

*FCC PART 15, SUBPART B and C  
TEST REPORT**for***INDUSTRIAL REMOTE****MODEL: 1000**

Prepared for

**FIREFLY, INC.**  
1101 MAIN STREET SUITE 104, PMB 143  
EVANSTON, WYOMING 82930Prepared by: *Kyle Fujimoto***KYLE FUJIMOTO**Approved by: *Michael P. Christensen***MICHAEL CHRISTENSEN****COMPATIBLE ELECTRONICS INC.**  
114 OLINDA DRIVE  
BREA, CALIFORNIA 92823  
(714) 579-0500

DATE: JANUARY 28, 2003

|       | 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 or any other agency of the U.S. Government.

Device Tested: Industrial Remote  
Model: 1000  
S/N: N/A

Product Description: See Expository Statement.

Modifications: The EUT was not modified during the testing.

Manufacturer: Firefly, Inc.  
1101 Main Street Suite 104, PMB 143  
Evanston, Wyoming 82930

Test Date: December 12, 2002

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: 1992

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

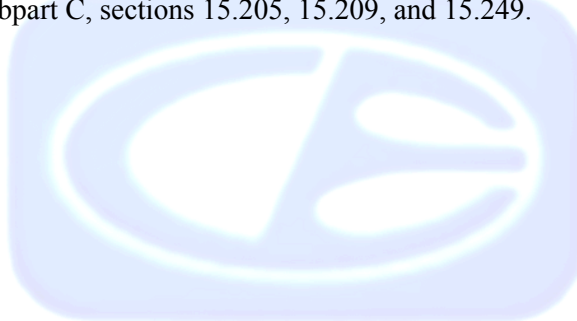
## SUMMARY OF TEST RESULTS

| TEST | DESCRIPTION                              | RESULTS                                                                                                                          |
|------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 1    | Conducted RF Emissions, 450 kHz - 30 MHz | This test was not performed because the EUT operates on DC power only and cannot be plugged into the AC public mains.            |
| 2    | 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 Industrial Remote Model: 1000. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 1992. 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**

Firefly, Inc.

Alfred J. Morin II      Vice President

Compatible Electronics, Inc.

Kyle Fujimoto      Test Engineer

Michael Christensen      Test Engineer

### **2.4 Date Test Sample was Received**

The test sample was received on December 12, 2002.

### **2.5 Disposition of the Test Sample**

The sample was returned to Firefly, Inc. on January 2, 2003.

### **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>1992       | 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 Industrial Remote Model: 1000 (EUT) was tested as a stand alone unit in three orthogonal axis and was continuously transmitting. The antenna is soldered onto the PCB of the EUT.

The final radiated data was taken in the mode above. Please see Appendix E for the data sheets.



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

There are no external cables connected to the EUT.



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

| EQUIPMENT                  | MANUFACTURER  | MODEL<br>NUMBER | SERIAL<br>NUMBER | FCC ID  |
|----------------------------|---------------|-----------------|------------------|---------|
| INDUSTRIAL REMOTE<br>(EUT) | FIREFLY, INC. | 1000            | N/A              | QTE1000 |



**5.2 EMI Test Equipment**

| <b>EQUIPMENT<br/>TYPE</b>                       | <b>MANU-<br/>FACTURER</b> | <b>MODEL<br/>NUMBER</b> | <b>SERIAL<br/>NUMBER</b> | <b>CAL. DATE</b> | <b>CAL. DUE<br/>DATE</b> |
|-------------------------------------------------|---------------------------|-------------------------|--------------------------|------------------|--------------------------|
| Radiated Emissions<br>Manual Test –<br>Radiated | Compatible<br>Electronics | N/A                     | N/A                      | N/A              | N/A                      |
| Spectrum Analyzer –<br>Main Section             | Hewlett Packard           | 8566B                   | 3638A08784               | June 14, 2002    | June 14, 2003            |
| Spectrum Analyzer –<br>Display Section          | Hewlett Packard           | 85662A                  | 3701A22279               | June 14, 2002    | June 14, 2003            |
| Spectrum Analyzer –<br>Quasi-Peak Adapter       | Hewlett Packard           | 85650A                  | 2430A00424               | June 14, 2002    | June 14, 2003            |
| Preamplifier                                    | Com Power                 | PA-102                  | 1017                     | Dec. 31, 2001    | Dec. 31, 2002            |
| Biconical Antenna                               | Com Power                 | AB-100                  | 1548                     | Sept. 19, 2002   | Sept. 19, 2003           |
| Log Periodic Antenna                            | Com Power                 | AL-100                  | 16089                    | Oct. 4, 2002     | Oct. 4, 2003             |
| Computer                                        | Hewlett Packard           | D5251A 888              | US74458128               | N/A              | N/A                      |
| Printer                                         | Hewlett Packard           | C5886A                  | SG7CM1P090               | N/A              | N/A                      |
| Monitor                                         | Hewlett Packard           | D5258A                  | DK74889705               | N/A              | N/A                      |
| Loop Antenna                                    | Com-Power                 | AL-130                  | 17070                    | June 19, 2002    | June 19, 2003            |
| Horn Antenna                                    | Antenna Research          | DRG-118/A               | 1053                     | Jan. 13, 2002    | Jan. 13, 2003            |
| Microwave<br>Preamplifier                       | Com-Power                 | PA-122                  | 25195                    | Jan. 7, 2002     | Jan. 7, 2003             |



**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 above 1 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: 1992. 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.



**Radiated Emissions (Spurious and Harmonics) Test (con't)**

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.



## 8. CONCLUSIONS

The Industrial Remote Model: 1000 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***

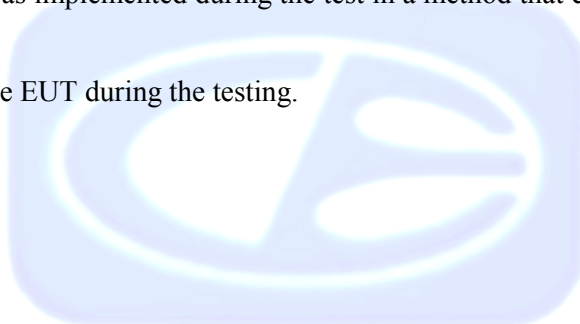


## MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.249 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 to the EUT during the testing.





**APPENDIX C**

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



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

USED FOR THE PRIMARY TEST

Industrial Remote  
Model: 1000  
S/N: N/A

There were no additional models covered under this report.



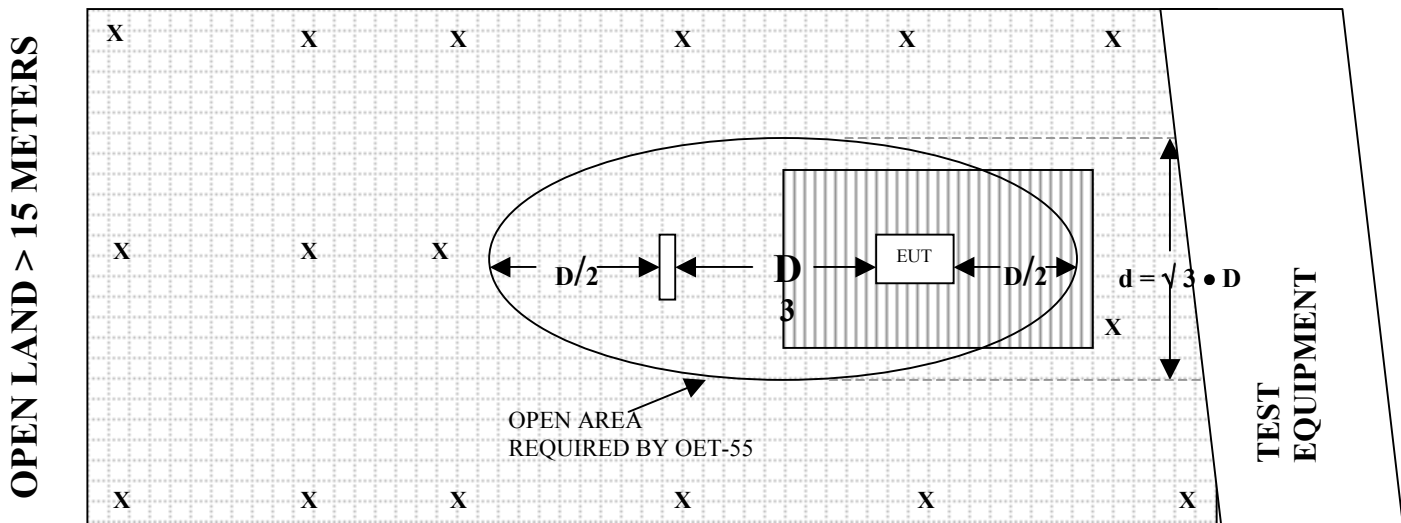
**APPENDIX D**

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



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

## OPEN LAND > 15 METERS



## OPEN LAND > 15 METERS

|          |                          |                                                                                     |                 |
|----------|--------------------------|-------------------------------------------------------------------------------------|-----------------|
| <b>X</b> | = GROUND RODS            |  | = GROUND SCREEN |
| <b>D</b> | = TEST DISTANCE (meters) |  | = WOOD COVER    |



COM-POWER AB-100

BICONICAL ANTENNA

S/N: 01548

CALIBRATION DATE: SEPTEMBER 19, 2002

| FREQUENCY<br>(MHz) | FACTOR<br>(dB) | FREQUENCY<br>(MHz) | FACTOR<br>(dB) |
|--------------------|----------------|--------------------|----------------|
| 30                 | 14.30          | 120                | 10.70          |
| 35                 | 14.00          | 125                | 11.40          |
| 40                 | 13.70          | 140                | 12.70          |
| 45                 | 12.00          | 150                | 12.50          |
| 50                 | 11.40          | 160                | 12.90          |
| 60                 | 9.70           | 175                | 14.10          |
| 70                 | 8.30           | 180                | 14.70          |
| 80                 | 7.60           | 200                | 15.10          |
| 90                 | 7.80           | 250                | 16.90          |
| 100                | 8.60           | 300                | 19.10          |



COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16089

CALIBRATION DATE: OCTOBER 4, 2002

| FREQUENCY<br>(MHz) | FACTOR<br>(dB) | FREQUENCY<br>(MHz) | FACTOR<br>(dB) |
|--------------------|----------------|--------------------|----------------|
| 300                | 13.10          | 700                | 17.70          |
| 350                | 14.40          | 750                | 19.60          |
| 400                | 14.30          | 800                | 20.50          |
| 450                | 15.70          | 850                | 21.20          |
| 500                | 16.60          | 900                | 21.20          |
| 550                | 16.60          | 950                | 22.50          |
| 600                | 17.30          | 1000               | 24.60          |
| 650                | 18.80          |                    |                |



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

S/N: 1017

CALIBRATION DATE: DECEMBER 31, 2001

| <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 30                         | 38.5                   | 300                        | 38.5                   |
| 40                         | 38.5                   | 350                        | 38.4                   |
| 50                         | 38.5                   | 400                        | 38.2                   |
| 60                         | 38.5                   | 450                        | 37.8                   |
| 70                         | 38.5                   | 500                        | 38.0                   |
| 80                         | 38.5                   | 550                        | 38.2                   |
| 90                         | 38.3                   | 600                        | 38.2                   |
| 100                        | 38.3                   | 650                        | 38.0                   |
| 125                        | 38.6                   | 700                        | 38.1                   |
| 150                        | 38.5                   | 750                        | 37.7                   |
| 175                        | 38.4                   | 800                        | 37.4                   |
| 200                        | 38.5                   | 850                        | 37.9                   |
| 225                        | 38.5                   | 900                        | 37.2                   |
| 250                        | 38.4                   | 950                        | 36.8                   |
| 275                        | 38.4                   | 1000                       | 37.3                   |

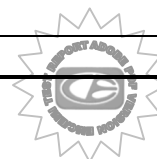


**COM-POWER PA-122****MICROWAVE PREAMPLIFIER**

S/N: 25195

CALIBRATION DATE: JANUARY 7, 2002

| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 1.0                        | 33.7                   | 9.5                        | 31.8                   |
| 1.1                        | 33.4                   | 10.0                       | 32.2                   |
| 1.2                        | 33.1                   | 11.0                       | 31.4                   |
| 1.3                        | 33.1                   | 12.0                       | 30.2                   |
| 1.4                        | 33.2                   | 13.0                       | 32.9                   |
| 1.5                        | 32.5                   | 14.0                       | 33.9                   |
| 1.6                        | 32.7                   | 15.0                       | 32.4                   |
| 1.7                        | 32.3                   | 16.0                       | 32.2                   |
| 1.8                        | 32.3                   | 17.0                       | 31.5                   |
| 1.9                        | 31.4                   | 18.0                       | 32.2                   |
| 2.0                        | 32.8                   | 19.0                       | 31.2                   |
| 2.5                        | 33.3                   | 20.0                       | 31.3                   |
| 3.0                        | 31.7                   | 21.0                       | 31.7                   |
| 3.5                        | 31.6                   | 22.0                       | 29.7                   |
| 4.0                        | 31.2                   |                            |                        |
| 4.5                        | 31.2                   |                            |                        |
| 5.0                        | 31.0                   |                            |                        |
| 5.5                        | 31.3                   |                            |                        |
| 6.0                        | 32.1                   |                            |                        |
| 6.5                        | 32.1                   |                            |                        |
| 7.0                        | 31.8                   |                            |                        |
| 7.5                        | 32.0                   |                            |                        |
| 8.0                        | 33.1                   |                            |                        |
| 8.5                        | 32.0                   |                            |                        |
| 9.0                        | 30.8                   |                            |                        |



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

S/N: 1053

CALIBRATION DATE: JANUARY 13, 2002

| FREQUENCY (GHz) | FACTOR (dB) | FREQUENCY (GHz) | FACTOR (dB) |
|-----------------|-------------|-----------------|-------------|
| 1.0             | 25.5        | 9.5             | 39.1        |
| 1.5             | 26.6        | 10.0            | 39.7        |
| 2.0             | 29.4        | 10.5            | 40.9        |
| 2.5             | 30.4        | 11.0            | 40.7        |
| 3.0             | 31.2        | 11.5            | 42.4        |
| 3.5             | 32.3        | 12.0            | 42.6        |
| 4.0             | 32.9        | 12.5            | 42.4        |
| 4.5             | 33.0        | 13.0            | 41.5        |
| 5.0             | 34.8        | 13.5            | 41.0        |
| 5.5             | 35.2        | 14.0            | 40.5        |
| 6.0             | 36.4        | 14.5            | 43.6        |
| 6.5             | 36.6        | 15.0            | 43.7        |
| 7.0             | 38.8        | 15.5            | 43.3        |
| 7.5             | 38.8        | 16.0            | 42.8        |
| 8.0             | 38.0        | 16.5            | 43.0        |
| 8.5             | 38.1        | 17.0            | 42.7        |
| 9.0             | 39.9        | 17.5            | 44.0        |
|                 |             | 18.0            | 41.8        |



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

S/N: 17070

CALIBRATION DATE: JUNE 19, 2002

| <b>FREQUENCY<br/>(MHz)</b> | <b>MAGNETIC<br/>(dB/m)</b> | <b>ELECTRIC<br/>(dB/m)</b> |
|----------------------------|----------------------------|----------------------------|
| 0.009                      | -40.4                      | 11.1                       |
| 0.01                       | -40.3                      | 11.2                       |
| 0.02                       | -41.2                      | 10.3                       |
| 0.05                       | -41.6                      | 9.9                        |
| 0.07                       | -41.4                      | 10.1                       |
| 0.1                        | -41.7                      | 9.8                        |
| 0.2                        | -44.0                      | 7.5                        |
| 0.3                        | -41.6                      | 9.9                        |
| 0.5                        | -41.3                      | 10.2                       |
| 0.7                        | -41.4                      | 10.1                       |
| 1                          | -40.9                      | 10.6                       |
| 2                          | -40.6                      | 10.9                       |
| 3                          | -40.5                      | 11.0                       |
| 4                          | -40.8                      | 10.7                       |
| 5                          | -40.2                      | 11.3                       |
| 10                         | -40.7                      | 10.8                       |
| 15                         | -41.4                      | 10.1                       |
| 20                         | -41.6                      | 9.9                        |
| 25                         | -41.7                      | 9.8                        |
| 30                         | -42.9                      | 8.6                        |





**FRONT VIEW**

FIREFLY, INC.  
INDUSTRIAL REMOTE  
MODEL: 1000

FCC SUBPART B AND C - RADIATED EMISSIONS – 12-12-02

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





**REAR VIEW**

FIREFLY, INC.  
INDUSTRIAL REMOTE  
MODEL: 1000

FCC SUBPART B AND C - RADIATED EMISSIONS – 12-12-02

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





**APPENDIX E**

***DATA SHEETS***



## RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

|               |                   |             |          |
|---------------|-------------------|-------------|----------|
| COMPANY       | FIREFLY, INC.     | DATE        | 12/12/02 |
| EUT           | INDUSTRIAL REMOTE | DUTY CYCLE  | N/A %    |
| MODEL         | 1000              | PEAK TO AVG | N/A dB   |
| S/N           | N/A               | TEST DIST.  | 3 Meters |
| TEST ENGINEER | KYLE FUJIMOTO     | LAB         | D        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | Distance<br>Factor<br>(dB) | Mixer<br>Factor<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|----------------------------|-------------------------|-----------------------------------|---------------------|---------------------------|----------|
| 916.5000         | 67.4                      | 67.0 QP                               | H                             | 1.0                           | 180                         | X                      | LOW                  | 21.4                      | 5.3                   | 0.0                       | 0.0                        | 0.0                     | 93.7                              | -0.3                | 94.0                      |          |
| 916.5000         | 57.4                      | QP                                    | H                             | 1.0                           | 180                         | Y                      | LOW                  | 21.4                      | 5.3                   | 0.0                       | 0.0                        | 0.0                     | 84.1                              | -9.9                | 94.0                      |          |
| 916.5000         | 67.0                      | 66.6 QP                               | H                             | 1.0                           | 180                         | Z                      | LOW                  | 21.4                      | 5.3                   | 0.0                       | 0.0                        | 0.0                     | 93.3                              | -0.7                | 94.0                      |          |
| 916.5000         | 49.0                      | QP                                    | V                             | 1.0                           | 180                         | X                      | LOW                  | 21.4                      | 5.3                   | 0.0                       | 0.0                        | 0.0                     | 75.7                              | -18.3               | 94.0                      |          |
| 916.5000         | 67.1                      | 66.5 QP                               | V                             | 1.0                           | 180                         | Y                      | LOW                  | 21.4                      | 5.3                   | 0.0                       | 0.0                        | 0.0                     | 93.2                              | -0.8                | 94.0                      |          |
| 916.5000         | 61.3                      | QP                                    | V                             | 1.0                           | 180                         | Z                      | LOW                  | 21.4                      | 5.3                   | 0.0                       | 0.0                        | 0.0                     | 88.0                              | -6.0                | 94.0                      |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN  
 \*\* DELTA = SPEC LIMIT - CORRECTED READING

## RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

|               |                   |             |          |
|---------------|-------------------|-------------|----------|
| COMPANY       | FIREFLY, INC.     | DATE        | 12/12/02 |
| EUT           | INDUSTRIAL REMOTE | DUTY CYCLE  | N/A %    |
| MODEL         | 1000              | PEAK TO AVG | N/A dB   |
| S/N           | N/A               | TEST DIST.  | 3 Meters |
| TEST ENGINEER | KYLE FUJIMOTO     | LAB         | D        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | Distance<br>Factor<br>(dB) | Mixer<br>Factor<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|----------------------------|-------------------------|-----------------------------------|---------------------|---------------------------|----------|
| 1833.0000        | 51.0                      | A                                     | H                             | 1.0                           | 270                         | X                      | LOW                  | 28.5                      | 3.4                   | 32.0                      | 0.0                        | 0.0                     | 50.9                              | -3.1                | 54.0                      |          |
| 1833.0000        | 45.0                      | A                                     | H                             | 1.0                           | 180                         | Y                      | LOW                  | 28.5                      | 3.4                   | 32.0                      | 0.0                        | 0.0                     | 44.9                              | -9.1                | 54.0                      |          |
| 1833.0000        | 49.2                      | A                                     | H                             | 1.0                           | 180                         | Z                      | LOW                  | 28.5                      | 3.4                   | 32.0                      | 0.0                        | 0.0                     | 49.1                              | -4.9                | 54.0                      |          |
| 1833.0000        | 49.3                      | A                                     | V                             | 1.0                           | 180                         | X                      | LOW                  | 28.5                      | 3.4                   | 32.0                      | 0.0                        | 0.0                     | 49.2                              | -4.8                | 54.0                      |          |
| 1833.0000        | 50.6                      | A                                     | V                             | 1.0                           | 180                         | Y                      | LOW                  | 28.5                      | 3.4                   | 32.0                      | 0.0                        | 0.0                     | 50.5                              | -3.5                | 54.0                      |          |
| 1833.0000        | 46.1                      | A                                     | V                             | 1.0                           | 180                         | Z                      | LOW                  | 28.5                      | 3.4                   | 32.0                      | 0.0                        | 0.0                     | 46.0                              | -8.0                | 54.0                      |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN  
 \*\* DELTA = SPEC LIMIT - CORRECTED READING

## RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

|               |                   |             |          |
|---------------|-------------------|-------------|----------|
| COMPANY       | FIREFLY, INC.     | DATE        | 12/12/02 |
| EUT           | INDUSTRIAL REMOTE | DUTY CYCLE  | N/A %    |
| MODEL         | 1000              | PEAK TO AVG | N/A dB   |
| S/N           | N/A               | TEST DIST.  | 3 Meters |
| TEST ENGINEER | KYLE FUJIMOTO     | LAB         | D        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | Distance<br>Factor<br>(dB) | Mixer<br>Factor<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|----------------------------|-------------------------|-----------------------------------|---------------------|---------------------------|----------|
| 2749.5000        | 39.2                      | A                                     | H                             | 1.0                           | 180                         | X                      | LOW                  | 30.8                      | 4.3                   | 32.5                      | 0.0                        | 0.0                     | 41.8                              | -12.2               | 54.0                      |          |
| 2749.5000        | 37.5                      | A                                     | H                             | 1.0                           | 180                         | Y                      | LOW                  | 30.8                      | 4.3                   | 32.5                      | 0.0                        | 0.0                     | 40.1                              | -13.9               | 54.0                      |          |
| 2749.5000        | 39.1                      | A                                     | H                             | 1.0                           | 180                         | Z                      | LOW                  | 30.8                      | 4.3                   | 32.5                      | 0.0                        | 0.0                     | 41.7                              | -12.3               | 54.0                      |          |
| 2749.5000        | 40.1                      | A                                     | V                             | 1.0                           | 180                         | X                      | LOW                  | 30.8                      | 4.3                   | 32.5                      | 0.0                        | 0.0                     | 42.7                              | -11.3               | 54.0                      |          |
| 2749.5000        | 41.7                      | A                                     | V                             | 1.0                           | 180                         | Y                      | LOW                  | 30.8                      | 4.3                   | 32.5                      | 0.0                        | 0.0                     | 44.3                              | -9.7                | 54.0                      |          |
| 2749.5000        | 40.4                      | A                                     | V                             | 1.0                           | 180                         | Z                      | LOW                  | 30.8                      | 4.3                   | 32.5                      | 0.0                        | 0.0                     | 43.0                              | -11.0               | 54.0                      |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN  
 \*\* DELTA = SPEC LIMIT - CORRECTED READING

## RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

|               |                   |             |          |
|---------------|-------------------|-------------|----------|
| COMPANY       | FIREFLY, INC.     | DATE        | 12/12/02 |
| EUT           | INDUSTRIAL REMOTE | DUTY CYCLE  | N/A %    |
| MODEL         | 1000              | PEAK TO AVG | N/A dB   |
| S/N           | N/A               | TEST DIST.  | 3 Meters |
| TEST ENGINEER | KYLE FUJIMOTO     | LAB         | D        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | Distance<br>Factor<br>(dB) | Mixer<br>Factor<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|----------------------------|-------------------------|-----------------------------------|---------------------|---------------------------|----------|
| 3666.0000        | 34.5                      | A                                     | H                             | 1.0                           | 180                         | X                      | LOW                  | 32.5                      | 5.1                   | 31.5                      | 0.0                        | 0.0                     | 40.7                              | -13.3               | 54.0                      |          |
| 3666.0000        | 39.8                      | A                                     | H                             | 1.0                           | 180                         | Y                      | LOW                  | 32.5                      | 5.1                   | 31.5                      | 0.0                        | 0.0                     | 46.0                              | -8.0                | 54.0                      |          |
| 3666.0000        | 36.7                      | A                                     | H                             | 1.0                           | 180                         | Z                      | LOW                  | 32.5                      | 5.1                   | 31.5                      | 0.0                        | 0.0                     | 42.9                              | -11.1               | 54.0                      |          |
| 3666.0000        | 40.6                      | A                                     | V                             | 1.0                           | 180                         | X                      | LOW                  | 32.5                      | 5.1                   | 31.5                      | 0.0                        | 0.0                     | 46.8                              | -7.2                | 54.0                      |          |
| 3666.0000        | 41.1                      | A                                     | V                             | 1.0                           | 180                         | Y                      | LOW                  | 32.5                      | 5.1                   | 31.5                      | 0.0                        | 0.0                     | 47.3                              | -6.7                | 54.0                      |          |
| 3666.0000        | 37.3                      | A                                     | V                             | 1.0                           | 180                         | Z                      | LOW                  | 32.5                      | 5.1                   | 31.5                      | 0.0                        | 0.0                     | 43.5                              | -10.5               | 54.0                      |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN  
 \*\* DELTA = SPEC LIMIT - CORRECTED READING

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## RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

|               |                   |             |          |
|---------------|-------------------|-------------|----------|
| COMPANY       | FIREFLY, INC.     | DATE        | 12/12/02 |
| EUT           | INDUSTRIAL REMOTE | DUTY CYCLE  | N/A %    |
| MODEL         | 1000              | PEAK TO AVG | N/A dB   |
| S/N           | N/A               | TEST DIST.  | 3 Meters |
| TEST ENGINEER | KYLE FUJIMOTO     | LAB         | D        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | Distance<br>Factor<br>(dB) | Mixer<br>Factor<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|----------------------------|-------------------------|-----------------------------------|---------------------|---------------------------|----------|
| 4582.5000        |                           | A                                     | H                             |                               |                             | X                      | LOW                  | 34.3                      | 6.0                   | 31.2                      | 0.0                        |                         |                                   |                     | 54.0                      |          |
| 4582.5000        | 39.8                      | A                                     | H                             | 1.0                           | 0                           | Y                      | LOW                  | 34.3                      | 6.0                   | 31.2                      | 0.0                        | 0.0                     | 48.9                              | -5.1                | 54.0                      |          |
| 4582.5000        | 39.0                      | A                                     | H                             | 1.0                           | 180                         | Z                      | LOW                  | 34.3                      | 6.0                   | 31.2                      | 0.0                        | 0.0                     | 48.1                              | -5.9                | 54.0                      |          |
| 4582.5000        | 36.2                      | A                                     | V                             | 1.0                           | 180                         | X                      | LOW                  | 34.3                      | 6.0                   | 31.2                      | 0.0                        | 0.0                     | 45.3                              | -8.7                | 54.0                      |          |
| 4582.5000        | 39.6                      | A                                     | V                             | 1.0                           | 240                         | Y                      | LOW                  | 34.3                      | 6.0                   | 31.2                      | 0.0                        | 0.0                     | 48.7                              | -5.3                | 54.0                      |          |
| 4582.5000        | 38.8                      | A                                     | V                             | 1.0                           | 180                         | Z                      | LOW                  | 34.3                      | 6.0                   | 31.2                      | 0.0                        | 0.0                     | 47.9                              | -6.1                | 54.0                      |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                            |                         |                                   |                     |                           |          |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN  
 \*\* DELTA = SPEC LIMIT - CORRECTED READING

No Harmonics nor Emissions found after  
the 5th Harmonic

Page: 1 of 1

Test location: Compatible Electronics

Customer : FIREFLY, INC.

Manufacturer : FIREFLY, INC.

EUT name : INDUSTRIAL REMOTE

Specification: Fcc\_B Test distance: 3.0 mtrs

Distance correction factor( $20 \cdot \log(\text{test}/\text{spec})$ ) : 0.00

Test Mode :

RADIATED SPURIOUS EMISSIONS - 10 kHz TO 9300 MHz

VERTICAL AND HORIZONTAL POLARIZATION

TEMPERATURE 61 DEGREES F., RELATIVE HUMIDITY 65%

TESTED BY: KYLE FUJIMOTO

Date : 12/12/2002

Time : 16.33

Model: 1000

Lab: D

NO SPURIOUS EMISSIONS FOUND FROM 10 kHz TO 9300 MHz  
IN EITHER POLARIZATION FOR THE EUT

