



Certification Exhibit

FCC ID: HSW-2410NF

FCC Rule Part: 47 CFR Part 2.1091

Project Number: 72157466

Manufacturer: Murata Electronics North America
Models: WIT2410NF

RF Exposure

General Information:

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

Technical Information:

Antenna Type: Corner Reflector
 Antenna Gain: 12 dBi
 Maximum Transmitter Conducted Power: 18.01 dBm, 63.24 mW
 Maximum System EIRP: 30.01 dBm, 1002.31 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)
2435.7888	18.01	1.00	63.24	12	15.849	20	0.1994