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Appendix B.33

NR Band n2



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
N2	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	23.4	23.65	33	PASS
N2	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	23.27	23.52	33	PASS
N2	15	5	DFT-PI2BPSK	L	Outer_Full	23.46	23.71	33	PASS
N2	15	5	DFT-QPSK	L	Inner_1RB_Left	23.39	23.64	33	PASS
N2	15	5	DFT-QPSK	L	Inner_1RB_Right	23.3	23.55	33	PASS
N2	15	5	DFT-QPSK	L	Outer_Full	23.45	23.7	33	PASS
N2	15	5	DFT-16QAM	L	Inner_1RB_Left	23.39	23.64	33	PASS
N2	15	5	DFT-16QAM	L	Inner_1RB_Right	23.32	23.57	33	PASS
N2	15	5	DFT-16QAM	L	Outer_Full	22.54	22.79	33	PASS
N2	15	5	DFT-64QAM	L	Inner_1RB_Left	22.37	22.62	33	PASS
N2	15	5	DFT-64QAM	L	Inner_1RB_Right	22.19	22.44	33	PASS
N2	15	5	DFT-64QAM	L	Outer_Full	22.04	22.29	33	PASS
N2	15	5	DFT-256QAM	L	Inner_1RB_Left	19.48	19.73	33	PASS
N2	15	5	DFT-256QAM	L	Inner_1RB_Right	19.49	19.74	33	PASS
N2	15	5	DFT-256QAM	L	Outer_Full	19.42	19.67	33	PASS
N2	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	23.45	23.7	33	PASS
N2	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	23.29	23.54	33	PASS
N2	15	5	DFT-PI2BPSK	M	Outer_Full	23.49	23.74	33	PASS
N2	15	5	DFT-QPSK	M	Inner_1RB_Left	23.3	23.55	33	PASS
N2	15	5	DFT-QPSK	M	Inner_1RB_Right	23.33	23.58	33	PASS
N2	15	5	DFT-QPSK	M	Outer_Full	23.49	23.74	33	PASS
N2	15	5	DFT-16QAM	M	Inner_1RB_Left	23.47	23.72	33	PASS
N2	15	5	DFT-16QAM	M	Inner_1RB_Right	23.39	23.64	33	PASS
N2	15	5	DFT-16QAM	M	Outer_Full	22.6	22.85	33	PASS
N2	15	5	DFT-64QAM	M	Inner_1RB_Left	22.28	22.53	33	PASS
N2	15	5	DFT-64QAM	M	Inner_1RB_Right	22.17	22.42	33	PASS
N2	15	5	DFT-64QAM	M	Outer_Full	22.09	22.34	33	PASS
N2	15	5	DFT-256QAM	M	Inner_1RB_Left	19.59	19.84	33	PASS
N2	15	5	DFT-256QAM	M	Inner_1RB_Right	19.47	19.72	33	PASS
N2	15	5	DFT-256QAM	M	Outer_Full	19.46	19.71	33	PASS
N2	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	23.37	23.62	33	PASS



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N2	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	23.31	23.56	33	PASS
N2	15	5	DFT-PI2BPSK	H	Outer_Full	23.4	23.65	33	PASS
N2	15	5	DFT-QPSK	H	Inner_1RB_Left	23.45	23.7	33	PASS
N2	15	5	DFT-QPSK	H	Inner_1RB_Right	23.42	23.67	33	PASS
N2	15	5	DFT-QPSK	H	Outer_Full	23.45	23.7	33	PASS
N2	15	5	DFT-16QAM	H	Inner_1RB_Left	23.43	23.68	33	PASS
N2	15	5	DFT-16QAM	H	Inner_1RB_Right	23.36	23.61	33	PASS
N2	15	5	DFT-16QAM	H	Outer_Full	22.54	22.79	33	PASS
N2	15	5	DFT-64QAM	H	Inner_1RB_Left	22.31	22.56	33	PASS
N2	15	5	DFT-64QAM	H	Inner_1RB_Right	22.17	22.42	33	PASS
N2	15	5	DFT-64QAM	H	Outer_Full	22.04	22.29	33	PASS
N2	15	5	DFT-256QAM	H	Inner_1RB_Left	19.5	19.75	33	PASS
N2	15	5	DFT-256QAM	H	Inner_1RB_Right	19.52	19.77	33	PASS
N2	15	5	DFT-256QAM	H	Outer_Full	19.9	20.15	33	PASS
N2	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	23.4	23.65	33	PASS
N2	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	23.34	23.59	33	PASS
N2	15	10	DFT-PI2BPSK	L	Outer_Full	23.42	23.67	33	PASS
N2	15	10	DFT-QPSK	L	Inner_1RB_Left	23.51	23.76	33	PASS
N2	15	10	DFT-QPSK	L	Inner_1RB_Right	23.32	23.57	33	PASS
N2	15	10	DFT-QPSK	L	Outer_Full	23.42	23.67	33	PASS
N2	15	10	DFT-16QAM	L	Inner_1RB_Left	23.38	23.63	33	PASS
N2	15	10	DFT-16QAM	L	Inner_1RB_Right	23.35	23.6	33	PASS
N2	15	10	DFT-16QAM	L	Outer_Full	22.55	22.8	33	PASS
N2	15	10	DFT-64QAM	L	Inner_1RB_Left	22.25	22.5	33	PASS
N2	15	10	DFT-64QAM	L	Inner_1RB_Right	22.18	22.43	33	PASS
N2	15	10	DFT-64QAM	L	Outer_Full	22.05	22.3	33	PASS
N2	15	10	DFT-256QAM	L	Inner_1RB_Left	19.49	19.74	33	PASS
N2	15	10	DFT-256QAM	L	Inner_1RB_Right	19.44	19.69	33	PASS
N2	15	10	DFT-256QAM	L	Outer_Full	19.88	20.13	33	PASS
N2	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	23.4	23.65	33	PASS
N2	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	23.39	23.64	33	PASS
N2	15	10	DFT-PI2BPSK	M	Outer_Full	23.47	23.72	33	PASS
N2	15	10	DFT-QPSK	M	Inner_1RB_Left	23.46	23.71	33	PASS
N2	15	10	DFT-QPSK	M	Inner_1RB_Right	23.41	23.66	33	PASS
N2	15	10	DFT-QPSK	M	Outer_Full	23.51	23.76	33	PASS
N2	15	10	DFT-16QAM	M	Inner_1RB_Left	23.47	23.72	33	PASS
N2	15	10	DFT-16QAM	M	Inner_1RB_Right	23.31	23.56	33	PASS



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N2	15	10	DFT-16QAM	M	Outer_Full	22.57	22.82	33	PASS
N2	15	10	DFT-64QAM	M	Inner_1RB_Left	22.38	22.63	33	PASS
N2	15	10	DFT-64QAM	M	Inner_1RB_Right	22.19	22.44	33	PASS
N2	15	10	DFT-64QAM	M	Outer_Full	22.05	22.3	33	PASS
N2	15	10	DFT-256QAM	M	Inner_1RB_Left	19.58	19.83	33	PASS
N2	15	10	DFT-256QAM	M	Inner_1RB_Right	19.46	19.71	33	PASS
N2	15	10	DFT-256QAM	M	Outer_Full	19.96	20.21	33	PASS
N2	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	23.43	23.68	33	PASS
N2	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	23.35	23.6	33	PASS
N2	15	10	DFT-PI2BPSK	H	Outer_Full	23.41	23.66	33	PASS
N2	15	10	DFT-QPSK	H	Inner_1RB_Left	23.52	23.77	33	PASS
N2	15	10	DFT-QPSK	H	Inner_1RB_Right	23.43	23.68	33	PASS
N2	15	10	DFT-QPSK	H	Outer_Full	23.49	23.74	33	PASS
N2	15	10	DFT-16QAM	H	Inner_1RB_Left	23.5	23.75	33	PASS
N2	15	10	DFT-16QAM	H	Inner_1RB_Right	23.34	23.59	33	PASS
N2	15	10	DFT-16QAM	H	Outer_Full	22.52	22.77	33	PASS
N2	15	10	DFT-64QAM	H	Inner_1RB_Left	22.24	22.49	33	PASS
N2	15	10	DFT-64QAM	H	Inner_1RB_Right	22.22	22.47	33	PASS
N2	15	10	DFT-64QAM	H	Outer_Full	22.06	22.31	33	PASS
N2	15	10	DFT-256QAM	H	Inner_1RB_Left	19.48	19.73	33	PASS
N2	15	10	DFT-256QAM	H	Inner_1RB_Right	19.46	19.71	33	PASS
N2	15	10	DFT-256QAM	H	Outer_Full	19.99	20.24	33	PASS
N2	15	15	DFT-PI2BPSK	L	Inner_1RB_Left	23.59	23.84	33	PASS
N2	15	15	DFT-PI2BPSK	L	Inner_1RB_Right	23.57	23.82	33	PASS
N2	15	15	DFT-PI2BPSK	L	Outer_Full	23.63	23.88	33	PASS
N2	15	15	DFT-QPSK	L	Inner_1RB_Left	23.42	23.67	33	PASS
N2	15	15	DFT-QPSK	L	Inner_1RB_Right	23.49	23.74	33	PASS
N2	15	15	DFT-QPSK	L	Outer_Full	23.69	23.94	33	PASS
N2	15	15	DFT-16QAM	L	Inner_1RB_Left	23.59	23.84	33	PASS
N2	15	15	DFT-16QAM	L	Inner_1RB_Right	23.42	23.67	33	PASS
N2	15	15	DFT-16QAM	L	Outer_Full	22.75	23	33	PASS
N2	15	15	DFT-64QAM	L	Inner_1RB_Left	22.46	22.71	33	PASS
N2	15	15	DFT-64QAM	L	Inner_1RB_Right	22.41	22.66	33	PASS
N2	15	15	DFT-64QAM	L	Outer_Full	22.28	22.53	33	PASS
N2	15	15	DFT-256QAM	L	Inner_1RB_Left	19.63	19.88	33	PASS
N2	15	15	DFT-256QAM	L	Inner_1RB_Right	19.63	19.88	33	PASS
N2	15	15	DFT-256QAM	L	Outer_Full	20.24	20.49	33	PASS



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N2	15	15	DFT-PI2BPSK	M	Inner_1RB_Left	23.54	23.79	33	PASS
N2	15	15	DFT-PI2BPSK	M	Inner_1RB_Right	23.51	23.76	33	PASS
N2	15	15	DFT-PI2BPSK	M	Outer_Full	23.66	23.91	33	PASS
N2	15	15	DFT-QPSK	M	Inner_1RB_Left	23.68	23.93	33	PASS
N2	15	15	DFT-QPSK	M	Inner_1RB_Right	23.5	23.75	33	PASS
N2	15	15	DFT-QPSK	M	Outer_Full	23.64	23.89	33	PASS
N2	15	15	DFT-16QAM	M	Inner_1RB_Left	23.58	23.83	33	PASS
N2	15	15	DFT-16QAM	M	Inner_1RB_Right	23.51	23.76	33	PASS
N2	15	15	DFT-16QAM	M	Outer_Full	22.77	23.02	33	PASS
N2	15	15	DFT-64QAM	M	Inner_1RB_Left	22.51	22.76	33	PASS
N2	15	15	DFT-64QAM	M	Inner_1RB_Right	22.36	22.61	33	PASS
N2	15	15	DFT-64QAM	M	Outer_Full	22.25	22.5	33	PASS
N2	15	15	DFT-256QAM	M	Inner_1RB_Left	19.65	19.9	33	PASS
N2	15	15	DFT-256QAM	M	Inner_1RB_Right	19.57	19.82	33	PASS
N2	15	15	DFT-256QAM	M	Outer_Full	20.14	20.39	33	PASS
N2	15	15	DFT-PI2BPSK	H	Inner_1RB_Left	23.49	23.74	33	PASS
N2	15	15	DFT-PI2BPSK	H	Inner_1RB_Right	23.5	23.75	33	PASS
N2	15	15	DFT-PI2BPSK	H	Outer_Full	23.6	23.85	33	PASS
N2	15	15	DFT-QPSK	H	Inner_1RB_Left	23.53	23.78	33	PASS
N2	15	15	DFT-QPSK	H	Inner_1RB_Right	23.51	23.76	33	PASS
N2	15	15	DFT-QPSK	H	Outer_Full	23.59	23.84	33	PASS
N2	15	15	DFT-16QAM	H	Inner_1RB_Left	23.43	23.68	33	PASS
N2	15	15	DFT-16QAM	H	Inner_1RB_Right	23.51	23.76	33	PASS
N2	15	15	DFT-16QAM	H	Outer_Full	22.77	23.02	33	PASS
N2	15	15	DFT-64QAM	H	Inner_1RB_Left	22.3	22.55	33	PASS
N2	15	15	DFT-64QAM	H	Inner_1RB_Right	22.34	22.59	33	PASS
N2	15	15	DFT-64QAM	H	Outer_Full	22.32	22.57	33	PASS
N2	15	15	DFT-256QAM	H	Inner_1RB_Left	19.56	19.81	33	PASS
N2	15	15	DFT-256QAM	H	Inner_1RB_Right	19.61	19.86	33	PASS
N2	15	15	DFT-256QAM	H	Outer_Full	20.12	20.37	33	PASS
N2	15	20	DFT-PI2BPSK	L	Inner_1RB_Left	23.51	23.76	33	PASS
N2	15	20	DFT-PI2BPSK	L	Inner_1RB_Right	23.67	23.92	33	PASS
N2	15	20	DFT-PI2BPSK	L	Outer_Full	23.62	23.87	33	PASS
N2	15	20	DFT-QPSK	L	Inner_1RB_Left	23.58	23.83	33	PASS
N2	15	20	DFT-QPSK	L	Inner_1RB_Right	23.67	23.92	33	PASS
N2	15	20	DFT-QPSK	L	Outer_Full	23.61	23.86	33	PASS
N2	15	20	DFT-16QAM	L	Inner_1RB_Left	23.51	23.76	33	PASS



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N2	15	20	DFT-16QAM	L	Inner_1RB_Right	23.66	23.91	33	PASS
N2	15	20	DFT-16QAM	L	Outer_Full	22.71	22.96	33	PASS
N2	15	20	DFT-64QAM	L	Inner_1RB_Left	22.37	22.62	33	PASS
N2	15	20	DFT-64QAM	L	Inner_1RB_Right	22.55	22.8	33	PASS
N2	15	20	DFT-64QAM	L	Outer_Full	22.32	22.57	33	PASS
N2	15	20	DFT-256QAM	L	Inner_1RB_Left	19.68	19.93	33	PASS
N2	15	20	DFT-256QAM	L	Inner_1RB_Right	19.63	19.88	33	PASS
N2	15	20	DFT-256QAM	L	Outer_Full	20.2	20.45	33	PASS
N2	15	20	DFT-PI2BPSK	M	Inner_1RB_Left	23.53	23.78	33	PASS
N2	15	20	DFT-PI2BPSK	M	Inner_1RB_Right	23.49	23.74	33	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	23.54	23.79	33	PASS
N2	15	20	DFT-QPSK	M	Inner_1RB_Left	23.69	23.94	33	PASS
N2	15	20	DFT-QPSK	M	Inner_1RB_Right	23.45	23.7	33	PASS
N2	15	20	DFT-QPSK	M	Outer_Full	23.59	23.84	33	PASS
N2	15	20	DFT-16QAM	M	Inner_1RB_Left	23.62	23.87	33	PASS
N2	15	20	DFT-16QAM	M	Inner_1RB_Right	23.53	23.78	33	PASS
N2	15	20	DFT-16QAM	M	Outer_Full	22.7	22.95	33	PASS
N2	15	20	DFT-64QAM	M	Inner_1RB_Left	22.51	22.76	33	PASS
N2	15	20	DFT-64QAM	M	Inner_1RB_Right	22.33	22.58	33	PASS
N2	15	20	DFT-64QAM	M	Outer_Full	22.21	22.46	33	PASS
N2	15	20	DFT-256QAM	M	Inner_1RB_Left	19.7	19.95	33	PASS
N2	15	20	DFT-256QAM	M	Inner_1RB_Right	19.6	19.85	33	PASS
N2	15	20	DFT-256QAM	M	Outer_Full	20.11	20.36	33	PASS
N2	15	20	DFT-PI2BPSK	H	Inner_1RB_Left	23.49	23.74	33	PASS
N2	15	20	DFT-PI2BPSK	H	Inner_1RB_Right	23.48	23.73	33	PASS
N2	15	20	DFT-PI2BPSK	H	Outer_Full	23.55	23.8	33	PASS
N2	15	20	DFT-QPSK	H	Inner_1RB_Left	23.54	23.79	33	PASS
N2	15	20	DFT-QPSK	H	Inner_1RB_Right	23.5	23.75	33	PASS
N2	15	20	DFT-QPSK	H	Outer_Full	23.55	23.8	33	PASS
N2	15	20	DFT-16QAM	H	Inner_1RB_Left	23.51	23.76	33	PASS
N2	15	20	DFT-16QAM	H	Inner_1RB_Right	23.51	23.76	33	PASS
N2	15	20	DFT-16QAM	H	Outer_Full	22.69	22.94	33	PASS
N2	15	20	DFT-64QAM	H	Inner_1RB_Left	22.44	22.69	33	PASS
N2	15	20	DFT-64QAM	H	Inner_1RB_Right	22.34	22.59	33	PASS
N2	15	20	DFT-64QAM	H	Outer_Full	22.15	22.4	33	PASS
N2	15	20	DFT-256QAM	H	Inner_1RB_Left	19.59	19.84	33	PASS
N2	15	20	DFT-256QAM	H	Inner_1RB_Right	19.57	19.82	33	PASS



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Peak-to-Average Ratio for SA

Peak-to-Average Ratio(CCDF)

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N2	15	20	DFT-256QAM	L	Outer_Full	6.86	13	PASS
N2	15	20	CP-256QAM	L	Outer_Full	8.64	13	PASS
N2	15	20	DFT-256QAM	M	Outer_Full	6.92	13	PASS
N2	15	20	CP-256QAM	M	Outer_Full	8.74	13	PASS
N2	15	20	DFT-256QAM	H	Outer_Full	6.97	13	PASS
N2	15	20	CP-256QAM	H	Outer_Full	8.75	13	PASS



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Test Graphs



1-N2-15-20-L-1-DFT-256QAM-Outer_Full-100@0-14.
75-14.75-19~27.5-PASS



1-N2-15-20-L-2-CP-256QAM-Outer_Full-106@0-12.
79-12.79-19~27.5-PASS



1-N2-15-20-M-1-DFT-256QAM-Outer_Full-100@0-14
.53-14.53-19~27.5-PASS



1-N2-15-20-M-2-CP-256QAM-Outer_Full-106@0-12
.60-12.60-19~27.5-PASS



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1-N2-15-20-H-1-DFT-256QAM-Outer_Full-100@0-13
.91-13.91-19~27.5-PASS



1-N2-15-20-H-2-CP-256QAM-Outer_Full-106@0-11.
92-11.92-19~27.5-PASS



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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
N2	15	5	DFT-QPSK	M	Outer_Full	4.478	4.990	PASS
N2	15	5	DFT-PI2BPSK	M	Outer_Full	4.477	4.990	PASS
N2	15	5	DFT-16QAM	M	Outer_Full	4.48	5.060	PASS
N2	15	5	DFT-64QAM	M	Outer_Full	4.493	5.080	PASS
N2	15	5	DFT-256QAM	M	Outer_Full	4.487	5.050	PASS
N2	15	5	CP-QPSK	M	Outer_Full	4.513	5.290	PASS
N2	15	5	CP-16QAM	M	Outer_Full	4.537	5.130	PASS
N2	15	5	CP-64QAM	M	Outer_Full	4.513	5.200	PASS
N2	15	5	CP-256QAM	M	Outer_Full	4.475	5.080	PASS
N2	15	10	DFT-QPSK	M	Outer_Full	8.94	9.560	PASS
N2	15	10	DFT-PI2BPSK	M	Outer_Full	8.911	9.680	PASS
N2	15	10	DFT-16QAM	M	Outer_Full	8.946	9.640	PASS
N2	15	10	DFT-64QAM	M	Outer_Full	8.952	9.720	PASS
N2	15	10	DFT-256QAM	M	Outer_Full	8.935	9.560	PASS
N2	15	10	CP-QPSK	M	Outer_Full	9.298	10.100	PASS
N2	15	10	CP-16QAM	M	Outer_Full	9.298	10.240	PASS
N2	15	10	CP-64QAM	M	Outer_Full	9.283	9.920	PASS
N2	15	10	CP-256QAM	M	Outer_Full	9.317	10.080	PASS
N2	15	15	DFT-QPSK	M	Outer_Full	13.473	14.580	PASS
N2	15	15	DFT-PI2BPSK	M	Outer_Full	13.496	14.550	PASS
N2	15	15	DFT-16QAM	M	Outer_Full	13.482	14.520	PASS
N2	15	15	DFT-64QAM	M	Outer_Full	13.477	14.550	PASS
N2	15	15	DFT-256QAM	M	Outer_Full	13.481	14.550	PASS
N2	15	15	CP-QPSK	M	Outer_Full	14.15	15.000	PASS
N2	15	15	CP-16QAM	M	Outer_Full	14.199	15.270	PASS
N2	15	15	CP-64QAM	M	Outer_Full	14.177	15.210	PASS
N2	15	15	CP-256QAM	M	Outer_Full	14.15	15.000	PASS
N2	15	20	DFT-QPSK	M	Outer_Full	17.906	18.920	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	17.897	19.040	PASS
N2	15	20	DFT-16QAM	M	Outer_Full	17.927	18.960	PASS
N2	15	20	DFT-64QAM	M	Outer_Full	17.893	19.000	PASS



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N2	15	20	DFT-256QAM	M	Outer_Full	17.878	18.880	PASS
N2	15	20	CP-QPSK	M	Outer_Full	18.894	19.920	PASS
N2	15	20	CP-16QAM	M	Outer_Full	19.006	20.040	PASS
N2	15	20	CP-64QAM	M	Outer_Full	18.914	20.040	PASS
N2	15	20	CP-256QAM	M	Outer_Full	19.051	20.040	PASS



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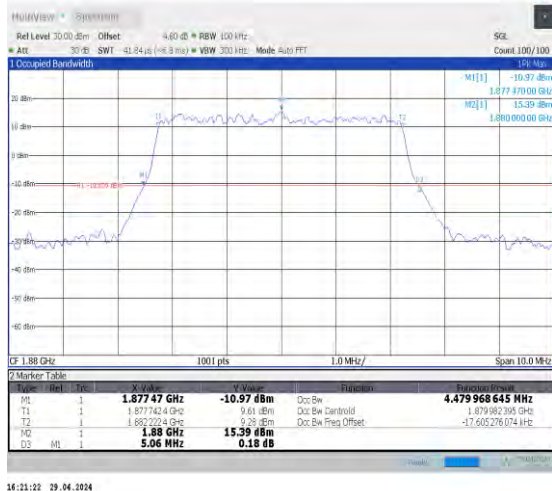
Test Graphs



1-N2-15-5-M-1-DFT-QPSK-Outer_Full-25@0-Ant0-4.
478-4.990-≤5-PASS



1-N2-15-5-M-2-DFT-PI2BPSK-Outer_Full-25@0-Ant0-4.
0-4.477-4.990-≤5-PASS



1-N2-15-5-M-3-DFT-16QAM-Outer_Full-25@0-Ant0-4.
4.48-5.060-≤5-PASS



1-N2-15-5-M-4-DFT-64QAM-Outer_Full-25@0-Ant0-4.
4.493-5.080-≤5-PASS



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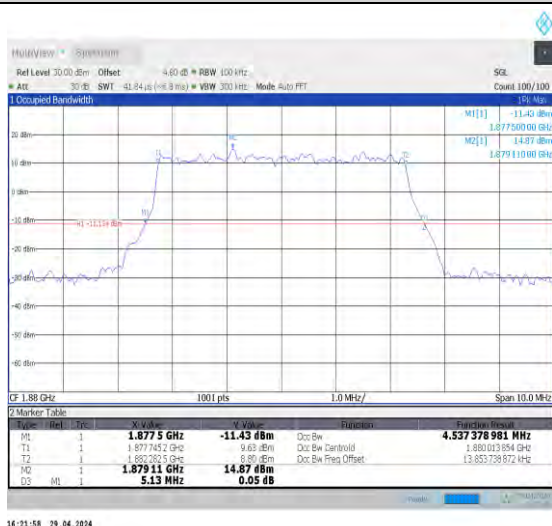
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1-N2-15-5-M-5-DFT-256QAM-Outer_Full-25@0-Ant0
-4.487-5.050-≤5-PASS

1-N2-15-5-M-6-CP-QPSK-Outer_Full-25@0-Ant0-4.
513-5.290-≤5-PASS



1-N2-15-5-M-7-CP-16QAM-Outer_Full-25@0-Ant0-4.
537-5.130-≤5-PASS

1-N2-15-5-M-8-CP-64QAM-Outer_Full-25@0-Ant0-4
.513-5.200-≤5-PASS



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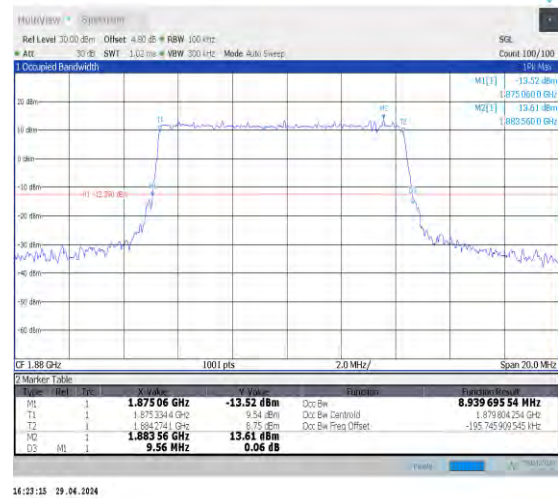
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1-N2-15-5-M-9-CP-256QAM-Outer_Full-25@0-Ant0-
4.475-5.080-≤5-PASS



1-N2-15-10-M-1-DFT-QPSK-Outer_Full-50@0-Ant0-
8.94-9.560-≤10-PASS



1-N2-15-10-M-2-DFT-PI2BPSK-Outer_Full-50@0-Ant0-
8.911-9.680-≤10-PASS



1-N2-15-10-M-3-DFT-16QAM-Outer_Full-50@0-Ant0-
-8.946-9.640-≤10-PASS



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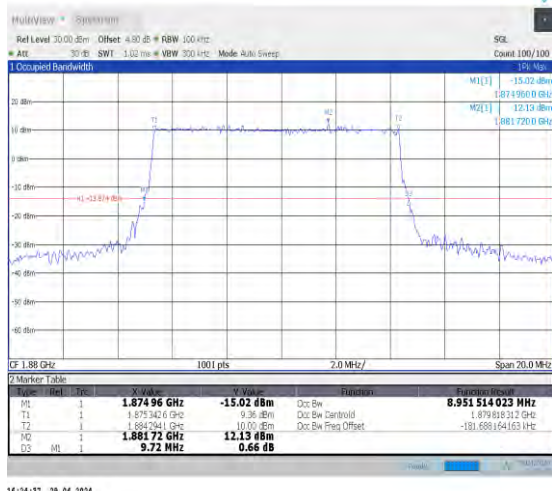
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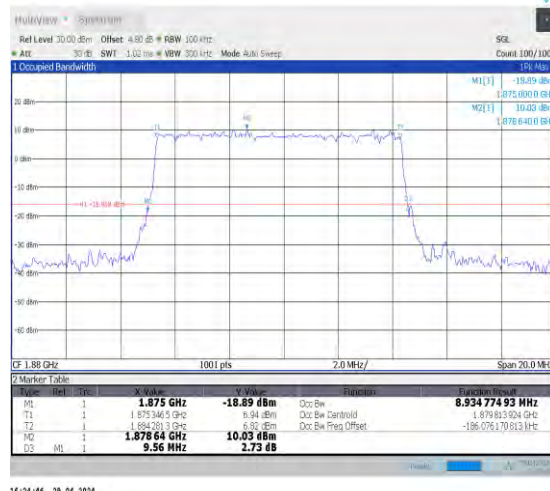
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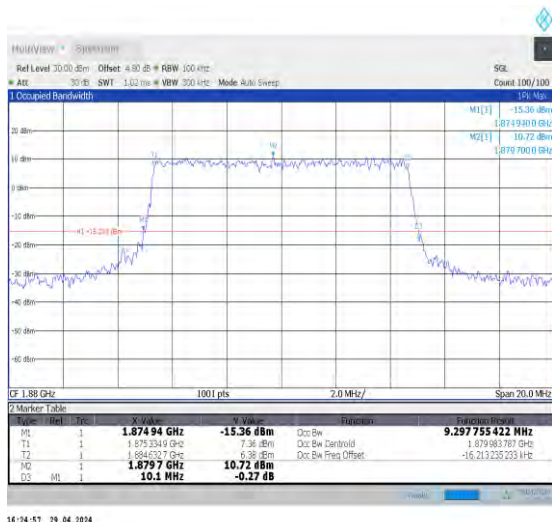
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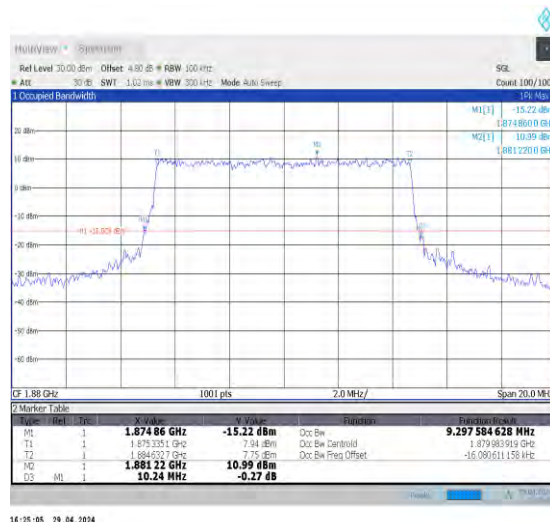
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-8.952-9.720-≤10-PASS

1-N2-15-10-M-5-DFT-256QAM-Outer_Full-50@0-Ant
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16:24:57 29.04.2024



16:25:05 29.04.2024

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298-10.100-≤10-PASS

1-N2-15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant0-
9.298-10.240-≤10-PASS



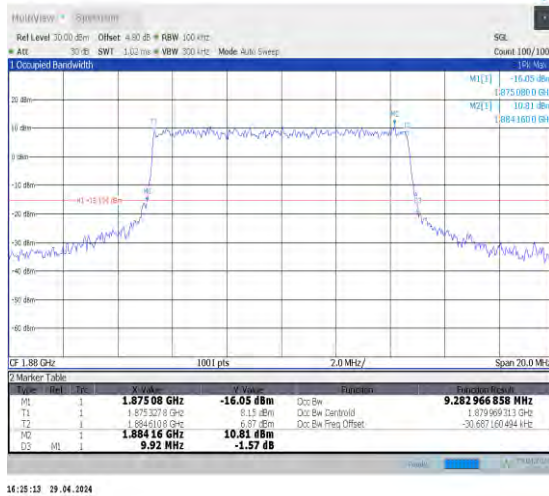
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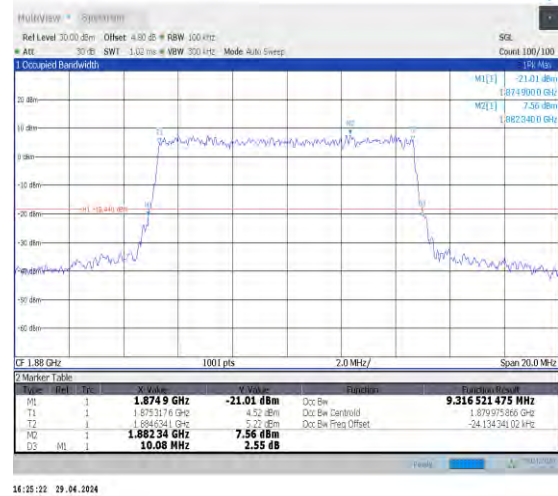
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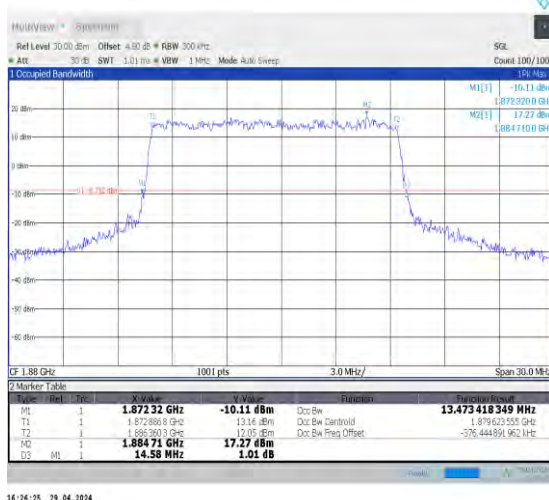
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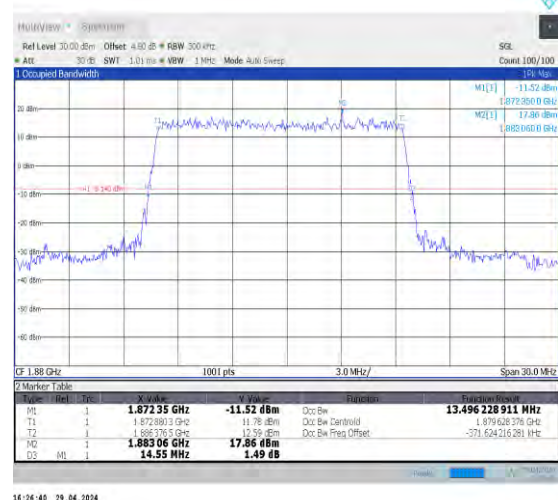
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16:24:46 29.04.2024

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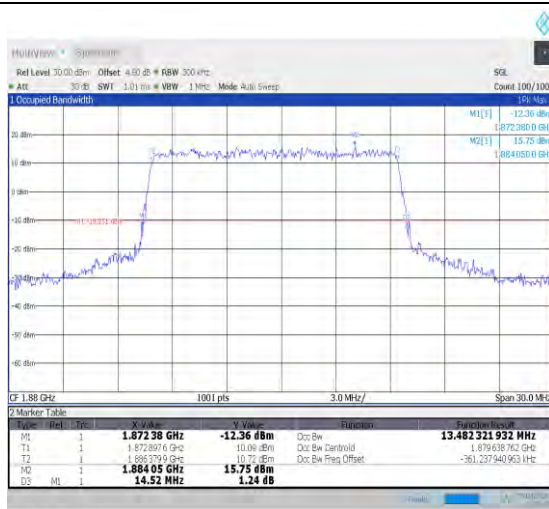
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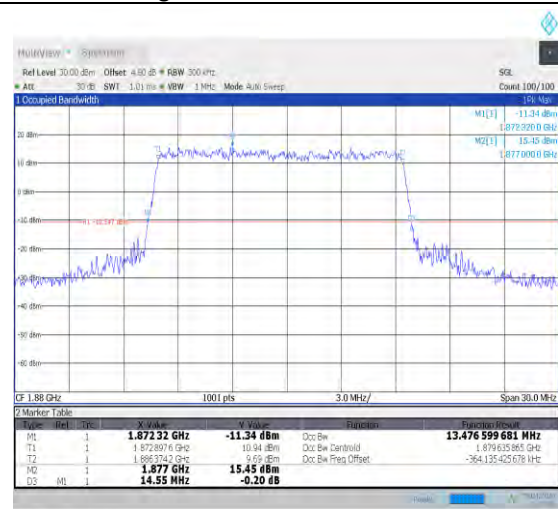
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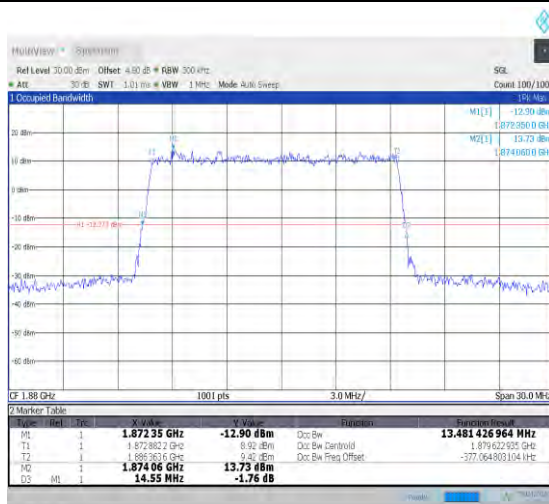
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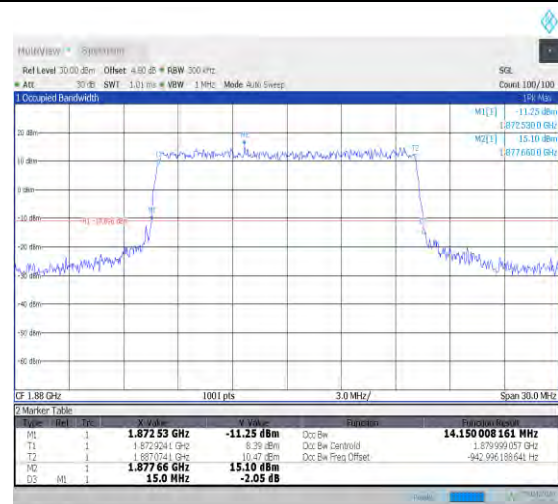
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16:27:15 29.04.2024

1-N2-15-15-M-5-DFT-256QAM-Outer_Full-75@0-Ant
0-13.481-14.550-≤15-PASS



16:27:25 29.04.2024

1-N2-15-15-M-6-CP-QPSK-Outer_Full-79@0-Ant0-1
4.15-15.000-≤15-PASS



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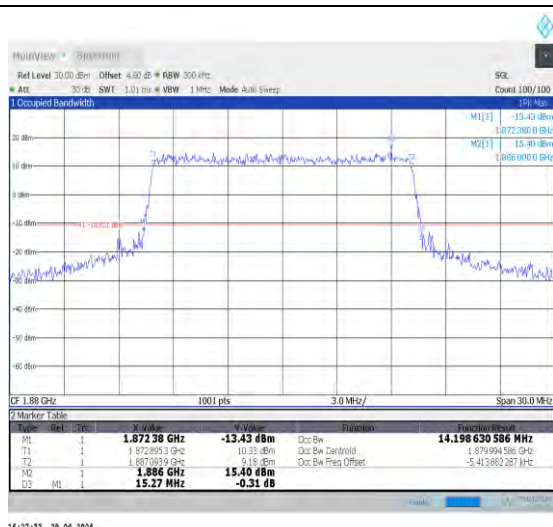
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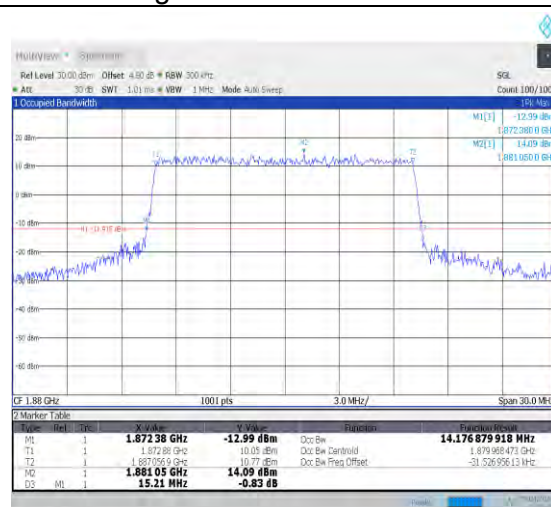
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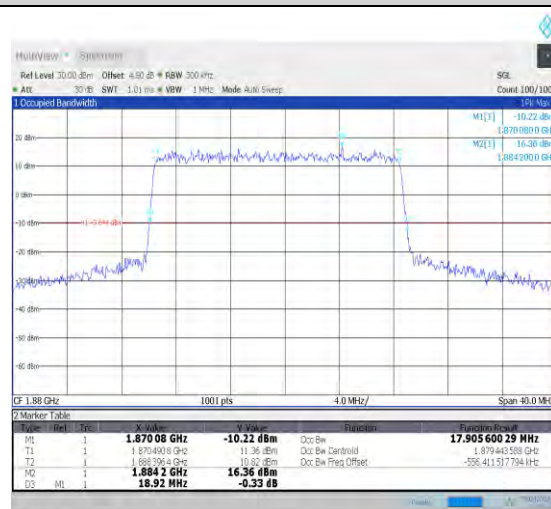
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1-N2-15-15-M-8-CP-64QAM-Outer_Full-79@0-Ant0-
14.177-15.210-≤15-PASS



16:27:50 29.04.2024



16:28:14 29.04.2024

1-N2-15-15-M-9-CP-256QAM-Outer_Full-79@0-Ant0
-14.15-15.000-≤15-PASS

1-N2-15-20-M-1-DFT-QPSK-Outer_Full-100@0-Ant0
-17.906-18.920-≤20-PASS



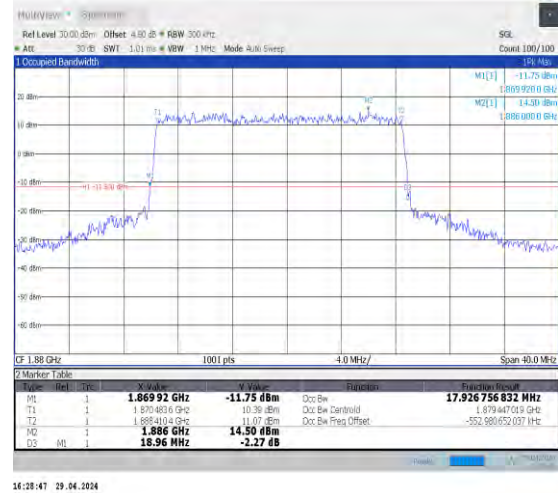
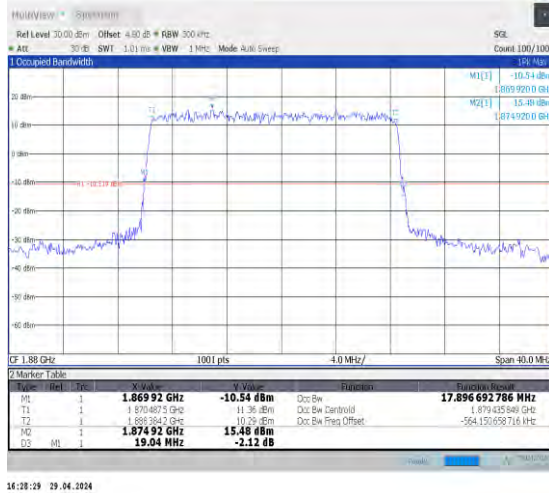
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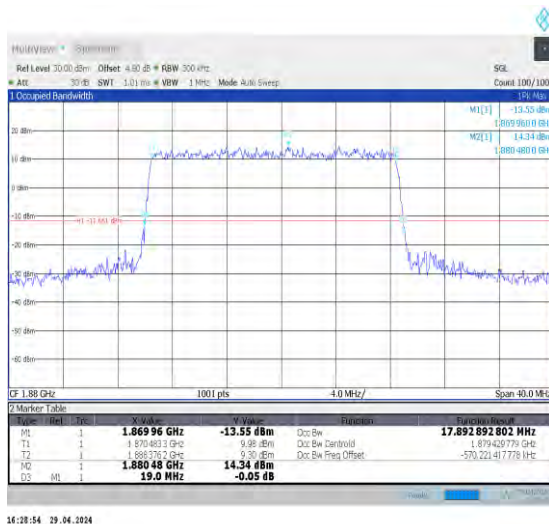
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1-N2-15-20-M-2-DFT-PI2BPSK-Outer_Full-100@0-A
nt0-17.897-19.040-≤20-PASS

1-N2-15-20-M-3-DFT-16QAM-Outer_Full-100@0-Ant
0-17.927-18.960-≤20-PASS



1-N2-15-20-M-4-DFT-64QAM-Outer_Full-100@0-Ant
0-17.893-19.000-≤20-PASS

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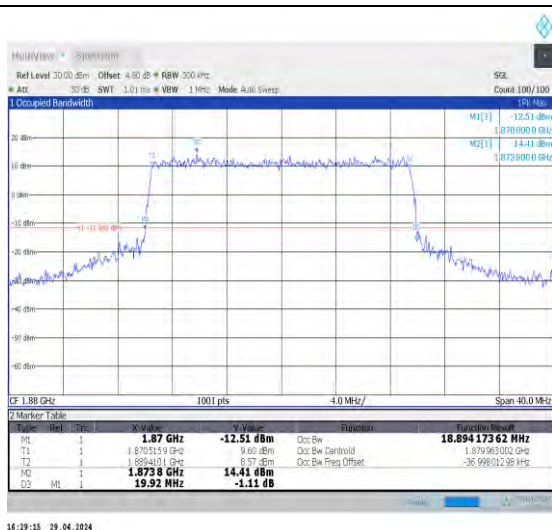
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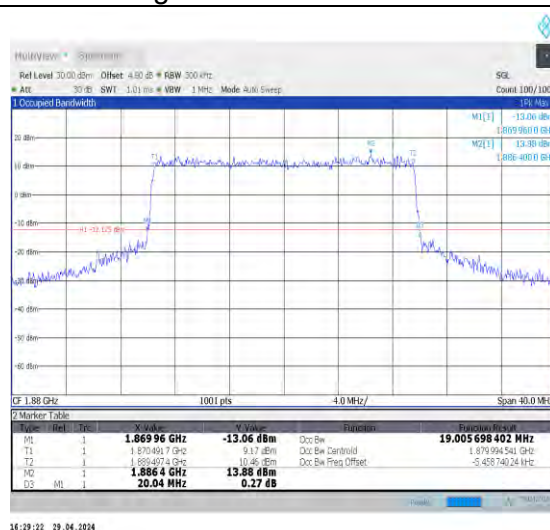
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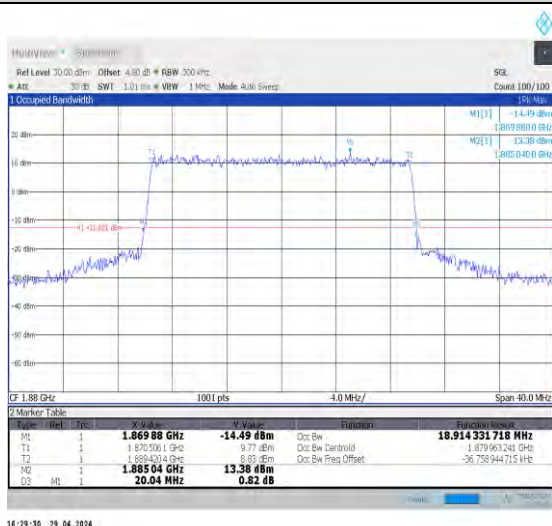
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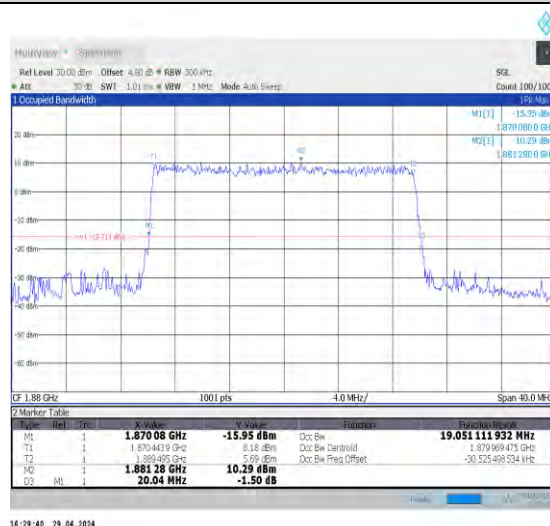
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16:29:30 29.04.2024



16:29:40 29.04.2024

1-N2-15-20-M-8-CP-64QAM-Outer_Full-106@0-Ant0
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1-N2-15-20-M-9-CP-256QAM-Outer_Full-106@0-Ant
t0-19.051-20.040-≤20-PASS



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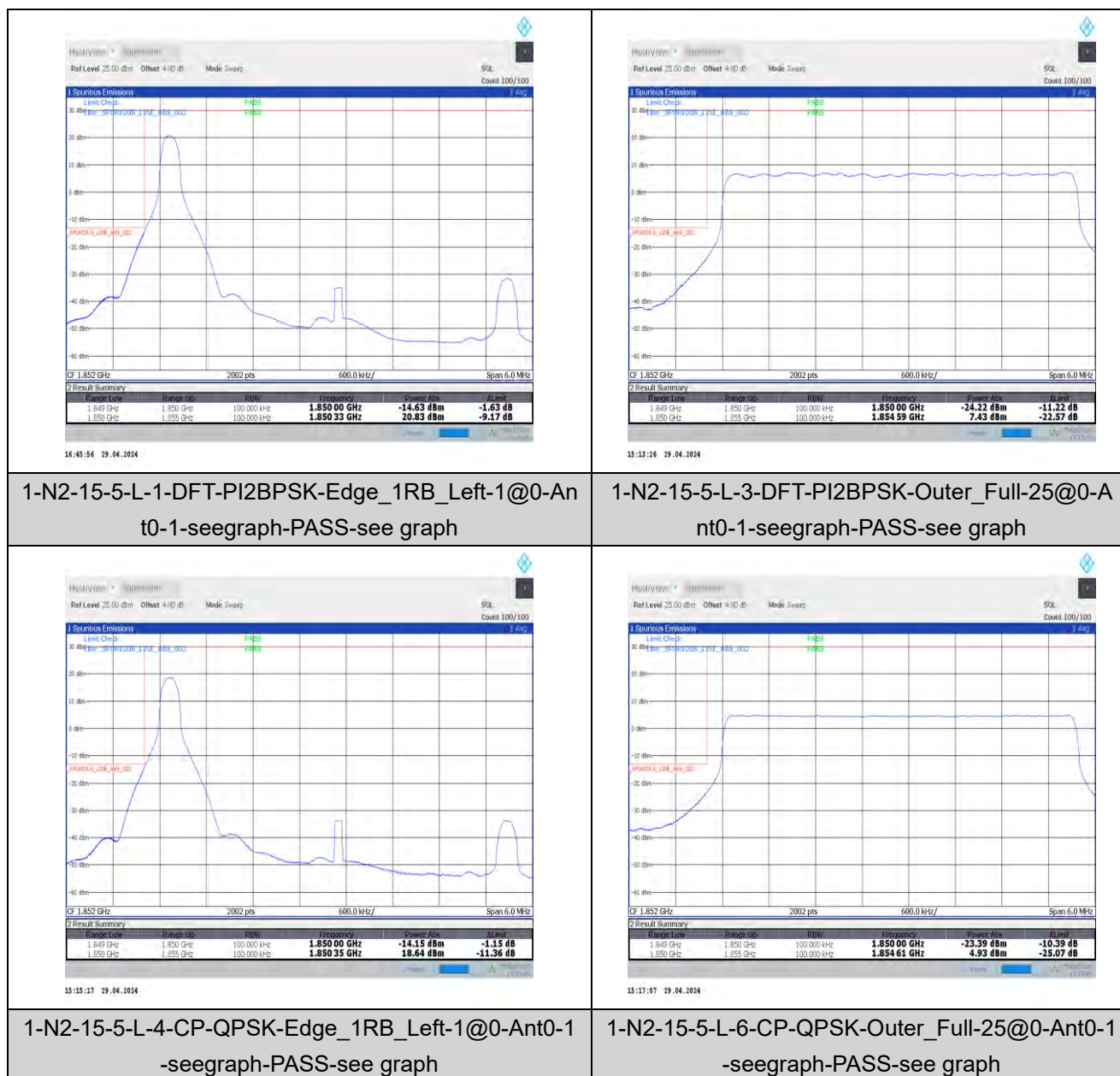
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Band Edge for SA

Test Graphs



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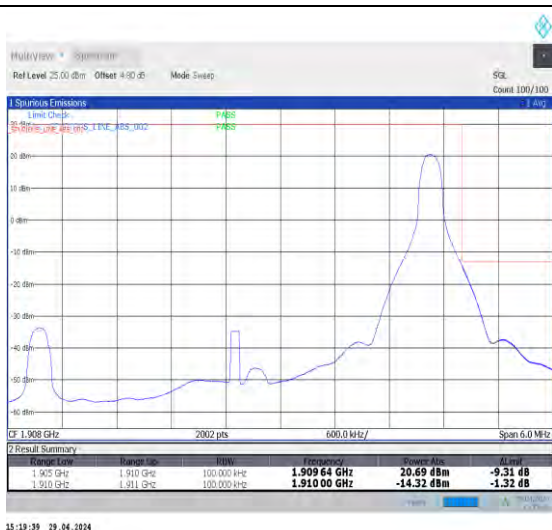
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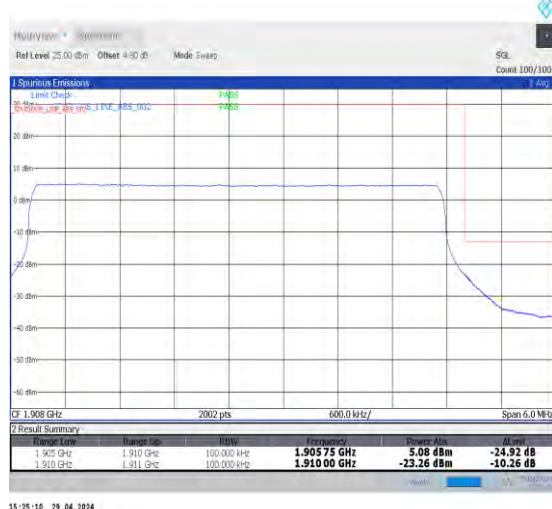
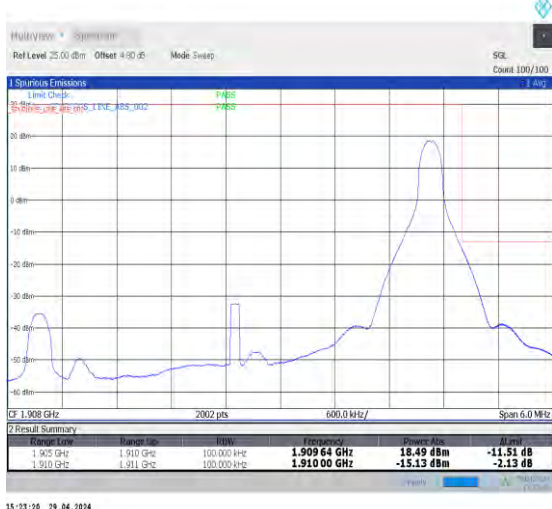
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1-N2-15-5-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@24-Ant0-1-seegraph-PASS-see graph

1-N2-15-5-H-3-DFT-PI2BPSK-Outer_Full-25@0-Ant0-1-seegraph-PASS-see graph



1-N2-15-5-H-5-CP-QPSK-Edge_1RB_Right-1@24-Ant0-1-seegraph-PASS-see graph

1-N2-15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant0-1-seegraph-PASS-see graph



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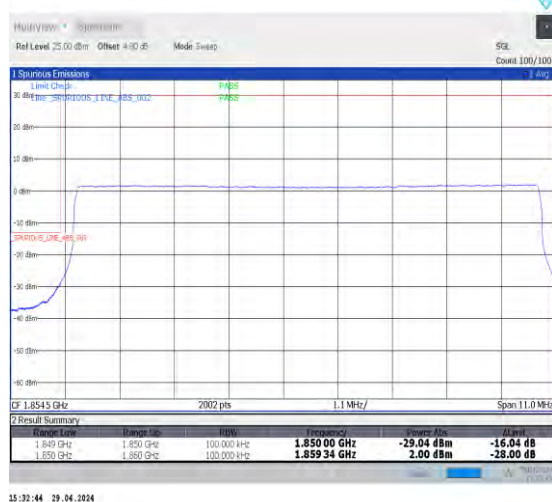
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nt0-1-seegraph-PASS-see graph



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1-N2-15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1-seegraph-PASS-see graph



1-N2-15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant0-1-seegraph-PASS-see graph



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15:34:49 29.04.2024

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1-Ant0-1-seegraph-PASS-see graph



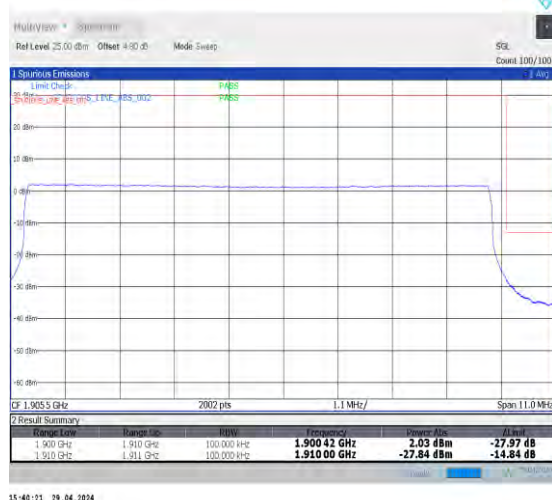
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15:40:11 29.04.2024

1-N2-15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant0
-1-seegraph-PASS-see graph



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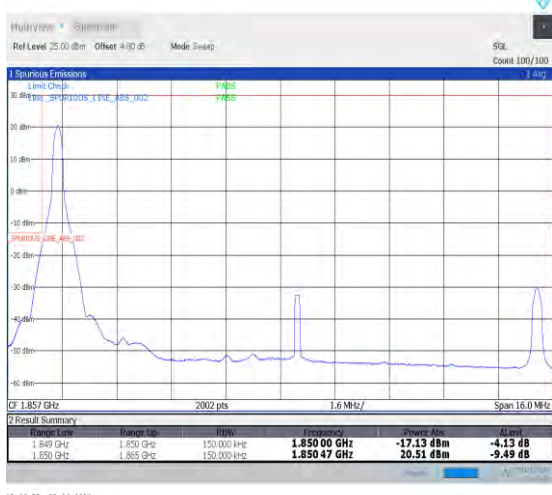
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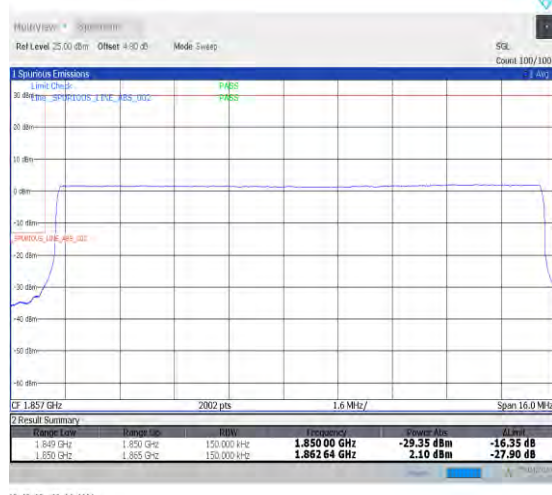
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15:46:58 29.04.2024

1-N2-15-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1-seegraph-PASS-see graph



15:49:28 29.04.2024

1-N2-15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant0-1-seegraph-PASS-see graph



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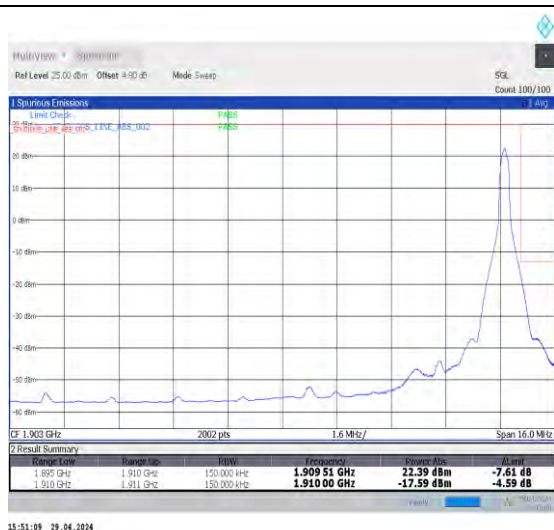
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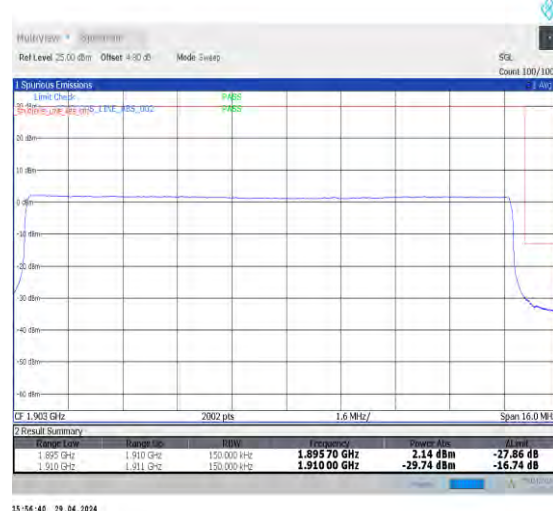
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1-N2-15-15-H-5-CP-QPSK-Edge_1RB_Right-1@78-Ant0-1-seegraph-PASS-see graph



1-N2-15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant0-1-seegraph-PASS-see graph



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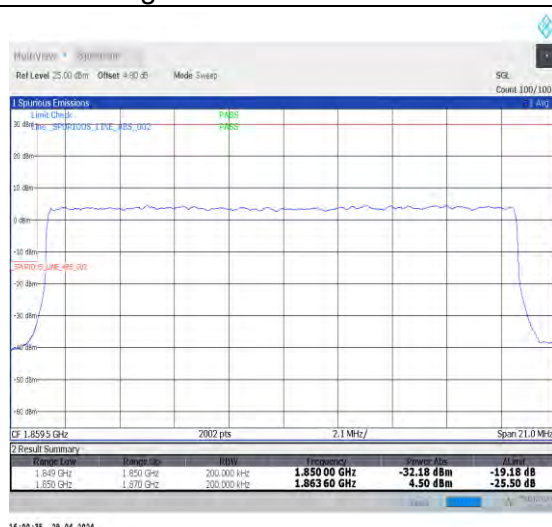
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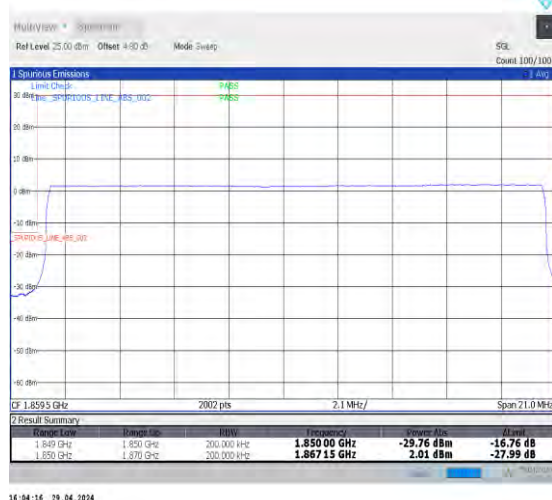
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Ant0-1-seegraph-PASS-see graph



1-N2-15-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1
1-seegraph-PASS-see graph



1-N2-15-20-L-6-CP-QPSK-Outer_Full-106@0-Ant0-1
0-1-seegraph-PASS-see graph



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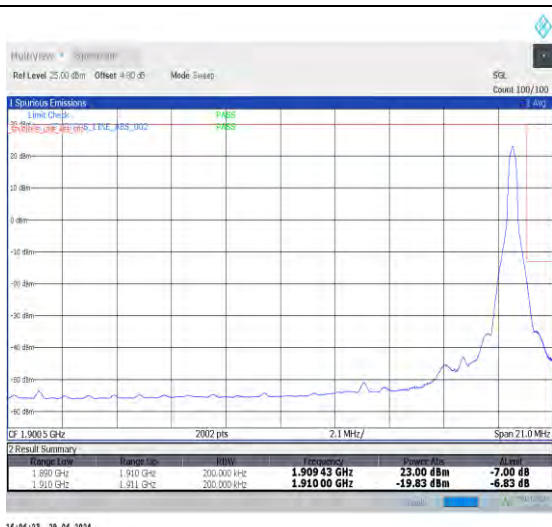
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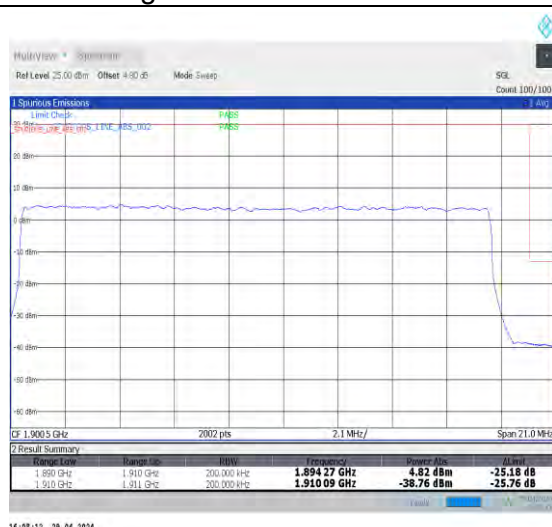
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14:04:23 29.04.2024

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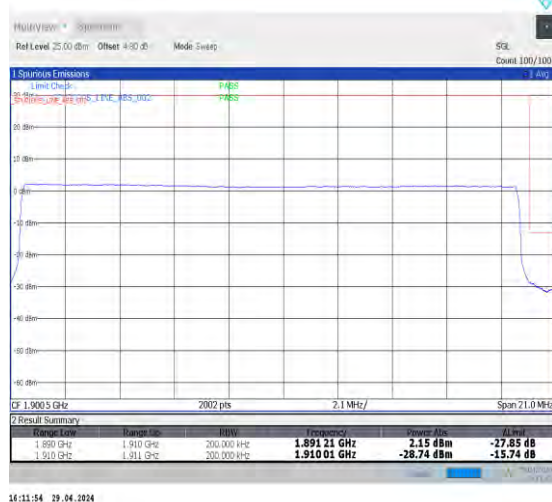
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14:10:04 29.04.2024

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14:11:54 29.04.2024

1-N2-15-20-H-6-CP-QPSK-Outer_Full-106@0-Ant0-1-seegraph-PASS-see graph



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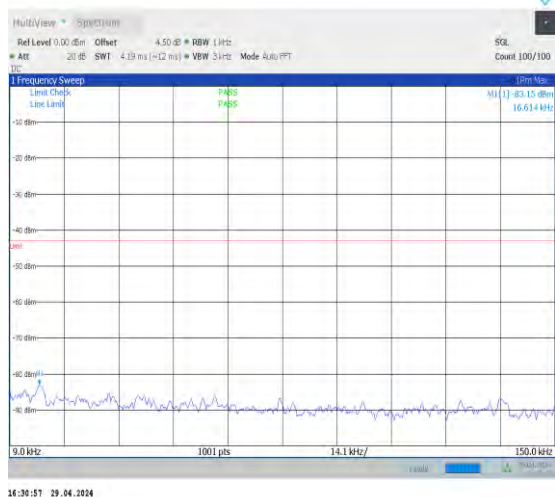
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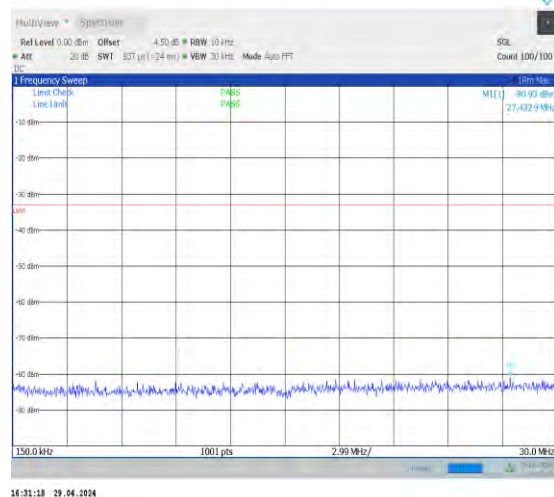
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Conducted Spurious Emission for SA

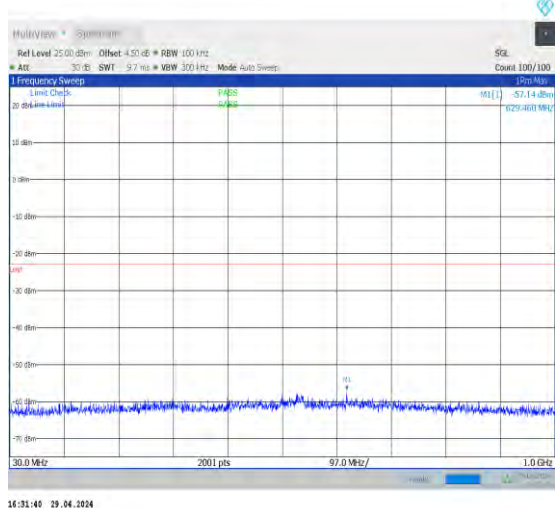
Test Graphs



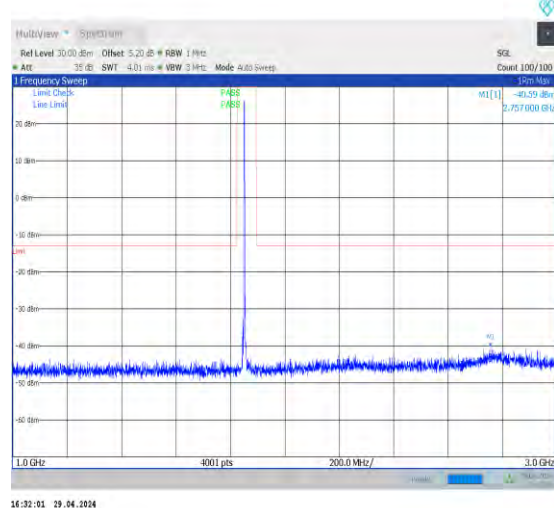
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0.15-30-Ant0-25.82--80.93--33-PASS



1-N2-15-20-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-30-1000-Ant0-531.49--57.14--23-PASS



1-N2-15-20-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-
1000-3000-Ant0-2768.50--40.59--13-PASS



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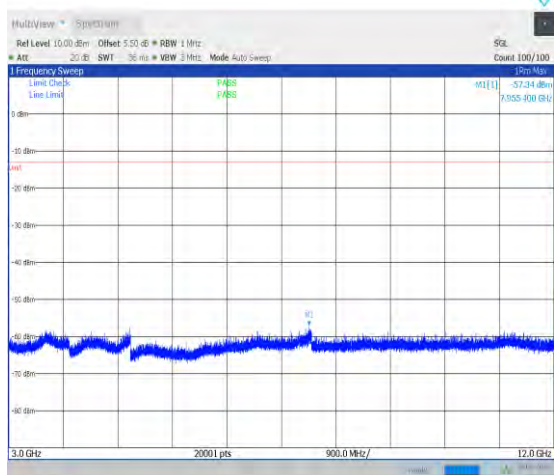
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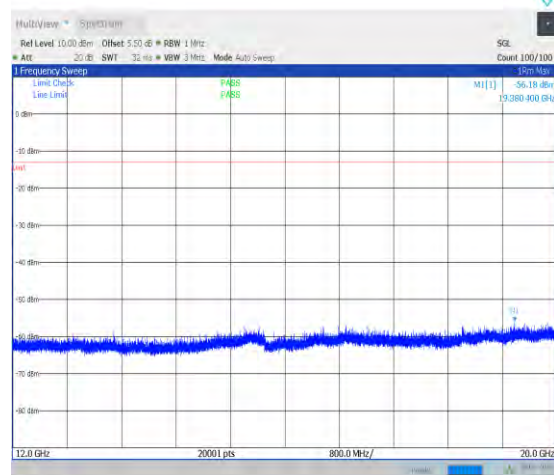
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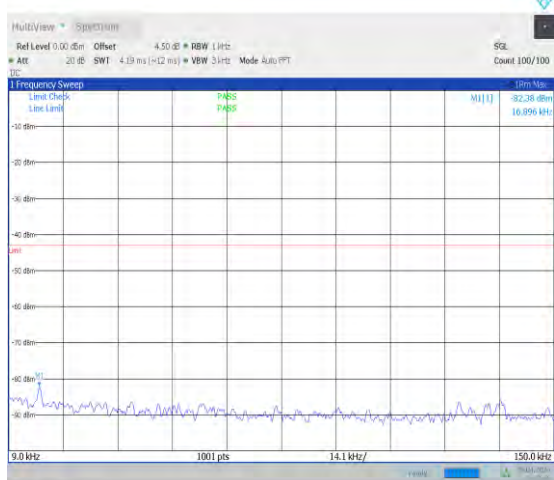
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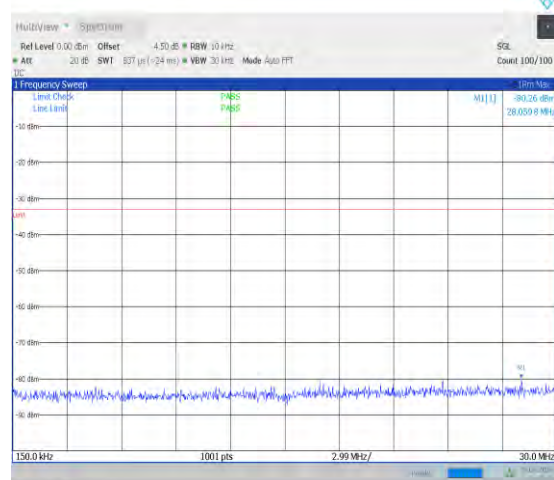
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1-N2-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1
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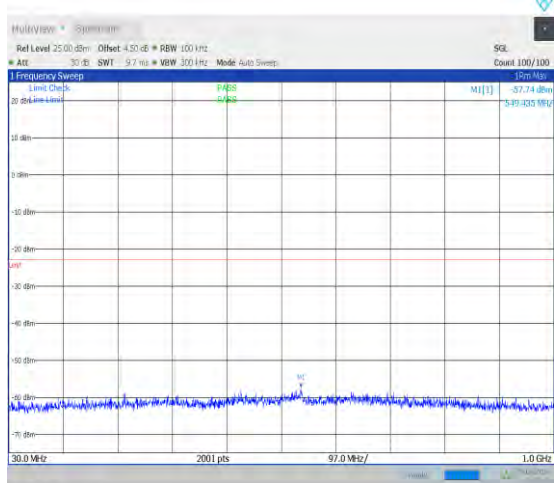
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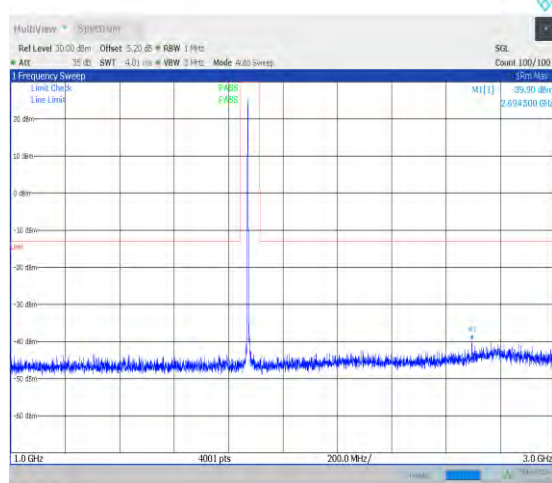
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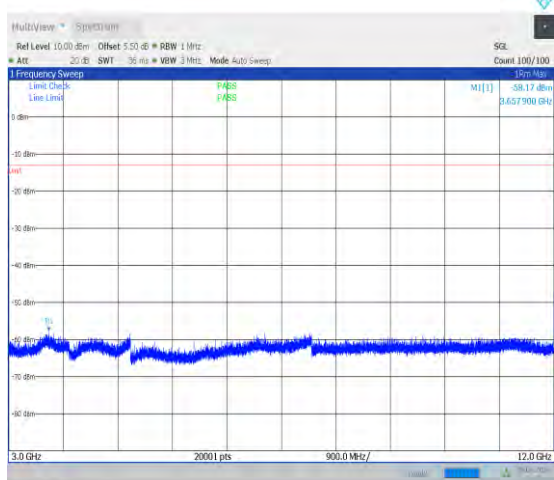
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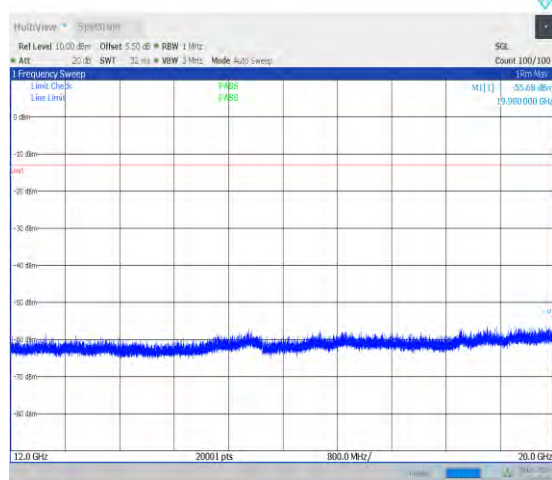
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14:35:15 29.04.2024

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14:35:36 29.04.2024

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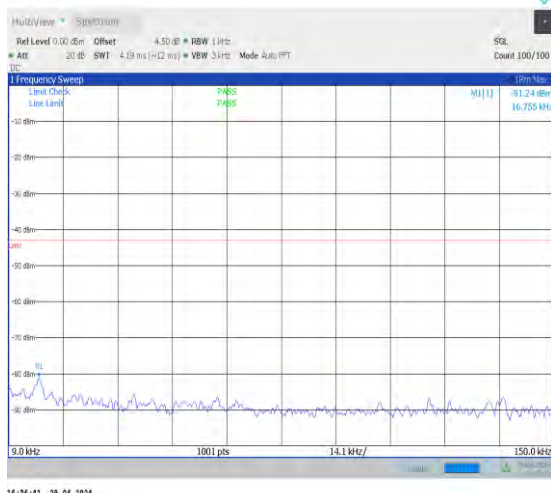
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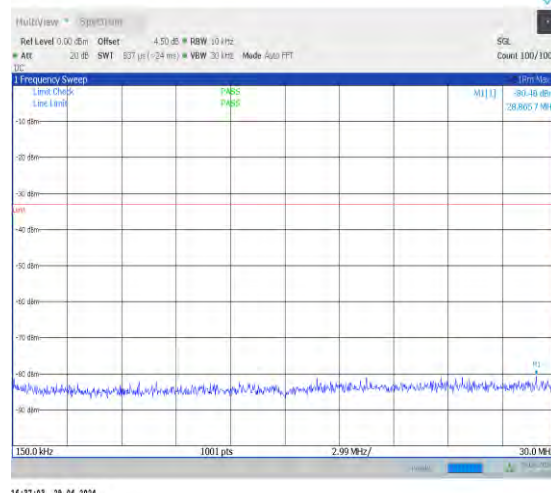
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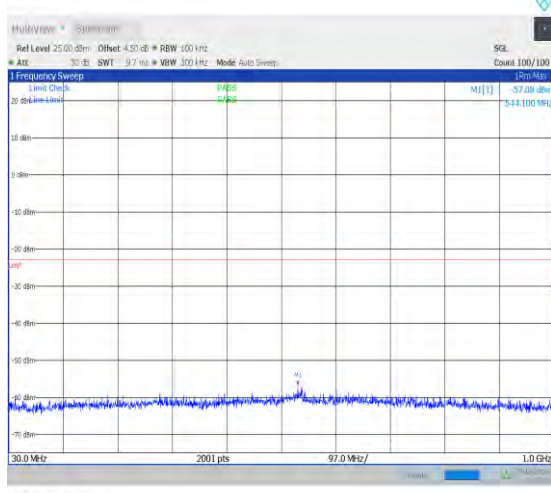
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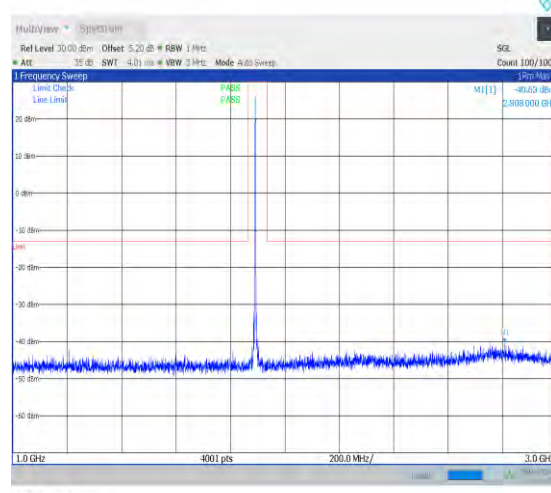
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14:37:24 29.04.2024

1-N2-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-30-1000-Ant0-543.13--57.08--23-PASS



14:37:45 29.04.2024

1-N2-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@
-1000-3000-Ant0-2794.00--40.63--13-PASS



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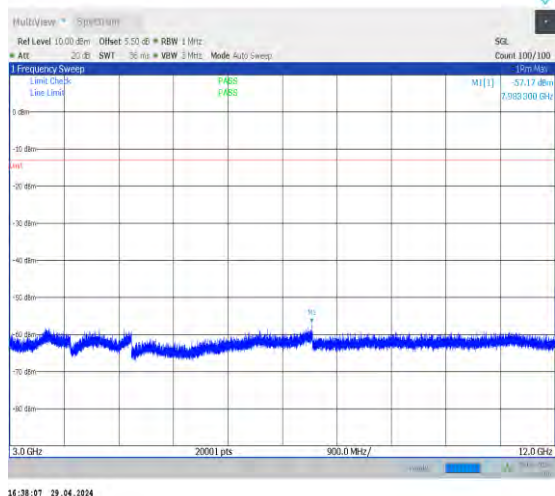
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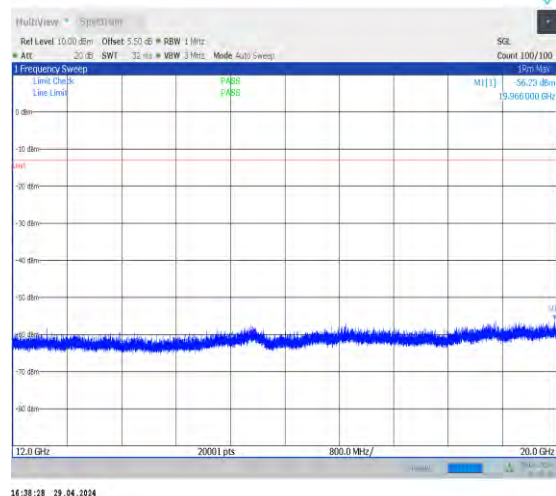
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1-N2-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-3000-12000-Ant0-3586.80--57.17--13-PASS



1-N2-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-12000-20000-Ant0-18940.00--56.23--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA_N2

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3618.7809	53.44	-49.53	30.28	-61.07	-13.00	48.07	Horizontal
2	5153.3577	52.20	-47.13	33.51	-56.68	-13.00	43.68	Horizontal
3	7983.2492	50.06	-43.04	37.43	-50.81	-13.00	37.81	Horizontal
4	11425.1713	47.83	-38.45	39.65	-46.23	-13.00	33.23	Horizontal
5	15000.6	46.42	-34.78	39.90	-43.72	-13.00	30.72	Horizontal
6	17991.7496	48.34	-38.98	42.75	-43.15	-13.00	30.15	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3701.2851	55.30	-50.01	30.31	-59.66	-13.00	46.66	Vertical
2	5154.1077	52.73	-47.12	33.49	-56.16	-13.00	43.16	Vertical
3	8008.7504	49.83	-42.85	37.44	-50.84	-13.00	37.84	Vertical
4	11855.6928	46.99	-38.11	39.68	-46.70	-13.00	33.70	Vertical
5	15034.3517	47.05	-35.22	39.87	-43.56	-13.00	30.56	Vertical
6	17998.4999	48.55	-38.99	42.79	-42.91	-13.00	29.91	Vertical



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Test Band = SA_N2
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3609.7805	53.80	-49.54	30.24	-60.76	-13.00	47.76	Horizontal
2	5078.3539	52.30	-47.47	33.46	-56.97	-13.00	43.97	Horizontal
3	7381.7191	49.94	-43.64	36.84	-52.12	-13.00	39.12	Horizontal
4	9499.825	48.91	-40.58	39.20	-47.73	-13.00	34.73	Horizontal
5	14523.5762	46.89	-35.86	40.58	-43.65	-13.00	30.65	Horizontal
6	17992.4996	48.66	-38.98	42.75	-42.83	-13.00	29.83	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3741.0371	54.58	-49.55	30.46	-59.77	-13.00	46.77	Vertical
2	5243.3622	51.84	-46.82	33.25	-56.99	-13.00	43.99	Vertical
3	7979.499	49.97	-43.09	37.44	-50.94	-13.00	37.94	Vertical
4	11350.9175	48.08	-38.78	39.65	-46.31	-13.00	33.31	Vertical
5	15033.6017	47.07	-35.21	39.87	-43.53	-13.00	30.53	Vertical
6	17997.7499	48.41	-38.99	42.79	-43.05	-13.00	30.05	Vertical



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Test Band = SA_N2

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3741.7871	53.53	-49.54	30.47	-60.80	-13.00	47.80	Horizontal
2	4844.3422	52.09	-47.75	32.75	-58.17	-13.00	45.17	Horizontal
3	6992.4496	50.29	-43.64	36.48	-52.13	-13.00	39.13	Horizontal
4	9514.8257	48.96	-40.76	39.17	-47.89	-13.00	34.89	Horizontal
5	12917.7459	47.03	-37.14	39.61	-45.76	-13.00	32.76	Horizontal
6	17986.4993	48.56	-38.97	42.72	-42.95	-13.00	29.95	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3780.789	55.78	-49.58	30.50	-58.56	-13.00	45.56	Vertical
2	5736.8868	52.03	-46.31	33.80	-55.74	-13.00	42.74	Vertical
3	8544.2772	48.69	-41.47	38.96	-49.08	-13.00	36.08	Vertical
4	9487.8244	48.97	-40.70	39.15	-47.84	-13.00	34.84	Vertical
5	12872.7436	47.26	-37.04	39.45	-45.59	-13.00	32.59	Vertical
6	17994.7497	48.39	-38.98	42.77	-43.08	-13.00	30.08	Vertical



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Test Band = NSA_B12+N2
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3629	54.50	-49.52	30.32	-59.96	-13.00	46.96	Horizontal
2	5146	52.44	-47.20	33.59	-56.43	-13.00	43.43	Horizontal
3	7371	50.46	-43.57	36.86	-51.51	-13.00	38.51	Horizontal
4	9491	49.11	-40.67	39.16	-47.66	-13.00	34.66	Horizontal
5	15026.5	47.54	-35.12	39.87	-42.97	-13.00	29.97	Horizontal
6	17995.5	49.26	-38.98	42.77	-42.21	-13.00	29.21	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3701	55.94	-50.01	30.30	-59.03	-13.00	46.03	Vertical
2	5029.5	52.64	-47.43	33.28	-56.77	-13.00	43.77	Vertical
3	8544	48.96	-41.48	38.96	-48.82	-13.00	35.82	Vertical
4	9485	48.85	-40.73	39.14	-48.00	-13.00	35.00	Vertical
5	14340	47.47	-36.48	40.62	-43.65	-13.00	30.65	Vertical
6	17991.5	48.93	-38.98	42.75	-42.56	-13.00	29.56	Vertical



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Test Band = NSA_B12+N2

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3621.5	54.47	-49.53	30.29	-60.03	-13.00	47.03	Horizontal
2	5150	52.22	-47.18	33.60	-56.62	-13.00	43.62	Horizontal
3	8544.5	49.24	-41.47	38.97	-48.52	-13.00	35.52	Horizontal
4	9480.5	49.55	-40.78	39.12	-47.37	-13.00	34.37	Horizontal
5	15011.5	47.28	-34.92	39.89	-43.01	-13.00	30.01	Horizontal
6	17911	48.89	-38.21	42.27	-42.31	-13.00	29.31	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3384.5	53.58	-50.32	29.77	-62.23	-13.00	49.23	Vertical
2	4617.5	52.75	-47.78	32.07	-58.22	-13.00	45.22	Vertical
3	5890	51.19	-45.65	34.26	-55.46	-13.00	42.46	Vertical
4	8548.5	48.80	-41.39	39.06	-48.79	-13.00	35.79	Vertical
5	12851	47.40	-36.94	39.40	-45.40	-13.00	32.40	Vertical
6	17994	48.82	-38.98	42.76	-42.66	-13.00	29.66	Vertical



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Test Band = NSA_B12+N2
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3622	54.27	-49.53	30.29	-60.23	-13.00	47.23	Horizontal
2	5105	52.62	-47.44	33.51	-56.57	-13.00	43.57	Horizontal
3	7367	50.29	-43.55	36.87	-51.65	-13.00	38.65	Horizontal
4	9488.5	49.34	-40.70	39.15	-47.47	-13.00	34.47	Horizontal
5	14026.5	46.82	-36.38	40.55	-44.27	-13.00	31.27	Horizontal
6	17988.5	49.16	-38.97	42.73	-42.34	-13.00	29.34	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3628.5	54.18	-49.52	30.31	-60.29	-13.00	47.29	Vertical
2	4367	53.30	-48.74	32.00	-58.70	-13.00	45.70	Vertical
3	6963.5	51.10	-44.27	36.43	-52.00	-13.00	39.00	Vertical
4	9461	49.46	-40.97	39.04	-47.73	-13.00	34.73	Vertical
5	15035.5	47.66	-35.24	39.86	-42.98	-13.00	29.98	Vertical
6	17999.5	48.87	-38.99	42.80	-42.58	-13.00	29.58	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
N2	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-6.400000	-0.003404	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-7.000000	-0.003723	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-4.200000	-0.002234	PASS
N2	15	20	CP-QPSK	M	Outer_Full	VH	NT	2.800000	0.001489	PASS
N2	15	20	CP-QPSK	M	Outer_Full	VN	NT	2.600000	0.001383	PASS
N2	15	20	CP-QPSK	M	Outer_Full	VL	NT	1.400000	0.000745	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	-2.300000	-0.001223	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-5.400000	-0.002872	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-5.000000	-0.002660	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	-4.000000	-0.002128	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	-8.700000	-0.004628	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	-6.000000	-0.003191	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	3.700000	0.001968	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-5.100000	-0.002713	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	-5.400000	-0.002872	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	50	2.700000	0.001436	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	-20	-3.600000	-0.001915	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	-10	0.000000	0.000000	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	0	4.000000	0.002128	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	10	2.500000	0.001330	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	20	1.000000	0.000532	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	30	1.200000	0.000638	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	40	2.900000	0.001543	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	-30	2.700000	0.001436	PASS

---End of Attachment---



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