



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