



Certification Exhibit

FCC ID: N2S-SC42E-235470

FCC Rule Part: 47 CFR Part 2.1093

Project Number: 72150545

Manufacturer: Silvus Technologies, Inc.
Model: SC4240E-235470-BB

RF Exposure

General Information:

Applicant: Silvus Technologies, Inc.
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Dual-Band Omni Antenna, Half Wave Dipole (Southwest Antennas, P/N: 1001-071)
 Antenna Gain: 2.5dBi (2x2 MIMO); Directional Gain: 5.5dBi
 Maximum Transmitter Conducted Power: 27dBm Per Chain / 30dBm Total, 1000mW
 Maximum System EIRP: 35.5 dBm, 3556.31 mW
 Exposure Conditions: Greater than 20 centimeters

MPE Calculation

The Power Density (mW/cm²) is calculated as follows:

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

Where:

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

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 (appropriate units, e.g., cm)

Table 1: MPE Calculation

Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/cm ²)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm ²)
4945	30	1.00	1000.00	5.51	3.556	20	0.708