

*FCC PART 15, SUBPART B and C*  
*TEST REPORT*  
*for*  
**PEDESTRIAN TRANSMITTER**  
**MODEL: PT-1**

Prepared for

**COPAR CORPORATION**  
**5744 WEST 77<sup>TH</sup> STREET**  
**BURBANK, ILLINOIS 60459-1305**

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**BREA, CALIFORNIA 92823**  
**(714) 579-0500**

DATE: OCTOBER 18, 2004

|       | REPORT<br>BODY | APPENDICES |          |          |          |          | TOTAL     |
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## GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product endorsement by NVLAP, NIST or any other agency of the U.S. Government.

Device Tested: Pedestrian Transmitter  
Model: PT-1  
S/N: N/A

Product Description: See Expository Statement

Modifications: The EUT was not modified in order to meet the specifications.

Manufacturer: Copar Corporation  
5744 West 77<sup>th</sup> Street  
Burbank, Illinois 60459-1305

Test Dates: October 11, 12, and 29, 2004

Test Specifications: EMI requirements  
CFR Title 47, Part 15 Subpart B; and Subpart C, Sections 15.205, 15.209 and 15.249

Test Procedure: ANSI C63.4: 2003

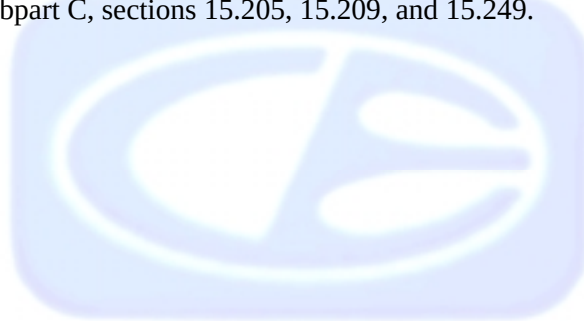
Test Deviations: The test procedure was not deviated from during the testing.

## SUMMARY OF TEST RESULTS

| TEST | DESCRIPTION                              | RESULTS                                                                                                                          |
|------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 1    | Radiated RF Emissions, 10 kHz - 9300 MHz | Complies with the <b>Class B</b> limits of CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.249. |

## 1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Pedestrian Transmitter Model: PT-1. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 2003. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.249.



## 2. ADMINISTRATIVE DATA

### 2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California 92823.

### 2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

### 2.3 Cognizant Personnel

Copar Corporation

Al Ingle                      President

Compatible Electronics, Inc.

Kyle Fujimoto              Test Engineer  
Michael Christensen      Lab Manager

### 2.4 Date Test Sample was Received

The test sample was received on October 11, 2004

### 2.5 Disposition of the Test Sample

The sample has not yet been returned to Copar Corporation as of October 29, 2004.

### 2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

|      |                                      |
|------|--------------------------------------|
| RF   | Radio Frequency                      |
| EMI  | Electromagnetic Interference         |
| EUT  | Equipment Under Test                 |
| P/N  | Part Number                          |
| S/N  | Serial Number                        |
| HP   | Hewlett Packard                      |
| ITE  | Information Technology Equipment     |
| CML  | Corrected Meter Limit                |
| LISN | Line Impedance Stabilization Network |

### 3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

| SPEC                     | TITLE                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| CFR Title 47,<br>Part 15 | FCC Rules – Radio frequency devices (including digital devices)                                                                      |
| ANSI C63.4<br>2003       | Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz |

#### **4. DESCRIPTION OF TEST CONFIGURATION**

##### **4.1 Description Of Test Configuration - EMI**

Setup and operation of the equipment under test.

Specifics of the EUT and Peripherals Tested

The Pedestrian Transmitter Model: PT-1 (EUT) was tested as a stand alone unit and tested in three orthogonal axis. The EUT was continuously transmitting. The antenna is soldered onto the EUT's PCB.

Since the EUT is user adjustable by having the end user take the front cover off the EUT and adjust the output with a potentiometer, the radiated emissions were taken with the EUT at the minimum and maximum power outputs.

The final radiated as well as the conducted data were taken in the modes above. Please see Appendix E for the data sheets.



#### **4.1.1 Cable Construction and Termination**

There were no external cables connected to the EUT.



**5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT****5.1 EUT and Accessory List**

| EQUIPMENT                       | MANUFACTURER         | MODEL NUMBER | SERIAL NUMBER | FCC ID |
|---------------------------------|----------------------|--------------|---------------|--------|
| PEDESTRIAN<br>TRANSMITTER (EUT) | COPAR<br>CORPORATION | PT-1         | N/A           | SMOPT1 |

**5.2 EMI Test Equipment**

| <b>EQUIPMENT TYPE</b>               | <b>MANU-FACTURER</b> | <b>MODEL NUMBER</b> | <b>SERIAL NUMBER</b> | <b>CAL. DATE</b>  | <b>CAL. CYCLE</b> |
|-------------------------------------|----------------------|---------------------|----------------------|-------------------|-------------------|
| Spectrum Analyzer – Main Section    | Hewlett Packard      | 8566B               | 3638A08768           | June 24, 2004     | 1 Year            |
| Spectrum Analyzer – Display Section | Hewlett Packard      | 85662A              | 3701A22262           | June 24, 2004     | 1 Year            |
| Quasi-Peak Adapter                  | Hewlett Packard      | 85650A              | 2811A01363           | June 24, 2004     | 1 Year            |
| EMI Receiver                        | Rhode & Schwarz      | ESIB40              | 100194               | November 24, 2003 | 1 Year            |
| Preamplifier                        | Com-Power            | PA-102              | 1017                 | January 6, 2004   | 1 Year            |
| Biconical Antenna                   | Com Power            | AB-900              | 15227                | April 21, 2004    | 1 Year            |
| Log Periodic Antenna                | Com Power            | AL-100              | 16203                | February 18, 2004 | 1 Year            |
| Antenna Mast                        | Com-Power            | AM-100              | N/A                  | N/A               | N/A               |
| Turntable                           | Com-Power            | TT-100              | N/A                  | N/A               | N/A               |
| Computer                            | Hewlett Packard      | 4530                | US91912319           | N/A               | N/A               |
| Monitor                             | Hewlett Packard      | D5258A              | TW74500641           | N/A               | N/A               |
| Loop Antenna                        | Com-Power            | AL-130              | 17089                | September 3, 2004 | 1 Year            |
| Horn Antenna                        | Antenna Research     | DRG-118/A           | 1053                 | January 16, 2004  | 1 Year            |
| Microwave Preamplifier              | Com-Power            | PA-122              | 25195                | August 19, 2004   | 1 Year            |

**5.3 EMI Test Equipment (Continued)**

| <b>EQUIPMENT TYPE</b>                  | <b>MANU-FACTURER</b>   | <b>MODEL NUMBER</b> | <b>SERIAL NUMBER</b> | <b>CAL. DATE</b>  | <b>CAL. CYCLE</b> |
|----------------------------------------|------------------------|---------------------|----------------------|-------------------|-------------------|
| Radiate Emissions Data Capture Program | Compatible Electronics | 2.0                 | N/A                  | N/A               | N/A               |
| Spectrum Analyzer – Main Section       | Hewlett Packard        | 8566B               | 3638A08784           | June 16, 2004     | 1 Year            |
| Spectrum Analyzer – Display Section    | Hewlett Packard        | 85662A              | 3701A22279           | June 16, 2004     | 1 Year            |
| Quasi-Peak Adapter                     | Hewlett Packard        | 85650A              | 2430A00424           | June 16, 2004     | 1 Year            |
| Preamplifier                           | Com Power              | PA-103              | 1582                 | March 11, 2004    | 1 Year            |
| Biconical Antenna                      | Com Power              | AB-900              | 15226                | April 21, 2004    | 1 Year            |
| Log Periodic Antenna                   | Com Power              | AL-100              | 16202                | February 18, 2004 | 1 Year            |
| Antenna Mast                           | Com-Power              | AM-100              | N/A                  | N/A               | N/A               |
| Turntable                              | Com-Power              | TT-100              | N/A                  | N/A               | N/A               |
| Computer                               | Hewlett Packard        | 4530                | US91912319           | N/A               | N/A               |
| Monitor                                | Hewlett Packard        | D5258A              | TW74500641           | N/A               | N/A               |

**6. TEST SITE DESCRIPTION****6.1 Test Facility Description**

Please refer to section 2.1 and 7.1 of this report for EMI test location.

**6.2 EUT Mounting, Bonding and Grounding**

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was not grounded.

## 7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.



## 7.1 Radiated Emissions (Spurious and Harmonics) Test

The spectrum analyzer was used as a measuring meter along with the quasi-peak adapter. Amplifiers were used to increase the sensitivity of the instrument. The Com-Power Preamplifier Model: PA-102 was used for frequencies from 30 MHz to 1 GHz, and the Com-Power Microwave Preamplifier Model: PA-122 was used for frequencies from 1 GHz to 18 GHz. The spectrum analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps.

The measurement bandwidths and transducers used for the radiated emissions test were:

| FREQUENCY RANGE   | EFFECTIVE MEASUREMENT BANDWIDTH | TRANSDUCER           |
|-------------------|---------------------------------|----------------------|
| 9 kHz to 150 kHz  | 200 Hz                          | Active Loop Antenna  |
| 150 kHz to 30 MHz | 9 kHz                           | Active Loop Antenna  |
| 30 MHz to 300 MHz | 120 kHz                         | Biconical Antenna    |
| 300 MHz to 1 GHz  | 120 kHz                         | Log Periodic Antenna |
| 1 GHz to 9.3 GHz  | 1 MHz                           | Horn Antenna         |

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4: 2003. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results. The loop antenna was also rotated in the horizontal and vertical axis in order to ensure accurate results.

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance to obtain final test data. The final qualification data sheets are located in Appendix E.

### Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.249.

## 8. CONCLUSIONS

The Pedestrian Transmitter Model: PT-1 meets all of the **Class B** specification limits defined in CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.249.







**APPENDIX A**

***LABORATORY RECOGNITIONS***

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## ***LABORATORY RECOGNITIONS***

### **Compatible Electronics has the following agency accreditations:**

National Voluntary Laboratory Accreditation Program - Lab Code: 200528-0

Voluntary Control Council for Interference - Registration Numbers: R-983, C-1026, R-984 and C-1027

Bureau of Standards and Metrology Inspection - Reference Number: SL2-IN-E-1031

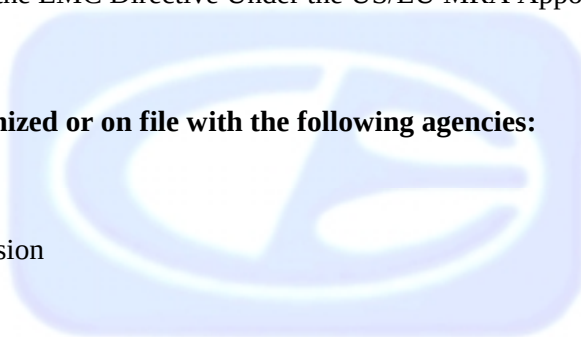
Conformity Assessment Body for the EMC Directive Under the US/EU MRA Appointed by NIST

### **Compatible Electronics is recognized or on file with the following agencies:**

Federal Communications Commission

Industry Canada

Radio-Frequency Technologies (Competent Body)





**APPENDIX B**

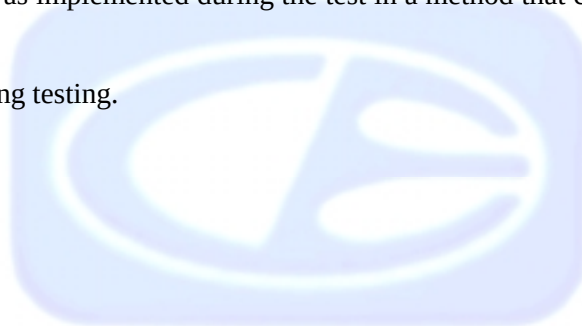
***MODIFICATIONS TO THE EUT***

## MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.249 or FCC Class B specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

No modifications were made during testing.





**APPENDIX C**

***ADDITIONAL MODELS COVERED  
UNDER THIS REPORT***

## **ADDITIONAL MODELS COVERED UNDER THIS REPORT**

USED FOR THE PRIMARY TEST

Pedestrian Transmitter  
Model: PT-1  
S/N: N/A

There were no additional models covered under this report.



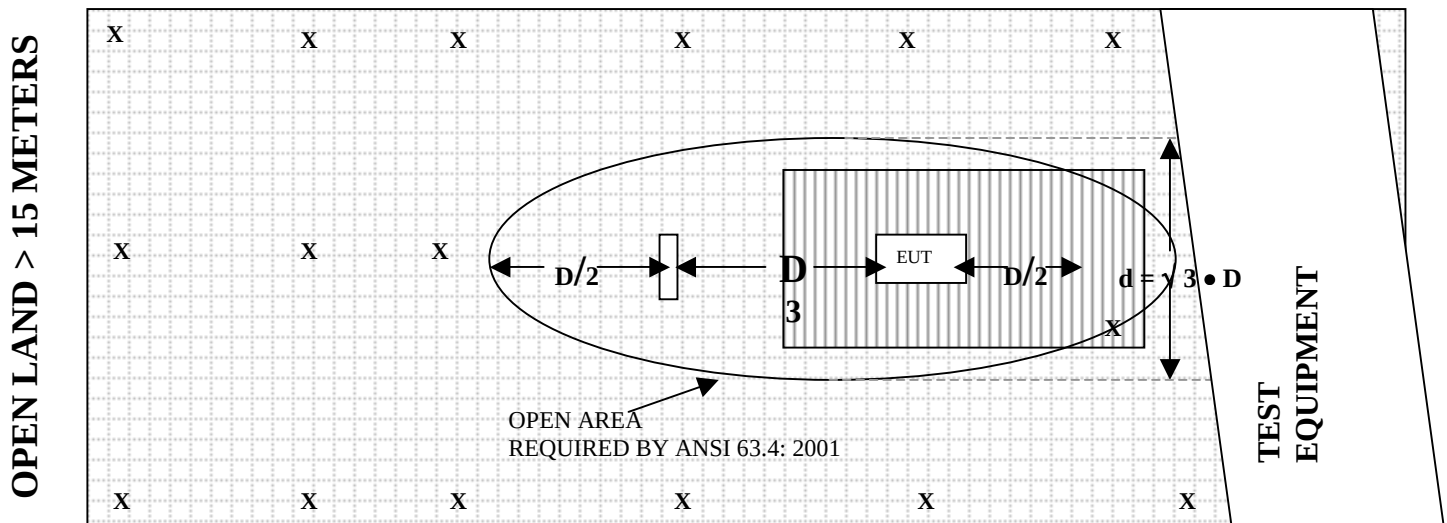


**APPENDIX D**

***DIAGRAMS, CHARTS, AND PHOTOS***

## FIGURE 1: PLOT MAP AND LAYOUT OF RADIATED SITE

### OPEN LAND > 15 METERS



### OPEN LAND > 15 METERS

|   |                          |                                                                                     |                 |
|---|--------------------------|-------------------------------------------------------------------------------------|-----------------|
| X | = GROUND RODS            |  | = GROUND SCREEN |
| D | = TEST DISTANCE (meters) |  | = WOOD COVER    |



COM-POWER AB-900

BICONICAL ANTENNA

S/N: 15227

CALIBRATION DATE: APRIL 21, 2004

| FREQUENCY<br>(MHz) | FACTOR<br>(dB) | FREQUENCY<br>(MHz) | FACTOR<br>(dB) |
|--------------------|----------------|--------------------|----------------|
| 30                 | 11.20          | 120                | 12.50          |
| 35                 | 10.90          | 125                | 12.90          |
| 40                 | 11.40          | 140                | 12.40          |
| 45                 | 8.90           | 150                | 12.10          |
| 50                 | 11.40          | 160                | 12.40          |
| 60                 | 10.30          | 175                | 15.80          |
| 70                 | 8.20           | 180                | 15.70          |
| 80                 | 6.00           | 200                | 17.40          |
| 90                 | 7.60           | 250                | 14.60          |
| 100                | 10.50          | 300                | 19.50          |

COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16203

CALIBRATION DATE: FEBRUARY 18, 2004

| FREQUENCY<br>(MHz) | FACTOR<br>(dB) | FREQUENCY<br>(MHz) | FACTOR<br>(dB) |
|--------------------|----------------|--------------------|----------------|
| 300                | 13.00          | 700                | 19.40          |
| 400                | 15.10          | 800                | 21.30          |
| 500                | 16.70          | 900                | 20.70          |
| 600                | 18.70          | 1000               | 22.60          |

**COM-POWER PA-102****PREAMPLIFIER**

S/N: 1017

CALIBRATION DATE: JANUARY 6, 2004

| <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 30                         | 37.8                   | 300                        | 37.6                   |
| 40                         | 37.5                   | 350                        | 37.5                   |
| 50                         | 37.7                   | 400                        | 37.5                   |
| 60                         | 37.5                   | 450                        | 37.0                   |
| 70                         | 37.5                   | 500                        | 37.1                   |
| 80                         | 37.5                   | 550                        | 37.3                   |
| 90                         | 37.5                   | 600                        | 37.1                   |
| 100                        | 37.5                   | 650                        | 37.4                   |
| 125                        | 37.8                   | 700                        | 37.1                   |
| 150                        | 37.5                   | 750                        | 37.1                   |
| 175                        | 37.5                   | 800                        | 36.8                   |
| 200                        | 37.6                   | 850                        | 36.2                   |
| 225                        | 37.6                   | 900                        | 36.7                   |
| 250                        | 37.5                   | 950                        | 36.2                   |
| 275                        | 37.6                   | 1000                       | 35.3                   |

**COM-POWER PA-122****MICROWAVE PREAMPLIFIER**

S/N: 25195

CALIBRATION DATE: AUGUST 19, 2004

| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 1.0                        | 30.50                  | 6.0                        | 30.57                  |
| 1.1                        | 30.24                  | 6.5                        | 30.39                  |
| 1.2                        | 30.44                  | 7.0                        | 30.08                  |
| 1.3                        | 30.38                  | 7.5                        | 29.92                  |
| 1.4                        | 30.11                  | 8.0                        | 28.88                  |
| 1.5                        | 29.91                  | 8.5                        | 28.08                  |
| 1.6                        | 29.74                  | 9.0                        | 28.08                  |
| 1.7                        | 30.26                  | 9.5                        | 29.11                  |
| 1.8                        | 30.41                  | 10.0                       | 30.21                  |
| 1.9                        | 30.19                  | 11.0                       | 29.00                  |
| 2.0                        | 30.37                  | 12.0                       | 29.10                  |
| 2.5                        | 30.69                  | 13.0                       | 29.77                  |
| 3.0                        | 31.63                  | 14.0                       | 28.67                  |
| 3.5                        | 31.61                  | 15.0                       | 29.72                  |
| 4.0                        | 31.46                  | 16.0                       | 30.54                  |
| 4.5                        | 31.45                  | 17.0                       | 30.05                  |
| 5.0                        | 31.33                  | 18.0                       | 28.47                  |
| 5.5                        | 31.15                  |                            |                        |

**ANTENNA RESEARCH DRG-118/A****HORN ANTENNA**

S/N: 1053

CALIBRATION DATE: JANUARY 16, 2004

| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 1.0                        | 24.4                   | 10.0                       | 38.7                   |
| 1.5                        | 25.2                   | 10.5                       | 39.0                   |
| 2.0                        | 28.2                   | 11.0                       | 38.9                   |
| 2.5                        | 28.5                   | 11.5                       | 41.3                   |
| 3.0                        | 30.1                   | 12.0                       | 40.5                   |
| 3.5                        | 31.0                   | 12.5                       | 40.0                   |
| 4.0                        | 31.2                   | 13.0                       | 40.2                   |
| 4.5                        | 31.9                   | 13.5                       | 40.5                   |
| 5.0                        | 33.2                   | 14.0                       | 41.6                   |
| 5.5                        | 33.7                   | 14.5                       | 44.8                   |
| 6.0                        | 34.3                   | 15.0                       | 41.4                   |
| 6.5                        | 35.0                   | 15.5                       | 39.2                   |
| 7.0                        | 36.7                   | 16.0                       | 39.4                   |
| 7.5                        | 37.3                   | 16.5                       | 40.9                   |
| 8.0                        | 37.1                   | 17.0                       | 42.6                   |
| 8.5                        | 37.3                   | 17.5                       | 45.1                   |
| 9.0                        | 37.7                   | 18.0                       | 41.7                   |
| 9.5                        | 38.6                   |                            |                        |

**COM-POWER AL-130****LOOP ANTENNA**

S/N: 17089

CALIBRATION DATE: SEPTEMBER 3, 2004

| <b>FREQUENCY<br/>(MHz)</b> | <b>MAGNETIC<br/>(dB/m)</b> | <b>ELECTRIC<br/>(dB/m)</b> |
|----------------------------|----------------------------|----------------------------|
| 0.009                      | -40.8                      | 10.7                       |
| 0.01                       | -40.9                      | 10.6                       |
| 0.02                       | -41.8                      | 9.7                        |
| 0.05                       | -42.0                      | 9.5                        |
| 0.07                       | -41.5                      | 10.0                       |
| 0.1                        | -41.7                      | 9.8                        |
| 0.2                        | -44.1                      | 7.4                        |
| 0.3                        | -41.6                      | 9.9                        |
| 0.5                        | -41.5                      | 10.0                       |
| 0.7                        | -41.4                      | 10.1                       |
| 1                          | -41.0                      | 10.5                       |
| 2                          | -40.6                      | 10.9                       |
| 3                          | -40.8                      | 10.7                       |
| 4                          | -41.0                      | 10.5                       |
| 5                          | -40.4                      | 11.1                       |
| 10                         | -40.7                      | 10.8                       |
| 15                         | -41.6                      | 9.9                        |
| 20                         | -41.3                      | 10.2                       |
| 25                         | -43.0                      | 8.5                        |
| 30                         | -42.6                      | 8.9                        |

COM-POWER AB-900

BICONICAL ANTENNA

S/N: 15226

CALIBRATION DATE: APRIL 21, 2004

| FREQUENCY<br>(MHz) | FACTOR<br>(dB) | FREQUENCY<br>(MHz) | FACTOR<br>(dB) |
|--------------------|----------------|--------------------|----------------|
| 30                 | 11.00          | 120                | 13.20          |
| 35                 | 10.80          | 125                | 13.30          |
| 40                 | 11.20          | 140                | 12.50          |
| 45                 | 9.00           | 150                | 12.10          |
| 50                 | 11.40          | 160                | 12.80          |
| 60                 | 10.30          | 175                | 15.60          |
| 70                 | 8.10           | 180                | 15.70          |
| 80                 | 5.80           | 200                | 16.40          |
| 90                 | 7.80           | 250                | 14.90          |
| 100                | 11.10          | 300                | 24.60          |

COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16202

CALIBRATION DATE: FEBRUARY 18, 2004

| FREQUENCY<br>(MHz) | FACTOR<br>(dB) | FREQUENCY<br>(MHz) | FACTOR<br>(dB) |
|--------------------|----------------|--------------------|----------------|
| 300                | 12.90          | 700                | 19.60          |
| 400                | 14.40          | 800                | 21.80          |
| 500                | 17.40          | 900                | 20.50          |
| 600                | 18.90          | 1000               | 22.70          |

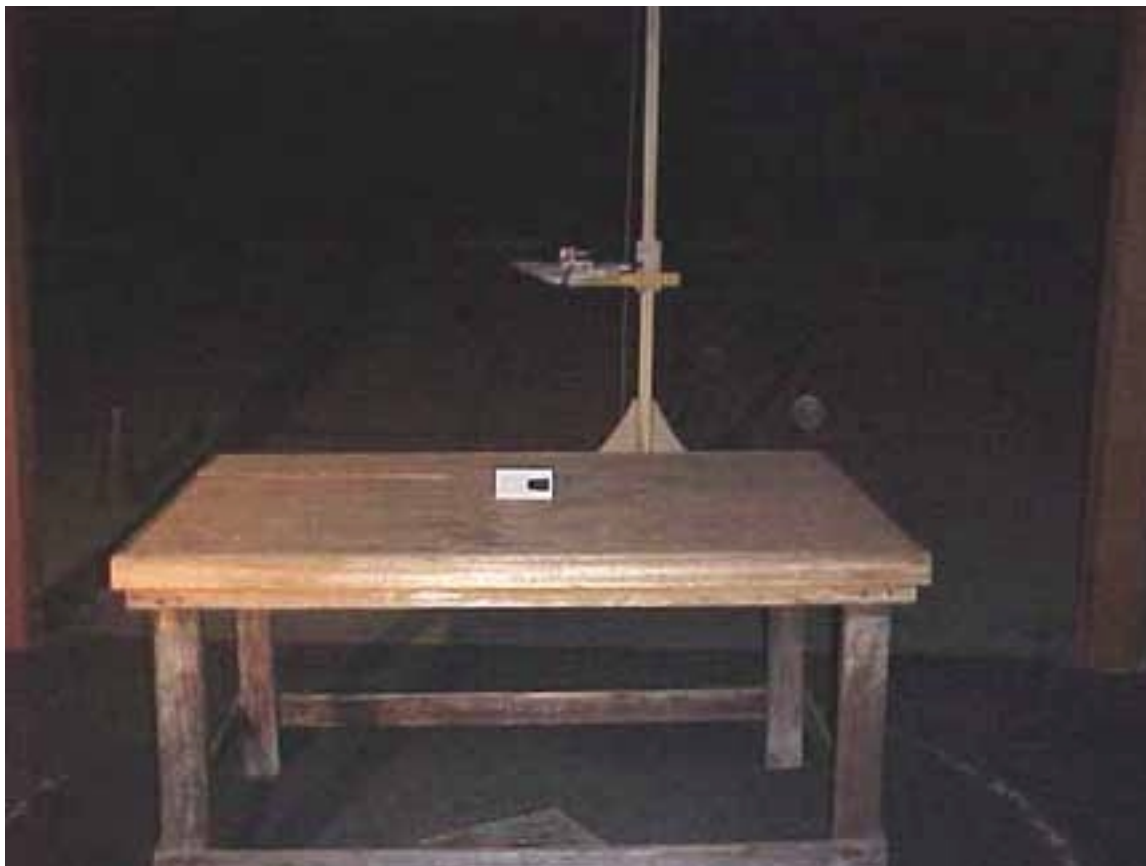


**COM-POWER PA-103****PREAMPLIFIER**

S/N: 1582

CALIBRATION DATE: MARCH 11, 2004

| <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 30                         | 32.4                   | 300                        | 32.3                   |
| 40                         | 32.4                   | 350                        | 32.2                   |
| 50                         | 32.4                   | 400                        | 32.2                   |
| 60                         | 32.5                   | 450                        | 32.0                   |
| 70                         | 32.4                   | 500                        | 32.0                   |
| 80                         | 32.3                   | 550                        | 31.8                   |
| 90                         | 32.3                   | 600                        | 31.7                   |
| 100                        | 32.3                   | 650                        | 31.7                   |
| 125                        | 32.4                   | 700                        | 31.7                   |
| 150                        | 32.2                   | 750                        | 31.9                   |
| 175                        | 32.4                   | 800                        | 31.4                   |
| 200                        | 32.4                   | 850                        | 31.4                   |
| 225                        | 32.5                   | 900                        | 31.0                   |
| 250                        | 32.3                   | 950                        | 31.4                   |
| 275                        | 32.1                   | 1000                       | 31.4                   |



**FRONT VIEW**

COPAR CORPORATION  
PEDESTRIAN TRANSMITTER  
MODEL: PT-1

MAXIMUM POWER – BELOW 1 GHz  
FCC SUBPART B AND FCC SUBPART C – RADIATED EMISSIONS – 10-11-04

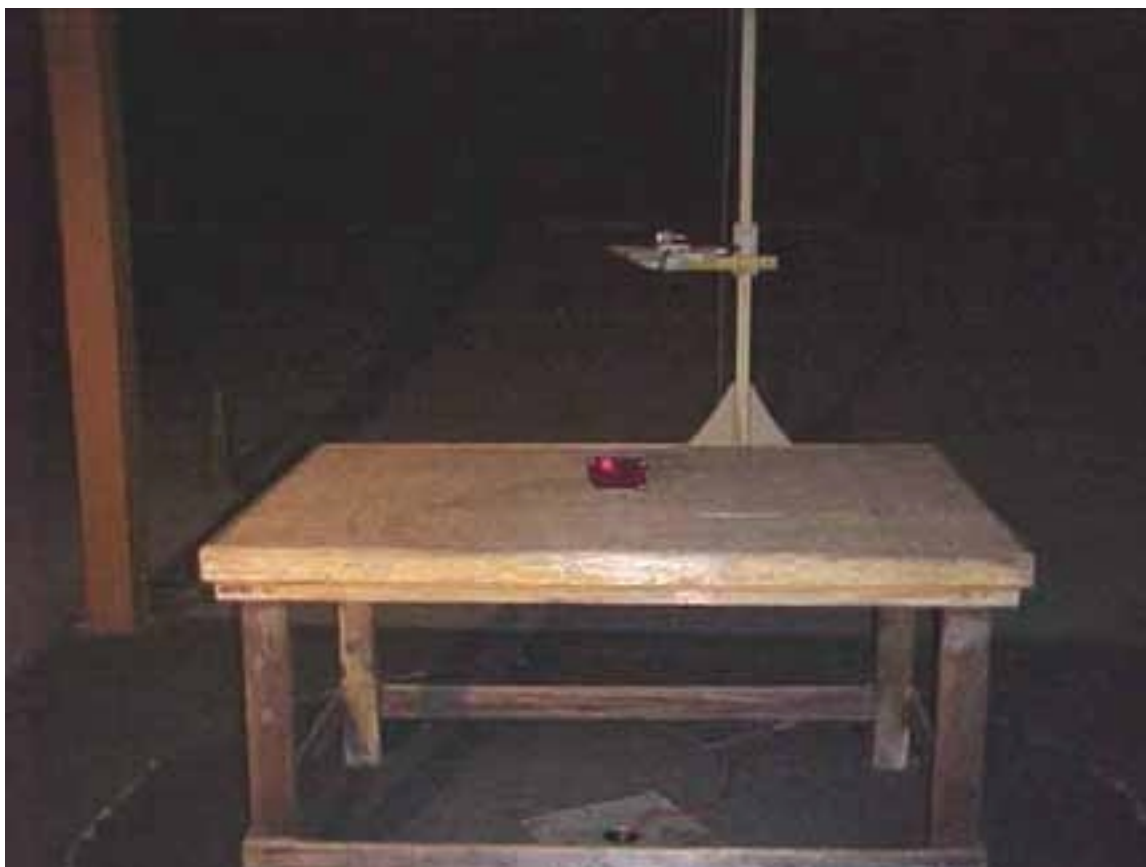
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

**Brea Division**  
114 Olinda Drive  
Brea, CA 92823  
(714) 579-0500

**Agoura Division**  
2337 Troutdale Drive  
Agoura, CA 91301  
(818) 597-0600

**Silverado Division**  
19121 El Toro Road  
Silverado, CA 92676  
(949) 589-0700

**Lake Forest Division**  
20621 Pascal Way  
Lake Forest, CA 92630  
(949) 587-0400



**REAR VIEW**

COPAR CORPORATION  
PEDESTRIAN TRANSMITTER  
MODEL: PT-1

MAXIMUM POWER – BELOW 1 GHz  
FCC SUBPART B AND FCC SUBPART C – RADIATED EMISSIONS – 10-11-04

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FOR MAXIMUM EMISSIONS**

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**FRONT VIEW**

COPAR CORPORATION  
PEDESTRIAN TRANSMITTER  
MODEL: PT-1

MAXIMUM POWER – ABOVE 1 GHz  
FCC SUBPART B AND FCC SUBPART C – RADIATED EMISSIONS – 10-11-04

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

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**REAR VIEW**

COPAR CORPORATION  
PEDESTRIAN TRANSMITTER  
MODEL: PT-1

MAXIMUM POWER – ABOVE 1 GHz  
FCC SUBPART B AND FCC SUBPART C – RADIATED EMISSIONS – 10-11-04

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**FRONT VIEW**

COPAR CORPORATION  
PEDESTRIAN TRANSMITTER  
MODEL: PT-1

MINIMUM POWER – ABOVE 1 GHz  
FCC SUBPART B AND FCC SUBPART C – RADIATED EMISSIONS – 10-29-04

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

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**REAR VIEW**

COPAR CORPORATION  
PEDESTRIAN TRANSMITTER  
MODEL: PT-1

MINIMUM POWER – BELOW 1 GHz  
FCC SUBPART B AND FCC SUBPART C – RADIATED EMISSIONS – 10-29-04

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

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**FRONT VIEW**

COPAR CORPORATION  
PEDESTRIAN TRANSMITTER  
MODEL: PT-1

MINIMUM POWER – ABOVE 1 GHz  
FCC SUBPART B AND FCC SUBPART C – RADIATED EMISSIONS – 10-29-04

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

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**REAR VIEW**

COPAR CORPORATION  
PEDESTRIAN TRANSMITTER  
MODEL: PT-1

MINIMUM POWER – ABOVE 1 GHz  
FCC SUBPART B AND FCC SUBPART C – RADIATED EMISSIONS – 10-29-04

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

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**APPENDIX E**

***DATA SHEETS***

***RADIATED EMISSIONS***

***DATA SHEETS***

**FCC 15.249**

COPAR Corp.

Date: 10/11/04

Pedestrian Transmitter

Lab: B

Model: PT-1

Tested By: Benigno Chavez

S/N: N/A

Configuration -- Continuous Transmit Mode - Maximum Output

**Y - Axis****Fundamental**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|----------|
| 916.5          | 85.84           | V         | 114   | -28.16 | Peak                  | 1                     | 180                     |          |
| 916.5          | 85.84           | V         | 94    | -8.16  | Peak                  | 1                     | 180                     |          |
|                |                 |           |       |        |                       |                       |                         |          |
| 916.5          | 80.14           | H         | 114   | -33.86 | Peak                  | 1                     | 180                     |          |
| 916.5          | 80.14           | H         | 94    | -13.86 | Peak                  | 1                     | 180                     |          |
|                |                 |           |       |        |                       |                       |                         |          |
|                |                 |           |       |        |                       |                       |                         |          |

**FCC 15.249**

COPAR Corp.

Date: 10/11/04

Pedestrian Transmitter

Lab: B

Model: PT-1

Tested By: Benigno Chavez

S/N: N/A

Configuration -- Continuous Transmit Mode - Maximum Output

**X - Axis****Fundamental**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|----------|
| 916.5          | 86.64           | V         | 114   | -27.36 | Peak                  | 1.5                   | 180                     |          |
| 916.5          | 86.64           | V         | 94    | -7.36  | Peak                  | 1.5                   | 180                     |          |
|                |                 |           |       |        |                       |                       |                         |          |
| 916.5          | 92.34           | H         | 114   | -21.66 | Peak                  | 1                     | 90                      |          |
| 916.5          | 91.31           | H         | 94    | -2.69  | QP                    | 1                     | 90                      |          |
|                |                 |           |       |        |                       |                       |                         |          |
|                |                 |           |       |        |                       |                       |                         |          |

**FCC 15.249**

COPAR Corp.

Date: 10/11/04

Pedestrian Transmitter

Lab: B

Model: PT-1

Tested By: Benigno Chavez

S/N: N/A

Configuration -- Continuous Transmit Mode - Maximum Output

**Z - Axis****Fundamental**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|----------|
| 916.5          | 87.54           | V         | 114   | -26.46 | Peak                  | 1.5                   | 180                     |          |
| 916.5          | 87.54           | V         | 94    | -6.46  | Peak                  | 1.5                   | 180                     |          |
|                |                 |           |       |        |                       |                       |                         |          |
| 916.5          | 93.24           | H         | 114   | -20.76 | Peak                  | 1                     | 90                      |          |
| 916.5          | 92.45           | H         | 94    | -1.55  | QP                    | 1                     | 90                      |          |
|                |                 |           |       |        |                       |                       |                         |          |
|                |                 |           |       |        |                       |                       |                         |          |

**FCC 15.249**

COPAR Corp.

Date: 10/11/04

Pedestrian Transmitter

Lab: B

Model: PT-1

Tested By: Benigno Chavez

S/N: N/A

Configuration -- Continuous Transmit Mode - Maximum Output

**X - Axis**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 1833           | 48.95           | V         | 74    | -25.05 | Peak                  | 3.75                  | 180                     |             |
| 1833           | 46.45           | V         | 54    | -7.55  | Avg                   | 3.75                  | 180                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 2749.5         | 51.81           | V         | 74    | -22.19 | Peak                  | 2.5                   | 225                     |             |
| 2749.5         | 49.31           | V         | 54    | -4.69  | Avg                   | 2.5                   | 225                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 3666           | 52.89           | V         | 74    | -21.11 | Peak                  | 3.25                  | 180                     |             |
| 3666           | 50.39           | V         | 54    | -3.61  | Avg                   | 3.25                  | 180                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4582.5         | 51.08           | V         | 74    | -22.92 | Peak                  | 2.5                   | 135                     |             |
| 4582.5         | 48.58           | V         | 54    | -5.42  | Avg                   | 2.5                   | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 5499           | 44.84           | V         | 74    | -29.16 | Peak                  | 2.75                  | 270                     |             |
| 5499           | 42.34           | V         | 54    | -11.66 | Avg                   | 2.75                  | 270                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 6415.5         |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 6415.5         |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
| 7332           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 7332           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
| 8248.5         |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 8248.5         |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
| 9165           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 9165           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |

**FCC 15.249**

COPAR Corp.

Pedestrian Transmitter

Model: PT-1

S/N: N/A

Configuration -- Continuous Transmit Mode - Maximum Output

**X - Axis**

Date: 10/11/04

Lab: B

Tested By: Benigno Chavez

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 1833           | 49.85           | H         | 74    | -24.15 | Peak                  | 1.25                  | 270                     |             |
| 1833           | 47.35           | H         | 54    | -6.65  | Avg                   | 1.25                  | 270                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 2749.5         | 54.37           | H         | 74    | -19.63 | Peak                  | 3                     | 315                     |             |
| 2749.5         | 51.87           | H         | 54    | -2.13  | Avg                   | 3                     | 315                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 3666           | 53.69           | H         | 74    | -20.31 | Peak                  | 2.5                   | 45                      |             |
| 3666           | 51.19           | H         | 54    | -2.81  | Avg                   | 2.5                   | 45                      |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4582.5         | 55.4            | H         | 74    | -18.6  | Peak                  | 2.75                  | 90                      |             |
| 4582.5         | 52.9            | H         | 54    | -1.1   | Avg                   | 2.75                  | 90                      |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 5499           | 45.61           | H         | 74    | -28.39 | Peak                  | 1.75                  | 225                     |             |
| 5499           | 43.11           | H         | 54    | -10.89 | Avg                   | 1.75                  | 225                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 6415.5         |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 6415.5         |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
| 7332           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 7332           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
| 8248.5         |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 8248.5         |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
| 9165           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 9165           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |



**FCC 15.249**

COPAR Corp.

Date: 10/11/04

Pedestrian Transmitter

Lab: B

Model: PT-1

Tested By: Benigno Chavez

S/N: N/A

Configuration -- Continuous Transmit Mode - Maximum Output

**Y - Axis**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 1833           | 52.34           | V         | 74    | -21.66 | Peak                  | 1.25                  | 225                     |             |
| 1833           | 49.84           | V         | 54    | -4.16  | Avg                   | 1.25                  | 225                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 2749.5         | 50.17           | V         | 74    | -23.83 | Peak                  | 3.25                  | 315                     |             |
| 2749.5         | 47.67           | V         | 54    | -6.33  | Avg                   | 3.25                  | 315                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 3666           | 52.26           | V         | 74    | -21.74 | Peak                  | 3.25                  | 135                     |             |
| 3666           | 49.76           | V         | 54    | -4.24  | Avg                   | 3.25                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4582.5         | 52.81           | V         | 74    | -21.19 | Peak                  | 2                     | 45                      |             |
| 4582.5         | 50.31           | V         | 54    | -3.69  | Avg                   | 2                     | 45                      |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 5499           | 45.31           | V         | 74    | -28.69 | Peak                  | 2.5                   | 180                     |             |
| 5499           | 42.81           | V         | 54    | -11.19 | Avg                   | 2.5                   | 180                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 6415.5         |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 6415.5         |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
| 7332           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 7332           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
| 8248.5         |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 8248.5         |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
| 9165           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 9165           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |

**FCC 15.249**

COPAR Corp.

Date: 10/11/04

Pedestrian Transmitter

Lab: B

Model: PT-1

Tested By: Benigno Chavez

S/N: N/A

Configuration -- Continuous Transmit Mode - Maximum Output

**Z - Axis**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 1833           | 51.26           | V         | 74    | -22.74 | Peak                  | 2.25                  | 90                      |             |
| 1833           | 48.76           | V         | 54    | -5.24  | Avg                   | 2.25                  | 90                      |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 2749.5         | 54.43           | V         | 74    | -19.57 | Peak                  | 1.25                  | 180                     |             |
| 2749.5         | 51.93           | V         | 54    | -2.07  | Avg                   | 1.25                  | 180                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 3666           | 50.83           | V         | 74    | -23.17 | Peak                  | 1.25                  | 45                      |             |
| 3666           | 48.33           | V         | 54    | -5.67  | Avg                   | 1.25                  | 45                      |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4582.5         | 51.8            | V         | 74    | -22.2  | Peak                  | 1.75                  | 225                     |             |
| 4582.5         | 49.3            | V         | 54    | -4.7   | Avg                   | 1.75                  | 225                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 5499           | 44.68           | V         | 74    | -29.32 | Peak                  | 2                     | 180                     |             |
| 5499           | 42.18           | V         | 54    | -11.82 | Avg                   | 2                     | 180                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 6415.5         |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 6415.5         |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
| 7332           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 7332           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
| 8248.5         |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 8248.5         |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
| 9165           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 9165           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |

**FCC 15.249**

COPAR Corp.

Pedestrian Transmitter

Model: PT-1

S/N: N/A

Configuration -- Continuous Transmit Mode - Maximum Output

**Y - Axis**

Date: 10/11/04

Lab: B

Tested By: Benigno Chavez

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 1833           | 47.64           | H         | 74    | -26.36 | Peak                  | 1.75                  | 45                      |             |
| 1833           | 45.14           | H         | 54    | -8.86  | Avg                   | 1.75                  | 45                      |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 2749.5         | 55.83           | H         | 74    | -18.17 | Peak                  | 3                     | 180                     |             |
| 2749.5         | 53.33           | H         | 54    | -0.67  | Avg                   | 3                     | 180                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 3666           | 51.6            | H         | 74    | -22.4  | Peak                  | 3                     | 135                     |             |
| 3666           | 49.1            | H         | 54    | -4.9   | Avg                   | 3                     | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4582.5         | 54.37           | H         | 74    | -19.63 | Peak                  | 2                     | 90                      |             |
| 4582.5         | 51.87           | H         | 54    | -2.13  | Avg                   | 2                     | 90                      |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 5499           | 46.06           | H         | 74    | -27.94 | Peak                  | 2.25                  | 180                     |             |
| 5499           | 43.56           | H         | 54    | -10.44 | Avg                   | 2.25                  | 180                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 6415.5         |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 6415.5         |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
| 7332           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 7332           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
| 8248.5         |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 8248.5         |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
| 9165           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 9165           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |

**FCC 15.249**

COPAR Corp.

Pedestrian Transmitter

Model: PT-1

S/N: N/A

Configuration -- Continuous Transmit Mode - Maximum Output

**Z - Axis**

Date: 10/11/04

Lab: B

Tested By: Benigno Chavez

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 1833           | 49.12           | H         | 74    | -24.88 | Peak                  | 2.5                   | 180                     |             |
| 1833           | 46.62           | H         | 54    | -7.38  | Avg                   | 2.5                   | 180                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 2749.5         | 49.77           | H         | 74    | -24.23 | Peak                  | 3                     | 135                     |             |
| 2749.5         | 47.27           | H         | 54    | -6.73  | Avg                   | 3                     | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 3666           | 52.41           | H         | 74    | -21.59 | Peak                  | 2.5                   | 225                     |             |
| 3666           | 49.91           | H         | 54    | -4.09  | Avg                   | 2.5                   | 225                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4582.5         | 56.35           | H         | 74    | -17.65 | Peak                  | 2.5                   | 45                      |             |
| 4582.5         | 53.85           | H         | 54    | -0.15  | Avg                   | 2.5                   | 45                      |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 5499           | 45.58           | H         | 74    | -28.42 | Peak                  | 2                     | 225                     |             |
| 5499           | 43.08           | H         | 54    | -10.92 | Avg                   | 2                     | 225                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 6415.5         |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 6415.5         |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
| 7332           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 7332           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
| 8248.5         |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 8248.5         |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
| 9165           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 9165           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |

**FCC 15.249**

COPAR Corp.  
Pedestrian Transmitter  
Model: PT-1  
S/N: N/A

Date: 10/11/04  
Lab: B  
Tested By: Benigno Chavez

Configuration -- Continuous Transmit Mode - Maximum Output

**Digital Portion Above 1 GHz**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
|                |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
|                |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |
|                |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
|                |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
|                |                 |           |       |        |                       |                       |                         |             |

**FCC 15.249**

COPAR Corp.  
Pedestrian Transmitter  
Model: PT-1  
S/N: N/A

Date: 10/29/04  
Lab: B  
Tested By: Kyle Fujimoto

Configuration -- Continuous Transmit Mode - Minimum Output

**X - Axis**

**Fundamental**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|----------|
| 916.5          | 35.59           | V         | 114   | -78.41 | Peak                  | 1.5                   | 180                     |          |
|                |                 |           |       |        |                       |                       |                         |          |
|                |                 |           |       |        |                       |                       |                         |          |
| 916.5          | 40.56           | H         | 114   | -73.44 | Peak                  | 1                     | 90                      |          |
|                |                 |           |       |        |                       |                       |                         |          |
|                |                 |           |       |        |                       |                       |                         |          |

**FCC 15.249**

COPAR Corp.  
Pedestrian Transmitter  
Model: PT-1  
S/N: N/A

Date: 10/29/04  
Lab: B  
Tested By: Kyle Fujimoto

Configuration -- Continuous Transmit Mode - Minimum Output

**Y - Axis**

**Fundamental**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|----------|
| 916.5          | 41.26           | V         | 114   | -72.74 | Peak                  | 1                     | 180                     |          |
|                |                 |           |       |        |                       |                       |                         |          |
|                |                 |           |       |        |                       |                       |                         |          |
| 916.5          | 33.25           | H         | 114   | -80.75 | Peak                  | 1                     | 180                     |          |
|                |                 |           |       |        |                       |                       |                         |          |
|                |                 |           |       |        |                       |                       |                         |          |
|                |                 |           |       |        |                       |                       |                         |          |

**FCC 15.249**

COPAR Corp.  
Pedestrian Transmitter  
Model: PT-1  
S/N: N/A

Date: 10/29/04  
Lab: B  
Tested By: Kyle Fujimoto

Configuration -- Continuous Transmit Mode - Minimum Output

**Z - Axis**

**Fundamental**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|----------|
| 916.5          | 33.29           | V         | 114   | -80.71 | Peak                  | 1.5                   | 180                     |          |
|                |                 |           |       |        |                       |                       |                         |          |
|                |                 |           |       |        |                       |                       |                         |          |
| 916.5          | 40.25           | H         | 114   | -73.75 | Peak                  | 1                     | 90                      |          |
|                |                 |           |       |        |                       |                       |                         |          |
|                |                 |           |       |        |                       |                       |                         |          |



**FCC 15.249**

COPAR Corp.

Pedestrian Transmitter

Model: PT-1

S/N: N/A

Configuration -- Continuous Transmit Mode - Minimum Output

**X - Axis**

Date: 10/29/04

Lab: B

Tested By: Kyle Fujimoto

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 1833           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 1833           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 2749.5         |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 2749.5         |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 3666           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 3666           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 4582.5         |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 4582.5         |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 5499           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 5499           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 6415.5         |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 6415.5         |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 7332           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 7332           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 8248.5         |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 8248.5         |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 9165           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 9165           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |

**FCC 15.249**

COPAR Corp.

Pedestrian Transmitter

Model: PT-1

S/N: N/A

Configuration -- Continuous Transmit Mode - Minimum Output

**Y - Axis**

Date: 10/29/04

Lab: B

Tested By: Kyle Fujimoto

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 1833           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 1833           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 2749.5         |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 2749.5         |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 3666           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 3666           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 4582.5         |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 4582.5         |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 5499           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 5499           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 6415.5         |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 6415.5         |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 7332           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 7332           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 8248.5         |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 8248.5         |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 9165           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 9165           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |

**FCC 15.249**

COPAR Corp.

Pedestrian Transmitter

Model: PT-1

S/N: N/A

Configuration -- Continuous Transmit Mode - Minimum Output

**Z - Axis**

Date: 10/29/04

Lab: B

Tested By: Kyle Fujimoto

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 1833           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 1833           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 2749.5         |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 2749.5         |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 3666           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 3666           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 4582.5         |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 4582.5         |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 5499           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 5499           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 6415.5         |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 6415.5         |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 7332           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 7332           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 8248.5         |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 8248.5         |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 9165           |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 9165           |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED    |

**FCC 15.249**

COPAR Corp.

Pedestrian Transmitter

Model: PT-1

S/N: N/A

Configuration -- Continuous Transmit Mode - Minimum Output

**X - Axis**

Date: 10/29/04

Lab: B

Tested By: Kyle Fujimoto

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 1833           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 1833           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 2749.5         |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 2749.5         |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 3666           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 3666           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 4582.5         |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 4582.5         |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 5499           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 5499           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 6415.5         |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 6415.5         |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 7332           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 7332           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 8248.5         |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 8248.5         |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 9165           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 9165           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |

**FCC 15.249**

COPAR Corp.

Pedestrian Transmitter

Model: PT-1

S/N: N/A

Configuration -- Continuous Transmit Mode - Minimum Output

**Y - Axis**

Date: 10/29/04

Lab: B

Tested By: Kyle Fujimoto

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 1833           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 1833           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 2749.5         |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 2749.5         |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 3666           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 3666           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 4582.5         |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 4582.5         |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 5499           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 5499           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 6415.5         |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 6415.5         |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 7332           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 7332           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 8248.5         |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 8248.5         |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 9165           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 9165           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |

**FCC 15.249**

COPAR Corp.

Pedestrian Transmitter

Model: PT-1

S/N: N/A

Configuration -- Continuous Transmit Mode - Minimum Output

**Z - Axis**

Date: 10/29/04

Lab: B

Tested By: Kyle Fujimoto

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 1833           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 1833           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 2749.5         |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 2749.5         |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 3666           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 3666           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 4582.5         |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 4582.5         |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 5499           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 5499           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 6415.5         |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 6415.5         |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 7332           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 7332           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 8248.5         |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 8248.5         |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |
| 9165           |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION |
| 9165           |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED    |

**FCC 15.249**

COPAR Corp.  
Pedestrian Transmitter  
Model: PT-1  
S/N: N/A

Date: 10/29/04  
Lab: B  
Tested By: Kyle Fujimoto

Configuration -- Continuous Transmit Mode - Minimum Output

**Digital Portion 10 kHz to 9200 MHz**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments                      |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------------------------|
|                |                 | V         | 74    | -74    | Peak                  |                       |                         | NO EMISSION                   |
|                |                 | V         | 54    | -54    | Avg                   |                       |                         | DETECTED - 10 kHz to 9200 MHz |
|                |                 |           |       |        |                       |                       |                         |                               |
|                |                 | H         | 74    | -74    | Peak                  |                       |                         | NO EMISSION                   |
|                |                 | H         | 54    | -54    | Avg                   |                       |                         | DETECTED - 10 kHz to 9200 MHz |
|                |                 |           |       |        |                       |                       |                         |                               |