

3GPP2 C.S0057-A

Version 1.0

Date: December 22, 2005



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

Band Class Specification for cdma2000 Spread Spectrum Systems

Revision A

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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> ” [1].....	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).....	2-25
21	2.1.8 Band Class 7 (700 MHz Band)	2-27
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	2.2 Frequency Tolerance	2-62
31	2.3 Power Output Characteristics: Controlled Output Power	2-62
32	2.3.1 Open Loop Output Power for Reverse Link Channels	2-62

CONTENTS

1 3 REQUIREMENTS FOR THE OPERATION OF THE “CDMA2000 HIGH RATE PACKET DATA
2 AIR INTERFACE” [2] 3-1

3 3.1 Channel Spacing and Designation..... 3-1

4 3.1.1 Band Class 0 (800-MHz Band)..... 3-1

5 3.1.2 Band Class 1 (1900-MHz Band)..... 3-4

6 3.1.3 Band Class 2 (TACS Band) 3-5

7 3.1.4 Band Class 3 (JTACS Band) 3-7

8 3.1.5 Band Class 4 (Korean PCS Band) 3-9

9 3.1.6 Band Class 5 (450-MHz Band)..... 3-10

10 3.1.7 Band Class 6 (2-GHz Band) 3-14

11 3.1.8 Band Class 7 (700-MHz Band)..... 3-14

12 3.1.9 Band Class 8 (1800-MHz Band)..... 3-16

13 3.1.10 Band Class 9 (900-MHz Band)..... 3-17

14 3.1.11 Band Class 10 (Secondary 800 MHz Band)..... 3-18

15 3.1.12 Band Class 11 (400 MHz European PAMR Band)..... 3-19

16 3.1.13 Band Class 12 (800 MHz PAMR Band)..... 3-22

17 3.1.14 Band Class 13 (2.5 GHz IMT-2000 Extension Band)..... 3-24

18 3.1.15 Band Class 14 (US PCS 1.9GHz Band) 3-27

19 3.1.16 Band Class 15 (AWS Band) 3-29

20 3.2 Frequency Tolerance 3-30

21 3.3 Power Output Characteristics: Controlled Output Power 3-30

22 3.3.1 Estimated Open Loop Output Power for Reverse Link Channels 3-30

TABLES

1		
2	Table 1.4-1: System Selection Code	1-5
3	Table 1.5-1: Band Class List.....	1-8
4	Table 2.1.1-1. Band Class 0 System Frequency Correspondence	2-2
5	Table 2.1.1-2. CDMA Channel Number to CDMA Frequency Assignment	
6	Correspondence for Band Class 0	2-2
7	Table 2.1.1-3. CDMA Channel Numbers and Corresponding Frequencies for Band	
8	Class 0 and Spreading Rate 1	2-3
9	Table 2.1.1-4. CDMA Channel Numbers and Corresponding Frequencies for Band	
10	Class 0 and Spreading Rate 3	2-4
11	Table 2.1.1-5. CDMA Preferred Set of Frequency Assignments for Band Class 0.....	2-5
12	Table 2.1.1-6. Sync Channel Preferred Set of Frequency Assignments for Spreading	
13	Rate 3 for Band Class 0	2-5
14	Table 2.1.2-1. Band Class 1 Block Frequency Correspondence	2-7
15	Table 2.1.2-2. CDMA Channel Number to CDMA Frequency Assignment	
16	Correspondence for Band Class 1	2-7
17	Table 2.1.2-3. CDMA Channel Numbers and Corresponding Frequencies for Band	
18	Class 1 and Spreading Rate 1	2-8
19	Table 2.1.2-4. CDMA Channel Numbers and Corresponding Frequencies for Band	
20	Class 1 and Spreading Rate 3	2-9
21	Table 2.1.2-5. CDMA Preferred Set of Frequency Assignments for Band Class 1.....	2-10
22	Table 2.1.2-6. Sync Channel Preferred Set of Frequency Assignments for Spreading	
23	Rate 3 for Band Class 1	2-10
24	Table 2.1.3-1. Band Class 2 Block Frequency Correspondence	2-11
25	Table 2.1.3-2. Band Class 2 Band Subclasses.....	2-12
26	Table 2.1.3-3. CDMA Channel Number to CDMA Frequency Assignment	
27	Correspondence for Band Class 2	2-12
28	Table 2.1.3-4. CDMA Channel Numbers and Corresponding Frequencies for Band	
29	Class 2 and Spreading Rate 1	2-13
30	Table 2.1.3-5. CDMA Channel Numbers and Corresponding Frequencies for Band	
31	Class 2 and Spreading Rate 3	2-14
32	Table 2.1.3-6. CDMA Preferred Set of Frequency Assignments for Band Class 2.....	2-14
33	Table 2.1.4-1. Band Class 3 System Frequency Correspondence	2-15
34	Table 2.1.4-2. CDMA Channel Number to CDMA Frequency Assignment	
35	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.....	2-25
24	Table 2.1.7-1. CDMA Channel Number to CDMA Frequency Assignment	
25	Correspondence for Band Class 6.....	2-26
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	2-27
31	Table 2.1.8-1. Band Class 7 Block Frequency Correspondence	2-28
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.....	2-61
6	Table 2.1.16-6. Sync Channel Preferred Frequency Assignments for Spreading Rate	
7	3 for Band Class 15	2-62
8	Table 2.3.1-1. Open Loop Power Offsets	2-62
9	Table 2.3.1-2. Access Probe Open Loop Power on the Reverse Access Channel.....	2-63
10	Table 2.3.1-3. Open Loop Output Power	2-64
11	Table 3.1.1-1. Band Class 0 System Frequency Correspondence	3-2
12	Table 3.1.1-2. CDMA Channel Number to CDMA Frequency Assignment	
13	Correspondence for Band Class 0	3-2
14	Table 3.1.1-3. CDMA Channel Numbers and Corresponding Frequencies for Band	
15	Class 0	3-3
16	Table 3.1.2-1. Band Class 1 Block Frequency Correspondence	3-4
17	Table 3.1.2-2. CDMA Channel Number to CDMA Frequency Assignment	
18	Correspondence for Band Class 1	3-4
19	Table 3.1.2-3. CDMA Channel Numbers and Corresponding Frequencies for Band	
20	Class 1	3-5
21	Table 3.1.3-1. Band Class 2 Block Frequency Correspondence	3-6
22	Table 3.1.3-2. Band Class 2 Band Subclasses	3-6
23	Table 3.1.3-3. CDMA Channel Number to CDMA Frequency Assignment	
24	Correspondence for Band Class 2	3-6
25	Table 3.1.3-4. CDMA Channel Numbers and Corresponding Frequencies for Band	
26	Class 2	3-7
27	Table 3.1.4-1. Band Class 3 System Frequency Correspondence	3-8
28	Table 3.1.4-2. CDMA Channel Number to CDMA Frequency Assignment	
29	Correspondence for Band Class 3	3-8
30	Table 3.1.4-3. CDMA Channel Numbers and Corresponding Frequencies for Band	
31	Class 3	3-9
32	Table 3.1.5-1. Band Class 4 Block Frequency Correspondence	3-10
33	Table 3.1.5-2. CDMA Channel Number to CDMA Frequency Assignment	
34	Correspondence for Band Class 4	3-10
35	Table 3.1.5-3. CDMA Channel Numbers and Corresponding Frequencies for Band	
36	Class 4	3-10

TABLES

1	Table 3.1.6-1. Band Class 5 Block Frequency Correspondence and Band Subclasses..	3-11
2	Table 3.1.6-2. CDMA Channel Number to CDMA Frequency Assignment	
3	Correspondence for Band Class 5.....	3-12
4	Table 3.1.6-3. CDMA Channel Numbers and Corresponding Frequencies for Band	
5	Class 5.....	3-13
6	Table 3.1.7-1. CDMA Channel Number to CDMA Frequency Assignment	
7	Correspondence for Band Class 6.....	3-14
8	Table 3.1.7-2. CDMA Channel Numbers and Corresponding Frequencies for Band	
9	Class 6.....	3-14
10	Table 3.1.8-1. Band Class 7 Block Frequency Correspondence	3-15
11	Table 3.1.8-2. CDMA Channel Number to CDMA Frequency Assignment	
12	Correspondence for Band Class 7.....	3-15
13	Table 3.1.8-3. CDMA Channel Numbers and Corresponding Frequencies for Band	
14	Class 7.....	3-16
15	Table 3.1.9-1. CDMA Channel Number to CDMA Frequency Assignment	
16	Correspondence for Band Class 8.....	3-16
17	Table 3.1.9-2. CDMA Channel Numbers and Corresponding Frequencies for Band	
18	Class 8.....	3-17
19	Table 3.1.10-1. CDMA Channel Number to CDMA Frequency Assignment	
20	Correspondence for Band Class 9.....	3-17
21	Table 3.1.10-2. CDMA Channel Numbers and Corresponding Frequencies for Band	
22	Class 9.....	3-18
23	Table 3.1.11-1. Band Class 10 System Frequency Correspondence.....	3-18
24	Table 3.1.11-2. CDMA Channel Number to CDMA Frequency Assignment	
25	Correspondence for Band Class 10.....	3-19
26	Table 3.1.11-3. CDMA Channel Numbers and Corresponding Frequencies for Band	
27	Class 10.....	3-19
28	Table 3.1.12-1. Band Class 11 Block Frequency Correspondence and Band	
29	Subclasses	3-20
30	Table 3.1.12-2. CDMA Channel Number to CDMA Frequency Assignment	
31	Correspondence for Band Class 11.....	3-21
32	Table 3.1.12-3. CDMA Channel Numbers and Corresponding Frequencies for Band	
33	Class 11.....	3-22
34	Table 3.1.13-1. Band Class 12 Block Frequency Correspondence and Band	
35	Subclasses	3-23
36	Table 3.1.13-2. CDMA Channel Number to CDMA Frequency Assignment	
37	Correspondence for Band Class 12.....	3-23

TABLES

1 Table 3.1.13-3. CDMA Channel Numbers and Corresponding Frequencies for Band
 2 Class 123-24

3 Table 3.1.14-1. Band Class 13 Block Frequency Correspondence.....3-25

4 Table 3.1.14-2. CDMA Channel Number to CDMA Frequency Assignment
 5 Correspondence for Band Class 13.....3-25

6 Table 3.1.14-3. CDMA Channel Numbers and Corresponding Frequencies for Band
 7 Class 133-26

8 Table 3.1.15-1. Band Class 14 Block Frequency Correspondence.....3-27

9 Table 3.1.15-2. CDMA Channel Number to CDMA Frequency Assignment
 10 Correspondence for Band Class 14.....3-28

11 Table 3.1.15-3. CDMA Channel Numbers and Corresponding Frequencies for Band
 12 Class 143-28

13 Table 3.1.16-1. Band Class 15 Block Frequency Correspondence.....3-29

14 Table 3.1.16-2. CDMA Channel Number to CDMA Frequency Assignment
 15 Correspondence for Band Class 15.....3-29

16 Table 3.1.16-3. CDMA Channel Numbers and Corresponding Frequencies for Band
 17 Class 153-30

18

TABLES

- 1 No text.

FOREWORD**(This foreword is not part of this Standard)**1
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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^{®1}). 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.

Sixteen 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.

¹ cdma2000[®] 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[®] 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, *Physical Layer Standard for cdma2000 Spread Spectrum Systems*, April 2004.
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, *Upper Layer (Layer 3) Signaling Standard for cdma2000 Spread Spectrum Systems*, April 2004.

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_s** – 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_s** – CDMA Channel number. The CDMA Channel number currently used by the
10 mobile station.

11 **EACH_INIT_PWR_s** – Initial power offset for the Enhanced Access Channel.

12 **EACH_PWR_STEP_s** – Power increment for successive Enhanced Access probes on the
13 Enhanced Access Channel, in units of 1.0 dB.

14 **INIT_PWR_s** – Initial power offset for Access Channel probes.

15 **NOM_PWR_s** – 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_s** – Extended nominal transmit power offset. A correction factor to be used
18 by mobile stations in the open loop power estimate.

19 **PWR_STEP_s** – Power increment for successive Access probes on the Access Channel, in
20 units of 1.0 dB.

21 **RCCCH_INIT_PWR_s** – Initial power offset for the Reverse Common Control Channel.

22 **RCCCH_NOM_PWR_s** – 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_s** – 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_s** – 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.

Table 1.4-1: System Selection Code

Selected System	Band Class Value (Binary)	Code
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
Band Class 5, H-Band	00101	22
Band Class 6 Band	00110	23
Band Class 7, A-Band	00111	24

Selected System	Band Class Value (Binary)	Code
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
Band Class 13, J-Band	01101	52
Band Class 13, K-Band	01101	53
Band Class 13, L-Band	01101	54

Selected System	Band Class Value (Binary)	Code
Band Class 13, M-Band	01101	55
Band Class 13, N-Band	01101	56
Band Class 14, A-Band	01110	02
Band Class 14, B-Band	01110	03
Band Class 14, C-Band	01110	04
Band Class 14, D-Band	01110	05
Band Class 14, E-Band	01110	06
Band Class 14, F-Band	01110	07
Band Class 14, G-Band	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
Reserved	10000-11111	64 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

Subfield (see [9])	Subfield Description
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

2

1 **2 REQUIREMENTS FOR THE OPERATION OF THE “PHYSICAL LAYER STANDARD FOR**
 2 **CDMA2000 SPREAD SPECTRUM SYSTEMS” [1]**

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

7 **2.1 Channel Spacing and Designation**

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

11 **2.1.1 Band Class 0 (800 MHz Band)**

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

17 The channel spacing, CDMA channel designations, and transmitter center frequencies of
 18 Band Class 0 shall be as specified in Table 2.1.1-2. CDMA equipments supporting Band
 19 Class 0 and Spreading Rate 1 shall support transmission on the valid channel numbers
 20 shown in Table 2.1.1-3.² CDMA equipments supporting Band Class 0 and Spreading Rate
 21 3 shall support transmission on the valid channel numbers shown in Table 2.1.1-4.³

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

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

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 $CDMACH_s - 41$ 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 $CDMACH_s + 41$ if $1XRL_FREQ_OFFSET_s$ equals '10'.

² 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.

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

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**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'' (1 MHz)	Not Valid	991-1023	824.040-825.000	869.040-870.000
	A (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 (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' (1.5 MHz)	Not Valid	667-716	845.010-846.480	890.010-891.480	
B' (2.5 MHz)	Not Valid	717-799	846.510-848.970	891.510-893.970	
1	A'' (1 MHz)	Not Valid	991-1023	824.040-825.000	869.040-870.000
	A (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 (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' (1.5 MHz)	Not Valid	667-716	845.010-846.480	890.010-891.480	
A''' (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 ⁴
	B	1	384 (Primary) and 777 (Secondary)
		3	425 ³ , 466, 507, 548, 589
1	A	1	779 (Primary) and 738 (Secondary)
		3	37, 78, 119, 160, 201, 242, 738 ⁵
	B	1	486 (Primary) and 568 (Secondary)
		3	404, 445, 486, 527, 568 ⁴
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

⁴ 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.

⁵ 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

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

2

3

4

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

Transmitter	CDMA Channel Number	Center Frequency for CDMA Channel (MHz)
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 (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 (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 (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 (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 (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 (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 (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 (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 (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 (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 (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 (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

Block Designator	Spreading Rate	Preferred Set Channel Numbers
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

Block Designator	Preferred Set of Channel Numbers
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

Channels Covered	Band Subclass
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

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

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**

Transmitter	CDMA Channel Number	Center Frequency for CDMA Channel (MHz)
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**

System Designator	CDMA Channel Validity	CDMA Channel Number	Transmit Frequency Band (MHz)	
			Mobile Station	Base Station
A1 (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 (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 (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 (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

System Designator	Spreading Rate	Preferred Set Channel Numbers
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 (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 (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 (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 (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 (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 (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 eleven band subclasses⁶ 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, or K; 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'.

⁶ 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, or K, the nominal mobile station transmit carrier
 6 frequency shall be $10.0 - 1.25 \times (1XRL_FREQ_OFFSET_s - 1)$ MHz lower than the frequency
 7 of the base station transmit signal as measured at the mobile station receiver. If the mobile
 8 station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3 and is
 9 operating in block F, G, or H, the nominal mobile station transmit carrier frequency shall
 10 be $10.0 - 1.24 \times (1XRL_FREQ_OFFSET_s - 1)$ MHz lower than the center frequency of the
 11 center CDMA channel transmitted by the base station as measured at the mobile station
 12 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
 Correspondence and Band Subclasses**

19

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

20

1
2

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

Transmitter	CDMA Channel Number	Center Frequency for CDMA Channel (MHz)
Mobile Station	$1 \leq N \leq 400$	$0.025 (N - 1) + 450.000$
	$539 \leq N \leq 871$	$0.025 (N - 512) + 411.000$
	$1039 \leq N \leq 1473$	$0.020 (N - 1024) + 451.010$
	$1536 \leq N \leq 1715$	$0.025 (N - 1536) + 479.000$
	$1792 \leq N \leq 2016$	$0.020 (N - 1792) + 479.000$
Base Station	$1 \leq N \leq 400$	$0.025 (N - 1) + 460.000$
	$539 \leq N \leq 871$	$0.025 (N - 512) + 421.000$
	$1039 \leq N \leq 1473$	$0.020 (N - 1024) + 461.010$
	$1536 \leq N \leq 1715$	$0.025 (N - 1536) + 489.000$
	$1792 \leq N \leq 2016$	$0.020 (N - 1792) + 489.000$

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 (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' (0.5 MHz)	Not Valid	101–120	452.500–452.975	462.500–462.975
B (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 (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 (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 (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 (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 (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 (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 (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 (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 (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

**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 (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' (0.5 MHz)	Not Valid	101–120	452.500–452.975	462.500–462.975
B (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 (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 (4.2 MHz)	Not Valid	539–706	411.675–415.850	421.675–425.850
E (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 (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 (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 (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 (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
J (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 (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

1 **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

* CDMA frequency assignments that support inter-block roaming

2
3 **Table 2.1.6-6. Sync Channel Preferred Set of Frequency Assignments**
4 **for Spreading Rate 3 for Band Class 5**

Block Designator	Preferred Set Channel Numbers
A	210
B	220
C	147
E	731
F	1841
G	1291
H	1213
I	192
J	255
K	1575

5
6 **2.1.7 Band Class 6 (2 GHz Band)**

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

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

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

7 If the mobile station uses Spreading Rate 1 or Spreading Rate 3 for both Forward and
 8 Reverse Traffic Channel, then it shall transmit the Reverse Traffic Channel on the CDMA
 9 Channel designated by $CDMACH_s$. If the mobile station uses Spreading Rate 3 for the
 10 Forward Traffic Channel and uses Spreading Rate 1 for the Reverse Traffic Channel, then it
 11 shall transmit the Reverse Traffic Channel on the CDMA Channel designated by
 12 $CDMACH_s - 25$ if $1XRL_FREQ_OFFSET_s$ equals '00', on the CDMA Channel designated by
 13 $CDMACH_s$ if $1XRL_FREQ_OFFSET_s$ equals '01', or on the CDMA Channel designated by
 14 $CDMACH_s + 25$ if $1XRL_FREQ_OFFSET_s$ equals '10'.

15 If the mobile station is transmitting and receiving using the same spreading rate, the
 16 nominal mobile station transmit carrier frequency shall be 190.0 MHz lower than the
 17 frequency of the base station transmit signal as measured at the mobile station receiver. If
 18 the mobile station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3,
 19 the nominal mobile station transmit carrier frequency shall be $190.0 - 1.25 \times$
 20 $(1XRL_FREQ_OFFSET_s - 1)$ MHz lower than the center frequency of the center CDMA
 21 channel transmitted by the base station as measured at the mobile station receiver.

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

24
 25 **Table 2.1.7-1. CDMA Channel Number to CDMA Frequency**
 26 **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	$0 \leq N \leq 1199$	$2110.000 + 0.050 N$

Table 2.1.7-2. CDMA Channel Numbers and Corresponding Frequencies 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.

Table 2.1.7-3. CDMA Channel Numbers and Corresponding Frequencies 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

1 numbers shown in Table 2.1.8-4. Note that certain channel assignments are not valid and
 2 others are conditionally valid. Transmission on conditionally valid channels is permissible
 3 if the adjacent block is allocated to the same licensee or if other valid authorization has
 4 been obtained.

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

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

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

16 If the mobile station is transmitting and receiving using the same spreading rate, the
 17 nominal mobile station transmit carrier frequency shall be 30.0 MHz higher than the
 18 frequency of the base station transmit signal as measured at the mobile station receiver. If
 19 the mobile station is transmitting on Spreading Rate 1 and receiving on Spreading Rate 3,
 20 the nominal mobile station transmit carrier frequency shall be $30.0 + 1.25 \times$
 21 $(1XRL_FREQ_OFFSET_s - 1)$ MHz higher than the center frequency of the center CDMA
 22 channel transmitted by the base station as measured at the mobile station receiver.

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

25
 26 **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

Table 2.1.8-2. CDMA Channel Number to CDMA Frequency 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	$0 \leq N \leq 359$	$746.000 + 0.050 N$

Table 2.1.8-3. CDMA Channel Numbers and Corresponding Frequencies 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 (1 MHz)	Not Valid	0–19	776.000–776.950	746.000–746.950
C (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 (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 (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 (1 MHz)	Not Valid	0–19	776.000–776.950	746.000–746.950
C (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 (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 (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**

Transmitter	CDMA Channel Number	Center Frequency for CDMA Channel (MHz)
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_s if 1XRL_FREQ_OFFSET_s equals '01', or on the CDMA Channel designated by
 2 CDMACH_s + 50 if 1XRL_FREQ_OFFSET_s 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

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**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

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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**

Band Subclass	System Designator	Preferred Set of Channel Numbers
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 eight 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_s – 50 if 1XRL_FREQ_OFFSET_s equals ‘00’, on the CDMA Channel designated by
 2 CDMACH_s if 1XRL_FREQ_OFFSET_s equals ‘01’, or on the CDMA Channel designated by
 3 CDMACH_s + 50 if 1XRL_FREQ_OFFSET_s 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_s – 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
 Correspondence and Band Subclasses**

15

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

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

Transmitter	CDMA Channel Number	Center Frequency for CDMA Channel (MHz)
Mobile Station	$1 \leq N \leq 400$	$0.025 (N - 1) + 450.000$
	$539 \leq N \leq 871$	$0.025 (N - 512) + 411.000$
	$1039 \leq N \leq 1473$	Reserved
	$1536 \leq N \leq 1715$	$0.025 (N - 1536) + 479.000$
	$1792 \leq N \leq 2016$	Reserved
Base Station	$1 \leq N \leq 400$	$0.025 (N - 1) + 460.000$
	$539 \leq N \leq 871$	$0.025 (N - 512) + 421.000$
	$1039 \leq N \leq 1473$	Reserved
	$1536 \leq N \leq 1715$	$0.025 (N - 1536) + 489.000$
	$1792 \leq N \leq 2016$	Reserved

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**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 (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' (0.5 MHz)	Not Valid	101–120	452.500–452.975	462.500–462.975
B (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 (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 (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 (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 (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 (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 (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

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

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

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	Not specified
G	Not specified
H	Not specified
I	92, 142, 192*
J	255*, 305, 355
K	1575*, 1625, 1675

* CDMA frequency assignments that support inter-block roaming

2

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

Block Designator	Preferred Set Channel Numbers
A	210
B	220
C	147
E	731
F	Not specified
G	Not specified
H	Not specified
I	192
J	255
K	1575

5

6

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 (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 (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 (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 (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 (3 MHz)	Not Valid	60-179	871.5125-874.4875	916.5125-919.4875
C (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.

A preferred set of CDMA frequency assignments is given in Table 2.1.14-5.

1 Preferred Sync Channel frequency assignments for the multi-carrier mode are given in
2 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 **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**Table 2.1.14-2. CDMA Channel Number to CDMA Frequency
Assignment Correspondence for Band Class 13**

Transmitter	CDMA Channel Number	Center Frequency for CDMA Channel (MHz)
Mobile Station	$0 \leq N \leq 1399$	$2500.000 + 0.050 N$
Base Station	$0 \leq N \leq 1399$	$2620.000 + 0.050 N$

3

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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 (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 (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 (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 (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 (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 (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 (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 (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 (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 (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 (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 (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)	
			Mobile Station	Base Station
M (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 (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 (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 (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 (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 (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 (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 (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 (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 (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 (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 (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 (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 (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 (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 (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

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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

Block Designator	Spreading Rate	Preferred Set Channel Numbers
L	1	1125, 1150, 1175
	3	1150
M	1	1225, 1250, 1275
	3	1250
N	1	1325, 1350, 1375
	3	1350

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

Block Designator	Sync Channel Preferred Channel Numbers
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

Transmitter	CDMA Channel Number	Center Frequency for CDMA Channel (MHz)
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

Block Designator	CDMA Channel Validity	CDMA Channel Number	Transmit Frequency Band (MHz)	
			Mobile Station	Base Station
A (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 (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 (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 (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 (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 (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 (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

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3**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 (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 (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 (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 (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 (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 (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 (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

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

Block Designator	Spreading Rate	Preferred Set Channel Numbers
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

3

4

5

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

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

6

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

Block Designator	Transmit Frequency Band (MHz)	
	Mobile Station	Base Station
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

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

5

**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 (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 (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 (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 (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 (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 (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

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

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

Block Designator	Sync Channel Preferred Channel Numbers
A	75, 150
B	275, 350
C	450
D	550
E	650
F	775, 850

2.2 Frequency Tolerance

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 (± 0.05 ppm).

2.3 Power Output Characteristics: Controlled Output Power

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

2.3.1 Open Loop Output Power for Reverse Link Channels

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

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 Reverse Traffic Channel (RC = 1 or 2)	-73
			Enhanced Access Channel Reverse Common Control Channel Reverse Traffic Channel (RC = 3 or 4) Reverse Packet Data Channel (RC = 7)	-81.5
	3	1	Reverse Traffic Channel (RC = 3 or 4)	-76.5
		3	Enhanced Access Channel Reverse Common Control Channel Reverse Traffic Channel (RC = 5 or 6)	-76.5
1, 4, 6, 8, 13, 14, and 15	1	1	Access Channel Reverse Traffic Channel (RC = 1 or 2)	-76
			Enhanced Access Channel Reverse Common Control Channel Reverse Traffic Channel (RC = 3 or 4) Reverse Packet Data Channel (RC = 7)	-84.5
	3	1	Reverse Traffic Channel (RC = 3 or 4)	-79.5
		3	Enhanced Access Channel Reverse Common Control Channel Reverse Traffic Channel (RC = 5 or 6)	-79.5

1

2 The open loop output power when transmitting the access probe on the Reverse Access
3 Channel is summarized in Table 2.3.1-2. Note that the term CORRECTION in Table 2.3.1-2
4 refers to $NOM_PWR_S - 16 \times NOM_PWR_EXT_S$.

5

6 **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, and 15	-24 to +7 dB
	0 and 3	-8 to +7 dB

7

8 The open loop output power when transmitting on the various Reverse Link Channels are
9 summarized in Table 2.3.1-3. The supported range of combined corrections refers to a
10 number of different parameters for the different Reverse Link Channels, and are
11 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 ± 32 dB
	1,4,6, 8,13,14, and 15	At least ± 40 dB
Enhanced Access Channel	0,2,3,5,7,9,10,11, and 12	At least ± 32 dB
	1,4,6,8,13,14, and 15	At least ± 40 dB
Common Control Channel	0,2,3,5,7,9,10,11, and 12	At least ± 32 dB
	1,4,6,8,13,14, and 15	At least ± 40 dB
Reverse Traffic Channel (RC 1 or 2)	0,2,3,5,7,9,10,11, and 12	At least ± 32 dB
	1,4,6,8,13,14, and 15	At least ± 40 dB
Reverse Traffic Channel (RC 3, 4, 5, 6, or 7)	0,2,3,5,7,9,10,11, and 12	At least ± 32 dB
	1,4,6,8,13,14, and 15	At least ± 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, $RCCCH_NOM_PWR_S$, $RCCCH_INIT_PWR_S$, $PREV_CORRECTIONS$ (see [1]), and closed loop power control corrections.

For the Reverse Traffic Channel operating with Radio Configuration 1 or 2, the term “Supported Combined Range of Corrections” refers to a total combined range of interference correction, $ACC_CORRECTIONS$ (see [1]), $RLGAIN_ADJ_S$, and closed loop power control corrections.

For the Reverse Traffic Channel operating with Radio Configuration 3, 4, 5, 6, or 7, the term “Supported Combined Range of Corrections” refers to a total combined range of interference correction, $ACC_CORRECTIONS$, $RLGAIN_ADJ_S$, $RTC_NOM_PWR_S$, and closed loop power control corrections.

1 No Text.

3 REQUIREMENTS FOR THE OPERATION OF THE “CDMA2000 HIGH RATE PACKET DATA AIR INTERFACE” [2]

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]. 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] 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 3.1.1-3.⁷

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.

⁷ 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.

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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	
	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

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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	$1 \leq N \leq 799$	$0.030 N + 870.000$
	$991 \leq N \leq 1023$	$0.030 (N - 1023) + 870.000$
	$1024 \leq N \leq 1323$	$0.030 (N - 1024) + 860.040$

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

3.1.2 Band Class 1 (1900-MHz Band)

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

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

The channel spacing, CDMA channel designations, and transmitter center frequencies of Band Class 1 shall be as specified in Table 3.1.2-2. Access terminals supporting Band Class 1 shall support transmission on the valid and conditionally valid channel numbers shown in Table 3.1.2-3. 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.

The nominal access terminal transmit carrier frequency shall be 80.0 MHz lower than the frequency of the access network transmit signal as measured at the access terminal receiver.

Table 3.1.2-1. Band Class 1 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

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

Transmitter	CDMA Channel Number	Center Frequency for CDMA Channel (MHz)
Access Terminal	$0 \leq N \leq 1199$	$1850.000 + 0.050 N$
Access Network	$0 \leq N \leq 1199$	$1930.000 + 0.050 N$

**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 (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 (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 (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 (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 (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 (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.

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 3.1.3-1. 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

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 and 0–600

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	$0 \leq N \leq 1000$	$0.025 N + 934.9875$
	$1329 \leq N \leq 2047$	$0.025 (N - 1328) + 916.9875$

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

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.

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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

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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.

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**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 (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 (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 (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 (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.

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 (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 (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 (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.

1 There are eleven band subclasses⁸ specified for Band Class 5. Each band subclass
 2 corresponds to a specific block designator (see Table 3.1.6-1). Each band subclass includes
 3 all the channels designated for that system. Access terminals supporting Band Class 5
 4 shall be capable of transmitting in at least one band subclass belonging to Band Class 5.
 5 For access terminals capable of transmitting in more than one band subclass belonging to
 6 Band Class 5, one band subclass shall be designated as the Primary Band Subclass, which
 7 is the band subclass used by the access terminal's home system.

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

17 The nominal access terminal transmit carrier frequency shall be 10.0 MHz lower than the
 18 frequency of the access network transmit signal as measured at the access terminal
 19 receiver.

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 21 **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

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⁸ 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.

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

Transmitter	CDMA Channel Number	Center Frequency for CDMA Channel (MHz)
Access Terminal	$1 \leq N \leq 400$	$0.025 (N - 1) + 450.000$
	$539 \leq N \leq 871$	$0.025 (N - 512) + 411.000$
	$1039 \leq N \leq 1473$	$0.020 (N - 1024) + 451.010$
	$1536 \leq N \leq 1715$	$0.025 (N - 1536) + 479.000$
	$1792 \leq N \leq 2016$	$0.020 (N - 1792) + 479.000$
Access Network	$1 \leq N \leq 400$	$0.025 (N - 1) + 460.000$
	$539 \leq N \leq 871$	$0.025 (N - 512) + 421.000$
	$1039 \leq N \leq 1473$	$0.020 (N - 1024) + 461.010$
	$1536 \leq N \leq 1715$	$0.025 (N - 1536) + 489.000$
	$1792 \leq N \leq 2016$	$0.020 (N - 1792) + 489.000$

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**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 (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' (0.5 MHz)	Not Valid	101–120	452.500–452.975	462.500–462.975
B (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 (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 (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 (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 (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 (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 (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 (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 (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 (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

1

2 3.1.7 Band Class 6 (2-GHz Band)

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

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

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

10 The nominal access terminal transmit carrier frequency shall be 190.0 MHz lower than the
11 frequency of the access network transmit signal as measured at the access terminal
12 receiver.

13

14

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

15

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

16

17

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

18

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.

19

20 3.1.8 Band Class 7 (700-MHz Band)

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

23 Access terminals supporting Band Class 7 shall be capable of transmitting in Band Class
24 7.

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

8 The nominal access terminal transmit carrier frequency shall be 30.0 MHz higher than the
 9 frequency of the access network transmit signal as measured at the access terminal
 10 receiver.

11
 12 **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

13
 14 **Table 3.1.8-2. CDMA Channel Number to CDMA Frequency**
 15 **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 (1 MHz)	Not Valid	0–19	776.000–776.950	746.000–746.950
C (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 (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 (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.

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	$0 \leq N \leq 1499$	$1805.000 + 0.050 N$

1
2

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

4 3.1.10 Band Class 9 (900-MHz Band)

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

7 Access terminals supporting Band Class 9 shall be capable of transmitting in Band Class
8 9.

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

12 The nominal access terminal transmit carrier frequency shall be 45.0 MHz lower than the
13 frequency of the access network transmit signal as measured at the access terminal
14 receiver.

15

16 **Table 3.1.10-1. CDMA Channel Number to CDMA Frequency**
17 **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	$0 \leq N \leq 699$	$925.000 + 0.050 N$

18

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.

The access terminal shall transmit the Reverse Traffic Channel on the CDMA Channel designated by CDMACH_s. 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 eight 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

1 Primary Band Subclass, which is the band subclass used by the access terminal's home
2 system.

3 The channel spacing, CDMA channel designations, and transmitter center frequencies of
4 Band Class 11 shall be as specified in Table 3.1.12-2. Note that certain channel
5 assignments are not valid and others are conditionally valid. Access terminals supporting
6 Band Class 11 shall support operations on the valid and conditionally valid channel
7 numbers of the supported blocks shown in Table 3.1.12-3. Access networks supporting
8 Band Class 11 shall support operations on the valid and may support operations on the
9 conditionally valid channel numbers of the supported blocks shown in Table
10 3.1.12-3. Transmission on conditionally valid channels is permissible if the adjacent
11 block is allocated to the same licensee or if other valid authorization has been obtained.

12 The access terminal shall transmit the Reverse Traffic Channel on the CDMA Channel
13 designated by CDMACH_s. The nominal access terminal transmit carrier frequency shall be
14 10.0 MHz lower than the frequency of the access network transmit signal as measured at
15 the access terminal receiver.

16

17 **Table 3.1.12-1. Band Class 11 Block Frequency**
18 **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

19

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

Transmitter	CDMA Channel Number	Center Frequency for CDMA Channel (MHz)
Access Terminal	$1 \leq N \leq 400$	$0.025 (N - 1) + 450.000$
	$539 \leq N \leq 871$	$0.025 (N - 512) + 411.000$
	$1039 \leq N \leq 1473$	Reserved
	$1536 \leq N \leq 1715$	$0.025 (N - 1536) + 479.000$
	$1792 \leq N \leq 2016$	Reserved
Access Network	$1 \leq N \leq 400$	$0.025 (N - 1) + 460.000$
	$539 \leq N \leq 871$	$0.025 (N - 512) + 421.000$
	$1039 \leq N \leq 1473$	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 (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' (0.5 MHz)	Not Valid	101–120	452.500–452.975	462.500–462.975
B (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 (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 (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 (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 (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 (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 (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

3.1.13 Band Class 12 (800 MHz PAMR Band)

The Band Class 12 block designators for the CDMA equipment shall be as specified in Table 3.1.13-1. There are three band subclasses specified for Band Class 12. Each band subclass corresponds to a specific block designator (see Table 3.1.13-1). Each band

1 subclass includes all the channels designated for that block. CDMA equipments supporting
 2 Band Class 12 shall be capable of transmitting in at least one band subclass belonging to
 3 Band Class 12. For CDMA equipments capable of transmitting in more than one band
 4 subclass belonging to Band Class 12, one band subclass shall be designated as the
 5 Primary Band Subclass, which is the band subclass used by the access terminal's home
 6 system.

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

16 The access terminal shall transmit the Reverse Traffic Channel on the CDMA Channel
 17 designated by CDMACH_s. The nominal access terminal transmit carrier frequency shall be
 18 45.0 MHz lower than the frequency of the access network transmit signal as measured at
 19 the access terminal receiver.

20
 21 **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

22
 23 **Table 3.1.13-2. CDMA Channel Number to CDMA Frequency**
 24 **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	$0 \leq N \leq 239$	$915.0125 + 0.025 N$

**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 (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 (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 (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.

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

Block Designator	Transmit Frequency Band (MHz)	
	Access Terminal	Access Network
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

Transmitter	CDMA Channel Number	Center Frequency for CDMA Channel (MHz)
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

1
2**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 (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 (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 (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 (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 (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 (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 (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 (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 (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 (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 (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 (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 (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 (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 The nominal access terminal transmit carrier frequency shall be 80.0 MHz lower than the
15 frequency of the access network transmit signal as measured at the access terminal
16 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

1

2

3

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

Transmitter	CDMA Channel Number	Center Frequency for CDMA Channel (MHz)
Access Terminal	$0 \leq N \leq 1299$	$1850.000 + 0.050 N$
Access Network	$0 \leq N \leq 1299$	$1930.000 + 0.050 N$

4

5

6

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

Block Designator	CDMA Channel Validity	CDMA Channel Number	Transmit Frequency Band (MHz)	
			Access Terminal	Access Network
A (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 (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 (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 (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 (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 (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 (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

7

1 3.1.16 Band Class 15 (AWS Band)

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

4 Access terminals supporting Band Class 15 shall be capable of transmitting in Band Class
5 15.

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

10 Table 3.1.16-3. Note that certain channel assignments are not valid and others are
11 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 The nominal access terminal transmit carrier frequency shall be 400.0 MHz lower than the
15 frequency of the access network transmit signal as measured at the access terminal
16 receiver.

17 **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

18
19 **Table 3.1.16-2. CDMA Channel Number to CDMA Frequency**
20 **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	$0 \leq N \leq 899$	$2110.000 + 0.050 N$

**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 (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 (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 (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 (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 (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 (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

3.2 Frequency Tolerance

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

3.3 Power Output Characteristics: Controlled Output Power

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

3.3.1 Estimated Open Loop Output Power for Reverse Link Channels

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

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