



166 South Carter, Genoa City, WI 53128

Company:
Model Tested:
DLS Project:

RF Technologies Inc.
0800-0542
7099

FCC Code of Federal Regulations 47 Part 1.1307(b) (1)

RF Exposure Statement of Compliance

THE FOLLOWING **MEETS** THE ABOVE TEST SPECIFICATION

Formal Name:	Quick Response Premiere Nurse Call with Checkin
Kind of Equipment:	Wireless Nurse Call Device
Frequency Range:	2405-2475 MHz
Test Configuration:	Tabletop
Model Number(s):	0800-0539, 0800-0540, 0800-0541, 0800-0542
Model(s) Tested:	0800-0542
Serial Number:	DUT 1
Date of Tests:	March 18 th through March 27 th , 2015
Test Conducted For:	RF Technologies, Inc. 3125 N. 126 th Street Brookfield, WI 53005, USA



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Transmitter Information:

Maximum Radiated Output Power:	1.97 dBm
Maximum Effective Isotropic Radiated Power	1.57 mW
Frequency:	2440 MHz
Antenna Type:	2 Cross Polarized Chip Antennas 90° out of Phase
Antenna Gain:	5.0 dBi

Exposure Limit:

Maximum Permissible Exposure (MPE) limit for General Population / Uncontrolled Exposure in the frequency range 1500 – 100,000 MHz (ref: 47 CFR Part 1.1310 Table 1(b))

Limit: (S) (mW/cm²) = 1.0 mW/cm²

MPE Calculation:

Power Density (mW/cm²):

$$S = \frac{PG}{4\pi R^2}$$

S = Power Density (mW/cm²)

P = Power Input to the antenna (mW)

G = Numeric Power Gain of the antenna

R = Distance to the center of the radiation of the antenna (cm)



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Results:

RF Exposure Calculation

	Input	
Frequency =	2440	MHz
P =	1.97	dBm
G =	5	dBi
R =	20	cm
π	3.14159	

Transmit Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (cm)	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)	Margin
2440	1.97	1.57398	5	3.16228	20	0.0010	1.0	0.999

Summary of Results:

With a minimum separation distance of 20 centimeters as defined by FCC 2.1091(b), for a mobile device, the RF Technologies Inc. Quick Response Premiere Nurse Call with Check In model 0800-0542 **meets** the RF exposure evaluation requirements for maximum permissible exposure to any radiating structure and the general population / uncontrolled exposure.

Conclusion:

The RF Technologies Inc Quick Response Premiere Nurse Call with Check In model 0800-0542 operating under FCC part 15.247 complies with the requirements of FCC Part 1.1307(b)(1) for RF Exposure Evaluation.