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Appendix B.36

NR Band n12



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
N12	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	23.67	21.32	34.77	PASS
N12	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	23.67	21.32	34.77	PASS
N12	15	5	DFT-PI2BPSK	L	Outer_Full	23.8	21.45	34.77	PASS
N12	15	5	DFT-QPSK	L	Inner_1RB_Left	23.81	21.46	34.77	PASS
N12	15	5	DFT-QPSK	L	Inner_1RB_Right	23.8	21.45	34.77	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	23.83	21.48	34.77	PASS
N12	15	5	DFT-16QAM	L	Inner_1RB_Left	23.79	21.44	34.77	PASS
N12	15	5	DFT-16QAM	L	Inner_1RB_Right	23.78	21.43	34.77	PASS
N12	15	5	DFT-16QAM	L	Outer_Full	23.01	20.66	34.77	PASS
N12	15	5	DFT-64QAM	L	Inner_1RB_Left	22.58	20.23	34.77	PASS
N12	15	5	DFT-64QAM	L	Inner_1RB_Right	22.66	20.31	34.77	PASS
N12	15	5	DFT-64QAM	L	Outer_Full	22.51	20.16	34.77	PASS
N12	15	5	DFT-256QAM	L	Inner_1RB_Left	19.94	17.59	34.77	PASS
N12	15	5	DFT-256QAM	L	Inner_1RB_Right	19.89	17.54	34.77	PASS
N12	15	5	DFT-256QAM	L	Outer_Full	20.37	18.02	34.77	PASS
N12	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	23.74	21.39	34.77	PASS
N12	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	23.8	21.45	34.77	PASS
N12	15	5	DFT-PI2BPSK	M	Outer_Full	23.81	21.46	34.77	PASS
N12	15	5	DFT-QPSK	M	Inner_1RB_Left	23.74	21.39	34.77	PASS
N12	15	5	DFT-QPSK	M	Inner_1RB_Right	23.97	21.62	34.77	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	23.76	21.41	34.77	PASS
N12	15	5	DFT-16QAM	M	Inner_1RB_Left	23.71	21.36	34.77	PASS
N12	15	5	DFT-16QAM	M	Inner_1RB_Right	23.81	21.46	34.77	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	22.89	20.54	34.77	PASS
N12	15	5	DFT-64QAM	M	Inner_1RB_Left	22.57	20.22	34.77	PASS
N12	15	5	DFT-64QAM	M	Inner_1RB_Right	22.55	20.2	34.77	PASS
N12	15	5	DFT-64QAM	M	Outer_Full	22.32	19.97	34.77	PASS
N12	15	5	DFT-256QAM	M	Inner_1RB_Left	19.8	17.45	34.77	PASS
N12	15	5	DFT-256QAM	M	Inner_1RB_Right	19.88	17.53	34.77	PASS
N12	15	5	DFT-256QAM	M	Outer_Full	20.32	17.97	34.77	PASS



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N12	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	23.59	21.24	34.77	PASS
N12	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	23.58	21.23	34.77	PASS
N12	15	5	DFT-PI2BPSK	H	Outer_Full	23.54	21.19	34.77	PASS
N12	15	5	DFT-QPSK	H	Inner_1RB_Left	23.7	21.35	34.77	PASS
N12	15	5	DFT-QPSK	H	Inner_1RB_Right	23.84	21.49	34.77	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	23.63	21.28	34.77	PASS
N12	15	5	DFT-16QAM	H	Inner_1RB_Left	23.73	21.38	34.77	PASS
N12	15	5	DFT-16QAM	H	Inner_1RB_Right	23.57	21.22	34.77	PASS
N12	15	5	DFT-16QAM	H	Outer_Full	22.78	20.43	34.77	PASS
N12	15	5	DFT-64QAM	H	Inner_1RB_Left	22.5	20.15	34.77	PASS
N12	15	5	DFT-64QAM	H	Inner_1RB_Right	22.53	20.18	34.77	PASS
N12	15	5	DFT-64QAM	H	Outer_Full	22.21	19.86	34.77	PASS
N12	15	5	DFT-256QAM	H	Inner_1RB_Left	19.73	17.38	34.77	PASS
N12	15	5	DFT-256QAM	H	Inner_1RB_Right	19.69	17.34	34.77	PASS
N12	15	5	DFT-256QAM	H	Outer_Full	20.05	17.7	34.77	PASS
N12	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	23.71	21.36	34.77	PASS
N12	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	23.64	21.29	34.77	PASS
N12	15	10	DFT-PI2BPSK	L	Outer_Full	23.7	21.35	34.77	PASS
N12	15	10	DFT-QPSK	L	Inner_1RB_Left	23.57	21.22	34.77	PASS
N12	15	10	DFT-QPSK	L	Inner_1RB_Right	23.64	21.29	34.77	PASS
N12	15	10	DFT-QPSK	L	Outer_Full	23.75	21.4	34.77	PASS
N12	15	10	DFT-16QAM	L	Inner_1RB_Left	23.67	21.32	34.77	PASS
N12	15	10	DFT-16QAM	L	Inner_1RB_Right	23.74	21.39	34.77	PASS
N12	15	10	DFT-16QAM	L	Outer_Full	22.8	20.45	34.77	PASS
N12	15	10	DFT-64QAM	L	Inner_1RB_Left	22.55	20.2	34.77	PASS
N12	15	10	DFT-64QAM	L	Inner_1RB_Right	22.51	20.16	34.77	PASS
N12	15	10	DFT-64QAM	L	Outer_Full	22.32	19.97	34.77	PASS
N12	15	10	DFT-256QAM	L	Inner_1RB_Left	19.8	17.45	34.77	PASS
N12	15	10	DFT-256QAM	L	Inner_1RB_Right	19.78	17.43	34.77	PASS
N12	15	10	DFT-256QAM	L	Outer_Full	20.26	17.91	34.77	PASS
N12	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	23.66	21.31	34.77	PASS
N12	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	23.67	21.32	34.77	PASS
N12	15	10	DFT-PI2BPSK	M	Outer_Full	23.83	21.48	34.77	PASS
N12	15	10	DFT-QPSK	M	Inner_1RB_Left	23.72	21.37	34.77	PASS
N12	15	10	DFT-QPSK	M	Inner_1RB_Right	23.68	21.33	34.77	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	23.79	21.44	34.77	PASS



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N12	15	10	DFT-16QAM	M	Inner_1RB_Left	23.72	21.37	34.77	PASS
N12	15	10	DFT-16QAM	M	Inner_1RB_Right	23.67	21.32	34.77	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	22.81	20.46	34.77	PASS
N12	15	10	DFT-64QAM	M	Inner_1RB_Left	22.51	20.16	34.77	PASS
N12	15	10	DFT-64QAM	M	Inner_1RB_Right	22.42	20.07	34.77	PASS
N12	15	10	DFT-64QAM	M	Outer_Full	22.34	19.99	34.77	PASS
N12	15	10	DFT-256QAM	M	Inner_1RB_Left	19.79	17.44	34.77	PASS
N12	15	10	DFT-256QAM	M	Inner_1RB_Right	19.75	17.4	34.77	PASS
N12	15	10	DFT-256QAM	M	Outer_Full	20.33	17.98	34.77	PASS
N12	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	23.69	21.34	34.77	PASS
N12	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	23.65	21.3	34.77	PASS
N12	15	10	DFT-PI2BPSK	H	Outer_Full	23.75	21.4	34.77	PASS
N12	15	10	DFT-QPSK	H	Inner_1RB_Left	23.72	21.37	34.77	PASS
N12	15	10	DFT-QPSK	H	Inner_1RB_Right	23.67	21.32	34.77	PASS
N12	15	10	DFT-QPSK	H	Outer_Full	23.73	21.38	34.77	PASS
N12	15	10	DFT-16QAM	H	Inner_1RB_Left	23.81	21.46	34.77	PASS
N12	15	10	DFT-16QAM	H	Inner_1RB_Right	23.55	21.2	34.77	PASS
N12	15	10	DFT-16QAM	H	Outer_Full	22.75	20.4	34.77	PASS
N12	15	10	DFT-64QAM	H	Inner_1RB_Left	22.59	20.24	34.77	PASS
N12	15	10	DFT-64QAM	H	Inner_1RB_Right	22.41	20.06	34.77	PASS
N12	15	10	DFT-64QAM	H	Outer_Full	22.33	19.98	34.77	PASS
N12	15	10	DFT-256QAM	H	Inner_1RB_Left	19.8	17.45	34.77	PASS
N12	15	10	DFT-256QAM	H	Inner_1RB_Right	19.78	17.43	34.77	PASS
N12	15	10	DFT-256QAM	H	Outer_Full	20.22	17.87	34.77	PASS
N12	15	15	DFT-PI2BPSK	L	Inner_1RB_Left	23.8	21.45	34.77	PASS
N12	15	15	DFT-PI2BPSK	L	Inner_1RB_Right	23.68	21.33	34.77	PASS
N12	15	15	DFT-PI2BPSK	L	Outer_Full	23.9	21.55	34.77	PASS
N12	15	15	DFT-QPSK	L	Inner_1RB_Left	23.76	21.41	34.77	PASS
N12	15	15	DFT-QPSK	L	Inner_1RB_Right	23.7	21.35	34.77	PASS
N12	15	15	DFT-QPSK	L	Outer_Full	23.93	21.58	34.77	PASS
N12	15	15	DFT-16QAM	L	Inner_1RB_Left	23.85	21.5	34.77	PASS
N12	15	15	DFT-16QAM	L	Inner_1RB_Right	23.68	21.33	34.77	PASS
N12	15	15	DFT-16QAM	L	Outer_Full	23.05	20.7	34.77	PASS
N12	15	15	DFT-64QAM	L	Inner_1RB_Left	22.79	20.44	34.77	PASS
N12	15	15	DFT-64QAM	L	Inner_1RB_Right	22.46	20.11	34.77	PASS
N12	15	15	DFT-64QAM	L	Outer_Full	22.54	20.19	34.77	PASS



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N12	15	15	DFT-256QAM	L	Inner_1RB_Left	20.03	17.68	34.77	PASS
N12	15	15	DFT-256QAM	L	Inner_1RB_Right	19.76	17.41	34.77	PASS
N12	15	15	DFT-256QAM	L	Outer_Full	20.42	18.07	34.77	PASS
N12	15	15	DFT-PI2BPSK	M	Inner_1RB_Left	23.9	21.55	34.77	PASS
N12	15	15	DFT-PI2BPSK	M	Inner_1RB_Right	23.62	21.27	34.77	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	23.89	21.54	34.77	PASS
N12	15	15	DFT-QPSK	M	Inner_1RB_Left	23.8	21.45	34.77	PASS
N12	15	15	DFT-QPSK	M	Inner_1RB_Right	23.71	21.36	34.77	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	23.92	21.57	34.77	PASS
N12	15	15	DFT-16QAM	M	Inner_1RB_Left	23.79	21.44	34.77	PASS
N12	15	15	DFT-16QAM	M	Inner_1RB_Right	23.67	21.32	34.77	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	23.03	20.68	34.77	PASS
N12	15	15	DFT-64QAM	M	Inner_1RB_Left	22.65	20.3	34.77	PASS
N12	15	15	DFT-64QAM	M	Inner_1RB_Right	22.45	20.1	34.77	PASS
N12	15	15	DFT-64QAM	M	Outer_Full	22.54	20.19	34.77	PASS
N12	15	15	DFT-256QAM	M	Inner_1RB_Left	20.02	17.67	34.77	PASS
N12	15	15	DFT-256QAM	M	Inner_1RB_Right	19.73	17.38	34.77	PASS
N12	15	15	DFT-256QAM	M	Outer_Full	20.45	18.1	34.77	PASS
N12	15	15	DFT-PI2BPSK	H	Inner_1RB_Left	23.74	21.39	34.77	PASS
N12	15	15	DFT-PI2BPSK	H	Inner_1RB_Right	23.61	21.26	34.77	PASS
N12	15	15	DFT-PI2BPSK	H	Outer_Full	23.88	21.53	34.77	PASS
N12	15	15	DFT-QPSK	H	Inner_1RB_Left	23.78	21.43	34.77	PASS
N12	15	15	DFT-QPSK	H	Inner_1RB_Right	23.66	21.31	34.77	PASS
N12	15	15	DFT-QPSK	H	Outer_Full	23.93	21.58	34.77	PASS
N12	15	15	DFT-16QAM	H	Inner_1RB_Left	23.85	21.5	34.77	PASS
N12	15	15	DFT-16QAM	H	Inner_1RB_Right	23.58	21.23	34.77	PASS
N12	15	15	DFT-16QAM	H	Outer_Full	23.05	20.7	34.77	PASS
N12	15	15	DFT-64QAM	H	Inner_1RB_Left	22.67	20.32	34.77	PASS
N12	15	15	DFT-64QAM	H	Inner_1RB_Right	22.37	20.02	34.77	PASS
N12	15	15	DFT-64QAM	H	Outer_Full	22.51	20.16	34.77	PASS
N12	15	15	DFT-256QAM	H	Inner_1RB_Left	20.02	17.67	34.77	PASS
N12	15	15	DFT-256QAM	H	Inner_1RB_Right	19.73	17.38	34.77	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
N12	15	5	DFT-256QAM	L	Outer_Full	6.12	13	PASS
N12	15	5	CP-256QAM	L	Outer_Full	6.12	13	PASS
N12	15	5	DFT-256QAM	M	Outer_Full	6.11	13	PASS
N12	15	5	CP-256QAM	M	Outer_Full	6.10	13	PASS
N12	15	5	DFT-256QAM	H	Outer_Full	6.17	13	PASS
N12	15	5	CP-256QAM	H	Outer_Full	6.01	13	PASS
N12	15	10	DFT-256QAM	L	Outer_Full	6.18	13	PASS
N12	15	10	CP-256QAM	L	Outer_Full	8.25	13	PASS
N12	15	10	DFT-256QAM	M	Outer_Full	6.16	13	PASS
N12	15	10	CP-256QAM	M	Outer_Full	8.20	13	PASS
N12	15	10	DFT-256QAM	H	Outer_Full	6.12	13	PASS
N12	15	10	CP-256QAM	H	Outer_Full	8.32	13	PASS
N12	15	15	DFT-256QAM	L	Outer_Full	6.19	13	PASS
N12	15	15	CP-256QAM	L	Outer_Full	8.25	13	PASS
N12	15	15	DFT-256QAM	M	Outer_Full	6.20	13	PASS
N12	15	15	CP-256QAM	M	Outer_Full	8.24	13	PASS
N12	15	15	DFT-256QAM	H	Outer_Full	6.69	13	PASS
N12	15	15	CP-256QAM	H	Outer_Full	8.76	13	PASS



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Test Graphs



1-N12-PC3-15-5-L-1-DFT-256QAM-Outer_Full-25@0
-18.69-18.69-19~27.5-PASS



1-N12-PC3-15-5-L-2-CP-256QAM-Outer_Full-25@0
-18.71-18.71-19~27.5-PASS



1-N12-PC3-15-5-M-1-DFT-256QAM-Outer_Full-25@0
0-18.69-18.69-19~27.5-PASS



1-N12-PC3-15-5-M-2-CP-256QAM-Outer_Full-25@0
0-18.71-18.71-19~27.5-PASS



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1-N12-PC3-15-5-H-1-DFT-256QAM-Outer_Full-25@
0-18.82-18.82-19~27.5-PASS



1-N12-PC3-15-5-H-2-CP-256QAM-Outer_Full-25@0
-18.80-18.80-19~27.5-PASS



1-N12-PC3-15-10-L-1-DFT-256QAM-Outer_Full-50@
0-18.72-18.72-19~27.5-PASS



1-N12-PC3-15-10-L-2-CP-256QAM-Outer_Full-52@
0-16.68-16.68-19~27.5-PASS



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1-N12-PC3-15-10-M-1-DFT-256QAM-Outer_Full-50
@0-18.70-18.70-19~27.5-PASS



1-N12-PC3-15-10-M-2-CP-256QAM-Outer_Full-52
@0-16.73-16.73-19~27.5-PASS



1-N12-PC3-15-10-H-1-DFT-256QAM-Outer_Full-50
@0-18.83-18.83-19~27.5-PASS



1-N12-PC3-15-10-H-2-CP-256QAM-Outer_Full-52@
0-16.89-16.89-19~27.5-PASS



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1-N12-PC3-15-15-L-1-DFT-256QAM-Outter_Full-75@
0-18.71-18.71-19~27.5-PASS



1-N12-PC3-15-15-L-2-CP-256QAM-Outter_Full-79@
0-16.83-16.83-19~27.5-PASS



1-N12-PC3-15-15-M-1-DFT-256QAM-Outter_Full-75
@0-18.75-18.75-19~27.5-PASS



1-N12-PC3-15-15-M-2-CP-256QAM-Outter_Full-79
@0-16.78-16.78-19~27.5-PASS



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1-N12-PC3-15-15-H-1-DFT-256QAM-Outer_Full-75
@0-19.09-19.09-19~27.5-PASS



1-N12-PC3-15-15-H-2-CP-256QAM-Outer_Full-79@
0-16.99-16.99-19~27.5-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
N12	15	5	DFT-QPSK	M	Outer_Full	4.484	4.920	PASS
N12	15	5	DFT-PI2BPSK	M	Outer_Full	4.525	5.270	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	4.549	5.230	PASS
N12	15	5	DFT-64QAM	M	Outer_Full	4.497	5.060	PASS
N12	15	5	DFT-256QAM	M	Outer_Full	4.498	5.190	PASS
N12	15	5	CP-QPSK	M	Outer_Full	4.523	5.230	PASS
N12	15	5	CP-16QAM	M	Outer_Full	4.498	5.060	PASS
N12	15	5	CP-64QAM	M	Outer_Full	4.48	5.060	PASS
N12	15	5	CP-256QAM	M	Outer_Full	4.518	5.200	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	8.912	9.620	PASS
N12	15	10	DFT-PI2BPSK	M	Outer_Full	8.896	9.360	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	8.937	9.580	PASS
N12	15	10	DFT-64QAM	M	Outer_Full	8.937	9.480	PASS
N12	15	10	DFT-256QAM	M	Outer_Full	8.908	9.540	PASS
N12	15	10	CP-QPSK	M	Outer_Full	9.27	9.940	PASS
N12	15	10	CP-16QAM	M	Outer_Full	9.26	10.000	PASS
N12	15	10	CP-64QAM	M	Outer_Full	9.274	9.960	PASS
N12	15	10	CP-256QAM	M	Outer_Full	9.279	10.060	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	13.451	14.580	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	13.47	14.520	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	13.532	14.730	PASS
N12	15	15	DFT-64QAM	M	Outer_Full	13.436	14.400	PASS
N12	15	15	DFT-256QAM	M	Outer_Full	13.488	14.400	PASS
N12	15	15	CP-QPSK	M	Outer_Full	14.158	15.120	PASS
N12	15	15	CP-16QAM	M	Outer_Full	14.147	15.150	PASS
N12	15	15	CP-64QAM	M	Outer_Full	14.175	15.240	PASS
N12	15	15	CP-256QAM	M	Outer_Full	14.121	15.150	PASS



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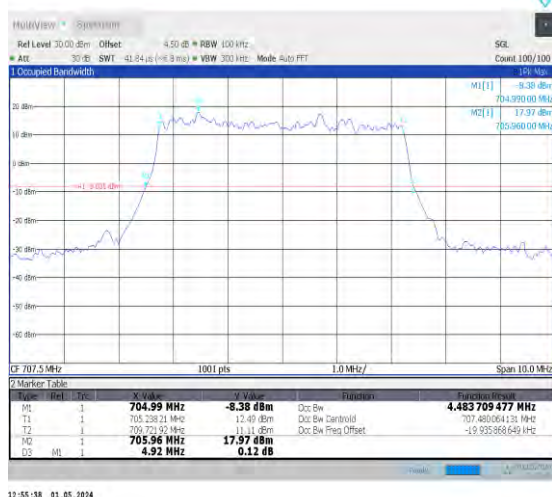
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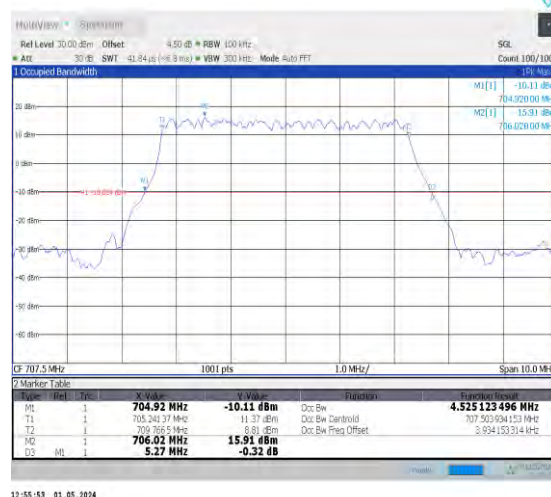
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Test Graphs



1-N12-PC3-15-5-M-1-DFT-QPSK-Outer_Full-25@0-Ant0-4.484-4.920-≤5-PASS



1-N12-PC3-15-5-M-2-DFT-P12BPSK-Outer_Full-25@0-Ant0-4.525-5.270-≤5-PASS



1-N12-PC3-15-5-M-3-DFT-16QAM-Outer_Full-25@0-Ant0-4.549-5.230-≤5-PASS



1-N12-PC3-15-5-M-4-DFT-64QAM-Outer_Full-25@0-Ant0-4.497-5.060-≤5-PASS



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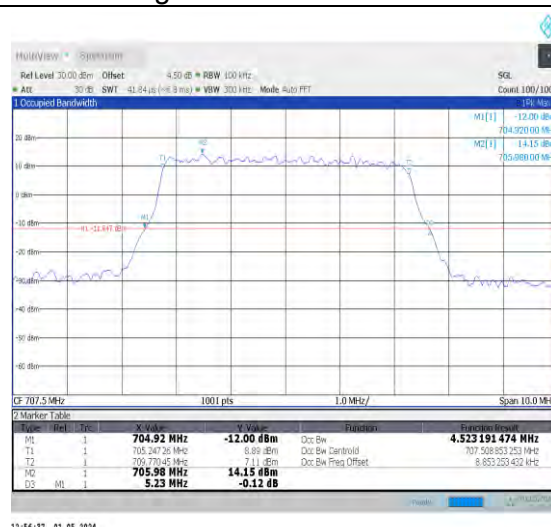
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11:56:16 01.05.2024

1-N12-PC3-15-5-M-5-DFT-256QAM-Outer_Full-25@
0-Ant0-4.498-5.190-≤5-PASS



11:56:37 01.05.2024

1-N12-PC3-15-5-M-6-CP-QPSK-Outer_Full-25@0-A
nt0-4.523-5.230-≤5-PASS



11:56:44 01.05.2024

1-N12-PC3-15-5-M-7-CP-16QAM-Outer_Full-25@0-
Ant0-4.498-5.060-≤5-PASS



11:56:52 01.05.2024

1-N12-PC3-15-5-M-8-CP-64QAM-Outer_Full-25@0-
Ant0-4.48-5.060-≤5-PASS



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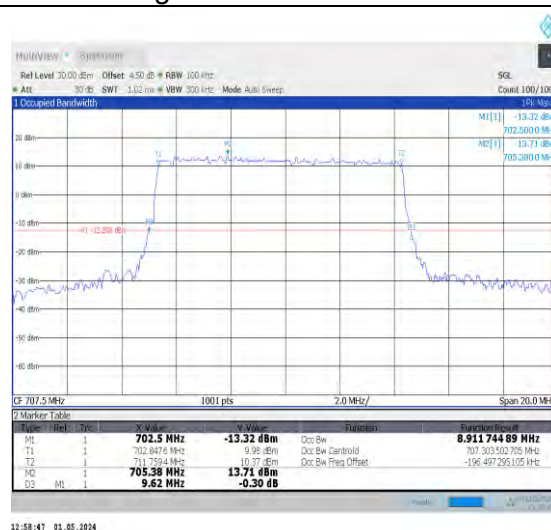
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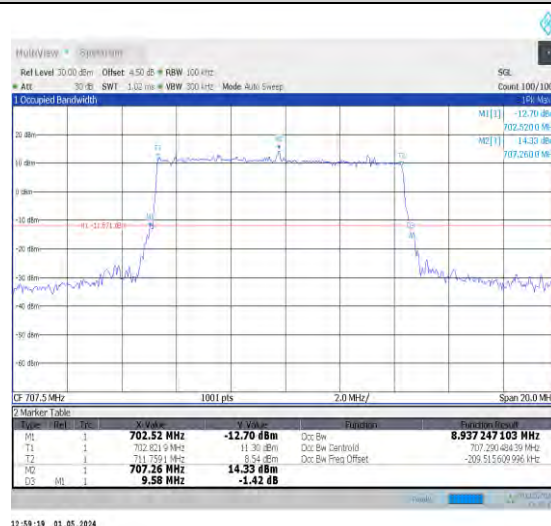
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1-N12-PC3-15-5-M-9-CP-256QAM-Outer_Full-25@0
-Ant0-4.518-5.200-≤5-PASS

1-N12-PC3-15-10-M-1-DFT-QPSK-Outer_Full-50@0
-Ant0-8.912-9.620-≤10-PASS



1-N12-PC3-15-10-M-2-DFT-PI2BPSK-Outer_Full-50@0-Ant0-8.896-9.360-≤10-PASS

1-N12-PC3-15-10-M-3-DFT-16QAM-Outer_Full-50@0-Ant0-8.937-9.580-≤10-PASS



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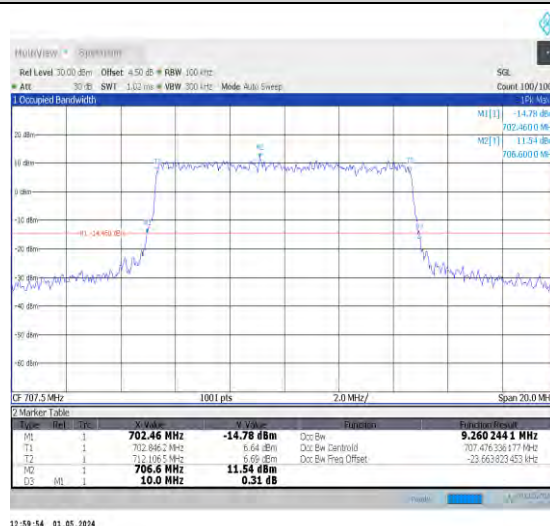
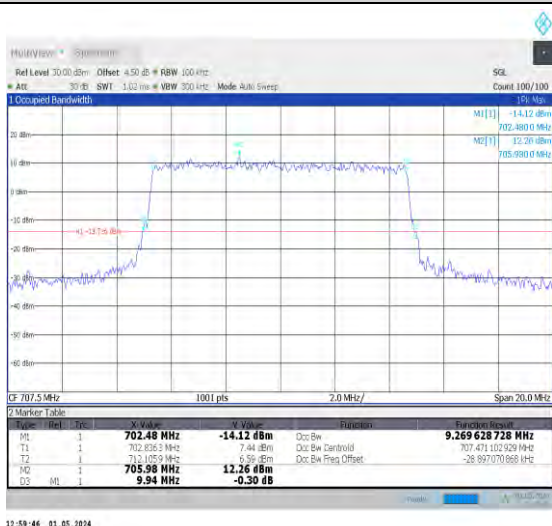
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1-N12-PC3-15-10-M-4-DFT-64QAM-Outer_Full-50@
0-Ant0-8.937-9.480-≤10-PASS

1-N12-PC3-15-10-M-5-DFT-256QAM-Outer_Full-50
@0-Ant0-8.908-9.540-≤10-PASS



1-N12-PC3-15-10-M-6-CP-QPSK-Outer_Full-52@0-
Ant0-9.27-9.940-≤10-PASS

1-N12-PC3-15-10-M-7-CP-16QAM-Outer_Full-52@0-
-Ant0-9.26-10.000-≤10-PASS



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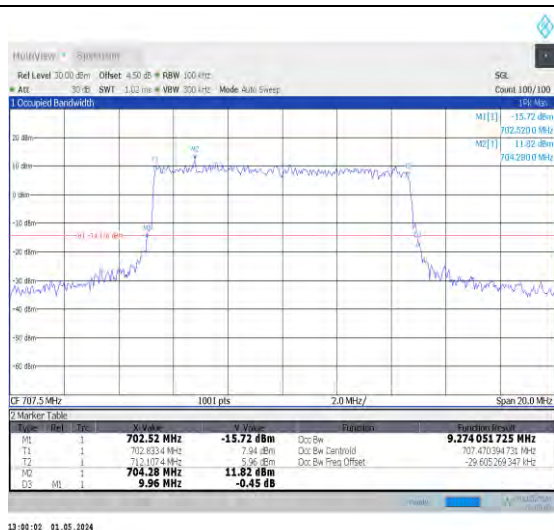
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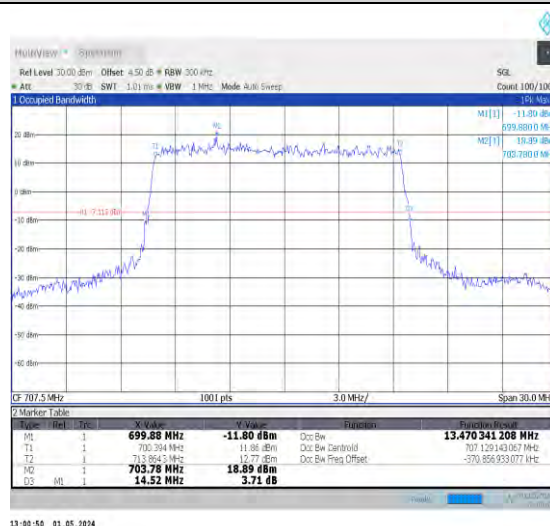
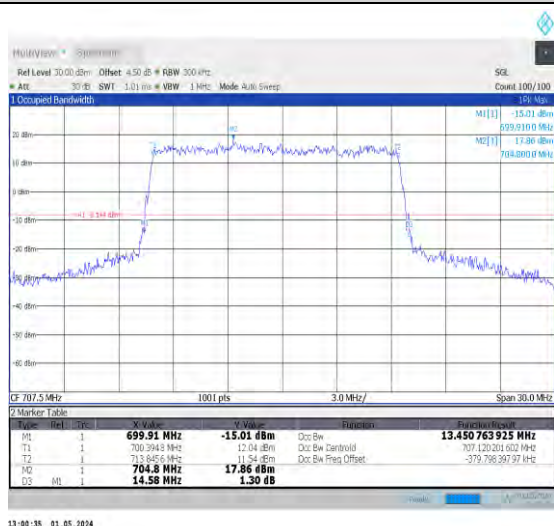
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1-N12-PC3-15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant0-9.274-9.960-≤10-PASS

1-N12-PC3-15-10-M-9-CP-256QAM-Outer_Full-52@0-Ant0-9.279-10.060-≤10-PASS



1-N12-PC3-15-15-M-1-DFT-QPSK-Outer_Full-75@0-Ant0-13.451-14.580-≤15-PASS

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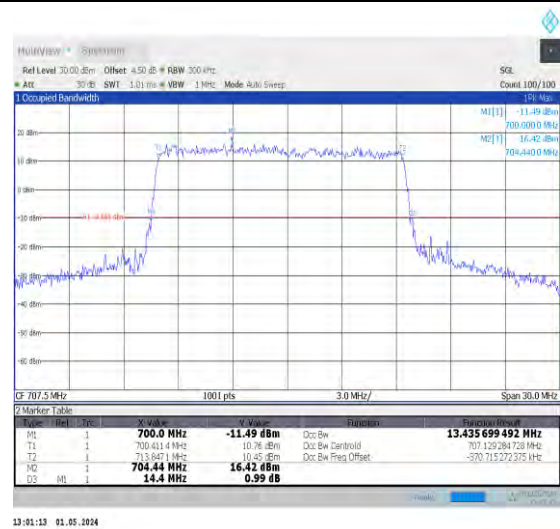


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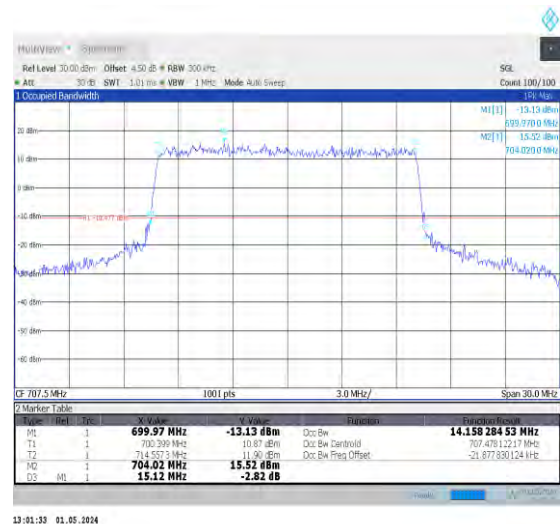
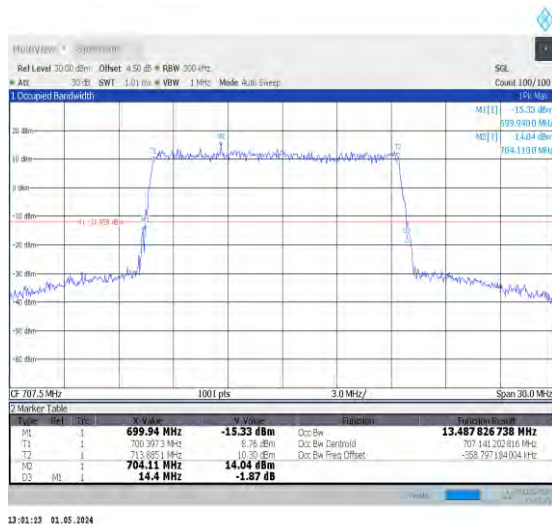
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1-N12-PC3-15-15-M-3-DFT-16QAM-Outer_Full-75@
0-Ant0-13.532-14.730-≤15-PASS

1-N12-PC3-15-15-M-4-DFT-64QAM-Outer_Full-75@
0-Ant0-13.436-14.400-≤15-PASS



1-N12-PC3-15-15-M-5-DFT-256QAM-Outer_Full-75
@0-Ant0-13.488-14.400-≤15-PASS

1-N12-PC3-15-15-M-6-CP-QPSK-Outer_Full-79@0-
Ant0-14.158-15.120-≤15-PASS



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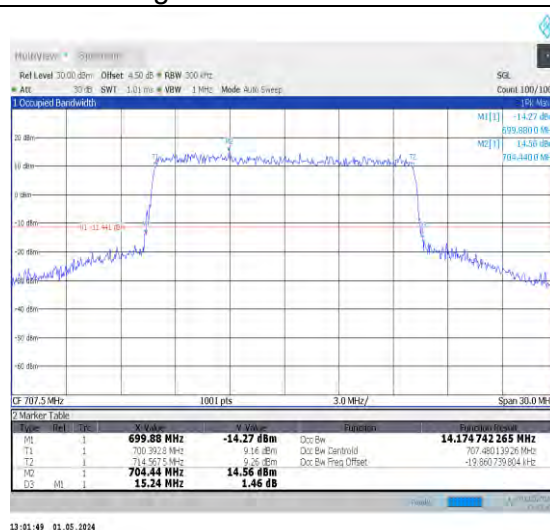
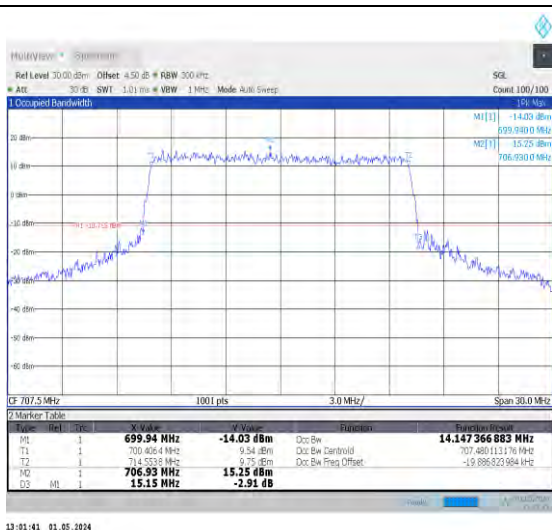
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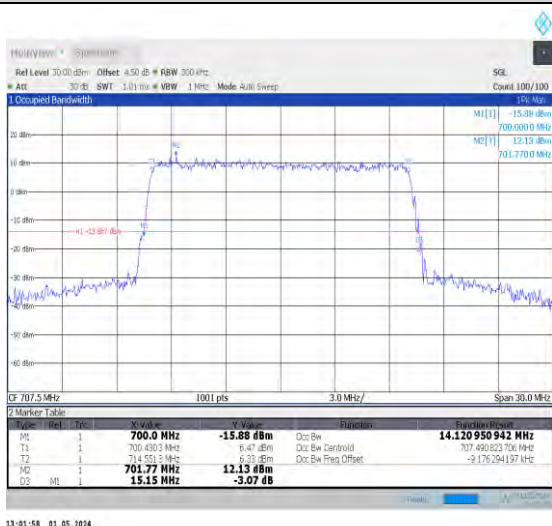
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-Ant0-14.147-15.150-≤15-PASS

1-N12-PC3-15-15-M-8-CP-64QAM-Outer_Full-79@0
-Ant0-14.175-15.240-≤15-PASS



1-N12-PC3-15-15-M-9-CP-256QAM-Outer_Full-79@0
0-Ant0-14.121-15.150-≤15-PASS



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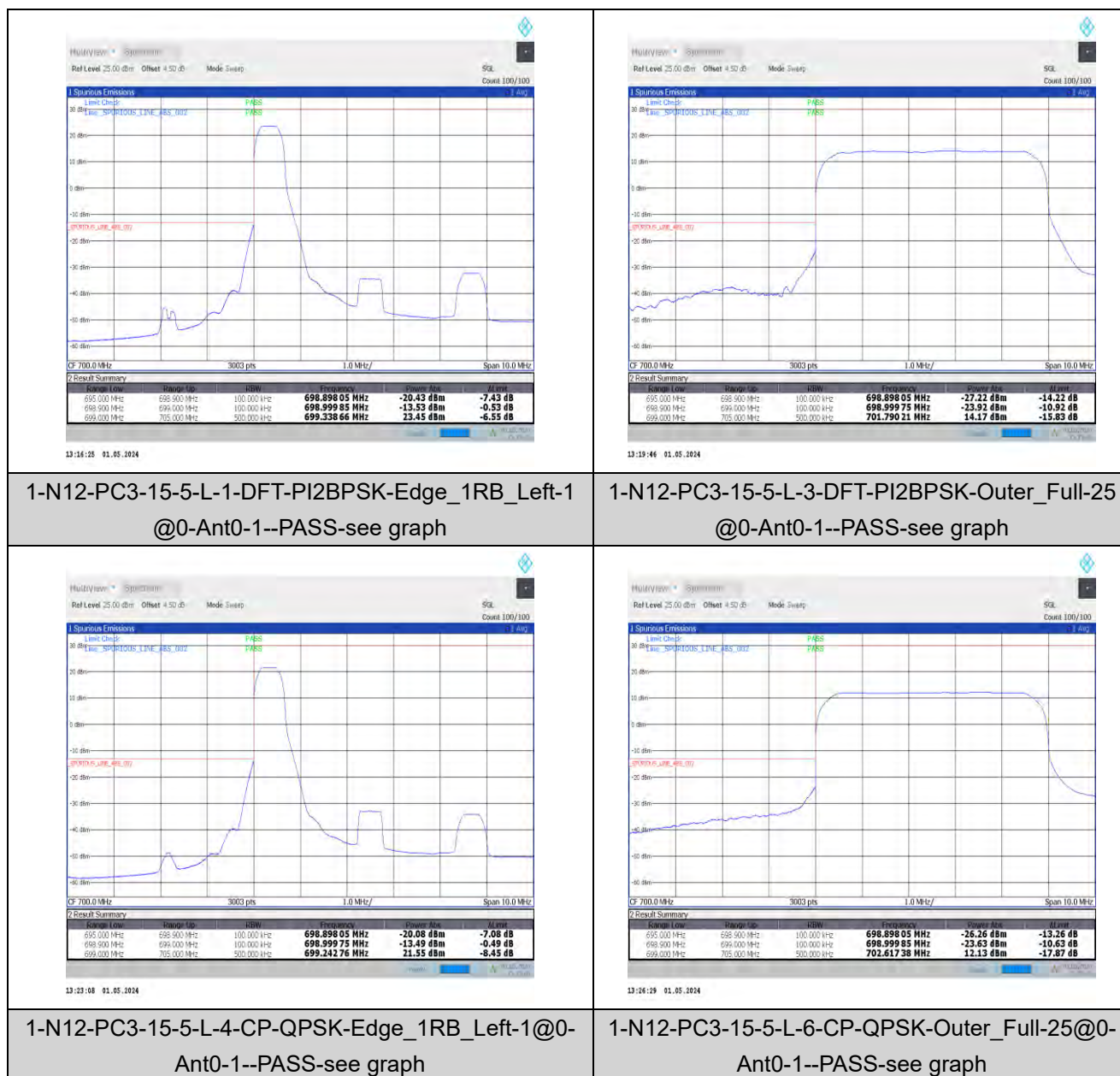
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Band Edge for SA

Test Graphs



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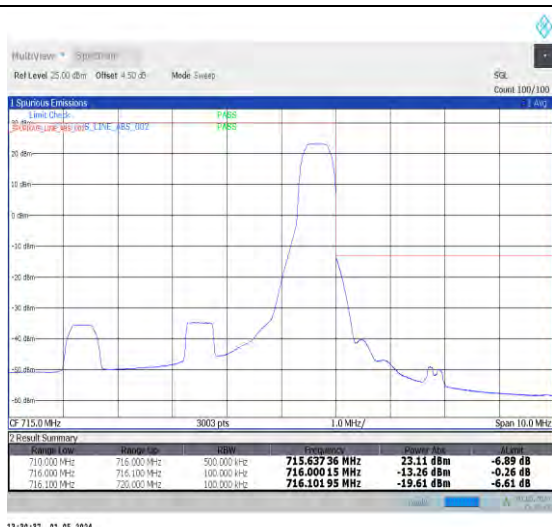
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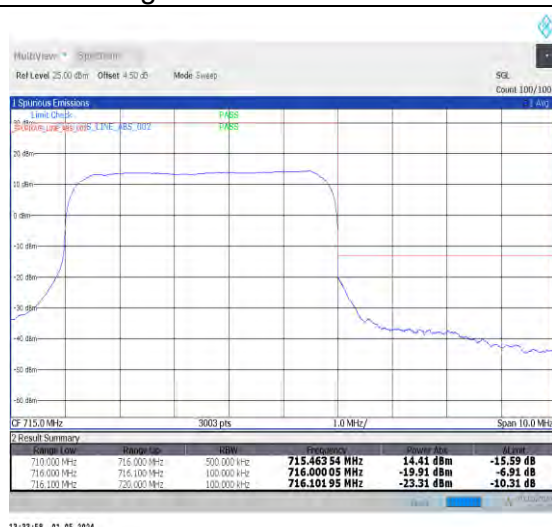
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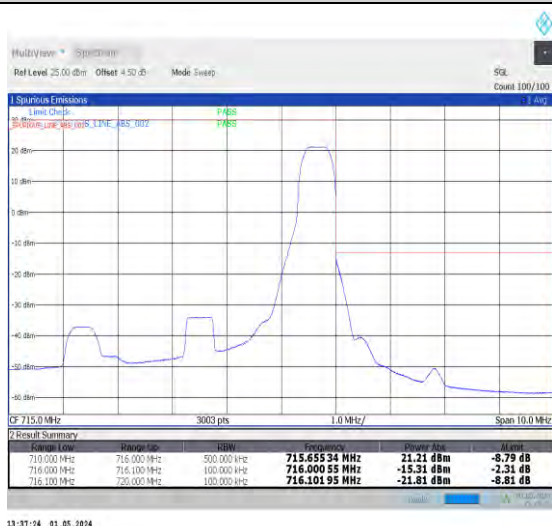
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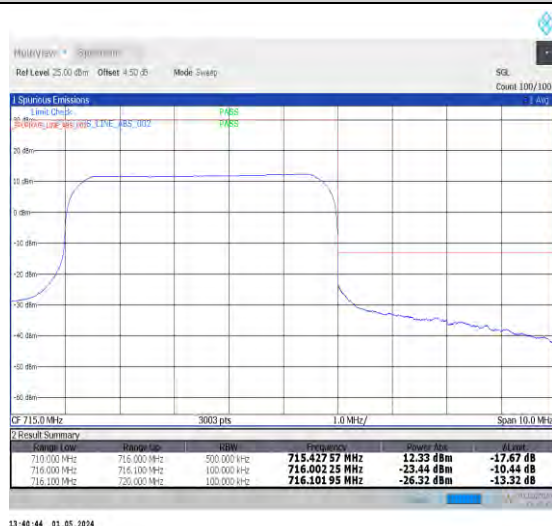
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13:37:24 01.05.2024

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13:40:44 01.05.2024

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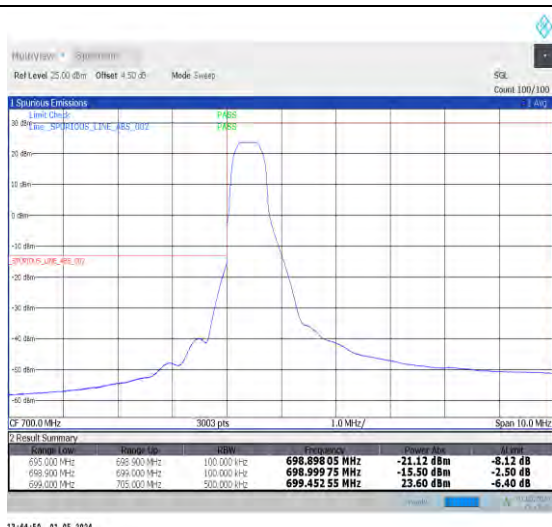
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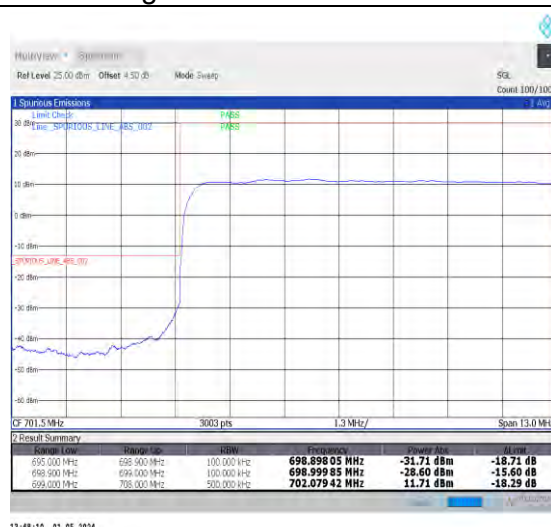
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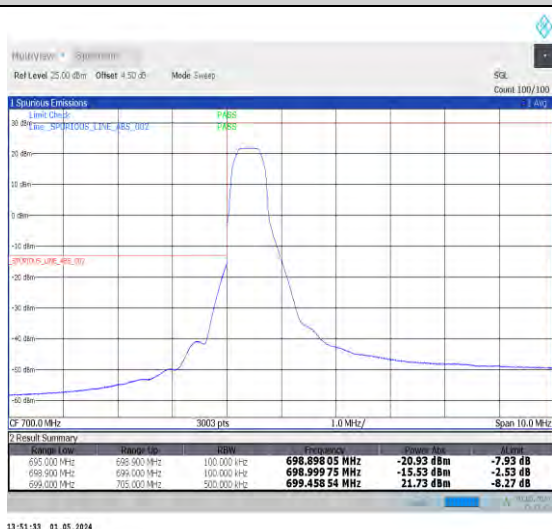
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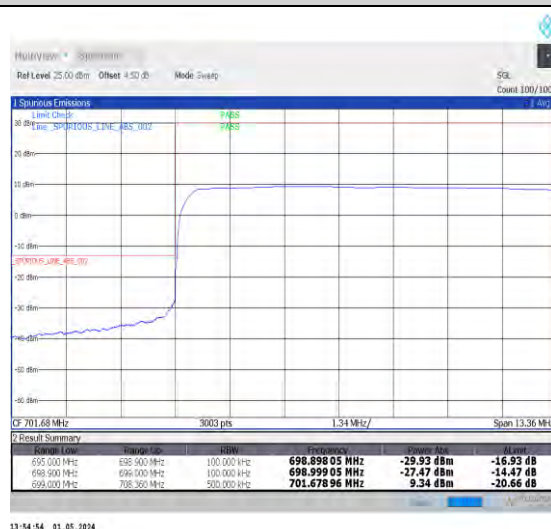
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1-N12-PC3-15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant0-1--PASS-see graph



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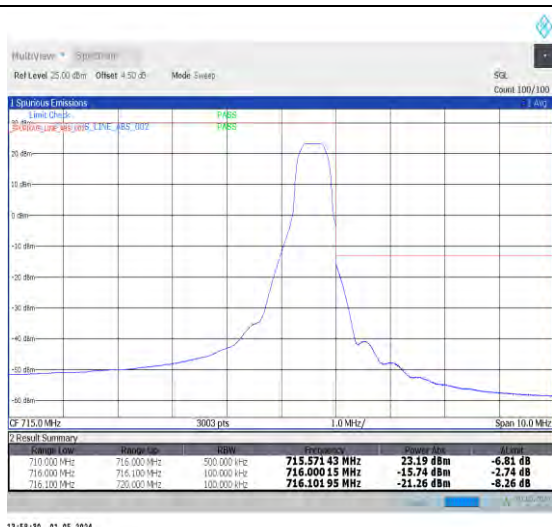
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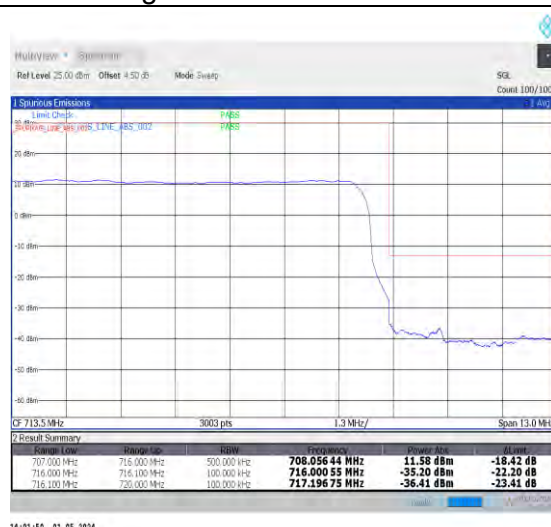
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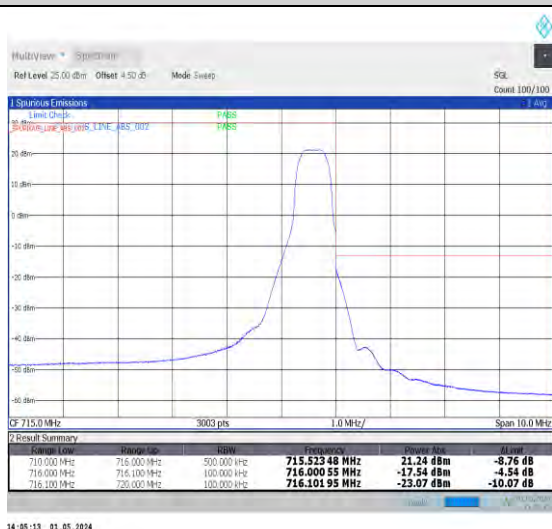
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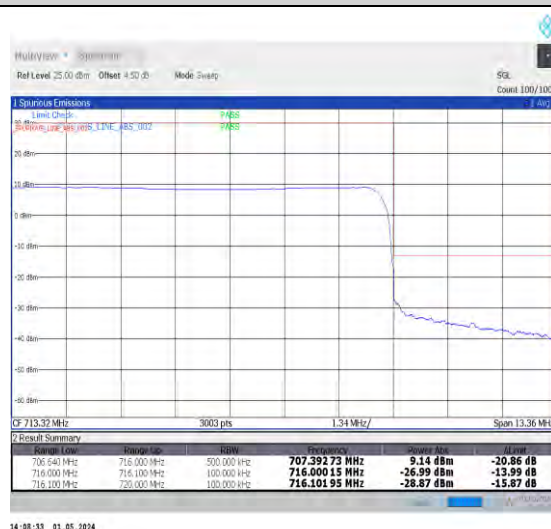
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14:05:13 01.05.2024

1-N12-PC3-15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-Ant0-1--PASS-see graph



14:08:33 01.05.2024

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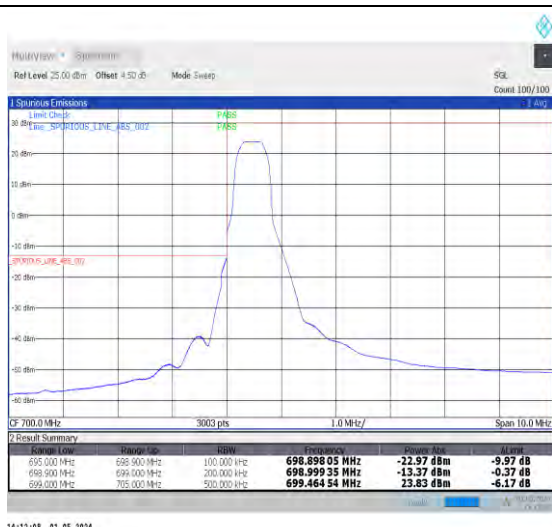
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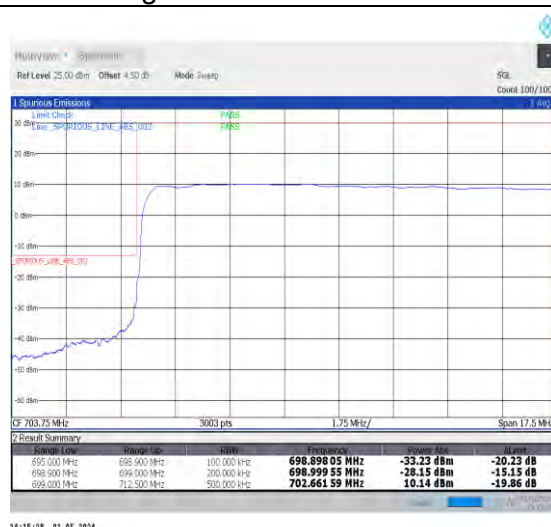
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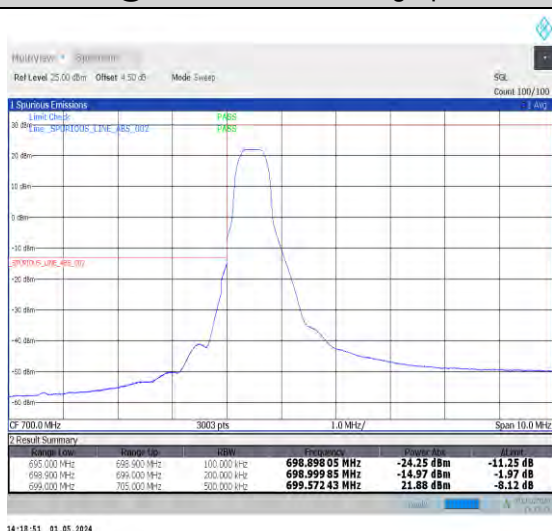
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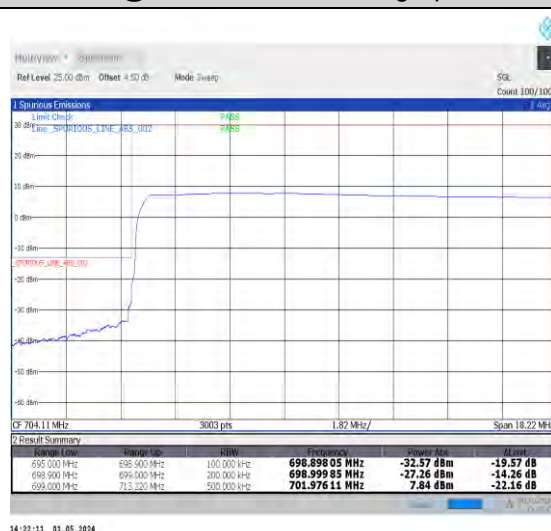
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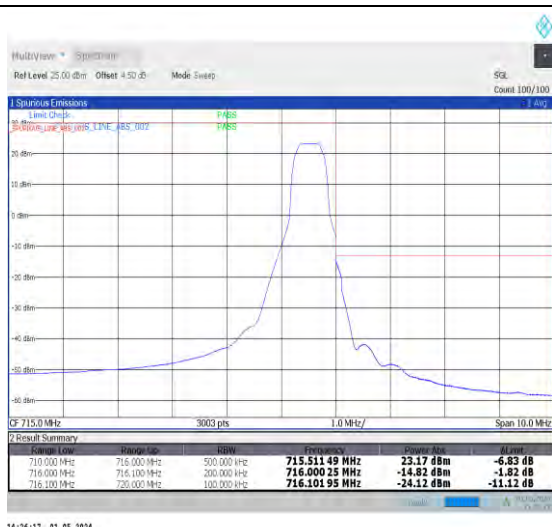
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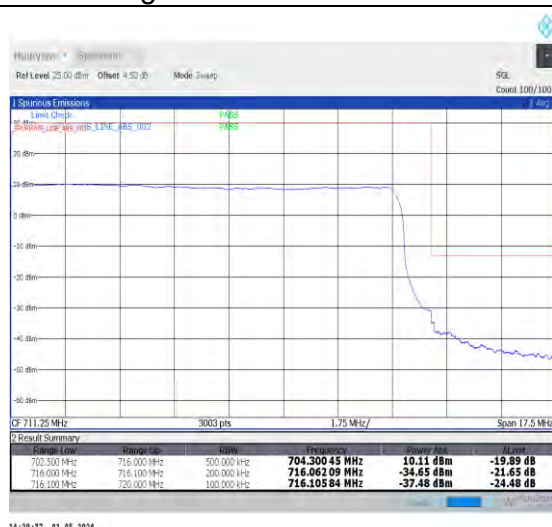
Rev.: 01

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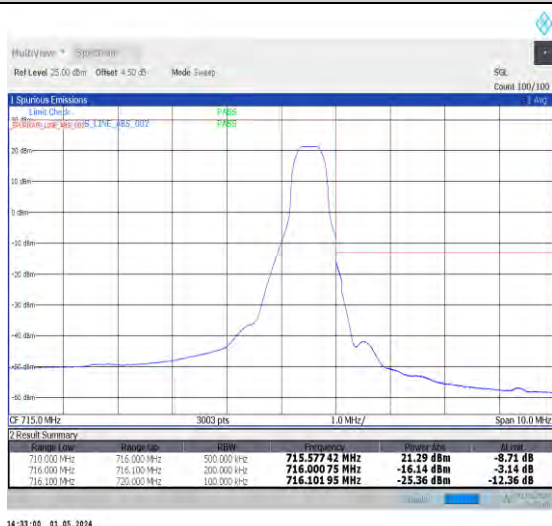
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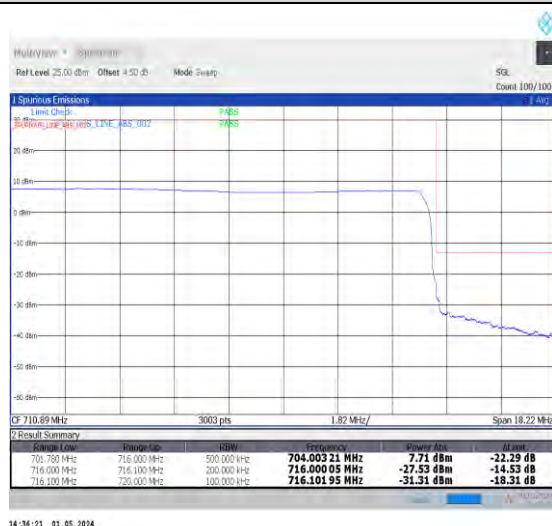
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14:33:00 01.05.2024

1-N12-PC3-15-15-H-5-CP-QPSK-Edge_1RB_Right-1@78-Ant0-1--PASS-see graph



14:36:21 01.05.2024

1-N12-PC3-15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant0-1--PASS-see graph



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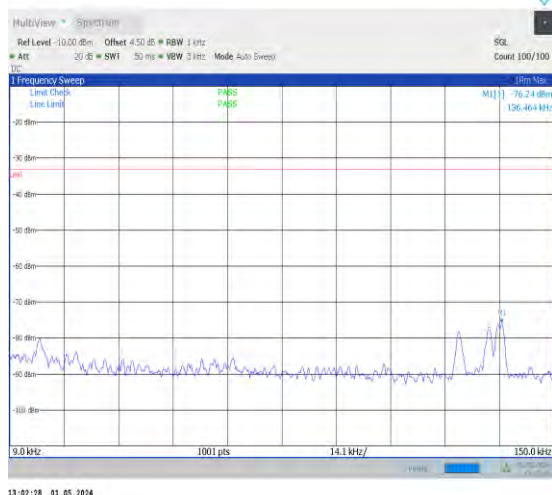
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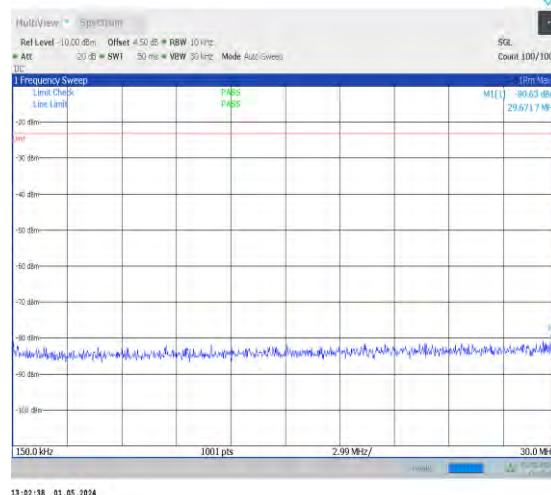
Page: 26 of 38

Conducted Spurious Emission for SA

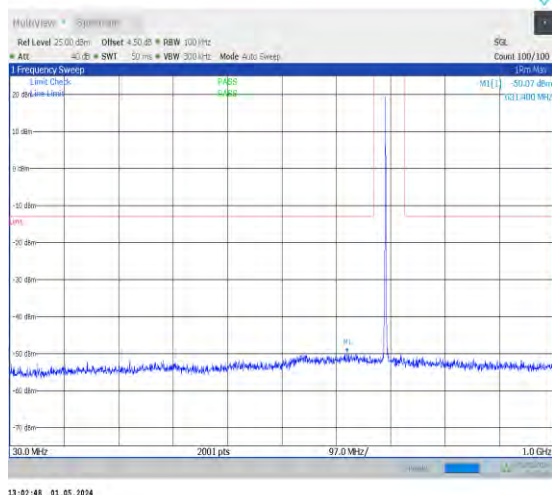
Test Graphs



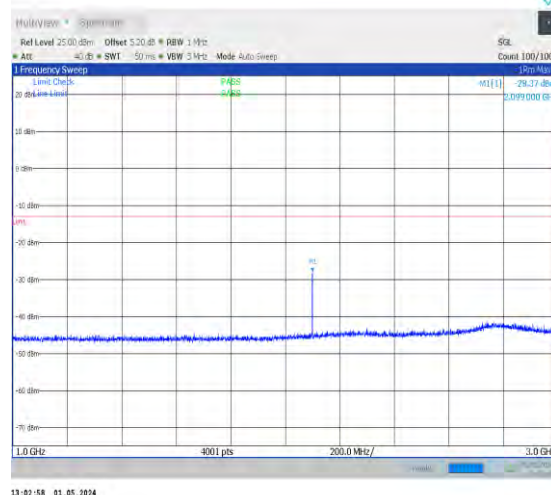
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1-N12-PC3-15-15-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant0-631.40--50.07--13-PASS



1-N12-PC3-15-15-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant0-2099.00--28.37--13-PASS



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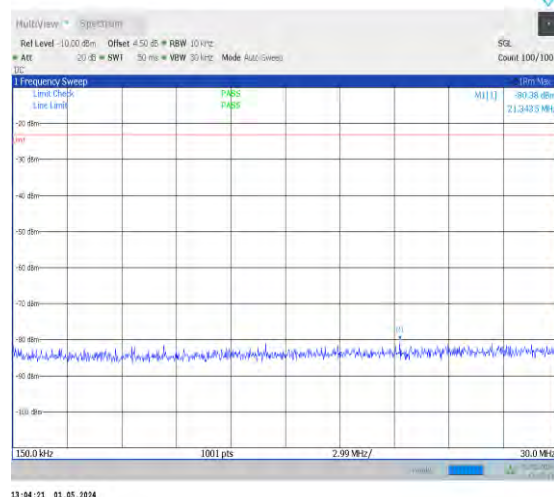
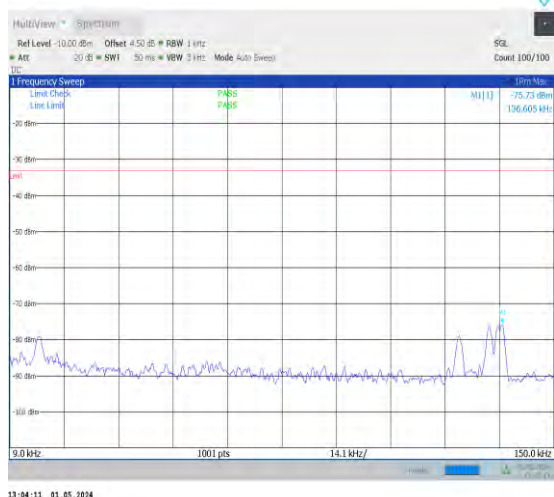
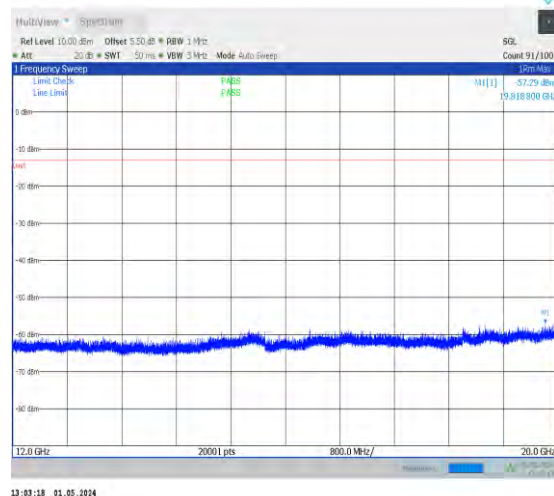
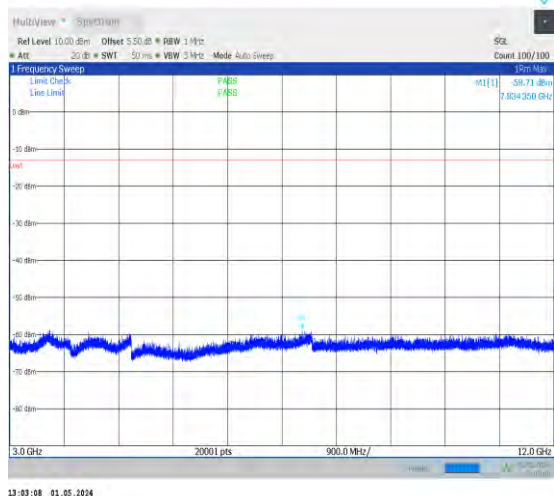
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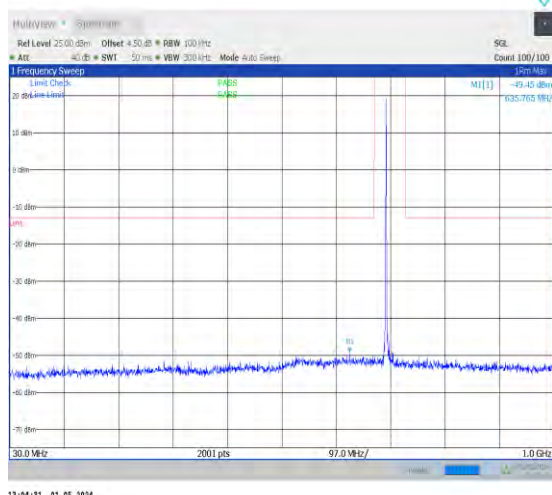
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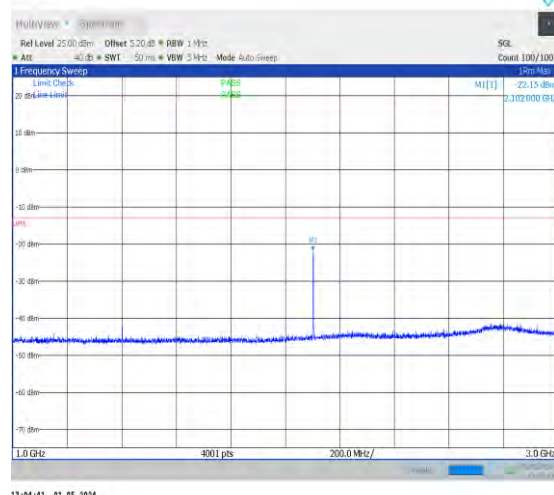
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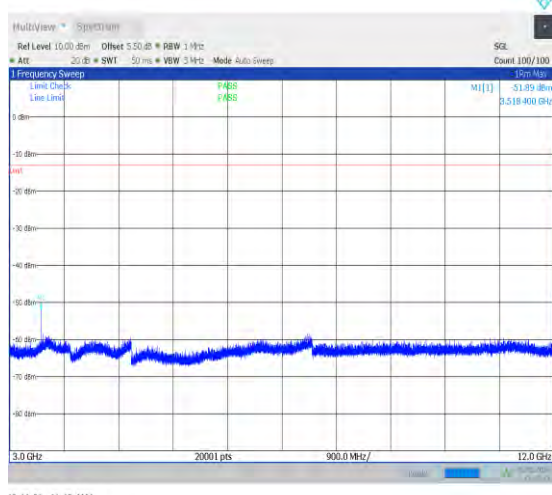
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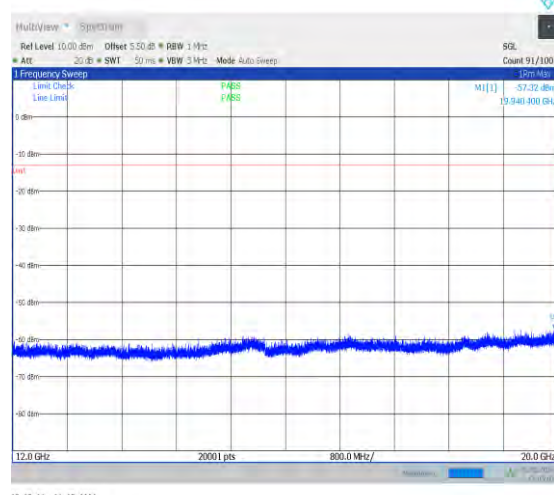
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13:04:51 01.05.2024

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S



13:05:01 01.05.2024

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t-1@1-12000-20000-Ant0-19940.40--57.32--13-PASS



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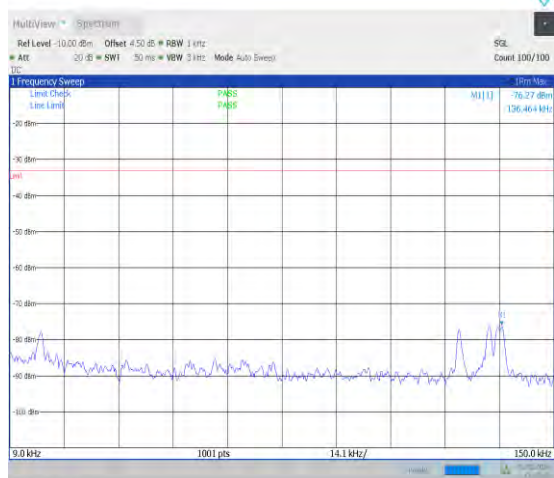
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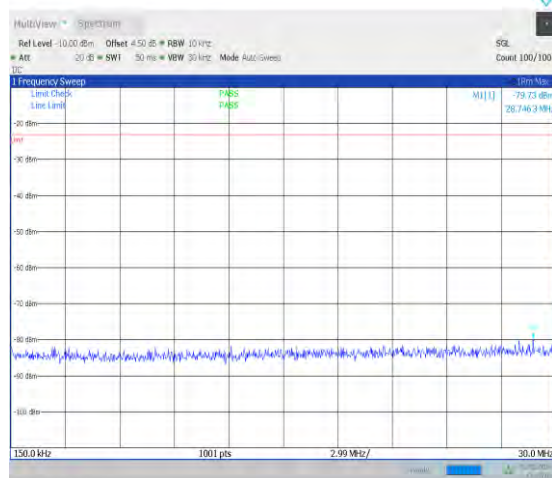
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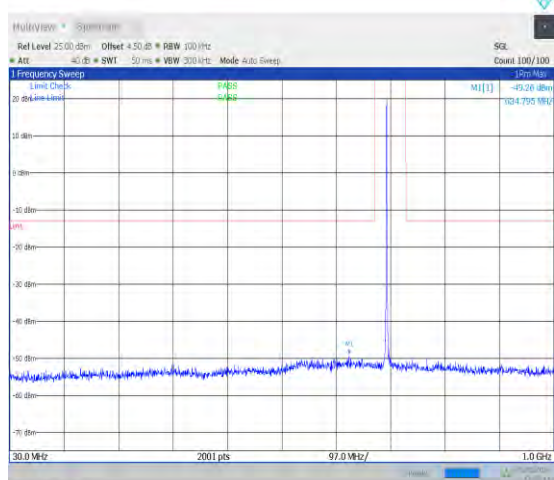
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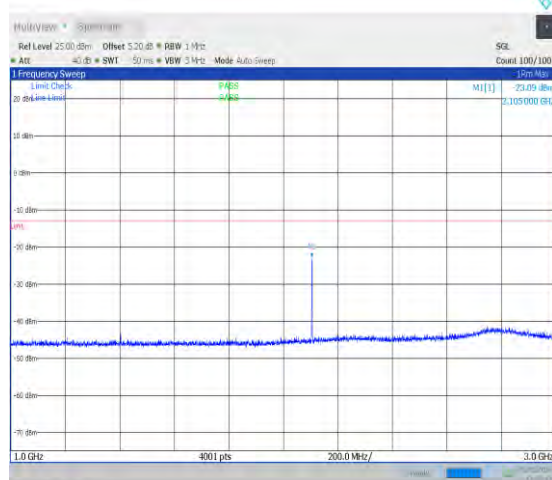
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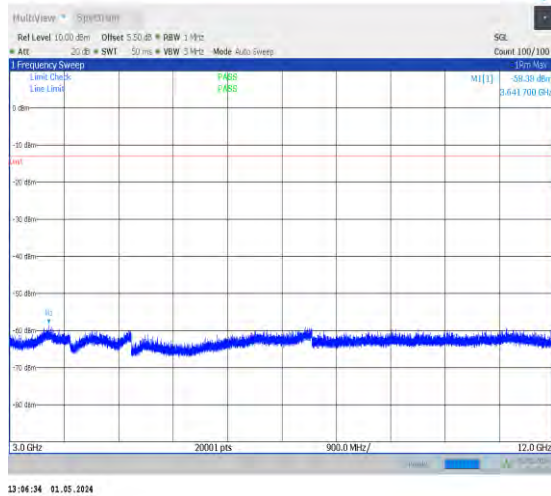
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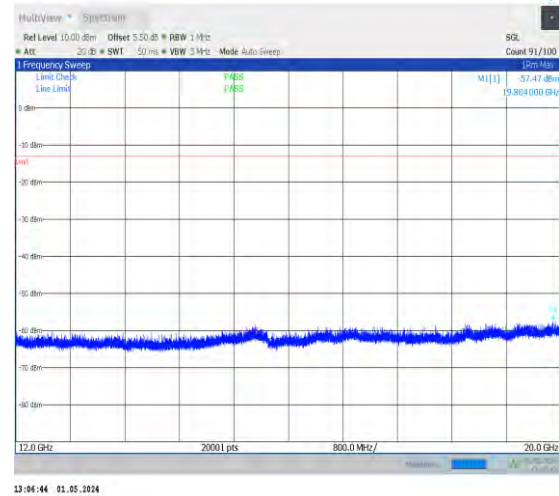
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Field Strength of Spurious Radiation

Test Band = SA_N12

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1398.5	58.34	-53.85	25.80	-64.97	-13.00	51.97	Horizontal
2	2098.5	62.45	-52.59	27.49	-57.91	-13.00	44.91	Horizontal
3	3386	57.32	-49.89	29.77	-58.06	-13.00	45.06	Horizontal
4	4980	50.84	-44.51	33.14	-55.79	-13.00	42.79	Horizontal
5	7008.5	50.35	-43.39	36.47	-51.83	-13.00	38.83	Horizontal
6	9019	49.12	-40.09	38.76	-47.47	-13.00	34.47	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1148	55.20	-53.58	25.90	-67.74	-13.00	54.74	Vertical
2	2098.5	54.23	-52.59	27.49	-66.13	-13.00	53.13	Vertical
3	3166	52.94	-50.15	30.33	-62.14	-13.00	49.14	Vertical
4	3966	52.83	-48.20	30.96	-59.67	-13.00	46.67	Vertical
5	4829	51.63	-44.66	32.63	-55.66	-13.00	42.66	Vertical
6	7917.5	50.03	-41.95	37.44	-49.74	-13.00	36.74	Vertical



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Test Band = SA_N12

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1405.5	56.37	-53.82	25.79	-66.92	-13.00	53.92	Horizontal
2	2109	65.65	-52.60	27.48	-54.73	-13.00	41.73	Horizontal
3	3384.5	57.85	-49.91	29.77	-57.55	-13.00	44.55	Horizontal
4	5105	51.67	-44.51	33.51	-54.59	-13.00	41.59	Horizontal
5	7088	50.50	-43.45	36.76	-51.45	-13.00	38.45	Horizontal
6	9511.5	49.05	-39.30	39.18	-46.33	-13.00	33.33	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1158	55.00	-53.60	25.85	-68.01	-13.00	55.01	Vertical
2	1779	57.06	-53.12	25.62	-65.70	-13.00	52.70	Vertical
3	2511.5	53.71	-51.76	28.07	-65.24	-13.00	52.24	Vertical
4	4817.5	51.74	-44.57	32.54	-55.55	-13.00	42.55	Vertical
5	6237	50.95	-44.30	34.35	-54.26	-13.00	41.26	Vertical
6	9454.5	49.15	-39.71	39.02	-46.80	-13.00	33.80	Vertical



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Test Band = SA_N12

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1235.5	56.74	-53.91	25.67	-66.76	-13.00	53.76	Horizontal
2	1412.5	57.74	-53.78	25.78	-65.52	-13.00	52.52	Horizontal
3	2119.5	62.43	-52.61	27.46	-57.98	-13.00	44.98	Horizontal
4	3381.5	57.41	-49.93	29.76	-58.02	-13.00	45.02	Horizontal
5	4828.5	51.70	-44.66	32.63	-55.59	-13.00	42.59	Horizontal
6	7377.5	49.57	-42.38	36.85	-51.22	-13.00	38.22	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1344.5	54.52	-53.70	25.87	-68.57	-13.00	55.57	Vertical
2	1827	54.45	-53.12	25.75	-68.18	-13.00	55.18	Vertical
3	2829.5	53.50	-50.87	28.78	-63.85	-13.00	50.85	Vertical
4	3986	52.21	-48.16	31.04	-60.17	-13.00	47.17	Vertical
5	5670	51.33	-44.53	33.38	-55.08	-13.00	42.08	Vertical
6	8466	49.64	-41.48	37.97	-49.13	-13.00	36.13	Vertical



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Test Band = NSA_B2+N12
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	53.93	-49.53	30.27	-60.59	-13.00	47.59	Horizontal
2	4248	52.91	-48.43	32.08	-58.70	-13.00	45.70	Horizontal
3	5892	51.95	-45.64	34.27	-54.68	-13.00	41.68	Horizontal
4	8550	48.82	-41.36	39.10	-48.70	-13.00	35.70	Horizontal
5	12850.5	47.60	-36.93	39.40	-45.19	-13.00	32.19	Horizontal
6	17999.5	49.26	-38.99	42.80	-42.19	-13.00	29.19	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3755.5	56.49	-49.47	30.50	-57.74	-13.00	44.74	Vertical
2	5154.5	52.38	-47.11	33.48	-56.51	-13.00	43.51	Vertical
3	8461.5	49.63	-42.43	37.98	-50.08	-13.00	37.08	Vertical
4	11412	47.80	-38.48	39.68	-46.26	-13.00	33.26	Vertical
5	15033.5	47.41	-35.21	39.87	-43.19	-13.00	30.19	Vertical
6	17994	49.46	-38.98	42.76	-42.02	-13.00	29.02	Vertical



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Test Band = NSA_B2+N12

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3634.5	54.24	-49.52	30.34	-60.20	-13.00	47.20	Horizontal
2	4803.5	52.51	-47.71	32.43	-58.03	-13.00	45.03	Horizontal
3	6527	50.84	-44.94	35.15	-54.21	-13.00	41.21	Horizontal
4	8546	49.36	-41.44	39.00	-48.34	-13.00	35.34	Horizontal
5	12425	47.02	-37.66	39.58	-46.32	-13.00	33.32	Horizontal
6	17997	48.71	-38.99	42.78	-42.76	-13.00	29.76	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3755.5	55.12	-49.47	30.50	-59.11	-13.00	46.11	Vertical
2	5137	52.49	-47.26	33.57	-56.46	-13.00	43.46	Vertical
3	7377.5	51.08	-43.62	36.85	-50.95	-13.00	37.95	Vertical
4	9488	48.97	-40.70	39.15	-47.84	-13.00	34.84	Vertical
5	14065.5	46.73	-36.52	40.63	-44.42	-13.00	31.42	Vertical
6	17998	48.64	-38.99	42.79	-42.82	-13.00	29.82	Vertical



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Test Band = NSA_B2+N12

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3609	54.16	-49.54	30.24	-60.40	-13.00	47.40	Horizontal
2	5149.5	52.24	-47.18	33.60	-56.60	-13.00	43.60	Horizontal
3	7230	50.73	-44.23	37.16	-51.60	-13.00	38.60	Horizontal
4	9473.5	49.52	-40.85	39.09	-47.50	-13.00	34.50	Horizontal
5	13428.5	46.86	-36.48	40.24	-44.64	-13.00	31.64	Horizontal
6	17990	49.26	-38.98	42.74	-42.24	-13.00	29.24	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3755.5	54.41	-49.47	30.50	-59.82	-13.00	46.82	Vertical
2	5110.5	52.68	-47.41	33.52	-56.47	-13.00	43.47	Vertical
3	8547	49.50	-41.42	39.03	-48.15	-13.00	35.15	Vertical
4	11380	47.76	-38.62	39.68	-46.44	-13.00	33.44	Vertical
5	15031	47.18	-35.18	39.87	-43.39	-13.00	30.39	Vertical
6	17984	49.19	-38.97	42.70	-42.34	-13.00	29.34	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
N12	15	15	DFT-PI2BPSK	M	Outer_Full	VH	NT	-2.800000	-0.003958	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	VN	NT	-5.600000	-0.007915	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	VL	NT	-8.200000	-0.011590	PASS
N12	15	15	CP-QPSK	M	Outer_Full	VH	NT	0.400000	0.000565	PASS
N12	15	15	CP-QPSK	M	Outer_Full	VN	NT	-2.100000	-0.002968	PASS
N12	15	15	CP-QPSK	M	Outer_Full	VL	NT	-3.000000	-0.004240	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	50	-2.200000	-0.003110	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-20	-3.200000	-0.004523	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-10	-2.300000	-0.003251	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	0	-3.600000	-0.005088	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	10	-3.700000	-0.005230	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	20	-2.800000	-0.003958	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	30	-4.900000	-0.006926	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-30	-2.800000	-0.003958	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	40	-6.000000	-0.008481	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	50	-2.900000	-0.004099	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	-20	-1.100000	-0.001555	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	-10	-1.400000	-0.001979	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	0	-3.600000	-0.005088	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	10	-0.300000	-0.000424	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	20	-1.200000	-0.001696	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	30	-0.400000	-0.000565	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	40	-2.600000	-0.003675	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	-30	1.300000	0.001837	PASS

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