



Certification Exhibit

FCC ID: 2AKUXID2

FCC Rule Part: 47 CFR Part 2.1093

Project Number: 72153565

Manufacturer: Federal Express Corporation
Model: FedEx ID Node 2

RF Exposure

General Information:

Applicant: Federal Express Corporation
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Printed Trace Antenna
 Antenna Gain: 0 dBi
 Maximum Transmitter Conducted Power: 2.3dBm, 1.7mW
 Maximum System EIRP: 2.3dBm, 1.7mW
 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) |
|--------------------------|-------------------|---|------------------|--------------------|-----------------------|---------------|-------------------------------------|
| 2402 | 2.3 | 1.00 | 1.70 | 0 | 1.000 | 20 | 0.000338 |