

	Date(s) of Evaluation July 20-28, 2015	Test Report Serial No. 071515AMW-T1331-MPE	Test Report Revision No. Rev. 1.3 (4th Release)	
	Test Report Issue Date 27 Aug 2015	Description of Test(s) Specific Absorption Rate	RF Exposure Category General Population	

Test Lab Certificate No. 2470.01

Prediction of MPE Limit
47 CFR § 2.1091/ § 2.1093

$$S_{20} = \frac{P_A G_N}{4\pi R_{20}^2}$$

$$S_C = \frac{P_A G_N}{4\pi R_C^2}$$

$$R_C = \sqrt{\frac{P_A G_N}{4\pi S_L}}$$

$$S_L = \frac{180}{f^2} \text{ (mW/cm}^2\text{)}$$

S_{20} = Power Density of the Device at 20cm
 S_L = Power Density Limit
 S_C = Power Density of the Device at the Compliance Distance R_C
 R_{20} = 20cm
 R_C = Minimum Distance to the Radiating Element to Meet Compliance
 P_T = Power Input to Antenna
 P_A = Adjust Power
 G_N = Numeric Gain of the Antenna
 f = Transmit Frequency

Transmit Duty Cycle = 50% Push-To-Talk Transmit Duty Cycle

Use Group = General Population

Transmit Duty Cycle:	50.00	(%)
Tx Frequency (f):	27.40	(MHz)
RF Power at Antenna Input Port (P_T):	4000.00	(mW)
Antenna Gain:	3.00	(dBi)
Numeric Antenna Gain (G_N):	2.00	(numeric)
Cable or Other Loss:	0.00	(dB)
Duty Cycle/Loss Adjusted Power (P_A):	2000.00	(mW)
S_L =	0.240	(mW/cm ²)
S_{20} at 20cm =	0.794	(mW/cm ²)
R_C =	36.4 (37)	(cm)
S_C at 37cm =	0.233	(mW/cm ²)

The Applicant's User's Manual must indicate a minimum separation distance of: **37cm**

Art Voss



Senior Engineer

Celltech Labs Inc.

Applicant:	Uniden America Corp	FCC ID:	AMWUT407	IC:	513C-UT407	
DUT Type:	Mobile AM CB Transceiver	Model:	PC78LTD	26.965-27.405 MHz		
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