



Certification Exhibit

FCC ID: 2AG9G-FCL5324

FCC Rule Part: 47 CFR Part 2.1091

TÜV SÜD Project Number: 72136736

Manufacturer: Flextronics America LLC
Model: FCL5324

RF Exposure

General Information:

Applicant: Flextronics America LLC
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

The 2.4 GHz Wi-Fi is collocated and transmits simultaneously with the 900 MHz LoRa radio.

Technical Information:**Table 1: Technical Information**

| | <i>2.4 GHz Wi-Fi</i> | <i>900 MHz LoRa</i> |
|------------------------|----------------------|---------------------|
| Antenna Type(s) | PIFA | PIFA |
| Antenna Gain (dBi) | 1 | 1 |
| Conducted Power (dBm) | 23.804 | 19.86 |
| Conducted Power (mW) | 240.10 | 96.83 |
| Maximum Peak EIRP (mW) | 302.27 | 121.90 |
| Maximum Peak ERP (mW) | 184.25 | 74.30 |

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 2: MPE Calculation (Including Collocated Devices)

| 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) | Radio |
|--------------------------|-------------------|---|------------------|--------------------|-----------------------|---------------|-------------------------------------|-------|
| 2437 | 23.804 | 1.00 | 240.10 | 1 | 1.259 | 20 | 0.060 | A |
| 923.3 | 19.86 | 0.62 | 96.83 | 1 | 1.259 | 20 | 0.024 | B |

Summation of MPE ratios – Simultaneous Transmissions

This device contains multiple transmitters which can operate simultaneously; therefore the maximum RF exposure is determined by the summation of MPE ratios. The limit is such that the summation of MPE ratios is ≤ 1.0 .

Table 3: Summation of MPE Ratios

| | |
|-------------------------|-------------|
| Radio A (2.4 GHz Wi-Fi) | x |
| Radio B (900 MHz LoRa) | x |
| Radio A MPE Ratio | 0.060135392 |
| Radio B MPE Ratio | 0.039398398 |
| MPE Ratio Summation: | 0.099533790 |