



Excellence in Compliance Testing

Certification Exhibit

FCC ID: SJS-400099WH

FCC Rule Part: 47 CFR Part 2.1091

ACS Project Number: 16-0481

Manufacturer: MARS Company
Model: 400099WH

RF Exposure

General Information:

Applicant: MARS Company
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Planar F Type Antenna
 Antenna Gain: -0.6 dBi
 Maximum Transmitter Conducted Power: 19.03 dBm, 79.98 mW
 Maximum System EIRP: 18.43 dBm, 69.66 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)
905	19.03	0.60	79.98	-0.6	0.871	20	0.014