



Appendix B.15

NR CA_n5B



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

ANT7

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power	ERP	LIMIT	Verdict
N5B	15	5+10	DFT-QPSK	L	Inner_1RB_Left	21.61	22.86	38.45	PASS
N5B	15	5+10	DFT-QPSK	L	Inner_1RB_Right	21.68	22.93	38.45	PASS
N5B	15	5+10	DFT-QPSK	L	Outer_Full	17.38	18.63	38.45	PASS
N5B	15	5+10	DFT-256QAM	L	Inner_1RB_Left	16.82	18.07	38.45	PASS
N5B	15	5+10	DFT-256QAM	L	Inner_1RB_Right	16.97	18.22	38.45	PASS
N5B	15	5+10	DFT-256QAM	L	Outer_Full	16.91	18.16	38.45	PASS
N5B	15	5+10	DFT-QPSK	M	Inner_1RB_Left	21.86	23.11	38.45	PASS
N5B	15	5+10	DFT-QPSK	M	Inner_1RB_Right	21.78	23.03	38.45	PASS
N5B	15	5+10	DFT-QPSK	M	Outer_Full	17.49	18.74	38.45	PASS
N5B	15	5+10	DFT-256QAM	M	Inner_1RB_Left	16.8	18.05	38.45	PASS
N5B	15	5+10	DFT-256QAM	M	Inner_1RB_Right	16.72	17.97	38.45	PASS
N5B	15	5+10	DFT-256QAM	M	Outer_Full	16.55	17.8	38.45	PASS
N5B	15	5+10	DFT-QPSK	H	Inner_1RB_Left	21.47	22.72	38.45	PASS
N5B	15	5+10	DFT-QPSK	H	Inner_1RB_Right	21.45	22.7	38.45	PASS
N5B	15	5+10	DFT-QPSK	H	Outer_Full	17.12	18.37	38.45	PASS
N5B	15	5+10	DFT-256QAM	H	Inner_1RB_Left	16.91	18.16	38.45	PASS
N5B	15	5+10	DFT-256QAM	H	Inner_1RB_Right	16.83	18.08	38.45	PASS
N5B	15	5+10	DFT-256QAM	H	Outer_Full	16.57	17.82	38.45	PASS
N5B	15	5+15	DFT-QPSK	L	Inner_1RB_Left	22.83	24.08	38.45	PASS
N5B	15	5+15	DFT-QPSK	L	Inner_1RB_Right	22.53	23.78	38.45	PASS
N5B	15	5+15	DFT-QPSK	L	Outer_Full	20.91	22.16	38.45	PASS
N5B	15	5+15	DFT-256QAM	L	Inner_1RB_Left	18.27	19.52	38.45	PASS
N5B	15	5+15	DFT-256QAM	L	Inner_1RB_Right	18.34	19.59	38.45	PASS
N5B	15	5+15	DFT-256QAM	L	Outer_Full	18.42	19.67	38.45	PASS
N5B	15	5+15	DFT-QPSK	M	Inner_1RB_Left	22.45	23.7	38.45	PASS
N5B	15	5+15	DFT-QPSK	M	Inner_1RB_Right	22.74	23.99	38.45	PASS
N5B	15	5+15	DFT-QPSK	M	Outer_Full	20.9	22.15	38.45	PASS
N5B	15	5+15	DFT-256QAM	M	Inner_1RB_Left	18.56	19.81	38.45	PASS
N5B	15	5+15	DFT-256QAM	M	Inner_1RB_Right	18.49	19.74	38.45	PASS



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N5B	15	5+15	DFT-256QAM	M	Outer_Full	18.41	19.66	38.45	PASS
N5B	15	5+15	DFT-QPSK	H	Inner_1RB_Left	22.73	23.98	38.45	PASS
N5B	15	5+15	DFT-QPSK	H	Inner_1RB_Right	22.62	23.87	38.45	PASS
N5B	15	5+15	DFT-QPSK	H	Outer_Full	20.8	22.05	38.45	PASS
N5B	15	5+15	DFT-256QAM	H	Inner_1RB_Left	18.48	19.73	38.45	PASS
N5B	15	5+15	DFT-256QAM	H	Inner_1RB_Right	18.42	19.67	38.45	PASS
N5B	15	5+15	DFT-256QAM	H	Outer_Full	18.23	19.48	38.45	PASS
N5B	15	5+20	DFT-QPSK	165300+167760	Inner_1RB_Left	22.84	24.09	38.45	PASS
N5B	15	5+20	DFT-QPSK	165300+167760	Inner_1RB_Right	22.84	24.09	38.45	PASS
N5B	15	5+20	DFT-QPSK	165300+167760	Outer_Full	20.88	22.13	38.45	PASS
N5B	15	5+20	DFT-256QAM	165300+167760	Inner_1RB_Left	18.46	19.71	38.45	PASS
N5B	15	5+20	DFT-256QAM	165300+167760	Inner_1RB_Right	18.52	19.77	38.45	PASS
N5B	15	5+20	DFT-256QAM	165300+167760	Outer_Full	18.38	19.63	38.45	PASS
N5B	15	10+5	DFT-QPSK	L	Inner_1RB_Left	21.58	22.83	38.45	PASS
N5B	15	10+5	DFT-QPSK	L	Inner_1RB_Right	21.67	22.92	38.45	PASS
N5B	15	10+5	DFT-QPSK	L	Outer_Full	17.34	18.59	38.45	PASS
N5B	15	10+5	DFT-256QAM	L	Inner_1RB_Left	16.99	18.24	38.45	PASS
N5B	15	10+5	DFT-256QAM	L	Inner_1RB_Right	16.88	18.13	38.45	PASS
N5B	15	10+5	DFT-256QAM	L	Outer_Full	16.81	18.06	38.45	PASS
N5B	15	10+5	DFT-QPSK	M	Inner_1RB_Left	21.61	22.86	38.45	PASS
N5B	15	10+5	DFT-QPSK	M	Inner_1RB_Right	21.47	22.72	38.45	PASS
N5B	15	10+5	DFT-QPSK	M	Outer_Full	17.19	18.44	38.45	PASS
N5B	15	10+5	DFT-256QAM	M	Inner_1RB_Left	16.91	18.16	38.45	PASS
N5B	15	10+5	DFT-256QAM	M	Inner_1RB_Right	16.82	18.07	38.45	PASS
N5B	15	10+5	DFT-256QAM	M	Outer_Full	16.68	17.93	38.45	PASS
N5B	15	10+5	DFT-QPSK	H	Inner_1RB_Left	21.46	22.71	38.45	PASS
N5B	15	10+5	DFT-QPSK	H	Inner_1RB_Right	21.47	22.72	38.45	PASS
N5B	15	10+5	DFT-QPSK	H	Outer_Full	17.15	18.4	38.45	PASS
N5B	15	10+5	DFT-256QAM	H	Inner_1RB_Left	16.84	18.09	38.45	PASS
N5B	15	10+5	DFT-256QAM	H	Inner_1RB_Right	16.79	18.04	38.45	PASS
N5B	15	10+5	DFT-256QAM	H	Outer_Full	16.6	17.85	38.45	PASS
N5B	15	10+15	DFT-QPSK	165800+168300	Inner_1RB_Left	22.53	23.78	38.45	PASS
N5B	15	10+15	DFT-QPSK	165800+168300	Inner_1RB_Right	22.43	23.68	38.45	PASS
N5B	15	10+15	DFT-QPSK	165800+168300	Outer_Full	20.11	21.36	38.45	PASS



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N5B	15	10+15	DFT-256QAM	165800+168300	Inner_1RB_Left	18.46	19.71	38.45	PASS
N5B	15	10+15	DFT-256QAM	165800+168300	Inner_1RB_Right	18.48	19.73	38.45	PASS
N5B	15	10+15	DFT-256QAM	165800+168300	Outer_Full	18.23	19.48	38.45	PASS
N5B	15	15+5	DFT-QPSK	L	Inner_1RB_Left	23.08	24.33	38.45	PASS
N5B	15	15+5	DFT-QPSK	L	Inner_1RB_Right	23.01	24.26	38.45	PASS
N5B	15	15+5	DFT-QPSK	L	Outer_Full	21.13	22.38	38.45	PASS
N5B	15	15+5	DFT-256QAM	L	Inner_1RB_Left	18.92	20.17	38.45	PASS
N5B	15	15+5	DFT-256QAM	L	Inner_1RB_Right	18.88	20.13	38.45	PASS
N5B	15	15+5	DFT-256QAM	L	Outer_Full	18.59	19.84	38.45	PASS
N5B	15	15+5	DFT-QPSK	M	Inner_1RB_Left	22.66	23.91	38.45	PASS
N5B	15	15+5	DFT-QPSK	M	Inner_1RB_Right	22.75	24	38.45	PASS
N5B	15	15+5	DFT-QPSK	M	Outer_Full	20.91	22.16	38.45	PASS
N5B	15	15+5	DFT-256QAM	M	Inner_1RB_Left	18.82	20.07	38.45	PASS
N5B	15	15+5	DFT-256QAM	M	Inner_1RB_Right	18.76	20.01	38.45	PASS
N5B	15	15+5	DFT-256QAM	M	Outer_Full	18.51	19.76	38.45	PASS
N5B	15	15+5	DFT-QPSK	H	Inner_1RB_Left	22.7	23.95	38.45	PASS
N5B	15	15+5	DFT-QPSK	H	Inner_1RB_Right	22.73	23.98	38.45	PASS
N5B	15	15+5	DFT-QPSK	H	Outer_Full	21.02	22.27	38.45	PASS
N5B	15	15+5	DFT-256QAM	H	Inner_1RB_Left	18.86	20.11	38.45	PASS
N5B	15	15+5	DFT-256QAM	H	Inner_1RB_Right	18.47	19.72	38.45	PASS
N5B	15	15+5	DFT-256QAM	H	Outer_Full	18.41	19.66	38.45	PASS
N5B	15	15+10	DFT-QPSK	166300+168800	Inner_1RB_Left	22.55	23.8	38.45	PASS
N5B	15	15+10	DFT-QPSK	166300+168800	Inner_1RB_Right	22.54	23.79	38.45	PASS
N5B	15	15+10	DFT-QPSK	166300+168800	Outer_Full	20.8	22.05	38.45	PASS
N5B	15	15+10	DFT-256QAM	166300+168800	Inner_1RB_Left	18.56	19.81	38.45	PASS
N5B	15	15+10	DFT-256QAM	166300+168800	Inner_1RB_Right	18.49	19.74	38.45	PASS
N5B	15	15+10	DFT-256QAM	166300+168800	Outer_Full	18.41	19.66	38.45	PASS
N5B	15	20+5	DFT-QPSK	166800+169300	Inner_1RB_Left	23.19	24.44	38.45	PASS
N5B	15	20+5	DFT-QPSK	166800+169300	Inner_1RB_Right	23.06	24.31	38.45	PASS
N5B	15	20+5	DFT-QPSK	166800+169300	Outer_Full	21.02	22.27	38.45	PASS
N5B	15	20+5	DFT-256QAM	166800+169300	Inner_1RB_Left	18.83	20.08	38.45	PASS
N5B	15	20+5	DFT-256QAM	166800+169300	Inner_1RB_Right	18.78	20.03	38.45	PASS
N5B	15	20+5	DFT-256QAM	166800+169300	Outer_Full	18.5	19.75	38.45	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
5	15	5+10	DFT-QPSK	M	Outer_Full	13.58	13.99	PASS
5	15	5+10	DFT-16QAM	M	Outer_Full	13.61	13.99	PASS
5	15	5+15	DFT-QPSK	M	Outer_Full	18.37	18.82	PASS
5	15	5+15	DFT-16QAM	M	Outer_Full	18.40	18.84	PASS
5	15	5+20	DFT-QPSK	M	Outer_Full	22.81	23.35	PASS
5	15	5+20	DFT-16QAM	M	Outer_Full	22.77	23.27	PASS



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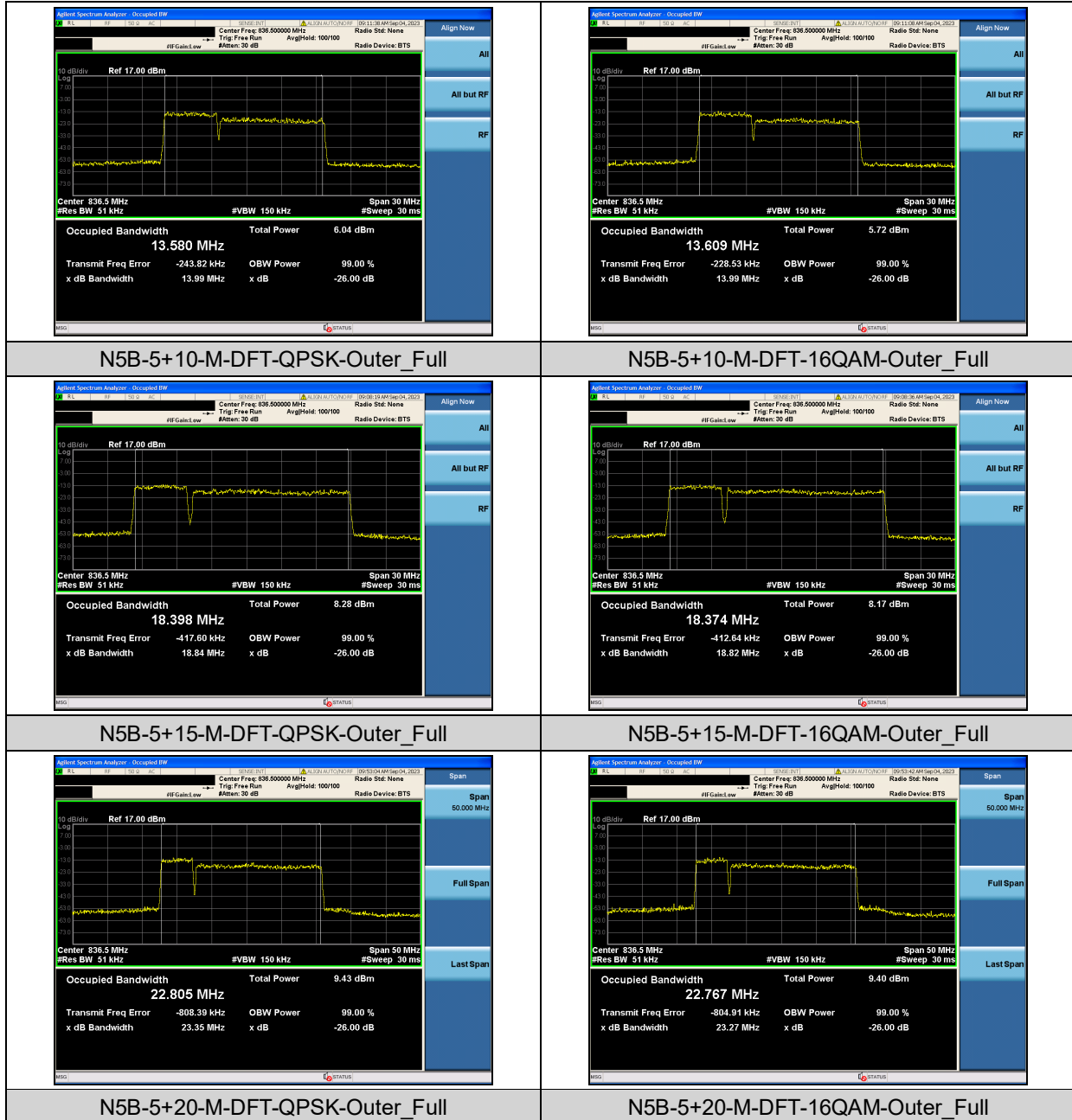
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Occupied Bandwidth Test Graphs



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Field Strength of Spurious Radiation

Test Band = NR Band5B_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1319.4286	43.65	-48.10	25.14	-74.57	-13.00	61.57	Horizontal
2	1788	43.61	-47.98	25.48	-74.14	-13.00	61.14	Horizontal
3	3503.4286	42.44	-46.53	28.60	-70.75	-13.00	57.75	Horizontal
4	4936.5714	41.55	-45.66	31.26	-68.11	-13.00	55.11	Horizontal
5	5965.1429	40.68	-44.62	32.69	-66.51	-13.00	53.51	Horizontal
6	7417.1429	38.74	-43.29	36.37	-63.44	-13.00	50.44	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1332.5714	44.87	-48.09	25.13	-73.34	-13.00	60.34	Vertical
2	1672.5714	44.12	-48.19	25.31	-74.02	-13.00	61.02	Vertical
3	1994.2857	43.36	-47.91	25.89	-73.92	-13.00	60.92	Vertical
4	3478.8571	42.65	-46.54	28.59	-70.56	-13.00	57.56	Vertical
5	4567.4286	41.40	-45.73	30.45	-69.14	-13.00	56.14	Vertical
6	5419.4286	40.59	-45.00	32.41	-67.27	-13.00	54.27	Vertical



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Test Band = NR Band5B_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1334.2857	43.31	-48.09	25.13	-74.90	-13.00	61.90	Horizontal
2	1786.2857	43.32	-47.98	25.48	-74.44	-13.00	61.44	Horizontal
3	2091.4286	43.58	-47.73	26.16	-73.25	-13.00	60.25	Horizontal
4	3474.8571	42.97	-46.54	28.58	-70.25	-13.00	57.25	Horizontal
5	4109.1429	41.74	-45.91	29.36	-70.06	-13.00	57.06	Horizontal
6	5956	40.82	-44.67	32.69	-66.42	-13.00	53.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1619.4286	44.28	-48.26	25.23	-74.01	-13.00	61.01	Vertical
2	2003.4286	43.59	-47.89	25.91	-73.65	-13.00	60.65	Vertical
3	2981.7143	43.30	-46.53	28.26	-70.23	-13.00	57.23	Vertical
4	4280	41.38	-45.82	29.77	-69.92	-13.00	56.92	Vertical
5	5270.2857	40.68	-45.20	32.05	-67.73	-13.00	54.73	Vertical
6	6320.5714	39.68	-44.64	33.73	-66.49	-13.00	53.49	Vertical



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Test Band = NR Band5B_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1281.1429	44.33	-48.21	25.16	-73.98	-13.00	60.98	Horizontal
2	1749.1429	43.81	-48.06	25.42	-74.08	-13.00	61.08	Horizontal
3	1936	44.01	-48.00	25.77	-73.47	-13.00	60.47	Horizontal
4	3478.2857	42.85	-46.54	28.59	-70.36	-13.00	57.36	Horizontal
5	4591.4286	41.57	-45.77	30.50	-68.96	-13.00	55.96	Horizontal
6	5221.7143	40.52	-45.06	31.93	-67.86	-13.00	54.86	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1325.1429	44.39	-48.10	25.14	-73.83	-13.00	60.83	Vertical
2	1619.4286	44.19	-48.26	25.23	-74.10	-13.00	61.10	Vertical
3	1759.4286	43.81	-48.04	25.44	-74.05	-13.00	61.05	Vertical
4	3490.2857	42.66	-46.54	28.59	-70.55	-13.00	57.55	Vertical
5	4917.7143	41.80	-45.62	31.22	-67.86	-13.00	54.86	Vertical
6	5911.4286	41.08	-44.91	32.68	-66.41	-13.00	53.41	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

---End of Attachment---



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