

1 Introduction

In response to AN06T5646 Notice#2, below is the more detailed information you have requested, verifying that setting the phone in test code mode or RC2 SO55 result to a same or close SAR outcome.

2 Justification

OVFKWC-KX9D supports CDMA2000 in 1X (Phase I, Protocol revision 6) mode only. CDMA2000 1X includes TIA/EIA-95B as a subset and was approved for publishing in July 1999. It provides voice and data capabilities within a standard 1.25 MHz CDMA channel. This RF bandwidth is identical to the legacy IS-95 B system standard.

For Part 24, all of CDMA measurements were conducted with Agilent 8960 as a base station simulator. The base station simulator establishes a CDMA link with the test device. The CDMA link that was configured via 8960 for all of measurements are as follow.

- Radio Configuration: RC1
- Service Options: SO2
- Code domain channels: R-FCH + R-PICH
- Cell Power: -100 dBm/1.23MHz to 103 dBm/1.23MHz
- Data Rate: full rate

To perform SAR tests, the phone was placed in test code mode to transmit maximum power at full rate for the specified channel. The CDMA signal tested was TIA/EIA-95B based, i.e. RC1, SR1 and R-FCH only and full rate. SAR value depends on the transmitter power level and the duty cycle of the power being transmitted. The test device was placed in the test code mode in order to maintain the maximum outputs in all applicable modes during the entire SAR testing. Since the tests were conducted at all channels with phone transmitting maximum power and at full rate, these measurements would indicate the maximum possible SAR value for that particular channel irrespective of RC's, SO's and other data rates. As long as these measurements demonstrate SAR compliance, it should also demonstrate compliance for other configurations that were not tested.

3 Test Setup and Result

To show that the result did not differ significantly, the phone was set to two configurations for comparison. First, the phone was set to test code as originally filed, and then the phone was set to RC2, SO55. The device was placed at the worst case measurement location. As a result, the outcome shows test code mode represents the worst configuration.

Mode	Ch/f(MHz)	Conducted Power (dBm)	Device Position	Device Configuration	SAR Measured (mW/g)
CDMA-1900	600(1880)	23.10	Right Cheek	Test Code	1.33
CDMA-1900	600(1880)	23.20	Right Cheek	RC2, SO55	1.31