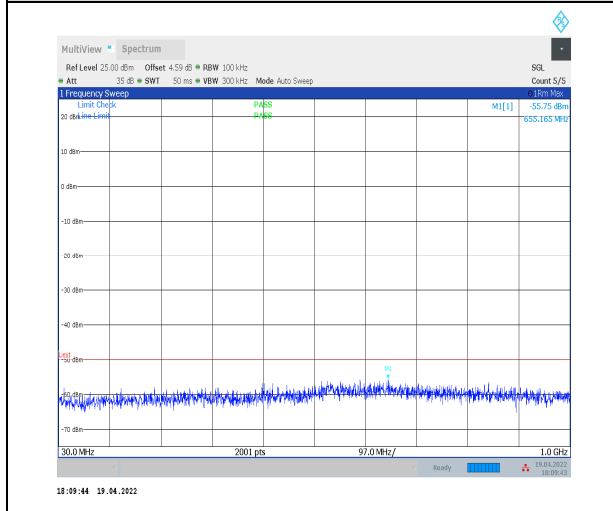
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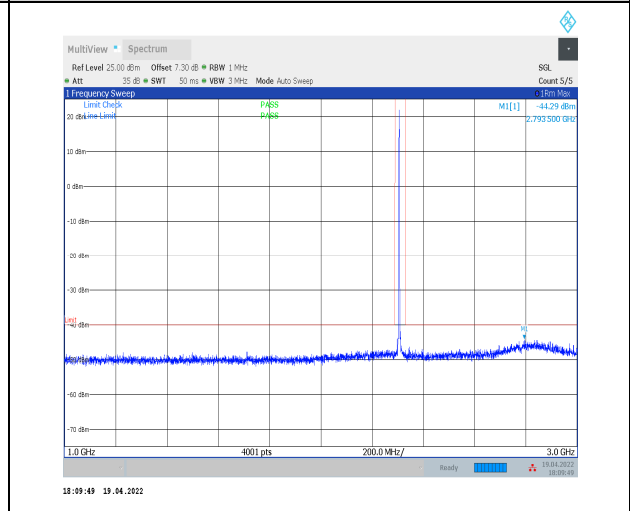
1-N30--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-0.009-0.15-Ant0--94.08--70-PASS



1-N30--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-0.15-30-Ant0--90.35--60-PASS



1-N30--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-30-1000-Ant0--55.75--50-PASS



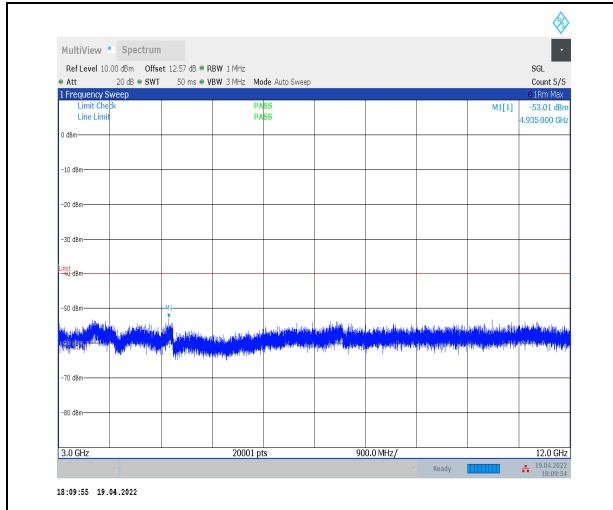
1-N30--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-1000-3000-Ant0--44.29--40-PASS



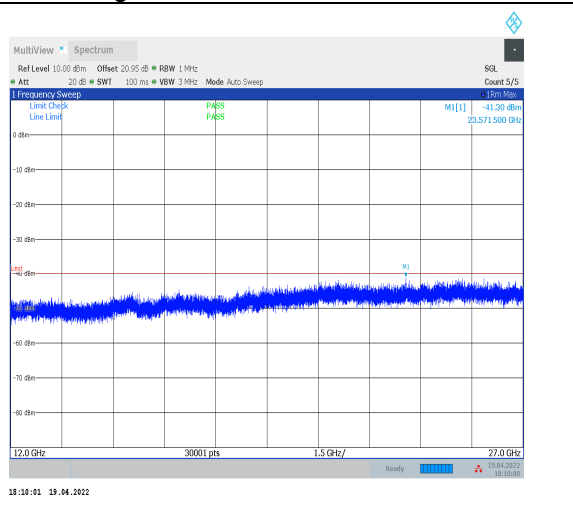
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1-N30--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-3000-12000-Ant0--53.01--40-PASS



1-N30--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-12000-27000-Ant0--41.30--40-PASS



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Field Strength of Spurious Radiation

Test Band = NR SA Band 30 BW 10M_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4555	42.84	-45.69	30.42	-67.69	-40.00	27.69	Horizontal
2	6811	41.64	-44.16	34.86	-62.92	-40.00	22.92	Horizontal
3	7760.5	38.78	-42.63	36.70	-62.41	-40.00	22.41	Horizontal
4	9565.5	35.13	-39.86	37.37	-62.62	-40.00	22.62	Horizontal
5	14523	26.50	-34.94	41.11	-62.59	-40.00	22.59	Horizontal
6	16459.5	28.57	-34.10	40.62	-60.17	-40.00	20.17	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611	45.35	-45.66	30.54	-65.03	-40.00	25.03	Vertical
2	6917	44.70	-44.01	35.05	-59.52	-40.00	19.52	Vertical
3	8943.5	37.04	-41.14	36.33	-63.03	-40.00	23.03	Vertical
4	11168.5	30.58	-37.57	38.72	-63.54	-40.00	23.54	Vertical
5	15153.5	26.90	-34.40	40.98	-61.78	-40.00	21.78	Vertical
6	17110.5	27.72	-34.51	42.80	-59.25	-40.00	19.25	Vertical



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

Test Band = NR SA Band 30 BW 5M_ TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4133	42.51	-45.76	29.42	-69.09	-40.00	29.09	Horizontal
2	6504.5	41.21	-44.60	34.31	-64.34	-40.00	24.34	Horizontal
3	9560.5	35.61	-39.89	37.36	-62.18	-40.00	22.18	Horizontal
4	12888.5	27.98	-37.08	39.07	-65.29	-40.00	25.29	Horizontal
5	14429.5	26.55	-34.81	41.07	-62.45	-40.00	22.45	Horizontal
6	17241.5	29.30	-35.19	43.39	-57.77	-40.00	17.77	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4243	42.98	-45.67	29.68	-68.27	-40.00	28.27	Vertical
2	6706.5	41.46	-43.83	34.67	-62.96	-40.00	22.96	Vertical
3	8402.5	38.49	-41.45	36.60	-61.63	-40.00	21.63	Vertical
4	10516.5	31.67	-38.75	38.46	-63.88	-40.00	23.88	Vertical
5	13907.5	28.04	-35.47	40.73	-61.96	-40.00	21.96	Vertical
6	17969	30.02	-34.56	46.66	-53.14	-40.00	13.14	Vertical



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Test Band = NR SA Band 30 BW 5M_ TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3788.5	42.75	-45.87	28.89	-69.49	-40.00	29.49	Horizontal
2	5539	41.68	-45.17	32.61	-66.15	-40.00	26.15	Horizontal
3	7408	39.75	-43.39	36.34	-62.56	-40.00	22.56	Horizontal
4	9018.5	35.99	-40.88	36.34	-63.81	-40.00	23.81	Horizontal
5	10686.5	30.73	-37.96	38.54	-63.95	-40.00	23.95	Horizontal
6	13882	27.77	-35.62	40.69	-62.42	-40.00	22.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3950.5	43.60	-46.16	29.05	-68.77	-40.00	28.77	Vertical
2	5556.5	41.90	-45.14	32.61	-65.89	-40.00	25.89	Vertical
3	8405	38.99	-41.46	36.60	-61.13	-40.00	21.13	Vertical
4	11141	30.64	-37.73	38.71	-63.64	-40.00	23.64	Vertical
5	14329.5	27.79	-35.76	41.03	-62.20	-40.00	22.20	Vertical
6	17588	26.81	-33.45	44.95	-56.96	-40.00	16.96	Vertical



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Test Band = NR SA Band 30 BW 5M_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4891.5	43.34	-45.53	31.16	-66.29	-40.00	26.29	Horizontal
2	6984.5	41.05	-43.64	35.17	-62.67	-40.00	22.67	Horizontal
3	7778.5	38.60	-42.48	36.71	-62.43	-40.00	22.43	Horizontal
4	9600	34.53	-39.67	37.44	-62.96	-40.00	22.96	Horizontal
5	11358	30.12	-37.39	38.74	-63.80	-40.00	23.80	Horizontal
6	15153.5	27.34	-34.40	40.98	-61.34	-40.00	21.34	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4895	43.83	-45.53	31.17	-65.79	-40.00	25.79	Vertical
2	6931	43.36	-43.93	35.08	-60.75	-40.00	20.75	Vertical
3	8938	37.01	-41.15	36.33	-63.07	-40.00	23.07	Vertical
4	10673	31.76	-38.04	38.54	-63.00	-40.00	23.00	Vertical
5	13828	28.76	-36.13	40.59	-62.04	-40.00	22.04	Vertical
6	17237.5	29.34	-35.17	43.37	-57.73	-40.00	17.73	Vertical



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Test on the worst case for SEWM2304000122RG02:

Test Band = SA Band 30 BW 10M_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6916	45.19	-42.46	36.03	-56.49	-40.00	16.49	296	334	Horizontal
2	4611.18	41.66	-44.45	31.67	-66.39	-40.00	26.39	254	252	Horizontal
3	9222.36	35.57	-38.40	38.58	-59.51	-40.00	19.51	142	20	Horizontal
4	11527.95	31.80	-35.24	39.07	-59.63	-40.00	19.63	263	104	Horizontal
5	13833.54	33.31	-34.88	40.10	-56.73	-40.00	16.73	222	294	Horizontal
6	16139.13	31.91	-33.34	38.00	-58.69	-40.00	18.69	178	166	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4611	45.19	-44.46	31.67	-62.86	-40.00	22.86	296	63	Vertical
2	6916.5	48.94	-42.46	36.03	-52.74	-40.00	12.74	265	44	Vertical
3	9222.36	36.42	-38.40	38.58	-58.66	-40.00	18.66	284	360	Vertical
4	11527.95	31.97	-35.24	39.07	-59.46	-40.00	19.46	142	360	Vertical
5	13833.54	32.47	-34.88	40.10	-57.57	-40.00	17.57	263	81	Vertical
6	16139.13	32.02	-33.34	38.00	-58.58	-40.00	18.58	227	360	Vertical



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Test Band = SA Band 30 BW 5M_ TM1
Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.68	42.05	-44.46	31.67	-66.00	-40.00	26.00	185	40	Horizontal
2	6916.02	40.86	-42.46	36.03	-60.82	-40.00	20.82	265	360	Horizontal
3	9221.36	35.50	-38.40	38.58	-59.58	-40.00	19.58	241	41	Horizontal
4	11526.7	32.07	-35.24	39.07	-59.36	-40.00	19.36	142	273	Horizontal
5	13832.04	33.31	-34.89	40.10	-56.74	-40.00	16.74	263	348	Horizontal
6	16137.38	31.37	-33.36	38.00	-59.25	-40.00	19.25	224	166	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.68	42.01	-44.46	31.67	-66.04	-40.00	26.04	296	204	Vertical
2	6916.02	40.64	-42.46	36.03	-61.04	-40.00	21.04	265	360	Vertical
3	9221.36	34.63	-38.40	38.58	-60.45	-40.00	20.45	254	360	Vertical
4	11526.7	32.86	-35.24	39.07	-58.57	-40.00	18.57	174	253	Vertical
5	13832.04	33.50	-34.89	40.10	-56.55	-40.00	16.55	142	359	Vertical
6	16137.38	31.41	-33.36	38.00	-59.21	-40.00	19.21	263	102	Vertical



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Test Band = SA Band 30 BW 5M_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.68	42.03	-44.44	31.68	-66.00	-40.00	26.00	196	19	Horizontal
2	6923.52	41.46	-42.47	36.05	-60.22	-40.00	20.22	265	360	Horizontal
3	9231.36	36.06	-38.40	38.58	-59.02	-40.00	19.02	284	357	Horizontal
4	11539.2	31.89	-35.31	39.06	-59.62	-40.00	19.62	142	272	Horizontal
5	13847.04	33.09	-34.76	40.11	-56.82	-40.00	16.82	263	100	Horizontal
6	16154.88	32.33	-33.21	38.01	-58.13	-40.00	18.13	225	251	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6923.5	51.30	-42.47	36.05	-50.38	-40.00	10.38	196	66	Vertical
2	4615.68	43.89	-44.44	31.68	-64.14	-40.00	24.14	265	45	Vertical
3	9231.36	35.01	-38.40	38.58	-60.07	-40.00	20.07	284	19	Vertical
4	11539.2	31.34	-35.31	39.06	-60.17	-40.00	20.17	142	240	Vertical
5	13847.04	32.41	-34.76	40.11	-57.50	-40.00	17.50	263	187	Vertical
6	16154.88	31.99	-33.21	38.01	-58.47	-40.00	18.47	223	330	Vertical



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Test Band = SA Band 30 BW 5M_ TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.68	41.81	-44.43	31.69	-66.19	-40.00	26.19	196	3	Horizontal
2	6931.02	40.65	-42.48	36.06	-61.03	-40.00	21.03	265	63	Horizontal
3	9241.32	35.00	-38.40	38.58	-60.08	-40.00	20.08	284	81	Horizontal
4	11551.7	32.32	-35.38	39.05	-59.27	-40.00	19.27	142	81	Horizontal
5	13862.04	32.47	-34.63	40.12	-57.31	-40.00	17.31	263	82	Horizontal
6	16172.38	31.68	-33.06	38.02	-58.62	-40.00	18.62	204	102	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.68	41.25	-44.43	31.69	-66.75	-40.00	26.75	254	3	Vertical
2	6931.02	40.06	-42.48	36.06	-61.62	-40.00	21.62	142	144	Vertical
3	9241.32	34.85	-38.40	38.58	-60.23	-40.00	20.23	285	3	Vertical
4	11551.7	31.72	-35.38	39.05	-59.87	-40.00	19.87	263	20	Vertical
5	13862.04	33.01	-34.63	40.12	-56.77	-40.00	16.77	254	360	Vertical
6	16172.38	32.18	-33.06	38.02	-58.12	-40.00	18.12	187	209	Vertical

Remark:

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

 $AF = \text{Antenna Factor (dB/m)}$
 $\text{Factor} = \text{Cable Factor (dB)} - \text{Pre-amplifier (dB)}$
 $\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$
 $\text{Margin} = \text{Limit} - \text{Level}$


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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N30	30	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	3.100000	0.001342	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	3.400000	0.001472	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	-1.400000	-0.000606	PASS
N30	30	10	CP-QPSK	M	Outer_Full	VH	NT	-2.500000	-0.001082	PASS
N30	30	10	CP-QPSK	M	Outer_Full	VN	NT	2.000000	0.000866	PASS
N30	30	10	CP-QPSK	M	Outer_Full	VL	NT	-3.400000	-0.001472	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	10.500000	0.004545	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	9.300000	0.004026	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	2.400000	0.001039	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	0	1.700000	0.000736	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	10	12.300000	0.005325	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	20	2.500000	0.001082	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	30	10.400000	0.004502	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	40	6.300000	0.002727	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	50	1.400000	0.000606	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	-30	3.800000	0.001645	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	-20	-0.700000	-0.000303	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	-10	4.700000	0.002035	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	0	4.700000	0.002035	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	10	0.800000	0.000346	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	20	0.300000	0.000130	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	30	1.600000	0.000693	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	40	5.600000	0.002424	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	50	5.500000	0.002381	PASS

---End of Attachment---



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