RF Exposure / MPE Calculation

No.: 10195552-001H

Applicant : silex technology, Inc.

Type of Equipment: SDIO Wireless Module (11n-20(5180 - 5320MHz),

11n-40(5190 - 5310MHz), 11a(5180 - 5320MHz))

Model No. : SX-SDMAN FCC ID : N6C-SDMAN IC Number : 4908B-SDMAN

silex technology, Inc. declares that Model: SX-SDMAN

complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091 (for mobile).

RF Exposure Calculations:

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

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

TABLE 1- LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) of §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 = 24.66 mW (Maximum peak output power)

G = 3.02 Numerical Antenna gain; equal 4.80 dBi

r = 20.0 cm

For: SX-SDMAN $S = 0.01482 \text{ mW/cm}^2$

Reference data from Original test report: 32IE0154-HO-01

Where

P = 24.66 mW (Maximum peak output power)

G = 1.78 Numerical Antenna gain; equal 2.50 dBi

r = 20.0 cm

For: SX-SDMAN $S = 0.00872 \text{ mW/cm}^2$

UL Japan, Inc.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116 Facsimile : +81 596 24 8124