Date:	January 8, 2009	
Applicant:	Innovative Wireless Technologies 1047 Vista Park Drive Forest VA 24551	
Attention of:	Gary L. Raulerson, Jr. 434-316-5230 x14 434-316-5232 fax	
Equipment: FCC ID: FCC Rules:	FAP2210-001 SP8-FAP2210-001 Radio Frequency Radiation Exposure Lim 47 CFR 1.1310 MPE - Mobiles	nits Fixed Based Station X
Gentlemen:		
Enclosed please find your copy of (MPE) of the referenced equipment	f the Supplemental Test Data Report, the w nt as shown.	hole for Environmental Assessmen
Please allow from 8-12 weeks to be even a sample for pre-grant audit	near from the Commission, who may requestesting.	st additional data or information, and
Should you need any clarification, of service.	just fax or phone. Thank you again for this	order - it has been a pleasure to be

Sincerely yours,

Hoosamuddin Bandukwala, Lab Director

p08b0016, d0910004



Date:	January 8, 2009			
Federal Communications Commis Via: Electronic Filing	sion			
Attention:	Authorization & Evaluation Division			
Applicant: Equipment: FCC ID: FCC Rules:	Innovative Wireless Technologies FAP2210-001 SP8-FAP2210-001 Radio Frequency Radiation Exposure Limits 47 CFR 1.1310 MPE - Mobiles	Fixed Based Station _	X	
Gentlemen:				
On behalf of the Applicant, enclose Assessment (MPE) of the reference	ed please find the Supplemental Test Data Reporced equipment as shown.	rt, the whole for Environm	nental	
We trust the same is in order. Should you need any further information, kindly contact the writer who is authorized to act as agent.				

Hoosamuddin Bandukwala, Lab Director

Sincerely yours,



http://www.flomlabs.com

Environmental Assessment

for

Mobiles

for

FCC ID: SP8-FAP2210-001

Model: FAP2210-001

to

Federal Communications Commission

47 CFR 1.1310

Radio Frequency Radiation Exposure Limits

Date Of Report: January 8, 2009

On the Behalf of the Applicant: Innovative Wireless Technologies

At the Request of: Innovative Wireless Technologies

1047 Vista Park Drive Forest VA 24551

Attention of: Gary L. Raulerson, Jr.

434-316-5230 x14 434-316-5232 fax

Supervised By:

Hoosamuddin Bandukwala, Lab Director



Table of Contents

Rule	Description	Page
	Test Report	1
	Identification of the Equipment Under Test	2
	Standard Test Conditions and Engineering Practices	4
1.1310	Environmental Assessment	5

http://www.flomlabs.com info@flomlabs.com

Required information per ISO 17025-2005, paragraph 5.10:

b) Laboratory: Flom Test Labs

(FCC: 31040/SIT) 3356 N. San Marcos Place, Suite 107

Chandler, AZ 85225 (Canada: IC 2044)

c) Report Number: d0910004

d) Client: Innovative Wireless Technologies

> 1047 Vista Park Drive Forest VA 24551

e) Identification: SP8-FAP2210-001

Description: Gateway Node FAP2210-001

f) EUT Condition: Not required unless specified in individual tests.

g) Report Date: January 8, 2009

h, j, k): As indicated in individual tests.

i) Sampling method: No sampling procedure used.

I) Uncertainty: In accordance with FTL internal quality manual.

m) Supervised by:

Hoosamuddin Bandukwala, Lab Director

n) Results: The results presented in this report relate only to the item tested.

This report must not be reproduced, except in full, without written permission o) Reproduction:

from this laboratory.



Identification of the Equipment Under Test (EUT)

Name and Address of Applicant:	Innovative Wireless Technologies 1047 Vista Park Drive Forest VA 24551
Manufacturer:	Innovative Wireless Technologies 1047 Vista Park Drive Forest VA 24551
FCC ID:	SP8-FAP2210-001
Model Number:	FAP2210-001
Description:	Gateway Node FAP2210-001
Type of Emission:	DTS
Frequency Range, MHz:	903 - 927
Power Rating, Watts: Switchable	X Variable N/A
Modulation: Antenna:	AMPS TDMA CDMA X OTHER Helical Monopole Whip Other

Note: For RF Safety test antenna gain taken at the upper range of expected gain (i.e. 0 dBd) and RF Power set to highest nominal power across all channels.



http://www.flomlabs.com

A2LA

"A2LA has accredited Flom Test Labs, Inc. Chandler, AZ for technical competence in the field of Electrical testing. The accreditation covers the specific tests and types of tests listed on the agreed scope of accreditation. This laboratory meets the requirements of ISO 17025:2005 'General Requirements for the Competence of Testing and Calibration Laboratories' and any additional program requirements in the identified field of testing."

Please refer to www.a2la.org for current scope of accreditation.

Certificate number: 2152.01



http://www.flomlabs.com info@flomlabs.com

Standard Test Conditions and Engineering Practices

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with ANSI C63.4-2004 and unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40°C (50° to 104 °F) unless the particular equipment requirements specify testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

Prior to testing, the EUT was tuned up in accordance with the manufacturer's alignment procedures. All external gain controls were maintained at the position of maximum and/or optimum gain throughout the testing.

Measurement results, unless otherwise noted, are worst-case measurements.



toll-free: (866)311-3268 fax: (480)926-3598 http://www.flomlabs.com info@flomlabs.com

Name of Test: **Environmental Assessment**

Specification: FCC: 47 CFR 1.1310

Measurement Guide: ANSI/IEEE C95.1 1992

Name of Test: R.F. Radiation Exposure

FCC Rules: 1.1307, 1.1310, 1.1311, 2.1091

Limits: Uncontrolled Exposure

47 CFR 1.1310 Table 1, (B)

0.3-1.234 MHz: 1.34-30 MHz: 30-300 MHz:

Limit $[mW/cm^2] = (180/f^2)$ 300-1500 MHz 1500-100,000 MHz:

Limit $[mW/cm^2] = 0.2$ Limit $[mW/cm^2] = f/1500 915/1500 = 0.61$

Limit $[mW/cm^2] = 100$

Limit $[mV/cm^2] = 1.0$

Test Frequencies, MHz 915 Power, Conducted, W (P) 0.200 Antenna Gain Isotropic 6dBi Antenna Gain Numeric (G) 3.98 Antenna Type Monopole Distance (R) 20 cm

Power Density Calculations

Formula = Power Density (S) = Limit =

 $S = PG / 4\pi R^2$ 0.000158 W/cm² 0.61 mW/cm²

Supervised By:

Hoosamuddin Bandukwala, Lab Director



info@flomlabs.com

Testimonial and **Statement of Certification**

This is to certify that:

- 1. That the application was prepared either by, or under the direct supervision of, the undersigned.
- 2. That the technical data supplied with the application was taken under my direction and supervision.
- 3. That the data was obtained on representative units, randomly selected.
- 4. That, to the best of my knowledge and belief, the facts set forth in the application and accompanying technical data are true and correct.

Certifying Engineer:

Test Engineer

Michael D Wymm