Chris Harvey

From: C.K. Li [cli@kyocera-wireless.com]
Sent: Thursday, August 04, 2005 1:00 PM
To: Chris Harvey
Cc: 'Mike Kuo'; Lin Lu
Subject: Re: FW: Kyocera Wireless Corp, FCC ID: OVFKWC-KX160A, Assessment NO.: AN05T5014, Notice#1

Chris,

Below please found the more detail supporting info you requested:

OVFKWC-KX160A *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 22 and 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 as follows.

- *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.

I trust this has answered you questions.

Best regards,

CK Li
Kyocera Wireless Corp.
Tel. 858-882-3945

At 04:14 PM 8/2/2005 -0400, Chris Harvey wrote:

> CK, I received an out of office message from Lin Lu so I am forwarding this to you.

Thank you for your assistance in this matter.

Best regards,

Chris Harvey
cell 443-622-3300

-----Original Message-----
From: Compliance Certification Services [mailto:charvey-tcb@ccsemc.com]
Sent: Tuesday, August 02, 2005 8:03 PM
To: llu@kyocera-wireless.com
Cc: charvey-tcb@ccsemc.com
Subject: Kyocera Wireless Corp, FCC ID: OVFKWC-KX160A, Assessment NO.: AN05T5014, Notice#1

Dear Lin Lu,
I am reviewing the Kyocera CDMA handset AN05T5014 TCB Certification application and have come across the following statements in the Operational Description:

The phone will support certain CDMA2000 radio-configurations (RC) as followings:
Reverse/Forward Traffic Channel RC 1
RC3 Reverse Fundamental Channel and demodulation of RC 4, 5 or 5
RC3 Reverse Fundamental Channel, RC3 Reverse Supplement Channel 0 and demodulation of RC 3, 4 or 5

The report states:
OVFKWC-KX160A can operate in the CDMA mode specified in IS-2000.2 standard, release 0. It can only invoke a Spreading Rate 1 (SR1) operational mode. SR1 is defined as a 1.2288 Mcps chip rate-based system using a direct-spread single carrier, which limits the bandwidth to the same 1.25MHz bandwidth occupied by the legacy IS-95/8-A/B system. Thus, for SR1 in IS-2000, the frequency response is identical to the legacy IS-95 B system standard.

The CDMA signal was configured for all of measurements as follows:
Radio Configuration: RC1
Code domain channels: R-FCH + R-PICH
Mobile Power: Max
Data Rate: full rate

The FCC has expressed concerns for devices, especially portable, that operate using CDMA2000 modulation schemes. They have recently asked for explanation stating:
We are concerned to make sure that during the EMC testing the device has been tested at rated average output and crest factor (max/min)..
Additionally the FCC wants to be sure that the handset is operated to produce the worst possible RF Exposure during SAR testing.

Please provide additional explanation about the CDMA2000 operations in light of the FCC's concerns for proper testing.

Best regards,
Chris Harvey
charvey-tcb@ccsemc.com

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of the original e-mail date may result in application dismissal and forfeiture of the filing fee. Also, please note that partial responses increase processing time and should not be submitted. Any questions about the content of this correspondence should be directed to the e-mail address listed below the name of the sender.