

Report No.: SEWM2212000297RG02  
Rev.: 01  
Page: 1 of 67

# 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	Verdict
N5	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	23.5	20.25	38.45	PASS
N5	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	23.34	20.09	38.45	PASS
N5	15	5	DFT-PI2BPSK	L	Outer_Full	22.93	19.68	38.45	PASS
N5	15	5	DFT-QPSK	L	Inner_1RB_Left	23.43	20.18	38.45	PASS
N5	15	5	DFT-QPSK	L	Inner_1RB_Right	23.29	20.04	38.45	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	22.46	19.21	38.45	PASS
N5	15	5	DFT-16QAM	L	Inner_1RB_Left	22.42	19.17	38.45	PASS
N5	15	5	DFT-16QAM	L	Inner_1RB_Right	22.4	19.15	38.45	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	21.39	18.14	38.45	PASS
N5	15	5	DFT-64QAM	L	Inner_1RB_Left	21.17	17.92	38.45	PASS
N5	15	5	DFT-64QAM	L	Inner_1RB_Right	21.12	17.87	38.45	PASS
N5	15	5	DFT-64QAM	L	Outer_Full	20.88	17.63	38.45	PASS
N5	15	5	DFT-256QAM	L	Inner_1RB_Left	19.1	15.85	38.45	PASS
N5	15	5	DFT-256QAM	L	Inner_1RB_Right	18.88	15.63	38.45	PASS
N5	15	5	DFT-256QAM	L	Outer_Full	19.04	15.79	38.45	PASS
N5	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	23.41	20.16	38.45	PASS
N5	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	23.52	20.27	38.45	PASS
N5	15	5	DFT-PI2BPSK	M	Outer_Full	22.97	19.72	38.45	PASS
N5	15	5	DFT-QPSK	M	Inner_1RB_Left	23.31	20.06	38.45	PASS
N5	15	5	DFT-QPSK	M	Inner_1RB_Right	23.39	20.14	38.45	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	22.4	19.15	38.45	PASS
N5	15	5	DFT-16QAM	M	Inner_1RB_Left	22.43	19.18	38.45	PASS
N5	15	5	DFT-16QAM	M	Inner_1RB_Right	22.39	19.14	38.45	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	21.41	18.16	38.45	PASS
N5	15	5	DFT-64QAM	M	Inner_1RB_Left	21.09	17.84	38.45	PASS
N5	15	5	DFT-64QAM	M	Inner_1RB_Right	21.12	17.87	38.45	PASS
N5	15	5	DFT-64QAM	M	Outer_Full	20.95	17.7	38.45	PASS
N5	15	5	DFT-256QAM	M	Inner_1RB_Left	18.63	15.38	38.45	PASS
N5	15	5	DFT-256QAM	M	Inner_1RB_Right	18.77	15.52	38.45	PASS
N5	15	5	DFT-256QAM	M	Outer_Full	18.83	15.58	38.45	PASS
N5	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	23.5	20.25	38.45	PASS



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N5	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	23.63	20.38	38.45	PASS
N5	15	5	DFT-PI2BPSK	H	Outer_Full	23.08	19.83	38.45	PASS
N5	15	5	DFT-QPSK	H	Inner_1RB_Left	23.42	20.17	38.45	PASS
N5	15	5	DFT-QPSK	H	Inner_1RB_Right	23.5	20.25	38.45	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	22.56	19.31	38.45	PASS
N5	15	5	DFT-16QAM	H	Inner_1RB_Left	22.52	19.27	38.45	PASS
N5	15	5	DFT-16QAM	H	Inner_1RB_Right	22.61	19.36	38.45	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	21.6	18.35	38.45	PASS
N5	15	5	DFT-64QAM	H	Inner_1RB_Left	21.24	17.99	38.45	PASS
N5	15	5	DFT-64QAM	H	Inner_1RB_Right	21.33	18.08	38.45	PASS
N5	15	5	DFT-64QAM	H	Outer_Full	21.08	17.83	38.45	PASS
N5	15	5	DFT-256QAM	H	Inner_1RB_Left	18.49	15.24	38.45	PASS
N5	15	5	DFT-256QAM	H	Inner_1RB_Right	18.61	15.36	38.45	PASS
N5	15	5	DFT-256QAM	H	Outer_Full	18.99	15.74	38.45	PASS
N5	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	23.5	20.25	38.45	PASS
N5	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	23.39	20.14	38.45	PASS
N5	15	10	DFT-PI2BPSK	L	Outer_Full	22.89	19.64	38.45	PASS
N5	15	10	DFT-QPSK	L	Inner_1RB_Left	23.44	20.19	38.45	PASS
N5	15	10	DFT-QPSK	L	Inner_1RB_Right	23.25	20	38.45	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	22.45	19.2	38.45	PASS
N5	15	10	DFT-16QAM	L	Inner_1RB_Left	22.44	19.19	38.45	PASS
N5	15	10	DFT-16QAM	L	Inner_1RB_Right	22.35	19.1	38.45	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	21.41	18.16	38.45	PASS
N5	15	10	DFT-64QAM	L	Inner_1RB_Left	21.23	17.98	38.45	PASS
N5	15	10	DFT-64QAM	L	Inner_1RB_Right	21.08	17.83	38.45	PASS
N5	15	10	DFT-64QAM	L	Outer_Full	21	17.75	38.45	PASS
N5	15	10	DFT-256QAM	L	Inner_1RB_Left	18.52	15.27	38.45	PASS
N5	15	10	DFT-256QAM	L	Inner_1RB_Right	18.31	15.06	38.45	PASS
N5	15	10	DFT-256QAM	L	Outer_Full	18.9	15.65	38.45	PASS
N5	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	23.38	20.13	38.45	PASS
N5	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	23.5	20.25	38.45	PASS
N5	15	10	DFT-PI2BPSK	M	Outer_Full	22.93	19.68	38.45	PASS
N5	15	10	DFT-QPSK	M	Inner_1RB_Left	23.21	19.96	38.45	PASS
N5	15	10	DFT-QPSK	M	Inner_1RB_Right	23.44	20.19	38.45	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	22.47	19.22	38.45	PASS
N5	15	10	DFT-16QAM	M	Inner_1RB_Left	22.35	19.1	38.45	PASS
N5	15	10	DFT-16QAM	M	Inner_1RB_Right	22.48	19.23	38.45	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	21.37	18.12	38.45	PASS



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N5	15	10	DFT-64QAM	M	Inner_1RB_Left	20.95	17.7	38.45	PASS
N5	15	10	DFT-64QAM	M	Inner_1RB_Right	21.22	17.97	38.45	PASS
N5	15	10	DFT-64QAM	M	Outer_Full	20.9	17.65	38.45	PASS
N5	15	10	DFT-256QAM	M	Inner_1RB_Left	18.63	15.38	38.45	PASS
N5	15	10	DFT-256QAM	M	Inner_1RB_Right	18.48	15.23	38.45	PASS
N5	15	10	DFT-256QAM	M	Outer_Full	18.83	15.58	38.45	PASS
N5	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	23.54	20.29	38.45	PASS
N5	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	23.65	20.4	38.45	PASS
N5	15	10	DFT-PI2BPSK	H	Outer_Full	23.13	19.88	38.45	PASS
N5	15	10	DFT-QPSK	H	Inner_1RB_Left	23.4	20.15	38.45	PASS
N5	15	10	DFT-QPSK	H	Inner_1RB_Right	23.58	20.33	38.45	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	22.57	19.32	38.45	PASS
N5	15	10	DFT-16QAM	H	Inner_1RB_Left	22.44	19.19	38.45	PASS
N5	15	10	DFT-16QAM	H	Inner_1RB_Right	22.63	19.38	38.45	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	21.61	18.36	38.45	PASS
N5	15	10	DFT-64QAM	H	Inner_1RB_Left	21.14	17.89	38.45	PASS
N5	15	10	DFT-64QAM	H	Inner_1RB_Right	21.33	18.08	38.45	PASS
N5	15	10	DFT-64QAM	H	Outer_Full	21.05	17.8	38.45	PASS
N5	15	10	DFT-256QAM	H	Inner_1RB_Left	18.44	15.19	38.45	PASS
N5	15	10	DFT-256QAM	H	Inner_1RB_Right	18.57	15.32	38.45	PASS
N5	15	10	DFT-256QAM	H	Outer_Full	18.99	15.74	38.45	PASS
N5	15	15	DFT-PI2BPSK	L	Inner_1RB_Left	23.63	20.38	38.45	PASS
N5	15	15	DFT-PI2BPSK	L	Inner_1RB_Right	23.71	20.46	38.45	PASS
N5	15	15	DFT-PI2BPSK	L	Outer_Full	23.14	19.89	38.45	PASS
N5	15	15	DFT-QPSK	L	Inner_1RB_Left	23.58	20.33	38.45	PASS
N5	15	15	DFT-QPSK	L	Inner_1RB_Right	23.58	20.33	38.45	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	22.61	19.36	38.45	PASS
N5	15	15	DFT-16QAM	L	Inner_1RB_Left	22.62	19.37	38.45	PASS
N5	15	15	DFT-16QAM	L	Inner_1RB_Right	22.66	19.41	38.45	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	21.67	18.42	38.45	PASS
N5	15	15	DFT-64QAM	L	Inner_1RB_Left	21.38	18.13	38.45	PASS
N5	15	15	DFT-64QAM	L	Inner_1RB_Right	21.27	18.02	38.45	PASS
N5	15	15	DFT-64QAM	L	Outer_Full	21.2	17.95	38.45	PASS
N5	15	15	DFT-256QAM	L	Inner_1RB_Left	18.63	15.38	38.45	PASS
N5	15	15	DFT-256QAM	L	Inner_1RB_Right	18.75	15.5	38.45	PASS
N5	15	15	DFT-256QAM	L	Outer_Full	18.55	15.3	38.45	PASS
N5	15	15	DFT-PI2BPSK	M	Inner_1RB_Left	23.58	20.33	38.45	PASS
N5	15	15	DFT-PI2BPSK	M	Inner_1RB_Right	23.61	20.36	38.45	PASS



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N5	15	15	DFT-PI2BPSK	M	Outer_Full	23.13	19.88	38.45	PASS
N5	15	15	DFT-QPSK	M	Inner_1RB_Left	23.41	20.16	38.45	PASS
N5	15	15	DFT-QPSK	M	Inner_1RB_Right	23.46	20.21	38.45	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	22.64	19.39	38.45	PASS
N5	15	15	DFT-16QAM	M	Inner_1RB_Left	22.48	19.23	38.45	PASS
N5	15	15	DFT-16QAM	M	Inner_1RB_Right	22.53	19.28	38.45	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	21.65	18.4	38.45	PASS
N5	15	15	DFT-64QAM	M	Inner_1RB_Left	21.25	18	38.45	PASS
N5	15	15	DFT-64QAM	M	Inner_1RB_Right	21.28	18.03	38.45	PASS
N5	15	15	DFT-64QAM	M	Outer_Full	21.13	17.88	38.45	PASS
N5	15	15	DFT-256QAM	M	Inner_1RB_Left	18.74	15.49	38.45	PASS
N5	15	15	DFT-256QAM	M	Inner_1RB_Right	18.63	15.38	38.45	PASS
N5	15	15	DFT-256QAM	M	Outer_Full	18.45	15.2	38.45	PASS
N5	15	15	DFT-PI2BPSK	H	Inner_1RB_Left	23.59	20.34	38.45	PASS
N5	15	15	DFT-PI2BPSK	H	Inner_1RB_Right	23.67	20.42	38.45	PASS
N5	15	15	DFT-PI2BPSK	H	Outer_Full	23.2	19.95	38.45	PASS
N5	15	15	DFT-QPSK	H	Inner_1RB_Left	23.45	20.2	38.45	PASS
N5	15	15	DFT-QPSK	H	Inner_1RB_Right	23.63	20.38	38.45	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	22.67	19.42	38.45	PASS
N5	15	15	DFT-16QAM	H	Inner_1RB_Left	22.53	19.28	38.45	PASS
N5	15	15	DFT-16QAM	H	Inner_1RB_Right	22.74	19.49	38.45	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	21.67	18.42	38.45	PASS
N5	15	15	DFT-64QAM	H	Inner_1RB_Left	21.29	18.04	38.45	PASS
N5	15	15	DFT-64QAM	H	Inner_1RB_Right	21.32	18.07	38.45	PASS
N5	15	15	DFT-64QAM	H	Outer_Full	21.24	17.99	38.45	PASS
N5	15	15	DFT-256QAM	H	Inner_1RB_Left	18.6	15.35	38.45	PASS
N5	15	15	DFT-256QAM	H	Inner_1RB_Right	18.57	15.32	38.45	PASS
N5	15	15	DFT-256QAM	H	Outer_Full	19.13	15.88	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Inner_1RB_Left	23.65	20.4	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Inner_1RB_Right	23.56	20.31	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Outer_Full	23.16	19.91	38.45	PASS
N5	15	20	DFT-QPSK	L	Inner_1RB_Left	23.54	20.29	38.45	PASS
N5	15	20	DFT-QPSK	L	Inner_1RB_Right	23.5	20.25	38.45	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	22.56	19.31	38.45	PASS
N5	15	20	DFT-16QAM	L	Inner_1RB_Left	22.64	19.39	38.45	PASS
N5	15	20	DFT-16QAM	L	Inner_1RB_Right	22.59	19.34	38.45	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	21.62	18.37	38.45	PASS
N5	15	20	DFT-64QAM	L	Inner_1RB_Left	21.33	18.08	38.45	PASS



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N5	15	20	DFT-64QAM	L	Inner_1RB_Right	21.28	18.03	38.45	PASS
N5	15	20	DFT-64QAM	L	Outer_Full	21.18	17.93	38.45	PASS
N5	15	20	DFT-256QAM	L	Inner_1RB_Left	18.68	15.43	38.45	PASS
N5	15	20	DFT-256QAM	L	Inner_1RB_Right	18.65	15.4	38.45	PASS
N5	15	20	DFT-256QAM	L	Outer_Full	19.13	15.88	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Inner_1RB_Left	23.58	20.33	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Inner_1RB_Right	23.65	20.4	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	23.19	19.94	38.45	PASS
N5	15	20	DFT-QPSK	M	Inner_1RB_Left	23.41	20.16	38.45	PASS
N5	15	20	DFT-QPSK	M	Inner_1RB_Right	23.48	20.23	38.45	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	22.62	19.37	38.45	PASS
N5	15	20	DFT-16QAM	M	Inner_1RB_Left	22.55	19.3	38.45	PASS
N5	15	20	DFT-16QAM	M	Inner_1RB_Right	22.56	19.31	38.45	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	21.65	18.4	38.45	PASS
N5	15	20	DFT-64QAM	M	Inner_1RB_Left	21.2	17.95	38.45	PASS
N5	15	20	DFT-64QAM	M	Inner_1RB_Right	21.31	18.06	38.45	PASS
N5	15	20	DFT-64QAM	M	Outer_Full	21.22	17.97	38.45	PASS
N5	15	20	DFT-256QAM	M	Inner_1RB_Left	18.63	15.38	38.45	PASS
N5	15	20	DFT-256QAM	M	Inner_1RB_Right	18.73	15.48	38.45	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	19.18	15.93	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Inner_1RB_Left	23.51	20.26	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Inner_1RB_Right	23.68	20.43	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Outer_Full	23.25	20	38.45	PASS
N5	15	20	DFT-QPSK	H	Inner_1RB_Left	23.45	20.2	38.45	PASS
N5	15	20	DFT-QPSK	H	Inner_1RB_Right	23.59	20.34	38.45	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	22.7	19.45	38.45	PASS
N5	15	20	DFT-16QAM	H	Inner_1RB_Left	22.54	19.29	38.45	PASS
N5	15	20	DFT-16QAM	H	Inner_1RB_Right	22.62	19.37	38.45	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	21.55	18.3	38.45	PASS
N5	15	20	DFT-64QAM	H	Inner_1RB_Left	21.2	17.95	38.45	PASS
N5	15	20	DFT-64QAM	H	Inner_1RB_Right	21.36	18.11	38.45	PASS
N5	15	20	DFT-64QAM	H	Outer_Full	21.2	17.95	38.45	PASS
N5	15	20	DFT-256QAM	H	Inner_1RB_Left	18.48	15.23	38.45	PASS
N5	15	20	DFT-256QAM	H	Inner_1RB_Right	18.71	15.46	38.45	PASS
N5	15	20	DFT-256QAM	H	Outer_Full	19.13	15.88	38.45	PASS



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## Peak-to-Average Ratio for SA

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	DutyCycle	Factor	Result	Limit	Verdict
N5	15	20	DFT-256QAM	L	Outer_Full	100%	0.00	8.77	≤13	PASS
N5	15	20	CP-256QAM	L	Outer_Full	100%	0.00	9.23	≤13	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	100%	0.00	8.65	≤13	PASS
N5	15	20	CP-256QAM	M	Outer_Full	100%	0.00	9.26	≤13	PASS
N5	15	20	DFT-256QAM	H	Outer_Full	100%	0.00	8.86	≤13	PASS
N5	15	20	CP-256QAM	H	Outer_Full	100%	0.00	9.25	≤13	PASS

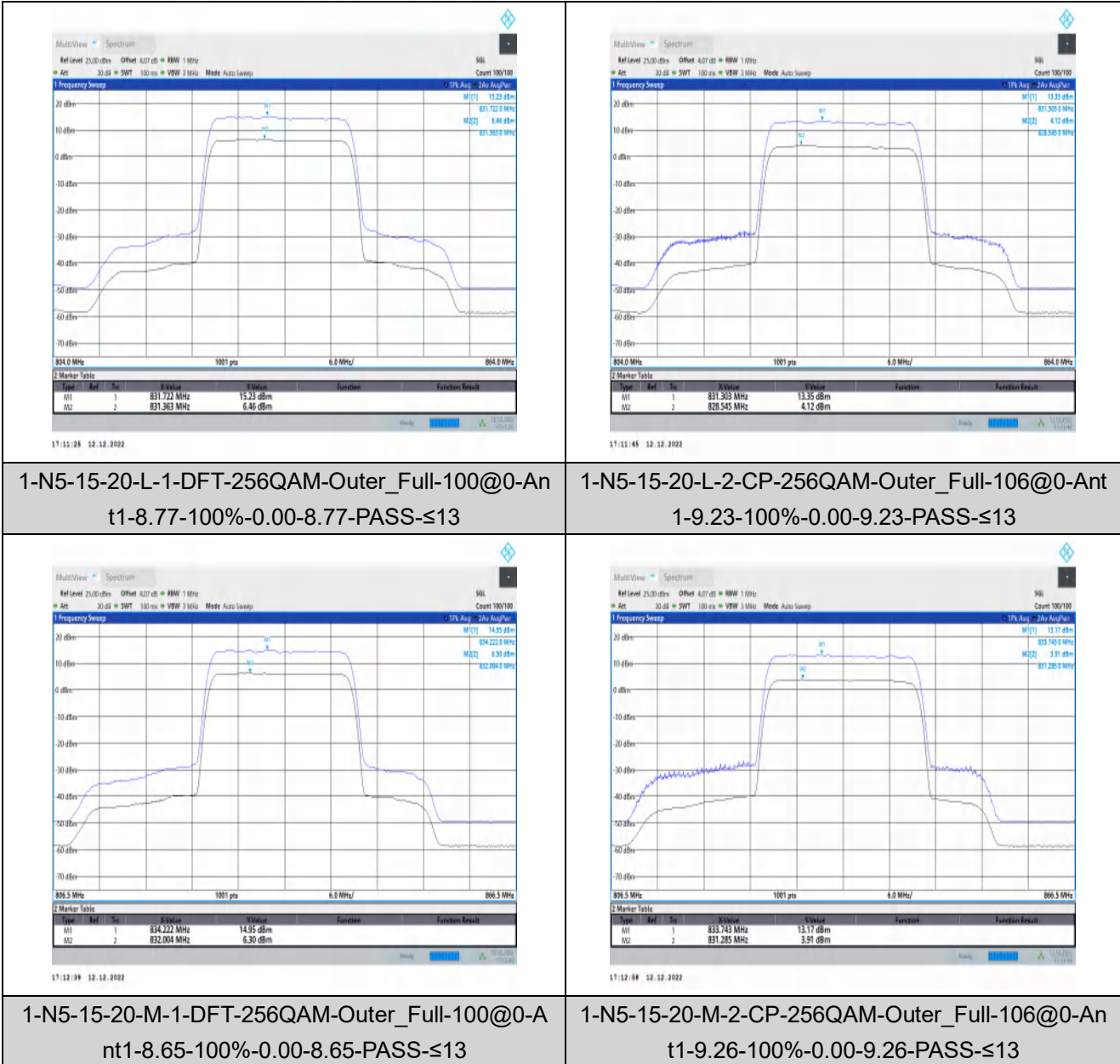


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Test Graphs



1-N5-15-20-L-1-DFT-256QAM-Outer\_Full-100@0-Ant  
 t1-8.77-100%-0.00-8.77-PASS-≤13

1-N5-15-20-L-2-CP-256QAM-Outer\_Full-106@0-Ant  
 t1-9.23-100%-0.00-9.23-PASS-≤13

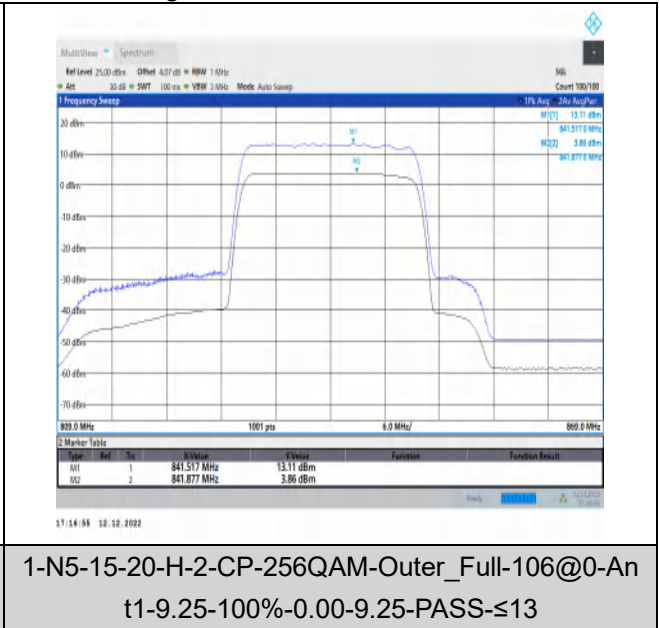
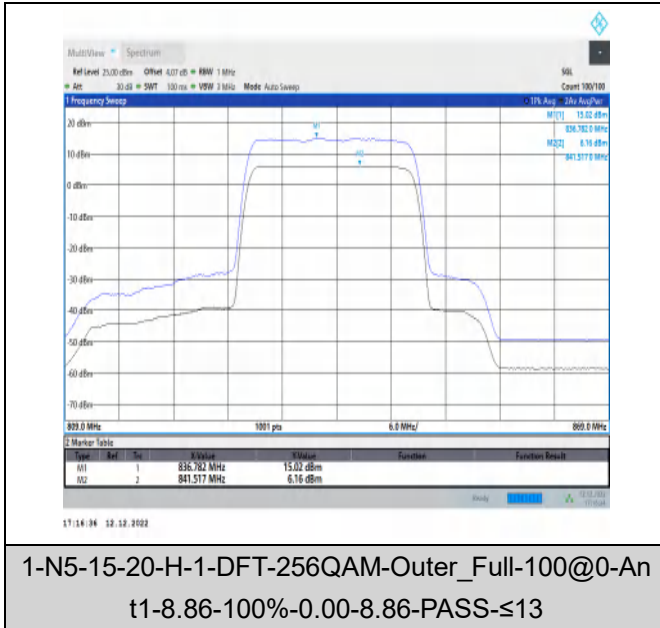
1-N5-15-20-M-1-DFT-256QAM-Outer\_Full-100@0-A  
 nt1-8.65-100%-0.00-8.65-PASS-≤13

1-N5-15-20-M-2-CP-256QAM-Outer\_Full-106@0-Ant  
 t1-9.26-100%-0.00-9.26-PASS-≤13



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1-N5-15-20-H-1-DFT-256QAM-Outer\_Full-100@0-An  
t1-8.86-100%-0.00-8.86-PASS-≤13

1-N5-15-20-H-2-CP-256QAM-Outer\_Full-106@0-An  
t1-9.25-100%-0.00-9.25-PASS-≤13



## Modulation characteristics for SA

### Test Result

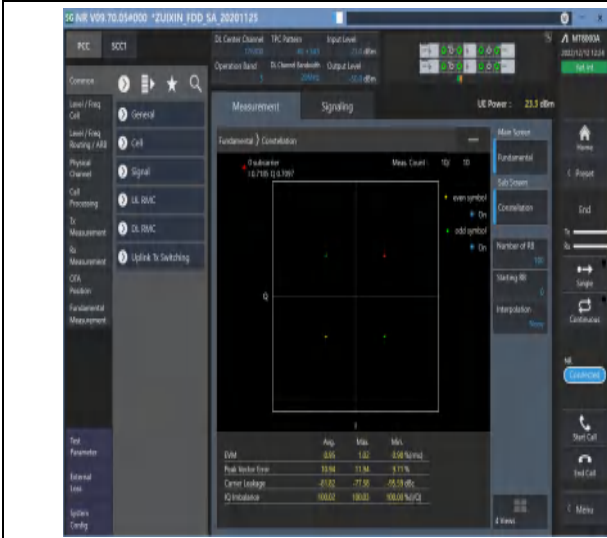
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	see graph	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	see graph	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	see graph	PASS
N5	15	20	DFT-64QAM	M	Outer_Full	see graph	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	see graph	PASS
N5	15	20	CP-QPSK	M	Outer_Full	see graph	PASS
N5	15	20	CP-16QAM	M	Outer_Full	see graph	PASS
N5	15	20	CP-64QAM	M	Outer_Full	see graph	PASS
N5	15	20	CP-256QAM	M	Outer_Full	see graph	PASS



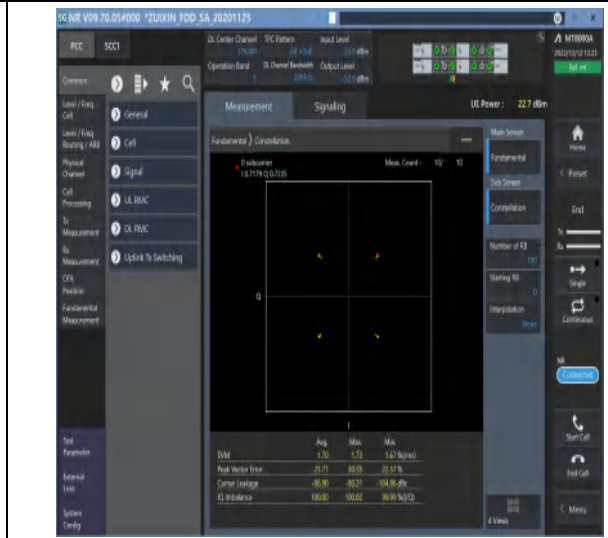
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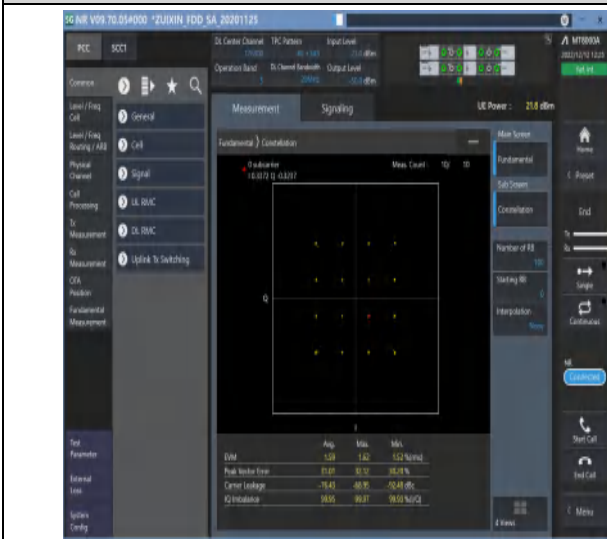
Test Graphs



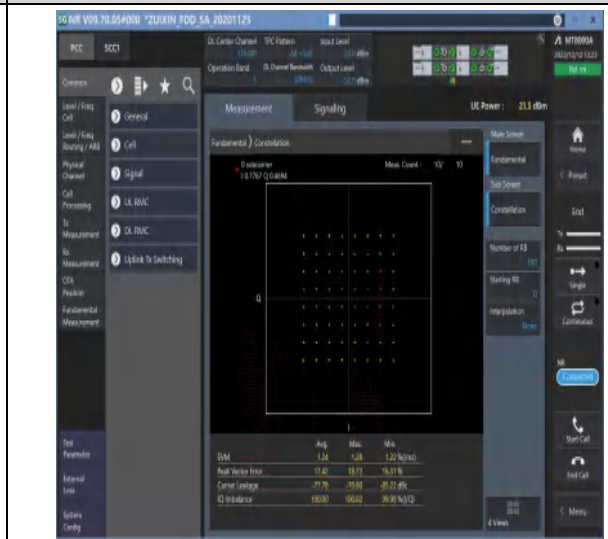
1-N5-15-20-M-1-DFT-PI2BPSK-Outer\_Full-100@0-Ant  
 nt1-see graph-PASS



1-N5-15-20-M-2-DFT-QPSK-Outer\_Full-100@0-Ant  
 1-see graph-PASS



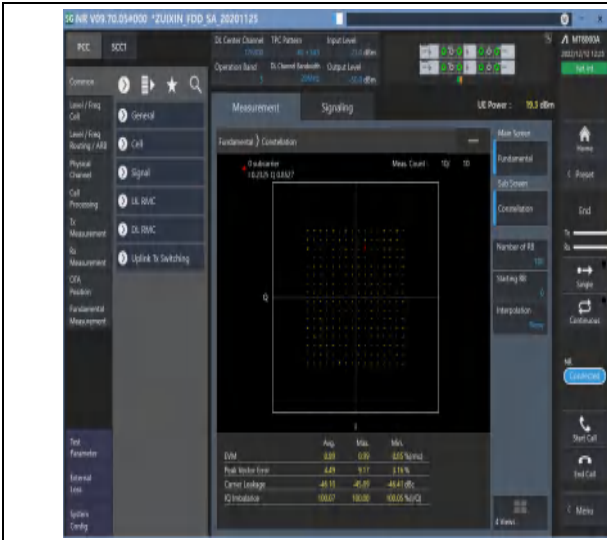
1-N5-15-20-M-3-DFT-16QAM-Outer\_Full-100@0-Ant  
 1-see graph-PASS



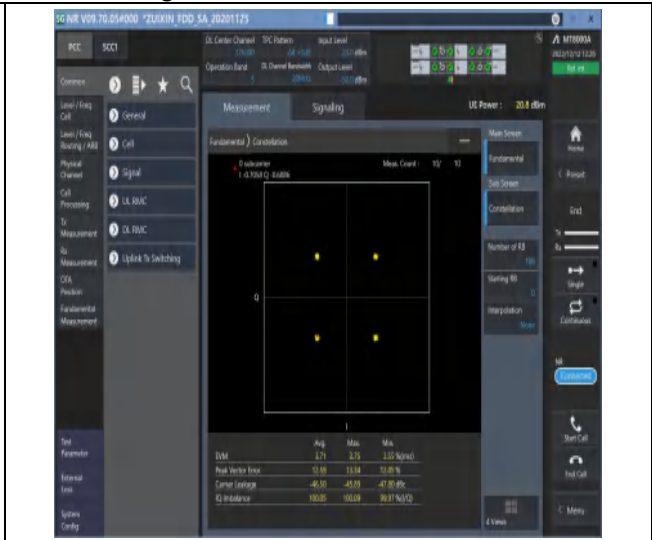
1-N5-15-20-M-4-DFT-64QAM-Outer\_Full-100@0-Ant  
 t1-see graph-PASS



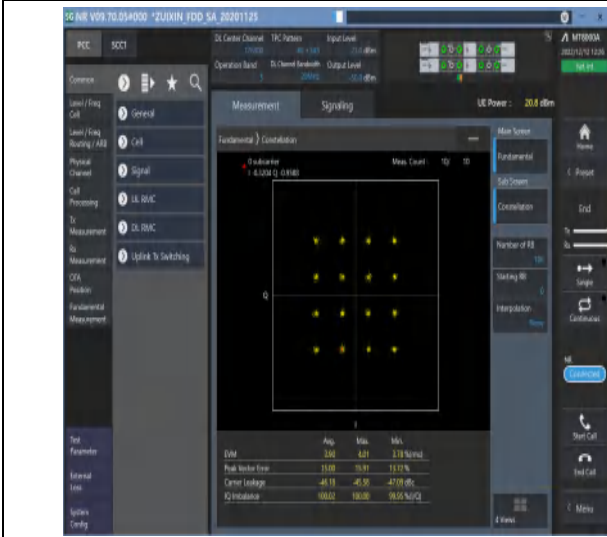
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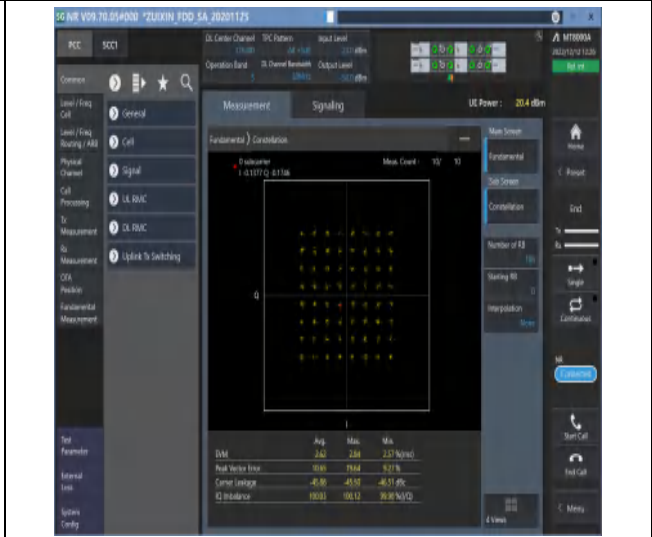
1-N5-15-20-M-5-DFT-256QAM-Outer\_Full-100@0-Ant  
 t1-see graph-PASS



1-N5-15-20-M-6-CP-QPSK-Outer\_Full-106@0-Ant1  
 -see graph-PASS



1-N5-15-20-M-7-CP-16QAM-Outer\_Full-106@0-Ant1-  
 see graph-PASS



1-N5-15-20-M-8-CP-64QAM-Outer\_Full-106@0-Ant  
 1-see graph-PASS





<p>1-N5-15-20-M-9-CP-256QAM-Outer_Full-106@0-Ant 1-see graph-PASS</p>	



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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	L	Outer_Full	4.464	4.980	PASS
N5	15	5	DFT-PI2BPSK	L	Outer_Full	4.482	5.070	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	4.486	5.080	PASS
N5	15	5	DFT-64QAM	L	Outer_Full	4.468	5.020	PASS
N5	15	5	DFT-256QAM	L	Outer_Full	4.48	5.010	PASS
N5	15	5	CP-QPSK	L	Outer_Full	4.481	4.950	PASS
N5	15	5	CP-16QAM	L	Outer_Full	4.478	4.910	PASS
N5	15	5	CP-64QAM	L	Outer_Full	4.482	4.970	PASS
N5	15	5	CP-256QAM	L	Outer_Full	4.484	5.170	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	4.478	4.940	PASS
N5	15	5	DFT-PI2BPSK	M	Outer_Full	4.471	4.930	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	4.485	5.060	PASS
N5	15	5	DFT-64QAM	M	Outer_Full	4.479	5.010	PASS
N5	15	5	DFT-256QAM	M	Outer_Full	4.49	5.110	PASS
N5	15	5	CP-QPSK	M	Outer_Full	4.481	5.170	PASS
N5	15	5	CP-16QAM	M	Outer_Full	4.507	5.150	PASS
N5	15	5	CP-64QAM	M	Outer_Full	4.483	5.090	PASS
N5	15	5	CP-256QAM	M	Outer_Full	4.477	5.060	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	4.478	4.900	PASS
N5	15	5	DFT-PI2BPSK	H	Outer_Full	4.48	5.090	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	4.495	5.070	PASS
N5	15	5	DFT-64QAM	H	Outer_Full	4.473	4.940	PASS
N5	15	5	DFT-256QAM	H	Outer_Full	4.474	4.940	PASS
N5	15	5	CP-QPSK	H	Outer_Full	4.477	5.060	PASS
N5	15	5	CP-16QAM	H	Outer_Full	4.503	5.150	PASS
N5	15	5	CP-64QAM	H	Outer_Full	4.476	5.060	PASS
N5	15	5	CP-256QAM	H	Outer_Full	4.487	5.130	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	8.934	9.680	PASS
N5	15	10	DFT-PI2BPSK	L	Outer_Full	8.907	9.660	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	8.934	9.720	PASS
N5	15	10	DFT-64QAM	L	Outer_Full	8.917	9.520	PASS
N5	15	10	DFT-256QAM	L	Outer_Full	8.918	9.700	PASS



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Report No.: SEWM2212000297RG02

Rev.: 01

Page: 15 of 67

N5	15	10	CP-QPSK	L	Outer_Full	9.287	10.160	PASS
N5	15	10	CP-16QAM	L	Outer_Full	9.28	10.080	PASS
N5	15	10	CP-64QAM	L	Outer_Full	9.267	9.920	PASS
N5	15	10	CP-256QAM	L	Outer_Full	9.309	10.060	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	8.939	9.640	PASS
N5	15	10	DFT-PI2BPSK	M	Outer_Full	8.921	9.540	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	8.948	9.600	PASS
N5	15	10	DFT-64QAM	M	Outer_Full	8.944	9.760	PASS
N5	15	10	DFT-256QAM	M	Outer_Full	8.922	9.660	PASS
N5	15	10	CP-QPSK	M	Outer_Full	9.292	10.140	PASS
N5	15	10	CP-16QAM	M	Outer_Full	9.275	9.960	PASS
N5	15	10	CP-64QAM	M	Outer_Full	9.271	10.000	PASS
N5	15	10	CP-256QAM	M	Outer_Full	9.3	10.020	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	8.9	9.600	PASS
N5	15	10	DFT-PI2BPSK	H	Outer_Full	8.905	9.680	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	8.93	9.560	PASS
N5	15	10	DFT-64QAM	H	Outer_Full	8.93	9.660	PASS
N5	15	10	DFT-256QAM	H	Outer_Full	8.913	9.540	PASS
N5	15	10	CP-QPSK	H	Outer_Full	9.262	10.020	PASS
N5	15	10	CP-16QAM	H	Outer_Full	9.253	9.860	PASS
N5	15	10	CP-64QAM	H	Outer_Full	9.262	10.040	PASS
N5	15	10	CP-256QAM	H	Outer_Full	9.249	9.940	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	13.431	14.370	PASS
N5	15	15	DFT-PI2BPSK	L	Outer_Full	13.415	14.430	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	13.451	14.340	PASS
N5	15	15	DFT-64QAM	L	Outer_Full	13.44	14.340	PASS
N5	15	15	DFT-256QAM	L	Outer_Full	13.438	14.310	PASS
N5	15	15	CP-QPSK	L	Outer_Full	14.109	15.060	PASS
N5	15	15	CP-16QAM	L	Outer_Full	14.072	14.940	PASS
N5	15	15	CP-64QAM	L	Outer_Full	14.152	14.970	PASS
N5	15	15	CP-256QAM	L	Outer_Full	14.127	15.060	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	13.42	14.220	PASS
N5	15	15	DFT-PI2BPSK	M	Outer_Full	13.449	14.280	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	13.439	14.340	PASS
N5	15	15	DFT-64QAM	M	Outer_Full	13.455	14.370	PASS
N5	15	15	DFT-256QAM	M	Outer_Full	13.434	14.400	PASS
N5	15	15	CP-QPSK	M	Outer_Full	14.116	15.030	PASS
N5	15	15	CP-16QAM	M	Outer_Full	14.154	14.970	PASS



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Report No.: SEWM2212000297RG02

Rev.: 01

Page: 16 of 67

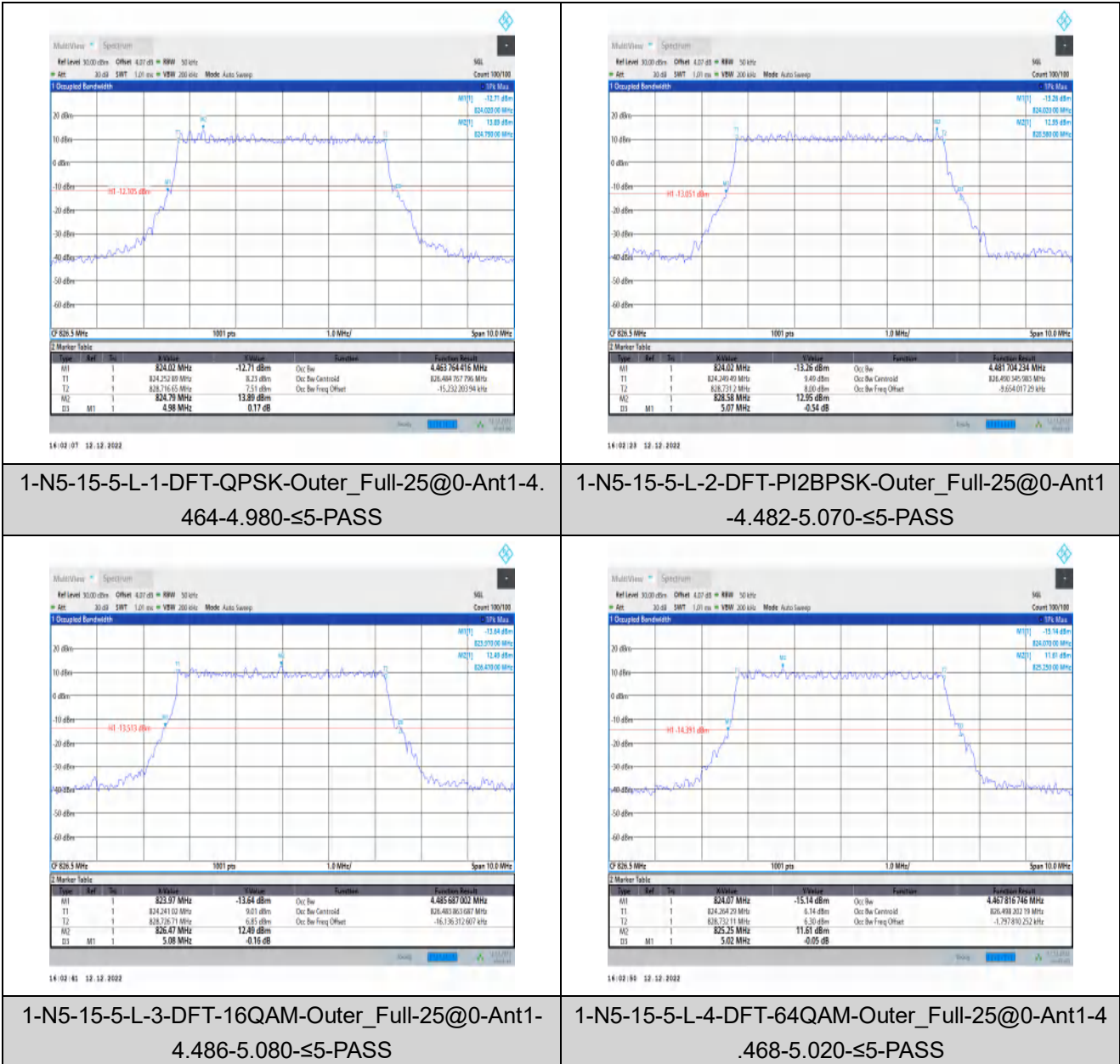
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N5	15	15	DFT-PI2BPSK	H	Outer_Full	13.438	14.430	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	13.418	14.280	PASS
N5	15	15	DFT-64QAM	H	Outer_Full	13.411	14.220	PASS
N5	15	15	DFT-256QAM	H	Outer_Full	13.408	14.310	PASS
N5	15	15	CP-QPSK	H	Outer_Full	14.116	14.970	PASS
N5	15	15	CP-16QAM	H	Outer_Full	14.119	14.940	PASS
N5	15	15	CP-64QAM	H	Outer_Full	14.156	15.030	PASS
N5	15	15	CP-256QAM	H	Outer_Full	14.092	15.060	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	17.879	18.640	PASS
N5	15	20	DFT-PI2BPSK	L	Outer_Full	17.869	18.720	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	17.847	18.840	PASS
N5	15	20	DFT-64QAM	L	Outer_Full	17.914	19.000	PASS
N5	15	20	DFT-256QAM	L	Outer_Full	17.85	18.840	PASS
N5	15	20	CP-QPSK	L	Outer_Full	18.906	19.880	PASS
N5	15	20	CP-16QAM	L	Outer_Full	18.93	19.920	PASS
N5	15	20	CP-64QAM	L	Outer_Full	17.914	19.000	PASS
N5	15	20	CP-256QAM	L	Outer_Full	18.984	19.920	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	17.866	18.960	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	17.857	18.800	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	17.88	18.720	PASS
N5	15	20	DFT-64QAM	M	Outer_Full	17.889	18.840	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	17.867	18.720	PASS
N5	15	20	CP-QPSK	M	Outer_Full	18.903	19.760	PASS
N5	15	20	CP-16QAM	M	Outer_Full	18.877	19.920	PASS
N5	15	20	CP-64QAM	M	Outer_Full	18.873	19.840	PASS
N5	15	20	CP-256QAM	M	Outer_Full	18.982	19.920	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	17.874	18.800	PASS
N5	15	20	DFT-PI2BPSK	H	Outer_Full	17.879	18.680	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	17.858	18.840	PASS
N5	15	20	DFT-64QAM	H	Outer_Full	17.867	18.880	PASS
N5	15	20	DFT-256QAM	H	Outer_Full	17.857	18.760	PASS
N5	15	20	CP-QPSK	H	Outer_Full	18.913	19.800	PASS
N5	15	20	CP-16QAM	H	Outer_Full	18.91	19.960	PASS
N5	15	20	CP-64QAM	H	Outer_Full	18.905	20.000	PASS
N5	15	20	CP-256QAM	H	Outer_Full	18.978	20.040	PASS

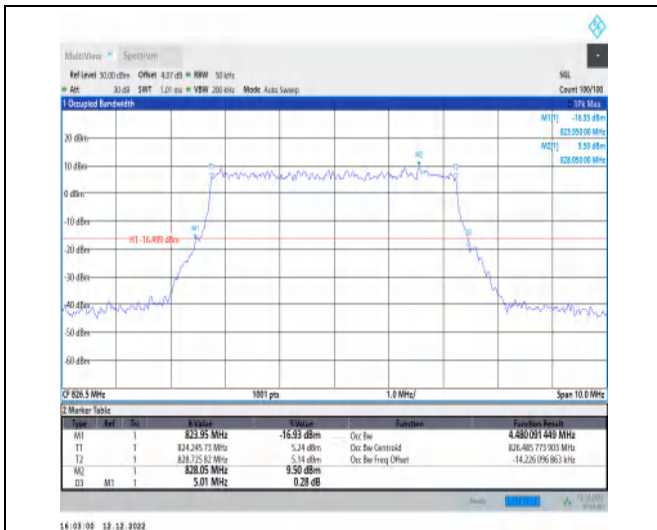


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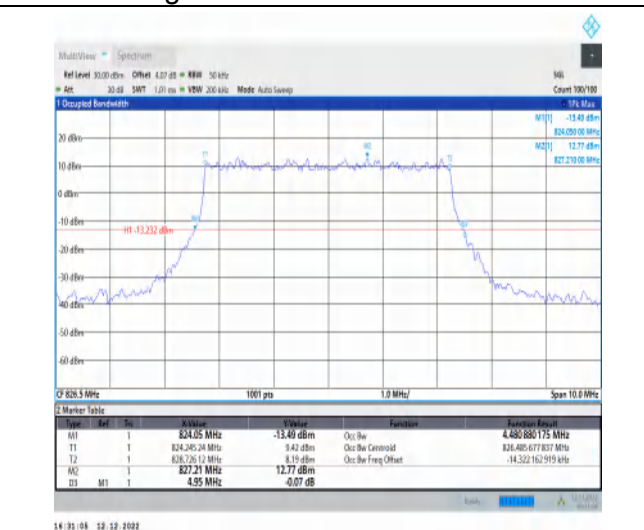


Test Graphs





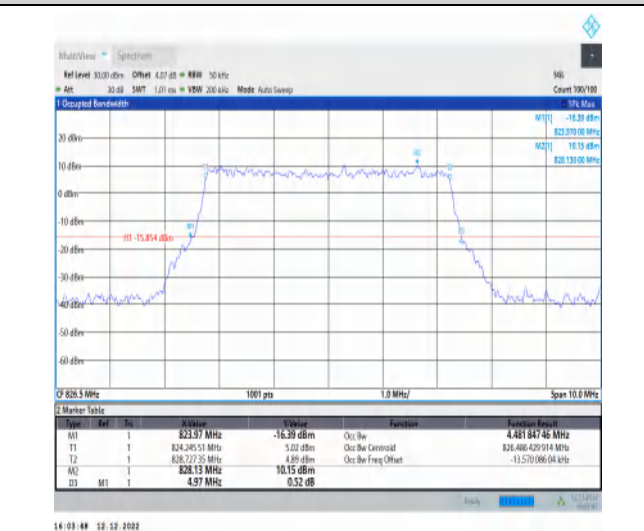
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 -4.48-5.010≤5-PASS



1-N5-15-5-L-6-CP-QPSK-Outer\_Full-25@0-Ant1-4.4  
 81-4.950≤5-PASS



1-N5-15-5-L-7-CP-16QAM-Outer\_Full-25@0-Ant1-4.  
 478-4.910≤5-PASS



1-N5-15-5-L-8-CP-64QAM-Outer\_Full-25@0-Ant1-4.  
 482-4.970≤5-PASS



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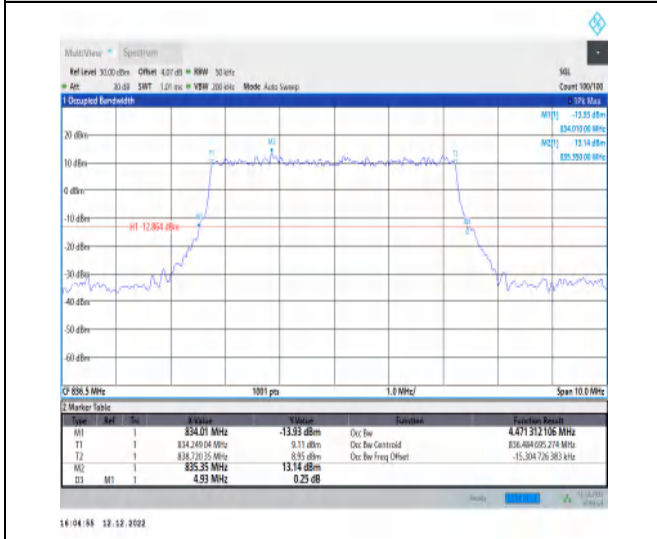
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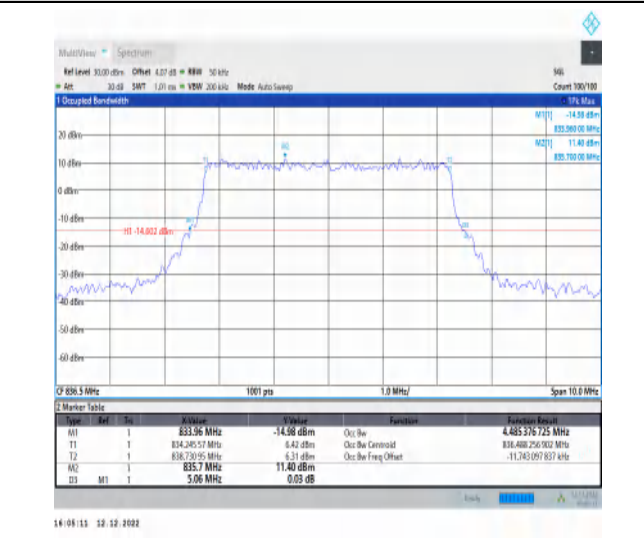
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1-N5-15-5-M-1-DFT-QPSK-Outer\_Full-25@0-Ant1-4.478-4.940-≤5-PASS



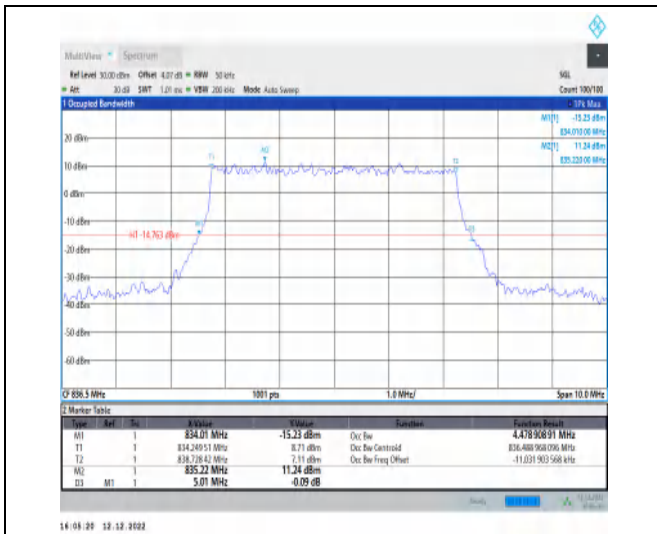
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1-N5-15-5-M-3-DFT-16QAM-Outer\_Full-25@0-Ant1-4.485-5.060-≤5-PASS



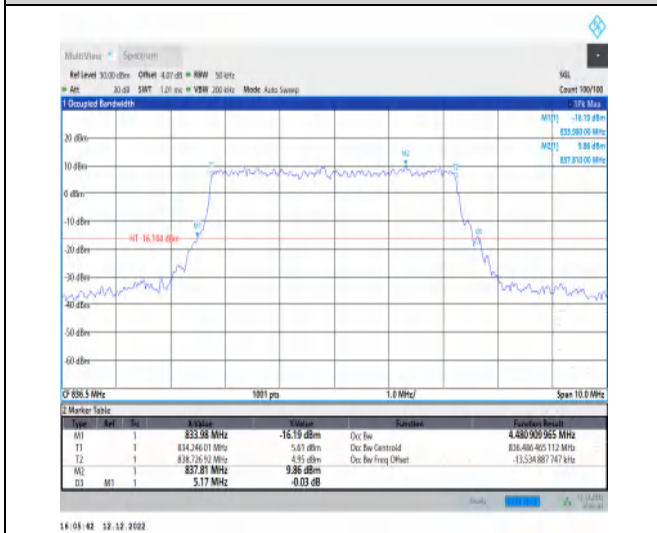




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1-N5-15-5-M-5-DFT-256QAM-Outer\_Full-25@0-Ant1-4.49-5.110-≤5-PASS



1-N5-15-5-M-6-CP-QPSK-Outer\_Full-25@0-Ant1-4.481-5.170-≤5-PASS



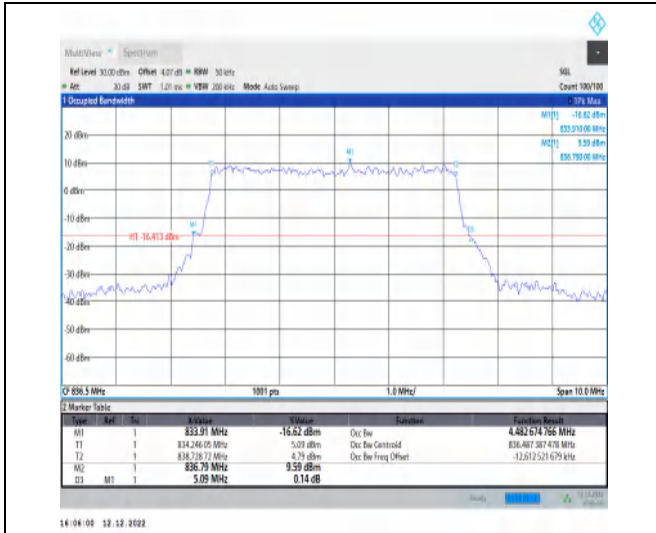
1-N5-15-5-M-7-CP-16QAM-Outer\_Full-25@0-Ant1-4.507-5.150-≤5-PASS



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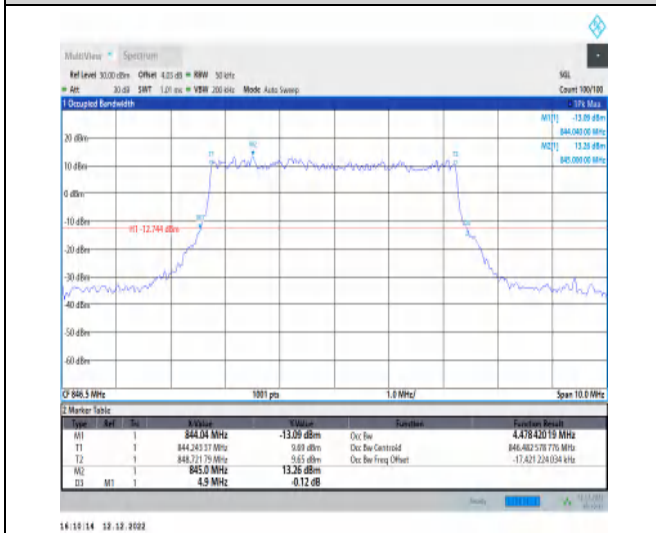




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 4.477-5.060-≤5-PASS

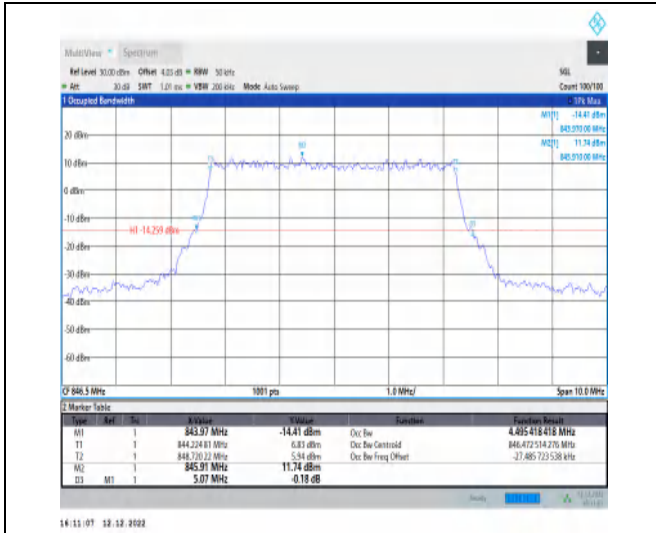


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 478-4.900-≤5-PASS

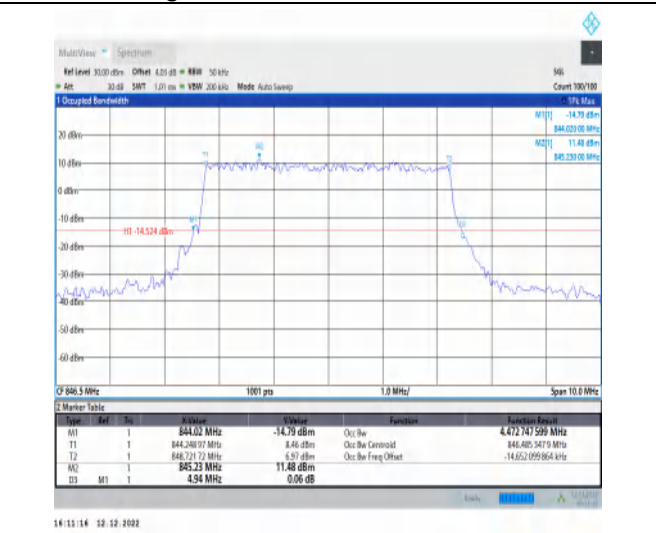


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 -4.48-5.090-≤5-PASS

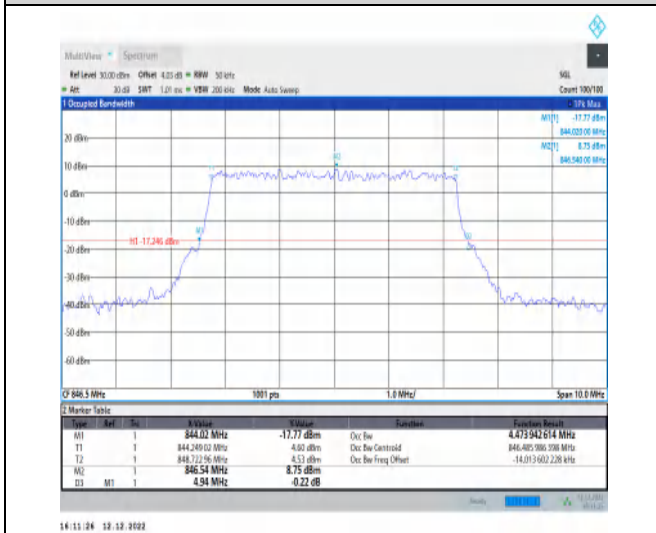




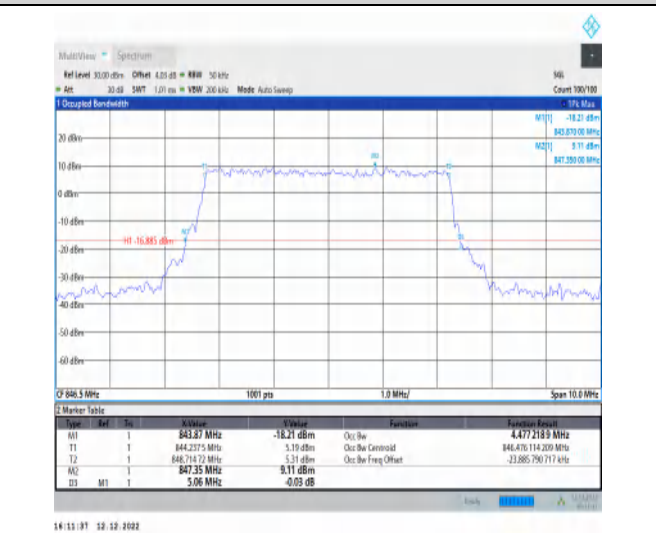
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1-N5-15-5-H-4-DFT-64QAM-Outer\_Full-25@0-Ant1-4.473-4.940-≤5-PASS

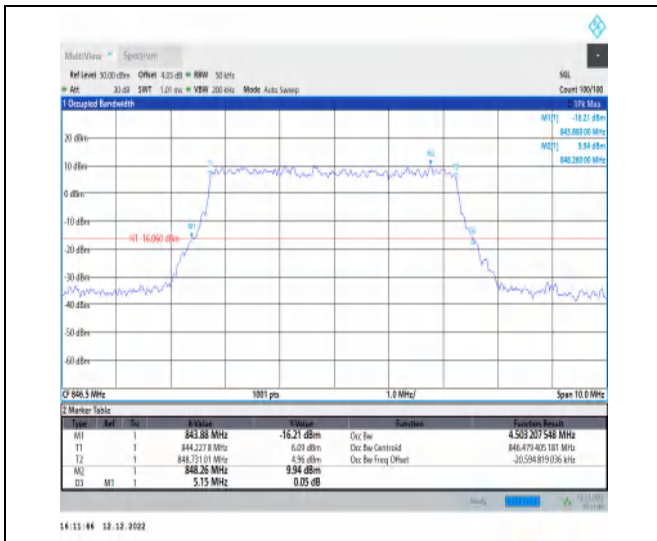


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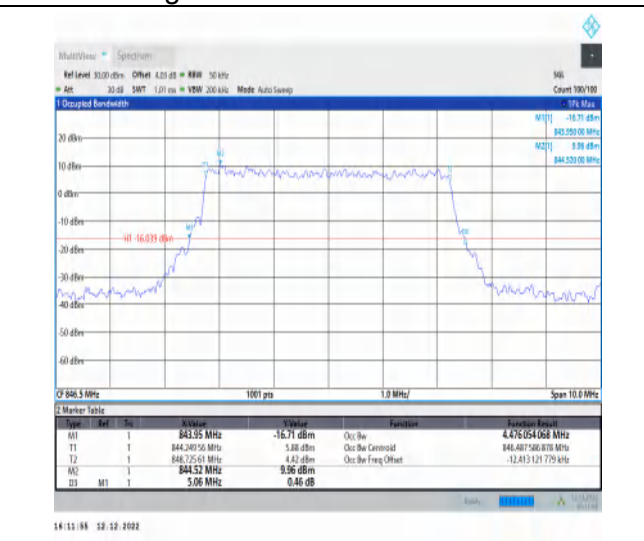


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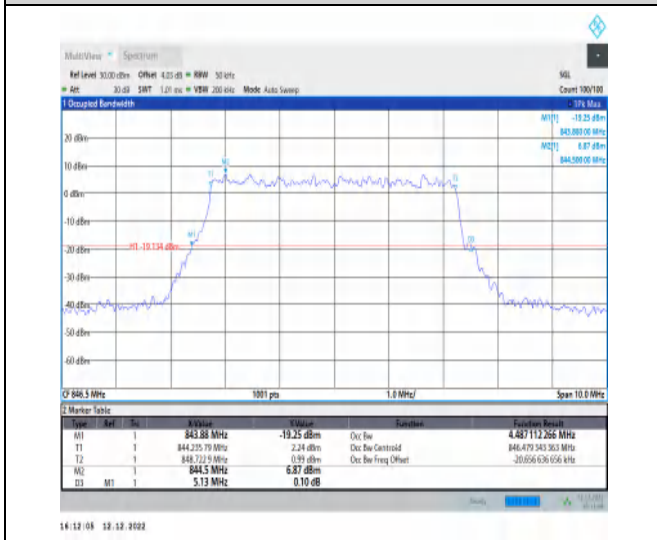




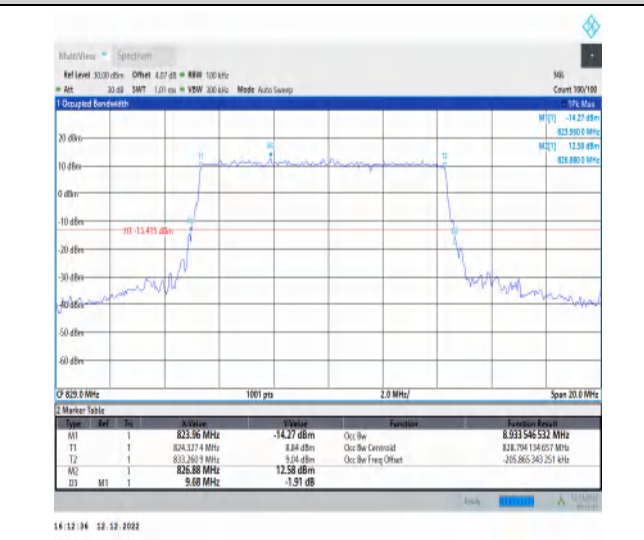
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 476-5.060-≤5-PASS



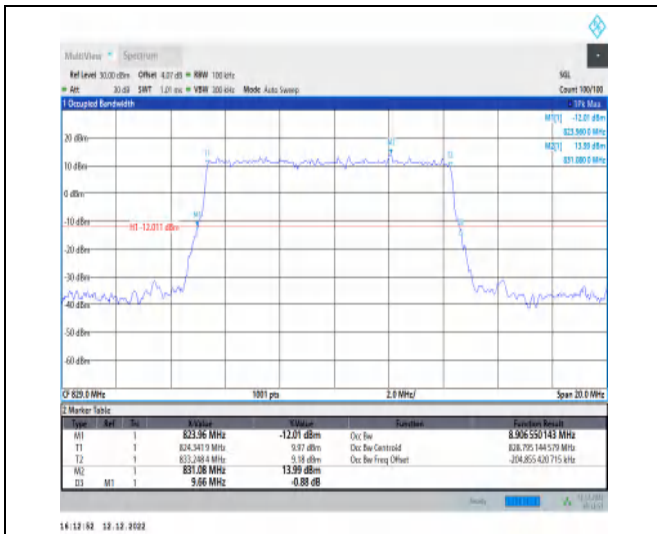
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 4.487-5.130-≤5-PASS



1-N5-15-10-L-1-DFT-QPSK-Outer\_Full-50@0-Ant1-8.  
 .934-9.680-≤10-PASS



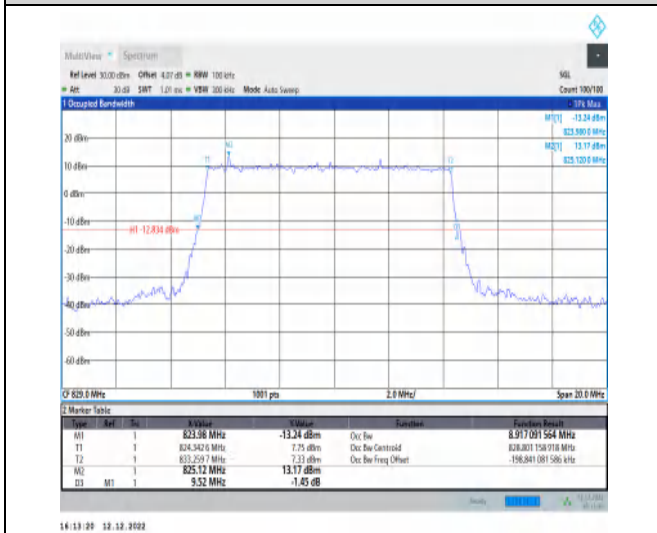




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 1-8.907-9.660≤10-PASS



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 8.934-9.720≤10-PASS



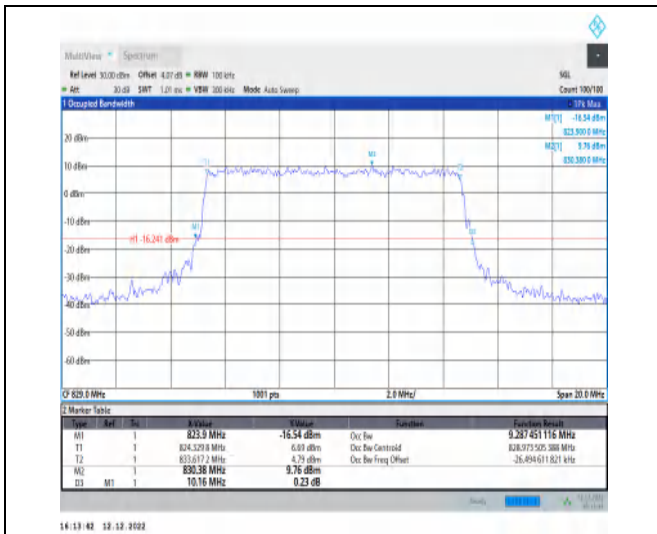
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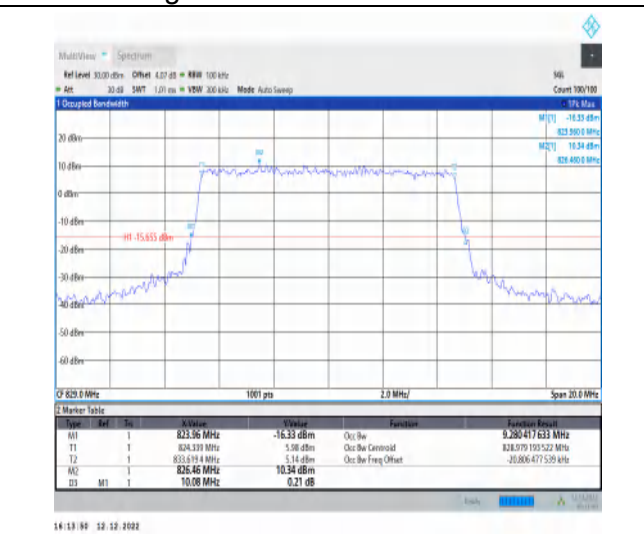
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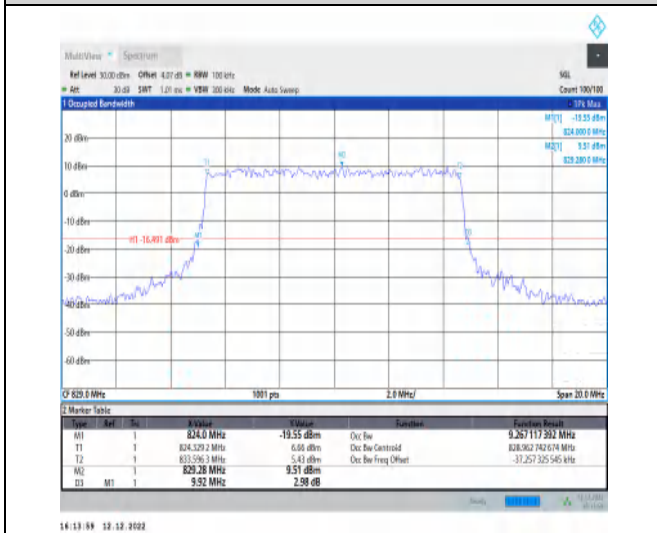




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 287-10.160-≤10-PASS



1-N5-15-10-L-7-CP-16QAM-Outer\_Full-52@0-Ant1-9.  
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1-N5-15-10-L-8-CP-64QAM-Outer\_Full-52@0-Ant1-9.  
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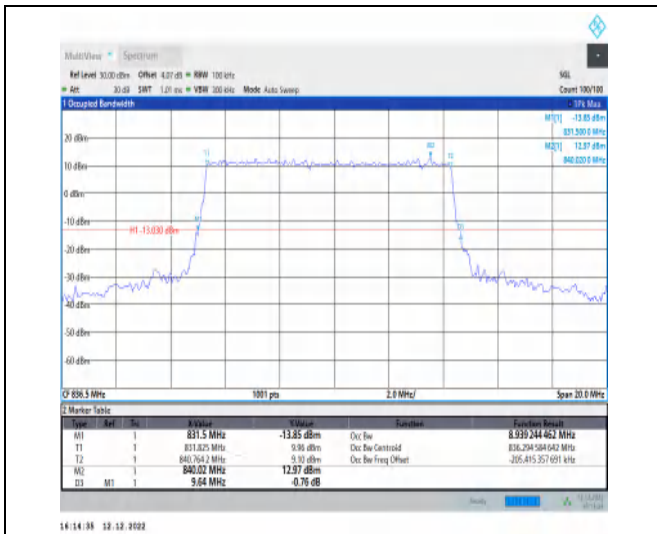


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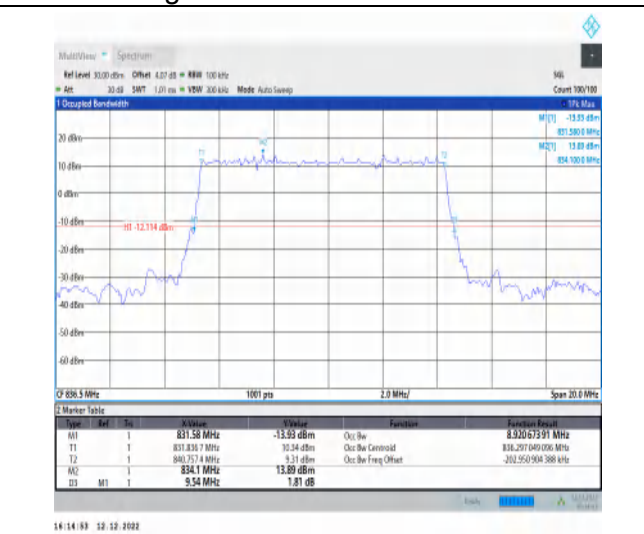


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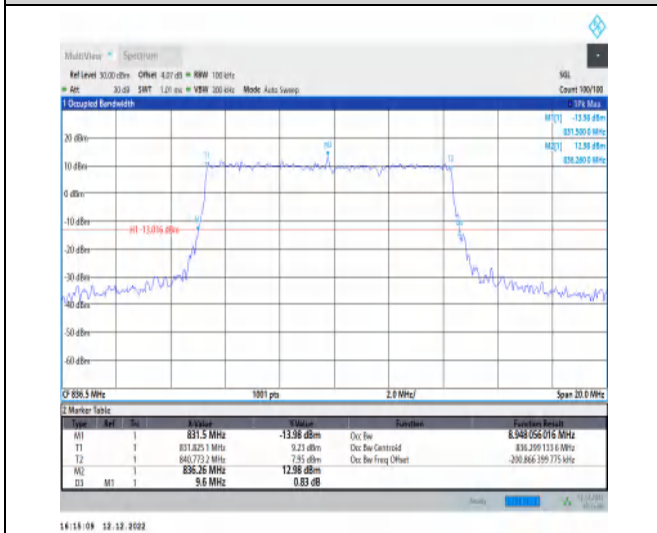
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1-N5-15-10-M-1-DFT-QPSK-Outer\_Full-50@0-Ant1-8.939-9.640-≤10-PASS



1-N5-15-10-M-2-DFT-PI2BPSK-Outer\_Full-50@0-An t1-8.921-9.540-≤10-PASS



1-N5-15-10-M-3-DFT-16QAM-Outer\_Full-50@0-Ant1-8.948-9.600-≤10-PASS



1-N5-15-10-M-4-DFT-64QAM-Outer\_Full-50@0-Ant1-8.944-9.760-≤10-PASS

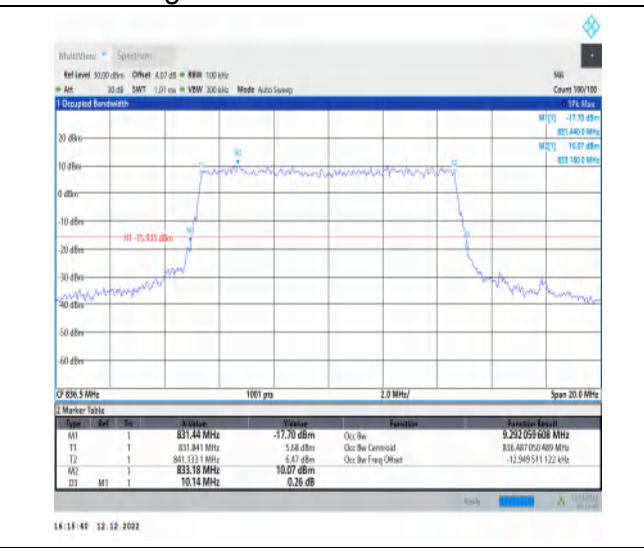


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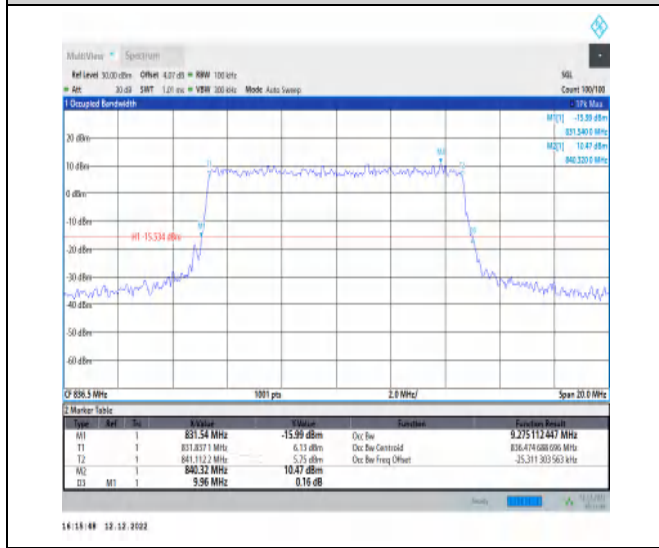
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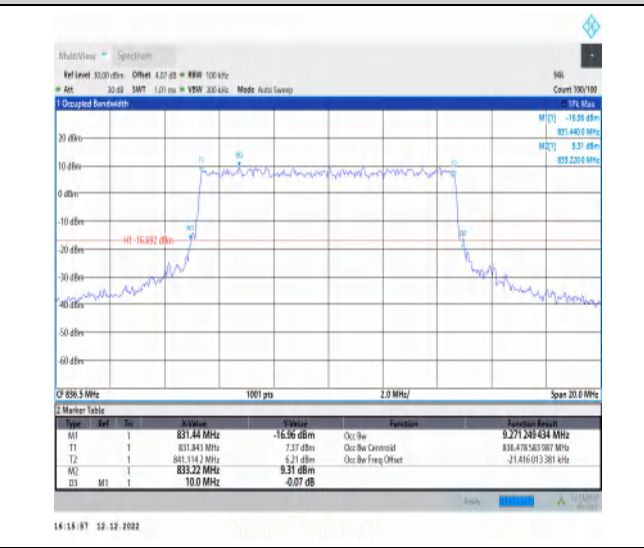
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1-N5-15-10-M-6-CP-QPSK-Outer\_Full-52@0-Ant1-9.  
 292-10.140-≤10-PASS



1-N5-15-10-M-7-CP-16QAM-Outer\_Full-52@0-Ant1-7  
 9.275-9.960-≤10-PASS



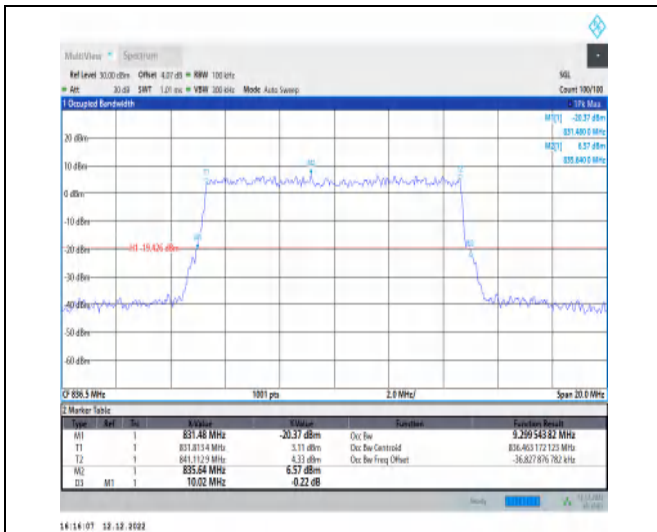
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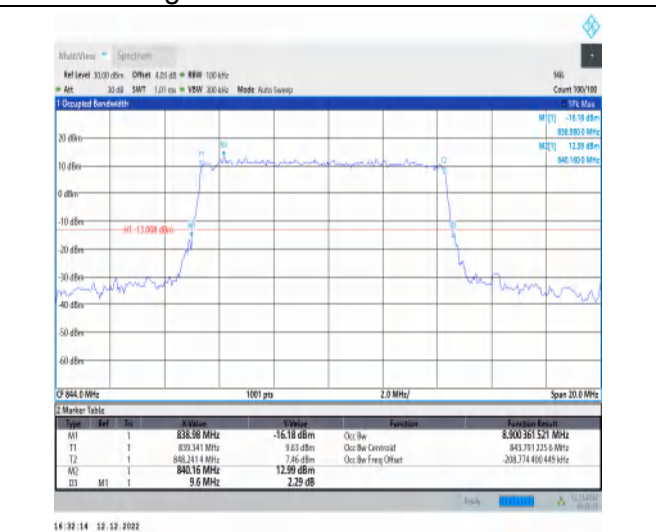
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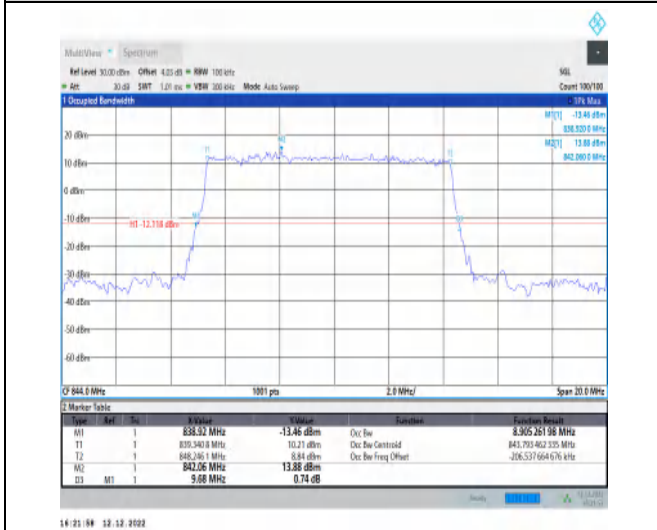




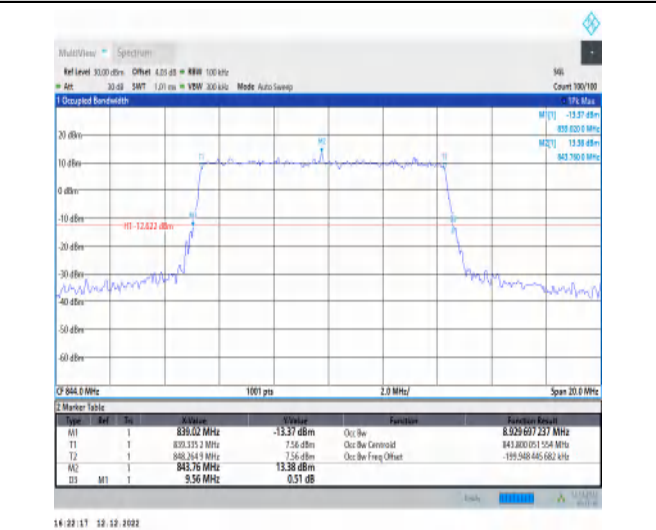
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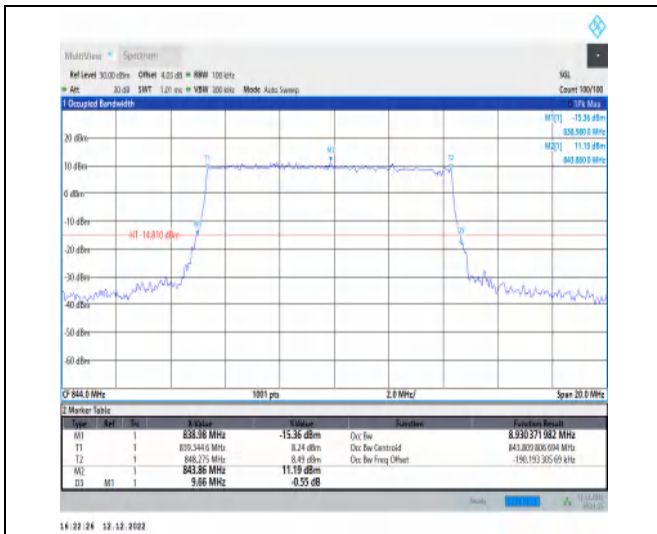
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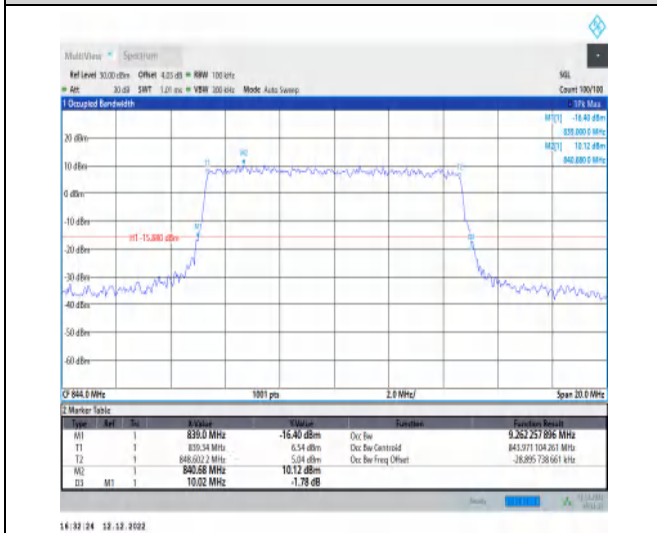




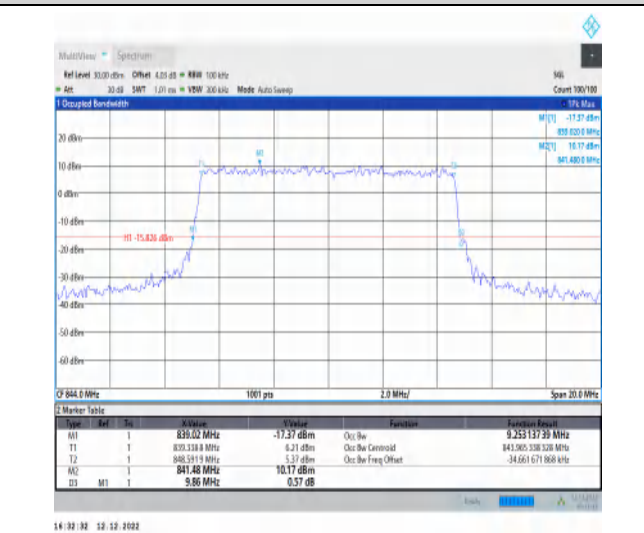
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 1-8.913-9.540-≤10-PASS



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 262-10.020-≤10-PASS

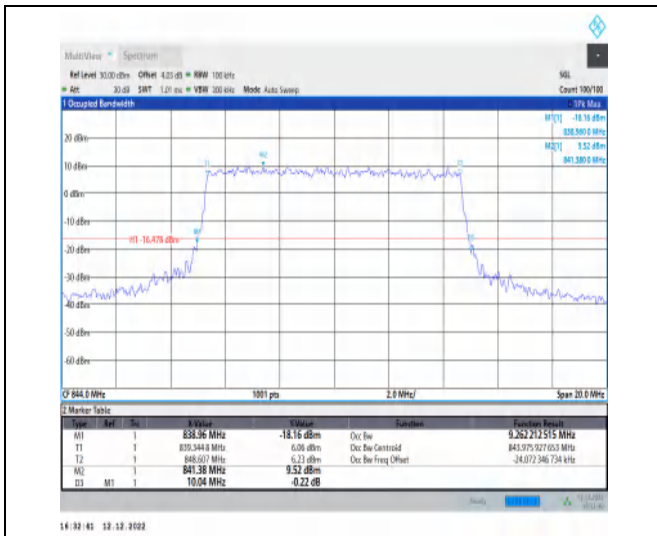


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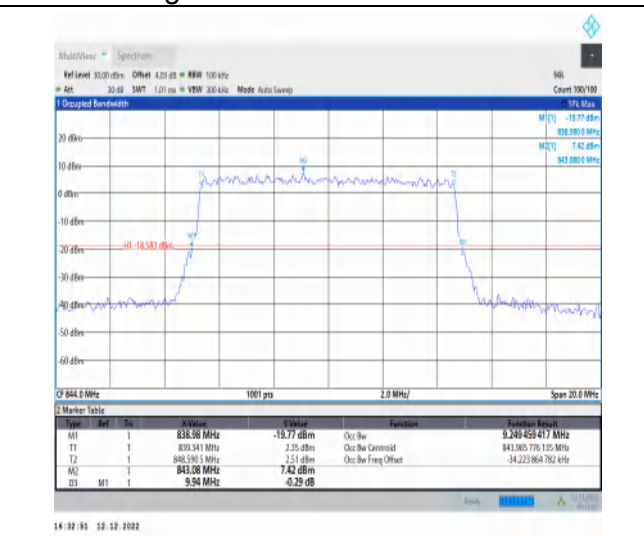


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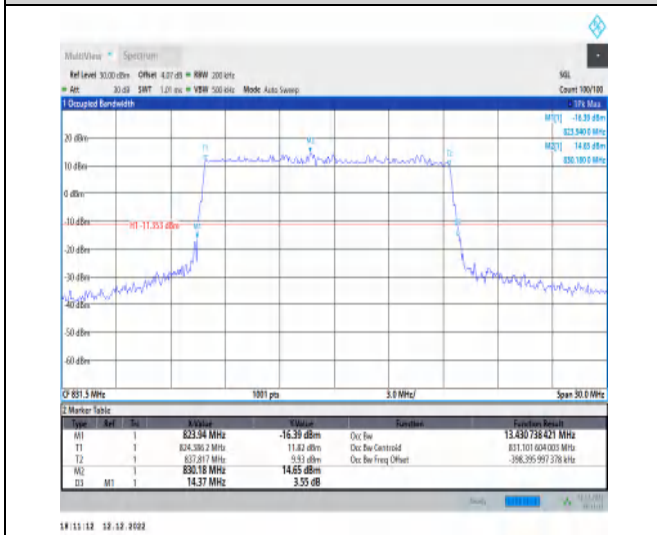
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1-N5-15-10-H-8-CP-64QAM-Outer\_Full-52@0-Ant1-9.262-10.040-≤10-PASS



1-N5-15-10-H-9-CP-256QAM-Outer\_Full-52@0-Ant1-9.249-9.940-≤10-PASS



1-N5-15-15-L-1-DFT-QPSK-Outer\_Full-75@0-Ant1-3.431-14.370-≤15-PASS

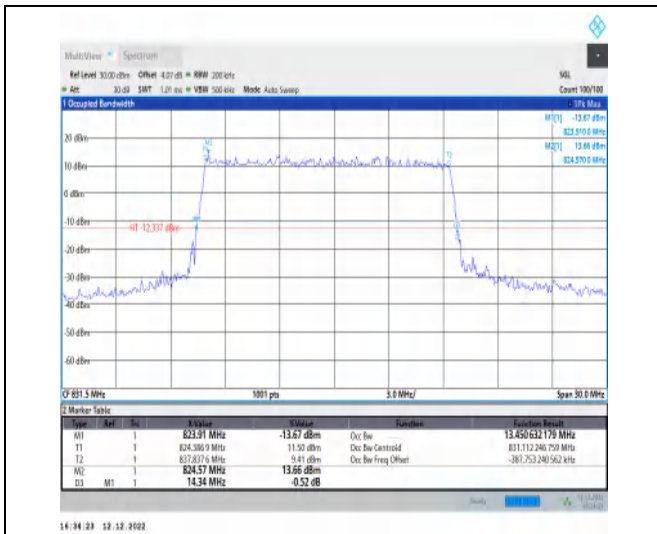


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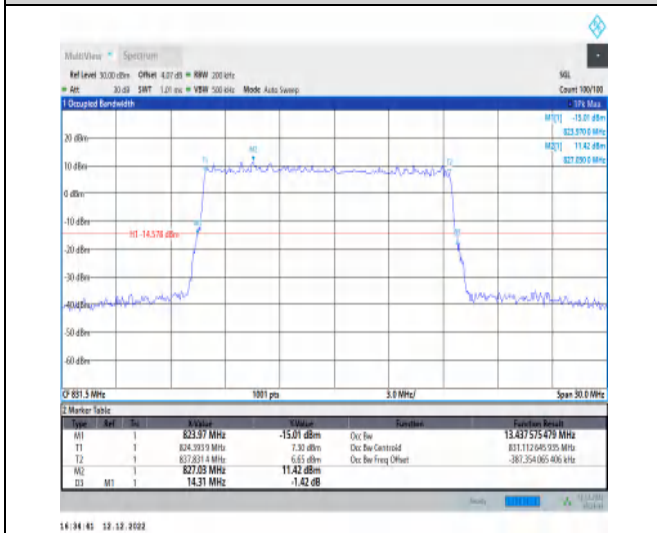
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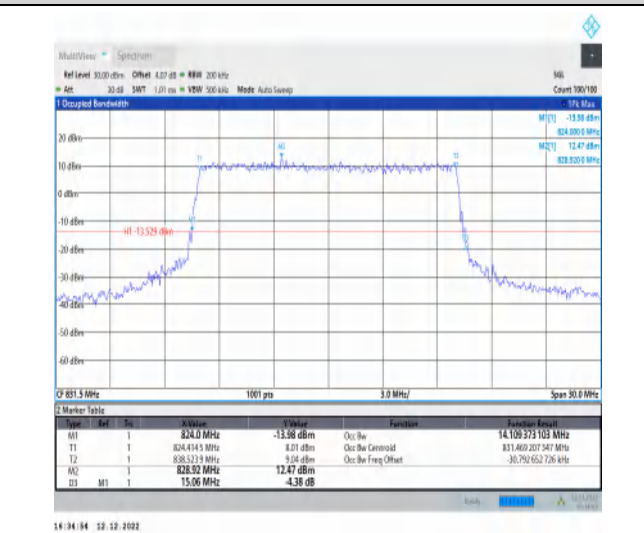
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 13.44-14.340≤15-PASS



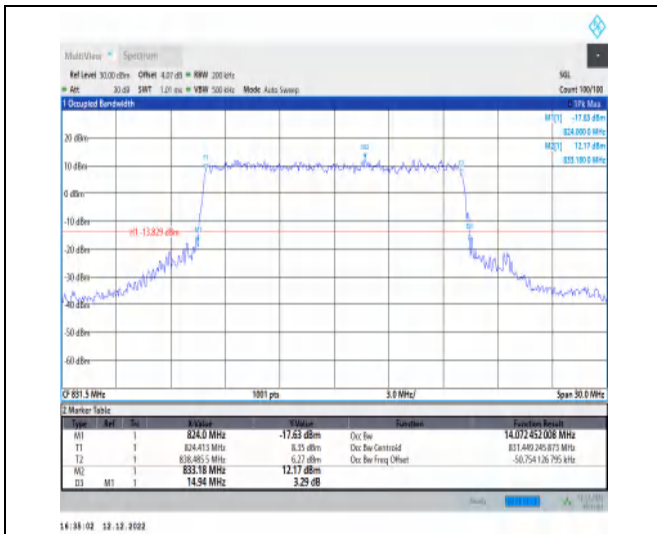
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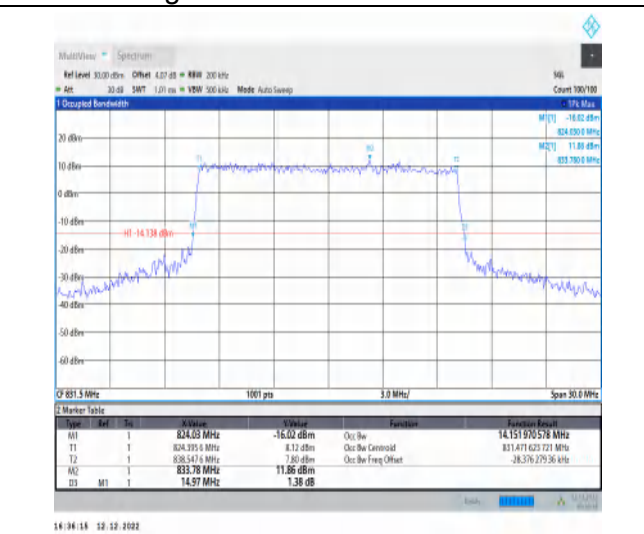
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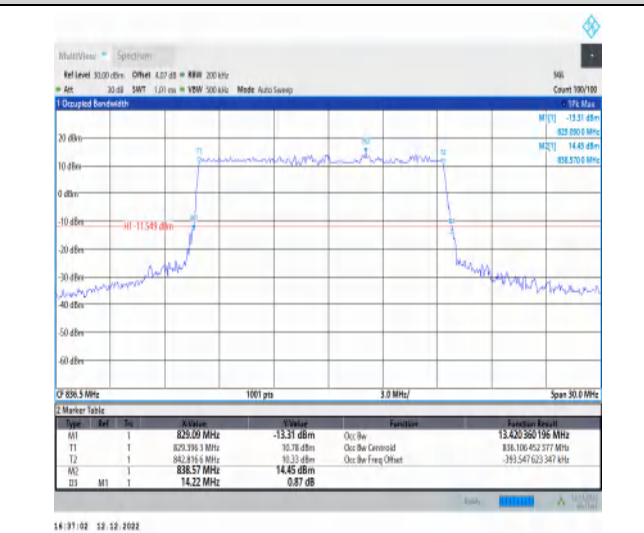
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1-N5-15-15-L-8-CP-64QAM-Outer\_Full-79@0-Ant1-14.152-14.970-≤15-PASS



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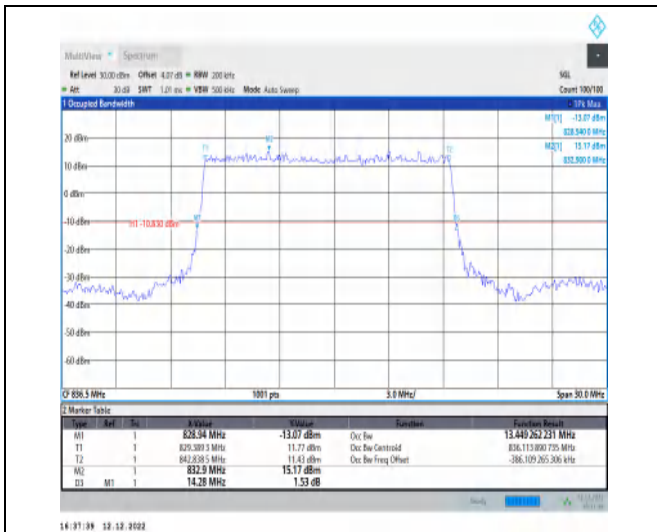
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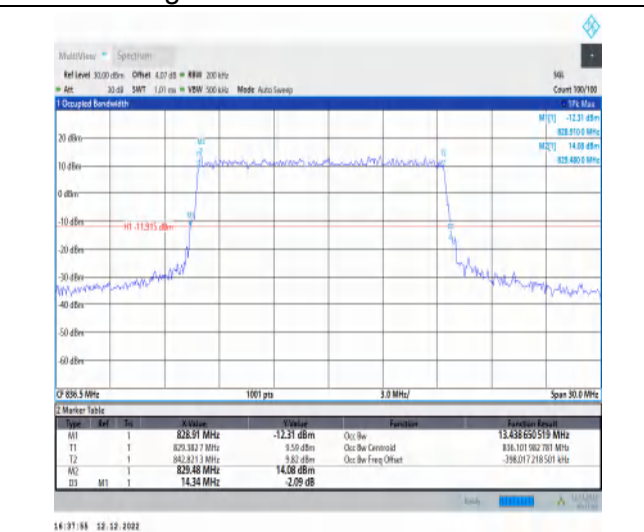
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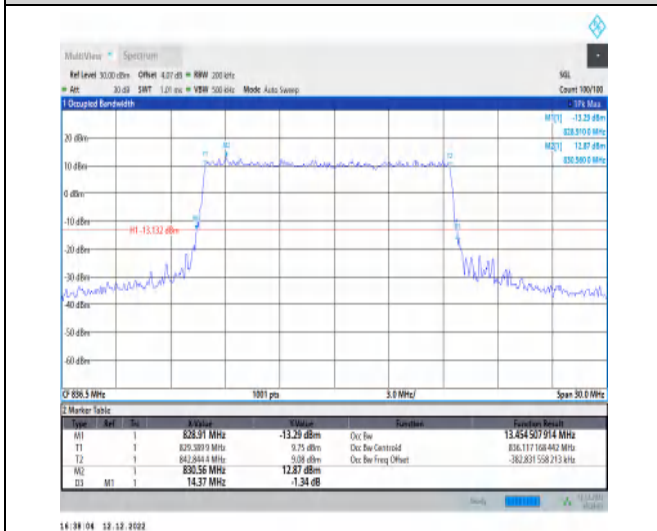




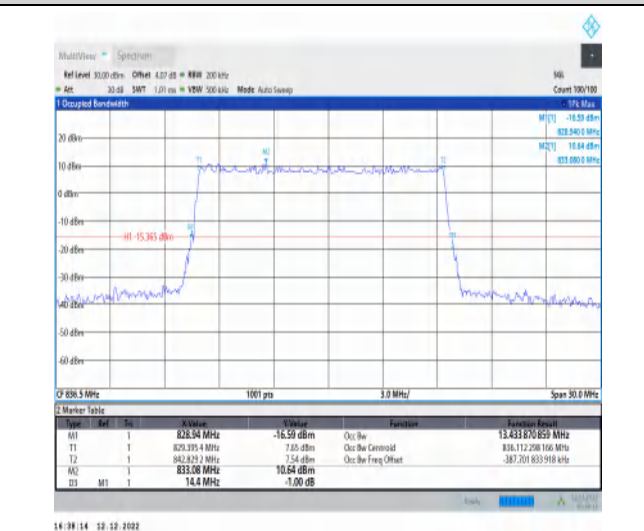
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1-N5-15-15-M-3-DFT-16QAM-Outer\_Full-75@0-Ant1  
 -13.439-14.340-≤15-PASS



1-N5-15-15-M-4-DFT-64QAM-Outer\_Full-75@0-Ant1  
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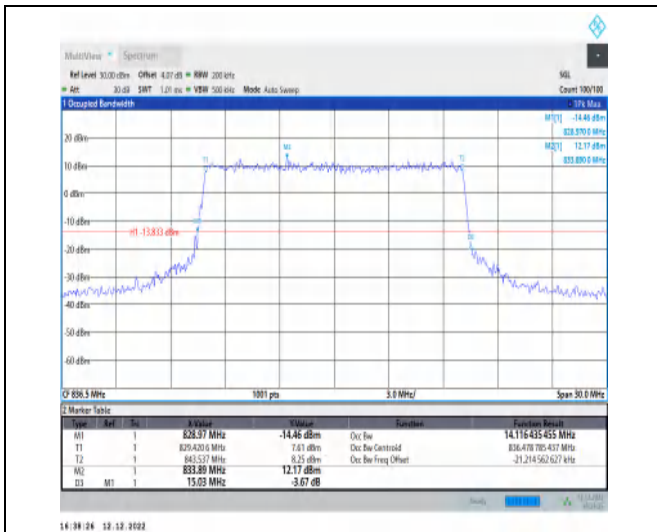


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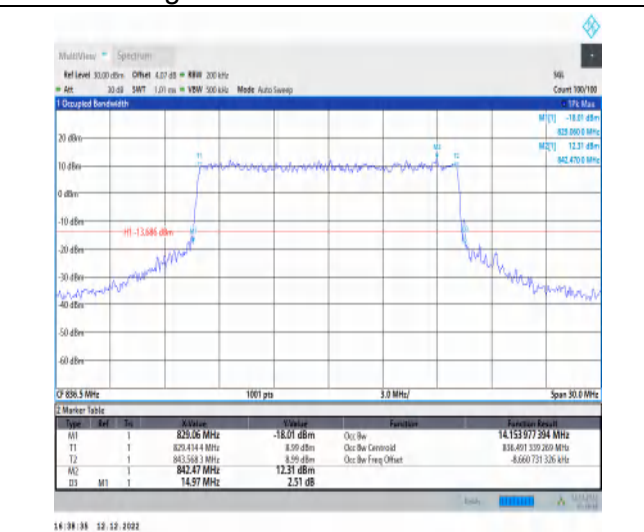


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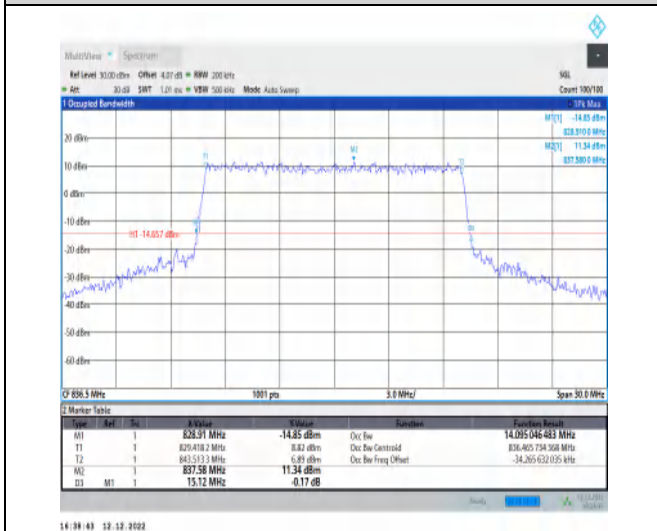
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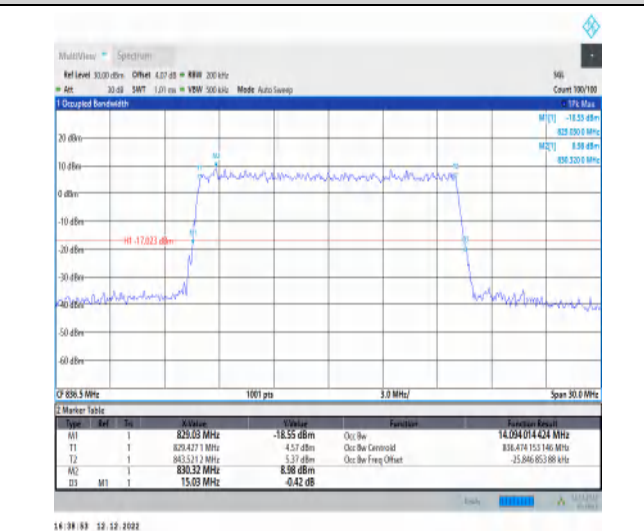
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 14.154-14.970-≤15-PASS

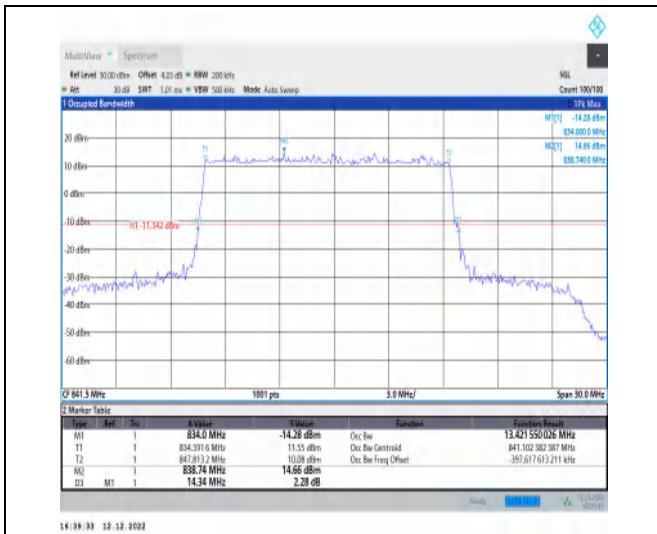


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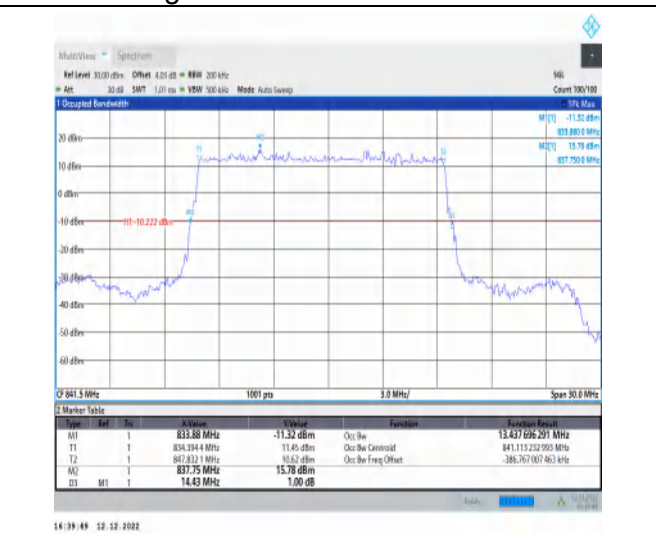


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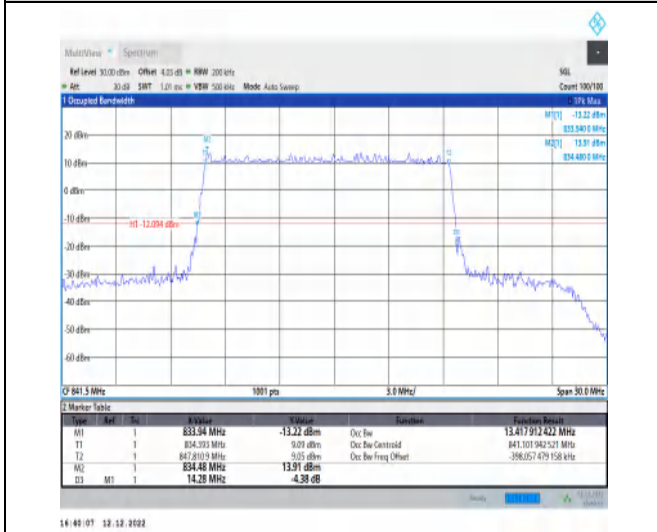




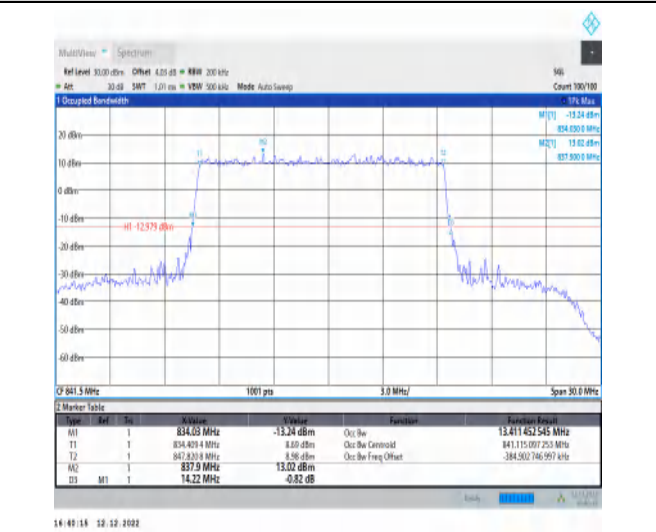
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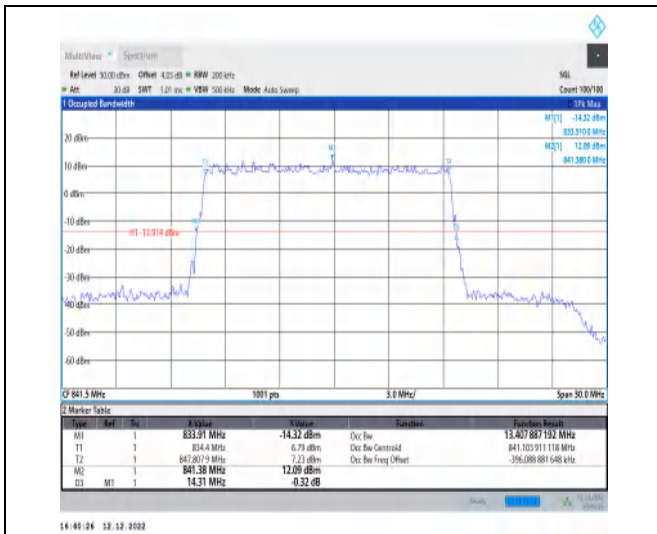
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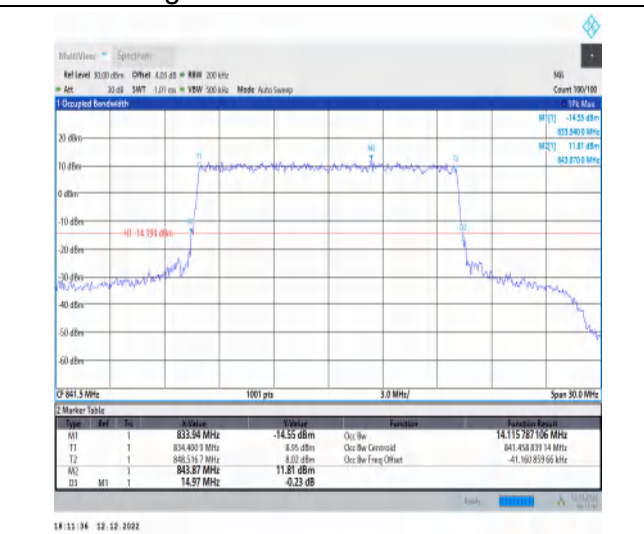
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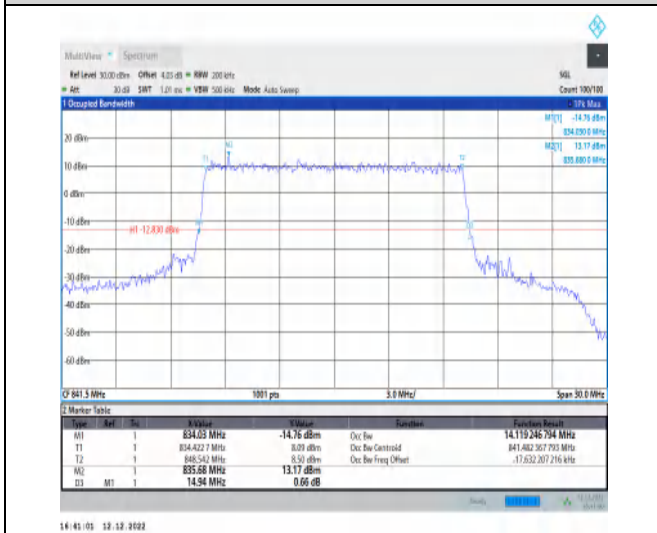




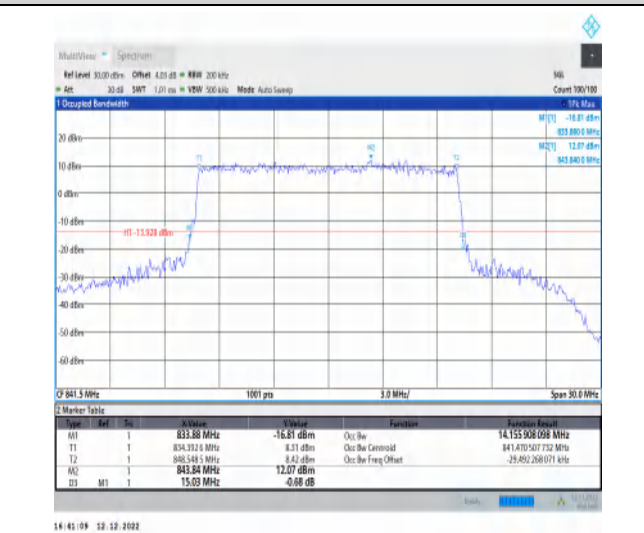
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1-N5-15-15-H-6-CP-QPSK-Outer\_Full-79@0-Ant1-1  
 4.116-14.970≤15-PASS



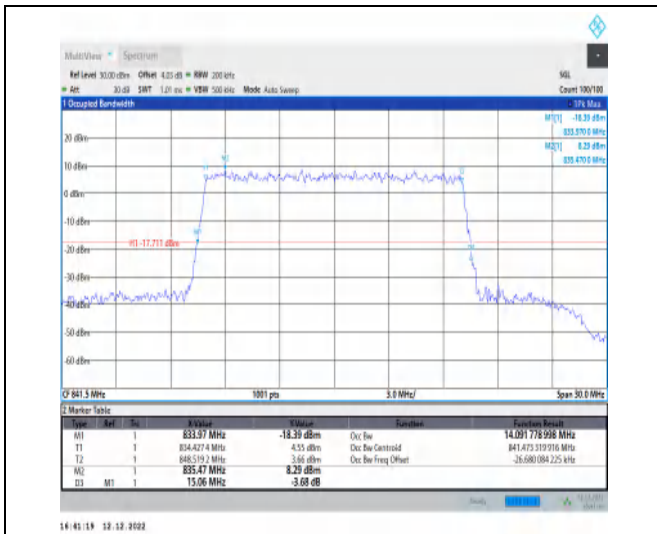
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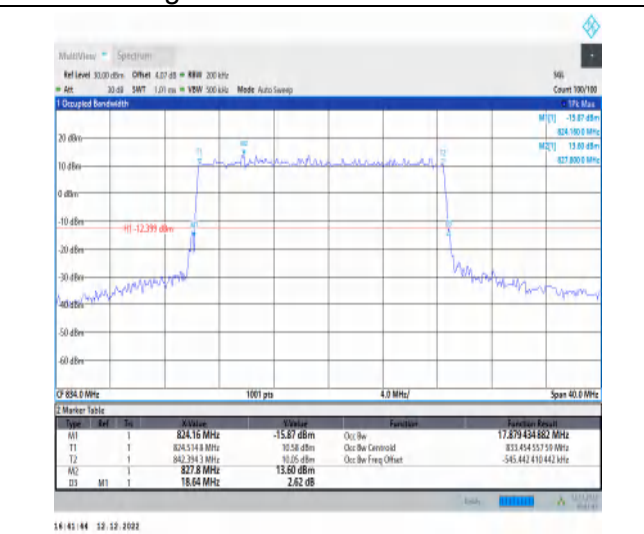
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 14.156-15.030≤15-PASS



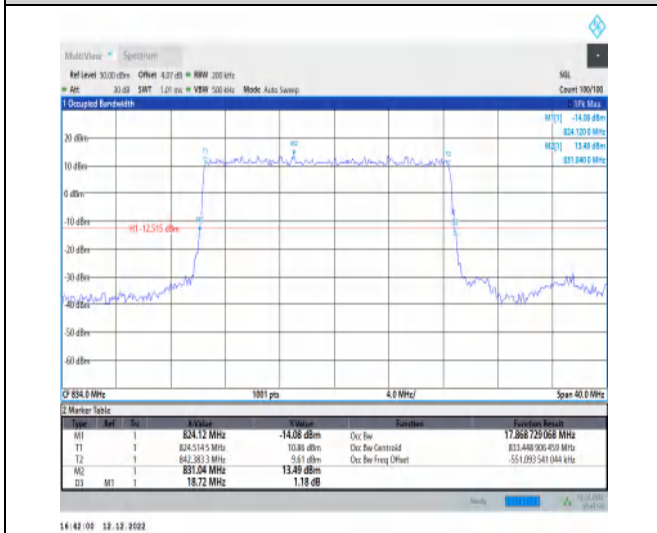




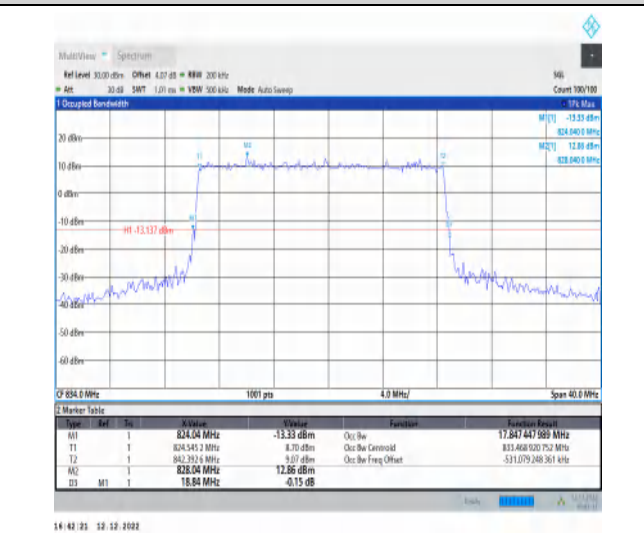
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 -14.092-15.060-≤15-PASS



1-N5-15-20-L-1-DFT-QPSK-Outer\_Full-100@0-Ant1-  
 17.879-18.640-≤20-PASS

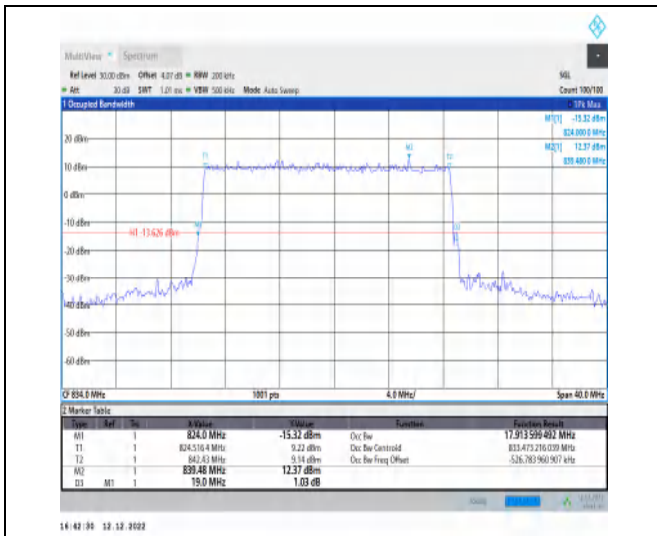


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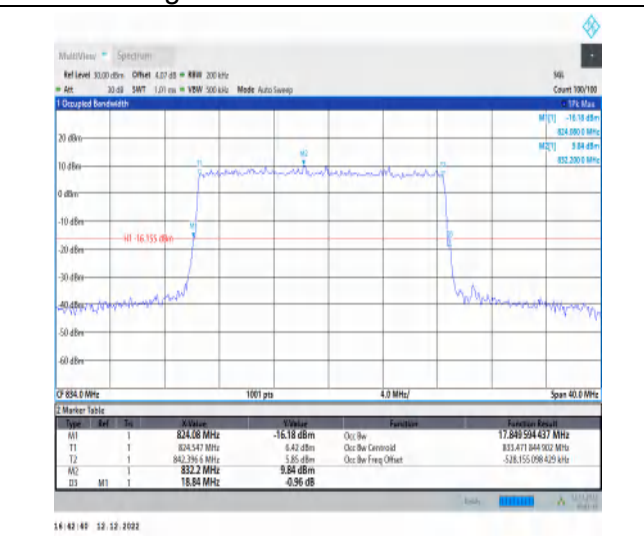


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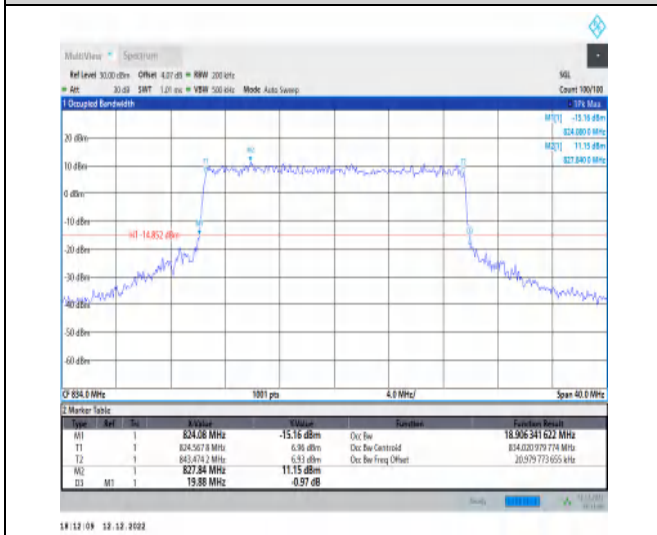




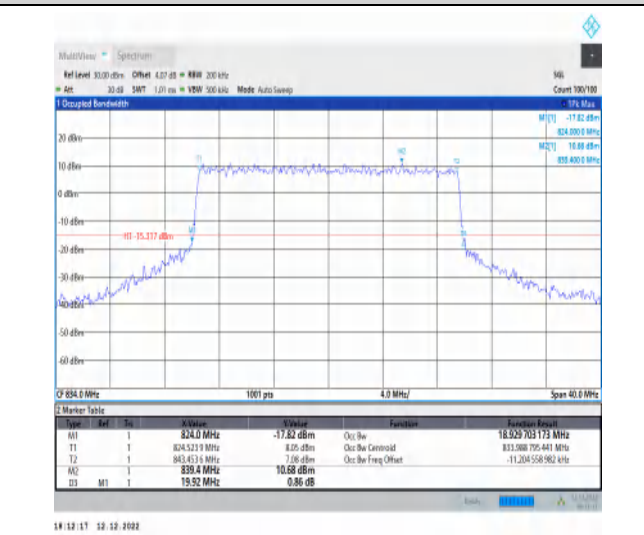
1-N5-15-20-L-4-DFT-64QAM-Outer\_Full-100@0-Ant  
 1-17.914-19.000-≤20-PASS



1-N5-15-20-L-5-DFT-256QAM-Outer\_Full-100@0-An  
 t1-17.85-18.840-≤20-PASS

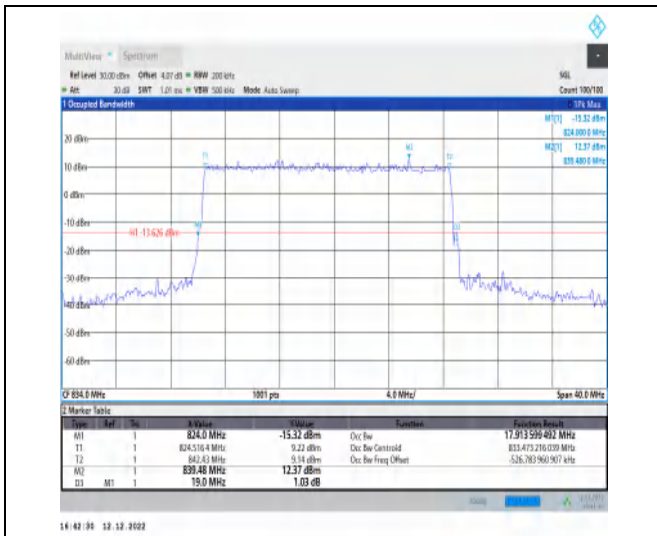


1-N5-15-20-L-6-CP-QPSK-Outer\_Full-106@0-Ant1-  
 18.906-19.880-≤20-PASS



1-N5-15-20-L-7-CP-16QAM-Outer\_Full-106@0-Ant1-  
 18.93-19.920-≤20-PASS

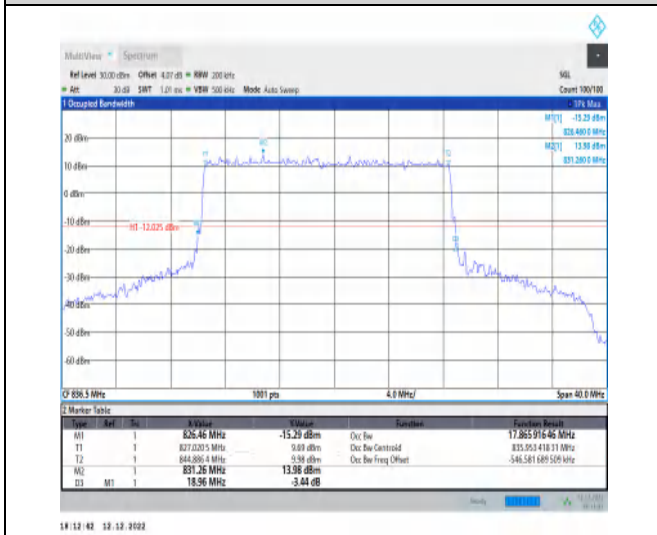




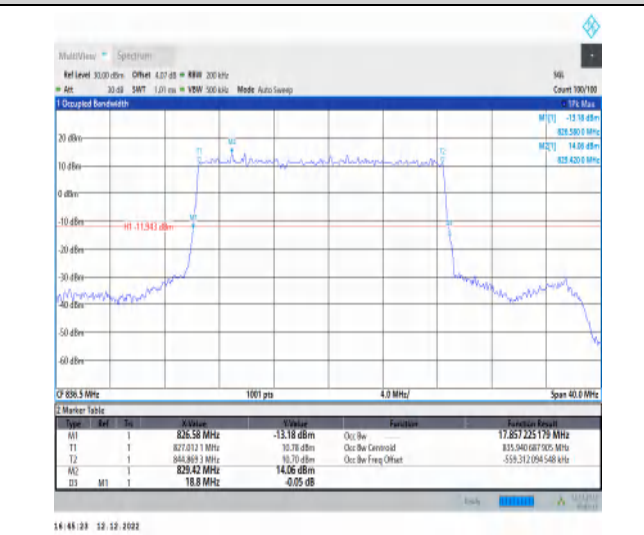
1-N5-15-20-L-8-CP-64QAM-Outer\_Full-106@0-Ant1  
 -1.936-2.440-≤20-PASS



1-N5-15-20-L-9-CP-256QAM-Outer\_Full-106@0-Ant  
 1-18.984-19.920-≤20-PASS



1-N5-15-20-M-1-DFT-QPSK-Outer\_Full-100@0-Ant1  
 -17.866-18.960-≤20-PASS



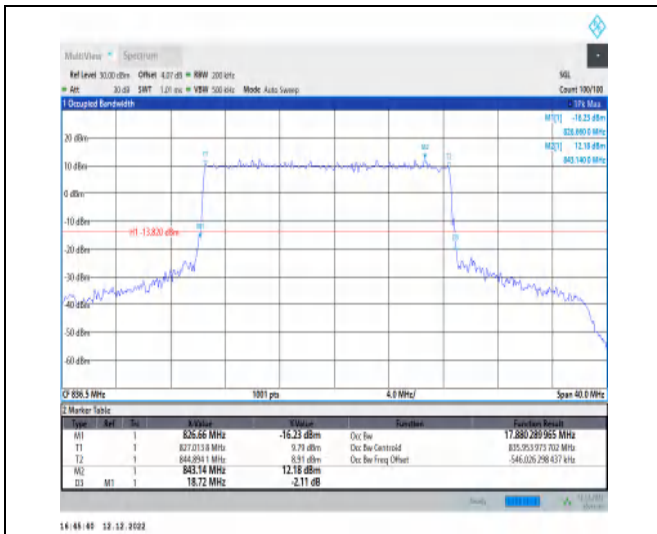
1-N5-15-20-M-2-DFT-PI2BPSK-Outer\_Full-100@0-Ant1  
 1-17.857-18.800-≤20-PASS



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 t (86-512) 62992980 www.sgs.com.cn  
 t (86-512) 62992980 sgs.china@sgs.com

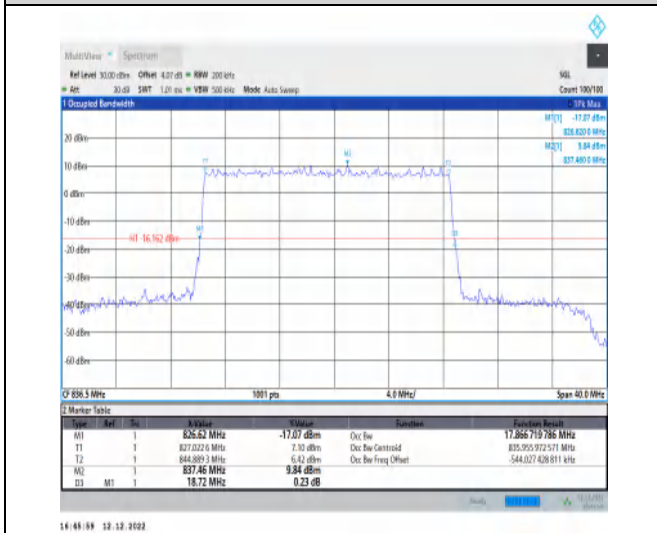




1-N5-15-20-M-3-DFT-16QAM-Outer\_Full-100@0-Ant  
 1-17.88-18.720-≤20-PASS



1-N5-15-20-M-4-DFT-64QAM-Outer\_Full-100@0-Ant  
 1-17.889-18.840-≤20-PASS

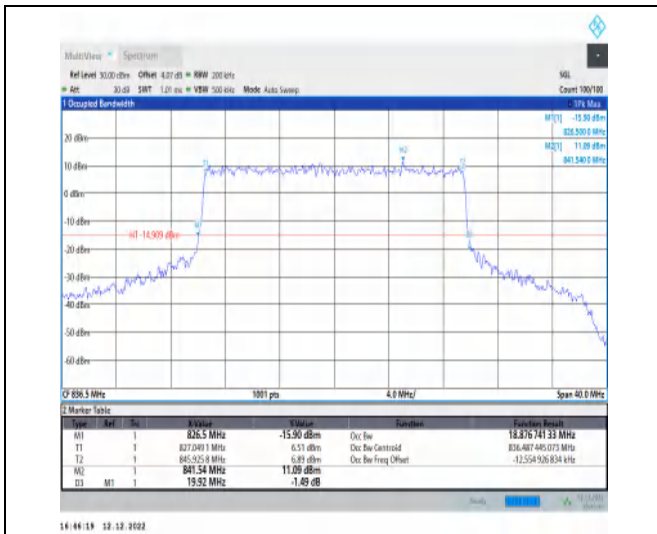


1-N5-15-20-M-5-DFT-256QAM-Outer\_Full-100@0-A  
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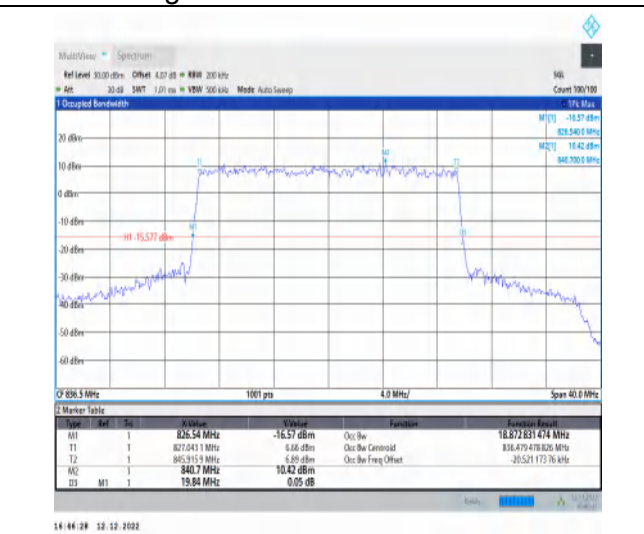


1-N5-15-20-M-6-CP-QPSK-Outer\_Full-106@0-Ant1  
 18.903-19.760-≤20-PASS

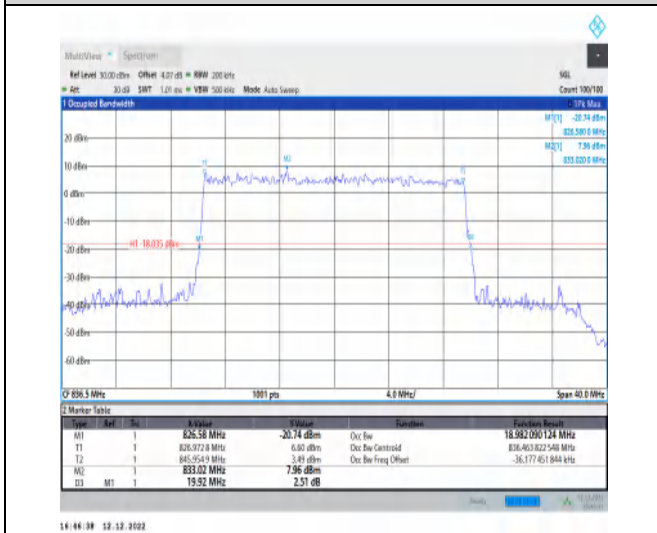




1-N5-15-20-M-7-CP-16QAM-Outer\_Full-106@0-Ant  
 1-18.877-19.920-≤20-PASS



1-N5-15-20-M-8-CP-64QAM-Outer\_Full-106@0-Ant1  
 -18.873-19.840-≤20-PASS



1-N5-15-20-M-9-CP-256QAM-Outer\_Full-106@0-An  
 t1-18.982-19.920-≤20-PASS

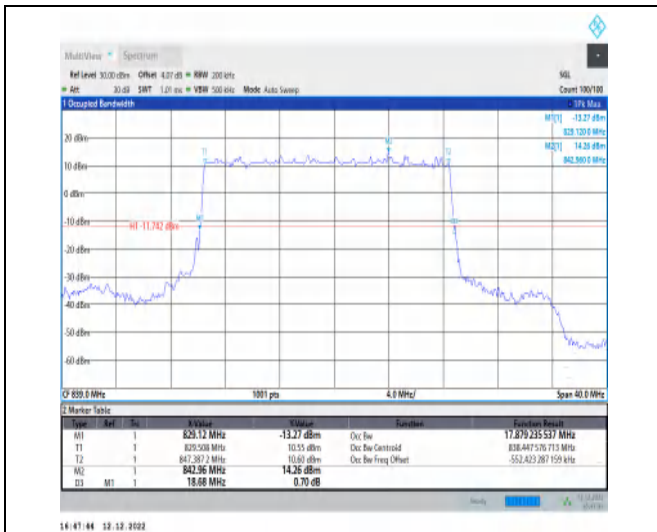


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 -17.874-18.800-≤20-PASS

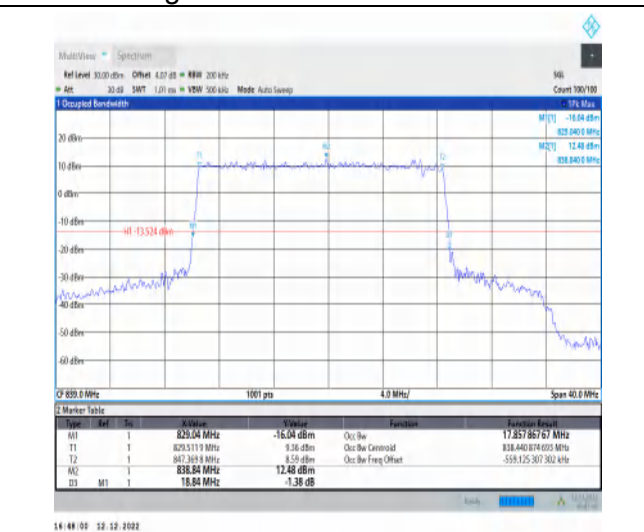


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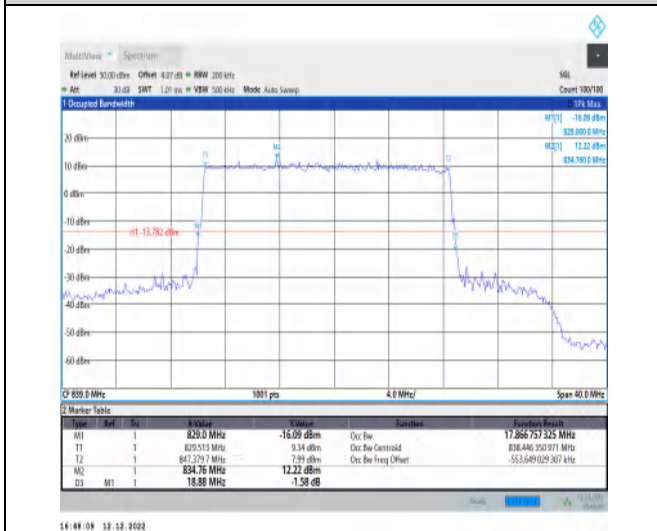
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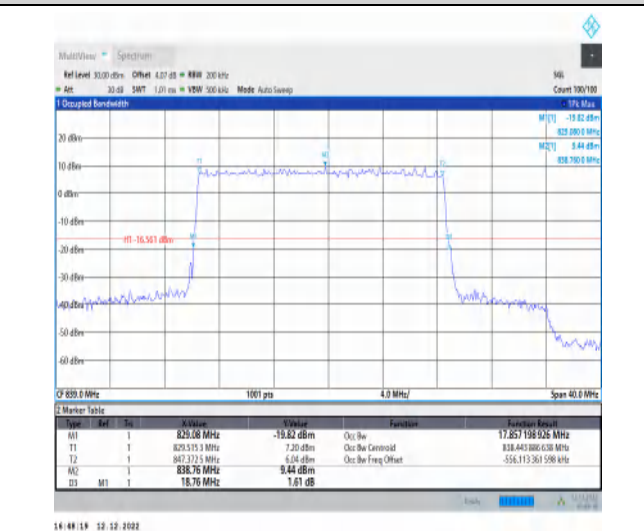
1-N5-15-20-H-2-DFT-PI2BPSK-Outer\_Full-100@0-A  
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1-N5-15-20-H-3-DFT-16QAM-Outer\_Full-100@0-Ant  
 1-17.858-18.840-≤20-PASS



1-N5-15-20-H-4-DFT-64QAM-Outer\_Full-100@0-Ant  
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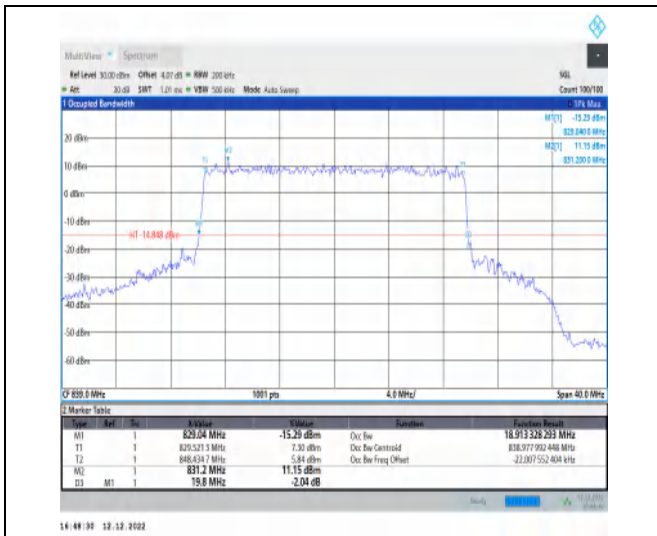
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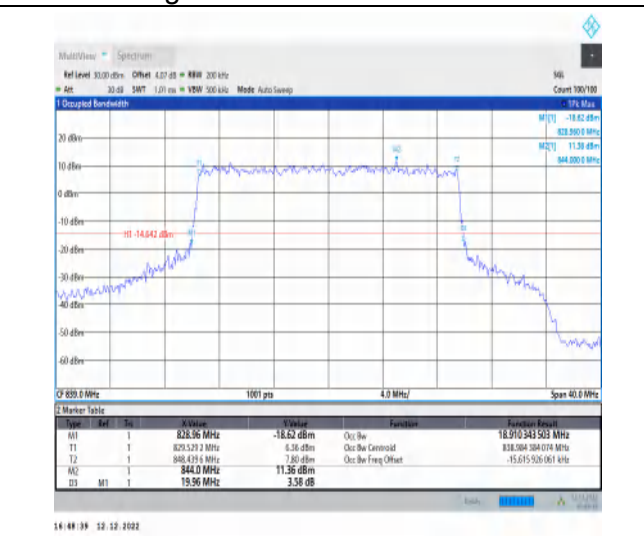
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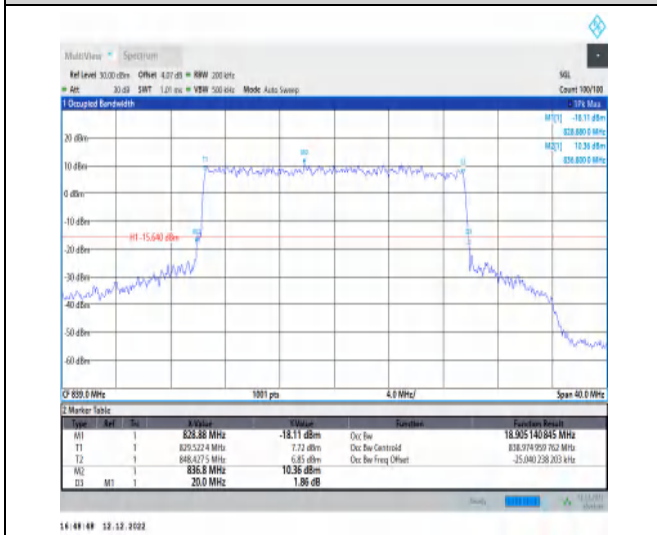




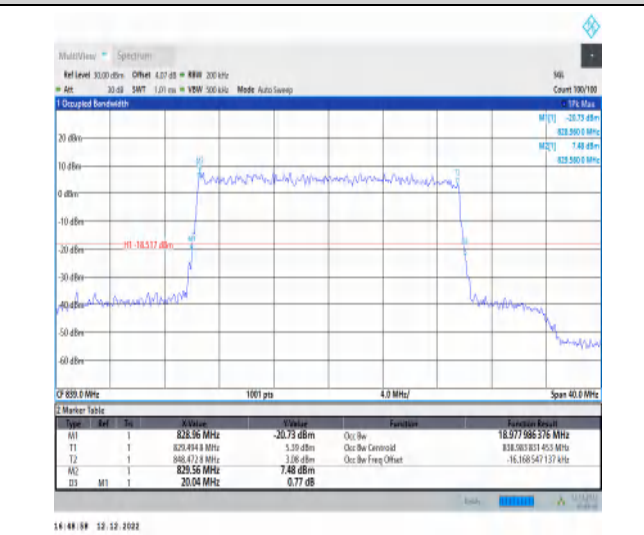
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1-N5-15-20-H-7-CP-16QAM-Outer\_Full-106@0-Ant1-18.91-19.960-<=20-PASS



1-N5-15-20-H-8-CP-64QAM-Outer\_Full-106@0-Ant1-18.905-20.000-<=20-PASS

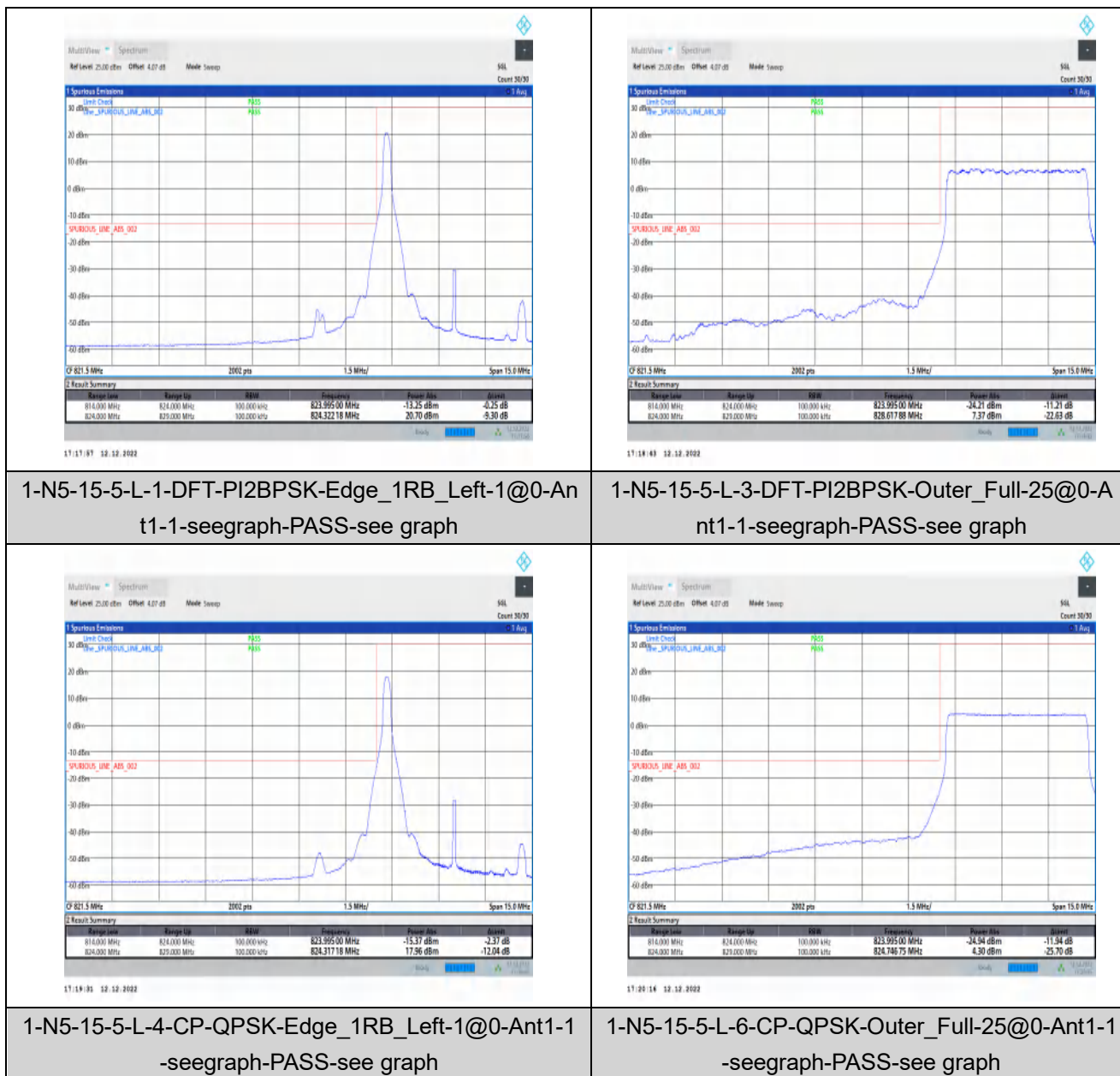


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## Band Edge for SA

### Test Graphs



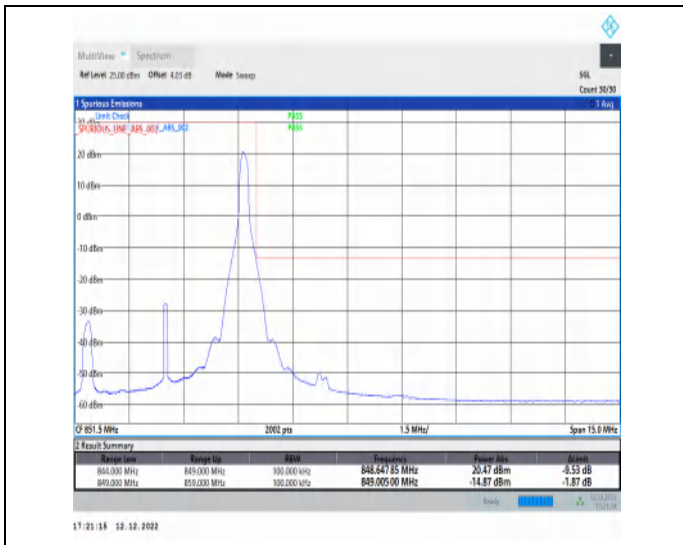
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1-N5-15-5-L-3-DFT-PI2BPSK-Outer\_Full-25@0-Ant1-1-seegraph-PASS-see graph

1-N5-15-5-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1-seegraph-PASS-see graph

1-N5-15-5-L-6-CP-QPSK-Outer\_Full-25@0-Ant1-1-seegraph-PASS-see graph

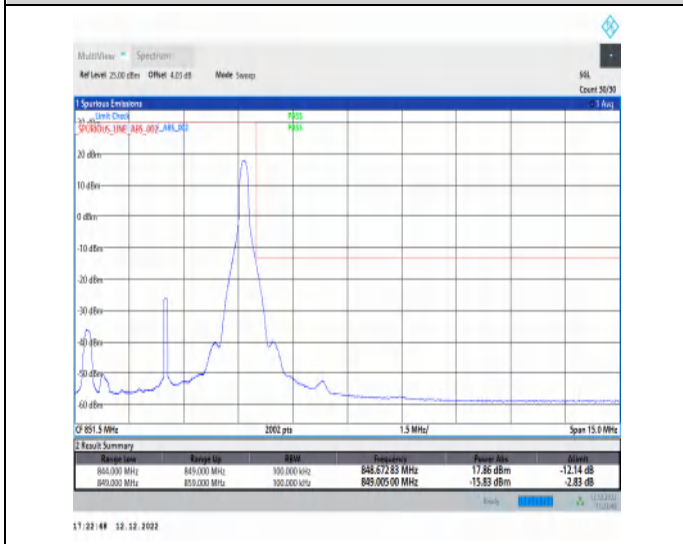




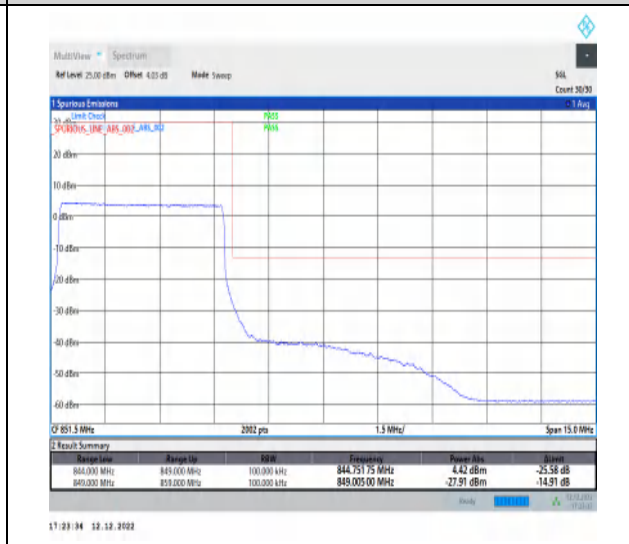
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1-N5-15-5-H-3-DFT-PI2BPSK-Outer\_Full-25@0-Ant1-1-see graph-PASS-see graph



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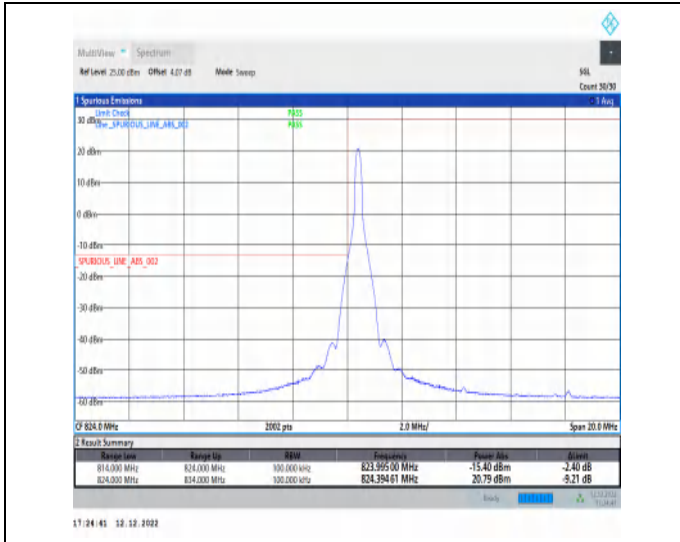


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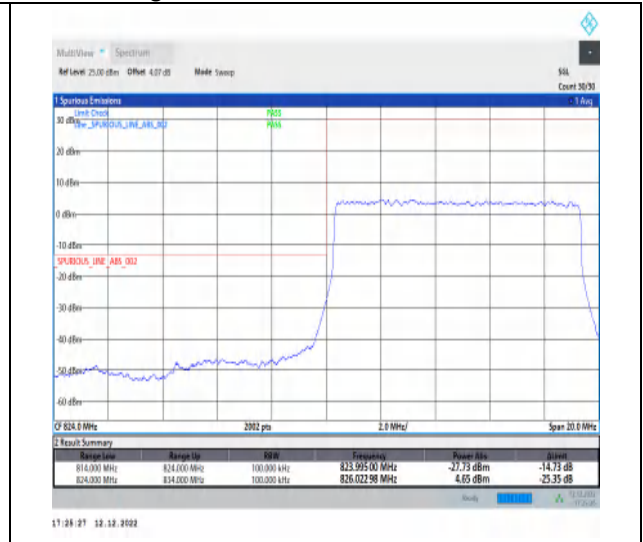


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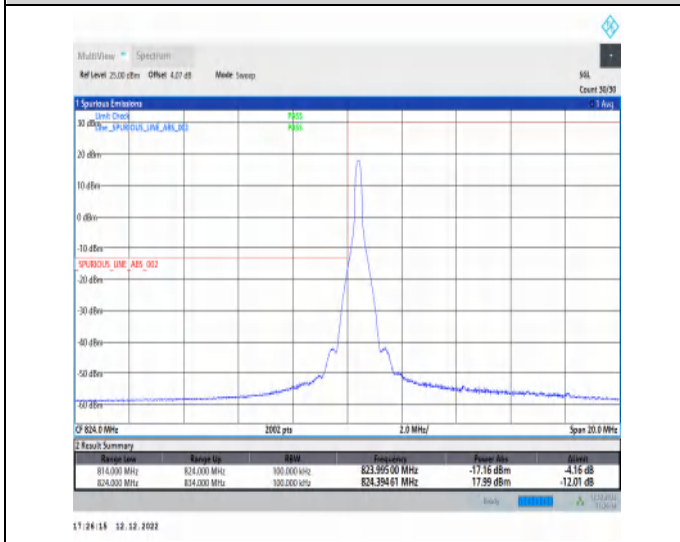




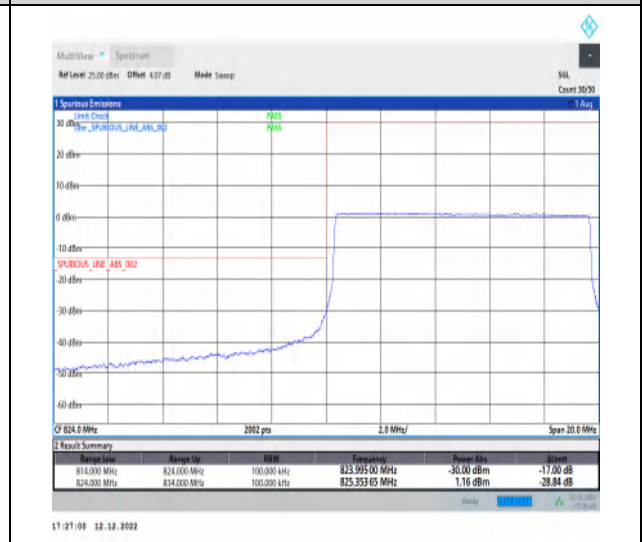
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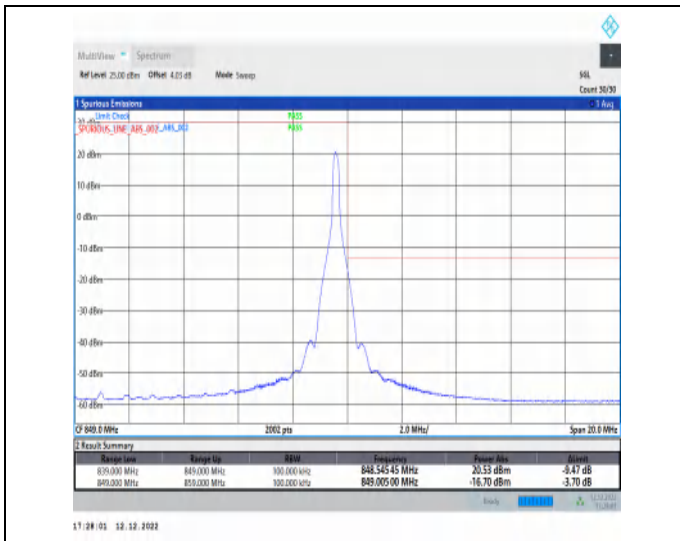


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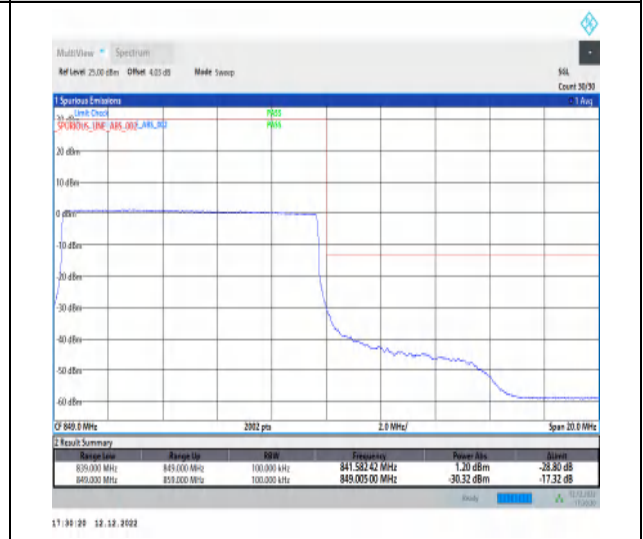
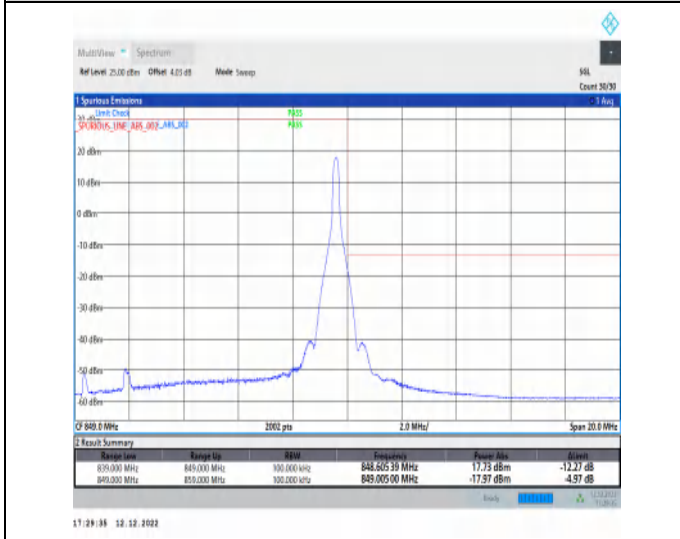
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1-N5-15-10-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@5  
1-Ant1-1-seegraph-PASS-see graph

1-N5-15-10-H-3-DFT-PI2BPSK-Outer\_Full-50@0-  
Ant1-1-seegraph-PASS-see graph



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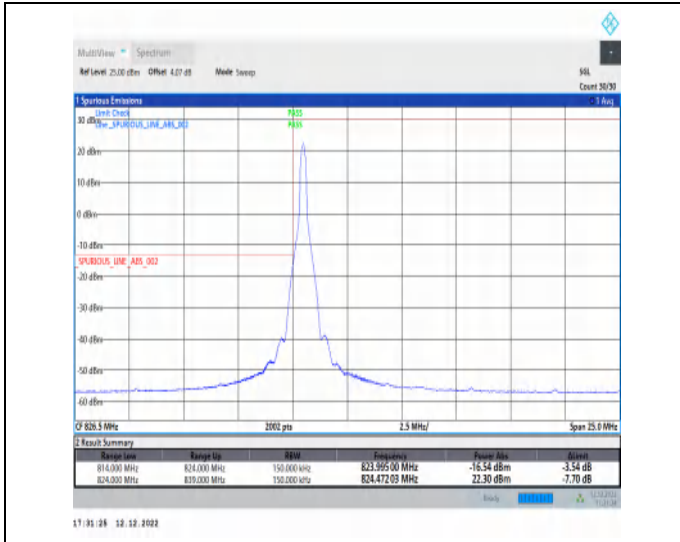
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-1-seegraph-PASS-see graph



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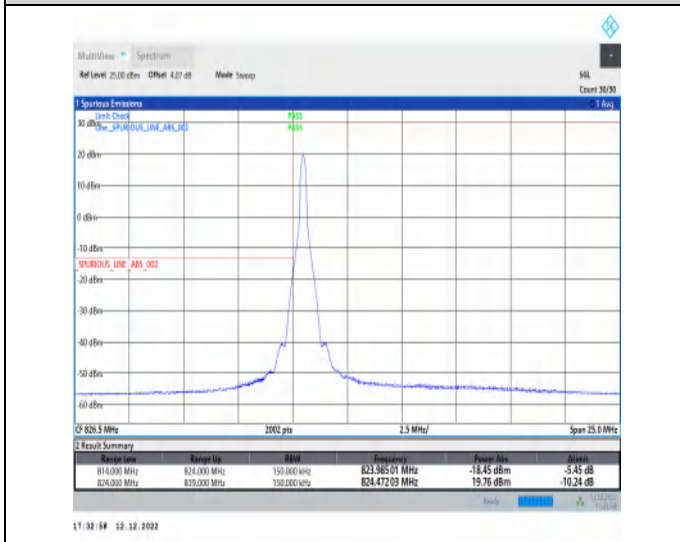
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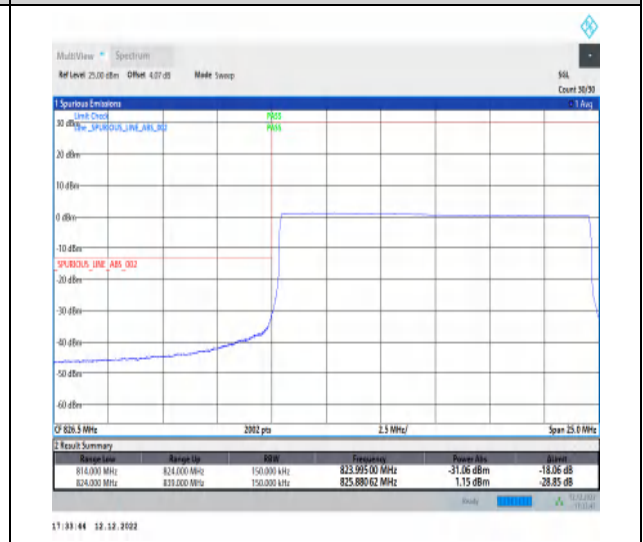
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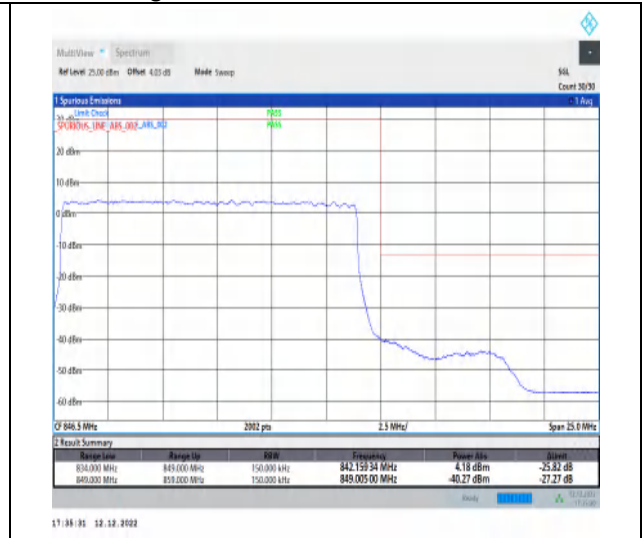
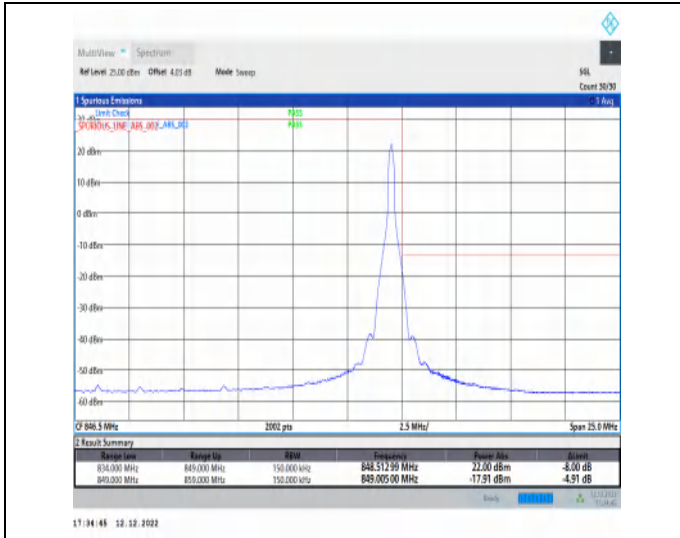
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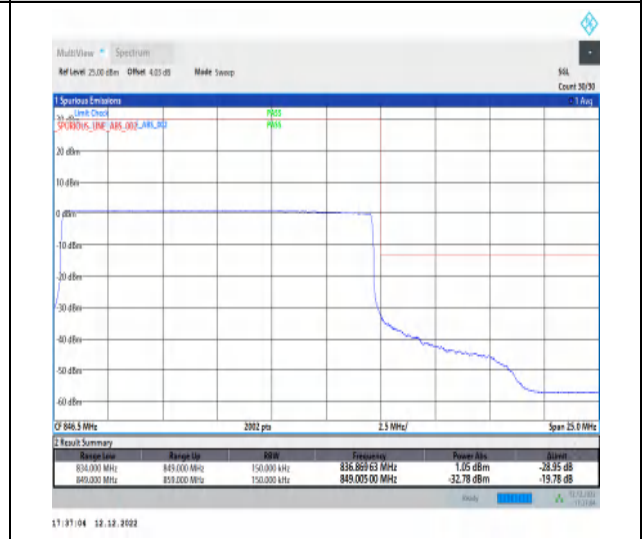
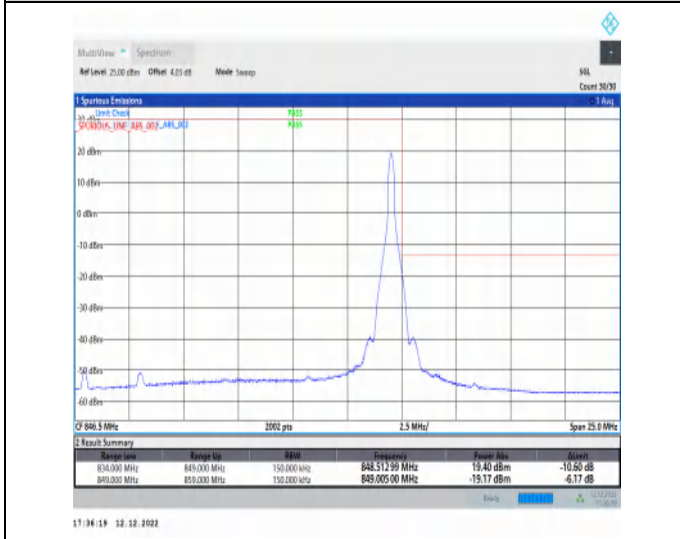






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1-N5-15-15-H-5-CP-QPSK-Edge\_1RB\_Right-1@78-Ant1-1-seegraph-PASS-see graph

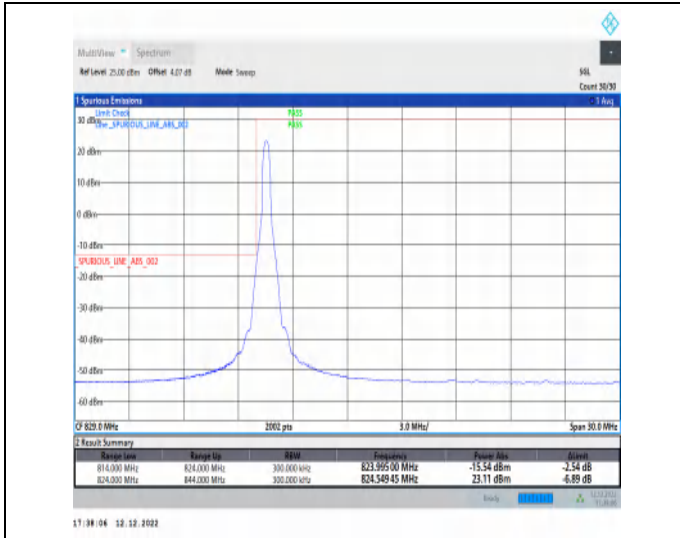
1-N5-15-15-H-6-CP-QPSK-Outer\_Full-79@0-Ant1-1-seegraph-PASS-see graph



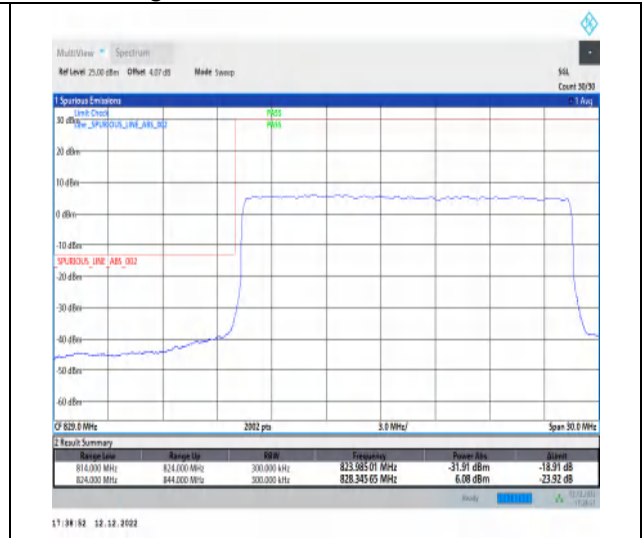
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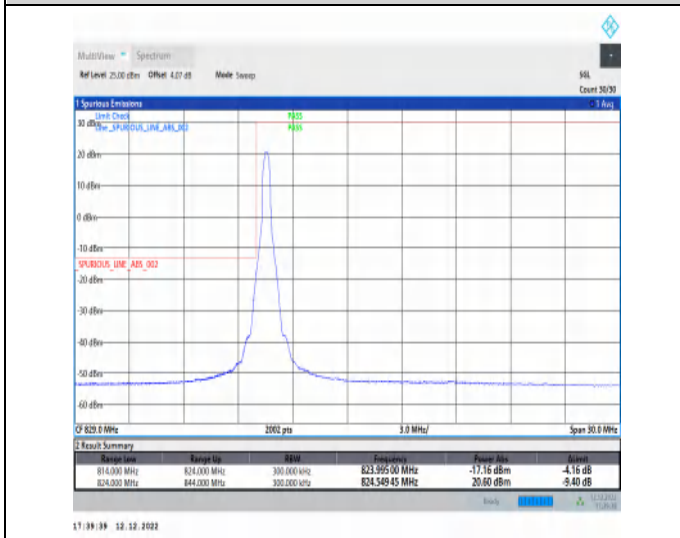
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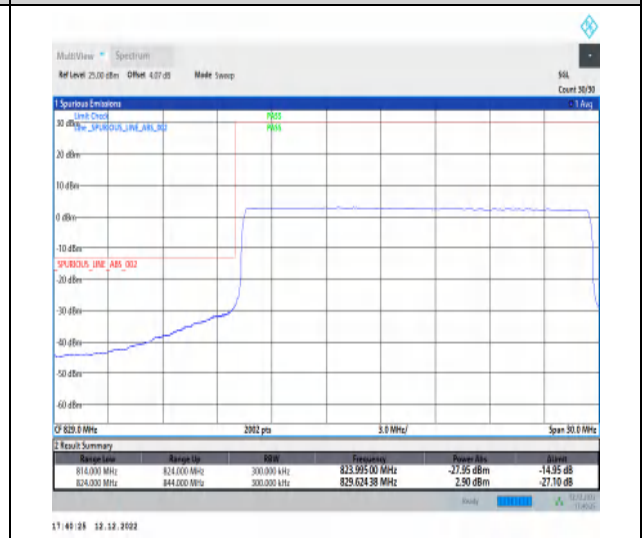
1-N5-15-20-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1-seegraph-PASS-see graph



1-N5-15-20-L-3-DFT-PI2BPSK-Outer\_Full-100@0-Ant1-1-seegraph-PASS-see graph

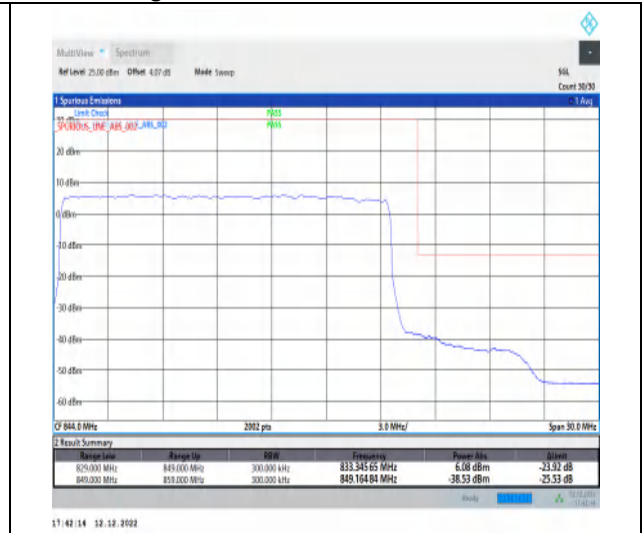
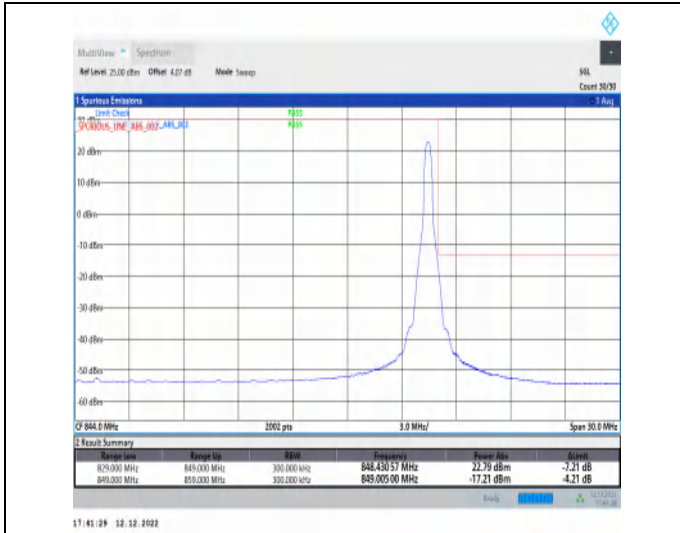


1-N5-15-20-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1-seegraph-PASS-see graph



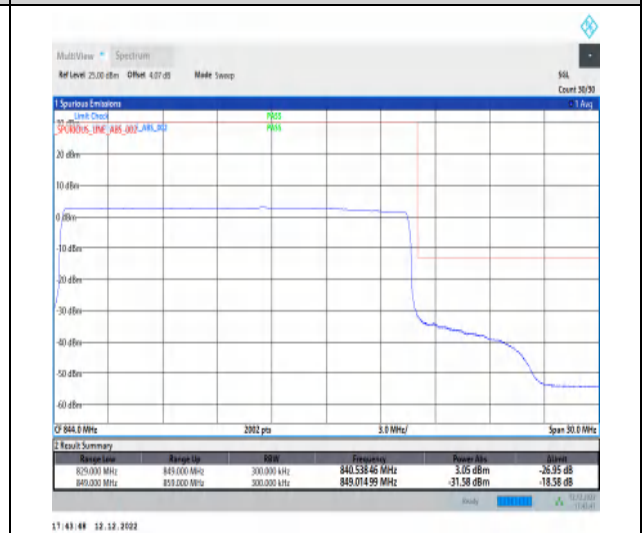
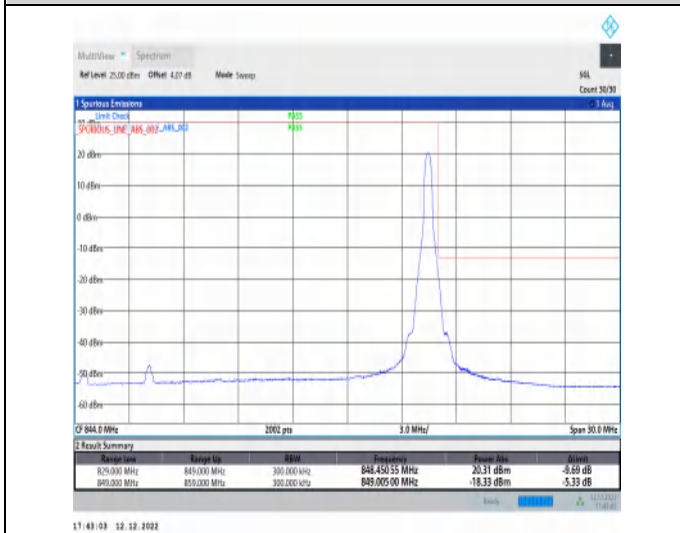
1-N5-15-20-L-6-CP-QPSK-Outer\_Full-106@0-Ant1-1-seegraph-PASS-see graph





1-N5-15-20-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@105-Ant1-1-seegraph-PASS-see graph

1-N5-15-20-H-3-DFT-PI2BPSK-Outer\_Full-100@0-Ant1-1-seegraph-PASS-see graph



1-N5-15-20-H-5-CP-QPSK-Edge\_1RB\_Right-1@105-Ant1-1-seegraph-PASS-see graph

1-N5-15-20-H-6-CP-QPSK-Outer\_Full-106@0-Ant1-1-seegraph-PASS-see graph



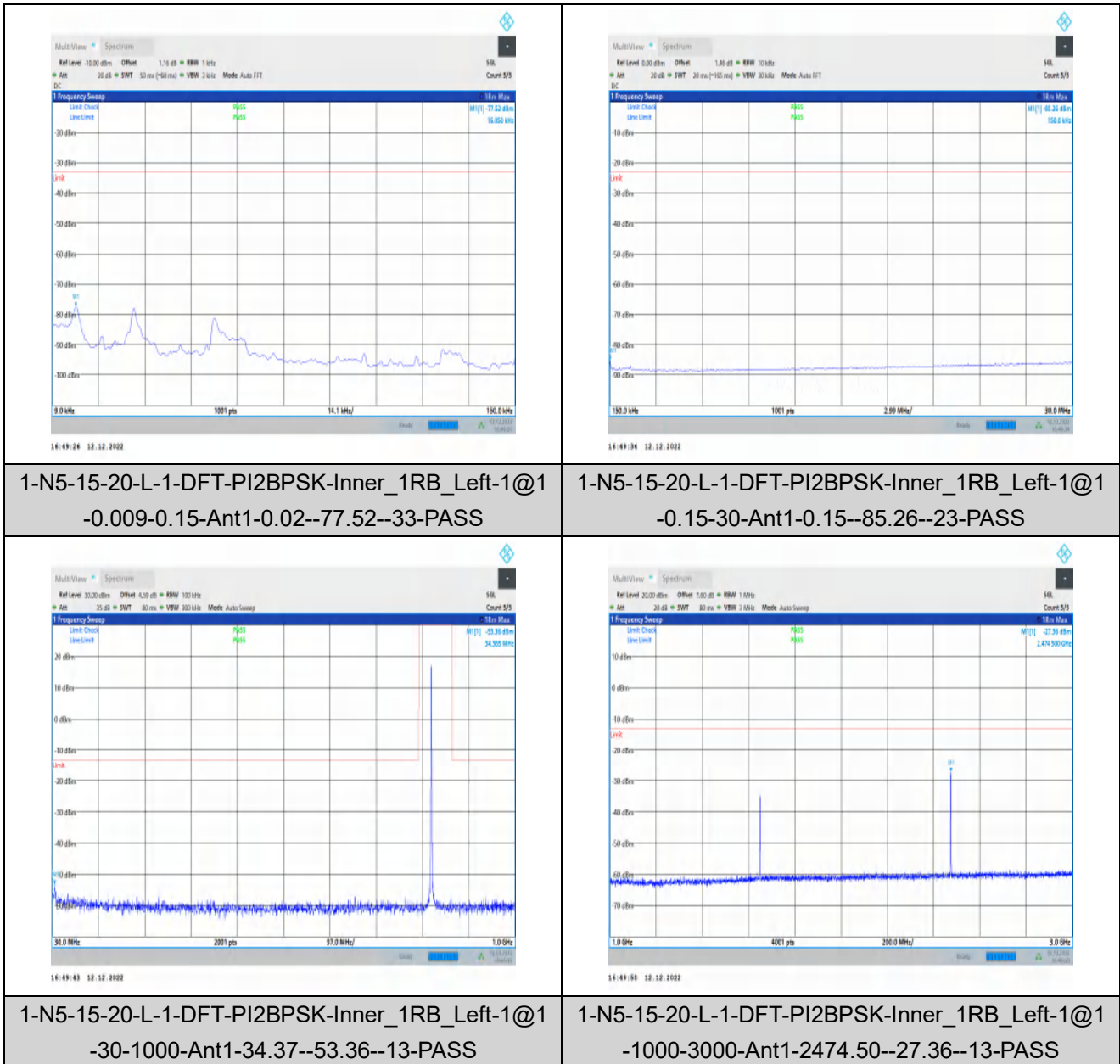
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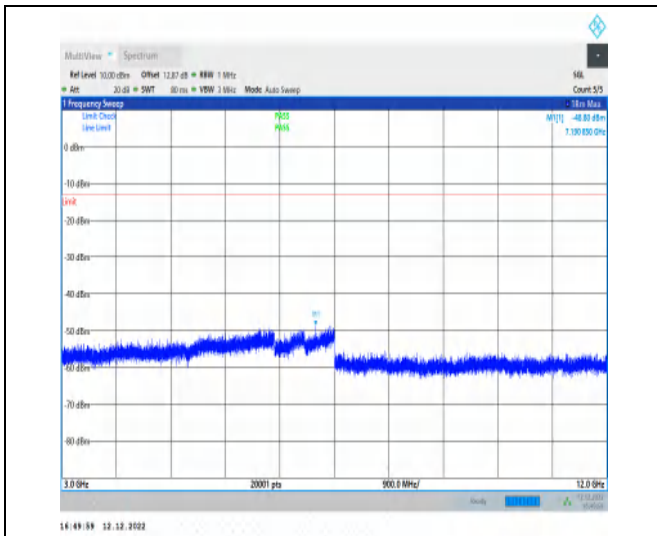
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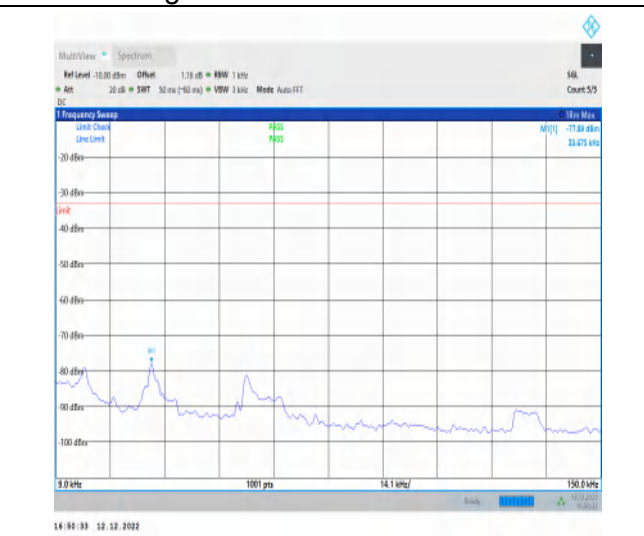
## Conducted Spurious Emission for SA

### Test Graphs

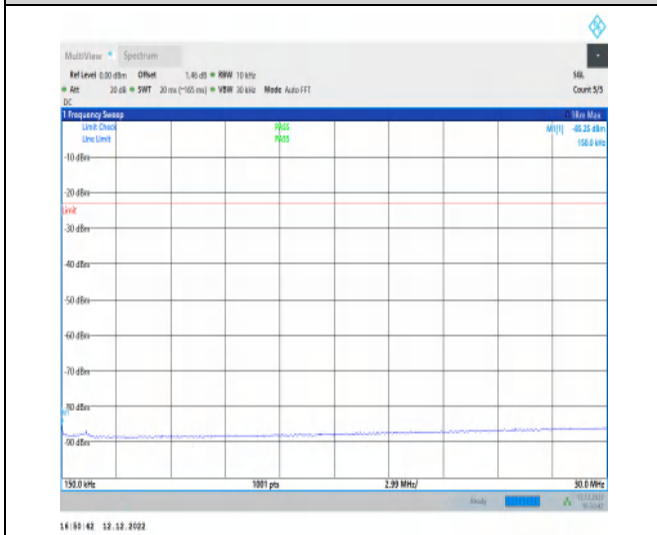




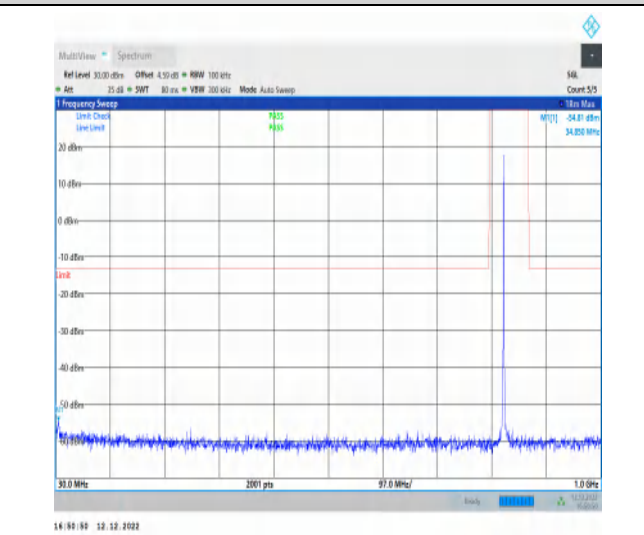
1-N5-15-20-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-3000-12000-Ant1-7190.85--48.80--13-PASS



1-N5-15-20-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-Ant1-0.03--77.89--33-PASS

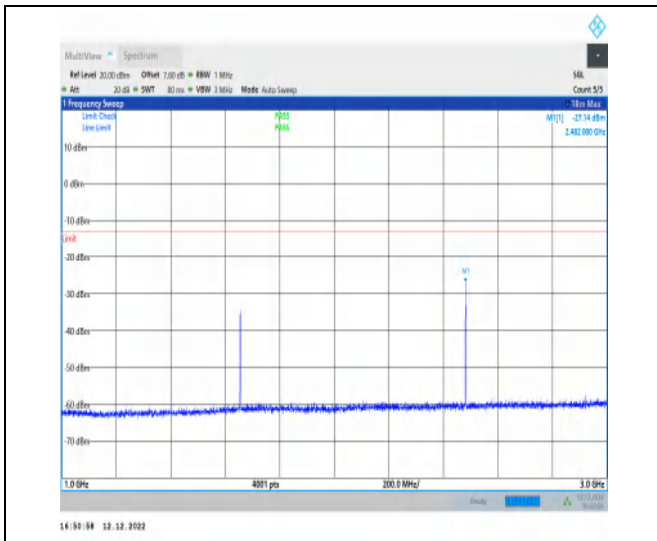


1-N5-15-20-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant1-0.15--85.25--23-PASS

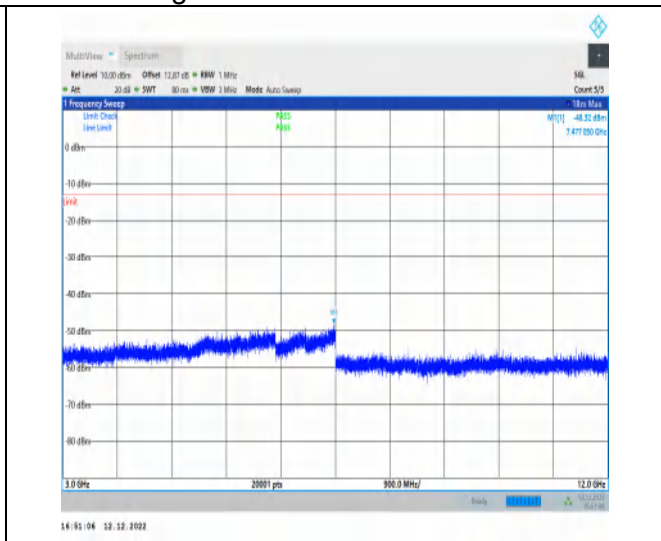


1-N5-15-20-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-30-1000-Ant1-34.85--54.81--13-PASS

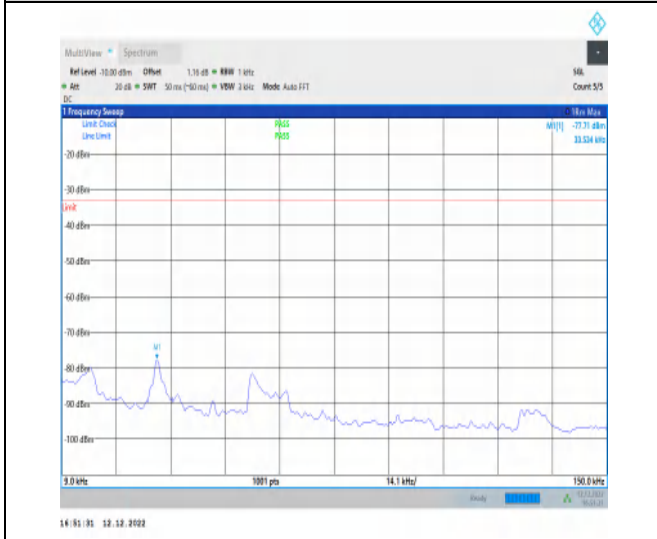




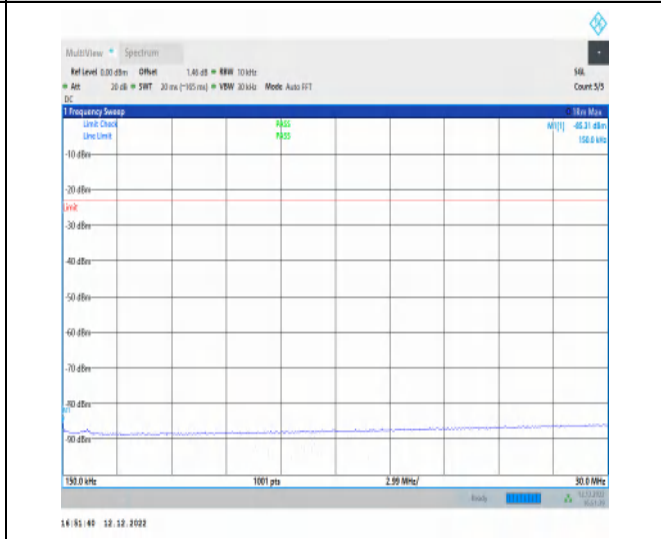
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 1-1000-3000-Ant1-2482.00--27.14--13-PASS



1-N5-15-20-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
 1-3000-12000-Ant1-7477.05--48.32--13-PASS



1-N5-15-20-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1  
 -0.009-0.15-Ant1-0.03--77.71--33-PASS

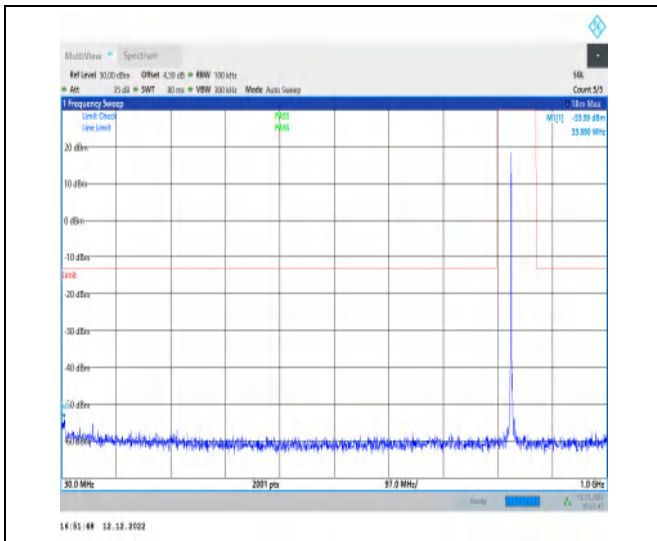


1-N5-15-20-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1  
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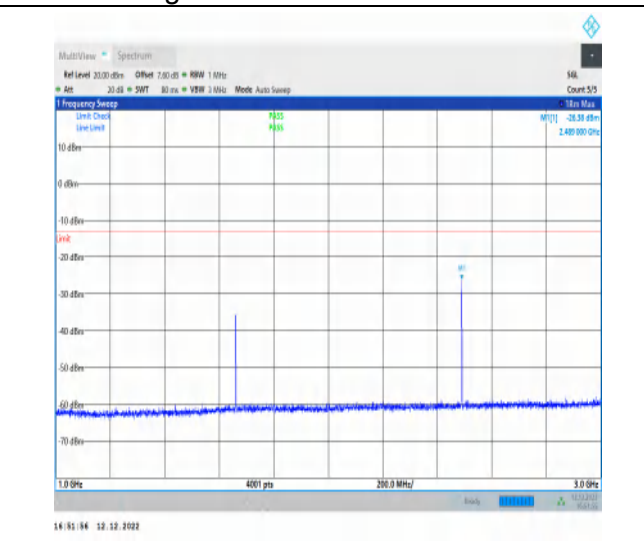


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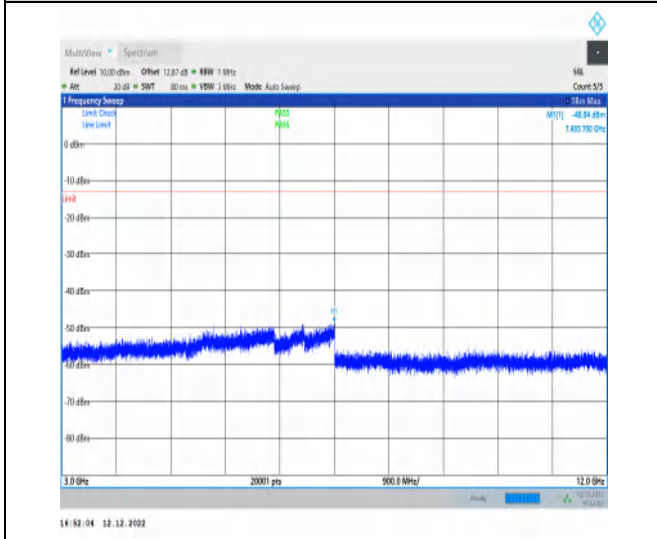




1-N5-15-20-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1  
 -30-1000-Ant1-33.88--53.99--13-PASS



1-N5-15-20-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1  
 -1000-3000-Ant1-2489.00--26.38--13-PASS



1-N5-15-20-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1  
 -3000-12000-Ant1-7493.70--48.84--13-PASS



## Field Strength of Spurious Radiation

Test Band = SA Band 5 ANT 2\_TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649	47.76	-48.38	25.58	-70.31	-13.00	57.31	219	246	Horizontal
2	2468.5	59.61	-47.01	27.84	-54.82	-13.00	41.82	154	333	Horizontal
3	3298	45.61	-46.11	29.48	-66.28	-13.00	53.28	287	11	Horizontal
4	4125.45	41.53	-45.33	30.80	-68.26	-13.00	55.26	327	65	Horizontal
5	4950.54	40.41	-45.08	32.48	-67.45	-13.00	54.45	224	0	Horizontal
6	5775.63	39.32	-43.52	33.48	-65.98	-13.00	52.98	169	4	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649	51.17	-48.38	25.58	-66.90	-13.00	53.90	134	249	Vertical
2	2473.5	56.29	-46.97	27.85	-58.09	-13.00	45.09	179	235	Vertical
3	3298.5	45.04	-46.11	29.48	-66.85	-13.00	53.85	216	175	Vertical
4	4125.45	41.21	-45.33	30.80	-68.58	-13.00	55.58	237	204	Vertical
5	4950.54	40.20	-45.08	32.48	-67.66	-13.00	54.66	198	145	Vertical
6	5775.63	39.29	-43.52	33.48	-66.01	-13.00	53.01	336	338	Vertical



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Test Band = SA Band 5 ANT 2\_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654	50.52	-48.37	25.57	-67.54	-13.00	54.54	274	241	Horizontal
2	2481	57.99	-46.90	27.86	-56.31	-13.00	43.31	213	33	Horizontal
3	3310.36	42.66	-46.13	29.48	-69.25	-13.00	56.25	186	167	Horizontal
4	4137.95	41.05	-45.30	30.82	-68.69	-13.00	55.69	351	257	Horizontal
5	4965.54	40.63	-45.06	32.52	-67.17	-13.00	54.17	209	316	Horizontal
6	5793.13	39.79	-43.51	33.54	-65.44	-13.00	52.44	152	316	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654	52.35	-48.37	25.57	-65.71	-13.00	52.71	312	104	Vertical
2	2481	57.86	-46.90	27.86	-56.44	-13.00	43.44	211	58	Vertical
3	3310.36	42.41	-46.13	29.48	-69.50	-13.00	56.50	169	132	Vertical
4	4137.95	41.85	-45.30	30.82	-67.89	-13.00	54.89	286	313	Vertical
5	4965.54	40.00	-45.06	32.52	-67.80	-13.00	54.80	136	360	Vertical
6	5793.13	39.92	-43.51	33.54	-65.31	-13.00	52.31	264	163	Vertical



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Test Band = SA Band 5 ANT 2\_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1659	51.94	-48.35	25.57	-66.10	-13.00	53.10	196	241	Horizontal
2	2488.5	57.92	-46.84	27.88	-56.30	-13.00	43.30	285	35	Horizontal
3	3318	47.37	-46.14	29.47	-64.56	-13.00	51.56	263	12	Horizontal
4	4150.45	41.37	-45.26	30.84	-68.31	-13.00	55.31	181	271	Horizontal
5	4980.54	39.69	-45.04	32.55	-68.05	-13.00	55.05	336	227	Horizontal
6	5810.63	39.79	-43.48	33.60	-65.35	-13.00	52.35	157	80	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1659	55.85	-48.35	25.57	-62.19	-13.00	49.19	266	248	Vertical
2	2488.5	59.83	-46.84	27.88	-54.39	-13.00	41.39	287	56	Vertical
3	3318	46.05	-46.14	29.47	-65.88	-13.00	52.88	312	56	Vertical
4	4150.45	41.05	-45.26	30.84	-68.63	-13.00	55.63	352	359	Vertical
5	4980.54	40.14	-45.04	32.55	-67.60	-13.00	54.60	169	191	Vertical
6	5810.63	39.83	-43.48	33.60	-65.31	-13.00	52.31	213	262	Vertical



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Test Band = ENDC B66A\_n5A\_TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650.18	35.53	-25.28	25.57	-59.44	-13.00	46.44	206	200	Horizontal
2	2475.27	36.75	-24.00	27.85	-54.66	-13.00	41.66	335	191	Horizontal
3	3300.36	42.09	-45.88	29.48	-69.57	-13.00	56.57	284	131	Horizontal
4	4125.45	41.28	-45.01	30.80	-68.18	-13.00	55.18	159	148	Horizontal
5	4950.54	41.00	-44.91	32.48	-66.69	-13.00	53.69	256	280	Horizontal
6	5775.63	38.18	-43.52	33.48	-67.12	-13.00	54.12	167	32	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650.18	36.03	-25.28	25.57	-58.94	-13.00	45.94	135	104	Vertical
2	2475.27	37.10	-24.00	27.85	-54.31	-13.00	41.31	191	3	Vertical
3	3300.36	42.36	-45.88	29.48	-69.30	-13.00	56.30	286	77	Vertical
4	4125.45	41.01	-45.01	30.80	-68.45	-13.00	55.45	336	0	Vertical
5	4950.54	39.85	-44.91	32.48	-67.84	-13.00	54.84	254	357	Vertical
6	5775.63	38.55	-43.52	33.48	-66.75	-13.00	53.75	176	277	Vertical



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Test Band = ENDC B66A\_n5A\_TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1655.18	35.52	-25.27	25.57	-59.44	-13.00	46.44	237	20	Horizontal
2	2482.77	36.66	-23.96	27.87	-54.69	-13.00	41.69	192	360	Horizontal
3	3310.36	43.12	-45.89	29.48	-68.55	-13.00	55.55	256	77	Horizontal
4	4137.95	40.63	-45.01	30.82	-68.82	-13.00	55.82	348	260	Horizontal
5	4965.54	39.82	-44.92	32.52	-67.84	-13.00	54.84	301	6	Horizontal
6	5793.13	39.13	-43.47	33.54	-66.06	-13.00	53.06	216	194	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1655.18	36.04	-25.27	25.57	-58.92	-13.00	45.92	284	262	Vertical
2	2482.77	36.97	-23.96	27.87	-54.38	-13.00	41.38	233	188	Vertical
3	3310.36	41.67	-45.89	29.48	-70.00	-13.00	57.00	196	229	Vertical
4	4137.95	41.69	-45.01	30.82	-67.76	-13.00	54.76	158	195	Vertical
5	4965.54	41.33	-44.92	32.52	-66.33	-13.00	53.33	214	0	Vertical
6	5793.13	39.05	-43.47	33.54	-66.14	-13.00	53.14	336	111	Vertical



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Test Band = ENDC B66A\_n5A\_TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1660.18	35.73	-25.25	25.57	-59.21	-13.00	46.21	261	324	Horizontal
2	2490.27	36.82	-23.92	27.88	-54.48	-13.00	41.48	354	260	Horizontal
3	3320.36	42.37	-45.89	29.47	-69.31	-13.00	56.31	297	76	Horizontal
4	4150.45	41.05	-45.01	30.84	-68.38	-13.00	55.38	183	326	Horizontal
5	4980.54	40.03	-44.93	32.55	-67.60	-13.00	54.60	164	93	Horizontal
6	5810.63	39.38	-43.45	33.60	-65.74	-13.00	52.74	245	13	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1660.18	35.73	-25.25	25.57	-59.21	-13.00	46.21	315	53	Vertical
2	2490.27	36.87	-23.92	27.88	-54.43	-13.00	41.43	266	360	Vertical
3	3320.36	42.36	-45.89	29.47	-69.32	-13.00	56.32	328	78	Vertical
4	4150.45	40.45	-45.01	30.84	-68.98	-13.00	55.98	241	345	Vertical
5	4980.54	40.08	-44.93	32.55	-67.55	-13.00	54.55	168	111	Vertical
6	5810.63	39.19	-43.45	33.60	-65.93	-13.00	52.93	213	228	Vertical



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Test Band = n5A\_n77A 3450M-3550M\_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650.18	30.83	-25.28	25.57	-64.14	-13.00	51.14	296	93	Horizontal
2	2475.27	30.88	-24.00	27.85	-60.53	-13.00	47.53	236	186	Horizontal
3	3300.36	30.18	-22.59	29.48	-58.19	-13.00	45.19	265	352	Horizontal
4	4125.45	27.68	-20.45	30.80	-57.23	-13.00	44.23	241	266	Horizontal
5	4950.54	28.90	-18.99	32.48	-52.87	-13.00	39.87	142	360	Horizontal
6	5775.63	29.02	-16.36	33.48	-49.12	-13.00	36.12	263	294	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650.18	31.35	-25.28	25.57	-63.62	-13.00	50.62	269	307	Vertical
2	2475.27	30.55	-24.00	27.85	-60.86	-13.00	47.86	284	333	Vertical
3	3300.36	30.41	-22.59	29.48	-57.96	-13.00	44.96	142	3	Vertical
4	4125.45	28.46	-20.45	30.80	-56.45	-13.00	43.45	263	360	Vertical
5	4950.54	29.34	-18.99	32.48	-52.43	-13.00	39.43	255	12	Vertical
6	5775.63	29.51	-16.36	33.48	-48.63	-13.00	35.63	284	25	Vertical



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Wireless Laboratory

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Test Band = n5A\_n77A 3700M-3980M\_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1655.18	31.33	-25.27	25.57	-63.63	-13.00	50.63	296	203	Horizontal
2	2482.77	31.59	-23.96	27.87	-59.76	-13.00	46.76	265	310	Horizontal
3	3310.36	30.29	-22.59	29.48	-58.08	-13.00	45.08	284	40	Horizontal
4	4137.95	28.30	-20.44	30.82	-56.58	-13.00	43.58	142	53	Horizontal
5	4965.54	28.81	-18.94	32.52	-52.87	-13.00	39.87	255	324	Horizontal
6	5793.13	28.81	-16.24	33.54	-49.16	-13.00	36.16	263	136	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1655.18	31.74	-25.27	25.57	-63.22	-13.00	50.22	201	52	Vertical
2	2482.77	31.32	-23.96	27.87	-60.03	-13.00	47.03	185	77	Vertical
3	3310.36	30.78	-22.59	29.48	-57.59	-13.00	44.59	263	237	Vertical
4	4137.95	28.28	-20.44	30.82	-56.60	-13.00	43.60	265	360	Vertical
5	4965.54	28.55	-18.94	32.52	-53.13	-13.00	40.13	288	158	Vertical
6	5793.13	29.03	-16.24	33.54	-48.94	-13.00	35.94	247	356	Vertical



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**Test Band = n5A\_n77A 3700M-3980M\_ TM1**  
**Test Channel = Mid Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1616.9167	32.20	-25.39	25.59	-62.86	-13.00	49.86	296	360	Horizontal
2	2417.625	34.72	-24.31	27.74	-57.11	-13.00	44.11	265	360	Horizontal
3	4768.4167	29.29	-18.63	32.04	-52.55	-13.00	39.55	284	215	Horizontal
4	5785.9167	35.76	-16.29	33.51	-42.28	-13.00	29.28	142	353	Horizontal
5	7402.2708	47.30	-41.98	36.44	-53.50	-13.00	40.50	255	289	Horizontal
6	10832.1458	34.70	-35.66	39.42	-56.80	-13.00	43.80	263	1	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1711.3333	32.29	-25.14	25.54	-62.56	-13.00	49.56	174	136	Vertical
2	2685.2917	31.85	-23.88	28.53	-58.76	-13.00	45.76	142	218	Vertical
3	5041.5833	29.98	-18.64	32.60	-51.32	-13.00	38.32	296	283	Vertical
4	6281.8333	30.64	-16.07	34.76	-45.93	-13.00	32.93	263	360	Vertical
5	7402.2708	49.93	-41.98	36.44	-50.87	-13.00	37.87	221	341	Vertical
6	11160.375	33.21	-35.11	39.44	-57.72	-13.00	44.72	185	15	Vertical



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**Test Band = n5A\_n77A 3700M-3980M\_ TM1**  
**Test Channel = High Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1660.18	31.21	-25.25	25.57	-63.73	-13.00	50.73	296	27	Horizontal
2	2490.27	30.65	-23.92	27.88	-60.65	-13.00	47.65	285	321	Horizontal
3	3320.36	30.74	-22.58	29.47	-57.63	-13.00	44.63	241	53	Horizontal
4	4150.45	27.59	-20.43	30.84	-57.26	-13.00	44.26	142	107	Horizontal
5	4980.54	28.90	-18.89	32.55	-52.69	-13.00	39.69	255	174	Horizontal
6	5810.63	28.74	-16.22	33.59	-49.15	-13.00	36.15	263	269	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1660.18	31.22	-25.25	25.57	-63.72	-13.00	50.72	296	359	Vertical
2	2490.27	30.93	-23.92	27.88	-60.37	-13.00	47.37	285	253	Vertical
3	3320.36	30.78	-22.58	29.47	-57.59	-13.00	44.59	214	132	Vertical
4	4150.45	28.46	-20.43	30.84	-56.39	-13.00	43.39	142	239	Vertical
5	4980.54	29.38	-18.89	32.55	-52.21	-13.00	39.21	255	200	Vertical
6	5810.63	29.08	-16.22	33.59	-48.81	-13.00	35.81	263	360	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	-6.700000	-0.008010	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-8.100000	-0.009683	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VH	NT	-0.900000	-0.001076	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VN	NT	0.900000	0.001076	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VL	NT	-2.200000	-0.002630	±2.5	PASS



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Frequency Error VS. Temperature

Temperature											
Band	SC S	Bandwidth h	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Limit	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-40	9.300000	0.004940	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-7.000000	-0.008368	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-10.300000	-0.012313	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-4.100000	-0.004901	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	-2.500000	-0.002989	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	-8.200000	-0.009803	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	-2.800000	-0.003347	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	-4.100000	-0.004901	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	-6.700000	-0.008010	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	-7.200000	-0.008607	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	60	8.400000	0.004462	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	75	15.400000	0.008181	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-40	18.800000	0.009987	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-30	-3.800000	-0.004543	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-20	-0.500000	-0.000598	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-10	0.800000	0.000956	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	0	1.700000	0.002032	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	10	-3.800000	-0.004543	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	20	1.700000	0.002032	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	30	-0.400000	-0.000478	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	40	-1.900000	-0.002271	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	50	1.200000	0.001435	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	60	17.600000	0.009349	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	75	15.000000	0.007968	±2.5	PASS

---End of Attachment---



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