

**3GPP2 C.S0057-B**

**Version 1.0**

**Date: August 3, 2006**



**3RD GENERATION  
PARTNERSHIP  
PROJECT 2  
"3GPP2"**

## ***Band Class Specification for cdma2000 Spread Spectrum Systems***

### ***Revision B***

#### **COPYRIGHT**

3GPP2 and its Organizational Partners claim copyright in this document and individual Organizational Partners may copyright and issue documents or standards publications in individual Organizational Partner's name based on this document. Requests for reproduction of this document should be directed to the 3GPP2 Secretariat at [secretariat@3gpp2.org](mailto:secretariat@3gpp2.org). Requests to reproduce individual Organizational Partner's documents should be directed to that Organizational Partner. See [www.3gpp2.org](http://www.3gpp2.org) for more information.

No text.

**CONTENTS**

|    |  |       |
|----|--|-------|
| 1  | FOREWORD .....   | xliii |
| 2  | NOTES .....  | xliv  |
| 3  | REFERENCES .....   | xlix  |
| 4  | 1 GENERAL.....   | 1-1   |
| 5  | 1.1 Terms .....  | 1-1   |
| 6  | 1.2 Numeric Information .....  | 1-4   |
| 7  | 1.2.1 Mobile Station Stored Parameters .....                                 | 1-4   |
| 8  | 1.3 Tolerances .....   | 1-4   |
| 9  | 1.4 System Selection Code.....   | 1-5   |
| 10 | 1.5 List of Band Classes .....   | 1-7   |
| 11 | 2 REQUIREMENTS FOR THE OPERATION OF THE “ <i>PHYSICAL LAYER STANDARD FOR</i> |       |
| 12 | <i>CDMA2000 SPREAD SPECTRUM SYSTEMS</i> ” .....                              | 2-1   |
| 13 | 2.1 Channel Spacing and Designation .....                                    | 2-1   |
| 14 | 2.1.1 Band Class 0 (800 MHz Band) .....                                      | 2-1   |
| 15 | 2.1.2 Band Class 1 (1900 MHz Band) .....                                     | 2-6   |
| 16 | 2.1.3 Band Class 2 (TACS Band).....  | 2-10  |
| 17 | 2.1.4 Band Class 3 (JTACS Band).....   | 2-15  |
| 18 | 2.1.5 Band Class 4 (Korean PCS Band).....                                    | 2-17  |
| 19 | 2.1.6 Band Class 5 (450 MHz Band) .....                                      | 2-20  |
| 20 | 2.1.7 Band Class 6 (2 GHz Band).....   | 2-26  |
| 21 | 2.1.8 Band Class 7 (700 MHz Band) .....                                      | 2-28  |
| 22 | 2.1.9 Band Class 8 (1800 MHz Band) .....                                     | 2-31  |
| 23 | 2.1.10 Band Class 9 (900 MHz Band) .....                                     | 2-32  |
| 24 | 2.1.11 Band Class 10 (Secondary 800 MHz Band) .....                          | 2-34  |
| 25 | 2.1.12 Band Class 11 (400 MHz European PAMR Band) .....                      | 2-38  |
| 26 | 2.1.13 Band Class 12 (800 MHz PAMR Band) .....                               | 2-44  |
| 27 | 2.1.14 Band Class 13 (2.5 GHz IMT-2000 Extension Band) .....                 | 2-46  |
| 28 | 2.1.15 Band Class 14 (US PCS 1.9GHz Band).....                               | 2-53  |
| 29 | 2.1.16 Band Class 15 (AWS Band).....   | 2-58  |
| 30 | 2.1.17 Band Class 16 (US 2.5GHz Band) .....                                  | 2-62  |
| 31 | 2.2 Frequency Tolerance .....  | 2-66  |
| 32 | 2.3 Power Output Characteristics: Controlled Output Power .....              | 2-66  |

**CONTENTS**

|    |   |      |
|----|---|------|
| 1  | 2.3.1 Open Loop Output Power for Reverse Link Channels.....             | 2-67 |
| 2  | 3 REQUIREMENTS FOR THE OPERATION OF THE “CDMA2000 HIGH RATE PACKET DATA |      |
| 3  | <i>AIR INTERFACE</i> ” .....  | 3-1  |
| 4  | 3.1 Channel Spacing and Designation.....                                | 3-1  |
| 5  | 3.1.1 Band Class 0 (800-MHz Band).....                                  | 3-1  |
| 6  | 3.1.2 Band Class 1 (1900-MHz Band).....                                 | 3-4  |
| 7  | 3.1.3 Band Class 2 (TACS Band) .....                                    | 3-5  |
| 8  | 3.1.4 Band Class 3 (JTACS Band) .....                                   | 3-7  |
| 9  | 3.1.5 Band Class 4 (Korean PCS Band) .....                              | 3-9  |
| 10 | 3.1.6 Band Class 5 (450-MHz Band).....                                  | 3-10 |
| 11 | 3.1.7 Band Class 6 (2-GHz Band) .....                                   | 3-14 |
| 12 | 3.1.8 Band Class 7 (700-MHz Band).....                                  | 3-15 |
| 13 | 3.1.9 Band Class 8 (1800-MHz Band).....                                 | 3-16 |
| 14 | 3.1.10 Band Class 9 (900-MHz Band).....                                 | 3-17 |
| 15 | 3.1.11 Band Class 10 (Secondary 800 MHz Band).....                      | 3-18 |
| 16 | 3.1.12 Band Class 11 (400 MHz European PAMR Band).....                  | 3-19 |
| 17 | 3.1.13 Band Class 12 (800 MHz PAMR Band).....                           | 3-23 |
| 18 | 3.1.14 Band Class 13 (2.5 GHz IMT-2000 Extension Band).....             | 3-24 |
| 19 | 3.1.15 Band Class 14 (US PCS 1.9GHz Band) .....                         | 3-27 |
| 20 | 3.1.16 Band Class 15 (AWS Band) .....                                   | 3-28 |
| 21 | 3.1.17 Band Class 16 (US 2.5GHz Band).....                              | 3-30 |
| 22 | 3.1.18 Band Class 17 (US 2.5GHz Forward Link Only Band).....            | 3-32 |
| 23 | 3.2 Frequency Tolerance .....   | 3-33 |
| 24 | 3.3 Power Output Characteristics: Controlled Output Power .....         | 3-33 |
| 25 | 3.3.1 Estimated Open Loop Output Power for Reverse Link Channels .....  | 3-33 |

**TABLES**

|    |  |      |
|----|--|------|
| 1  | Table 1.4-1: System Selection Code .....   | 1-5  |
| 2  | Table 1.5-1: Band Class List.....  | 1-8  |
| 3  | Table 2.1.1-1. Band Class 0 System Frequency Correspondence .....                | 2-2  |
| 4  | Table 2.1.1-2. CDMA Channel Number to CDMA Frequency Assignment                  |      |
| 5  | Correspondence for Band Class 0 .....  | 2-2  |
| 6  | Table 2.1.1-3. CDMA Channel Numbers and Corresponding Frequencies for Band       |      |
| 7  | Class 0 and Spreading Rate 1 .....   | 2-3  |
| 8  | Table 2.1.1-4. CDMA Channel Numbers and Corresponding Frequencies for Band       |      |
| 9  | Class 0 and Spreading Rate 3 .....   | 2-4  |
| 10 | Table 2.1.1-5. CDMA Preferred Set of Frequency Assignments for Band Class 0..... | 2-5  |
| 11 | Table 2.1.1-6. Sync Channel Preferred Set of Frequency Assignments for Spreading |      |
| 12 | Rate 3 for Band Class 0 .....  | 2-5  |
| 13 | Table 2.1.2-1. Band Class 1 Block Frequency Correspondence .....                 | 2-7  |
| 14 | Table 2.1.2-2. CDMA Channel Number to CDMA Frequency Assignment                  |      |
| 15 | Correspondence for Band Class 1 .....  | 2-7  |
| 16 | Table 2.1.2-3. CDMA Channel Numbers and Corresponding Frequencies for Band       |      |
| 17 | Class 1 and Spreading Rate 1 .....   | 2-8  |
| 18 | Table 2.1.2-4. CDMA Channel Numbers and Corresponding Frequencies for Band       |      |
| 19 | Class 1 and Spreading Rate 3 .....   | 2-9  |
| 20 | Table 2.1.2-5. CDMA Preferred Set of Frequency Assignments for Band Class 1..... | 2-10 |
| 21 | Table 2.1.2-6. Sync Channel Preferred Set of Frequency Assignments for Spreading |      |
| 22 | Rate 3 for Band Class 1 .....  | 2-10 |
| 23 | Table 2.1.3-1. Band Class 2 Block Frequency Correspondence .....                 | 2-11 |
| 24 | Table 2.1.3-2. Band Class 2 Band Subclasses.....                                 | 2-12 |
| 25 | Table 2.1.3-3. CDMA Channel Number to CDMA Frequency Assignment                  |      |
| 26 | Correspondence for Band Class 2 .....  | 2-12 |
| 27 | Table 2.1.3-4. CDMA Channel Numbers and Corresponding Frequencies for Band       |      |
| 28 | Class 2 and Spreading Rate 1 .....   | 2-13 |
| 29 | Table 2.1.3-5. CDMA Channel Numbers and Corresponding Frequencies for Band       |      |
| 30 | Class 2 and Spreading Rate 3 .....   | 2-14 |
| 31 | Table 2.1.3-6. CDMA Preferred Set of Frequency Assignments for Band Class 2..... | 2-14 |
| 32 | Table 2.1.4-1. Band Class 3 System Frequency Correspondence .....                | 2-15 |
| 33 | Table 2.1.4-2. CDMA Channel Number to CDMA Frequency Assignment                  |      |
| 34 | Correspondence for Band Class 3 .....  | 2-16 |

**TABLES**

|    |   |      |
|----|---|------|
| 1  | Table 2.1.4-3. CDMA Channel Numbers and Corresponding Frequencies for Band        |      |
| 2  | Class 3 and Spreading Rate 1 .....  | 2-16 |
| 3  | Table 2.1.4-4. CDMA Preferred Set of Frequency Assignments for Band Class 3 ..... | 2-17 |
| 4  | Table 2.1.5-1. Band Class 4 Block Frequency Correspondence .....                  | 2-18 |
| 5  | Table 2.1.5-2. CDMA Channel Number to CDMA Frequency Assignment                   |      |
| 6  | Correspondence for Band Class 4.....  | 2-18 |
| 7  | Table 2.1.5-3. CDMA Channel Numbers and Corresponding Frequencies for Band        |      |
| 8  | Class 4 and Spreading Rate 1 .....  | 2-18 |
| 9  | Table 2.1.5-4. CDMA Channel Numbers and Corresponding Frequencies for Band        |      |
| 10 | Class 4 and Spreading Rate 3 .....  | 2-19 |
| 11 | Table 2.1.5-5. CDMA Preferred Set of Frequency Assignments for Band Class 4 ..... | 2-19 |
| 12 | Table 2.1.5-6. Sync Channel Preferred Set of Frequency Assignments for Spreading  |      |
| 13 | Rate 3 for Band Class 4.....  | 2-19 |
| 14 | Table 2.1.6-1. Band Class 5 Block Frequency Correspondence and Band Subclasses..  | 2-21 |
| 15 | Table 2.1.6-2. CDMA Channel Number to CDMA Frequency Assignment                   |      |
| 16 | Correspondence for Band Class 5.....  | 2-22 |
| 17 | Table 2.1.6-3. CDMA Channel Numbers and Corresponding Frequencies for Band        |      |
| 18 | Class 5 and Spreading Rate 1 .....  | 2-23 |
| 19 | Table 2.1.6-4. CDMA Channel Numbers and Corresponding Frequencies for Band        |      |
| 20 | Class 5 and Spreading Rate 3 .....  | 2-24 |
| 21 | Table 2.1.6-5. CDMA Preferred Set of Frequency Assignments for Band Class 5 ..... | 2-25 |
| 22 | Table 2.1.6-6. Sync Channel Preferred Set of Frequency Assignments for Spreading  |      |
| 23 | Rate 3 for Band Class 5.....  | 2-26 |
| 24 | Table 2.1.7-1. CDMA Channel Number to CDMA Frequency Assignment                   |      |
| 25 | Correspondence for Band Class 6.....  | 2-27 |
| 26 | Table 2.1.7-2. CDMA Channel Numbers and Corresponding Frequencies for Band        |      |
| 27 | Class 6 and Spreading Rate 1 .....  | 2-27 |
| 28 | Table 2.1.7-3. CDMA Channel Numbers and Corresponding Frequencies for Band        |      |
| 29 | Class 6 and Spreading Rate 3 .....  | 2-27 |
| 30 | Table 2.1.7-4. CDMA Preferred Set of Frequency Assignments for Band Class 6 ..... | 2-28 |
| 31 | Table 2.1.8-1. Band Class 7 Block Frequency Correspondence .....                  | 2-29 |
| 32 | Table 2.1.8-2. CDMA Channel Number to CDMA Frequency Assignment                   |      |
| 33 | Correspondence for Band Class 7.....  | 2-29 |
| 34 | Table 2.1.8-3. CDMA Channel Numbers and Corresponding Frequencies for Band        |      |
| 35 | Class 7 and Spreading Rate 1 .....  | 2-29 |

**TABLES**

|    |  |      |
|----|--|------|
| 1  | Table 2.1.8-4. CDMA Channel Numbers and Corresponding Frequencies for Band         |      |
| 2  | Class 7 and Spreading Rate 3 .....   | 2-30 |
| 3  | Table 2.1.8-5. CDMA Preferred Set of Frequency Assignments for Band Class 7.....   | 2-30 |
| 4  | Table 2.1.8-6. Sync Channel Preferred Set of Frequency Assignments for Spreading   |      |
| 5  | Rate 3 for Band Class 7 .....  | 2-30 |
| 6  | Table 2.1.9-1. CDMA Channel Number to CDMA Frequency Assignment                    |      |
| 7  | Correspondence for Band Class 8 .....  | 2-31 |
| 8  | Table 2.1.9-2. CDMA Channel Numbers and Corresponding Frequencies for Band         |      |
| 9  | Class 8 and Spreading Rate 1 .....   | 2-32 |
| 10 | Table 2.1.9-3. CDMA Channel Numbers and Corresponding Frequencies for Band         |      |
| 11 | Class 8 and Spreading Rate 3 .....   | 2-32 |
| 12 | Table 2.1.9-4. CDMA Preferred Set of Frequency Assignments for Band Class 8.....   | 2-32 |
| 13 | Table 2.1.10-1. CDMA Channel Number to CDMA Frequency Assignment                   |      |
| 14 | Correspondence for Band Class 9 .....  | 2-33 |
| 15 | Table 2.1.10-2. CDMA Channel Numbers and Corresponding Frequencies for Band        |      |
| 16 | Class 9 and Spreading Rate 1 .....   | 2-33 |
| 17 | Table 2.1.10-3. CDMA Channel Numbers and Corresponding Frequencies for Band        |      |
| 18 | Class 9 and Spreading Rate 3 .....   | 2-34 |
| 19 | Table 2.1.10-4. CDMA Preferred Set of Frequency Assignments for Band Class 9.....  | 2-34 |
| 20 | Table 2.1.11-1. Band Class 10 System Frequency Correspondence .....                | 2-35 |
| 21 | Table 2.1.11-2. CDMA Channel Number to CDMA Frequency Assignment                   |      |
| 22 | Correspondence for Band Class 10 .....   | 2-35 |
| 23 | Table 2.1.11-3. CDMA Channel Numbers and Corresponding Frequencies for Band        |      |
| 24 | Class 10 and Spreading Rate 1 .....  | 2-36 |
| 25 | Table 2.1.11-4. CDMA Channel Numbers and Corresponding Frequencies for Band        |      |
| 26 | Class 10 and Spreading Rate 3 .....  | 2-37 |
| 27 | Table 2.1.11-5. CDMA Preferred Set of Frequency Assignments for Band Class 10..... | 2-37 |
| 28 | Table 2.1.11-6. Sync Channel Preferred Set of Frequency Assignments for Spreading  |      |
| 29 | Rate 3 for Band Class 10 .....   | 2-38 |
| 30 | Table 2.1.12-1. Band Class 11 Block Frequency Correspondence and Band              |      |
| 31 | Subclasses .....   | 2-39 |
| 32 | Table 2.1.12-2. CDMA Channel Number to CDMA Frequency Assignment                   |      |
| 33 | Correspondence for Band Class 11 .....   | 2-40 |
| 34 | Table 2.1.12-3. CDMA Channel Numbers and Corresponding Frequencies for Band        |      |
| 35 | Class 11 and Spreading Rate 1 .....  | 2-41 |
| 36 | Table 2.1.12-4. CDMA Channel Numbers and Corresponding Frequencies for Band        |      |
| 37 | Class 11 and Spreading Rate 3 .....  | 2-42 |

**TABLES**

|    |   |      |
|----|---|------|
| 1  | Table 2.1.12-5. CDMA Preferred Set of Frequency Assignments for Band Class 11 ..... | 2-43 |
| 2  | Table 2.1.12-6. Sync Channel Preferred Set of Frequency Assignments for Spreading   |      |
| 3  | Rate 3 for Band Class 11.....   | 2-43 |
| 4  | Table 2.1.13-1. Band Class 12 Block Frequency Correspondence and Band               |      |
| 5  | Subclasses .....  | 2-45 |
| 6  | Table 2.1.13-2. CDMA Channel Number to CDMA Frequency Assignment                    |      |
| 7  | Correspondence for Band Class 12.....   | 2-45 |
| 8  | Table 2.1.13-3. CDMA Channel Numbers and Corresponding Frequencies for Band         |      |
| 9  | Class 12 and Spreading Rate 1.....  | 2-45 |
| 10 | Table 2.1.13-4. CDMA Channel Numbers and Corresponding Frequencies for Band         |      |
| 11 | Class 12 and Spreading Rate 3.....  | 2-46 |
| 12 | Table 2.1.13-5. CDMA Preferred Set of Frequency Assignments for Band Class 12 ..... | 2-46 |
| 13 | Table 2.1.14-1. Band Class 13 Block Frequency Correspondence .....                  | 2-47 |
| 14 | Table 2.1.14-2. CDMA Channel Number to CDMA Frequency Assignment                    |      |
| 15 | Correspondence for Band Class 13.....   | 2-48 |
| 16 | Table 2.1.14-3. CDMA Channel Numbers and Corresponding Frequencies for Band         |      |
| 17 | Class 13 and Spreading Rate 1.....  | 2-49 |
| 18 | Table 2.1.14-4. CDMA Channel Numbers and Corresponding Frequencies for Band         |      |
| 19 | Class 13 and Spreading Rate 3.....  | 2-51 |
| 20 | Table 2.1.14-5. CDMA Preferred Set of Frequency Assignments for Band Class 13 ..... | 2-52 |
| 21 | Table 2.1.14-6. Sync Channel Preferred Frequency Assignments for Spreading Rate     |      |
| 22 | 3 for Band Class 13.....  | 2-53 |
| 23 | Table 2.1.15-1. Band Class 14 Block Frequency Correspondence .....                  | 2-54 |
| 24 | Table 2.1.15-2. CDMA Channel Number to CDMA Frequency Assignment                    |      |
| 25 | Correspondence for Band Class 14.....   | 2-55 |
| 26 | Table 2.1.15-3. CDMA Channel Numbers and Corresponding Frequencies for Band         |      |
| 27 | Class 14 and Spreading Rate 1.....  | 2-55 |
| 28 | Table 2.1.15-4. CDMA Channel Numbers and Corresponding Frequencies for Band         |      |
| 29 | Class 14 and Spreading Rate 3.....  | 2-56 |
| 30 | Table 2.1.15-5. CDMA Preferred Set of Frequency Assignments for Band Class 14 ..... | 2-57 |
| 31 | Table 2.1.15-6. Sync Channel Preferred Frequency Assignments for Spreading Rate     |      |
| 32 | 3 for Band Class 14.....  | 2-57 |
| 33 | Table 2.1.16-1. Band Class 15 Block Frequency Correspondence .....                  | 2-59 |
| 34 | Table 2.1.16-2. CDMA Channel Number to CDMA Frequency Assignment                    |      |
| 35 | Correspondence for Band Class 15.....   | 2-59 |



**TABLES**

|    |  |      |
|----|--|------|
| 1  | Table 2.1.16-3. CDMA Channel Numbers and Corresponding Frequencies for Band        |      |
| 2  | Class 15 and Spreading Rate 1 .....  | 2-60 |
| 3  | Table 2.1.16-4. CDMA Channel Numbers and Corresponding Frequencies for Band        |      |
| 4  | Class 15 and Spreading Rate 3 .....  | 2-61 |
| 5  | Table 2.1.16-5. CDMA Preferred Set of Frequency Assignments for Band Class 15..... | 2-62 |
| 6  | Table 2.1.16-6. Sync Channel Preferred Frequency Assignments for Spreading Rate    |      |
| 7  | 3 for Band Class 15 .....  | 2-62 |
| 8  | Table 2.1.17-1. Band Class 16 Block Frequency Correspondence.....                  | 2-63 |
| 9  | Table 2.1.17-2. CDMA Channel Number to CDMA Frequency Assignment                   |      |
| 10 | Correspondence for Band Class 16.....  | 2-64 |
| 11 | Table 2.1.17-3. CDMA Channel Numbers and Corresponding Frequencies for Band        |      |
| 12 | Class 16 and Spreading Rate 1 .....  | 2-64 |
| 13 | Table 2.1.17-4. CDMA Channel Numbers and Corresponding Frequencies for Band        |      |
| 14 | Class 16 and Spreading Rate 3 .....  | 2-64 |
| 15 | Table 2.1.17-5. CDMA Preferred Set of Frequency Assignments for Band Class 16..... | 2-66 |
| 16 | Table 2.1.17-6. Sync Channel Preferred Frequency Assignments for Spreading Rate    |      |
| 17 | 3 for Band Class 16 .....  | 2-66 |
| 18 | Table 2.3.1-1. Open Loop Power Offsets .....                                       | 2-67 |
| 19 | Table 2.3.1-2. Access Probe Open Loop Power on the Reverse Access Channel.....     | 2-68 |
| 20 | Table 2.3.1-3. Open Loop Output Power.....   | 2-68 |
| 21 | Table 3.1.1-1. Band Class 0 System Frequency Correspondence .....                  | 3-2  |
| 22 | Table 3.1.1-2. CDMA Channel Number to CDMA Frequency Assignment                    |      |
| 23 | Correspondence for Band Class 0.....   | 3-2  |
| 24 | Table 3.1.1-3. CDMA Channel Numbers and Corresponding Frequencies for Band         |      |
| 25 | Class 0 .....  | 3-3  |
| 26 | Table 3.1.2-1. Band Class 1 Block Frequency Correspondence .....                   | 3-4  |
| 27 | Table 3.1.2-2. CDMA Channel Number to CDMA Frequency Assignment                    |      |
| 28 | Correspondence for Band Class 1 .....  | 3-4  |
| 29 | Table 3.1.2-3. CDMA Channel Numbers and Corresponding Frequencies for Band         |      |
| 30 | Class 1 .....  | 3-5  |
| 31 | Table 3.1.3-1. Band Class 2 Block Frequency Correspondence .....                   | 3-6  |
| 32 | Table 3.1.3-2. Band Class 2 Band Subclasses.....                                   | 3-6  |
| 33 | Table 3.1.3-3. CDMA Channel Number to CDMA Frequency Assignment                    |      |
| 34 | Correspondence for Band Class 2.....   | 3-6  |
| 35 | Table 3.1.3-4. CDMA Channel Numbers and Corresponding Frequencies for Band         |      |
| 36 | Class 2 .....  | 3-7  |

**TABLES**

|    |  |      |
|----|--|------|
| 1  | Table 3.1.4-1. Band Class 3 System Frequency Correspondence.....                 | 3-8  |
| 2  | Table 3.1.4-2. CDMA Channel Number to CDMA Frequency Assignment                  |      |
| 3  | Correspondence for Band Class 3.....   | 3-8  |
| 4  | Table 3.1.4-3. CDMA Channel Numbers and Corresponding Frequencies for Band       |      |
| 5  | Class 3.....   | 3-9  |
| 6  | Table 3.1.5-1. Band Class 4 Block Frequency Correspondence .....                 | 3-10 |
| 7  | Table 3.1.5-2. CDMA Channel Number to CDMA Frequency Assignment                  |      |
| 8  | Correspondence for Band Class 4.....   | 3-10 |
| 9  | Table 3.1.5-3. CDMA Channel Numbers and Corresponding Frequencies for Band       |      |
| 10 | Class 4.....   | 3-10 |
| 11 | Table 3.1.6-1. Band Class 5 Block Frequency Correspondence and Band Subclasses.. | 3-11 |
| 12 | Table 3.1.6-2. CDMA Channel Number to CDMA Frequency Assignment                  |      |
| 13 | Correspondence for Band Class 5.....   | 3-12 |
| 14 | Table 3.1.6-3. CDMA Channel Numbers and Corresponding Frequencies for Band       |      |
| 15 | Class 5.....   | 3-13 |
| 16 | Table 3.1.7-1. CDMA Channel Number to CDMA Frequency Assignment                  |      |
| 17 | Correspondence for Band Class 6.....   | 3-14 |
| 18 | Table 3.1.7-2. CDMA Channel Numbers and Corresponding Frequencies for Band       |      |
| 19 | Class 6.....   | 3-14 |
| 20 | Table 3.1.8-1. Band Class 7 Block Frequency Correspondence .....                 | 3-15 |
| 21 | Table 3.1.8-2. CDMA Channel Number to CDMA Frequency Assignment                  |      |
| 22 | Correspondence for Band Class 7.....   | 3-15 |
| 23 | Table 3.1.8-3. CDMA Channel Numbers and Corresponding Frequencies for Band       |      |
| 24 | Class 7.....   | 3-16 |
| 25 | Table 3.1.9-1. CDMA Channel Number to CDMA Frequency Assignment                  |      |
| 26 | Correspondence for Band Class 8.....   | 3-16 |
| 27 | Table 3.1.9-2. CDMA Channel Numbers and Corresponding Frequencies for Band       |      |
| 28 | Class 8.....   | 3-17 |
| 29 | Table 3.1.10-1. CDMA Channel Number to CDMA Frequency Assignment                 |      |
| 30 | Correspondence for Band Class 9.....   | 3-17 |
| 31 | Table 3.1.10-2. CDMA Channel Numbers and Corresponding Frequencies for Band      |      |
| 32 | Class 9.....   | 3-18 |
| 33 | Table 3.1.11-1. Band Class 10 System Frequency Correspondence.....               | 3-18 |
| 34 | Table 3.1.11-2. CDMA Channel Number to CDMA Frequency Assignment                 |      |
| 35 | Correspondence for Band Class 10.....  | 3-19 |
| 36 | Table 3.1.11-3. CDMA Channel Numbers and Corresponding Frequencies for Band      |      |
| 37 | Class 10.....  | 3-19 |

**TABLES**

|    |   |      |
|----|---|------|
| 1  | Table 3.1.12-1. Band Class 11 Block Frequency Correspondence and Band       |      |
| 2  | Subclasses .....  | 3-20 |
| 3  | Table 3.1.12-2. CDMA Channel Number to CDMA Frequency Assignment            |      |
| 4  | Correspondence for Band Class 11 .....                                      | 3-21 |
| 5  | Table 3.1.12-3. CDMA Channel Numbers and Corresponding Frequencies for Band |      |
| 6  | Class 11 .....  | 3-22 |
| 7  | Table 3.1.13-1. Band Class 12 Block Frequency Correspondence and Band       |      |
| 8  | Subclasses .....  | 3-23 |
| 9  | Table 3.1.13-2. CDMA Channel Number to CDMA Frequency Assignment            |      |
| 10 | Correspondence for Band Class 12 .....                                      | 3-23 |
| 11 | Table 3.1.13-3. CDMA Channel Numbers and Corresponding Frequencies for Band |      |
| 12 | Class 12 .....  | 3-24 |
| 13 | Table 3.1.14-1. Band Class 13 Block Frequency Correspondence.....           | 3-25 |
| 14 | Table 3.1.14-2. CDMA Channel Number to CDMA Frequency Assignment            |      |
| 15 | Correspondence for Band Class 13 .....                                      | 3-25 |
| 16 | Table 3.1.14-3. CDMA Channel Numbers and Corresponding Frequencies for Band |      |
| 17 | Class 13 .....  | 3-26 |
| 18 | Table 3.1.15-1. Band Class 14 Block Frequency Correspondence.....           | 3-27 |
| 19 | Table 3.1.15-2. CDMA Channel Number to CDMA Frequency Assignment            |      |
| 20 | Correspondence for Band Class 14 .....                                      | 3-28 |
| 21 | Table 3.1.15-3. CDMA Channel Numbers and Corresponding Frequencies for Band |      |
| 22 | Class 14 .....  | 3-28 |
| 23 | Table 3.1.16-1. Band Class 15 Block Frequency Correspondence.....           | 3-29 |
| 24 | Table 3.1.16-2. CDMA Channel Number to CDMA Frequency Assignment            |      |
| 25 | Correspondence for Band Class 15 .....                                      | 3-29 |
| 26 | Table 3.1.16-3. CDMA Channel Numbers and Corresponding Frequencies for Band |      |
| 27 | Class 15 .....  | 3-30 |
| 28 | Table 3.1.17-1. Band Class 16 Block Frequency Correspondence.....           | 3-31 |
| 29 | Table 3.1.17-2. CDMA Channel Number to CDMA Frequency Assignment            |      |
| 30 | Correspondence for Band Class 16 .....                                      | 3-31 |
| 31 | Table 3.1.17-3. CDMA Channel Numbers and Corresponding Frequencies for Band |      |
| 32 | Class 16 .....  | 3-31 |
| 33 | Table 3.1.18-1. Band Class 17 Block Frequency Correspondence.....           | 3-32 |
| 34 | Table 3.1.18-2. CDMA Channel Number to CDMA Frequency Assignment            |      |
| 35 | Correspondence for Band Class 17 .....                                      | 3-32 |
| 36 | Table 3.1.18-3. CDMA Channel Numbers and Corresponding Frequencies for Band |      |
| 37 | Class 17 .....  | 3-32 |

**TABLES**

**FOREWORD****(This foreword is not part of this Standard)**1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11

This Standard was prepared by Technical Specification Group C of the Third Generation Partnership Project 2 (3GPP2). This Standard contains the band class specifications of the IMT-2000 CDMA Multi-Carrier Mode, IMT-2000 CDMA MC (also known as cdma2000<sup>®1</sup>). The IMT-2000 CDMA Multi-Carrier Mode consists of the base cdma2000 Standard [1] and the IMT-2000 CDMA High Rate Packet Data Air Interface [2].

Other specifications are required to complete the air interface and the rest of the system. Some of these specifications are listed in the References section.

Eighteen different operating bands have been specified. Equipment built to this Standard can be used in a band subject to allocation of the band and the rules and regulations of the country to which the allocated band has been assigned.

---

<sup>1</sup> cdma2000<sup>®</sup> is the trademark for the technical nomenclature for certain specifications and standards of the Organizational Partners (OPs) of 3GPP2. Geographically (and as of the date of publication), cdma2000<sup>®</sup> is a registered trademark of the Telecommunications Industry Association (TIA-USA) in the United States.

**FOREWORD**

- 1 No text.

**NOTES**

1 This volume defines the band classes of the CDMA Spreading Rate 1 and Spreading Rate 3  
2 multi-carrier air interface standard for [1], and all the band classes for [2]. This volume  
3 consists of the following sections:

4 **1. General.** This section defines the terms and numeric indications used in this document.  
5 This section also describes the tolerances used throughout the document.

6 **2. Requirements for Operation of [1].** This section describes the band classes for mobile  
7 stations and base stations complying with [1]. This section also describes the open loop  
8 output powers for the mobile stations operating in different band classes.

9 **3. Requirements for Operation of [2].** This section describes the band classes for access  
10 terminals and access networks complying with [2]. This section also describes the open  
11 loop output powers for the access terminals operating in different band classes.

## NOTES

- 1       1. Compatibility, as used in connection with this Standard, is understood to mean:  
2       Any mobile station is able to place and receive calls. Conversely all base stations are  
3       able to place and receive calls for any mobile station.
- 4       2. This compatibility Standard is based upon spectrum allocations that have been  
5       defined by various governmental administrations.
- 6       3. Standards [3], [4], [5], and [6] provide specifications and measurement methods for  
7       base stations and mobile stations.
- 8       4. Those wishing to deploy systems compliant with this standard should also take  
9       notice of the requirement to be compliant with the applicable rules and regulations  
10      of local administrations.
- 11      5. Those wishing to deploy systems compliant with this Standard should also take  
12      notice of the electromagnetic exposure criteria for the general public and for radio  
13      frequency carriers with low frequency amplitude modulation.
- 14      6. “Base station” refers to the functions performed on the land side, which are typically  
15      distributed among a cell, a sector of a cell, and a mobile switching center.
- 16      7. “Shall” and “shall not” identify requirements to be followed strictly to conform to the  
17      standard and from which no deviation is permitted. “Should” and “should not”  
18      indicate that one of several possibilities is recommended as particularly suitable,  
19      without mentioning or excluding others, that a certain course of action is preferred  
20      but not necessarily required, or that (in the negative form) a certain possibility or  
21      course of action is discouraged but not prohibited. “May” and “need not” indicate a  
22      course of action permissible within the limits of the standard. “Can” and “cannot”  
23      are used for statements of possibility and capability, whether material, physical, or  
24      causal.
- 25      8. Footnotes appear at various points in this Standard to elaborate and further clarify  
26      items discussed in the body of the Standard.
- 27      9. Unless indicated otherwise, this Standard presents numbers in decimal form.  
28      Binary numbers are distinguished in the text by the use of single quotation marks.



**REFERENCES**

1 The following standards contain provisions which, through reference in this text, constitute  
2 provisions of this Standard. At the time of publication, the editions indicated were valid. All  
3 standards are subject to revision, and parties to agreements based on this Standard are  
4 encouraged to investigate the possibility of applying the most recent editions of the  
5 standards indicated below.

6

1. C.S0002-D-1, *Physical Layer Standard for cdma2000 Spread Spectrum Systems*, September 2005.
2. C.S0024-A, *cdma2000 High Rate Packet Data Air Interface*, March 2004.
3. C.S0010-C v1.0, *Recommended Minimum Performance Standards for cdma2000 Spread Spectrum Base Stations*, February 2005.
4. C.S0011-C v1.0, *Recommended Minimum Performance Standards for cdma2000 Spread Spectrum Mobile Stations*, February 2005.
5. C.S0032-0 v2.0, *Recommended Minimum Performance Standards for cdma2000 High Rate Packet Data Access Network Equipment*, January 2004.
6. C.S0033-0 v2.0, *Recommended Minimum Performance Standards for cdma2000 High Rate Packet Data Access Terminal*, January 2004.
7. C.S0016, *Over-the-Air Service Provisioning of Mobile Stations in Spread Spectrum Standards*, November 2004.
8. C.R1001-E, *Administration of Parameter Value Assignments for cdma2000 Spread Spectrum Standards*, September 2005.
9. C.S0005-D-1, *Upper Layer (Layer 3) Signaling Standard for cdma2000 Spread Spectrum Systems*, September 2005.
10. C.S0024-B, *cdma2000 High Rate Packet Data Air Interface*, April 2006.

## REFERENCES

- 1 No text.

## 1 GENERAL

### 1.1 Terms

**Access Channel.** A Reverse CDMA Channel used by mobile stations for communicating to the base station. The Access Channel is used for short signaling message exchanges, such as call originations, responses to pages, and registrations. The Access Channel is a slotted random access channel.

**Access Network.** The network equipment providing data connectivity between a packet switched data network (typically the Internet) and the access terminals. An access network is equivalent to a base station in [1].

**Access Probe.** One Access Channel transmission consisting of a preamble and a message. The transmission is an integer number of frames in length and transmits one Access Channel message. See also Access Probe Sequence.

**Access Terminal.** A device providing data connectivity to a user. An access terminal may be connected to a computing device such as a laptop personal computer or it may be a self-contained data device such as a personal digital assistant. An access terminal is equivalent to a mobile station in [1].

**Band Class.** A set of frequency channels and a numbering scheme for these channels.

**Band Subclass.** A set of frequency channels and a numbering scheme for these channels representing a subset of Band Class frequency coverage requirements.

**Base Station.** A fixed station used for communicating with mobile stations. Depending upon the context, the term base station may refer to a cell, a sector within a cell, an MSC, or other part of the wireless system. See also MSC.

**CDMA.** See Code Division Multiple Access.

**CDMA Cellular System.** The entire system supporting Domestic Public Cellular Service operation as embraced by this Standard.

**CDMA Channel.** The set of channels transmitted between the base station and the mobile stations within a given CDMA frequency assignment.

**CDMA Channel Number.** An 11-bit number corresponding to the center of the CDMA frequency assignment.

**CDMA Frequency Assignment.** A 1.23 or 3.69 MHz segment of spectrum. The center of a CDMA frequency assignment is given by a CDMA Channel Number.

**CDMA Preferred Set.** The set of CDMA channel numbers in a CDMA system corresponding to frequency assignments that a mobile station will normally search to acquire a CDMA Pilot Channel. For CDMA cellular systems, the primary and secondary channels comprise the CDMA Preferred Set.

**Chip Rate.** Equivalent to the spreading rate of the channel. It is either 1.2288 Mcps or 3.6864 Mcps.

- 1 **Code Division Multiple Access (CDMA).** A technique for spread-spectrum multiple-access  
2 digital communications that creates channels through the use of unique code sequences.
- 3 **Enhanced Access Channel.** A reverse channel used by the mobile for communicating to  
4 the base station. The Enhanced Access Channel operates in the Basic Access Mode and the  
5 Reservation Access Mode. It is used for transmission of short messages, such as signaling,  
6 MAC messages, response to pages, and call originations. It can also be used to transmit  
7 moderate-sized data packets.
- 8 **GHz.** Gigahertz ( $10^9$  Hertz).
- 9 **MC.** See Multi-Carrier.
- 10 **Mcps.** Megachips per second ( $10^6$  chips per second).
- 11 **Mean Output Power.** The total transmitted calorimetric power measured in a specified  
12 bandwidth at the antenna connector when the transmitter is active.
- 13 **MHz.** Megahertz ( $10^6$  Hertz).
- 14 **Mobile Station.** A station that communicates with the base station.
- 15 **Multi-Carrier.** A CDMA mode in the International Telecommunications Union IMT-2000  
16 family of standards. The mode uses  $N$  ( $N \geq 1$ ) adjacent 1.2288 Mcps direct-sequence spread  
17 RF carriers on the Forward CDMA Channel and a single direct-sequence spread RF carrier  
18 on the Reverse CDMA Channel.
- 19 **PCS.** See Personal Communications Services.
- 20 **PCS System.** See Personal Communications Services System.
- 21 **Personal Communications Services System.** A configuration of equipment that provides  
22 PCS radiotelephone services.
- 23 **Personal Communications Services (PCS).** A family of mobile and portable radio  
24 communications services for individuals and businesses that may be integrated with a  
25 variety of competing networks. Broadcasting is prohibited and fixed operations are to be  
26 ancillary to mobile operations.
- 27 **Physical Layer.** The part of the communication protocol between the mobile station and  
28 the base station that is responsible for the transmission and reception of data. The physical  
29 layer in the transmitting station is presented a frame and transforms it into an over-the-air  
30 waveform. The physical layer in the receiving station transforms the waveform back into a  
31 frame.
- 32 **Primary CDMA Channel.** A pre-assigned channel in a CDMA Cellular System for  
33 Spreading Rate 1 used by the mobile station for initial acquisition. See also Secondary  
34 CDMA Channel.
- 35 **Radio Configuration.** A set of Forward Traffic Channel and Reverse Traffic Channel  
36 transmission formats that are characterized by physical layer parameters such as data  
37 rates, modulation characteristics, and spreading rate.
- 38 **RC.** See Radio Configuration.

1 **Reservation Access Mode.** A mode used on the Enhanced Access Channel and Reverse  
2 Common Control Channel where a mobile station transmits an Enhanced Access preamble  
3 and an Enhanced Access header in the Enhanced Access probe. The Enhanced Access data  
4 is transmitted on a Reverse Common Control Channel using closed loop power control.

5 **Reverse Common Control Channel.** A portion of a Reverse CDMA Channel used for the  
6 transmission of digital control information from one or more mobile stations to a base  
7 station. The Reverse Common Control Channel can operate in the Reservation Access  
8 Mode. It can be power controlled and may support soft handoff.

9 **Reverse Fundamental Channel.** A portion of a Reverse Traffic Channel which carries  
10 higher-level data and control information from a mobile station to a base station.

11 **Reverse Supplemental Channel.** A portion of a Radio Configuration 3 through 6 Reverse  
12 Traffic Channel which operates in conjunction with the Reverse Fundamental Channel or  
13 the Reverse Dedicated Control Channel in that Reverse Traffic Channel to provide higher  
14 data rate services, and on which higher-level data is transmitted.

15 **Reverse Supplemental Code Channel.** A portion of a Radio Configuration 1 and 2 Reverse  
16 Traffic Channel which operates in conjunction with the Reverse Fundamental Channel in  
17 that Reverse Traffic Channel, and (optionally) with other Reverse Supplemental Code  
18 Channels to provide higher data rate services, and on which higher-level data is  
19 transmitted.

20 **Reverse Traffic Channel.** A traffic channel on which data and signaling are transmitted  
21 from a mobile station to a base station. For Radio Configurations 1 and 2, the Reverse  
22 Traffic Channel is composed of a Reverse Fundamental Channel and up to seven Reverse  
23 Supplemental Code Channels. For Radio Configurations 3 through 6, the Reverse Traffic  
24 Channel is composed of a Reverse Fundamental Channel, a Reverse Dedicated Control  
25 Channel, or both and up to two Reverse Supplemental Channels.

26 **Secondary CDMA Channel.** A pre-assigned channel in a CDMA Cellular System for  
27 Spreading Rate 1 used by the mobile station for initial acquisition. See also Primary CDMA  
28 Channel.

29 **Serving Frequency.** The CDMA frequency on which a mobile station is currently  
30 communicating with one or more base stations.

31 **Spreading Rate.** The PN chip rate of the Forward CDMA Channel or the Reverse CDMA  
32 Channel, defined as a multiple of 1.2288 Mcps.

33 **Spreading Rate 1.** Spreading Rate 1 is often referred to as "1X." A Spreading Rate 1  
34 Forward CDMA Channel uses a single direct-sequence spread carrier with a chip rate of  
35 1.2288 Mcps. A Spreading Rate 1 Reverse CDMA Channel uses a single direct-sequence  
36 spread carrier with a chip rate of 1.2288 Mcps.

37 **Spreading Rate 3.** Spreading Rate 3 is often referred to as "3X." A Spreading Rate 3  
38 Forward CDMA Channel uses three direct-sequence spread carriers (see Multiple-Carrier  
39 Forward Channel) each with a chip rate of 1.2288 Mcps. A Spreading Rate 3 Reverse CDMA  
40 Channel uses a single direct-sequence spread carrier with a chip rate of 3.6864 Mcps.

41 **SR.** See Spreading Rate.

1 **Sync Channel.** A code channel in the Forward CDMA Channel which transports the  
2 synchronization message to the mobile station.

### 3 **1.2 Numeric Information**

#### 4 1.2.1 Mobile Station Stored Parameters

5 **1XRL\_FREQ\_OFFSET<sub>s</sub>** – A 2-bit parameter indicating the offset between the Reverse Link  
6 carrier frequency and the Forward Link carrier frequency when a Reverse Traffic Channel  
7 with Radio Configuration 3 or 4 is used with a Forward Traffic Channel with Radio  
8 Configuration 6, 7, 8, or 9.

9 **CDMACH<sub>s</sub>** – CDMA Channel number. The CDMA Channel number currently used by the  
10 mobile station.

11 **EACH\_INIT\_PWR<sub>s</sub>** – Initial power offset for the Enhanced Access Channel.

12 **EACH\_PWR\_STEP<sub>s</sub>** – Power increment for successive Enhanced Access probes on the  
13 Enhanced Access Channel, in units of 1.0 dB.

14 **INIT\_PWR<sub>s</sub>** – Initial power offset for Access Channel probes.

15 **NOM\_PWR<sub>s</sub>** – Nominal transmit power offset. A correction factor to be used by mobile  
16 stations in the open loop power estimate, initially applied on the Access Channel.

17 **NOM\_PWR\_EXT<sub>s</sub>** – Extended nominal transmit power offset. A correction factor to be used  
18 by mobile stations in the open loop power estimate.

19 **PWR\_STEP<sub>s</sub>** – Power increment for successive Access probes on the Access Channel, in  
20 units of 1.0 dB.

21 **RCCCH\_INIT\_PWR<sub>s</sub>** – Initial power offset for the Reverse Common Control Channel.

22 **RCCCH\_NOM\_PWR<sub>s</sub>** – Nominal transmit power offset. A correction factor to be used by  
23 mobile stations in the open loop power estimate, initially applied on the Reverse Common  
24 Control Channel.

25 **RLGAIN\_ADJ<sub>s</sub>** – Gain adjustment applied to the Traffic Channel output power relative to  
26 the transmission power on the Access Channel, the Enhanced Access Channel, or the  
27 Reverse Common Control Channel.

28 **RTC\_NOM\_PWR<sub>s</sub>** – Reverse Traffic Channel Nominal Power. The nominal power to be used  
29 by the mobile station for its initial transmission if the mobile station does not use the  
30 Access Channel, the Enhanced Access Channel, or the Reverse Common Control Channel.

### 31 **1.3 Tolerances**

32 Unless otherwise specified, all values indicated are exact unless an explicit tolerance is  
33 stated. Also refer to [3], [4], [5], and [6].

#### 1.4 System Selection Code

Table 1.4-1 lists the band class values and the system selection codes for the various band classes. See [7] (for Code) and [8] (for band class value and related standards) for more details.<sup>2</sup>

**Table 1.4-1: System Selection Codes**

| <b>Selected System</b> | <b>Band Class Value (Binary)</b> | <b>Code</b> |
|------------------------|----------------------------------|-------------|
| Band Class 0, A-Band   | 00000                            | 00          |
| Band Class 0, B-Band   | 00000                            | 01          |
| Band Class 1, A Block  | 00001                            | 02          |
| Band Class 1, B Block  | 00001                            | 03          |
| Band Class 1, C Block  | 00001                            | 04          |
| Band Class 1, D Block  | 00001                            | 05          |
| Band Class 1, E Block  | 00001                            | 06          |
| Band Class 1, F Block  | 00001                            | 07          |
| Band Class 2, A-Band   | 00010                            | 08          |
| Band Class 2, B-Band   | 00010                            | 09          |
| Band Class 3, A-Band   | 00011                            | 10          |
| Band Class 3, B-Band   | 00011                            | 11          |
| Band Class 4, A-Band   | 00100                            | 12          |
| Band Class 4, B-Band   | 00100                            | 13          |
| Band Class 4, C-Band   | 00100                            | 14          |
| Band Class 5, A-Band   | 00101                            | 15          |
| Band Class 5, B-Band   | 00101                            | 16          |
| Band Class 5, C-Band   | 00101                            | 17          |
| Band Class 5, D-Band   | 00101                            | 18          |
| Band Class 5, E-Band   | 00101                            | 19          |
| Band Class 5, F-Band   | 00101                            | 20          |
| Band Class 5, G-Band   | 00101                            | 21          |

<sup>2</sup> Re-use of Codes 02 through 07 is permissible because the Band Class 14 A-Block through F-Block are exactly the same spectrum allocation as the Band Class 1 A-Block through F-Block.

| <b>Selected System</b> | <b>Band Class Value (Binary)</b> | <b>Code</b> |
|------------------------|----------------------------------|-------------|
| Band Class 5, H-Band   | 00101                            | 22          |
| Band Class 6           | 00110                            | 23          |
| Band Class 7, A-Band   | 00111                            | 24          |
| Band Class 7, B-Band   | 00111                            | 25          |
| Band Class 7, C-Band   | 00111                            | 26          |
| Band Class 7, D-Band   | 00111                            | 27          |
| Band Class 8           | 01000                            | 28          |
| Band Class 9           | 01001                            | 29          |
| Band Class 10, A-Band  | 01010                            | 30          |
| Band Class 10, B-Band  | 01010                            | 31          |
| Band Class 10, C-Band  | 01010                            | 32          |
| Band Class 10, D-Band  | 01010                            | 33          |
| Band Class 10, E-Band  | 01010                            | 34          |
| Band Class 11, A-Band  | 01011                            | 35          |
| Band Class 11, B-Band  | 01011                            | 36          |
| Band Class 11, C-Band  | 01011                            | 37          |
| Band Class 11, D-Band  | 01011                            | 38          |
| Band Class 11, E-Band  | 01011                            | 39          |
| Band Class 11, F-Band  | 01011                            | 40          |
| Band Class 12, A-Band  | 01100                            | 41          |
| Band Class 12, B-Band  | 01100                            | 42          |
| Band Class 13, A-Band  | 01101                            | 43          |
| Band Class 13, B-Band  | 01101                            | 44          |
| Band Class 13, C-Band  | 01101                            | 45          |
| Band Class 13, D-Band  | 01101                            | 46          |
| Band Class 13, E-Band  | 01101                            | 47          |
| Band Class 13, F-Band  | 01101                            | 48          |
| Band Class 13, G-Band  | 01101                            | 49          |
| Band Class 13, H-Band  | 01101                            | 50          |
| Band Class 13, I-Band  | 01101                            | 51          |



| <b>Selected System</b> | <b>Band Class Value (Binary)</b> | <b>Code</b>   |
|------------------------|----------------------------------|---------------|
| Band Class 13, J-Band  | 01101                            | 52            |
| Band Class 13, K-Band  | 01101                            | 53            |
| Band Class 13, L-Band  | 01101                            | 54            |
| Band Class 13, M-Band  | 01101                            | 55            |
| Band Class 13, N-Band  | 01101                            | 56            |
| Band Class 14, A-Block | 01110                            | 02            |
| Band Class 14, B-Block | 01110                            | 03            |
| Band Class 14, C-Block | 01110                            | 04            |
| Band Class 14, D-Block | 01110                            | 05            |
| Band Class 14, E-Block | 01110                            | 06            |
| Band Class 14, F-Block | 01110                            | 07            |
| Band Class 14, G-Block | 01110                            | 57            |
| Band Class 15, A-Band  | 01111                            | 58            |
| Band Class 15, B-Band  | 01111                            | 59            |
| Band Class 15, C-Band  | 01111                            | 60            |
| Band Class 15, D-Band  | 01111                            | 61            |
| Band Class 15, E-Band  | 01111                            | 62            |
| Band Class 15, F-Band  | 01111                            | 63            |
| Band Class 16, A-Band  | 10000                            | 64            |
| Band Class 16, B-Band  | 10000                            | 65            |
| Band Class 16, C-Band  | 10000                            | 66            |
| Band Class 16, D-Band  | 10000                            | 67            |
| Reserved               | 10001-11111                      | 68 through 99 |

1

## 2 **1.5 List of Band Classes**

3 Table 1.5-1 lists the band classes defined in this specification. The band classes are listed  
4 in the order that they are used in the band class information record bit-map of [9].

1

**Table 1.5-1: Band Class List**

| <b>Subfield (see [9])</b> | <b>Subfield Description</b>      |
|---------------------------|----------------------------------|
| BAND_CLASS_0              | 800 MHz cellular band            |
| BAND_CLASS_1              | 1.8 to 2.0 GHz PCS band          |
| BAND_CLASS_2              | 872 to 960 MHz TACS band         |
| BAND_CLASS_3              | 832 to 925 MHz JTACS band        |
| BAND_CLASS_4              | 1.75 to 1.87 GHz Korean PCS band |
| BAND_CLASS_5              | 450 MHz NMT band                 |
| BAND_CLASS_6              | 2 GHz IMT-2000 band              |
| BAND_CLASS_7              | 700 MHz band                     |
| BAND_CLASS_8              | 1800 MHz band                    |
| BAND_CLASS_9              | 900 MHz band                     |
| BAND_CLASS_10             | Secondary 800 MHz band           |
| BAND_CLASS_11             | 400 MHz European PAMR band       |
| BAND_CLASS_12             | 800 MHz PAMR band                |
| BAND_CLASS_13             | 2.5 GHz IMT-2000 Extension Band  |
| BAND_CLASS_14             | US PCS 1.9GHz Band               |
| BAND_CLASS_15             | AWS Band                         |
| BAND_CLASS_16             | US 2.5GHz Band                   |
| BAND_CLASS_17             | US 2.5GHz Forward Link Only Band |

2

## 2 REQUIREMENTS FOR THE OPERATION OF THE “*PHYSICAL LAYER STANDARD FOR CDMA2000 SPREAD SPECTRUM SYSTEMS*”

This section defines requirements and operation for both the mobile station and the base station that are specific to cdma2000 equipment that conforms to [1]. A CDMA mobile station or base station may support operation in one or more band classes and spreading rates.

### 2.1 Channel Spacing and Designation

This section specifies the frequency parameters of the CDMA equipment conforming to [1] that support CDMA operation. Note that CDMA equipment in this section could be interpreted to mean a base station, a mobile station, or both.

#### 2.1.1 Band Class 0 (800 MHz Band)

The Band Class 0 system designators for the CDMA equipment shall be as specified in Table 2.1.1-1. There are four band subclasses specified for Band Class 0. CDMA equipments supporting Band Class 0 shall support at least one band subclass belonging to Band Class 0. CDMA equipments supporting Band Class 0 shall be capable of transmitting in Band Class 0.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 0 shall be as specified in Table 2.1.1-2. CDMA equipments supporting Band Class 0 and Spreading Rate 1 shall support transmission on the valid channel numbers shown in Table 2.1.1-3.<sup>3</sup> CDMA equipments supporting Band Class 0 and Spreading Rate 3 shall support transmission on the valid channel numbers shown in Table 2.1.1-4.<sup>4</sup>

Channel numbers for the Primary CDMA Channels and the Secondary CDMA Channels are given in Table 2.1.1-5.

A preferred set of Sync Channel frequency assignments for the multi-carrier mode is given in Table 2.1.1-6.

If the mobile station uses Spreading Rate 1 or Spreading Rate 3 for both Forward and Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  $CDMACH_s$ . If the mobile station uses Spreading Rate 3 for the Forward Traffic Channel and uses Spreading Rate 1 for the Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  $CDMACH_s - 41$  if  $1XRL\_FREQ\_OFFSET_s$  equals ‘00’, on the CDMA Channel designated by  $CDMACH_s$  if  $1XRL\_FREQ\_OFFSET_s$  equals ‘01’, or on the CDMA Channel designated by  $CDMACH_s + 41$  if  $1XRL\_FREQ\_OFFSET_s$  equals ‘10’.

---

<sup>3</sup> Note that the Korean Cellular Band uses Band Subclass 1 and has additional valid channels that a Band Class 0 mobile station should support to permit roaming to Korea.

<sup>4</sup> Note that the Korean Cellular Band uses Band Subclass 1 and has additional valid channels that a Band Class 0 mobile station should support to permit roaming to Korea.

1 If the mobile station is transmitting and receiving using the same spreading rate, the  
 2 nominal mobile station transmit carrier frequency shall be 45.0 MHz lower than the  
 3 frequency of the base station transmit signal as measured at the mobile station receiver. If  
 4 the mobile station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3,  
 5 the nominal mobile station transmit carrier frequency shall be  $45.0 - 1.23 \times$   
 6  $(1XRL\_FREQ\_OFFSET_s - 1)$  MHz lower than the carrier frequency of the center CDMA  
 7 channel transmitted by the base station as measured at the mobile station receiver.

8 At the base station, if a Band Class 0 carrier operates with Spreading Rate 3, then all three  
 9 carriers shall be separated by 41 CDMA Channels (1.23 MHz separation).

11 **Table 2.1.1-1. Band Class 0 System Frequency Correspondence**

| System Designator | Band Subclass   | Transmit Frequency Band (MHz) |                 |
|-------------------|-----------------|-------------------------------|-----------------|
|                   |                 | Mobile Station                | Base Station    |
| A                 | 0               | 824.025–835.005               | 869.025–880.005 |
|                   |                 | 844.995–846.495               | 889.995–891.495 |
|                   | 1               | 824.025–835.005               | 869.025–880.005 |
|                   |                 | 844.995–848.985               | 889.995–893.985 |
| 2                 | 824.025–829.995 | 869.025–874.995               |                 |
|                   | 3               | 815.025–829.995               | 860.025–874.995 |
| B                 | 0               | 835.005–844.995               | 880.005–889.995 |
|                   |                 | 846.495–848.985               | 891.495–893.985 |
|                   | 1               | 835.005–844.995               | 880.005–889.995 |

12  
 13 **Table 2.1.1-2. CDMA Channel Number to CDMA Frequency**  
 14 **Assignment Correspondence for Band Class 0**

| Transmitter    | CDMA Channel Number     | Center Frequency for CDMA Channel (MHz) |
|----------------|-------------------------|---|
| Mobile Station | $1 \leq N \leq 799$     | $0.030 N + 825.000$                     |
|                | $991 \leq N \leq 1023$  | $0.030 (N - 1023) + 825.000$            |
|                | $1024 \leq N \leq 1323$ | $0.030 (N - 1024) + 815.040$            |
| Base Station   | $1 \leq N \leq 799$     | $0.030 N + 870.000$                     |
|                | $991 \leq N \leq 1023$  | $0.030 (N - 1023) + 870.000$            |
|                | $1024 \leq N \leq 1323$ | $0.030 (N - 1024) + 860.040$            |

**Table 2.1.1-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 0 and Spreading Rate 1**

| Band Subclass | System Designator | CDMA Channel Validity           | CDMA Channel Number           | Transmit Frequency Band (MHz)                         |   |
|---------------|-------------------|---------------------------------|-------------------------------|---|---|
|               |                   |                                 |                               | Mobile Station  | Base Station  |
| 0             | A''<br>(1 MHz)    | Not Valid<br>Valid              | 991-1012<br>1013-1023         | 824.040-824.670<br>824.700-825.000                    | 869.040-869.670<br>869.700-870.000                    |
|               | A<br>(10 MHz)     | Valid<br>Not Valid              | 1-311<br>312-333              | 825.030-834.330<br>834.360-834.990                    | 870.030-879.330<br>879.360-879.990                    |
|               | B<br>(10 MHz)     | Not Valid<br>Valid<br>Not Valid | 334-355<br>356-644<br>645-666 | 835.020-835.650<br>835.680-844.320<br>844.350-844.980 | 880.020-880.650<br>880.680-889.320<br>889.350-889.980 |
|               | A'<br>(1.5 MHz)   | Not Valid<br>Valid<br>Not Valid | 667-688<br>689-694<br>695-716 | 845.010-845.640<br>845.670-845.820<br>845.850-846.480 | 890.010-890.640<br>890.670-890.820<br>890.850-891.480 |
|               | B'<br>(2.5 MHz)   | Not Valid<br>Valid<br>Not Valid | 717-738<br>739-777<br>778-799 | 846.510-847.140<br>847.170-848.310<br>848.340-848.970 | 891.510-892.140<br>892.170-893.310<br>893.340-893.970 |
| 1             | A''<br>(1 MHz)    | Not Valid<br>Valid              | 991-1012<br>1013-1023         | 824.040-824.670<br>824.700-825.000                    | 869.040-869.670<br>869.700-870.000                    |
|               | A<br>(10 MHz)     | Valid<br>Not Valid              | 1-311<br>312-333              | 825.030-834.330<br>834.360-834.990                    | 870.030-879.330<br>879.360-879.990                    |
|               | B<br>(10 MHz)     | Not Valid<br>Valid<br>Not Valid | 334-355<br>356-644<br>645-666 | 835.020-835.650<br>835.680-844.320<br>844.350-844.980 | 880.020-880.650<br>880.680-889.320<br>889.350-889.980 |
|               | A'<br>(1.5 MHz)   | Not Valid<br>Valid              | 667-688<br>689-716            | 845.010-845.640<br>845.670-846.480                    | 890.010-890.640<br>890.670-891.480                    |
|               | A'''<br>(2.5 MHz) | Valid<br>Not Valid              | 717-779<br>780-799            | 846.510-848.370<br>848.400-848.970                    | 891.510-893.370<br>893.400-893.970                    |
| 2             | A''<br>(1 MHz)    | Valid                           | 991-1023                      | 824.040-825.000                                       | 869.040-870.000                                       |
|               | A (5 MHz)         | Valid<br>Not Valid              | 1-142<br>143-166              | 825.030-829.260<br>829.290-829.980                    | 870.030-874.260<br>874.290-874.980                    |
| 3             | A''''<br>(9 MHz)  | Not Valid<br>Valid              | 1024-1047<br>1048-1323        | 815.040-815.730<br>815.760-824.010                    | 860.040-860.730<br>860.760-869.010                    |
|               | A''<br>(1 MHz)    | Valid                           | 991-1023                      | 824.040-825.000                                       | 869.040-870.000                                       |
|               | A (5 MHz)         | Valid<br>Not Valid              | 1-142<br>143-166              | 825.030-829.260<br>829.290-829.980                    | 870.030-874.260<br>874.290-874.980                    |

1  
2  
3**Table 2.1.1-4. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 0 and Spreading Rate 3**

| Band Subclass     | System Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                 |
|-------------------|-------------------|-----------------------|---------------------|-------------------------------|-----------------|
|                   |                   |                       |                     | Mobile Station                | Base Station    |
| 0                 | A''<br>(1 MHz)    | Not Valid             | 991-1023            | 824.040-825.000               | 869.040-870.000 |
|                   | A<br>(10 MHz)     | Not Valid             | 1-36                | 825.030-826.080               | 870.030-871.080 |
|                   |                   | Valid                 | 37-262              | 826.110-832.860               | 871.110-877.860 |
|                   |                   | Not Valid             | 263-333             | 832.890-834.990               | 877.890-879.990 |
|                   | B<br>(10 MHz)     | Not Valid             | 334-404             | 835.020-837.120               | 880.020-882.120 |
| Valid             |                   | 405-595               | 837.150-842.850     | 882.150-887.850               |                 |
| Not Valid         |                   | 596-666               | 842.880-844.980     | 887.880-889.980               |                 |
| A'<br>(1.5 MHz)   | Not Valid         | 667-716               | 845.010-846.480     | 890.010-891.480               |                 |
| B'<br>(2.5 MHz)   | Not Valid         | 717-799               | 846.510-848.970     | 891.510-893.970               |                 |
| 1                 | A''<br>(1 MHz)    | Not Valid             | 991-1023            | 824.040-825.000               | 869.040-870.000 |
|                   | A<br>(10 MHz)     | Not Valid             | 1-36                | 825.030-826.080               | 870.030-871.080 |
|                   |                   | Valid                 | 37-262              | 826.110-832.860               | 871.110-877.860 |
|                   |                   | Not Valid             | 263-333             | 832.890-834.990               | 877.890-879.990 |
|                   | B<br>(10 MHz)     | Not Valid             | 334-403             | 835.020-837.090               | 880.020-882.090 |
| Valid             |                   | 404-595               | 837.120-842.850     | 882.120-887.850               |                 |
| Not Valid         |                   | 596-666               | 842.880-844.980     | 887.880-889.980               |                 |
| A'<br>(1.5 MHz)   | Not Valid         | 667-716               | 845.010-846.480     | 890.010-891.480               |                 |
| A'''<br>(2.5 MHz) | Not Valid         | 717-737               | 846.510-847.110     | 891.510-892.110               |                 |
|                   | Valid             | 738                   | 847.140             | 892.140                       |                 |
|                   | Not Valid         | 739-799               | 847.170-848.970     | 892.170-893.970               |                 |
| 2                 | Not Specified     | Not Specified         | Not Specified       | Not Specified                 | Not Specified   |
| 3                 | Not Specified     | Not Specified         | Not Specified       | Not Specified                 | Not Specified   |

4

1 **Table 2.1.1-5. CDMA Preferred Set of Frequency Assignments for Band Class 0**

| Band Subclass | System Designator | Spreading Rate | Preferred Set Channel Numbers                |
|---------------|-------------------|----------------|--|
| 0             | A                 | 1              | 283 (Primary) and 691 (Secondary)            |
|               |                   | 3              | 37, 78, 119, 160, 201, 242 <sup>5</sup>      |
|               | B                 | 1              | 384 (Primary) and 777 (Secondary)            |
|               |                   | 3              | 425 <sup>3</sup> , 466, 507, 548, 589        |
| 1             | A                 | 1              | 779 (Primary) and 738 (Secondary)            |
|               |                   | 3              | 37, 78, 119, 160, 201, 242, 738 <sup>6</sup> |
|               | B                 | 1              | 486 (Primary) and 568 (Secondary)            |
|               |                   | 3              | 404, 445, 486, 527, 568 <sup>4</sup>         |
| 2             | A                 | 1              | 40 (Primary) and 1022 (Secondary)            |
|               |                   | 3              | Not Specified                                |
| 3             | A                 | 1              | 1273 (Primary) and 40 (Secondary)            |
|               |                   | 3              | Not Specified                                |

2  
3  
4 **Table 2.1.1-6. Sync Channel Preferred Set of Frequency Assignments for Spreading Rate 3 for Band Class 0**

| Band Subclass | System Designator | Preferred Set of Channel Numbers |
|---------------|-------------------|----------------------------------|
| 0             | A                 | 37, 160, 283                     |
|               | B                 | 384, 507, 630                    |
| 1             | A                 | 37, 160, 283, 779                |
|               | B                 | 363, 486, 609                    |
| 2             | A                 | Not Specified                    |
| 3             | A                 | Not Specified                    |

5 The use of preferred channel numbers 242 or 425 for Spreading Rate 3 ensures that overlaid multi-channel Forward Link systems with 1.23 MHz inter-channel spacing will contain a Spreading Rate 1 Forward CDMA Channel that aligns with one of the Spreading Rate 1 preferred channel numbers.

6 The use of preferred channel numbers 738, 445, 486, 527, or 568 for Spreading Rate 3 ensures that overlaid multi-channel Forward Link systems with 1.23 MHz inter-channel spacing will contain a Spreading Rate 1 Forward CDMA Channel that aligns with one of the Spreading Rate 1 preferred channel numbers.

## 1 2.1.2 Band Class 1 (1900 MHz Band)

2 The Band Class 1 block designators for the CDMA equipment shall be as specified in Table  
3 2.1.2-1. CDMA equipments supporting Band Class 1 shall be capable of transmitting in  
4 Band Class 1.

5 The channel spacing, CDMA channel designations, and transmitter center frequencies of  
6 Band Class 1 shall be as specified in Table 2.1.2-2. CDMA equipments supporting Band  
7 Class 1 and Spreading Rate 1 shall support transmission on the valid and conditionally  
8 valid channel numbers shown in Table 2.1.2-3. CDMA equipments supporting Band Class  
9 1 and Spreading Rate 3 shall support transmission on the valid and conditionally valid  
10 channel numbers shown in Table 2.1.2-4. Note that certain channel assignments are not  
11 valid and others are conditionally valid. Transmission on conditionally valid channels is  
12 permissible if the adjacent block is allocated to the same licensee or if other valid  
13 authorization has been obtained.

14 A preferred set of CDMA frequency assignments is given in Table 2.1.2-5.

15 A preferred set of Sync Channel frequency assignments for the multi-carrier mode is given  
16 in Table 2.1.2-6.

17 If the mobile station uses Spreading Rate 1 or Spreading Rate 3 for both Forward and  
18 Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA  
19 Channel designated by  $CDMACH_s$ . If the mobile station uses Spreading Rate 3 for the  
20 Forward Traffic Channel and uses Spreading Rate 1 for the Reverse Traffic Channel, then it  
21 shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  
22  $CDMACH_s - 25$  if  $1XRL\_FREQ\_OFFSET_s$  equals '00', on the CDMA Channel designated by  
23  $CDMACH_s$  if  $1XRL\_FREQ\_OFFSET_s$  equals '01', or on the CDMA Channel designated by  
24  $CDMACH_s + 25$  if  $1XRL\_FREQ\_OFFSET_s$  equals '10'.

25 If the mobile station is transmitting and receiving using the same spreading rate, the  
26 nominal mobile station transmit carrier frequency shall be 80.0 MHz lower than the  
27 frequency of the base station transmit signal as measured at the mobile station receiver. If  
28 the mobile station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3,  
29 the nominal mobile station transmit carrier frequency shall be  $80.0 - 1.25 \times$   
30  $(1XRL\_FREQ\_OFFSET_s - 1)$  MHz lower than the center frequency of the center CDMA  
31 channel transmitted by the base station as measured at the mobile station receiver.

32 At the base station, if a Band Class 1 carrier operates with Spreading Rate 3, then all three  
33 carriers shall be separated by 25 CDMA Channels (1.25 MHz separation).

34



1

**Table 2.1.2-1. Band Class 1 Block Frequency Correspondence**

| <b>Block Designator</b> | <b>Transmit Frequency Band (MHz)</b> |                     |
|-------------------------|--------------------------------------|---------------------|
|                         | <b>Mobile Station</b>                | <b>Base Station</b> |
| A                       | 1850–1865                            | 1930–1945           |
| D                       | 1865–1870                            | 1945–1950           |
| B                       | 1870–1885                            | 1950–1965           |
| E                       | 1885–1890                            | 1965–1970           |
| F                       | 1890–1895                            | 1970–1975           |
| C                       | 1895–1910                            | 1975–1990           |

2

3

4

**Table 2.1.2-2. CDMA Channel Number to CDMA Frequency Assignment Correspondence for Band Class 1**

| <b>Transmitter</b> | <b>CDMA Channel Number</b> | <b>Center Frequency for CDMA Channel (MHz)</b> |
|--------------------|----------------------------|--|
| Mobile Station     | $0 \leq N \leq 1199$       | $1850.000 + 0.050 N$                           |
| Base Station       | $0 \leq N \leq 1199$       | $1930.000 + 0.050 N$                           |

5

**Table 2.1.2-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 1 and Spreading Rate 1**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|------------------|-----------------------|---------------------|-------------------------------|-------------------|
|                  |                       |                     | Mobile Station                | Base Station      |
| A<br>(15 MHz)    | Not Valid             | 0–24                | 1850.000–1851.200             | 1930.000–1931.200 |
|                  | Valid                 | 25–275              | 1851.250–1863.750             | 1931.250–1943.750 |
|                  | Cond. Valid           | 276–299             | 1863.800–1864.950             | 1943.800–1944.950 |
| D<br>(5 MHz)     | Cond. Valid           | 300–324             | 1865.000–1866.200             | 1945.000–1946.200 |
|                  | Valid                 | 325–375             | 1866.250–1868.750             | 1946.250–1948.750 |
|                  | Cond. Valid           | 376–399             | 1868.800–1869.950             | 1948.800–1949.950 |
| B<br>(15 MHz)    | Cond. Valid           | 400–424             | 1870.000–1871.200             | 1950.000–1951.200 |
|                  | Valid                 | 425–675             | 1871.250–1883.750             | 1951.250–1963.750 |
|                  | Cond. Valid           | 676–699             | 1883.800–1884.950             | 1963.800–1964.950 |
| E<br>(5 MHz)     | Cond. Valid           | 700–724             | 1885.000–1886.200             | 1965.000–1966.200 |
|                  | Valid                 | 725–775             | 1886.250–1888.750             | 1966.250–1968.750 |
|                  | Cond. Valid           | 776–799             | 1888.800–1889.950             | 1968.800–1969.950 |
| F<br>(5 MHz)     | Cond. Valid           | 800–824             | 1890.000–1891.200             | 1970.000–1971.200 |
|                  | Valid                 | 825–875             | 1891.250–1893.750             | 1971.250–1973.750 |
|                  | Cond. Valid           | 876–899             | 1893.800–1894.950             | 1973.800–1974.950 |
| C<br>(15 MHz)    | Cond. Valid           | 900–924             | 1895.000–1896.200             | 1975.000–1976.200 |
|                  | Valid                 | 925–1175            | 1896.250–1908.750             | 1976.250–1988.750 |
|                  | Not Valid             | 1176–1199           | 1908.800–1909.950             | 1988.800–1989.950 |

**Table 2.1.2-4. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 1 and Spreading Rate 3**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|------------------|-----------------------|---------------------|-------------------------------|-------------------|
|                  |                       |                     | Mobile Station                | Base Station      |
| A<br>(15 MHz)    | Not Valid             | 0–49                | 1850.000–1852.450             | 1930.000–1932.450 |
|                  | Valid                 | 50–250              | 1852.500–1862.500             | 1932.500–1942.500 |
|                  | Cond. Valid           | 251–299             | 1862.550–1864.950             | 1942.550–1944.950 |
| D<br>(5 MHz)     | Cond. Valid           | 300–349             | 1865.000–1867.450             | 1945.000–1947.450 |
|                  | Valid                 | 350                 | 1867.500                      | 1947.500          |
|                  | Cond. Valid           | 351–399             | 1867.550–1869.950             | 1947.550–1949.950 |
| B<br>(15 MHz)    | Cond. Valid           | 400–449             | 1870.000–1872.450             | 1950.000–1952.450 |
|                  | Valid                 | 450–650             | 1872.500–1882.500             | 1952.500–1962.500 |
|                  | Cond. Valid           | 651–699             | 1882.550–1884.950             | 1962.550–1964.950 |
| E<br>(5 MHz)     | Cond. Valid           | 700–749             | 1885.000–1887.450             | 1965.000–1967.450 |
|                  | Valid                 | 750                 | 1887.500                      | 1967.500          |
|                  | Cond. Valid           | 751–799             | 1887.550–1889.950             | 1967.550–1969.950 |
| F<br>(5 MHz)     | Cond. Valid           | 800–849             | 1890.000–1892.450             | 1970.000–1972.450 |
|                  | Valid                 | 850                 | 1892.500                      | 1972.500          |
|                  | Cond. Valid           | 851–899             | 1892.550–1894.950             | 1972.550–1974.950 |
| C<br>(15 MHz)    | Cond. Valid           | 900–949             | 1895.000–1897.450             | 1975.000–1977.450 |
|                  | Valid                 | 950–1150            | 1897.500–1907.500             | 1977.500–1987.500 |
|                  | Not Valid             | 1151–1199           | 1907.550–1909.950             | 1987.550–1989.950 |

**Table 2.1.2-5. CDMA Preferred Set of Frequency Assignments for Band Class 1**

| <b>Block Designator</b> | <b>Spreading Rate</b> | <b>Preferred Set Channel Numbers</b>                          |
|-------------------------|-----------------------|---|
| A                       | 1                     | 25, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275            |
|                         | 3                     | 50, 75, 100, 125, 150, 175, 200, 225, 250                     |
| D                       | 1                     | 325, 350, 375   |
|                         | 3                     | 350   |
| B                       | 1                     | 425, 450, 475, 500, 525, 550, 575, 600, 625, 650, 675         |
|                         | 3                     | 450, 475, 500, 525, 550, 575, 600, 625, 650                   |
| E                       | 1                     | 725, 750, 775   |
|                         | 3                     | 750   |
| F                       | 1                     | 825, 850, 875   |
|                         | 3                     | 850   |
| C                       | 1                     | 925, 950, 975, 1000, 1025, 1050, 1075, 1100, 1125, 1150, 1175 |
|                         | 3                     | 950, 975, 1000, 1025, 1050, 1075, 1100, 1125, 1150            |

**Table 2.1.2-6. Sync Channel Preferred Set of Frequency Assignments for Spreading Rate 3 for Band Class 1**

| <b>Block Designator</b> | <b>Preferred Set of Channel Numbers</b> |
|-------------------------|---|
| A                       | 75, 150, 225                            |
| D                       | 350                                     |
| B                       | 475, 550, 625                           |
| E                       | 750                                     |
| F                       | 850                                     |
| C                       | 975, 1050, 1125                         |

### 2.1.3 Band Class 2 (TACS Band)

The Band Class 2 block designators for the CDMA equipment shall be as specified in Table 2.1.3-1. CDMA equipments supporting Band Class 2 shall be capable of transmitting in Band Class 2 using at least one band subclass. The band subclasses for Band Class 2 are specified in Table 2.1.3-2.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 2 shall be as specified in Table 2.1.3-3. CDMA equipments supporting Band

1 Class 2 and Spreading Rate 1 shall support transmission on the valid channel numbers  
 2 shown in Table 2.1.3-4. CDMA equipments supporting Band Class 2 and Spreading Rate 3  
 3 shall support transmission on the valid channel numbers shown in Table 2.1.3-5.

4 A preferred set of CDMA frequency assignments is given in Table 2.1.3-6.

5 If the mobile station uses Spreading Rate 1 or Spreading Rate 3 for both Forward and  
 6 Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA  
 7 Channel designated by  $CDMACH_s$ . If the mobile station uses Spreading Rate 3 for the  
 8 Forward Traffic Channel and uses Spreading Rate 1 for the Reverse Traffic Channel, then it  
 9 shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  
 10  $CDMACH_s - 50$  if  $1XRL\_FREQ\_OFFSET_s$  equals '00', on the CDMA Channel designated by  
 11  $CDMACH_s$  if  $1XRL\_FREQ\_OFFSET_s$  equals '01', or on the CDMA Channel designated by  
 12  $CDMACH_s + 50$  if  $1XRL\_FREQ\_OFFSET_s$  equals '10'.

13 If the mobile station is transmitting and receiving using the same spreading rate, the  
 14 nominal mobile station transmit carrier frequency shall be 45.0 MHz lower than the  
 15 frequency of the base station transmit signal as measured at the mobile station receiver. If  
 16 the mobile station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3,  
 17 the nominal mobile station transmit carrier frequency shall be  $45.0 - 1.25 \times$   
 18  $(1XRL\_FREQ\_OFFSET_s - 1)$  MHz lower than the center frequency of the center CDMA  
 19 channel transmitted by the base station as measured at the mobile station receiver.

20 At the base station, if a Band Class 2 carrier operates with Spreading Rate 3, then all three  
 21 carriers shall be separated by 50 CDMA Channels (1.25 MHz separation).

22  
 23 **Table 2.1.3-1. Band Class 2 Block Frequency Correspondence**

| Block Designator | Transmit Frequency Band (MHz) |                   |
|------------------|-------------------------------|-------------------|
|                  | Mobile Station                | Base Station      |
| A                | 872.0125–879.9875             | 917.0125–924.9875 |
|                  | 890.0125–897.4875             | 935.0125–942.4875 |
|                  | 905.0125–908.9875             | 950.0125–953.9875 |
| B                | 880.0125–887.9875             | 925.0125–932.9875 |
|                  | 897.5125–904.9875             | 942.5125–949.9875 |
|                  | 909.0125–914.9875             | 954.0125–959.9875 |

24

1

**Table 2.1.3-2. Band Class 2 Band Subclasses**

| <b>Channels Covered</b> | <b>Band Subclass</b> |
|-------------------------|----------------------|
| 600                     | 0                    |
| 1000                    | 1                    |
| 1320                    | 2                    |

2

3

**Table 2.1.3-3. CDMA Channel Number to CDMA Frequency Assignment Correspondence for Band Class 2**

4

| <b>Transmitter</b> | <b>CDMA Channel Number</b> | <b>Center Frequency for CDMA Channel (MHz)</b> |
|--------------------|----------------------------|--|
| Mobile Station     | $0 \leq N \leq 1000$       | $0.025 N + 889.9875$                           |
|                    | $1329 \leq N \leq 2047$    | $0.025 (N - 1328) + 871.9875$                  |
| Base Station       | $0 \leq N \leq 1000$       | $0.025 N + 934.9875$                           |
|                    | $1329 \leq N \leq 2047$    | $0.025 (N - 1328) + 916.9875$                  |

5

1  
2

**Table 2.1.3-4. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 2 and Spreading Rate 1**

| Block Designator      | CDMA Channel Validity     | CDMA Channel Number    | Transmit Frequency Band (MHz)          |  |
|-----------------------|---------------------------|------------------------|--|--|
|                       |                           |                        | Mobile Station                         | Base Station                           |
| A ETACS<br>(8 MHz)    | Not Valid<br>Valid-1320   | 1329–1355<br>1356–1648 | 872.0125–872.6625<br>872.6875–879.9875 | 917.0125–917.6625<br>917.6875–924.9875 |
| B ETACS<br>(8 MHz)    | Valid-1320                | 1649–1941              | 880.0125–887.3125                      | 925.0125–932.3125                      |
| Unassigned<br>(2 MHz) | Cond. Valid-1320          | 1969–2047<br>0         | 888.0125–889.9625<br>889.9875          | 933.0125–934.9625<br>934.9875          |
| A<br>(7.5 MHz)        | Cond. Valid-1320<br>Valid | 1–28<br>29–300         | 890.0125–890.6875<br>890.7125–897.4875 | 935.0125–935.6875<br>935.7125–942.4875 |
| B<br>(7.5 MHz)        | Valid<br>Cond. Valid-1000 | 301–573<br>574–600     | 897.5125–904.3125<br>904.3375–904.9875 | 942.5125–949.3125<br>949.3375–949.9875 |
| A'<br>(4 MHz)         | Valid-1000                | 601–760                | 905.0125–908.9875                      | 950.0125–953.9875                      |
| B'<br>(6 MHz)         | Valid-1000<br>Not Valid   | 761–973<br>974–1000    | 909.0125–914.3125<br>914.3375–914.9875 | 954.0125–959.3125<br>959.3375–959.9875 |

Valid refers to 600, 1000, and 1320 channel mobile stations. Valid-1000 refers to 1000 channel mobile stations. Valid-1320 refers to 1320 channel mobile stations.

3

**Table 2.1.3-5. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 2 and Spreading Rate 3**

| Block Designator      | CDMA Channel Validity             | CDMA Channel Number                                  | Transmit Frequency Band (MHz)                               |   |
|-----------------------|-----------------------------------|--|---|---|
|                       |                                   |  | Mobile Station  | Base Station  |
| A ETACS<br>(8 MHz)    | Not Valid<br><br>Valid-1320       | 1329-<br>Not specified<br><br>Not specified-<br>1648 | 872.0125-Not<br>specified<br><br>Not specified-<br>879.9875 | 917.0125-Not<br>specified<br><br>Not specified-<br>924.9875 |
| B ETACS<br>(8 MHz)    | Valid-1320                        | 1649-1941  | 880.0125-887.3125   | 925.0125-932.3125   |
| Unassigned<br>(2 MHz) | Cond. Valid-<br>1320              | 1969-2047<br>0                                       | 888.0125-889.9625<br>889.9875                               | 933.0125-934.9625<br>934.9875                               |
| A<br>(7.5 MHz)        | Cond. Valid-<br>1320<br><br>Valid | 1-Not<br>specified<br><br>Not specified-<br>300      | 890.0125-Not<br>specified<br><br>Not specified-<br>897.4875 | 935.0125-Not<br>specified<br><br>Not specified-<br>942.4875 |
| B<br>(7.5 MHz)        | Valid<br><br>Cond. Valid-<br>1000 | 301-573<br><br>Not specified-<br>600                 | 897.5125-904.3125<br><br>Not specified-<br>904.9875         | 942.5125-949.3125<br><br>Not specified-<br>949.9875         |
| A'<br>(4 MHz)         | Valid-1000                        | 601-760  | 905.0125-908.9875   | 950.0125-953.9875   |
| B'<br>(6 MHz)         | Valid-1000<br><br>Not Valid       | 761-Not<br>specified<br><br>Not specified-<br>1000   | 909.0125-Not<br>specified<br><br>Not specified-<br>914.9875 | 954.0125-Not<br>specified<br><br>Not specified-<br>959.9875 |

Valid refers to 600, 1000, and 1320 channel mobile stations. Valid-1000 refers to 1000 channel mobile stations. Valid-1320 refers to 1320 channel mobile stations.

**Table 2.1.3-6. CDMA Preferred Set of Frequency Assignments for Band Class 2**

| Block Designator | Spreading Rate | Preferred Set Channel Numbers |
|------------------|----------------|-------------------------------|
| A                | 1              | 79, 679, or 1365              |
|                  | 3              | Not specified                 |
| B                | 1              | 379, 947, or 1932             |
|                  | 3              | Not specified                 |



1 2.1.4 Band Class 3 (JTACS Band)

2 The Band Class 3 system designators for the CDMA equipment shall be as specified in  
3 Table 2.1.4-1. CDMA equipments supporting Band Class 3 shall be capable of transmitting  
4 in Band Class 3.

5 The channel spacing, CDMA channel designations, and transmitter center frequencies of  
6 Band Class 3 shall be as specified in Table 2.1.4-2. CDMA equipments supporting Band  
7 Class 3 and Spreading Rate 1 shall support transmission on the valid and conditionally  
8 valid channel numbers shown in Table 2.1.4-3. Note that certain channel assignments are  
9 not valid and others are conditionally valid. Transmission on conditionally valid channels is  
10 permissible if the adjacent block is allocated to the same licensee or if other valid  
11 authorization has been obtained.

12 Channel numbers for the Primary CDMA Channels and the Secondary CDMA Channels are  
13 given in Table 2.1.4-4.

14 If the mobile station uses Spreading Rate 1 for both Forward and Reverse Traffic Channel,  
15 then it shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  
16 CDMACH<sub>s</sub>.

17 If the mobile station is transmitting and receiving using the same spreading rate, the  
18 nominal mobile station transmit carrier frequency shall be 55.0 MHz higher than the  
19 frequency of the base station transmit signal as measured at the mobile station receiver.

20 At the base station, if a Band Class 3 carrier operates with Spreading Rate 3, then all three  
21 carriers shall be separated by 50 CDMA Channels (1.25 MHz separation).

22  
23 **Table 2.1.4-1. Band Class 3 System Frequency Correspondence**

| System Designator | Transmit Frequency Band (MHz) |                   |
|-------------------|-------------------------------|-------------------|
|                   | Mobile Station                | Base Station      |
| A                 | 887.0125–888.9875             | 832.0125–833.9875 |
|                   | 893.0125–898.0000             | 838.0125–843.0000 |
|                   | 898.0125–900.9875             | 843.0125–845.9875 |
|                   | 915.0125–924.9875             | 860.0125–869.9875 |
| B                 | Not specified                 | Not specified     |

24

**Table 2.1.4-2. CDMA Channel Number to CDMA Frequency  
Assignment Correspondence for Band Class 3**

| <b>Transmitter</b> | <b>CDMA Channel Number</b> | <b>Center Frequency for<br/>CDMA Channel (MHz)</b> |
|--------------------|----------------------------|--|
| Mobile Station     | $1 \leq N \leq 799$        | $0.0125 N + 915.000$                               |
|                    | $801 \leq N \leq 1039$     | $0.0125 (N - 800) + 898.000$                       |
|                    | $1041 \leq N \leq 1199$    | $0.0125 (N - 1040) + 887.000$                      |
|                    | $1201 \leq N \leq 1600$    | $0.0125 (N - 1200) + 893.000$                      |
| Base Station       | $1 \leq N \leq 799$        | $0.0125 N + 860.000$                               |
|                    | $801 \leq N \leq 1039$     | $0.0125 (N - 800) + 843.000$                       |
|                    | $1041 \leq N \leq 1199$    | $0.0125 (N - 1040) + 832.000$                      |
|                    | $1201 \leq N \leq 1600$    | $0.0125 (N - 1200) + 838.000$                      |

In this table, only even-valued N values are valid.

**Table 2.1.4-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 3 and Spreading Rate 1**

| <b>System<br/>Designator</b> | <b>CDMA<br/>Channel<br/>Validity</b> | <b>CDMA<br/>Channel<br/>Number</b> | <b>Transmit Frequency Band (MHz)</b> |                     |
|------------------------------|--------------------------------------|------------------------------------|--------------------------------------|---------------------|
|                              |                                      |                                    | <b>Mobile Station</b>                | <b>Base Station</b> |
| A1<br>(2 MHz)                | Not Valid                            | 1041-1099                          | 887.0125-887.7375                    | 832.0125-832.7375   |
|                              | Valid                                | 1100-1140                          | 887.7500-888.2500                    | 832.7500-833.2500   |
|                              | Not Valid                            | 1141-1199                          | 888.2625-888.9875                    | 833.2625-833.9875   |
| A3<br>(5 MHz)                | Not Valid                            | 1201-1259                          | 893.0125-893.7375                    | 838.0125-838.7375   |
|                              | Valid                                | 1260-1540                          | 893.7500-897.2500                    | 838.7500-842.2500   |
|                              | Cond. Valid                          | 1541-1600                          | 897.2625-898.0000                    | 842.2625-843.0000   |
| A2<br>(3 MHz)                | Cond. Valid                          | 801-859                            | 898.0125-898.7375                    | 843.0125-843.7375   |
|                              | Valid                                | 860-980                            | 898.7500-900.2500                    | 843.7500-845.2500   |
|                              | Not Valid                            | 981-1039                           | 900.2625-900.9875                    | 845.2625-845.9875   |
| A<br>(10 MHz)                | Not Valid                            | 1-59                               | 915.0125-915.7375                    | 860.0125-860.7375   |
|                              | Valid                                | 60-740                             | 915.7500-924.2500                    | 860.7500-869.2500   |
|                              | Not Valid                            | 741-799                            | 924.2625-924.9875                    | 869.2625-869.9875   |
| B                            | Not specified                        | Not specified                      | Not specified                        | Not specified       |

**Table 2.1.4-4. CDMA Preferred Set of Frequency Assignments for Band Class 3**

| <b>System Designator</b> | <b>Spreading Rate</b> | <b>Preferred Set Channel Numbers</b> |
|--------------------------|-----------------------|--------------------------------------|
| A                        | 1                     | 76 (Primary) and 872 (Secondary)     |
| B                        | 1                     | Not specified                        |

#### 2.1.5 Band Class 4 (Korean PCS Band)

The Band Class 4 block designators for the CDMA equipment shall be as specified in Table 2.1.5-1. CDMA equipments supporting Band Class 4 shall be capable of transmitting in Band Class 4.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 4 shall be as specified in Table 2.1.5-2. CDMA equipments supporting Band Class 4 and Spreading Rate 1 shall support transmission on the valid channel numbers shown in Table 2.1.5-3. CDMA equipments supporting Band Class 4 and Spreading Rate 3 shall support transmission on the valid channel numbers shown in Table 2.1.5-4.

A preferred set of CDMA frequency assignments is given in Table 2.1.5-5.

A preferred set of Sync Channel frequency assignments for the multi-carrier mode is given in Table 2.1.5-6.

If the mobile station uses Spreading Rate 1 or Spreading Rate 3 for both Forward and Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  $CDMACH_s$ . If the mobile station uses Spreading Rate 3 for the Forward Traffic Channel and uses Spreading Rate 1 for the Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  $CDMACH_s - 25$  if  $1XRL\_FREQ\_OFFSET_s$  equals '00', on the CDMA Channel designated by  $CDMACH_s$  if  $1XRL\_FREQ\_OFFSET_s$  equals '01', or on the CDMA Channel designated by  $CDMACH_s + 25$  if  $1XRL\_FREQ\_OFFSET_s$  equals '10'.

If the mobile station is transmitting and receiving using the same spreading rate, the nominal mobile station transmit carrier frequency shall be 90.0 MHz lower than the frequency of the base station transmit signal as measured at the mobile station receiver. If the mobile station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3, the nominal mobile station transmit carrier frequency shall be  $90.0 - 1.25 \times (1XRL\_FREQ\_OFFSET_s - 1)$  MHz lower than the center frequency of the center CDMA channel transmitted by the base station as measured at the mobile station receiver.

At the base station, if a Band Class 4 carrier operates with Spreading Rate 3, then all three carriers shall be separated by 25 CDMA Channels (1.25 MHz separation).

1 **Table 2.1.5-1. Band Class 4 Block Frequency Correspondence**

| Block Designator | Transmit Frequency Band (MHz) |              |
|------------------|-------------------------------|--------------|
|                  | Mobile Station                | Base Station |
| A                | 1750–1760                     | 1840–1850    |
| B                | 1760–1770                     | 1850–1860    |
| C                | 1770–1780                     | 1860–1870    |

2  
3 **Table 2.1.5-2. CDMA Channel Number to CDMA Frequency**  
4 **Assignment Correspondence for Band Class 4**

| Transmitter    | CDMA Channel Number | Center Frequency for CDMA Channel (MHz) |
|----------------|---------------------|---|
| Mobile Station | $0 \leq N \leq 599$ | $0.050 N + 1750.000$                    |
| Base Station   | $0 \leq N \leq 599$ | $0.050 N + 1840.000$                    |

5  
6 **Table 2.1.5-3. CDMA Channel Numbers and Corresponding Frequencies**  
7 **for Band Class 4 and Spreading Rate 1**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|------------------|-----------------------|---------------------|-------------------------------|-------------------|
|                  |                       |                     | Mobile Station                | Base Station      |
| A<br>(10 MHz)    | Not Valid             | 0–24                | 1750.000–1751.200             | 1840.000–1841.200 |
|                  | Valid                 | 25–175              | 1751.250–1758.750             | 1841.250–1848.750 |
|                  | Cond. Valid           | 176–199             | 1758.800–1759.950             | 1848.800–1849.950 |
| B<br>(10 MHz)    | Cond. Valid           | 200–224             | 1760.000–1761.200             | 1850.000–1851.200 |
|                  | Valid                 | 225–375             | 1761.250–1768.750             | 1851.250–1858.750 |
|                  | Cond. Valid           | 376–399             | 1768.800–1769.950             | 1858.800–1859.950 |
| C<br>(10 MHz)    | Cond. Valid           | 400–424             | 1770.000–1771.200             | 1860.000–1861.200 |
|                  | Valid                 | 425–575             | 1771.250–1778.750             | 1861.250–1868.750 |
|                  | Not Valid             | 576–599             | 1778.800–1779.950             | 1868.800–1869.950 |

**Table 2.1.5-4. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 4 and Spreading Rate 3**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|------------------|-----------------------|---------------------|-------------------------------|-------------------|
|                  |                       |                     | Mobile Station                | Base Station      |
| A<br>(10 MHz)    | Not Valid             | 0–49                | 1750.000–1752.450             | 1840.000–1842.450 |
|                  | Valid                 | 50–150              | 1752.500–1757.500             | 1842.500–1847.500 |
|                  | Cond. Valid           | 151–199             | 1757.550–1759.950             | 1847.550–1849.950 |
| B<br>(10 MHz)    | Cond. Valid           | 200–249             | 1760.000–1762.450             | 1850.000–1852.450 |
|                  | Valid                 | 250–350             | 1762.500–1767.500             | 1852.500–1857.500 |
|                  | Cond. Valid           | 351–399             | 1767.550–1769.950             | 1857.550–1859.950 |
| C<br>(10 MHz)    | Cond. Valid           | 400–449             | 1770.000–1772.450             | 1860.000–1862.450 |
|                  | Valid                 | 450–550             | 1772.500–1777.500             | 1862.500–1867.500 |
|                  | Not Valid             | 551–599             | 1777.550–1779.950             | 1867.550–1869.950 |

**Table 2.1.5-5. CDMA Preferred Set of Frequency Assignments for Band Class 4**

| Block Designator | Spreading Rate | Preferred Set Channel Numbers     |
|------------------|----------------|-----------------------------------|
| A                | 1              | 25, 50, 75, 100, 125, 150, 175    |
|                  | 3              | 50, 75, 100, 125, 150             |
| B                | 1              | 225, 250, 275, 300, 325, 350, 375 |
|                  | 3              | 250, 275, 300, 325, 350           |
| C                | 1              | 425, 450, 475, 500, 525, 550, 575 |
|                  | 3              | 450, 475, 500, 525, 550           |

**Table 2.1.5-6. Sync Channel Preferred Set of Frequency Assignments  
for Spreading Rate 3 for Band Class 4**

| Block Designator | Preferred Set of Channel Numbers |
|------------------|----------------------------------|
| A                | 75, 150                          |
| B                | 275, 350                         |
| C                | 475, 550                         |

1 2.1.6 Band Class 5 (450 MHz Band)

2 The Band Class 5 block designators for the CDMA equipment shall be as specified in Table  
 3 2.1.6-1. There are twelve band subclasses<sup>7</sup> specified for Band Class 5. Each band subclass  
 4 corresponds to a specific block designator (see Table 2.1.6-1). Each band subclass includes  
 5 all the channels designated for that block. CDMA equipments supporting Band Class 5  
 6 shall be capable of transmitting in at least one band subclass belonging to Band Class 5.  
 7 For CDMA equipments capable of transmitting in more than one band subclass belonging  
 8 to Band Class 5, one band subclass shall be designated as the Primary Band Subclass,  
 9 which is the band subclass used by the CDMA equipment's home system.

10 The channel spacing, CDMA channel designations, and transmitter center frequencies of  
 11 Band Class 5 shall be as specified in Table 2.1.6-2. Note that certain channel assignments  
 12 are not valid and others are conditionally valid. Mobile stations supporting Band Class 5  
 13 and Spreading Rate 1 shall support operations on the valid and conditionally valid channel  
 14 numbers of the supported blocks shown in Table 2.1.6-3. Base stations supporting Band  
 15 Class 5 and Spreading Rate 1 shall support operations on the valid and may support  
 16 operations on the conditionally valid channel numbers of the supported blocks shown in  
 17 Table 2.1.6-3. Transmission on conditionally valid channels is permissible if the adjacent  
 18 block is allocated to the same licensee or if other valid authorization has been obtained.  
 19 CDMA equipments supporting Band Class 5 and Spreading Rate 3 shall support operation  
 20 on the valid channel numbers of the supported blocks shown in Table 2.1.6-4.

21 A preferred set of CDMA frequency assignments is given in Table 2.1.6-5.

22 A preferred set of Sync Channel frequency assignments for the multi-carrier mode is given  
 23 in Table 2.1.6-6.

24 If the mobile station uses Spreading Rate 1 or Spreading Rate 3 for both Forward and  
 25 Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA  
 26 Channel designated by  $CDMACH_s$ . If the mobile station uses Spreading Rate 3 for the  
 27 Forward Traffic Channel and uses Spreading Rate 1 for the Reverse Traffic Channel and is  
 28 operating in block A, B, C, E, I, J, K, or L, then it shall transmit the Reverse Traffic Channel  
 29 on the CDMA Channel designated by  $CDMACH_s - 50$  if  $1XRL\_FREQ\_OFFSET_s$  equals '00',  
 30 on the CDMA Channel designated by  $CDMACH_s$  if  $1XRL\_FREQ\_OFFSET_s$  equals '01', or on  
 31 the CDMA Channel designated by  $CDMACH_s + 50$  if  $1XRL\_FREQ\_OFFSET_s$  equals '10'. If  
 32 the mobile station uses Spreading Rate 3 for the Forward Traffic Channel and uses  
 33 Spreading Rate 1 for the Reverse Traffic Channel and is operating in block F, G, or H; then  
 34 it shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  
 35  $CDMACH_s - 62$  if  $1XRL\_FREQ\_OFFSET_s$  equals '00', on the CDMA Channel designated by  
 36  $CDMACH_s$  if  $1XRL\_FREQ\_OFFSET_s$  equals '01', or on the CDMA Channel designated by  
 37  $CDMACH_s + 62$  if  $1XRL\_FREQ\_OFFSET_s$  equals '10'.

---

<sup>7</sup> Blocks I, J and K occupy the same frequency band as blocks H, G and F, respectively. Channel spacing is 20 kHz for blocks F, G and H, while channel spacing is 25 kHz for blocks I, J and K. Blocks I, J or K should be used for new deployments instead of blocks H, G or F respectively.

1 If the mobile station is transmitting and receiving using the same spreading rate, the  
 2 nominal mobile station transmit carrier frequency shall be 10.0 MHz lower than the  
 3 frequency of the base station transmit signal as measured at the mobile station receiver. If  
 4 the mobile station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3  
 5 and is operating in block A, B, C, E, I, J, K, or L, the nominal mobile station transmit  
 6 carrier frequency shall be  $10.0 - 1.25 \times (1XRL\_FREQ\_OFFSET_s - 1)$  MHz lower than the  
 7 frequency of the base station transmit signal as measured at the mobile station receiver. If  
 8 the mobile station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3  
 9 and is operating in block F, G, or H, the nominal mobile station transmit carrier frequency  
 10 shall be  $10.0 - 1.24 \times (1XRL\_FREQ\_OFFSET_s - 1)$  MHz lower than the center frequency of  
 11 the center CDMA channel transmitted by the base station as measured at the mobile  
 12 station receiver.

13 At the base station, if a Band Class 5 carrier operates with Spreading Rate 3 in block A, B,  
 14 C, E, I, J, or K, then all three carriers shall be separated by 50 CDMA Channels (1.25 MHz  
 15 separation). If a Band Class 5 carrier operates with Spreading Rate 3 in block F, G, or H,  
 16 then all three carriers shall be separated by 62 CDMA Channels (1.24 MHz separation).

17

18 **Table 2.1.6-1. Band Class 5 Block Frequency**  
 19 **Correspondence and Band Subclasses**

| Block Designator | Band Subclass | Transmit Frequency Band (MHz) |                 |
|------------------|---------------|-------------------------------|-----------------|
|                  |               | Mobile Station                | Base Station    |
| A                | 0             | 452.500–457.475               | 462.500–467.475 |
| B                | 1             | 452.000–456.475               | 462.000–466.475 |
| C                | 2             | 450.000–454.800               | 460.000–464.800 |
| D                | 3             | 411.675–415.850               | 421.675–425.850 |
| E                | 4             | 415.500–419.975               | 425.500–429.975 |
| F                | 5             | 479.000–483.480               | 489.000–493.480 |
| G                | 6             | 455.230–459.990               | 465.230–469.990 |
| H                | 7             | 451.310–455.730               | 461.310–465.730 |
| I                | 8             | 451.325–455.725               | 461.325–465.725 |
| J                | 9             | 455.250–459.975               | 465.250–469.975 |
| K                | 10            | 479.000–483.475               | 489.000–493.475 |
| L                | 11            | 410.000–414.975               | 420.000–424.975 |

20

1  
2

**Table 2.1.6-2. CDMA Channel Number to CDMA Frequency  
Assignment Correspondence for Band Class 5**

| <b>Transmitter</b> | <b>CDMA Channel Number</b> | <b>Center Frequency for CDMA Channel (MHz)</b> |
|--------------------|----------------------------|--|
| Mobile Station     | $1 \leq N \leq 400$        | $0.025 (N - 1) + 450.000$                      |
|                    | $472 \leq N \leq 871$      | $0.025 (N - 472) + 410.000$                    |
|                    | $1039 \leq N \leq 1473$    | $0.020 (N - 1024) + 451.010$                   |
|                    | $1536 \leq N \leq 1715$    | $0.025 (N - 1536) + 479.000$                   |
|                    | $1792 \leq N \leq 2016$    | $0.020 (N - 1792) + 479.000$                   |
| Base Station       | $1 \leq N \leq 400$        | $0.025 (N - 1) + 460.000$                      |
|                    | $472 \leq N \leq 871$      | $0.025 (N - 472) + 420.000$                    |
|                    | $1039 \leq N \leq 1473$    | $0.020 (N - 1024) + 461.010$                   |
|                    | $1536 \leq N \leq 1715$    | $0.025 (N - 1536) + 489.000$                   |
|                    | $1792 \leq N \leq 2016$    | $0.020 (N - 1792) + 489.000$                   |

3



**Table 2.1.6-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 5 and Spreading Rate 1**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                 |
|------------------|-----------------------|---------------------|-------------------------------|-----------------|
|                  |                       |                     | Mobile Station                | Base Station    |
| A<br>(4.5 MHz)   | Not Valid             | 121–125             | 453.000–453.100               | 463.000–463.100 |
|                  | Cond. Valid           | 126–145             | 453.125–453.600               | 463.125–463.600 |
|                  | Valid                 | 146–275             | 453.625–456.850               | 463.625–466.850 |
|                  | Not Valid             | 276–300             | 456.875–457.475               | 466.875–467.475 |
| A'<br>(0.5 MHz)  | Not Valid             | 101–120             | 452.500–452.975               | 462.500–462.975 |
| B<br>(4.5 MHz)   | Not Valid             | 81–105              | 452.000–452.600               | 462.000–462.600 |
|                  | Valid                 | 106–235             | 452.625–455.850               | 462.625–465.850 |
|                  | Not Valid             | 236–260             | 455.875–456.475               | 465.875–466.475 |
| C<br>(4.8 MHz)   | Not Valid             | 1–25                | 450.000–450.600               | 460.000–460.600 |
|                  | Valid                 | 26–168              | 450.625–454.175               | 460.625–464.175 |
|                  | Not Valid             | 169–193             | 454.200–454.800               | 464.200–464.800 |
| D<br>(4.2 MHz)   | Not Valid             | 539–563             | 411.675–412.275               | 421.675–422.275 |
|                  | Valid                 | 564–681             | 412.300–415.225               | 422.300–425.225 |
|                  | Not Valid             | 682–706             | 415.250–415.850               | 425.250–425.850 |
| E<br>(4.5 MHz)   | Not Valid             | 692–716             | 415.500–416.100               | 425.500–426.100 |
|                  | Valid                 | 717–846             | 416.125–419.350               | 426.125–429.350 |
|                  | Not Valid             | 847–871             | 419.375–419.975               | 429.375–429.975 |
| F<br>(4.5 MHz)   | Not Valid             | 1792–1822           | 479.000–479.600               | 489.000–489.600 |
|                  | Valid                 | 1823–1985           | 479.620–482.860               | 489.620–492.860 |
|                  | Not Valid             | 1986–2016           | 482.880–483.480               | 492.880–493.480 |
| G<br>(4.78 MHz)  | Not Valid             | 1235–1265           | 455.230–455.830               | 465.230–465.830 |
|                  | Valid                 | 1266–1442           | 455.850–459.370               | 465.850–469.370 |
|                  | Not Valid             | 1443–1473           | 459.390–459.990               | 469.390–469.990 |
| H<br>(4.44 MHz)  | Not Valid             | 1039–1069           | 451.310–451.910               | 461.310–461.910 |
|                  | Valid                 | 1070–1229           | 451.930–455.110               | 461.930–465.110 |
|                  | Not Valid             | 1230–1260           | 455.130–455.730               | 465.130–465.730 |
| I<br>(4.425 MHz) | Not Valid             | 54–78               | 451.325–451.925               | 461.325–461.925 |
|                  | Valid                 | 79–205              | 451.950–455.100               | 461.950–465.100 |
|                  | Not Valid             | 206–230             | 455.125–455.725               | 465.125–465.725 |
| J<br>(4.75 MHz)  | Not Valid             | 211–234             | 455.250–455.825               | 465.250–465.825 |
|                  | Valid                 | 235–376             | 455.850–459.375               | 465.850–469.375 |
|                  | Not Valid             | 377–400             | 459.400–459.975               | 469.400–469.975 |
| K<br>(4.5 MHz)   | Not Valid             | 1536–1560           | 479.000–479.600               | 489.000–489.600 |
|                  | Valid                 | 1561–1690           | 479.625–482.850               | 489.625–492.850 |
|                  | Not Valid             | 1691–1715           | 482.875–483.475               | 492.875–493.475 |

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                 |
|------------------|-----------------------|---------------------|-------------------------------|-----------------|
|                  |                       |                     | Mobile Station                | Base Station    |
| L<br>(4.5 MHz)   | Not Valid             | 472–504             | 410.000–410.800               | 420.000–420.800 |
|                  | Valid                 | 505–646             | 410.825–414.350               | 420.825–424.350 |
|                  | Not Valid             | 647–671             | 414.375–414.975               | 424.375–424.975 |

**Table 2.1.6-4. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 5 and Spreading Rate 3**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                 |
|------------------|-----------------------|---------------------|-------------------------------|-----------------|
|                  |                       |                     | Mobile Station                | Base Station    |
| A<br>(4.5 MHz)   | Not Valid             | 121–209             | 453.000–455.200               | 463.000–465.200 |
|                  | Valid                 | 210                 | 455.225                       | 465.225         |
|                  | Not Valid             | 211–300             | 455.250–457.475               | 465.250–467.475 |
| A'<br>(0.5 MHz)  | Not Valid             | 101–120             | 452.500–452.975               | 462.500–462.975 |
| B<br>(4.5 MHz)   | Not Valid             | 81–169              | 452.000–454.200               | 462.000–464.200 |
|                  | Valid                 | 170                 | 454.225                       | 464.225         |
|                  | Not Valid             | 171–260             | 454.250–456.475               | 464.250–466.475 |
| C<br>(4.8 MHz)   | Not Valid             | 1–96                | 450.000–452.375               | 460.000–462.375 |
|                  | Valid                 | 97                  | 452.400                       | 462.400         |
|                  | Not Valid             | 98–193              | 452.425–454.800               | 462.425–464.800 |
| D<br>(4.2 MHz)   | Not Valid             | 539–706             | 411.675–415.850               | 421.675–425.850 |
| E<br>(4.5 MHz)   | Not Valid             | 692–780             | 415.500–417.700               | 425.500–427.700 |
|                  | Valid                 | 781                 | 417.725                       | 427.725         |
|                  | Not Valid             | 782–871             | 417.750–419.975               | 427.750–429.975 |
| F<br>(4.5 MHz)   | Not Valid             | 1792–1903           | 479.000–481.220               | 489.000–491.220 |
|                  | Valid                 | 1904                | 481.240                       | 491.240         |
|                  | Not Valid             | 1905–2016           | 481.260–483.480               | 491.260–493.480 |
| G<br>(4.78 MHz)  | Not Valid             | 1235–1353           | 455.230–457.590               | 465.230–467.590 |
|                  | Valid                 | 1354                | 457.610                       | 467.610         |
|                  | Not Valid             | 1355–1473           | 457.630–459.990               | 467.630–469.990 |
| H<br>(4.44 MHz)  | Not Valid             | 1039–1149           | 451.310–453.510               | 461.310–463.510 |
|                  | Valid                 | 1150                | 453.530                       | 463.530         |
|                  | Not Valid             | 1151–1260           | 453.550–455.730               | 463.550–465.730 |
| I<br>(4.425 MHz) | Not Valid             | 54–141              | 451.325–453.500               | 461.325–463.500 |
|                  | Valid                 | 142                 | 453.525                       | 463.525         |
|                  | Not Valid             | 143–230             | 453.550–455.725               | 463.550–465.725 |

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                 |
|------------------|-----------------------|---------------------|-------------------------------|-----------------|
|                  |                       |                     | Mobile Station                | Base Station    |
| J<br>(4.75 MHz)  | Not Valid             | 211–304             | 455.250–457.575               | 465.250–467.575 |
|                  | Valid                 | 305                 | 457.600                       | 467.600         |
|                  | Not Valid             | 306–400             | 457.625–459.975               | 467.625–469.975 |
| K<br>(4.5 MHz)   | Not Valid             | 1536–1624           | 479.000–481.200               | 489.000–491.200 |
|                  | Valid                 | 1625                | 481.225                       | 491.225         |
|                  | Not Valid             | 1626–1715           | 481.250–483.475               | 491.250–493.475 |
| L<br>(4.5 MHz)   | Not Valid             | 472–671             | 410.000–414.975               | 420.000–424.975 |

1

2

**Table 2.1.6-5. CDMA Preferred Set of Frequency Assignments for Band Class 5**

| Block Designator | Preferred Set Channel Numbers |
|------------------|-------------------------------|
| A                | 160, 210*, 260                |
| B                | 120, 170, 220*                |
| C                | 47, 97, 147*                  |
| D                | 573, 623, 673*                |
| E                | 731*, 781, 831                |
| F                | 1841*, 1903, 1965             |
| G                | 1291*, 1353, 1415             |
| H                | 1089, 1151, 1213*             |
| I                | 92, 142, 192*                 |
| J                | 255*, 305, 355                |
| K                | 1575*, 1625, 1675             |
| L                | Not Specified                 |

\* CDMA frequency assignments that support inter-block roaming

3

**Table 2.1.6-6. Sync Channel Preferred Set of Frequency Assignments  
for Spreading Rate 3 for Band Class 5**

| <b>Block Designator</b> | <b>Preferred Set Channel Numbers</b> |
|-------------------------|--------------------------------------|
| A                       | 210                                  |
| B                       | 220                                  |
| C                       | 147                                  |
| E                       | 731                                  |
| F                       | 1841                                 |
| G                       | 1291                                 |
| H                       | 1213                                 |
| I                       | 192                                  |
| J                       | 255                                  |
| K                       | 1575                                 |
| L                       | Not Specified                        |

#### 2.1.7 Band Class 6 (2 GHz Band)

The Band Class 6 block designators for the CDMA equipment are not specified, since licensee allocations vary by regulatory body. CDMA equipments supporting Band Class 6 shall be capable of transmitting in Band Class 6.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 6 shall be as specified in Table 2.1.7-1. CDMA equipments supporting Band Class 6 and Spreading Rate 1 shall support transmission on the valid channel numbers shown in Table 2.1.7-2. CDMA equipments supporting Band Class 6 and Spreading Rate 3 shall support transmission on the valid channel numbers shown in Table 2.1.7-3.

A preferred set of CDMA frequency assignments is given in Table 2.1.7-4.

If the mobile station uses Spreading Rate 1 or Spreading Rate 3 for both Forward and Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  $CDMACH_s$ . If the mobile station uses Spreading Rate 3 for the Forward Traffic Channel and uses Spreading Rate 1 for the Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  $CDMACH_s - 25$  if  $1XRL\_FREQ\_OFFSET_s$  equals '00', on the CDMA Channel designated by  $CDMACH_s$  if  $1XRL\_FREQ\_OFFSET_s$  equals '01', or on the CDMA Channel designated by  $CDMACH_s + 25$  if  $1XRL\_FREQ\_OFFSET_s$  equals '10'.

If the mobile station is transmitting and receiving using the same spreading rate, the nominal mobile station transmit carrier frequency shall be 190.0 MHz lower than the frequency of the base station transmit signal as measured at the mobile station receiver. If the mobile station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3,

1 the nominal mobile station transmit carrier frequency shall be  $190.0 - 1.25 \times$   
 2  $(1XRL\_FREQ\_OFFSET_s - 1)$  MHz lower than the center frequency of the center CDMA  
 3 channel transmitted by the base station as measured at the mobile station receiver.

4 At the base station, if a Band Class 6 carrier operates with Spreading Rate 3, then all three  
 5 carriers shall be separated by 25 CDMA Channels (1.25 MHz separation).

6  
 7 **Table 2.1.7-1. CDMA Channel Number to CDMA Frequency**  
 8 **Assignment Correspondence for Band Class 6**

| Transmitter    | CDMA Channel Number  | Center Frequency for CDMA Channel (MHz) |
|----------------|----------------------|---|
| Mobile Station | $0 \leq N \leq 1199$ | $1920.000 + 0.050 N$                    |
| Base Station   | $0 \leq N \leq 1199$ | $2110.000 + 0.050 N$                    |

9  
 10 **Table 2.1.7-2. CDMA Channel Numbers and Corresponding Frequencies**  
 11 **for Band Class 6 and Spreading Rate 1**

| CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|-----------------------|---------------------|-------------------------------|-------------------|
|                       |                     | Mobile Station                | Base Station      |
| Not Valid             | 0–24                | 1920.000–1921.200             | 2110.000–2111.200 |
| Valid                 | 25–1175             | 1921.250–1978.750             | 2111.250–2168.750 |
| Not Valid             | 1176–1199           | 1978.800–1979.950             | 2168.800–2169.950 |

Channel numbers less than 1.25 MHz from the licensee's band edge are not valid.

12  
 13 **Table 2.1.7-3. CDMA Channel Numbers and Corresponding Frequencies**  
 14 **for Band Class 6 and Spreading Rate 3**

| CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|-----------------------|---------------------|-------------------------------|-------------------|
|                       |                     | Mobile Station                | Base Station      |
| Not Valid             | 0–49                | 1920.000–1922.450             | 2110.000–2112.450 |
| Valid                 | 50–1150             | 1922.500–1977.500             | 2112.500–2167.500 |
| Not Valid             | 1151–1199           | 1977.550–1979.950             | 2167.550–2169.950 |

Channel numbers less than 2.5 MHz from the licensee's band edge are not valid.

**Table 2.1.7-4. CDMA Preferred Set of Frequency Assignments for Band Class 6**

| Spreading Rate | Preferred Set Channel Numbers |
|----------------|-------------------------------|
| 1              | 25, 50, ..., 1150, 1175       |
| 3              | 50, 75, ..., 1125, 1150       |

### 2.1.8 Band Class 7 (700 MHz Band)

The Band Class 7 block designators for the CDMA equipment shall be as specified in Table 2.1.8-1. CDMA equipments supporting Band Class 7 shall be capable of transmitting in Band Class 7.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 7 shall be as specified in Table 2.1.8-2. CDMA equipments supporting Band Class 7 and Spreading Rate 1 shall support operations on the valid and conditionally valid channel numbers shown in Table 2.1.8-3. CDMA equipments supporting Band Class 7 and Spreading Rate 3 shall support operations on the valid and conditionally valid channel numbers shown in Table 2.1.8-4. Note that certain channel assignments are not valid and others are conditionally valid. Transmission on conditionally valid channels is permissible if the adjacent block is allocated to the same licensee or if other valid authorization has been obtained.

A preferred set of CDMA frequency assignments is given in Table 2.1.8-5.

A preferred set of Sync Channel frequency assignments for the multi-carrier mode is given in Table 2.1.8-6.

If the mobile station uses Spreading Rate 1 or Spreading Rate 3 for both Forward and Reverse Traffic Channels, then it shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  $CDMACH_s$ . If the mobile station uses Spreading Rate 3 for the Forward Traffic Channel and uses Spreading Rate 1 for the Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  $CDMACH_s - 25$  if  $1XRL\_FREQ\_OFFSET_s$  equals '00', on the CDMA Channel designated by  $CDMACH_s$  if  $1XRL\_FREQ\_OFFSET_s$  equals '01', or on the CDMA Channel designated by  $CDMACH_s + 25$  if  $1XRL\_FREQ\_OFFSET_s$  equals '10'.

If the mobile station is transmitting and receiving using the same spreading rate, the nominal mobile station transmit carrier frequency shall be 30.0 MHz higher than the frequency of the base station transmit signal as measured at the mobile station receiver. If the mobile station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3, the nominal mobile station transmit carrier frequency shall be  $30.0 + 1.25 \times (1XRL\_FREQ\_OFFSET_s - 1)$  MHz higher than the center frequency of the center CDMA channel transmitted by the base station as measured at the mobile station receiver.

At the base station, if a Band Class 7 carrier operates with Spreading Rate 3, then all three carriers shall be separated by 25 CDMA Channels (1.25 MHz separation).

1 **Table 2.1.8-1. Band Class 7 Block Frequency Correspondence**

| Block Designator | Transmit Frequency Band (MHz) |              |
|------------------|-------------------------------|--------------|
|                  | Mobile Station                | Base Station |
| A                | 776–777                       | 746–747      |
| C                | 777–782                       | 747–752      |
| D                | 782–792                       | 752–762      |
| B                | 792–794                       | 762–764      |

2  
3 **Table 2.1.8-2. CDMA Channel Number to CDMA Frequency**  
4 **Assignment Correspondence for Band Class 7**

| Transmitter    | CDMA Channel Number | Center Frequency for CDMA Channel (MHz) |
|----------------|---------------------|---|
| Mobile Station | $0 \leq N \leq 359$ | $776.000 + 0.050 N$                     |
| Base Station   | $0 \leq N \leq 359$ | $746.000 + 0.050 N$                     |

5  
6 **Table 2.1.8-3. CDMA Channel Numbers and Corresponding Frequencies**  
7 **for Band Class 7 and Spreading Rate 1**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                 |
|------------------|-----------------------|---------------------|-------------------------------|-----------------|
|                  |                       |                     | Mobile Station                | Base Station    |
| A<br>(1 MHz)     | Not Valid             | 0–19                | 776.000–776.950               | 746.000–746.950 |
| C<br>(5 MHz)     | Not Valid             | 20–44               | 777.000–778.200               | 747.000–748.200 |
|                  | Valid                 | 45–95               | 778.250–780.750               | 748.250–750.750 |
|                  | Cond. Valid           | 96–119              | 780.800–781.950               | 750.800–751.950 |
| D<br>(10 MHz)    | Cond. Valid           | 120–144             | 782.000–783.200               | 752.000–753.200 |
|                  | Valid                 | 145–295             | 783.250–790.750               | 753.250–760.750 |
|                  | Not Valid             | 296–319             | 790.800–791.950               | 760.800–761.950 |
| B<br>(2 MHz)     | Not Valid             | 320–359             | 792.000–793.950               | 762.000–763.950 |

**Table 2.1.8-4. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 7 and Spreading Rate 3**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                 |
|------------------|-----------------------|---------------------|-------------------------------|-----------------|
|                  |                       |                     | Mobile Station                | Base Station    |
| A<br>(1 MHz)     | Not Valid             | 0–19                | 776.000–776.950               | 746.000–746.950 |
| C<br>(5 MHz)     | Not Valid             | 20–69               | 777.000–779.450               | 747.000–749.450 |
|                  | Valid                 | 70                  | 779.500                       | 749.500         |
|                  | Cond. Valid           | 71–119              | 779.550–781.950               | 749.550–751.950 |
| D<br>(10 MHz)    | Cond. Valid           | 120–169             | 782.000–784.450               | 752.000–754.450 |
|                  | Valid                 | 170–270             | 784.500–789.500               | 754.500–759.500 |
|                  | Not Valid             | 271–319             | 789.550–791.950               | 759.550–761.950 |
| B<br>(2 MHz)     | Not Valid             | 320–359             | 792.000–793.950               | 762.000–763.950 |

**Table 2.1.8-5. CDMA Preferred Set of Frequency Assignments for Band Class 7**

| Block Designator | Spreading Rate | Preferred Set Channel Numbers     |
|------------------|----------------|-----------------------------------|
| A                | N/A            | None                              |
| C                | 1              | 45, 70, 95                        |
|                  | 3              | 70                                |
| D                | 1              | 145, 170, 195, 220, 245, 270, 295 |
|                  | 3              | 170, 195, 220, 245, 270           |
| B                | N/A            | None                              |

**Table 2.1.8-6. Sync Channel Preferred Set of Frequency Assignments  
for Spreading Rate 3 for Band Class 7**

| Block Designator | Preferred Set of Channel Numbers |
|------------------|----------------------------------|
| A                | None                             |
| C                | 70                               |
| D                | 170, 245                         |
| B                | None                             |



1 2.1.9 Band Class 8 (1800 MHz Band)

2 The Band Class 8 block designators for the CDMA equipment are not specified. CDMA  
3 equipments supporting Band Class 8 shall be capable of transmitting in Band Class 8.

4 The channel spacing, CDMA channel designations, and transmitter center frequencies of  
5 Band Class 8 shall be as specified in Table 2.1.9-1. CDMA equipments supporting Band  
6 Class 8 and Spreading Rate 1 shall support transmission on the valid channel numbers  
7 shown in Table 2.1.9-2. CDMA equipments supporting Band Class 8 and Spreading Rate 3  
8 shall support transmission on the valid channel numbers shown in Table 2.1.9-3.

9 A preferred set of CDMA frequency assignments is given in Table 2.1.9-4.

10 If the mobile station uses Spreading Rate 1 or Spreading Rate 3 for both Forward and  
11 Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA  
12 Channel designated by  $CDMACH_s$ . If the mobile station uses Spreading Rate 3 for the  
13 Forward Traffic Channel and uses Spreading Rate 1 for the Reverse Traffic Channel, then it  
14 shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  
15  $CDMACH_s - 25$  if  $1XRL\_FREQ\_OFFSET_s$  equals '00', on the CDMA Channel designated by  
16  $CDMACH_s$  if  $1XRL\_FREQ\_OFFSET_s$  equals '01', or on the CDMA Channel designated by  
17  $CDMACH_s + 25$  if  $1XRL\_FREQ\_OFFSET_s$  equals '10'.

18 If the mobile station is transmitting and receiving using the same spreading rate, the  
19 nominal mobile station transmit carrier frequency shall be 95.0 MHz lower than the  
20 frequency of the base station transmit signal as measured at the mobile station receiver. If  
21 the mobile station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3,  
22 the nominal mobile station transmit carrier frequency shall be  $95.0 - 1.25 \times$   
23  $(1XRL\_FREQ\_OFFSET_s - 1)$  MHz lower than the center frequency of the center CDMA  
24 channel transmitted by the base station as measured at the mobile station receiver.

25 At the base station, if a Band Class 8 carrier operates with Spreading Rate 3, then all three  
26 carriers shall be separated by 25 CDMA Channels (1.25 MHz separation).

27  
28 **Table 2.1.9-1. CDMA Channel Number to CDMA Frequency**  
29 **Assignment Correspondence for Band Class 8**

| <b>Transmitter</b> | <b>CDMA Channel Number</b> | <b>Center Frequency for CDMA Channel (MHz)</b> |
|--------------------|----------------------------|--|
| Mobile Station     | $0 \leq N \leq 1499$       | $1710.000 + 0.050 N$                           |
| Base Station       | $0 \leq N \leq 1499$       | $1805.000 + 0.050 N$                           |

30

**Table 2.1.9-2. CDMA Channel Numbers and Corresponding Frequencies for Band Class 8 and Spreading Rate 1**

| CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|-----------------------|---------------------|-------------------------------|-------------------|
|                       |                     | Mobile Station                | Base Station      |
| Not Valid             | 0–24                | 1710.000–1711.200             | 1805.000–1806.200 |
| Valid                 | 25–1475             | 1711.250–1783.750             | 1806.250–1878.750 |
| Not Valid             | 1476–1499           | 1783.800–1784.950             | 1878.800–1879.950 |

Channel numbers less than 1.25 MHz from the licensee's band edge are not valid.

**Table 2.1.9-3. CDMA Channel Numbers and Corresponding Frequencies for Band Class 8 and Spreading Rate 3**

| CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|-----------------------|---------------------|-------------------------------|-------------------|
|                       |                     | Mobile Station                | Base Station      |
| Not Valid             | 0–49                | 1710.000–1712.450             | 1805.000–1807.450 |
| Valid                 | 50–1450             | 1712.500–1782.500             | 1807.500–1877.500 |
| Not Valid             | 1451–1499           | 1782.550–1784.950             | 1877.550–1879.950 |

Channel numbers less than 2.5 MHz from the licensee's band edge are not valid.

**Table 2.1.9-4. CDMA Preferred Set of Frequency Assignments for Band Class 8**

| Spreading Rate | Preferred Set Channel Numbers |
|----------------|-------------------------------|
| 1              | 25, 50,..., 1450, 1475        |
| 3              | 50, 75,..., 1425, 1450        |

#### 2.1.10 Band Class 9 (900 MHz Band)

The Band Class 9 block designators for the CDMA equipment are not specified. CDMA equipments supporting Band Class 9 shall be capable of transmitting in Band Class 9.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 9 shall be as specified in Table 2.1.10-1. CDMA equipments supporting Band Class 9 and Spreading Rate 1 shall support transmission on the valid channel numbers shown in Table 2.1.10-2. CDMA equipments supporting Band Class 9 and Spreading Rate 3 shall support transmission on the valid channel numbers shown in Table 2.1.10-3.

A preferred set of CDMA frequency assignments is given in Table 2.1.10-4.

1 If the mobile station uses Spreading Rate 1 or Spreading Rate 3 for both Forward and  
 2 Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA  
 3 Channel designated by  $CDMACH_s$ . If the mobile station uses Spreading Rate 3 for the  
 4 Forward Traffic Channel and uses Spreading Rate 1 for the Reverse Traffic Channel, then it  
 5 shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  
 6  $CDMACH_s - 25$  if  $1XRL\_FREQ\_OFFSET_s$  equals '00', on the CDMA Channel designated by  
 7  $CDMACH_s$  if  $1XRL\_FREQ\_OFFSET_s$  equals '01', or on the CDMA Channel designated by  
 8  $CDMACH_s + 25$  if  $1XRL\_FREQ\_OFFSET_s$  equals '10'.

9 If the mobile station is transmitting and receiving using the same spreading rate, the  
 10 nominal mobile station transmit carrier frequency shall be 45.0 MHz lower than the  
 11 frequency of the base station transmit signal as measured at the mobile station receiver. If  
 12 the mobile station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3,  
 13 the nominal mobile station transmit carrier frequency shall be  $45.0 - 1.25 \times$   
 14  $(1XRL\_FREQ\_OFFSET_s - 1)$  MHz lower than the center frequency of the center CDMA  
 15 channel transmitted by the base station as measured at the mobile station receiver.

16 At the base station, if a Band Class 9 carrier operates with Spreading Rate 3, then all three  
 17 carriers shall be separated by 25 CDMA Channels (1.25 MHz separation).

18

19 **Table 2.1.10-1. CDMA Channel Number to CDMA Frequency**  
 20 **Assignment Correspondence for Band Class 9**

| Transmitter    | CDMA Channel Number | Center Frequency for CDMA Channel (MHz) |
|----------------|---------------------|---|
| Mobile Station | $0 \leq N \leq 699$ | $880.000 + 0.050 N$                     |
| Base Station   | $0 \leq N \leq 699$ | $925.000 + 0.050 N$                     |

21

22 **Table 2.1.10-2. CDMA Channel Numbers and Corresponding Frequencies**  
 23 **for Band Class 9 and Spreading Rate 1**

| CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                 |
|-----------------------|---------------------|-------------------------------|-----------------|
|                       |                     | Mobile Station                | Base Station    |
| Not Valid             | 0-24                | 880.000-881.200               | 925.000-926.200 |
| Valid                 | 25-675              | 881.250-913.750               | 926.250-958.750 |
| Not Valid             | 676-699             | 913.800-914.950               | 958.800-959.950 |

Channel numbers less than 1.25 MHz from the licensee's band edge are not valid.

24

**Table 2.1.10-3. CDMA Channel Numbers and Corresponding Frequencies for Band Class 9 and Spreading Rate 3**

| CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                 |
|-----------------------|---------------------|-------------------------------|-----------------|
|                       |                     | Mobile Station                | Base Station    |
| Not Valid             | 0–49                | 880.000–882.450               | 925.000–927.450 |
| Valid                 | 50–650              | 882.500–912.500               | 927.500–957.500 |
| Not Valid             | 651–699             | 912.550–914.950               | 957.550–959.950 |

Channel numbers less than 2.5 MHz from the licensee's band edge are not valid.

**Table 2.1.10-4. CDMA Preferred Set of Frequency Assignments for Band Class 9**

| Spreading Rate | Preferred Set Channel Numbers |
|----------------|-------------------------------|
| 1              | 25, 50, ..., 650, 675         |
| 3              | 50, 75, ..., 625, 650         |

#### 2.1.11 Band Class 10 (Secondary 800 MHz Band)

The Band Class 10 system designators for the CDMA equipment shall be as specified in Table 2.1.11-1. There are five band subclasses specified for Band Class 10. CDMA equipments supporting Band Class 10 shall support at least one band subclass belonging to Band Class 10. CDMA equipments supporting Band Class 10 shall be capable of transmitting in Band Class 10.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 10 shall be as specified in Table 2.1.11-2. CDMA equipments supporting Band Class 10 and Spreading Rate 1 shall support transmission on the valid channel numbers shown in Table 2.1.11-3. CDMA equipments supporting Band Class 10 and Spreading Rate 3 shall support operations on the valid channel numbers shown in Table 2.1.11-4.

A preferred set of CDMA frequency assignments is given in Table 2.1.11-5.

A preferred set of Sync Channel frequency assignments for the multi-carrier mode is given in Table 2.1.11-6.

If the mobile station uses Spreading Rate 1 or Spreading Rate 3 for both Forward and Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  $CDMACH_s$ . If the mobile station uses Spreading Rate 3 for the Forward Traffic Channel and uses Spreading Rate 1 for the Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  $CDMACH_s - 50$  if  $1XRL\_FREQ\_OFFSET_s$  equals '00', on the CDMA Channel designated by

1 CDMACH<sub>s</sub> if 1XRL\_FREQ\_OFFSET<sub>s</sub> equals '01', or on the CDMA Channel designated by  
 2 CDMACH<sub>s</sub> + 50 if 1XRL\_FREQ\_OFFSET<sub>s</sub> equals '10'.

3 If the mobile station is transmitting and receiving using the same spreading rate, the  
 4 nominal mobile station transmit carrier frequency shall be 45.0 MHz (Band Subclasses 0,  
 5 1, 2, and 3) or 39.0 MHz (Band Subclass 4) lower than the frequency of the base station  
 6 transmit signal as measured at the mobile station receiver. If the mobile station is  
 7 transmitting on Spreading Rate 1 and receiving on Spreading Rate 3, the nominal mobile  
 8 station transmit carrier frequency shall be  $45.0 - 1.25 \times (1XRL\_FREQ\_OFFSET_s - 1)$  MHz  
 9 (Band Subclass 0, 1, and 2) or  $39.0 - 1.25 \times (1XRL\_FREQ\_OFFSET_s - 1)$  MHz (Band  
 10 Subclass 3) lower than the carrier frequency of the center CDMA channel transmitted by  
 11 the base station as measured at the mobile station receiver.

12 At the base station, if a Band Class 10 carrier operates with Spreading Rate 3, then all  
 13 three carriers shall be separated by 50 CDMA Channels (1.25 MHz separation).

14  
 15 **Table 2.1.11-1. Band Class 10 System Frequency Correspondence**

| System Designator | Band Subclass | Transmit Frequency Band (MHz) |                 |
|-------------------|---------------|-------------------------------|-----------------|
|                   |               | Mobile Station                | Base Station    |
| A                 | 0             | 806.000–810.975               | 851.000–855.975 |
| B                 | 1             | 811.000–815.975               | 856.000–860.975 |
| C                 | 2             | 816.000–820.975               | 861.000–865.975 |
| D                 | 3             | 821.000–823.975               | 866.000–868.975 |
| E                 | 4             | 896.000–900.975               | 935.000–939.975 |

16  
 17 **Table 2.1.11-2. CDMA Channel Number to CDMA Frequency**  
 18 **Assignment Correspondence for Band Class 10**

| Transmitter    | CDMA Channel Number   | Center Frequency for CDMA Channel (MHz) |
|----------------|-----------------------|---|
| Mobile Station | $0 \leq N \leq 719$   | $0.025 N + 806.000$                     |
|                | $720 \leq N \leq 919$ | $0.025 (N - 720) + 896.000$             |
| Base Station   | $0 \leq N \leq 719$   | $0.025 N + 851.000$                     |
|                | $720 \leq N \leq 919$ | $0.025 (N - 720) + 935.000$             |

**Table 2.1.11-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 10 and Spreading Rate 1**

| Band Subclass | System Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                 |
|---------------|-------------------|-----------------------|---------------------|-------------------------------|-----------------|
|               |                   |                       |                     | Mobile Station                | Base Station    |
| 0             | A                 | Not Valid             | 0–49                | 806.000–807.225               | 851.000–852.225 |
|               |                   | Valid                 | 50–150              | 807.250–809.750               | 852.250–854.750 |
|               |                   | Cond. Valid           | 151–199             | 809.775–810.975               | 854.775–855.975 |
| 1             | B                 | Cond. Valid           | 200–249             | 811.000–812.225               | 856.000–857.225 |
|               |                   | Valid                 | 250–350             | 812.250–814.750               | 857.250–859.750 |
|               |                   | Cond. Valid           | 351–399             | 814.775–815.975               | 859.775–860.975 |
| 2             | C                 | Cond. Valid           | 400–449             | 816.000–817.225               | 861.000–862.225 |
|               |                   | Valid                 | 450–550             | 817.250–819.750               | 862.250–864.750 |
|               |                   | Cond. Valid           | 551–599             | 819.775–820.975               | 864.775–865.975 |
| 3             | D                 | Cond. Valid           | 600–649             | 821.000–822.225               | 866.000–867.225 |
|               |                   | Valid                 | 650–670             | 822.250–822.750               | 867.250–867.750 |
|               |                   | Not Valid             | 671–719             | 822.775–823.975               | 867.775–868.975 |
| 4             | E                 | Not Valid             | 720–769             | 896.000–897.225               | 935.000–936.225 |
|               |                   | Valid                 | 770–870             | 897.250–899.750               | 936.250–938.750 |
|               |                   | Not Valid             | 871–919             | 899.775–900.975               | 938.775–939.975 |

1  
2**Table 2.1.11-4. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 10 and Spreading Rate 3**

| Band Subclass | System Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                 |
|---------------|-------------------|-----------------------|---------------------|-------------------------------|-----------------|
|               |                   |                       |                     | Mobile Station                | Base Station    |
| 0             | A                 | Not Valid             | 0–99                | 806.000–808.475               | 851.000–853.475 |
|               |                   | Valid                 | 100                 | 808.500                       | 853.500         |
|               |                   | Cond. Valid           | 101–199             | 808.525–810.975               | 853.525–855.975 |
| 1             | B                 | Cond. Valid           | 200–299             | 811.000–813.475               | 856.000–858.475 |
|               |                   | Valid                 | 300                 | 813.500                       | 858.500         |
|               |                   | Cond. Valid           | 301–399             | 813.525–815.975               | 858.525–860.975 |
| 2             | C                 | Cond. Valid           | 400–499             | 816.000–818.475               | 861.000–863.475 |
|               |                   | Valid                 | 500                 | 818.500                       | 863.500         |
|               |                   | Cond. Valid           | 501–599             | 818.525–820.975               | 863.525–865.975 |
| 3             | D                 | Cond. Valid           | 600–620             | 821.000–821.500               | 866.000–866.500 |
|               |                   | Not Valid             | 621–719             | 821.525–823.975               | 866.525–868.975 |
| 4             | E                 | Not Valid             | 720–769             | 896.000–897.225               | 935.000–936.225 |
|               |                   | Valid                 | 770–870             | 897.250–99.750                | 936.250–938.750 |
|               |                   | Not Valid             | 871–919             | 899.775–900.975               | 938.775–939.975 |

3  
4**Table 2.1.11-5. CDMA Preferred Set of Frequency Assignments for Band Class 10**

| Band Subclass | System Designator | Spreading Rate | Preferred Set Channel Numbers |
|---------------|-------------------|----------------|-------------------------------|
| 0             | A                 | 1              | 50, 100, 150                  |
|               |                   | 3              | 100                           |
| 1             | B                 | 1              | 250, 300, 350                 |
|               |                   | 3              | 300                           |
| 2             | C                 | 1              | 450, 500, 550                 |
|               |                   | 3              | 500                           |
| 3             | D                 | 1              | 650, 670                      |
|               |                   | 3              | Not applicable                |
| 4             | E                 | 1              | 770, 820, 870                 |
|               |                   | 3              | 820                           |

5

**Table 2.1.11-6. Sync Channel Preferred Set of Frequency Assignments  
for Spreading Rate 3 for Band Class 10**

| <b>Band Subclass</b> | <b>System Designator</b> | <b>Preferred Set of Channel Numbers</b> |
|----------------------|--------------------------|---|
| 0                    | A                        | 150                                     |
| 1                    | B                        | 300                                     |
| 2                    | C                        | 450, 500                                |
| 3                    | D                        | Not applicable                          |
| 4                    | E                        | 820                                     |

#### 2.1.12 Band Class 11 (400 MHz European PAMR Band)

The Band Class 11 block designators for the CDMA equipment shall be as specified in Table 2.1.12-1. There are twelve band subclasses specified for Band Class 11. Each band subclass corresponds to a specific block designator (see Table 2.1.12-1). Each band subclass includes all the channels designated for that block. CDMA equipments supporting Band Class 11 shall be capable of transmitting in at least one band subclass belonging to Band Class 11. For CDMA equipments capable of transmitting in more than one band subclass belonging to Band Class 11, one band subclass shall be designated as the Primary Band Subclass, which is the band subclass used by the CDMA equipment's home system.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 11 shall be as specified in Table 2.1.12-2. Note that certain channel assignments are not valid and others are conditionally valid. Mobile stations supporting Band Class 11 and Spreading Rate 1 shall support operations on the valid and conditionally valid channel numbers of the supported blocks shown in Table 2.1.12-3. Base stations supporting Band Class 11 and Spreading Rate 1 shall support operations on the valid and may support operations on the conditionally valid channel numbers of the supported blocks shown in Table 2.1.12-3. Transmission on conditionally valid channels is permissible if the adjacent block is allocated to the same licensee or if other valid authorization has been obtained. CDMA equipments supporting Band Class 11 and Spreading Rate 3 shall support operation on the valid channel numbers of the supported blocks shown in Table 2.1.12-4.

A preferred set of CDMA frequency assignments is given in Table 2.1.12-5.

A preferred set of Sync Channel frequency assignments for the multi-carrier mode is given in Table 2.1.12-6.

If the mobile station uses Spreading Rate 1 or Spreading Rate 3 for both Forward and Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  $CDMACH_s$ . If the mobile station uses Spreading Rate 3 for the Forward Traffic Channel and uses Spreading Rate 1 for the Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA Channel designated by



1 CDMACH<sub>s</sub> – 50 if 1XRL\_FREQ\_OFFSET<sub>s</sub> equals '00', on the CDMA Channel designated by  
 2 CDMACH<sub>s</sub> if 1XRL\_FREQ\_OFFSET<sub>s</sub> equals '01', or on the CDMA Channel designated by  
 3 CDMACH<sub>s</sub> + 50 if 1XRL\_FREQ\_OFFSET<sub>s</sub> equals '10'.

4 If the mobile station is transmitting and receiving using the same spreading rate, the  
 5 nominal mobile station transmit carrier frequency shall be 10.0 MHz lower than the  
 6 frequency of the base station transmit signal as measured at the mobile station receiver. If  
 7 the mobile station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3,  
 8 the nominal mobile station transmit carrier frequency shall be 10.0 – 1.25 ×  
 9 (1XRL\_FREQ\_OFFSET<sub>s</sub> – 1) MHz lower than the frequency of the base station transmit  
 10 signal as measured at the mobile station receiver.

11 At the base station, if a Band Class 11 carrier operates with Spreading Rate 3, then all  
 12 three carriers shall be separated by 50 CDMA Channels (1.25 MHz separation).

13  
 14 **Table 2.1.12-1. Band Class 11 Block Frequency**  
 15 **Correspondence and Band Subclasses**

| Block Designator | Band Subclass | Transmit Frequency Band (MHz) |                 |
|------------------|---------------|-------------------------------|-----------------|
|                  |               | Mobile Station                | Base Station    |
| A                | 0             | 452.500–457.475               | 462.500–467.475 |
| B                | 1             | 452.000–456.475               | 462.000–466.475 |
| C                | 2             | 450.000–454.800               | 460.000–464.800 |
| D                | 3             | 411.675–415.850               | 421.675–425.850 |
| E                | 4             | 415.500–419.975               | 425.500–429.975 |
| F                | 5             | Not specified                 | Not specified   |
| G                | 6             | Not specified                 | Not specified   |
| H                | 7             | Not specified                 | Not specified   |
| I                | 8             | 451.325–455.725               | 461.325–465.725 |
| J                | 9             | 455.250–459.975               | 465.250–469.975 |
| K                | 10            | 479.000–483.475               | 489.000–493.475 |
| L                | 11            | 410.000–414.975               | 420.000–424.975 |

1  
2

**Table 2.1.12-2. CDMA Channel Number to CDMA Frequency  
Assignment Correspondence for Band Class 11**

| <b>Transmitter</b> | <b>CDMA Channel Number</b> | <b>Center Frequency for CDMA Channel (MHz)</b> |
|--------------------|----------------------------|--|
| Mobile Station     | $1 \leq N \leq 400$        | $0.025 (N - 1) + 450.000$                      |
|                    | $472 \leq N \leq 871$      | $0.025 (N - 472) + 410.000$                    |
|                    | $1039 \leq N \leq 1473$    | Reserved                                       |
|                    | $1536 \leq N \leq 1715$    | $0.025 (N - 1536) + 479.000$                   |
|                    | $1792 \leq N \leq 2016$    | Reserved                                       |
| Base Station       | $1 \leq N \leq 400$        | $0.025 (N - 1) + 460.000$                      |
|                    | $472 \leq N \leq 871$      | $0.025 (N - 472) + 420.000$                    |
|                    | $1039 \leq N \leq 1473$    | Reserved                                       |
|                    | $1536 \leq N \leq 1715$    | $0.025 (N - 1536) + 489.000$                   |
|                    | $1792 \leq N \leq 2016$    | Reserved                                       |

3

1  
2

**Table 2.1.12-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 11 and Spreading Rate 1**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                 |
|------------------|-----------------------|---------------------|-------------------------------|-----------------|
|                  |                       |                     | Mobile Station                | Base Station    |
| A<br>(4.5 MHz)   | Not Valid             | 121–125             | 453.000–453.100               | 463.000–463.100 |
|                  | Cond. Valid           | 126–145             | 453.125–453.600               | 463.125–463.600 |
|                  | Valid                 | 146–275             | 453.625–456.850               | 463.625–466.850 |
|                  | Not Valid             | 276–300             | 456.875–457.475               | 466.875–467.475 |
| A'<br>(0.5 MHz)  | Not Valid             | 101–120             | 452.500–452.975               | 462.500–462.975 |
| B<br>(4.5 MHz)   | Not Valid             | 81–105              | 452.000–452.600               | 462.000–462.600 |
|                  | Valid                 | 106–235             | 452.625–455.850               | 462.625–465.850 |
|                  | Not Valid             | 236–260             | 455.875–456.475               | 465.875–466.475 |
| C<br>(4.8 MHz)   | Not Valid             | 1–25                | 450.000–450.600               | 460.000–460.600 |
|                  | Valid                 | 26–168              | 450.625–454.175               | 460.625–464.175 |
|                  | Not Valid             | 169–193             | 454.200–454.800               | 464.200–464.800 |
| D<br>(4.2 MHz)   | Not Valid             | 539–563             | 411.675–412.275               | 421.675–422.275 |
|                  | Valid                 | 564–681             | 412.300–415.225               | 422.300–425.225 |
|                  | Not Valid             | 682–706             | 415.250–415.850               | 425.250–425.850 |
| E<br>(4.5 MHz)   | Not Valid             | 692–716             | 415.500–416.100               | 425.500–426.100 |
|                  | Valid                 | 717–846             | 416.125–419.350               | 426.125–429.350 |
|                  | Not Valid             | 847–871             | 419.375–419.975               | 429.375–429.975 |
| F                | Not specified         | Not specified       | Not specified                 | Not specified   |
| G                | Not specified         | Not specified       | Not specified                 | Not specified   |
| H                | Not specified         | Not specified       | Not specified                 | Not specified   |
| I<br>(4.425 MHz) | Not Valid             | 54–78               | 451.325–451.925               | 461.325–461.925 |
|                  | Valid                 | 79–205              | 451.950–455.100               | 461.950–465.100 |
|                  | Not Valid             | 206–230             | 455.125–455.725               | 465.125–465.725 |
| J<br>(4.75 MHz)  | Not Valid             | 211–234             | 455.250–455.825               | 465.250–465.825 |
|                  | Valid                 | 235–376             | 455.850–459.375               | 465.850–469.375 |
|                  | Not Valid             | 377–400             | 459.400–459.975               | 469.400–469.975 |
| K<br>(4.5 MHz)   | Not Valid             | 1536–1560           | 479.000–479.600               | 489.000–489.600 |
|                  | Valid                 | 1561–1690           | 479.625–482.850               | 489.625–492.850 |
|                  | Not Valid             | 1691–1715           | 482.875–483.475               | 492.875–493.475 |
| L<br>(4.5 MHz)   | Not Valid             | 472–504             | 410.000–410.800               | 420.000–420.800 |
|                  | Valid                 | 505–646             | 410.825–414.350               | 420.825–424.350 |
|                  | Not Valid             | 647–671             | 414.375–414.975               | 424.375–424.975 |

3

**Table 2.1.12-4. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 11 and Spreading Rate 3**

| Block Designator | CDMA Channel Validity           | CDMA Channel Number            | Transmit Frequency Band (MHz)                 |   |
|------------------|---------------------------------|--------------------------------|---|---|
|                  |                                 |                                | Mobile Station                                | Base Station                                  |
| A<br>(4.5 MHz)   | Not Valid<br>Valid<br>Not Valid | 121-209<br>210<br>211-300      | 453.000-455.200<br>455.225<br>455.250-457.475 | 463.000-465.200<br>465.225<br>465.250-467.475 |
| A'<br>(0.5 MHz)  | Not Valid                       | 101-120                        | 452.500-452.975                               | 462.500-462.975                               |
| B<br>(4.5 MHz)   | Not Valid<br>Valid<br>Not Valid | 81-169<br>170<br>171-260       | 452.000-454.200<br>454.225<br>454.250-456.475 | 462.000-464.200<br>464.225<br>464.250-466.475 |
| C<br>(4.8 MHz)   | Not Valid<br>Valid<br>Not Valid | 1-96<br>97<br>98-193           | 450.000-452.375<br>452.400<br>452.425-454.800 | 460.000-462.375<br>462.400<br>462.425-464.800 |
| D<br>(4.2 MHz)   | Not Valid                       | 539-706                        | 411.675-415.850                               | 421.675-425.850                               |
| E<br>(4.5 MHz)   | Not Valid<br>Valid<br>Not Valid | 692-780<br>781<br>782-871      | 415.500-417.700<br>417.725<br>417.750-419.975 | 425.500-427.700<br>427.725<br>427.750-429.975 |
| F                | Not specified                   | Not specified                  | Not specified                                 | Not specified                                 |
| G                | Not specified                   | Not specified                  | Not specified                                 | Not specified                                 |
| H                | Not specified                   | Not specified                  | Not specified                                 | Not specified                                 |
| I<br>(4.425 MHz) | Not Valid<br>Valid<br>Not Valid | 54-141<br>142<br>143-230       | 451.325-453.500<br>453.525<br>453.550-455.725 | 461.325-463.500<br>463.525<br>463.550-465.725 |
| J<br>(4.75 MHz)  | Not Valid<br>Valid<br>Not Valid | 211-304<br>305<br>306-400      | 455.250-457.575<br>457.600<br>457.625-459.975 | 465.250-467.575<br>467.600<br>467.625-469.975 |
| K<br>(4.5 MHz)   | Not Valid<br>Valid<br>Not Valid | 1536-1624<br>1625<br>1626-1715 | 479.000-481.200<br>481.225<br>481.250-483.475 | 489.000-491.200<br>491.225<br>491.250-493.475 |
| L<br>(4.5 MHz)   | Not Valid                       | 472-671                        | 410.000-414.975                               | 420.000-424.975                               |

1 **Table 2.1.12-5. CDMA Preferred Set of Frequency Assignments for Band Class 11**

| <b>Block Designator</b> | <b>Preferred Set Channel Numbers</b> |
|-------------------------|--------------------------------------|
| A                       | 160, 210*, 260                       |
| B                       | 120, 170, 220*                       |
| C                       | 47, 97, 147*                         |
| D                       | 573, 623, 673*                       |
| E                       | 731*, 781, 831                       |
| F                       | Not specified                        |
| G                       | Not specified                        |
| H                       | Not specified                        |
| I                       | 92, 142, 192*                        |
| J                       | 255*, 305, 355                       |
| K                       | 1575*, 1625, 1675                    |
| L                       | Not Specified                        |

\* CDMA frequency assignments that support inter-block roaming

2

3

4

**Table 2.1.12-6. Sync Channel Preferred Set of Frequency Assignments for Spreading Rate 3 for Band Class 11**

| <b>Block Designator</b> | <b>Preferred Set Channel Numbers</b> |
|-------------------------|--------------------------------------|
| A                       | 210                                  |
| B                       | 220                                  |
| C                       | 147                                  |
| E                       | 731                                  |
| F                       | Not specified                        |
| G                       | Not specified                        |
| H                       | Not specified                        |
| I                       | 192                                  |
| J                       | 255                                  |
| K                       | 1575                                 |
| L                       | Not Specified                        |

5

## 1 2.1.13 Band Class 12 (800 MHz PAMR Band)

2 The Band Class 12 block designators for the CDMA equipment shall be as specified in  
3 Table 2.1.13-1. There are three band subclasses specified for Band Class 12. Each band  
4 subclass corresponds to a specific block designator (see Table 2.1.13-1). Each band  
5 subclass includes all the channels designated for that block. CDMA equipments supporting  
6 Band Class 12 shall be capable of transmitting in at least one band subclass belonging to  
7 Band Class 12. For CDMA equipments capable of transmitting in more than one band  
8 subclass belonging to Band Class 12, one band subclass shall be designated as the  
9 Primary Band Subclass, which is the band subclass used by the CDMA equipment's home  
10 system.

11 The channel spacing, CDMA channel designations, and transmitter center frequencies of  
12 Band Class 12 shall be as specified in Table 2.1.13-2. Note that certain channel  
13 assignments are not valid and others are conditionally valid. Mobile stations supporting  
14 Band Class 12 and Spreading Rate 1 shall support operations on the valid and  
15 conditionally valid channel numbers shown in Table 2.1.13-3. Base stations supporting  
16 Band Class 12 and Spreading Rate 1 shall support operations on the valid and may  
17 support operations on the conditionally valid channel numbers shown in Table  
18 2.1.13-3. Mobile stations supporting Band Class 12 and Spreading Rate 3 shall support  
19 operations on the valid and conditionally valid channel numbers shown in Table  
20 2.1.13-4. Base stations supporting Band Class 12 and Spreading Rate 3 shall support  
21 operations on the valid and may support operations on the conditionally valid channel  
22 numbers shown in Table 2.1.13-4. Transmission on conditionally valid channels is  
23 permissible if the adjacent block is allocated to the same licensee or if other valid  
24 authorization has been obtained.

25 A preferred set of CDMA frequency assignments is given in Table 2.1.13-5.

26 If the mobile station uses Spreading Rate 1 or Spreading Rate 3 for both Forward and  
27 Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA  
28 Channel designated by  $CDMACH_s$ . If the mobile station uses Spreading Rate 3 for the  
29 Forward Traffic Channel and uses Spreading Rate 1 for the Reverse Traffic Channel, then it  
30 shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  
31  $CDMACH_s - 50$  if  $1XRL\_FREQ\_OFFSET_s$  equals '00', on the CDMA Channel designated by  
32  $CDMACH_s$  if  $1XRL\_FREQ\_OFFSET_s$  equals '01', or on the CDMA Channel designated by  
33  $CDMACH_s + 50$  if  $1XRL\_FREQ\_OFFSET_s$  equals '10'.

34 If the mobile station is transmitting and receiving using the same spreading rate, the  
35 nominal mobile station transmit carrier frequency shall be 45.0 MHz lower than the  
36 frequency of the base station transmit signal as measured at the mobile station receiver. If  
37 the mobile station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3,  
38 the nominal mobile station transmit carrier frequency shall be  $45.0 - 1.25 \times$   
39  $(1XRL\_FREQ\_OFFSET_s - 1)$  MHz lower than the center frequency of the center CDMA  
40 channel transmitted by the base station as measured at the mobile station receiver.

41 At the base station, if a Band Class 12 carrier operates with Spreading Rate 3, then all  
42 three carriers shall be separated by 50 CDMA Channels (1.25 MHz separation).

43

1 **Table 2.1.13-1. Band Class 12 Block Frequency Correspondence and Band Subclasses**

| Block Designator | Band Subclass | Transmit Frequency Band (MHz) |                   |
|------------------|---------------|-------------------------------|-------------------|
|                  |               | Mobile Station                | Base Station      |
| A                | 0             | 870.0125–875.9875             | 915.0125–920.9875 |
| B                | 1             | 871.5125–874.4875             | 916.5125–919.4875 |
| C                | 2             | 870.0125–875.9875             | 915.0125–920.9875 |

2  
3 **Table 2.1.13-2. CDMA Channel Number to CDMA Frequency**  
4 **Assignment Correspondence for Band Class 12**

| Transmitter    | CDMA Channel Number | Center Frequency for CDMA Channel (MHz) |
|----------------|---------------------|---|
| Mobile Station | $0 \leq N \leq 239$ | $870.0125 + 0.025 N$                    |
| Base Station   | $0 \leq N \leq 239$ | $915.0125 + 0.025 N$                    |

5  
6 **Table 2.1.13-3. CDMA Channel Numbers and Corresponding Frequencies**  
7 **for Band Class 12 and Spreading Rate 1**

| Block Designator | Valid CDMA Frequency Assignment | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|------------------|---------------------------------|---------------------|-------------------------------|-------------------|
|                  |                                 |                     | Mobile Station                | Base Station      |
| A<br>(6MHz)      | Not Valid                       | 0–64                | 870.0125–871.6125             | 915.0125–916.6125 |
|                  | Valid                           | 65–214              | 871.6375–875.3625             | 916.6375–920.3625 |
|                  | Not Valid                       | 215–239             | 875.3875–875.9875             | 920.3875–920.9875 |
| B<br>(3 MHz)     | Not Valid                       | 60–93               | 871.5125–872.3375             | 916.5125–917.3375 |
|                  | Valid                           | 94–144              | 872.3625–873.6125             | 917.3625–918.6125 |
|                  | Not Valid                       | 145–179             | 873.6375–874.4875             | 918.6375–919.4875 |
| C<br>(6MHz)      | Not Valid                       | 0–24                | 870.0125–870.6125             | 915.0125–915.6125 |
|                  | Cond. Valid                     | 25–104              | 870.6375–872.6125             | 915.6375–917.6125 |
|                  | Valid                           | 105–206             | 872.6375–875.1625             | 917.6375–920.1625 |
|                  | Cond. Valid                     | 207–214             | 875.1875–875.3625             | 920.1875–920.3625 |
|                  | Not Valid                       | 215–239             | 875.3875–875.9875             | 920.3875–920.9875 |

**Table 2.1.13-4. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 12 and Spreading Rate 3**

| Block Designator | Valid CDMA Frequency Assignment | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|------------------|---------------------------------|---------------------|-------------------------------|-------------------|
|                  |                                 |                     | Mobile Station                | Base Station      |
| A<br>(6MHz)      | Not Valid                       | 0-138               | 870.0125-873.4625             | 915.0125-918.4625 |
|                  | Valid                           | 139                 | 873.4875                      | 918.4875          |
|                  | Not Valid                       | 140-239             | 873.5125-875.9875             | 918.5125-920.9875 |
| B<br>(3 MHz)     | Not Valid                       | 60-179              | 871.5125-874.4875             | 916.5125-919.4875 |
| C<br>(6 MHz)     | Not Valid                       | 0-98                | 870.0125-872.4625             | 915.0125-917.4625 |
|                  | Cond. Valid                     | 99-155              | 872.4875-873.8875             | 917.4875-918.8875 |
|                  | Valid                           | 156                 | 873.9125                      | 918.9125          |
|                  | Not Valid                       | 157-239             | 873.9375-875.9875             | 918.9375-920.9875 |

**Table 2.1.13-5. CDMA Preferred Set of Frequency Assignments for Band Class 12**

| Block Designator | Spreading Rate | Preferred Set Channel Numbers |
|------------------|----------------|-------------------------------|
| A                | 1              | 89, 139, 189                  |
|                  | 3              | 139                           |
| B                | 1              | 94, 144                       |
|                  | 3              | None                          |
| C                | 1              | 106, 156, 206                 |
|                  | 3              | 156                           |

#### 2.1.14 Band Class 13 (2.5 GHz IMT-2000 Extension Band)

The Band Class 13 block designators for the CDMA equipment shall be as specified in Table 2.1.14-1.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 13 shall be as specified in Table 2.1.14-2. CDMA equipment supporting Band Class 13 and Spreading Rate 1 shall support transmission on the valid and conditionally valid channel numbers shown in Table 2.1.14-3. CDMA equipment supporting Band Class 13 and Spreading Rate 3 shall support transmission on the valid and conditionally valid channel numbers shown in Table 2.1.14-4. Note that certain channel assignments are not valid and others are conditionally valid. Transmission on conditionally valid channels is permissible if the adjacent block is allocated to the same licensee or if other valid authorization has been obtained.



1 A preferred set of CDMA frequency assignments is given in Table 2.1.14-5. Preferred Sync  
2 Channel frequency assignments for the multi-carrier mode are given in Table 2.1.14-6.

3 If the mobile station uses Spreading Rate 1 or Spreading Rate 3 for both Forward and  
4 Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA  
5 Channel designated by  $CDMACH_s$ . If the mobile station uses Spreading Rate 3 for the  
6 Forward Traffic Channel and uses Spreading Rate 1 for the Reverse Traffic Channel, then it  
7 shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  
8  $CDMACH_s - 25$  if  $1XRL\_FREQ\_OFFSET_s$  equals '00', on the CDMA Channel designated by  
9  $CDMACH_s$  if  $1XRL\_FREQ\_OFFSET_s$  equals '01', or on the CDMA Channel designated by  
10  $CDMACH_s + 25$  if  $1XRL\_FREQ\_OFFSET_s$  equals '10'.

11 If the mobile station is transmitting and receiving using the same spreading rate, the  
12 nominal mobile station transmit carrier frequency shall be 120.0 MHz lower than the  
13 frequency of the base station transmit signal as measured at the mobile station receiver. If  
14 the mobile station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3,  
15 the nominal mobile station transmit carrier frequency shall be  $120.0 - 1.25 \times$   
16  $(1XRL\_FREQ\_OFFSET_s - 1)$  MHz lower than the center frequency of the center CDMA  
17 channel transmitted by the base station as measured at the mobile station receiver.

18 At the base station, if a Band Class 13 carrier operates with Spreading Rate 3, then all  
19 three carriers shall be separated by 25 CDMA Channels (1.25 MHz separation).

20

21

**Table 2.1.14-1. Band Class 13 Block Frequency Correspondence**

| Block Designator | Transmit Frequency Band (MHz) |              |
|------------------|-------------------------------|--------------|
|                  | Mobile Station                | Base Station |
| A                | 2500–2505                     | 2620–2625    |
| B                | 2505–2510                     | 2625–2630    |
| C                | 2510–2515                     | 2630–2635    |
| D                | 2515–2520                     | 2635–2640    |
| E                | 2520–2525                     | 2640–2645    |
| F                | 2525–2530                     | 2645–2650    |
| G                | 2530–2535                     | 2650–2655    |
| H                | 2535–2540                     | 2655–2660    |
| I                | 2540–2545                     | 2660–2665    |
| J                | 2545–2550                     | 2665–2670    |
| K                | 2550–2555                     | 2670–2675    |
| L                | 2555–2560                     | 2675–2680    |
| M                | 2560–2565                     | 2680–2685    |
| N                | 2565–2570                     | 2685–2690    |

1

2

3

**Table 2.1.14-2. CDMA Channel Number to CDMA Frequency  
Assignment Correspondence for Band Class 13**

| <b>Transmitter</b> | <b>CDMA Channel<br/>Number</b> | <b>Center Frequency for<br/>CDMA Channel (MHz)</b> |
|--------------------|--------------------------------|--|
| Mobile Station     | $0 \leq N \leq 1399$           | $2500.000 + 0.050 N$                               |
| Base Station       | $0 \leq N \leq 1399$           | $2620.000 + 0.050 N$                               |

4

1  
2

**Table 2.1.14-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 13 and Spreading Rate 1**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|------------------|-----------------------|---------------------|-------------------------------|-------------------|
|                  |                       |                     | Mobile Station                | Base Station      |
| A<br>(5 MHz)     | Not Valid             | 0–24                | 2500.000–2501.200             | 2620.000–2621.200 |
|                  | Valid                 | 25–75               | 2501.250–2503.750             | 2621.250–2623.750 |
|                  | Cond. Valid           | 76–99               | 2503.800–2504.950             | 2623.800–2624.950 |
| B<br>(5 MHz)     | Cond. Valid           | 100–124             | 2505.000–2506.200             | 2625.000–2626.200 |
|                  | Valid                 | 125–175             | 2506.250–2508.750             | 2626.250–2628.750 |
|                  | Cond. Valid           | 176–199             | 2508.800–2509.950             | 2628.800–2629.950 |
| C<br>(5 MHz)     | Cond. Valid           | 200–224             | 2510.000–2511.200             | 2630.000–2631.200 |
|                  | Valid                 | 225–275             | 2511.250–2513.750             | 2631.250–2633.750 |
|                  | Cond. Valid           | 276–299             | 2513.800–2514.950             | 2633.800–2634.950 |
| D<br>(5 MHz)     | Cond. Valid           | 300–324             | 2515.000–2516.200             | 2635.000–2636.200 |
|                  | Valid                 | 325–375             | 2516.250–2518.750             | 2636.250–2638.750 |
|                  | Cond. Valid           | 376–399             | 2518.800–2519.950             | 2638.800–2639.950 |
| E<br>(5 MHz)     | Cond. Valid           | 400–424             | 2520.000–2521.200             | 2640.000–2641.200 |
|                  | Valid                 | 425–475             | 2521.250–2523.750             | 2641.250–2643.750 |
|                  | Cond. Valid           | 476–499             | 2523.800–2524.950             | 2643.800–2644.950 |
| F<br>(5 MHz)     | Cond. Valid           | 500–524             | 2525.000–2526.200             | 2645.000–2646.200 |
|                  | Valid                 | 525–575             | 2526.250–2528.750             | 2646.250–2648.750 |
|                  | Cond. Valid           | 576–599             | 2528.800–2529.950             | 2648.800–2649.950 |
| G<br>(5 MHz)     | Cond. Valid           | 600–624             | 2530.000–2531.200             | 2650.000–2651.200 |
|                  | Valid                 | 625–675             | 2531.250–2533.750             | 2651.250–2653.750 |
|                  | Cond. Valid           | 676–699             | 2533.800–2534.950             | 2653.800–2654.950 |
| H<br>(5 MHz)     | Cond. Valid           | 700–724             | 2535.000–2536.200             | 2655.000–2656.200 |
|                  | Valid                 | 725–775             | 2536.250–2538.750             | 2656.250–2658.750 |
|                  | Cond. Valid           | 776–799             | 2538.800–2539.950             | 2658.800–2659.950 |
| I<br>(5 MHz)     | Cond. Valid           | 800–824             | 2540.000–2541.200             | 2660.000–2661.200 |
|                  | Valid                 | 825–875             | 2541.250–2543.750             | 2661.250–2663.750 |
|                  | Cond. Valid           | 876–899             | 2543.800–2544.950             | 2663.800–2664.950 |
| J<br>(5 MHz)     | Cond. Valid           | 900–924             | 2545.000–2546.200             | 2665.000–2666.200 |
|                  | Valid                 | 925–975             | 2546.250–2548.750             | 2666.250–2668.750 |
|                  | Cond. Valid           | 976–999             | 2548.800–2549.950             | 2668.800–2669.950 |
| K<br>(5 MHz)     | Cond. Valid           | 1000–1024           | 2550.000–2551.200             | 2670.000–2671.200 |
|                  | Valid                 | 1025–1075           | 2551.250–2553.750             | 2671.250–2673.750 |
|                  | Cond. Valid           | 1076–1099           | 2553.800–2554.950             | 2673.800–2674.950 |
| L<br>(5 MHz)     | Cond. Valid           | 1100–1124           | 2555.000–2556.200             | 2675.000–2676.200 |
|                  | Valid                 | 1125–1175           | 2556.250–2558.750             | 2676.250–2678.750 |
|                  | Cond. Valid           | 1176–1199           | 2558.800–2559.950             | 2678.800–2679.950 |

| <b>Block Designator</b> | <b>CDMA Channel Validity</b> | <b>CDMA Channel Number</b> | <b>Transmit Frequency Band (MHz)</b> |                     |
|-------------------------|------------------------------|----------------------------|--------------------------------------|---------------------|
|                         |                              |                            | <b>Mobile Station</b>                | <b>Base Station</b> |
| M<br>(5 MHz)            | Cond. Valid                  | 1200-1224                  | 2560.000-2561.200                    | 2680.000-2681.200   |
|                         | Valid                        | 1225-1275                  | 2561.250-2563.750                    | 2681.250-2683.750   |
|                         | Cond. Valid                  | 1276-1299                  | 2563.800-2564.950                    | 2683.800-2684.950   |
| N<br>(5 MHz)            | Cond. Valid                  | 1300-1324                  | 2565.000-2566.200                    | 2685.000-2686.200   |
|                         | Valid                        | 1325-1375                  | 2566.250-2568.750                    | 2686.250-2688.750   |
|                         | Not Valid                    | 1376-1399                  | 2568.800-2569.950                    | 2688.800-2689.950   |

1  
2

**Table 2.1.14-4. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 13 and Spreading Rate 3**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|------------------|-----------------------|---------------------|-------------------------------|-------------------|
|                  |                       |                     | Mobile Station                | Base Station      |
| A<br>(5 MHz)     | Not Valid             | 0–49                | 2500.000–2502.450             | 2620.000–2622.450 |
|                  | Valid                 | 50                  | 2502.500                      | 2622.500          |
|                  | Cond. Valid           | 51–99               | 2502.550–2504.950             | 2622.550–2624.950 |
| B<br>(5 MHz)     | Cond. Valid           | 100–149             | 2505.000–2507.450             | 2625.000–2627.450 |
|                  | Valid                 | 150                 | 2507.500                      | 2627.500          |
|                  | Cond. Valid           | 151–199             | 2507.550–2509.950             | 2627.550–2629.950 |
| C<br>(5 MHz)     | Cond. Valid           | 200–249             | 2510.000–2512.450             | 2630.000–2632.450 |
|                  | Valid                 | 250                 | 2512.500                      | 2632.500          |
|                  | Cond. Valid           | 251–299             | 2512.550–2514.950             | 2632.550–2634.950 |
| D<br>(5 MHz)     | Cond. Valid           | 300–349             | 2515.000–2517.450             | 2635.000–2637.450 |
|                  | Valid                 | 350                 | 2517.500                      | 2637.500          |
|                  | Cond. Valid           | 351–399             | 2517.550–2519.950             | 2637.550–2639.950 |
| E<br>(5 MHz)     | Cond. Valid           | 400–449             | 2520.000–2522.450             | 2640.000–2642.450 |
|                  | Valid                 | 450                 | 2522.500                      | 2642.500          |
|                  | Cond. Valid           | 451–499             | 2522.550–2524.950             | 2642.550–2644.950 |
| F<br>(5 MHz)     | Cond. Valid           | 500–549             | 2525.000–2527.450             | 2645.000–2647.450 |
|                  | Valid                 | 550                 | 2527.500                      | 2647.500          |
|                  | Cond. Valid           | 551–599             | 2527.550–2529.950             | 2647.550–2649.950 |
| G<br>(5 MHz)     | Cond. Valid           | 600–649             | 2530.000–2532.450             | 2650.000–2652.450 |
|                  | Valid                 | 650                 | 2532.500                      | 2652.500          |
|                  | Cond. Valid           | 651–699             | 2532.550–2534.950             | 2652.550–2654.950 |
| H<br>(5 MHz)     | Cond. Valid           | 700–749             | 2535.000–2537.450             | 2655.000–2657.450 |
|                  | Valid                 | 750                 | 2537.500                      | 2657.500          |
|                  | Cond. Valid           | 751–799             | 2537.550–2539.950             | 2657.550–2659.950 |
| I<br>(5 MHz)     | Cond. Valid           | 800–849             | 2540.000–2542.450             | 2660.000–2662.450 |
|                  | Valid                 | 850                 | 2542.500                      | 2662.500          |
|                  | Cond. Valid           | 851–899             | 2542.550–2544.950             | 2662.550–2664.950 |
| J<br>(5 MHz)     | Cond. Valid           | 900–949             | 2545.000–2547.450             | 2665.000–2667.450 |
|                  | Valid                 | 950                 | 2547.500                      | 2667.500          |
|                  | Cond. Valid           | 951–999             | 2547.550–2549.950             | 2667.550–2669.950 |
| K<br>(5 MHz)     | Cond. Valid           | 1000–1049           | 2550.000–2552.450             | 2670.000–2672.450 |
|                  | Valid                 | 1050                | 2552.500                      | 2672.500          |
|                  | Cond. Valid           | 1051–1099           | 2552.550–2554.950             | 2672.550–2674.950 |
| L<br>(5 MHz)     | Cond. Valid           | 1100–1149           | 2555.000–2557.450             | 2675.000–2677.450 |
|                  | Valid                 | 1150                | 2557.500                      | 2677.500          |
|                  | Cond. Valid           | 1151–1199           | 2557.550–2559.950             | 2677.550–2679.950 |

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|------------------|-----------------------|---------------------|-------------------------------|-------------------|
|                  |                       |                     | Mobile Station                | Base Station      |
| M<br>(5 MHz)     | Cond. Valid           | 1200–1249           | 2560.000–2562.450             | 2680.000–2682.450 |
|                  | Valid                 | 1250                | 2562.500                      | 2682.500          |
|                  | Cond. Valid           | 1251–1299           | 2562.550–2564.950             | 2682.550–2684.950 |
| N<br>(5 MHz)     | Cond. Valid           | 1300–1349           | 2565.000–2567.450             | 2685.000–2687.450 |
|                  | Valid                 | 1350                | 2567.500                      | 2687.500          |
|                  | Not Valid             | 1351–1399           | 2567.550–2569.950             | 2687.550–2689.950 |

1

2

**Table 2.1.14-5. CDMA Preferred Set of Frequency Assignments for Band Class 13**

| Block Designator | Spreading Rate | Preferred Set Channel Numbers |
|------------------|----------------|-------------------------------|
| A                | 1              | 25, 50, 75                    |
|                  | 3              | 50                            |
| B                | 1              | 125, 150, 175                 |
|                  | 3              | 150                           |
| C                | 1              | 225, 250, 275                 |
|                  | 3              | 250                           |
| D                | 1              | 325, 350, 375                 |
|                  | 3              | 350                           |
| E                | 1              | 425, 450, 475                 |
|                  | 3              | 450                           |
| F                | 1              | 525, 550, 575                 |
|                  | 3              | 550                           |
| G                | 1              | 625, 650, 675                 |
|                  | 3              | 650                           |
| H                | 1              | 725, 750, 775                 |
|                  | 3              | 750                           |
| I                | 1              | 825, 850, 875                 |
|                  | 3              | 850                           |
| J                | 1              | 925, 950, 975                 |
|                  | 3              | 950                           |
| K                | 1              | 1025, 1050, 1075              |
|                  | 3              | 1050                          |

| <b>Block Designator</b> | <b>Spreading Rate</b> | <b>Preferred Set Channel Numbers</b> |
|-------------------------|-----------------------|--------------------------------------|
| L                       | 1                     | 1125, 1150, 1175                     |
|                         | 3                     | 1150                                 |
| M                       | 1                     | 1225, 1250, 1275                     |
|                         | 3                     | 1250                                 |
| N                       | 1                     | 1325, 1350, 1375                     |
|                         | 3                     | 1350                                 |

1

2

3

**Table 2.1.14-6. Sync Channel Preferred Frequency Assignments for Spreading Rate 3 for Band Class 13**

| <b>Block Designator</b> | <b>Sync Channel Preferred Channel Numbers</b> |
|-------------------------|---|
| A                       | 50  |
| B                       | 150   |
| C                       | 250   |
| D                       | 350   |
| E                       | 450   |
| F                       | 550   |
| G                       | 650   |
| H                       | 750   |
| I                       | 850   |
| J                       | 950   |
| K                       | 1050  |
| L                       | 1150  |
| M                       | 1250  |
| N                       | 1350  |

4

5 2.1.15 Band Class 14 (US PCS 1.9GHz Band)

6 The Band Class 14 block designators for the CDMA equipment shall be as specified in  
7 Table 2.1.15-1.

8 The channel spacing, CDMA channel designations, and transmitter center frequencies of  
9 Band Class 14 shall be as specified in Table 2.1.15-2. CDMA equipment supporting Band  
10 Class 14 and Spreading Rate 1 shall support transmission on the valid and conditionally

1 valid channel numbers shown in Table 2.1.15-3. CDMA equipment supporting Band Class  
 2 14 and Spreading Rate 3 shall support transmission on the valid and conditionally valid  
 3 channel numbers shown in Table 2.1.15-4. Note that certain channel assignments are not  
 4 valid and others are conditionally valid. Transmission on conditionally valid channels is  
 5 permissible if the adjacent block is allocated to the same licensee or if other valid  
 6 authorization has been obtained.

7 A preferred set of CDMA frequency assignments is given in Table 2.1.15-5.

8 Preferred Sync Channel frequency assignments for the multi-carrier mode are given in  
 9 Table 2.1.15-6.

10 If the mobile station uses Spreading Rate 1 or Spreading Rate 3 for both Forward and  
 11 Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA  
 12 Channel designated by  $CDMACH_s$ . If the mobile station uses Spreading Rate 3 for the  
 13 Forward Traffic Channel and uses Spreading Rate 1 for the Reverse Traffic Channel, then it  
 14 shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  
 15  $CDMACH_s - 25$  if  $1XRL\_FREQ\_OFFSET_s$  equals '00', on the CDMA Channel designated by  
 16  $CDMACH_s$  if  $1XRL\_FREQ\_OFFSET_s$  equals '01', or on the CDMA Channel designated by  
 17  $CDMACH_s + 25$  if  $1XRL\_FREQ\_OFFSET_s$  equals '10'.

18 If the mobile station is transmitting and receiving using the same spreading rate, the  
 19 nominal mobile station transmit carrier frequency shall be 80.0 MHz lower than the  
 20 frequency of the base station transmit signal as measured at the mobile station receiver. If  
 21 the mobile station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3,  
 22 the nominal mobile station transmit carrier frequency shall be  $120.0 - 1.25 \times$   
 23  $(1XRL\_FREQ\_OFFSET_s - 1)$  MHz lower than the center frequency of the center CDMA  
 24 channel transmitted by the base station as measured at the mobile station receiver.

25 At the base station, if a Band Class 14 carrier operates with Spreading Rate 3, then all  
 26 three carriers shall be separated by 25 CDMA Channels (1.25 MHz separation).

27  
 28 **Table 2.1.15-1. Band Class 14 Block Frequency Correspondence**

| Block Designator | Transmit Frequency Band (MHz) |              |
|------------------|-------------------------------|--------------|
|                  | Mobile Station                | Base Station |
| A                | 1850–1865                     | 1930–1945    |
| D                | 1865–1870                     | 1945–1950    |
| B                | 1870–1885                     | 1950–1965    |
| E                | 1885–1890                     | 1965–1970    |
| F                | 1890–1895                     | 1970–1975    |
| C                | 1895–1910                     | 1975–1990    |
| G                | 1910–1915                     | 1990–1995    |



**Table 2.1.15-2. CDMA Channel Number to CDMA Frequency Assignment Correspondence for Band Class 14**

| <b>Transmitter</b> | <b>CDMA Channel Number</b> | <b>Center Frequency for CDMA Channel (MHz)</b> |
|--------------------|----------------------------|--|
| Mobile Station     | $0 \leq N \leq 1299$       | $1850.000 + 0.050 N$                           |
| Base Station       | $0 \leq N \leq 1299$       | $1930.000 + 0.050 N$                           |

**Table 2.1.15-3. CDMA Channel Numbers and Corresponding Frequencies for Band Class 14 and Spreading Rate 1**

| <b>Block Designator</b> | <b>CDMA Channel Validity</b> | <b>CDMA Channel Number</b> | <b>Transmit Frequency Band (MHz)</b> |                     |
|-------------------------|------------------------------|----------------------------|--------------------------------------|---------------------|
|                         |                              |                            | <b>Mobile Station</b>                | <b>Base Station</b> |
| A<br>(15 MHz)           | Not Valid                    | 0–24                       | 1850.000–1851.200                    | 1930.000–1931.200   |
|                         | Valid                        | 25–275                     | 1851.250–1863.750                    | 1931.250–1943.750   |
|                         | Cond. Valid                  | 276–299                    | 1863.800–1864.950                    | 1943.800–1944.950   |
| D<br>(5 MHz)            | Cond. Valid                  | 300–324                    | 1865.000–1866.200                    | 1945.000–1946.200   |
|                         | Valid                        | 325–375                    | 1866.250–1868.750                    | 1946.250–1948.750   |
|                         | Cond. Valid                  | 376–399                    | 1868.800–1869.950                    | 1948.800–1949.950   |
| B<br>(15 MHz)           | Cond. Valid                  | 400–424                    | 1870.000–1871.200                    | 1950.000–1951.200   |
|                         | Valid                        | 425–675                    | 1871.250–1883.750                    | 1951.250–1963.750   |
|                         | Cond. Valid                  | 676–699                    | 1883.800–1884.950                    | 1963.800–1964.950   |
| E<br>(5 MHz)            | Cond. Valid                  | 700–724                    | 1885.000–1886.200                    | 1965.000–1966.200   |
|                         | Valid                        | 725–775                    | 1886.250–1888.750                    | 1966.250–1968.750   |
|                         | Cond. Valid                  | 776–799                    | 1888.800–1889.950                    | 1968.800–1969.950   |
| F<br>(5 MHz)            | Cond. Valid                  | 800–824                    | 1890.000–1891.200                    | 1970.000–1971.200   |
|                         | Valid                        | 825–875                    | 1891.250–1893.750                    | 1971.250–1973.750   |
|                         | Cond. Valid                  | 876–899                    | 1893.800–1894.950                    | 1973.800–1974.950   |
| C<br>(15 MHz)           | Cond. Valid                  | 900–924                    | 1895.000–1896.200                    | 1975.000–1976.200   |
|                         | Valid                        | 925–1175                   | 1896.250–1908.750                    | 1976.250–1988.750   |
|                         | Cond. Valid                  | 1176–1199                  | 1908.800–1909.950                    | 1988.800–1989.950   |
| G<br>(5 MHz)            | Cond. Valid                  | 1200–1224                  | 1910.000–1911.200                    | 1990.000–1991.200   |
|                         | Valid                        | 1225–1275                  | 1911.250–1913.750                    | 1991.250–1993.750   |
|                         | Not Valid                    | 1276–1299                  | 1913.800–1914.950                    | 1993.800–1994.950   |

**Table 2.1.15-4. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 14 and Spreading Rate 3**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|------------------|-----------------------|---------------------|-------------------------------|-------------------|
|                  |                       |                     | Mobile Station                | Base Station      |
| A<br>(15 MHz)    | Not Valid             | 0–49                | 1850.000–1852.450             | 1930.000–1932.450 |
|                  | Valid                 | 50–250              | 1852.500–1862.500             | 1932.500–1942.500 |
|                  | Cond. Valid           | 251–299             | 1862.550–1864.950             | 1942.550–1944.950 |
| D<br>(5 MHz)     | Cond. Valid           | 300–349             | 1865.000–1867.450             | 1945.000–1947.450 |
|                  | Valid                 | 350                 | 1867.500                      | 1947.500          |
|                  | Cond. Valid           | 351–399             | 1867.550–1869.950             | 1947.550–1949.950 |
| B<br>(15 MHz)    | Cond. Valid           | 400–449             | 1870.000–1872.450             | 1950.000–1952.450 |
|                  | Valid                 | 450–650             | 1872.500–1882.500             | 1952.500–1962.500 |
|                  | Cond. Valid           | 651–699             | 1882.550–1884.950             | 1962.550–1964.950 |
| E<br>(5 MHz)     | Cond. Valid           | 700–749             | 1885.000–1887.450             | 1965.000–1967.450 |
|                  | Valid                 | 750                 | 1887.500                      | 1967.500          |
|                  | Cond. Valid           | 751–799             | 1887.550–1889.950             | 1967.550–1969.950 |
| F<br>(5 MHz)     | Cond. Valid           | 800–849             | 1890.000–1892.450             | 1970.000–1972.450 |
|                  | Valid                 | 850                 | 1892.500                      | 1972.500          |
|                  | Cond. Valid           | 851–899             | 1892.550–1894.950             | 1972.550–1974.950 |
| C<br>(15 MHz)    | Cond. Valid           | 900–949             | 1895.000–1897.450             | 1975.000–1977.450 |
|                  | Valid                 | 950–1150            | 1897.500–1907.500             | 1977.500–1987.500 |
|                  | Cond. Valid           | 1151–1199           | 1907.550–1909.950             | 1987.550–1989.950 |
| G<br>(5 MHz)     | Cond. Valid           | 1200–1249           | 1910.000–1912.450             | 1990.000–1992.450 |
|                  | Valid                 | 1250                | 1912.500                      | 1992.500          |
|                  | Not Valid             | 1251–1299           | 1912.550–1914.950             | 1992.550–1994.950 |

1 **Table 2.1.15-5. CDMA Preferred Set of Frequency Assignments for Band Class 14**

| <b>Block Designator</b> | <b>Spreading Rate</b> | <b>Preferred Set Channel Numbers</b>                          |
|-------------------------|-----------------------|---|
| A                       | 1                     | 25, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275            |
|                         | 3                     | 50, 75, 100, 125, 150, 175, 200, 225, 250                     |
| D                       | 1                     | 325, 350, 375   |
|                         | 3                     | 350   |
| B                       | 1                     | 425, 450, 475, 500, 525, 550, 575, 600, 625, 650, 675         |
|                         | 3                     | 450, 475, 500, 525, 550, 575, 600, 625, 650                   |
| E                       | 1                     | 725, 750, 775   |
|                         | 3                     | 750   |
| F                       | 1                     | 825, 850, 875   |
|                         | 3                     | 850   |
| C                       | 1                     | 925, 950, 975, 1000, 1025, 1050, 1075, 1100, 1125, 1150, 1175 |
|                         | 3                     | 950, 975, 1000, 1025, 1050, 1075, 1100, 1125, 1150            |
| G                       | 1                     | 1225, 1250, 1275  |
|                         | 3                     | 1250  |

2

3

4

**Table 2.1.15-6. Sync Channel Preferred Frequency Assignments for Spreading Rate 3 for Band Class 14**

| <b>Block Designator</b> | <b>Preferred Set of Channel Numbers</b> |
|-------------------------|---|
| A                       | 75, 150, 225                            |
| D                       | 350                                     |
| B                       | 475, 550, 625                           |
| E                       | 750                                     |
| F                       | 850                                     |
| C                       | 975, 1050, 1125                         |
| G                       | 1250                                    |

5

## 1 2.1.16 Band Class 15 (AWS Band)

2 The Band Class 15 block designators for the CDMA equipment shall be as specified in  
3 Table 2.1.16-1.

4 The channel spacing, CDMA channel designations, and transmitter center frequencies of  
5 Band Class 15 shall be as specified in Table 2.1.16-2. CDMA equipment supporting Band  
6 Class 15 and Spreading Rate 1 shall support transmission on the valid and conditionally  
7 valid channel numbers shown in Table 2.1.16-3. CDMA equipment supporting Band Class  
8 15 and Spreading Rate 3 shall support transmission on the valid and conditionally valid  
9 channel numbers shown in Table 2.1.16-4. Note that certain channel assignments are not  
10 valid and others are conditionally valid. Transmission on conditionally valid channels is  
11 permissible if the adjacent block is allocated to the same licensee or if other valid  
12 authorization has been obtained.

13 A preferred set of CDMA frequency assignments is given in Table 2.1.16-5.

14 Preferred Sync Channel frequency assignments for the multi-carrier mode are given in  
15 Table 2.1.16-6.

16 If the mobile station uses Spreading Rate 1 or Spreading Rate 3 for both Forward and  
17 Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA  
18 Channel designated by  $CDMACH_s$ . If the mobile station uses Spreading Rate 3 for the  
19 Forward Traffic Channel and uses Spreading Rate 1 for the Reverse Traffic Channel, then it  
20 shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  
21  $CDMACH_s - 25$  if  $1XRL\_FREQ\_OFFSET_s$  equals '00', on the CDMA Channel designated by  
22  $CDMACH_s$  if  $1XRL\_FREQ\_OFFSET_s$  equals '01', or on the CDMA Channel designated by  
23  $CDMACH_s + 25$  if  $1XRL\_FREQ\_OFFSET_s$  equals '10'.

24 If the mobile station is transmitting and receiving using the same spreading rate, the  
25 nominal mobile station transmit carrier frequency shall be 400.0 MHz lower than the  
26 frequency of the base station transmit signal as measured at the mobile station receiver. If  
27 the mobile station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3,  
28 the nominal mobile station transmit carrier frequency shall be  $400.0 - 1.25 \times$   
29  $(1XRL\_FREQ\_OFFSET_s - 1)$  MHz lower than the center frequency of the center CDMA  
30 channel transmitted by the base station as measured at the mobile station receiver.

31 At the base station, if a Band Class 15 carrier operates with Spreading Rate 3, then all  
32 three carriers shall be separated by 25 CDMA Channels (1.25 MHz separation).

33

1

**Table 2.1.16-1. Band Class 15 Block Frequency Correspondence**

| <b>Block Designator</b> | <b>Transmit Frequency Band (MHz)</b> |                     |
|-------------------------|--------------------------------------|---------------------|
|                         | <b>Mobile Station</b>                | <b>Base Station</b> |
| A                       | 1710–1720                            | 2110–2120           |
| B                       | 1720–1730                            | 2120–2130           |
| C                       | 1730–1735                            | 2130–2135           |
| D                       | 1735–1740                            | 2135–2140           |
| E                       | 1740–1745                            | 2140–2145           |
| F                       | 1745–1755                            | 2145–2155           |

2

3

4

**Table 2.1.16-2. CDMA Channel Number to CDMA Frequency Assignment Correspondence for Band Class 15**

| <b>Transmitter</b> | <b>CDMA Channel Number</b> | <b>Center Frequency for CDMA Channel (MHz)</b> |
|--------------------|----------------------------|--|
| Mobile Station     | $0 \leq N \leq 899$        | $1710.000 + 0.050 N$                           |
| Base Station       | $0 \leq N \leq 899$        | $2110.000 + 0.050 N$                           |

5

1  
2

**Table 2.1.16-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 15 and Spreading Rate 1**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|------------------|-----------------------|---------------------|-------------------------------|-------------------|
|                  |                       |                     | Mobile Station                | Base Station      |
| A<br>(10 MHz)    | Not Valid             | 0–24                | 1710.000–1711.200             | 2110.000–2111.200 |
|                  | Valid                 | 25–175              | 1711.250–1718.750             | 2111.250–2118.750 |
|                  | Cond. Valid           | 176–199             | 1718.800–1719.950             | 2118.800–2119.950 |
| B<br>(10 MHz)    | Cond. Valid           | 200–224             | 1720.000–1721.200             | 2120.000–2121.200 |
|                  | Valid                 | 225–375             | 1721.250–1728.750             | 2121.250–2128.750 |
|                  | Cond. Valid           | 376–399             | 1728.800–1729.950             | 2128.800–2129.950 |
| C<br>(5 MHz)     | Cond. Valid           | 400–424             | 1730.000–1731.200             | 2130.000–2131.200 |
|                  | Valid                 | 425–475             | 1731.250–1733.750             | 2131.250–2133.750 |
|                  | Cond. Valid           | 476–499             | 1733.800–1734.950             | 2133.800–2134.950 |
| D<br>(5 MHz)     | Cond. Valid           | 500–524             | 1735.000–1736.200             | 2135.000–2136.200 |
|                  | Valid                 | 525–575             | 1736.250–1738.750             | 2136.250–2138.750 |
|                  | Cond. Valid           | 576–599             | 1738.800–1739.950             | 2138.800–2139.950 |
| E<br>(5 MHz)     | Cond. Valid           | 600–624             | 1740.000–1741.200             | 2140.000–2141.200 |
|                  | Valid                 | 625–675             | 1741.250–1743.750             | 2141.250–2143.750 |
|                  | Cond. Valid           | 676–699             | 1743.800–1744.950             | 2143.800–2144.950 |
| F<br>(10 MHz)    | Cond. Valid           | 700–724             | 1745.000–1746.200             | 2145.000–2146.200 |
|                  | Valid                 | 725–875             | 1746.250–1753.750             | 2146.250–2153.750 |
|                  | Not Valid             | 876–899             | 1753.800–1754.950             | 2153.800–2154.950 |

3

1  
2

**Table 2.1.16-4. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 15 and Spreading Rate 3**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|------------------|-----------------------|---------------------|-------------------------------|-------------------|
|                  |                       |                     | Mobile Station                | Base Station      |
| A<br>(10 MHz)    | Not Valid             | 0–49                | 1710.000–1712.450             | 2110.000–2112.450 |
|                  | Valid                 | 50–150              | 1712.500–1717.500             | 2112.500–2117.500 |
|                  | Cond. Valid           | 151–199             | 1717.550–1719.950             | 2117.550–2119.950 |
| B<br>(10 MHz)    | Cond. Valid           | 200–249             | 1720.000–1722.450             | 2120.000–2122.450 |
|                  | Valid                 | 250–350             | 1722.500–1727.500             | 2122.500–2127.500 |
|                  | Cond. Valid           | 351–399             | 1727.550–1729.950             | 2127.550–2129.950 |
| C<br>(5 MHz)     | Cond. Valid           | 400–449             | 1730.000–1732.450             | 2130.000–2132.450 |
|                  | Valid                 | 450                 | 1732.500                      | 2132.500          |
|                  | Cond. Valid           | 451–499             | 1732.550–1734.950             | 2132.550–2134.950 |
| D<br>(5 MHz)     | Cond. Valid           | 500–549             | 1735.000–1737.450             | 2135.000–2137.450 |
|                  | Valid                 | 550                 | 1737.500                      | 2137.500          |
|                  | Cond. Valid           | 551–599             | 1737.550–1739.950             | 2137.550–2139.950 |
| E<br>(5 MHz)     | Cond. Valid           | 600–649             | 1740.000–1742.450             | 2140.000–2142.450 |
|                  | Valid                 | 650                 | 1742.500                      | 2142.500          |
|                  | Cond. Valid           | 651–699             | 1742.550–1744.950             | 2142.550–2144.950 |
| F<br>(10 MHz)    | Cond. Valid           | 700–749             | 1745.000–1747.450             | 2145.000–2147.450 |
|                  | Valid                 | 750–850             | 1747.500–1752.500             | 2147.500–2152.500 |
|                  | Not Valid             | 851–899             | 1752.550–1754.950             | 2152.550–2154.950 |

3

**Table 2.1.16-5. CDMA Preferred Set of Frequency Assignments for Band Class 15**

| <b>Block Designator</b> | <b>Spreading Rate</b> | <b>Preferred Set Channel Numbers</b> |
|-------------------------|-----------------------|--------------------------------------|
| A                       | 1                     | 25, 50, 75, 100, 125, 150, 175       |
|                         | 3                     | 50, 75, 100, 125, 150                |
| B                       | 1                     | 225, 250, 275, 300, 325, 350, 375    |
|                         | 3                     | 250, 275, 300, 325, 350              |
| C                       | 1                     | 425, 450, 475                        |
|                         | 3                     | 450                                  |
| D                       | 1                     | 525, 550, 575                        |
|                         | 3                     | 550                                  |
| E                       | 1                     | 625, 650, 675                        |
|                         | 3                     | 650                                  |
| F                       | 1                     | 725, 750, 775, 800, 825, 850, 875    |
|                         | 3                     | 750, 775, 800, 825, 850              |

**Table 2.1.16-6. Sync Channel Preferred Frequency Assignments for Spreading Rate 3 for Band Class 15**

| <b>Block Designator</b> | <b>Sync Channel Preferred Channel Numbers</b> |
|-------------------------|---|
| A                       | 75, 150                                       |
| B                       | 275, 350                                      |
| C                       | 450   |
| D                       | 550   |
| E                       | 650   |
| F                       | 775, 850                                      |

**2.1.17 Band Class 16 (US 2.5GHz Band)**

The Band Class 16 block designators for the CDMA equipment shall be as specified in Table 2.1.17-1. CDMA equipments supporting Band Class 16 shall be capable of transmitting in Band Class 16.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 16 shall be as specified in Table 2.1.17-2. CDMA equipment supporting Band Class 16 and Spreading Rate 1 shall support transmission on the valid and conditionally



1 valid channel numbers shown in Table 2.1.17-3. CDMA equipment supporting Band Class  
 2 16 and Spreading Rate 3 shall support transmission on the valid and conditionally valid  
 3 channel numbers shown in Table 2.1.17-4. Note that certain channel assignments are not  
 4 valid and others are conditionally valid. Transmission on conditionally valid channels is  
 5 permissible if the adjacent block is allocated to the same licensee or if other valid  
 6 authorization has been obtained.

7 A preferred set of CDMA frequency assignments is given in Table 2.1.17-5.

8 A preferred set of Sync Channel frequency assignments for the multi-carrier mode is given  
 9 in Table 2.1.17-6.

10 If the mobile station uses Spreading Rate 1 or Spreading Rate 3 for both Forward and  
 11 Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA  
 12 Channel designated by  $CDMACH_S$ . If the mobile station uses Spreading Rate 3 for the  
 13 Forward Traffic Channel and uses Spreading Rate 1 for the Reverse Traffic Channel, then it  
 14 shall transmit the Reverse Traffic Channel on the CDMA Channel designated by  
 15  $CDMACH_S - 25$  if  $1XRL\_FREQ\_OFFSET_S$  equals '00', on the CDMA Channel designated by  
 16  $CDMACH_S$  if  $1XRL\_FREQ\_OFFSET_S$  equals '01', or on the CDMA Channel designated by  
 17  $CDMACH_S + 25$  if  $1XRL\_FREQ\_OFFSET_S$  equals '10'.

18 If the mobile station is transmitting and receiving using the same spreading rate, the  
 19 nominal mobile station transmit carrier frequency shall be 122.0 MHz lower than the  
 20 frequency of the base station transmit signal as measured at the mobile station receiver. If  
 21 the mobile station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3,  
 22 the nominal mobile station transmit carrier frequency shall be  $122.0 - 1.25 \times$   
 23  $(1XRL\_FREQ\_OFFSET_S - 1)$  MHz lower than the center frequency of the center CDMA  
 24 channel transmitted by the base station as measured at the mobile station receiver.

25 At the base station, if a Band Class 16 carrier operates with Spreading Rate 3, then all  
 26 three carriers shall be separated by 25 CDMA Channels (1.25 MHz separation).

27  
 28 **Table 2.1.17-1. Band Class 16 Block Frequency Correspondence**

| Block Designator | Transmit Frequency Band (MHz) |              |
|------------------|-------------------------------|--------------|
|                  | Mobile Station                | Base Station |
| A                | 2502-2518.5                   | 2624-2640.5  |
| B                | 2518.5-2535                   | 2640.5-2657  |
| C                | 2535-2551.5                   | 2657-2673.5  |
| D                | 2551.5-2568                   | 2673.5-2690  |

29

**Table 2.1.17-2. CDMA Channel Number to CDMA Frequency  
Assignment Correspondence for Band Class 16**

| Transmitter    | CDMA Channel Number    | Center Frequency for CDMA Channel (MHz) |
|----------------|------------------------|---|
| Mobile Station | $140 \leq M \leq 1459$ | $2495.000 + 0.050 M$                    |
| Base Station   | $140 \leq N \leq 1459$ | $2617.000 + 0.050 N$                    |

**Table 2.1.17-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 16 and Spreading Rate 1**

| Block Designator | CDMA Channel Validity | Mobile Station CDMA Channel Number (M) | Mobile Station Transmit Frequency Band (MHz) | Base Station CDMA Channel Number (N) | Base Station Transmit Frequency Band (MHz) |
|------------------|-----------------------|--|--|--------------------------------------|--|
| A<br>(16.5 MHz)  | Not Valid             | 140–164                                | 2502.000–2503.200                            | 140–164                              | 2624.000–2625.200                          |
|                  | Valid                 | 165–445                                | 2503.250–2517.250                            | 165–445                              | 2625.250–2639.250                          |
|                  | Cond. Valid           | 446–459                                | 2517.300–2518.450                            | 446–459                              | 2639.300–2640.450                          |
| B<br>(16.5 MHz)  | Cond. Valid           | 470–494                                | 2518.500–2519.700                            | 470–494                              | 2640.500–2641.700                          |
|                  | Valid                 | 495–775                                | 2519.750–2533.750                            | 495–775                              | 2641.750–2655.750                          |
|                  | Cond. Valid           | 776–799                                | 2533.800–2534.950                            | 776–799                              | 2655.800–2656.950                          |
| C<br>(16.5 MHz)  | Cond. Valid           | 800–824                                | 2535.000–2536.200                            | 800–824                              | 2657.000–2658.200                          |
|                  | Valid                 | 825–1105                               | 2536.250–2550.250                            | 825–1105                             | 2658.250–2672.250                          |
|                  | Cond. Valid           | 1106–1129                              | 2550.300–2551.450                            | 1106–1129                            | 2672.300–2673.450                          |
| D<br>(16.5 MHz)  | Cond. Valid           | 1130–2414                              | 2551.500–2552.700                            | 1130–2414                            | 2673.500–2674.700                          |
|                  | Valid                 | 2415–2695                              | 2552.750–2566.750                            | 2415–2695                            | 2674.750–2688.750                          |
|                  | Not Valid             | 2696–2719                              | 2566.800–2567.950                            | 2696–2719                            | 2688.800–2689.950                          |

**Table 2.1.17-4. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 16 and Spreading Rate 3**

| Block Designator | CDMA Channel Validity | Mobile Station CDMA Channel Number (M) | Mobile Station Transmit Frequency Band (MHz) | Base Station CDMA Channel Number (N) | Base Station Transmit Frequency Band (MHz) |
|------------------|-----------------------|--|--|--------------------------------------|--|
| A<br>(16.5 MHz)  | Not Valid             | 140–289                                | 2502.000–2504.450                            | 140–289                              | 2624.000–2626.450                          |
|                  | Valid                 | 190–420                                | 2504.500–2516.000                            | 190–420                              | 2626.500–2638.000                          |
|                  | Cond. Valid           | 421–469                                | 2516.050–2518.450                            | 421–469                              | 2638.050–2640.450                          |

|                    |             |           |                   |           |                   |
|--------------------|-------------|-----------|-------------------|-----------|-------------------|
| B<br>(16.5<br>MHz) | Cond. Valid | 470-519   | 2518.500-2520.950 | 470-519   | 2640.500-2642.950 |
|                    | Valid       | 520-750   | 2521.000-2532.500 | 520-750   | 2643.000-2654.500 |
|                    | Cond. Valid | 751-799   | 2532.550-2534.950 | 751-799   | 2654.550-2656.950 |
| C<br>(16.5<br>MHz) | Cond. Valid | 800-849   | 2535.000-2537.450 | 800-849   | 2657.000-2659.450 |
|                    | Valid       | 850-1080  | 2537.500-2549.000 | 850-1080  | 2659.500-2671.000 |
|                    | Cond. Valid | 1081-1129 | 2549.050-2551.450 | 1081-1129 | 2671.050-2673.450 |
| D<br>(16.5<br>MHz) | Cond. Valid | 1130-2439 | 2551.500-2553.950 | 1130-2439 | 2673.500-2675.950 |
|                    | Valid       | 2440-2470 | 2554.000-2565.500 | 2440-2470 | 2676.000-2687.500 |
|                    | Not Valid   | 2471-2519 | 2565.550-2567.950 | 2471-2519 | 2687.550-2689.950 |

1

2

**Table 2.1.17-5. CDMA Preferred Set of Frequency Assignments for Band Class 16**

| <b>Block Designator</b> | <b>Spreading Rate</b> | <b>Mobile Station Preferred Set Channel Numbers</b>                    |
|-------------------------|-----------------------|--|
| A                       | 1                     | 165, 190, 215, 240, 265, 290, 315, 340, 365, 390, 415, 440             |
|                         | 3                     | 190, 215, 240, 265, 290, 315, 340, 365, 390, 415                       |
| B                       | 1                     | 495, 520, 545, 570, 595, 620, 645, 670, 695, 720, 745, 770             |
|                         | 3                     | 520, 545, 570, 595, 620, 645, 670, 695, 720, 745                       |
| C                       | 1                     | 825, 850, 875, 900, 925, 950, 975, 1000, 1025, 1050, 1075, 1100        |
|                         | 3                     | 850, 875, 900, 925, 950, 975, 1000, 1025, 1050, 1075                   |
| D                       | 1                     | 1155, 1180, 1205, 1230, 1255, 1280, 1305, 1330, 1355, 1380, 1405, 1430 |
|                         | 3                     | 1180, 1205, 1230, 1255, 1280, 1305, 1330, 1355, 1380, 1405             |

3

4

5

**Table 2.1.17-6. Sync Channel Preferred Frequency Assignments for Spreading Rate 3 for Band Class 16**

| <b>Block Designator</b> | <b>Preferred Set of Channel Numbers</b> |
|-------------------------|---|
| A                       | 215, 290, 365, 470                      |
| B                       | 555, 620, 695, 770                      |
| C                       | 875, 950, 1025, 1100                    |
| D                       | 1205, 1280, 1355, 1430                  |

6

7

**2.2 Frequency Tolerance**

8

9

10

The mobile station shall meet the requirements of the current version of [4]. The base station transmit carrier frequency shall be maintained within  $\pm 5 \times 10^{-8}$  of the CDMA frequency assignment ( $\pm 0.05$  ppm).

11

**2.3 Power Output Characteristics: Controlled Output Power**

12

13

All power levels are referenced to the mobile station antenna connector unless otherwise specified. The mobile station shall provide three independent means of output power

1 adjustment: an open loop estimation performed by the mobile station, a closed loop  
 2 correction involving both the mobile station and the base station, and possible code  
 3 channel attribute adjustments for certain channels and radio configurations.

#### 4 2.3.1 Open Loop Output Power for Reverse Link Channels

5 In Table 2.3.1-1, the mean power is referenced to the nominal CDMA Channel bandwidth  
 6 of 1.23 MHz for Spreading Rate 1 or 3.69 MHz for Spreading Rate 3. The estimated open  
 7 loop output power for the various Reverse Link Channels is summarized in Table 2.3.1-1.  
 8 For simplicity, in Table 2.3.1-1, the Offset Power constants are expressed without units.  
 9 For example, -73 is equal to  $10 \times \log_{10} (10^{-7.3} \text{ mW}^2)$ .

10  
 11 **Table 2.3.1-1. Open Loop Power Offsets**

| Band Class                       | Forward Spreading Rate | Reverse Spreading Rate | Reverse Channels   | Offset Power |
|----------------------------------|------------------------|------------------------|--|--------------|
| 0, 2, 3, 5, 7, 9, 10, 11, and 12 | 1                      | 1                      | Access Channel<br>Reverse Traffic Channel (RC = 1 or 2)  | -73          |
|                                  |                        |                        | Enhanced Access Channel<br>Reverse Common Control Channel<br>Reverse Traffic Channel (RC = 3 or 4)<br>Reverse Packet Data Channel (RC = 7) | -81.5        |
|                                  | 3                      | 1                      | Reverse Traffic Channel (RC = 3 or 4)  | -76.5        |
|                                  |                        | 3                      | Enhanced Access Channel<br>Reverse Common Control Channel<br>Reverse Traffic Channel (RC = 5 or 6)   | -76.5        |
| 1, 4, 6, 8, 13, 14, 15 and 16    | 1                      | 1                      | Access Channel<br>Reverse Traffic Channel (RC = 1 or 2)  | -76          |
|                                  |                        |                        | Enhanced Access Channel<br>Reverse Common Control Channel<br>Reverse Traffic Channel (RC = 3 or 4)<br>Reverse Packet Data Channel (RC = 7) | -84.5        |
|                                  | 3                      | 1                      | Reverse Traffic Channel (RC = 3 or 4)  | -79.5        |
|                                  |                        | 3                      | Enhanced Access Channel<br>Reverse Common Control Channel<br>Reverse Traffic Channel (RC = 5 or 6)   | -79.5        |

12  
 13 The open loop output power when transmitting the access probe on the Reverse Access  
 14 Channel is summarized in Table 2.3.1-2. Note that the term CORRECTION in Table 2.3.1-2  
 15 refers to  $\text{NOM\_PWR}_S - 16 \times \text{NOM\_PWR\_EXT}_S$ .

**Table 2.3.1-2. Access Probe Open Loop Power on the Reverse Access Channel**

| Parameter            | Band Class                                   | Value        |
|----------------------|--|--------------|
| Range of CORRECTIONS | 1,2,4,5,6,7,8,9,10,11,12,13,14, 15<br>and 16 | -24 to +7 dB |
|                      | 0 and 3                                      | -8 to +7 dB  |

The open loop output power when transmitting on the various Reverse Link Channels are summarized in Table 2.3.1-3. The supported range of combined corrections refers to a number of different parameters for the different Reverse Link Channels, and are summarized below Table 2.3.1-3.

**Table 2.3.1-3. Open Loop Output Power**

| Channel  | Band Class                | Supported Combined Range of Corrections |
|--|---------------------------|---|
| Access Channel                                   | 0,2,3,5,7,9,10,11, and 12 | At least $\pm 32$ dB                    |
|  | 1,4,6, 8,13,14,15 and 16  | At least $\pm 40$ dB                    |
| Enhanced Access Channel                          | 0,2,3,5,7,9,10,11, and 12 | At least $\pm 32$ dB                    |
|  | 1,4,6,8,13,14,15 and 16   | At least $\pm 40$ dB                    |
| Common Control Channel                           | 0,2,3,5,7,9,10,11, and 12 | At least $\pm 32$ dB                    |
|  | 1,4,6,8,13,14,15 and 16   | At least $\pm 40$ dB                    |
| Reverse Traffic Channel<br>(RC 1 or 2)           | 0,2,3,5,7,9,10,11, and 12 | At least $\pm 32$ dB                    |
|  | 1,4,6,8,13,14,15 and 16   | At least $\pm 40$ dB                    |
| Reverse Traffic Channel<br>(RC 3, 4, 5, 6, or 7) | 0,2,3,5,7,9,10,11, and 12 | At least $\pm 32$ dB                    |
|  | 1,4,6,8,13,14,15 and 16   | At least $\pm 40$ dB                    |

For the Reverse Access Channel, the term “Supported Combined Range of Corrections” refers to a total combined range of interference correction,  $NOM\_PWR_S$ ,  $NOM\_PWR\_EXT_S$ ,  $INIT\_PWR_S$ , and  $PWR\_STEP_S \times PWR\_LVL$  (see [1]).

For the Reverse Enhanced Access Channel, the term “Supported Combined Range of Corrections” refers to a total combined range of interference correction,  $EACH\_NOM\_PWR_S$ ,  $EACH\_INIT\_PWR_S$ ,  $PWR\_LVL \times EACH\_PWR\_STEP_S$ , and closed loop power control corrections (if applicable).

For the Reverse Common Control Channel, the term “Supported Combined Range of Corrections” refers to a total combined range of interference correction,

1 RCCCH\_NOM\_PWR<sub>s</sub>, RCCCH\_INIT\_PWR<sub>s</sub>, PREV\_CORRECTIONS (see [1]), and closed loop  
2 power control corrections.

3 For the Reverse Traffic Channel operating with Radio Configuration 1 or 2, the term  
4 “Supported Combined Range of Corrections” refers to a total combined range of  
5 interference correction, ACC\_CORRECTIONS (see [1]), RLGAIN\_ADJ<sub>s</sub>, and closed loop  
6 power control corrections.

7 For the Reverse Traffic Channel operating with Radio Configuration 3, 4, 5, 6, or 7, the  
8 term “Supported Combined Range of Corrections” refers to a total combined range of  
9 interference correction, ACC\_CORRECTIONS, RLGAIN\_ADJ<sub>s</sub>, RTC\_NOM\_PWR<sub>s</sub>, and closed  
10 loop power control corrections.

- 1 No text.



### 3 REQUIREMENTS FOR THE OPERATION OF THE “CDMA2000 HIGH RATE PACKET DATA AIR INTERFACE”

This section defines requirements and operation for both the access terminal and the access network that are specific to CDMA High Rate Packet Data Equipment conforming to [2, 10]. A CDMA access terminal or access network may support operation in one or more band classes.

#### 3.1 Channel Spacing and Designation

This section specifies the frequency parameters of the CDMA equipment conforming to [2, 10] that support CDMA operation. Note that CDMA equipment in this section could be interpreted to mean an access network, an access terminal, or both.

##### 3.1.1 Band Class 0 (800-MHz Band)

The Band Class 0 system designators for the access terminal and access network shall be as specified in Table 3.1.1-1.

There are four band subclasses specified for Band Class 0. Access terminals supporting Band Class 0 shall support at least one band subclass belonging to Band Class 0.

Access terminals supporting Band Class 0 shall be capable of transmitting in Band Class 0.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 0 shall be as specified in Table 3.1.1-2. Access terminals supporting Band Class 0 shall support transmission on the valid channel numbers shown in Table 3.1.1-3.<sup>8</sup>

For CDMA equipment conforming to [2], or its older versions, the nominal access terminal transmit carrier frequency shall be 45.0 MHz lower than the frequency of the access network transmit signal as measured at the access terminal receiver.

---

<sup>8</sup> Note that the Korean Cellular Band uses Band Subclass 1 and has additional valid channels that a Band Class 0 access terminal should support to permit roaming to Korea.

1

**Table 3.1.1-1. Band Class 0 System Frequency Correspondence**

| System Designator | Band Subclass   | Transmit Frequency Band (MHz) |                 |
|-------------------|-----------------|-------------------------------|-----------------|
|                   |                 | Access Terminal               | Access Network  |
| A                 | 0               | 824.025–835.005               | 869.025–880.005 |
|                   |                 | 844.995–846.495               | 889.995–891.495 |
|                   | 1               | 824.025–835.005               | 869.025–880.005 |
|                   |                 | 844.995–848.985               | 889.995–893.985 |
| 2                 | 824.025–829.995 | 869.025–874.995               |                 |
|                   | 3               | 815.025–829.995               | 860.025–874.995 |
| B                 | 0               | 835.005–844.995               | 880.005–889.995 |
|                   |                 | 846.495–848.985               | 891.495–893.985 |
|                   | 1               | 835.005–844.995               | 880.005–889.995 |

2

3

4

**Table 3.1.1-2. CDMA Channel Number to CDMA Frequency Assignment Correspondence for Band Class 0**

| Transmitter     | CDMA Channel Number     | Center Frequency for CDMA Channel (MHz) |
|-----------------|-------------------------|---|
| Access Terminal | $1 \leq N \leq 799$     | $0.030 N + 825.000$                     |
|                 | $991 \leq N \leq 1023$  | $0.030 (N - 1023) + 825.000$            |
|                 | $1024 \leq N \leq 1323$ | $0.030 (N - 1024) + 815.040$            |
| Access Network  | $1 \leq N \leq 799$     | $0.030 N + 870.000$                     |
|                 | $991 \leq N \leq 1023$  | $0.030 (N - 1023) + 870.000$            |
|                 | $1024 \leq N \leq 1323$ | $0.030 (N - 1024) + 860.040$            |

5

**Table 3.1.1-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 0**

| Band Subclass | System Designator | CDMA Channel Validity           | CDMA Channel Number           | Transmit Frequency Band (MHz)                         |   |
|---------------|-------------------|---------------------------------|-------------------------------|---|---|
|               |                   |                                 |                               | Access Terminal                                       | Access Network  |
| 0             | A"<br>(1 MHz)     | Not Valid<br>Valid              | 991-1012<br>1013-1023         | 824.040-824.670<br>824.700-825.000                    | 869.040-869.670<br>869.700-870.000                    |
|               | A<br>(10 MHz)     | Valid<br>Not Valid              | 1-311<br>312-333              | 825.030-834.330<br>834.360-834.990                    | 870.030-879.330<br>879.360-879.990                    |
|               | B<br>(10 MHz)     | Not Valid<br>Valid<br>Not Valid | 334-355<br>356-644<br>645-666 | 835.020-835.650<br>835.680-844.320<br>844.350-844.980 | 880.020-880.650<br>880.680-889.320<br>889.350-889.980 |
|               | A'<br>(1.5 MHz)   | Not Valid<br>Valid<br>Not Valid | 667-688<br>689-694<br>695-716 | 845.010-845.640<br>845.670-845.820<br>845.850-846.480 | 890.010-890.640<br>890.670-890.820<br>890.850-891.480 |
|               | B'<br>(2.5 MHz)   | Not Valid<br>Valid<br>Not Valid | 717-738<br>739-777<br>778-799 | 846.510-847.140<br>847.170-848.310<br>848.340-848.970 | 891.510-892.140<br>892.170-893.310<br>893.340-893.970 |
| 1             | A"<br>(1 MHz)     | Not Valid<br>Valid              | 991-1012<br>1013-1023         | 824.040-824.670<br>824.700-825.000                    | 869.040-869.670<br>869.700-870.000                    |
|               | A<br>(10 MHz)     | Valid<br>Not Valid              | 1-311<br>312-333              | 825.030-834.330<br>834.360-834.990                    | 870.030-879.330<br>879.360-879.990                    |
|               | B<br>(10 MHz)     | Not Valid<br>Valid<br>Not Valid | 334-355<br>356-644<br>645-666 | 835.020-835.650<br>835.680-844.320<br>844.350-844.980 | 880.020-880.650<br>880.680-889.320<br>889.350-889.980 |
|               | A'<br>(1.5 MHz)   | Not Valid<br>Valid              | 667-688<br>689-716            | 845.010-845.640<br>845.670-846.480                    | 890.010-890.640<br>890.670-891.480                    |
|               | A'''<br>(2.5 MHz) | Valid<br>Not Valid              | 717-779<br>780-799            | 846.510-848.370<br>848.400-848.970                    | 891.510-893.370<br>893.400-893.970                    |
| 2             | A"<br>(1 MHz)     | Valid                           | 991-1023                      | 824.040-825.000                                       | 869.040-870.000                                       |
|               | A<br>(5 MHz)      | Valid<br>Not Valid              | 1-142<br>143-166              | 825.030-829.260<br>829.290-829.980                    | 870.030-874.260<br>874.290-874.980                    |
| 3             | A''''<br>(9 MHz)  | Not Valid<br>Valid              | 1024-1047<br>1048-1323        | 815.040-815.730<br>815.760-824.010                    | 860.040-860.730<br>860.760-869.010                    |
|               | A"<br>(1 MHz)     | Valid                           | 991-1023                      | 824.040-825.000                                       | 869.040-870.000                                       |
|               | A<br>(5 MHz)      | Valid<br>Not Valid              | 1-142<br>143-166              | 825.030-829.260<br>829.290-829.980                    | 870.030-874.260<br>874.290-874.980                    |

## 1 3.1.2 Band Class 1 (1900-MHz Band)

2 The Band Class 1 block designators for the access terminal and access network shall be as  
3 specified in Table 3.1.2-1.

4 Access terminals supporting Band Class 1 shall be capable of transmitting in Band Class  
5 1.

6 The channel spacing, CDMA channel designations, and transmitter center frequencies of  
7 Band Class 1 shall be as specified in Table 3.1.2-2. Access terminals supporting Band  
8 Class 1 shall support transmission on the valid and conditionally valid channel numbers  
9 shown in Table 3.1.2-3. Note that certain channel assignments are not valid and others are  
10 conditionally valid. Transmission on conditionally valid channels is permissible if the  
11 adjacent block is allocated to the same licensee or if other valid authorization has been  
12 obtained.

13 For CDMA equipment conforming to [2], or its older versions, the nominal access terminal  
14 transmit carrier frequency shall be 80.0 MHz lower than the frequency of the access  
15 network transmit signal as measured at the access terminal receiver.

16

17

**Table 3.1.2-1. Band Class 1 Block Frequency Correspondence**

| <b>Block Designator</b> | <b>Transmit Frequency Band (MHz)</b> |                       |
|-------------------------|--------------------------------------|-----------------------|
|                         | <b>Access Terminal</b>               | <b>Access Network</b> |
| A                       | 1850–1865                            | 1930–1945             |
| D                       | 1865–1870                            | 1945–1950             |
| B                       | 1870–1885                            | 1950–1965             |
| E                       | 1885–1890                            | 1965–1970             |
| F                       | 1890–1895                            | 1970–1975             |
| C                       | 1895–1910                            | 1975–1990             |

18

19

20

**Table 3.1.2-2. CDMA Channel Number to CDMA Frequency Assignment Correspondence for Band Class 1**

| <b>Transmitter</b> | <b>CDMA Channel Number</b> | <b>Center Frequency for CDMA Channel (MHz)</b> |
|--------------------|----------------------------|--|
| Access Terminal    | $0 \leq N \leq 1199$       | $1850.000 + 0.050 N$                           |
| Access Network     | $0 \leq N \leq 1199$       | $1930.000 + 0.050 N$                           |

21

**Table 3.1.2-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 1**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|------------------|-----------------------|---------------------|-------------------------------|-------------------|
|                  |                       |                     | Access Terminal               | Access Network    |
| A<br>(15 MHz)    | Not Valid             | 0–24                | 1850.000–1851.200             | 1930.000–1931.200 |
|                  | Valid                 | 25–275              | 1851.250–1863.750             | 1931.250–1943.750 |
|                  | Cond. Valid           | 276–299             | 1863.800–1864.950             | 1943.800–1944.950 |
| D<br>(5 MHz)     | Cond. Valid           | 300–324             | 1865.000–1866.200             | 1945.000–1946.200 |
|                  | Valid                 | 325–375             | 1866.250–1868.750             | 1946.250–1948.750 |
|                  | Cond. Valid           | 376–399             | 1868.800–1869.950             | 1948.800–1949.950 |
| B<br>(15 MHz)    | Cond. Valid           | 400–424             | 1870.000–1871.200             | 1950.000–1951.200 |
|                  | Valid                 | 425–675             | 1871.250–1883.750             | 1951.250–1963.750 |
|                  | Cond. Valid           | 676–699             | 1883.800–1884.950             | 1963.800–1964.950 |
| E<br>(5 MHz)     | Cond. Valid           | 700–724             | 1885.000–1886.200             | 1965.000–1966.200 |
|                  | Valid                 | 725–775             | 1886.250–1888.750             | 1966.250–1968.750 |
|                  | Cond. Valid           | 776–799             | 1888.800–1889.950             | 1968.800–1969.950 |
| F<br>(5 MHz)     | Cond. Valid           | 800–824             | 1890.000–1891.200             | 1970.000–1971.200 |
|                  | Valid                 | 825–875             | 1891.250–1893.750             | 1971.250–1973.750 |
|                  | Cond. Valid           | 876–899             | 1893.800–1894.950             | 1973.800–1974.950 |
| C<br>(15 MHz)    | Cond. Valid           | 900–924             | 1895.000–1896.200             | 1975.000–1976.200 |
|                  | Valid                 | 925–1175            | 1896.250–1908.750             | 1976.250–1988.750 |
|                  | Not Valid             | 1176–1199           | 1908.800–1909.950             | 1988.800–1989.950 |

### 3.1.3 Band Class 2 (TACS Band)

The Band Class 2 block designators for the access terminal and access network shall be as specified in Table 3.1.3-1.

Access terminals supporting Band Class 2 shall be capable of transmitting in Band Class 2 using at least one band subclass. The band subclasses for Band Class 2 are specified in Table 3.1.3-2.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 2 shall be as specified in Table 3.1.3-3. Access terminals supporting Band Class 2 shall support transmission on the valid and conditionally valid channel numbers shown in Table 3.1.3-4. Transmission on the conditionally valid channels is permissible if valid authorization has been obtained.

For CDMA equipment conforming to [2], or its older versions, the nominal access terminal transmit carrier frequency shall be 45.0 MHz lower than the frequency of the access network transmit signal as measured at the access terminal receiver.

1

**Table 3.1.3-1. Band Class 2 Block Frequency Correspondence**

| Block Designator | Transmit Frequency Band (MHz) |                   |
|------------------|-------------------------------|-------------------|
|                  | Access Terminal               | Access Network    |
| A                | 872.0125–879.9875             | 917.0125–924.9875 |
|                  | 890.0125–897.4875             | 935.0125–942.4875 |
|                  | 905.0125–908.9875             | 950.0125–953.9875 |
| B                | 880.0125–887.9875             | 925.0125–932.9875 |
|                  | 897.5125–904.9875             | 942.5125–949.9875 |
|                  | 909.0125–914.9875             | 954.0125–959.9875 |

2

3

**Table 3.1.3-2. Band Class 2 Band Subclasses**

| Band Subclass | Number of Channels Covered | Channels Covered          |
|---------------|----------------------------|---------------------------|
| 0             | 600                        | 1–600                     |
| 1             | 1000                       | 1–1000                    |
| 2             | 1320                       | 1329–2047<br>and<br>0–600 |

4

5

6

**Table 3.1.3-3. CDMA Channel Number to CDMA Frequency Assignment Correspondence for Band Class 2**

| Transmitter     | CDMA Channel Number     | Center Frequency for CDMA Channel (MHz) |
|-----------------|-------------------------|---|
| Access Terminal | $0 \leq N \leq 1000$    | $0.025 N + 889.9875$                    |
|                 | $1329 \leq N \leq 2047$ | $0.025 (N - 1328) + 871.9875$           |
| Access Network  | $0 \leq N \leq 1000$    | $0.025 N + 934.9875$                    |
|                 | $1329 \leq N \leq 2047$ | $0.025 (N - 1328) + 916.9875$           |

7

**Table 3.1.3-4. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 2**

| Block Designator      | CDMA Channel Validity              | CDMA Channel Number    | Transmit Frequency Band (MHz)          |  |
|-----------------------|------------------------------------|------------------------|--|--|
|                       |                                    |                        | Access Terminal                        | Access Network                         |
| A ETACS<br>(8 MHz)    | Not Valid<br>Valid-1320            | 1329–1355<br>1356–1648 | 872.0125–872.6625<br>872.6875–879.9875 | 917.0125–917.6625<br>917.6875–924.9875 |
| B ETACS<br>(8 MHz)    | Valid-1320<br>Cond. Valid-<br>1320 | 1649–1941<br>1942–1968 | 880.0125–887.3125<br>887.3375–887.9875 | 925.0125–932.3125<br>932.3375–932.9875 |
| Unassigned<br>(2 MHz) | Cond. Valid-<br>1320               | 1969–2047<br>0         | 888.0125–889.9625<br>889.9875          | 933.0125–934.9625<br>934.9875          |
| A<br>(7.5 MHz)        | Cond. Valid-<br>1320<br>Valid      | 1–27<br>28–300         | 890.0125–890.6625<br>890.6875–897.4875 | 935.0125–935.6625<br>935.6875–942.4875 |
| B<br>(7.5 MHz)        | Valid<br>Valid-1000                | 301–573<br>574–600     | 897.5125–904.3125<br>904.3375–904.9875 | 942.5125–949.3125<br>949.3375–949.9875 |
| A'<br>(4 MHz)         | Valid-1000                         | 601–760                | 905.0125–908.9875                      | 950.0125–953.9875                      |
| B'<br>(6 MHz)         | Valid-1000<br>Not Valid            | 761–973<br>974–1000    | 909.0125–914.3125<br>914.3375–914.9875 | 954.0125–959.3125<br>959.3375–959.9875 |

Valid and Not Valid apply to the channels for the access terminals of all three band subclasses. Valid-1000 means that the channels are only valid for the access terminals of band subclass 1. Valid-1320 means that the channels are only valid for the access terminals of band subclass 2. Cond. Valid-1320 means that the channels are conditionally valid for the access terminals of band subclass 2, and that they are not valid for the access terminals of band subclasses 0 and 1.

#### 3.1.4 Band Class 3 (JTACS Band)

The Band Class 3 system designators for the access terminal and access network shall be as specified in Table 3.1.4-1.

Access terminals supporting Band Class 3 shall be capable of transmitting in Band Class 3.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 3 shall be as specified in Table 3.1.4-2. Access terminals supporting Band Class 3 shall support transmission on the valid channel numbers shown in Table 3.1.4-3.

For CDMA equipment conforming to [2], or its older versions, the nominal access terminal transmit carrier frequency shall be 55.0 MHz higher than the frequency of the access network transmit signal as measured at the access terminal receiver.

**Table 3.1.4-1. Band Class 3 System Frequency Correspondence**

| System Designator | Transmit Frequency Band (MHz) |                   |
|-------------------|-------------------------------|-------------------|
|                   | Access Terminal               | Access Network    |
| A                 | 887.0125–888.9875             | 832.0125–833.9875 |
|                   | 893.0125–898.0000             | 838.0125–843.0000 |
|                   | 898.0125–900.9875             | 843.0125–845.9875 |
|                   | 915.0125–924.9875             | 860.0125–869.9875 |
| B                 | Not specified                 | Not specified     |

**Table 3.1.4-2. CDMA Channel Number to CDMA Frequency Assignment Correspondence for Band Class 3**

| Transmitter     | CDMA Channel Number     | Center Frequency for CDMA Channel (MHz) |
|-----------------|-------------------------|---|
| Access Terminal | $1 \leq N \leq 799$     | $0.0125 N + 915.000$                    |
|                 | $801 \leq N \leq 1039$  | $0.0125 (N - 800) + 898.000$            |
|                 | $1041 \leq N \leq 1199$ | $0.0125 (N - 1040) + 887.000$           |
|                 | $1201 \leq N \leq 1600$ | $0.0125 (N - 1200) + 893.000$           |
| Access Network  | $1 \leq N \leq 799$     | $0.0125 N + 860.000$                    |
|                 | $801 \leq N \leq 1039$  | $0.0125 (N - 800) + 843.000$            |
|                 | $1041 \leq N \leq 1199$ | $0.0125 (N - 1040) + 832.000$           |
|                 | $1201 \leq N \leq 1600$ | $0.0125 (N - 1200) + 838.000$           |

In this table, only even-valued N values are valid.



**Table 3.1.4-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 3**

| System Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|-------------------|-----------------------|---------------------|-------------------------------|-------------------|
|                   |                       |                     | Access Terminal               | Access Network    |
| A1<br>(2 MHz)     | Not Valid             | 1041–1099           | 887.0125–887.7375             | 832.0125–832.7375 |
|                   | Valid                 | 1100–1140           | 887.7500–888.2500             | 832.7500–833.2500 |
|                   | Not Valid             | 1141–1199           | 888.2625–888.9875             | 833.2625–833.9875 |
| A3<br>(5 MHz)     | Not Valid             | 1201–1259           | 893.0125–893.7375             | 838.0125–838.7375 |
|                   | Valid                 | 1260–1540           | 893.7500–897.2500             | 838.7500–842.2500 |
|                   | Cond. Valid           | 1541–1600           | 897.2625–898.0000             | 842.2625–843.0000 |
| A2<br>(3 MHz)     | Cond. Valid           | 801–859             | 898.0125–898.7375             | 843.0125–843.7375 |
|                   | Valid                 | 860–980             | 898.7500–900.2500             | 843.7500–845.2500 |
|                   | Not Valid             | 981–1039            | 900.2625–900.9875             | 845.2625–845.9875 |
| A<br>(10 MHz)     | Not Valid             | 1–59                | 915.0125–915.7375             | 860.0125–860.7375 |
|                   | Valid                 | 60–740              | 915.7500–924.2500             | 860.7500–869.2500 |
|                   | Not Valid             | 741–799             | 924.2625–924.9875             | 869.2625–869.9875 |
| B                 | Not specified         | Not specified       | Not specified                 | Not specified     |

#### 3.1.5 Band Class 4 (Korean PCS Band)

The Band Class 4 block designators for the access terminal and access network shall be as specified in Table 3.1.5-1.

Access terminals supporting Band Class 4 shall be capable of transmitting in Band Class 4.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 4 shall be as specified in Table 3.1.5-2. Access terminals supporting Band Class 4 shall support transmission on the valid and conditionally valid channel numbers shown in Table 3.1.5-3. Transmission on conditionally valid channels is permissible if the adjacent block is allocated to the same licensee or if other valid authorization has been obtained.

For CDMA equipment conforming to [2], or its older versions, the nominal access terminal transmit carrier frequency shall be 90.0 MHz lower than the frequency of the access network transmit signal as measured at the access terminal receiver.

**Table 3.1.5-1. Band Class 4 Block Frequency Correspondence**

| Block Designator | Transmit Frequency Band (MHz) |                |
|------------------|-------------------------------|----------------|
|                  | Access Terminal               | Access Network |
| A                | 1750–1760                     | 1840–1850      |
| B                | 1760–1770                     | 1850–1860      |
| C                | 1770–1780                     | 1860–1870      |

**Table 3.1.5-2. CDMA Channel Number to CDMA Frequency Assignment Correspondence for Band Class 4**

| Transmitter     | CDMA Channel Number | Center Frequency for CDMA Channel (MHz) |
|-----------------|---------------------|---|
| Access Terminal | $0 \leq N \leq 599$ | $0.050 N + 1750.000$                    |
| Access Network  | $0 \leq N \leq 599$ | $0.050 N + 1840.000$                    |

**Table 3.1.5-3. CDMA Channel Numbers and Corresponding Frequencies for Band Class 4**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|------------------|-----------------------|---------------------|-------------------------------|-------------------|
|                  |                       |                     | Access Terminal               | Access Network    |
| A<br>(10 MHz)    | Not Valid             | 0–24                | 1750.000–1751.200             | 1840.000–1841.200 |
|                  | Valid                 | 25–175              | 1751.250–1758.750             | 1841.250–1848.750 |
|                  | Cond. Valid           | 176–199             | 1758.800–1759.950             | 1848.800–1849.950 |
| B<br>(10 MHz)    | Cond. Valid           | 200–224             | 1760.000–1761.200             | 1850.000–1851.200 |
|                  | Valid                 | 225–375             | 1761.250–1768.750             | 1851.250–1858.750 |
|                  | Cond. Valid           | 376–399             | 1768.800–1769.950             | 1858.800–1859.950 |
| C<br>(10 MHz)    | Cond. Valid           | 400–424             | 1770.000–1771.200             | 1860.000–1861.200 |
|                  | Valid                 | 425–575             | 1771.250–1778.750             | 1861.250–1868.750 |
|                  | Not Valid             | 576–599             | 1778.800–1779.950             | 1868.800–1869.950 |

### 3.1.6 Band Class 5 (450-MHz Band)

The Band Class 5 block designators for the access terminal and access network shall be as specified in Table 3.1.6-1.

There are twelve band subclasses<sup>9</sup> specified for Band Class 5. Each band subclass corresponds to a specific block designator (see Table 3.1.6-1). Each band subclass includes

<sup>9</sup> Blocks I, J and K are occupy the same frequency band as blocks H, G and F, respectively. Channel spacing is 20 kHz for blocks F, G and H, while channel spacing is 25 kHz for blocks I, J and K. Blocks I, J or K should be used for new deployments instead of blocks H, G or F respectively.

1 all the channels designated for that system. Access terminals supporting Band Class 5  
 2 shall be capable of transmitting in at least one band subclass belonging to Band Class 5.  
 3 For access terminals capable of transmitting in more than one band subclass belonging to  
 4 Band Class 5, one band subclass shall be designated as the Primary Band Subclass, which  
 5 is the band subclass used by the access terminal's home system.

6 The channel spacing, CDMA channel designations, and transmitter center frequencies of  
 7 Band Class 5 shall be as specified in Table 3.1.6-2. Note that certain channel assignments  
 8 are not valid and others are conditionally valid. Access terminals supporting Band Class 5  
 9 shall support operations on the valid and conditionally valid channel numbers of the  
 10 supported blocks shown in Table 3.1.6-3. Access networks supporting Band Class 5 shall  
 11 support operations on the valid and may support operations on the conditionally valid  
 12 channel numbers of the supported blocks shown in Table 3.1.6-3. Transmission on  
 13 conditionally valid channels is permissible if the adjacent block is allocated to the same  
 14 licensee or if other valid authorization has been obtained.

15 For CDMA equipment conforming to [2], or its older versions, the nominal access terminal  
 16 transmit carrier frequency shall be 10.0 MHz lower than the frequency of the access  
 17 network transmit signal as measured at the access terminal receiver.

18  
 19 **Table 3.1.6-1. Band Class 5 Block Frequency Correspondence and Band Subclasses**

| Block Designator | Band Subclass | Transmit Frequency Band (MHz) |                 |
|------------------|---------------|-------------------------------|-----------------|
|                  |               | Access Terminal               | Access Network  |
| A                | 0             | 452.500–457.475               | 462.500–467.475 |
| B                | 1             | 452.000–456.475               | 462.000–466.475 |
| C                | 2             | 450.000–454.800               | 460.000–464.800 |
| D                | 3             | 411.675–415.850               | 421.675–425.850 |
| E                | 4             | 415.500–419.975               | 425.500–429.975 |
| F                | 5             | 479.000–483.480               | 489.000–493.480 |
| G                | 6             | 455.230–459.990               | 465.230–469.990 |
| H                | 7             | 451.310–455.730               | 461.310–465.730 |
| I                | 8             | 451.325–455.725               | 461.325–465.725 |
| J                | 9             | 455.250–459.975               | 465.250–469.975 |
| K                | 10            | 479.000–483.475               | 489.000–493.475 |
| L                | 11            | 410.000–414.975               | 420.000–424.975 |

20

1  
2

**Table 3.1.6-2. CDMA Channel Number to CDMA Frequency  
Assignment Correspondence for Band Class 5**

| <b>Transmitter</b> | <b>CDMA Channel Number</b> | <b>Center Frequency for<br/>CDMA Channel (MHz)</b> |
|--------------------|----------------------------|--|
| Access Terminal    | $1 \leq N \leq 400$        | $0.025 (N - 1) + 450.000$                          |
|                    | $472 \leq N \leq 871$      | $0.025 (N - 472) + 410.000$                        |
|                    | $1039 \leq N \leq 1473$    | $0.020 (N - 1024) + 451.010$                       |
|                    | $1536 \leq N \leq 1715$    | $0.025 (N - 1536) + 479.000$                       |
|                    | $1792 \leq N \leq 2016$    | $0.020 (N - 1792) + 479.000$                       |
| Access Network     | $1 \leq N \leq 400$        | $0.025 (N - 1) + 460.000$                          |
|                    | $472 \leq N \leq 871$      | $0.025 (N - 472) + 420.000$                        |
|                    | $1039 \leq N \leq 1473$    | $0.020 (N - 1024) + 461.010$                       |
|                    | $1536 \leq N \leq 1715$    | $0.025 (N - 1536) + 489.000$                       |
|                    | $1792 \leq N \leq 2016$    | $0.020 (N - 1792) + 489.000$                       |

3

**Table 3.1.6-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 5**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                 |
|------------------|-----------------------|---------------------|-------------------------------|-----------------|
|                  |                       |                     | Access Terminal               | Access Network  |
| A<br>(4.5 MHz)   | Not Valid             | 121–125             | 453.000–453.100               | 463.000–463.100 |
|                  | Cond. Valid           | 126–145             | 453.125–453.600               | 463.125–463.600 |
|                  | Valid                 | 146–275             | 453.625–456.850               | 463.625–466.850 |
|                  | Not Valid             | 276–300             | 456.875–457.475               | 466.875–467.475 |
| A'<br>(0.5 MHz)  | Not Valid             | 101–120             | 452.500–452.975               | 462.500–462.975 |
| B<br>(4.5 MHz)   | Not Valid             | 81–105              | 452.000–452.600               | 462.000–462.600 |
|                  | Valid                 | 106–235             | 452.625–455.850               | 462.625–465.850 |
|                  | Not Valid             | 236–260             | 455.875–456.475               | 465.875–466.475 |
| C<br>(4.8 MHz)   | Not Valid             | 1–25                | 450.000–450.600               | 460.000–460.600 |
|                  | Valid                 | 26–168              | 450.625–454.175               | 460.625–464.175 |
|                  | Not Valid             | 169–193             | 454.200–454.800               | 464.200–464.800 |
| D<br>(4.2 MHz)   | Not Valid             | 539–563             | 411.675–412.275               | 421.675–422.275 |
|                  | Valid                 | 564–681             | 412.300–415.225               | 422.300–425.225 |
|                  | Not Valid             | 682–706             | 415.250–415.850               | 425.250–425.850 |
| E<br>(4.5 MHz)   | Not Valid             | 692–716             | 415.500–416.100               | 425.500–426.100 |
|                  | Valid                 | 717–846             | 416.125–419.350               | 426.125–429.350 |
|                  | Not Valid             | 847–871             | 419.375–419.975               | 429.375–429.975 |
| F<br>(4.5 MHz)   | Not Valid             | 1792–1822           | 479.000–479.600               | 489.000–489.600 |
|                  | Valid                 | 1823–1985           | 479.620–482.860               | 489.620–492.860 |
|                  | Not Valid             | 1986–2016           | 482.880–483.480               | 492.880–493.480 |
| G<br>(4.78 MHz)  | Not Valid             | 1235–1265           | 455.230–455.830               | 465.230–465.830 |
|                  | Valid                 | 1266–1442           | 455.850–459.370               | 465.850–469.370 |
|                  | Not Valid             | 1443–1473           | 459.390–459.990               | 469.390–469.990 |
| H<br>(4.44 MHz)  | Not Valid             | 1039–1069           | 451.310–451.910               | 461.310–461.910 |
|                  | Valid                 | 1070–1229           | 451.930–455.110               | 461.930–465.110 |
|                  | Not Valid             | 1230–1260           | 455.130–455.730               | 465.130–465.730 |
| I<br>(4.425 MHz) | Not Valid             | 54–78               | 451.325–451.925               | 461.325–461.925 |
|                  | Valid                 | 79–205              | 451.950–455.100               | 461.950–465.100 |
|                  | Not Valid             | 206–230             | 455.125–455.725               | 465.125–465.725 |
| J<br>(4.75 MHz)  | Not Valid             | 211–234             | 455.250–455.825               | 465.250–465.825 |
|                  | Valid                 | 235–376             | 455.850–459.375               | 465.850–469.375 |
|                  | Not Valid             | 377–400             | 459.400–459.975               | 469.400–469.975 |
| K<br>(4.5 MHz)   | Not Valid             | 1536–1560           | 479.000–479.600               | 489.000–489.600 |
|                  | Valid                 | 1561–1690           | 479.625–482.850               | 489.625–492.850 |
|                  | Not Valid             | 1691–1715           | 482.875–483.475               | 492.875–493.475 |

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                 |
|------------------|-----------------------|---------------------|-------------------------------|-----------------|
|                  |                       |                     | Access Terminal               | Access Network  |
| L<br>(4.5 MHz)   | Not Valid             | 472–504             | 410.000–410.800               | 420.000–420.800 |
|                  | Valid                 | 505–646             | 410.825–414.350               | 420.825–424.375 |
|                  | Not Valid             | 647–671             | 414.375–414.975               | 423.875–424.975 |

### 3.1.7 Band Class 6 (2-GHz Band)

The Band Class 6 block designators for the access terminal and access network are not specified, since licensee allocations vary by regulatory body.

Access terminals supporting Band Class 6 shall be capable of transmitting in Band Class 6.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 6 shall be as specified in Table 3.1.7-1. Access terminals supporting Band Class 6 shall support transmission on the valid channel numbers shown in Table 3.1.7-2.

For CDMA equipment conforming to [2], or its older versions, the nominal access terminal transmit carrier frequency shall be 190.0 MHz lower than the frequency of the access network transmit signal as measured at the access terminal receiver.

**Table 3.1.7-1. CDMA Channel Number to CDMA Frequency Assignment Correspondence for Band Class 6**

| Transmitter     | CDMA Channel Number  | Center Frequency for CDMA Channel (MHz) |
|-----------------|----------------------|---|
| Access Terminal | $0 \leq N \leq 1199$ | $1920.000 + 0.050 N$                    |
| Access Network  | $0 \leq N \leq 1199$ | $2110.000 + 0.050 N$                    |

**Table 3.1.7-2. CDMA Channel Numbers and Corresponding Frequencies for Band Class 6**

| CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|-----------------------|---------------------|-------------------------------|-------------------|
|                       |                     | Access Terminal               | Access Network    |
| Not Valid             | 0–24                | 1920.000–1921.200             | 2110.000–2111.200 |
| Valid                 | 25–1175             | 1921.250–1978.750             | 2111.250–2168.750 |
| Not Valid             | 1176–1199           | 1978.800–1979.950             | 2168.800–2169.950 |

Channel numbers less than 1.25 MHz from the licensee's band edge are not valid.

1 3.1.8 Band Class 7 (700-MHz Band)

2 The Band Class 7 block designators for the access terminal and access network shall be as  
3 specified in Table 3.1.8-1.

4 Access terminals supporting Band Class 7 shall be capable of transmitting in Band Class  
5 7.

6 The channel spacing, CDMA channel designations, and transmitter center frequencies of  
7 Band Class 7 shall be as specified in Table 3.1.8-2. Access terminals supporting Band  
8 Class 7 shall support operations on the valid and conditionally valid channel numbers  
9 shown in Table 3.1.8-3. Note that certain channel assignments are not valid and others are  
10 conditionally valid. Transmission on conditionally valid channels is permissible if the  
11 adjacent block is allocated to the same licensee or if other valid authorization has been  
12 obtained.

13 For CDMA equipment conforming to [2], or its older versions, the nominal access terminal  
14 transmit carrier frequency shall be 30.0 MHz higher than the frequency of the access  
15 network transmit signal as measured at the access terminal receiver.

16  
17 **Table 3.1.8-1. Band Class 7 Block Frequency Correspondence**

| Block Designator | Transmit Frequency Band (MHz) |                |
|------------------|-------------------------------|----------------|
|                  | Access Terminal               | Access Network |
| A                | 776-777                       | 746-747        |
| C                | 777-782                       | 747-752        |
| D                | 782-792                       | 752-762        |
| B                | 792-794                       | 762-764        |

18  
19 **Table 3.1.8-2. CDMA Channel Number to CDMA Frequency**  
20 **Assignment Correspondence for Band Class 7**

| Transmitter     | CDMA Channel Number | Center Frequency for CDMA Channel (MHz) |
|-----------------|---------------------|---|
| Access Terminal | $0 \leq N \leq 359$ | $776.000 + 0.050 N$                     |
| Access Network  | $0 \leq N \leq 359$ | $746.000 + 0.050 N$                     |

**Table 3.1.8-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 7**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                 |
|------------------|-----------------------|---------------------|-------------------------------|-----------------|
|                  |                       |                     | Access Terminal               | Access Network  |
| A<br>(1 MHz)     | Not Valid             | 0–19                | 776.000–776.950               | 746.000–746.950 |
| C<br>(5 MHz)     | Not Valid             | 20–44               | 777.000–778.200               | 747.000–748.200 |
|                  | Valid                 | 45–95               | 778.250–780.750               | 748.250–750.750 |
|                  | Cond. Valid           | 96–119              | 780.800–781.950               | 750.800–751.950 |
| D<br>(10 MHz)    | Cond. Valid           | 120–144             | 782.000–783.200               | 752.000–753.200 |
|                  | Valid                 | 145–295             | 783.250–790.750               | 753.250–760.750 |
|                  | Not Valid             | 296–319             | 790.800–791.950               | 760.800–761.950 |
| B<br>(2 MHz)     | Not Valid             | 320–359             | 792.000–793.950               | 762.000–763.950 |

#### 3.1.9 Band Class 8 (1800-MHz Band)

The Band Class 8 block designators for the access terminal and the access network are not specified.

Access terminals supporting Band Class 8 shall be capable of transmitting in Band Class 8.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 8 shall be as specified in Table 3.1.9-1. Access terminals supporting Band Class 8 shall support transmission on the valid channel numbers shown in Table 3.1.9-2.

For CDMA equipment conforming to [2], or its older versions, the nominal access terminal transmit carrier frequency shall be 95.0 MHz lower than the frequency of the access network transmit signal as measured at the access terminal receiver.

**Table 3.1.9-1. CDMA Channel Number to CDMA Frequency  
Assignment Correspondence for Band Class 8**

| Transmitter     | CDMA Channel Number  | Center Frequency for CDMA Channel (MHz) |
|-----------------|----------------------|---|
| Access Terminal | $0 \leq N \leq 1499$ | $1710.000 + 0.050 N$                    |
| Access Network  | $0 \leq N \leq 1499$ | $1805.000 + 0.050 N$                    |



**Table 3.1.9-2. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 8**

| CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|-----------------------|---------------------|-------------------------------|-------------------|
|                       |                     | Access Terminal               | Access Network    |
| Not Valid             | 0–24                | 1710.000–1711.200             | 1805.000-1806.200 |
| Valid                 | 25–1475             | 1711.250-1783.750             | 1806.250-1878.750 |
| Not Valid             | 1476–1499           | 1783.800-1784.950             | 1878.800-1879.950 |

Channel numbers less than 1.25 MHz from the licensee's band edge are not valid.

#### 3.1.10 Band Class 9 (900-MHz Band)

The Band Class 9 block designators for the access terminal and the access network are not specified.

Access terminals supporting Band Class 9 shall be capable of transmitting in Band Class 9.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 9 shall be as specified in Table 3.1.10-1. Access terminals supporting Band Class 9 shall support transmission on the valid channel numbers shown Table 3.1.10-2.

For CDMA equipment conforming to [2], or its older versions, the nominal access terminal transmit carrier frequency shall be 45.0 MHz lower than the frequency of the access network transmit signal as measured at the access terminal receiver.

**Table 3.1.10-1. CDMA Channel Number to CDMA Frequency  
Assignment Correspondence for Band Class 9**

| Transmitter     | CDMA Channel Number | Center Frequency for CDMA Channel (MHz) |
|-----------------|---------------------|---|
| Access Terminal | $0 \leq N \leq 699$ | $880.000 + 0.050 N$                     |
| Access Network  | $0 \leq N \leq 699$ | $925.000 + 0.050 N$                     |

**Table 3.1.10-2. CDMA Channel Numbers and Corresponding Frequencies for Band Class 9**

| CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                 |
|-----------------------|---------------------|-------------------------------|-----------------|
|                       |                     | Access Terminal               | Access Network  |
| Not Valid             | 0–24                | 880.000–881.200               | 925.000–926.200 |
| Valid                 | 25–675              | 881.250–913.750               | 926.250–958.750 |
| Not Valid             | 676–699             | 913.800–914.950               | 958.800–959.950 |

Channel numbers less than 1.25 MHz from the licensee's band edge are not valid.

### 3.1.11 Band Class 10 (Secondary 800 MHz Band)

The Band Class 10 system designators for the CDMA equipment shall be as specified in Table 3.1.11-1. There are five band subclasses specified for Band Class 10. CDMA equipments supporting Band Class 10 shall support at least one band subclass belonging to Band Class 10. CDMA equipments supporting Band Class 10 shall be capable of transmitting in Band Class 10.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 10 shall be as specified in Table 3.1.11-2. CDMA equipments supporting Band Class 10 shall support transmission on the valid channel numbers shown in Table 2.1.11-3.

For CDMA equipment conforming to [2], or its older versions, the access terminal shall transmit the Reverse Traffic Channel on the CDMA Channel designated by CDMACH<sub>s</sub>, and the nominal access terminal transmit carrier frequency shall be 45.0 MHz (Band Subclasses 0, 1, 2, and 3) or 39.0 MHz (Band Subclass 4) lower than the frequency of the access network transmit signal as measured at the access terminal receiver.

**Table 3.1.11-1. Band Class 10 System Frequency Correspondence**

| System Designator | Band Subclass | Transmit Frequency Band (MHz) |                 |
|-------------------|---------------|-------------------------------|-----------------|
|                   |               | Access Terminal               | Access Network  |
| A                 | 0             | 806.000–810.975               | 851.000–855.975 |
| B                 | 1             | 811.000–815.975               | 856.000–860.975 |
| C                 | 2             | 816.000–820.975               | 861.000–865.975 |
| D                 | 3             | 821.000–823.975               | 866.000–868.975 |
| E                 | 4             | 896.000–900.975               | 935.000–939.975 |

**Table 3.1.11-2. CDMA Channel Number to CDMA Frequency Assignment Correspondence for Band Class 10**

| Transmitter     | CDMA Channel Number   | Center Frequency for CDMA Channel (MHz) |
|-----------------|-----------------------|---|
| Access Terminal | $0 \leq N \leq 719$   | $0.025 N + 806.000$                     |
|                 | $720 \leq N \leq 919$ | $0.025 (N - 720) + 896.000$             |
| Access Network  | $0 \leq N \leq 719$   | $0.025 N + 851.000$                     |
|                 | $720 \leq N \leq 919$ | $0.025 (N - 720) + 935.000$             |

**Table 3.1.11-3. CDMA Channel Numbers and Corresponding Frequencies for Band Class 10**

| Band Subclass | System Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                 |
|---------------|-------------------|-----------------------|---------------------|-------------------------------|-----------------|
|               |                   |                       |                     | Access Terminal               | Access Network  |
| 0             | A                 | Not Valid             | 0-49                | 806.000-807.225               | 851.000-852.225 |
|               |                   | Valid                 | 50-150              | 807.250-809.750               | 852.250-854.750 |
|               |                   | Cond. Valid           | 151-199             | 809.775-810.975               | 854.775-855.975 |
| 1             | B                 | Cond. Valid           | 200-249             | 811.000-812.225               | 856.000-857.225 |
|               |                   | Valid                 | 250-350             | 812.250-814.750               | 857.250-859.750 |
|               |                   | Cond. Valid           | 351-399             | 814.775-815.975               | 859.775-860.975 |
| 2             | C                 | Cond. Valid           | 400-449             | 816.000-817.225               | 861.000-862.225 |
|               |                   | Valid                 | 450-550             | 817.250-819.750               | 862.250-864.750 |
|               |                   | Cond. Valid           | 551-599             | 819.775-820.975               | 864.775-865.975 |
| 3             | D                 | Cond. Valid           | 600-649             | 821.000-822.225               | 866.000-867.225 |
|               |                   | Valid                 | 650-670             | 822.250-822.750               | 867.250-867.750 |
|               |                   | Not Valid             | 671-719             | 822.775-823.975               | 867.775-868.975 |
| 4             | E                 | Not Valid             | 720-769             | 896.000-897.225               | 935.000-936.225 |
|               |                   | Valid                 | 770-870             | 897.250-899.750               | 936.250-938.750 |
|               |                   | Not Valid             | 871-919             | 899.775-900.975               | 938.775-939.975 |

### 3.1.12 Band Class 11 (400 MHz European PAMR Band)

The Band Class 11 block designators for the CDMA equipment shall be as specified in Table 3.1.12-1. There are twelve band subclasses specified for Band Class 11. Each band subclass corresponds to a specific block designator (see Table 3.1.12-1). Each band subclass includes all the channels designated for that block. CDMA equipments supporting Band Class 11 shall be capable of transmitting in at least one band subclass belonging to Band Class 11. For CDMA equipments capable of transmitting in more than one band subclass belonging to Band Class 11, one band subclass shall be designated as the Primary Band Subclass, which is the band subclass used by the access terminal's home system.

1 The channel spacing, CDMA channel designations, and transmitter center frequencies of  
 2 Band Class 11 shall be as specified in Table 3.1.12-2. Note that certain channel  
 3 assignments are not valid and others are conditionally valid. Access terminals supporting  
 4 Band Class 11 shall support operations on the valid and conditionally valid channel  
 5 numbers of the supported blocks shown in Table 3.1.12-3. Access networks supporting  
 6 Band Class 11 shall support operations on the valid and may support operations on the  
 7 conditionally valid channel numbers of the supported blocks shown in Table  
 8 3.1.12-3. Transmission on conditionally valid channels is permissible if the adjacent  
 9 block is allocated to the same licensee or if other valid authorization has been obtained.

10 For CDMA equipment conforming to [2], or its older versions, the access terminal shall  
 11 transmit the Reverse Traffic Channel on the CDMA Channel designated by CDMACH<sub>s</sub>, and  
 12 the nominal access terminal transmit carrier frequency shall be 10.0 MHz lower than the  
 13 frequency of the access network transmit signal as measured at the access terminal  
 14 receiver.

15  
 16 **Table 3.1.12-1. Band Class 11 Block Frequency Correspondence and Band Subclasses**

| Block Designator | Band Subclass | Transmit Frequency Band (MHz) |                 |
|------------------|---------------|-------------------------------|-----------------|
|                  |               | Access Terminal               | Access Network  |
| A                | 0             | 452.500–457.475               | 462.500–467.475 |
| B                | 1             | 452.000–456.475               | 462.000–466.475 |
| C                | 2             | 450.000–454.800               | 460.000–464.800 |
| D                | 3             | 411.675–415.850               | 421.675–425.850 |
| E                | 4             | 415.500–419.975               | 425.500–429.975 |
| F                | 5             | Not specified                 | Not specified   |
| G                | 6             | Not specified                 | Not specified   |
| H                | 7             | Not specified                 | Not specified   |
| I                | 8             | 451.325–455.725               | 461.325–465.725 |
| J                | 9             | 455.250–459.975               | 465.250–469.975 |
| K                | 10            | 479.000–483.475               | 489.000–493.475 |
| L                | 11            | 410.000–414.975               | 420.000–424.975 |

**Table 3.1.12-2. CDMA Channel Number to CDMA Frequency  
Assignment Correspondence for Band Class 11**

| <b>Transmitter</b> | <b>CDMA Channel Number</b> | <b>Center Frequency for<br/>CDMA Channel (MHz)</b> |
|--------------------|----------------------------|--|
| Access Terminal    | $1 \leq N \leq 400$        | $0.025 (N - 1) + 450.000$                          |
|                    | $472 \leq N \leq 871$      | $0.025 (N - 472) + 410.000$                        |
|                    | $1039 \leq N \leq 1473$    | Reserved   |
|                    | $1536 \leq N \leq 1715$    | $0.025 (N - 1536) + 479.000$                       |
|                    | $1792 \leq N \leq 2016$    | Reserved   |
| Access Network     | $1 \leq N \leq 400$        | $0.025 (N - 1) + 460.000$                          |
|                    | $472 \leq N \leq 871$      | $0.025 (N - 472) + 420.000$                        |
|                    | $1039 \leq N \leq 1473$    | Reserved   |
|                    | $1536 \leq N \leq 1715$    | $0.025 (N - 1536) + 489.000$                       |
|                    | $1792 \leq N \leq 2016$    | Reserved   |

3

**Table 3.1.12-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 11**

| Block Designator | Valid CDMA Frequency Assignments | CDMA Channel Number | Transmit Frequency Band (MHz) |                 |
|------------------|----------------------------------|---------------------|-------------------------------|-----------------|
|                  |                                  |                     | Access Terminal               | Access Network  |
| A<br>(4.5 MHz)   | Not Valid                        | 121–125             | 453.000–453.100               | 463.000–463.100 |
|                  | Cond. Valid                      | 126–145             | 453.125–453.600               | 463.125–463.600 |
|                  | Valid                            | 146–275             | 453.625–456.850               | 463.625–466.850 |
|                  | Not Valid                        | 276–300             | 456.875–457.475               | 466.875–467.475 |
| A'<br>(0.5 MHz)  | Not Valid                        | 101–120             | 452.500–452.975               | 462.500–462.975 |
| B<br>(4.5 MHz)   | Not Valid                        | 81–105              | 452.000–452.600               | 462.000–462.600 |
|                  | Valid                            | 106–235             | 452.625–455.850               | 462.625–465.850 |
|                  | Not Valid                        | 236–260             | 455.875–456.475               | 465.875–466.475 |
| C<br>(4.8 MHz)   | Not Valid                        | 1–25                | 450.000–450.600               | 460.000–460.600 |
|                  | Valid                            | 26–168              | 450.625–454.175               | 460.625–464.175 |
|                  | Not Valid                        | 169–193             | 454.200–454.800               | 464.200–464.800 |
| D<br>(4.2 MHz)   | Not Valid                        | 539–563             | 411.675–412.275               | 421.675–422.275 |
|                  | Valid                            | 564–681             | 412.300–415.225               | 422.300–425.225 |
|                  | Not Valid                        | 682–706             | 415.250–415.850               | 425.250–425.850 |
| E<br>(4.5 MHz)   | Not Valid                        | 692–716             | 415.500–416.100               | 425.500–426.100 |
|                  | Valid                            | 717–846             | 416.125–419.350               | 426.125–429.350 |
|                  | Not Valid                        | 847–871             | 419.375–419.975               | 429.375–429.975 |
| F                | Not specified                    | Not specified       | Not specified                 | Not specified   |
| G                | Not specified                    | Not specified       | Not specified                 | Not specified   |
| H                | Not specified                    | Not specified       | Not specified                 | Not specified   |
| I<br>(4.425 MHz) | Not Valid                        | 54–78               | 451.325–451.925               | 461.325–461.925 |
|                  | Valid                            | 79–205              | 451.950–455.100               | 461.950–465.100 |
|                  | Not Valid                        | 206–230             | 455.125–455.725               | 465.125–465.725 |
| J<br>(4.75 MHz)  | Not Valid                        | 211–234             | 455.250–455.825               | 465.250–465.825 |
|                  | Valid                            | 235–376             | 455.850–459.375               | 465.850–469.375 |
|                  | Not Valid                        | 377–400             | 459.400–459.975               | 469.400–469.975 |
| K<br>(4.5 MHz)   | Not Valid                        | 1536–1560           | 479.000–479.600               | 489.000–489.600 |
|                  | Valid                            | 1561–1690           | 479.625–482.850               | 489.625–492.850 |
|                  | Not Valid                        | 1691–1715           | 482.875–483.475               | 492.875–493.475 |
| L<br>(4.5 MHz)   | Not Valid                        | 472–504             | 410.000–410.800               | 420.000–420.800 |
|                  | Valid                            | 505–646             | 410.825–414.350               | 420.825–424.350 |
|                  | Not Valid                        | 647–671             | 414.375–414.975               | 424.375–424.975 |

1 3.1.13 Band Class 12 (800 MHz PAMR Band)

2 The Band Class 12 block designators for the CDMA equipment shall be as specified in  
 3 Table 3.1.13-1. There are three band subclasses specified for Band Class 12. Each band  
 4 subclass corresponds to a specific block designator (see Table 3.1.13-1). Each band  
 5 subclass includes all the channels designated for that block. CDMA equipments supporting  
 6 Band Class 12 shall be capable of transmitting in at least one band subclass belonging to  
 7 Band Class 12. For CDMA equipments capable of transmitting in more than one band  
 8 subclass belonging to Band Class 12, one band subclass shall be designated as the  
 9 Primary Band Subclass, which is the band subclass used by the access terminal's home  
 10 system.

11 The channel spacing, CDMA channel designations, and transmitter center frequencies of  
 12 Band Class 12 shall be as specified in Table 3.1.13-2. Note that certain channel  
 13 assignments are not valid and others are conditionally valid. Access terminals supporting  
 14 Band Class 12 shall support operations on the valid and conditionally valid channel  
 15 numbers of the supported blocks shown in Table 3.1.13-3. Access networks supporting  
 16 Band Class 12 shall support operations on the valid and may support operations on the  
 17 conditionally valid channel numbers of the supported blocks shown in Table  
 18 3.1.13-3. Transmission on conditionally valid channels is permissible if the adjacent  
 19 block is allocated to the same licensee or if other valid authorization has been obtained.

20 For CDMA equipment conforming to [2], or its older versions, the access terminal shall  
 21 transmit the Reverse Traffic Channel on the CDMA Channel designated by CDMACH<sub>s</sub>, and  
 22 the nominal access terminal transmit carrier frequency shall be 45.0 MHz lower than the  
 23 frequency of the access network transmit signal as measured at the access terminal  
 24 receiver.

25  
 26 **Table 3.1.13-1. Band Class 12 Block Frequency Correspondence and Band Subclasses**

| Block Designator | Band Subclass | Transmit Frequency Band (MHz) |                   |
|------------------|---------------|-------------------------------|-------------------|
|                  |               | Access Terminal               | Access Network    |
| A                | 0             | 870.0125–875.9875             | 915.0125–920.9875 |
| B                | 1             | 871.5125–874.4875             | 916.5125–919.4875 |
| C                | 2             | 870.0125–875.9875             | 915.0125–920.9875 |

27  
 28 **Table 3.1.13-2. CDMA Channel Number to CDMA Frequency**  
 29 **Assignment Correspondence for Band Class 12**

| Transmitter     | CDMA Channel Number | Center Frequency for CDMA Channel (MHz) |
|-----------------|---------------------|---|
| Access Terminal | $0 \leq N \leq 239$ | $870.0125 + 0.025 N$                    |
| Access Network  | $0 \leq N \leq 239$ | $915.0125 + 0.025 N$                    |

30

**Table 3.1.13-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 12**

| Block Designator | Valid CDMA Frequency Assignment | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|------------------|---------------------------------|---------------------|-------------------------------|-------------------|
|                  |                                 |                     | Access Terminal               | Access Network    |
| A<br>(6MHz)      | Not Valid                       | 0–64                | 870.0125–871.6125             | 915.0125–916.6125 |
|                  | Valid                           | 65–214              | 871.6375–875.3625             | 916.6375–920.3625 |
|                  | Not Valid                       | 215–239             | 875.3875–875.9875             | 920.3875–920.9875 |
| B<br>(3 MHz)     | Not Valid                       | 60–93               | 871.5125–872.3375             | 916.5125–917.3375 |
|                  | Valid                           | 94–144              | 872.3625–873.6125             | 917.3625–918.6125 |
|                  | Not Valid                       | 145–179             | 873.6375–874.4875             | 918.6375–919.4875 |
| C<br>(6MHz)      | Not Valid                       | 0–24                | 870.0125–870.6125             | 915.0125–915.6125 |
|                  | Cond. Valid                     | 25–104              | 870.6375–872.6125             | 915.6375–917.6125 |
|                  | Valid                           | 105–206             | 872.6375–875.1625             | 917.6375–920.1625 |
|                  | Cond. Valid                     | 207–214             | 875.1875–875.3625             | 920.1875–920.3625 |
|                  | Not Valid                       | 215–239             | 875.3875–875.9875             | 920.3875–920.9875 |

#### 3.1.14 Band Class 13 (2.5 GHz IMT-2000 Extension Band)

The Band Class 13 block designators for the access terminal and access network shall be as specified in Table 3.1.14-1.

Access terminals supporting Band Class 13 shall be capable of transmitting in Band Class 13.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 13 shall be as specified in Table 3.1.14-2. Access terminals supporting Band Class 13 shall support transmission on the valid and conditionally valid channel numbers shown in

Table 3.1.14-3. Note that certain channel assignments are not valid and others are conditionally valid. Transmission on conditionally valid channels is permissible if the adjacent block is allocated to the same licensee or if other valid authorization has been obtained.

For CDMA equipment conforming to [2], or its older versions, the nominal access terminal transmit carrier frequency shall be 120.0 MHz lower than the frequency of the access network transmit signal as measured at the access terminal receiver.



1

**Table 3.1.14-1. Band Class 13 Block Frequency Correspondence**

| <b>Block Designator</b> | <b>Transmit Frequency Band (MHz)</b> |                       |
|-------------------------|--------------------------------------|-----------------------|
|                         | <b>Access Terminal</b>               | <b>Access Network</b> |
| A                       | 2500–2505                            | 2620–2625             |
| B                       | 2505–2510                            | 2625–2630             |
| C                       | 2510–2515                            | 2630–2635             |
| D                       | 2515–2520                            | 2635–2640             |
| E                       | 2520–2525                            | 2640–2645             |
| F                       | 2525–2530                            | 2645–2650             |
| G                       | 2530–2535                            | 2650–2655             |
| H                       | 2535–2540                            | 2655–2660             |
| I                       | 2540–2545                            | 2660–2665             |
| J                       | 2545–2550                            | 2665–2670             |
| K                       | 2550–2555                            | 2670–2675             |
| L                       | 2555–2560                            | 2675–2680             |
| M                       | 2560–2565                            | 2680–2685             |
| N                       | 2565–2570                            | 2685–2690             |

2

3

4

**Table 3.1.14-2. CDMA Channel Number to CDMA Frequency Assignment Correspondence for Band Class 13**

| <b>Transmitter</b> | <b>CDMA Channel Number</b> | <b>Center Frequency for CDMA Channel (MHz)</b> |
|--------------------|----------------------------|--|
| Access Terminal    | $0 \leq N \leq 1399$       | $2500.000 + 0.050 N$                           |
| Access Network     | $0 \leq N \leq 1399$       | $2620.000 + 0.050 N$                           |

5

**Table 3.1.14-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 13**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|------------------|-----------------------|---------------------|-------------------------------|-------------------|
|                  |                       |                     | Access Terminal               | Access Network    |
| A<br>(5 MHz)     | Not Valid             | 0–24                | 2500.000–2501.200             | 2620.000–2621.200 |
|                  | Valid                 | 25–75               | 2501.250–2503.750             | 2621.250–2623.750 |
|                  | Cond. Valid           | 76–99               | 2503.800–2504.950             | 2623.800–2624.950 |
| B<br>(5 MHz)     | Cond. Valid           | 100–124             | 2505.000–2506.200             | 2625.000–2626.200 |
|                  | Valid                 | 125–175             | 2506.250–2508.750             | 2626.250–2628.750 |
|                  | Cond. Valid           | 176–199             | 2508.800–2509.950             | 2628.800–2629.950 |
| C<br>(5 MHz)     | Cond. Valid           | 200–224             | 2510.000–2511.200             | 2630.000–2631.200 |
|                  | Valid                 | 225–275             | 2511.250–2513.750             | 2631.250–2633.750 |
|                  | Cond. Valid           | 276–299             | 2513.800–2514.950             | 2633.800–2634.950 |
| D<br>(5 MHz)     | Cond. Valid           | 300–324             | 2515.000–2516.200             | 2635.000–2636.200 |
|                  | Valid                 | 325–375             | 2516.250–2518.750             | 2636.250–2638.750 |
|                  | Cond. Valid           | 376–399             | 2518.800–2519.950             | 2638.800–2639.950 |
| E<br>(5 MHz)     | Cond. Valid           | 400–424             | 2520.000–2521.200             | 2640.000–2641.200 |
|                  | Valid                 | 425–475             | 2521.250–2523.750             | 2641.250–2643.750 |
|                  | Cond. Valid           | 476–499             | 2523.800–2524.950             | 2643.800–2644.950 |
| F<br>(5 MHz)     | Cond. Valid           | 500–524             | 2525.000–2526.200             | 2645.000–2646.200 |
|                  | Valid                 | 525–575             | 2526.250–2528.750             | 2646.250–2648.750 |
|                  | Cond. Valid           | 576–599             | 2528.800–2529.950             | 2648.800–2649.950 |
| G<br>(5 MHz)     | Cond. Valid           | 600–624             | 2530.000–2531.200             | 2650.000–2651.200 |
|                  | Valid                 | 625–675             | 2531.250–2533.750             | 2651.250–2653.750 |
|                  | Cond. Valid           | 676–699             | 2533.800–2534.950             | 2653.800–2654.950 |
| H<br>(5 MHz)     | Cond. Valid           | 700–724             | 2535.000–2536.200             | 2655.000–2656.200 |
|                  | Valid                 | 725–775             | 2536.250–2538.750             | 2656.250–2658.750 |
|                  | Cond. Valid           | 776–799             | 2538.800–2539.950             | 2658.800–2659.950 |
| I<br>(5 MHz)     | Cond. Valid           | 800–824             | 2540.000–2541.200             | 2660.000–2661.200 |
|                  | Valid                 | 825–875             | 2541.250–2543.750             | 2661.250–2663.750 |
|                  | Cond. Valid           | 876–899             | 2543.800–2544.950             | 2663.800–2664.950 |
| J<br>(5 MHz)     | Cond. Valid           | 900–924             | 2545.000–2546.200             | 2665.000–2666.200 |
|                  | Valid                 | 925–975             | 2546.250–2548.750             | 2666.250–2668.750 |
|                  | Cond. Valid           | 976–999             | 2548.800–2549.950             | 2668.800–2669.950 |
| K<br>(5 MHz)     | Cond. Valid           | 1000–1024           | 2550.000–2551.200             | 2670.000–2671.200 |
|                  | Valid                 | 1025–1075           | 2551.250–2553.750             | 2671.250–2673.750 |
|                  | Cond. Valid           | 1076–1099           | 2553.800–2554.950             | 2673.800–2674.950 |
| L<br>(5 MHz)     | Cond. Valid           | 1100–1124           | 2555.000–2556.200             | 2675.000–2676.200 |
|                  | Valid                 | 1125–1175           | 2556.250–2558.750             | 2676.250–2678.750 |
|                  | Cond. Valid           | 1176–1199           | 2558.800–2559.950             | 2678.800–2679.950 |

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|------------------|-----------------------|---------------------|-------------------------------|-------------------|
|                  |                       |                     | Access Terminal               | Access Network    |
| M<br>(5 MHz)     | Cond. Valid           | 1200–1224           | 2560.000–2561.200             | 2680.000–2681.200 |
|                  | Valid                 | 1225–1275           | 2561.250–2563.750             | 2681.250–2683.750 |
|                  | Cond. Valid           | 1276–1299           | 2563.800–2564.950             | 2683.800–2684.950 |
| N<br>(5 MHz)     | Cond. Valid           | 1300–1324           | 2565.000–2566.200             | 2685.000–2686.200 |
|                  | Valid                 | 1325–1375           | 2566.250–2568.750             | 2686.250–2688.750 |
|                  | Not Valid             | 1376–1399           | 2568.800–2569.950             | 2688.800–2689.950 |

1

## 2 3.1.15 Band Class 14 (US PCS 1.9GHz Band)

3 The Band Class 14 block designators for the access terminal and access network shall be  
4 as specified in Table 3.1.15-1.

5 Access terminals supporting Band Class 14 shall be capable of transmitting in Band Class  
6 14.

7 The channel spacing, CDMA channel designations, and transmitter center frequencies of  
8 Band Class 14 shall be as specified in Table 3.1.15-2. Access terminals supporting Band  
9 Class 14 shall support transmission on the valid and conditionally valid channel numbers  
10 shown in Table 3.1.15-3. Note that certain channel assignments are not valid and others  
11 are conditionally valid. Transmission on conditionally valid channels is permissible if the  
12 adjacent block is allocated to the same licensee or if other valid authorization has been  
13 obtained.

14 For CDMA equipment conforming to [2], or its older versions, the nominal access terminal  
15 transmit carrier frequency shall be 80.0 MHz lower than the frequency of the access  
16 network transmit signal as measured at the access terminal receiver.

17

18 **Table 3.1.15-1. Band Class 14 Block Frequency Correspondence**

| Block Designator | Transmit Frequency Band (MHz) |                |
|------------------|-------------------------------|----------------|
|                  | Access Terminal               | Access Network |
| A                | 1850–1865                     | 1930–1945      |
| D                | 1865–1870                     | 1945–1950      |
| B                | 1870–1885                     | 1950–1965      |
| E                | 1885–1890                     | 1965–1970      |
| F                | 1890–1895                     | 1970–1975      |
| C                | 1895–1910                     | 1975–1990      |
| G                | 1910–1915                     | 1990–1995      |

19

**Table 3.1.15-2. CDMA Channel Number to CDMA Frequency  
Assignment Correspondence for Band Class 14**

| <b>Transmitter</b> | <b>CDMA Channel Number</b> | <b>Center Frequency for CDMA Channel (MHz)</b> |
|--------------------|----------------------------|--|
| Access Terminal    | $0 \leq N \leq 1299$       | $1850.000 + 0.050 N$                           |
| Access Network     | $0 \leq N \leq 1299$       | $1930.000 + 0.050 N$                           |

**Table 3.1.15-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 14**

| <b>Block Designator</b> | <b>CDMA Channel Validity</b> | <b>CDMA Channel Number</b> | <b>Transmit Frequency Band (MHz)</b> |                       |
|-------------------------|------------------------------|----------------------------|--------------------------------------|-----------------------|
|                         |                              |                            | <b>Access Terminal</b>               | <b>Access Network</b> |
| A<br>(15 MHz)           | Not Valid                    | 0–24                       | 1850.000–1851.200                    | 1930.000–1931.200     |
|                         | Valid                        | 25–275                     | 1851.250–1863.750                    | 1931.250–1943.750     |
|                         | Cond. Valid                  | 276–299                    | 1863.800–1864.950                    | 1943.800–1944.950     |
| D<br>(5 MHz)            | Cond. Valid                  | 300–324                    | 1865.000–1866.200                    | 1945.000–1946.200     |
|                         | Valid                        | 325–375                    | 1866.250–1868.750                    | 1946.250–1948.750     |
|                         | Cond. Valid                  | 376–399                    | 1868.800–1869.950                    | 1948.800–1949.950     |
| B<br>(15 MHz)           | Cond. Valid                  | 400–424                    | 1870.000–1871.200                    | 1950.000–1951.200     |
|                         | Valid                        | 425–675                    | 1871.250–1883.750                    | 1951.250–1963.750     |
|                         | Cond. Valid                  | 676–699                    | 1883.800–1884.950                    | 1963.800–1964.950     |
| E<br>(5 MHz)            | Cond. Valid                  | 700–724                    | 1885.000–1886.200                    | 1965.000–1966.200     |
|                         | Valid                        | 725–775                    | 1886.250–1888.750                    | 1966.250–1968.750     |
|                         | Cond. Valid                  | 776–799                    | 1888.800–1889.950                    | 1968.800–1969.950     |
| F<br>(5 MHz)            | Cond. Valid                  | 800–824                    | 1890.000–1891.200                    | 1970.000–1971.200     |
|                         | Valid                        | 825–875                    | 1891.250–1893.750                    | 1971.250–1973.750     |
|                         | Cond. Valid                  | 876–899                    | 1893.800–1894.950                    | 1973.800–1974.950     |
| C<br>(15 MHz)           | Cond. Valid                  | 900–924                    | 1895.000–1896.200                    | 1975.000–1976.200     |
|                         | Valid                        | 925–1175                   | 1896.250–1908.750                    | 1976.250–1988.750     |
|                         | Cond. Valid                  | 1176–1199                  | 1908.800–1909.950                    | 1988.800–1989.950     |
| G<br>(5 MHz)            | Cond. Valid                  | 1200–1224                  | 1910.000–1911.200                    | 1990.000–1991.200     |
|                         | Valid                        | 1225–1275                  | 1911.250–1913.750                    | 1991.250–1993.750     |
|                         | Not Valid                    | 1276–1299                  | 1913.800–1914.950                    | 1993.800–1994.950     |

### 3.1.16 Band Class 15 (AWS Band)

The Band Class 15 block designators for the access terminal and access network shall be as specified in Table 3.1.16-1.

Access terminals supporting Band Class 15 shall be capable of transmitting in Band Class 15.

1 The channel spacing, CDMA channel designations, and transmitter center frequencies of  
 2 Band Class 15 shall be as specified in Table 3.1.16-2. Access terminals supporting Band  
 3 Class 15 shall support transmission on the valid and conditionally valid channel numbers  
 4 shown in

5 Table 3.1.16-3. Note that certain channel assignments are not valid and others are  
 6 conditionally valid. Transmission on conditionally valid channels is permissible if the  
 7 adjacent block is allocated to the same licensee or if other valid authorization has been  
 8 obtained.

9 For CDMA equipment conforming to [2], or its older versions, the nominal access terminal  
 10 transmit carrier frequency shall be 400.0 MHz lower than the frequency of the access  
 11 network transmit signal as measured at the access terminal receiver.

12

13 **Table 3.1.16-1. Band Class 15 Block Frequency Correspondence**

| Block Designator | Transmit Frequency Band (MHz) |                |
|------------------|-------------------------------|----------------|
|                  | Access Terminal               | Access Network |
| A                | 1710–1720                     | 2110–2120      |
| B                | 1720–1730                     | 2120–2130      |
| C                | 1730–1735                     | 2130–2135      |
| D                | 1735–1740                     | 2135–2140      |
| E                | 1740–1745                     | 2140–2145      |
| F                | 1745–1755                     | 2145–2155      |

14

15 **Table 3.1.16-2. CDMA Channel Number to CDMA Frequency**  
 16 **Assignment Correspondence for Band Class 15**

| Transmitter    | CDMA Channel Number | Center Frequency for CDMA Channel (MHz) |
|----------------|---------------------|---|
| Mobile Station | $0 \leq N \leq 899$ | $1710.000 + 0.050 N$                    |
| Base Station   | $0 \leq N \leq 899$ | $2110.000 + 0.050 N$                    |

17

**Table 3.1.16-3. CDMA Channel Numbers and Corresponding Frequencies  
for Band Class 15**

| Block Designator | CDMA Channel Validity | CDMA Channel Number | Transmit Frequency Band (MHz) |                   |
|------------------|-----------------------|---------------------|-------------------------------|-------------------|
|                  |                       |                     | Access Terminal               | Access Network    |
| A<br>(10 MHz)    | Not Valid             | 0–24                | 1710.000–1711.200             | 2110.000–2111.200 |
|                  | Valid                 | 25–175              | 1711.250–1718.750             | 2111.250–2118.750 |
|                  | Cond. Valid           | 176–199             | 1718.800–1719.950             | 2118.800–2119.950 |
| B<br>(10 MHz)    | Cond. Valid           | 200–224             | 1720.000–1721.200             | 2120.000–2121.200 |
|                  | Valid                 | 225–375             | 1721.250–1728.750             | 2121.250–2128.750 |
|                  | Cond. Valid           | 376–399             | 1728.800–1729.950             | 2128.800–2129.950 |
| C<br>(5 MHz)     | Cond. Valid           | 400–424             | 1730.000–1731.200             | 2130.000–2131.200 |
|                  | Valid                 | 425–475             | 1731.250–1733.750             | 2131.250–2133.750 |
|                  | Cond. Valid           | 476–499             | 1733.800–1734.950             | 2133.800–2134.950 |
| D<br>(5 MHz)     | Cond. Valid           | 500–524             | 1735.000–1736.200             | 2135.000–2136.200 |
|                  | Valid                 | 525–575             | 1736.250–1738.750             | 2136.250–2138.750 |
|                  | Cond. Valid           | 576–599             | 1738.800–1739.950             | 2138.800–2139.950 |
| E<br>(5 MHz)     | Cond. Valid           | 600–624             | 1740.000–1741.200             | 2140.000–2141.200 |
|                  | Valid                 | 625–675             | 1741.250–1743.750             | 2141.250–2143.750 |
|                  | Cond. Valid           | 676–699             | 1743.800–1744.950             | 2143.800–2144.950 |
| F<br>(10 MHz)    | Cond. Valid           | 700–724             | 1745.000–1746.200             | 2145.000–2146.200 |
|                  | Valid                 | 725–875             | 1746.250–1753.750             | 2146.250–2153.750 |
|                  | Not Valid             | 876–899             | 1753.800–1754.950             | 2153.800–2154.950 |

### 3.1.17 Band Class 16 (US 2.5GHz Band)

The Band Class 16 block designators for the access terminal and access network shall be as specified in Table 3.1.17-1.

Access terminals supporting Band Class 16 shall be capable of transmitting in Band Class 16.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 16 shall be as specified in Table 3.1.17-2. Access terminals supporting Band Class 16 shall support transmission on the valid and conditionally valid channel numbers shown in Table 3.1.17-3. Note that certain channel assignments are not valid and others are conditionally valid. Transmission on conditionally valid channels is permissible if the adjacent block is allocated to the same licensee or if other valid authorization has been obtained.

For CDMA equipment conforming to [2], or its older versions, the nominal access terminal transmit carrier frequency shall be 122.0 MHz lower than the frequency of the access network transmit signal as measured at the access terminal receiver.

1 **Table 3.1.17-1. Band Class 16 Block Frequency Correspondence**

| Block Designator | Transmit Frequency Band (MHz) |                |
|------------------|-------------------------------|----------------|
|                  | Access Terminal               | Access Network |
| A                | 2502–2518.5                   | 2624–2640.5    |
| B                | 2518.5–2535                   | 2640.5–2657    |
| C                | 2535–2551.5                   | 2657–2673.5    |
| D                | 2551.5–2568                   | 2673.5–2690    |

2  
3 **Table 3.1.17-2. CDMA Channel Number to CDMA Frequency**  
4 **Assignment Correspondence for Band Class 16**

| Transmitter     | CDMA Channel Number    | Center Frequency for CDMA Channel (MHz) |
|-----------------|------------------------|---|
| Access Terminal | $140 \leq M \leq 1459$ | $2495.000 + 0.050 M$                    |
| Access Network  | $140 \leq N \leq 1459$ | $2617.000 + 0.050 N$                    |

5  
6 **Table 3.1.17-3. CDMA Channel Numbers and Corresponding Frequencies**  
7 **for Band Class 16**

| Block Designator | CDMA Channel Validity | Access Terminal CDMA Channel Number (M) | Access Terminal Transmit Frequency Band (MHz) | Access Network CDMA Channel Number (N) | Access Network Transmit Frequency Band (MHz) |
|------------------|-----------------------|---|---|--|--|
| A<br>(16.5 MHz)  | Not Valid             | 140–164                                 | 2502.000–2503.200                             | 140–164                                | 2624.000–2625.200                            |
|                  | Valid                 | 165–445                                 | 2503.250–2517.250                             | 165–445                                | 2625.250–2639.250                            |
|                  | Cond. Valid           | 446–459                                 | 2517.300–2518.450                             | 446–459                                | 2639.300–2640.450                            |
| B<br>(16.5 MHz)  | Cond. Valid           | 470–494                                 | 2518.500–2519.700                             | 470–494                                | 2640.500–2641.700                            |
|                  | Valid                 | 495–775                                 | 2519.750–2533.750                             | 495–775                                | 2641.750–2655.750                            |
|                  | Cond. Valid           | 776–799                                 | 2533.800–2534.950                             | 776–799                                | 2655.800–2656.950                            |
| C<br>(16.5 MHz)  | Cond. Valid           | 800–824                                 | 2535.000–2536.200                             | 800–824                                | 2657.000–2658.200                            |
|                  | Valid                 | 825–1105                                | 2536.250–2550.250                             | 825–1105                               | 2658.250–2672.250                            |
|                  | Cond. Valid           | 1106–1129                               | 2550.300–2551.450                             | 1106–1129                              | 2672.300–2673.450                            |
| D<br>(16.5 MHz)  | Cond. Valid           | 1130–2414                               | 2551.500–2552.700                             | 1130–2414                              | 2673.500–2674.700                            |
|                  | Valid                 | 2415–2695                               | 2552.750–2566.750                             | 2415–2695                              | 2674.750–2688.750                            |
|                  | Not Valid             | 2696–2719                               | 2566.800–2567.950                             | 2696–2719                              | 2688.800–2689.950                            |

## 3.1.18 Band Class 17 (US 2.5GHz Forward Link Only Band)

The Band Class 17 block designators for the access network shall be as specified in Table 3.1.18-1.

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 17 shall be as specified in Table 3.1.18-2. The valid and conditionally valid channel numbers are shown in Table 3.1.18-3. Note that certain channel assignments are not valid and others are conditionally valid. Transmission on conditionally valid channels is permissible if the adjacent block is allocated to the same licensee or if other valid authorization has been obtained.

CDMA equipment conforming to [2] or older shall not transmit on Band Class 17.

**Table 3.1.18-1. Band Class 17 Block Frequency Correspondence**

| <b>Block Designator</b> | <b>Access Network Transmit Frequency Band (MHz)</b> |
|-------------------------|---|
| A                       | 2624-2640.5   |
| B                       | 2640.5-2657   |
| C                       | 2657-2673.5   |
| D                       | 2673.5-2690   |

**Table 3.1.18-2. CDMA Channel Number to CDMA Frequency Assignment Correspondence for Band Class 17**

| <b>Transmitter</b> | <b>CDMA Channel Number</b> | <b>Center Frequency for CDMA Channel (MHz)</b> |
|--------------------|----------------------------|--|
| Access Network     | $140 \leq N \leq 1459$     | $2617.000 + 0.050 N$                           |

**Table 3.1.18-3. CDMA Channel Numbers and Corresponding Frequencies for Band Class 17**

| <b>Block Designator</b> | <b>CDMA Channel Validity</b> | <b>Access Network CDMA Channel Number (N)</b> | <b>Access Network Transmit Frequency Band (MHz)</b> |
|-------------------------|------------------------------|---|---|
| A<br>(16.5 MHz)         | Not Valid                    | 140-1644                                      | 2624.000-2625.200                                   |
|                         | Valid                        | 165-445                                       | 2625.250-2639.250                                   |
|                         | Cond. Valid                  | 446-469                                       | 2639.300-2640.450                                   |
| B<br>(16.5 MHz)         | Cond. Valid                  | 470-494                                       | 2640.500-2641.700                                   |
|                         | Valid                        | 495-775                                       | 2641.750-2655.750                                   |
|                         | Cond. Valid                  | 776-799                                       | 2655.800-2656.950                                   |



| <b>Block Designator</b> | <b>CDMA Channel Validity</b> | <b>Access Network CDMA Channel Number (N)</b> | <b>Access Network Transmit Frequency Band (MHz)</b> |
|-------------------------|------------------------------|---|---|
| C<br>(16.5 MHz)         | Cond. Valid                  | 800–824                                       | 2657.000-2658.200                                   |
|                         | Valid                        | 825–1105                                      | 2658.250-2672.250                                   |
|                         | Cond. Valid                  | 1106–1129                                     | 2672.300-2673.450                                   |
| D<br>(16.5 MHz)         | Cond. Valid                  | 1130–1254                                     | 2673.500-2674.700                                   |
|                         | Valid                        | 1155–1435                                     | 2674.750-2688.750                                   |
|                         | Not Valid                    | 1436–1459                                     | 2688.800-2689.950                                   |

1

## 2 **3.2 Frequency Tolerance**

3 The access terminal shall meet the requirements of the current version of [6]. The access  
 4 network transmit carrier frequency shall be maintained within  $\pm 5 \times 10^{-8}$  of the CDMA  
 5 frequency assignment ( $\pm 0.05$  ppm).

## 6 **3.3 Power Output Characteristics: Controlled Output Power**

7 All power levels are referenced to the access terminal antenna connector unless otherwise  
 8 specified. The access terminal shall provide three independent means of output power  
 9 adjustment: an open loop estimation performed by the access terminal, a closed loop  
 10 correction involving both the access terminal and the access network, and possible code  
 11 channel attribute adjustments for certain channels.

### 12 3.3.1 Estimated Open Loop Output Power for Reverse Link Channels

13 The access terminal shall support a total combined range of initial offset parameters,  
 14 access probe corrections, and closed-loop power control corrections, of at least  $\pm 32$  dB for  
 15 access terminals operating in Band Classes 0, 2, 3, 5, 7, 9, 10, 11, and 12 and  $\pm 40$  dB for  
 16 access terminals operating in Band Classes 1, 4, 6, 8, 13, 14, 15, and 16.

17 While transmitting the Access Probe,  $\text{OpenLoopAdjust} + \text{ProbeInitialAdjust}$  (see [2]) is from  
 18  $-81$  to  $-66$  dB for Band Classes 0, 2, 3, 5, 7, 9, 10, 11, and 12 and from  $-100$  to  $-69$  dB for  
 19 Band Classes 1, 4, 6, 8, 13, 14, 15, and 16.