



Certification Exhibit

FCC ID: HSW2832

FCC Rule Part: 47 CFR Part 2.1091

Project Number: 72126480

Manufacturer: Murata Electronics North America
Model: MBN52832

RF Exposure

General Information:

Applicant: Murata Electronics North America
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Dipole Antenna
 Antenna Gain: 7 dBi
 Maximum Transmitter Conducted Power: 3.35 dBm, 2.16 mW
 Maximum System EIRP: 10.35 dBm, 10.84 mW
 Exposure Conditions: 20 centimeters or greater

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/Cm2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm^2)
2402	3.35	1.00	2.16	7	5.012	20	0.002