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Appendix B.32

NR Band n13



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

						Power	ERP	LIMIT	Verdic
Band	SCS	Bandwidth	Modulation	Channel	Channel RB Config		(dBm)	(dBm)	t
N13	15	5	DFT- PI2BPSK	L	Inner_1RB_Left	(dBm) 23.34	22.73	34.77	PASS
N13	15	5	DFT- PI2BPSK	L	Inner_1RB_Right	23.4	22.79	34.77	PASS
N13	15	5	DFT- PI2BPSK	L	Outer_Full	23.35	22.74	34.77	PASS
N13	15	5	DFT-QPSK	L	Inner_1RB_Left	23.33	22.72	34.77	PASS
N13	15	5	DFT-QPSK	L	Inner_1RB_Right	23.38	22.77	34.77	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	23.36	22.75	34.77	PASS
N13	15	5	DFT-16QAM	L	Inner_1RB_Left	23.33	22.72	34.77	PASS
N13	15	5	DFT-16QAM	L	Inner_1RB_Right	23.34	22.73	34.77	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	22.42	21.81	34.77	PASS
N13	15	5	DFT-64QAM	L	Inner_1RB_Left	21.85	21.24	34.77	PASS
N13	15	5	DFT-64QAM	L	L Inner_1RB_Right		21.32	34.77	PASS
N13	15	5	DFT-64QAM	L	Outer_Full	21.88	21.27	34.77	PASS
N13	15	5	DFT-256QAM	L	Inner_1RB_Left	20	19.39	34.77	PASS
N13	15	5	DFT-256QAM	L	Inner_1RB_Right	19.83	19.22	34.77	PASS
N13	15	5	DFT-256QAM	L	Outer_Full	19.85	19.24	34.77	PASS
N13	15	5	DFT- PI2BPSK	M	Inner_1RB_Left	23.4	22.79	34.77	PASS
N13	15	5	DFT- PI2BPSK	М	Inner_1RB_Right	23.22	22.61	34.77	PASS
N13	15	5	DFT- PI2BPSK	М	Outer_Full	23.39	22.78	34.77	PASS
N13	15	5	DFT-QPSK	М	Inner_1RB_Left	23.35	22.74	34.77	PASS
N13	15	5	DFT-QPSK	М	Inner_1RB_Right	23.14	22.53	34.77	PASS
N13	15	5	DFT-QPSK	М	Outer_Full	23.37	22.76	34.77	PASS
N13	15	5	DFT-16QAM	М	Inner_1RB_Left	23.47	22.86	34.77	PASS
N13	15	5	DFT-16QAM	М	Inner_1RB_Right	23.28	22.67	34.77	PASS
N13	15	5	DFT-16QAM	М	Outer_Full	22.38	21.77	34.77	PASS
N13	15	5	DFT-64QAM	М	Inner_1RB_Left	22.02	21.41	34.77	PASS
N13	15	5	DFT-64QAM	М	Inner_1RB_Right	21.77	21.16	34.77	PASS



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			<u> </u>		Page:		01 35		
N13	15	5	DFT-64QAM	М	Outer_Full	21.84	21.23	34.77	PASS
N13	15	5	DFT-256QAM	М	Inner_1RB_Left	19.82	19.21	34.77	PASS
N13	15	5	DFT-256QAM	M	Inner_1RB_Right	19.73	19.12	34.77	PASS
N13	15	5	DFT-256QAM	M	Outer_Full	19.83	19.22	34.77	PASS
N13	15	5	DFT- PI2BPSK	Н	Inner_1RB_Left	23.33	22.72	34.77	PASS
N13	15	5	DFT- PI2BPSK	Н	Inner_1RB_Right	23.18	22.57	34.77	PASS
N13	15	5	DFT- PI2BPSK	Н	Outer_Full	23.19	22.58	34.77	PASS
N13	15	5	DFT-QPSK	Н	Inner_1RB_Left	23.26	22.65	34.77	PASS
N13	15	5	DFT-QPSK	Н	Inner_1RB_Right	23.12	22.51	34.77	PASS
N13	15	5	DFT-QPSK	Н	Outer_Full	23.19	22.58	34.77	PASS
N13	15	5	DFT-16QAM	Н	Inner_1RB_Left	23.68	23.07	34.77	PASS
N13	15	5	DFT-16QAM	Н	Inner_1RB_Right	23.5	22.89	34.77	PASS
N13	15	5	DFT-16QAM	Н	Outer_Full	22.18	21.57	34.77	PASS
N13	15	5	DFT-64QAM	Н	Inner_1RB_Left	21.62	21.01	34.77	PASS
N13	15	5	DFT-64QAM	Н	Inner_1RB_Right	21.44	20.83	34.77	PASS
N13	15	5	DFT-64QAM	Н	Outer_Full	21.79	21.18	34.77	PASS
N13	15	5	DFT-256QAM	Н	Inner_1RB_Left	19.5	18.89	34.77	PASS
N13	15	5	DFT-256QAM	Н	Inner_1RB_Right	19.33	18.72	34.77	PASS
N13	15	5	DFT-256QAM	Н	Outer_Full	19.51	18.9	34.77	PASS
N13	15	10	DFT- PI2BPSK	M	Inner_1RB_Left	23.29	22.68	34.77	PASS
N13	15	10	DFT- PI2BPSK	M	Inner_1RB_Right	23.14	22.53	34.77	PASS
N13	15	10	DFT- PI2BPSK	M	Outer_Full	23.38	22.77	34.77	PASS
N13	15	10	DFT-QPSK	М	Inner_1RB_Left	23.27	22.66	34.77	PASS
N13	15	10	DFT-QPSK	М	Inner_1RB_Right	23.16	22.55	34.77	PASS
N13	15	10	DFT-QPSK	М	Outer_Full	23.34	22.73	34.77	PASS
N13	15	10	DFT-16QAM	М	Inner_1RB_Left	23.67	23.06	34.77	PASS
N13	15	10	DFT-16QAM	М	Inner_1RB_Right	23.56	22.95	34.77	PASS
N13	15	10	DFT-16QAM	М	Outer_Full	22.16	21.55	34.77	PASS
N13	15	10	DFT-64QAM	М	Inner_1RB_Left	21.63	21.02	34.77	PASS
N13	15	10	DFT-64QAM	М	Inner_1RB_Right	21.49	20.88	34.77	PASS
N13	15	10	DFT-64QAM	М	Outer_Full	21.9	21.29	34.77	PASS
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N13	15	10	DFT-256QAM	М	Inner_1RB_Right	19.39	18.78	34.77	PASS
N13	15	10	DFT-256QAM	М	Outer_Full	19.7	19.09	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	Verdic t
N13	15	10	DFT- 256QAM	М	Outer_Full	100%	0.00	8.42	≤13	PASS
N13	15	10	CP-256QAM	М	Outer_Full	100%	0.00	9.35	≤13	PASS



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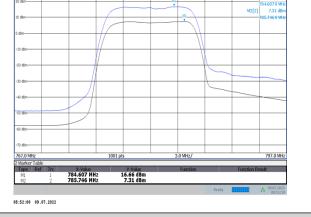


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Test Graphs





1-N13--15-10-M-1-DFT-256QAM-Outer_Full-50@0-Ant1-8.42-100%-0.00-8.42-PASS-≤13 1-N13--15-10-M-2-CP-256QAM-Outer_Full-52@0-Ant1-9.35-100%-0.00-9.35-PASS-≤13



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Modulation characteristics for SA

Test Result

Band	scs	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N13	15	10	DFT-PI2BPSK	М	Outer_Full	see graph	PASS
N13	15	10	DFT-QPSK	М	Outer_Full	see graph	PASS
N13	15	10	DFT-16QAM	М	Outer_Full	see graph	PASS
N13	15	10	DFT-64QAM	М	Outer_Full	see graph	PASS
N13	15	10	DFT-256QAM	М	Outer_Full	see graph	PASS
N13	15	10	CP-QPSK	М	Outer_Full	see graph	PASS
N13	15	10	CP-16QAM	М	Outer_Full	see graph	PASS
N13	15	10	CP-64QAM	М	Outer_Full	see graph	PASS
N13	15	10	CP-256QAM	М	Outer_Full	see graph	PASS



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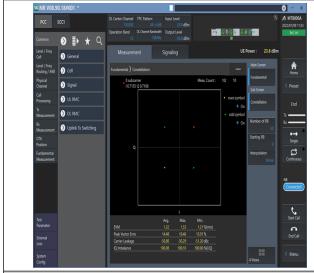
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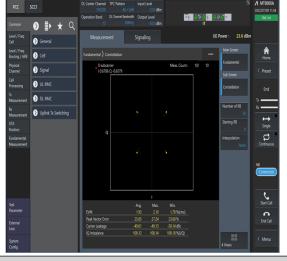
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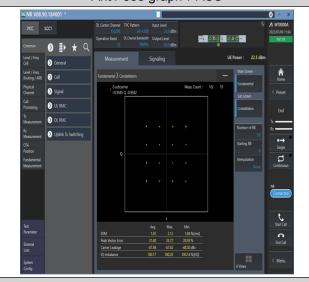
Test Graphs



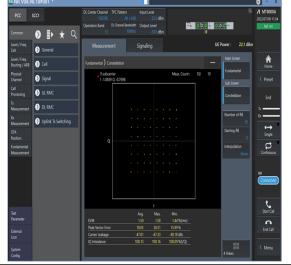
1-N13--15-10-M-1-DFT-PI2BPSK-Outer_Full-50@0-Ant1-see graph-PASS



1-N13--15-10-M-2-DFT-QPSK-Outer_Full-50@0-Ant1-see graph-PASS



1-N13--15-10-M-3-DFT-16QAM-Outer_Full-50@0-Ant1-see graph-PASS



1-N13--15-10-M-4-DFT-64QAM-Outer_Full-50@0-Ant1-see graph-PASS



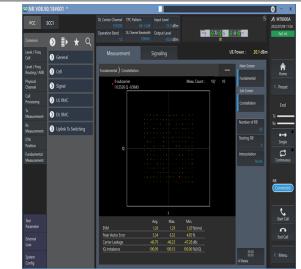
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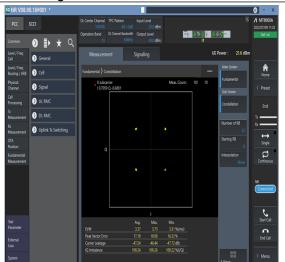


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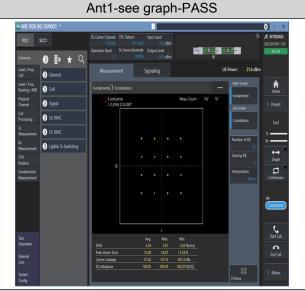
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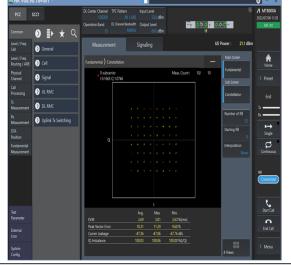
1-N13--15-10-M-5-DFT-256QAM-Outer_Full-50@0-



1-N13--15-10-M-6-CP-QPSK-Outer_Full-52@0-Ant1-see graph-PASS



1-N13--15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant1-see graph-PASS



1-N13--15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant1-see graph-PASS

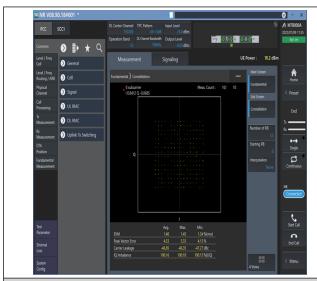


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1-N13--15-10-M-9-CP-256QAM-Outer_Full-52@0-Ant1-see graph-PASS



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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N13	15	5	DFT-QPSK	L	Outer_Full	4.467	5.020	PASS
N13	15	5	DFT-PI2BPSK	L	Outer_Full	4.453	4.980	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	4.459	4.960	PASS
N13	15	5	DFT-64QAM	L	Outer_Full	4.458	5.010	PASS
N13	15	5	DFT-256QAM	L	Outer_Full	4.464	4.890	PASS
N13	15	5	CP-QPSK	L	Outer_Full	4.452	4.880	PASS
N13	15	5	CP-16QAM	L	Outer_Full	4.473	5.080	PASS
N13	15	5	CP-64QAM	L	Outer_Full	4.468	4.990	PASS
N13	15	5	CP-256QAM	L	Outer_Full	4.450	4.960	PASS
N13	15	5	DFT-QPSK	М	Outer_Full	4.490	5.070	PASS
N13	15	5	DFT-PI2BPSK	М	Outer_Full	4.481	4.990	PASS
N13	15	5	DFT-16QAM	М	Outer_Full	4.475	4.960	PASS
N13	15	5	DFT-64QAM	М	Outer_Full	4.470	5.060	PASS
N13	15	5	DFT-256QAM	М	Outer_Full	4.485	5.010	PASS
N13	15	5	CP-QPSK	М	Outer_Full	4.48	5.110	PASS
N13	15	5	CP-16QAM	М	Outer_Full	4.474	5.040	PASS
N13	15	5	CP-64QAM	М	Outer_Full	4.468	4.880	PASS
N13	15	5	CP-256QAM	М	Outer_Full	4.501	5.100	PASS
N13	15	5	DFT-QPSK	Н	Outer_Full	4.479	4.950	PASS
N13	15	5	DFT-PI2BPSK	Н	Outer_Full	4.479	5.000	PASS
N13	15	5	DFT-16QAM	Н	Outer_Full	4.467	4.960	PASS
N13	15	5	DFT-64QAM	Н	Outer_Full	4.471	5.040	PASS
N13	15	5	DFT-256QAM	Н	Outer_Full	4.473	5.050	PASS
N13	15	5	CP-QPSK	Н	Outer_Full	4.457	4.990	PASS
N13	15	5	CP-16QAM	Н	Outer_Full	4.457	4.930	PASS
N13	15	5	CP-64QAM	Н	Outer_Full	4.471	5.050	PASS
N13	15	5	CP-256QAM	Н	Outer_Full	4.469	5.000	PASS
N13	15	10	DFT-QPSK	М	Outer_Full	8.939	9.680	PASS
N13	15	10	DFT-PI2BPSK	М	Outer_Full	8.916	9.660	PASS
N13	15	10	DFT-16QAM	М	Outer_Full	8.932	9.600	PASS
N13	15	10	DFT-64QAM	М	Outer_Full	8.932	9.540	PASS
N13	15	10	DFT-256QAM	М	Outer_Full	8.916	9.460	PASS



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N13	15	10	CP-QPSK	М	Outer_Full	9.271	9.960	PASS
N13	15	10	CP-16QAM	М	Outer_Full	9.260	9.940	PASS
N13	15	10	CP-64QAM	М	Outer_Full	9.279	9.920	PASS
N13	15	10	CP-256QAM	М	Outer_Full	9.267	10.140	PASS



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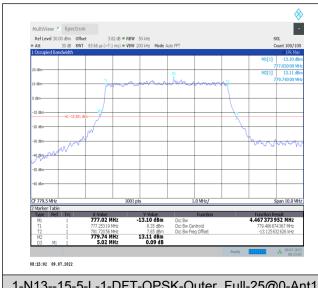
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Test Graphs





1-N13--15-5-L-1-DFT-QPSK-Outer_Full-25@0-Ant1-4.467-5.020-≤5-PASS



1-N13--15-5-L-2-DFT-PI2BPSK-Outer_Full-25@0-Ant1-4.453-4.980-≤5-PASS



1-N13--15-5-L-3-DFT-16QAM-Outer_Full-25@0-Ant1-4.459-4.960-≤5-PASS 1-N13--15-5-L-4-DFT-64QAM-Outer_Full-25@0-Ant1-4.458-5.010-≤5-PASS



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1-N13--15-5-L-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.464-4.890-≤5-PASS

1-N13--15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-4.452-4.880-≤5-PASS





1-N13--15-5-L-7-CP-16QAM-Outer_Full-25@0-Ant1-4.473-5.080-≤5-PASS 1-N13--15-5-L-8-CP-64QAM-Outer_Full-25@0-Ant1-4.468-4.990-≤5-PASS



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1-N13--15-5-L-9-CP-256QAM-Outer_Full-25@0-Ant1-4.45-4.960-≤5-PASS

1-N13--15-5-M-1-DFT-QPSK-Outer_Full-25@0-Ant1-4.49-5.070-≤5-PASS





1-N13--15-5-M-2-DFT-PI2BPSK-Outer_Full-25@0-Ant1-4.481-4.990-≤5-PASS

1-N13--15-5-M-3-DFT-16QAM-Outer_Full-25@0-Ant1-4.475-4.960-≤5-PASS



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1-N13--15-5-M-4-DFT-64QAM-Outer_Full-25@0-Ant1-4.47-5.060-≤5-PASS

1-N13--15-5-M-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.485-5.010-≤5-PASS





1-N13--15-5-M-6-CP-QPSK-Outer_Full-25@0-Ant1-4.48-5.110-≤5-PASS

1-N13--15-5-M-7-CP-16QAM-Outer_Full-25@0-Ant1-4.474-5.040-≤5-PASS

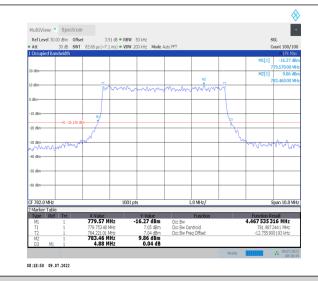


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1-N13--15-5-M-8-CP-64QAM-Outer_Full-25@0-Ant1-4.468-4.880-≤5-PASS

1-N13--15-5-M-9-CP-256QAM-Outer_Full-25@0-Ant1-4.501-5.100-≤5-PASS





1-N13--15-5-H-1-DFT-QPSK-Outer_Full-25@0-Ant1-4.479-4.950-≤5-PASS

1-N13--15-5-H-2-DFT-PI2BPSK-Outer_Full-25@0-Ant1-4.479-5.000-≤5-PASS



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1-N13--15-5-H-3-DFT-16QAM-Outer_Full-25@0-Ant1-4.467-4.960-≤5-PASS

1-N13--15-5-H-4-DFT-64QAM-Outer_Full-25@0-Ant1-4.471-5.040-≤5-PASS





1-N13--15-5-H-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.473-5.050-≤5-PASS

1-N13--15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-4.457-4.990-≤5-PASS



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