166 South Carter, Genoa City, WI 53128

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 Router/Gateway Zigbee Transceiver
Kind of Equipment:	802.15.4 Wireless Module
Frequency Range:	2405-2475 MHz
Test Configuration:	9-15V AC or DC powered transceiver module
Model Number(s):	0800-0550 Internal Antenna 0800-0551 External High Gain Antenna
Model(s) Tested:	0800-0551 External High Gain Antenna
Serial Number(s):	DUT 6
Date of Tests:	August 13, 2015 through August 27, 2015
Test Conducted For:	RF Technologies 3125 N 126th St. Brookfield, WI. 53005

166 South Carter, Genoa City, WI 53128

Transmitter Information:

Maximum Conducted Output Power:	9.45 dBm (8.81mW)
Maximum Effective Isotropic Radiated Power	11.65 dBm
Frequency:	2405 MHz
Antenna Type:	External High Gain
Antenna Gain:	2.2 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/cm^2) = 1.0 mW/cm^2

MPE Calculation:

Power Density (mW/cm^2):

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

S = Power Density (mW/cm^2)
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)

166 South Carter, Genoa City, WI 53128

Results:

RF Exposure Calculation

	Input	
Frequency =	2405	MHz
P =	9.45	dBm
G =	2.2	dBi
R =	20	cm
π	3.14159	

Transmit Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain	Distance (cm)	Power Density (mW/cm²)	Power Density Limit (mW/cm²)	Margin
2405	9.45	8.81049	2.2	1.65959	20	0.0029	1.0	0.997

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 Quick Response Router/Gateway Zigbee Module **meets** the RF exposure evaluation requirements for maximum permissible exposure to any radiating structure and the general population / uncontrolled exposure.

Conclusion:

The RF Technologies Quick Response Router/Gateway Zigbee Module operating under FCC part 15.247 complies with the requirements of FCC Part 1.1307(b)(1) for RF Exposure Evaluation.

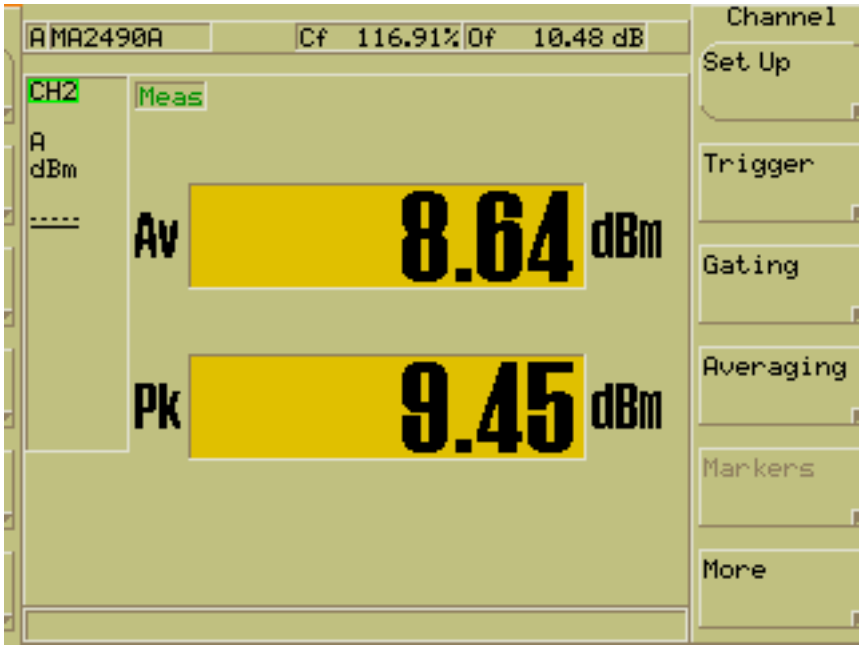
Supporting data to follow…

166 South Carter, Genoa City, WI 53128

Test Date: 08-19-2015
Company: RFT Technologies
EUT: Quick Response Premier Router/Gateway
Test: Peak Power Output - Conducted – 15.247 (b)(3)
Operator: Paul L

Comment: Low Channel – Ch.11 2.405 GHz

Peak Output Power = 9.45 dBm = 8.81mW

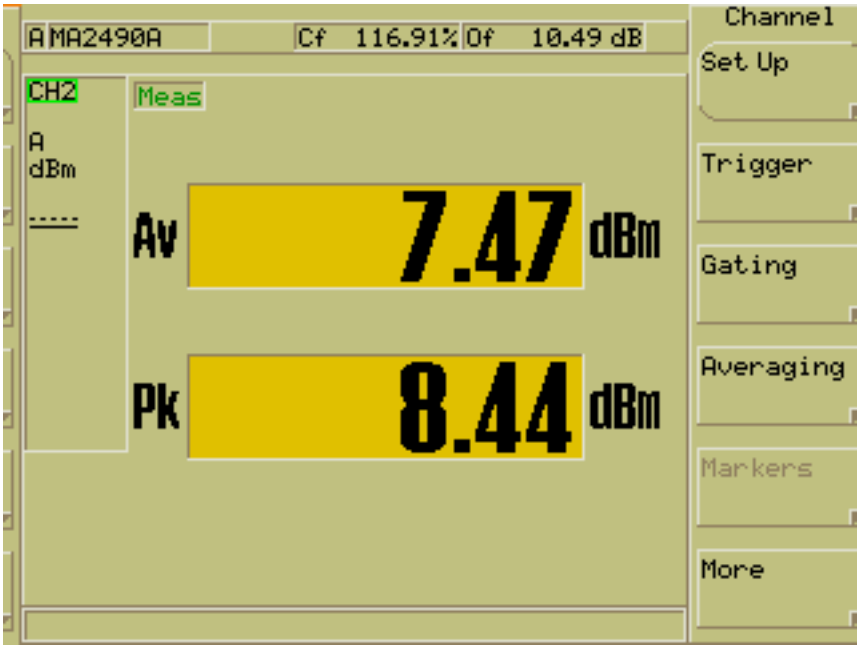


166 South Carter, Genoa City, WI 53128

Test Date: 08-19-2015
Company: RFT Technologies
EUT: Quick Response Premier Router/Gateway
Test: Peak Power Output - Conducted – 15.247 (b)(3)
Operator: Paul L

Comment: Mid Channel – Ch.18 2.440 GHz

Peak Output Power = 8.44dBm = 6.982mW



166 South Carter, Genoa City, WI 53128

Test Date: 08-19-2015
Company: RFT Technologies
EUT: Quick Response Premier Router/Gateway
Test: Peak Power Output - Conducted – 15.247 (b)(3)
Operator: Paul L

Comment: High Channel – Ch. 25 2.475 GHz

Peak Output Power = 7.44 dBm = 5.546mW