Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: YT2SDSWIRX2010

Project No.	**:** 1009C122A
Equipment	**:** Wireless Receiver
Model	**:** SDSWiRX
Applicant	**:** Elan Home Systems, LLC
Address	**:** 1300 East New Circle Road, Suite 150 Lexington, KY 40505-4259,United States
According:	**: FCC Guidelines for Human Exposure IEEE C95.1**

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:
S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Ant.	Brand name	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB Antenna	N/A	3.30

TEST RESULTS

EUT：	Wireless Receiver	Model Name ：	SDSWiRX
Temperature：	23 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	CH00/ CH19 /CH37		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
3.3	**2.1380**	**14.47**	**27.9898**	**0.01191106**	**1**	**Complies**
3.3	2.1380	14.46	27.9254	0.01188366	1	Complies
3.3	2.1380	13.28	21.2814	0.00905629	1	Complies

The MPE is calculated as **0.01191106** mW / c m^2 < limit 1 mW / c m^2. So, RF exposure limit warning or SAR test are not required.

For 2403.328~2479.104 MHz, the EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.