

Applicant:	Blackboard, Inc.
Model:	100070086
FCC ID:	TMELWI30XX002

Formulaire:	L:\Project\Formulaire\FCC.MPE.Current.rtf
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Purpose:	Environmental Assessment (MPE)
MFA Project ID:	p0790006
Client ID:	BLACKBOARD
MFA Document ID:	d0790025
Date:	September 24, 2007
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Flom Test Labs
EMI, EMC, RF Testing Experts Since 1963

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Date: September 24, 2007

Applicant: Blackboard, Inc.
22601 North 19th Ave, Suite 200
Phoenix, AZ 85027

Attention of: Tom Kuestersteffen
623-476-1263
email: tkuestersteffen@blackboard.com
and/or Tim Mattson
623-476-1400

Equipment: 100070086
FCC ID: TMELWI30XX002
FCC Rules: Radio Frequency Radiation Exposure Limits
47 CFR 1.1310
MPE - Mobiles X Fixed Based Station

Gentlemen:

Enclosed please find your copy of the Supplemental Test Data Report, the whole for Environmental Assessment (MPE) of the referenced equipment as shown.

Please allow from 8-12 weeks to hear from the Commission, who may request additional data or information, and even a sample for pre-grant audit testing.

Should you need any clarification, just fax or phone. Thank you again for this order - it has been a pleasure to be of service.

Sincerely yours,

Hoosamuddin S. Bandukwala, Lab Director



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Date: September 24, 2007

Federal Communications Commission
Via: Electronic Filing

Attention: Authorization & Evaluation Division

Applicant: Blackboard, Inc.
Equipment: 100070086
FCC ID: TMELWI30XX002
FCC Rules: Radio Frequency Radiation Exposure Limits
47 CFR 1.1310
MPE - Mobiles X Fixed Based Station _____

Gentlemen:

On behalf of the Applicant, enclosed please find the Supplemental Test Data Report, the whole for Environmental Assessment (MPE) of the referenced equipment as shown.

We trust the same is in order. Should you need any further information, kindly contact the writer who is authorized to act as agent.

Sincerely yours,

Hoosamuddin S. Bandukwala, Lab Director

Flom Test Labs
3356 N. San Marcos Place, Suite 107
Chandler, Arizona 85225-7176
(866) 311-3268 phone, (480) 926-3598 fax

p0790006, d0790025



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Environmental Assessment

for

Mobiles

for

FCC ID: TMELWI30XX002

Model:LWI30XX

to

Federal Communications Commission

47 CFR 1.1310 (MPE)

Radio Frequency Radiation Exposure Limits

Date Of Report: September 24, 2007

On the Behalf of the Applicant: Blackboard, Inc.

At the Request of: Blackboard, Inc.
22601 North 19th Ave, Suite 200
Phoenix, AZ 85027

Attention of: Tom Kuestersteffen
623-476-1263
email: tkuestersteffen@blackboard.com
and/or Tim Mattson
623-476-1400

Supervised By:

Hoosamuddin S. Bandukwala, Lab Director

Flom Test Labs
3356 N. San Marcos Place, Suite 107
Chandler, Arizona 85225-7176
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p0790006, d0790025

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Required information per ISO 17025-2005, paragraph 5.10:

a) **Test Report (Supplemental)**

b) Laboratory: Flom Test Labs
(FCC: 31040/SIT) 3356 N. San Marcos Place, Suite 107
(Canada: IC 2044) Chandler, AZ 85225

c) Report Number: d0790025

d) Client: Blackboard, Inc.
22601 North 19th Ave, Suite 200
Phoenix, AZ 85027

e) Identification: 100070086

Description: 900 MHz wireless module

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

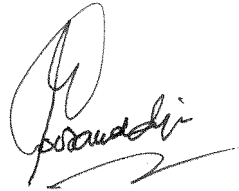
g) Report Date: September 24, 2007

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

i) Sampling method: No sampling procedure used.

l) Uncertainty: In accordance with MFA internal quality manual.

m) Supervised by:



Hoosamuddin S. Bandukwala, Lab Director

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

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

Identification of the Equipment Under Test (EUT)

Name and Address of Applicant:

Name and Address of Applicant:	Blackboard, Inc. 22601 North 19th Ave, Suite 200 Phoenix, AZ 85027		
Manufacturer:	Blackboard, Inc. 22601 North 19th Ave, Suite 200 Phoenix, AZ 85027		
FCC ID:	TMELWI30XX002		
Model Number:	LWI30XX		
Description:	900 MHz wireless module		
Type of Emission:	FHSS		
Frequency Range, MHz:	902 - 928		
Power Rating, Watts:	32.1 mW		
<input type="checkbox"/> Switchable	<input type="checkbox"/> Variable	<input checked="" type="checkbox"/> N/A	
Modulation:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			AMPS
	<input type="checkbox"/>		TDMA
	<input type="checkbox"/>		CDMA
	<input checked="" type="checkbox"/>		OTHER
Antenna:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0 dBi		<input checked="" type="checkbox"/>	Helical Monopole
	<input type="checkbox"/>		Whip
	<input type="checkbox"/>		Other

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.

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



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

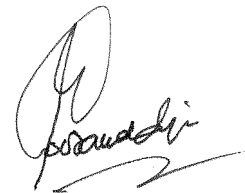
FCC Rules: 1.1307, 1.1310, 1.1311, 2.1091

Description, EUT: See page 2 of Test Report

Limits: Uncontrolled Exposure 47 CFR 1.1310 Table 1, (B)	0.3-1.234 MHz:	Limit [mW/cm ²] = 100
	1.34-30 MHz:	Limit [mW/cm ²] = (180/f ²)
	30-300 MHz:	Limit [mW/cm ²] = 0.2
	300-1500 MHz:	Limit [mW/cm ²] = f/1500
	1500-100,000 MHz:	Limit [mW/cm ²] = 1.0

Test Frequencies, MHz	902.7
Power, Conducted, W (P)	= 0.0312
Antenna Gain (G)	= 0 dB
Antenna Model	monopole

Power Density Calculations	Distance (R)		20 cm
	Power Density	$S = PG / 4\pi R^2$	0.0062 mW/cm ²
	Limit	f/1500	0.60 mW/cm ²



Supervised By:

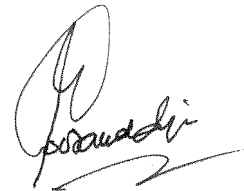
Hoosamuddin S. Bandukwala, Lab Director

**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:



Hoosamuddin S. Bandukwala, Lab Director