FCC RF EXPOSURE EXHIBIT

Plantronics Model: D100Y DECT UPCS Wireless USB Audio Adapter FCC ID: AL8-D100Y

Device Description & Mode(s) of Operation

The D100Y is a wireless USB audio system. The D100Y adapter plugs into a standard PC USB jack and subscribes to a provided WH210 headset. A WH210 headset (FCC ID: AL8-WH210) is provided for device pairing. The EUT system is a UPCS TDMA system which "further divides access in time" in the context of clause 6.2.2 of C63.17-2006. Frame period is 10mS. There are 24 timeslots per frame, with one of the first 12 timeslots used for the headset transmissions and one of the last 12 timeslots used for the base (D100Y) transmissions. Transmit and receive timeslots are 5mS apart in time.

Duty Cycle

Standard UPCS single slot duty cycle is 390us transmit per 10ms frame for a duty cycle of 3.9% (1 slot out of 24). The worst-case (maximum) transmission duration is CAT-iq longslot wideband mode which is equivalent to 1.5 standard DECT/UPCS slots (approximately 590us duration) for a duty cycle of 5.9% (1.5 slots out of 24). Note: The D100Y does not support the proprietary 780us dual-slot wideband mode (2 slots out of 24) used on other Plantronics DECT headset systems.

RF Output Power

Manufacturer's Rated Maximum Peak Conducted Power = 17.51 dBm (56.4 mW)

(1/24 slots - 390us transmit per 10ms frame)
Manufacturer's Specified Source-Based Time-Averaged Duty Cycle = 3.9%
Source-Based Time-Averaged Conducted Output Power = 3.42 dBm (2.2 mW)

(1.5/24 slots - 590us transmit per 10ms frame)
Manufacturer's Specified Source-Based Time-Averaged Duty Cycle = 5.9%
Source-Based Time-Averaged Conducted Output Power = 5.22 dBm (3.3 mW)

RF Exposure Environment

The D100Y wireless USB audio adapter is intended for operation within the General Population / Uncontrolled RF exposure environment.

Analysis Summary

Based on the transmission modes, operating configurations and maximum source-based time-averaged output power and duty cycle as described in this document, SAR compliance is demonstrated for the Plantronics D100Y DECT USB Audio Adapter without routine SAR measurements in accordance with FCC KDB Inquiry Tracking Number 792521.