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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	Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
N30	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	23.40	17.70	23.98	PASS
N30	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	23.32	17.62	23.98	PASS
N30	15	5	DFT-PI2BPSK	L	Outer_Full	23.47	17.77	23.98	PASS
N30	15	5	DFT-QPSK	L	Inner_1RB_Left	23.46	17.76	23.98	PASS
N30	15	5	DFT-QPSK	L	Inner_1RB_Right	23.37	17.67	23.98	PASS
N30	15	5	DFT-QPSK	L	Outer_Full	23.14	17.44	23.98	PASS
N30	15	5	DFT-16QAM	L	Inner_1RB_Left	23.34	17.64	23.98	PASS
N30	15	5	DFT-16QAM	L	Inner_1RB_Right	23.02	17.32	23.98	PASS
N30	15	5	DFT-16QAM	L	Outer_Full	21.97	16.27	23.98	PASS
N30	15	5	DFT-64QAM	L	Inner_1RB_Left	21.61	15.91	23.98	PASS
N30	15	5	DFT-64QAM	L	Inner_1RB_Right	21.24	15.54	23.98	PASS
N30	15	5	DFT-64QAM	L	Outer_Full	21.47	15.77	23.98	PASS
N30	15	5	DFT-256QAM	L	Inner_1RB_Left	19.74	14.04	23.98	PASS
N30	15	5	DFT-256QAM	L	Inner_1RB_Right	19.56	13.86	23.98	PASS
N30	15	5	DFT-256QAM	L	Outer_Full	19.82	14.12	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	23.41	17.71	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	23.35	17.65	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Outer_Full	23.01	17.31	23.98	PASS
N30	15	5	DFT-QPSK	M	Inner_1RB_Left	23.39	17.69	23.98	PASS
N30	15	5	DFT-QPSK	M	Inner_1RB_Right	23.34	17.64	23.98	PASS
N30	15	5	DFT-QPSK	M	Outer_Full	22.39	16.69	23.98	PASS
N30	15	5	DFT-16QAM	M	Inner_1RB_Left	22.53	16.83	23.98	PASS
N30	15	5	DFT-16QAM	M	Inner_1RB_Right	22.59	16.89	23.98	PASS
N30	15	5	DFT-16QAM	M	Outer_Full	21.31	15.61	23.98	PASS
N30	15	5	DFT-64QAM	M	Inner_1RB_Left	20.79	15.09	23.98	PASS
N30	15	5	DFT-64QAM	M	Inner_1RB_Right	20.82	15.12	23.98	PASS
N30	15	5	DFT-64QAM	M	Outer_Full	20.79	15.09	23.98	PASS
N30	15	5	DFT-256QAM	M	Inner_1RB_Left	19.24	13.54	23.98	PASS
N30	15	5	DFT-256QAM	M	Inner_1RB_Right	19.34	13.64	23.98	PASS
N30	15	5	DFT-256QAM	M	Outer_Full	19.36	13.66	23.98	PASS



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N30	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	23.38	17.68	23.98	PASS
N30	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	23.44	17.74	23.98	PASS
N30	15	5	DFT-PI2BPSK	H	Outer_Full	22.79	17.09	23.98	PASS
N30	15	5	DFT-QPSK	H	Inner_1RB_Left	23.12	17.42	23.98	PASS
N30	15	5	DFT-QPSK	H	Inner_1RB_Right	23.34	17.64	23.98	PASS
N30	15	5	DFT-QPSK	H	Outer_Full	22.32	16.62	23.98	PASS
N30	15	5	DFT-16QAM	H	Inner_1RB_Left	22.37	16.67	23.98	PASS
N30	15	5	DFT-16QAM	H	Inner_1RB_Right	22.67	16.97	23.98	PASS
N30	15	5	DFT-16QAM	H	Outer_Full	21.19	15.49	23.98	PASS
N30	15	5	DFT-64QAM	H	Inner_1RB_Left	20.67	14.97	23.98	PASS
N30	15	5	DFT-64QAM	H	Inner_1RB_Right	21.02	15.32	23.98	PASS
N30	15	5	DFT-64QAM	H	Outer_Full	20.85	15.15	23.98	PASS
N30	15	5	DFT-256QAM	H	Inner_1RB_Left	19.15	13.45	23.98	PASS
N30	15	5	DFT-256QAM	H	Inner_1RB_Right	19.52	13.82	23.98	PASS
N30	15	5	DFT-256QAM	H	Outer_Full	19.40	13.70	23.98	PASS
N30	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	22.98	17.28	23.98	PASS
N30	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	22.95	17.25	23.98	PASS
N30	15	10	DFT-PI2BPSK	L	Outer_Full	22.45	16.75	23.98	PASS
N30	15	10	DFT-QPSK	L	Inner_1RB_Left	23.37	17.67	23.98	PASS
N30	15	10	DFT-QPSK	L	Inner_1RB_Right	23.32	17.62	23.98	PASS
N30	15	10	DFT-QPSK	L	Outer_Full	21.94	16.24	23.98	PASS
N30	15	10	DFT-16QAM	L	Inner_1RB_Left	21.76	16.06	23.98	PASS
N30	15	10	DFT-16QAM	L	Inner_1RB_Right	21.74	16.04	23.98	PASS
N30	15	10	DFT-16QAM	L	Outer_Full	20.92	15.22	23.98	PASS
N30	15	10	DFT-64QAM	L	Inner_1RB_Left	20.13	14.43	23.98	PASS
N30	15	10	DFT-64QAM	L	Inner_1RB_Right	20.12	14.42	23.98	PASS
N30	15	10	DFT-64QAM	L	Outer_Full	20.49	14.79	23.98	PASS
N30	15	10	DFT-256QAM	L	Inner_1RB_Left	18.67	12.97	23.98	PASS
N30	15	10	DFT-256QAM	L	Inner_1RB_Right	18.69	12.99	23.98	PASS
N30	15	10	DFT-256QAM	L	Outer_Full	18.52	12.82	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	23.00	17.30	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	22.91	17.21	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	22.47	16.77	23.98	PASS
N30	15	10	DFT-QPSK	M	Inner_1RB_Left	22.90	17.20	23.98	PASS
N30	15	10	DFT-QPSK	M	Inner_1RB_Right	22.87	17.17	23.98	PASS
N30	15	10	DFT-QPSK	M	Outer_Full	21.96	16.26	23.98	PASS
N30	15	10	DFT-16QAM	M	Inner_1RB_Left	21.93	16.23	23.98	PASS



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N30	15	10	DFT-16QAM	M	Inner_1RB_Right	21.90	16.20	23.98	PASS
N30	15	10	DFT-16QAM	M	Outer_Full	21.01	15.31	23.98	PASS
N30	15	10	DFT-64QAM	M	Inner_1RB_Left	20.39	14.69	23.98	PASS
N30	15	10	DFT-64QAM	M	Inner_1RB_Right	20.29	14.59	23.98	PASS
N30	15	10	DFT-64QAM	M	Outer_Full	20.48	14.78	23.98	PASS
N30	15	10	DFT-256QAM	M	Inner_1RB_Left	18.66	12.96	23.98	PASS
N30	15	10	DFT-256QAM	M	Inner_1RB_Right	18.66	12.96	23.98	PASS
N30	15	10	DFT-256QAM	M	Outer_Full	18.54	12.84	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	22.97	17.27	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	22.98	17.28	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Outer_Full	22.45	16.75	23.98	PASS
N30	15	10	DFT-QPSK	H	Inner_1RB_Left	23.45	17.75	23.98	PASS
N30	15	10	DFT-QPSK	H	Inner_1RB_Right	23.35	17.65	23.98	PASS
N30	15	10	DFT-QPSK	H	Outer_Full	21.98	16.28	23.98	PASS
N30	15	10	DFT-16QAM	H	Inner_1RB_Left	21.93	16.23	23.98	PASS
N30	15	10	DFT-16QAM	H	Inner_1RB_Right	21.84	16.14	23.98	PASS
N30	15	10	DFT-16QAM	H	Outer_Full	21.02	15.32	23.98	PASS
N30	15	10	DFT-64QAM	H	Inner_1RB_Left	20.36	14.66	23.98	PASS
N30	15	10	DFT-64QAM	H	Inner_1RB_Right	20.36	14.66	23.98	PASS
N30	15	10	DFT-64QAM	H	Outer_Full	20.48	14.78	23.98	PASS
N30	15	10	DFT-256QAM	H	Inner_1RB_Left	18.68	12.98	23.98	PASS
N30	15	10	DFT-256QAM	H	Inner_1RB_Right	18.65	12.95	23.98	PASS
N30	15	10	DFT-256QAM	H	Outer_Full	18.52	12.82	23.98	PASS



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Power Spectral Density Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	EIRP	Limit	Verdict
N30	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	22.03	16.33	23.98	PASS
N30	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	21.45	15.75	23.98	PASS
N30	15	5	DFT-PI2BPSK	L	Outer_Full	20.2	14.5	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	21.56	15.86	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	21.67	15.97	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Outer_Full	20.11	14.41	23.98	PASS
N30	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	21.5	15.8	23.98	PASS
N30	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	22.13	16.43	23.98	PASS
N30	15	5	DFT-PI2BPSK	H	Outer_Full	20.39	14.69	23.98	PASS
N30	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	21.78	16.08	23.98	PASS
N30	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	22.27	16.57	23.98	PASS
N30	15	10	DFT-PI2BPSK	L	Outer_Full	18.82	13.12	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	21.32	15.62	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	21.95	16.25	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	18.53	12.83	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	21.02	15.32	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	21.79	16.09	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Outer_Full	18.45	12.75	23.98	PASS



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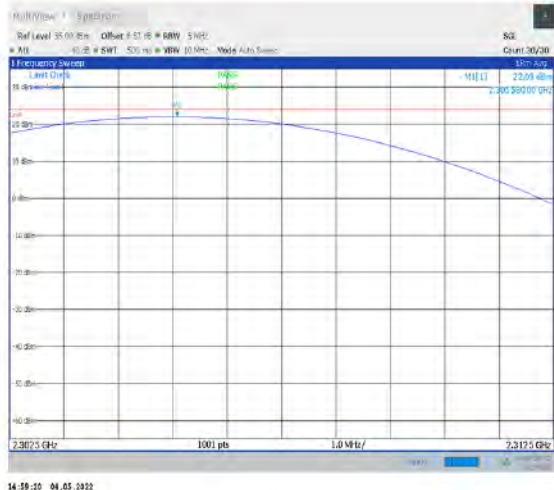
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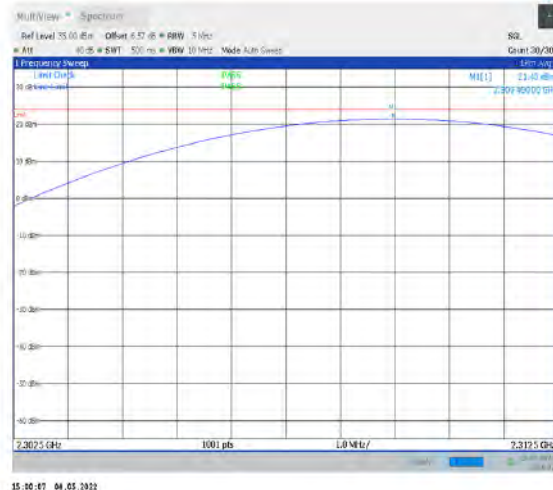
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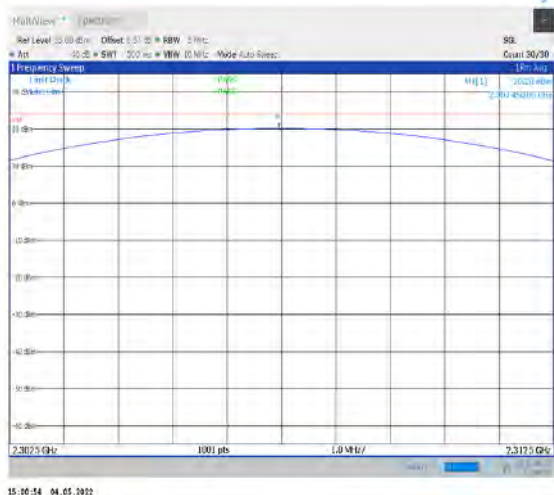
Test Graphs



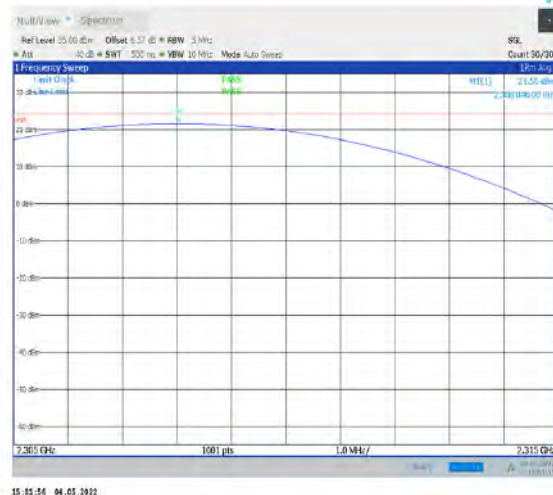
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23.98-PASS



1-N30-PC3-15-5-L-2-DFT-PI2BPSK-
Inner_1RB_Right-1@23-2302.5-2312.5-Ant1-21.45-
23.98-PASS



1-N30-PC3-15-5-L-3-DFT-PI2BPSK-Outer_Full-
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1-N30-PC3-15-5-M-1-DFT-PI2BPSK-Inner_1RB_Left-
1@1-2305-2315-Ant1-21.56-23.98-PASS



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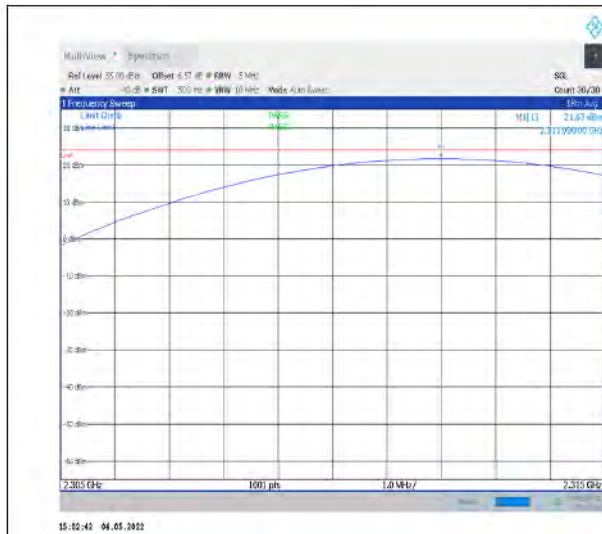
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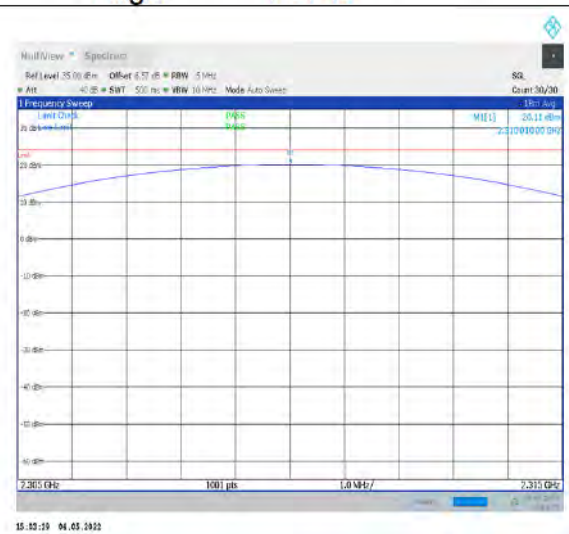
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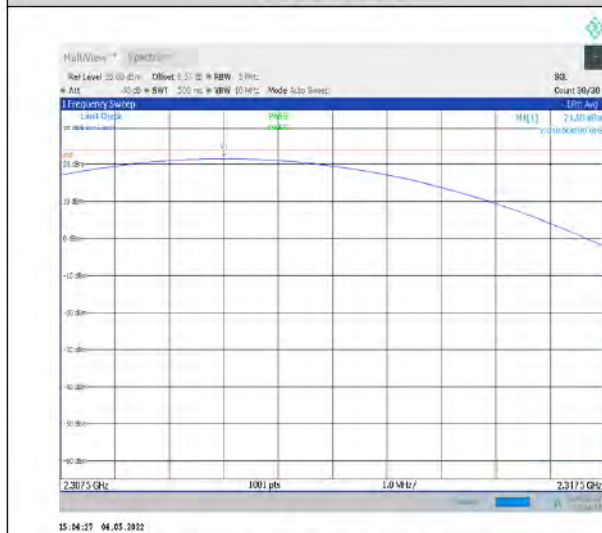
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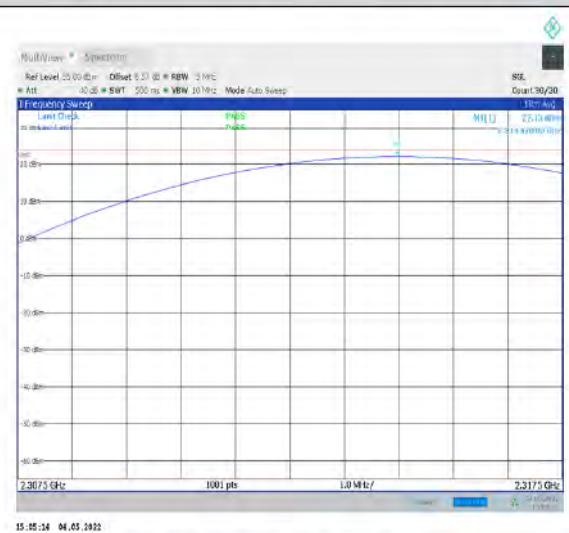
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23.98-PASS



1-N30-PC3-15-5-M-3-DFT-PI2BPSK-Outer_Full-
25@0-2305-2315-Ant1-20.11-23.98-PASS



1-N30-PC3-15-5-H-1-DFT-PI2BPSK-
Inner_1RB_Left-1@1-2307.5-2317.5-Ant1-21.50-
23.98-PASS



1-N30-PC3-15-5-H-2-DFT-PI2BPSK-
Inner_1RB_Right-1@23-2307.5-2317.5-Ant1-22.13-
23.98-PASS



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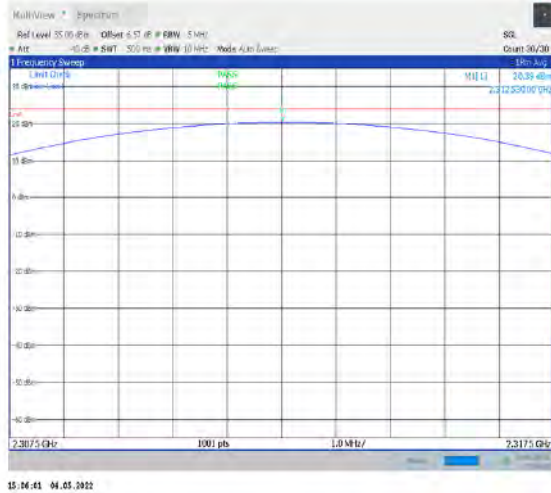
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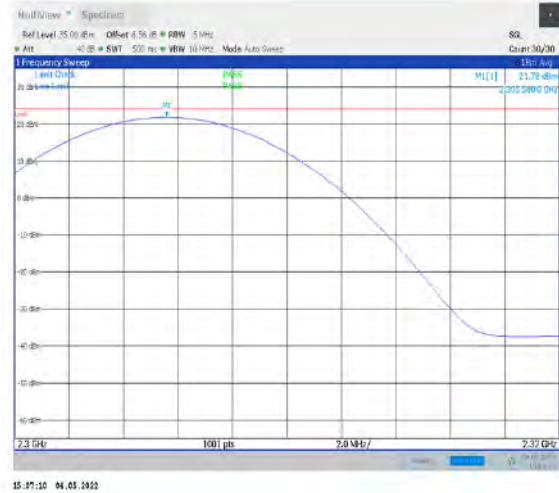
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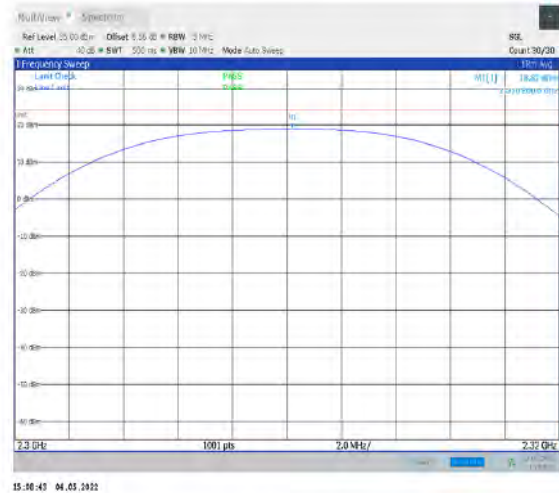
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1-N30-PC3-15-10-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-2300-2320-Ant1-21.78-23.98-PASS



1-N30-PC3-15-10-L-2-DFT-PI2BPSK-Inner_1RB_Right-1@50-2300-2320-Ant1-22.27-23.98-PASS



1-N30-PC3-15-10-L-3-DFT-PI2BPSK-Outer_Full-50@0-2300-2320-Ant1-18.82-23.98-PASS



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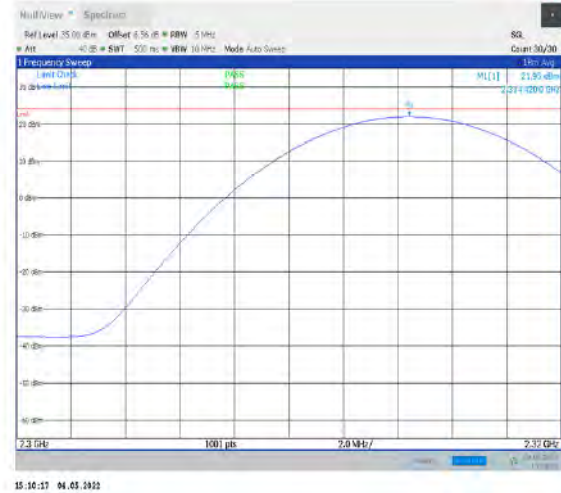
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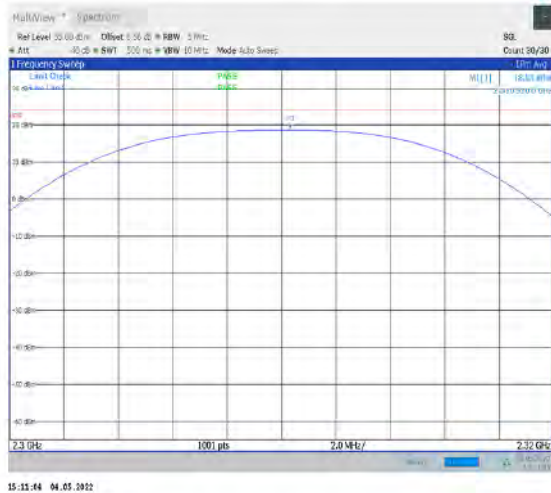
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1-N30-PC3-15-10-M-1-DFT-PI2BPSK-
Inner_1RB_Left-1@1-2300-2320-Ant1-21.32-23.98-
PASS



1-N30-PC3-15-10-M-2-DFT-PI2BPSK-
Inner_1RB_Right-1@50-2300-2320-Ant1-21.95-
23.98-PASS



1-N30-PC3-15-10-M-3-DFT-PI2BPSK-Outer_Full-
50@0-2300-2320-Ant1-18.53-23.98-PASS



1-N30-PC3-15-10-H-1-DFT-PI2BPSK-
Inner_1RB_Left-1@1-2300-2320-Ant1-21.02-23.98-
PASS



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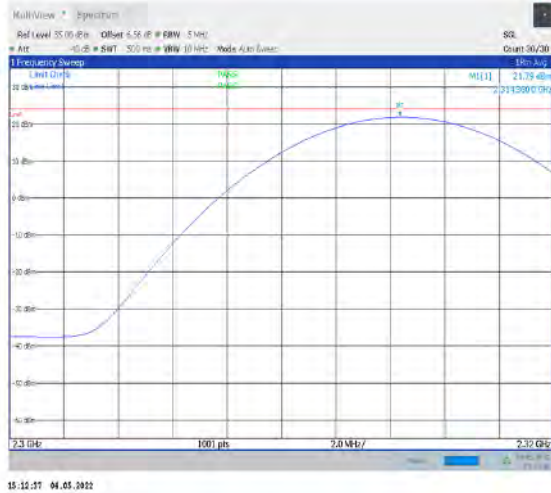
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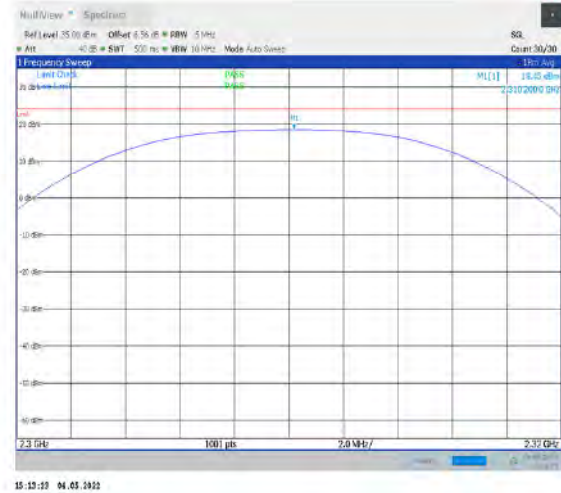
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1-N30-PC3-15-10-H-2-DFT-PI2BPSK-
Inner_1RB_Right-1@50-2300-2320-Ant1-21.79-
23.98-PASS



1-N30-PC3-15-10-H-3-DFT-PI2BPSK-Outer_Full-
50@0-2300-2320-Ant1-18.45-23.98-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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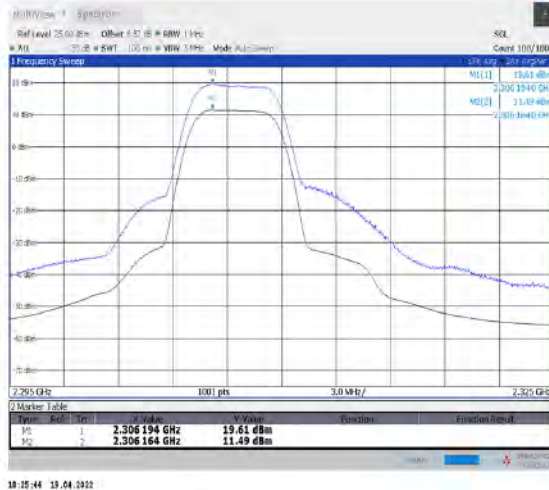
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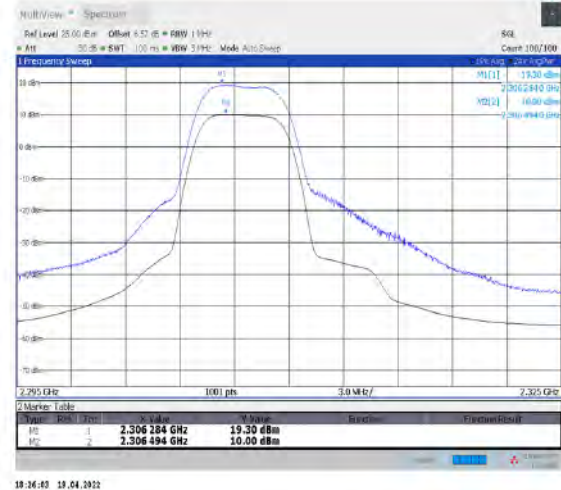
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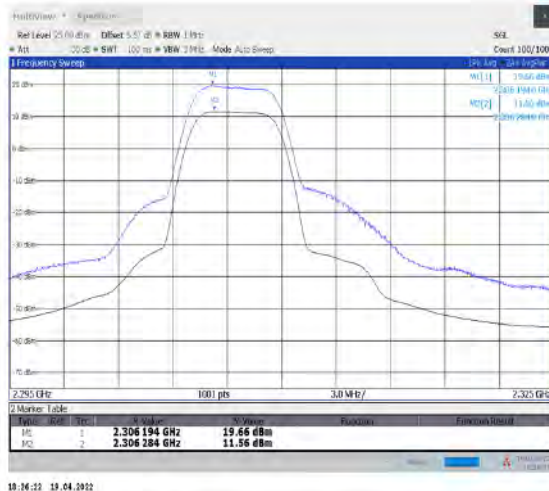
Test Graphs



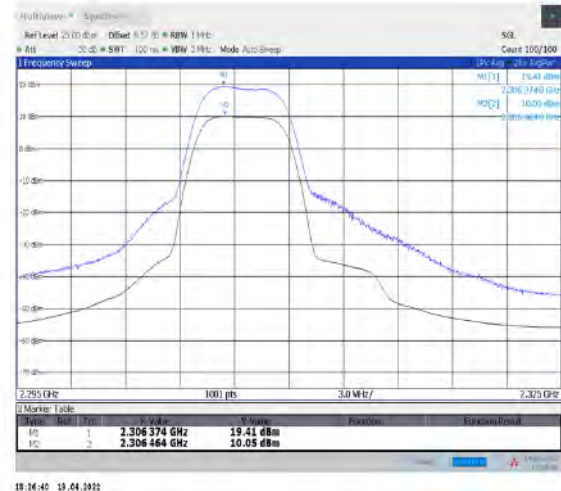
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1-N30--15-10-L-2-CP-256QAM-Outer_Full-24@0-Ant1-9.30-100%-0.00-9.30-PASS-≤13



1-N30--15-10-M-1-DFT-256QAM-Outer_Full-24@0-Ant1-8.10-100%-0.00-8.10-PASS-≤13



1-N30--15-10-M-2-CP-256QAM-Outer_Full-24@0-Ant1-9.36-100%-0.00-9.36-PASS-≤13



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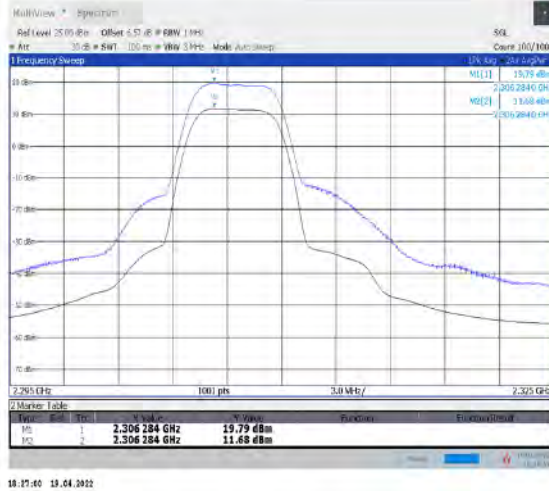
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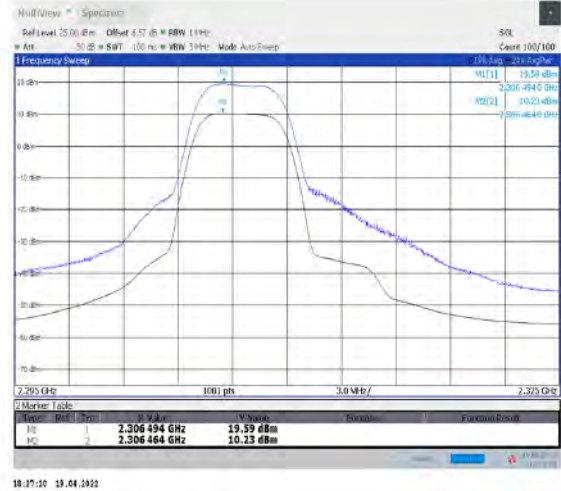
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1-N30-15-10-H-1-DFT-256QAM-Outer_Full-24@0-
Ant1-8.11-100%-0.00-8.11-PASS-≤13



1-N30-15-10-H-2-CP-256QAM-Outer_Full-24@0-
Ant1-9.36-100%-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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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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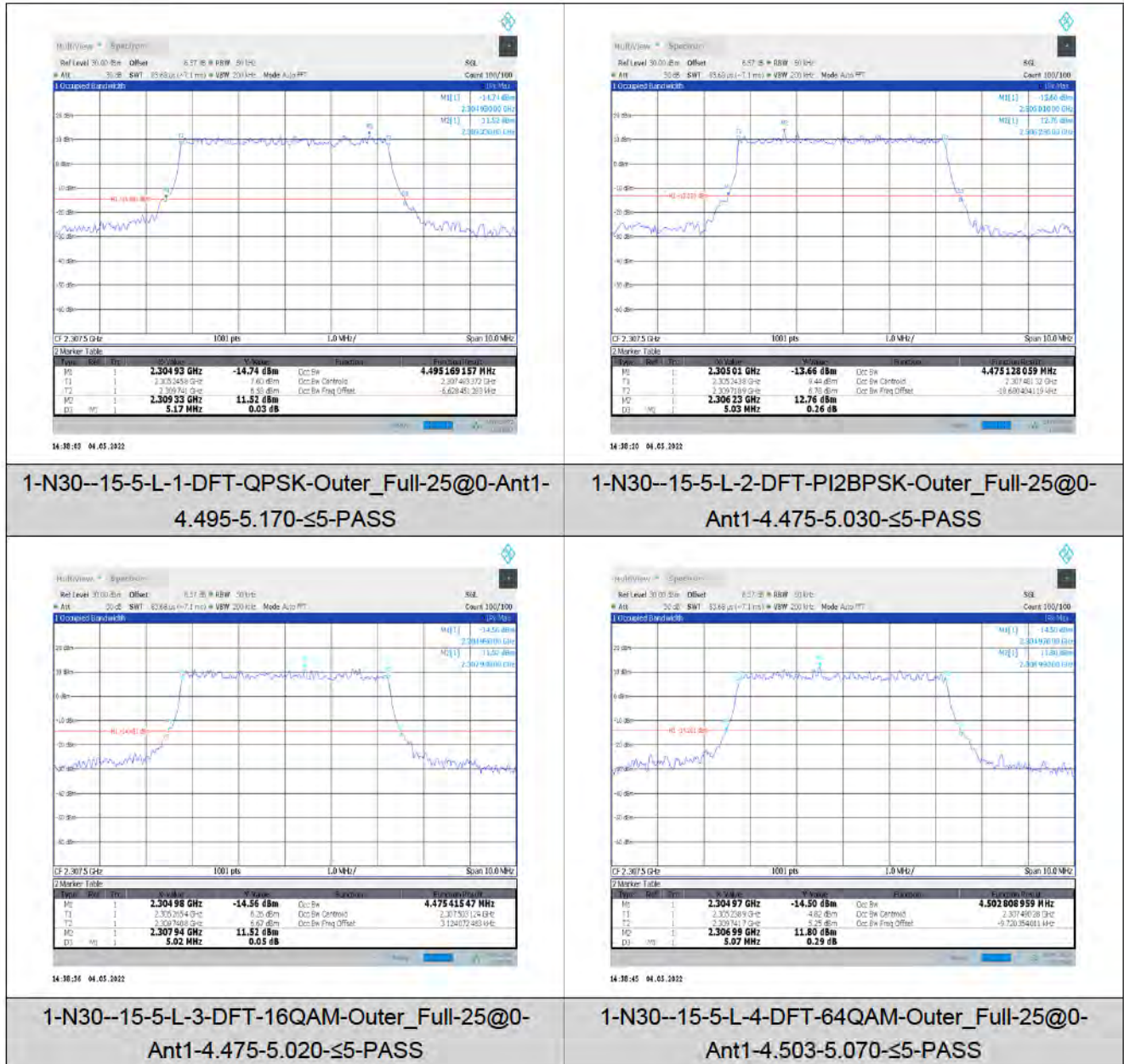
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Test Graphs



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14-38:35 04.05.2022



14-39:37 04.05.2022

1-N30--15-5-L-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.473-5.050-≤5-PASS

1-N30--15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-4.472-5.100-≤5-PASS



14-39:16 04.05.2022



14-39:25 04.05.2022

1-N30--15-5-L-7-CP-16QAM-Outer_Full-25@0-Ant1-4.463-5.050-≤5-PASS

1-N30--15-5-L-8-CP-64QAM-Outer_Full-25@0-Ant1-4.476-5.120-≤5-PASS



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14:39:16 04.05.2022



14:40:02 04.05.2022

1-N30--15-5-L-9-CP-256QAM-Outer_Full-25@0-Ant1-4.483-5.110-≤5-PASS

1-N30--15-5-M-1-DFT-QPSK-Outer_Full-25@0-Ant1-4.491-5.160-≤5-PASS



14:40:18 04.05.2022



14:40:38 04.05.2022

1-N30--15-5-M-2-DFT-PI2BPSK-Outer_Full-25@0-Ant1-4.463-5.060-≤5-PASS

1-N30--15-5-M-3-DFT-16QAM-Outer_Full-25@0-Ant1-4.461-4.880-≤5-PASS



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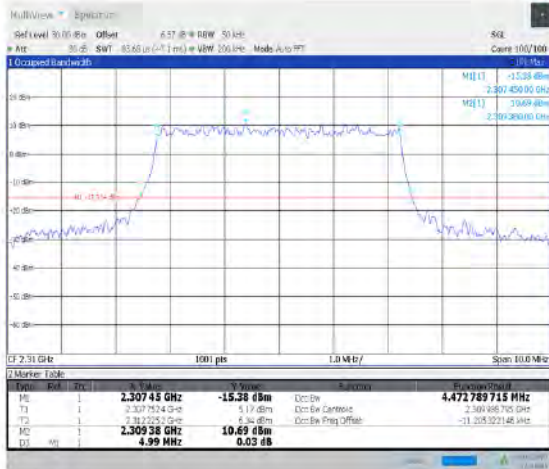
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14:40:43 04.05.2022



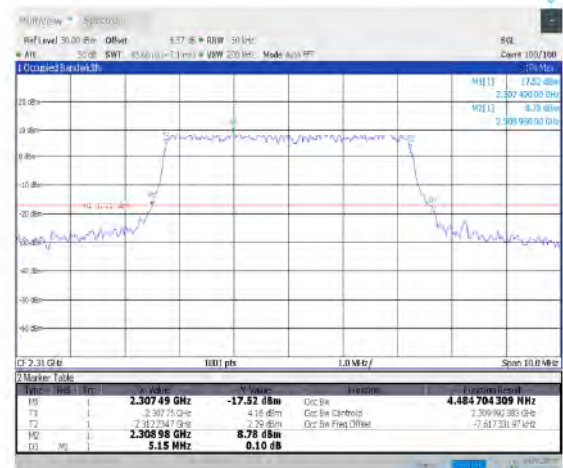
14:40:33 04.05.2022

1-N30--15-5-M4-DFT-64QAM-Outer_Full-25@0-Ant1-4.473-4.990-≤5-PASS

1-N30--15-5-M5-DFT-256QAM-Outer_Full-25@0-Ant1-4.473-5.020-≤5-PASS



14:43:46 04.05.2022



14:43:25 04.05.2022

1-N30--15-5-M6-CP-QPSK-Outer_Full-25@0-Ant1-4.464-4.930-≤5-PASS

1-N30--15-5-M7-CP-16QAM-Outer_Full-25@0-Ant1-4.485-5.150-≤5-PASS



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14.43.13 04.05.2022

1-N30--15-5-M-8-CP-64QAM-Outer_Full-25@0-Ant1-4.474-4.990-≤5-PASS



14.43.33 04.05.2022

1-N30--15-5-M-9-CP-256QAM-Outer_Full-25@0-Ant1-4.471-4.880-≤5-PASS



14.43.59 04.05.2022

1-N30--15-5-H-1-DFT-QPSK-Outer_Full-25@0-Ant1-4.488-5.130-≤5-PASS



14.42.25 04.05.2022

1-N30--15-5-H-2-DFT-PI2BPSK-Outer_Full-25@0-Ant1-4.457-4.950-≤5-PASS



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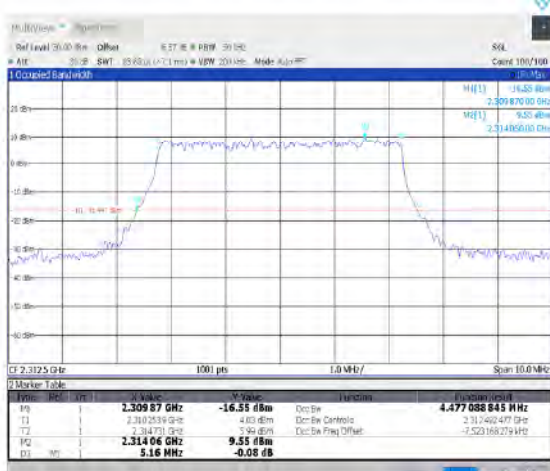
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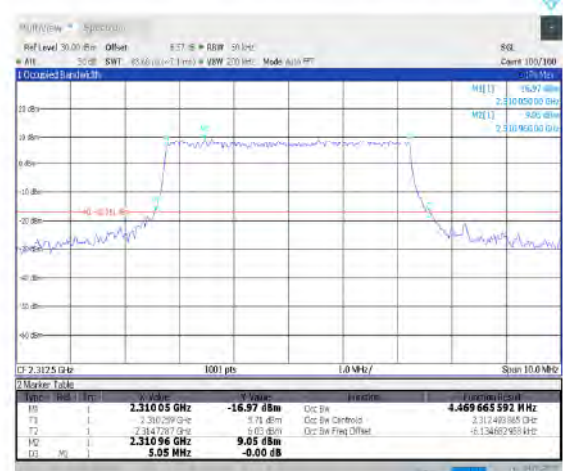
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1-N30--15-5-H-3-DFT-16QAM-Outer_Full-25@0-Ant1-4.484-5.090-≤5-PASS

1-N30--15-5-H-4-DFT-64QAM-Outer_Full-25@0-Ant1-4.481-5.080-≤5-PASS



14-02-19 04.05.2022



14-02-19 04.05.2022

1-N30--15-5-H-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.477-5.160-≤5-PASS

1-N30--15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-4.47-5.050-≤5-PASS



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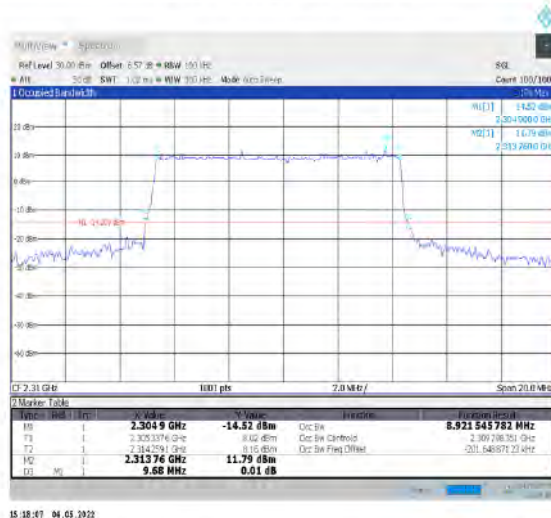
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1-N30--15-5-H-8-CP-64QAM-Outer_Full-25@0-Ant1-4.485-5.060-≤5-PASS



14.43.14 04.05.2022



15.18.47 04.05.2022

1-N30--15-5-H-9-CP-256QAM-Outer_Full-25@0-Ant1-4.469-5.070-≤5-PASS

1-N30--15-10-L-1-DFT-QPSK-Outer_Full-50@0-Ant1-8.922-9.680-≤10-PASS



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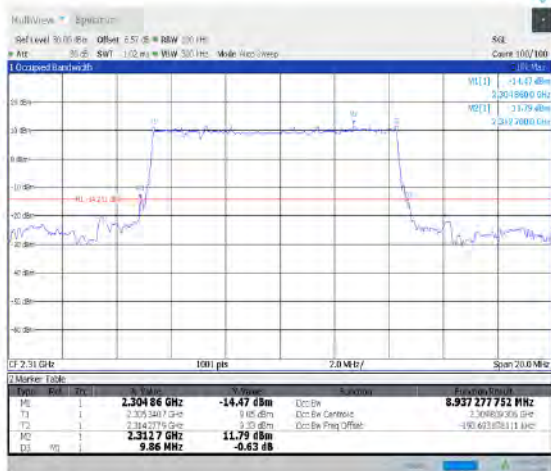
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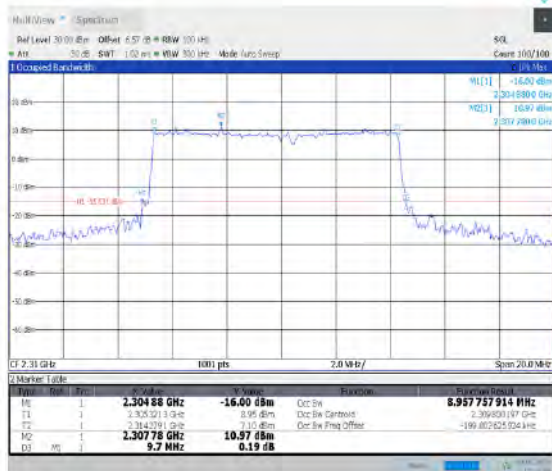
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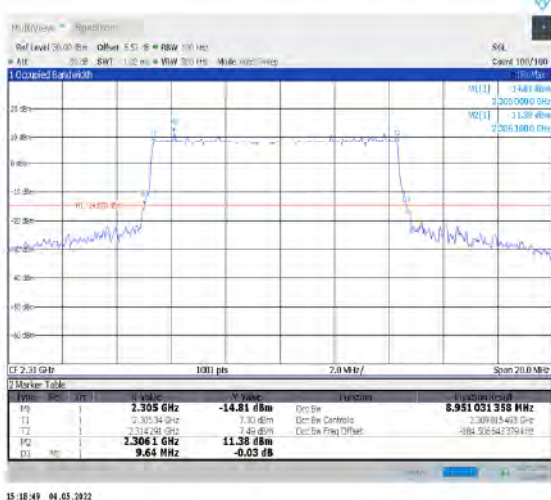
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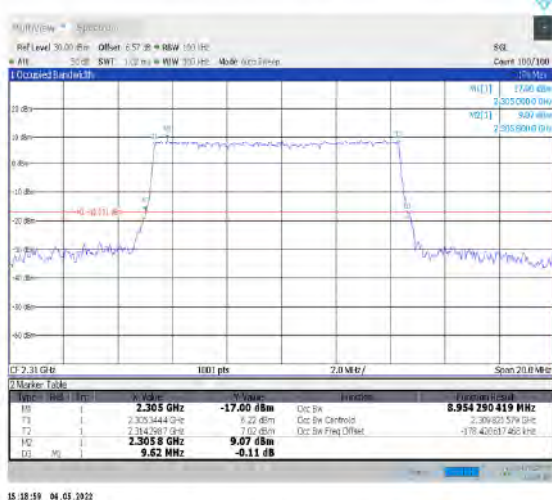
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1-N30--15-10-L-3-DFT-16QAM-Outer_Full-50@0-Ant1-8.958-9.700-≤10-PASS



15:18:49 04.05.2022



15:18:59 04.05.2022

1-N30--15-10-L-4-DFT-64QAM-Outer_Full-50@0-Ant1-8.951-9.640-≤10-PASS

1-N30--15-10-L-5-DFT-256QAM-Outer_Full-50@0-Ant1-8.954-9.620-≤10-PASS



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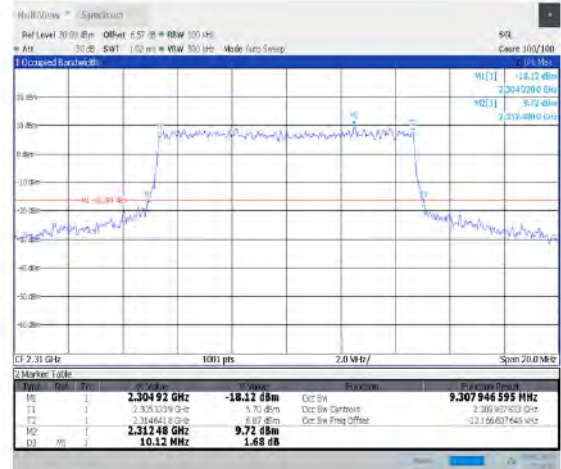
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15:19:11 04.05.2022

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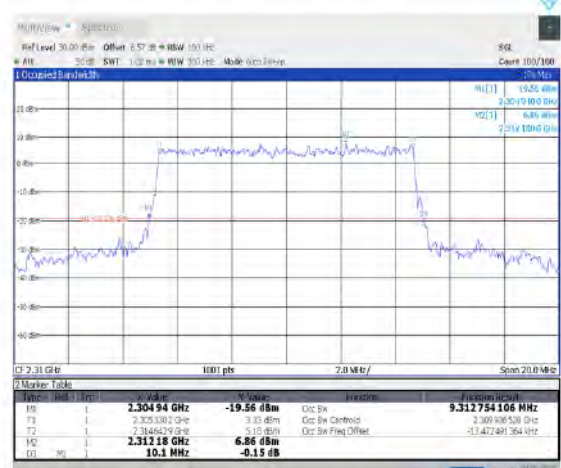
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1-N30--15-10-L-7-CP-16QAM-Outet_Full-52@0-Ant1-9.308-10.120-≤10-PASS



15:19:19 04.05.2022

1-N30--15-10-L-8-CP-64QAM-Outet_Full-52@0-Ant1-9.319-10.080-≤10-PASS



15:19:19 04.05.2022

1-N30--15-10-L-9-CP-256QAM-Outet_Full-52@0-Ant1-9.313-10.100-≤10-PASS



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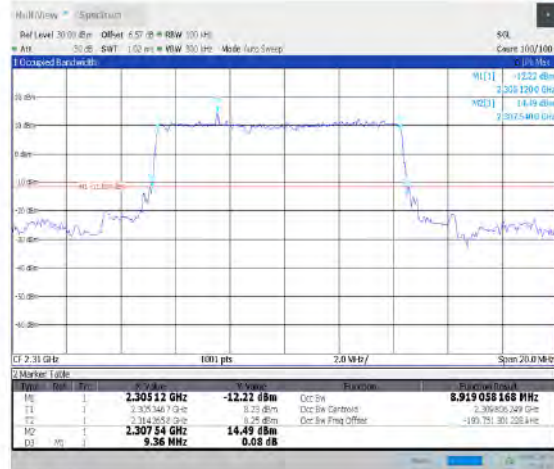
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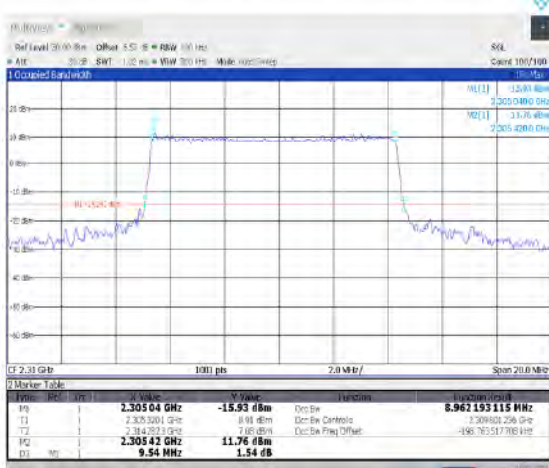
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1-N30--15-10-M-2-DFT-PI2BPSK-Outer_Full-50@0-Ant1-8.919-9.360-≤10-PASS



15-10-31 04.05.2022



15-10-31 04.05.2022

1-N30--15-10-M-3-DFT-16QAM-Outer_Full-50@0-Ant1-8.962-9.540-≤10-PASS

1-N30--15-10-M-4-DFT-64QAM-Outer_Full-50@0-Ant1-8.947-9.660-≤10-PASS



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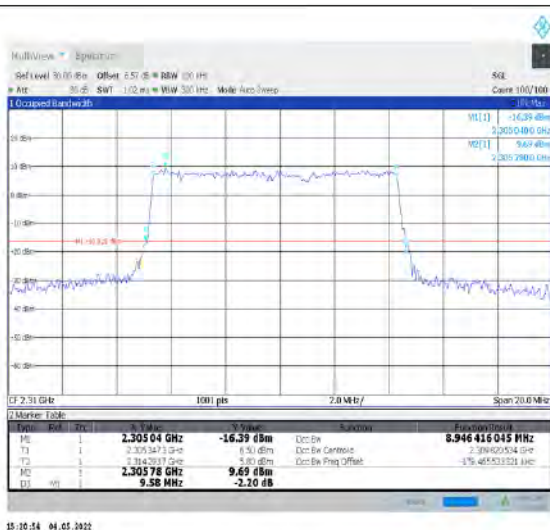
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15-10-14 04:05:2022



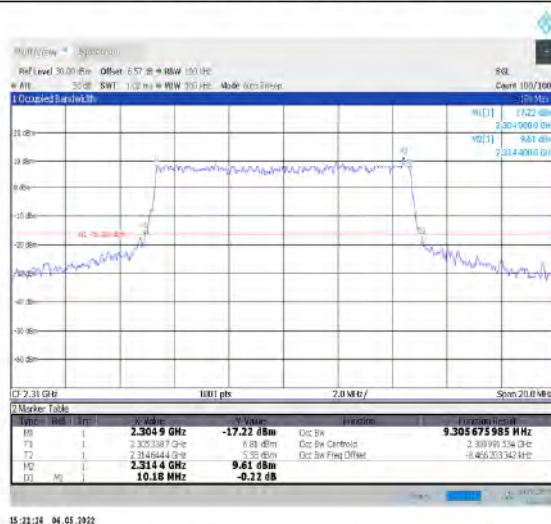
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1-N30--15-10-M-6-CP-QPSK-Outer_Full-52@0-Ant1-9.311-10.040-≤10-PASS



15-10-15 04:05:2022



15-10-15 04:05:2022

1-N30--15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant1-9.312-10.020-≤10-PASS

1-N30--15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant1-9.306-10.180-≤10-PASS



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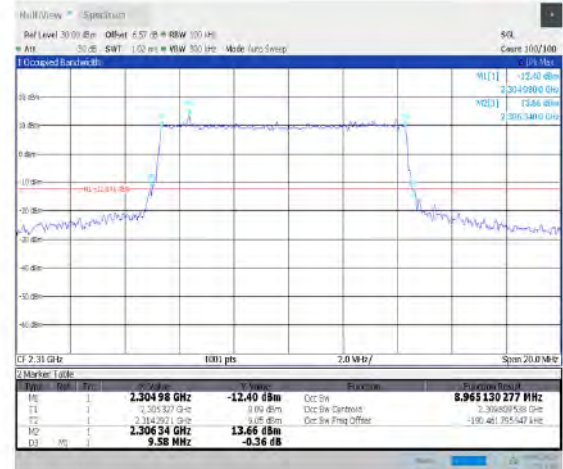
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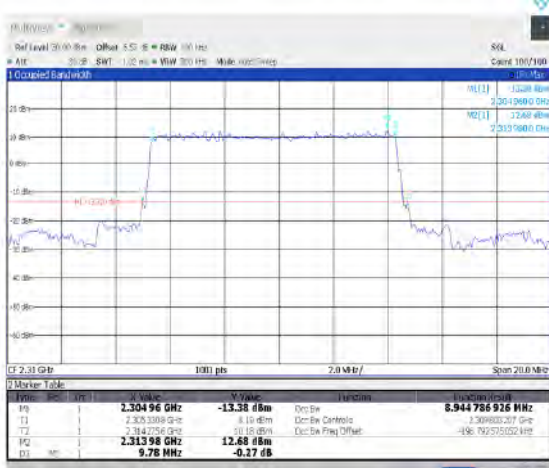
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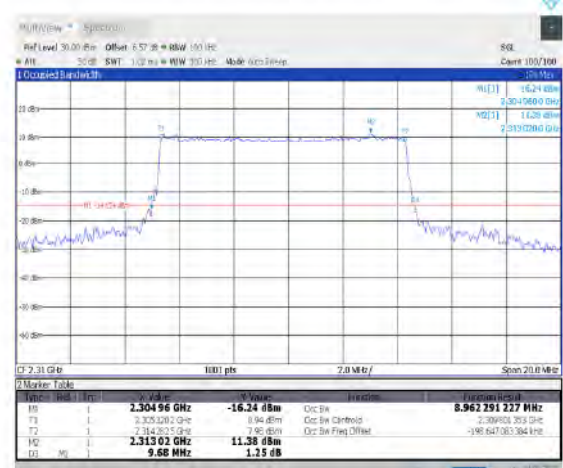
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1-N30--15-10-H-1-DFT-QPSK-Outer_Full-50@0-Ant1-8.965-9.580-≤10-PASS



15:12:13 04.05.2022



15:12:28 04.05.2022

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1-N30--15-10-H-3-DFT-16QAM-Outer_Full-50@0-Ant1-8.962-9.680-≤10-PASS



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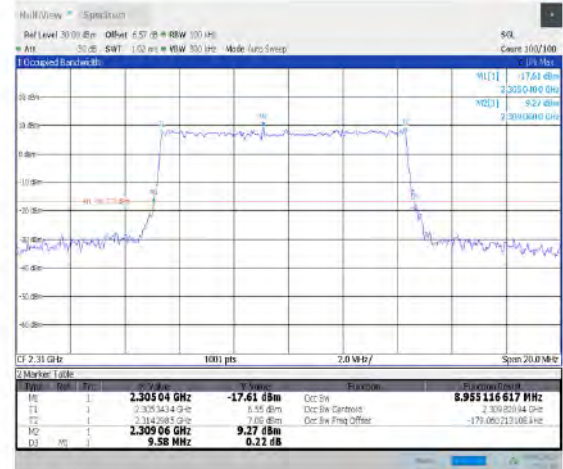
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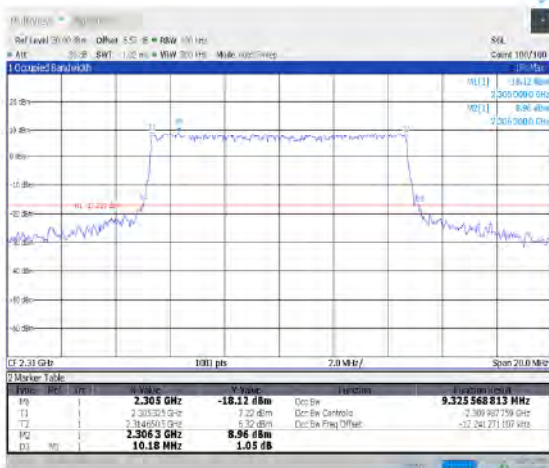
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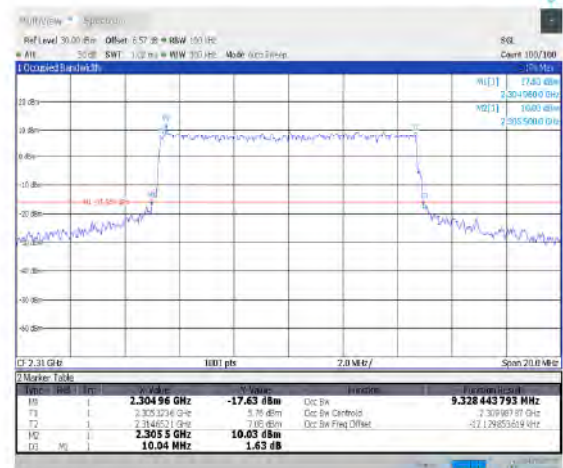
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1-N30--15-10-H-5-DFT-256QAM-Outer_Full-50@0-Ant1-8.955-9.580-≤10-PASS



15-12-19 04.05.2022



15-12-19 04.05.2022

1-N30--15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1-9.326-10.180-≤10-PASS

1-N30--15-10-H-7-CP-16QAM-Outer_Full-52@0-Ant1-9.328-10.040-≤10-PASS



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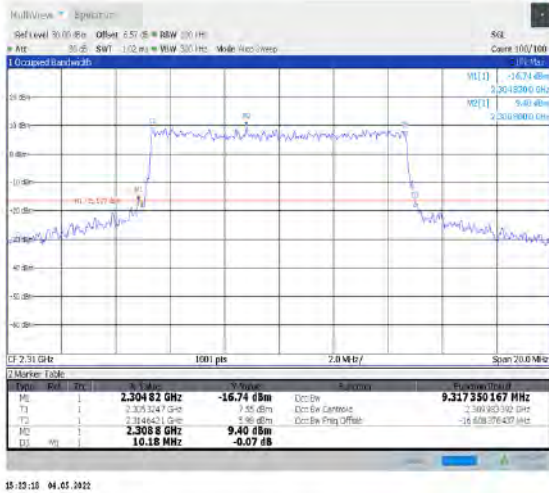
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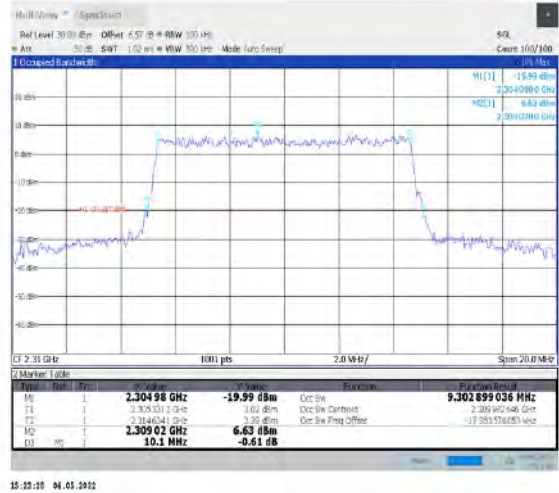
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1-N30-15-10-H-8-CP-64QAM-Outer_Full-52@0-
Ant1-9.317-10.180-≤10-PASS



1-N30-15-10-H-9-CP-256QAM-Outer_Full-52@0-
Ant1-9.303-10.100-≤10-PASS



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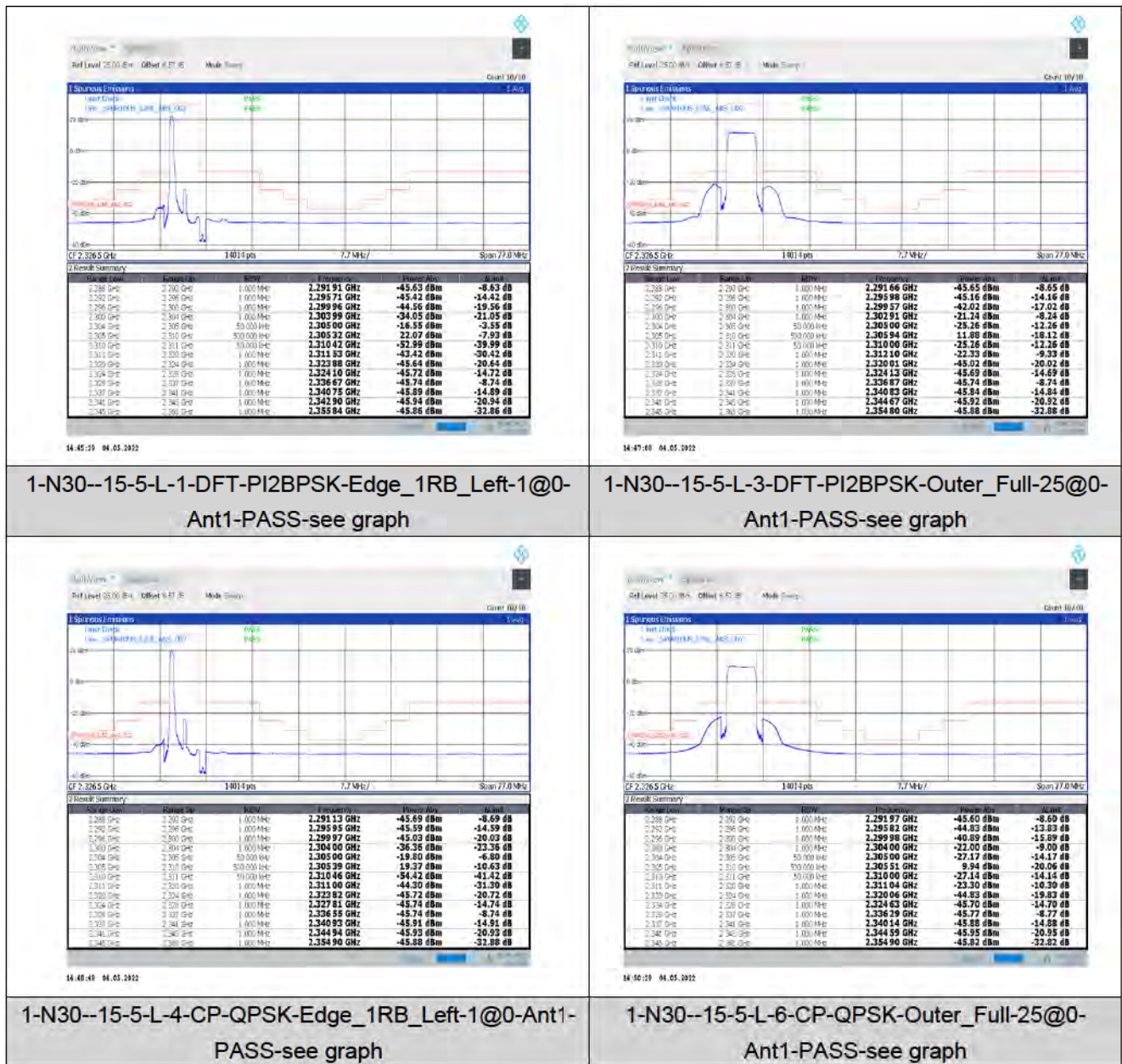
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Band Edge for SA

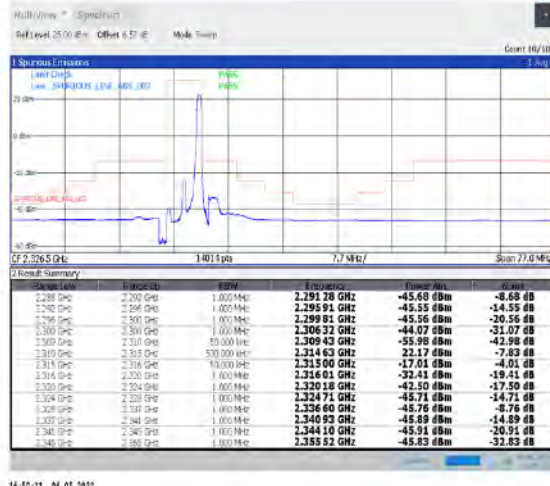
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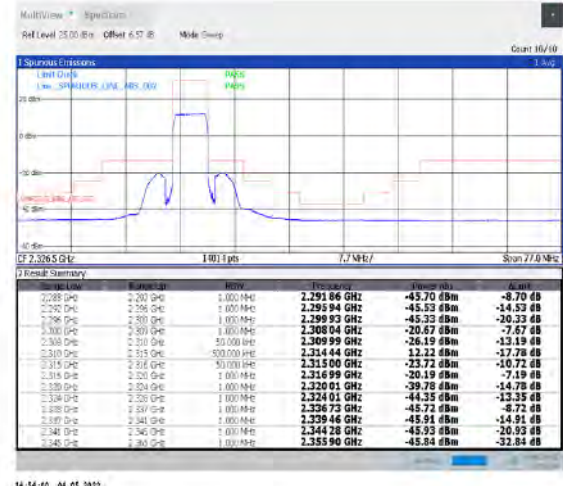
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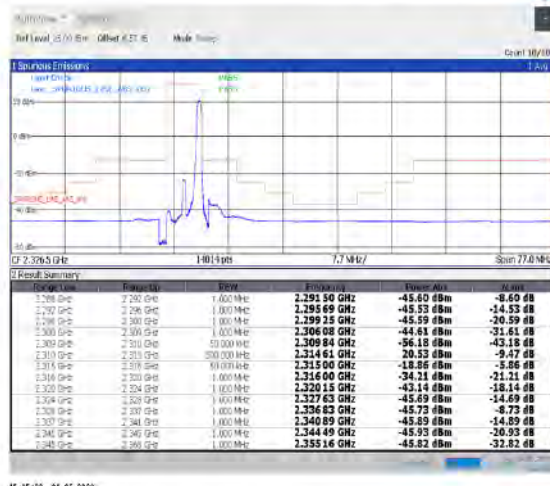
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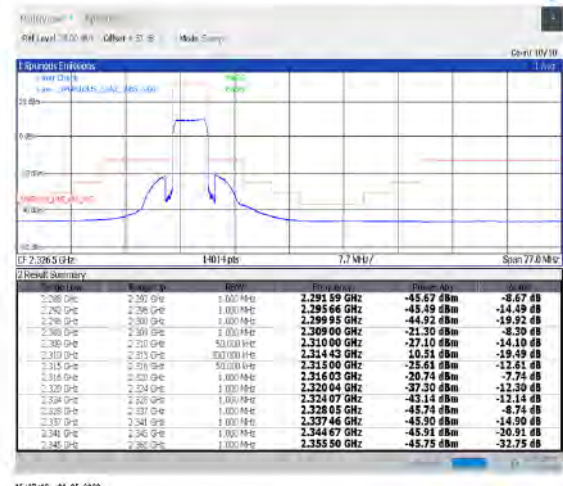
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15:17:59 04.05.2022

1-N30--15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-PASS-see graph



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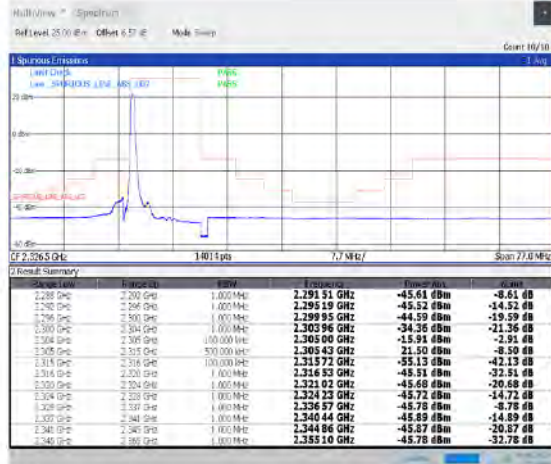
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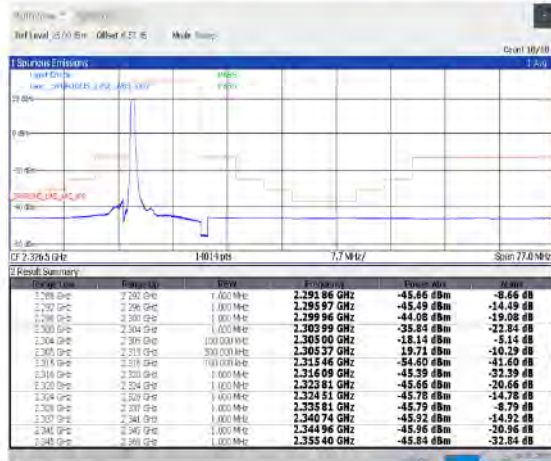
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15-10-02 04.05.2022

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15-10-10 04.05.2022

1-N30--15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph



15-10-05 04.05.2022

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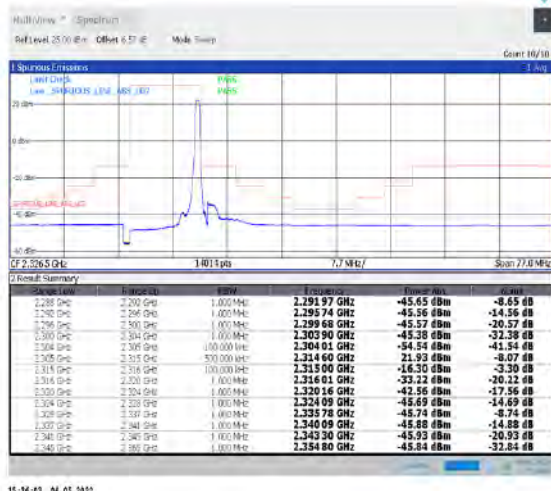
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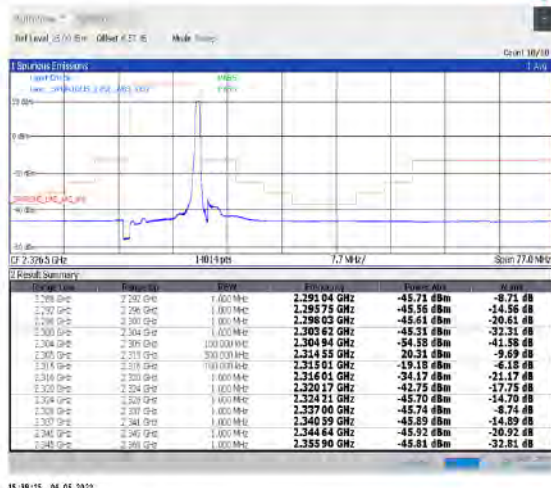
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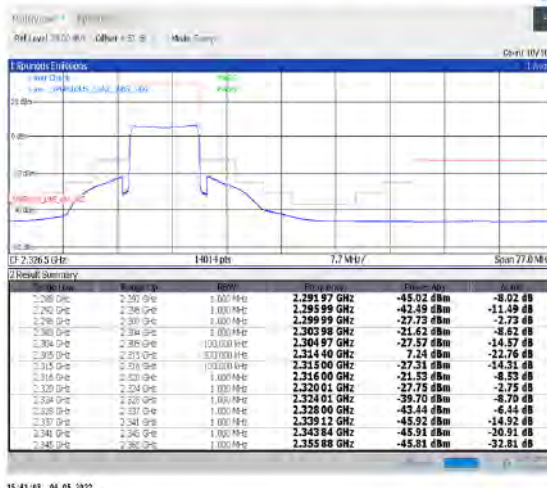
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50@0-Ant1-PASS-see graph



1-N30--15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-
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Ant1-PASS-see graph

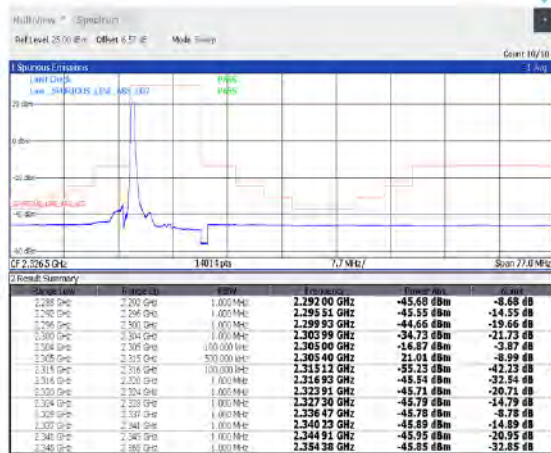


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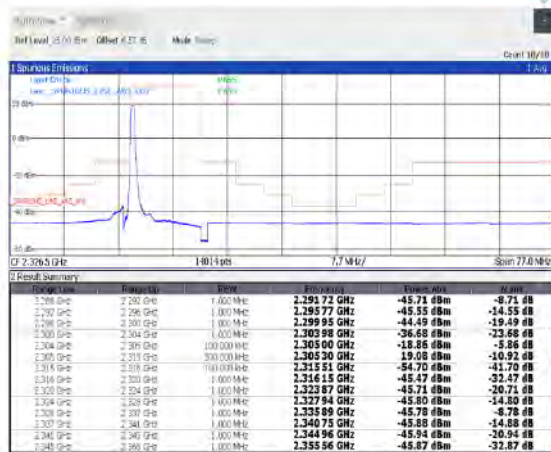
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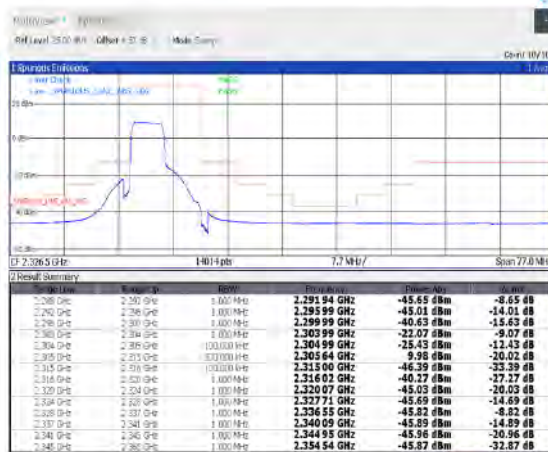
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18:52:19 19 04 2020

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Ant1-PASS-see graph



12:19:58 19.04.2022

1-N30--30-10-L-6-CP-QPSK-Outer_Full-24@0-
Ant1-PASS-see graph



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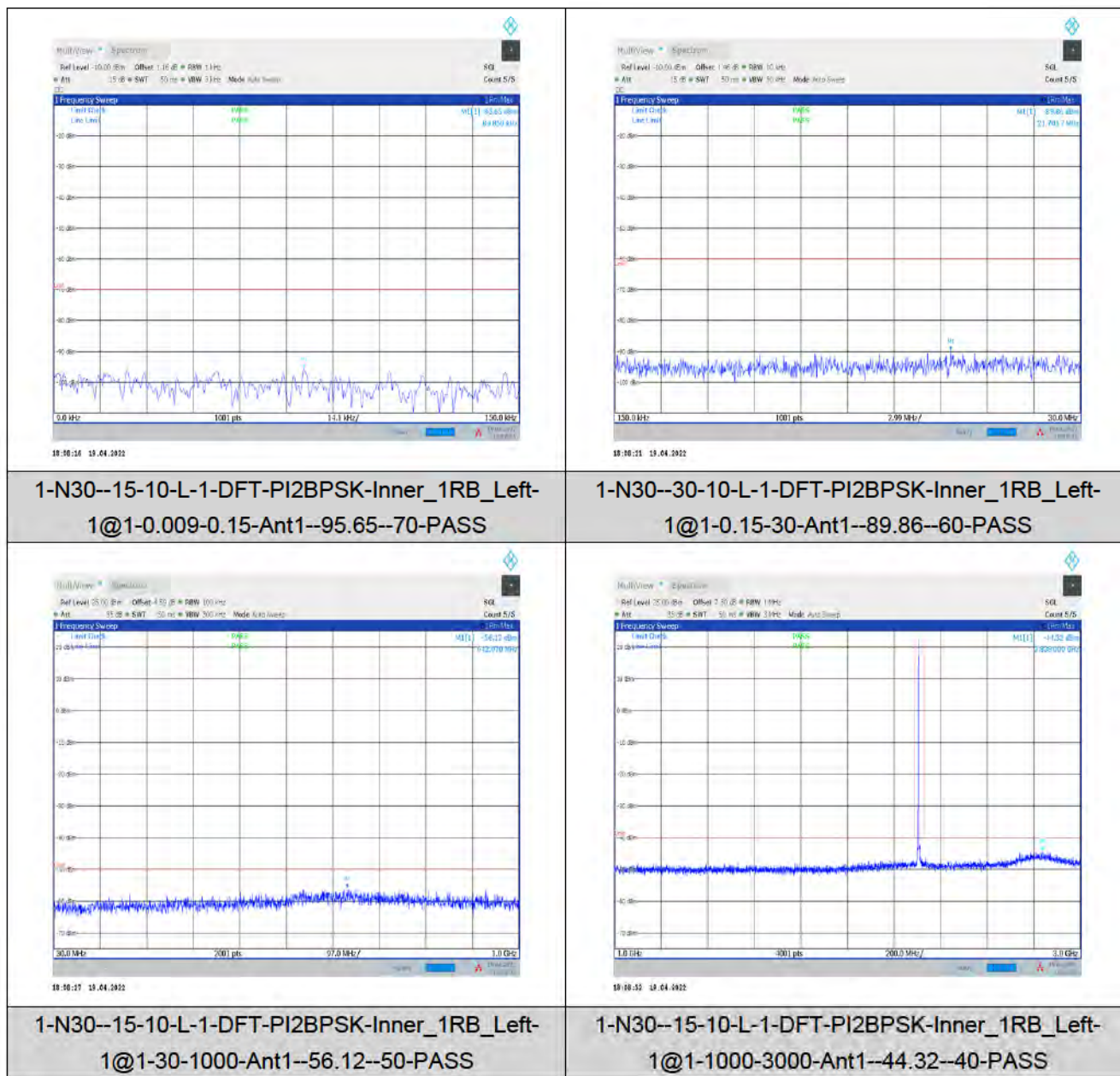
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Conducted Spurious Emission for SA

Test Graphs



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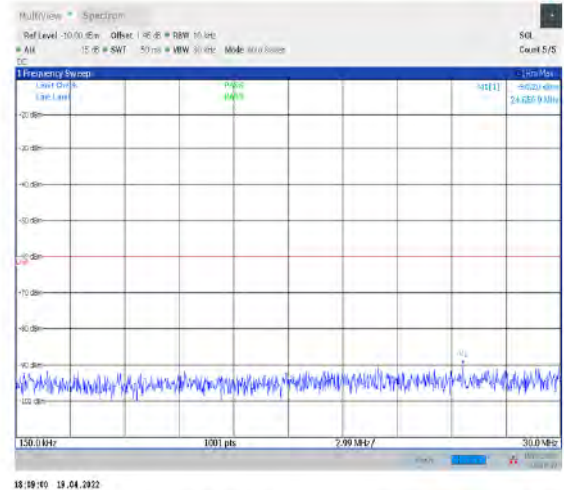
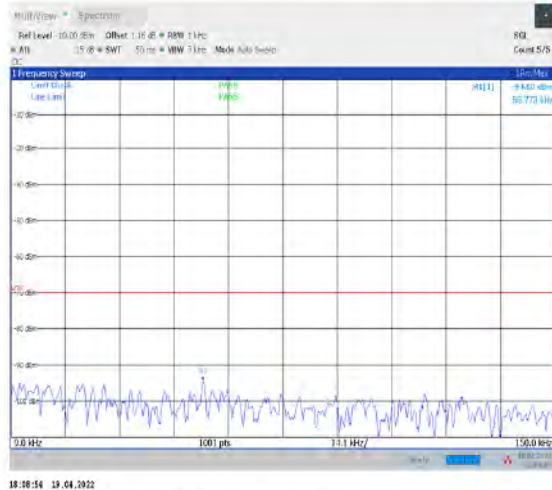
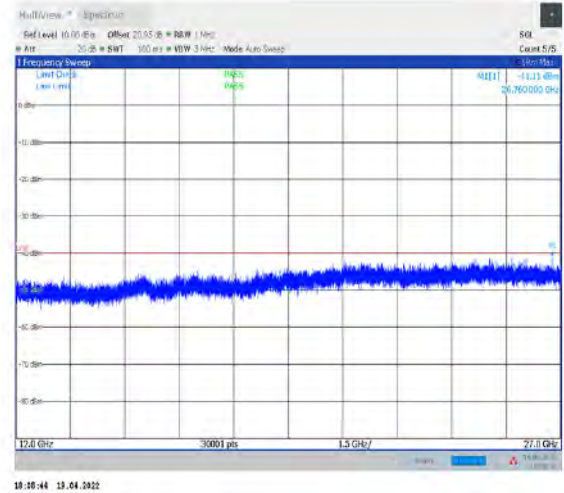
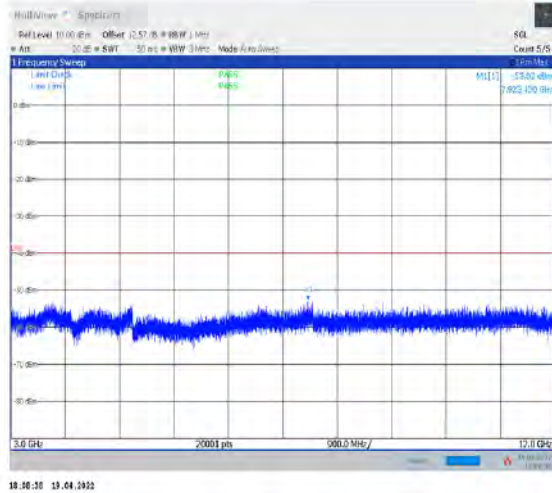
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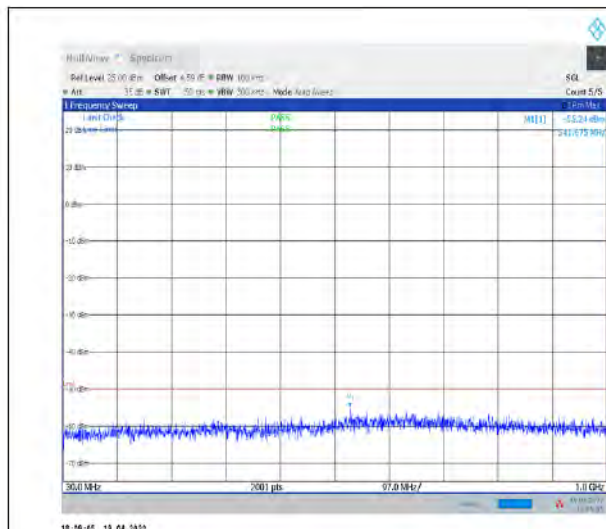
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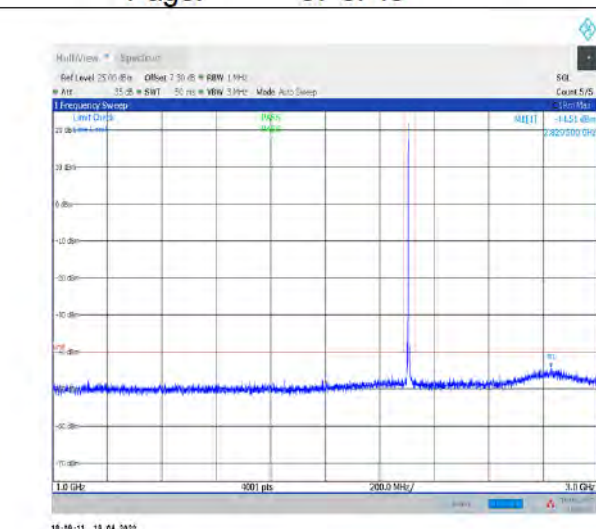
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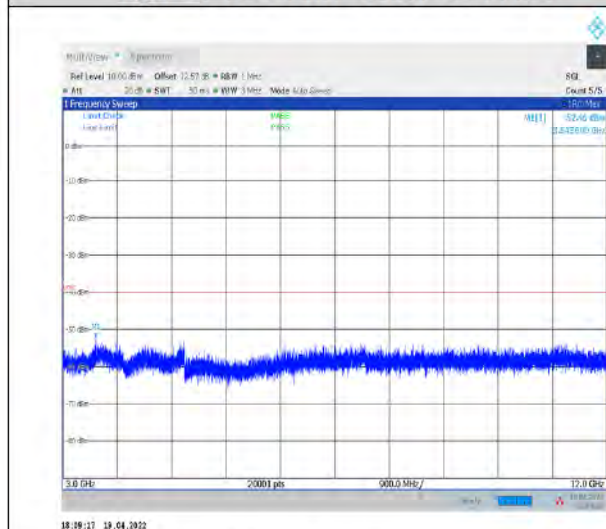
18.19.15 19.04.2022

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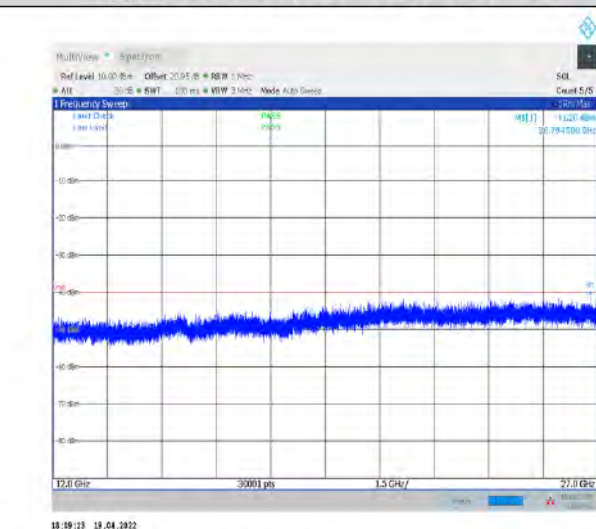
18.19.11 19.04.2022

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18.19.17 19.04.2022

1-N30--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant1--52.46--40-PASS



18.19.19 19.04.2022

1-N30--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-27000-Ant1--41.20--40-PASS



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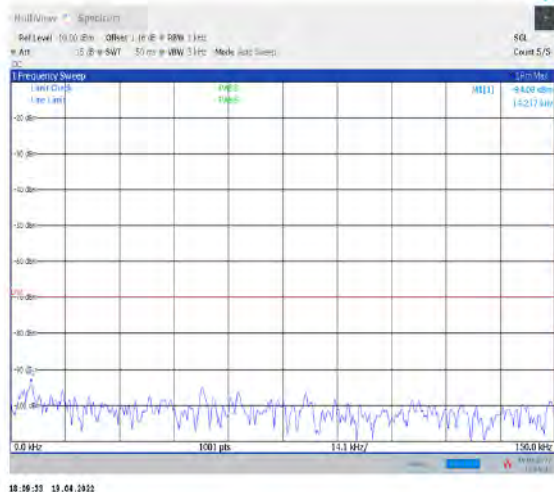
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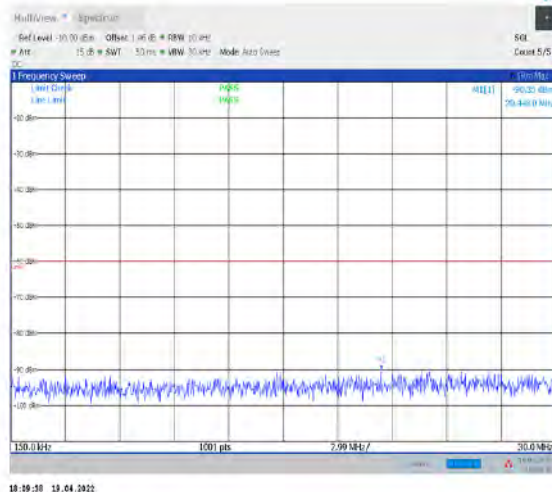
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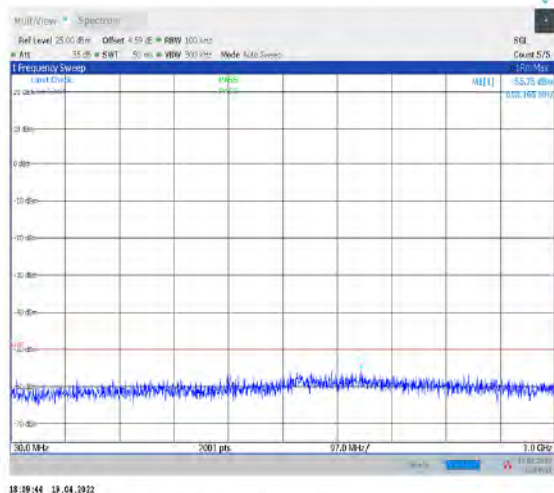
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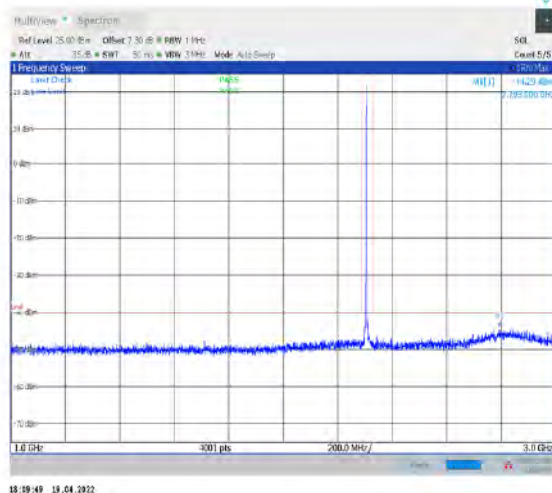
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1-N30--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1--90.35--60-PASS



1-N30--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1--55.75--50-PASS



1-N30--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1--44.29--40-PASS



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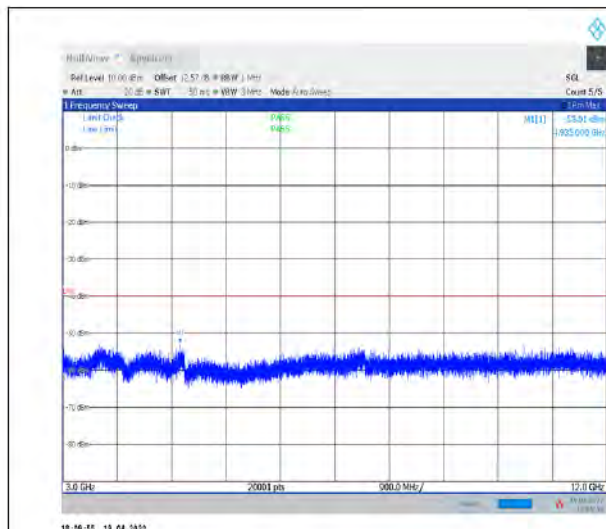
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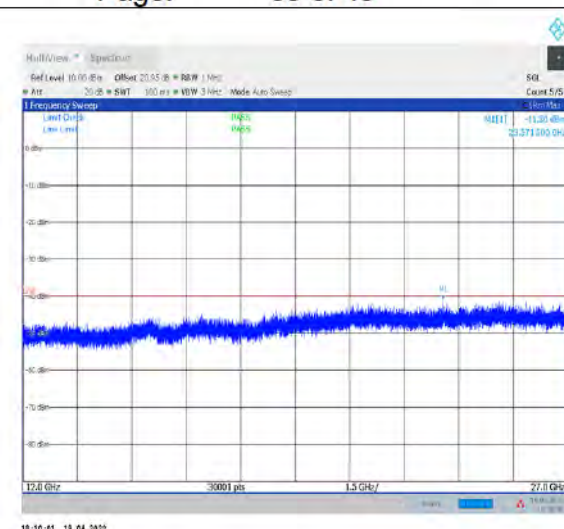
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1-N30--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-
1@1-3000-12000-Ant1--53.01--40-PASS



1-N30--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-
1@1-12000-27000-Ant1--41.30--40-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 30 BW 10M_ TM1

Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4611.18	50.73	-108.05	-57.32	-40.00	17.32	263	96	Horizontal
2	6916.77	47.76	-101.68	-53.92	-40.00	13.92	251	263	Horizontal
3	9222.36	46.21	-95.08	-48.87	-40.00	8.87	142	241	Horizontal
4	11527.95	42.88	-91.44	-48.56	-40.00	8.56	266	357	Horizontal
5	13833.54	42.16	-90.03	-47.87	-40.00	7.87	244	144	Horizontal
6	16139.13	41.92	-90.60	-48.68	-40.00	8.68	265	302	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4611.18	49.14	-108.05	-58.91	-40.00	18.91	263	1	Vertical
2	6916.77	49.70	-101.68	-51.98	-40.00	11.98	251	0	Vertical
3	9222.36	47.06	-95.08	-48.02	-40.00	8.02	142	278	Vertical
4	11527.95	42.64	-91.44	-48.80	-40.00	8.80	284	7	Vertical
5	13833.54	43.32	-90.03	-46.71	-40.00	6.71	176	81	Vertical
6	16139.13	42.40	-90.60	-48.20	-40.00	8.20	265	302	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]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.68	52.55	-108.05	-55.50	-40.00	15.50	163	161	Horizontal
2	6916.02	48.52	-101.68	-53.16	-40.00	13.16	251	185	Horizontal
3	9221.36	46.72	-95.08	-48.36	-40.00	8.36	174	104	Horizontal
4	11526.7	42.18	-91.44	-49.26	-40.00	9.26	186	115	Horizontal
5	13832.04	42.32	-90.05	-47.73	-40.00	7.73	265	151	Horizontal
6	16137.38	43.17	-90.62	-47.45	-40.00	7.45	244	209	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.68	51.43	-108.05	-56.62	-40.00	16.62	163	348	Vertical
2	6916.02	47.81	-101.68	-53.87	-40.00	13.87	284	7	Vertical
3	9221.36	46.94	-95.08	-48.14	-40.00	8.14	176	337	Vertical
4	11526.7	42.28	-91.44	-49.16	-40.00	9.16	255	348	Vertical
5	13832.04	42.67	-90.05	-47.38	-40.00	7.38	144	0	Vertical
6	16137.38	42.17	-90.62	-48.45	-40.00	8.45	177	326	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]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.68	51.22	-108.03	-56.81	-40.00	16.81	263	234	Horizontal
2	6923.52	49.49	-101.68	-52.19	-40.00	12.19	241	44	Horizontal
3	9231.36	47.60	-95.08	-47.48	-40.00	7.48	176	22	Horizontal
4	11539.2	41.65	-91.51	-49.86	-40.00	9.86	284	326	Horizontal
5	13847.04	42.05	-89.92	-47.87	-40.00	7.87	176	326	Horizontal
6	16154.88	41.95	-90.46	-48.51	-40.00	8.51	254	7	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.68	49.75	-108.03	-58.28	-40.00	18.28	263	47	Vertical
2	6923.52	49.50	-101.68	-52.18	-40.00	12.18	251	117	Vertical
3	9231.36	46.68	-95.08	-48.40	-40.00	8.40	174	314	Vertical
4	11539.2	41.11	-91.51	-50.40	-40.00	10.40	186	349	Vertical
5	13847.04	42.34	-89.92	-47.58	-40.00	7.58	254	57	Vertical
6	16154.88	42.59	-90.46	-47.87	-40.00	7.87	144	35	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]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.68	49.99	-108.00	-58.01	-40.00	18.01	142	44	Horizontal
2	6931.02	49.21	-101.68	-52.47	-40.00	12.47	263	196	Horizontal
3	9241.32	47.16	-95.08	-47.92	-40.00	7.92	286	303	Horizontal
4	11551.7	42.07	-91.59	-49.52	-40.00	9.52	241	44	Horizontal
5	13862.04	41.09	-89.78	-48.69	-40.00	8.69	177	44	Horizontal
6	16172.38	43.03	-90.28	-47.25	-40.00	7.25	266	92	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.68	49.40	-108.00	-58.60	-40.00	18.60	142	14	Vertical
2	6931.02	47.89	-101.68	-53.79	-40.00	13.79	263	14	Vertical
3	9241.32	48.85	-95.08	-46.23	-40.00	6.23	286	209	Vertical
4	11551.7	41.27	-91.59	-50.32	-40.00	10.32	241	245	Vertical
5	13862.04	42.08	-89.78	-47.70	-40.00	7.70	177	0	Vertical
6	16172.38	41.98	-90.28	-48.30	-40.00	8.30	261	245	Vertical



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Test on the worst case:

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 = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – 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

Voltage										
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

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