

Report No.: SUCR240200003403

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Appendix B.21

NR Band n5



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
N5	15	5	DFT-QPSK	L	Inner_1RB_Left	22.31	18.56	38.45	PASS
N5	15	5	DFT-16QAM	L	Inner_1RB_Left	21.39	17.64	38.45	PASS
N5	15	5	DFT-QPSK	M	Inner_1RB_Left	22.2	18.45	38.45	PASS
N5	15	5	DFT-16QAM	M	Inner_1RB_Left	21.33	17.58	38.45	PASS
N5	15	5	DFT-QPSK	H	Inner_1RB_Left	22.06	18.31	38.45	PASS
N5	15	5	DFT-16QAM	H	Inner_1RB_Left	21.52	17.77	38.45	PASS
N5	15	10	DFT-QPSK	L	Inner_1RB_Left	22.14	18.39	38.45	PASS
N5	15	10	DFT-16QAM	L	Inner_1RB_Left	21.41	17.66	38.45	PASS
N5	15	10	DFT-QPSK	M	Inner_1RB_Left	22.02	18.27	38.45	PASS
N5	15	10	DFT-16QAM	M	Inner_1RB_Left	21.43	17.68	38.45	PASS
N5	15	10	DFT-QPSK	H	Inner_1RB_Left	22.42	18.67	38.45	PASS
N5	15	10	DFT-16QAM	H	Inner_1RB_Left	21.34	17.59	38.45	PASS
N5	15	15	DFT-QPSK	L	Inner_1RB_Left	22.19	18.44	38.45	PASS
N5	15	15	DFT-16QAM	L	Inner_1RB_Left	21.33	17.58	38.45	PASS
N5	15	15	DFT-QPSK	M	Inner_1RB_Left	22.16	18.41	38.45	PASS
N5	15	15	DFT-16QAM	M	Inner_1RB_Left	21.19	17.44	38.45	PASS
N5	15	15	DFT-QPSK	H	Inner_1RB_Left	22.28	18.53	38.45	PASS
N5	15	15	DFT-16QAM	H	Inner_1RB_Left	21.53	17.78	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Inner_1RB_Left	22.22	18.47	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Inner_1RB_Right	22.23	18.48	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Outer_Full	21.8	18.05	38.45	PASS
N5	15	20	DFT-QPSK	L	Inner_1RB_Left	22.41	18.66	38.45	PASS
N5	15	20	DFT-QPSK	L	Inner_1RB_Right	22.22	18.47	38.45	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	21.17	17.42	38.45	PASS
N5	15	20	DFT-16QAM	L	Inner_1RB_Left	21.53	17.78	38.45	PASS
N5	15	20	DFT-16QAM	L	Inner_1RB_Right	21.31	17.56	38.45	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	20.24	16.49	38.45	PASS
N5	15	20	DFT-64QAM	L	Inner_1RB_Left	19.9	16.15	38.45	PASS
N5	15	20	DFT-64QAM	L	Inner_1RB_Right	19.84	16.09	38.45	PASS
N5	15	20	DFT-64QAM	L	Outer_Full	19.86	16.11	38.45	PASS
N5	15	20	DFT-256QAM	L	Inner_1RB_Left	17.9	14.15	38.45	PASS



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N5	15	20	DFT-256QAM	L	Inner_1RB_Right	17.85	14.1	38.45	PASS
N5	15	20	DFT-256QAM	L	Outer_Full	17.97	14.22	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Inner_1RB_Left	22.04	18.29	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Inner_1RB_Right	22.32	18.57	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	21.97	18.22	38.45	PASS
N5	15	20	DFT-QPSK	M	Inner_1RB_Left	22.37	18.62	38.45	PASS
N5	15	20	DFT-QPSK	M	Inner_1RB_Right	22.44	18.69	38.45	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	21.22	17.47	38.45	PASS
N5	15	20	DFT-16QAM	M	Inner_1RB_Left	21.23	17.48	38.45	PASS
N5	15	20	DFT-16QAM	M	Inner_1RB_Right	21.44	17.69	38.45	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	20.25	16.5	38.45	PASS
N5	15	20	DFT-64QAM	M	Inner_1RB_Left	19.81	16.06	38.45	PASS
N5	15	20	DFT-64QAM	M	Inner_1RB_Right	20.09	16.34	38.45	PASS
N5	15	20	DFT-64QAM	M	Outer_Full	19.91	16.16	38.45	PASS
N5	15	20	DFT-256QAM	M	Inner_1RB_Left	17.92	14.17	38.45	PASS
N5	15	20	DFT-256QAM	M	Inner_1RB_Right	18.18	14.43	38.45	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	18.03	14.28	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Inner_1RB_Left	22.19	18.44	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Inner_1RB_Right	22.16	18.41	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Outer_Full	21.97	18.22	38.45	PASS
N5	15	20	DFT-QPSK	H	Inner_1RB_Left	22.4	18.65	38.45	PASS
N5	15	20	DFT-QPSK	H	Inner_1RB_Right	22.25	18.5	38.45	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	21.45	17.7	38.45	PASS
N5	15	20	DFT-16QAM	H	Inner_1RB_Left	21.5	17.75	38.45	PASS
N5	15	20	DFT-16QAM	H	Inner_1RB_Right	21.52	17.77	38.45	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	20.49	16.74	38.45	PASS
N5	15	20	DFT-64QAM	H	Inner_1RB_Left	19.88	16.13	38.45	PASS
N5	15	20	DFT-64QAM	H	Inner_1RB_Right	20.02	16.27	38.45	PASS
N5	15	20	DFT-64QAM	H	Outer_Full	19.9	16.15	38.45	PASS
N5	15	20	DFT-256QAM	H	Inner_1RB_Left	18.03	14.28	38.45	PASS
N5	15	20	DFT-256QAM	H	Inner_1RB_Right	17.96	14.21	38.45	PASS
N5	15	20	DFT-256QAM	H	Outer_Full	18.01	14.26	38.45	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	Verdict
N5	15	20	DFT-256QAM	L	Outer_Full	6.77	PASS
N5	15	20	CP-256QAM	L	Outer_Full	8.61	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	6.74	PASS
N5	15	20	CP-256QAM	M	Outer_Full	8.64	PASS
N5	15	20	DFT-256QAM	H	Outer_Full	6.73	PASS
N5	15	20	CP-256QAM	H	Outer_Full	8.61	PASS



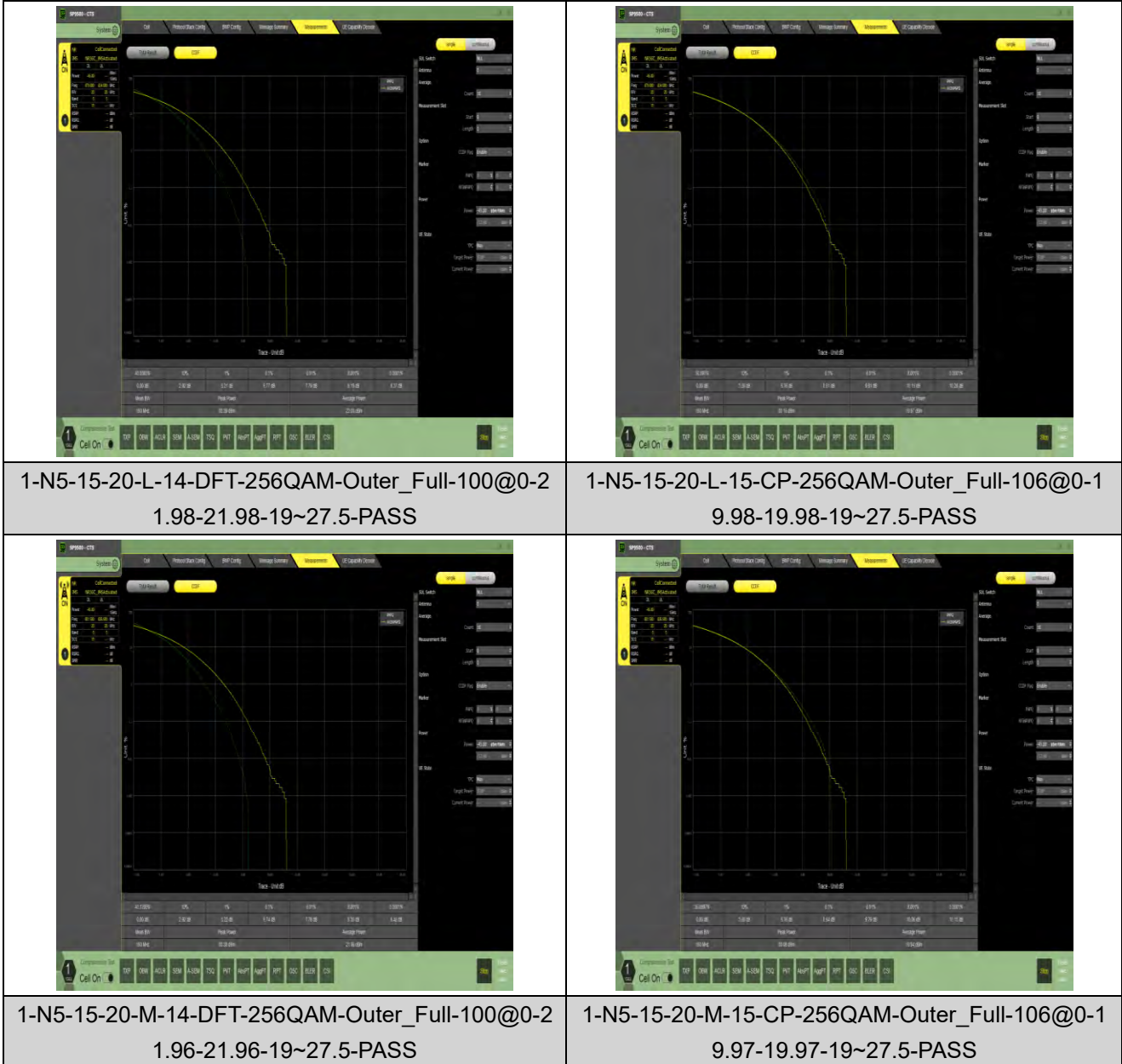
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Test Graphs



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1-N5-15-20-H-14-DFT-256QAM-Outer_Full-100@0-2
1.96-21.96-19~27.5-PASS



1-N5-15-20-H-15-CP-256QAM-Outer_Full-106@0-1
9.95-19.95-19~27.5-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
N5	15	5	DFT-QPSK	M	Outer_Full	4.519	4.970	PASS
N5	15	5	DFT-PI2BPSK	M	Outer_Full	4.508	4.970	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	4.507	4.910	PASS
N5	15	5	DFT-64QAM	M	Outer_Full	4.519	4.950	PASS
N5	15	5	DFT-256QAM	M	Outer_Full	4.502	4.930	PASS
N5	15	5	CP-QPSK	M	Outer_Full	4.514	5.500	PASS
N5	15	5	CP-16QAM	M	Outer_Full	4.509	5.550	PASS
N5	15	5	CP-64QAM	M	Outer_Full	4.53	6.380	PASS
N5	15	5	CP-256QAM	M	Outer_Full	4.486	4.960	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	8.92	9.420	PASS
N5	15	10	DFT-PI2BPSK	M	Outer_Full	8.949	9.460	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	8.915	9.420	PASS
N5	15	10	DFT-64QAM	M	Outer_Full	8.935	9.480	PASS
N5	15	10	DFT-256QAM	M	Outer_Full	8.924	9.460	PASS
N5	15	10	CP-QPSK	M	Outer_Full	9.302	10.420	PASS
N5	15	10	CP-16QAM	M	Outer_Full	9.307	10.520	PASS
N5	15	10	CP-64QAM	M	Outer_Full	9.305	9.840	PASS
N5	15	10	CP-256QAM	M	Outer_Full	9.269	9.820	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	13.459	14.370	PASS
N5	15	15	DFT-PI2BPSK	M	Outer_Full	13.484	14.340	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	13.457	14.370	PASS
N5	15	15	DFT-64QAM	M	Outer_Full	13.487	14.340	PASS
N5	15	15	DFT-256QAM	M	Outer_Full	13.456	14.280	PASS
N5	15	15	CP-QPSK	M	Outer_Full	14.186	17.040	PASS
N5	15	15	CP-16QAM	M	Outer_Full	14.202	19.800	PASS
N5	15	15	CP-64QAM	M	Outer_Full	14.192	15.120	PASS
N5	15	15	CP-256QAM	M	Outer_Full	14.153	15.060	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	17.865	18.840	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	17.92	18.960	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	17.878	18.840	PASS



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N5	15	20	DFT-64QAM	M	Outer_Full	17.908	18.880	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	17.853	18.840	PASS
N5	15	20	CP-QPSK	M	Outer_Full	18.982	21.720	PASS
N5	15	20	CP-16QAM	M	Outer_Full	18.946	20.880	PASS
N5	15	20	CP-64QAM	M	Outer_Full	18.978	20.040	PASS
N5	15	20	CP-256QAM	M	Outer_Full	18.906	19.960	PASS



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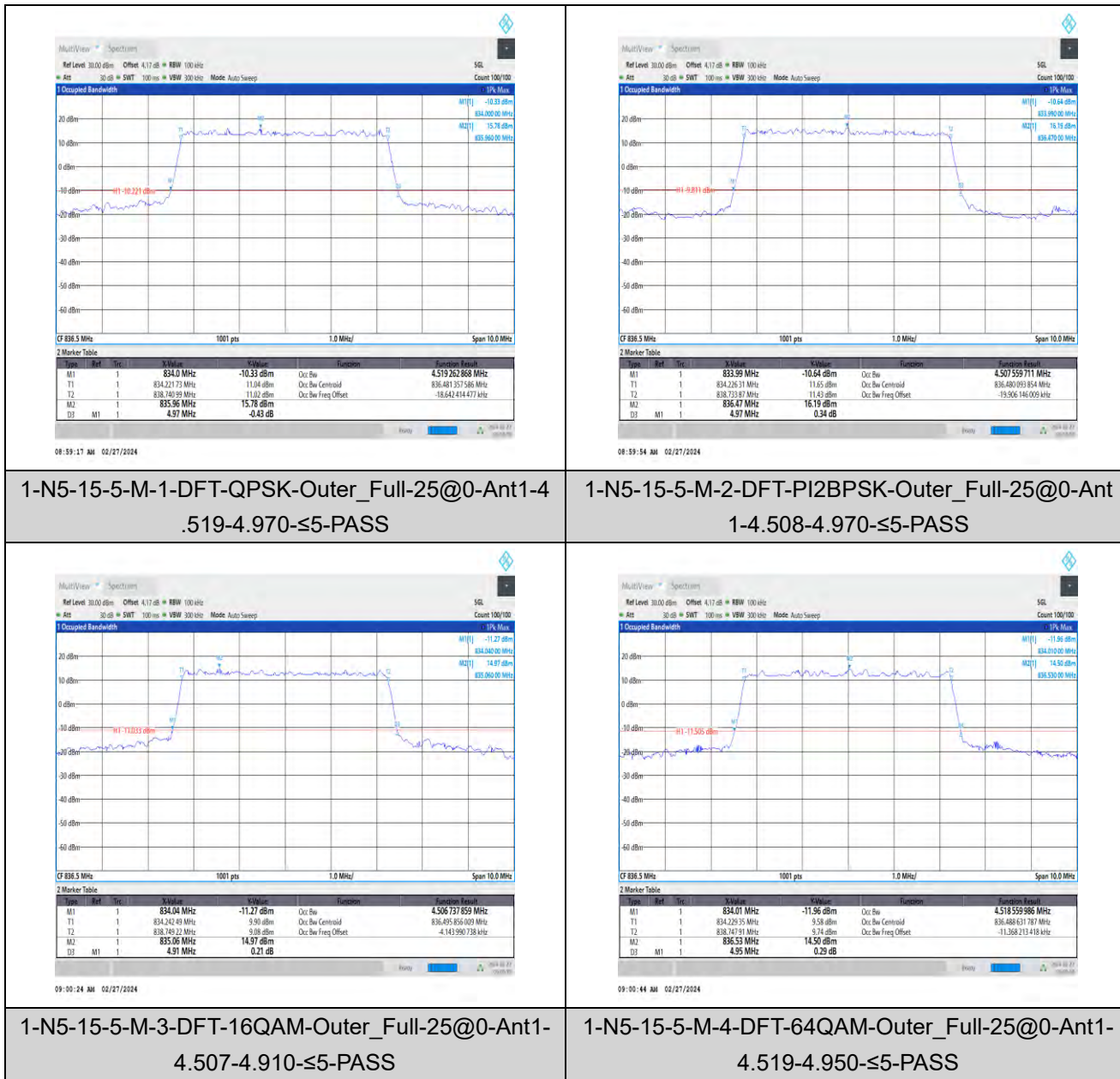
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Test Graphs



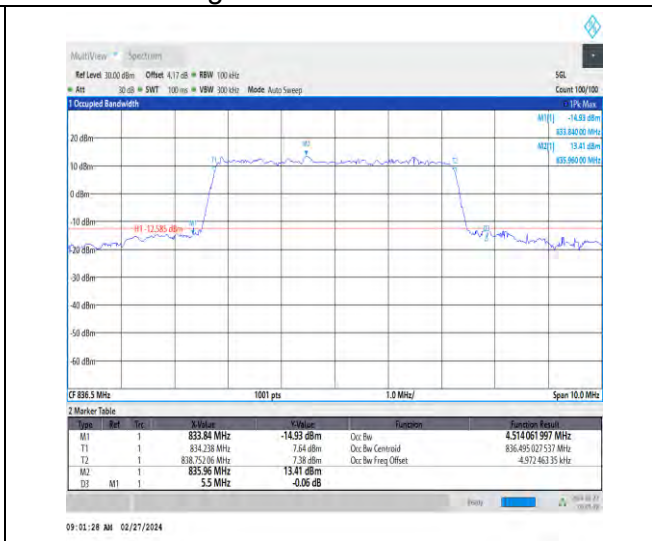
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1-N5-15-5-M-5-DFT-256QAM-Outer_Full-25@0-Ant
1-4.502-4.930-≤5-PASS



1-N5-15-5-M-6-CP-QPSK-Outer_Full-25@0-Ant1-4.5
14-5.500-≤5-PASS



1-N5-15-5-M-7-CP-16QAM-Outer_Full-25@0-Ant1-4
.509-5.550-≤5-PASS



1-N5-15-5-M-8-CP-64QAM-Outer_Full-25@0-Ant1-4.
53-6.380-≤5-PASS



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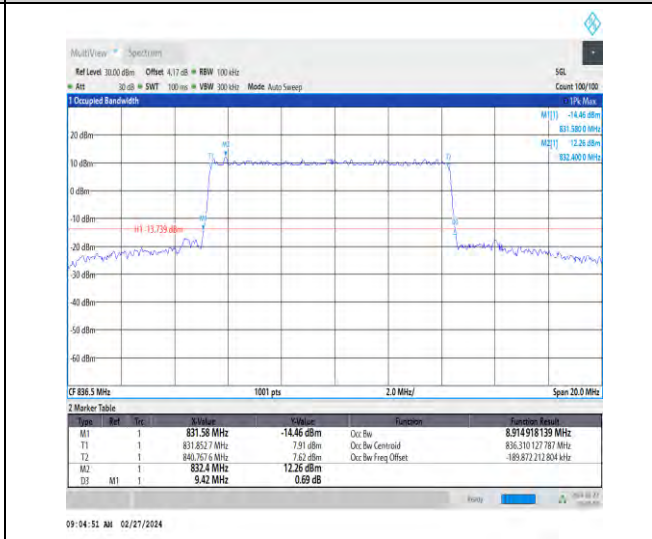
1-N5-15-5-M-9-CP-256QAM-Outer_Full-25@0-Ant1-4.486-4.960-≤5-PASS



1-N5-15-10-M-1-DFT-QPSK-Outer_Full-50@0-Ant1-8.92-9.420-≤10-PASS



1-N5-15-10-M-2-DFT-P12BPSK-Outer_Full-50@0-Ant1-8.949-9.460-≤10-PASS



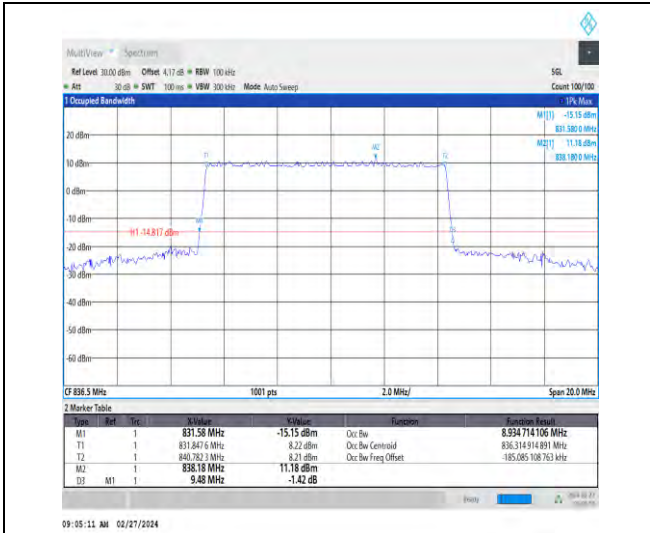
1-N5-15-10-M-3-DFT-16QAM-Outer_Full-50@0-Ant1-8.915-9.420-≤10-PASS



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1-N5-15-10-M-4-DFT-64QAM-Outer_Full-50@0-Ant
1-8.935-9.480-≤10-PASS

1-N5-15-10-M-5-DFT-256QAM-Outer_Full-50@0-Ant
1-8.924-9.460-≤10-PASS



1-N5-15-10-M-6-CP-QPSK-Outer_Full-52@0-Ant1-9
.302-10.420-≤10-PASS

1-N5-15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant1-9
9.307-10.520-≤10-PASS



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1-N5-15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant1-9.305-9.840-≤10-PASS



1-N5-15-10-M-9-CP-256QAM-Outer_Full-52@0-Ant1-9.269-9.820-≤10-PASS



1-N5-15-15-M-1-DFT-QPSK-Outer_Full-75@0-Ant1-13.459-14.370-≤15-PASS



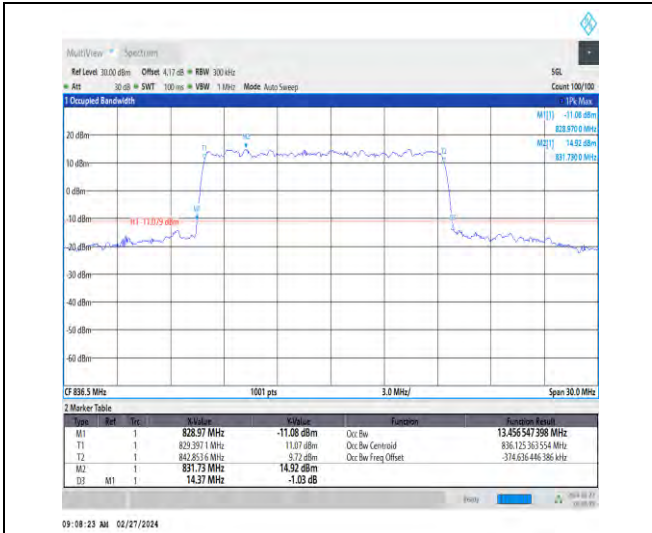
1-N5-15-15-M-2-DFT-PI2BPSK-Outer_Full-75@0-Ant1-13.484-14.340-≤15-PASS



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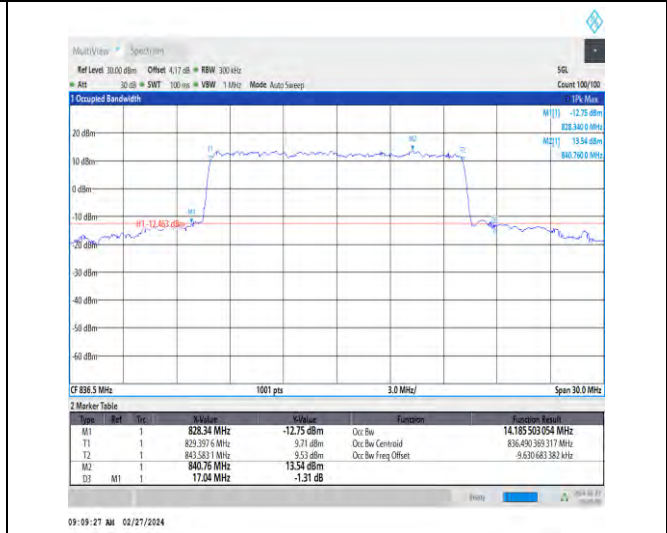
1-N5-15-15-M-3-DFT-16QAM-Outer_Full-75@0-Ant
1-13.457-14.370≤15-PASS



1-N5-15-15-M-4-DFT-64QAM-Outer_Full-75@0-Ant1
-13.487-14.340≤15-PASS



1-N5-15-15-M-5-DFT-256QAM-Outer_Full-75@0-An
t1-13.456-14.280≤15-PASS



1-N5-15-15-M-6-CP-QPSK-Outer_Full-79@0-Ant1-1
4.186-17.040≤15-PASS



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1-N5-15-15-M-7-CP-16QAM-Outer_Full-79@0-Ant1-14.202-19.800-≤15-PASS



1-N5-15-15-M-8-CP-64QAM-Outer_Full-79@0-Ant1-14.192-15.120-≤15-PASS



1-N5-15-15-M-9-CP-256QAM-Outer_Full-79@0-Ant1-1.14.153-15.060-≤15-PASS



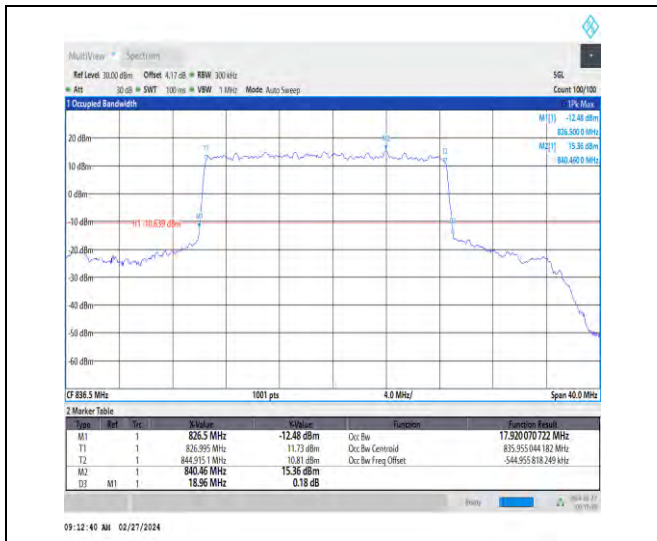
1-N5-15-20-M-1-DFT-QPSK-Outer_Full-100@0-Ant1-17.865-18.840-≤20-PASS



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1-N5-15-20-M-2-DFT-P12BPSK-Outer_Full-100@0-A
 nt1-17.92-18.960-≤20-PASS



1-N5-15-20-M-3-DFT-16QAM-Outer_Full-100@0-Ant
 1-17.878-18.840-≤20-PASS



1-N5-15-20-M-4-DFT-64QAM-Outer_Full-100@0-A
 t1-17.908-18.880-≤20-PASS



1-N5-15-20-M-5-DFT-256QAM-Outer_Full-100@0-A
 nt1-17.853-18.840-≤20-PASS



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1-N5-15-20-M-6-CP-QPSK-Outer_Full-106@0-Ant1-18.982-21.720-≤20-PASS



1-N5-15-20-M-7-CP-16QAM-Outer_Full-106@0-Ant1-18.946-20.880-≤20-PASS



1-N5-15-20-M-8-CP-64QAM-Outer_Full-106@0-Ant1-18.978-20.040-≤20-PASS



1-N5-15-20-M-9-CP-256QAM-Outer_Full-106@0-Ant1-18.906-19.960-≤20-PASS



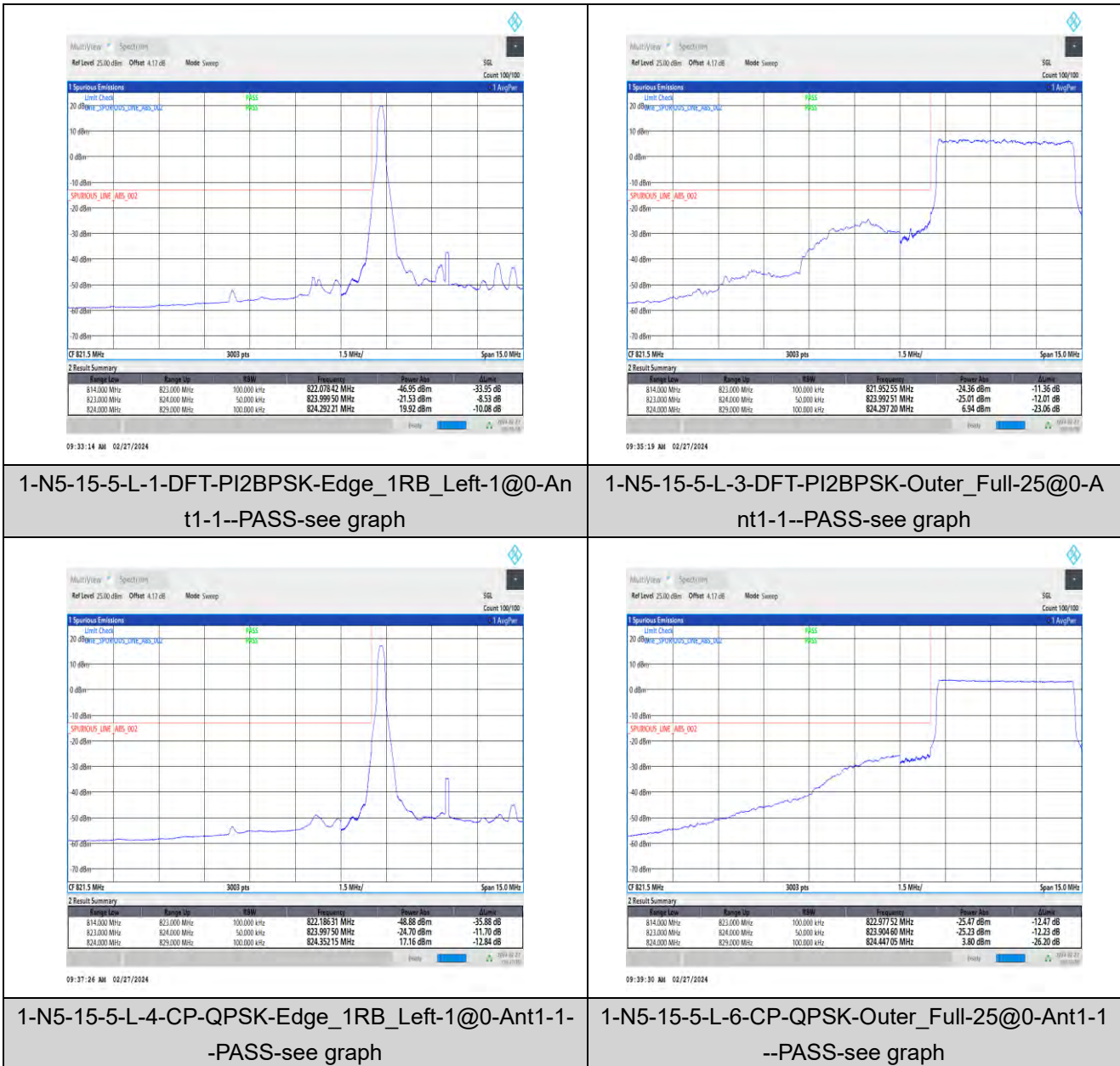
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Band Edge for SA

Test Graphs



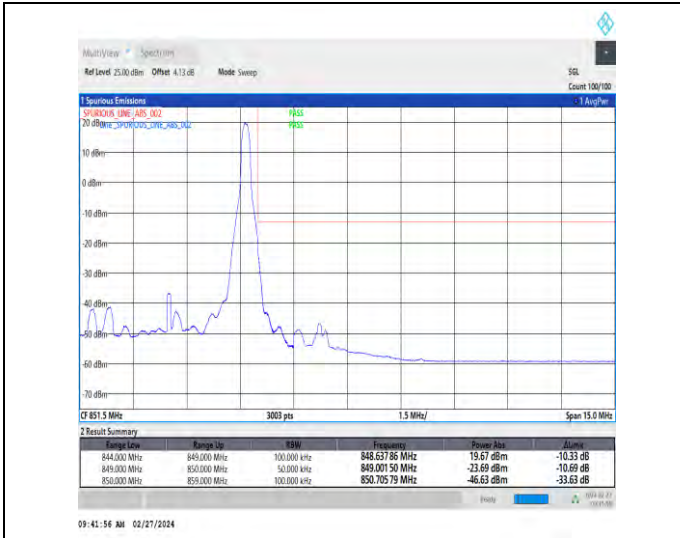
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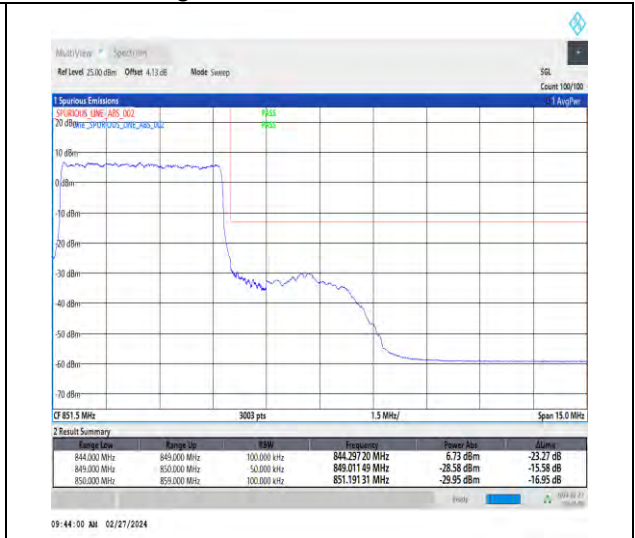
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1-N5-15-5-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@24-Ant1-1--PASS-see graph



1-N5-15-5-H-3-DFT-PI2BPSK-Outer_Full-25@0-Ant1-1--PASS-see graph



1-N5-15-5-H-5-CP-QPSK-Edge_1RB_Right-1@24-Ant1-1--PASS-see graph



1-N5-15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-1--PASS-see graph



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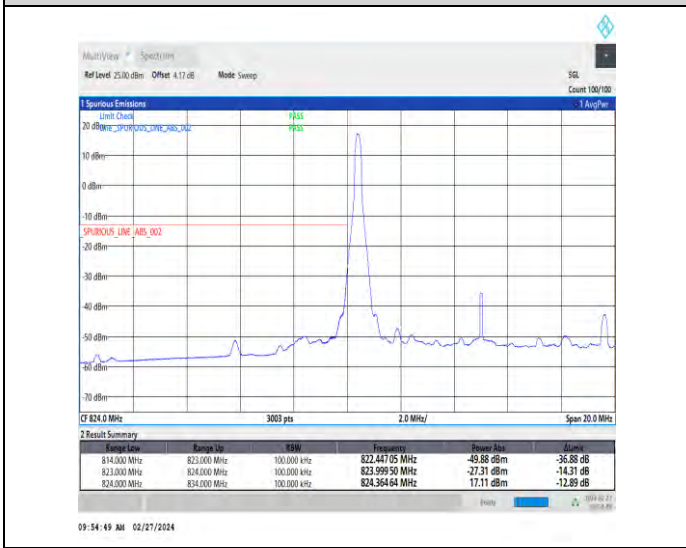
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1-N5-15-10-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-A nt1-1--PASS-see graph



1-N5-15-10-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-1--PASS-see graph



1-N5-15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



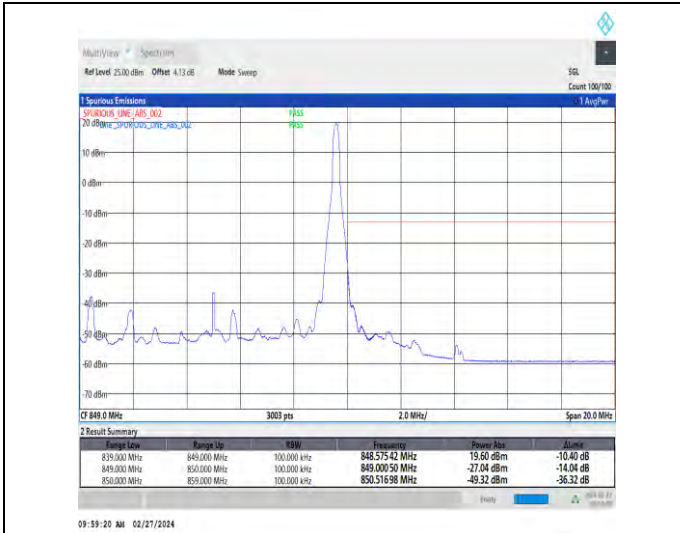
1-N5-15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-1--PASS-see graph



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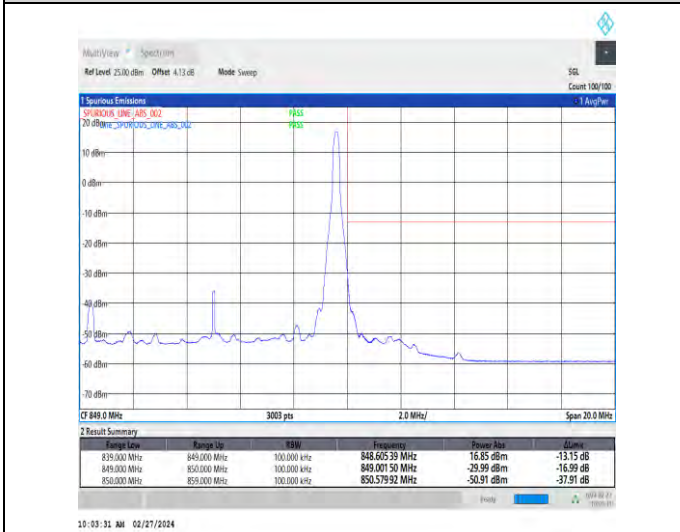
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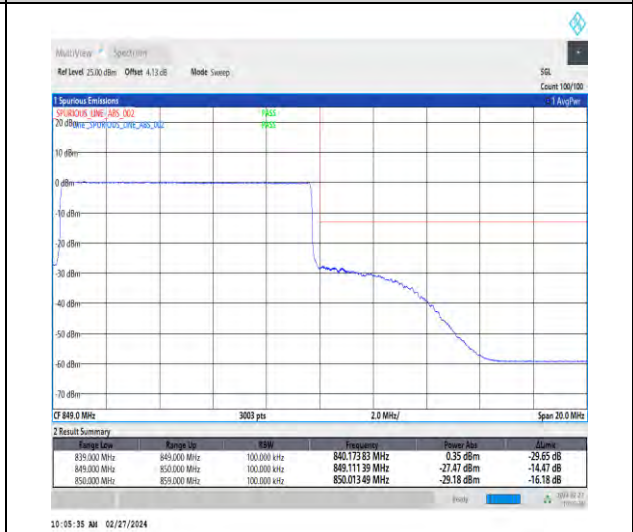
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1-Ant1-1--PASS-see graph



1-N5-15-10-H-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-1--PASS-see graph



1-N5-15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-Ant1-1--PASS-see graph



1-N5-15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1-1--PASS-see graph



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1-N5-15-15-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



1-N5-15-15-L-3-DFT-PI2BPSK-Outer_Full-75@0-Ant1-1--PASS-see graph



1-N5-15-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



1-N5-15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant1-1--PASS-see graph



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1-N5-15-15-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@78-Ant1-1--PASS-see graph



1-N5-15-15-H-3-DFT-PI2BPSK-Outer_Full-75@0-Ant1-1--PASS-see graph



1-N5-15-15-H-5-CP-QPSK-Edge_1RB_Right-1@78-Ant1-1--PASS-see graph



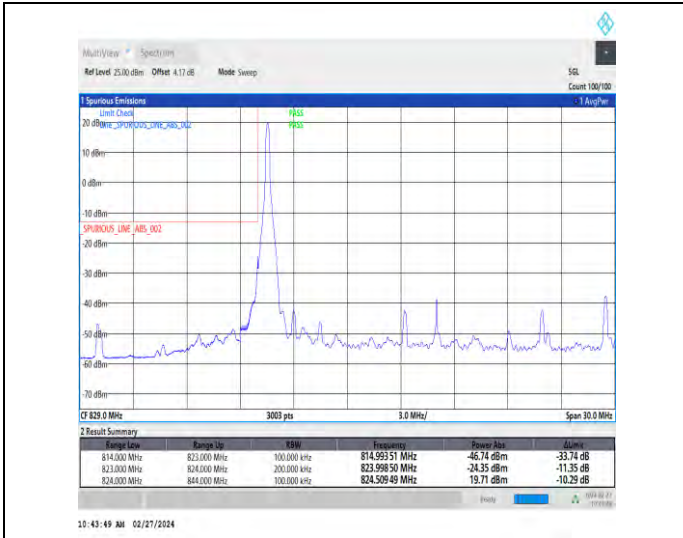
1-N5-15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant1-1--PASS-see graph



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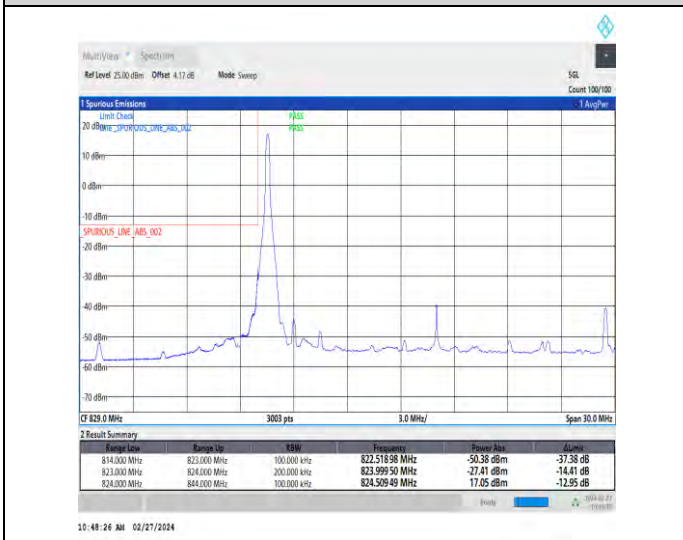
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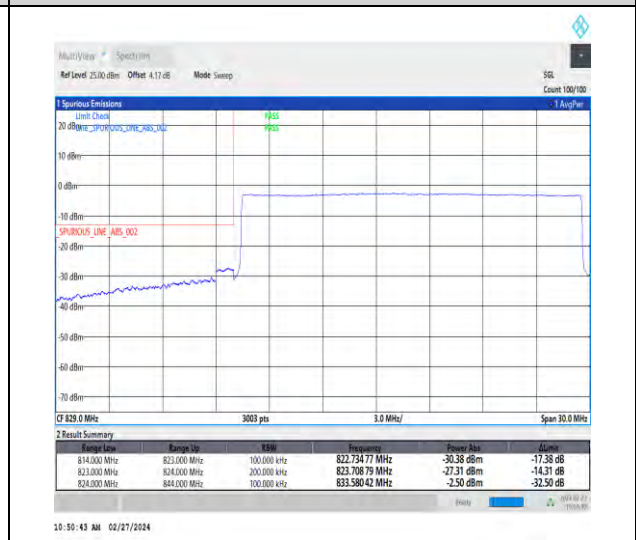
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nt1-1--PASS-see graph



1-N5-15-20-L-3-DFT-PI2BPSK-Outer_Full-100@0
-Ant1-1--PASS-see graph



1-N5-15-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



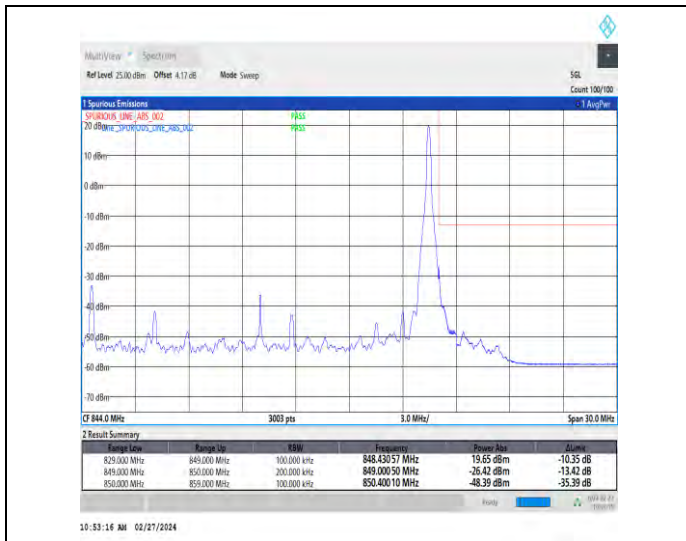
1-N5-15-20-L-6-CP-QPSK-Outer_Full-106@0-Ant
1-1--PASS-see graph



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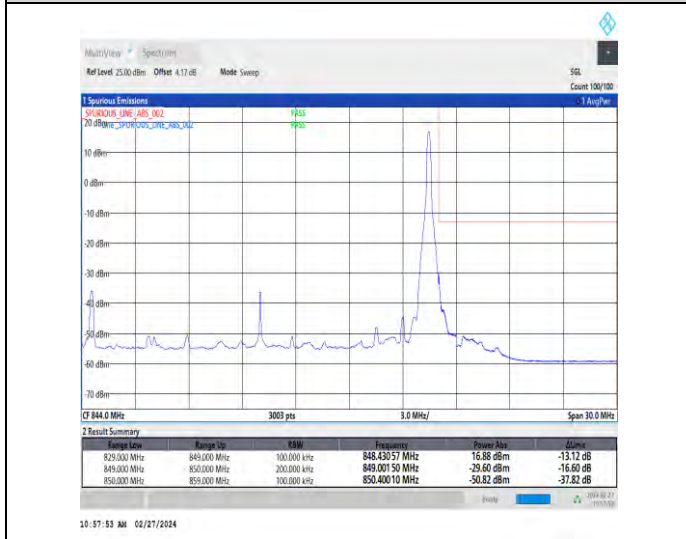
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1-N5-15-20-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@105-Ant1-1--PASS-see graph



1-N5-15-20-H-3-DFT-PI2BPSK-Outer_Full-100@0-Ant1-1--PASS-see graph



1-N5-15-20-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant1-1--PASS-see graph



1-N5-15-20-H-6-CP-QPSK-Outer_Full-106@0-Ant1-1--PASS-see graph



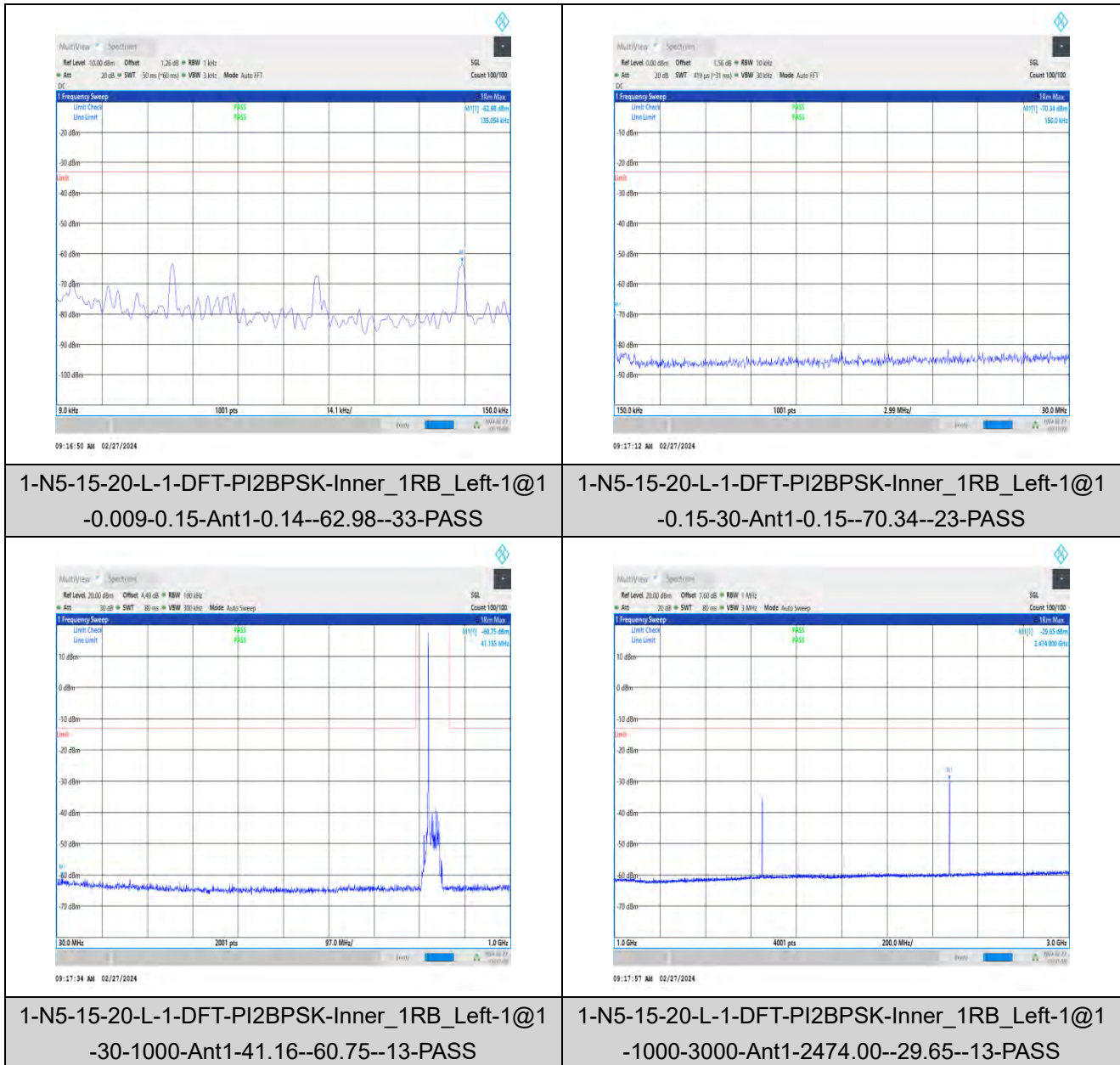
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Conducted Spurious Emission for SA

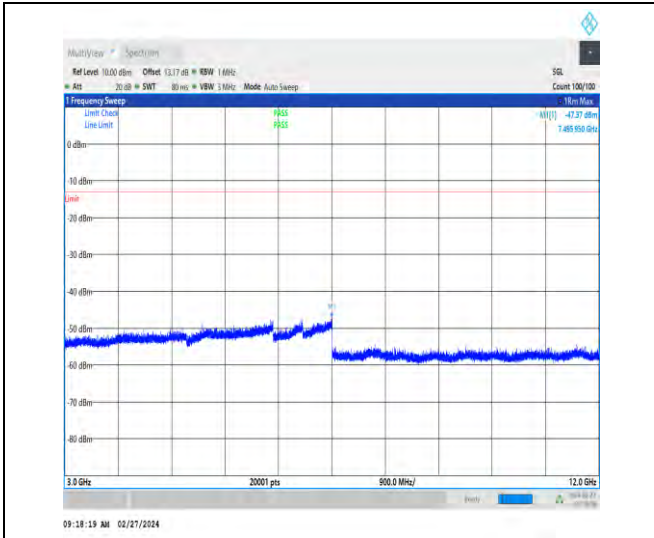
Test Graphs



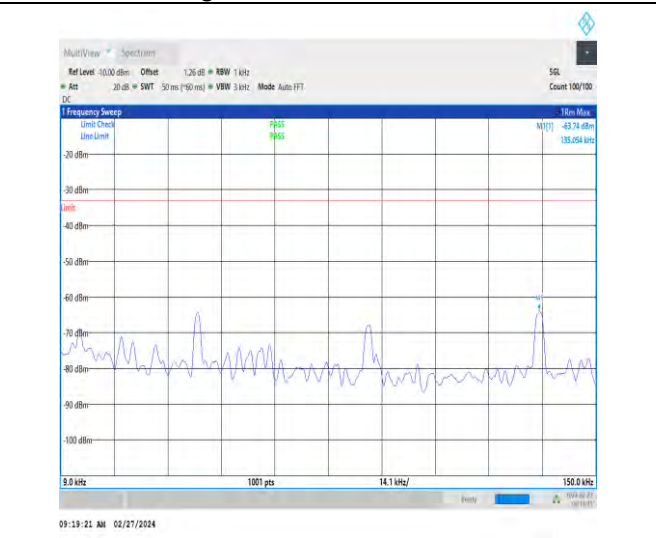
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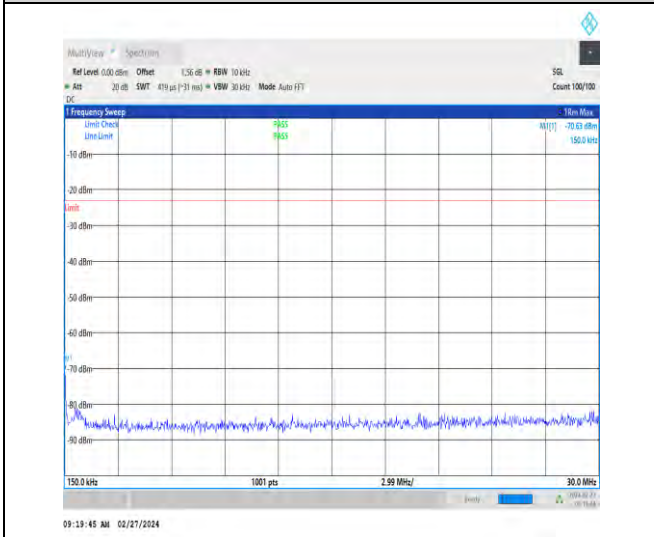
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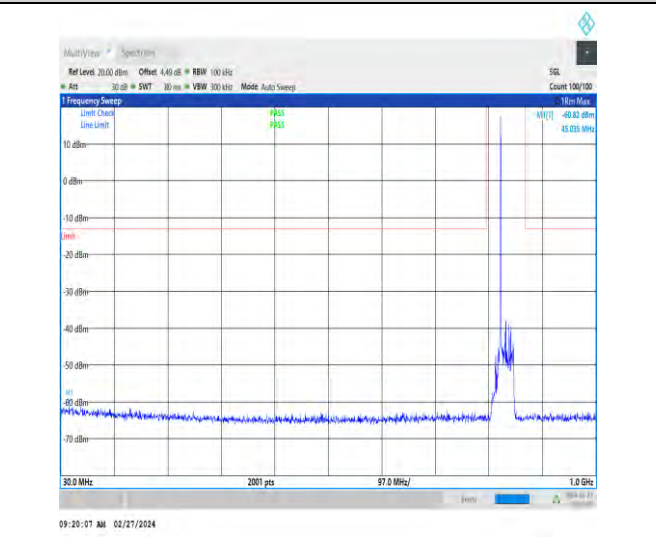
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-3000-12000-Ant1-7495.95--47.37--13-PASS



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1-0.009-0.15-Ant1-0.14--63.74--33-PASS



1-N5-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-0.15-30-Ant1-0.15--70.63--23-PASS



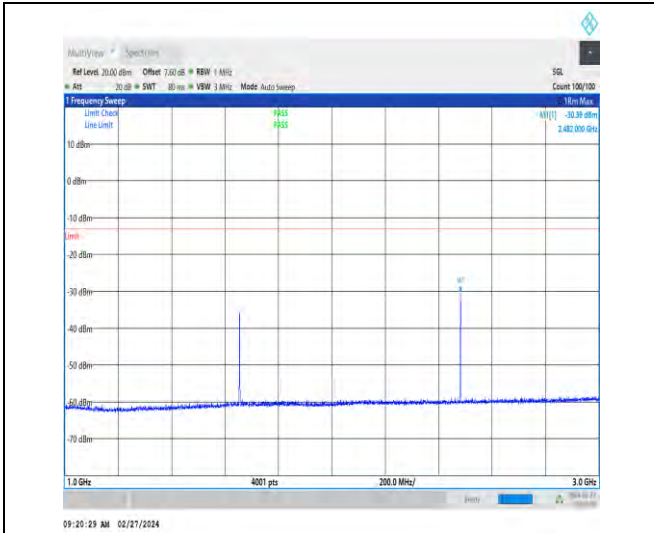
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1-30-1000-Ant1-45.04--60.82--13-PASS



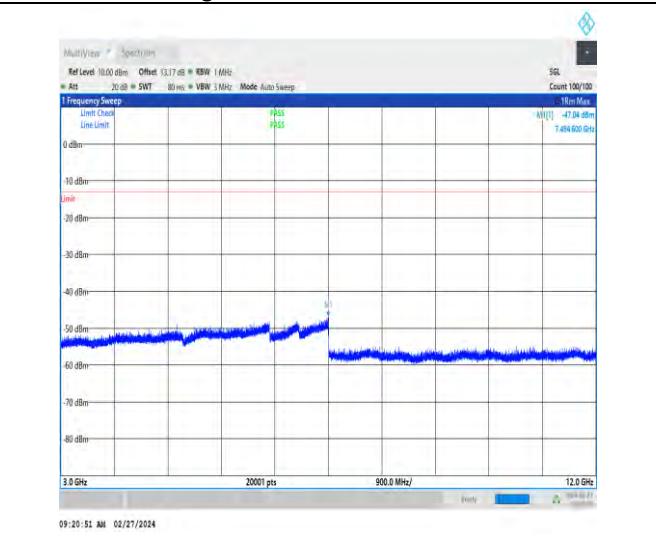
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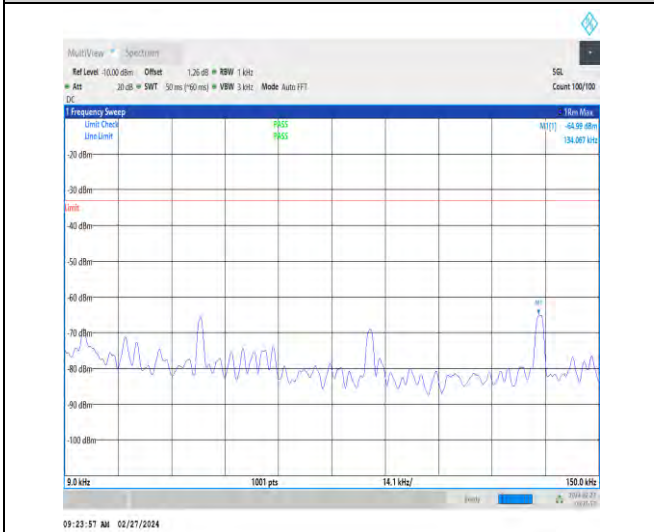
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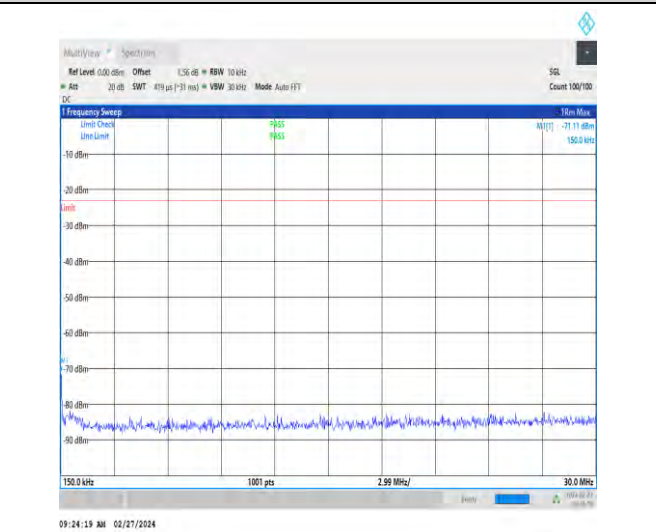
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1-N5-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-3000-12000-Ant1-7494.60--47.04--13-PASS



1-N5-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1
-0.009-0.15-Ant1-0.13--64.99--33-PASS



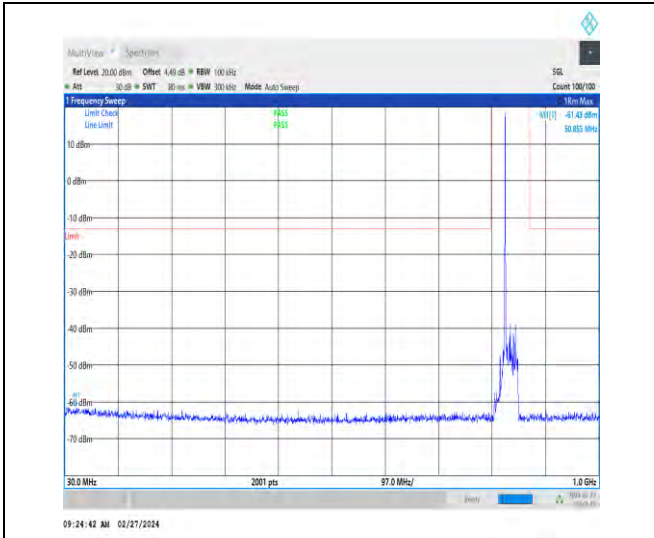
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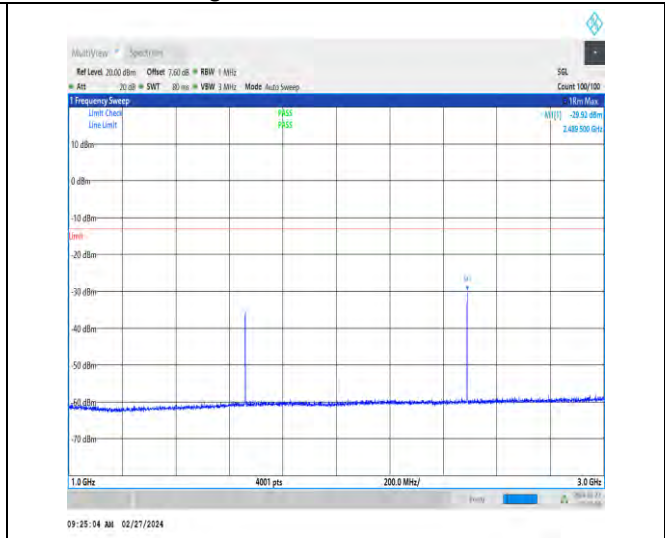
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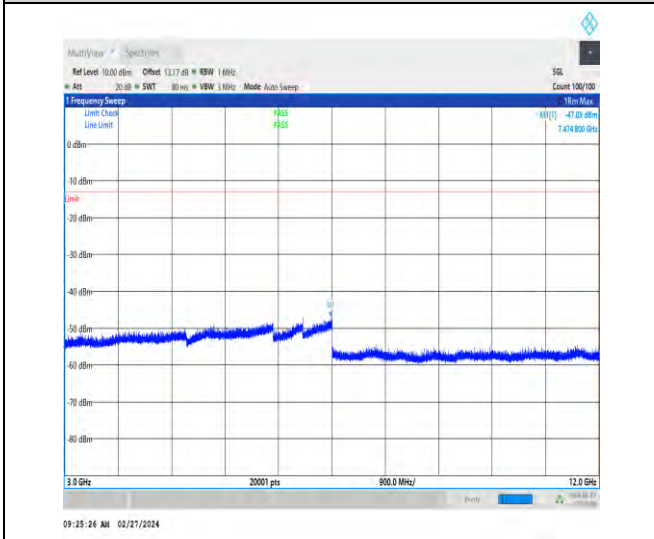
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1-N5-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1
-30-1000-Ant1-50.86--61.43--13-PASS



1-N5-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1
-1000-3000-Ant1-2489.50--29.92--13-PASS



1-N5-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1
-3000-12000-Ant1-7474.80--47.03--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA_N5

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1000	54.79	-52.38	25.50	-67.35	-13.00	54.35	Horizontal
2	1649.5	62.22	-53.11	25.90	-60.25	-13.00	47.25	Horizontal
3	2473.5	88.21	-51.87	27.95	-30.97	-13.00	17.97	Horizontal
4	3304.5	56.62	-49.80	30.61	-57.83	-13.00	44.83	Horizontal
5	4123	62.85	-48.10	30.88	-49.63	-13.00	36.63	Horizontal
6	5073	52.13	-44.65	33.45	-54.33	-13.00	41.33	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.5	59.97	-53.11	25.90	-62.50	-13.00	49.50	Vertical
2	2473	69.21	-51.87	27.95	-49.97	-13.00	36.97	Vertical
3	3293.5	55.00	-49.80	30.69	-59.37	-13.00	46.37	Vertical
4	4122.5	62.69	-48.11	30.88	-49.80	-13.00	36.80	Vertical
5	5771.5	56.97	-45.12	33.99	-49.42	-13.00	36.42	Vertical
6	7384.5	50.08	-42.24	36.83	-50.59	-13.00	37.59	Vertical



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Report No.: SUCR240200003403

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Test Band = SA_N5

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1654	62.98	-53.12	25.89	-59.51	-13.00	46.51	Horizontal
2	2482	83.18	-51.85	27.96	-35.97	-13.00	22.97	Horizontal
3	4135.5	68.65	-47.97	30.98	-43.60	-13.00	30.60	Horizontal
4	5789.5	58.20	-45.03	34.06	-48.03	-13.00	35.03	Horizontal
5	7016	50.91	-43.41	36.44	-51.32	-13.00	38.32	Horizontal
6	9483.5	49.55	-39.44	39.13	-46.02	-13.00	33.02	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1770.5	59.99	-53.16	25.58	-62.85	-13.00	49.85	Vertical
2	2481	70.77	-51.86	27.96	-48.39	-13.00	35.39	Vertical
3	4136	60.84	-47.96	30.99	-51.39	-13.00	38.39	Vertical
4	5789	57.95	-45.03	34.06	-48.28	-13.00	35.28	Vertical
5	7363	50.01	-42.66	36.87	-51.04	-13.00	38.04	Vertical
6	9509	49.71	-39.29	39.18	-45.66	-13.00	32.66	Vertical



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Test Band = SA_N5
 Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1659	65.97	-52.83	25.88	-56.24	-13.00	43.24	Horizontal
2	2488.5	97.91	-51.22	27.98	-20.59	-13.00	7.59	Horizontal
3	4148	75.51	-47.18	31.08	-35.85	-13.00	22.85	Horizontal
4	4977.5	60.80	-44.04	33.15	-45.35	-13.00	32.35	Horizontal
5	5807	57.16	-44.49	34.10	-48.49	-13.00	35.49	Horizontal
6	7466.5	57.91	-42.75	36.67	-43.43	-13.00	30.43	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1659.5	60.77	-52.83	25.88	-61.44	-13.00	48.44	Vertical
2	2488.5	99.65	-51.22	27.98	-18.85	-13.00	5.85	Vertical
3	4148	67.74	-47.18	31.08	-43.62	-13.00	30.62	Vertical
4	4977	61.76	-44.05	33.15	-44.40	-13.00	31.40	Vertical
5	5807.5	56.82	-44.50	34.10	-48.84	-13.00	35.84	Vertical
6	7466.5	58.59	-42.75	36.67	-42.75	-13.00	29.75	Vertical



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Report No.: SUCR240200003403

Rev.: 01

Page: 33 of 37

Test Band = NSA_B30+N5

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4269.8135	52.96	-48.62	31.98	-58.94	-13.00	45.94	Horizontal
2	5104.6052	52.36	-47.19	33.51	-56.58	-13.00	43.58	Horizontal
3	7106.4553	50.69	-43.83	36.93	-51.47	-13.00	38.47	Horizontal
4	8553.2777	49.63	-42.28	39.04	-48.87	-13.00	35.87	Horizontal
5	11902.1951	47.65	-37.74	39.50	-45.85	-13.00	32.85	Horizontal
6	17982.7491	49.68	-43.77	42.70	-46.65	-13.00	33.65	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3762.7881	52.81	-49.41	30.50	-61.36	-13.00	48.36	Vertical
2	5166.8583	52.49	-46.82	33.16	-56.43	-13.00	43.43	Vertical
3	8544.2772	49.70	-42.33	38.96	-48.93	-13.00	35.93	Vertical
4	9502.0751	50.42	-41.51	39.20	-47.15	-13.00	34.15	Vertical
5	11911.1956	47.88	-37.88	39.49	-45.77	-13.00	32.77	Vertical
6	15017.8509	48.86	-38.90	39.88	-45.42	-13.00	32.42	Vertical



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Member of the SGS Group (SGS SA)

Test Band = NSA_B30+N5

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2481.1851	63.87	-17.94	27.96	-21.37	-13.00	8.37	Horizontal
2	4134.8067	69.15	-48.71	30.98	-43.84	-13.00	30.84	Horizontal
3	5790.1395	53.41	-45.59	34.06	-53.38	-13.00	40.38	Horizontal
4	7118.4559	50.17	-43.90	36.97	-52.02	-13.00	39.02	Horizontal
5	9448.8224	49.38	-41.34	38.99	-48.23	-13.00	35.23	Horizontal
6	11345.6673	47.85	-39.25	39.65	-47.01	-13.00	34.01	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2481.6852	60.58	-17.94	27.96	-24.66	-13.00	11.66	Vertical
2	4134.8067	71.07	-48.71	30.98	-41.92	-13.00	28.92	Vertical
3	5790.1395	52.06	-45.59	34.06	-54.73	-13.00	41.73	Vertical
4	7443.2222	53.28	-43.62	36.71	-48.89	-13.00	35.89	Vertical
5	9483.3242	49.43	-41.45	39.13	-48.15	-13.00	35.15	Vertical
6	11359.168	47.70	-39.25	39.66	-47.15	-13.00	34.15	Vertical



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Test Band = NSA_B30+N5

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2488.9361	57.55	-18.00	27.98	-27.73	-13.00	14.73	Horizontal
2	4147.5574	71.05	-48.53	31.08	-41.66	-13.00	28.66	Horizontal
3	5679.134	51.37	-44.93	33.42	-55.40	-13.00	42.40	Horizontal
4	8470.0235	49.62	-43.12	37.96	-50.80	-13.00	37.80	Horizontal
5	9472.8236	49.30	-41.42	39.09	-48.29	-13.00	35.29	Horizontal
6	12338.7169	45.58	-38.19	39.66	-48.21	-13.00	35.21	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2488.4361	62.34	-17.99	27.98	-22.93	-13.00	9.93	Vertical
2	4147.5574	70.05	-48.53	31.08	-42.66	-13.00	29.66	Vertical
3	5807.3904	52.33	-45.55	34.10	-54.38	-13.00	41.38	Vertical
4	7465.7233	51.02	-43.42	36.67	-50.99	-13.00	37.99	Vertical
5	9457.0729	49.61	-41.36	39.03	-47.98	-13.00	34.98	Vertical
6	11347.1674	47.31	-39.24	39.65	-47.54	-13.00	34.54	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)	Limit	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-4.900000	-0.005858	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-4.900000	-0.005858	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-3.200000	-0.003825	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VH	NT	-5.600000	-0.006695	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VN	NT	-6.400000	-0.007651	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VL	NT	-4.800000	-0.005738	±2.5	PASS



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Frequency Error VS. Temperature

Temperature											
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Limit	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-2.700000	-0.003228	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-7.200000	-0.008607	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-6.900000	-0.008249	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	-3.600000	-0.004304	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	-3.600000	-0.004304	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	-3.100000	-0.003706	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	-4.700000	-0.005619	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	-7.700000	-0.009205	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	-3.900000	-0.004662	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-30	-3.200000	-0.003825	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-20	-3.300000	-0.003945	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-10	-3.700000	-0.004423	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	0	-6.900000	-0.008249	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	10	-6.300000	-0.007531	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	20	-6.100000	-0.007292	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	30	-5.600000	-0.006695	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	40	-5.600000	-0.006695	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	50	-5.400000	-0.006455	±2.5	PASS

---End of Attachment---



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