

# **Test Report**

**FCC ID:** M5ZWOWTHL

**EUT:** Wireless Temperature/RH/Light Sensor, Models WOW-RHT and WOW-LGT

**Manufactured by:**

Point Six, Inc.  
391 Codell Drive  
Lexington, KY. 40509

**Measurements According to:** ANSI C63.4 (1992)

**Measurement Date:** October 16, 2000

**Testing Performed at:**

Lexmark International, Inc.  
Registered Open Field Test Site  
Development Lab.  
740 New Circle Road, NW.  
Lexington, KY. 40511-1876

**Accreditation Status of Test Facility:**

The Lexmark site was recognized by the Commission as meeting the requirements of section 2.948 of the FCC Rules via a letter dated August 20, 1998 and is presently on file with the Commission.

## Test Report

FCC ID: M5ZWOWTHL(Model WOW-LGT)

### Testing Results:

| Harmonic | Freq.<br>(MHz) | Meter<br>Peak<br>dB | Meter<br>Average<br>dB | Ant &<br>Cable<br>Factors<br>dB/uV/m | Total<br>Peak<br>dB/uV/m | Limit<br>Peak<br>dB/uV/m | Total<br>Average<br>dB/uV/m | Limit<br>Average<br>dB/uV/m |
|----------|----------------|---------------------|------------------------|--------------------------------------|--------------------------|--------------------------|-----------------------------|-----------------------------|
| 1        | 418            | 67.10               | 33.00                  | 19.28                                | 86.38                    | 92.30                    | 52.28                       | 72.30                       |
| 2        | 836            | 2.0 <b>QP</b>       | -                      | 25.16                                | 27.16 <b>QP</b>          | 46.00 <b>QP</b>          | -                           | -                           |
| 3        | 1254           | 10.74               | -3.96                  | 24.60                                | 35.34                    | 74.00                    | 20.64                       | 54.00                       |
| 4        | 1672           | 11.38               | -2.63                  | 26.50                                | 37.88                    | 74.00                    | 23.87                       | 54.00                       |
| 5        | 2090           | 11.42               | -2.25                  | 28.10                                | 39.52                    | 74.00                    | 25.85                       | 54.00                       |
| 6        | 2508           | 10.87               | -1.95                  | 29.80                                | 40.67                    | 74.00                    | 27.85                       | 54.00                       |
| 7        | 2926           | 11.14               | -1.55                  | 31.50                                | 42.64                    | 74.00                    | 29.95                       | 54.00                       |
| 8        | 3344           | 11.12               | -1.40                  | 31.90                                | 43.02                    | 74.00                    | 30.50                       | 54.00                       |
| 9        | 3762           | 11.32               | -1.55                  | 32.40                                | 43.72                    | 74.00                    | 30.85                       | 54.00                       |
| 10       | 4180           | 11.23               | -1.76                  | 32.90                                | 44.13                    | 74.00                    | 31.14                       | 54.00                       |
|          |                |                     |                        |                                      |                          |                          |                             |                             |

### Sample Calculation:

From FCC Rules, Paragraph 15.231(e)

Frequency: 260-470 MHz.

Amplitude: 1500-5000 uV/m

For 418 MHz.  $L(\text{limit}) = ((418-260)/(470-260))(5000-1500) + 1500$

$L = 4133 \text{ uV/m}$

$L(\text{dB/uV/m}) = 20 \text{ Log } (4133)$

$L = 72.3 \text{ dB/uV/m (AVG)}$

$L(\text{Peak}) = \text{Avg.} + 20 \text{ dB}$

$L(\text{Peak}) = 72.3 + 20 = 92.3 \text{ dB/uV/m}$

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
D.R. Bush, PE, NCE, President dBi Corporation

## Test Report

FCC ID: M5ZWOWTHL(Model WOW-RHT)

### Testing Results:

| Harmonic | Freq.<br>(MHz) | Meter<br>Peak<br>dB | Meter<br>Average<br>dB | Ant &<br>Cable<br>Factors<br>dB/uV/m | Total<br>Peak<br>dB/uV/m | Limit<br>Peak<br>dB/uV/m | Total<br>Average<br>dB/uV/m | Limit<br>Average<br>dB/uV/m |
|----------|----------------|---------------------|------------------------|--------------------------------------|--------------------------|--------------------------|-----------------------------|-----------------------------|
| 1        | 418            | 65.00               | 32.00                  | 19.28                                | 84.28                    | 92.30                    | 51.28                       | 72.30                       |
| 2        | 836            | 12.60 <b>QP</b>     | -                      | 25.16                                | 37.76 <b>QP</b>          | 46.00 <b>QP</b>          | -                           | -                           |
| 3        | 1254           | 10.60               | -2.87                  | 24.60                                | 35.20                    | 74.00                    | 21.73                       | 54.00                       |
| 4        | 1672           | 12.08               | -2.61                  | 26.50                                | 38.58                    | 74.00                    | 23.89                       | 54.00                       |
| 5        | 2090           | 12.80               | -2.23                  | 28.10                                | 40.90                    | 74.00                    | 25.87                       | 54.00                       |
| 6        | 2508           | 13.04               | -1.94                  | 29.80                                | 42.84                    | 74.00                    | 27.86                       | 54.00                       |
| 7        | 2926           | 13.15               | -0.93                  | 31.50                                | 44.65                    | 74.00                    | 30.57                       | 54.00                       |
| 8        | 3344           | 12.48               | -1.54                  | 31.90                                | 44.38                    | 74.00                    | 30.36                       | 54.00                       |
| 9        | 3762           | 12.70               | 1.50                   | 32.40                                | 45.10                    | 74.00                    | 33.90                       | 54.00                       |
| 10       | 4180           | 12.57               | 1.28                   | 32.90                                | 45.47                    | 74.00                    | 34.18                       | 54.00                       |
|          |                |                     |                        |                                      |                          |                          |                             |                             |

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$L(\text{Peak}) = 72.3 + 20 = 92.3 \text{ dB/uV/m}$

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
D.R. Bush, PE, NCE, President dBi Corporation