

# **Type Acceptance Test Report**

### Multimode PCS Repeater FCC Rule Parts: 2, 15 & 24

## ACS Report Number: 03-0089-24TA

Manufacturer: EMS Wireless Model: Link2Cell

FCC ID: DNY0B2L2C1900

# **Appendix H**

# **RF Exposure Information**

### **General Information:**

Applicant:	EMS Wireless
ACS Project:	03-0089
FCC ID:	NUW0B2L2C1900
Device Category:	Fixed Mount
Environment:	General Population/Uncontrolled Exposure

#### **Technical Information:**

Antenna Type:	Integrated folded dipole and External Patch		
Antenna Gain:	13 dBi		
Transmitter Conducted Power:	13dBm or 20mW		
Maximum System EIRP:	26dBm or 398mW		
Operating Configuration:	Wall Mounted		
Exposure Conditions:	Greater than 20cm from the population		

#### MPE Calculation

The minimum separation distance is calculated as follows:

$E(V/m) = \sqrt{30xPxG}$	Power Density: $P_d = (mW/cm^2) =$	<u> </u>
d		

MPE Distance

MPE Limits for General Population/Uncontrolled Exposure						
Radio Power			MPE Distance			
(dBm)	(dBi)	(mW)	(mW/cm2)	(cm)		
13	13	398.11	1.00	5.63		

### **Installation Guidelines**

The installation manual will contain the following text advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

"In accordance with FCC regulations regarding human exposure to radiofrequency energy, this device shall be installed such that a minimum separation distance of 20cm is maintained between it and the general population"

<u>Conclusion</u> This device complies with the MPE requirements by providing adequate separation between the device and any radiating structure and the general population.