



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: IPUSCW100TX

Project No. : 1204C174
Equipment : SCW-100 Wireless
Model : Transmitter
Applicant : DEI Sales Inc. dba Definitive Technology
Address : One Viper Way Vista, CA 92081 United States

According: : FCC Guidelines for Human Exposure IEEE C95.1

Neutron Engineering Inc.

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

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	3.3

TEST RESULTS

EUT:	SCW-100 Wireless	Model Name :	Transmitter
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	2403.328/2442.24/2479.104		

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	13.92	24.6604	0.01049422	1	Complies
3.3	2.1380	14.59	28.7740	0.01224476	1	Complies
3.3	2.1380	15.22	33.2660	0.01415632	1	Complies