



COMMUNICATIONS, INC.

Electromagnetic Devices for Radio Communications Systems

September 11, 2012

Subject: RF MPE Exposure

IC Label: **8986A-CBDAS1A1S**

To Whom It May Concern:

The MPE calculations for model CBDAS1A1S signal booster were done for frequency band 800 Mhz.

For this band two calculations were done; these included the different possibilities of antennas that may be connected to this device : fixed outside and inside antennas.



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Minimum Safe Distance From Antennas

Based upon FCC OET Bulletin 65 and other FCC sources

INPUT DATA

Frequency (Mhz)	824
Pout (Watts)	0.1
Duty Cycle (%)	100.00%
Ant. Gain (dBi)	13.00
Coax Loss (dB)	0
Distance From Antenna (cm)	17.00

RESULTS

Ant. Gain less Coax Loss dBi	13.00
Distance From Antenna (inches)	6.69
ERP (Watt)	1.2166
EIRP (Watt)	1.9953
FCC Power Density Limit (mW/cm ²)	0.55
Calculated Power Density (mW/cm ²)	0.55

REFERENCE DATA

Pout (dBm)	20
Antenna Gain (non-log)	19.95
Coax loss (non-log)	1
General FCC Limit (mW/cm ²)	f/1500



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Minimum Safe Distance From Antennas

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INPUT DATA

Frequency (Mhz)	869
Pout (Watts)	0.1
Duty Cycle (%)	100.00%
Ant. Gain (dBi)	6.00
Coax Loss (dB)	0
Distance From Antenna (cm)	7.40

RESULTS

Ant. Gain less Coax Loss dBi	13.00
Distance From Antenna (inches)	2.91
ERP (Watt)	0.2427
EIRP (Watt)	0.3981
FCC Power Density Limit (mW/cm ²)	0.58
Calculated Power Density (mW/cm ²)	0.58

REFERENCE DATA

Pout (dBm)	20
Antenna Gain (non-log)	3.98
Coax loss (non-log)	1
General FCC Limit (mW/cm ²)	f/1500

A handwritten signature in black ink, appearing to read 'Ricardo', with a long, sweeping underline that extends to the left and then curves back up to the right.

Ricardo de Goycochea.
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