



Certification Exhibit

FCC ID: SDBVGBM4700

FCC Rule Part: 47 CFR Part 2.1091

TÜV SÜD Project Number: 72154722

Manufacturer: Sensus USA, Inc.
Model: VGBM4700

RF Exposure

General Information:

Applicant: Sensus USA, Inc.
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: External
 Antenna Gain: 5.15 dBi; Overall Antenna Assembly Gain 3.2dBi*
 Maximum Transmitter Conducted Power: 37.4 dBm, 5495.41 mW
 Maximum System EIRP: 40.6 dBm, 11481.54 mW
 Exposure Conditions: 39 centimeters or greater

* Overall antenna assembly gain based on specified cable loss provided by manufacturer.

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) | Overall Gain (dBi) | Antenna Gain (mW eq.) | Distance (cm) | Power Density (mW/cm ²) |
|--------------------------|-------------------|---|------------------|--------------------|-----------------------|---------------|-------------------------------------|
| 930.5 | 37.4 | 0.62 | 5495.41 | 3.2 | 2.089 | 39 | 0.601 |