



Excellence in Compliance Testing

Certification Exhibit

FCC ID: YKD-25TWD3000

FCC Rule Part: CFR 47 Part 90, DA 09-2482

ACS Report Number: 10-0003.W03.11.A

Applicant: L-3 Communications CyTerra
Model: RANGE-R

RF Exposure

General Information:

Applicant: L-3 Communications CyTerra
ACS Project: 10-0003
Device Category: Mobile (Handheld Only)
Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Cavity-backed Spiral
Antenna Gain: 1dBi
Maximum Transmitter Conducted Power: 14.24 dBm, 26.54 mW
Maximum System EIRP: 15.24 dBm, 33.4 mW
Exposure Conditions: Greater than 20 centimeters

Justification for Exclusion:

The RANGE-R, FCC ID: YKD-25TWD3000, is a stand-alone portable, handheld, battery operated system. It is designed to detect moving and near stationary personnel through walls constructed of common building materials. It is designed to be operated while handheld only and provide a separation distance of > 20cm from the body.

Per KDB 447498 section 4(c), the RANGE-R is excluded from hand SAR based on maximum output power $< 1000 \cdot [f(\text{GHz})] - 0.5$ mW. With a maximum operating frequency of 3.42 GHz, the power threshold per KDB 447498 section 4(c) is equivalent to 541 mW.