



Appendix B.19

NR CA_n77C(3700-3980)



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

ANT3

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power	EIRP	LIMIT	Verdict
N77C	30	100+80	DFT-QPSK	650000+655994	Inner_1RB_Left	21.34	19.04	30	PASS
N77C	30	100+80	DFT-QPSK	650000+655994	Inner_1RB_Right	21.33	19.03	30	PASS
N77C	30	100+80	DFT-QPSK	650000+655994	Outer_Full	17.26	14.96	30	PASS
N77C	30	100+80	DFT-256QAM	650000+655994	Inner_1RB_Left	16.33	14.03	30	PASS
N77C	30	100+80	DFT-256QAM	650000+655994	Inner_1RB_Right	16.27	13.97	30	PASS
N77C	30	100+80	DFT-256QAM	650000+655994	Outer_Full	16.33	14.03	30	PASS
N77C	30	100+90	DFT-QPSK	650000+656330	Inner_1RB_Left	21.48	19.18	30	PASS
N77C	30	100+90	DFT-QPSK	650000+656330	Inner_1RB_Right	21.45	19.15	30	PASS
N77C	30	100+90	DFT-QPSK	650000+656330	Outer_Full	19.53	17.23	30	PASS
N77C	30	100+90	DFT-256QAM	650000+656330	Inner_1RB_Left	17.23	14.93	30	PASS
N77C	30	100+90	DFT-256QAM	650000+656330	Inner_1RB_Right	16.66	14.36	30	PASS
N77C	30	100+90	DFT-256QAM	650000+656330	Outer_Full	16.62	14.32	30	PASS



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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

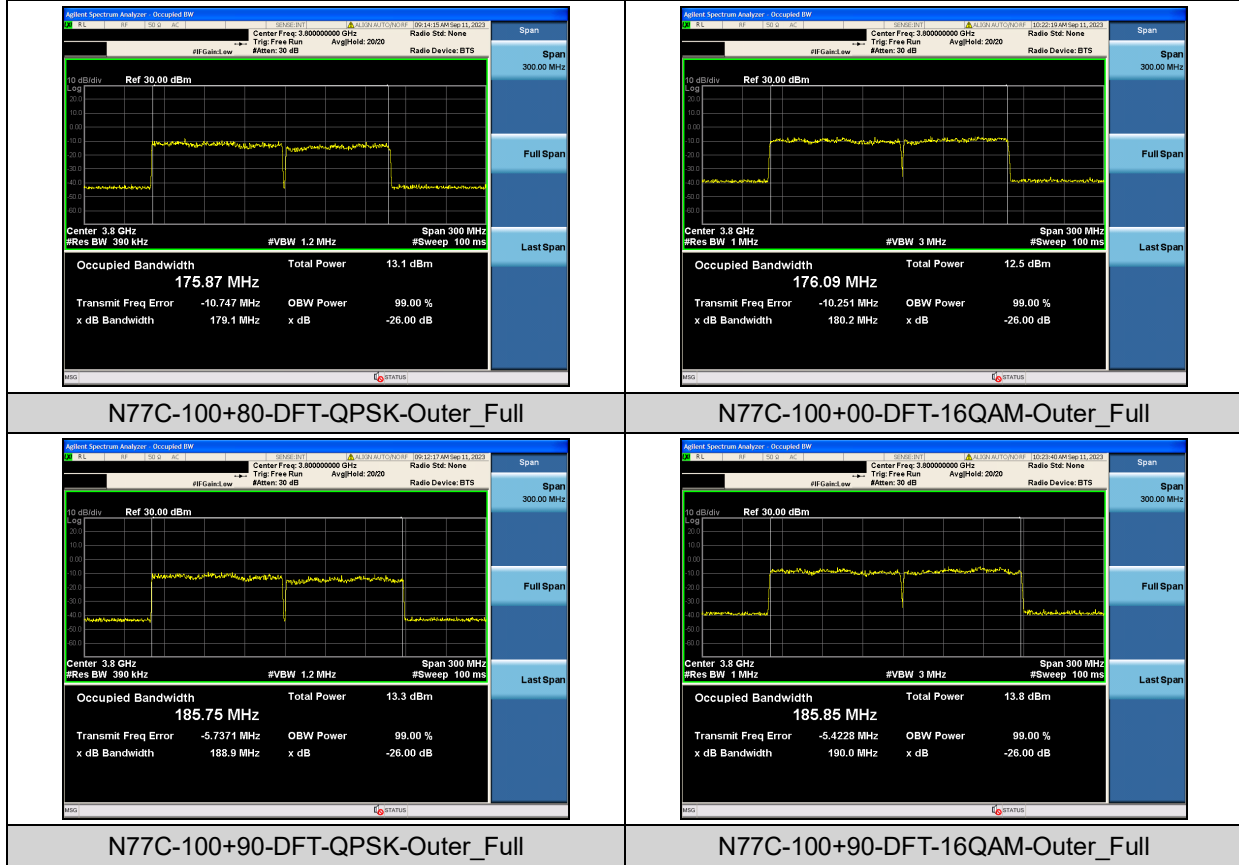
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
77	30	100+80	DFT-QPSK	650000+655994	Outer_Full	175.87	179.1	PASS
77	30	100+80	DFT-16QAM	650000+655994	Outer_Full	176.09	180.2	PASS
77	30	100+90	DFT-QPSK	650000+656330	Outer_Full	185.75	188.9	PASS
77	30	100+90	DFT-16QAM	650000+656330	Outer_Full	185.85	190.0	PASS



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Occupied Bandwidth Test Graphs



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Field Strength of Spurious Radiation

Test Band = NR Band77C_ TM1

Test Channel = Low 3700-3980

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7211.275	39.93	-43.58	35.79	-63.12	-13.00	50.12	Horizontal
2	8409.575	38.11	-41.41	36.60	-61.97	-13.00	48.97	Horizontal
3	8946.625	36.21	-40.89	36.33	-63.61	-13.00	50.61	Horizontal
4	10625.625	29.86	-37.88	38.51	-64.76	-13.00	51.76	Horizontal
5	12193.65	27.80	-37.12	38.86	-65.72	-13.00	52.72	Horizontal
6	14330.925	25.76	-35.62	41.03	-64.09	-13.00	51.09	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8040.425	37.64	-41.81	36.78	-62.65	-13.00	49.65	Vertical
2	9600.975	34.19	-39.20	37.44	-62.83	-13.00	49.83	Vertical
3	10671.05	29.75	-37.64	38.54	-64.62	-13.00	51.62	Vertical
4	11247.2	28.93	-36.90	38.72	-64.50	-13.00	51.50	Vertical
5	12198.825	27.72	-37.11	38.86	-65.79	-13.00	52.79	Vertical
6	13972.125	25.35	-35.00	40.85	-64.06	-13.00	51.06	Vertical



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Test Band = NR Band77C_ TM1
Test Channel = Mid 3700-3980

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7652.3	39.79	-42.85	36.66	-61.66	-13.00	48.66	Horizontal
2	8547.575	37.20	-41.37	36.53	-62.90	-13.00	49.90	Horizontal
3	9425.025	35.20	-39.93	37.11	-62.88	-13.00	49.88	Horizontal
4	10098.35	32.44	-38.71	38.25	-63.28	-13.00	50.28	Horizontal
5	11139.675	30.24	-37.29	38.71	-63.60	-13.00	50.60	Horizontal
6	12098.775	28.35	-37.19	38.83	-65.27	-13.00	52.27	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7369.975	40.09	-42.95	36.24	-61.89	-13.00	48.89	Vertical
2	9097.85	35.83	-40.42	36.49	-63.36	-13.00	50.36	Vertical
3	10117.9	32.91	-38.80	38.26	-62.89	-13.00	49.89	Vertical
4	11332.875	30.47	-37.32	38.73	-63.38	-13.00	50.38	Vertical
5	12870.425	27.75	-36.80	39.06	-65.24	-13.00	52.24	Vertical
6	14562.075	26.47	-34.93	41.12	-62.59	-13.00	49.59	Vertical



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Test Band = NR Band77C_ TM1
Test Channel = High 3700-3980

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7669.55	39.40	-42.89	36.67	-62.08	-13.00	49.08	Horizontal
2	9609.025	34.46	-39.23	37.46	-62.57	-13.00	49.57	Horizontal
3	10485.325	32.10	-38.75	38.44	-63.47	-13.00	50.47	Horizontal
4	11587.6	27.37	-36.92	38.76	-66.05	-13.00	53.05	Horizontal
5	12870.425	28.05	-36.80	39.06	-64.94	-13.00	51.94	Horizontal
6	14643.725	26.50	-35.09	41.16	-62.69	-13.00	49.69	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7846.65	38.74	-42.65	36.74	-62.44	-13.00	49.44	Vertical
2	8967.325	37.02	-40.88	36.32	-62.81	-13.00	49.81	Vertical
3	10660.7	30.60	-37.69	38.53	-63.82	-13.00	50.82	Vertical
4	11220.175	29.72	-36.73	38.72	-63.55	-13.00	50.55	Vertical
5	12708.85	28.24	-36.81	39.01	-64.82	-13.00	51.82	Vertical
6	13915.2	27.45	-35.45	40.75	-62.51	-13.00	49.51	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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