



America

Certification Exhibit

FCC ID: Z9O-92053071

FCC Rule Part: 47 CFR Part 2.1091

TÜV SÜD Project Number: 72137423

Manufacturer: Ecolab, Inc.
Model: 92053071

RF Exposure

General Information:

Applicant: Ecolab, Inc.
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Ceramic Chip Antenna
 Antenna Gain: -2.5 dBi
 Maximum Transmitter Conducted Power: 11.07 dBm, 12.7900 mW
 Maximum System EIRP: 8.57 dBm, 7.1944 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/Cm ²)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm ²)
913.74	11.07	0.61	12.79	-2.5	0.562	20	0.001
917	-8.48	0.61	0.14	-2.5	0.562	20	0.000