

*FCC PART 15, SUBPART B and C  
TEST REPORT*

*for*

REMOTE CONTROL (ONYX)

MODEL: VP4700R

Prepared for

INTERLINK ELECTRONICS, INC.  
546 FLYNN ROAD  
CAMARILLO, CALIFORNIA 93012

Prepared by: *Kyle Fujimoto*

KYLE FUJIMOTO

Approved by: *James Ross*

JAMES ROSS

COMPATIBLE ELECTRONICS INC.  
114 OLINDA DRIVE  
BREA, CALIFORNIA 92823  
(714) 579-0500

DATE: OCTOBER 17, 2006

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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: Remote Control (Onyx)  
Model: VP4700R  
S/N: N/A

Product Description: See Expository Statement

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

Manufacturer: Interlink Electronics, Inc.  
6101 Gateway Drive  
Cypress, California 90630-4841

Test Dates: September 6, 7, and 11, 2006

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

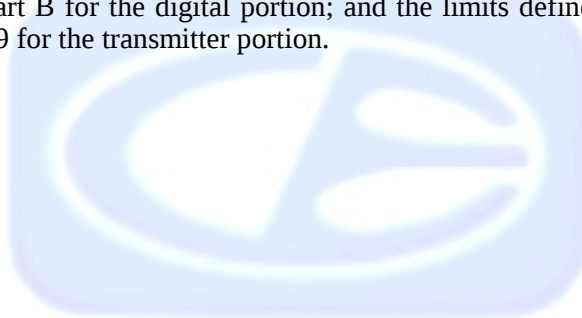
Test Deviations: The test procedure was not deviated from during the testing.

## SUMMARY OF TEST RESULTS

| TEST | DESCRIPTION                                                    | RESULTS                                                                                           |
|------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 1    | Conducted RF Emissions, 150 kHz – 30 MHz                       | This test was not performed because the EUT cannot be plugged into the AC public mains.           |
| 2    | Radiated RF Emissions, 10 kHz – 9300 MHz (Transmitter Portion) | Complies with the limits of CFR Title 47, Part 15, Subpart C, section 15.205, 15.209, and 15.249. |
| 3    | Radiated RF Emissions, 10 kHz – 9300 MHz (Digital Portion)     | Complies with the <b>Class B</b> limits of CFR Title 47, Part 15, Subpart B.                      |

## 1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Remote Control (Onyx), Model: VP4700R. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4. 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 for the digital portion; and the limits defined in Subpart C, sections 15.205, 15.209, and 15.249 for the transmitter portion.



## 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

Interlink Electronics, Inc.

Daniel Grieder                      MTS

Compatible Electronics, Inc.

Kyle Fujimoto                      Test Engineer  
James Ross                          Test Engineer

### 2.4 Date Test Sample was Received

The test sample was received on September 6, 2006.

### 2.5 Disposition of the Test Sample

The sample was returned to Interlink Electronics, Inc. on October 17, 2006.

### 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       | American National Standard for 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 Remote Control (Onyx), Model: VP4700R (EUT) was tested as a stand alone unit and continuously transmitting or receiving. The EUT's antenna is a PCB style antenna and is on the PCB itself. The EUT was tested in three orthogonal axis.

The final radiated data was taken in the both transmitting and receiving modes. Please see Appendix E for the data sheets.

---

**4.1.1 Cable Construction and Termination**

There were no cables connected to the EUT.



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

| EQUIPMENT                      | MANUFACTURER                   | MODEL<br>NUMBER | SERIALNUMBER | FCC ID      |
|--------------------------------|--------------------------------|-----------------|--------------|-------------|
| REMOTE CONTROL<br>(ONYX) (EUT) | INTERLINK<br>ELECTRONICS, INC. | VP4700R         | N/A          | IE3VP47XX06 |

**5.2 EMI Test Equipment**

| EQUIPMENT TYPE                                                | MANU-FACTURER    | MODEL NUMBER | SERIAL NUMBER | CALIBRATION DATE   | CALIBRATION DUE DATE |
|---------------------------------------------------------------|------------------|--------------|---------------|--------------------|----------------------|
| <b>GENERAL TEST EQUIPMENT USED FOR ALL RF EMISSIONS TESTS</b> |                  |              |               |                    |                      |
| Computer                                                      | Hewlett Packard  | 4530         | US91912319    | N/A                | N/A                  |
| EMI Receiver                                                  | Rohde & Schwarz  | ESIB40       | 100172        | October 28, 2004   | October 28, 2006     |
| Monitor                                                       | Hewlett Packard  | D5258A       | TW74500641    | N/A                | N/A                  |
| <b>RF RADIATED EMISSIONS TEST EQUIPMENT</b>                   |                  |              |               |                    |                      |
| Preamplifier                                                  | Com Power        | PA-102       | 1017          | January 19, 2006   | Jan. 19, 2006        |
| Biconical Antenna                                             | Com Power        | AB-900       | 15227         | March 9, 2006      | March 9, 2006        |
| Log Periodic Antenna                                          | Com Power        | AL-100       | 16060         | July 17, 2006      | July 17, 2006        |
| Loop Antenna                                                  | Com Power        | AL-130       | 17089         | September 21, 2005 | Sept. 21, 2006       |
| Horn Antenna                                                  | Antenna Research | DRG-118/A    | 1053          | March 6, 2006      | March 6, 2007        |
| Microwave Preamplifier                                        | Com Power        | PA-840       | 711919        | January 20, 2006   | Jan. 20, 2007        |
| Horn Antenna                                                  | Com Power        | AH826        | 71957         | December 12, 2005  | Dec. 12, 2007        |
| Microwave Preamplifier                                        | Com Power        | PA-122       | 181917        | January 20, 2006   | Jan. 20, 2007        |
| Antenna Mast                                                  | Com Power        | AM-100       | N/A           | N/A                | N/A                  |

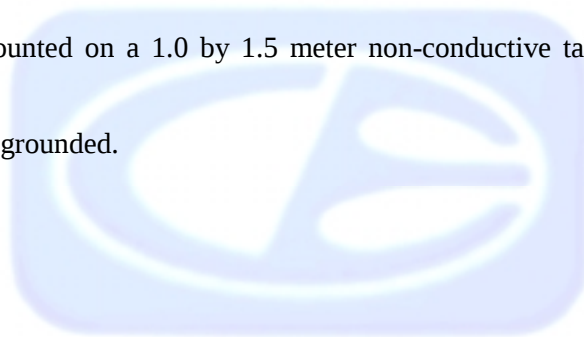
**6. TEST SITE DESCRIPTION****6.1 Test Facility Description**

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 RF Emissions

#### 7.1.1 Radiated Emissions (Spurious and Harmonics) Test

The EMI Receiver 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 EMI Receiver was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the EMI Receiver records the highest measured reading over all the sweeps.

The frequencies above 1 GHz were averaged manually by narrowing the video filter down to 10 Hz and putting the sweep time on AUTO on the spectrum analyzer to keep the amplitude reading calibrated.

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 9.2 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. 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.

### 7.1.2 Radiated Emissions (Spurious and Harmonics) Test (Continued)

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 the 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 CFR Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.249.

## 8. CONCLUSIONS

The Remote Control (Onyx), Model: VP4700R meets all of the **Class B** specification limits defined in CFR Title 47, Part 15, Subpart B for the digital portion; and the limits defined in Subpart C, sections 15.205, 15.209, and 15.249 for the transmitter portion.





**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**

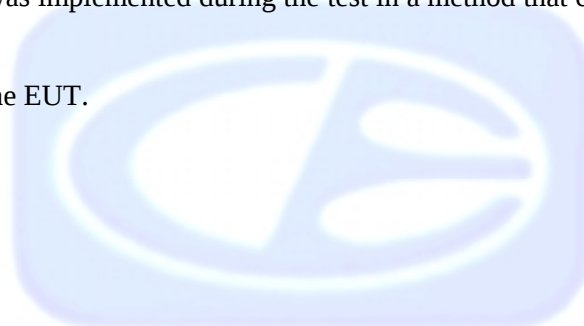
***MODIFICATIONS TO THE EUT***

## 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 to the EUT.





**APPENDIX C**

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

---

**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

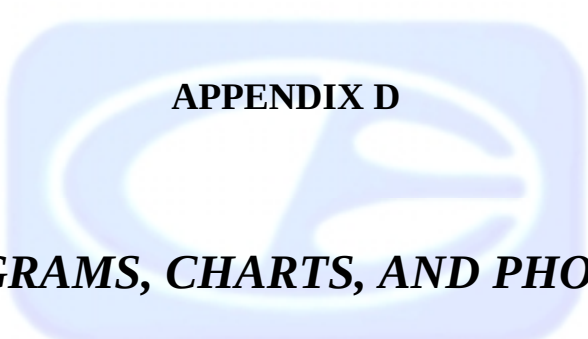
## ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Remote Control (Onyx)  
Model: VP4700R  
S/N: N/A

There were no additional models covered under this report.



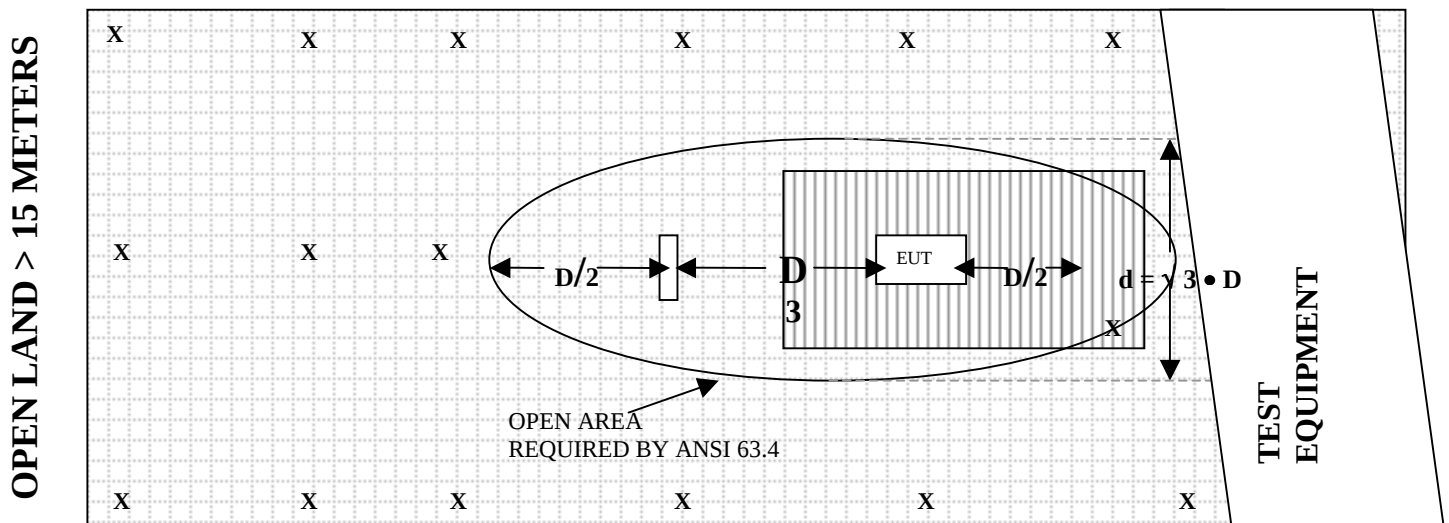


## **APPENDIX D**

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

**FIGURE 1: PLOT MAP AND LAYOUT OF 3 METER  
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-900

BICONICAL ANTENNA

S/N: 15227

CALIBRATION DATE: MARCH 9, 2006

| FREQUENCY<br>(MHz) | FACTOR<br>(dB) | FREQUENCY<br>(MHz) | FACTOR<br>(dB) |
|--------------------|----------------|--------------------|----------------|
| 30                 | 11.12          | 120                | 13.50          |
| 35                 | 10.17          | 125                | 12.63          |
| 40                 | 9.75           | 140                | 12.20          |
| 45                 | 12.22          | 150                | 11.85          |
| 50                 | 13.28          | 160                | 13.25          |
| 60                 | 11.36          | 175                | 15.74          |
| 70                 | 7.95           | 180                | 16.23          |
| 80                 | 5.95           | 200                | 16.79          |
| 90                 | 7.62           | 250                | 16.47          |
| 100                | 10.89          | 300                | 17.49          |

COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16060

CALIBRATION DATE: JULY 17, 2006

| FREQUENCY<br>(MHz) | FACTOR<br>(dB) | FREQUENCY<br>(MHz) | FACTOR<br>(dB) |
|--------------------|----------------|--------------------|----------------|
| 300                | 13.58          | 700                | 20.49          |
| 400                | 14.53          | 800                | 20.13          |
| 500                | 15.36          | 900                | 22.15          |
| 600                | 18.29          | 1000               | 22.76          |

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

S/N: 1017

CALIBRATION DATE: JANUARY 19, 2006

| <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 30                         | 38.3                   | 300                        | 38.4                   |
| 40                         | 38.4                   | 350                        | 38.4                   |
| 50                         | 38.3                   | 400                        | 38.0                   |
| 60                         | 38.4                   | 450                        | 38.1                   |
| 70                         | 38.5                   | 500                        | 37.5                   |
| 80                         | 38.4                   | 550                        | 38.0                   |
| 90                         | 38.4                   | 600                        | 38.0                   |
| 100                        | 38.4                   | 650                        | 37.7                   |
| 125                        | 38.1                   | 700                        | 37.7                   |
| 150                        | 38.5                   | 750                        | 37.7                   |
| 175                        | 38.4                   | 800                        | 37.0                   |
| 200                        | 38.3                   | 850                        | 37.2                   |
| 225                        | 38.3                   | 900                        | 36.6                   |
| 250                        | 38.1                   | 950                        | 36.3                   |
| 275                        | 38.3                   | 1000                       | 36.3                   |

**COM-POWER PA-122****PREAMPLIFIER****S/N: 181917****CALIBRATION DATE: JANUARY 20, 2006**

| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 1.0                        | 34.697                 | 10.0                       | 36.558                 |
| 1.5                        | 33.817                 | 10.5                       | 35.048                 |
| 2.0                        | 33.587                 | 11.0                       | 33.258                 |
| 2.5                        | 33.804                 | 11.5                       | 32.960                 |
| 3.0                        | 33.850                 | 12.0                       | 33.312                 |
| 3.5                        | 33.943                 | 12.5                       | 33.836                 |
| 4.0                        | 34.399                 | 13.0                       | 34.178                 |
| 4.5                        | 34.847                 | 13.5                       | 34.197                 |
| 5.0                        | 35.172                 | 14.0                       | 33.769                 |
| 5.5                        | 35.383                 | 14.5                       | 33.392                 |
| 6.0                        | 35.539                 | 15.0                       | 33.387                 |
| 6.5                        | 34.802                 | 15.5                       | 34.038                 |
| 7.0                        | 33.793                 | 16.0                       | 34.884                 |
| 7.5                        | 33.511                 | 16.5                       | 35.740                 |
| 8.0                        | 33.910                 | 17.0                       | 35.341                 |
| 8.5                        | 34.907                 | 17.5                       | 34.729                 |
| 9.0                        | 36.036                 | 18.0                       | 33.760                 |
| 9.5                        | 36.661                 |                            |                        |

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

S/N: 1053

CALIBRATION DATE: MARCH 6, 2006

| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 1.0                        | 24.46                  | 10.0                       | 39.55                  |
| 1.5                        | 25.05                  | 10.5                       | 39.86                  |
| 2.0                        | 28.42                  | 11.0                       | 38.49                  |
| 2.5                        | 29.91                  | 11.5                       | 40.71                  |
| 3.0                        | 31.46                  | 12.0                       | 40.59                  |
| 3.5                        | 31.91                  | 12.5                       | 40.17                  |
| 4.0                        | 31.55                  | 13.0                       | 39.70                  |
| 4.5                        | 31.94                  | 13.5                       | 40.84                  |
| 5.0                        | 32.90                  | 14.0                       | 41.58                  |
| 5.5                        | 34.07                  | 14.5                       | 45.14                  |
| 6.0                        | 35.69                  | 15.0                       | 42.20                  |
| 6.5                        | 33.11                  | 15.5                       | 39.42                  |
| 7.0                        | 36.51                  | 16.0                       | 38.80                  |
| 7.5                        | 37.27                  | 16.5                       | 41.08                  |
| 8.0                        | 37.21                  | 17.0                       | 44.11                  |
| 8.5                        | 37.16                  | 17.5                       | 46.29                  |
| 9.0                        | 38.27                  | 18.0                       | 41.61                  |
| 9.5                        | 39.73                  |                            |                        |

**COM-POWER PA-840****MICROWAVE PREAMPLIFIER****S/N: 711919****CALIBRATION DATE: JANUARY 20, 2006**

| <b>FREQUENCY (GHz)</b> | <b>FACTOR (dB)</b> | <b>FREQUENCY (GHz)</b> | <b>FACTOR (dB)</b> |
|------------------------|--------------------|------------------------|--------------------|
| 18.0                   | 27.932             | 29.5                   | 27.310             |
| 18.5                   | 28.277             | 30.0                   | 26.860             |
| 19.0                   | 28.500             | 30.5                   | 27.450             |
| 19.5                   | 28.397             | 31.0                   | 27.448             |
| 20.0                   | 28.570             | 31.5                   | 27.868             |
| 20.5                   | 28.183             | 32.0                   | 27.922             |
| 21.0                   | 28.007             | 32.5                   | 27.866             |
| 21.5                   | 27.823             | 33.0                   | 27.314             |
| 22.0                   | 27.747             | 33.5                   | 27.403             |
| 22.5                   | 27.290             | 34.0                   | 26.687             |
| 23.0                   | 27.406             | 34.5                   | 26.390             |
| 23.5                   | 26.508             | 35.0                   | 26.365             |
| 24.0                   | 26.657             | 35.5                   | 26.347             |
| 24.5                   | 27.102             | 36.0                   | 26.138             |
| 25.0                   | 27.742             | 36.5                   | 26.481             |
| 25.5                   | 27.646             | 37.0                   | 26.236             |
| 26.0                   | 27.934             | 37.5                   | 27.029             |
| 26.5                   | 27.976             | 38.0                   | 27.883             |
| 27.0                   | 26.984             | 38.5                   | 29.021             |
| 27.5                   | 26.745             | 39.0                   | 29.408             |
| 28.0                   | 27.075             | 39.5                   | 28.429             |
| 28.5                   | 27.015             | 39.75                  | 27.704             |
| 29.0                   | 27.169             | 40.0                   | 26.441             |

COM-POWER AH826

HORN ANTENNA

S/N: 71957

CALIBRATION DATE: DECEMBER 12, 2005

| FREQUENCY (GHz) | FACTOR (dB) | FREQUENCY (GHz) | FACTOR (dB) |
|-----------------|-------------|-----------------|-------------|
| 18.0            | 32.4        | 22.5            | 32.0        |
| 18.5            | 31.4        | 23.0            | 32.2        |
| 19.0            | 31.5        | 23.5            | 31.2        |
| 19.5            | 30.9        | 24.0            | 33.1        |
| 20.0            | 33.1        | 24.5            | 33.1        |
| 20.5            | 33.4        | 25.0            | 33.4        |
| 21.0            | 32.1        | 25.5            | 33.4        |
| 21.5            | 32.5        | 26.0            | 32.9        |
| 22.0            | 32.3        | 26.5            | 33.6        |

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

S/N: 17089

CALIBRATION DATE: SEPTEMBER 21, 2005

| <b>FREQUENCY<br/>(MHz)</b> | <b>MAGNETIC<br/>(dB/m)</b> | <b>ELECTRIC<br/>(dB/m)</b> |
|----------------------------|----------------------------|----------------------------|
| 0.009                      | -42.84                     | 8.66                       |
| 0.01                       | -41.93                     | 9.57                       |
| 0.02                       | -41.29                     | 10.21                      |
| 0.05                       | -42.37                     | 9.13                       |
| 0.07                       | -41.8                      | 9.7                        |
| 0.1                        | -41.83                     | 9.67                       |
| 0.2                        | -44.13                     | 7.37                       |
| 0.3                        | -41.73                     | 9.77                       |
| 0.5                        | -41.8                      | 9.7                        |
| 0.7                        | -41.53                     | 9.97                       |
| 1                          | -41.46                     | 10.04                      |
| 2                          | -41.14                     | 10.36                      |
| 3                          | -41.26                     | 10.24                      |
| 4                          | -41.46                     | 10.04                      |
| 5                          | -41.10                     | 10.40                      |
| 10                         | -40.83                     | 10.67                      |
| 15                         | -41.47                     | 10.03                      |
| 20                         | -35.44                     | 16.06                      |
| 25                         | -42.37                     | 9.13                       |
| 30                         | -42.94                     | 8.56                       |



**FRONT VIEW**

INTERLINK ELECTRONICS, INC.  
REMOTE CONTROL (ONYX)  
MODEL: VP4700R  
FCC SUBPART B AND C – RADIATED EMISSIONS

**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**

INTERLINK ELECTRONICS, INC.  
REMOTE CONTROL (ONYX)  
MODEL: VP4700R  
FCC SUBPART B AND C – RADIATED EMISSIONS

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

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

Silverado Division  
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Silverado, CA 92676  
(949) 589-0700

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



**FRONT VIEW**

INTERLINK ELECTRONICS, INC.  
REMOTE CONTROL (ONYX)  
MODEL: VP4700R  
FCC SUBPART B AND C – RADIATED EMISSIONS

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**REAR VIEW**

INTERLINK ELECTRONICS, INC.  
REMOTE CONTROL (ONYX)  
MODEL: VP4700R  
FCC SUBPART B AND C – RADIATED EMISSIONS

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

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Lake Forest, CA 92630  
(949) 587-0400



**APPENDIX E**

***DATA SHEETS***

**FCC 15.249**

Interlink Electronics, Inc.  
 Remote Control (Onyx)  
 Model: VP4700R

Date: 09/07/06

Lab: B

Tested By: Kyle Fujimoto

**Low Channel - 2405 MHz - 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    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2405           | 93.39           | V         | 94    | -0.61  | Peak                  | 2.39                  | 135                     |             |
| 2405           | 92.53           | V         | 94    | -1.47  | Avg                   | 2.39                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4810           | 48.6            | V         | 74    | -25.4  | Peak                  | 2.79                  | 135                     |             |
| 4810           | 42.01           | V         | 54    | -11.99 | Avg                   | 2.79                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 7215           | 47.61           | V         | 74    | -26.39 | Peak                  | 1.72                  | 225                     |             |
| 7215           | 36.51           | V         | 54    | -17.49 | Avg                   | 1.72                  | 225                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 9620           | 54.27           | V         | 74    | -19.73 | Peak                  | 1.79                  | 135                     |             |
| 9620           | 39.73           | V         | 54    | -14.27 | Avg                   | 1.79                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 12025          | 55.26           | V         | 74    | -18.74 | Peak                  | 1.63                  | 135                     |             |
| 12025          | 43.24           | V         | 54    | -10.76 | Avg                   | 1.63                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 14430          |                 | V         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 14430          |                 | V         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 16835          |                 | V         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 16835          |                 | V         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 19240          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 19240          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 21645          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 21645          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 24050          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 24050          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |

**FCC 15.249**

Interlink Electronics, Inc.  
 Remote Control (Onyx)  
 Model: VP4700R

Date: 09/07/06

Lab: B

Tested By: Kyle Fujimoto

**Low Channel - 2405 MHz - 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    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2405           | 89.98           | H         | 94    | -4.02  | Peak                  | 2.63                  | 135                     |             |
| 2405           | 89.02           | H         | 94    | -4.98  | Avg                   | 2.63                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4810           | 43.12           | H         | 74    | -30.88 | Peak                  | 1.96                  | 45                      |             |
| 4810           | 29.12           | H         | 54    | -24.88 | Avg                   | 1.96                  | 45                      |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 7215           | 49.04           | H         | 74    | -24.96 | Peak                  | 2.19                  | 135                     |             |
| 7215           | 36.68           | H         | 54    | -17.32 | Avg                   | 2.19                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 9620           | 52.3            | H         | 74    | -21.7  | Peak                  | 1.89                  | 135                     |             |
| 9620           | 39.9            | H         | 54    | -14.1  | Avg                   | 1.89                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 12025          | 55.7            | H         | 74    | -18.3  | Peak                  | 2.28                  | 15                      |             |
| 12025          | 43.36           | H         | 54    | -10.64 | Avg                   | 2.28                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 14430          |                 | H         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 14430          |                 | H         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 16835          |                 | H         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 16835          |                 | H         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 19240          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 19240          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 21645          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 21645          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 24050          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 24050          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |

**FCC 15.249**

Interlink Electronics, Inc.  
Remote Control (Onyx)  
Model: VP4700R

Date: 09/07/06

Lab: B

Tested By: Kyle Fujimoto

**Low Channel - 2405 MHz - 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    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2405           | 93.64           | V         | 94    | -0.36  | Peak                  | 2.74                  | 135                     |             |
| 2405           | 92.66           | V         | 94    | -1.34  | Avg                   | 2.74                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4810           | 45.94           | V         | 74    | -28.06 | Peak                  | 2.72                  | 135                     |             |
| 4810           | 37.81           | V         | 54    | -16.19 | Avg                   | 2.72                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 7215           | 49.74           | V         | 74    | -24.26 | Peak                  | 1.75                  | 135                     |             |
| 7215           | 36.96           | V         | 54    | -17.04 | Avg                   | 1.75                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 9620           | 57.09           | V         | 74    | -16.91 | Peak                  | 1.38                  | 135                     |             |
| 9620           | 45.26           | V         | 54    | -8.74  | Avg                   | 1.38                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 12025          | 56.26           | V         | 74    | -17.74 | Peak                  | 2.02                  | 135                     |             |
| 12025          | 43.46           | V         | 54    | -10.54 | Avg                   | 2.02                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 14430          |                 | V         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 14430          |                 | V         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 16835          |                 | V         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 16835          |                 | V         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 19240          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 19240          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 21645          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 21645          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 24050          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 24050          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |

**FCC 15.249**

Interlink Electronics, Inc.

Remote Control (Onyx)

Model: VP4700R

Date: 09/07/06

Lab: B

Tested By: Kyle Fujimoto

**Low Channel - 2405 MHz - 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    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2405           | 82.17           | H         | 94    | -11.83 | Peak                  | 2.03                  | 135                     |             |
| 2405           | 79.8            | H         | 94    | -14.2  | Avg                   | 2.03                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4810           | 44.1            | H         | 74    | -29.9  | Peak                  | 2.42                  | 135                     |             |
| 4810           | 29.58           | H         | 54    | -24.42 | Avg                   | 2.42                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 7215           | 49.23           | H         | 74    | -24.77 | Peak                  | 1.57                  | 135                     |             |
| 7215           | 36.48           | H         | 54    | -17.52 | Avg                   | 1.57                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 9620           | 55.41           | H         | 74    | -18.59 | Peak                  | 1.51                  | 225                     |             |
| 9620           | 43.17           | H         | 54    | -10.83 | Avg                   | 1.51                  | 225                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 12025          | 53.61           | H         | 74    | -20.39 | Peak                  | 1.68                  | 135                     |             |
| 12025          | 41.25           | H         | 54    | -12.75 | Avg                   | 1.68                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 14430          |                 | H         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 14430          |                 | H         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 16835          |                 | H         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 16835          |                 | H         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 19240          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 19240          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 21645          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 21645          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 24050          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 24050          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |

**FCC 15.249**

Interlink Electronics, Inc.  
 Remote Control (Onyx)  
 Model: VP4700R

Date: 09/07/06

Lab: B

Tested By: Kyle Fujimoto

**Low Channel - 2405 MHz - 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    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2405           | 86.11           | V         | 94    | -7.89  | Peak                  | 2.97                  | 180                     |             |
| 2405           | 85.15           | V         | 94    | -8.85  | Avg                   | 2.97                  | 180                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4810           | 43.61           | V         | 74    | -30.39 | Peak                  | 2.17                  | 135                     |             |
| 4810           | 29.09           | V         | 54    | -24.91 | Avg                   | 2.17                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 7215           | 49.13           | V         | 74    | -24.87 | Peak                  | 1.63                  | 135                     |             |
| 7215           | 36.61           | V         | 54    | -17.39 | Avg                   | 1.63                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 9620           | 55.87           | V         | 74    | -18.13 | Peak                  | 2.42                  | 135                     |             |
| 9620           | 42.03           | V         | 54    | -11.97 | Avg                   | 2.42                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 12025          | 56.09           | V         | 74    | -17.91 | Peak                  | 2.18                  | 135                     |             |
| 12025          | 43.44           | V         | 54    | -10.56 | Avg                   | 2.18                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 14430          |                 | V         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 14430          |                 | V         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 16835          |                 | V         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 16835          |                 | V         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 19240          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 19240          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 21645          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 21645          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 24050          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 24050          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |

**FCC 15.249**

Interlink Electronics, Inc.  
 Remote Control (Onyx)  
 Model: VP4700R

Date: 09/07/06

Lab: B

Tested By: Kyle Fujimoto

**Low Channel - 2405 MHz - 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    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2405           | 83.08           | H         | 94    | -10.92 | Peak                  | 2.95                  | 135                     |             |
| 2405           | 82.03           | H         | 94    | -11.97 | Avg                   | 2.95                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4810           | 41.96           | H         | 74    | -32.04 | Peak                  | 1.89                  | 135                     |             |
| 4810           | 29.15           | H         | 54    | -24.85 | Avg                   | 1.89                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 7215           | 48.2            | H         | 74    | -25.8  | Peak                  | 2.06                  | 135                     |             |
| 7215           | 36.59           | H         | 54    | -17.41 | Avg                   | 2.06                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 9620           | 54.99           | H         | 74    | -19.01 | Peak                  | 2.63                  | 135                     |             |
| 9620           | 42.71           | H         | 54    | -11.29 | Avg                   | 2.63                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 12025          | 55.68           | H         | 74    | -18.32 | Peak                  | 1.88                  | 135                     |             |
| 12025          | 43.39           | H         | 54    | -10.61 | Avg                   | 1.88                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 14430          |                 | H         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 14430          |                 | H         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 16835          |                 | H         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 16835          |                 | H         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 19240          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 19240          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 21645          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 21645          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 24050          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 24050          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |

**FCC 15.249**

Interlink Electronics, Inc.  
 Remote Control (Onyx)  
 Model: VP4700R

Date: 09/07/06

Lab: B

Tested By: Kyle Fujimoto

**Middle Channel - 2441 MHz - 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    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2441           | 84.05           | V         | 94    | -9.95  | Peak                  | 2.01                  | 135                     |             |
| 2441           | 82.2            | V         | 94    | -11.8  | Avg                   | 2.01                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4882           | 43.6            | V         | 74    | -30.4  | Peak                  | 1.79                  | 135                     |             |
| 4882           | 29.23           | V         | 54    | -24.77 | Avg                   | 1.79                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 7323           | 49.33           | V         | 74    | -24.67 | Peak                  | 2.64                  | 180                     |             |
| 7323           | 37.31           | V         | 54    | -16.69 | Avg                   | 2.64                  | 180                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 9764           | 51.47           | V         | 74    | -22.53 | Peak                  | 1.74                  | 135                     |             |
| 9764           | 39.09           | V         | 54    | -14.91 | Avg                   | 1.74                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 12205          | 54.83           | V         | 74    | -19.17 | Peak                  | 1.81                  | 135                     |             |
| 12205          | 42.8            | V         | 54    | -11.2  | Avg                   | 1.81                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 14646          |                 | V         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 14646          |                 | V         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 17087          |                 | V         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 17087          |                 | V         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 19528          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 19528          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 21969          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 21969          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 24410          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 24410          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |

**FCC 15.249**

Interlink Electronics, Inc.  
Remote Control (Onyx)  
Model: VP4700R

Date: 09/07/06

Lab: B

Tested By: Kyle Fujimoto

**Middle Channel - 2441 MHz - 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    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2441           | 87.43           | H         | 94    | -6.57  | Peak                  | 2.89                  | 135                     |             |
| 2441           | 85.96           | H         | 94    | -8.04  | Avg                   | 2.89                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4882           | 42.66           | H         | 74    | -31.34 | Peak                  | 1.99                  | 135                     |             |
| 4882           | 29.77           | H         | 54    | -24.23 | Avg                   | 1.99                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 7323           | 50.86           | H         | 74    | -23.14 | Peak                  | 1.99                  | 135                     |             |
| 7323           | 38.71           | H         | 54    | -15.29 | Avg                   | 1.99                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 9764           | 54.26           | H         | 74    | -19.74 | Peak                  | 1.6                   | 135                     |             |
| 9764           | 42.11           | H         | 54    | -11.89 | Avg                   | 1.6                   | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 12205          | 54.65           | H         | 74    | -19.35 | Peak                  | 1.45                  | 135                     |             |
| 12205          | 42.5            | H         | 54    | -11.5  | Avg                   | 1.45                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 14646          |                 | H         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 14646          |                 | H         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 17087          |                 | H         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 17087          |                 | H         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 19528          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 19528          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 21969          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 21969          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 24410          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 24410          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |

**FCC 15.249**

Interlink Electronics, Inc.

Remote Control (Onyx)

Model: VP4700R

Date: 09/07/06

Lab: B

Tested By: Kyle Fujimoto

**Middle Channel - 2441 MHz - 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    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2441           | 92.97           | V         | 94    | -1.03  | Peak                  | 1.78                  | 135                     |             |
| 2441           | 92.19           | V         | 94    | -1.81  | Avg                   | 1.78                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4882           | 47.75           | V         | 74    | -26.25 | Peak                  | 2.21                  | 135                     |             |
| 4882           | 40.59           | V         | 54    | -13.41 | Avg                   | 2.12                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 7323           | 48.48           | V         | 74    | -25.52 | Peak                  | 1.84                  | 135                     |             |
| 7323           | 37.63           | V         | 54    | -16.37 | Avg                   | 1.84                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 9764           | 55.65           | V         | 74    | -18.35 | Peak                  | 2.04                  | 135                     |             |
| 9764           | 45.57           | V         | 54    | -8.43  | Avg                   | 2.04                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 12205          | 55.05           | V         | 74    | -18.95 | Peak                  | 2.04                  | 135                     |             |
| 12205          | 42.81           | V         | 54    | -11.19 | Avg                   | 2.04                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 14646          |                 | V         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 14646          |                 | V         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 17087          |                 | V         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 17087          |                 | V         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 19528          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 19528          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 21969          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 21969          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 24410          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 24410          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |

**FCC 15.249**

Interlink Electronics, Inc.

Remote Control (Onyx)

Model: VP4700R

Date: 09/07/06

Lab: B

Tested By: Kyle Fujimoto

**Middle Channel - 2441 MHz - 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    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2441           | 84.95           | H         | 94    | -9.05  | Peak                  | 2.58                  | 90                      |             |
| 2441           | 72.8            | H         | 94    | -21.2  | Avg                   | 2.58                  | 90                      |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4882           | 44.33           | H         | 74    | -29.67 | Peak                  | 1.71                  | 135                     |             |
| 4882           | 32.18           | H         | 54    | -21.82 | Avg                   | 1.71                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 7323           | 52.49           | H         | 74    | -21.51 | Peak                  | 2.19                  | 135                     |             |
| 7323           | 37.33           | H         | 54    | -16.67 | Avg                   | 2.19                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 9764           | 52.75           | H         | 74    | -21.25 | Peak                  | 1.53                  | 315                     |             |
| 9764           | 40.6            | H         | 54    | -13.4  | Avg                   | 1.53                  | 315                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 12205          | 56.17           | H         | 74    | -17.83 | Peak                  | 2.18                  | 180                     |             |
| 12205          | 42.83           | H         | 54    | -11.17 | Avg                   | 2.18                  | 180                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 14646          |                 | H         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 14646          |                 | H         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 17087          |                 | H         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 17087          |                 | H         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 19528          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 19528          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 21969          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 21969          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 24410          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 24410          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |

**FCC 15.249**

Interlink Electronics, Inc.  
 Remote Control (Onyx)  
 Model: VP4700R

Date: 09/07/06  
 Lab: B  
 Tested By: Kyle Fujimoto

**Middle Channel - 2441 MHz - 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    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2441           | 91.82           | V         | 94    | -2.18  | Peak                  | 3.36                  | 315                     |             |
| 2441           | 90.19           | V         | 94    | -3.81  | Avg                   | 3.36                  | 315                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4882           | 45.04           | V         | 74    | -28.96 | Peak                  | 2.04                  | 135                     |             |
| 4882           | 33.66           | V         | 54    | -20.34 | Avg                   | 2.04                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 7323           | 51.28           | V         | 74    | -22.72 | Peak                  | 1.54                  | 135                     |             |
| 7323           | 38.89           | V         | 54    | -15.11 | Avg                   | 1.54                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 9764           | 55.66           | V         | 74    | -18.34 | Peak                  | 1.49                  | 135                     |             |
| 9764           | 42.6            | V         | 54    | -11.4  | Avg                   | 1.49                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 12205          | 54.93           | V         | 74    | -19.07 | Peak                  | 1.35                  | 135                     |             |
| 12205          | 42.78           | V         | 54    | -11.22 | Avg                   | 1.35                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 14646          |                 | V         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 14646          |                 | V         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 17087          |                 | V         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 17087          |                 | V         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 19528          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 19528          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 21969          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 21969          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 24410          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 24410          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |

**FCC 15.249**

Interlink Electronics, Inc.  
 Remote Control (Onyx)  
 Model: VP4700R

Date: 09/07/06  
 Lab: B  
 Tested By: Kyle Fujimoto

**Middle Channel - 2441 MHz - 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    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2441           | 86.2            | H         | 94    | -7.8   | Peak                  | 1.66                  | 90                      |             |
| 2441           | 85.05           | H         | 94    | -8.95  | Avg                   | 1.66                  | 90                      |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4882           | 41.67           | H         | 74    | -32.33 | Peak                  | 1.52                  | 135                     |             |
| 4882           | 29.92           | H         | 54    | -24.08 | Avg                   | 1.52                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 7323           | 53.46           | H         | 74    | -20.54 | Peak                  | 2.85                  | 135                     |             |
| 7323           | 40.33           | H         | 54    | -13.67 | Avg                   | 2.85                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 9764           | 51.76           | H         | 74    | -22.24 | Peak                  | 1.97                  | 135                     |             |
| 9764           | 39.61           | H         | 54    | -14.39 | Avg                   | 1.97                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 12205          | 54.79           | H         | 74    | -19.21 | Peak                  | 1.97                  | 135                     |             |
| 12205          | 42.75           | H         | 54    | -11.25 | Avg                   | 1.97                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 14646          |                 | H         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 14646          |                 | H         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 17087          |                 | H         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 17087          |                 | H         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 19528          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 19528          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 21969          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 21969          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 24410          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 24410          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |

**FCC 15.249**

Interlink Electronics, Inc.  
 Remote Control (Onyx)  
 Model: VP4700R

Date: 09/07/06

Lab: B

Tested By: Kyle Fujimoto

**High Channel - 2470 MHz - 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    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2470           | 93.58           | V         | 94    | -0.42  | Peak                  | 2.47                  | 135                     |             |
| 2470           | 92.77           | V         | 94    | -1.23  | Avg                   | 2.47                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4940           | 49.17           | V         | 74    | -24.83 | Peak                  | 1.89                  | 315                     |             |
| 4940           | 35.73           | V         | 54    | -18.27 | Avg                   | 1.89                  | 315                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 7410           | 47.53           | V         | 74    | -26.47 | Peak                  | 1.52                  | 90                      |             |
| 7410           | 36.87           | V         | 54    | -17.13 | Avg                   | 1.52                  | 90                      |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 9880           | 54.4            | V         | 74    | -19.6  | Peak                  | 1.65                  | 225                     |             |
| 9880           | 39.44           | V         | 54    | -14.56 | Avg                   | 1.65                  | 225                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 12350          | 55.25           | V         | 74    | -18.75 | Peak                  | 1.65                  | 180                     |             |
| 12350          | 42.82           | V         | 54    | -11.18 | Avg                   | 1.65                  | 180                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 14820          |                 | V         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 14820          |                 | V         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 17290          |                 | V         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 17290          |                 | V         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 19760          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 19760          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 22230          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 22230          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 24700          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 24700          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |

**FCC 15.249**

Interlink Electronics, Inc.  
 Remote Control (Onyx)  
 Model: VP4700R

Date: 09/07/06

Lab: B

Tested By: Kyle Fujimoto

**High Channel - 2470 MHz - 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    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2470           | 89.02           | H         | 94    | -4.98  | Peak                  | 1.06                  | 135                     |             |
| 2470           | 88.04           | H         | 94    | -5.96  | Avg                   | 1.06                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4940           | 45.52           | H         | 74    | -28.48 | Peak                  | 1.83                  | 225                     |             |
| 4940           | 31.76           | H         | 54    | -22.24 | Avg                   | 1.83                  | 225                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 7410           | 52.43           | H         | 74    | -21.57 | Peak                  | 2.41                  | 135                     |             |
| 7410           | 42.1            | H         | 54    | -11.9  | Avg                   | 2.41                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 9880           | 52.7            | H         | 74    | -21.3  | Peak                  | 2.33                  | 135                     |             |
| 9880           | 38.66           | H         | 54    | -15.34 | Avg                   | 2.33                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 12350          | 54.7            | H         | 74    | -19.3  | Peak                  | 2.34                  | 180                     |             |
| 12350          | 40.14           | H         | 54    | -13.86 | Avg                   | 2.34                  | 180                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 14820          |                 | H         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 14820          |                 | H         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 17290          |                 | H         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 17290          |                 | H         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 19760          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 19760          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 22230          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 22230          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 24700          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 24700          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |

**FCC 15.249**

Interlink Electronics, Inc.  
 Remote Control (Onyx)  
 Model: VP4700R

Date: 09/07/06

Lab: B

Tested By: Kyle Fujimoto

**High Channel - 2470 MHz - Y-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments    |
|-------------|--------------|-----------|-------|--------|-----------------|-----------------|-------------------|-------------|
| 2470        | 93.77        | V         | 94    | -0.23  | Peak            | 2.24            | 315               |             |
| 2470        | 92.79        | V         | 94    | -1.21  | Avg             | 2.24            | 315               |             |
|             |              |           |       |        |                 |                 |                   |             |
| 4940        | 48.4         | V         | 74    | -25.6  | Peak            | 1.96            | 135               |             |
| 4940        | 40.92        | V         | 54    | -13.08 | Avg             | 1.96            | 135               |             |
|             |              |           |       |        |                 |                 |                   |             |
| 7410        | 52.98        | V         | 74    | -21.02 | Peak            | 1.46            | 135               |             |
| 7410        | 39.51        | V         | 54    | -14.49 | Avg             | 1.46            | 135               |             |
|             |              |           |       |        |                 |                 |                   |             |
| 9880        | 55.02        | V         | 74    | -18.98 | Peak            | 1.85            | 225               |             |
| 9880        | 43.29        | V         | 54    | -10.71 | Avg             | 1.85            | 225               |             |
|             |              |           |       |        |                 |                 |                   |             |
| 12350       | 52.62        | V         | 74    | -21.38 | Peak            | 1.47            | 90                |             |
| 12350       | 39.48        | V         | 54    | -14.52 | Avg             | 1.47            | 90                |             |
|             |              |           |       |        |                 |                 |                   |             |
| 14820       |              | V         | 74    | -74    | Peak            |                 |                   | No Emission |
| 14820       |              | V         | 54    | -54    | Avg             |                 |                   | Detected    |
|             |              |           |       |        |                 |                 |                   |             |
| 17290       |              | V         | 74    | -74    | Peak            |                 |                   | No Emission |
| 17290       |              | V         | 54    | -54    | Avg             |                 |                   | Detected    |
|             |              |           |       |        |                 |                 |                   |             |
| 19760       |              | V         | --    | --     | Peak            |                 |                   | No Emission |
| 19760       |              | V         | --    | --     | Avg             |                 |                   | Detected    |
|             |              |           |       |        |                 |                 |                   |             |
| 22230       |              | V         | --    | --     | Peak            |                 |                   | No Emission |
| 22230       |              | V         | --    | --     | Avg             |                 |                   | Detected    |
|             |              |           |       |        |                 |                 |                   |             |
| 24700       |              | V         | --    | --     | Peak            |                 |                   | No Emission |
| 24700       |              | V         | --    | --     | Avg             |                 |                   | Detected    |
|             |              |           |       |        |                 |                 |                   |             |

**FCC 15.249**

Interlink Electronics, Inc.  
 Remote Control (Onyx)  
 Model: VP4700R

Date: 09/07/06

Lab: B

Tested By: Kyle Fujimoto

**High Channel - 2470 MHz - 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    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2470           | 85.03           | H         | 94    | -8.97  | Peak                  | 2.26                  | 135                     |             |
| 2470           | 84.05           | H         | 94    | -9.95  | Avg                   | 2.26                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4940           | 44.61           | H         | 74    | -29.39 | Peak                  | 2.39                  | 180                     |             |
| 4940           | 32.39           | H         | 54    | -21.61 | Avg                   | 2.39                  | 180                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 7410           | 51.12           | H         | 74    | -22.88 | Peak                  | 3.28                  | 90                      |             |
| 7410           | 40.97           | H         | 54    | -13.03 | Avg                   | 3.28                  | 90                      |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 9880           | 55.53           | H         | 74    | -18.47 | Peak                  | 1.46                  | 135                     |             |
| 9880           | 44.86           | H         | 54    | -9.14  | Avg                   | 1.46                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 12350          | 52.51           | H         | 74    | -21.49 | Peak                  | 2.34                  | 90                      |             |
| 12350          | 40.08           | H         | 54    | -13.92 | Avg                   | 2.34                  | 90                      |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 14820          |                 | H         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 14820          |                 | H         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 17290          |                 | H         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 17290          |                 | H         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 19760          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 19760          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 22230          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 22230          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 24700          |                 | H         | --    | --     | Peak                  |                       |                         | No Emission |
| 24700          |                 | H         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |

**FCC 15.249**

Interlink Electronics, Inc.  
 Remote Control (Onyx)  
 Model: VP4700R

Date: 09/07/06

Lab: B

Tested By: Kyle Fujimoto

**High Channel - 2470 MHz - 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    |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|-------------|
| 2470           | 86.11           | V         | 94    | -7.89  | Peak                  | 1.92                  | 180                     |             |
| 2470           | 85.37           | V         | 94    | -8.63  | Avg                   | 1.92                  | 180                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 4940           | 40.89           | V         | 74    | -33.11 | Peak                  | 1.75                  | 135                     |             |
| 4940           | 29.74           | V         | 54    | -24.26 | Avg                   | 1.75                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 7410           | 52.33           | V         | 74    | -21.67 | Peak                  | 2.69                  | 135                     |             |
| 7410           | 39.44           | V         | 54    | -14.56 | Avg                   | 2.69                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 9880           | 54.41           | V         | 74    | -19.59 | Peak                  | 1.97                  | 45                      |             |
| 9880           | 39.63           | V         | 54    | -14.37 | Avg                   | 1.97                  | 45                      |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 12350          | 55.35           | V         | 74    | -18.65 | Peak                  | 1.66                  | 135                     |             |
| 12350          | 42.85           | V         | 54    | -11.15 | Avg                   | 1.66                  | 135                     |             |
|                |                 |           |       |        |                       |                       |                         |             |
| 14820          |                 | V         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 14820          |                 | V         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 17290          |                 | V         | 74    | -74    | Peak                  |                       |                         | No Emission |
| 17290          |                 | V         | 54    | -54    | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 19760          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 19760          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 22230          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 22230          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |
| 24700          |                 | V         | --    | --     | Peak                  |                       |                         | No Emission |
| 24700          |                 | V         | --    | --     | Avg                   |                       |                         | Detected    |
|                |                 |           |       |        |                       |                       |                         |             |

**FCC 15.249**

Interlink Electronics, Inc.  
 Remote Control (Onyx)  
 Model: VP4700R

Date: 09/07/06

Lab: B

Tested By: Kyle Fujimoto

**High Channel - 2470 MHz - Z-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments    |
|-------------|--------------|-----------|-------|--------|-----------------|-----------------|-------------------|-------------|
| 2470        | 86.52        | H         | 94    | -7.48  | Peak            | 2.34            | 135               |             |
| 2470        | 85.4         | H         | 94    | -8.6   | Avg             | 2.34            | 135               |             |
|             |              |           |       |        |                 |                 |                   |             |
| 4940        | 41.61        | H         | 74    | -32.39 | Peak            | 2.31            | 135               |             |
| 4940        | 29.83        | H         | 54    | -24.17 | Avg             | 2.31            | 135               |             |
|             |              |           |       |        |                 |                 |                   |             |
| 7410        | 51.62        | H         | 74    | -22.38 | Peak            | 1.71            | 225               |             |
| 7410        | 41.31        | H         | 54    | -12.69 | Avg             | 1.71            | 225               |             |
|             |              |           |       |        |                 |                 |                   |             |
| 9880        | 55.51        | H         | 74    | -18.49 | Peak            | 2.45            | 135               |             |
| 9880        | 43.7         | H         | 54    | -10.3  | Avg             | 2.45            | 135               |             |
|             |              |           |       |        |                 |                 |                   |             |
| 12350       | 53.16        | H         | 74    | -20.84 | Peak            | 1.68            | 153               |             |
| 12350       | 39.74        | H         | 54    | -14.26 | Avg             | 1.68            | 135               |             |
|             |              |           |       |        |                 |                 |                   |             |
| 14820       |              | H         | 74    | -74    | Peak            |                 |                   | No Emission |
| 14820       |              | H         | 54    | -54    | Avg             |                 |                   | Detected    |
|             |              |           |       |        |                 |                 |                   |             |
| 17290       |              | H         | 74    | -74    | Peak            |                 |                   | No Emission |
| 17290       |              | H         | 54    | -54    | Avg             |                 |                   | Detected    |
|             |              |           |       |        |                 |                 |                   |             |
| 19760       |              | H         | --    | --     | Peak            |                 |                   | No Emission |
| 19760       |              | H         | --    | --     | Avg             |                 |                   | Detected    |
|             |              |           |       |        |                 |                 |                   |             |
| 22230       |              | H         | --    | --     | Peak            |                 |                   | No Emission |
| 22230       |              | H         | --    | --     | Avg             |                 |                   | Detected    |
|             |              |           |       |        |                 |                 |                   |             |
| 24700       |              | H         | --    | --     | Peak            |                 |                   | No Emission |
| 24700       |              | H         | --    | --     | Avg             |                 |                   | Detected    |
|             |              |           |       |        |                 |                 |                   |             |



**Test Location** : Compatible Electronics  
**Customer** : Interlink Electronics  
**Manufacturer** : Interlink Electronics  
**Eut name** : Remote Control (Onyx)  
**Model** : VP4700R  
**Serial #** : N/A  
**Specification** : FCC Class B  
**Distance correction factor (20 \* log(test/spec))** : 0.00  
**Test Mode** : Radiated Emissions - 10 kHz - 1 GHz  
Vertical and Horizontal Polarization  
Y-Axis - Worst Case - Transmit Mode  
Test Engineer: Kyle Fujimoto

**Page** : 1/1  
**Date** : 9/11/2006  
**Time** : 11:39:02  
**Lab** : D  
**Test Distance** : 3 Meters

| Pol | Freq<br>MHz | Rdng<br>dBuV | Cable<br>loss<br>dB | Ant<br>factor<br>dB | Amp<br>gain<br>dB | Cor'd<br>rdg = R<br>dBuV | Limit<br>= L<br>dBuV/m | Delta<br>R-L<br>dB |
|-----|-------------|--------------|---------------------|---------------------|-------------------|--------------------------|------------------------|--------------------|
| 1H  | 300.000     | 35.90        | 2.50                | 13.58               | 38.40             | 13.58                    | 46.00                  | -32.42             |
| 2H  | 400.000     | 36.60        | 2.90                | 14.53               | 38.00             | 16.03                    | 46.00                  | -29.97             |
| 3H  | 500.000     | 38.50        | 3.20                | 15.36               | 37.50             | 19.56                    | 46.00                  | -26.44             |
| 4V  | 775.000     | 37.10        | 4.45                | 20.22               | 37.34             | 24.43                    | 46.00                  | -21.57             |
| 5V  | 825.000     | 34.70        | 4.70                | 20.66               | 37.10             | 22.96                    | 46.00                  | -23.04             |
| 6V  | 875.000     | 35.90        | 4.90                | 21.67               | 36.90             | 25.57                    | 46.00                  | -20.43             |

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Interlink Electronics, Inc.  
Remote Control (Onyx)  
Model: VP4700R

Date: 09/06/06  
Labs: B and D  
Tested By: Kyle Fujimoto

### Digital Portion of the EUT and Non-Harmonic Emissions from the Transmitter 10 kHz to 25000 MHz

[illegible]

Interlink Electronics, Inc.  
Remote Control (Onyx)  
Model: VP4700R

Date: 09/06/06  
Labs: B and D  
Tested By: Kyle Fujimoto

**Middle Channel - Receive Mode**  
**10 kHz to 25000 MHz**

[illegible]

**FCC 15.249**

Interlink Electronics, Inc.  
Remote Control (Onyx)  
Model: VP4700R

Date: 09/07/06

Lab: B

Tested By: Kyle Fujimoto

**Transmit Mode****Band Edges - Vertical Polarization**

| 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                         |
|----------------|-----------------|-----------|-------|--------|-----------------------|-----------------------|-------------------------|----------------------------------|
| 2405           | 93.64           | V         | 94    | -0.36  | Peak                  | 2.74                  | 135                     | Fundamental of Low Channel       |
| 2405           | 92.66           | V         | 94    | -1.34  | Avg                   | 2.74                  | 135                     | @ 3 Meters - Y-Axis (worst case) |
|                |                 |           |       |        |                       |                       |                         |                                  |
| 2400           | 61.23           | V         | 74    | -12.77 | Peak                  | 2.74                  | 135                     | <b>Band Edge Low Channel</b>     |
| 2400           | 26.33           | V         | 54    | -27.67 | Avg                   | 2.74                  | 135                     | <b>@ 3 Meters</b>                |
|                |                 |           |       |        |                       |                       |                         |                                  |
| 2470           | 93.77           | V         | 94    | -0.23  | Peak                  | 2.24                  | 315                     | Fundamental of High Channel      |
| 2470           | 92.79           | V         | 94    | -1.21  | Avg                   | 2.24                  | 315                     | @ 3 Meters - Y-Axis (worst case) |
|                |                 |           |       |        |                       |                       |                         |                                  |
| 2483.5         | 52.59           | V         | 54    | -1.41  | Peak                  | 2.24                  | 315                     | <b>Band Edge High Channel</b>    |
|                |                 |           |       |        |                       |                       |                         | <b>@ 3 Meters</b>                |
|                |                 |           |       |        |                       |                       |                         |                                  |

Interlink Electronics, Inc.  
Remote Control (Onyx)  
Model: VP4700R

Date: 09/07/06  
Lab: B  
Tested By: Kyle Fujimoto

### Band Edges - Horizontal Polarization

[illegible]