RF Exposure / MPE Calculation

No.: 10156278H

Applicant : silex technology, Inc.

Type of Equipment : SDIO Wireless Module

Model No. : SX-SDMGN FCC ID : N6C-SDMGN

silex technology, Inc. declares that Model: SX-SDMGN complies with FCC radiation exposure requirement specified in the FCC Rule 2.1091 (for mobile).

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "SX-SDMGN" as calculated

from (B) Limits for General Population / Uncontrolled Exposure of

TABLE 1- LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) of $\S 1.1310$ Radiofrequency radiation exposure limits.

This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm^2 uncontrolled exposure limit. The Friis formula used was:

 $S = (P * G) / (4* \pi * r^2)$

Where

P = 194.73 mW (Maximum average output power)

G = 3.16 Numerical Antenna gain; equal to 5.00 dBi

r = 20.0 cm

For: SX-SDMGN $S = 0.12251 \text{ mW/cm}^2$

Reference data from Original test report: 32IE0153-HO-01

Where

P = 194.73 mW (Maximum peak output power)

G = 1.62 Numerical Antenna gain; equal to 2.10 dBi

r = 20.0 cm

For: SX-SDMGN $S = 0.06283 \text{ mW/cm}^2$