

Report No.: SEWA2310000127RG02

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# Appendix B.27

## ENDC\_2A\_n5A



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## Effective (Isotropic) Radiated Power Output Data for SA

### Test Result

Ant1

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit	Verdict
DC_2A_n5A	15	5+5	DFT-PI2BPSK	M+L	Inner_1RB_Left	23.54	23.95	38.45	PASS
DC_2A_n5A	15	5+5	DFT-PI2BPSK	M+L	Inner_1RB_Right	23.41	23.82	38.45	PASS
DC_2A_n5A	15	5+5	DFT-PI2BPSK	M+L	Outer_Full	22.96	23.37	38.45	PASS
DC_2A_n5A	15	5+5	DFT-QPSK	M+L	Inner_1RB_Left	23.44	23.85	38.45	PASS
DC_2A_n5A	15	5+5	DFT-QPSK	M+L	Inner_1RB_Right	23.34	23.75	38.45	PASS
DC_2A_n5A	15	5+5	DFT-QPSK	M+L	Outer_Full	22.54	22.95	38.45	PASS
DC_2A_n5A	15	5+5	DFT-16QAM	M+L	Inner_1RB_Left	22.48	22.89	38.45	PASS
DC_2A_n5A	15	5+5	DFT-16QAM	M+L	Inner_1RB_Right	22.44	22.85	38.45	PASS
DC_2A_n5A	15	5+5	DFT-16QAM	M+L	Outer_Full	21.65	22.06	38.45	PASS
DC_2A_n5A	15	5+5	DFT-64QAM	M+L	Inner_1RB_Left	21.2	21.61	38.45	PASS
DC_2A_n5A	15	5+5	DFT-64QAM	M+L	Inner_1RB_Right	20.73	21.14	38.45	PASS
DC_2A_n5A	15	5+5	DFT-64QAM	M+L	Outer_Full	21.17	21.58	38.45	PASS
DC_2A_n5A	15	5+5	DFT-256QAM	M+L	Inner_1RB_Left	18.64	19.05	38.45	PASS
DC_2A_n5A	15	5+5	DFT-256QAM	M+L	Inner_1RB_Right	18.29	18.7	38.45	PASS
DC_2A_n5A	15	5+5	DFT-256QAM	M+L	Outer_Full	19.08	19.49	38.45	PASS
DC_2A_n5A	15	5+5	DFT-PI2BPSK	M+M	Inner_1RB_Left	23.42	23.83	38.45	PASS
DC_2A_n5A	15	5+5	DFT-PI2BPSK	M+M	Inner_1RB_Right	23.49	23.9	38.45	PASS
DC_2A_n5A	15	5+5	DFT-PI2BPSK	M+M	Outer_Full	22.9	23.31	38.45	PASS
DC_2A_n5A	15	5+5	DFT-QPSK	M+M	Inner_1RB_Left	23.19	23.6	38.45	PASS
DC_2A_n5A	15	5+5	DFT-QPSK	M+M	Inner_1RB_Right	23.45	23.86	38.45	PASS
DC_2A_n5A	15	5+5	DFT-QPSK	M+M	Outer_Full	22.84	23.25	38.45	PASS
DC_2A_n5A	15	5+5	DFT-16QAM	M+M	Inner_1RB_Left	22.32	22.73	38.45	PASS
DC_2A_n5A	15	5+5	DFT-16QAM	M+M	Inner_1RB_Right	22.34	22.75	38.45	PASS
DC_2A_n5A	15	5+5	DFT-16QAM	M+M	Outer_Full	22.37	22.78	38.45	PASS
DC_2A_n5A	15	5+5	DFT-64QAM	M+M	Inner_1RB_Left	20.98	21.39	38.45	PASS
DC_2A_n5A	15	5+5	DFT-64QAM	M+M	Inner_1RB_Right	20.81	21.22	38.45	PASS
DC_2A_n5A	15	5+5	DFT-64QAM	M+M	Outer_Full	20.72	21.13	38.45	PASS
DC_2A_n5A	15	5+5	DFT-256QAM	M+M	Inner_1RB_Left	18.54	18.95	38.45	PASS
DC_2A_n5A	15	5+5	DFT-256QAM	M+M	Inner_1RB_Right	18.42	18.83	38.45	PASS
DC_2A_n5A	15	5+5	DFT-256QAM	M+M	Outer_Full	18.88	19.29	38.45	PASS



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Table with 10 columns: Test ID, Sample No., Lot No., Modulation, Coding Rate, Channel, SNR, BER, Error Rate, Result. Rows include various modulation schemes like DFT-PI2BPSK, DFT-QPSK, DFT-16QAM, DFT-64QAM, DFT-256QAM.



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DC_2A_n5A	15	5+10	DFT-16QAM	M+M	Inner_1RB_Right	22.58	22.99	38.45	PASS
DC_2A_n5A	15	5+10	DFT-16QAM	M+M	Outer_Full	21.54	21.95	38.45	PASS
DC_2A_n5A	15	5+10	DFT-64QAM	M+M	Inner_1RB_Left	20.71	21.12	38.45	PASS
DC_2A_n5A	15	5+10	DFT-64QAM	M+M	Inner_1RB_Right	20.82	21.23	38.45	PASS
DC_2A_n5A	15	5+10	DFT-64QAM	M+M	Outer_Full	21.13	21.54	38.45	PASS
DC_2A_n5A	15	5+10	DFT-256QAM	M+M	Inner_1RB_Left	18.22	18.63	38.45	PASS
DC_2A_n5A	15	5+10	DFT-256QAM	M+M	Inner_1RB_Right	18.47	18.88	38.45	PASS
DC_2A_n5A	15	5+10	DFT-256QAM	M+M	Outer_Full	18.92	19.33	38.45	PASS
DC_2A_n5A	15	5+10	DFT-PI2BPSK	M+H	Inner_1RB_Left	23.38	23.79	38.45	PASS
DC_2A_n5A	15	5+10	DFT-PI2BPSK	M+H	Inner_1RB_Right	23.84	24.25	38.45	PASS
DC_2A_n5A	15	5+10	DFT-PI2BPSK	M+H	Outer_Full	23.16	23.57	38.45	PASS
DC_2A_n5A	15	5+10	DFT-QPSK	M+H	Inner_1RB_Left	23.39	23.8	38.45	PASS
DC_2A_n5A	15	5+10	DFT-QPSK	M+H	Inner_1RB_Right	23.8	24.21	38.45	PASS
DC_2A_n5A	15	5+10	DFT-QPSK	M+H	Outer_Full	22.72	23.13	38.45	PASS
DC_2A_n5A	15	5+10	DFT-16QAM	M+H	Inner_1RB_Left	22.13	22.54	38.45	PASS
DC_2A_n5A	15	5+10	DFT-16QAM	M+H	Inner_1RB_Right	22.69	23.1	38.45	PASS
DC_2A_n5A	15	5+10	DFT-16QAM	M+H	Outer_Full	21.74	22.15	38.45	PASS
DC_2A_n5A	15	5+10	DFT-64QAM	M+H	Inner_1RB_Left	20.93	21.34	38.45	PASS
DC_2A_n5A	15	5+10	DFT-64QAM	M+H	Inner_1RB_Right	21	21.41	38.45	PASS
DC_2A_n5A	15	5+10	DFT-64QAM	M+H	Outer_Full	21.19	21.6	38.45	PASS
DC_2A_n5A	15	5+10	DFT-256QAM	M+H	Inner_1RB_Left	18.49	18.9	38.45	PASS
DC_2A_n5A	15	5+10	DFT-256QAM	M+H	Inner_1RB_Right	18.76	19.17	38.45	PASS
DC_2A_n5A	15	5+10	DFT-256QAM	M+H	Outer_Full	19.22	19.63	38.45	PASS
DC_2A_n5A	15	5+15	DFT-PI2BPSK	M+L	Inner_1RB_Left	23.53	23.94	38.45	PASS
DC_2A_n5A	15	5+15	DFT-PI2BPSK	M+L	Inner_1RB_Right	23.67	24.08	38.45	PASS
DC_2A_n5A	15	5+15	DFT-PI2BPSK	M+L	Outer_Full	23.03	23.44	38.45	PASS
DC_2A_n5A	15	5+15	DFT-QPSK	M+L	Inner_1RB_Left	23.54	23.95	38.45	PASS
DC_2A_n5A	15	5+15	DFT-QPSK	M+L	Inner_1RB_Right	23.62	24.03	38.45	PASS
DC_2A_n5A	15	5+15	DFT-QPSK	M+L	Outer_Full	23.45	23.86	38.45	PASS
DC_2A_n5A	15	5+15	DFT-16QAM	M+L	Inner_1RB_Left	22.5	22.91	38.45	PASS
DC_2A_n5A	15	5+15	DFT-16QAM	M+L	Inner_1RB_Right	22.44	22.85	38.45	PASS
DC_2A_n5A	15	5+15	DFT-16QAM	M+L	Outer_Full	21.5	21.91	38.45	PASS
DC_2A_n5A	15	5+15	DFT-64QAM	M+L	Inner_1RB_Left	21.09	21.5	38.45	PASS
DC_2A_n5A	15	5+15	DFT-64QAM	M+L	Inner_1RB_Right	21.04	21.45	38.45	PASS
DC_2A_n5A	15	5+15	DFT-64QAM	M+L	Outer_Full	21.12	21.53	38.45	PASS
DC_2A_n5A	15	5+15	DFT-256QAM	M+L	Inner_1RB_Left	19.09	19.5	38.45	PASS
DC_2A_n5A	15	5+15	DFT-256QAM	M+L	Inner_1RB_Right	18.63	19.04	38.45	PASS



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DC_2A_n5A	15	5+15	DFT-256QAM	M+L	Outer_Full	19.06	19.47	38.45	PASS
DC_2A_n5A	15	5+15	DFT-PI2BPSK	M+M	Inner_1RB_Left	23.59	24	38.45	PASS
DC_2A_n5A	15	5+15	DFT-PI2BPSK	M+M	Inner_1RB_Right	23.64	24.05	38.45	PASS
DC_2A_n5A	15	5+15	DFT-PI2BPSK	M+M	Outer_Full	22.99	23.4	38.45	PASS
DC_2A_n5A	15	5+15	DFT-QPSK	M+M	Inner_1RB_Left	23.61	24.02	38.45	PASS
DC_2A_n5A	15	5+15	DFT-QPSK	M+M	Inner_1RB_Right	23.61	24.02	38.45	PASS
DC_2A_n5A	15	5+15	DFT-QPSK	M+M	Outer_Full	22.59	23	38.45	PASS
DC_2A_n5A	15	5+15	DFT-16QAM	M+M	Inner_1RB_Left	22.62	23.03	38.45	PASS
DC_2A_n5A	15	5+15	DFT-16QAM	M+M	Inner_1RB_Right	22.7	23.11	38.45	PASS
DC_2A_n5A	15	5+15	DFT-16QAM	M+M	Outer_Full	21.55	21.96	38.45	PASS
DC_2A_n5A	15	5+15	DFT-64QAM	M+M	Inner_1RB_Left	21.39	21.8	38.45	PASS
DC_2A_n5A	15	5+15	DFT-64QAM	M+M	Inner_1RB_Right	21	21.41	38.45	PASS
DC_2A_n5A	15	5+15	DFT-64QAM	M+M	Outer_Full	21.12	21.53	38.45	PASS
DC_2A_n5A	15	5+15	DFT-256QAM	M+M	Inner_1RB_Left	18.5	18.91	38.45	PASS
DC_2A_n5A	15	5+15	DFT-256QAM	M+M	Inner_1RB_Right	18.48	18.89	38.45	PASS
DC_2A_n5A	15	5+15	DFT-256QAM	M+M	Outer_Full	19.07	19.48	38.45	PASS
DC_2A_n5A	15	5+15	DFT-PI2BPSK	M+H	Inner_1RB_Left	23.52	23.93	38.45	PASS
DC_2A_n5A	15	5+15	DFT-PI2BPSK	M+H	Inner_1RB_Right	23.92	24.33	38.45	PASS
DC_2A_n5A	15	5+15	DFT-PI2BPSK	M+H	Outer_Full	22.99	23.4	38.45	PASS
DC_2A_n5A	15	5+15	DFT-QPSK	M+H	Inner_1RB_Left	23.56	23.97	38.45	PASS
DC_2A_n5A	15	5+15	DFT-QPSK	M+H	Inner_1RB_Right	23.84	24.25	38.45	PASS
DC_2A_n5A	15	5+15	DFT-QPSK	M+H	Outer_Full	22.67	23.08	38.45	PASS
DC_2A_n5A	15	5+15	DFT-16QAM	M+H	Inner_1RB_Left	22.39	22.8	38.45	PASS
DC_2A_n5A	15	5+15	DFT-16QAM	M+H	Inner_1RB_Right	22.29	22.7	38.45	PASS
DC_2A_n5A	15	5+15	DFT-16QAM	M+H	Outer_Full	21.62	22.03	38.45	PASS
DC_2A_n5A	15	5+15	DFT-64QAM	M+H	Inner_1RB_Left	20.96	21.37	38.45	PASS
DC_2A_n5A	15	5+15	DFT-64QAM	M+H	Inner_1RB_Right	21.23	21.64	38.45	PASS
DC_2A_n5A	15	5+15	DFT-64QAM	M+H	Outer_Full	21.2	21.61	38.45	PASS
DC_2A_n5A	15	5+15	DFT-256QAM	M+H	Inner_1RB_Left	18.49	18.9	38.45	PASS
DC_2A_n5A	15	5+15	DFT-256QAM	M+H	Inner_1RB_Right	18.75	19.16	38.45	PASS
DC_2A_n5A	15	5+15	DFT-256QAM	M+H	Outer_Full	19.02	19.43	38.45	PASS
DC_2A_n5A	15	5+20	DFT-PI2BPSK	M+L	Inner_1RB_Left	23.45	23.86	38.45	PASS
DC_2A_n5A	15	5+20	DFT-PI2BPSK	M+L	Inner_1RB_Right	23.65	24.06	38.45	PASS
DC_2A_n5A	15	5+20	DFT-PI2BPSK	M+L	Outer_Full	23.01	23.42	38.45	PASS
DC_2A_n5A	15	5+20	DFT-QPSK	M+L	Inner_1RB_Left	23.67	24.08	38.45	PASS
DC_2A_n5A	15	5+20	DFT-QPSK	M+L	Inner_1RB_Right	23.68	24.09	38.45	PASS
DC_2A_n5A	15	5+20	DFT-QPSK	M+L	Outer_Full	22.73	23.14	38.45	PASS



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DC_2A_n5A	15	5+20	DFT-16QAM	M+L	Inner_1RB_Left	22.56	22.97	38.45	PASS
DC_2A_n5A	15	5+20	DFT-16QAM	M+L	Inner_1RB_Right	22.64	23.05	38.45	PASS
DC_2A_n5A	15	5+20	DFT-16QAM	M+L	Outer_Full	21.75	22.16	38.45	PASS
DC_2A_n5A	15	5+20	DFT-64QAM	M+L	Inner_1RB_Left	20.95	21.36	38.45	PASS
DC_2A_n5A	15	5+20	DFT-64QAM	M+L	Inner_1RB_Right	20.83	21.24	38.45	PASS
DC_2A_n5A	15	5+20	DFT-64QAM	M+L	Outer_Full	21.25	21.66	38.45	PASS
DC_2A_n5A	15	5+20	DFT-256QAM	M+L	Inner_1RB_Left	18.56	18.97	38.45	PASS
DC_2A_n5A	15	5+20	DFT-256QAM	M+L	Inner_1RB_Right	18.51	18.92	38.45	PASS
DC_2A_n5A	15	5+20	DFT-256QAM	M+L	Outer_Full	19.08	19.49	38.45	PASS
DC_2A_n5A	15	5+20	DFT-PI2BPSK	M+M	Inner_1RB_Left	23.42	23.83	38.45	PASS
DC_2A_n5A	15	5+20	DFT-PI2BPSK	M+M	Inner_1RB_Right	23.75	24.16	38.45	PASS
DC_2A_n5A	15	5+20	DFT-PI2BPSK	M+M	Outer_Full	22.93	23.34	38.45	PASS
DC_2A_n5A	15	5+20	DFT-QPSK	M+M	Inner_1RB_Left	23.55	23.96	38.45	PASS
DC_2A_n5A	15	5+20	DFT-QPSK	M+M	Inner_1RB_Right	23.7	24.11	38.45	PASS
DC_2A_n5A	15	5+20	DFT-QPSK	M+M	Outer_Full	22.55	22.96	38.45	PASS
DC_2A_n5A	15	5+20	DFT-16QAM	M+M	Inner_1RB_Left	22.42	22.83	38.45	PASS
DC_2A_n5A	15	5+20	DFT-16QAM	M+M	Inner_1RB_Right	22.7	23.11	38.45	PASS
DC_2A_n5A	15	5+20	DFT-16QAM	M+M	Outer_Full	21.75	22.16	38.45	PASS
DC_2A_n5A	15	5+20	DFT-64QAM	M+M	Inner_1RB_Left	20.81	21.22	38.45	PASS
DC_2A_n5A	15	5+20	DFT-64QAM	M+M	Inner_1RB_Right	21.11	21.52	38.45	PASS
DC_2A_n5A	15	5+20	DFT-64QAM	M+M	Outer_Full	21.1	21.51	38.45	PASS
DC_2A_n5A	15	5+20	DFT-256QAM	M+M	Inner_1RB_Left	18.49	18.9	38.45	PASS
DC_2A_n5A	15	5+20	DFT-256QAM	M+M	Inner_1RB_Right	18.68	19.09	38.45	PASS
DC_2A_n5A	15	5+20	DFT-256QAM	M+M	Outer_Full	19	19.41	38.45	PASS
DC_2A_n5A	15	5+20	DFT-PI2BPSK	M+H	Inner_1RB_Left	23.55	23.96	38.45	PASS
DC_2A_n5A	15	5+20	DFT-PI2BPSK	M+H	Inner_1RB_Right	23.72	24.13	38.45	PASS
DC_2A_n5A	15	5+20	DFT-PI2BPSK	M+H	Outer_Full	23.03	23.44	38.45	PASS
DC_2A_n5A	15	5+20	DFT-QPSK	M+H	Inner_1RB_Left	23.56	23.97	38.45	PASS
DC_2A_n5A	15	5+20	DFT-QPSK	M+H	Inner_1RB_Right	23.88	24.29	38.45	PASS
DC_2A_n5A	15	5+20	DFT-QPSK	M+H	Outer_Full	22.6	23.01	38.45	PASS
DC_2A_n5A	15	5+20	DFT-16QAM	M+H	Inner_1RB_Left	22.48	22.89	38.45	PASS
DC_2A_n5A	15	5+20	DFT-16QAM	M+H	Inner_1RB_Right	22.73	23.14	38.45	PASS
DC_2A_n5A	15	5+20	DFT-16QAM	M+H	Outer_Full	21.69	22.1	38.45	PASS
DC_2A_n5A	15	5+20	DFT-64QAM	M+H	Inner_1RB_Left	20.87	21.28	38.45	PASS
DC_2A_n5A	15	5+20	DFT-64QAM	M+H	Inner_1RB_Right	21.06	21.47	38.45	PASS
DC_2A_n5A	15	5+20	DFT-64QAM	M+H	Outer_Full	21.08	21.49	38.45	PASS
DC_2A_n5A	15	5+20	DFT-256QAM	M+H	Inner_1RB_Left	18.46	18.87	38.45	PASS



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DC_2A_n5A	15	5+20	DFT-256QAM	M+H	Inner_1RB_Right	18.65	19.06	38.45	PASS
DC_2A_n5A	15	5+20	DFT-256QAM	M+H	Outer_Full	19.16	19.57	38.45	PASS



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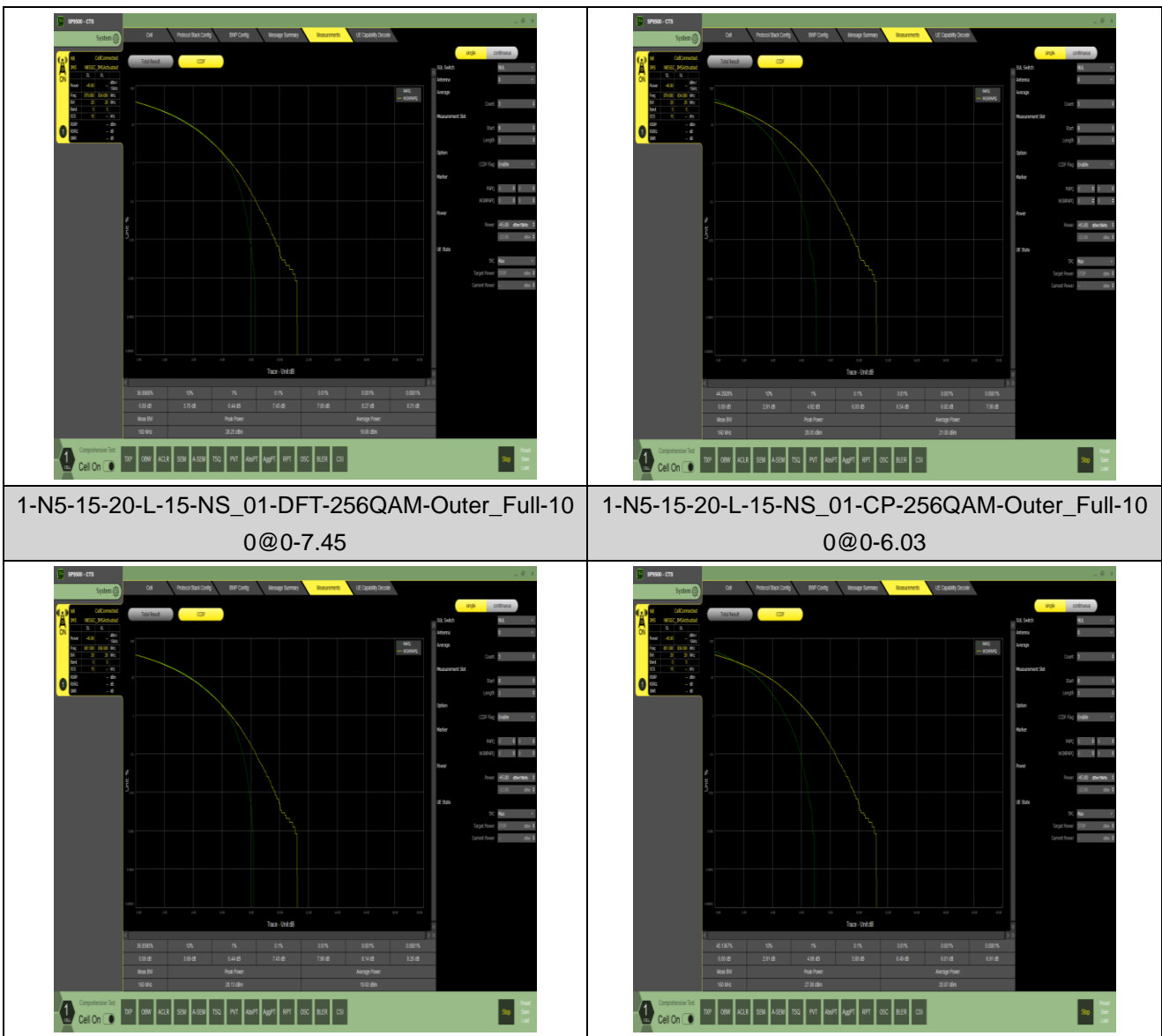
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## Peak-to-Average Ratio for SA

## Peak-to-Average Ratio(CCDF)

### Test Graphs



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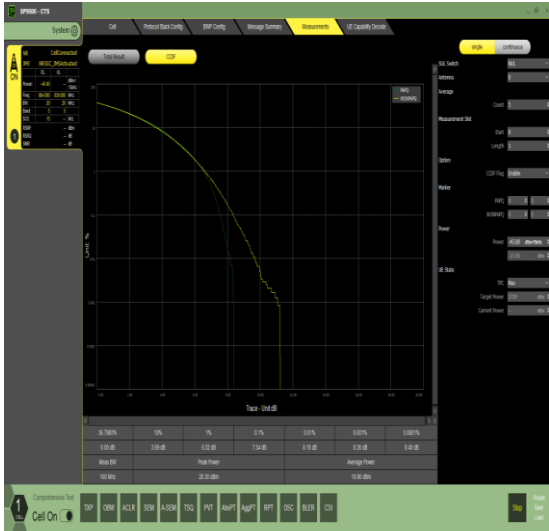
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1-N5-15-20-M-15-NS\_01-DFT-256QAM-Outer\_Full-1  
00@0-7.43

1-N5-15-20-M-15-NS\_01-CP-256QAM-Outer\_Full-1  
00@0-5.93



1-N5-15-20-H-15-NS\_01-DFT-256QAM-Outer\_Full-1  
00@0-7.54

1-N5-15-20-H-15-NS\_01-CP-256QAM-Outer\_Full-1  
00@0-5.99



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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
DC_2A_n5A	15	5	DFT-QPSK	M	Outer_Full	4.523	4.950	PASS
DC_2A_n5A	15	5	DFT-PI2BPSK	M	Outer_Full	4.507	4.920	PASS
DC_2A_n5A	15	5	DFT-16QAM	M	Outer_Full	4.499	4.910	PASS
DC_2A_n5A	15	5	DFT-64QAM	M	Outer_Full	4.514	4.930	PASS
DC_2A_n5A	15	5	DFT-256QAM	M	Outer_Full	4.499	4.920	PASS
DC_2A_n5A	15	5	CP-QPSK	M	Outer_Full	4.501	4.940	PASS
DC_2A_n5A	15	5	CP-16QAM	M	Outer_Full	4.496	4.950	PASS
DC_2A_n5A	15	5	CP-64QAM	M	Outer_Full	4.507	4.990	PASS
DC_2A_n5A	15	5	CP-256QAM	M	Outer_Full	4.483	4.970	PASS
DC_2A_n5A	15	10	DFT-QPSK	M	Outer_Full	8.906	9.380	PASS
DC_2A_n5A	15	10	DFT-PI2BPSK	M	Outer_Full	8.95	9.480	PASS
DC_2A_n5A	15	10	DFT-16QAM	M	Outer_Full	8.892	9.380	PASS
DC_2A_n5A	15	10	DFT-64QAM	M	Outer_Full	8.927	9.460	PASS
DC_2A_n5A	15	10	DFT-256QAM	M	Outer_Full	8.915	9.420	PASS
DC_2A_n5A	15	10	CP-QPSK	M	Outer_Full	9.287	9.820	PASS
DC_2A_n5A	15	10	CP-16QAM	M	Outer_Full	9.294	9.860	PASS
DC_2A_n5A	15	10	CP-64QAM	M	Outer_Full	9.292	9.820	PASS
DC_2A_n5A	15	10	CP-256QAM	M	Outer_Full	9.257	9.800	PASS
DC_2A_n5A	15	15	DFT-QPSK	M	Outer_Full	13.43	14.310	PASS
DC_2A_n5A	15	15	DFT-PI2BPSK	M	Outer_Full	13.448	14.340	PASS
DC_2A_n5A	15	15	DFT-16QAM	M	Outer_Full	13.418	14.340	PASS
DC_2A_n5A	15	15	DFT-64QAM	M	Outer_Full	13.451	14.310	PASS
DC_2A_n5A	15	15	DFT-256QAM	M	Outer_Full	13.431	14.280	PASS
DC_2A_n5A	15	15	CP-QPSK	M	Outer_Full	14.14	15.030	PASS
DC_2A_n5A	15	15	CP-16QAM	M	Outer_Full	14.162	15.090	PASS
DC_2A_n5A	15	15	CP-64QAM	M	Outer_Full	14.155	15.060	PASS
DC_2A_n5A	15	15	CP-256QAM	M	Outer_Full	14.132	15.030	PASS
DC_2A_n5A	15	20	DFT-QPSK	M	Outer_Full	17.889	18.840	PASS
DC_2A_n5A	15	20	DFT-PI2BPSK	M	Outer_Full	17.895	18.880	PASS
DC_2A_n5A	15	20	DFT-16QAM	M	Outer_Full	17.853	18.760	PASS



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DC_2A_n5A	15	20	DFT-64QAM	M	Outer_Full	17.889	18.880	PASS
DC_2A_n5A	15	20	DFT-256QAM	M	Outer_Full	17.844	18.800	PASS
DC_2A_n5A	15	20	CP-QPSK	M	Outer_Full	18.963	19.960	PASS
DC_2A_n5A	15	20	CP-16QAM	M	Outer_Full	18.94	20.080	PASS
DC_2A_n5A	15	20	CP-64QAM	M	Outer_Full	18.977	19.960	PASS
DC_2A_n5A	15	20	CP-256QAM	M	Outer_Full	18.891	19.920	PASS



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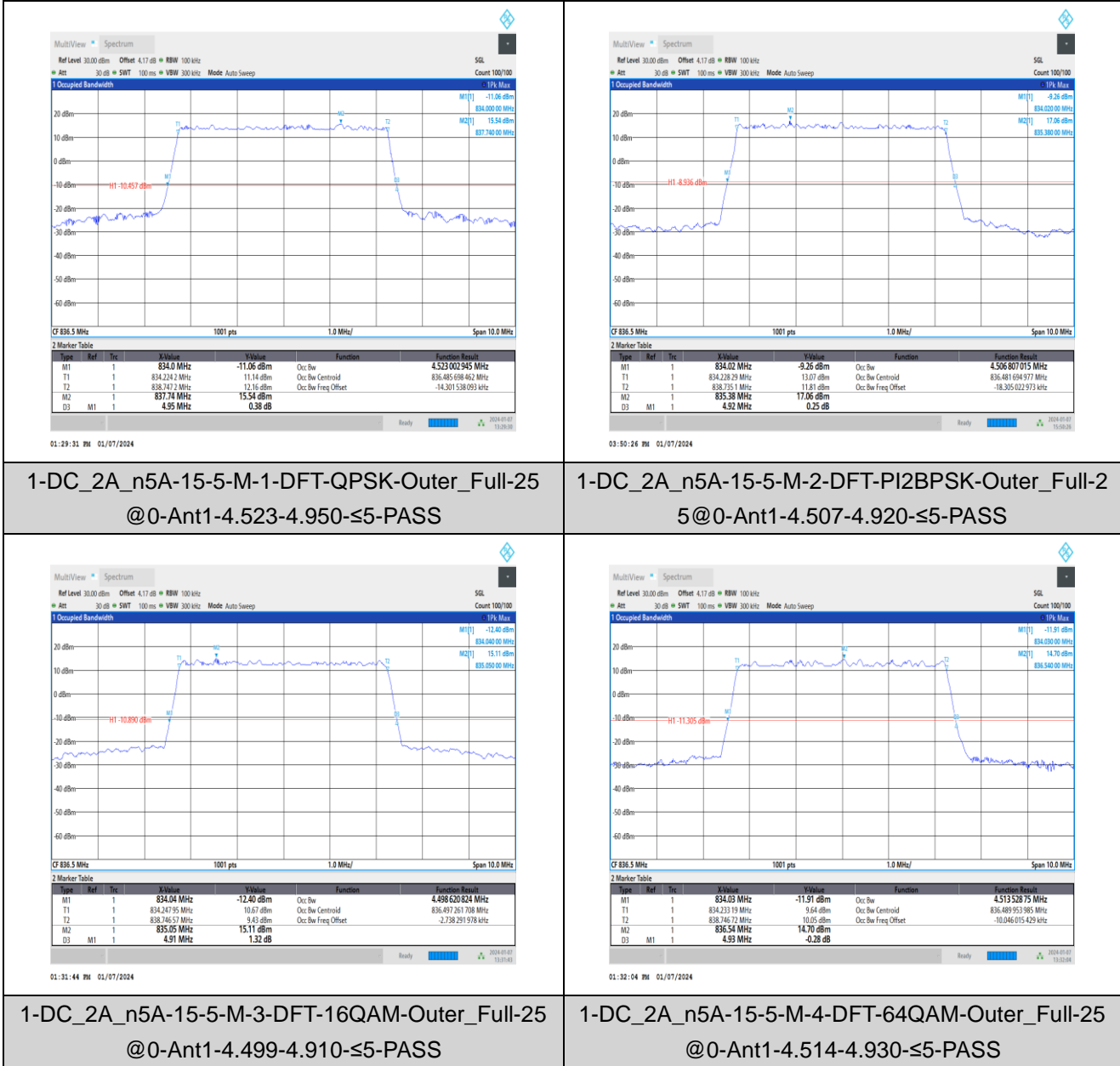
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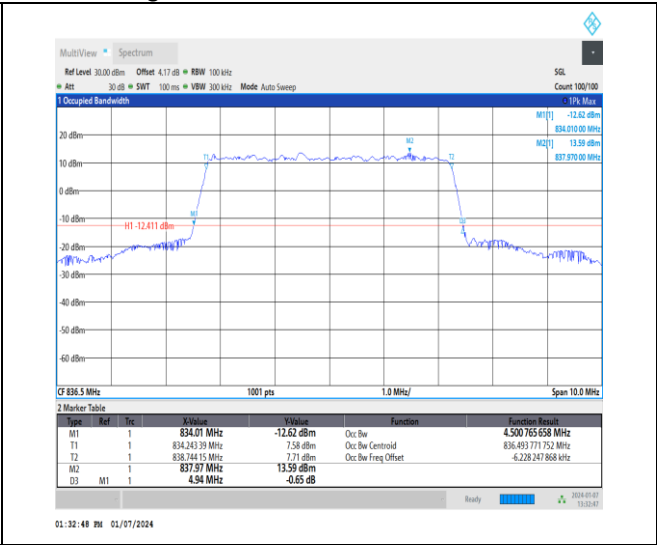
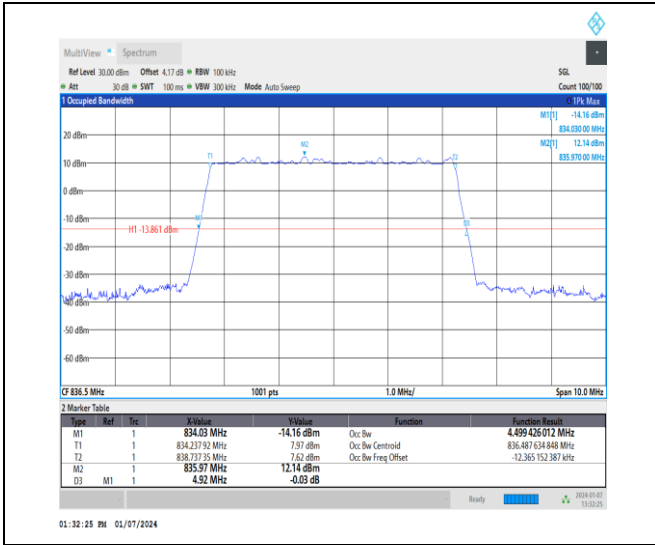
Test Graphs



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1-DC\_2A\_n5A-15-5-M-5-DFT-256QAM-Outer\_Full-25@0-Ant1-4.499-4.920-≤5-PASS

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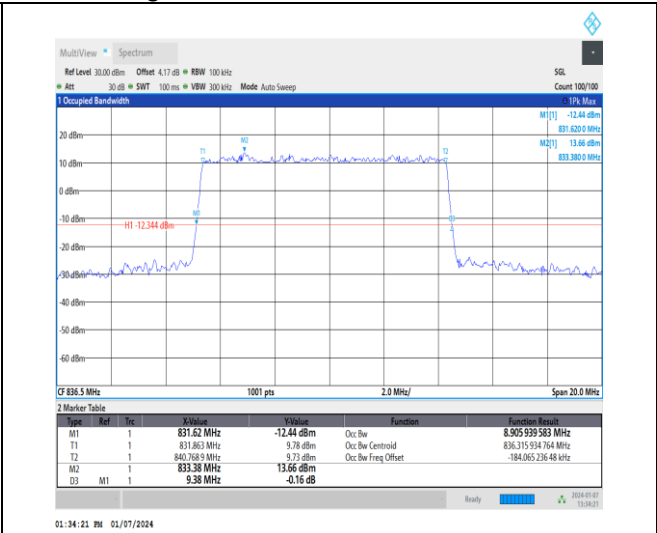
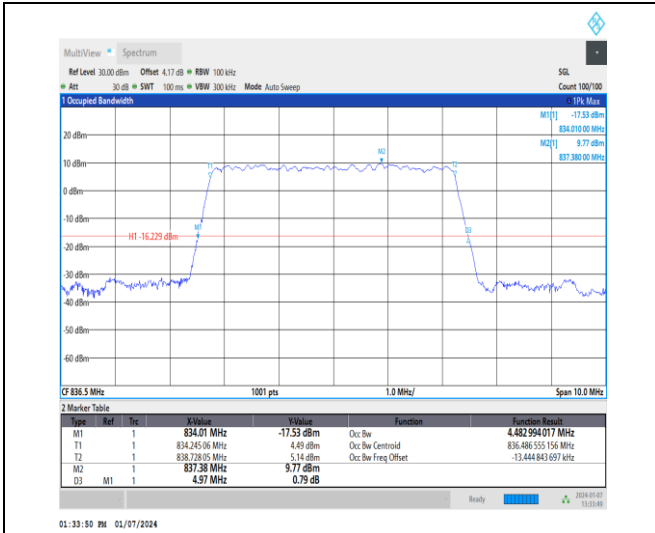
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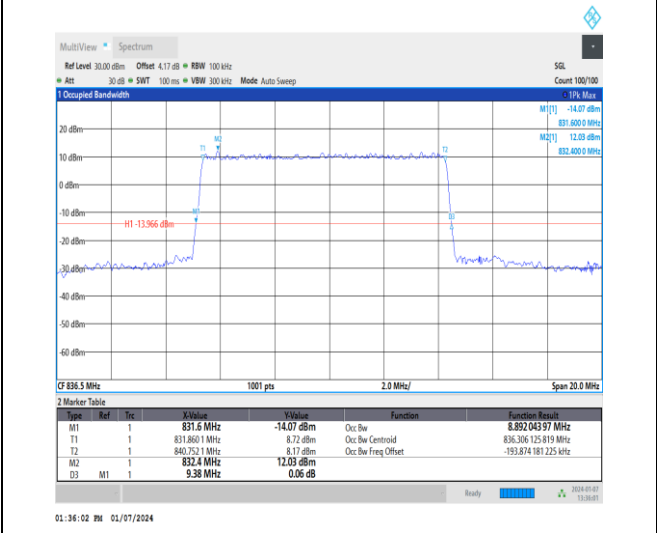
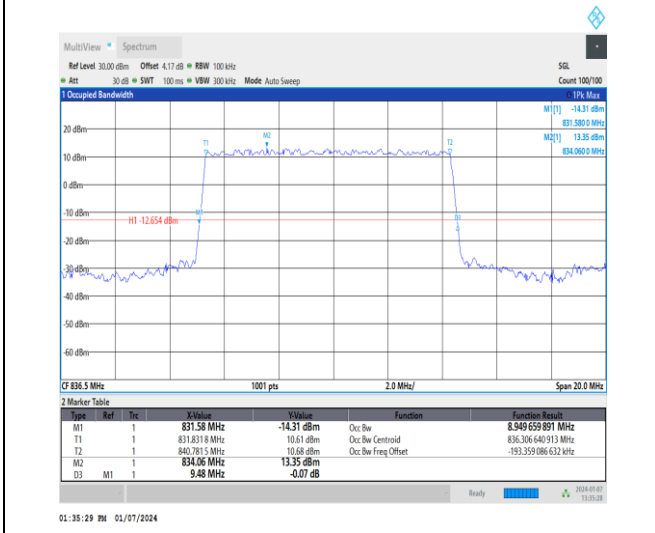
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1-DC\_2A\_n5A-15-5-M-9-CP-256QAM-Outer\_Full-25 @0-Ant1-4.483-4.970-≤5-PASS

1-DC\_2A\_n5A-15-10-M-1-DFT-QPSK-Outer\_Full-50 @0-Ant1-8.906-9.380-≤10-PASS



1-DC\_2A\_n5A-15-10-M-2-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-8.95-9.480-≤10-PASS

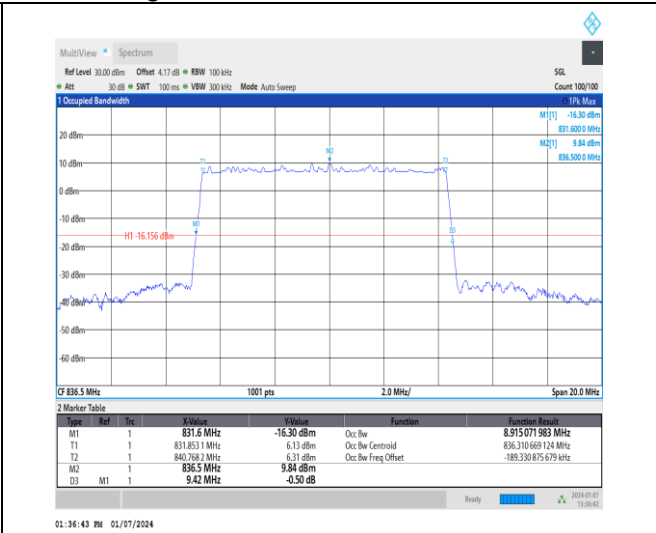
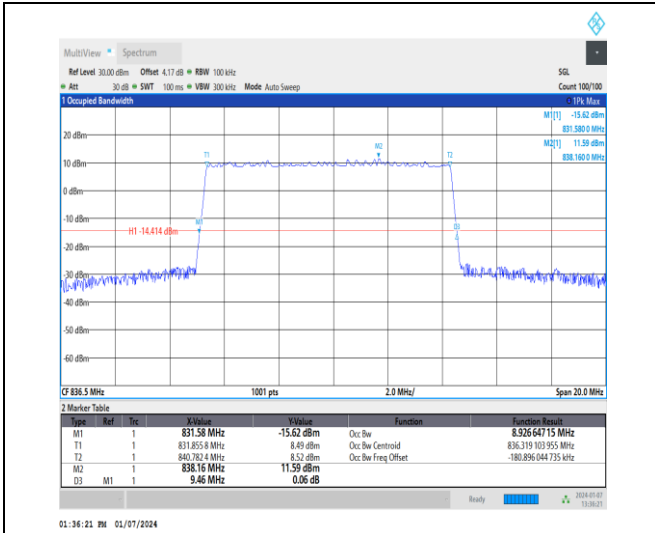
1-DC\_2A\_n5A-15-10-M-3-DFT-16QAM-Outer\_Full-5 @0-Ant1-8.892-9.380-≤10-PASS



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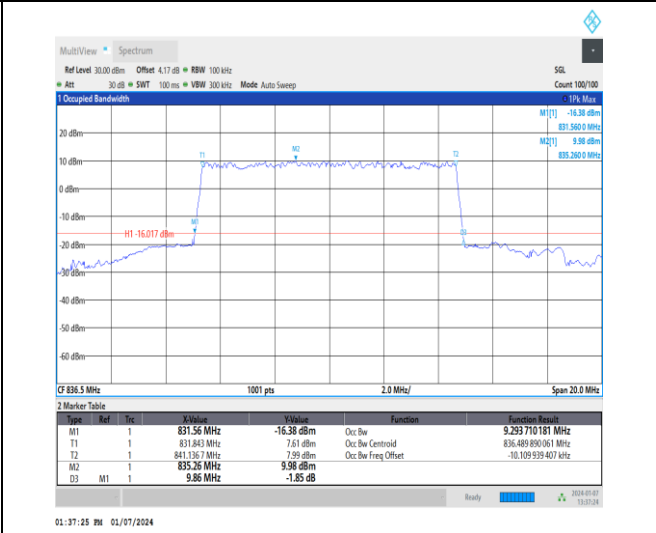
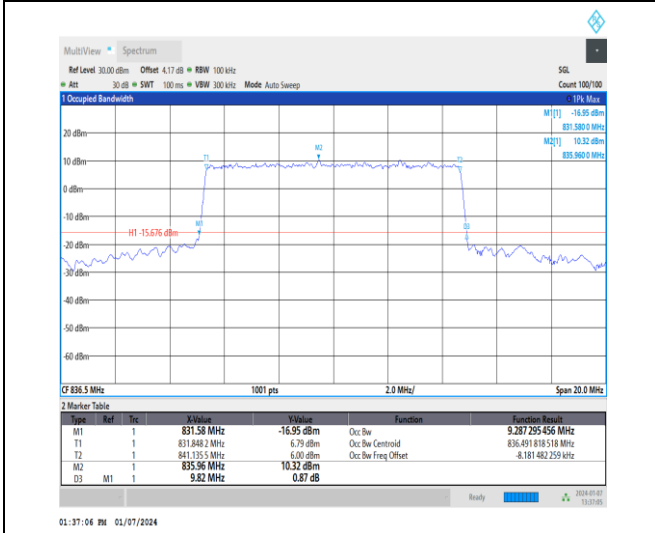
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1-DC\_2A\_n5A-15-10-M-4-DFT-64QAM-Outer\_Full-50@0-Ant1-8.927-9.460-≤10-PASS

1-DC\_2A\_n5A-15-10-M-5-DFT-256QAM-Outer\_Full-50@0-Ant1-8.915-9.420-≤10-PASS



1-DC\_2A\_n5A-15-10-M-6-CP-QPSK-Outer\_Full-52@0-Ant1-9.287-9.820-≤10-PASS

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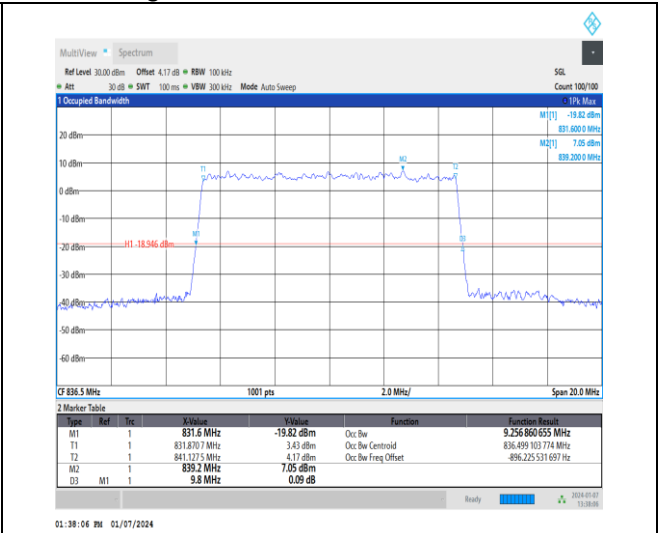
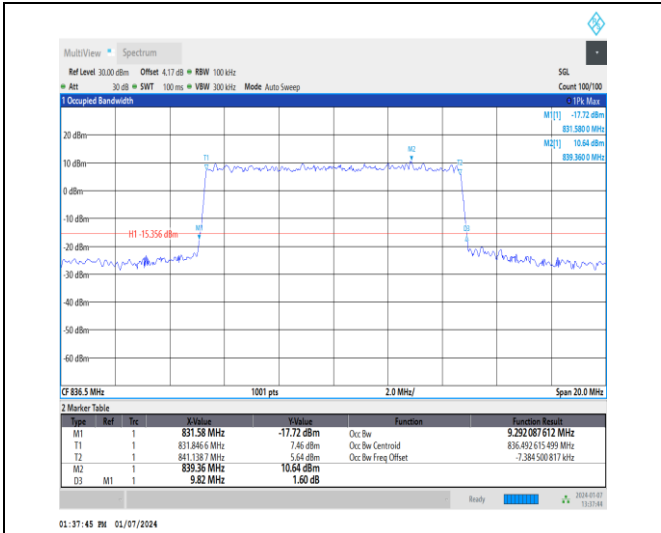
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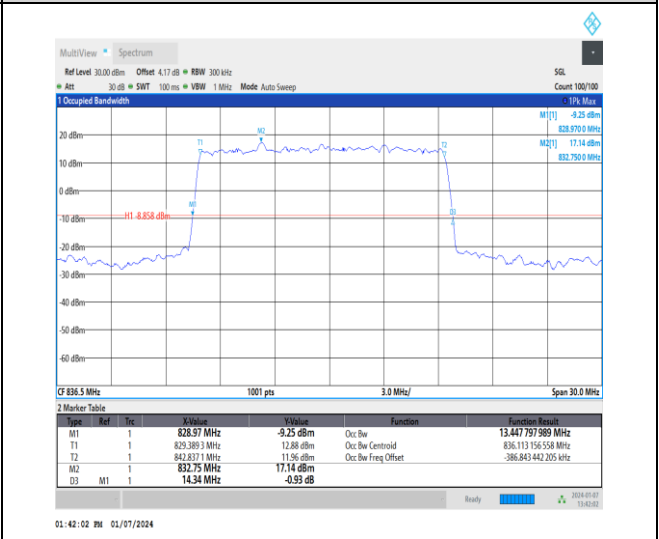
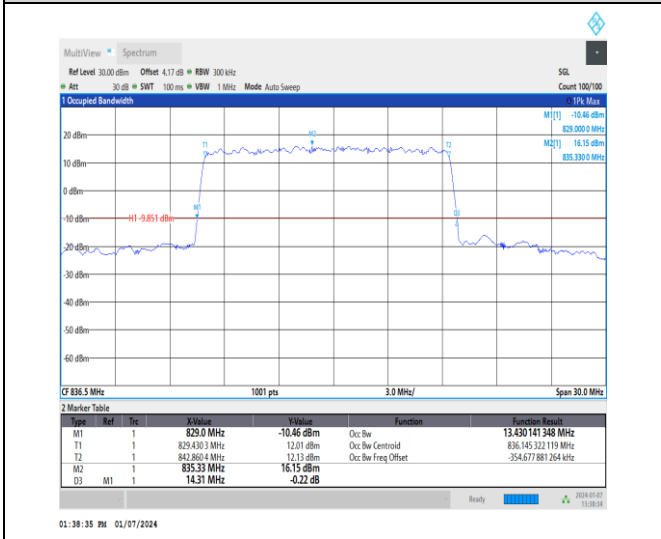
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1-DC\_2A\_n5A-15-10-M-8-CP-64QAM-Outer\_Full-52 @0-Ant1-9.292-9.820-≤10-PASS

1-DC\_2A\_n5A-15-10-M-9-CP-256QAM-Outer\_Full-5 2@0-Ant1-9.257-9.800-≤10-PASS



1-DC\_2A\_n5A-15-15-M-1-DFT-QPSK-Outer\_Full-75 @0-Ant1-13.43-14.310-≤15-PASS

1-DC\_2A\_n5A-15-15-M-2-DFT-PI2BPSK-Outer\_Full-75@0-Ant1-13.448-14.340-≤15-PASS

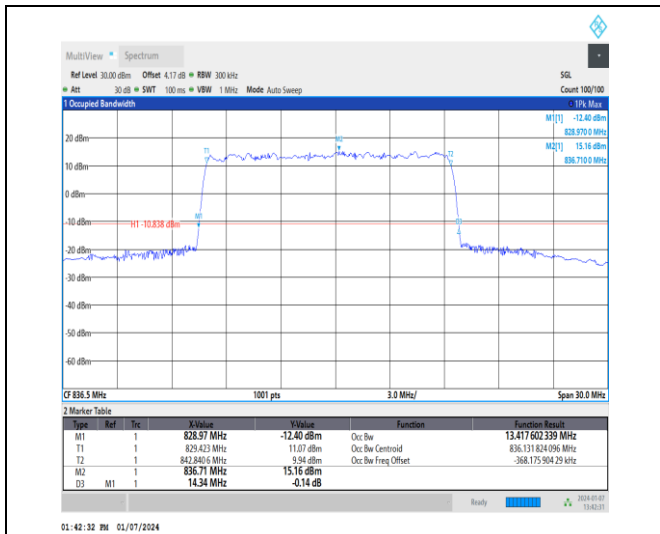


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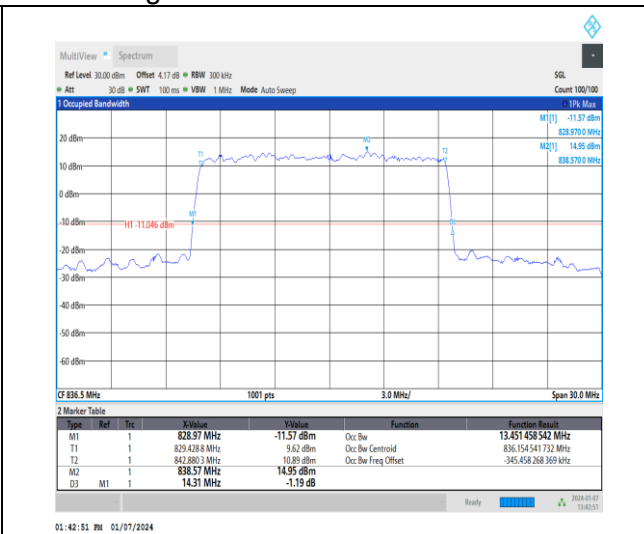
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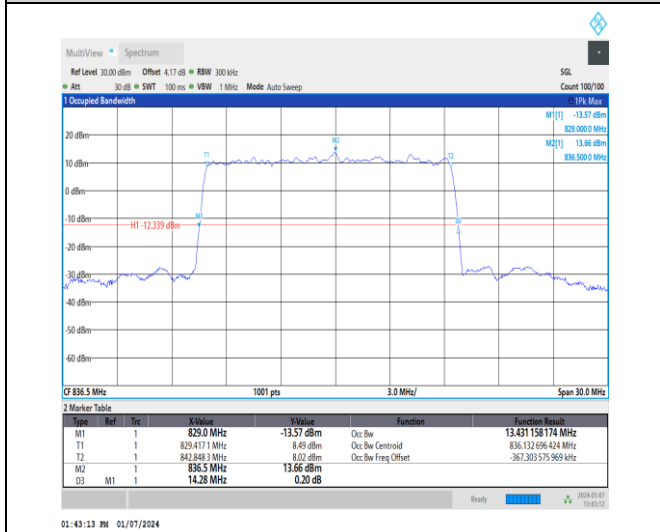




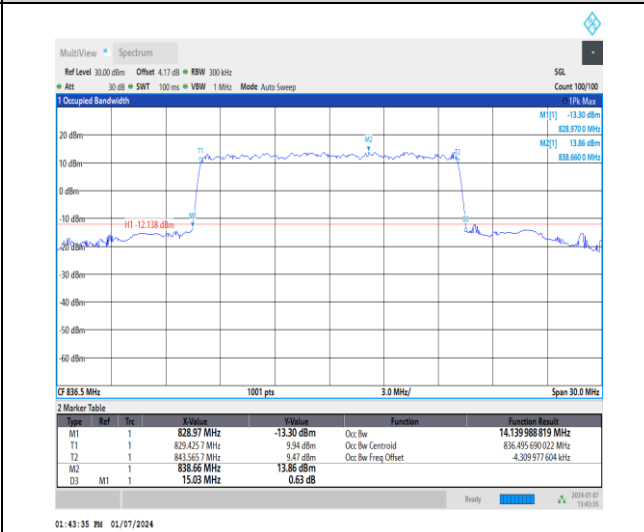
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 5@0-Ant1-13.418-14.340-≤15-PASS



1-DC\_2A\_n5A-15-15-M-4-DFT-64QAM-Outer\_Full-7  
 5@0-Ant1-13.451-14.310-≤15-PASS



1-DC\_2A\_n5A-15-15-M-5-DFT-256QAM-Outer\_Full-75  
 75@0-Ant1-13.431-14.280-≤15-PASS



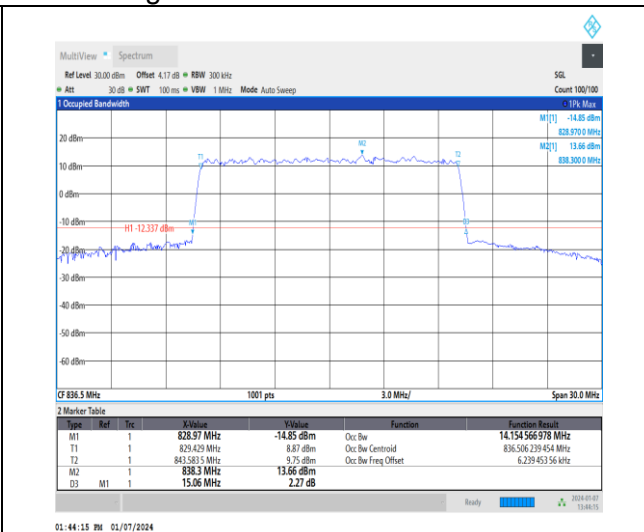
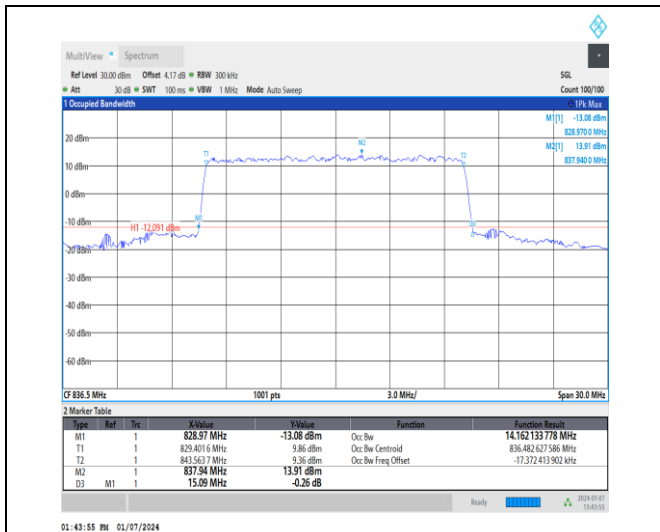
1-DC\_2A\_n5A-15-15-M-6-CP-QPSK-Outer\_Full-79  
 @0-Ant1-14.14-15.030-≤15-PASS



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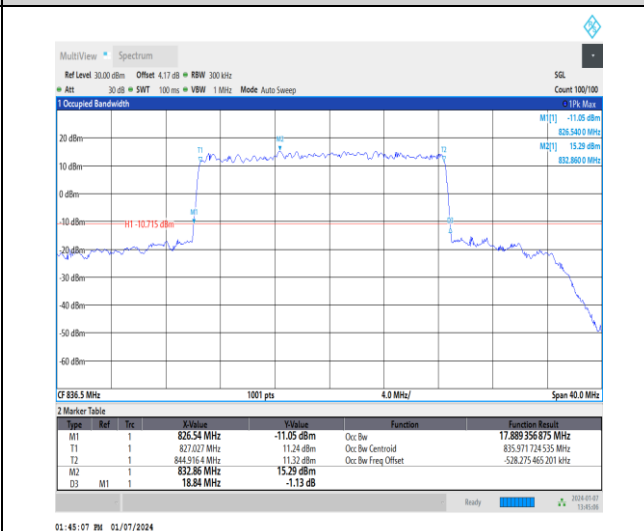
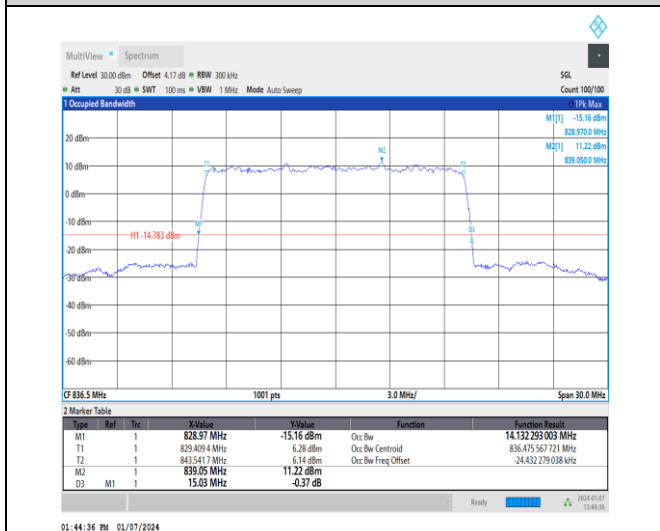
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1-DC\_2A\_n5A-15-15-M-7-CP-16QAM-Outer\_Full-79 @0-Ant1-14.162-15.090-≤15-PASS

1-DC\_2A\_n5A-15-15-M-8-CP-64QAM-Outer\_Full-79 @0-Ant1-14.155-15.060-≤15-PASS



1-DC\_2A\_n5A-15-15-M-9-CP-256QAM-Outer\_Full-7 @0-Ant1-14.132-15.030-≤15-PASS

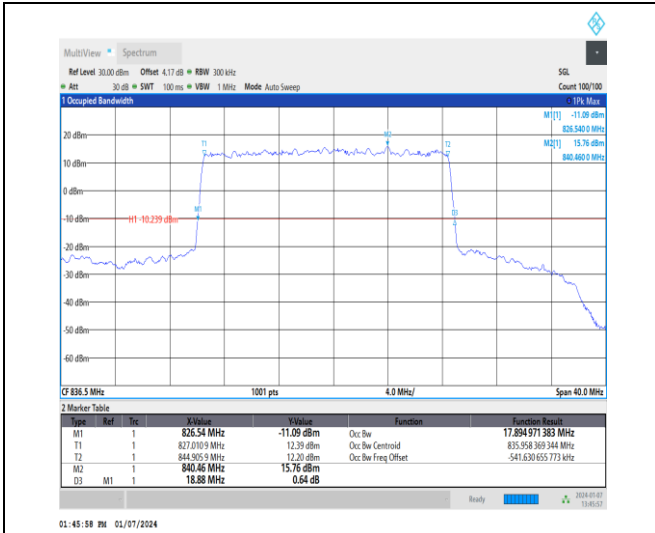
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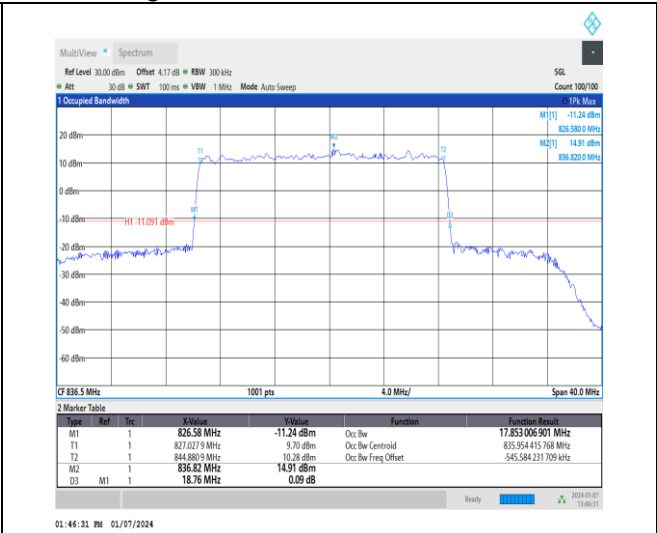
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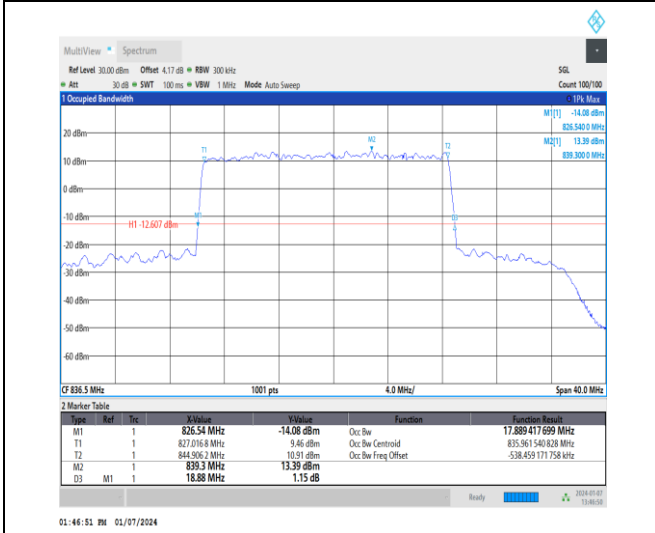
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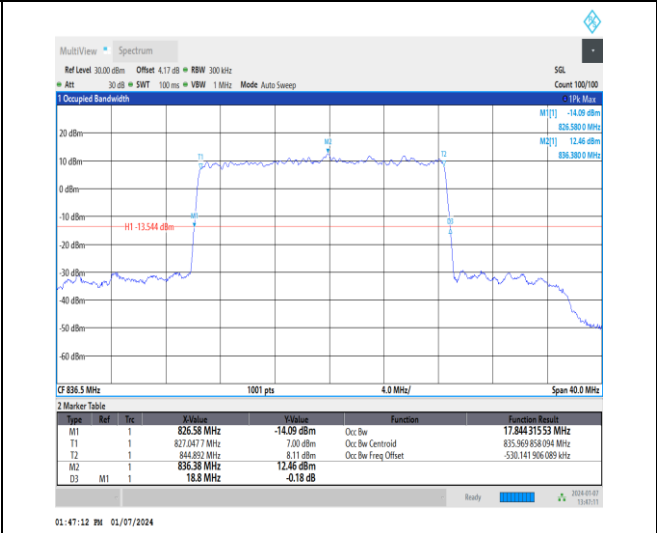
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1-DC\_2A\_n5A-15-20-M-4-DFT-64QAM-Outer\_Full-100@0-Ant1-17.889-18.880-≤20-PASS



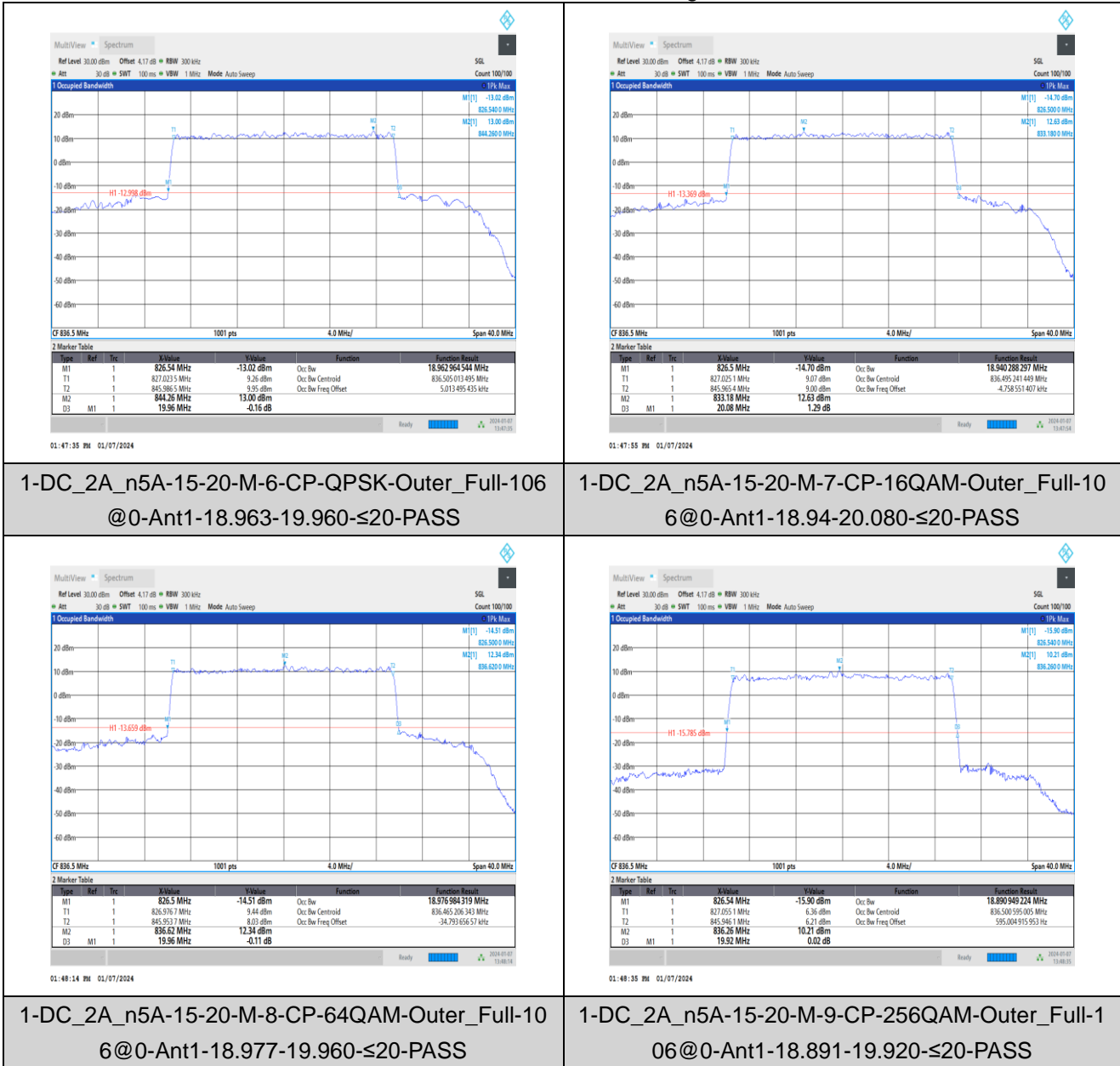
1-DC\_2A\_n5A-15-20-M-5-DFT-256QAM-Outer\_Full-100@0-Ant1-17.844-18.800-≤20-PASS



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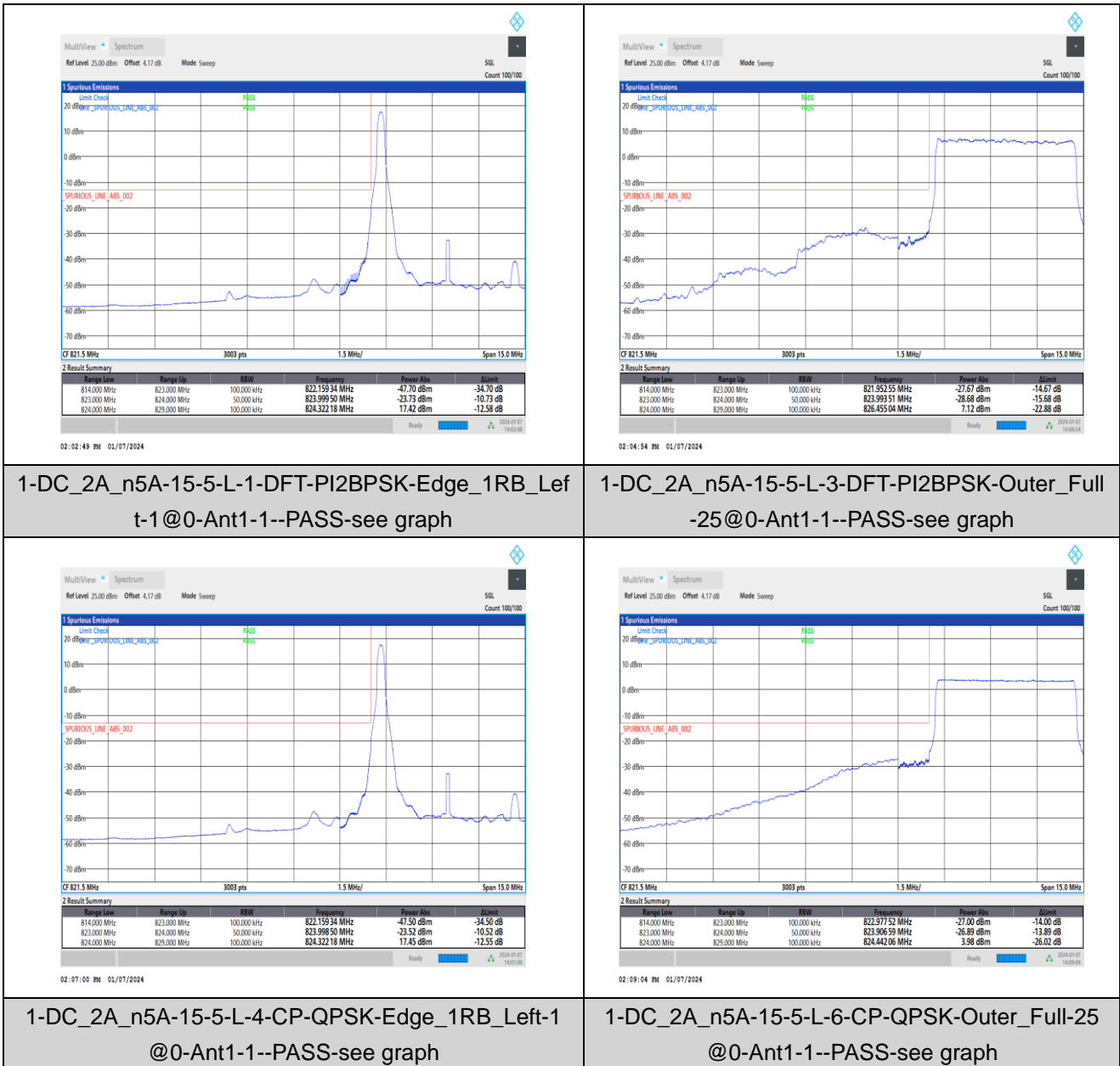
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## Band Edge for SA

### Test Graphs



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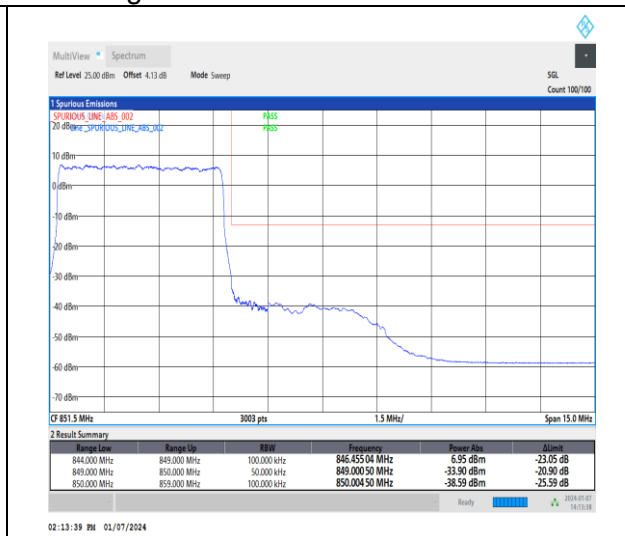
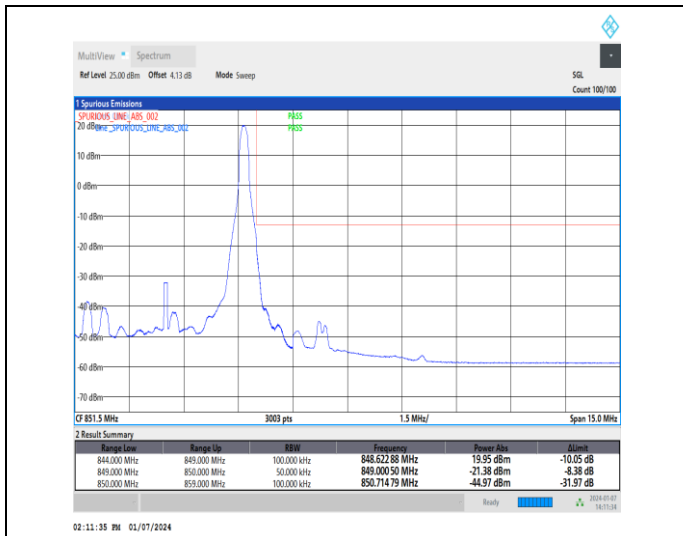
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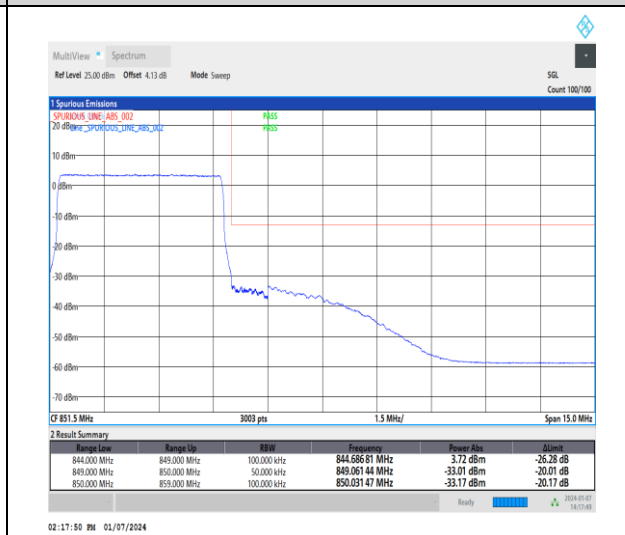
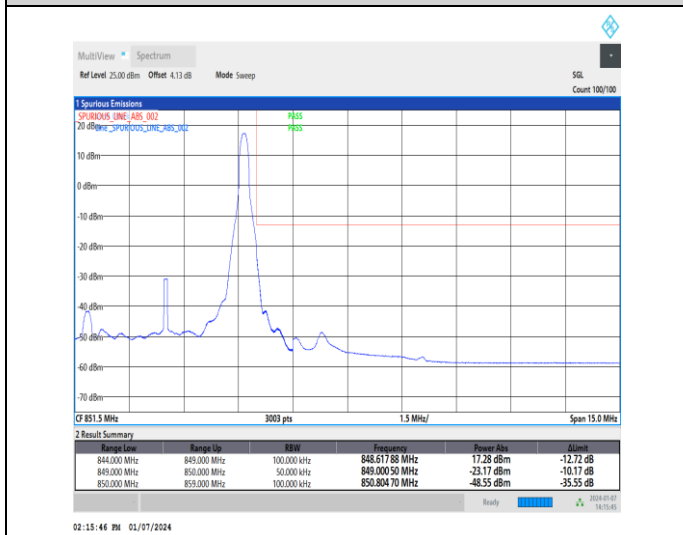
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1-DC\_2A\_n5A-15-5-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@24-Ant1-1--PASS-see graph

1-DC\_2A\_n5A-15-5-H-3-DFT-PI2BPSK-Outer\_Full-25@0-Ant1-1--PASS-see graph



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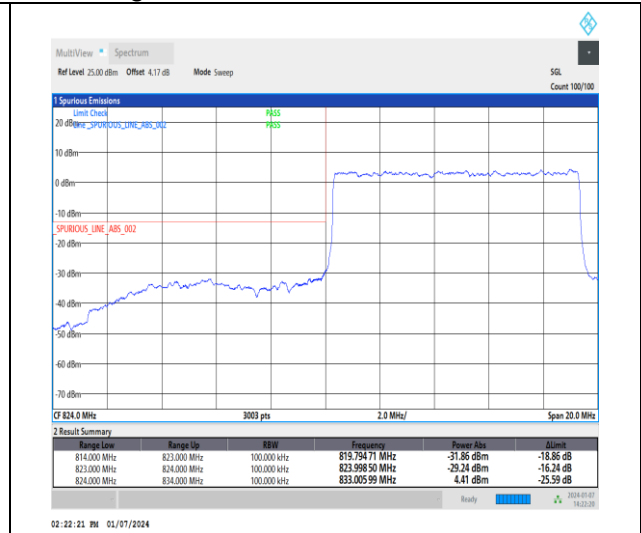
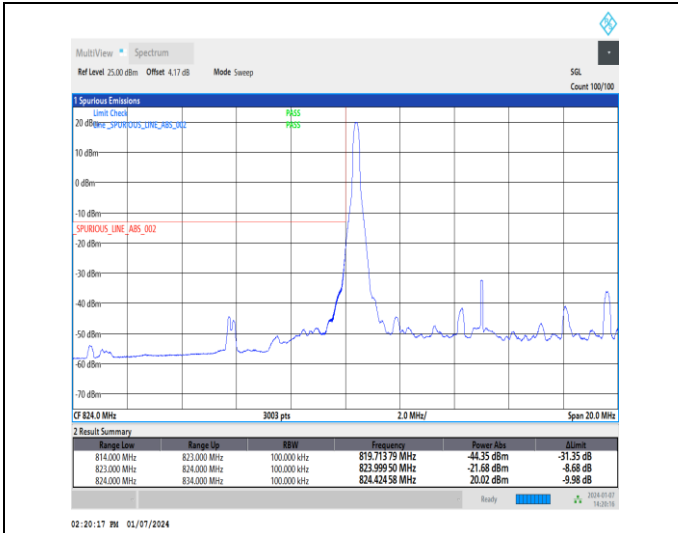
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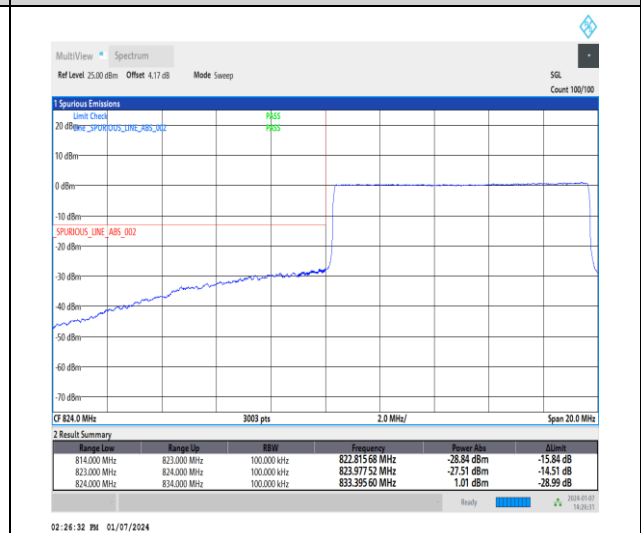
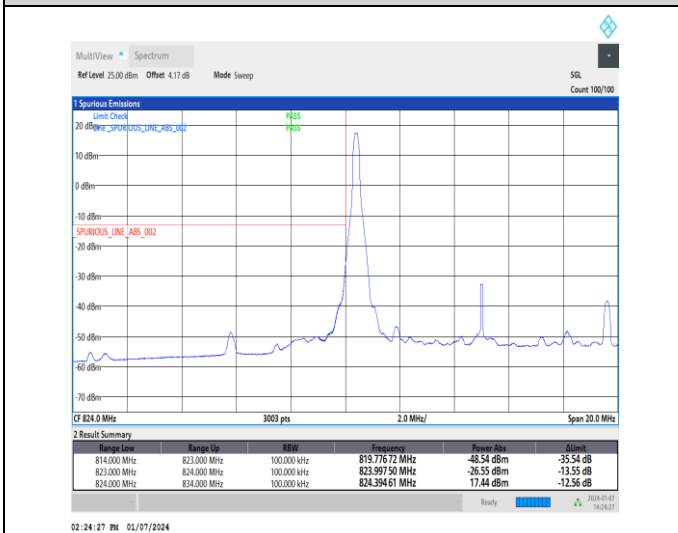
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1-DC\_2A\_n5A-15-10-L-1-DFT-PI2BPSK-Edge\_1RB\_L eft-1@0-Ant1-1--PASS-see graph

1-DC\_2A\_n5A-15-10-L-3-DFT-PI2BPSK-Outer\_Fu ll-50@0-Ant1-1--PASS-see graph



1-DC\_2A\_n5A-15-10-L-4-CP-QPSK-Edge\_1RB\_Left-1 @0-Ant1-1--PASS-see graph

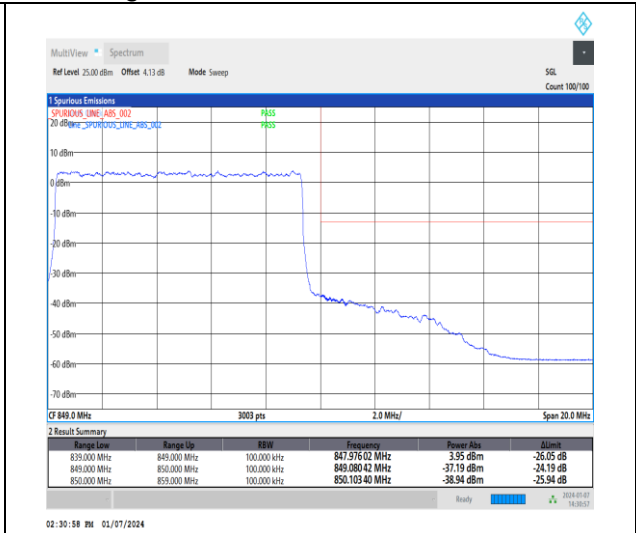
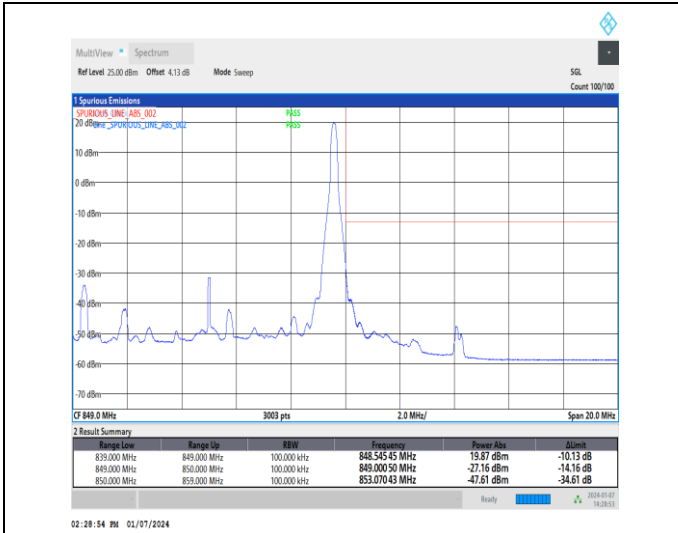
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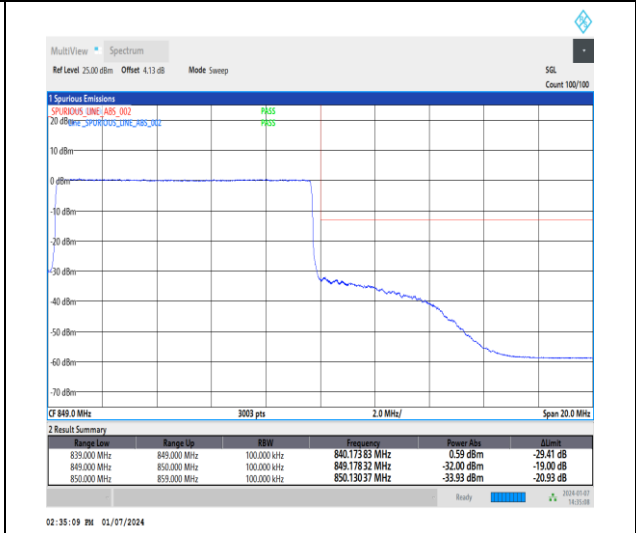
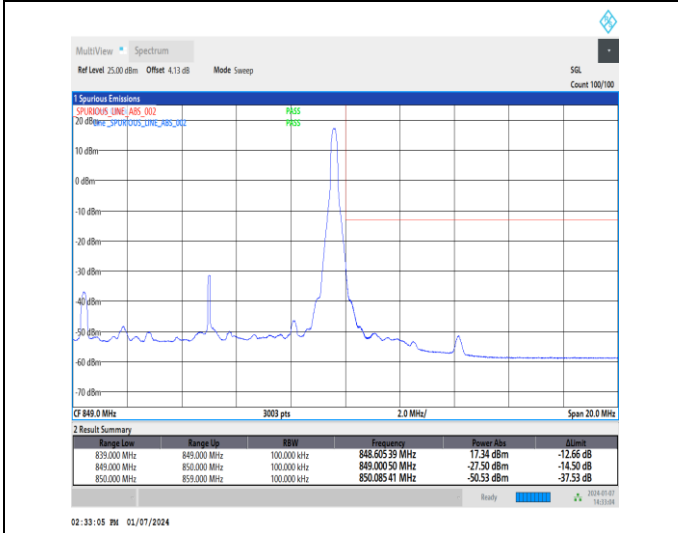
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1-DC\_2A\_n5A-15-10-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@51-Ant1-1--PASS-see graph

1-DC\_2A\_n5A-15-10-H-3-DFT-PI2BPSK-Outer\_FuII-50@0-Ant1-1--PASS-see graph



1-DC\_2A\_n5A-15-10-H-5-CP-QPSK-Edge\_1RB\_Right-1@51-Ant1-1--PASS-see graph

1-DC\_2A\_n5A-15-10-H-6-CP-QPSK-Outer\_Full-52@0-Ant1-1--PASS-see graph

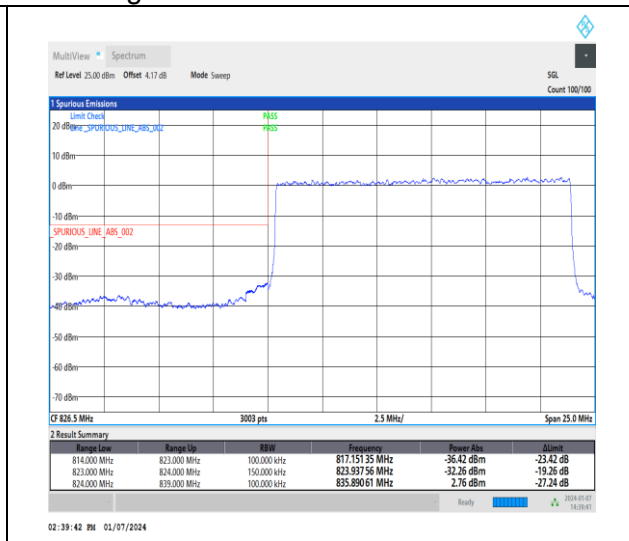
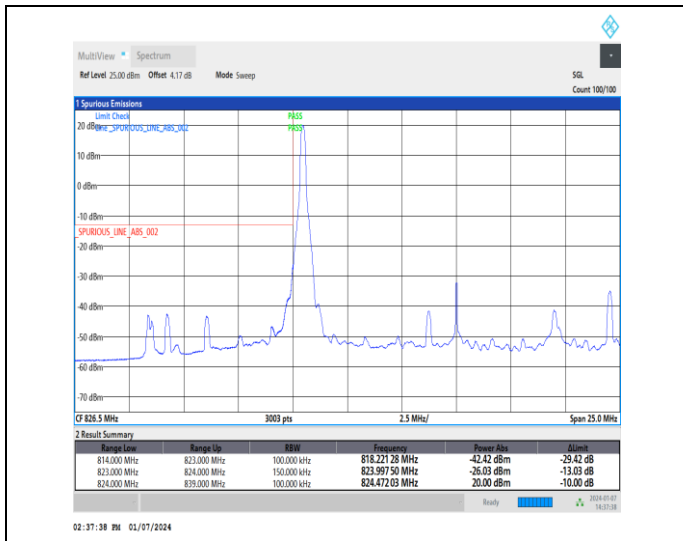


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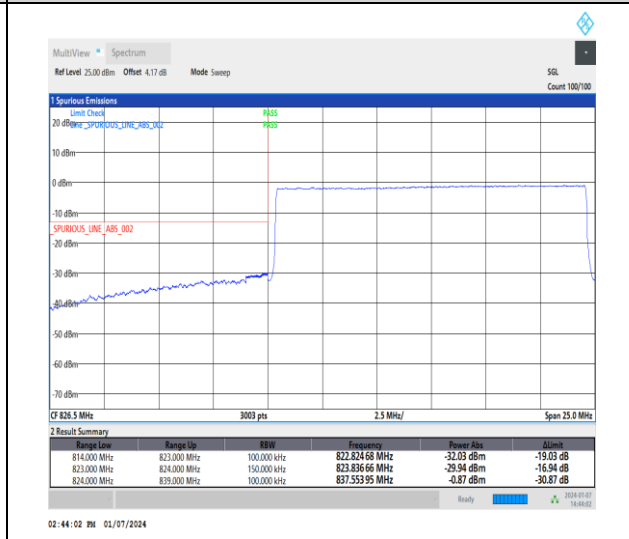
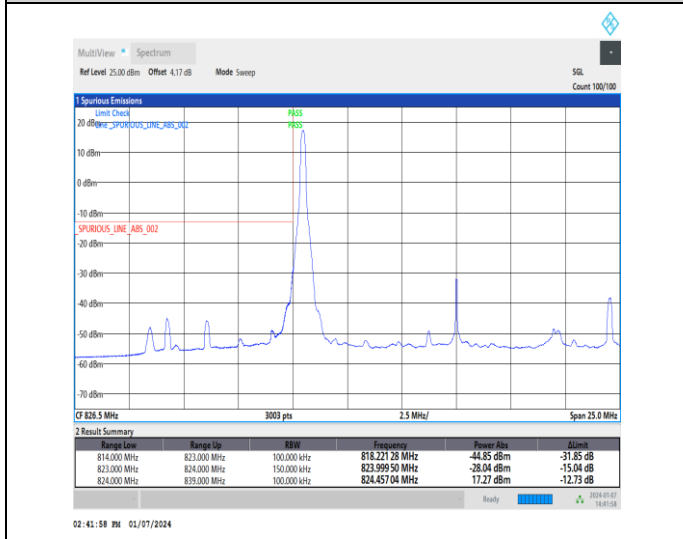
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1-DC\_2A\_n5A-15-15-L-1-DFT-PI2BPSK-Edge\_1RB\_L eft-1@0-Ant1-1--PASS-see graph

1-DC\_2A\_n5A-15-15-L-3-DFT-PI2BPSK-Outer\_Fu ll-75@0-Ant1-1--PASS-see graph



1-DC\_2A\_n5A-15-15-L-4-CP-QPSK-Edge\_1RB\_Left-1 @0-Ant1-1--PASS-see graph

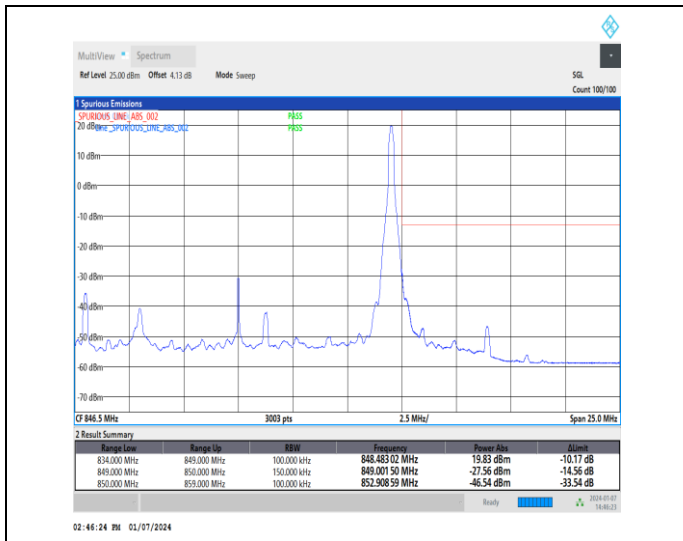
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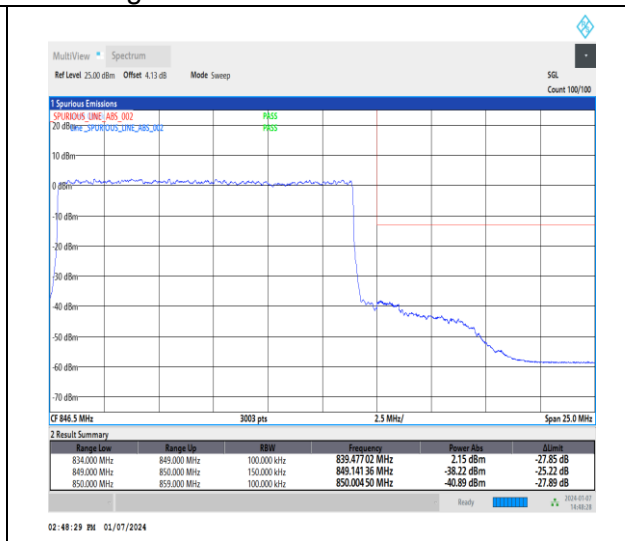
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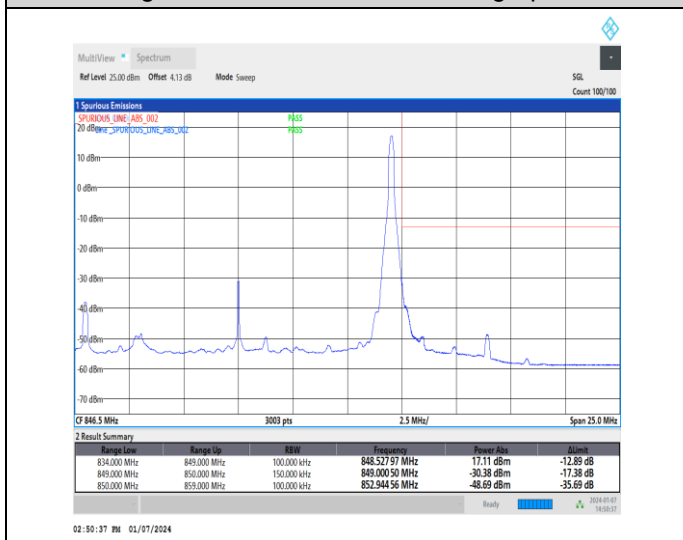
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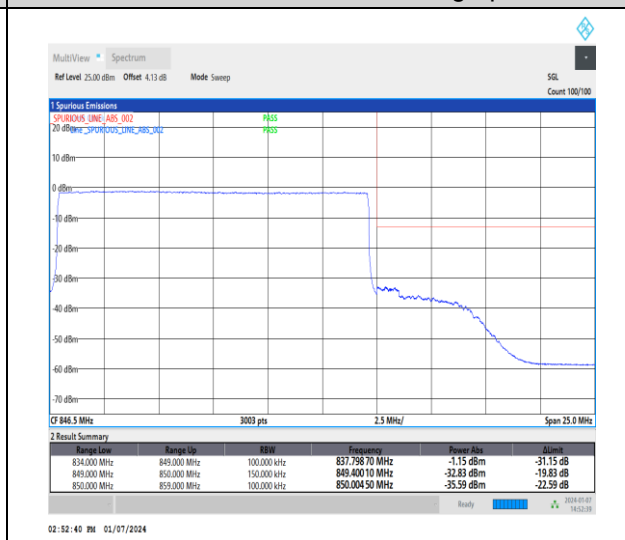
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1-DC\_2A\_n5A-15-15-H-3-DFT-PI2BPSK-Outer\_Fu ll-75@0-Ant1-1--PASS-see graph



1-DC\_2A\_n5A-15-15-H-5-CP-QPSK-Edge\_1RB\_R ight-1@78-Ant1-1--PASS-see graph



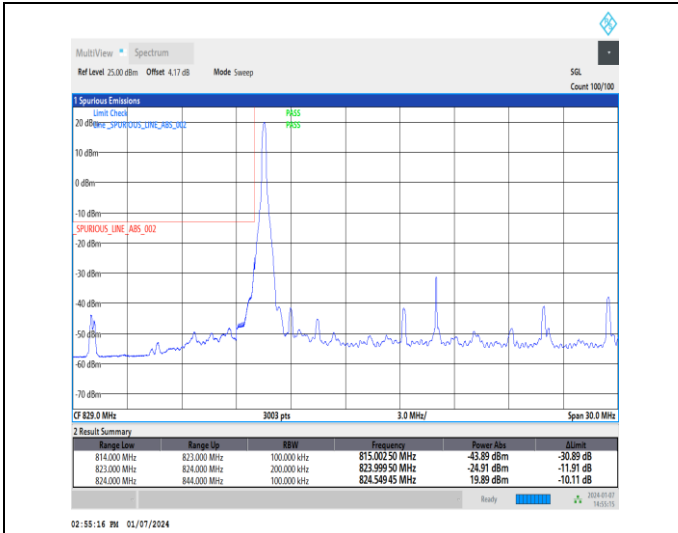
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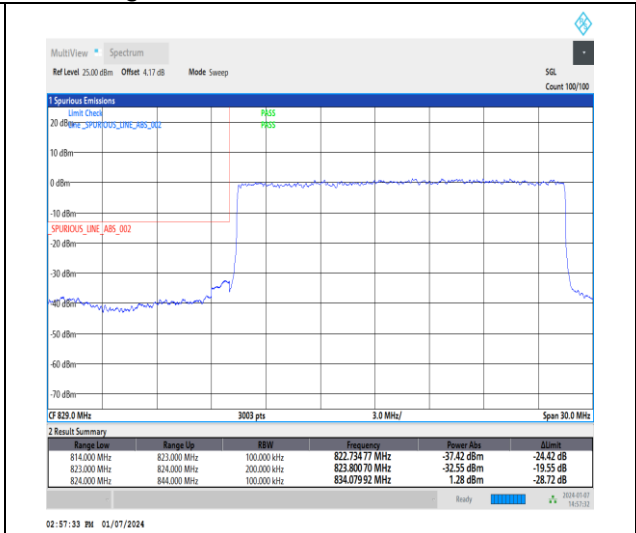
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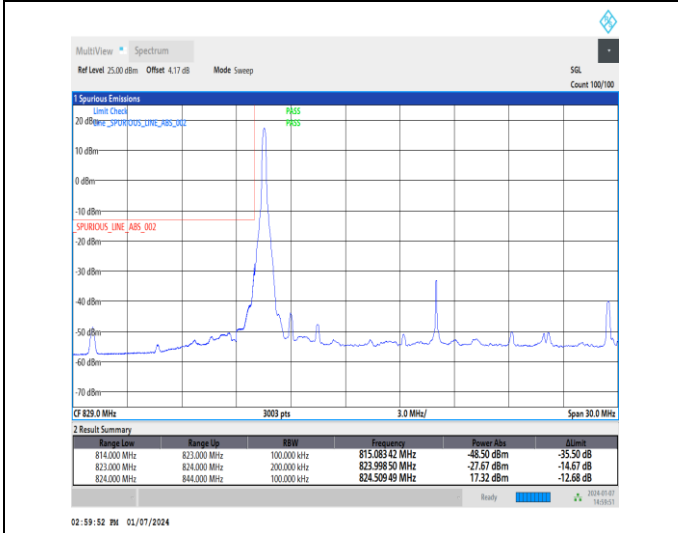
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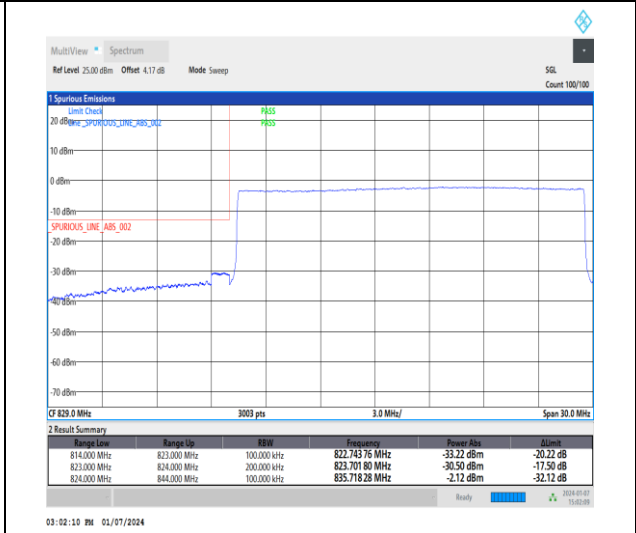
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1-DC\_2A\_n5A-15-20-L-4-CP-QPSK-Edge\_1RB\_Left-1 @0-Ant1-1--PASS-see graph



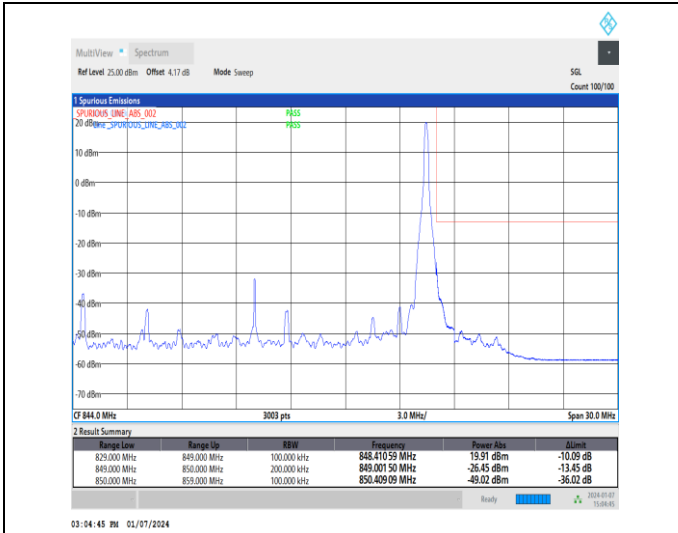
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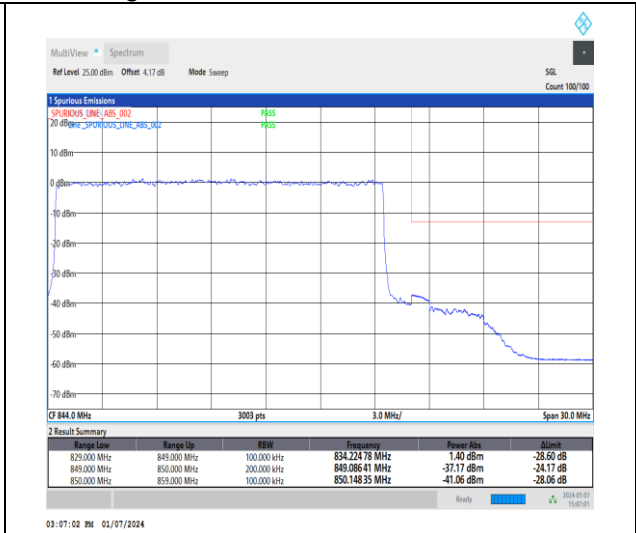
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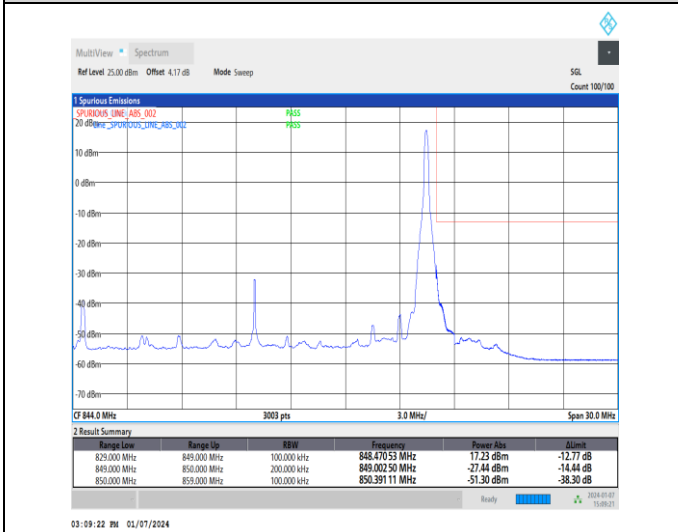
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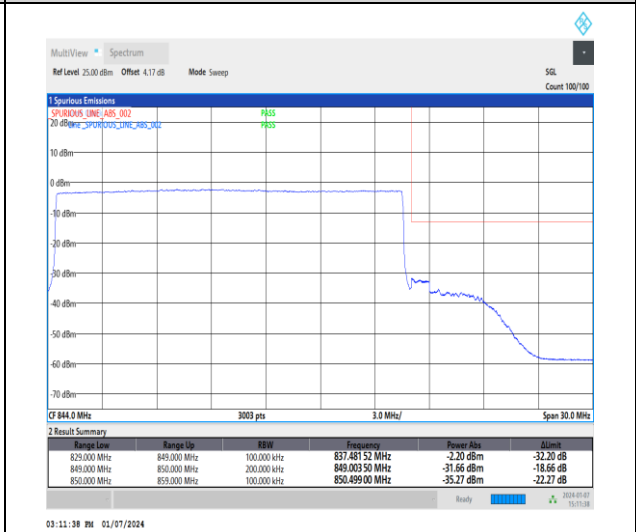
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1-DC\_2A\_n5A-15-20-H-5-CP-QPSK-Edge\_1RB\_Right-1@105-Ant1-1--PASS-see graph



1-DC\_2A\_n5A-15-20-H-6-CP-QPSK-Outer\_Full-10@0-Ant1-1--PASS-see graph



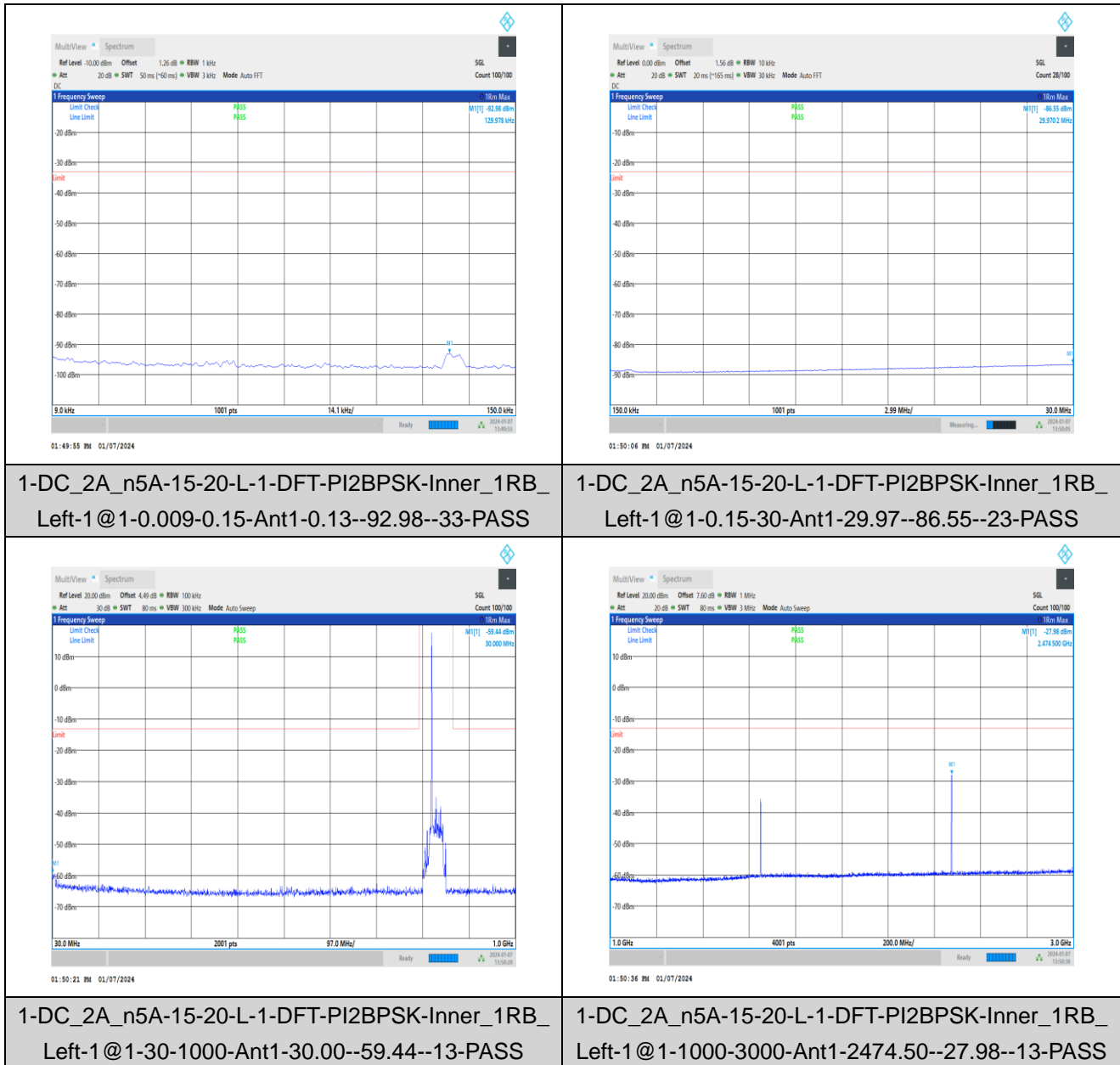
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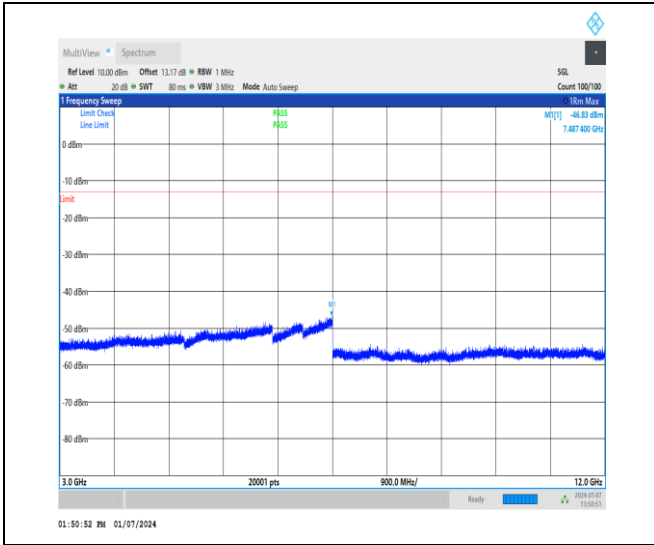
### Test Graphs



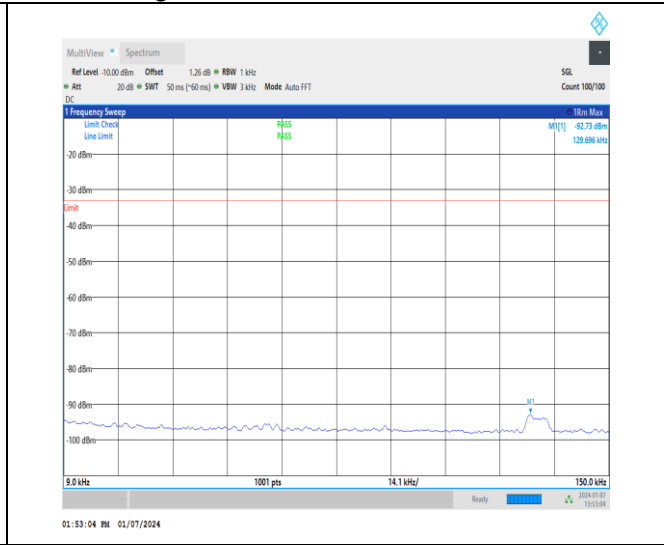
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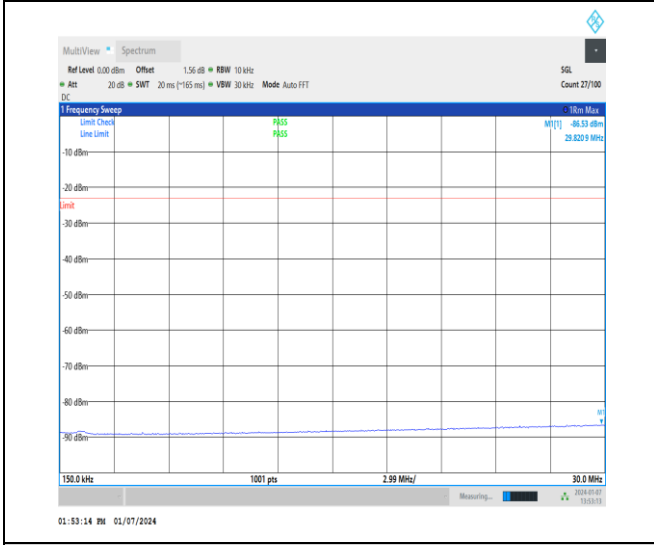
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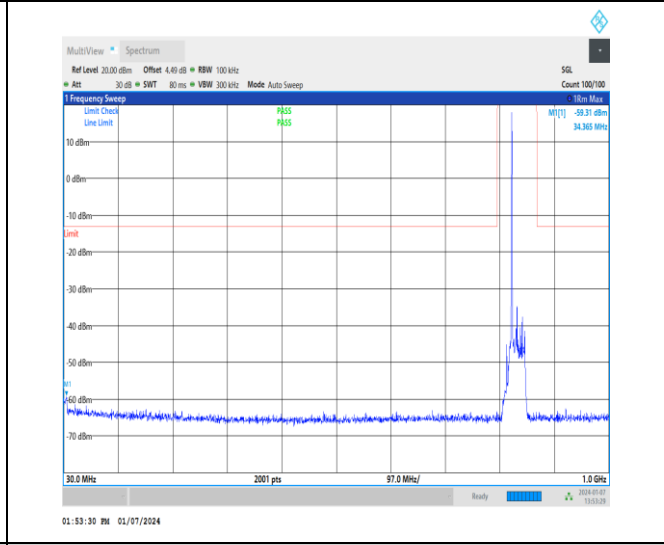
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1-DC\_2A\_n5A-15-20-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-Ant1-0.13--92.73--33-PASS



1-DC\_2A\_n5A-15-20-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant1-29.82--86.53--23-PASS



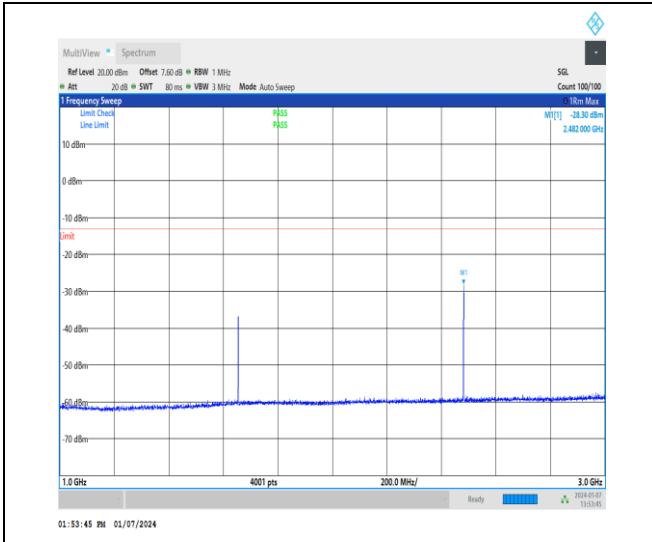
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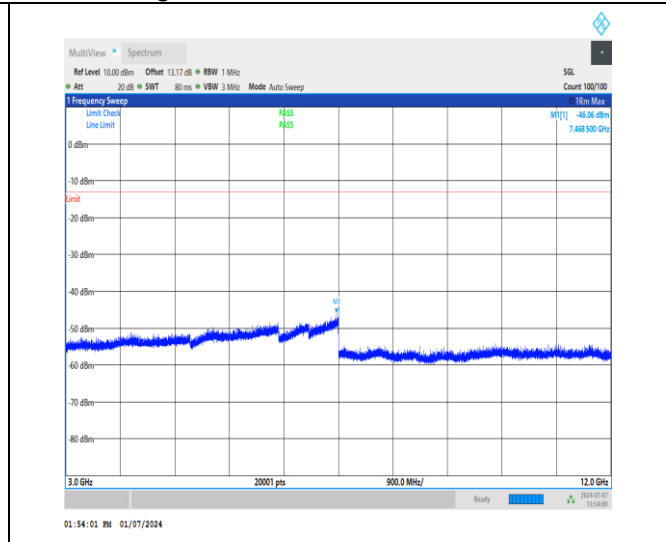
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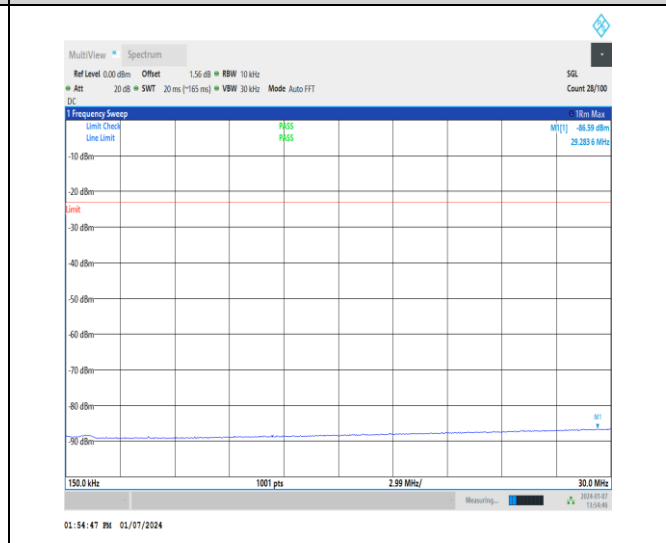
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S



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SS



1-DC\_2A\_n5A-15-20-H-1-DFT-PI2BPSK-Inner\_1RB  
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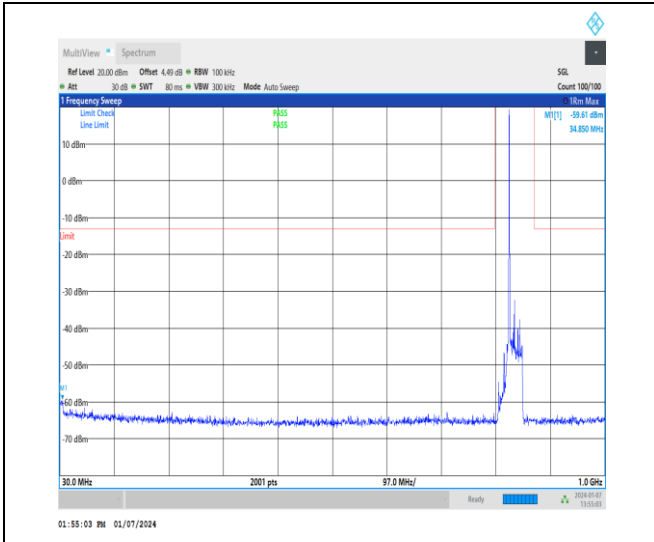
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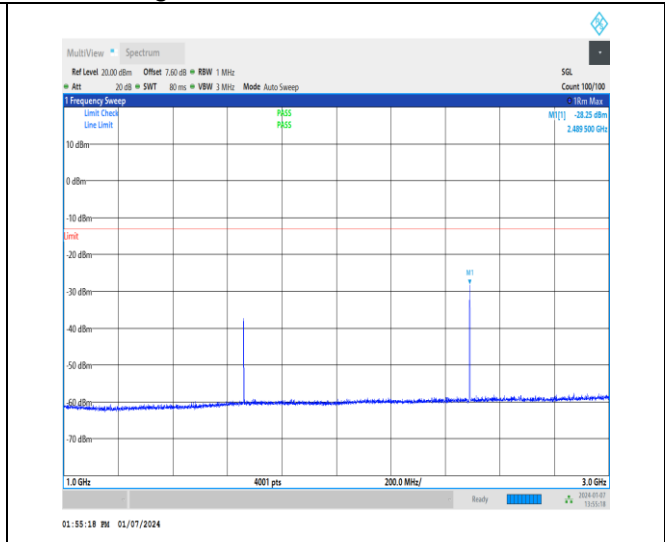
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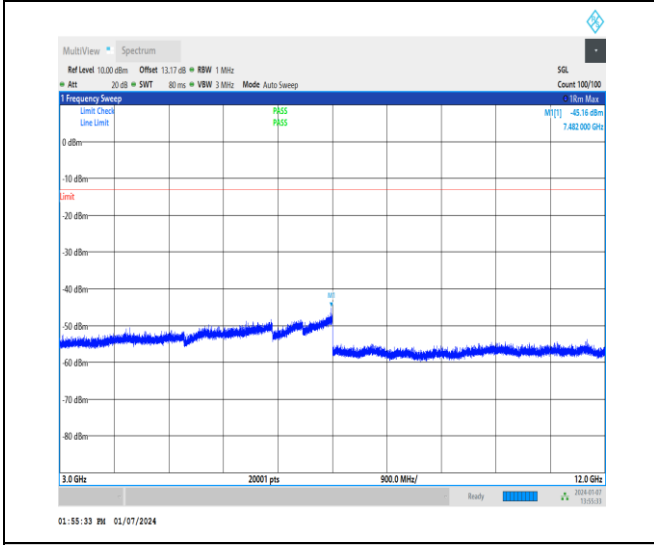
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1-DC\_2A\_n5A-15-20-H-1-DFT-PI2BPSK-Inner\_1RB  
\_Left-1@1-30-1000-Ant1-34.85--59.61--13-PASS



1-DC\_2A\_n5A-15-20-H-1-DFT-PI2BPSK-Inner\_1RB  
\_Left-1@1-1000-3000-Ant1-2489.50--28.25--13-PAS  
S



1-DC\_2A\_n5A-15-20-H-1-DFT-PI2BPSK-Inner\_1RB  
\_Left-1@1-3000-12000-Ant1-7482.00--45.16--13-PA  
SS



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## Field Strength of Spurious Radiation

Test Band = NSA 2A\_N5A\_TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1800	43.23	-48.22	25.27	-74.98	-13.00	61.98	Horizontal
2	2473.7700	42.49	-47.32	27.23	-72.86	-13.00	59.86	Horizontal
3	3298.3600	42.21	-46.68	28.48	-71.25	-13.00	58.25	Horizontal
4	4122.9500	40.23	-45.91	29.40	-71.55	-13.00	58.55	Horizontal
5	4947.5400	40.65	-45.69	31.29	-69.01	-13.00	56.01	Horizontal
6	5772.1300	39.35	-44.64	32.65	-67.89	-13.00	54.89	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1800	43.02	-48.22	25.27	-75.19	-13.00	62.19	Vertical
2	2473.7700	42.24	-47.32	27.23	-73.11	-13.00	60.11	Vertical
3	3298.3600	43.11	-46.68	28.48	-70.35	-13.00	57.35	Vertical
4	4122.9500	40.47	-45.91	29.40	-71.31	-13.00	58.31	Vertical
5	4947.5400	41.02	-45.69	31.29	-68.64	-13.00	55.64	Vertical
6	5772.1300	39.13	-44.64	32.65	-68.11	-13.00	55.11	Vertical



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**Test Band = NSA 2A\_N5A\_TM1**

**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.1800	43.20	-48.20	25.30	-74.97	-13.00	61.97	Horizontal
2	2496.2700	42.84	-47.28	27.29	-72.41	-13.00	59.41	Horizontal
3	3328.3600	42.07	-46.64	28.50	-71.33	-13.00	58.33	Horizontal
4	4160.4500	40.41	-45.94	29.49	-71.30	-13.00	58.30	Horizontal
5	4992.5400	40.44	-45.79	31.38	-69.23	-13.00	56.23	Horizontal
6	5824.6300	38.81	-44.74	32.67	-68.52	-13.00	55.52	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.1800	42.63	-48.20	25.30	-75.54	-13.00	62.54	Vertical
2	2496.2700	41.85	-47.28	27.29	-73.40	-13.00	60.40	Vertical
3	3328.3600	42.56	-46.64	28.50	-70.84	-13.00	57.84	Vertical
4	4160.4500	40.71	-45.94	29.49	-71.00	-13.00	58.00	Vertical
5	4992.5400	40.63	-45.79	31.38	-69.04	-13.00	56.04	Vertical
6	5824.6300	39.85	-44.74	32.67	-67.48	-13.00	54.48	Vertical



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Test Band = NSA 2A\_N5A\_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.1800	42.85	-48.18	25.32	-75.28	-13.00	62.28	Horizontal
2	2518.7700	42.14	-47.21	27.34	-72.99	-13.00	59.99	Horizontal
3	3358.3600	41.81	-46.60	28.52	-71.53	-13.00	58.53	Horizontal
4	4197.9500	39.91	-45.96	29.58	-71.73	-13.00	58.73	Horizontal
5	5037.5400	39.81	-45.65	31.49	-69.61	-13.00	56.61	Horizontal
6	5887.1300	39.86	-44.93	32.68	-67.65	-13.00	54.65	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.1800	42.70	-48.18	25.32	-75.43	-13.00	62.43	Vertical
2	2518.7700	42.20	-47.21	27.34	-72.93	-13.00	59.93	Vertical
3	3358.3600	41.85	-46.60	28.52	-71.49	-13.00	58.49	Vertical
4	4197.9500	40.33	-45.96	29.58	-71.31	-13.00	58.31	Vertical
5	5037.5400	40.03	-45.65	31.49	-69.39	-13.00	56.39	Vertical
6	5887.1300	39.90	-44.93	32.68	-67.61	-13.00	54.61	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	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
DC_2A_n5A	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-4.300000	-0.005140	PASS
DC_2A_n5A	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-3.300000	-0.003945	PASS
DC_2A_n5A	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-3.400000	-0.004065	PASS
DC_2A_n5A	15	20	CP-QPSK	M	Outer_Full	VH	NT	-2.900000	-0.003467	PASS
DC_2A_n5A	15	20	CP-QPSK	M	Outer_Full	VN	NT	-5.300000	-0.006336	PASS
DC_2A_n5A	15	20	CP-QPSK	M	Outer_Full	VL	NT	-3.000000	-0.003586	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
DC_2A_n5A	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-7.200000	-0.008607	PASS
DC_2A_n5A	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-6.000000	-0.007173	PASS
DC_2A_n5A	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-3.500000	-0.004184	PASS
DC_2A_n5A	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	-4.800000	-0.005738	PASS
DC_2A_n5A	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	-7.700000	-0.009205	PASS
DC_2A_n5A	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	-6.400000	-0.007651	PASS
DC_2A_n5A	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	-3.900000	-0.004662	PASS
DC_2A_n5A	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	-4.800000	-0.005738	PASS
DC_2A_n5A	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	-6.700000	-0.008010	PASS
DC_2A_n5A	15	20	CP-QPSK	M	Outer_Full	NV	-30	-5.600000	-0.006695	PASS
DC_2A_n5A	15	20	CP-QPSK	M	Outer_Full	NV	-20	-7.500000	-0.008966	PASS
DC_2A_n5A	15	20	CP-QPSK	M	Outer_Full	NV	-10	-6.300000	-0.007531	PASS
DC_2A_n5A	15	20	CP-QPSK	M	Outer_Full	NV	0	-2.600000	-0.003108	PASS
DC_2A_n5A	15	20	CP-QPSK	M	Outer_Full	NV	10	-5.500000	-0.006575	PASS
DC_2A_n5A	15	20	CP-QPSK	M	Outer_Full	NV	20	-4.700000	-0.005619	PASS
DC_2A_n5A	15	20	CP-QPSK	M	Outer_Full	NV	30	-4.800000	-0.005738	PASS
DC_2A_n5A	15	20	CP-QPSK	M	Outer_Full	NV	40	-4.600000	-0.005499	PASS
DC_2A_n5A	15	20	CP-QPSK	M	Outer_Full	NV	50	-6.000000	-0.007173	PASS

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