Excellence in Compliance Testing

Certification Exhibit

FCC ID: YWZ-S3I0007

FCC Rule Part: 15.247

ACS Project Number: 15-0129

Manufacturer: Alpha - High Theft Solutions, A Division of Checkpoint Systems, Inc.
Model: S3I-0007

RF Exposure

General Information:

Applicant: Alpha – High Theft Solutions, A Division of Checkpoint Systems, Inc.
Device Category: Mobile
Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Printed Circuit board wiggle
Antenna Gain: 2.15 dBi
Maximum Transmitter Conducted Power: 4.07 dBm, 2.55 mW
Maximum System EIRP: 6.22 dBm, 4.19 mW
Exposure Conditions: Greater than 20 centimeters

MPE Calculation

The Power Density (mW/cm^2) 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)

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)
2440	4.07	1.00	2.55	2.15	1.641	20	0.001

Conclusion

This device complies with the MPE requirements by providing adequate separation between the device, any radiating structure and the general population.