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# Appendix B.16

## NR Band n14



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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
N14	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	23.42	23.46	34.77	PASS
N14	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	23.30	23.34	34.77	PASS
N14	15	5	DFT-PI2BPSK	L	Outer_Full	22.82	22.86	34.77	PASS
N14	15	5	DFT-QPSK	L	Inner_1RB_Left	23.39	23.43	34.77	PASS
N14	15	5	DFT-QPSK	L	Inner_1RB_Right	23.24	23.28	34.77	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	22.35	22.39	34.77	PASS
N14	15	5	DFT-16QAM	L	Inner_1RB_Left	22.41	22.45	34.77	PASS
N14	15	5	DFT-16QAM	L	Inner_1RB_Right	22.28	22.32	34.77	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	21.41	21.45	34.77	PASS
N14	15	5	DFT-64QAM	L	Inner_1RB_Left	21.14	21.18	34.77	PASS
N14	15	5	DFT-64QAM	L	Inner_1RB_Right	21.02	21.06	34.77	PASS
N14	15	5	DFT-64QAM	L	Outer_Full	20.80	20.84	34.77	PASS
N14	15	5	DFT-256QAM	L	Inner_1RB_Left	18.41	18.45	34.77	PASS
N14	15	5	DFT-256QAM	L	Inner_1RB_Right	18.35	18.39	34.77	PASS
N14	15	5	DFT-256QAM	L	Outer_Full	18.81	18.85	34.77	PASS
N14	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	23.33	23.37	34.77	PASS
N14	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	23.26	23.30	34.77	PASS
N14	15	5	DFT-PI2BPSK	M	Outer_Full	22.83	22.87	34.77	PASS
N14	15	5	DFT-QPSK	M	Inner_1RB_Left	23.27	23.31	34.77	PASS
N14	15	5	DFT-QPSK	M	Inner_1RB_Right	23.16	23.20	34.77	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	22.31	22.35	34.77	PASS
N14	15	5	DFT-16QAM	M	Inner_1RB_Left	22.30	22.34	34.77	PASS
N14	15	5	DFT-16QAM	M	Inner_1RB_Right	22.21	22.25	34.77	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	21.38	21.42	34.77	PASS
N14	15	5	DFT-64QAM	M	Inner_1RB_Left	21.02	21.06	34.77	PASS
N14	15	5	DFT-64QAM	M	Inner_1RB_Right	20.97	21.01	34.77	PASS
N14	15	5	DFT-64QAM	M	Outer_Full	20.87	20.91	34.77	PASS
N14	15	5	DFT-256QAM	M	Inner_1RB_Left	18.33	18.37	34.77	PASS
N14	15	5	DFT-256QAM	M	Inner_1RB_Right	18.34	18.38	34.77	PASS
N14	15	5	DFT-256QAM	M	Outer_Full	18.89	18.93	34.77	PASS
N14	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	23.35	23.39	34.77	PASS
N14	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	23.27	23.31	34.77	PASS



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N14	15	5	DFT-PI2BPSK	H	Outer_Full	22.83	22.87	34.77	PASS
N14	15	5	DFT-QPSK	H	Inner_1RB_Left	23.29	23.33	34.77	PASS
N14	15	5	DFT-QPSK	H	Inner_1RB_Right	23.17	23.21	34.77	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	22.29	22.33	34.77	PASS
N14	15	5	DFT-16QAM	H	Inner_1RB_Left	22.28	22.32	34.77	PASS
N14	15	5	DFT-16QAM	H	Inner_1RB_Right	22.22	22.26	34.77	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	21.32	21.36	34.77	PASS
N14	15	5	DFT-64QAM	H	Inner_1RB_Left	21.01	21.05	34.77	PASS
N14	15	5	DFT-64QAM	H	Inner_1RB_Right	20.97	21.01	34.77	PASS
N14	15	5	DFT-64QAM	H	Outer_Full	20.84	20.88	34.77	PASS
N14	15	5	DFT-256QAM	H	Inner_1RB_Left	18.32	18.36	34.77	PASS
N14	15	5	DFT-256QAM	H	Inner_1RB_Right	18.31	18.35	34.77	PASS
N14	15	5	DFT-256QAM	H	Outer_Full	18.78	18.82	34.77	PASS
N14	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	23.30	23.34	34.77	PASS
N14	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	23.20	23.24	34.77	PASS
N14	15	10	DFT-PI2BPSK	L	Outer_Full	22.85	22.89	34.77	PASS
N14	15	10	DFT-QPSK	L	Inner_1RB_Left	23.34	23.38	34.77	PASS
N14	15	10	DFT-QPSK	L	Inner_1RB_Right	23.22	23.26	34.77	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	22.32	22.36	34.77	PASS
N14	15	10	DFT-16QAM	L	Inner_1RB_Left	22.39	22.43	34.77	PASS
N14	15	10	DFT-16QAM	L	Inner_1RB_Right	22.26	22.30	34.77	PASS
N14	15	10	DFT-16QAM	L	Outer_Full	21.33	21.37	34.77	PASS
N14	15	10	DFT-64QAM	L	Inner_1RB_Left	21.17	21.21	34.77	PASS
N14	15	10	DFT-64QAM	L	Inner_1RB_Right	20.99	21.03	34.77	PASS
N14	15	10	DFT-64QAM	L	Outer_Full	20.80	20.84	34.77	PASS
N14	15	10	DFT-256QAM	L	Inner_1RB_Left	18.37	18.41	34.77	PASS
N14	15	10	DFT-256QAM	L	Inner_1RB_Right	18.32	18.36	34.77	PASS
N14	15	10	DFT-256QAM	L	Outer_Full	18.72	18.76	34.77	PASS
N14	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	23.35	23.39	34.77	PASS
N14	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	23.20	23.24	34.77	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	22.81	22.85	34.77	PASS
N14	15	10	DFT-QPSK	M	Inner_1RB_Left	23.42	23.46	34.77	PASS
N14	15	10	DFT-QPSK	M	Inner_1RB_Right	23.23	23.27	34.77	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	22.33	22.37	34.77	PASS
N14	15	10	DFT-16QAM	M	Inner_1RB_Left	22.41	22.45	34.77	PASS
N14	15	10	DFT-16QAM	M	Inner_1RB_Right	22.28	22.32	34.77	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	21.27	21.31	34.77	PASS



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N14	15	10	DFT-64QAM	M	Inner_1RB_Left	21.11	21.15	34.77	PASS
N14	15	10	DFT-64QAM	M	Inner_1RB_Right	20.96	21.00	34.77	PASS
N14	15	10	DFT-64QAM	M	Outer_Full	20.78	20.82	34.77	PASS
N14	15	10	DFT-256QAM	M	Inner_1RB_Left	18.36	18.40	34.77	PASS
N14	15	10	DFT-256QAM	M	Inner_1RB_Right	18.31	18.35	34.77	PASS
N14	15	10	DFT-256QAM	M	Outer_Full	18.78	18.82	34.77	PASS
N14	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	23.36	23.40	34.77	PASS
N14	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	23.18	23.22	34.77	PASS
N14	15	10	DFT-PI2BPSK	H	Outer_Full	22.92	22.96	34.77	PASS
N14	15	10	DFT-QPSK	H	Inner_1RB_Left	23.43	23.47	34.77	PASS
N14	15	10	DFT-QPSK	H	Inner_1RB_Right	23.22	23.26	34.77	PASS
N14	15	10	DFT-QPSK	H	Outer_Full	22.35	22.39	34.77	PASS
N14	15	10	DFT-16QAM	H	Inner_1RB_Left	22.41	22.45	34.77	PASS
N14	15	10	DFT-16QAM	H	Inner_1RB_Right	22.24	22.28	34.77	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	21.26	21.30	34.77	PASS
N14	15	10	DFT-64QAM	H	Inner_1RB_Left	21.12	21.16	34.77	PASS
N14	15	10	DFT-64QAM	H	Inner_1RB_Right	20.96	21.00	34.77	PASS
N14	15	10	DFT-64QAM	H	Outer_Full	20.84	20.88	34.77	PASS
N14	15	10	DFT-256QAM	H	Inner_1RB_Left	18.36	18.40	34.77	PASS
N14	15	10	DFT-256QAM	H	Inner_1RB_Right	18.31	18.35	34.77	PASS
N14	15	10	DFT-256QAM	H	Outer_Full	18.76	18.80	34.77	PASS



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## Peak-to-Average Ratio for SA

## Peak-to-Average Ratio(PAPR)

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	DutyCycle	Factor	Result	Limit	Verdict
N14	15	10	DFT-256QAM	L	Outer_Full	100%	0.00	8.56	≤13	PASS
N14	15	10	CP-256QAM	L	Outer_Full	100%	0.00	9.23	≤13	PASS



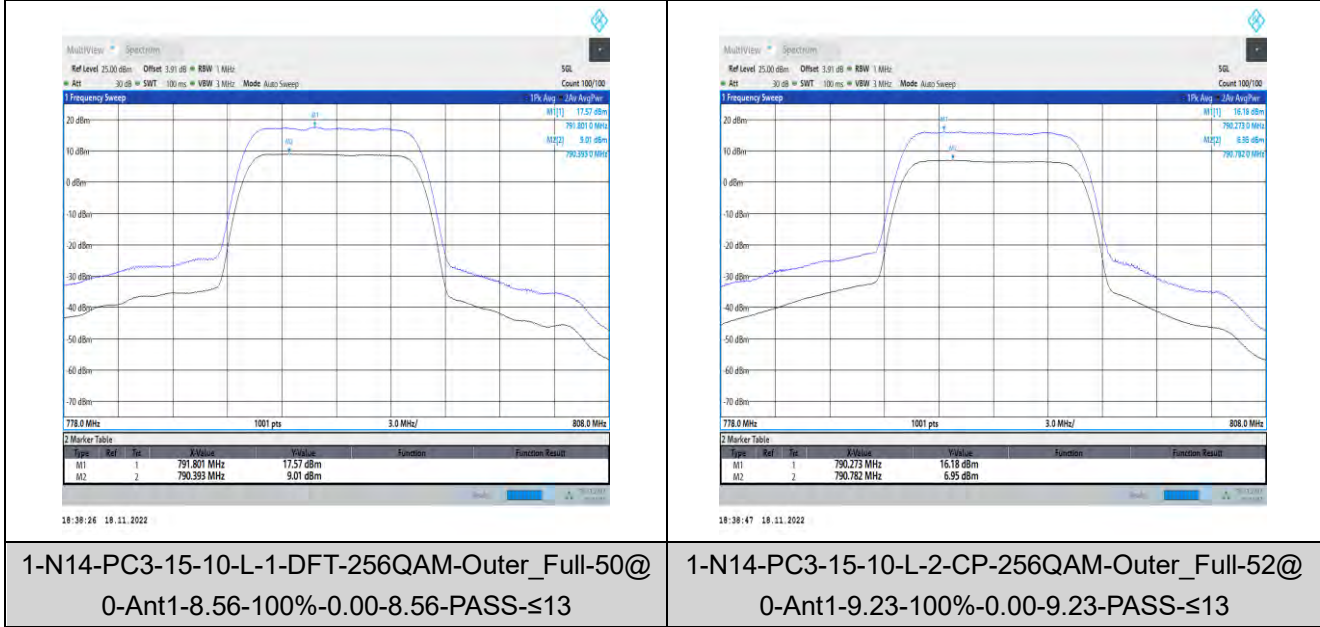
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Test Graphs



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## Modulation characteristics for SA

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N14	15	10	DFT-PI2BPSK	M	Outer_Full	see graph	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	see graph	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	see graph	PASS
N14	15	10	DFT-64QAM	M	Outer_Full	see graph	PASS
N14	15	10	DFT-256QAM	M	Outer_Full	see graph	PASS
N14	15	10	CP-QPSK	M	Outer_Full	see graph	PASS
N14	15	10	CP-16QAM	M	Outer_Full	see graph	PASS
N14	15	10	CP-64QAM	M	Outer_Full	see graph	PASS
N14	15	10	CP-256QAM	M	Outer_Full	see graph	PASS



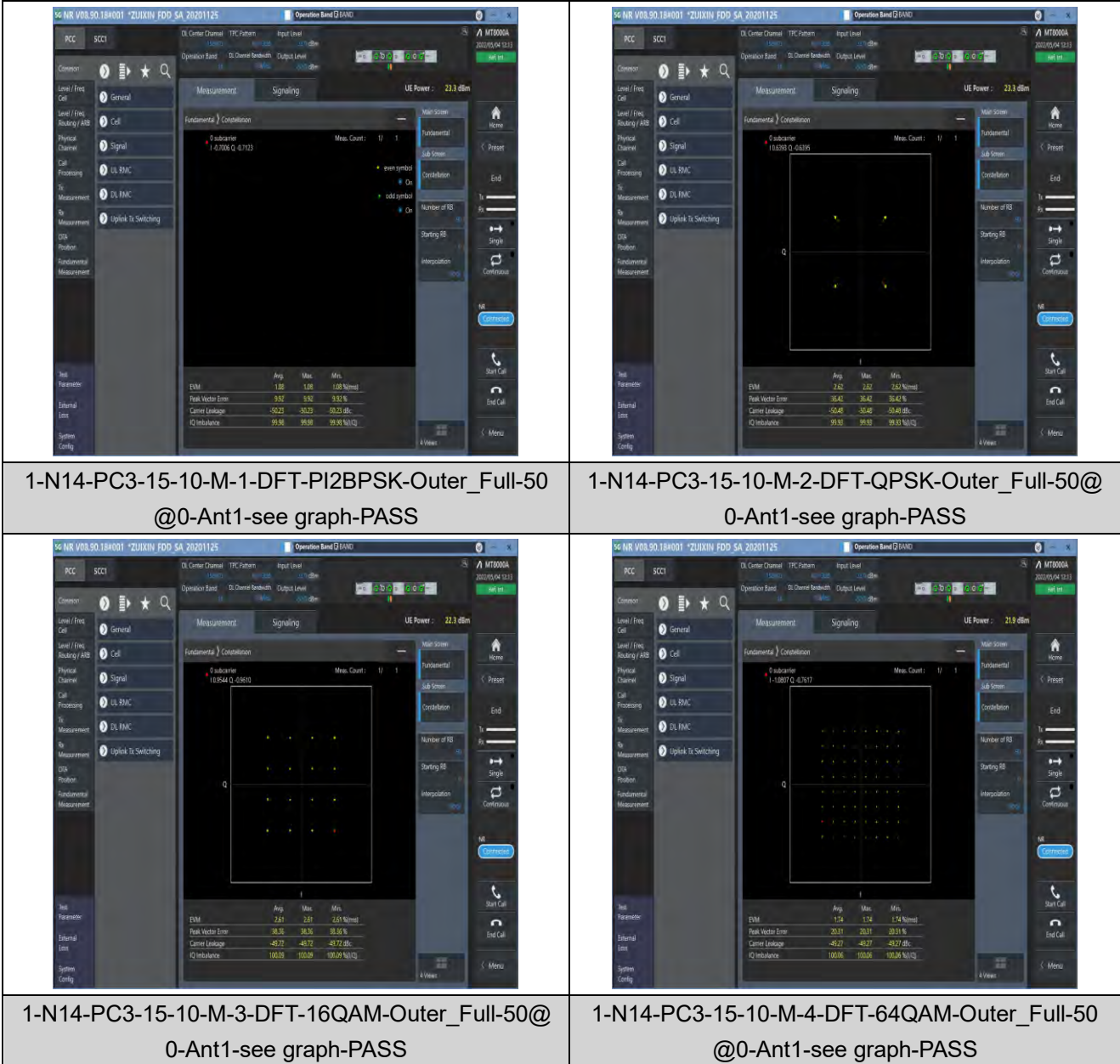
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Test Graphs



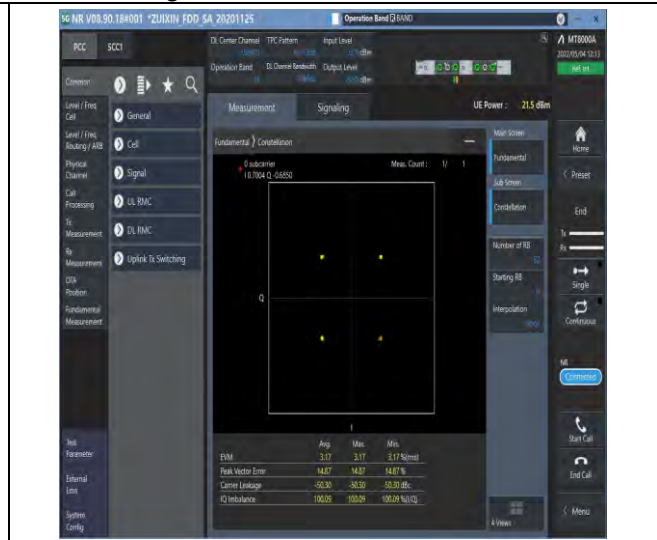
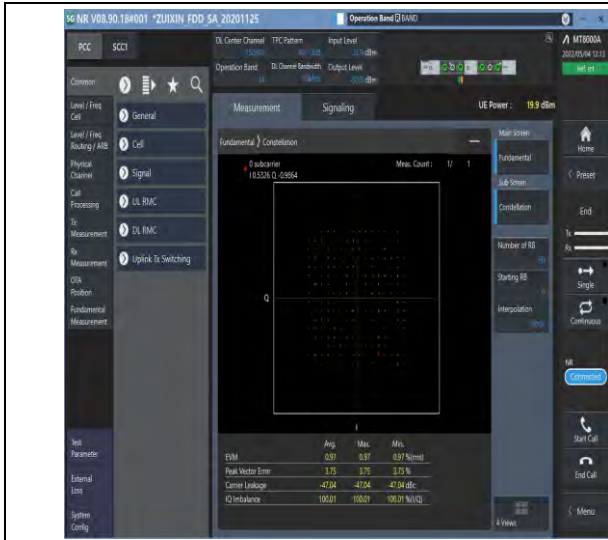
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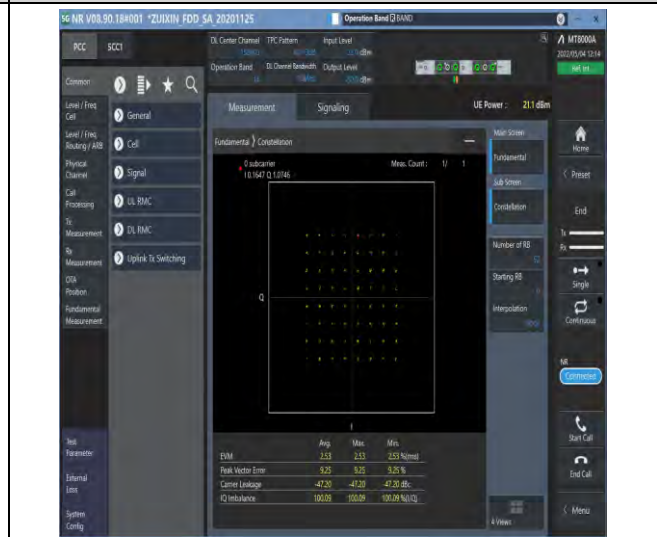
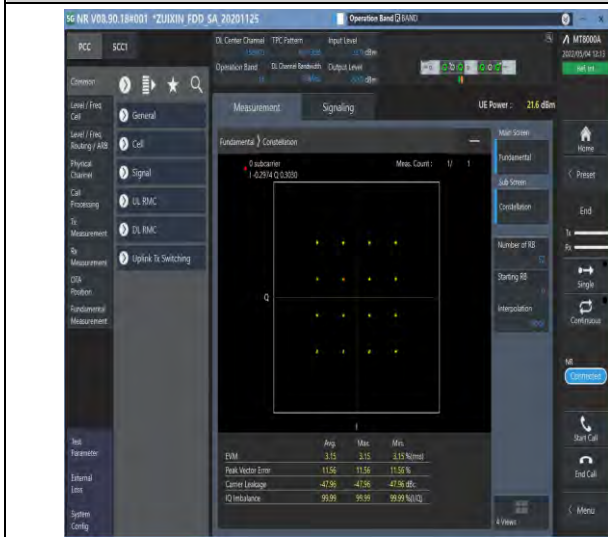
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1-N14-PC3-15-10-M-5-DFT-256QAM-Outer\_Full-50 @0-Ant1-see graph-PASS

1-N14-PC3-15-10-M-6-CP-QPSK-Outer\_Full-52@0-Ant1-see graph-PASS



1-N14-PC3-15-10-M-7-CP-16QAM-Outer\_Full-52@0-Ant1-see graph-PASS

1-N14-PC3-15-10-M-8-CP-64QAM-Outer\_Full-52@0-Ant1-see graph-PASS



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<p>1-N14-PC3-15-10-M-9-CP-256QAM-Outer_Full-52@ 0-Ant1-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
N14	15	5	DFT-QPSK	L	Outer_Full	4.465	4.840	PASS
N14	15	5	DFT-PI2BPSK	L	Outer_Full	4.479	5.040	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	4.483	5.030	PASS
N14	15	5	DFT-64QAM	L	Outer_Full	4.458	4.860	PASS
N14	15	5	DFT-256QAM	L	Outer_Full	4.479	5.050	PASS
N14	15	5	CP-QPSK	L	Outer_Full	4.478	5.110	PASS
N14	15	5	CP-16QAM	L	Outer_Full	4.496	5.160	PASS
N14	15	5	CP-64QAM	L	Outer_Full	4.477	4.970	PASS
N14	15	5	CP-256QAM	L	Outer_Full	4.478	5.160	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	4.467	4.940	PASS
N14	15	5	DFT-PI2BPSK	M	Outer_Full	4.469	4.930	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	4.486	4.930	PASS
N14	15	5	DFT-64QAM	M	Outer_Full	4.485	4.970	PASS
N14	15	5	DFT-256QAM	M	Outer_Full	4.494	5.030	PASS
N14	15	5	CP-QPSK	M	Outer_Full	4.485	5.160	PASS
N14	15	5	CP-16QAM	M	Outer_Full	4.481	5.130	PASS
N14	15	5	CP-64QAM	M	Outer_Full	4.486	5.060	PASS
N14	15	5	CP-256QAM	M	Outer_Full	4.476	5.020	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	4.475	4.890	PASS
N14	15	5	DFT-PI2BPSK	H	Outer_Full	4.467	4.960	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	4.487	5.060	PASS
N14	15	5	DFT-64QAM	H	Outer_Full	4.477	4.960	PASS
N14	15	5	DFT-256QAM	H	Outer_Full	4.471	4.980	PASS
N14	15	5	CP-QPSK	H	Outer_Full	4.489	5.050	PASS
N14	15	5	CP-16QAM	H	Outer_Full	4.487	5.100	PASS
N14	15	5	CP-64QAM	H	Outer_Full	4.48	5.050	PASS
N14	15	5	CP-256QAM	H	Outer_Full	4.486	5.150	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	8.924	9.640	PASS
N14	15	10	DFT-PI2BPSK	L	Outer_Full	8.904	9.580	PASS
N14	15	10	DFT-16QAM	L	Outer_Full	8.921	9.700	PASS
N14	15	10	DFT-64QAM	L	Outer_Full	8.922	9.720	PASS
N14	15	10	DFT-256QAM	L	Outer_Full	8.9	9.600	PASS



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Report No.: SEWM2206000070RG02  
 Rev.: 01  
 Page: 12 of 44

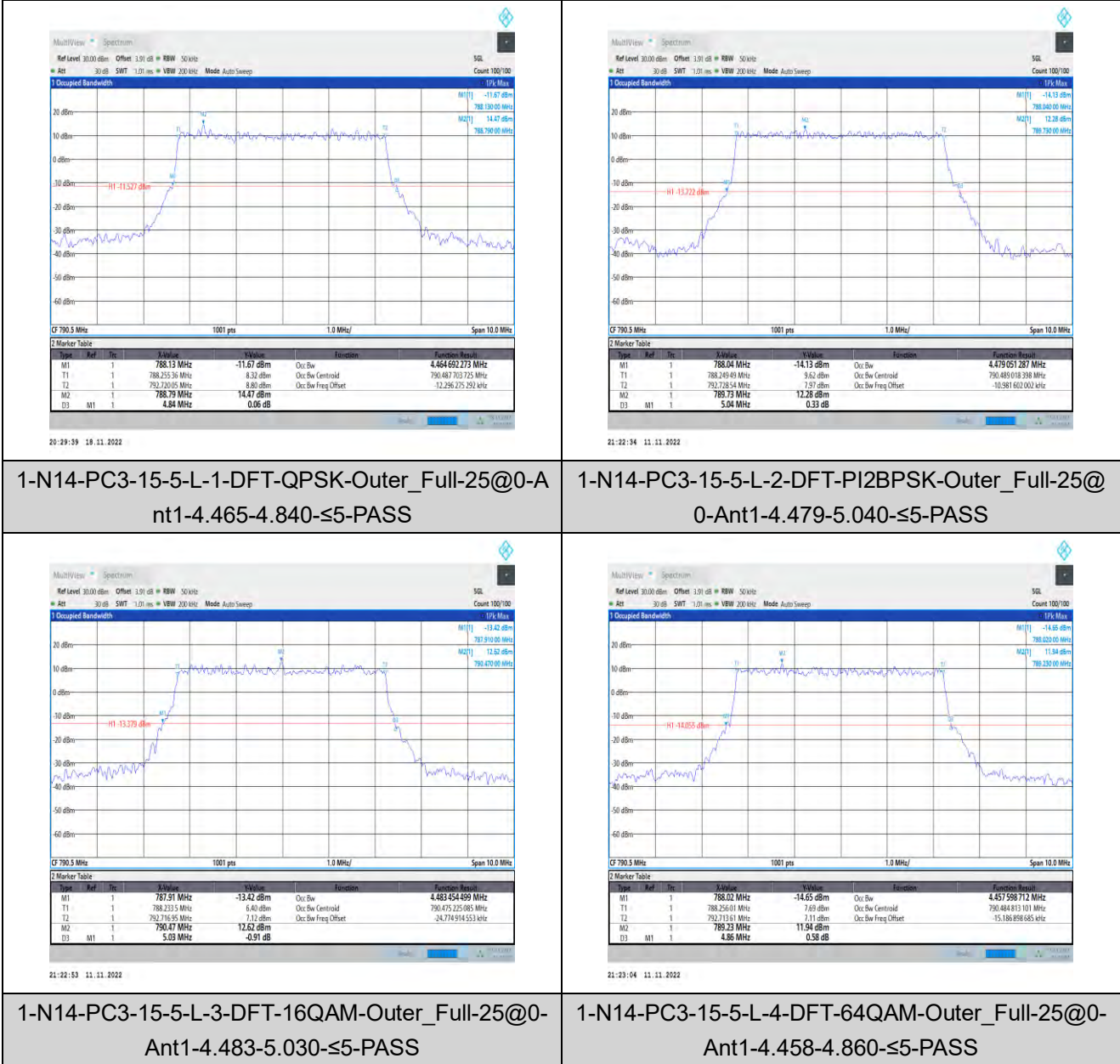
N14	15	10	CP-QPSK	L	Outer_Full	9.279	10.140	PASS
N14	15	10	CP-16QAM	L	Outer_Full	9.261	10.040	PASS
N14	15	10	CP-64QAM	L	Outer_Full	9.282	10.040	PASS
N14	15	10	CP-256QAM	L	Outer_Full	9.297	9.980	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	8.912	9.600	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	8.924	9.620	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	8.936	9.660	PASS
N14	15	10	DFT-64QAM	M	Outer_Full	8.939	9.600	PASS
N14	15	10	DFT-256QAM	M	Outer_Full	8.909	9.580	PASS
N14	15	10	CP-QPSK	M	Outer_Full	9.294	10.100	PASS
N14	15	10	CP-16QAM	M	Outer_Full	9.271	10.040	PASS
N14	15	10	CP-64QAM	M	Outer_Full	9.284	10.140	PASS
N14	15	10	CP-256QAM	M	Outer_Full	9.285	10.040	PASS
N14	15	10	DFT-QPSK	H	Outer_Full	8.935	9.680	PASS
N14	15	10	DFT-PI2BPSK	H	Outer_Full	8.907	9.660	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	8.92	9.700	PASS
N14	15	10	DFT-64QAM	H	Outer_Full	8.943	9.580	PASS
N14	15	10	DFT-256QAM	H	Outer_Full	8.931	9.520	PASS
N14	15	10	CP-QPSK	H	Outer_Full	9.274	10.000	PASS
N14	15	10	CP-16QAM	H	Outer_Full	9.272	10.020	PASS
N14	15	10	CP-64QAM	H	Outer_Full	9.273	10.020	PASS
N14	15	10	CP-256QAM	H	Outer_Full	9.311	9.940	PASS



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Test Graphs



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1-N14-PC3-15-5-L-5-DFT-256QAM-Outer\_Full-25@0-Ant1-4.479-5.050-≤5-PASS

1-N14-PC3-15-5-L-6-CP-QPSK-Outer\_Full-25@0-An t1-4.478-5.110-≤5-PASS



1-N14-PC3-15-5-L-7-CP-16QAM-Outer\_Full-25@0-Ant1-4.496-5.160-≤5-PASS

1-N14-PC3-15-5-L-8-CP-64QAM-Outer\_Full-25@0-Ant1-4.477-4.970-≤5-PASS



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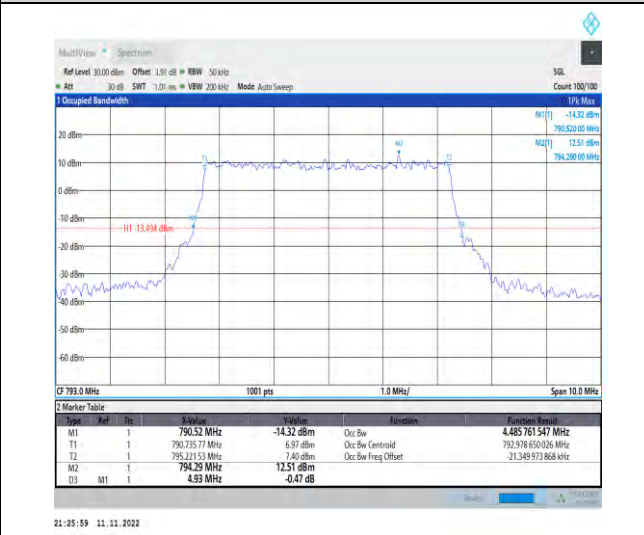
1-N14-PC3-15-5-L-9-CP-256QAM-Outer\_Full-25@0-Ant1-4.478-5.160-≤5-PASS



1-N14-PC3-15-5-M-1-DFT-QPSK-Outer\_Full-25@0-Ant1-4.467-4.940-≤5-PASS



1-N14-PC3-15-5-M-2-DFT-PI2BPSK-Outer\_Full-25@0-Ant1-4.469-4.930-≤5-PASS



1-N14-PC3-15-5-M-3-DFT-16QAM-Outer\_Full-25@0-Ant1-4.486-4.930-≤5-PASS



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1-N14-PC3-15-5-M-4-DFT-64QAM-Outer\_Full-25@0-Ant1-4.485-4.970-≤5-PASS



1-N14-PC3-15-5-M-5-DFT-256QAM-Outer\_Full-25@0-Ant1-4.494-5.030-≤5-PASS



1-N14-PC3-15-5-M-6-CP-QPSK-Outer\_Full-25@0-Ant1-4.485-5.160-≤5-PASS



1-N14-PC3-15-5-M-7-CP-16QAM-Outer\_Full-25@0-Ant1-4.481-5.130-≤5-PASS



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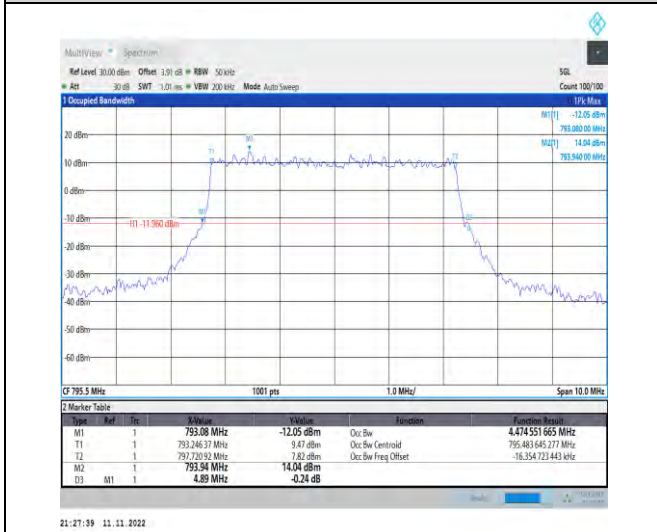
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1-N14-PC3-15-5-M-9-CP-256QAM-Outer\_Full-25@0-Ant1-4.476-5.020-≤5-PASS



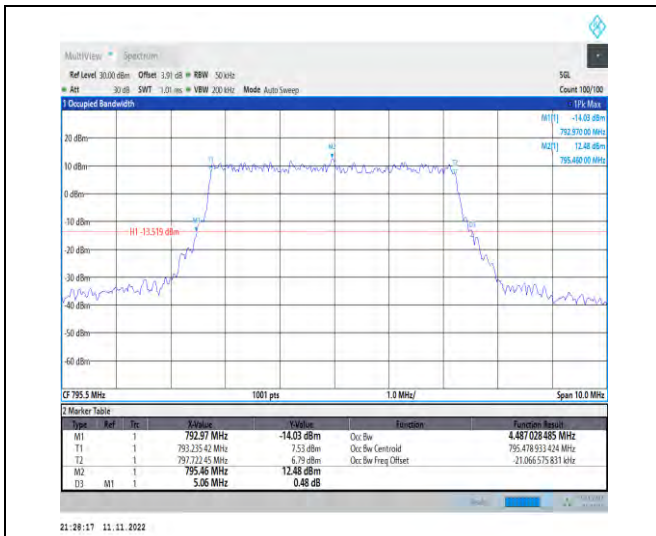
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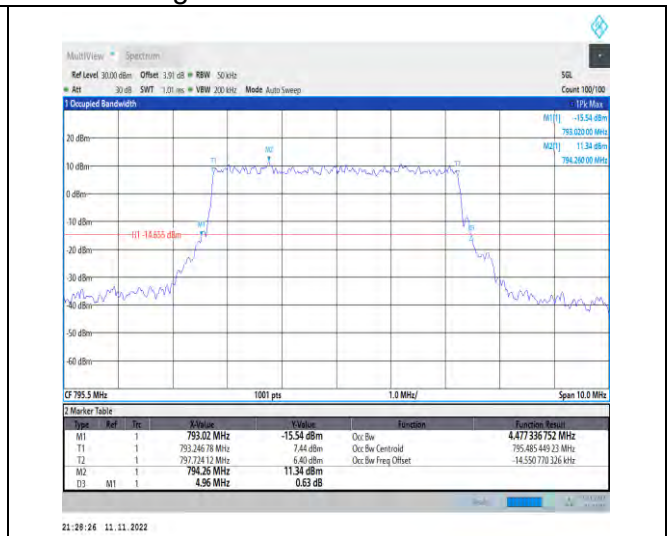


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1-N14-PC3-15-5-H-3-DFT-16QAM-Outer\_Full-25@0-Ant1-4.487-5.060-≤5-PASS



1-N14-PC3-15-5-H-4-DFT-64QAM-Outer\_Full-25@0-Ant1-4.477-4.960-≤5-PASS



1-N14-PC3-15-5-H-5-DFT-256QAM-Outer\_Full-25@0-Ant1-4.471-4.980-≤5-PASS

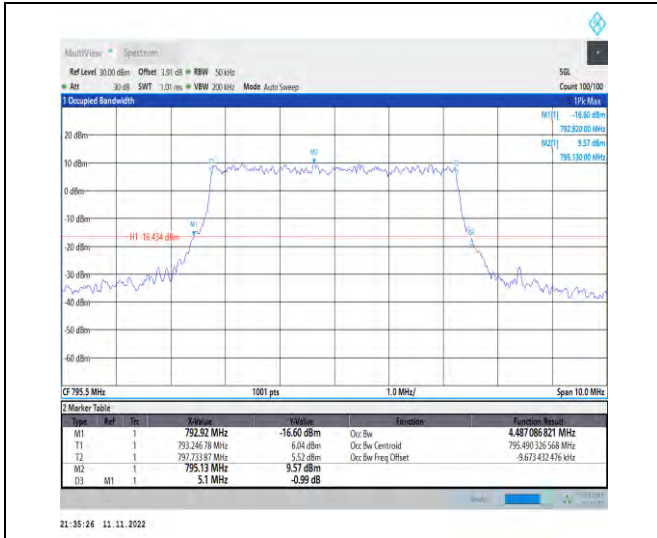


1-N14-PC3-15-5-H-6-CP-QPSK-Outer\_Full-25@0-Ant1-4.489-5.050-≤5-PASS



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1-N14-PC3-15-5-H-7-CP-16QAM-Outer\_Full-25@0-Ant1-4.487-5.100-≤5-PASS

1-N14-PC3-15-5-H-8-CP-64QAM-Outer\_Full-25@0-Ant1-4.48-5.050-≤5-PASS



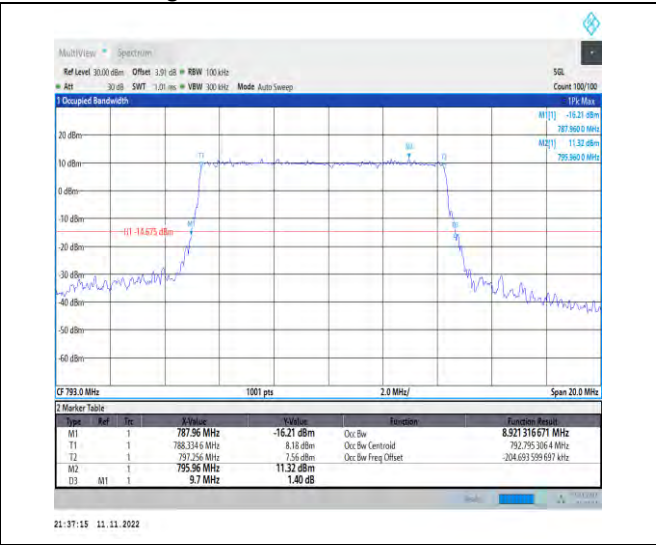
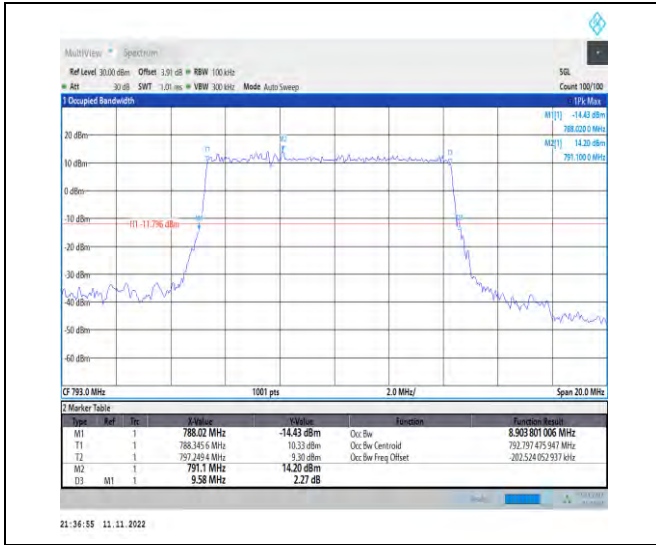
1-N14-PC3-15-5-H-9-CP-256QAM-Outer\_Full-25@0-Ant1-4.486-5.150-≤5-PASS

1-N14-PC3-15-10-L-1-DFT-QPSK-Outer\_Full-50@0-Ant1-8.924-9.640-≤10-PASS



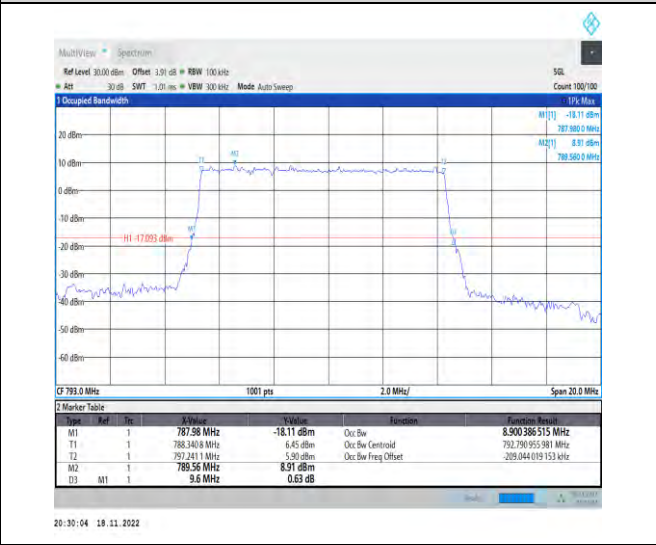
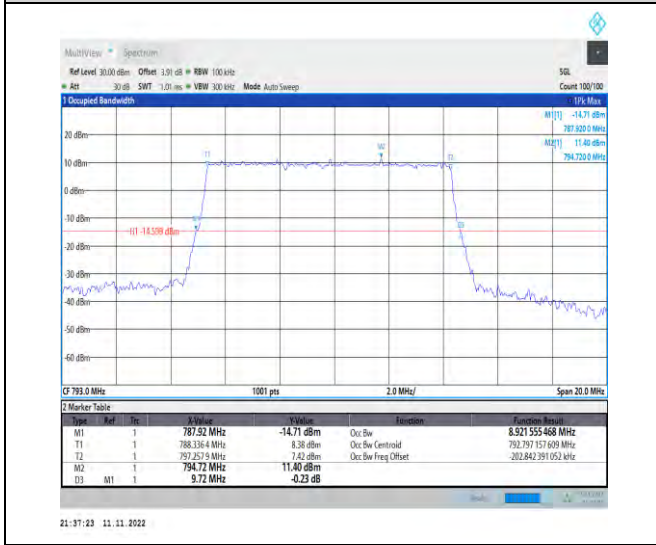
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1-N14-PC3-15-10-L-2-DFT-PI2BPSK-Outer\_Full-50 @0-Ant1-8.904-9.580-≤10-PASS

1-N14-PC3-15-10-L-3-DFT-16QAM-Outer\_Full-50 @0-Ant1-8.921-9.700-≤10-PASS



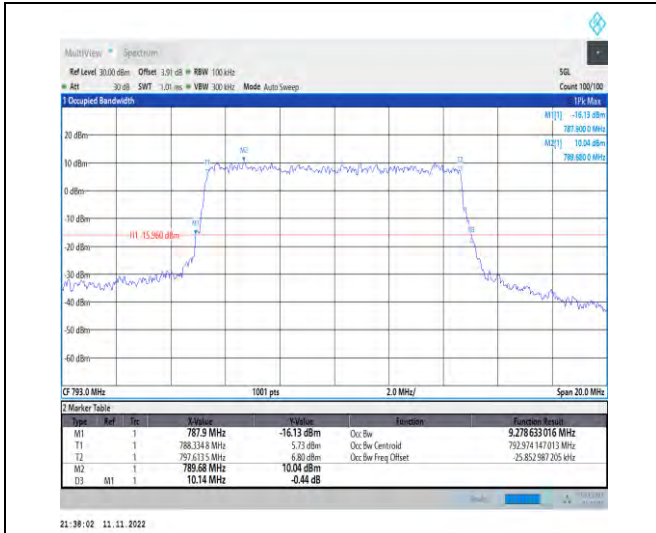
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1-N14-PC3-15-10-L-5-DFT-256QAM-Outer\_Full-50 @0-Ant1-8.9-9.600-≤10-PASS



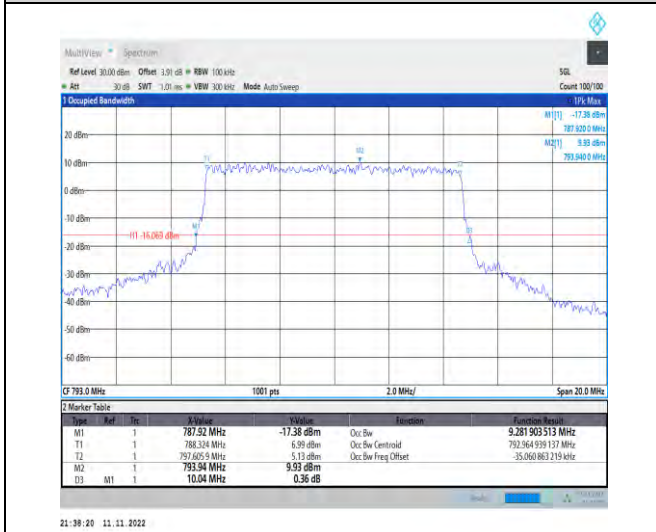
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1-N14-PC3-15-10-L-6-CP-QPSK-Outer\_Full-52@0-Ant1-9.279-10.140-≤10-PASS

1-N14-PC3-15-10-L-7-CP-16QAM-Outer\_Full-52@0-Ant1-9.261-10.040-≤10-PASS



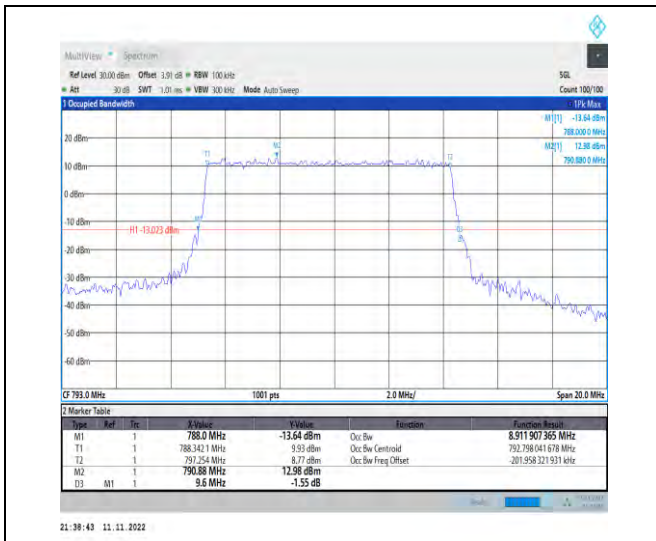
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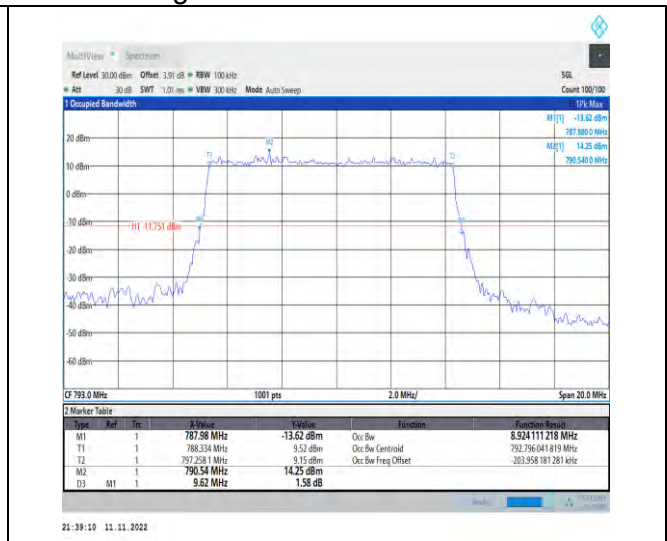


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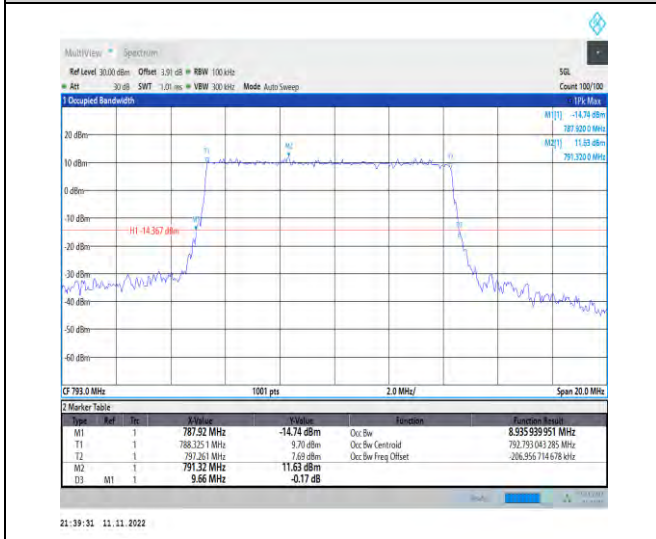
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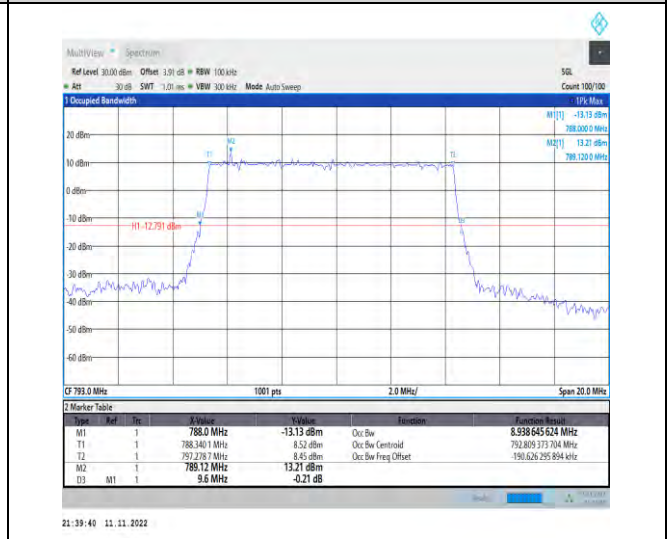
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1-N14-PC3-15-10-M-2-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-8.924-9.620-≤10-PASS



1-N14-PC3-15-10-M-3-DFT-16QAM-Outer\_Full-50@0-Ant1-8.936-9.660-≤10-PASS



1-N14-PC3-15-10-M-4-DFT-64QAM-Outer\_Full-50@0-Ant1-8.939-9.600-≤10-PASS



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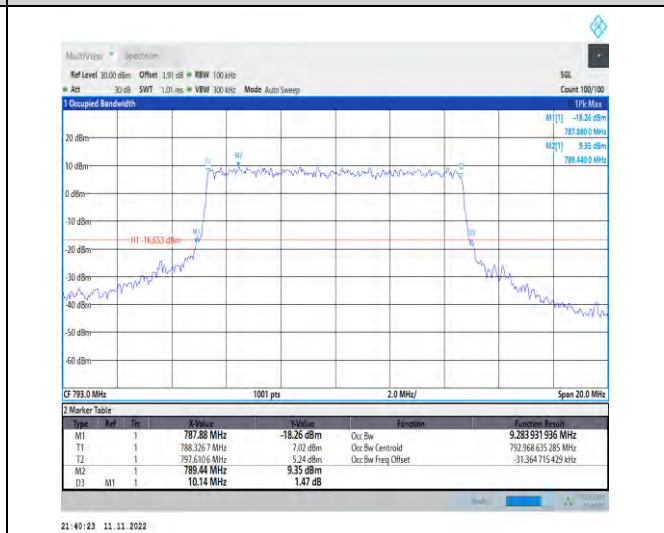
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1-N14-PC3-15-10-M-6-CP-QPSK-Outer\_Full-52@0-Ant1-9.294-10.100-≤10-PASS



1-N14-PC3-15-10-M-7-CP-16QAM-Outer\_Full-52@0-Ant1-9.271-10.040-≤10-PASS



1-N14-PC3-15-10-M-8-CP-64QAM-Outer\_Full-52@0-Ant1-9.284-10.140-≤10-PASS

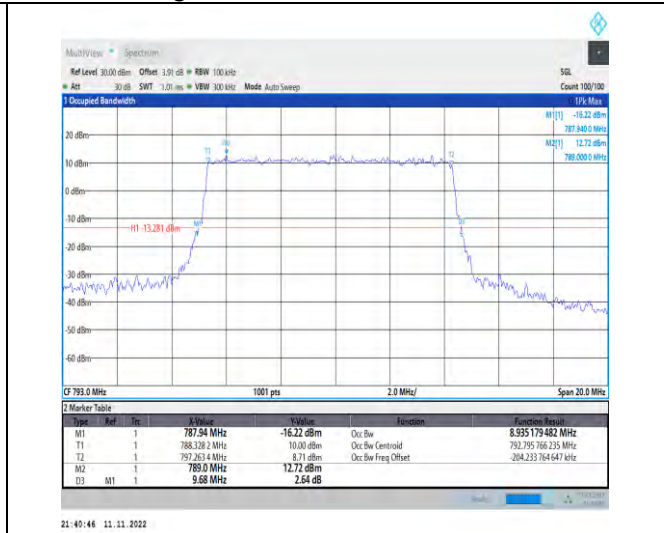


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1-N14-PC3-15-10-M-9-CP-256QAM-Outer\_Full-52@  
0-Ant1-9.285-10.040-≤10-PASS



1-N14-PC3-15-10-H-1-DFT-QPSK-Outer\_Full-50@0-  
Ant1-8.935-9.680-≤10-PASS



1-N14-PC3-15-10-H-2-DFT-PI2BPSK-Outer\_Full-50  
@0-Ant1-8.907-9.660-≤10-PASS



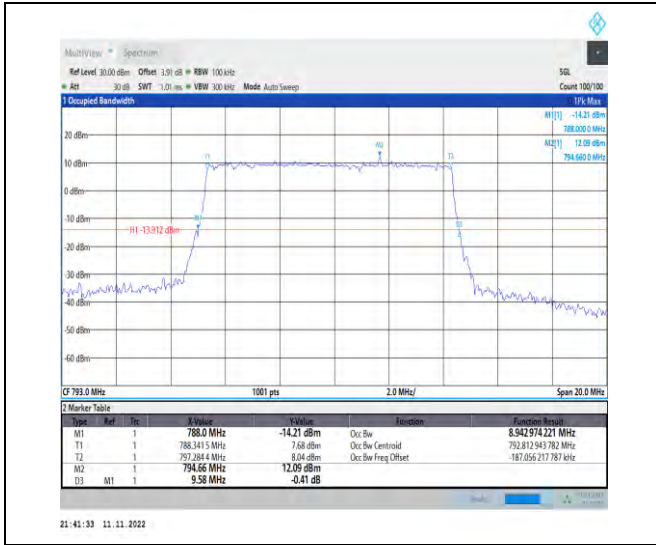
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0-Ant1-8.92-9.700-≤10-PASS



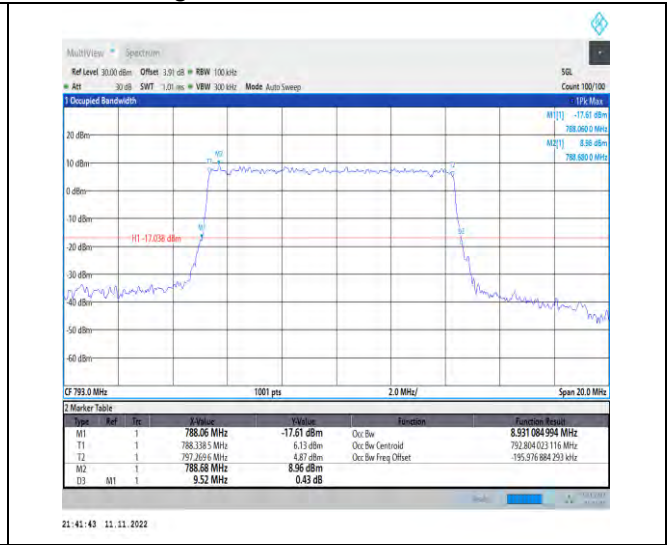
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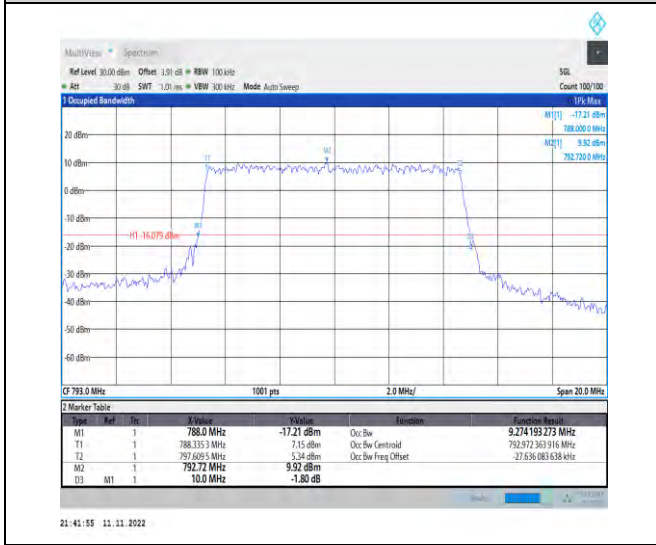




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0-Ant1-8.943-9.580-≤10-PASS



1-N14-PC3-15-10-H-5-DFT-256QAM-Outer\_Full-50  
@0-Ant1-8.931-9.520-≤10-PASS



1-N14-PC3-15-10-H-6-CP-QPSK-Outer\_Full-52@0-  
Ant1-9.274-10.000-≤10-PASS

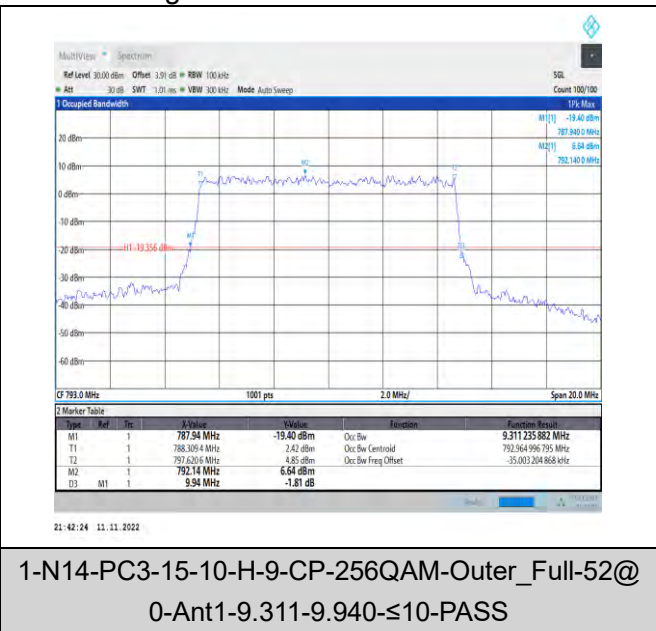
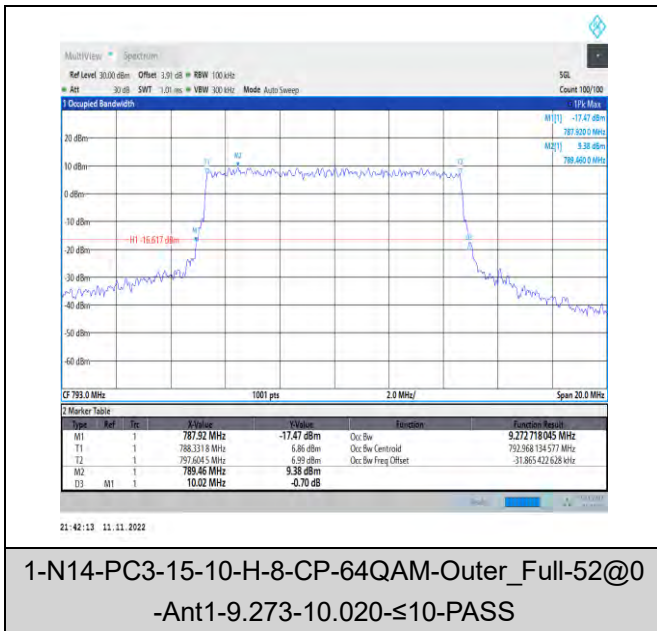


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-Ant1-9.272-10.020-≤10-PASS



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1-N14-PC3-15-10-H-8-CP-64QAM-Outer\_Full-52@0  
 -Ant1-9.273-10.020-≤10-PASS

1-N14-PC3-15-10-H-9-CP-256QAM-Outer\_Full-52@0  
 -Ant1-9.311-9.940-≤10-PASS



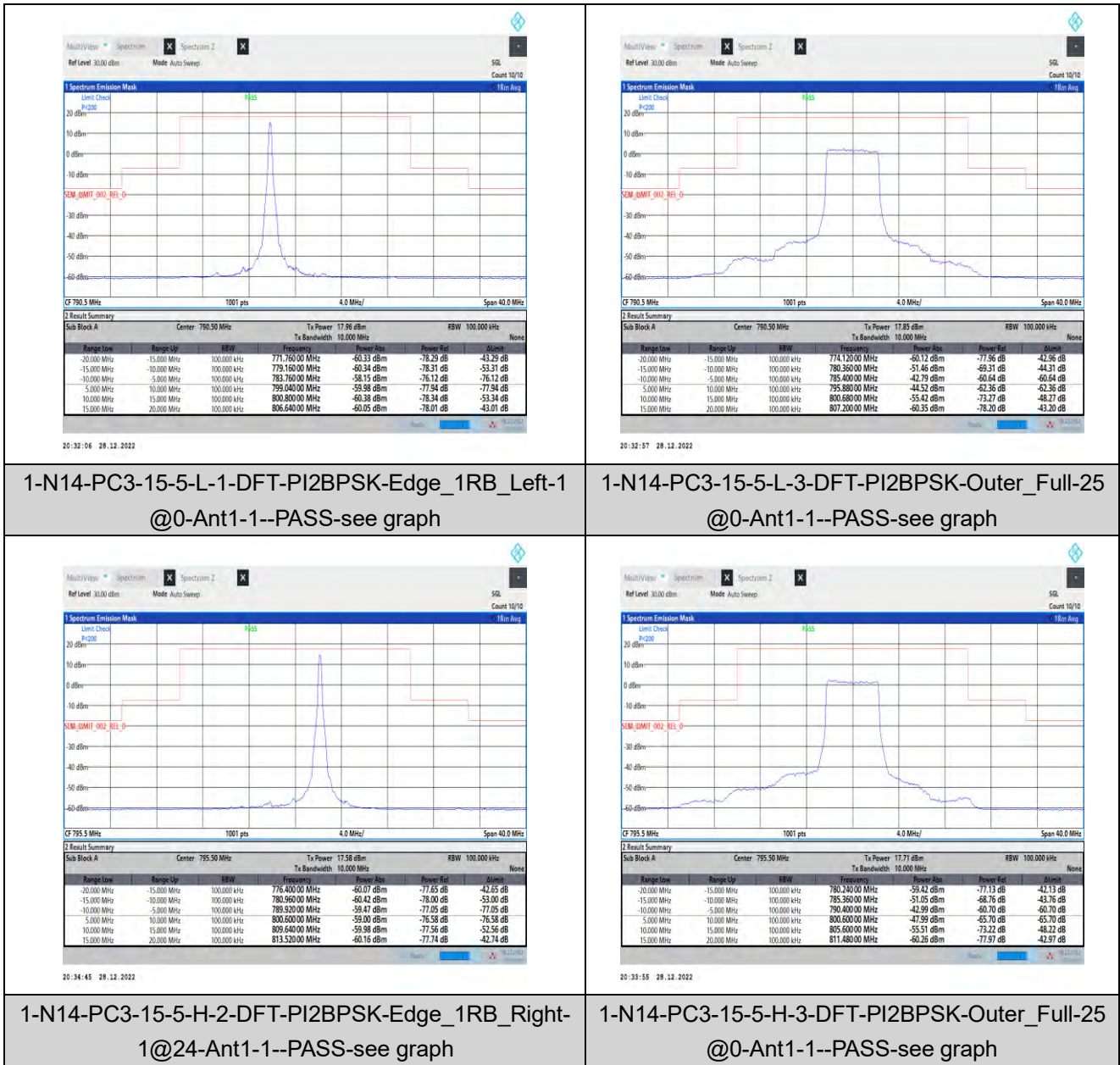
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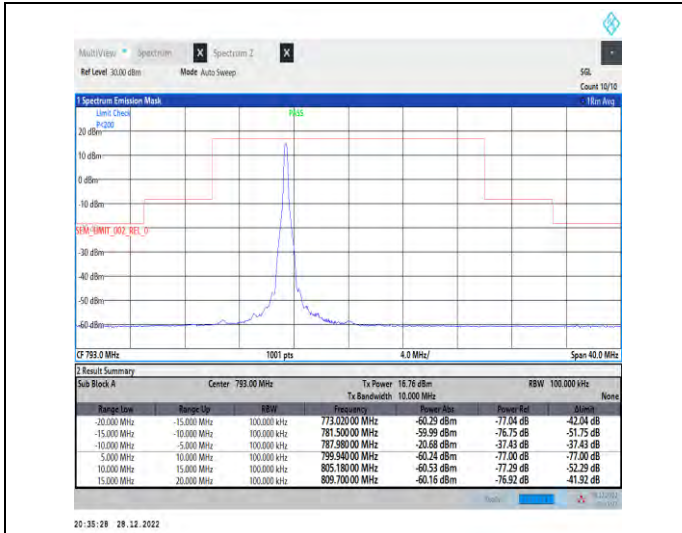
### Emission mask

### Test Graphs



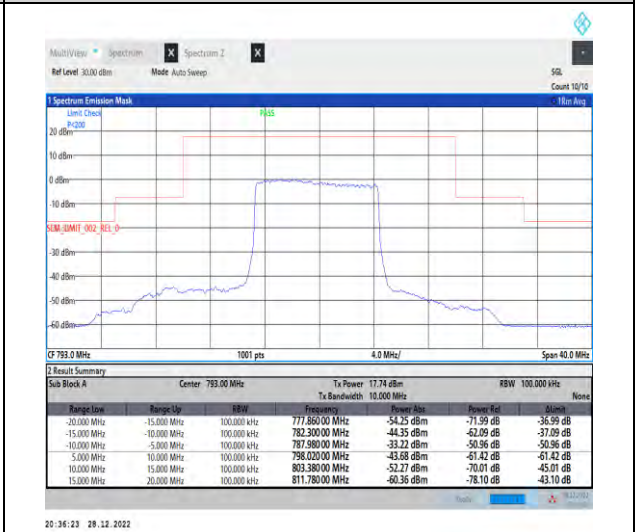
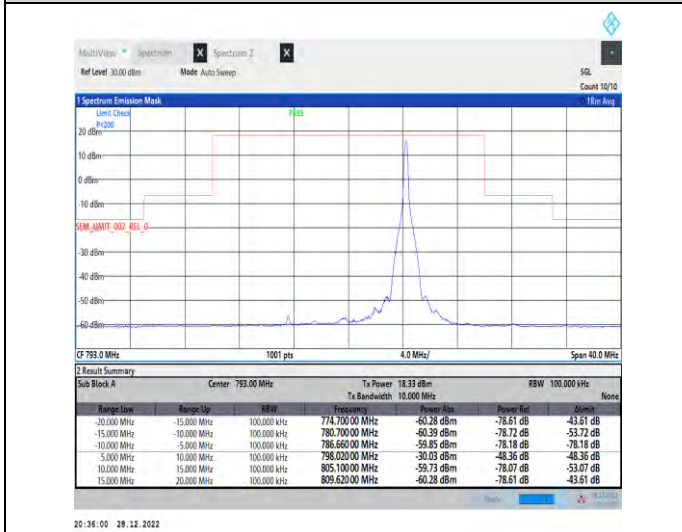
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1-N14-PC3-15-10-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph

1-N14-PC3-15-10-L-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1--PASS-see graph



1-N14-PC3-15-10-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@51-Ant1-1--PASS-see graph

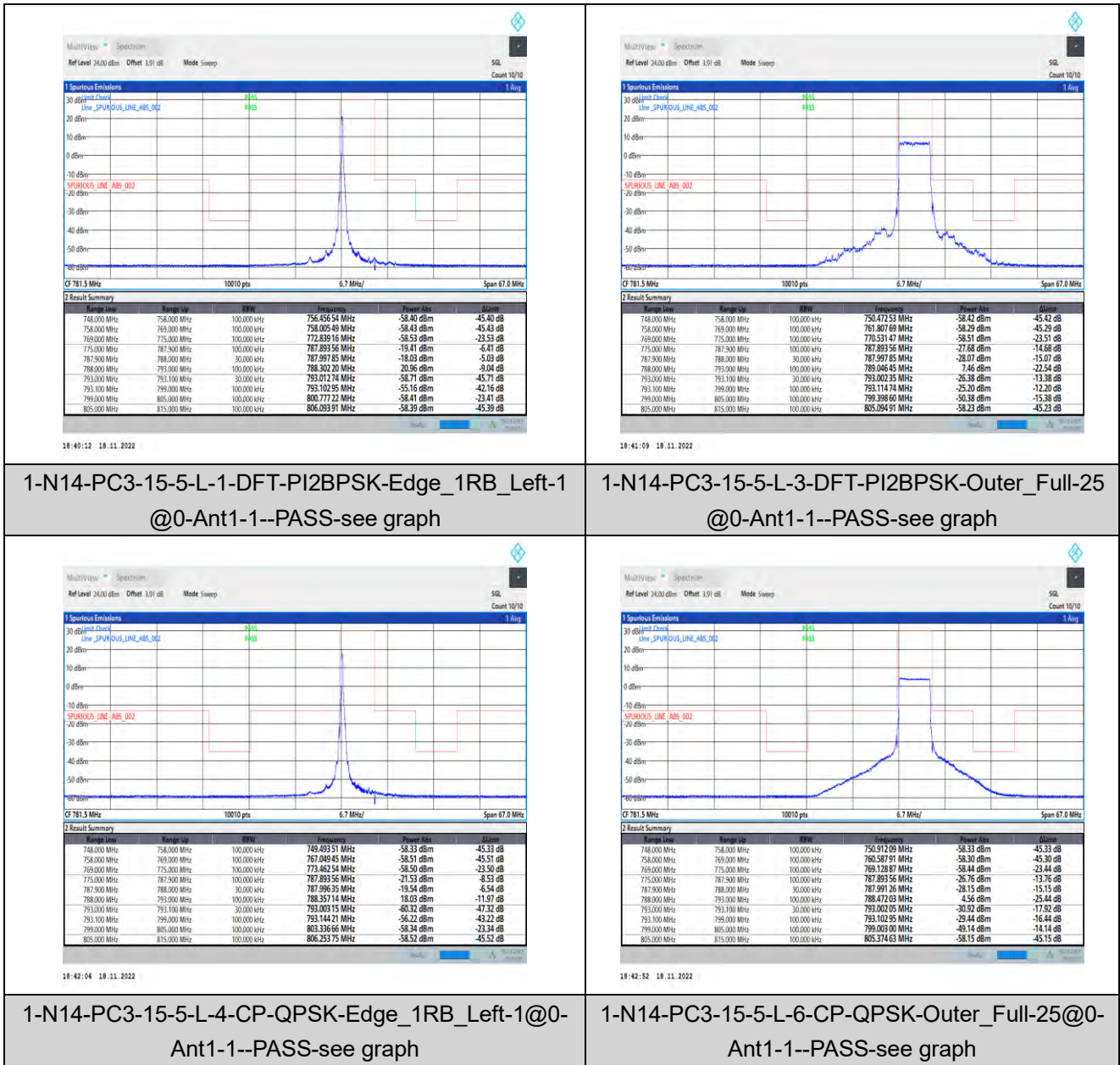
1-N14-PC3-15-10-H-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1--PASS-see graph



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## Band Edge for SA Test Graphs



1-N14-PC3-15-5-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1  
 @0-Ant1-1--PASS-see graph

1-N14-PC3-15-5-L-3-DFT-PI2BPSK-Outer\_Full-25  
 @0-Ant1-1--PASS-see graph

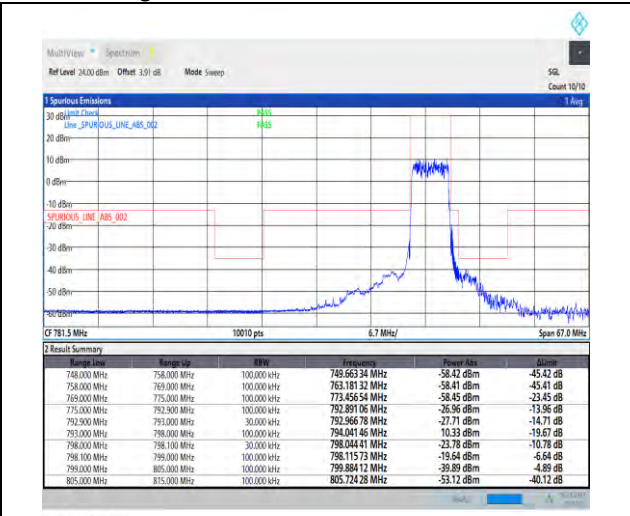
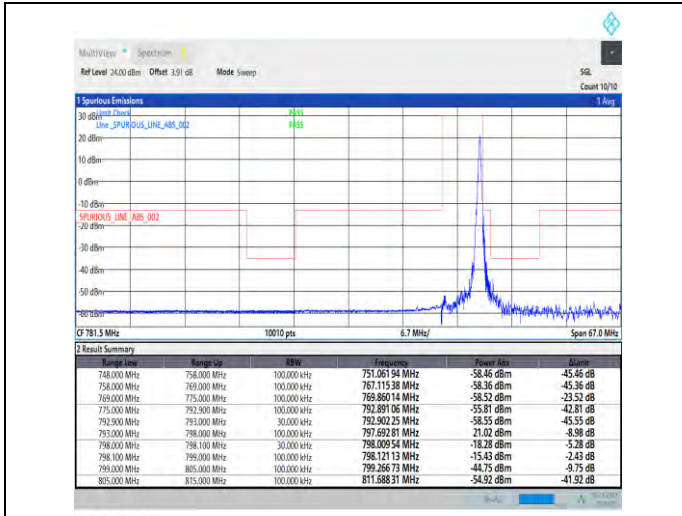
1-N14-PC3-15-5-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-  
 Ant1-1--PASS-see graph

1-N14-PC3-15-5-L-6-CP-QPSK-Outer\_Full-25@0-  
 Ant1-1--PASS-see graph



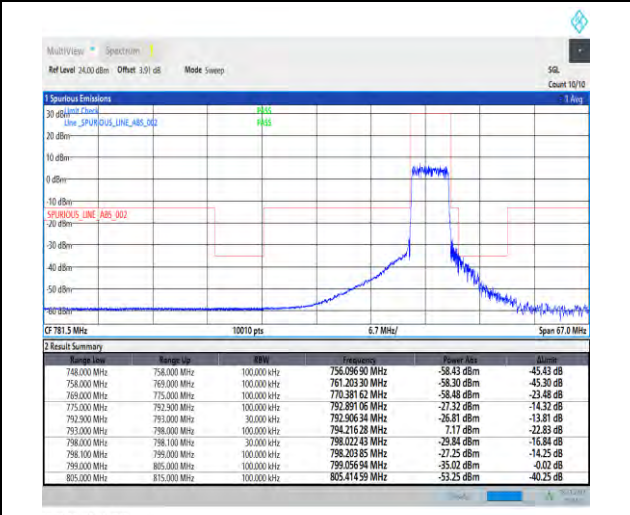
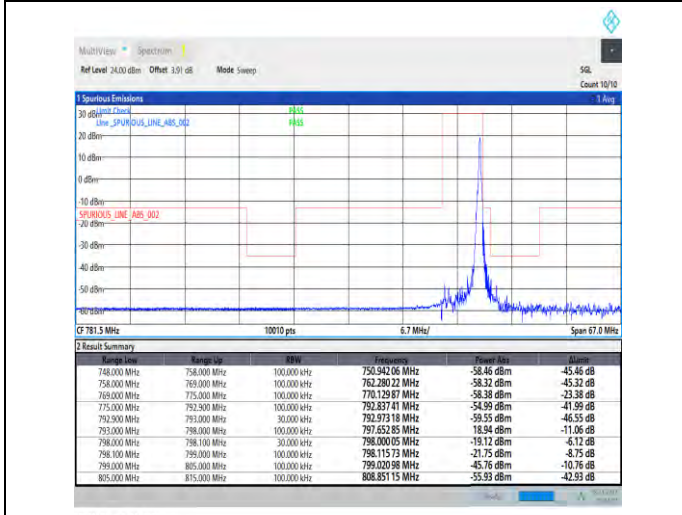
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1-N14-PC3-15-5-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@24-Ant1-1--PASS-see graph

1-N14-PC3-15-5-H-3-DFT-PI2BPSK-Outer\_Full-25@0-Ant1-1--PASS-see graph



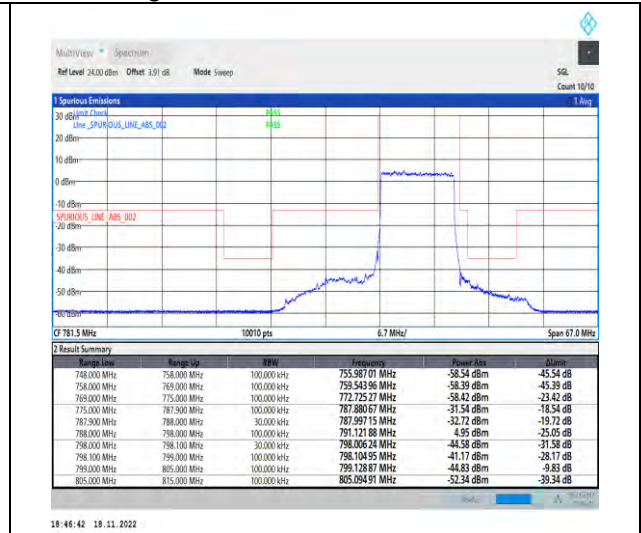
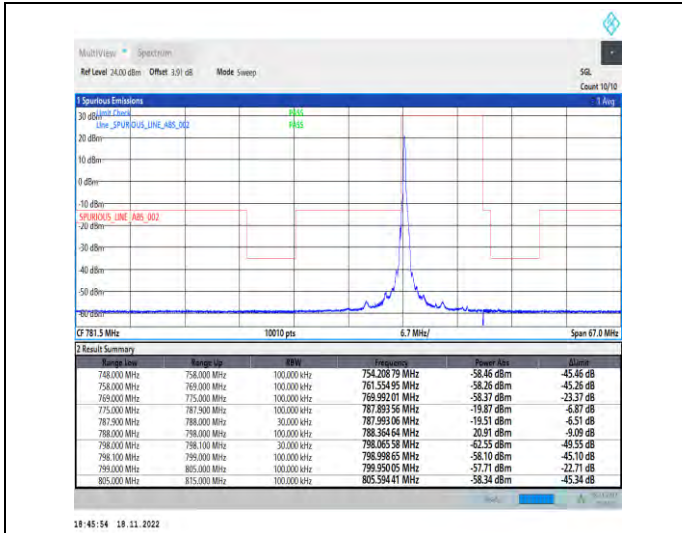
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1-N14-PC3-15-5-H-6-CP-QPSK-Outer\_Full-25@0-Ant1-1--PASS-see graph



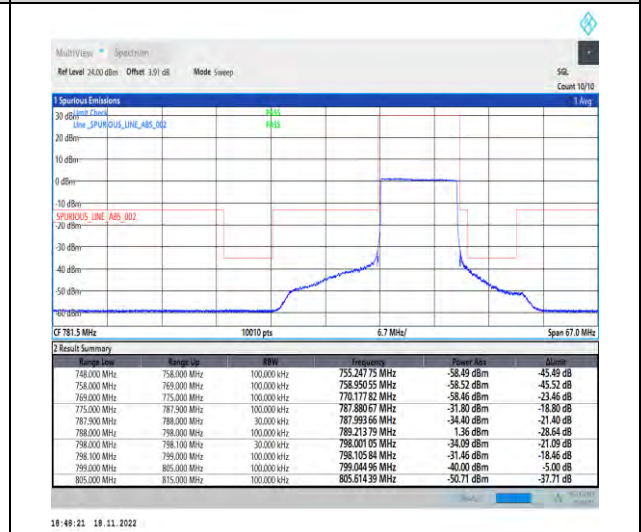
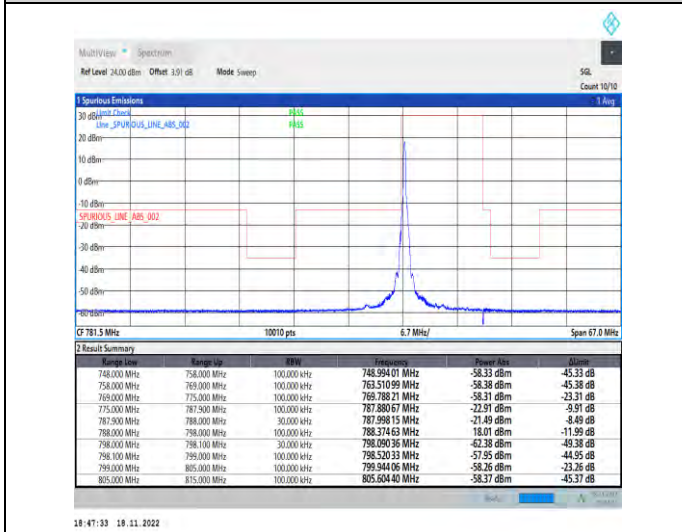
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1-N14-PC3-15-10-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph

1-N14-PC3-15-10-L-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1--PASS-see graph



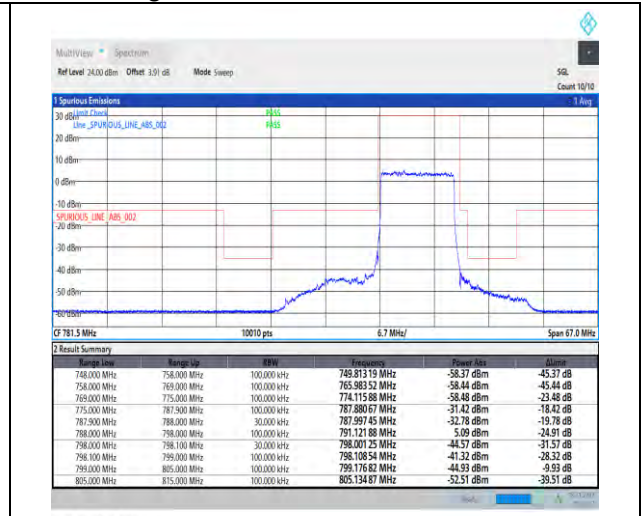
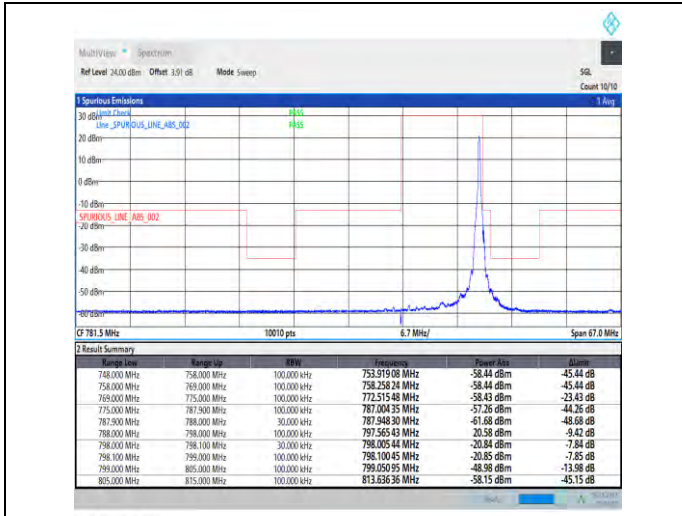
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1-N14-PC3-15-10-L-6-CP-QPSK-Outer\_Full-52@0-Ant1-1--PASS-see graph



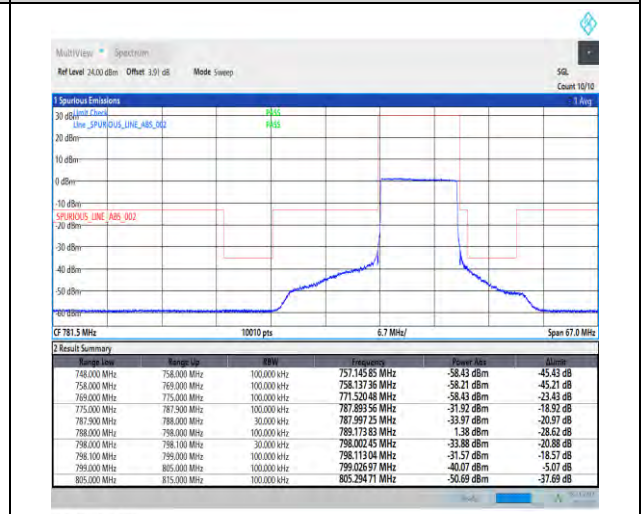
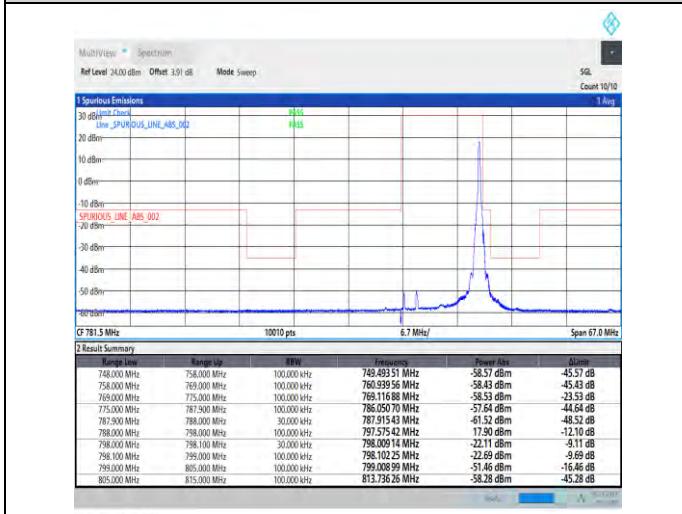
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1-N14-PC3-15-10-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-t-1@51-Ant1-1--PASS-see graph

1-N14-PC3-15-10-H-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1--PASS-see graph



1-N14-PC3-15-10-H-5-CP-QPSK-Edge\_1RB\_Right-1@51-Ant1-1--PASS-see graph

1-N14-PC3-15-10-H-6-CP-QPSK-Outer\_Full-52@0-Ant1-1--PASS-see graph



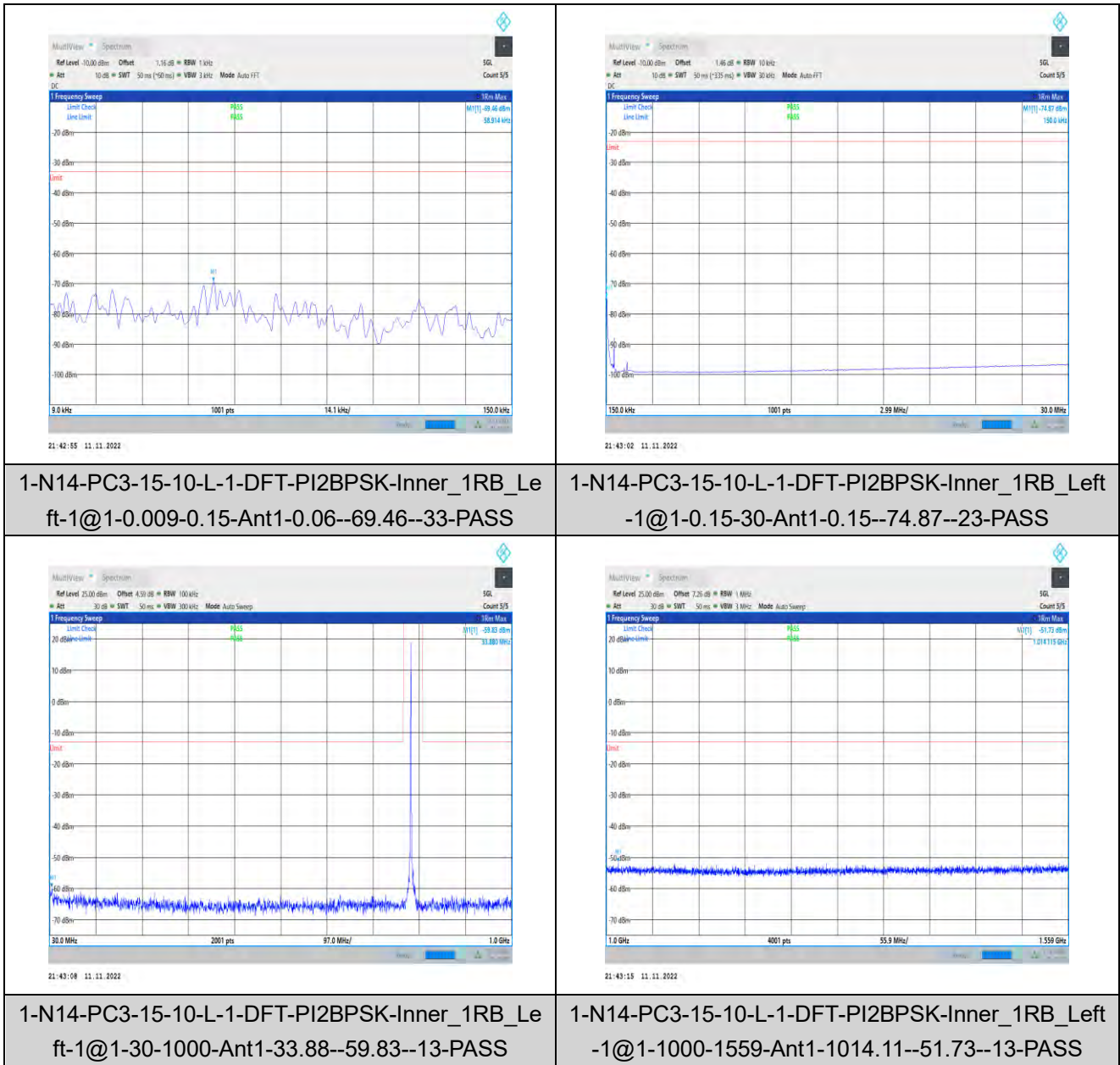
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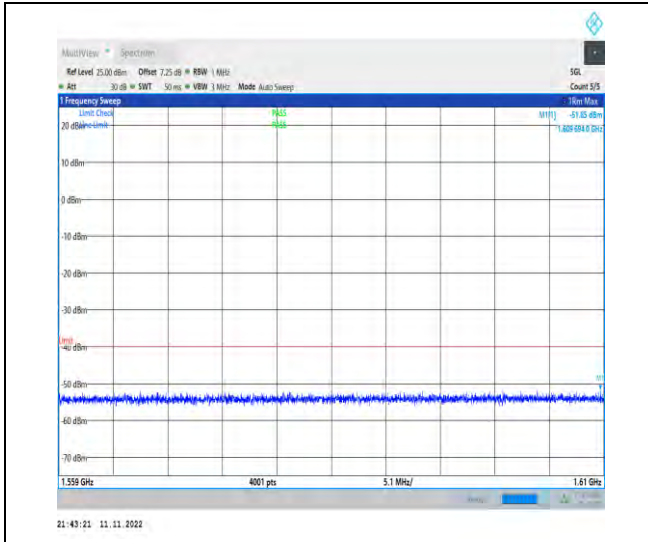
## Conducted Spurious Emission for SA

### Test Graphs

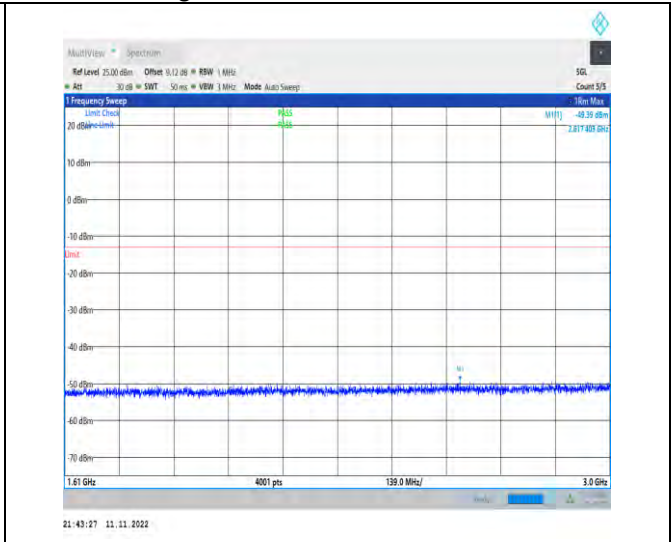


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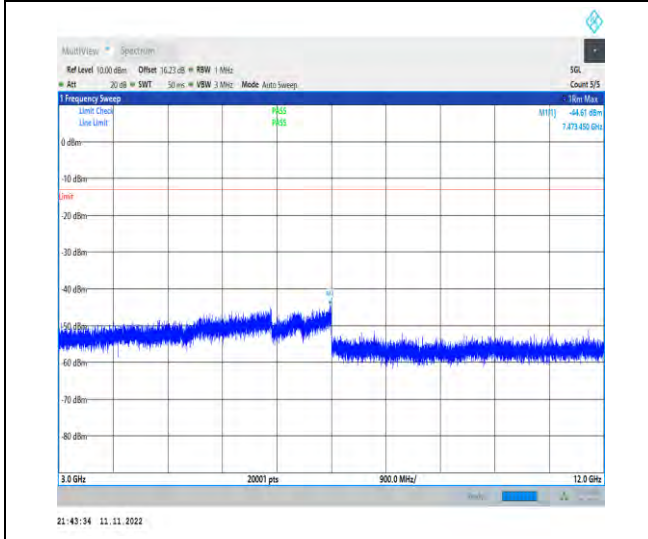
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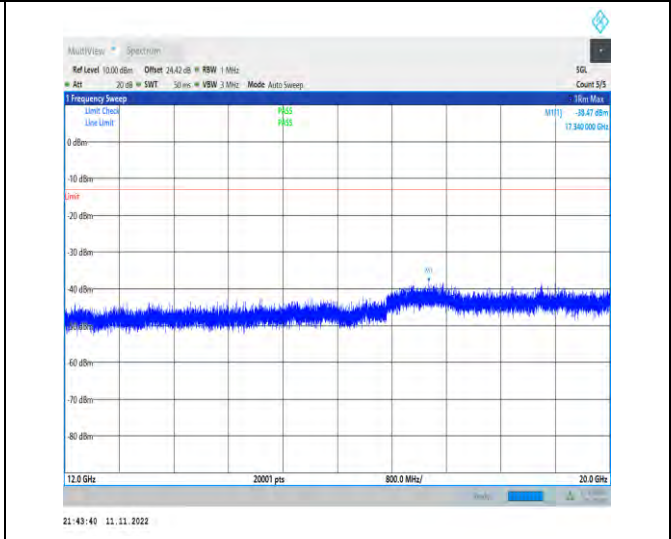
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1-N14-PC3-15-10-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1610-3000-Ant1-2617.40--49.39--13-PASS



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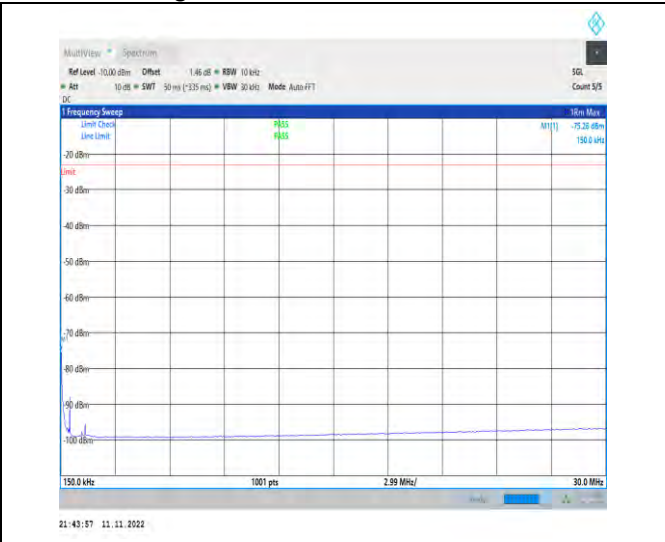
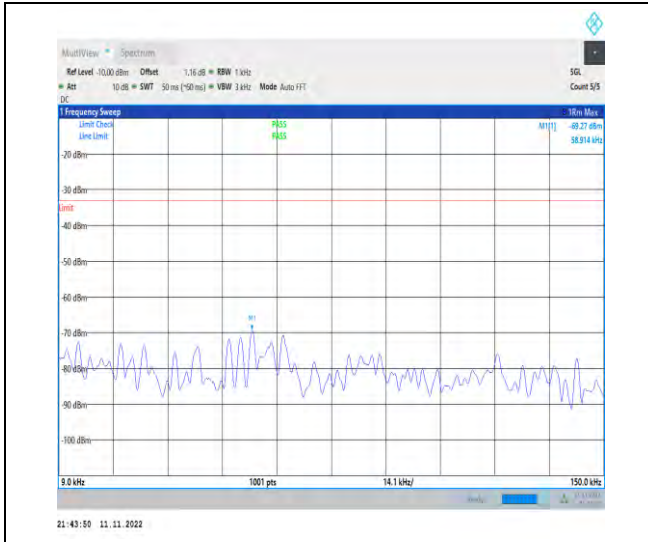


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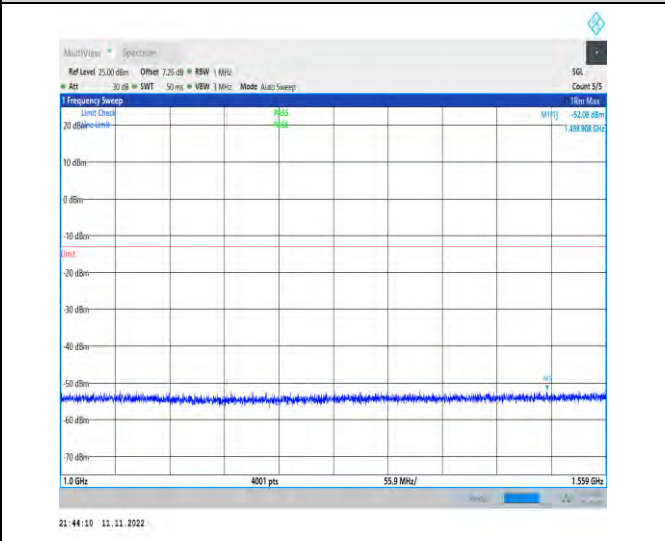
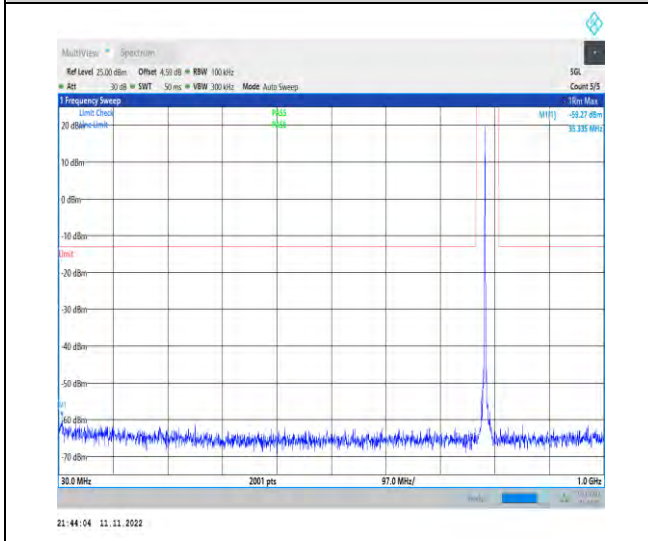
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1-N14-PC3-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_L eft-1@1-0.009-0.15-Ant1-0.06--69.27--33-PASS

1-N14-PC3-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_Lef t-1@1-0.15-30-Ant1-0.15--75.26--23-PASS



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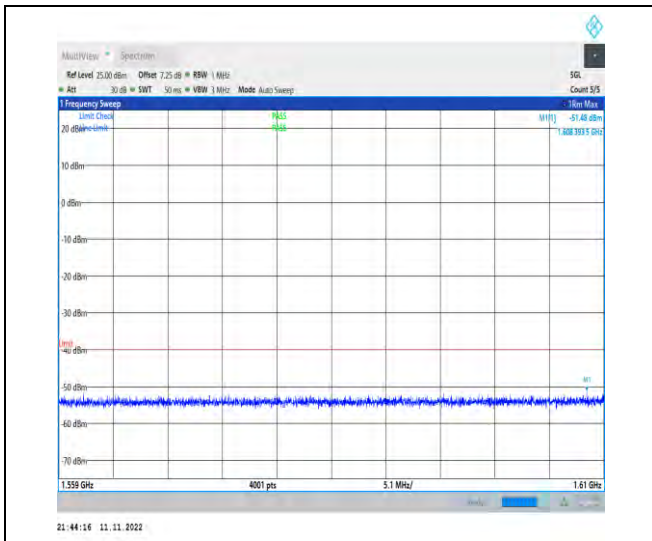
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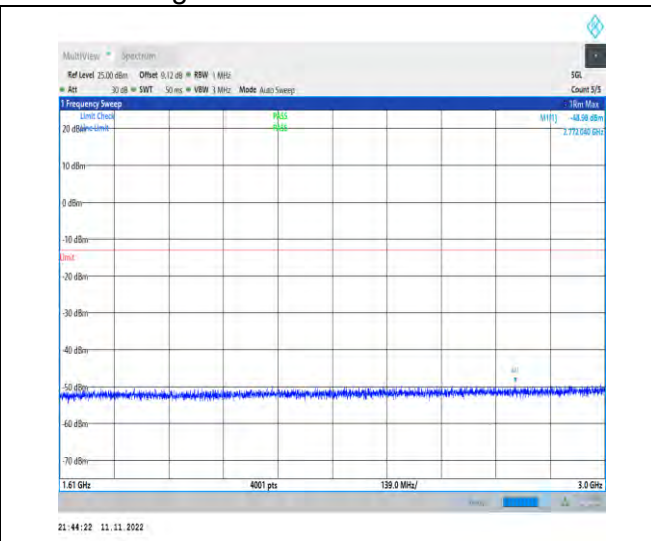
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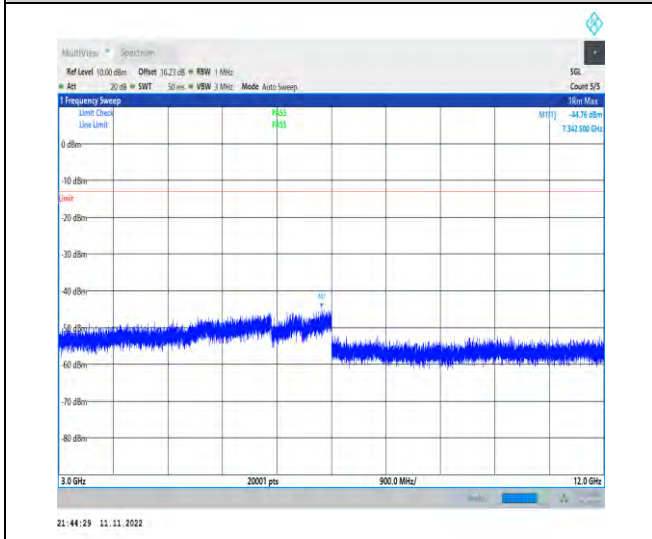
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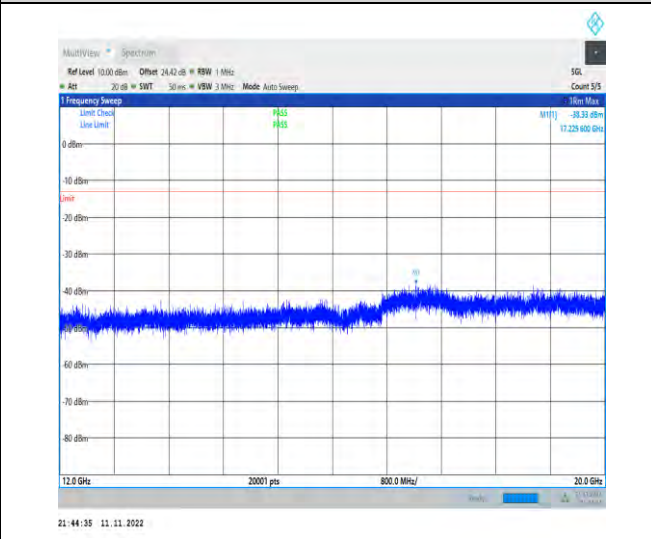
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1-N14-PC3-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_L ef t-1@1-1610-3000-Ant1-2772.04--48.98--13-PASS



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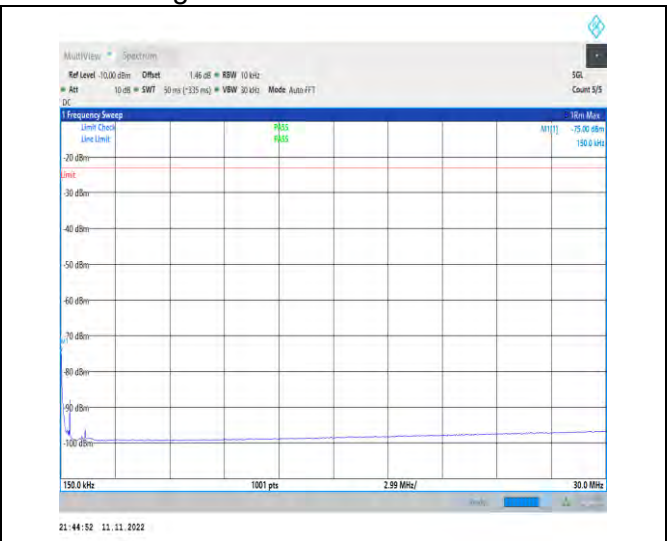
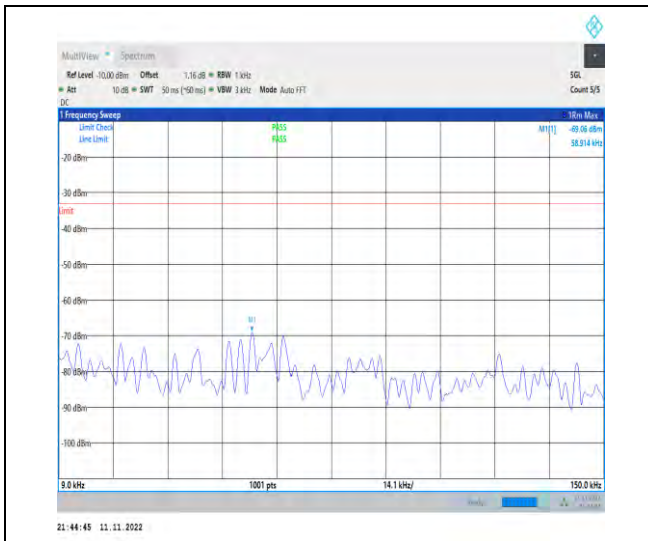


1-N14-PC3-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_L ef t-1@1-12000-20000-Ant1-17225.60--38.33--13-PASS



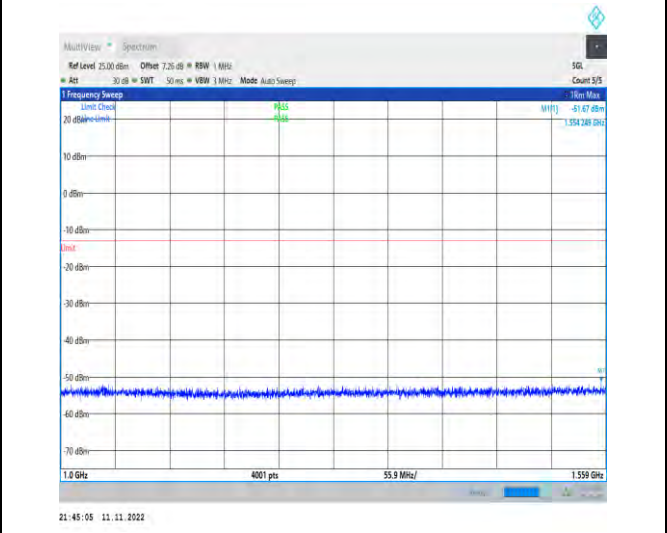
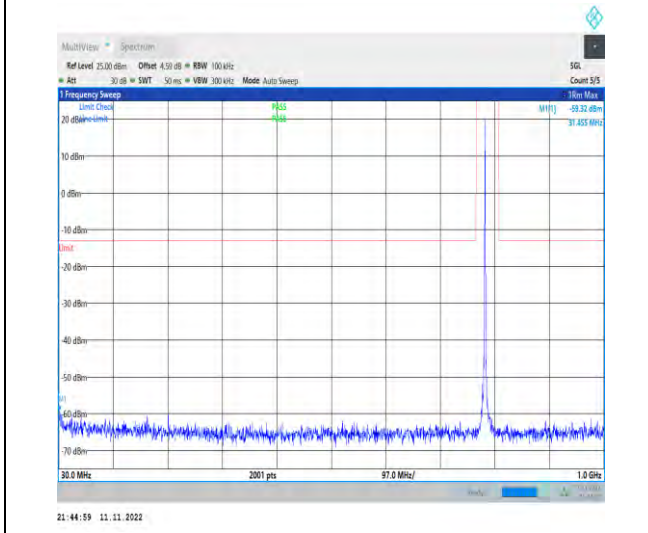
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1-N14-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_L eft-1@1-0.009-0.15-Ant1-0.06--69.06--33-PASS

1-N14-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Lef t-1@1-0.15-30-Ant1-0.15--75.00--23-PASS



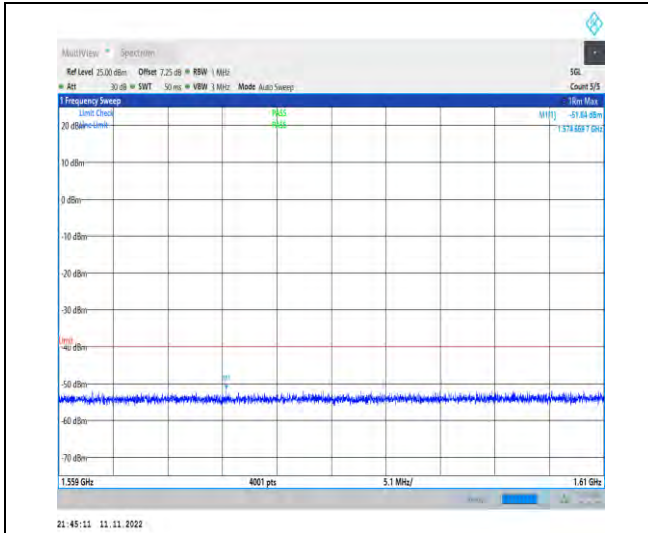
1-N14-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_L eft-1@1-30-1000-Ant1-31.46--59.32--13-PASS

1-N14-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Lef t-1@1-1000-1559-Ant1-1554.25--51.67--13-PASS

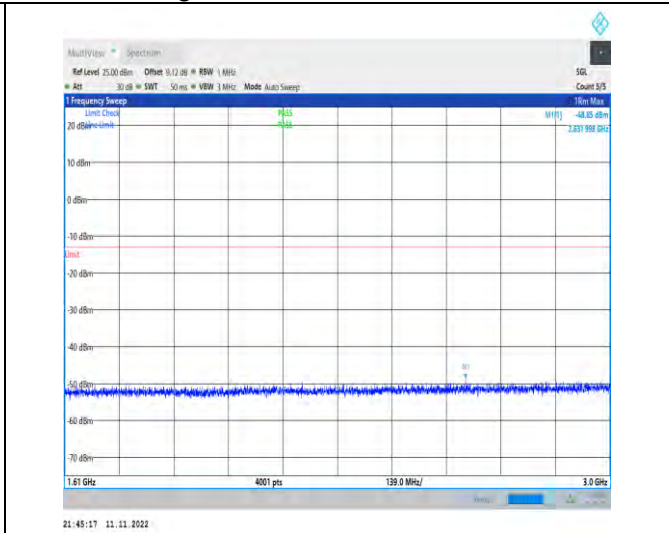


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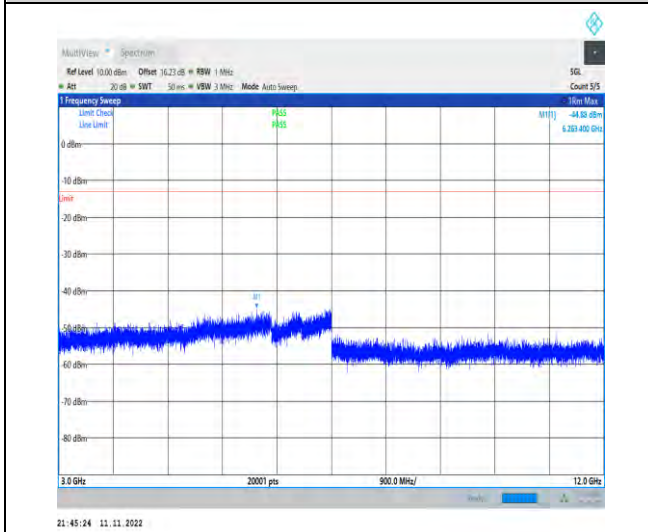
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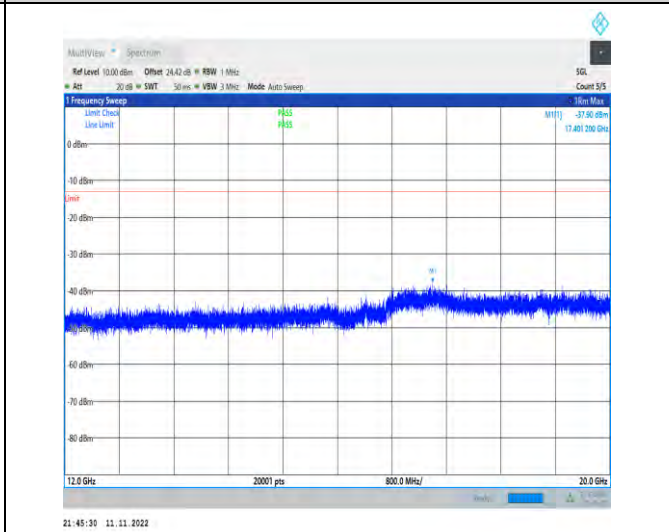
1-N14-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_L eft-1@1-1559-1610-Ant1-1574.67--51.84--40-PASS



1-N14-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_L ef t-1@1-1610-3000-Ant1-2632.00--48.85--13-PASS



1-N14-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_L eft-1@1-3000-12000-Ant1-6263.40--44.88--13-PAS S



1-N14-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_L ef t-1@1-12000-20000-Ant1-17401.20--37.90--13-PASS



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## Field Strength of Spurious Radiation

Test Band = SA Band 14 BW 10M\_ 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	1576.68	65.86	-48.51	25.58	-52.34	-40.00	12.34	196	15	Horizontal
2	2365.02	51.70	-47.60	27.63	-63.53	-13.00	50.53	265	43	Horizontal
3	3153.36	51.40	-46.39	29.54	-60.72	-13.00	47.72	284	0	Horizontal
4	3941.7	49.55	-45.52	30.46	-60.77	-13.00	47.77	142	0	Horizontal
5	4730.04	45.02	-44.57	31.95	-62.86	-13.00	49.86	263	326	Horizontal
6	5518.38	40.71	-43.76	32.66	-65.65	-13.00	52.65	226	26	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	1576.68	64.20	-48.51	25.58	-54.00	-40.00	14.00	296	342	Vertical
2	2365.02	56.03	-47.60	27.63	-59.20	-13.00	46.20	265	110	Vertical
3	3153.36	55.62	-46.39	29.54	-56.50	-13.00	43.50	241	357	Vertical
4	3941.7	51.54	-45.52	30.46	-58.78	-13.00	45.78	142	80	Vertical
5	4730.04	53.72	-44.57	31.95	-54.16	-13.00	41.16	255	124	Vertical
6	5518.38	41.78	-43.76	32.66	-64.58	-13.00	51.58	263	110	Vertical



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Test Band = SA Band 14 BW 5M\_ 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	1576.8889	64.69	-48.51	25.58	-53.51	-40.00	13.51	296	17	Horizontal
2	2380.8889	54.67	-47.60	27.66	-60.53	-13.00	47.53	265	329	Horizontal
3	3153.3333	48.99	-46.40	29.54	-63.13	-13.00	50.13	284	125	Horizontal
4	3954.2	42.14	-45.51	30.49	-68.14	-13.00	55.14	142	0	Horizontal
5	4745.04	39.79	-44.58	31.99	-68.06	-13.00	55.06	255	8	Horizontal
6	5535.88	40.39	-43.74	32.72	-65.90	-13.00	52.90	263	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	1576.4444	61.69	-48.51	25.58	-56.51	-40.00	16.51	196	322	Vertical
2	3153.3333	54.79	-46.40	29.54	-57.33	-13.00	44.33	265	355	Vertical
3	3941.7778	49.00	-45.52	30.46	-61.32	-13.00	48.32	241	229	Vertical
4	4730.2222	51.58	-44.57	31.95	-56.30	-13.00	43.30	142	153	Vertical
5	2372.52	43.16	-47.60	27.65	-72.06	-13.00	59.06	254	75	Vertical
6	5535.88	40.55	-43.74	32.72	-65.74	-13.00	52.74	263	339	Vertical



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Test Band = SA Band 14 BW 5M\_ 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	1581.68	64.65	-48.51	25.58	-53.54	-40.00	13.54	296	202	Horizontal
2	2372.52	45.26	-47.60	27.65	-69.96	-13.00	56.96	365	294	Horizontal
3	3163.36	49.62	-46.37	29.53	-62.47	-13.00	49.47	285	341	Horizontal
4	3954.2	50.83	-45.51	30.49	-59.45	-13.00	46.45	100	359	Horizontal
5	4745.04	40.86	-44.58	31.99	-66.99	-13.00	53.99	114	360	Horizontal
6	5535.88	40.08	-43.74	32.72	-66.21	-13.00	53.21	226	62	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	1581.68	65.24	-48.51	25.58	-52.95	-40.00	12.95	196	316	Vertical
2	2372.52	49.39	-47.60	27.65	-65.83	-13.00	52.83	263	77	Vertical
3	3163.36	55.96	-46.37	29.53	-56.13	-13.00	43.13	285	188	Vertical
4	3954.2	56.19	-45.51	30.49	-54.09	-13.00	41.09	255	77	Vertical
5	4745.04	49.45	-44.58	31.99	-58.40	-13.00	45.40	123	94	Vertical
6	5535.88	41.79	-43.74	32.72	-64.50	-13.00	51.50	265	270	Vertical



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**Test Band = SA Band 14 BW 5M\_ 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	1586.68	60.03	-48.52	25.59	-58.16	-40.00	18.16	296	187	Horizontal
2	2380.02	53.55	-47.60	27.66	-61.65	-13.00	48.65	265	343	Horizontal
3	3173.36	48.39	-46.34	29.53	-63.68	-13.00	50.68	255	343	Horizontal
4	3966.7	51.01	-45.51	30.52	-59.24	-13.00	46.24	241	360	Horizontal
5	4760.04	42.37	-44.59	32.03	-65.45	-13.00	52.45	102	329	Horizontal
6	5553.38	40.11	-43.73	32.77	-66.10	-13.00	53.10	263	187	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	1586.6667	63.96	-48.52	25.59	-54.23	-40.00	14.23	296	111	Vertical
2	2380	55.74	-47.60	27.66	-59.46	-13.00	46.46	265	96	Vertical
3	3173.3333	58.03	-46.34	29.53	-54.04	-13.00	41.04	284	203	Vertical
4	3966.6667	58.79	-45.51	30.52	-51.46	-13.00	38.46	144	63	Vertical
5	4760	51.42	-44.59	32.02	-56.40	-13.00	43.40	145	96	Vertical
6	5553.38	40.97	-43.73	32.77	-65.24	-13.00	52.24	266	234	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability for SA

### Test Result

### Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N14	15	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	2.500000	0.003153	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	2.500000	0.003153	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	2.600000	0.003279	PASS
N14	15	10	CP-QPSK	M	Outer_Full	VH	NT	5.200000	0.006557	PASS
N14	15	10	CP-QPSK	M	Outer_Full	VN	NT	3.000000	0.003783	PASS
N14	15	10	CP-QPSK	M	Outer_Full	VL	NT	10.400000	0.013115	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	1.600000	0.002018	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	3.600000	0.004540	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	3.400000	0.004288	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	0	1.800000	0.002270	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	10	3.500000	0.004414	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	20	2.200000	0.002774	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	30	4.400000	0.005549	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	40	4.200000	0.005296	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	50	5.300000	0.006683	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	-30	2.900000	0.003657	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	-20	5.100000	0.006431	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	-10	5.800000	0.007314	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	0	6.900000	0.008701	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	10	4.500000	0.005675	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	20	2.900000	0.003657	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	30	5.000000	0.006305	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	40	5.100000	0.006431	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	50	4.000000	0.005044	PASS

---End of Attachment---



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