

Nortel response to address the questions raised by FCC

Note: Most of the required info is in the supporting documents of the application. Following is a summary of it.

1. Identify, justify and describe:

a) Specific RF profiles, certification profiles, test cases, test scripts:

RF Profiles

Position within AWS Band	Carrier Configurations	Carrier Centre Channels	Carrier Centre Frequencies [MHz]	Bandwidth [MHz]
Low	1 Carrier	Ch 25	2111.25	1.25
Low	2 Carrier	Ch 25, 50	2111.25, 2112.50	2.50
Low	3 Carrier	Ch 25, 50, 75	2111.25, 2112.50, 2113.75	3.75
Middle	3 Carrier	Ch 425, 450, 475	2131.25, 2132.50, 2133.75	3.75
High	1 Carrier	Ch 875	2153.75	1.25
High	2 Carrier	Ch 850, 875	2152.50, 2153.75	2.50
High	3 Carrier	Ch 825, 850, 875	2151.25, 2152.50, 2153.75	3.75

Certification Profiles/Test Cases:

FCC Measurement Specification	FCC Limit Specification	Test Description
2.1033		PA Current Specification
2.1046		RF Power Output
2.1049		Occupied Bandwidth
2.1051, 2.1057	27.53	Spurious Emissions at Antenna Terminals
2.1053, 2.1057		Field Strength Emissions
2.1055	27.54	Frequency Stability

Test Scripts: All test cases were performed manually;

b) Relevant subclause cross-references to RF conformance test documents and standards, also info about availability of applicable standards

The test reports are submitted in accordance with the FCC Rules and Regulations, part 2, Subpart J, Sections 2.1046 through 2.1057 for equipment authorization of Nortel Networks' CDMA 2100 MHz Radio Module. The 2100 MHz Radio Module is intended for use in the Domestic Public cellular radio telecommunications service (AWS frequency bands) and is designed according with the following standards:

- *CFR 47, Part 27 (Miscellaneous Wireless Communication Services), Subpart C, Technical Standards*
- *CFR 47, part 2, Subpart J, Equipment Authorization Procedures – Equipment Authorization*

c) specific modulations, subchannelizations, permutations used for each test

Specific Modulations used: IS-95 QPSK, IS-856 QPSK, IS-856 8PSK, IS-856 16QAM

Subchannelization and Channel permutations

Carrier Configurations	IS-95	IS-856	IS-95 and IS-856* *Ch is configured as IS-856	Tests
1 Carrier	Ch 25	Ch 25	-	RF Output Power Occupied Bandwidth Spurious Conducted Emissions
1 Carrier	Ch 875	Ch 875	-	RF Output Power Occupied Bandwidth Spurious Conducted Emissions
2 Carrier	Ch 25, 50	-	-	RF Output Power Occupied Bandwidth Spurious Conducted Emissions

2 Carrier	Ch 850, 875	-	-	RF Output Power Occupied Bandwidth Spurious Conducted Emissions
3 Carrier	Ch 25, 50, 75	Ch 25, 50, 75	Ch 25, 50, 75*	RF Output Power Occupied Bandwidth Spurious Conducted Emissions
3 Carrier	Ch 425, 450, 475	-	-	Frequency Stability
3 Carrier	Ch 825, 850, 875	Ch 825, 850, 875	Ch 825, 850, 875*	RF Output Power Occupied Bandwidth Spurious Conducted Emissions

d) Specific test equipment and setup info and installed options/add-ons

Spectrum Analyzer, Rhode and Schwarz, FSEM-30, SN: DE25141

Vector Signal Analyzer, Agilent, E4406A, SN: US39480709 with CDMA ONE add-on

RF Power Meter, Agilent, HP438A, SN: 3318A99057

2) Description of smart-antenna and/or beamforming modes if applicable

Not Applicable