



America

Certification Exhibit

FCC ID: 2AA7KSATURN-26000

FCC Rule Part: 47 CFR Part 2.1091

TÜV SÜD Project Number: 72138283

Manufacturer: Star Systems International Limited
Model: HRD26000

RF Exposure

General Information:

Applicant: Star Systems International Limited
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Planar
 Antenna Gain: 13 dBi
 Maximum Transmitter Conducted Power: 32.56 dBm, 1803.02 mW
 Maximum System EIRP: 45.56 dBm, 35974.93 mW
 Exposure Conditions: 69 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/Cm2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm^2)
919.75	32.56	0.61	1803.02	13	19.953	69	0.601