

Non-Conformities E07-000029-01

FCC

1) The intent of 2.1033(c)(8) has not been satisfied. Please supply the DC voltages and currents into several elements of the final radio frequency amplifying device for normal operation over the power range.

For the downlink or transmit path, the DC voltage into the PA is +27VDC±1VDC. The current consumption of the PA is typically 6.5 amperes at full power (43dBm/20W at the output antenna port). The PA has RF transistors that are class AB devices which pull current depending on the RF output power. The PA consumes 2 amperes typical with no RF output power. The driver amplifier (WBA) is supplied with 6.8VDC±0.5VDC. The WBA current consumption is constant with respect to output power as the RF devices are class A. The typical WBA current is 850mA.

2) 2.1033(c)(13): The operational description omits the approved types of modulation used for this equipment. Please clarify which modulation types are approved.

EDGE, CDMA/WCDMA

3) Please specify the minimum output power rating. (CKC CS assumes power is continuously variable with minimum power output of zero, please confirm whether this assumption is correct.)

The minimum output rating for the DL or TX path is no RF power. The assumption that the power is continuously variable with minimum power output of zero is right.

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4) Amplifier gain listed in test report is 45.6dB. Users manual specifications indicate typical gain of 45 to 70dB. Please clarify actual amplifier gain. Please confirm equipment is tested with maximum output power.

The equipment is tested with maximum output power.

The user manual specifies gain from the output of the optical link system to the antenna port. It does not include the loss of the optical link. Because this system is optically feed, the loss specification for the optical link is undefined. The optical loss including the RF/optical conversion could be anywhere from 20 to 40 dB. The 45 dB of gain measured through the system included the loss of the optical link.