

Date:	July 9, 2008	
Applicant:	Telex Communications, Inc. 8601 E. Cornhusker Highway P.O. Box 5579 Lincoln, NE 68505-5579	
Attention of:	Charles E. Conner, Project Engineer (402) 467-5321; FAX: -3279 E-mail: charlie.conner@us.telex.com Jim Andersen Email: jim.andersen@us.telex.com	
Equipment: FCC ID: FCC Rules:	TR-82N Beltpack 614-698MHz B5DM531 Radio Frequency Radiation Exposure Limits 47 CFR 1.1310 MPE - Mobiles <u>X</u>	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



July 9, 2008 p0840023, d0870007

Federal Communications Commission Via: Electronic Filing

p0840023, d0870007	Authorization & Evaluation Division	
p0840023 p0840023 p0840023 p0840023	Telex Communications, Inc. TR-82N Beltpack 614-698MHz B5DM531 Radio Frequency Radiation Exposure Limits 47 CFR 1.1310 MPE - Mobiles <u>X</u>	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,

now

Hoosamuddin S. Bandukwala, Lab Director



http://www.flomlabs.com

# **Environmental Assessment**

for

### Mobiles

for

## FCC ID: FCC ID: B5DM531

#### Model:TR-82N Beltpack 614-698MHz

to

## **Federal Communications Commission**

## 47 CFR 1.1310

## Radio Frequency Radiation Exposure Limits

## Date Of Report: July 9, 2008

	On the Behalf of the Applicant:	Telex Communications, Inc.
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At the Request of:

Attention of:

Lincoln, NE 68505-5579 Charles E. Conner, Project Engineer (402) 467-5321; FAX: -3279

Telex Communications, Inc. 8601 E. Cornhusker Highway

P.O. Box 5579

E-mail: charlie.conner@us.telex.com Jim Andersen Email: jim.andersen@us.telex.com

Hoosamuddin S. Bandukwala, Lab Director

Supervised By:

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



## **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.

Hoosamuddin S. Bandukwala, Lab Director

Certifying Engineer:



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Required information per ISO 17025-2005, paragraph 5.10:

a)	Test Report (Supplemental)
b) Laboratory: (FCC: 31040/SIT) (Canada: IC 2044)	Flom Test Labs 3356 N. San Marcos Place, Suite 107 Chandler, AZ 85225
c) Report Number:	d0870007
d) Client:	Telex Communications, Inc. 8601 E. Cornhusker Highway P.O. Box 5579 Lincoln, NE 68505-5579
e) Identification:	TR-82N Beltpack 614-698MHz FCC ID: B5DM531
Description:	Wireless Mic Belt pack (3 units to cover frequency range- Low, Mid, Hi)
f) EUT Condition:	Not required unless specified in individual tests.
g) Report Date:	July 9, 2008
h, j, k):	As indicated in individual tests.
i) Sampling method:	No sampling procedure used.
I) Uncertainty:	In accordance with MFA internal quality manual.
m) Supervised by:	formali
	Hoosamuddin S. Bandukwala, Lab Director

n) Results:

o) Reproduction:

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

The results presented in this report relate only to the item tested.



## Identification of the Equipment Under Test (EUT)

Name and Address of Applicant:	Telex Communications, Inc. 8601 E. Cornhusker Highway P.O. Box 5579 Lincoln, NE 68505-5579	
Manufacturer:	Telex Communications, Inc. 8601 E. Cornhusker Highway P.O. Box 5579 Lincoln, NE 68505-5579	
FCC ID:	B5DM531	
Model Number:	TR-82N Beltpack 614-698MHz	
Description:	Wireless Mic Belt pack (3 units to cover frequency range- Low, Mid, Hi)	
Type of Emission:	25K0F3E	
Frequency Range, MHz:	614 to 698	
Power Rating, Watts: Switchable	131 mW Variable N/A	
<b>Modulation</b> :	AMPS TDMA CDMA OTHER	
Antenna:	Lefter Helical X 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.



## <u>A2LA</u>

"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 <u>www.a2la.org</u> for current scope of accreditation.

Certificate number: 2152.01





## **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.



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: 300-1500 MHz 1500-100,000 MHz:	Limit $[mW/cm^{2}] = 100$ Limit $[mW/cm^{2}] = (180/f^{2})$ Limit $[mW/cm^{2}] = 0.2$ Limit $[mW/cm^{2}] = f/1500$ Limit $[mW/cm^{2}] = 1.0$
Test Frequencies, MHz Power, Conducted, W (P) Antenna Gain Isotropic Antenna Gain Numeric (G) Antenna Type Distance (R)	668 131 mW 1.5 dBi 1.41 monopole 20 cm	
Power Density Calculations	Formula = Power Density (S) = Limit =	S = PG / 4πR <sup>2</sup> 0.0367 0.445

Hoosamuddin S. Bandukwala, Lab Director

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