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|                 |                  |
|-----------------|------------------|
| Job Number:     | 1001145700       |
| Project Number: | 09CA32738A       |
| File Number:    | MC16272          |
| Date:           | October 05, 2009 |
| Model:          | LRA1720          |

## Electromagnetic Compatibility Test Report

For

**Philips Lighting Electronics N. A.**

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Job #: 1001132501    File #: MC16272    Project #: 09CA32738A  
Model Number: LRA1720  
Client Name: Philips Lighting Electronics N. A.

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## Test Report Details

Tests Performed By: **Underwriters Laboratories Inc.  
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Northbrook, IL 60062**

Tests Performed For: **Philips Lighting Electronics N. A.  
10275 West Higgins Road  
Rosemont, IL 60018**

Applicant Contact: **Richard Haring**  
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Test Report Date: **October 05, 2009**

Product Type: **Wireless Wall Switch**

Product standards **FCC Part 15, Subpart B**

Model Number: LRA1720

EUT Category: **Lighting Products**

Testing Start Date: **September 21, 2009**

Date Testing Complete: **September 24, 2009**

**Overall Results: Compliant**

Underwriters Laboratories Inc. reports apply only to the specific samples tested under stated test conditions. All samples tested were in good operating condition throughout the entire test program. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. Underwriters Laboratories Inc. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from Underwriters Laboratories Inc. issued reports. This report shall not be used to claim, constitute or imply product certification, approval, or endorsement by NVLAP, NIST, A2LA, or any agency of the US government.

This report may contain test results that are not covered by the NVLAP or A2LA accreditation. The scope of accreditation is limited to the specific tests that are listed on the NVLAP and/or A2LA websites referenced at the end of this report.

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Report Revision History

| Revision Date | Description | Revised By | Revision Reviewed By |
|---------------|-------------|------------|----------------------|
| None          |             |            |                      |

## 1.0 GENERAL - Product Description

### 1.1 Equipment Description

The Philips OccuSwitch™ Wireless Control System is an advanced wireless occupancy sensor system that automatically turns lights off when a workspace is unoccupied. The system consists of a wireless battery-powered ceiling mounted sensor that communicates to a wall switch. Multiple sensors and switches can be used for additional coverage. Compliance to California Title 24 Energy Efficiency Standards is easily accomplished with a configurable mode for manual-on / auto-off operation.

### 1.2 Device Configuration During Test

#### 1.2.1 Equipment Used During Test:

| Use | Product Type | Manufacturer                       | Model   | Comments |
|-----|--------------|------------------------------------|---------|----------|
| EUT | OccuSwitch   | Philips Lighting Electronics N. A. | LRA1720 | None     |

Note: **EUT** - Equipment Under Test, **AE** - Auxiliary/Associated Equipment, or **SIM** - Simulator (Not Subjected to Test)

#### 1.2.2 Input/Output Ports:

| Port # | Name      | Type* | Cable Max. >3m (Y/N) | Cable Shielded (Y/N) | Comments |
|--------|-----------|-------|----------------------|----------------------|----------|
| 0      | Enclosure | N/E   | —                    | —                    | None     |
| 1      | Mains     | AC    | Y                    | N                    | None     |
| 2      | Antenna   | -     | N                    | N                    | None     |

Note:  
 AC = AC Power Port      DC = DC Power Port      N/E = Non-Electrical  
 I/O = Signal Input or Output Port (Not Involved in Process Control)  
 TP = Telecommunication Ports

#### 1.2.3 EUT Internal Operating Frequencies:

| Frequency (MHz) | Description            |
|-----------------|------------------------|
| 32              | X-Tal Oscillator       |
| 0.032768        | Sleep Timer Oscillator |
| 0.032           | RC - Oscillator        |

#### 1.2.4 Power Interface:

| Mode #<br>/Rated | Voltage<br>(V) | Current<br>(A) | Power<br>(W) | Frequency<br>(DC/AC-Hz) | Phases<br>(#) | Comments |
|------------------|----------------|----------------|--------------|-------------------------|---------------|----------|
| 1                | 120            | -              | -            | AC-60                   | 1             | None     |
| 2                | 277            | -              | -            | AC-60                   | 1             | None     |

#### 1.3 EUT Configurations

| Mode # | Description   |
|--------|---|
| 1      | EUT was configured on 80cm wooden table and connected to LISNs. The AC output of the switch was not terminated into a load.                       |
| 2      | EUT was configured on 80cm Styrofoam with cable routed vertically into a power source. The AC output of the switch was not terminated into a load |
| 3      | EUT was configured on bench top with it's RF output connected directly into a measuring device (Oscilloscope or Spectrum Analyzer)                |

#### 1.4 EUT Operation Modes

| Mode # | Description  |
|--------|--|
| 1      | EUT was set to continuously transmit on a single channel with full output power.   |
| 2      | EUT was set to receive on a single channel. This is also considered as standby mode.   |
| 3      | EUT was loaded with normal software. A multiple attempts were made to create a link between different devices (other switch and a sensor) to produce the worst case duty cycle factor. |

## 2.0    **Summary**

The tests listed in the Summary of Testing section of this report have been performed and the results recorded by Underwriters Laboratories Inc. in accordance with the procedures stated in each test requirement and specification. The applicant determined the list of tests performed were applicable to the Equipment Under Test. As a result, the subject product has been verified to comply or not comply as noted in the Summary of Testing with each test specification. The test results relate only to the items tested.

### 2.1    **Deviations from standard test methods**

|      |
|------|
| None |
|------|

### 2.2    **Device Modifications Necessary for Compliance**

|      |
|------|
| None |
|------|

## 2.3 Reference Standards

Product is considered Class A per Part 15, Subpart B

| Standard Number                 | Standard Name   | Standard Date |
|---------------------------------|---|---------------|
| FCC Part 15, Subpart B & 15.247 | Code of Federal Regulations, Part 15, Radio Frequency Devices                                   | 2009          |
| RSS-210, Issue 7                | Low-Power License-Exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment | June 2007     |
| RSS-Gen, Issue 2                | General Requirements and Information for the Certification of Radiocommunication Equipment      | June 2007     |

## 2.4 Results Summary

| Requirement – Test                                  | References  | Result (Compliant / Non-Compliant)* |
|---|---|-------------------------------------|
| Conducted Emissions - Mains                         | 47 CFR Part 15.107, 15.207<br>RSS-Gen 7.2.2                       | Compliant                           |
| Radiated Emissions - Digital                        | 47 CFR Part 15.209<br>RSS-Gen 7.2.3                               | Compliant                           |
| Spurious Emissions (Antenna Conducted and Radiated) | 47 CFR Part 15.247(d)<br>RSS-210, A8.5<br>RSS-Gen 7.2.1 and 7.2.3 | Compliant                           |
| Bandedge Compliance                                 | 47 CFR Part 15.247(d)<br>RSS-210, A8.5                            | Compliant                           |
| Duty Cycle and Duty Cycle Factor                    | 47 CFR Part 15.35(c)<br>RSS-Gen 4.5                               | Compliant                           |
| 6dB Bandwidth                                       | 47 CFR Part 15.247(a)(2)<br>RSS-210, A8.2(a)                      | Compliant                           |
| Peak Power  | 47 CFR Part 15.247(b)(3)<br>RSS-210, A8.4(4)                      | Compliant                           |
| Power Spectral Density                              | 47 CFR Part 15.247(e)<br>RSS-210, A8.2(b)                         | Compliant                           |
| 99% Occupied Bandwidth                              | RSS-Gen, 4.6.1  | Compliant                           |

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### 3.0 Calibration of Equipment Used for Measurement

All test equipment and test accessories are calibrated on a regular basis. The maximum time between calibrations is one year or the manufacturers' recommendation, whichever is less.

All test equipment calibrations are traceable to the National Institute of Standards and Technology (NIST); therefore, all test data recorded in this report is traceable to NIST.

### 4.0 EMISSIONS TEST RESULTS

The emissions tests were performed according to following regulations:

----- United States -----

|                                      |   |
|--------------------------------------|---|
| Code of Federal Regulations Title 47 | Part 15, Subpart B, Radio Frequency Devices |
|--------------------------------------|---|

----- Canada -----

|                 |  |
|-----------------|--|
| Industry Canada | Spectrum Management and Telecommunications<br>Radio Standards Specifications |
|-----------------|--|

Unless specified otherwise in the individual Methods, the tests shall be conducted under the following ambient conditions. Confirmation of these conditions shall be verified at the time the test is conducted.

|                         |            |                      |         |                           |           |
|-------------------------|------------|----------------------|---------|---------------------------|-----------|
| Ambient Temperature, °C | 22.5 ± 2.5 | Relative Humidity, % | 45 ± 15 | Barometric Pressure, mBar | 950 ± 150 |
|-------------------------|------------|----------------------|---------|---------------------------|-----------|



#### 4.1 Test Conditions and Results – MAINS TERMINAL – CONDUCTED EMISSIONS

|  |   |                   |
|--|---|-------------------|
| Test Description   | Measurements were made on a ground plane. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN. |                   |
| Basic Standard   | 47 CFR Part 15.107, 15.207<br>RSS-Gen 7.2.2   |                   |
| UL LPG   | 80-EM-S0026   |                   |
|  | Frequency range on each side of line  | Measurement Point |
| Fully configured sample scanned over the following frequency range | 150kHz to 30MHz   | Mains             |
| <b>Limits - Class A</b>  |   |                   |
| Frequency (MHz)  | Limit (dB $\mu$ V)  |                   |
|  | Quasi-Peak  | Average           |
| 0.15-0.5   | 79  | 66                |
| 0.5-30   | 73  | 60                |
| Supplementary information: None                                    |   |                   |

**Table 1 Conducted Emissions EUT Configuration Settings**

| Power Interface Mode #          | EUT Configurations Mode # | EUT Operation Mode # |
|---------------------------------|---------------------------|----------------------|
| 1 & 2                           | 1                         | 1                    |
| Supplementary information: None |                           |                      |

**Table 2 Conducted Emissions Test Equipment**

| Description                          | Manufacturer      | Model           | Identifier |
|--------------------------------------|-------------------|-----------------|------------|
| EMI Test Receiver                    | Rohde & Schwarz   | ESCI            | EMC4328    |
| Transient Limiter                    | Electro-Metrics   | EM7600-2        | EMC4224    |
| HighPass Filter                      | Solar Electronics | 2803-150        | 885551     |
| Attenuator                           | HP                | 8494B           | 2831A00838 |
| LISN - L1                            | Solar             | 8602-50-TS-50-N | EMC4052    |
| LISN - L2                            | Solar             | 8602-50-TS-50-N | EMC4064    |
| <b>FILE USED FOR TESTING</b>         |                   |                 |            |
| CISPR 22_11 w_ Dongle Line land2.TST |                   |                 |            |

**Figure 1 Test Setup for Conducted Emissions**

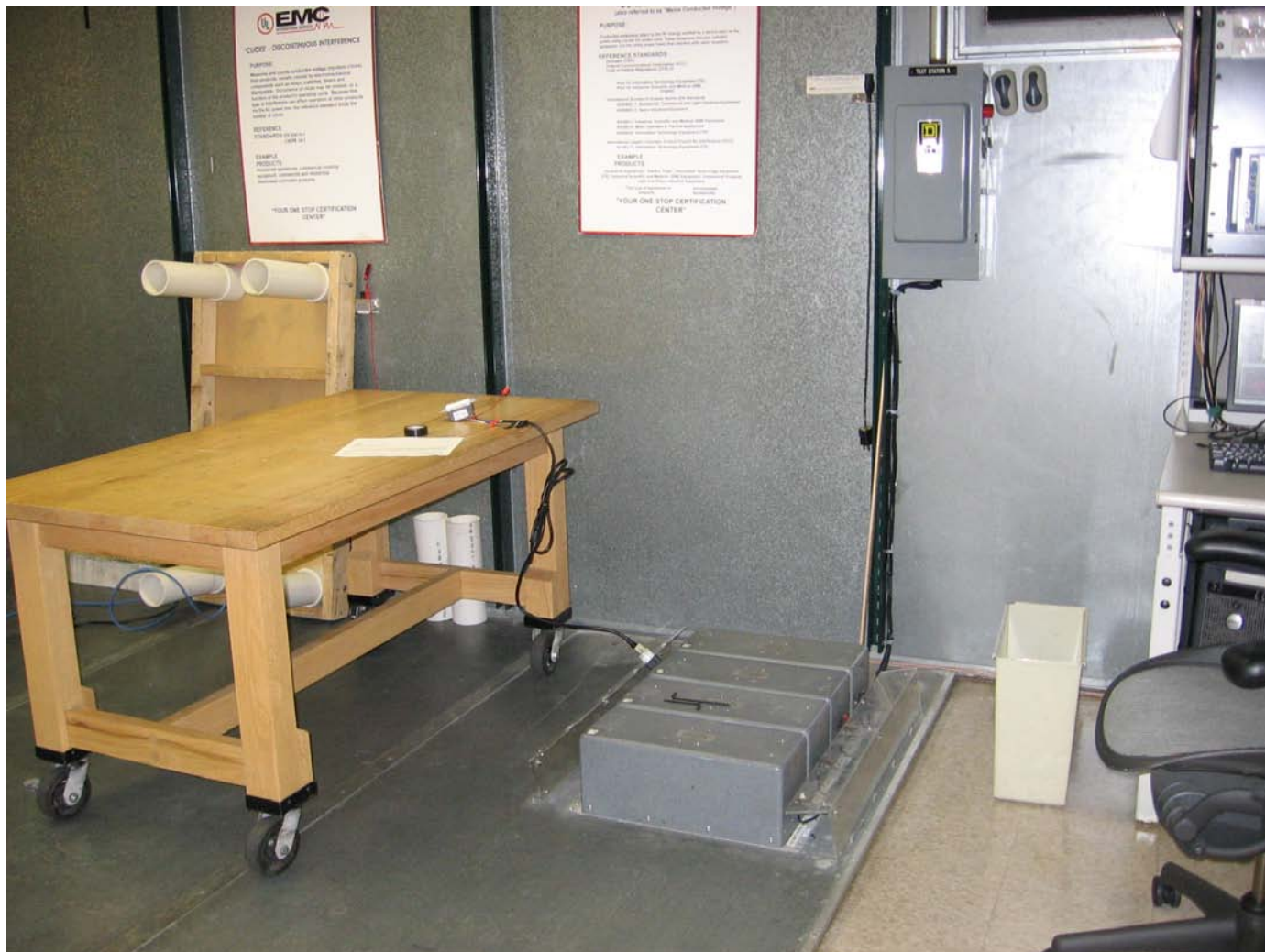
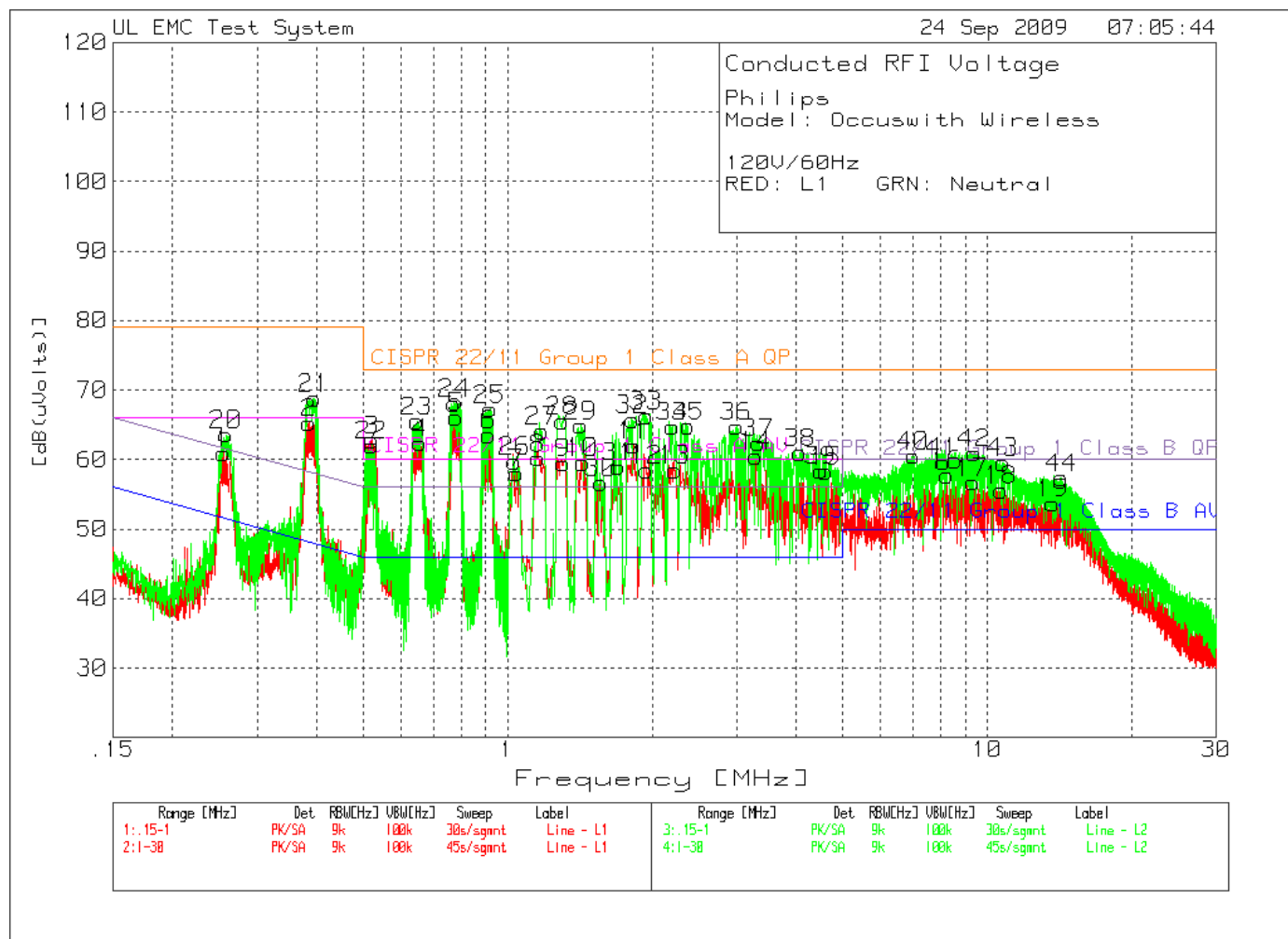


Figure 2 Conducted Emissions Graph 120V/60Hz



**Table 3 Conducted Emissions Data Points 120V/60Hz**

Philips  
 Model: Occuswith Wireless  
 120V/60Hz  
 RED: L1    GRN: Neutral

| Line - Peak Scan Data |                      |                        |                       |                        |                            |       |       |       |      |   |
|-----------------------|----------------------|------------------------|-----------------------|------------------------|----------------------------|-------|-------|-------|------|---|
| No.                   | Test Frequency [MHz] | Meter Reading [dB(uV)] | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level Limit:1 [dB(uVolts)] | 2     | 3     | 4     | 5    | 6 |
| 1                     | .25505               | 49.06 pk               | 11.1                  | .8                     | 60.96                      | 79    | 66    | 61.6  | 51.6 | - |
|                       |                      |                        |                       | Margin [dB]            | -18.04                     | -5.04 | -.64  | 9.36  | -    | - |
| 2                     | .38444               | 54.05 pk               | 10.7                  | .5                     | 65.25                      | 79    | 66    | 58.2  | 48.2 | - |
|                       |                      |                        |                       | Margin [dB]            | -13.75                     | -.75  | 7.05  | 17.05 | -    | - |
| 3                     | .52064               | 51.9 pk                | 10.6                  | .3                     | 62.8                       | 73    | 60    | 56    | 46   | - |
|                       |                      |                        |                       | Margin [dB]            | -10.2                      | 2.8   | 6.8   | 16.8  | -    | - |
| 4                     | .65655               | 51.62 pk               | 10.5                  | .3                     | 62.42                      | 73    | 60    | 56    | 46   | - |
|                       |                      |                        |                       | Margin [dB]            | -10.58                     | 2.42  | 6.42  | 16.42 | -    | - |
| 5                     | .78028               | 55.42 pk               | 10.5                  | .2                     | 66.12                      | 73    | 60    | 56    | 46   | - |
|                       |                      |                        |                       | Margin [dB]            | -6.88                      | 6.12  | 10.12 | 20.12 | -    | - |
| 6                     | .91279               | 52.86 pk               | 10.5                  | .2                     | 63.56                      | 73    | 60    | 56    | 46   | - |
|                       |                      |                        |                       | Margin [dB]            | -9.44                      | 3.56  | 7.56  | 17.56 | -    | - |
| 7                     | 1.04346              | 47.36 pk               | 10.5                  | .2                     | 58.06                      | 73    | 60    | 56    | 46   | - |
|                       |                      |                        |                       | Margin [dB]            | -14.94                     | -1.94 | 2.06  | 12.06 | -    | - |
| 8                     | 1.15937              | 49.47 pk               | 10.5                  | .2                     | 60.17                      | 73    | 60    | 56    | 46   | - |
|                       |                      |                        |                       | Margin [dB]            | -12.83                     | .17   | 4.17  | 14.17 | -    | - |
| 9                     | 1.30908              | 48.81 pk               | 10.5                  | .2                     | 59.51                      | 73    | 60    | 56    | 46   | - |
|                       |                      |                        |                       | Margin [dB]            | -13.49                     | -.49  | 3.51  | 13.51 | -    | - |
| 10                    | 1.43464              | 48.89 pk               | 10.5                  | .2                     | 59.59                      | 73    | 60    | 56    | 46   | - |
|                       |                      |                        |                       | Margin [dB]            | -13.41                     | -.41  | 3.59  | 13.59 | -    | - |
| 11                    | 1.83064              | 51.21 pk               | 10.6                  | .2                     | 62.01                      | 73    | 60    | 56    | 46   | - |
|                       |                      |                        |                       | Margin [dB]            | -10.99                     | 2.01  | 6.01  | 16.01 | -    | - |
| 12                    | 1.94655              | 47.69 pk               | 10.6                  | .2                     | 58.49                      | 73    | 60    | 56    | 46   | - |
|                       |                      |                        |                       | Margin [dB]            | -14.51                     | -1.51 | 2.49  | 12.49 | -    | - |
| 13                    | 2.23147              | 47.72 pk               | 10.6                  | .2                     | 58.52                      | 73    | 60    | 56    | 46   | - |
|                       |                      |                        |                       | Margin [dB]            | -14.48                     | -1.48 | 2.52  | 12.52 | -    | - |
| 14                    | 3.29392              | 49.69 pk               | 10.6                  | .2                     | 60.49                      | 73    | 60    | 56    | 46   | - |
|                       |                      |                        |                       | Margin [dB]            | -12.51                     | .49   | 4.49  | 14.49 | -    | - |
| 15                    | 4.60749              | 47.51 pk               | 10.6                  | .2                     | 58.31                      | 73    | 60    | 56    | 46   | - |
|                       |                      |                        |                       | Margin [dB]            | -14.69                     | -1.69 | 2.31  | 12.31 | -    | - |
| 16                    | 8.25362              | 46.68 pk               | 10.8                  | .3                     | 57.78                      | 73    | 60    | 60    | 50   | - |
|                       |                      |                        |                       | Margin [dB]            | -15.22                     | -2.22 | -2.22 | 7.78  | -    | - |
| 17                    | 9.33056              | 45.42 pk               | 10.9                  | .4                     | 56.72                      | 73    | 60    | 60    | 50   | - |
|                       |                      |                        |                       | Margin [dB]            | -16.28                     | -3.28 | -3.28 | 6.72  | -    | - |
| 18                    | 10.68759             | 44.32 pk               | 10.9                  | .4                     | 55.62                      | 73    | 60    | 60    | 50   | - |
|                       |                      |                        |                       | Margin [dB]            | -17.38                     | -4.38 | -4.38 | 5.62  | -    | - |
| 19                    | 13.71074             | 42.28 pk               | 11.1                  | .3                     | 53.68                      | 73    | 60    | 60    | 50   | - |
|                       |                      |                        |                       | Margin [dB]            | -19.32                     | -6.32 | -6.32 | 3.68  | -    | - |

Model Number:

LRA1720

Client Name:

Philips Lighting Electronics N. A.

## Neutral - Peak Scan Data

| No. | Test<br>Frequency<br>[MHz] | Meter<br>Reading<br>[dB(uV)] | Gain/Loss<br>Factor<br>[dB] | Transducer<br>Factor<br>[dB] | Level<br>[dB(uVolts)] | Limit:1 | 2     | 3     | 4     | 5 | 6 |
|-----|----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------|---------|-------|-------|-------|---|---|
| 20  | .25873                     | 51.8 pk                      | 11                          | .8                           | 63.6                  | 79      | 66    | 61.5  | 51.5  | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -15.4   | -2.4  | 2.1   | 12.1  | - | - |
| 21  | .3952                      | 57.7 pk                      | 10.7                        | .4                           | 68.8                  | 79      | 66    | 58    | 48    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -10.2   | 2.8   | 10.8  | 20.8  | - | - |
| 22  | .52035                     | 51.21 pk                     | 10.5                        | .3                           | 62.01                 | 73      | 60    | 56    | 46    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -10.99  | 2.01  | 6.01  | 16.01 | - | - |
| 23  | .64692                     | 54.82 pk                     | 10.5                        | .2                           | 65.52                 | 73      | 60    | 56    | 46    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -7.48   | 5.52  | 9.52  | 19.52 | - | - |
| 24  | .77377                     | 57.38 pk                     | 10.5                        | .2                           | 68.08                 | 73      | 60    | 56    | 46    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -4.92   | 8.08  | 12.08 | 22.08 | - | - |
| 25  | .91817                     | 56.53 pk                     | 10.5                        | .2                           | 67.23                 | 73      | 60    | 56    | 46    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -5.77   | 7.23  | 11.23 | 21.23 | - | - |
| 26  | 1.03381                    | 49.06 pk                     | 10.5                        | .2                           | 59.76                 | 73      | 60    | 56    | 46    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -13.24  | -.24  | 3.76  | 13.76 | - | - |
| 27  | 1.17868                    | 53.52 pk                     | 10.5                        | .1                           | 64.12                 | 73      | 60    | 56    | 46    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -8.88   | 4.12  | 8.12  | 18.12 | - | - |
| 28  | 1.29942                    | 54.96 pk                     | 10.5                        | .1                           | 65.56                 | 73      | 60    | 56    | 46    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -7.44   | 5.56  | 9.56  | 19.56 | - | - |
| 29  | 1.42015                    | 54.28 pk                     | 10.5                        | .1                           | 64.88                 | 73      | 60    | 56    | 46    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -8.12   | 4.88  | 8.88  | 18.88 | - | - |
| 30  | 1.56503                    | 46.06 pk                     | 10.5                        | .1                           | 56.66                 | 73      | 60    | 56    | 46    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -16.34  | -3.34 | .66   | 10.66 | - | - |
| 31  | 1.70025                    | 48.38 pk                     | 10.5                        | .1                           | 58.98                 | 73      | 60    | 56    | 46    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -14.02  | -1.02 | 2.98  | 12.98 | - | - |
| 32  | 1.82098                    | 55.05 pk                     | 10.6                        | .1                           | 65.75                 | 73      | 60    | 56    | 46    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -7.25   | 5.75  | 9.75  | 19.75 | - | - |
| 33  | 1.94655                    | 55.59 pk                     | 10.6                        | .1                           | 66.29                 | 73      | 60    | 56    | 46    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -6.71   | 6.29  | 10.29 | 20.29 | - | - |
| 34  | 2.20733                    | 54.07 pk                     | 10.6                        | .1                           | 64.77                 | 73      | 60    | 56    | 46    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -8.23   | 4.77  | 8.77  | 18.77 | - | - |
| 35  | 2.38118                    | 54.1 pk                      | 10.6                        | .1                           | 64.8                  | 73      | 60    | 56    | 46    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -8.2    | 4.8   | 8.8   | 18.8  | - | - |
| 36  | 2.99933                    | 54.02 pk                     | 10.6                        | .1                           | 64.72                 | 73      | 60    | 56    | 46    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -8.28   | 4.72  | 8.72  | 18.72 | - | - |
| 37  | 3.33256                    | 51.72 pk                     | 10.6                        | .1                           | 62.42                 | 73      | 60    | 56    | 46    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -10.58  | 2.42  | 6.42  | 16.42 | - | - |
| 38  | 4.07144                    | 50.3 pk                      | 10.6                        | .1                           | 61                    | 73      | 60    | 56    | 46    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -12     | 1     | 5     | 15    | - | - |
| 39  | 4.49642                    | 47.68 pk                     | 10.6                        | .1                           | 58.38                 | 73      | 60    | 56    | 46    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -14.62  | -1.62 | 2.38  | 12.38 | - | - |
| 40  | 7.02215                    | 49.62 pk                     | 10.7                        | .2                           | 60.52                 | 73      | 60    | 60    | 50    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -12.48  | .52   | .52   | 10.52 | - | - |
| 41  | 8.09426                    | 48.67 pk                     | 10.8                        | .2                           | 59.67                 | 73      | 60    | 60    | 50    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -13.33  | -.33  | -.33  | 9.67  | - | - |
| 42  | 9.40783                    | 49.71 pk                     | 10.9                        | .3                           | 60.91                 | 73      | 60    | 60    | 50    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -12.09  | .91   | .91   | 10.91 | - | - |
| 43  | 10.8035                    | 48.29 pk                     | 10.9                        | .4                           | 59.59                 | 73      | 60    | 60    | 50    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -13.41  | -.41  | -.41  | 9.59  | - | - |
| 44  | 14.29992                   | 45.88 pk                     | 11.2                        | .3                           | 57.38                 | 73      | 60    | 60    | 50    | - | - |
|     |                            |                              |                             | Margin [dB]                  |                       | -15.62  | -2.62 | -2.62 | 7.38  | - | - |

LIMIT 1: CISPR 22/11 Group 1 Class A QP

LIMIT 2: CISPR 22/11 Group 1 Class A AV

LIMIT 3: CISPR 22/11 Group 1 Class B QP

LIMIT 4: CISPR 22/11 Group 1 Class B AV

Job #: 1001132501    File #: MC16272    Project #: 09CA32738A  
 Model Number:        LRA1720  
 Client Name:         Philips Lighting Electronics N. A.

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Philips  
 Model: Occuswith Wireless  
 120V/60Hz  
 RED: L1    GRN: Neutral

Quasi-Peak Measurements - Line Side

| Test<br>Frequency<br>[MHz] | Meter<br>Reading<br>[dB(uV)] | Gain/Loss<br>Factor<br>[dB] | Transducer<br>Factor<br>[dB] | Level Limit:1<br>[dB(uVolts)] | 2      | 3      | 4     | 5    | 6 |   |
|----------------------------|------------------------------|-----------------------------|------------------------------|-------------------------------|--------|--------|-------|------|---|---|
| .25505                     | 43.61 qp                     | 11.1                        | .8                           | 55.51                         | 79     | 66     | 61.6  | 51.6 | - | - |
|                            |                              |                             | Margin [dB]:                 | -23.49                        | -10.49 | -6.09  | 3.91  | -    | - | - |
| .38444                     | 48.7 qp                      | 10.7                        | .5                           | 59.9+                         | 79     | 66     | 58.2  | 48.2 | - | - |
|                            |                              |                             | Margin [dB]:                 | -19.1                         | -6.1   | 1.7    | 11.7  | -    | - | - |
| .52064                     | 42.73 qp                     | 10.6                        | .3                           | 53.63                         | 73     | 60     | 56    | 46   | - | - |
|                            |                              |                             | Margin [dB]:                 | -19.37                        | -6.37  | -2.37  | 7.63  | -    | - | - |
| .65655                     | 46.81 qp                     | 10.5                        | .3                           | 57.61+                        | 73     | 60     | 56    | 46   | - | - |
|                            |                              |                             | Margin [dB]:                 | -15.39                        | -2.39  | 1.61   | 11.61 | -    | - | - |
| .78028                     | 48.71 qp                     | 10.5                        | .2                           | 59.41+                        | 73     | 60     | 56    | 46   | - | - |
|                            |                              |                             | Margin [dB]:                 | -13.59                        | -.59   | 3.41   | 13.41 | -    | - | - |
| .91279                     | 45.88 qp                     | 10.5                        | .2                           | 56.58+                        | 73     | 60     | 56    | 46   | - | - |
|                            |                              |                             | Margin [dB]:                 | -16.42                        | -3.42  | .58    | 10.58 | -    | - | - |
| 1.04346                    | 42.02 qp                     | 10.5                        | .2                           | 52.72                         | 73     | 60     | 56    | 46   | - | - |
|                            |                              |                             | Margin [dB]:                 | -20.28                        | -7.28  | -3.28  | 6.72  | -    | - | - |
| 1.15937                    | 45.37 qp                     | 10.5                        | .2                           | 56.07+                        | 73     | 60     | 56    | 46   | - | - |
|                            |                              |                             | Margin [dB]:                 | -16.93                        | -3.93  | .07    | 10.07 | -    | - | - |
| 1.30908                    | 44.96 qp                     | 10.5                        | .2                           | 55.66                         | 73     | 60     | 56    | 46   | - | - |
|                            |                              |                             | Margin [dB]:                 | -17.34                        | -4.34  | -.34   | 9.66  | -    | - | - |
| 1.43464                    | 42.46 qp                     | 10.5                        | .2                           | 53.16                         | 73     | 60     | 56    | 46   | - | - |
|                            |                              |                             | Margin [dB]:                 | -19.84                        | -6.84  | -2.84  | 7.16  | -    | - | - |
| 1.83064                    | 44.44 qp                     | 10.6                        | .2                           | 55.24                         | 73     | 60     | 56    | 46   | - | - |
|                            |                              |                             | Margin [dB]:                 | -17.76                        | -4.76  | -.76   | 9.24  | -    | - | - |
| 1.94655                    | 44.24 qp                     | 10.6                        | .2                           | 55.04                         | 73     | 60     | 56    | 46   | - | - |
|                            |                              |                             | Margin [dB]:                 | -17.96                        | -4.96  | -.96   | 9.04  | -    | - | - |
| 2.23147                    | 43.84 qp                     | 10.6                        | .2                           | 54.64                         | 73     | 60     | 56    | 46   | - | - |
|                            |                              |                             | Margin [dB]:                 | -18.36                        | -5.36  | -1.36  | 8.64  | -    | - | - |
| 3.29392                    | 41.64 qp                     | 10.6                        | .2                           | 52.44                         | 73     | 60     | 56    | 46   | - | - |
|                            |                              |                             | Margin [dB]:                 | -20.56                        | -7.56  | -3.56  | 6.44  | -    | - | - |
| 4.60749                    | 37.48 qp                     | 10.6                        | .2                           | 48.28                         | 73     | 60     | 56    | 46   | - | - |
|                            |                              |                             | Margin [dB]:                 | -24.72                        | -11.72 | -7.72  | 2.28  | -    | - | - |
| 8.25362                    | 37.17 qp                     | 10.8                        | .3                           | 48.27                         | 73     | 60     | 60    | 50   | - | - |
|                            |                              |                             | Margin [dB]:                 | -24.73                        | -11.73 | -11.73 | -1.73 | -    | - | - |
| 9.33056                    | 37.15 qp                     | 10.9                        | .4                           | 48.45                         | 73     | 60     | 60    | 50   | - | - |
|                            |                              |                             | Margin [dB]:                 | -24.55                        | -11.55 | -11.55 | -1.55 | -    | - | - |
| 10.68759                   | 36.61 qp                     | 10.9                        | .4                           | 47.91                         | 73     | 60     | 60    | 50   | - | - |
|                            |                              |                             | Margin [dB]:                 | -25.09                        | -12.09 | -12.09 | -2.09 | -    | - | - |
| 13.71074                   | 34.91 qp                     | 11.1                        | .3                           | 46.31                         | 73     | 60     | 60    | 50   | - | - |
|                            |                              |                             | Margin [dB]:                 | -26.69                        | -13.69 | -13.69 | -3.69 | -    | - | - |

Job #: 1001132501    File #: MC16272    Project #: 09CA32738A  
 Model Number: LRA1720  
 Client Name: Philips Lighting Electronics N. A.

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Philips  
 Model: Occuswith Wireless  
 120V/60Hz  
 RED: L1    GRN: Neutral

Quasi-Peak Measurements - Neutral Side

| Test Frequency [MHz] | Meter Reading [dB(uV)] | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB(uVolts)] | Limit:1 | 2      | 3      | 4     | 5 | 6 |
|----------------------|------------------------|-----------------------|------------------------|--------------------|---------|--------|--------|-------|---|---|
| .25873               | 48.45 qp               | 11                    | .8                     | 60.25              | 79      | 66     | 61.5   | 51.5  | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -18.75  | -5.75  | -1.25  | 8.75  | - | - |
| .3952                | 54.73 qp               | 10.7                  | .4                     | 65.83+             | 79      | 66     | 58     | 48    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -13.17  | -1.17  | 7.83   | 17.83 | - | - |
| .52035               | 44.45 qp               | 10.5                  | .3                     | 55.25              | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -17.75  | -4.75  | - .75  | 9.25  | - | - |
| .64692               | 50.98 qp               | 10.5                  | .2                     | 61.68+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -11.32  | 1.68   | 5.68   | 15.68 | - | - |
| .77377               | 54.17 qp               | 10.5                  | .2                     | 64.87+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -8.13   | 4.87   | 8.87   | 18.87 | - | - |
| .91817               | 52.58 qp               | 10.5                  | .2                     | 63.28+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -9.72   | 3.28   | 7.28   | 17.28 | - | - |
| 1.03381              | 43.61 qp               | 10.5                  | .2                     | 54.31              | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -18.69  | -5.69  | -1.69  | 8.31  | - | - |
| 1.17868              | 49.85 qp               | 10.5                  | .1                     | 60.45+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -12.55  | .45    | 4.45   | 14.45 | - | - |
| 1.29942              | 51.77 qp               | 10.5                  | .1                     | 62.37+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -10.63  | 2.37   | 6.37   | 16.37 | - | - |
| 1.42015              | 48.8 qp                | 10.5                  | .1                     | 59.4+              | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -13.6   | -.6    | 3.4    | 13.4  | - | - |
| 1.56503              | 42.76 qp               | 10.5                  | .1                     | 53.36              | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -19.64  | -6.64  | -2.64  | 7.36  | - | - |
| 1.70025              | 45.07 qp               | 10.5                  | .1                     | 55.67              | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -17.33  | -4.33  | -.33   | 9.67  | - | - |
| 1.82098              | 50.51 qp               | 10.6                  | .1                     | 61.21+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -11.79  | 1.21   | 5.21   | 15.21 | - | - |
| 1.94655              | 50.96 qp               | 10.6                  | .1                     | 61.66+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -11.34  | 1.66   | 5.66   | 15.66 | - | - |
| 2.20733              | 47.82 qp               | 10.6                  | .1                     | 58.52+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -14.48  | -1.48  | 2.52   | 12.52 | - | - |
| 2.38118              | 48.56 qp               | 10.6                  | .1                     | 59.26+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -13.74  | -.74   | 3.26   | 13.26 | - | - |
| 2.99933              | 47.15 qp               | 10.6                  | .1                     | 57.85+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -15.15  | -2.15  | 1.85   | 11.85 | - | - |
| 3.33256              | 45.7 qp                | 10.6                  | .1                     | 56.4+              | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -16.6   | -3.6   | .4     | 10.4  | - | - |
| 4.07144              | 44.99 qp               | 10.6                  | .1                     | 55.69              | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -17.31  | -4.31  | -.31   | 9.69  | - | - |
| 4.49642              | 43.45 qp               | 10.6                  | .1                     | 54.15              | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -18.85  | -5.85  | -1.85  | 8.15  | - | - |
| 7.02215              | 42.72 qp               | 10.7                  | .2                     | 53.62              | 73      | 60     | 60     | 50    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -19.38  | -6.38  | -6.38  | 3.62  | - | - |
| 8.09426              | 42.78 qp               | 10.8                  | .2                     | 53.78              | 73      | 60     | 60     | 50    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -19.22  | -6.22  | -6.22  | 3.78  | - | - |
| 9.40783              | 42.38 qp               | 10.9                  | .3                     | 53.58              | 73      | 60     | 60     | 50    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -19.42  | -6.42  | -6.42  | 3.58  | - | - |
| 10.8035              | 40.91 qp               | 10.9                  | .4                     | 52.21              | 73      | 60     | 60     | 50    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -20.79  | -7.79  | -7.79  | 2.21  | - | - |
| 14.29992             | 37.91 qp               | 11.2                  | .3                     | 49.41              | 73      | 60     | 60     | 50    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -23.59  | -10.59 | -10.59 | -.59  | - | - |

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

PK - Peak detector  
 QP - Quasi-Peak detector

LIMIT 1: CISPR 22/11 Group 1 Class A QP  
 LIMIT 2: CISPR 22/11 Group 1 Class A AV  
 LIMIT 3: CISPR 22/11 Group 1 Class B QP  
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

Job #: 1001132501    File #: MC16272    Project #: 09CA32738A  
 Model Number: LRA1720  
 Client Name: Philips Lighting Electronics N. A.

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Philips  
 Model: Occuswith Wireless  
 120V/60Hz  
 RED: L1    GRN: Neutral

Average Measurements - Line Side

| Test Frequency [MHz] | Meter Reading [dB(uV)] | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB(uVolts)] | Limit:1 | 2      | 3      | 4      | 5 | 6 |
|----------------------|------------------------|-----------------------|------------------------|--------------------|---------|--------|--------|--------|---|---|
| .25505               | 32.55 AV               | 11.1                  | .8                     | 44.45              | 79      | 66     | 61.6   | 51.6   | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -34.55  | -21.55 | -17.15 | -7.15  | - | - |
| .38444               | 37.79 AV               | 10.7                  | .5                     | 48.99+             | 79      | 66     | 58.2   | 48.2   | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -30.01  | -17.01 | -9.21  | .79    | - | - |
| .52064               | 24.76 AV               | 10.6                  | .3                     | 35.66              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -37.34  | -24.34 | -20.34 | -10.34 | - | - |
| .65655               | 31.2 AV                | 10.5                  | .3                     | 42                 | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -31     | -18    | -14    | -4     | - | - |
| .78028               | 33.85 AV               | 10.5                  | .2                     | 44.55              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -28.45  | -15.45 | -11.45 | -1.45  | - | - |
| .91279               | 29.64 AV               | 10.5                  | .2                     | 40.34              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -32.66  | -19.66 | -15.66 | -5.66  | - | - |
| 1.04346              | 22.09 AV               | 10.5                  | .2                     | 32.79              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -40.21  | -27.21 | -23.21 | -13.21 | - | - |
| 1.15937              | 27.58 AV               | 10.5                  | .2                     | 38.28              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -34.72  | -21.72 | -17.72 | -7.72  | - | - |
| 1.30908              | 26.74 AV               | 10.5                  | .2                     | 37.44              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -35.56  | -22.56 | -18.56 | -8.56  | - | - |
| 1.43464              | 23.06 AV               | 10.5                  | .2                     | 33.76              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -39.24  | -26.24 | -22.24 | -12.24 | - | - |
| 1.83064              | 24.56 AV               | 10.6                  | .2                     | 35.36              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -37.64  | -24.64 | -20.64 | -10.64 | - | - |
| 1.94655              | 24.07 AV               | 10.6                  | .2                     | 34.87              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -38.13  | -25.13 | -21.13 | -11.13 | - | - |
| 2.23147              | 21.33 AV               | 10.6                  | .2                     | 32.13              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -40.87  | -27.87 | -23.87 | -13.87 | - | - |
| 3.29392              | 19.8 AV                | 10.6                  | .2                     | 30.6               | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -42.4   | -29.4  | -25.4  | -15.4  | - | - |
| 4.60749              | 16.61 AV               | 10.6                  | .2                     | 27.41              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -45.59  | -32.59 | -28.59 | -18.59 | - | - |
| 8.25362              | 15.53 AV               | 10.8                  | .3                     | 26.63              | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -46.37  | -33.37 | -33.37 | -23.37 | - | - |
| 9.33056              | 15.1 AV                | 10.9                  | .4                     | 26.4               | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -46.6   | -33.6  | -33.6  | -23.6  | - | - |
| 10.68759             | 15.15 AV               | 10.9                  | .4                     | 26.45              | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -46.55  | -33.55 | -33.55 | -23.55 | - | - |
| 13.71074             | 14.35 AV               | 11.1                  | .3                     | 25.75              | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -47.25  | -34.25 | -34.25 | -24.25 | - | - |



Job #: 1001132501    File #: MC16272    Project #: 09CA32738A  
 Model Number: LRA1720  
 Client Name: Philips Lighting Electronics N. A.

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Philips  
 Model: Occuswith Wireless  
 120V/60Hz  
 RED: L1    GRN: Neutral  
 Average Measurements - Neutral Side

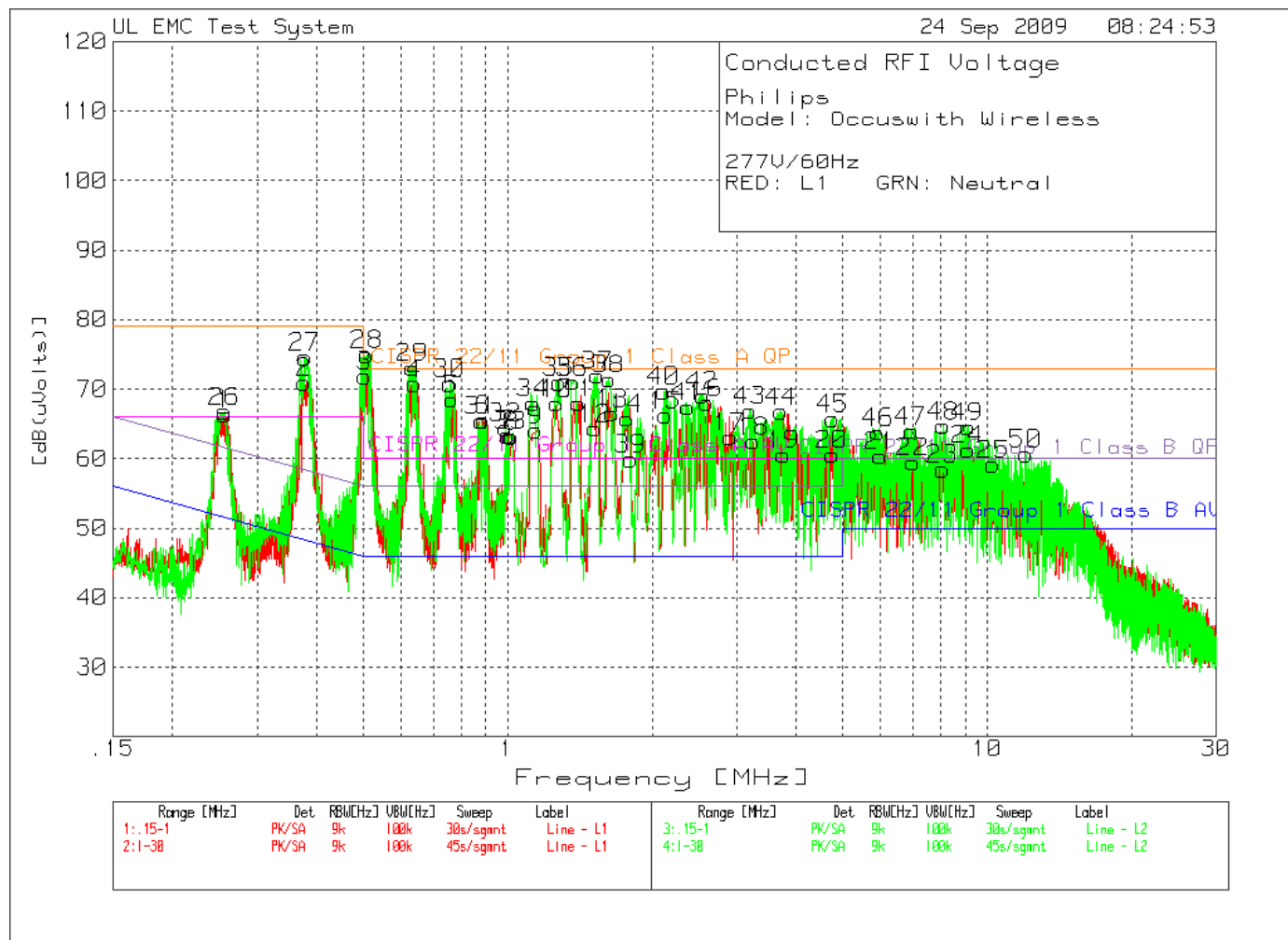
| Test Frequency [MHz] | Meter Reading [dB(uV)] | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB(uVolts)] | Limit:1 | 2      | 3      | 4      | 5 | 6 |
|----------------------|------------------------|-----------------------|------------------------|--------------------|---------|--------|--------|--------|---|---|
| .25873               | 35.52 AV               | 11                    | .8                     | 47.32              | 79      | 66     | 61.5   | 51.5   | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -31.68  | -18.68 | -14.18 | -4.18  | - | - |
| .3952                | 37.78 AV               | 10.7                  | .4                     | 48.88+             | 79      | 66     | 58     | 48     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -30.12  | -17.12 | -9.12  | .88    | - | - |
| .52035               | 26.06 AV               | 10.5                  | .3                     | 36.86              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -36.14  | -23.14 | -19.14 | -9.14  | - | - |
| .64692               | 33.5 AV                | 10.5                  | .2                     | 44.2               | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -28.8   | -15.8  | -11.8  | -1.8   | - | - |
| .77377               | 35.57 AV               | 10.5                  | .2                     | 46.27+             | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -26.73  | -13.73 | -9.73  | .27    | - | - |
| .91817               | 31.65 AV               | 10.5                  | .2                     | 42.35              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -30.65  | -17.65 | -13.65 | -3.65  | - | - |
| 1.03381              | 22.01 AV               | 10.5                  | .2                     | 32.71              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -40.29  | -27.29 | -23.29 | -13.29 | - | - |
| 1.17868              | 28.53 AV               | 10.5                  | .1                     | 39.13              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -33.87  | -20.87 | -16.87 | -6.87  | - | - |
| 1.29942              | 30.29 AV               | 10.5                  | .1                     | 40.89              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -32.11  | -19.11 | -15.11 | -5.11  | - | - |
| 1.42015              | 26.15 AV               | 10.5                  | .1                     | 36.75              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -36.25  | -23.25 | -19.25 | -9.25  | - | - |
| 1.56503              | 18.87 AV               | 10.5                  | .1                     | 29.47              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -43.53  | -30.53 | -26.53 | -16.53 | - | - |
| 1.70025              | 21.42 AV               | 10.5                  | .1                     | 32.02              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -40.98  | -27.98 | -23.98 | -13.98 | - | - |
| 1.82098              | 26.98 AV               | 10.6                  | .1                     | 37.68              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -35.32  | -22.32 | -18.32 | -8.32  | - | - |
| 1.94655              | 27.23 AV               | 10.6                  | .1                     | 37.93              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -35.07  | -22.07 | -18.07 | -8.07  | - | - |
| 2.20733              | 23.61 AV               | 10.6                  | .1                     | 34.31              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -38.69  | -25.69 | -21.69 | -11.69 | - | - |
| 2.38118              | 23.6 AV                | 10.6                  | .1                     | 34.3               | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -38.7   | -25.7  | -21.7  | -11.7  | - | - |
| 2.99933              | 21.32 AV               | 10.6                  | .1                     | 32.02              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -40.98  | -27.98 | -23.98 | -13.98 | - | - |
| 3.33256              | 20.02 AV               | 10.6                  | .1                     | 30.72              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -42.28  | -29.28 | -25.28 | -15.28 | - | - |
| 4.07144              | 20.53 AV               | 10.6                  | .1                     | 31.23              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -41.77  | -28.77 | -24.77 | -14.77 | - | - |
| 4.49642              | 19.04 AV               | 10.6                  | .1                     | 29.74              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -43.26  | -30.26 | -26.26 | -16.26 | - | - |
| 7.02215              | 18.82 AV               | 10.7                  | .2                     | 29.72              | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -43.28  | -30.28 | -30.28 | -20.28 | - | - |
| 8.09426              | 17.35 AV               | 10.8                  | .2                     | 28.35              | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -44.65  | -31.65 | -31.65 | -21.65 | - | - |
| 9.40783              | 18.29 AV               | 10.9                  | .3                     | 29.49              | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -43.51  | -30.51 | -30.51 | -20.51 | - | - |
| 10.8035              | 16.68 AV               | 10.9                  | .4                     | 27.98              | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -45.02  | -32.02 | -32.02 | -22.02 | - | - |
| 14.29992             | 15.69 AV               | 11.2                  | .3                     | 27.19              | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -45.81  | -32.81 | -32.81 | -22.81 | - | - |

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

PK - Peak detector  
 QP - Quasi-Peak detector  
 AV - average detection

LIMIT 1: CISPR 22/11 Group 1 Class A QP  
 LIMIT 2: CISPR 22/11 Group 1 Class A AV  
 LIMIT 3: CISPR 22/11 Group 1 Class B QP  
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

Figure 3 Conducted Emissions Graph 277V/60Hz



Job #: 1001132501    File #: MC16272    Project #: 09CA32738A  
 Model Number:        LRA1720  
 Client Name:          Philips Lighting Electronics N. A.

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**Table 4 Conducted Emissions Data Points 277V/60Hz**

Philips  
 Model: Occuswith Wireless  
 277V/60Hz  
 RED: L1    GRN: Neutral

Peak Scan Data - Line side

| No. | Test Frequency [MHz] | Meter Reading [dB(uV)] | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB(uVolts)] | Limit:1 | 2     | 3     | 4     | 5 | 6 |
|-----|----------------------|------------------------|-----------------------|------------------------|--------------------|---------|-------|-------|-------|---|---|
| 1   | .25675               | 54.47 pk               | 11.1                  | .8                     | 66.37              | 79      | 66    | 61.5  | 51.5  | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -12.63  | .37   | 4.87  | 14.87 | - | - |
| 2   | .37623               | 59.8 pk                | 10.7                  | .5                     | 71                 | 79      | 66    | 58.4  | 48.4  | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -8      | 5     | 12.6  | 22.6  | - | - |
| 3   | .50393               | 61.01 pk               | 10.6                  | .3                     | 71.91              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -1.09   | 11.91 | 15.91 | 25.91 | - | - |
| 4   | .63927               | 59.96 pk               | 10.5                  | .3                     | 70.76              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -2.24   | 10.76 | 14.76 | 24.76 | - | - |
| 5   | .76499               | 57.88 pk               | 10.5                  | .2                     | 68.58              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -4.42   | 8.58  | 12.58 | 22.58 | - | - |
| 6   | .88957               | 54.86 pk               | 10.5                  | .2                     | 65.56              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -7.44   | 5.56  | 9.56  | 19.56 | - | - |
| 7   | .9983                | 52.67 pk               | 10.5                  | .2                     | 63.37              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -9.63   | 3.37  | 7.37  | 17.37 | - | - |
| 8   | 1.01932              | 52.49 pk               | 10.5                  | .2                     | 63.19              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -9.81   | 3.19  | 7.19  | 17.19 | - | - |
| 9   | 1.14488              | 53.36 pk               | 10.5                  | .2                     | 64.06              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -8.94   | 4.06  | 8.06  | 18.06 | - | - |
| 10  | 1.26561              | 57.24 pk               | 10.5                  | .2                     | 67.94              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -5.06   | 7.94  | 11.94 | 21.94 | - | - |
| 11  | 1.40566              | 57.28 pk               | 10.5                  | .2                     | 67.98              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -5.02   | 7.98  | 11.98 | 21.98 | - | - |
| 12  | 1.52157              | 53.63 pk               | 10.5                  | .2                     | 64.33              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -8.67   | 4.33  | 8.33  | 18.33 | - | - |
| 13  | 1.65196              | 55.79 pk               | 10.5                  | .2                     | 66.49              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -6.51   | 6.49  | 10.49 | 20.49 | - | - |
| 14  | 1.77269              | 54.97 pk               | 10.6                  | .2                     | 65.77              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -7.23   | 5.77  | 9.77  | 19.77 | - | - |
| 15  | 2.13006              | 55.46 pk               | 10.6                  | .2                     | 66.26              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -6.74   | 6.26  | 10.26 | 20.26 | - | - |
| 16  | 2.60333              | 57.26 pk               | 10.6                  | .2                     | 68.06              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -4.94   | 8.06  | 12.06 | 22.06 | - | - |
| 17  | 2.90758              | 52.28 pk               | 10.6                  | .2                     | 63.08              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -9.92   | 3.08  | 7.08  | 17.08 | - | - |
| 18  | 3.25529              | 51.71 pk               | 10.6                  | .2                     | 62.51              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -10.49  | 2.51  | 6.51  | 16.51 | - | - |
| 19  | 3.76719              | 49.8 pk                | 10.6                  | .2                     | 60.6               | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -12.4   | .6    | 4.6   | 14.6  | - | - |
| 20  | 4.74754              | 49.79 pk               | 10.6                  | .2                     | 60.59              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -12.41  | .59   | 4.59  | 14.59 | - | - |
| 21  | 5.98868              | 49.47 pk               | 10.7                  | .2                     | 60.37              | 73      | 60    | 60    | 50    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -12.63  | .37   | .37   | 10.37 | - | - |
| 22  | 7.00283              | 48.5 pk                | 10.7                  | .3                     | 59.5               | 73      | 60    | 60    | 50    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -13.5   | -.5   | -.5   | 9.5   | - | - |
| 23  | 8.0846               | 47.4 pk                | 10.8                  | .3                     | 58.5               | 73      | 60    | 60    | 50    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -14.5   | -1.5  | -1.5  | 8.5   | - | - |
| 24  | 9.10841              | 50.12 pk               | 10.8                  | .4                     | 61.32              | 73      | 60    | 60    | 50    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -11.68  | 1.32  | 1.32  | 11.32 | - | - |
| 25  | 10.29642             | 47.87 pk               | 10.9                  | .4                     | 59.17              | 73      | 60    | 60    | 50    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -13.83  | -.83  | -.83  | 9.17  | - | - |

LIMIT 1: CISPR 22/11 Group 1 Class A QP  
 LIMIT 2: CISPR 22/11 Group 1 Class A AV  
 LIMIT 3: CISPR 22/11 Group 1 Class B QP  
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

Job #: 1001132501    File #: MC16272    Project #: 09CA32738A  
 Model Number: LRA1720  
 Client Name: Philips Lighting Electronics N. A.

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Philips  
 Model: Occuswith Wireless  
 277V/60Hz  
 RED: L1    GRN: Neutral

Peak Scan Data - Neutral side

| No. | Test Frequency [MHz] | Meter Reading [dB(uV)] | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB(uVolts)] | Limit:1 | 2     | 3     | 4     | 5 | 6 |
|-----|----------------------|------------------------|-----------------------|------------------------|--------------------|---------|-------|-------|-------|---|---|
| 26  | .25675               | 55 pk                  | 11                    | .8                     | 66.8               | 79      | 66    | 61.5  | 51.5  | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -12.2   | .8    | 5.3   | 15.3  | - | - |
| 27  | .37793               | 63.4 pk                | 10.7                  | .5                     | 74.6               | 79      | 66    | 58.3  | 48.3  | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -4.4    | 8.6   | 16.3  | 26.3  | - | - |
| 28  | .50846               | 64.09 pk               | 10.6                  | .3                     | 74.99              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | 1.99    | 14.99 | 18.99 | 28.99 | - | - |
| 29  | .63305               | 62.38 pk               | 10.5                  | .2                     | 73.08              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | .08     | 13.08 | 17.08 | 27.08 | - | - |
| 30  | .75735               | 60.13 pk               | 10.5                  | .2                     | 70.83              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -2.17   | 10.83 | 14.83 | 24.83 | - | - |
| 31  | .87938               | 54.77 pk               | 10.5                  | .2                     | 65.47              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -7.53   | 5.47  | 9.47  | 19.47 | - | - |
| 32  | .98981               | 53.79 pk               | 10.5                  | .2                     | 64.49              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -8.51   | 4.49  | 8.49  | 18.49 | - | - |
| 33  | 1.01449              | 52.58 pk               | 10.5                  | .2                     | 63.28              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -9.72   | 3.28  | 7.28  | 17.28 | - | - |
| 34  | 1.13039              | 57.4 pk                | 10.5                  | .1                     | 68                 | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -5      | 8     | 12    | 22    | - | - |
| 35  | 1.2801               | 60.4 pk                | 10.5                  | .1                     | 71                 | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -2      | 11    | 15    | 25    | - | - |
| 36  | 1.36703              | 60.42 pk               | 10.5                  | .1                     | 71.02              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -1.98   | 11.02 | 15.02 | 25.02 | - | - |
| 37  | 1.54088              | 61.35 pk               | 10.5                  | .1                     | 71.95              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -1.05   | 11.95 | 15.95 | 25.95 | - | - |
| 38  | 1.62781              | 60.81 pk               | 10.5                  | .1                     | 71.41              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -1.59   | 11.41 | 15.41 | 25.41 | - | - |
| 39  | 1.8065               | 49.36 pk               | 10.5                  | .1                     | 59.96              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -13.04  | -.04  | 3.96  | 13.96 | - | - |
| 40  | 2.11557              | 59.04 pk               | 10.6                  | .1                     | 69.74              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -3.26   | 9.74  | 13.74 | 23.74 | - | - |
| 41  | 2.37635              | 56.78 pk               | 10.6                  | .1                     | 67.48              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -5.52   | 7.48  | 11.48 | 21.48 | - | - |
| 42  | 2.55021              | 58.39 pk               | 10.6                  | .1                     | 69.09              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -3.91   | 9.09  | 13.09 | 23.09 | - | - |
| 43  | 3.20217              | 56.21 pk               | 10.6                  | .1                     | 66.91              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -6.09   | 6.91  | 10.91 | 20.91 | - | - |
| 44  | 3.7189               | 56.1 pk                | 10.6                  | .1                     | 66.8               | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -6.2    | 6.8   | 10.8  | 20.8  | - | - |
| 45  | 4.76686              | 55.04 pk               | 10.6                  | .1                     | 65.74              | 73      | 60    | 56    | 46    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -7.26   | 5.74  | 9.74  | 19.74 | - | - |
| 46  | 5.9259               | 52.98 pk               | 10.7                  | .1                     | 63.78              | 73      | 60    | 60    | 50    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -9.22   | 3.78  | 3.78  | 13.78 | - | - |
| 47  | 6.94005              | 53.07 pk               | 10.7                  | .2                     | 63.97              | 73      | 60    | 60    | 50    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -9.03   | 3.97  | 3.97  | 13.97 | - | - |
| 48  | 8.10391              | 53.69 pk               | 10.8                  | .2                     | 64.69              | 73      | 60    | 60    | 50    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -8.31   | 4.69  | 4.69  | 14.69 | - | - |
| 49  | 9.11324              | 53.43 pk               | 10.8                  | .3                     | 64.53              | 73      | 60    | 60    | 50    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -8.47   | 4.53  | 4.53  | 14.53 | - | - |
| 50  | 12.05429             | 49.26 pk               | 11                    | .4                     | 60.66              | 73      | 60    | 60    | 50    | - | - |
|     |                      |                        |                       | Margin [dB]            |                    | -12.34  | .66   | .66   | 10.66 | - | - |

LIMIT 1: CISPR 22/11 Group 1 Class A QP  
 LIMIT 2: CISPR 22/11 Group 1 Class A AV  
 LIMIT 3: CISPR 22/11 Group 1 Class B QP  
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

Job #: 1001132501    File #: MC16272    Project #: 09CA32738A  
 Model Number: LRA1720  
 Client Name: Philips Lighting Electronics N. A.

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Philips  
 Model: Occuswith Wireless  
 277V/60Hz  
 RED: L1    GRN: Neutral

Quasi-Peak Measurements - Line Side

| Test Frequency [MHz] | Meter Reading [dB(uV)] | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB(uVolts)] | Limit:1 | 2      | 3      | 4     | 5 | 6 |
|----------------------|------------------------|-----------------------|------------------------|--------------------|---------|--------|--------|-------|---|---|
| .25675               | 50.25 qp               | 11.1                  | .8                     | 62.15+             | 79      | 66     | 61.5   | 51.5  | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -16.85  | -3.85  | .65    | 10.65 | - | - |
| .37623               | 56.15 qp               | 10.7                  | .5                     | 67.35+             | 79      | 66     | 58.4   | 48.4  | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -11.65  | 1.35   | 8.95   | 18.95 | - | - |
| .50393               | 56.87 qp               | 10.6                  | .3                     | 67.77+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -5.23   | 7.77   | 11.77  | 21.77 | - | - |
| .63927               | 55.31 qp               | 10.5                  | .3                     | 66.11+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -6.89   | 6.11   | 10.11  | 20.11 | - | - |
| .76499               | 52.86 qp               | 10.5                  | .2                     | 63.56+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -9.44   | 3.56   | 7.56   | 17.56 | - | - |
| .88957               | 48.64 qp               | 10.5                  | .2                     | 59.34+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -13.66  | -.66   | 3.34   | 13.34 | - | - |
| .985                 | 44.53 qp               | 10.5                  | .2                     | 55.23              | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -17.77  | -4.77  | -.77   | 9.23  | - | - |
| 1.01932              | 45.97 qp               | 10.5                  | .2                     | 56.67+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -16.33  | -3.33  | .67    | 10.67 | - | - |
| 1.14488              | 49.63 qp               | 10.5                  | .2                     | 60.33+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -12.67  | .33    | 4.33   | 14.33 | - | - |
| 1.26561              | 50.93 qp               | 10.5                  | .2                     | 61.63+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -11.37  | 1.63   | 5.63   | 15.63 | - | - |
| 1.40566              | 52.23 qp               | 10.5                  | .2                     | 62.93+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -10.07  | 2.93   | 6.93   | 16.93 | - | - |
| 1.52157              | 53.43 qp               | 10.5                  | .2                     | 64.13+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -8.87   | 4.13   | 8.13   | 18.13 | - | - |
| 1.65196              | 53.42 qp               | 10.5                  | .2                     | 64.12+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -8.88   | 4.12   | 8.12   | 18.12 | - | - |
| 1.77269              | 50.57 qp               | 10.6                  | .2                     | 61.37+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -11.63  | 1.37   | 5.37   | 15.37 | - | - |
| 2.13006              | 47 qp                  | 10.6                  | .2                     | 57.8+              | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -15.2   | -2.2   | 1.8    | 11.8  | - | - |
| 2.60333              | 48.53 qp               | 10.6                  | .2                     | 59.33+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -13.67  | -.67   | 3.33   | 13.33 | - | - |
| 2.90758              | 43.37 qp               | 10.6                  | .2                     | 54.17              | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -18.83  | -5.83  | -1.83  | 8.17  | - | - |
| 3.25529              | 41.76 qp               | 10.6                  | .2                     | 52.56              | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -20.44  | -7.44  | -3.44  | 6.56  | - | - |
| 3.76719              | 46.75 qp               | 10.6                  | .2                     | 57.55+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -15.45  | -2.45  | 1.55   | 11.55 | - | - |
| 4.74754              | 46.72 qp               | 10.6                  | .2                     | 57.52+             | 73      | 60     | 56     | 46    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -15.48  | -2.48  | 1.52   | 11.52 | - | - |
| 5.98868              | 42.42 qp               | 10.7                  | .2                     | 53.32              | 73      | 60     | 60     | 50    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -19.68  | -6.68  | -6.68  | 3.32  | - | - |
| 7.00283              | 40.56 qp               | 10.7                  | .3                     | 51.56              | 73      | 60     | 60     | 50    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -21.44  | -8.44  | -8.44  | 1.56  | - | - |
| 8.0846               | 42.1 qp                | 10.8                  | .3                     | 53.2               | 73      | 60     | 60     | 50    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -19.8   | -6.8   | -6.8   | 3.2   | - | - |
| 9.10841              | 41.05 qp               | 10.8                  | .4                     | 52.25              | 73      | 60     | 60     | 50    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -20.75  | -7.75  | -7.75  | 2.25  | - | - |
| 10.29642             | 37.82 qp               | 10.9                  | .4                     | 49.12              | 73      | 60     | 60     | 50    | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -23.88  | -10.88 | -10.88 | -.88  | - | - |

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

PK - Peak detector  
 QP - Quasi-Peak detector  
 AV - average detection

LIMIT 1: CISPR 22/11 Group 1 Class A QP  
 LIMIT 2: CISPR 22/11 Group 1 Class A AV  
 LIMIT 3: CISPR 22/11 Group 1 Class B QP  
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

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 Client Name: Philips Lighting Electronics N. A.

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Philips  
 Model: Occuswith Wireless  
 277V/60Hz  
 RED: L1    GRN: Neutral

Quasi-Peak Measurements - Neutral Side

| Test Frequency [MHz] | Meter Reading [dB(uV)] | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level Limit:1 [dB(uVolts)] | 2      | 3     | 4     | 5    | 6 |
|----------------------|------------------------|-----------------------|------------------------|----------------------------|--------|-------|-------|------|---|
| .25675               | 51.32 qp               | 11                    | .8                     | 63.12+                     | 79     | 66    | 61.5  | 51.5 | - |
|                      |                        |                       | Margin [dB]:           | -15.88                     | -2.88  | 1.62  | 11.62 | -    | - |
| .37793               | 59.82 qp               | 10.7                  | .5                     | 71.02+                     | 79     | 66    | 58.3  | 48.3 | - |
|                      |                        |                       | Margin [dB]:           | -7.98                      | 5.02   | 12.72 | 22.72 | -    | - |
| .50846               | 60.7 qp                | 10.6                  | .3                     | 71.6+                      | 73     | 60    | 56    | 46   | - |
|                      |                        |                       | Margin [dB]:           | -1.4                       | 11.6   | 15.6  | 25.6  | -    | - |
| .63305               | 58.3 qp                | 10.5                  | .2                     | 69+                        | 73     | 60    | 56    | 46   | - |
|                      |                        |                       | Margin [dB]:           | -4                         | 9      | 13    | 23    | -    | - |
| .75735               | 55.12 qp               | 10.5                  | .2                     | 65.82+                     | 73     | 60    | 56    | 46   | - |
|                      |                        |                       | Margin [dB]:           | -7.18                      | 5.82   | 9.82  | 19.82 | -    | - |
| .87938               | 46.67 qp               | 10.5                  | .2                     | 57.37+                     | 73     | 60    | 56    | 46   | - |
|                      |                        |                       | Margin [dB]:           | -15.63                     | -2.63  | 1.37  | 11.37 | -    | - |
| .985                 | 44.6 qp                | 10.5                  | .2                     | 55.3                       | 73     | 60    | 56    | 46   | - |
|                      |                        |                       | Margin [dB]:           | -17.7                      | -4.7   | -7    | 9.3   | -    | - |
| 1.015                | 47.33 qp               | 10.5                  | .2                     | 58.03+                     | 73     | 60    | 56    | 46   | - |
|                      |                        |                       | Margin [dB]:           | -14.97                     | -1.97  | 2.03  | 12.03 | -    | - |
| 1.13039              | 53.71 qp               | 10.5                  | .1                     | 64.31+                     | 73     | 60    | 56    | 46   | - |
|                      |                        |                       | Margin [dB]:           | -8.69                      | 4.31   | 8.31  | 18.31 | -    | - |
| 1.2801               | 55.05 qp               | 10.5                  | .1                     | 65.65+                     | 73     | 60    | 56    | 46   | - |
|                      |                        |                       | Margin [dB]:           | -7.35                      | 5.65   | 9.65  | 19.65 | -    | - |
| 1.36703              | 54.97 qp               | 10.5                  | .1                     | 65.57+                     | 73     | 60    | 56    | 46   | - |
|                      |                        |                       | Margin [dB]:           | -7.43                      | 5.57   | 9.57  | 19.57 | -    | - |
| 1.54088              | 54.3 qp                | 10.5                  | .1                     | 64.9+                      | 73     | 60    | 56    | 46   | - |
|                      |                        |                       | Margin [dB]:           | -8.1                       | 4.9    | 8.9   | 18.9  | -    | - |
| 1.62781              | 53.89 qp               | 10.5                  | .1                     | 64.49+                     | 73     | 60    | 56    | 46   | - |
|                      |                        |                       | Margin [dB]:           | -8.51                      | 4.49   | 8.49  | 18.49 | -    | - |
| 1.8065               | 36.27 qp               | 10.5                  | .1                     | 46.87                      | 73     | 60    | 56    | 46   | - |
|                      |                        |                       | Margin [dB]:           | -26.13                     | -13.13 | -9.13 | .87   | -    | - |
| 2.11557              | 51.85 qp               | 10.6                  | .1                     | 62.55+                     | 73     | 60    | 56    | 46   | - |
|                      |                        |                       | Margin [dB]:           | -10.45                     | 2.55   | 6.55  | 16.55 | -    | - |
| 2.37635              | 50.57 qp               | 10.6                  | .1                     | 61.27+                     | 73     | 60    | 56    | 46   | - |
|                      |                        |                       | Margin [dB]:           | -11.73                     | 1.27   | 5.27  | 15.27 | -    | - |
| 2.55021              | 50.46 qp               | 10.6                  | .1                     | 61.16+                     | 73     | 60    | 56    | 46   | - |
|                      |                        |                       | Margin [dB]:           | -11.84                     | 1.16   | 5.16  | 15.16 | -    | - |
| 3.20217              | 48.39 qp               | 10.6                  | .1                     | 59.09+                     | 73     | 60    | 56    | 46   | - |
|                      |                        |                       | Margin [dB]:           | -13.91                     | -.91   | 3.09  | 13.09 | -    | - |
| 3.7189               | 48.74 qp               | 10.6                  | .1                     | 59.44+                     | 73     | 60    | 56    | 46   | - |
|                      |                        |                       | Margin [dB]:           | -13.56                     | -.56   | 3.44  | 13.44 | -    | - |
| 4.76686              | 45.02 qp               | 10.6                  | .1                     | 55.72                      | 73     | 60    | 56    | 46   | - |
|                      |                        |                       | Margin [dB]:           | -17.28                     | -4.28  | -.28  | 9.72  | -    | - |
| 5.9259               | 44.29 qp               | 10.7                  | .1                     | 55.09                      | 73     | 60    | 60    | 50   | - |
|                      |                        |                       | Margin [dB]:           | -17.91                     | -4.91  | -4.91 | 5.09  | -    | - |
| 6.94005              | 45.27 qp               | 10.7                  | .2                     | 56.17                      | 73     | 60    | 60    | 50   | - |
|                      |                        |                       | Margin [dB]:           | -16.83                     | -3.83  | -3.83 | 6.17  | -    | - |
| 8.10391              | 41.36 qp               | 10.8                  | .2                     | 52.36                      | 73     | 60    | 60    | 50   | - |
|                      |                        |                       | Margin [dB]:           | -20.64                     | -7.64  | -7.64 | 2.36  | -    | - |
| 9.11324              | 42.7 qp                | 10.8                  | .3                     | 53.8                       | 73     | 60    | 60    | 50   | - |
|                      |                        |                       | Margin [dB]:           | -19.2                      | -6.2   | -6.2  | 3.8   | -    | - |
| 12.05429             | 39.23 qp               | 11                    | .4                     | 50.63                      | 73     | 60    | 60    | 50   | - |
|                      |                        |                       | Margin [dB]:           | -22.37                     | -9.37  | -9.37 | .63   | -    | - |

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

PK - Peak detector  
 QP - Quasi-Peak detector  
 AV - average detection

LIMIT 1: CISPR 22/11 Group 1 Class A QP  
 LIMIT 2: CISPR 22/11 Group 1 Class A AV  
 LIMIT 3: CISPR 22/11 Group 1 Class B QP  
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

Job #: 1001132501    File #: MC16272    Project #: 09CA32738A  
 Model Number: LRA1720  
 Client Name: Philips Lighting Electronics N. A.

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Philips  
 Model: Occuswith Wireless  
 277V/60Hz  
 RED: L1    GRN: Neutral

Average Measurements - Line Side

| Test Frequency [MHz] | Meter Reading [dB(uV)] | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB(uVolts)] | Limit:1 | 2      | 3      | 4      | 5 | 6 |
|----------------------|------------------------|-----------------------|------------------------|--------------------|---------|--------|--------|--------|---|---|
| .25675               | 33.99 AV               | 11.1                  | .8                     | 45.89              | 79      | 66     | 61.5   | 51.5   | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -33.11  | -20.11 | -15.61 | -5.61  | - | - |
| .37623               | 42.33 AV               | 10.7                  | .5                     | 53.53+             | 79      | 66     | 58.4   | 48.4   | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -25.47  | -12.47 | -4.87  | 5.13   | - | - |
| .50393               | 41.52 AV               | 10.6                  | .3                     | 52.42+             | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -20.58  | -7.58  | -3.58  | 6.42   | - | - |
| .63927               | 37.03 AV               | 10.5                  | .3                     | 47.83+             | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -25.17  | -12.17 | -8.17  | 1.83   | - | - |
| .76499               | 34.09 AV               | 10.5                  | .2                     | 44.79              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -28.21  | -15.21 | -11.21 | -1.21  | - | - |
| .88957               | 27.61 AV               | 10.5                  | .2                     | 38.31              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -34.69  | -21.69 | -17.69 | -7.69  | - | - |
| .985                 | 21.85 AV               | 10.5                  | .2                     | 32.55              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -40.45  | -27.45 | -23.45 | -13.45 | - | - |
| 1.01932              | 25.5 AV                | 10.5                  | .2                     | 36.2               | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -36.8   | -23.8  | -19.8  | -9.8   | - | - |
| 1.14488              | 29.44 AV               | 10.5                  | .2                     | 40.14              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -32.86  | -19.86 | -15.86 | -5.86  | - | - |
| 1.26561              | 30.5 AV                | 10.5                  | .2                     | 41.2               | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -31.8   | -18.8  | -14.8  | -4.8   | - | - |
| 1.40566              | 29.24 AV               | 10.5                  | .2                     | 39.94              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -33.06  | -20.06 | -16.06 | -6.06  | - | - |
| 1.52157              | 31.43 AV               | 10.5                  | .2                     | 42.13              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -30.87  | -17.87 | -13.87 | -3.87  | - | - |
| 1.65196              | 30.99 AV               | 10.5                  | .2                     | 41.69              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -31.31  | -18.31 | -14.31 | -4.31  | - | - |
| 1.77269              | 27.24 AV               | 10.6                  | .2                     | 38.04              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -34.96  | -21.96 | -17.96 | -7.96  | - | - |
| 2.13006              | 23.9 AV                | 10.6                  | .2                     | 34.7               | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -38.3   | -25.3  | -21.3  | -11.3  | - | - |
| 2.60333              | 24.22 AV               | 10.6                  | .2                     | 35.02              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -37.98  | -24.98 | -20.98 | -10.98 | - | - |
| 2.90758              | 18.52 AV               | 10.6                  | .2                     | 29.32              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -43.68  | -30.68 | -26.68 | -16.68 | - | - |
| 3.25529              | 17.43 AV               | 10.6                  | .2                     | 28.23              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -44.77  | -31.77 | -27.77 | -17.77 | - | - |
| 3.76719              | 21.08 AV               | 10.6                  | .2                     | 31.88              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -41.12  | -28.12 | -24.12 | -14.12 | - | - |
| 4.74754              | 22.89 AV               | 10.6                  | .2                     | 33.69              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -39.31  | -26.31 | -22.31 | -12.31 | - | - |
| 5.98868              | 18.14 AV               | 10.7                  | .2                     | 29.04              | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -43.96  | -30.96 | -30.96 | -20.96 | - | - |
| 7.00283              | 16.22 AV               | 10.7                  | .3                     | 27.22              | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -45.78  | -32.78 | -32.78 | -22.78 | - | - |
| 8.0846               | 17.75 AV               | 10.8                  | .3                     | 28.85              | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -44.15  | -31.15 | -31.15 | -21.15 | - | - |
| 9.10841              | 16.88 AV               | 10.8                  | .4                     | 28.08              | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -44.92  | -31.92 | -31.92 | -21.92 | - | - |
| 10.29642             | 14.48 AV               | 10.9                  | .4                     | 25.78              | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -47.22  | -34.22 | -34.22 | -24.22 | - | - |

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

PK - Peak detector  
 QP - Quasi-Peak detector  
 AV - average detection

LIMIT 1: CISPR 22/11 Group 1 Class A QP  
 LIMIT 2: CISPR 22/11 Group 1 Class A AV  
 LIMIT 3: CISPR 22/11 Group 1 Class B QP  
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

Job #: 1001132501    File #: MC16272    Project #: 09CA32738A  
 Model Number: LRA1720  
 Client Name: Philips Lighting Electronics N. A.

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Philips  
 Model: Occuswith Wireless  
 277V/60Hz  
 RED: L1    GRN: Neutral

Average Measurements - Neutral Side

| Test Frequency [MHz] | Meter Reading [dB(uV)] | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB(uVolts)] | Limit:1 | 2      | 3      | 4      | 5 | 6 |
|----------------------|------------------------|-----------------------|------------------------|--------------------|---------|--------|--------|--------|---|---|
| .25675               | 32.05 AV               | 11                    | .8                     | 43.85              | 79      | 66     | 61.5   | 51.5   | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -35.15  | -22.15 | -17.65 | -7.65  | - | - |
| .37793               | 41.03 AV               | 10.7                  | .5                     | 52.23+             | 79      | 66     | 58.3   | 48.3   | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -26.77  | -13.77 | -6.07  | 3.93   | - | - |
| .50846               | 40.45 AV               | 10.6                  | .3                     | 51.35+             | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -21.65  | -8.65  | -4.65  | 5.35   | - | - |
| .63305               | 38.19 AV               | 10.5                  | .2                     | 48.89+             | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -24.11  | -11.11 | -7.11  | 2.89   | - | - |
| .75735               | 33.73 AV               | 10.5                  | .2                     | 44.43              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -28.57  | -15.57 | -11.57 | -1.57  | - | - |
| .87938               | 25.17 AV               | 10.5                  | .2                     | 35.87              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -37.13  | -24.13 | -20.13 | -10.13 | - | - |
| .985                 | 20.35 AV               | 10.5                  | .2                     | 31.05              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -41.95  | -28.95 | -24.95 | -14.95 | - | - |
| 1.015                | 24.84 AV               | 10.5                  | .2                     | 35.54              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -37.46  | -24.46 | -20.46 | -10.46 | - | - |
| 1.13039              | 30.88 AV               | 10.5                  | .1                     | 41.48              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -31.52  | -18.52 | -14.52 | -4.52  | - | - |
| 1.2801               | 31.05 AV               | 10.5                  | .1                     | 41.65              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -31.35  | -18.35 | -14.35 | -4.35  | - | - |
| 1.36703              | 31.76 AV               | 10.5                  | .1                     | 42.36              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -30.64  | -17.64 | -13.64 | -3.64  | - | - |
| 1.54088              | 28.41 AV               | 10.5                  | .1                     | 39.01              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -33.99  | -20.99 | -16.99 | -6.99  | - | - |
| 1.62781              | 29.46 AV               | 10.5                  | .1                     | 40.06              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -32.94  | -19.94 | -15.94 | -5.94  | - | - |
| 1.8065               | 11.39 AV               | 10.5                  | .1                     | 21.99              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -51.01  | -38.01 | -34.01 | -24.01 | - | - |
| 2.11557              | 26.96 AV               | 10.6                  | .1                     | 37.66              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -35.34  | -22.34 | -18.34 | -8.34  | - | - |
| 2.37635              | 24.99 AV               | 10.6                  | .1                     | 35.69              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -37.31  | -24.31 | -20.31 | -10.31 | - | - |
| 2.55021              | 22.77 AV               | 10.6                  | .1                     | 33.47              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -39.53  | -26.53 | -22.53 | -12.53 | - | - |
| 3.20217              | 23.42 AV               | 10.6                  | .1                     | 34.12              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -38.88  | -25.88 | -21.88 | -11.88 | - | - |
| 3.7189               | 24.63 AV               | 10.6                  | .1                     | 35.33              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -37.67  | -24.67 | -20.67 | -10.67 | - | - |
| 4.76686              | 17.95 AV               | 10.6                  | .1                     | 28.65              | 73      | 60     | 56     | 46     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -44.35  | -31.35 | -27.35 | -17.35 | - | - |
| 5.9259               | 17.06 AV               | 10.7                  | .1                     | 27.86              | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -45.14  | -32.14 | -32.14 | -22.14 | - | - |
| 6.94005              | 18.98 AV               | 10.7                  | .2                     | 29.88              | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -43.12  | -30.12 | -30.12 | -20.12 | - | - |
| 8.10391              | 15.2 AV                | 10.8                  | .2                     | 26.2               | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -46.8   | -33.8  | -33.8  | -23.8  | - | - |
| 9.11324              | 16.85 AV               | 10.8                  | .3                     | 27.95              | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -45.05  | -32.05 | -32.05 | -22.05 | - | - |
| 12.05429             | 14.34 AV               | 11                    | .4                     | 25.74              | 73      | 60     | 60     | 50     | - | - |
|                      |                        |                       | Margin [dB]:           |                    | -47.26  | -34.26 | -34.26 | -24.26 | - | - |

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

PK - Peak detector  
 QP - Quasi-Peak detector  
 AV - average detection

LIMIT 1: CISPR 22/11 Group 1 Class A QP  
 LIMIT 2: CISPR 22/11 Group 1 Class A AV  
 LIMIT 3: CISPR 22/11 Group 1 Class B QP  
 LIMIT 4: CISPR 22/11 Group 1 Class B AV



#### 4.2 Test Conditions and Results – RADIATED EMISSIONS Digital

| Test Description  | Measurements were made in a 10-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 10-meter or 3-meter as noted. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4-meters. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable. |                       |
|---|--|-----------------------|
| Basic Standard  | FCC Part 15, Subpart B   |                       |
| UL LPG  | 80-EM-S0029  |                       |
|   | Frequency range  | Measurement Point     |
| Fully configured sample scanned over the following frequency range  | 30MHz – 25GHz  | (10 meter or 3 meter) |
| <b>Limits - Class A</b>   |  |                       |
| Frequency (MHz)   | Limit (dB $\mu$ V/m)   |                       |
|   | Quasi-Peak   | Average               |
| 30-88   | 39.08  | NA                    |
| 88-216  | 43.52  | NA                    |
| 216-960   | 46.44  | NA                    |
| 960-1000  | 49.54  | NA                    |
| Above 1GHz  | NA   | 60 (at 3-meter)       |
| <b>Limits - Class B</b>   |  |                       |
| Frequency (MHz)   | Limit (dB $\mu$ V/m)   |                       |
|   | Quasi-Peak   | Average               |
| 30-88   | 29.54  | NA                    |
| 88-216  | 33.06  | NA                    |
| 216-960   | 35.56  | NA                    |
| 960-1000  | 43.52  | NA                    |
| Above 1GHz  | NA   | 54 (at 3-meter)       |
| Supplementary information: In receive mode / digital mode measurements are only required up to 12.5GHz, however testing was conducted to 25GHz. |  |                       |

**Table 5 Radiated Emissions EUT Configuration Settings**

| Power Interface Mode #          | EUT Configurations Mode # | EUT Operation Mode # |
|---------------------------------|---------------------------|----------------------|
| 1 & 2                           | 2                         | 2                    |
| Supplementary information: None |                           |                      |

**Table 6 Radiated Emissions Test Equipment**

| Test Equipment Used |                 |          |            |
|---------------------|-----------------|----------|------------|
| Description         | Manufacturer    | Model    | Identifier |
| EMI Test Receiver   | Rohde & Schwarz | ESU      | EMC4323    |
| Bicon Antenna       | Chase           | VBA6106A | EMC4078    |
| Log-P Antenna       | Chase           | UPA6109  | EMC4313    |
| Spectrum Analyzer   | Rhode & Schwarz | FSEK     | EMC4182    |
| Antenna Array       | UL              | BOMS     | EMC4276    |

**Figure 4 Test setup for Radiated Emissions**

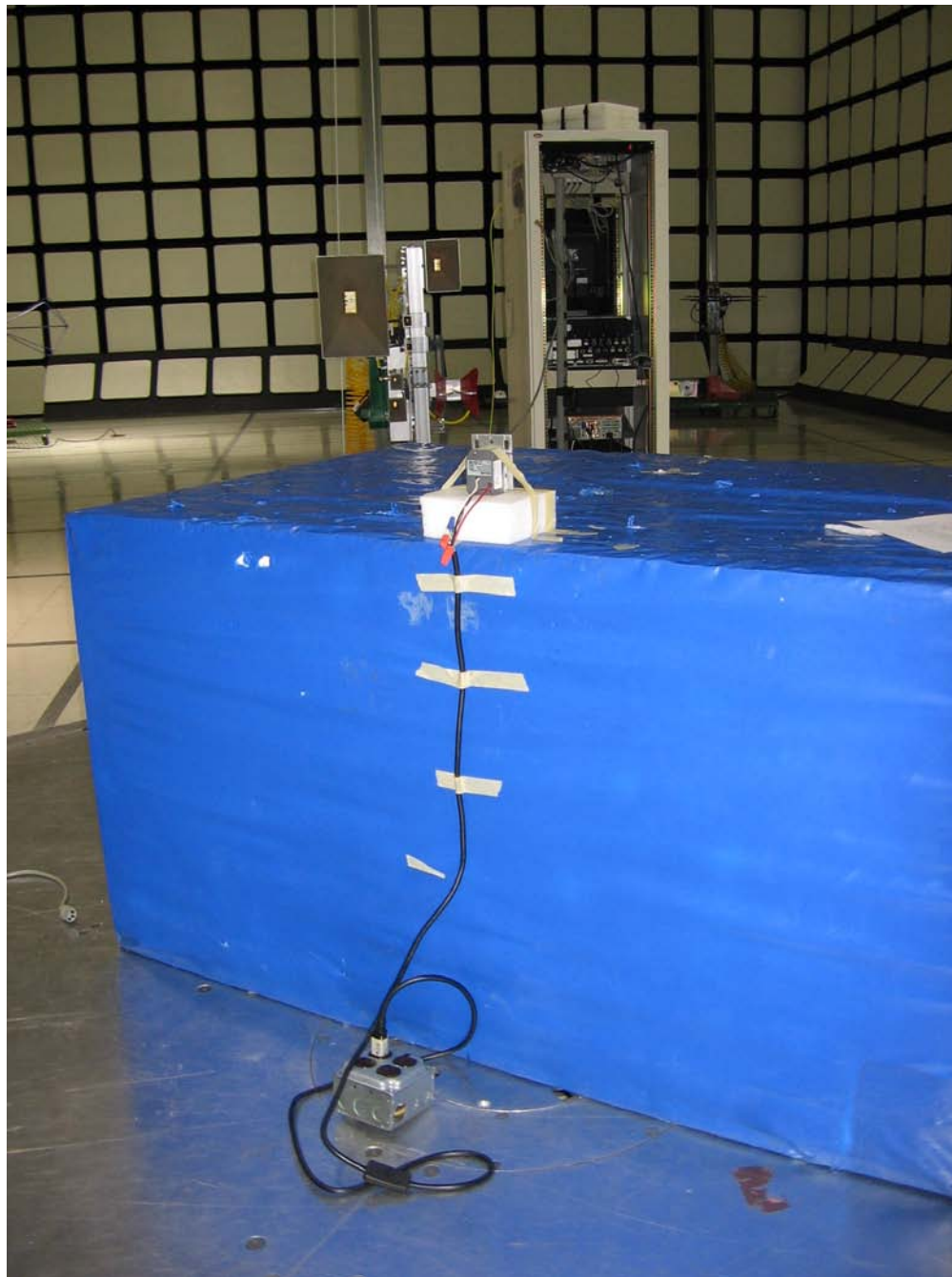
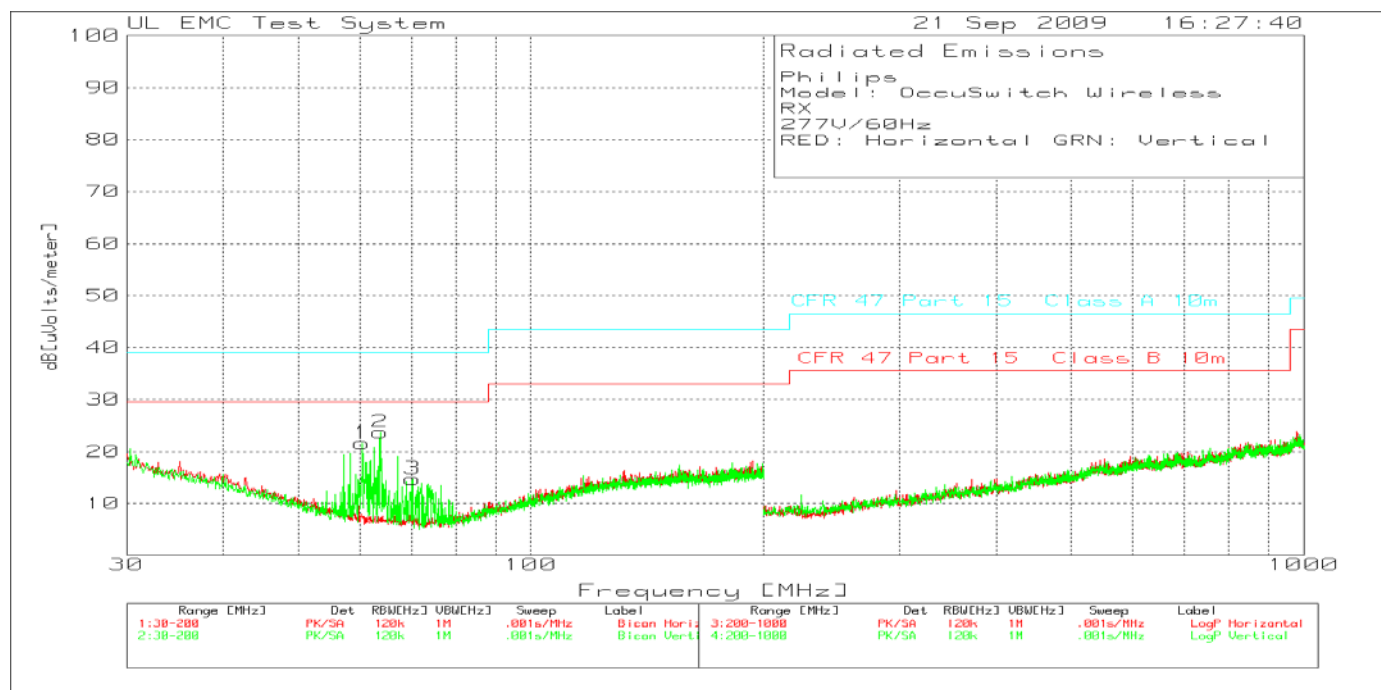
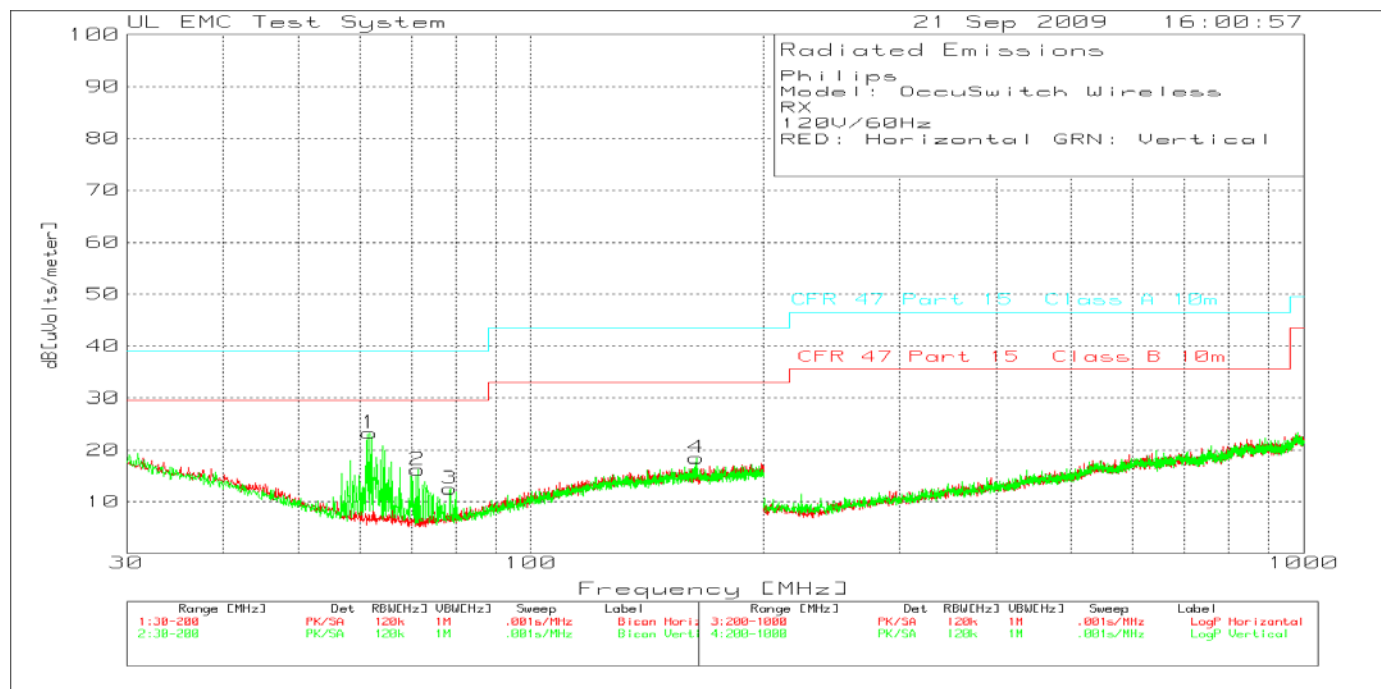


Figure 5 Radiated Emissions Graph 30MHz – 1GHz



**Table 7 Radiated Emissions Data Points 30MHz – 1GHz**

Philips  
 Model: OccuSwitch Wireless  
 RX  
 120V/60Hz  
 RED: Horizontal GRN: Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uV/m] | Limit 3 | Margin 3[dB] | Limit 4 | Margin 4[dB] | Height [cm] | Polarity |
|---------------|----------------------|------------------------|---------------|-----------------------|------------------------|----------------|---------|--------------|---------|--------------|-------------|----------|
| 1             | 61.7741              | 46.94                  | pk            | -30.3                 | 6.6                    | 23.24          | 39.1    | -15.86       | 29.6    | -6.36        | 100         | Vert     |
| 2             | 71.3743              | 40.28                  | pk            | -30.3                 | 6.2                    | 16.18          | 39.1    | -22.92       | 29.6    | -13.42       | 100         | Vert     |
| 3             | 78.5957              | 35.84                  | pk            | -30.2                 | 6.9                    | 12.54          | 39.1    | -26.56       | 29.6    | -17.06       | 100         | Vert     |
| 4             | 163.7231             | 33.45                  | pk            | -30.1                 | 15.1                   | 18.45          | 43.5    | -25.05       | 33.1    | -14.65       | 100         | Vert     |

LIMIT 3: CFR 47 Part 15 Class A 10m  
 LIMIT 4: CFR 47 Part 15 Class B 10m

PK - Peak detector  
 QP - Quasi-Peak detector

Philips  
 Model: OccuSwitch Wireless  
 RX  
 277V/60Hz  
 RED: Horizontal GRN: Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uV/m] | Limit 3 | Margin 3[dB] | Limit 4 | Margin 4[dB] | Height [cm] | Polarity |
|---------------|----------------------|------------------------|---------------|-----------------------|------------------------|----------------|---------|--------------|---------|--------------|-------------|----------|
| 1             | 60.4998              | 45.12                  | pk            | -30.3                 | 6.7                    | 21.52          | 39.1    | -17.58       | 29.6    | -8.08        | 100         | Vert     |
| 2             | 63.8981              | 47.6                   | pk            | -30.3                 | 6.4                    | 23.7           | 39.1    | -15.4        | 29.6    | -5.9         | 100         | Vert     |
| 3             | 70.3548              | 38.84                  | pk            | -30.3                 | 6.2                    | 14.74          | 39.1    | -24.36       | 29.6    | -14.86       | 100         | Vert     |

LIMIT 3: CFR 47 Part 15 Class A 10m  
 LIMIT 4: CFR 47 Part 15 Class B 10m

PK - Peak detector  
 QP - Quasi-Peak detector

Figure 6 Radiated Emissions Graph 1GHz – 25GHz

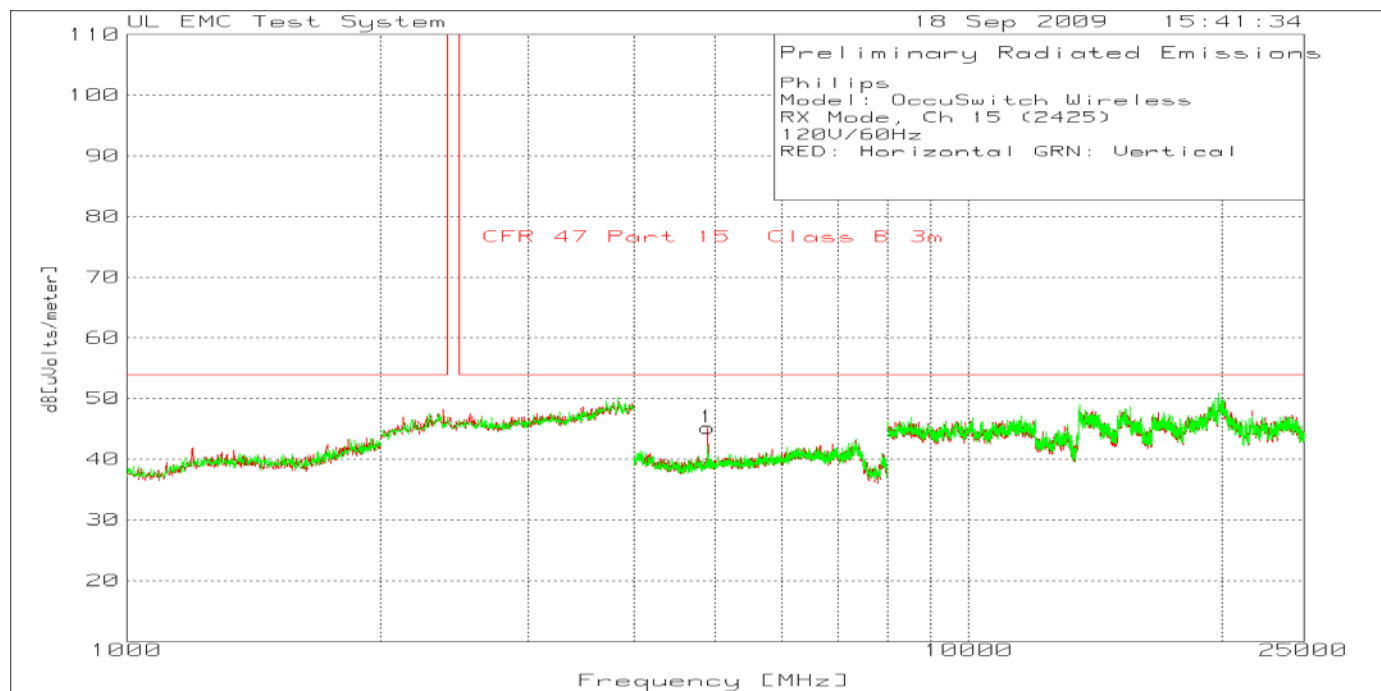


Table 8 Radiated Emissions Data Points 30MHz – 1GHz

Philips  
Model: OccuSwitch Wireless  
RX Mode, Ch 15 (2425)  
120V/60Hz  
RED: Horizontal GRN: Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uV/m] | Limit 1 | Margin 1[dB] | Height [cm] | Polarity |
|---------------|----------------------|------------------------|---------------|-----------------------|------------------------|----------------|---------|--------------|-------------|----------|
| 1             | 4899.266             | 68.55                  | pk            | -51.08                | 27.7                   | 45.17          | 54      | -8.83        | 102         | Horz     |

LIMIT 1: CFR 47 Part 15 Class B 3m

pk - Peak detector

#### 4.3 Test Conditions and Results – SPURIOUS EMISSIONS (Antenna Conducted and Radiated)

|   |   |   |          |
|---|---|---|----------|
| Test Description  | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section15.205(c)). |   |          |
| Basic Standard  | 47 CFR Part 15.247(d)<br>RSS-210, A8.5<br>RSS-Gen 7.2.1 and 7.2.3   |   |          |
|   | Frequency range   | Measurement Point                       |          |
| Fully configured sample scanned over the following frequency range  | 30MHz – 1GHz  | 10 meter distance and / or antenna port |          |
| Fully configured sample scanned over the following frequency range  | 1GHz – 25GHz  | 3 meter distance and / or antenna port  |          |
| Limits (Antenna Conducted)  |   |   |          |
| All emissions must be 20dB below the level of the fundamental frequency.  |   |   |          |
| Limits (Radiated – Restricted Bands Only)   |   |   |          |
| Frequency (MHz)   | Limit (dBµV/m)  |   |          |
|   | Quasi-Peak  | Average                                 |          |
|   | General Emissions   | Fundamental                             | Spurious |
| 30 – 88   | 29.54   | -                                       | -        |
| 88 – 216  | 33.06   | -                                       | -        |
| 216-960   | 35.56   | -                                       | -        |
| 960-1000  | 43.52   | -                                       | -        |
| 1,000-25,000  | -   | -                                       | 54       |
| Supplementary information: Below 1GHz, spectrum was checked. All emissions related to the transmitter below 1GHz are not in the restricted band therefore only antenna conducted limits apply (20dB below the peak level of the fundamental). |   |   |          |

**Table 9 SPURIOUS EMISSIONS EUT Configuration Settings**

| Power Interface Mode #          | EUT Configurations Mode # | EUT Operation Mode # |
|---------------------------------|---------------------------|----------------------|
| 1 & 2                           | 2 & 3                     | 1                    |
| Supplementary information: None |                           |                      |

**Table 10 SPURIOUS CONDUCTED EMISSIONS Test Equipment**

| Test Equipment Used   |                 |       |            |
|-----------------------|-----------------|-------|------------|
| Description           | Manufacturer    | Model | Identifier |
| EMI Test Receiver     | Rohde & Schwarz | ESU   | EMC4323    |
| Cable with Attenuator | Pasternack      | 10dB  | none       |

**Table 11 SPURIOUS RADIATED EMISSIONS Test Equipment**

| Test Equipment Used |                 |          |            |
|---------------------|-----------------|----------|------------|
| Description         | Manufacturer    | Model    | Identifier |
| EMI Test Receiver   | Rohde & Schwarz | ESU      | EMC4323    |
| Bicon Antenna       | Chase           | VBA6106A | EMC4078    |
| Log-P Antenna       | Chase           | UPA6109  | EMC4313    |
| Spectrum Analyzer   | Rhode & Schwarz | FSEK     | EMC4182    |
| Antenna Array       | UL              | BOMS     | EMC4276    |



**Test setup for SPURIOUS EMISSIONS – Antenna conducted**



**Test setup for SPURIOUS EMISSIONS – Radiated**

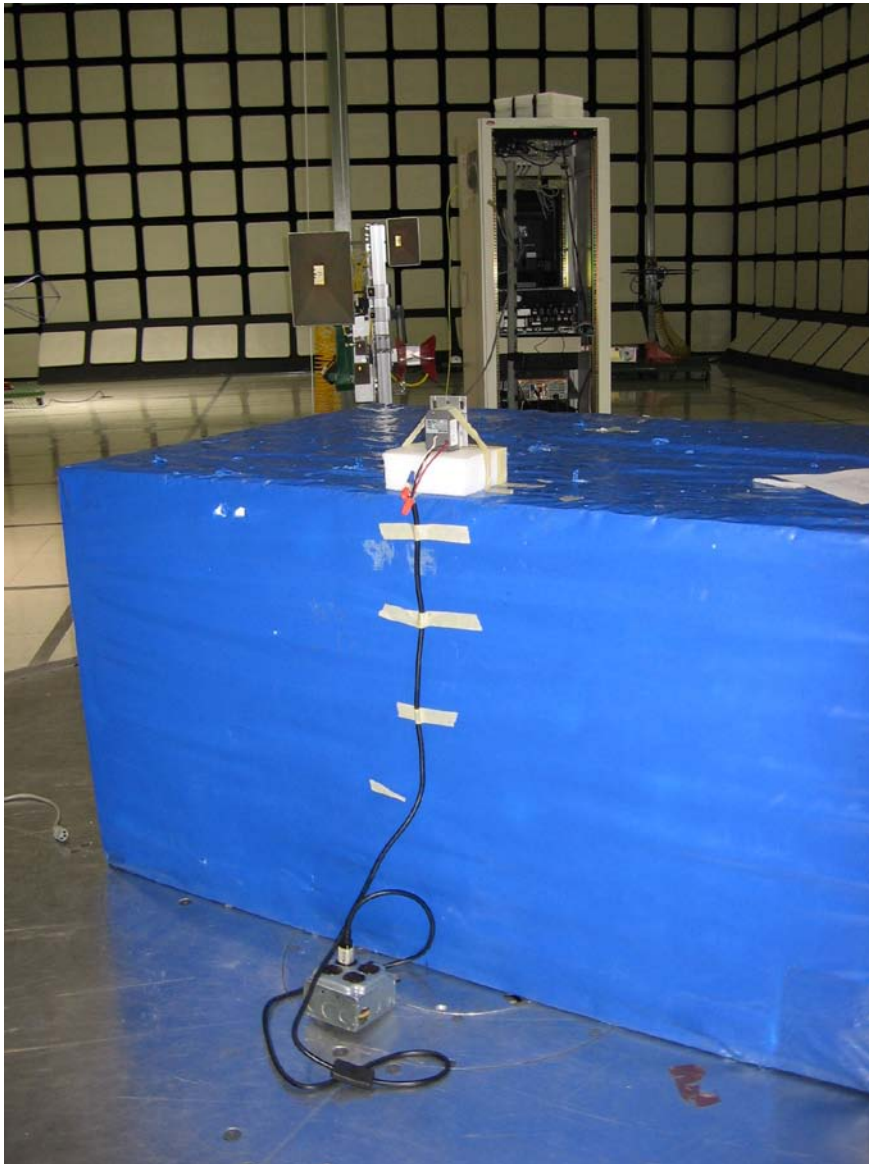
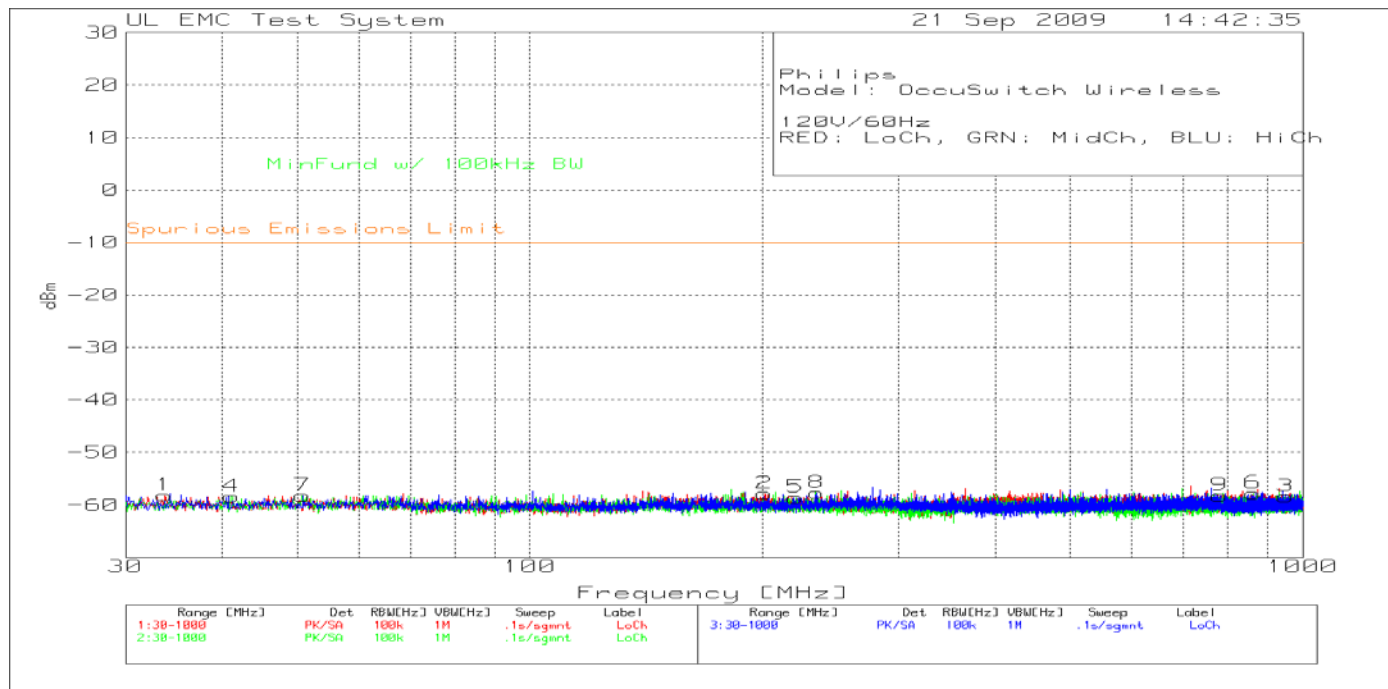
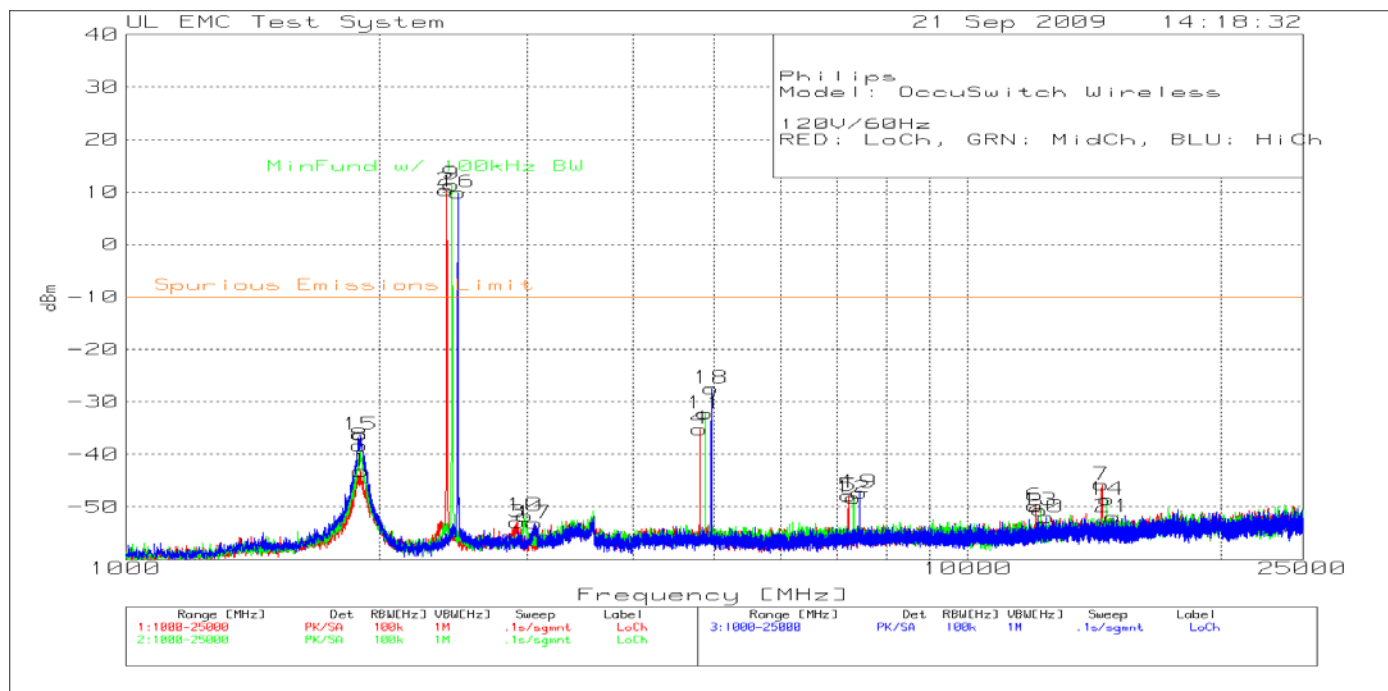


Figure 7 30MHz-1GHz Antenna Port Spurious Emissions Plots TX Mode, Low, Middle and High Channels.



No Emissions recorded within 20dB of the limit.

Figure 8 1GHz-10GHz Antenna Port Spurious Emissions Plots TX Mode, Low, Middle and High Channels.



Job #: 1001132501    File #: MC16272    Project #: 09CA32738A  
 Model Number: LRA1720  
 Client Name: Philips Lighting Electronics N. A.

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**Table 12 Antenna Port Conducted Spurious Emissions Above 1GHz, Low Channel, Middle Channel and High Channel**

Philips  
 Model: OccuSwitch Wireless  
 120V/60Hz  
 RED: LoCh, GRN: MidCh, BLU: HiCh

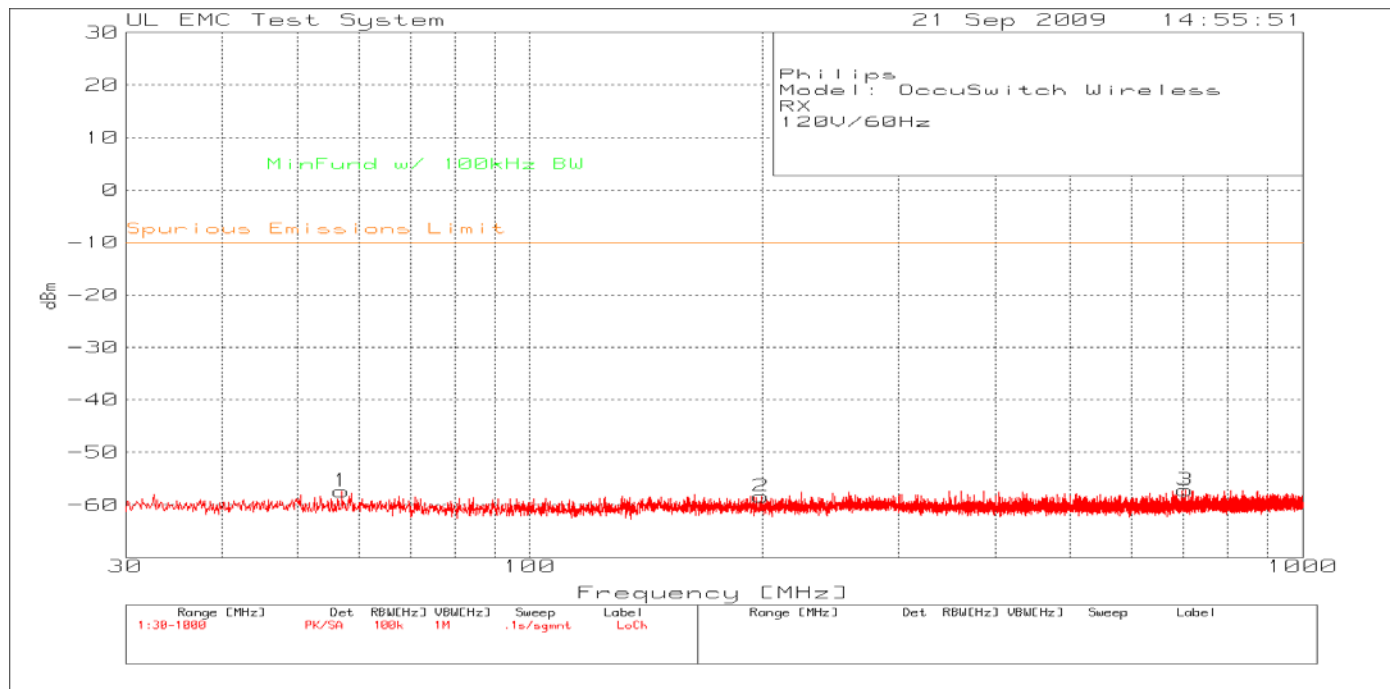
| Marker Number          | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dBm | Limit 1 | Margin 1 [dB] | Limit 2 | Margin 2 [dB] | Height [cm] | Polarity |
|------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|-----------|---------|---------------|---------|---------------|-------------|----------|
| Low Channel Markers    |                      |                        |               |                       |                        |           |         |               |         |               |             |          |
| 1                      | 1901.136             | 53.48                  | pk            | 10.4                  | -107                   | -43.12    |         |               | -10     | -33.12        | 100         | Horz     |
| 2                      | 2404.654             | 106.96                 | pk            | 10.4                  | -107                   | 10.36     | 10      | .36           |         |               | 100         | Horz     |
| 3                      | 2916.164             | 43.52                  | pk            | 10.6                  | -107                   | -52.88    |         |               | -10     | -42.88        | 100         | Horz     |
| 4                      | 4810.348             | 61.05                  | pk            | 10.8                  | -107                   | -35.15    |         |               | -10     | -25.15        | 100         | Horz     |
| 5                      | 7216.043             | 47.74                  | pk            | 11.4                  | -107                   | -47.86    |         |               | -10     | -37.86        | 100         | Horz     |
| 6                      | 12022.437            | 45.57                  | pk            | 11.7                  | -107                   | -49.73    |         |               | -10     | -39.73        | 100         | Horz     |
| 7                      | 14433.127            | 49.25                  | pk            | 12                    | -107                   | -45.75    |         |               | -10     | -35.75        | 100         | Horz     |
| Middle Channel Markers |                      |                        |               |                       |                        |           |         |               |         |               |             |          |
| 8                      | 1899.138             | 58.46                  | pk            | 10.3                  | -107                   | -38.24    |         |               | -10     | -28.24        | 100         | Horz     |
| 9                      | 2439.62              | 108.13                 | pk            | 10.3                  | -107                   | 11.43     | 10      | 1.43          |         |               | 100         | Horz     |
| 10                     | 2981.101             | 44.97                  | pk            | 10.4                  | -107                   | -51.63    |         |               | -10     | -41.63        | 100         | Horz     |
| 11                     | 4878.283             | 63.94                  | pk            | 10.9                  | -107                   | -32.16    |         |               | -10     | -22.16        | 100         | Horz     |
| 12                     | 7320.942             | 47.47                  | pk            | 11.3                  | -107                   | -48.23    |         |               | -10     | -38.23        | 100         | Horz     |
| 13                     | 12197.269            | 44.86                  | pk            | 11.5                  | -107                   | -50.64    |         |               | -10     | -40.64        | 100         | Horz     |
| 14                     | 14642.926            | 46.46                  | pk            | 12                    | -107                   | -48.54    |         |               | -10     | -38.54        | 100         | Horz     |
| High Channel Markers   |                      |                        |               |                       |                        |           |         |               |         |               |             |          |
| 15                     | 1900.137             | 60.34                  | pk            | 10.4                  | -107                   | -36.26    |         |               | -10     | -26.26        | 100         | Horz     |
| 16                     | 2479.582             | 106.46                 | pk            | 10.5                  | -107                   | 9.96      | 10      | -.04          |         |               | 100         | Horz     |
| 17                     | 3058.028             | 43.43                  | pk            | 10.5                  | -107                   | -53.07    |         |               | -10     | -43.07        | 100         | Horz     |
| 18                     | 4959.206             | 68.8                   | pk            | 10.8                  | -107                   | -27.4     |         |               | -10     | -17.4         | 100         | Horz     |
| 19                     | 7437.83              | 48.25                  | pk            | 11.5                  | -107                   | -47.25    |         |               | -10     | -37.25        | 100         | Horz     |
| 20                     | 12403.072            | 43.26                  | pk            | 11.8                  | -107                   | -51.94    |         |               | -10     | -41.94        | 100         | Horz     |
| 21                     | 14882.696            | 43.12                  | pk            | 12                    | -107                   | -51.88    |         |               | -10     | -41.88        | 100         | Horz     |

LIMIT 1: MinFund w/ 100kHz BW  
 LIMIT 2: Spurious Emissions Limit

PK - Peak detector

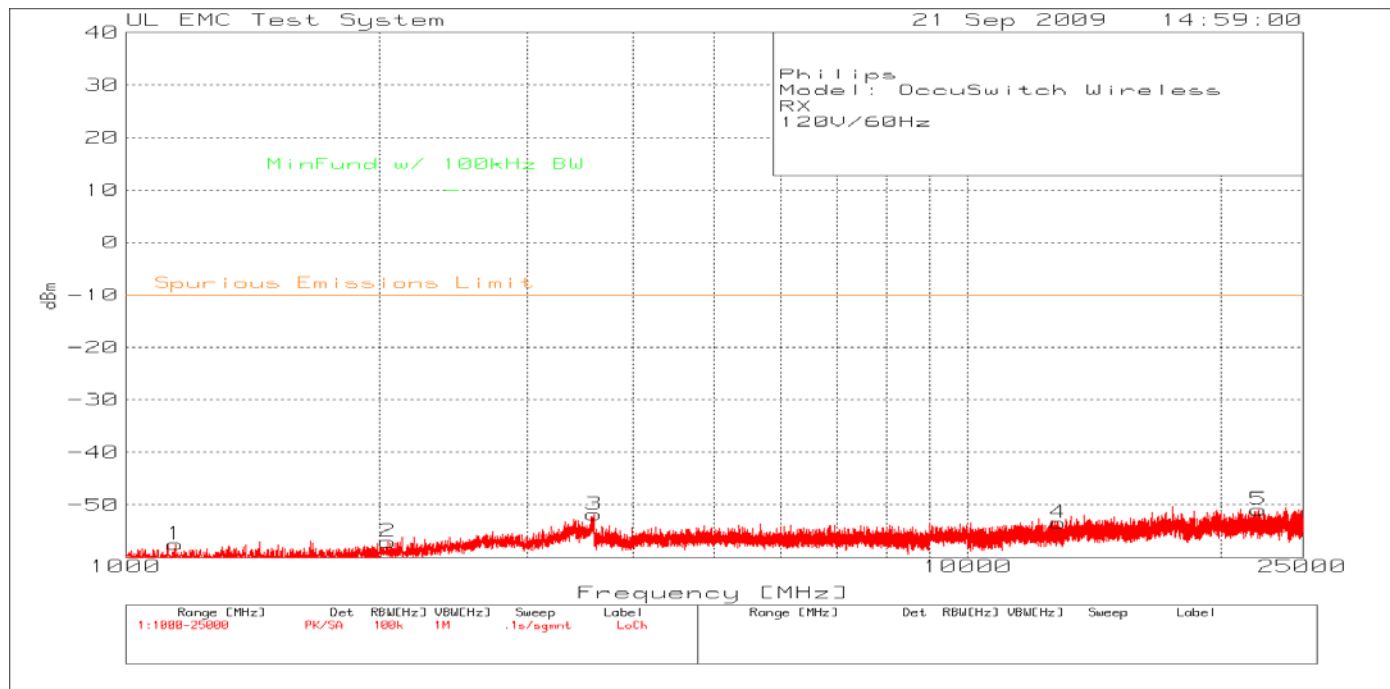
\* - Fundamental frequency, not subject to limit

Figure 9 30MHz-1GHz Antenna Port Conducted Emissions Plots RX Mode, Single Channel.



No Emissions recorded.

Figure 10 1GHz-10GHz Antenna Port Conducted Emissions Plots RX Mode, Single Channel.



No Emissions recorded.



Figure 11 Radiated Spurious Emissions below 1GHz, Low Channel

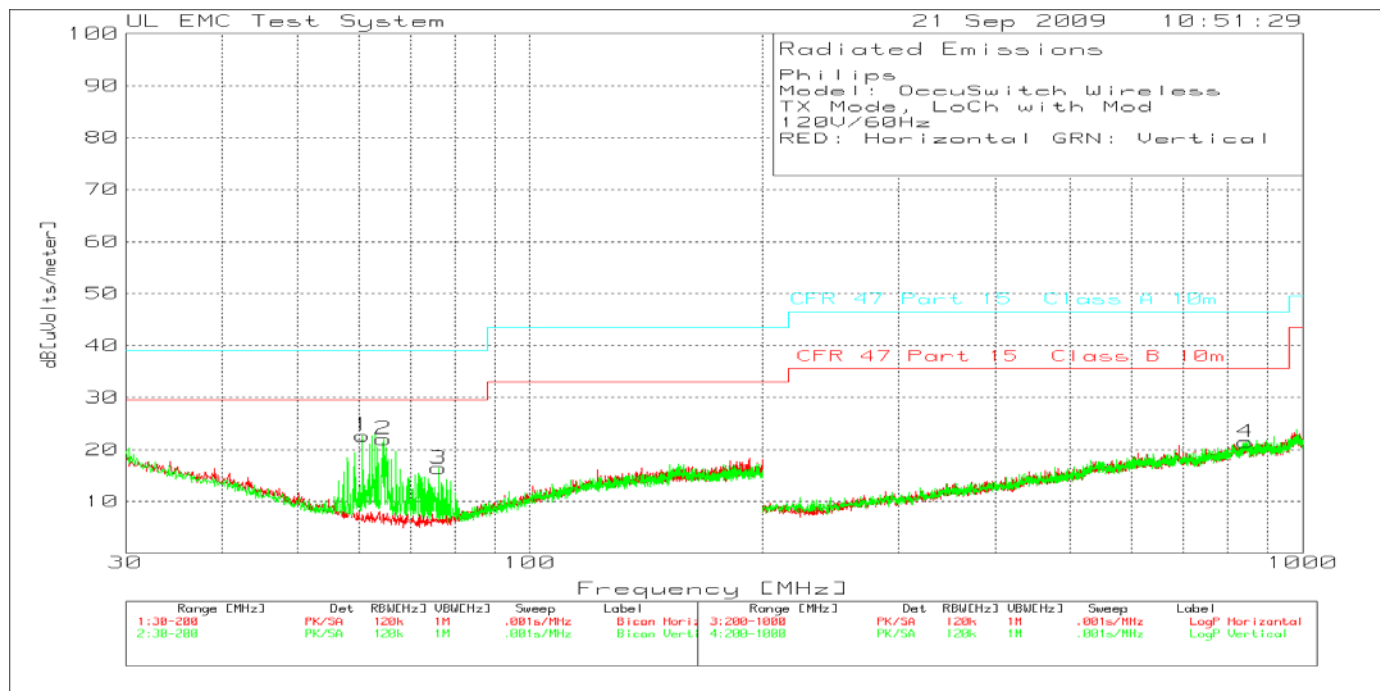
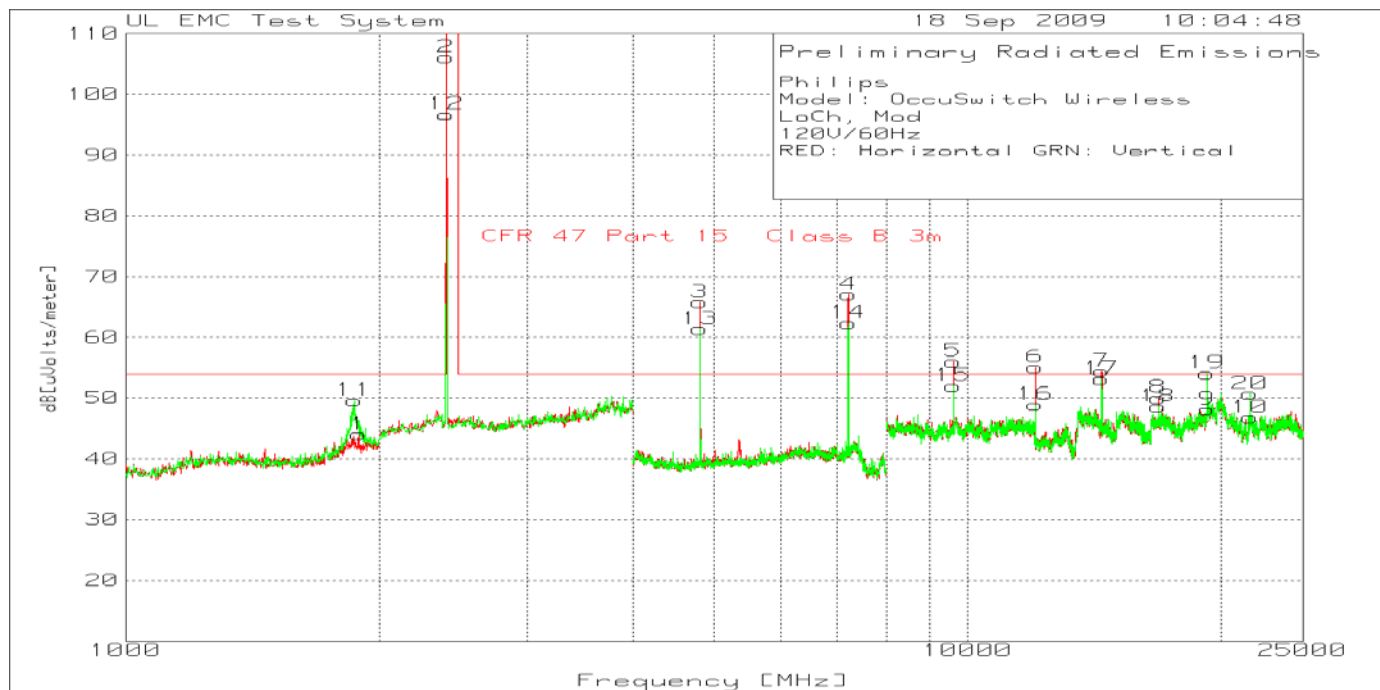


Figure 12 Radiated Spurious Emissions above 1GHz, Low Channel



**Table 13 Radiated Spurious Emissions below 1GHz, Low Channel**

Philips  
 Model: OccuSwitch Wireless  
 TX Mode, LoCh with Mod  
 120V/60Hz  
 RED: Horizontal GRN: Vertical

| Test No. | Frequency [MHz] | Meter Reading [dB(uV)] | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts/meter] | Limit:1 | 2 | 3      | 4      | 5 | 6 |
|----------|-----------------|------------------------|-----------------------|------------------------|------------------------|---------|---|--------|--------|---|---|
| 1        | 60.7546         | 46.39 pk               | -30.3                 | 6.6                    | 22.69                  | -       | - | 39.1   | 29.6   | - | - |
|          |                 | Height:100 Vert        |                       | Margin [dB]            |                        | -       | - | -16.41 | -6.91  | - | - |
| 2        | 64.6627         | 45.99 pk               | -30.3                 | 6.3                    | 21.99                  | -       | - | 39.1   | 29.6   | - | - |
|          |                 | Height:100 Vert        |                       | Margin [dB]            |                        | -       | - | -17.11 | -7.61  | - | - |
| 3        | 76.2169         | 40.11 pk               | -30.3                 | 6.6                    | 16.41                  | -       | - | 39.1   | 29.6   | - | - |
|          |                 | Height:100 Vert        |                       | Margin [dB]            |                        | -       | - | -22.69 | -13.19 | - | - |
| 4        | 843.571         | 30.31 pk               | -31.7                 | 22.8                   | 21.41                  | -       | - | 46.4   | 35.6   | - | - |
|          |                 | Height:200 Vert        |                       | Margin [dB]            |                        | -       | - | -24.99 | -14.19 | - | - |

LIMIT 3: CFR 47 Part 15 Class A 10m  
 LIMIT 4: CFR 47 Part 15 Class B 10m

PK - Peak detector  
 QP - Quasi-Peak detector

**Table 14 Radiated Spurious Emissions above 1GHz, Low Channel**

Philips  
Model: OccuSwitch Wireless  
LoCh, Mod  
120V/60Hz  
RED: Horizontal GRN: Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts/meter] | Limit 1 | Margin 1 [dB] | Height [cm] | Polarity | Comments        |
|---------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------------|---------|---------------|-------------|----------|-----------------|
| 1             | 1889.78              | 56.42                  | pk            | -43.23                | 30.8                   | 43.99                  | 54      | -10.01        | 150         | Horz     | Note 1          |
| 2             | 2404.81              | 79.89                  | pk            | 4.41                  | 21.8                   | 106.1                  |         |               | 100         | Horz     | TX Frequency    |
| 3             | 4811.207             | 89.42                  | pk            | -51.34                | 27.7                   | 65.78                  | 54      | 11.78         | 100         | Horz     | See table below |
| 4             | 7215.477             | 84.27                  | pk            | -47.03                | 29.8                   | 67.04                  | 54      | 13.04         | 100         | Horz     | See table below |
| 5             | 9622.415             | 69.9                   | pk            | -50.25                | 36.4                   | 56.05                  | 54      | 2.05          | 150         | Horz     | Note 1          |
| 6             | 12027.014            | 61.47                  | pk            | -45.79                | 39.4                   | 55.08                  | 54      | 1.08          | 150         | Horz     | See table below |
| 7             | 14428.214            | 52.94                  | pk            | -38.28                | 39.8                   | 54.46                  | 54      |               | 150         | Horz     | Note 1          |
| 8             | 16838.419            | 48.8                   | pk            | -38.97                | 40.2                   | 50.03                  | 54      | -3.97         | 150         | Horz     | Note 1          |
| 9             | 19267.634            | 65.75                  | pk            | -57.92                | 40.3                   | 48.13                  | 54      | -5.87         | 150         | Horz     | See table below |
| 10            | 21648.824            | 59.46                  | pk            | -53.08                | 40.4                   | 46.78                  | 54      | -7.22         | 100         | Horz     | Note 1          |
| 11            | 1869.739             | 62.31                  | pk            | -43.29                | 30.6                   | 49.62                  | 54      | -4.38         | 150         | Vert     | Note 1          |
| 12            | 2404.81              | 70.51                  | pk            | 4.41                  | 21.8                   | 96.72                  |         |               | 100         | Vert     | TX Frequency    |
| 13            | 4811.207             | 85.03                  | pk            | -51.34                | 27.7                   | 61.39                  | 54      | 7.39          | 150         | Vert     | See table below |
| 14            | 7215.477             | 79.59                  | pk            | -47.03                | 29.8                   | 62.36                  | 54      | 8.36          | 100         | Vert     | See table below |
| 15            | 9617.078             | 65.85                  | pk            | -50.25                | 36.4                   | 52                     | 54      | -2            | 150         | Vert     | Note 1          |
| 16            | 12027.014            | 55.32                  | pk            | -45.79                | 39.4                   | 48.93                  | 54      | -5.07         | 100         | Vert     | See table below |
| 17            | 14425.213            | 51.7                   | pk            | -38.33                | 39.8                   | 53.17                  | 54      | -8.3          | 150         | Vert     | Note 1          |
| 18            | 16832.416            | 47.41                  | pk            | -38.99                | 40.2                   | 48.62                  | 54      | -5.38         | 150         | Vert     | Note 1          |
| 19            | 19236.118            | 72.03                  | pk            | -58.25                | 40.3                   | 54.08                  | 54      | .08           | 101         | Vert     | See table below |
| 20            | 21648.824            | 63.36                  | pk            | -53.08                | 40.4                   | 50.68                  | 54      | -3.32         | 101         | Vert     | Note 1          |

Note 1: Product of transmitter, not in restricted band, Radiated Emission Limits do not apply.

LIMIT 1: CFR 47 Part 15 Class B 3m

pk - Peak detector  
av - Average detector

File: RE 1GHz-25GHz LoChMod.TXT

| Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | RBW / VBW | Gain/Loss Factor [dB] | Transducer Factor [dB] | DC Factor dB | Level dB[uVolts/meter] | Limit 1 | Margin 1 [dB] | Azimuth [deg] | Height [cm] | Polarity | Comments |
|----------------------|------------------------|---------------|-----------|-----------------------|------------------------|--------------|------------------------|---------|---------------|---------------|-------------|----------|----------|
| 4810.9218            | 89.84                  | pk            | 1MHz/1MHz | -51.35                | 27.7                   | 0            | 66.19                  | 74      | -7.81         | 334           | 110         | Horz     | None     |
| 4810.994             | 84.5                   | av            | 1MHz/10Hz | -51.34                | 27.7                   | -21.75       | 39.11                  | 54      | -14.89        | 334           | 110         | Horz     | None     |
| 4810.9098            | 85.81                  | pk            | 1MHz/1MHz | -51.35                | 27.7                   | 0            | 62.16                  | 74      | -11.84        | 31            | 121         | Vert     | None     |
| 4809.1423            | 80.4                   | av            | 1MHz/10Hz | -51.36                | 27.7                   | -21.75       | 34.99                  | 54      | -19.01        | 31            | 121         | Vert     | None     |
| 7213.6353            | 78.28                  | pk            | 1MHz/1MHz | -47                   | 29.8                   | 0            | 61.08                  | 74      | -12.92        | 118           | 100         | Vert     | None     |
| 7213.7675            | 72.42                  | av            | 1MHz/10Hz | -47                   | 29.8                   | -21.75       | 33.47                  | 54      | -20.53        | 118           | 100         | Vert     | None     |
| 7213.6593            | 84.58                  | pk            | 1MHz/1MHz | -47                   | 29.8                   | 0            | 67.38                  | 74      | -6.62         | 312           | 100         | Horz     | None     |
| 7213.6834            | 78.85                  | av            | 1MHz/10Hz | -47                   | 29.8                   | -21.75       | 39.9                   | 54      | -14.1         | 312           | 100         | Horz     | None     |
| 12022.552            | 70.68                  | pk            | 1MHz/1MHz | -45.69                | 39.4                   | 0            | 64.39                  | 74      | -9.61         | 0             | 120         | Horz     | None     |
| 12027.502            | 62.1                   | av            | 1MHz/10Hz | -45.8                 | 39.4                   | -21.75       | 33.95                  | 54      | -20.05        | 0             | 120         | Horz     | None     |
| 12022.773            | 65.93                  | pk            | 1MHz/1MHz | -45.69                | 39.4                   | 0            | 59.64                  | 74      | -14.36        | 295           | 106         | Vert     | None     |
| 12022.552            | 56.28                  | av            | 1MHz/10Hz | -45.69                | 39.4                   | -21.75       | 28.24                  | 54      | -25.76        | 295           | 106         | Vert     | None     |
| 19243.639            | 76.82                  | pk            | 1MHz/1MHz | -58.17                | 40.3                   | 0            | 58.95                  | 74      | -15.05        | 14            | 101         | Vert     | None     |
| 19236.906            | 67.32                  | av            | 1MHz/10Hz | -58.25                | 40.3                   | -21.75       | 27.62                  | 54      | -26.38        | 14            | 101         | Vert     | None     |
| 19236.352            | 72.59                  | pk            | 1MHz/1MHz | -58.25                | 40.3                   | 0            | 54.64                  | 74      | -19.36        | 64            | 100         | Horz     | None     |
| 19243.987            | 61.33                  | av            | 1MHz/10Hz | -58.17                | 40.3                   | -21.75       | 21.71                  | 54      | -32.29        | 64            | 100         | Horz     | None     |

LIMIT 1: CFR 47 Part 15 Class B 3m

pk - Peak detector  
av - Average detector



Figure 13 Radiated Spurious Emissions below 1GHz, Middle Channel

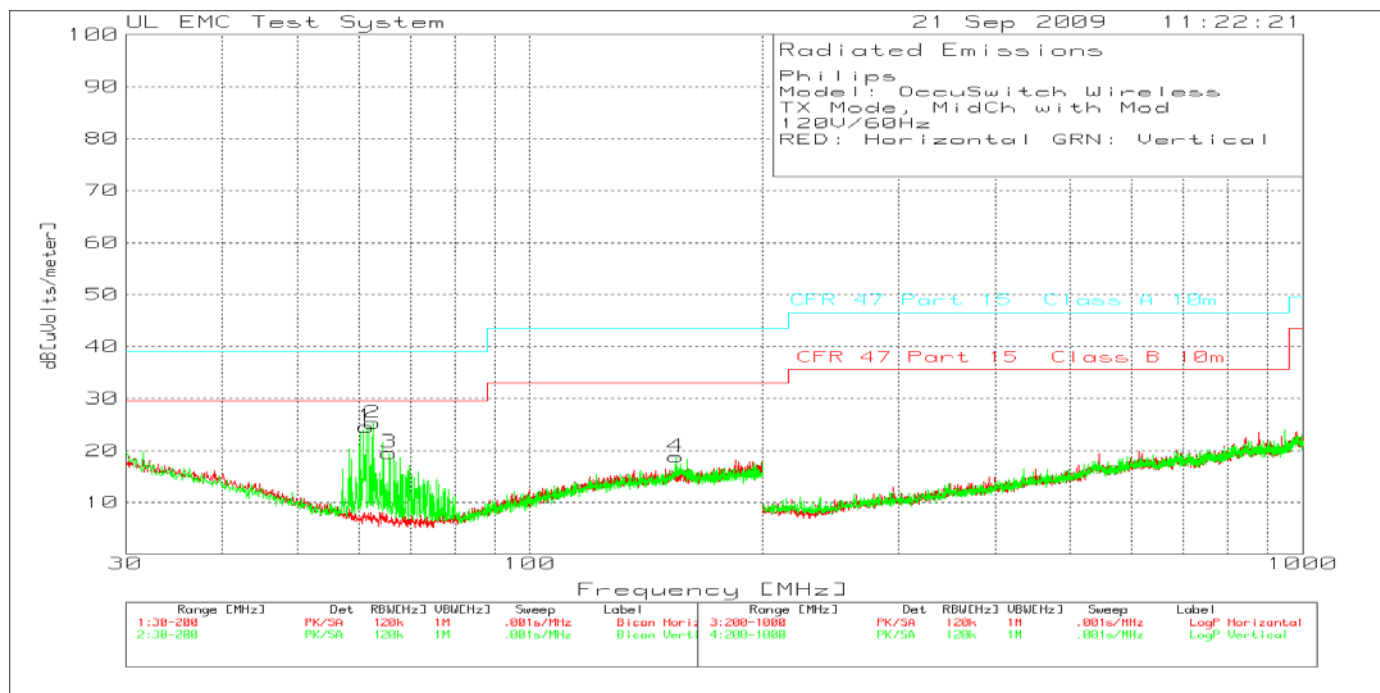
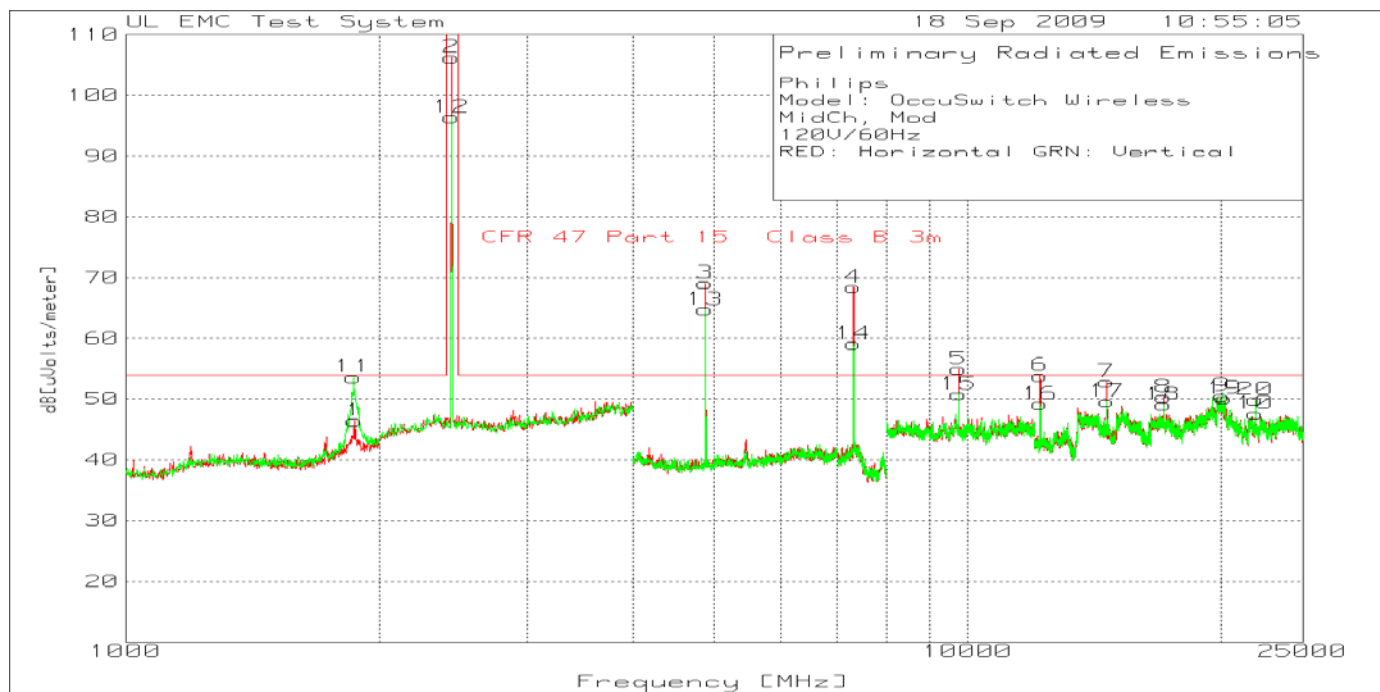


Figure 14 Radiated Spurious Emissions above 1GHz, Middle Channel



Job #: 1001132501    File #: MC16272    Project #: 09CA32738A  
 Model Number: LRA1720  
 Client Name: Philips Lighting Electronics N. A.

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**Table 15 Radiated Spurious Emissions below 1GHz, Middle Channel**

Philips  
 Model: OccuSwitch Wireless  
 TX Mode, MidCh with Mod  
 120V/60Hz  
 RED: Horizontal GRN: Vertical

| Test No. | Frequency [MHz] | Meter Reading [dB(uV)] | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts/meter] | Limit:1 | 2 | 3      | 4      | 5 | 6 |
|----------|-----------------|------------------------|-----------------------|------------------------|------------------------|---------|---|--------|--------|---|---|
| 1        | 61.4343         | 48.27 pk               | -30.3                 | 6.6                    | 24.57                  | -       | - | 39.1   | 29.6   | - | - |
|          |                 | Height:100 Vert        |                       | Margin [dB]            |                        | -       | - | -14.53 | -5.03  | - | - |
| 2        | 62.7086         | 49.12 pk               | -30.3                 | 6.5                    | 25.32                  | -       | - | 39.1   | 29.6   | - | - |
|          |                 | Height:100 Vert        |                       | Margin [dB]            |                        | -       | - | -13.78 | -4.28  | - | - |
| 3        | 65.7671         | 43.58 pk               | -30.3                 | 6.3                    | 19.58                  | -       | - | 39.1   | 29.6   | - | - |
|          |                 | Height:100 Vert        |                       | Margin [dB]            |                        | -       | - | -19.52 | -10.02 | - | - |
| 4        | 154.5477        | 34.11 pk               | -30.2                 | 14.9                   | 18.81                  | -       | - | 43.5   | 33.1   | - | - |
|          |                 | Height:100 Vert        |                       | Margin [dB]            |                        | -       | - | -24.69 | -14.29 | - | - |

LIMIT 3: CFR 47 Part 15 Class A 10m  
 LIMIT 4: CFR 47 Part 15 Class B 10m

PK - Peak detector  
 QP - Quasi-Peak detector

**Table 16 Radiated Spurious Emissions above 1GHz, Middle Channel**

Philips  
Model: OccuSwitch Wireless  
MidCh, Mod  
120V/60Hz  
RED: Horizontal GRN: Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts/meter] | Limit 1 | Margin 1 [dB] | Height [cm] | Polarity | Comments        |
|---------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------------|---------|---------------|-------------|----------|-----------------|
| 1             | 1867.735             | 59.14                  | pk            | -43.3                 | 30.6                   | 46.44                  | 54      | -7.56         | 100         | Horz     | Note 1          |
| 2             | 2436.874             | 80.46                  | pk            | 3.89                  | 21.9                   | 106.25                 |         |               | 150         | Horz     | TX Frequency    |
| 3             | 4879.253             | 92.54                  | pk            | -51.15                | 27.7                   | 69.09                  | 54      | 15.09         | 100         | Horz     | See table below |
| 4             | 7319.546             | 84.18                  | pk            | -46.37                | 30.6                   | 68.41                  | 54      | 14.41         | 100         | Horz     | See table below |
| 5             | 9761.174             | 68.93                  | pk            | -50.39                | 36.4                   | 54.94                  | 54      | 9.4           | 150         | Horz     | Note 1          |
| 6             | 12195.098            | 60.5                   | pk            | -46.07                | 39.4                   | 53.83                  | 54      | -1.17         | 149         | Horz     | See table below |
| 7             | 14638.319            | 50.39                  | pk            | -37.35                | 39.8                   | 52.84                  | 54      | -1.16         | 149         | Horz     | Note 1          |
| 8             | 17078.539            | 48.81                  | pk            | -38.78                | 40.3                   | 50.33                  | 54      | -3.67         | 100         | Horz     | Note 1          |
| 9             | 20048.524            | 64.42                  | pk            | -54.11                | 40.2                   | 50.51                  | 54      | -3.49         | 150         | Horz     | Note 2          |
| 10            | 21963.982            | 59.59                  | pk            | -52.37                | 40.4                   | 47.62                  | 54      | -6.38         | 100         | Horz     | Note 1          |
| 11            | 1863.727             | 66.29                  | pk            | -43.28                | 30.6                   | 53.61                  | 54      | -3.39         | 150         | Vert     | Note 1          |
| 12            | 2436.874             | 70.61                  | pk            | 3.89                  | 21.9                   | 96.4                   |         |               | 100         | Vert     | TX Frequency    |
| 13            | 4880.587             | 88.15                  | pk            | -51.13                | 27.7                   | 64.72                  | 54      | 10.72         | 101         | Vert     | See table below |
| 14            | 7319.546             | 74.85                  | pk            | -46.37                | 30.6                   | 59.08                  | 54      | 5.08          | 101         | Vert     | See table below |
| 15            | 9758.506             | 64.76                  | pk            | -50.38                | 36.4                   | 50.78                  | 54      | -3.22         | 150         | Vert     | Note 1          |
| 16            | 12195.098            | 55.85                  | pk            | -46.07                | 39.4                   | 49.18                  | 54      | -4.82         | 101         | Vert     | See table below |
| 17            | 14641.321            | 47.12                  | pk            | -37.3                 | 39.8                   | 49.62                  | 54      | -4.38         | 101         | Vert     | Note 1          |
| 18            | 17084.542            | 47.53                  | pk            | -38.73                | 40.3                   | 49.1                   | 54      | -4.9          | 150         | Vert     | Note 1          |
| 19            | 20192.096            | 65.19                  | pk            | -55.29                | 40.2                   | 50.1                   | 54      | -3.9          | 101         | Vert     | Note 2          |
| 20            | 21967.484            | 61.87                  | pk            | -52.37                | 40.4                   | 49.9                   | 54      | -4.1          | 101         | Vert     | Note 1          |

**Note 1:** Product of transmitter, not in restricted band, Radiated Emission Limits do not apply.

**Note 2:** Product of the transmitter, restricted band, pre-scan peak level well under the limit. For average limit -21.75dB duty cycle factor may be applied.

LIMIT 1: CFR 47 Part 15 Class B 3m

pk - Peak detector

| Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | RBW / VBW | Gain/Loss Factor [dB] | Transducer Factor [dB] | DC Factor dB | Level dB[uVolts/eter] | Limit 1 | Margin 1 [dB] | Azimuth [deg] | Height [cm] | Polarity |
|----------------------|------------------------|---------------|-----------|-----------------------|------------------------|--------------|-----------------------|---------|---------------|---------------|-------------|----------|
| 1868.4108            | 78.05                  | pk            |           | -43.29                | 30.6                   | 0            | 65.36                 | 74      | -8.64         | 320           | 115         | Vert     |
| 1868.0501            | 66.35                  | av            |           | -43.29                | 30.6                   | -21.75       | 31.91                 | 54      | -22.09        | 320           | 115         | Vert     |
| 4878.996             | 92.65                  | pk            |           | -51.15                | 27.7                   | 0            | 69.2                  | 74      | -4.8          | 329           | 102         | Horz     |
| 4879.0922            | 87.63                  | av            |           | -51.15                | 27.7                   | -21.75       | 42.43                 | 54      | -11.57        | 329           | 102         | Horz     |
| 4880.998             | 88.21                  | pk            |           | -51.13                | 27.7                   | 0            | 64.78                 | 74      | -9.22         | 25            | 136         | Vert     |
| 4879.0982            | 83.18                  | av            |           | -51.15                | 27.7                   | -21.75       | 37.98                 | 54      | -16.02        | 25            | 136         | Vert     |
| 7318.3988            | 76.55                  | pk            |           | -46.36                | 30.6                   | 0            | 60.79                 | 74      | -13.21        | 288           | 117         | Vert     |
| 7318.7475            | 70.32                  | av            |           | -46.36                | 30.6                   | -21.75       | 32.81                 | 54      | -21.19        | 288           | 117         | Vert     |
| 7318.495             | 85.63                  | pk            |           | -46.36                | 30.6                   | 0            | 69.87                 | 74      | -4.13         | 321           | 103         | Horz     |
| 7318.7475            | 79.95                  | av            |           | -46.36                | 30.6                   | -21.75       | 42.44                 | 54      | -11.56        | 321           | 103         | Horz     |
| 12202.535            | 69.93                  | pk            |           | -46.06                | 39.4                   | 0            | 63.27                 | 74      | -10.73        | 0             | 108         | Horz     |
| 12197.625            | 62.38                  | av            |           | -46.09                | 39.4                   | -21.75       | 33.94                 | 54      | -20.06        | 0             | 108         | Horz     |
| 12197.405            | 66.73                  | pk            |           | -46.09                | 39.4                   | 0            | 60.04                 | 74      | -13.96        | 259           | 108         | Vert     |
| 12197.565            | 58.72                  | av            |           | -46.09                | 39.4                   | -21.75       | 30.28                 | 54      | -23.72        | 259           | 108         | Vert     |

LIMIT 1: CFR 47 Part 15 Class B 3m

pk - Peak detector

av - Average detector

Figure 15 Radiated Spurious Emissions below 1GHz, High Channel

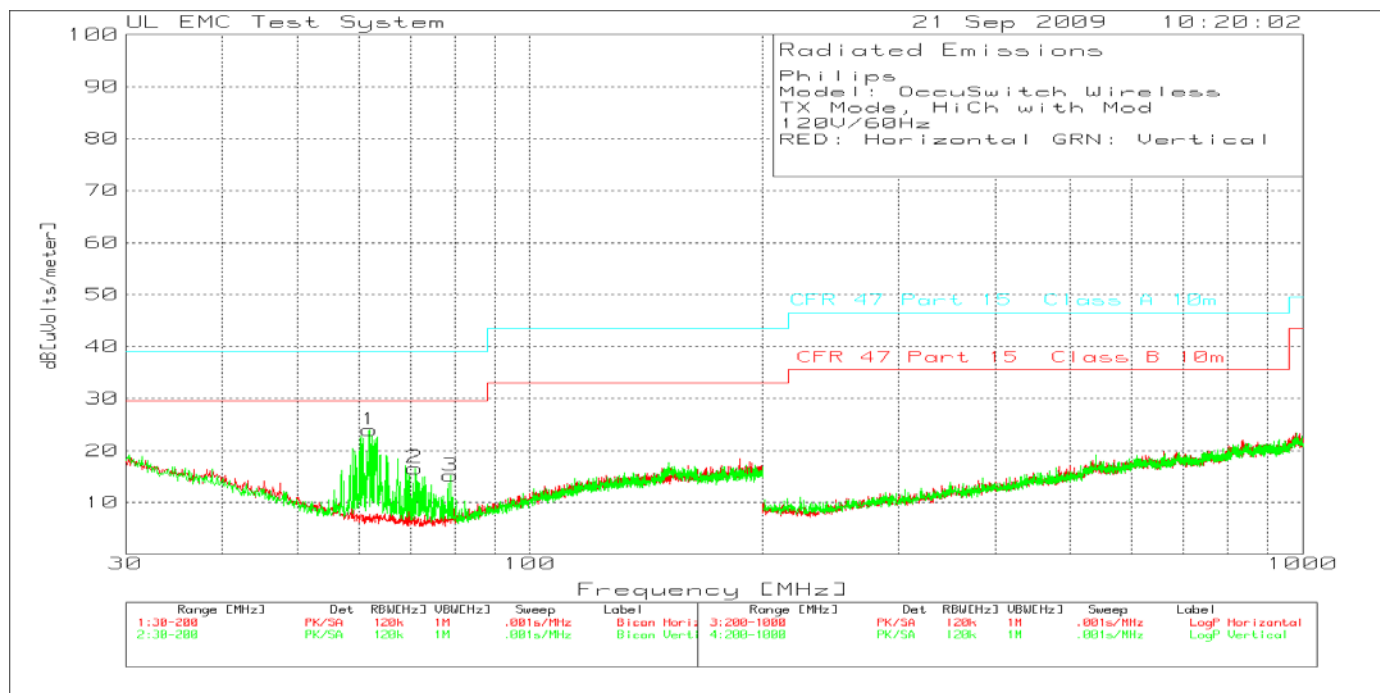


Figure 16 Radiated Spurious Emissions above 1GHz, High Channel



Job #: 1001132501    File #: MC16272    Project #: 09CA32738A  
 Model Number: LRA1720  
 Client Name: Philips Lighting Electronics N. A.

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# Table 17 Radiated Spurious Emissions below 1GHz, High Channel

Philips  
 Model: OccuSwitch Wireless  
 TX Mode, HiCh with Mod  
 120V/60Hz  
 RED: Horizontal GRN: Vertical

| Test No. | Frequency [MHz] | Meter Reading [dB(uV)] | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts/meter] | Limit:1 | 2 | 3      | 4      | 5 | 6 |
|----------|-----------------|------------------------|-----------------------|------------------------|------------------------|---------|---|--------|--------|---|---|
| 1        | 62.029          | 47.68 pk               | -30.3                 | 6.6                    | 23.98                  | -       | - | 39.1   | 29.6   | - | - |
|          |                 | Height:100 Vert        |                       | Margin [dB]            |                        | -       | - | -15.12 | -5.62  | - | - |
| 2        | 70.9495         | 40.73 pk               | -30.3                 | 6.2                    | 16.63                  | -       | - | 39.1   | 29.6   | - | - |
|          |                 | Height:100 Vert        |                       | Margin [dB]            |                        | -       | - | -22.47 | -12.97 | - | - |
| 3        | 79.0205         | 38.49 pk               | -30.2                 | 6.9                    | 15.19                  | -       | - | 39.1   | 29.6   | - | - |
|          |                 | Height:100 Vert        |                       | Margin [dB]            |                        | -       | - | -23.91 | -14.41 | - | - |

LIMIT 3: CFR 47 Part 15 Class A 10m  
 LIMIT 4: CFR 47 Part 15 Class B 10m

PK - Peak detector  
 QP - Quasi-Peak detector  
 av - Linear average detector

**Table 18 Radiated Spurious Emissions above 1GHz, High Channel**

Philips  
Model: OccuSwitch Wireless  
HiCh, Mod  
120V/60Hz  
RED: Horizontal GRN: Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts/meter] | Limit 1 | Margin 1 [dB] | Height [cm] | Polarity | Comments        |
|---------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------------|---------|---------------|-------------|----------|-----------------|
| 1             | 1861.723             | 61.21                  | pk            | -43.3                 | 30.6                   | 48.51                  | 54      | -5.49         | 150         | Horz     | Note 1          |
| 2             | 2476.954             | 82.88                  | pk            | 4.18                  | 22                     | 109.06                 |         |               | 100         | Horz     | TX Frequency    |
| 3             | 4957.972             | 95.16                  | pk            | -51.27                | 27.8                   | 71.69                  | 54      | 17.69         | 100         | Horz     | See table below |
| 4             | 7439.626             | 81.77                  | pk            | -47.31                | 30.6                   | 65.06                  | 54      | 11.06         | 100         | Horz     | See table below |
| 5             | 9918.612             | 67.92                  | pk            | -50.66                | 36.4                   | 53.66                  | 54      | -.34          | 150         | Horz     | Note 1          |
| 6             | 12396.198            | 59.74                  | pk            | -45.39                | 39.4                   | 53.75                  | 54      | -.25          | 150         | Horz     | Note 2          |
| 7             | 14884.442            | 48.74                  | pk            | -38.14                | 39.8                   | 50.4                   | 54      | -3.6          | 150         | Horz     | Note 1          |
| 8             | 19810.405            | 65.09                  | pk            | -55.4                 | 40.3                   | 49.99                  | 54      | -4.01         | 150         | Horz     | Note 2          |
| 9             | 22307.154            | 58.46                  | pk            | -51.72                | 40.5                   | 47.24                  | 54      | -6.76         | 150         | Horz     | Note 2          |
| 10            | 1861.723             | 70.18                  | pk            | -43.3                 | 30.6                   | 57.48                  | 54      | 3.48          | 150         | Vert     | See table below |
| 11            | 2480.962             | 73.41                  | pk            | 4.08                  | 22                     | 99.49                  |         |               | 100         | Vert     | TX Frequency    |
| 12            | 4957.972             | 90.87                  | pk            | -51.27                | 27.8                   | 67.4                   | 54      | 13.4          | 100         | Vert     | See table below |
| 13            | 7442.295             | 72.96                  | pk            | -47.28                | 30.5                   | 56.18                  | 54      | 2.18          | 100         | Vert     | See table below |
| 14            | 9921.281             | 62.96                  | pk            | -50.58                | 36.4                   | 48.78                  | 54      | -5.22         | 150         | Vert     | Note 1          |
| 15            | 12396.198            | 56.72                  | pk            | -45.39                | 39.4                   | 50.73                  | 54      | -3.27         | 150         | Vert     | Note 2          |
| 16            | 14878.439            | 45.85                  | pk            | -38.2                 | 39.8                   | 47.45                  | 54      | -6.55         | 150         | Vert     | Note 1          |
| 17            | 19834.917            | 67.77                  | pk            | -55.27                | 40.3                   | 52.8                   | 54      | -1.2          | 100         | Vert     | Note 2          |
| 18            | 22324.662            | 59.54                  | pk            | -51.36                | 40.5                   | 48.68                  | 54      | -5.32         | 100         | Vert     | Note 2          |

**Note 1:** Product of transmitter, not in restricted band, Radiated Emission Limits do not apply.

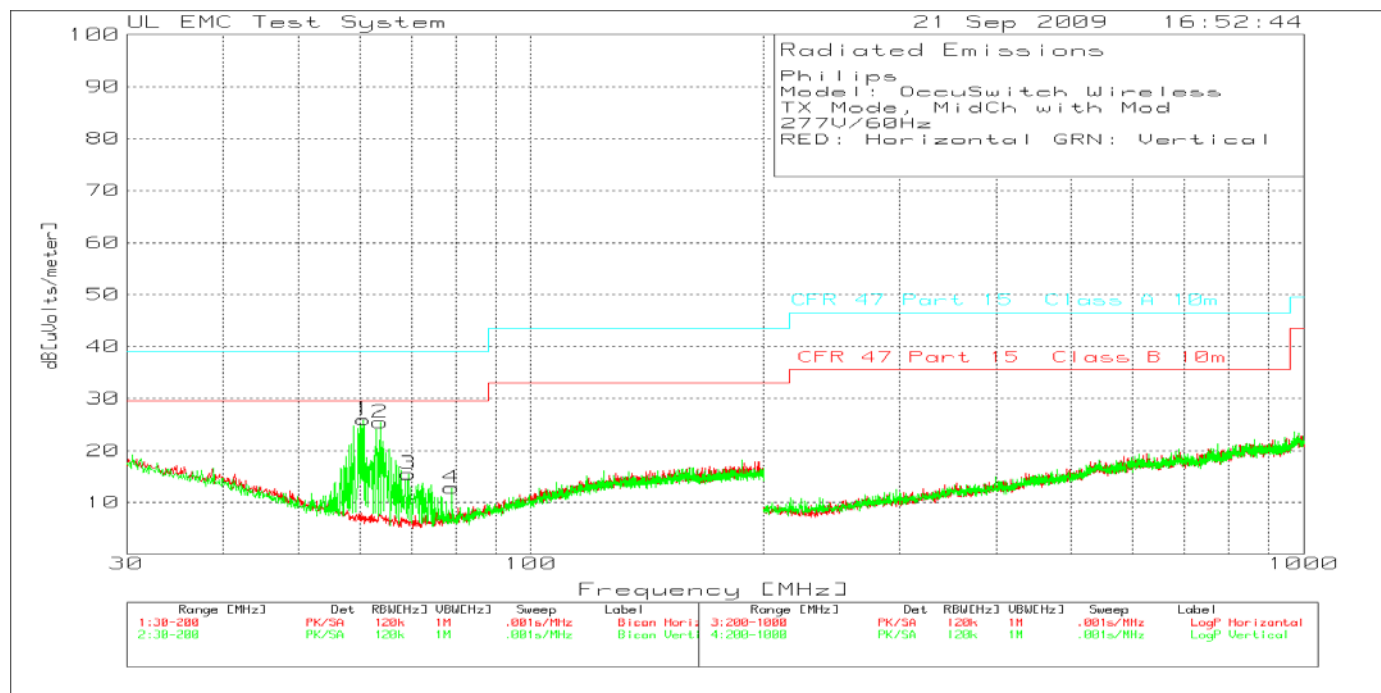
**Note 2:** Product of the transmitter, restricted band, pre-scan peak level well under the limit. For average limit -21.75dB duty cycle factor may be applied.

| Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | RBW / VBW | Gain/Loss Factor [dB] | Transducer Factor [dB] | DC Factor dB | Level dB[uV/m] | Limit 1 | Margin 1 [dB] | Azimuth [degs] | Height [cm] | Polarity |
|----------------------|------------------------|---------------|-----------|-----------------------|------------------------|--------------|----------------|---------|---------------|----------------|-------------|----------|
| 1860.9519            | 81.04                  | pk            | 1MHz/1MHz | -43.3                 | 30.6                   | 0            | 68.34          | 74      | -5.66         | 321            | 111         | Vert     |
| 1860.0701            | 70.47                  | av            | 1MHz/10Hz | -43.29                | 30.6                   | -21.75       | 36.03          | 54      | -17.97        | 321            | 111         | Vert     |
| 4958.9649            | 95.57                  | pk            | 1MHz/1MHz | -51.28                | 27.8                   | 0            | 72.09          | 74      | -1.91         | 331            | 100         | Horz     |
| 4959.0852            | 90.52                  | av            | 1MHz/10Hz | -51.28                | 27.8                   | -21.75       | 45.29          | 54      | -8.71         | 331            | 100         | Horz     |
| 4959.013             | 92.68                  | pk            | 1MHz/1MHz | -51.28                | 27.8                   | 0            | 69.2           | 74      | -4.8          | 25             | 130         | Vert     |
| 4959.0731            | 87.64                  | av            | 1MHz/10Hz | -51.28                | 27.8                   | -21.75       | 42.41          | 54      | -11.59        | 25             | 130         | Vert     |
| 7438.2605            | 81.11                  | pk            | 1MHz/1MHz | -47.37                | 30.6                   | 0            | 64.34          | 74      | -9.66         | 340            | 121         | Vert     |
| 7438.7415            | 75.21                  | av            | 1MHz/10Hz | -47.35                | 30.6                   | -21.75       | 36.71          | 54      | -17.29        | 340            | 121         | Vert     |
| 7438.4228            | 83.93                  | pk            | 1MHz/1MHz | -47.37                | 30.6                   | 0            | 67.16          | 74      | -6.84         | 325            | 102         | Horz     |
| 7438.7475            | 78.03                  | av            | 1MHz/10Hz | -47.35                | 30.6                   | -21.75       | 39.53          | 54      | -14.47        | 325            | 102         | Horz     |

LIMIT 1: CFR 47 Part 15 Class B 3m

pk - Peak detector  
av - Average detector

Figure 17 Radiated Spurious Emissions below 1GHz, Middle Channel with 277V source



Only below 1GHz Radiated Emissions on middle channel were conducted. Based on the design, the change in input voltage will not change emissions above 1GHz. There is no significant differences in emissions below 1GHz as well therefore only middle channel data is provided as a reference.

Table 19 Radiated Spurious Emissions below 1GHz, Middle Channel with 277V source

Philips  
Model: OccuSwitch Wireless  
TX Mode, MidCh with Mod  
277V/60Hz  
RED: Horizontal GRN: Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts/meter] | Limit 3 | Margin 3 [dB] | Limit 4 | Margin 4 [dB] | Height [cm] | Polarity |
|---------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------------|---------|---------------|---------|---------------|-------------|----------|
| 1             | 60.7546              | 49.64                  | pk            | -30.3                 | 6.6                    | 25.94                  | 39.1    | -13.16        | 29.6    | -3.66         | 100         | Vert     |
| 2             | 63.8981              | 49.32                  | pk            | -30.3                 | 6.4                    | 25.42                  | 39.1    | -13.68        | 29.6    | -4.18         | 100         | Vert     |
| 3             | 69.4203              | 39.62                  | pk            | -30.3                 | 6.2                    | 15.52                  | 39.1    | -23.58        | 29.6    | -14.08        | 100         | Vert     |
| 4             | 78.9355              | 36.1                   | pk            | -30.2                 | 6.9                    | 12.8                   | 39.1    | -26.3         | 29.6    | -16.8         | 100         | Vert     |

LIMIT 3: CFR 47 Part 15 Class A 10m  
LIMIT 4: CFR 47 Part 15 Class B 10m

PK - Peak detector  
QP - Quasi-Peak detector

#### 4.4 Test Conditions and Results – BAND EDGE COMPLIANCE

|   |  |                   |
|---|--|-------------------|
| Test Description  | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)). |                   |
| Basic Standard  | 47 CFR Part 15.247(d)<br>RSS-210, A8.5   |                   |
|   | Frequency range  | Measurement Point |
| Fully configured sample scanned over the following frequency range  | 2400MHz – 2483.5MHz  | Antenna Conducted |
| Limits  |  |                   |
| Measurement Type  |  |                   |
| Conducted   | Antenna Conducted – 20dB below the fundamental   |                   |
| Radiated  | Must meet the restricted band limit adjacent to the bandedge.  |                   |
| Supplementary information: Only Antenna Conducted Measurements required. No restricted bands close to the allocated frequency band. |  |                   |

**Table 20 Band Edge Compliance EUT Configuration Settings**

| Power Interface Mode #          | EUT Configurations Mode # | EUT Operation Mode # |
|---------------------------------|---------------------------|----------------------|
| 1                               | 2 & 3                     | 1                    |
| Supplementary information: None |                           |                      |

**Table 21 Bandedge CONDUCTED EMISSIONS Test Equipment**

| Test Equipment Used   |                 |       |            |
|-----------------------|-----------------|-------|------------|
| Description           | Manufacturer    | Model | Identifier |
| EMI Test Receiver     | Rohde & Schwarz | ESU   | EMC4323    |
| Cable with Attenuator | Pasternack      | 10dB  | none       |



**Table 22 Bandedge RADIATED EMISSIONS Test Equipment**

| Test Equipment Used |                 |          |            |
|---------------------|-----------------|----------|------------|
| Description         | Manufacturer    | Model    | Identifier |
| EMI Test Receiver   | Rohde & Schwarz | ESU      | EMC4323    |
| Bicon Antenna       | Chase           | VBA6106A | EMC4078    |
| Log-P Antenna       | Chase           | UPA6109  | EMC4313    |
| Spectrum Analyzer   | Rhode & Schwarz | FSEK     | EMC4182    |
| Antenna Array       | UL              | BOMS     | EMC4276    |

**Figure 18 Test setup for Band Edge Compliance – Conducted**



**Figure 19 Test setup for Band Edge Compliance – Radiated**

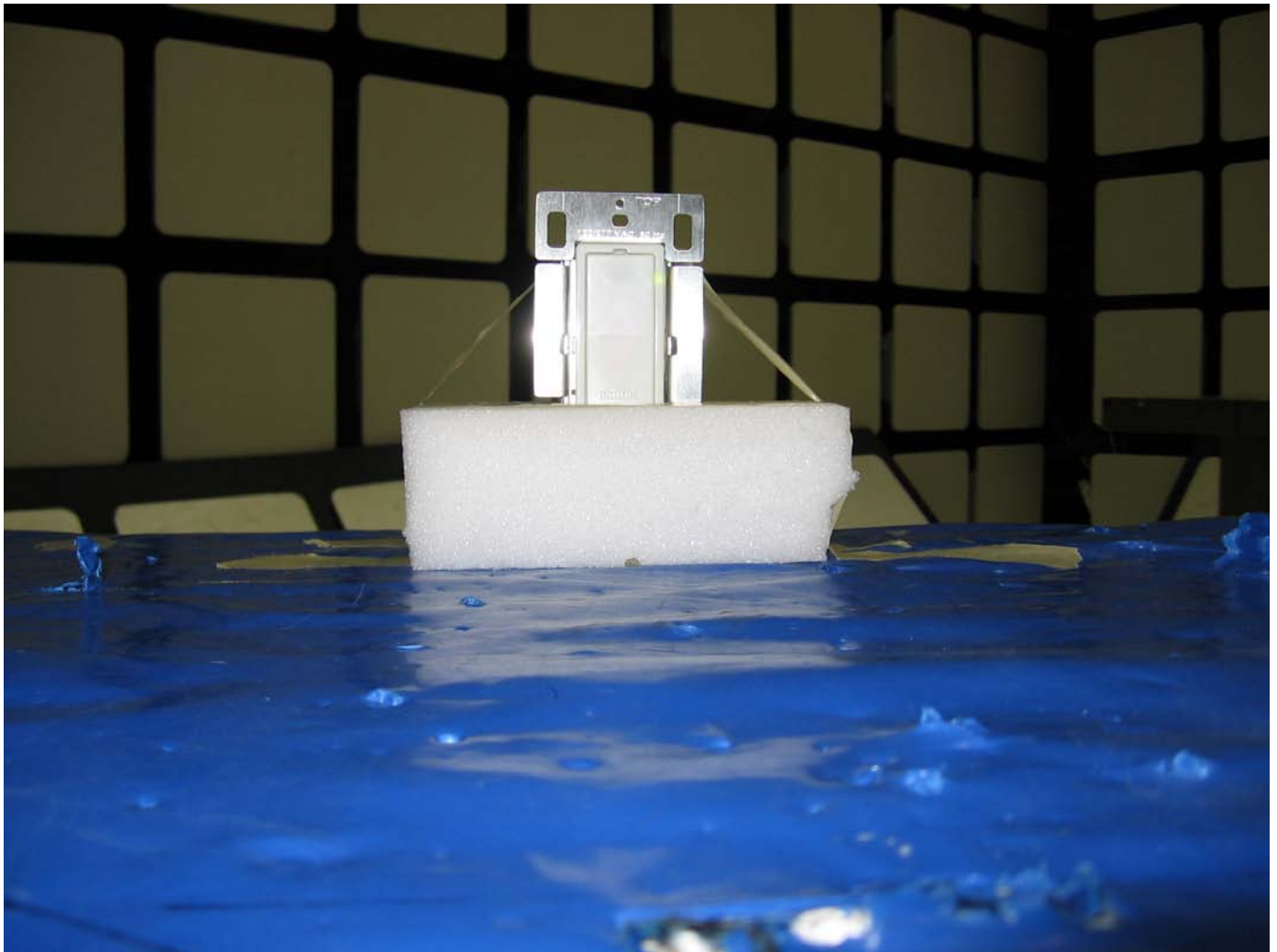


Figure 20 Antenna Conducted Band Edge Compliance Graph

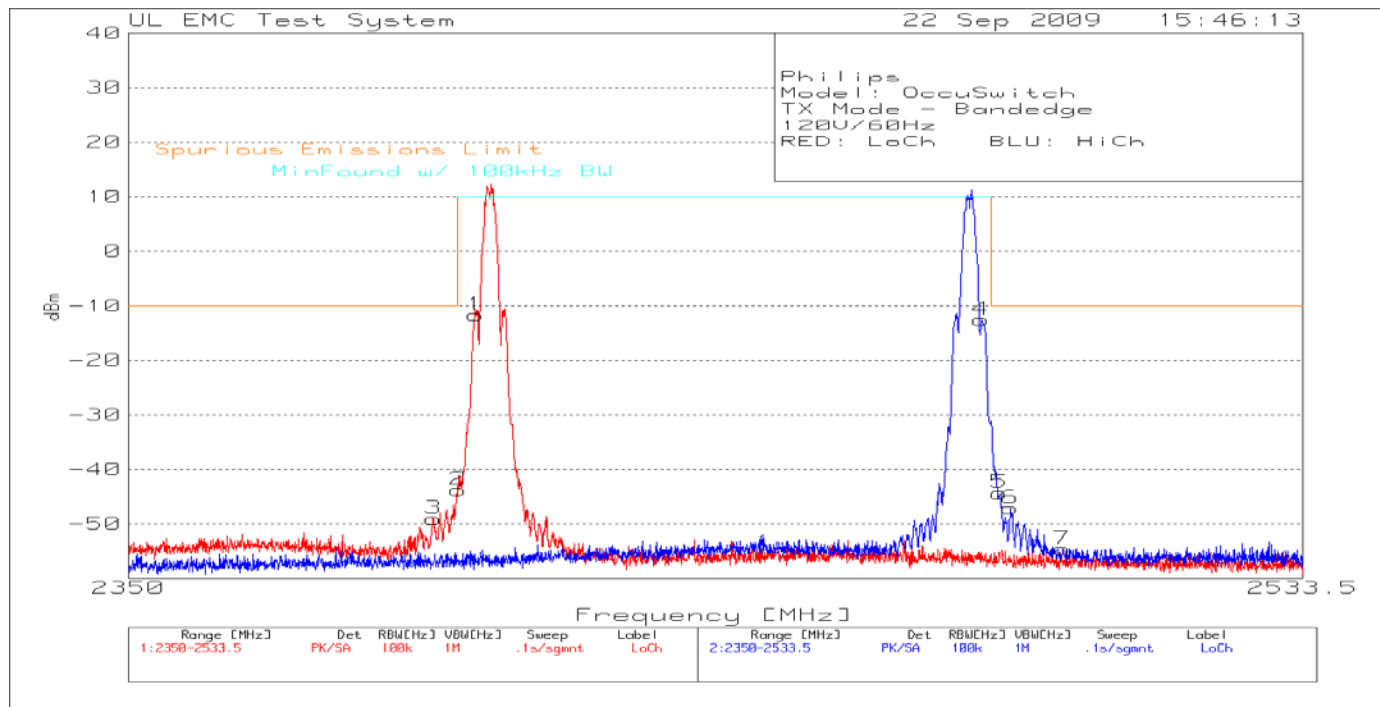


Table 23 Antenna Conducted Band Edge Compliance Data Points

Philips  
Model: OccuSwitch  
TX Mode - Bandedge  
120V/60Hz  
RED: LoCh BLU: HiCh

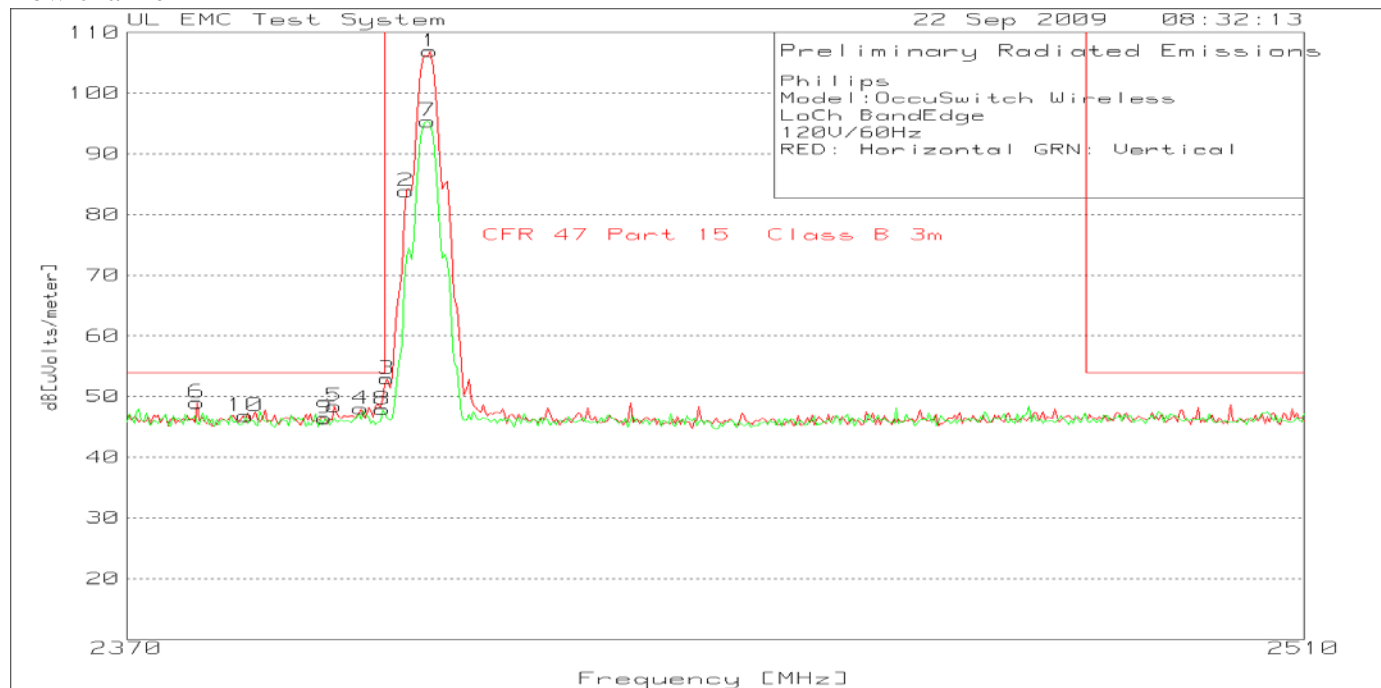
| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dBm | Limit 2 | Margin 2 [dB] | Limit 3 | Margin 3 [dB] |
|---------------|----------------------|------------------------|---------------|-----------------------|------------------------|-----------|---------|---------------|---------|---------------|
| 1             | 2402.813             | 84.98                  | pk            | 10.4                  | -107                   | -11.62    | 10      | -21.62        | 10      | -21.62        |
| 2             | 2400.123             | 52.89                  | pk            | 10.4                  | -107                   | -43.71    | 10      | -53.71        | 10      | -53.71        |
| 3             | 2396.333             | 47.53                  | pk            | 10.4                  | -107                   | -49.07    | -10     | -39.07        | 0       | -49.07        |
| 4             | 2481.971             | 83.96                  | pk            | 10.5                  | -107                   | -12.54    | 10      | -22.54        | 10      | -22.54        |
| 5             | 2484.783             | 52.16                  | pk            | 10.5                  | -107                   | -44.34    | -10     | -34.34        | 0       | -44.34        |
| 6             | 2486.616             | 49.38                  | pk            | 10.5                  | -107                   | -47.12    | -10     | -37.12        | 0       | -47.12        |
| 7             | 2494.868             | 41.92                  | pk            | 10.5                  | -107                   | -54.58    | -10     | -44.58        | 0       | -54.58        |

LIMIT 2: Spurious Emissions Limit  
LIMIT 3: MinFound w/ 100kHz BW

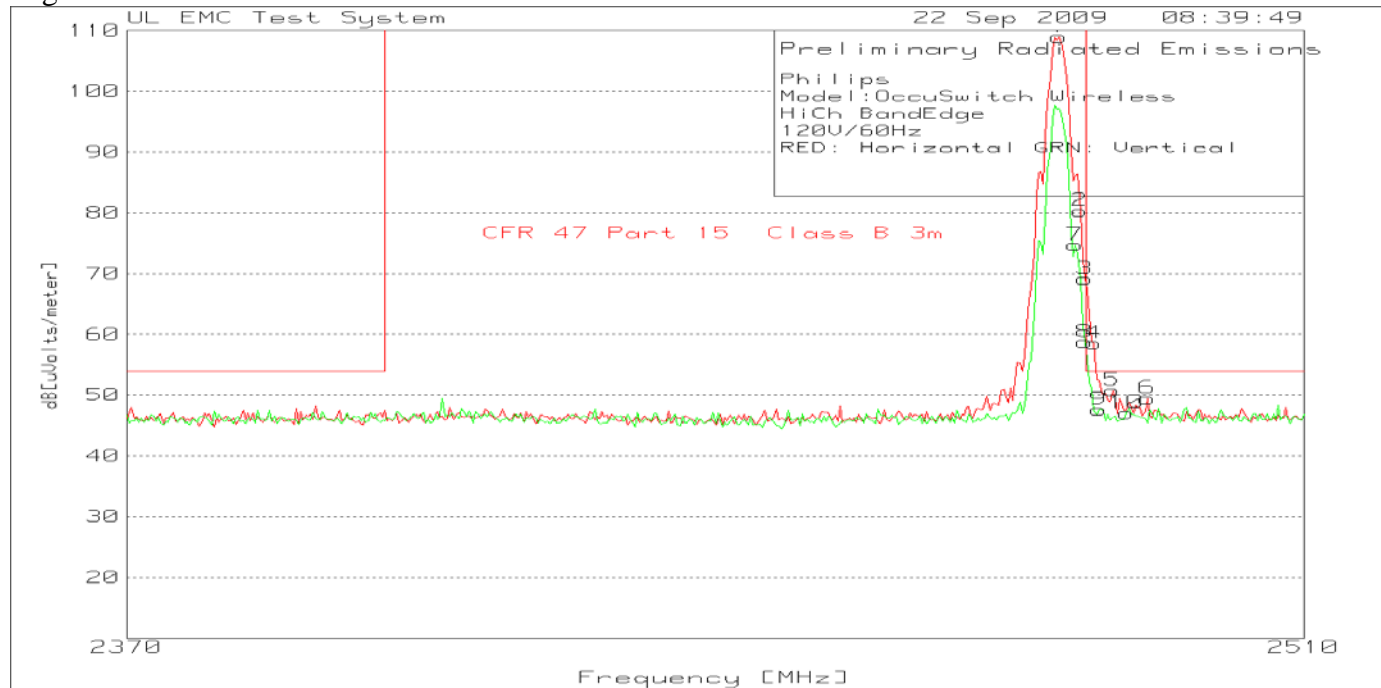
PK - Peak detector

**Figure 21 Radiated Band Edge Compliance Graph**

**Low channel**



**High Channel**



**Table 24 Radiated Band Edge Compliance Data Points**

### Low Channel

Philips  
 Model:OccuSwitch Wireless  
 LoCh BandEdge  
 120V/60Hz  
 RED: Horizontal GRN: Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uV/m] | Limit 1 | Margin 1[dB] | Height [cm] | Polarity |
|---------------|----------------------|------------------------|---------------|-----------------------|------------------------|----------------|---------|--------------|-------------|----------|
| 1             | 2405.351             | 80.67                  | pk            | 4.42                  | 21.8                   | 106.89         | X       | X            | 100         | Horz     |
| 2             | 2402.545             | 57.8                   | pk            | 4.32                  | 21.8                   | 83.92          | X       | X            | 100         | Horz     |
| 3             | 2400.301             | 26.89                  | pk            | 4.26                  | 21.8                   | 52.95          | X       | X            | 150         | Horz     |
| 4             | 2397.214             | 22                     | pk            | 4.2                   | 21.8                   | 48             | 54      | -6           | 100         | Horz     |
| 5             | 2394.128             | 22.51                  | pk            | 4.14                  | 21.8                   | 48.45          | 54      | -5.55        | 100         | Horz     |
| 6             | 2378.136             | 23.48                  | pk            | 3.72                  | 21.8                   | 49             | 54      | -5           | 150         | Horz     |
| 7             | 2405.07              | 69.22                  | pk            | 4.41                  | 21.8                   | 95.43          | X       | X            | 100         | Vert     |
| 8             | 2399.739             | 21.85                  | pk            | 4.24                  | 21.8                   | 47.89          | 54      | -6.11        | 100         | Vert     |
| 9             | 2393.006             | 20.54                  | pk            | 4.11                  | 21.8                   | 46.45          | 54      | -7.55        | 149         | Vert     |
| 10            | 2383.747             | 21.21                  | pk            | 3.8                   | 21.8                   | 46.81          | 54      | -7.19        | 149         | Vert     |

Above table is a list of markers from trace data - no measurements are required.

LIMIT 1: CFR 47 Part 15 Class B 3m

pk - Peak detector

### High Channel

Philips  
 Model:OccuSwitch Wireless  
 HiCh BandEdge  
 120V/60Hz  
 RED: Horizontal GRN: Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uV/m] | Limit 1 | Margin 1[dB] | Height [cm] | Polarity |
|---------------|----------------------|------------------------|---------------|-----------------------|------------------------|----------------|---------|--------------|-------------|----------|
| 1             | 2480.261             | 82.86                  | pk            | 4.1                   | 22                     | 108.96         | X       | X            | 100         | Horz     |
| 2             | 2482.786             | 54.29                  | pk            | 4.05                  | 22                     | 80.34          | X       | X            | 100         | Horz     |
| 3             | 2483.347             | 42.98                  | pk            | 4.04                  | 22.1                   | 69.12          | X       | X            | 100         | Horz     |
| 4             | 2484.469             | 32.41                  | pk            | 4.04                  | 22.1                   | 58.55          | 54      | 4.55         | 100         | Horz     |
| 5             | 2486.713             | 24.62                  | pk            | 4.04                  | 22.1                   | 50.76          | 54      | -3.24        | 100         | Horz     |
| 6             | 2490.922             | 23.31                  | pk            | 4.07                  | 22.1                   | 49.48          | 54      | -4.52        | 100         | Horz     |
| 7             | 2482.224             | 48.67                  | pk            | 4.06                  | 22                     | 74.73          | X       | X            | 101         | Vert     |
| 8             | 2483.347             | 32.6                   | pk            | 4.04                  | 22.1                   | 58.74          | X       | X            | 101         | Vert     |
| 9             | 2485.03              | 21.47                  | pk            | 4.03                  | 22.1                   | 47.6           | 54      | -6.4         | 101         | Vert     |
| 10            | 2488.397             | 20.89                  | pk            | 4.06                  | 22.1                   | 47.05          | 54      | -6.95        | 101         | Vert     |

Above table is a list of markers from the trace data - see measurements below.

LIMIT 1: CFR 47 Part 15 Class B 3m

pk - Peak detector

Job #: 1001132501    File #: MC16272    Project #: 09CA32738A  
 Model Number: LRA1720  
 Client Name: Philips Lighting Electronics N. A.

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## High Channel Bandedge Compliance Measurements.

Philips  
 Model:OccuSwitch Wireless  
 HiCh BandEdge  
 120V/60Hz  
 RED: Horizontal GRN: Vertical

| Test Frequency [MHz]   | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uV/m] | Limit 1 | Margin 1[dB] | Azimuth [deg] | Height [cm] | Polarity |
|--|------------------------|---------------|-----------------------|------------------------|----------------|---------|--------------|---------------|-------------|----------|
| 2479.4709  | 87.75                  | pk            | 4.12                  | 22                     | 113.87         | X       | X            | 11            | 120         | Horz     |
| 2483.509   | 57.24                  | pk            | 4.04                  | 22.1                   | 83.38          | 74      | 9.38         | 11            | 120         | Horz     |
| 2483.509   | 50.78                  | av            | 4.04                  | 22.1                   | 76.92          | 54      | 22.92        | 11            | 120         | Horz     |
| Marker-Delta measurement below used to show compliance.  |                        |               |                       |                        |                |         |              |               |             |          |
| <b>Fund with RBW=VBW=1MHz</b>  |                        |               |                       |                        |                |         |              |               |             |          |
| 2479.4208  | 87.8                   | pk            | 4.12                  | 22                     | 113.92         | X       | X            | 11            | 120         | Horz     |
| <b>Fund with RBW=1MHz VBW=10Hz</b>   |                        |               |                       |                        |                |         |              |               |             |          |
| 2480.0421  | 85.49                  | av            | 4.11                  | 22                     | 111.6          | X       | X            | 11            | 120         | Horz     |
| <b>Fund with 50kHz RBW</b>   |                        |               |                       |                        |                |         |              |               |             |          |
| 2479.7515  | 83.25                  | pk            | 4.11                  | 22                     | 109.36         | X       | X            | 11            | 120         | Horz     |
| <b>Bandedge with 50kHz RBW</b>   |                        |               |                       |                        |                |         |              |               |             |          |
| 2483.509   | 40.12                  | pk            | 4.04                  | 22.1                   | 66.26          | 54      | 12.26        | 11            | 120         | Horz     |
| Delta between fundamental and band edge: 43.1dB  |                        |               |                       |                        |                |         |              |               |             |          |
| Peak Level for Bandedge based on Marker Delta Measurements: 70.82dBuV/m  |                        |               |                       |                        |                |         |              |               |             |          |
| AV Level for Bandedge based on Marker Delta Measurements: 68.5dBuV/m (must use Duty Cycle Factor for compliance) |                        |               |                       |                        |                |         |              |               |             |          |

LIMIT 1: CFR 47 Part 15 Class B 3m  
 pk - Peak detector  
 av - Average detector

Philips  
 Model:OccuSwitch Wireless  
 HiCh BandEdge  
 120V/60Hz  
 RED: Horizontal GRN: Vertical

| Test Frequency [MHz]   | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uV/m] | Limit 1 | Margin 1[dB] | Azimuth [deg] | Height [cm] | Polarity |
|--|------------------------|---------------|-----------------------|------------------------|----------------|---------|--------------|---------------|-------------|----------|
| 2480.523   | 75.2                   | pk            | 4.09                  | 22                     | 101.29         | X       | X            | 127           | 102         | Vert     |
| 2480.0521  | 73.03                  | av            | 4.11                  | 22                     | 99.14          | X       | X            | 127           | 102         | Vert     |
| 2483.509   | 45.26                  | pk            | 4.04                  | 22.1                   | 71.4           | 74      | -2.6         | 127           | 102         | Vert     |
| 2483.509   | 38.58                  | av            | 4.04                  | 22.1                   | 64.72          | 54      | 10.72        | 127           | 102         | Vert     |
| The above average measurement can be corrected by using the worst case captured DC factor. The DC factor is -21.75dB and once applied the margin is -11.03dB |                        |               |                       |                        |                |         |              |               |             |          |

LIMIT 1: CFR 47 Part 15 Class B 3m  
 pk - Peak detector  
 av - Average detector

#### 4.5 Test Conditions and Results – Duty Cycle Correction

|                  |  |  |  |
|------------------|--|--|--|
| Test Description | Unless otherwise specified, e.g. Section 15.255(b), when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification. |  |  |
| Basic Standard   | 47 CFR Part 15.35(c)<br>RSS-Gen 4.5  |  |  |

**Table 25 Duty Cycle Configuration Settings**

| Power Interface Mode #   | EUT Configurations Mode # | EUT Operation Mode # |
|--|---------------------------|----------------------|
| 1  | 3                         | 3                    |
| Supplementary information: Duty cycle also measured/calculated for use in radiated spurious measurements. The EUT is using digital modulation technique. However, the TX time is very short thus the Duty cycle correction can be used. Multiple attempts were made to capture the Duty Cycle and worst case data is presented in this report. |                           |                      |

**Table 26 Duty Cycle Test Equipment**

| Test Equipment Used   |                 |           |            |
|-----------------------|-----------------|-----------|------------|
| Description           | Manufacturer    | Model     | Identifier |
| EMI Test Receiver     | Rohde & Schwarz | ESU       | EMC4323    |
| Cable with Attenuator | Pasternack      | 10dB      | none       |
| RF Detector           | Alan            | 9128/50D1 | none       |
| Digital Oscilloscope  | Agilent         | 54845A    | EMC4207    |



**Table 27 Duty Cycle Results**

| Mode  | V(max-min) | V(avg)   | Duty Cycle Correction (dB)<br>$20 \times \log\left(\frac{V(avg)}{V(max-min)}\right)$ |
|---|------------|----------|--|
| TX Hopping Low Channel  | 1.839      | 0.150306 | -21.75dB   |
| Supplementary information: Because of the nature of how the switch communicates with another switch or a sensor multiple attempts were made to capture the worst case duty cycle. Since its not possible to predict the area where the worst case duty cycle will be present, using a spectrum analyzer in zero span with 100mS sweep was not practical. Instead, a digital storage oscilloscope with RF detector was used. The oscilloscope would not allow for multiple markers to be placed on the trace therefore the voltage (max-min) and voltage average values were used. |            |          |  |

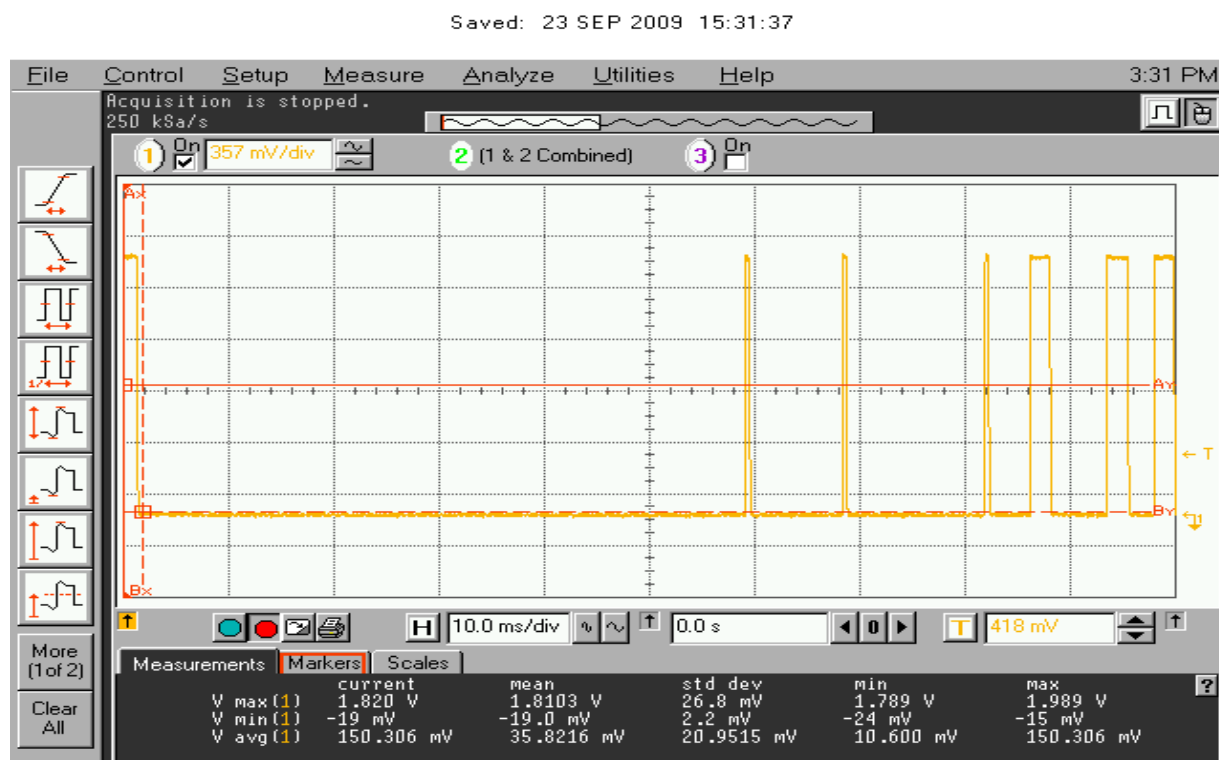
**Test Setup for Duty Cycle**



Representative Photo Only – the EUT was connected to oscilloscope with RF detector in place of the attenuator.



Figure 22 Dwell Time Graphs



|             |  |            |            |            |            |            |
|-------------|--|------------|------------|------------|------------|------------|
| Acquisition | Sampling mode real time Configuration 8GSa/s<br>Memory depth manual Memory depth 65536pts<br>Sampling rate manual Sampling rate 250 kSa/s<br>Averaging off<br>9-bit B/W Filter on Interpolation on |            |            |            |            |            |
| Channel 1   | Scale 357 mV/div Offset 857 mV Coupling DC Impedance 1M Ohm<br>Attenuation 1.000 : 1 Atten units ratio Skew 0.0 s<br>Ext adapter None Ext coupler None<br>Ext gain 1.00E+00 Ext offset 0.0E+00     |            |            |            |            |            |
| Time base   | Scale 10.0 ms/div Position 0.0 s Reference left  |            |            |            |            |            |
| Trigger     | Mode edge Sweep triggered<br>Hysteresis normal Holdoff time 60 ns Coupling DC<br>Source channel 1 Trigger level 418 mV Slope rising  |            |            |            |            |            |
| Measure     |  | current    | mean       | std dev    | min        | max        |
|             | V max (1)  | 1.820 V    | 1.8103 V   | 26.8 mV    | 1.789 V    | 1.989 V    |
|             | V min (1)  | -19 mV     | -19.0 mV   | 2.2 mV     | -24 mV     | -15 mV     |
|             | V avg (1)  | 150.306 mV | 35.8216 mV | 20.9515 mV | 10.600 mV  | 150.306 mV |
| Marker      |  | current    | mean       |            | X          | Y          |
|             | V max (1)  | 1.820 V    | 1.8103 V   | A---(1) =  | 0.0 s      | 904 mV     |
|             | V min (1)  | -19 mV     | -19.0 mV   | B---(1) =  | 1.81818 ms | 18 mV      |
|             | V avg (1)  | 150.306 mV | 35.8216 mV | Δ =        | 1.81818 ms | -886 mV    |
|             |  |            |            | 1/ΔX =     | 550.000 Hz |            |

#### 4.6 Test Conditions and Results – 6dB BANDWIDTH

|                  |   |  |  |
|------------------|---|--|--|
| Test Description | Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz. |  |  |
| Basic Standard   | 47 CFR Part 15.247(a)(2)<br>RSS-210, A8.2(a)  |  |  |

**Table 28 6dB Bandwidth Configuration Settings**

| Power Interface Mode #          | EUT Configurations Mode # | EUT Operation Mode # |
|---------------------------------|---------------------------|----------------------|
| 1                               | 3                         | 1                    |
| Supplementary information: None |                           |                      |

**Table 29 6dB Bandwidth Test Equipment**

| Test Equipment Used   |                 |       |            |
|-----------------------|-----------------|-------|------------|
| Description           | Manufacturer    | Model | Identifier |
| EMI Test Receiver     | Rohde & Schwarz | ESU   | EMC4323    |
| Cable with Attenuator | Pasternack      | 10dB  | none       |

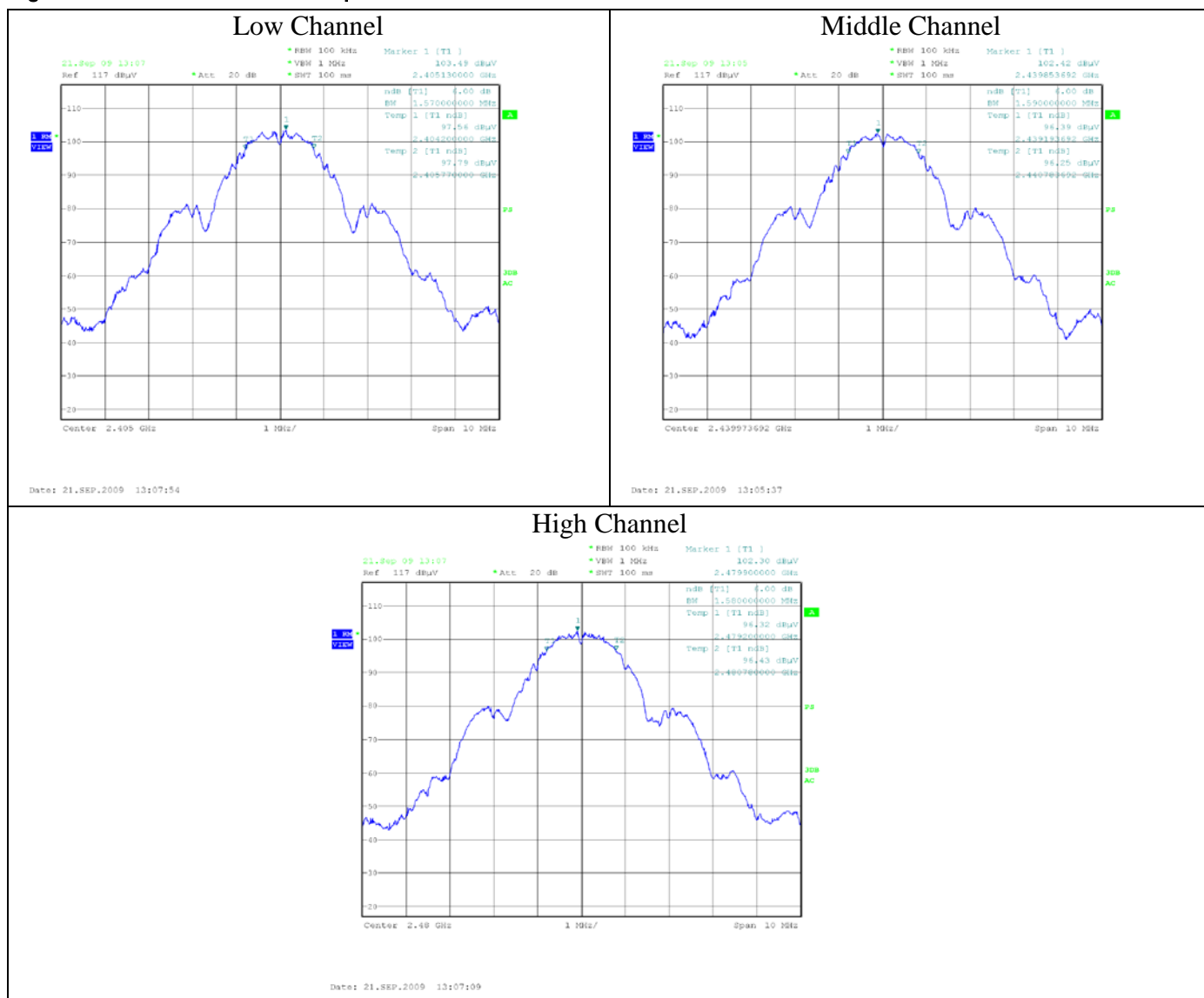
**Table 30 20dB Bandwidth Results**

| Mode | Channel | 20dB Bandwidth |
|------|---------|----------------|
| TX   | Low     | 1.570MHz       |
|      | Middle  | 1.590MHz       |
|      | High    | 1.580MHz       |

**Test Setup for 6dB Bandwidth**



Figure 23 20dB Bandwidth Graphs



#### 4.7 Test Conditions and Results – MAXIMUM PEAK OUTPUT POWER

|  |  |  |                   |
|--|--|--|-------------------|
| Test Description   | For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. |  |                   |
| Basic Standard   |  | 47 CFR Part 15.247(b)(3)<br>RSS-210, A8.4(4) |                   |
|  | Frequency range  |  | Measurement Point |
| Fully configured sample scanned over the following frequency range | 2400MHz –2483.5MHz   |  | Antenna Conducted |
| Limits   |  |  |                   |
| Frequency (MHz)  | Limit mW   |  |                   |
|  | Peak   |  |                   |
| 2400 – 2483.5  | 1,000  |  |                   |
| Supplementary information: None                                    |  |  |                   |

**Table 31 Maximum Peak Output Power EUT Configuration Settings**

| Power Interface Mode #          | EUT Configurations Mode # | EUT Operation Mode # |
|---------------------------------|---------------------------|----------------------|
| 1                               | 3                         | 1                    |
| Supplementary information: None |                           |                      |

**Table 32 Maximum Peak Output Power Test Equipment**

| Test Equipment Used   |                 |       |            |
|-----------------------|-----------------|-------|------------|
| Description           | Manufacturer    | Model | Identifier |
| EMI Test Receiver     | Rohde & Schwarz | ESU   | EMC4323    |
| Cable with Attenuator | Pasternack      | 10dB  | none       |

**Table 33 Maximum Peak Output Power Results**

| Channel        | Declared Antenna Gain (dBi) | Limit (dBm) | Power dBm | Power W |
|----------------|-----------------------------|-------------|-----------|---------|
| Low Channel    | 5.38                        | 30          | 15.74     | 0.0375  |
| Middle Channel | 4.33                        | 30          | 15.06     | 0.0321  |
| High Channel   | 3.93                        | 30          | 14.76     | 0.0299  |

**Figure 24 Test setup for Maximum Peak Output Power**



Figure 25 Maximum Peak Output Power Graph

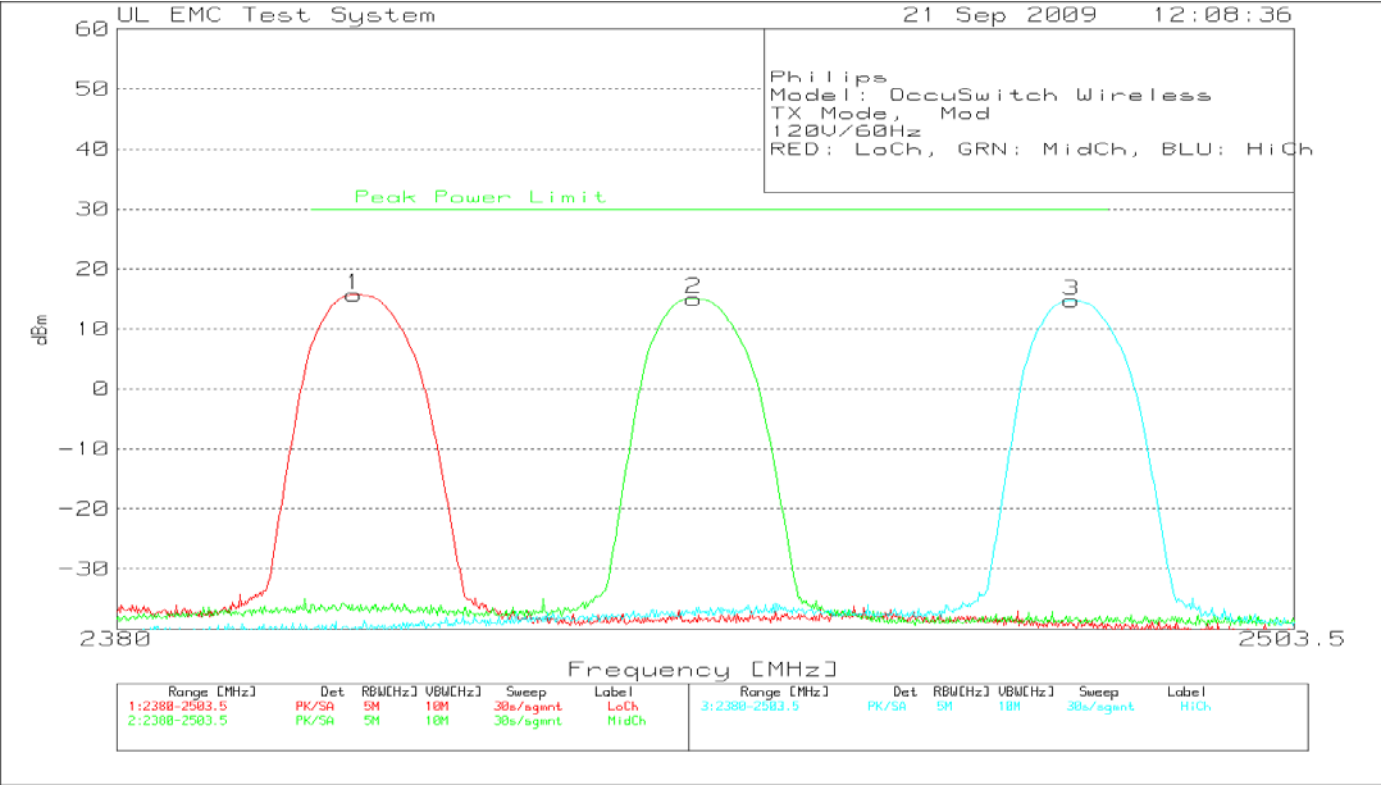


Table 34 Maximum Peak Output Power Emissions Data Points

Philips  
Model: OccuSwitch Wireless  
TX Mode, Mod  
120V/60Hz  
RED: LoCh, GRN: MidCh, BLU: HiCh

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dBm | Limit 1 | Margin 1[dB] |
|---------------|----------------------|------------------------|---------------|-----------------------|------------------------|-----------|---------|--------------|
| 1             | 2404.453             | 112.34                 | pk            | 10.4                  | -107                   | 15.74     | 30      | -14.26       |
| 2             | 2439.836             | 111.76                 | pk            | 10.3                  | -107                   | 15.06     | 30      | -14.94       |
| 3             | 2479.726             | 111.26                 | pk            | 10.5                  | -107                   | 14.76     | 30      | -15.24       |

LIMIT 1: Peak Power Limit  
PK - Peak detector

#### 4.8 Test Conditions and Results – POWER SPECTRAL DENSITY

|  |   |                   |  |
|--|---|-------------------|--|
| Test Description   | For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. |                   |  |
| Basic Standard   | 47 CFR Part 15.247(e)<br>RSS-210, A8.2(b)   |                   |  |
|  | Frequency range   | Measurement Point |  |
| Fully configured sample scanned over the following frequency range | 2400MHz –2483.5MHz  | Antenna Conducted |  |
| Limits   |   |                   |  |
| Frequency (MHz)  | Limit mW  |                   |  |
|  | Peak  |                   |  |
| 2400 – 2483.5  | 8dBm (0.00631mW)  |                   |  |
| Supplementary information: None                                    |   |                   |  |

**Table 35 Power Spectral Density EUT Configuration Settings**

| Power Interface Mode #          | EUT Configurations Mode # | EUT Operation Mode # |
|---------------------------------|---------------------------|----------------------|
| 1                               | 3                         | 1                    |
| Supplementary information: None |                           |                      |

**Table 36 Power Spectral Density Test Equipment**

| Test Equipment Used   |                 |       |            |
|-----------------------|-----------------|-------|------------|
| Description           | Manufacturer    | Model | Identifier |
| EMI Test Receiver     | Rohde & Schwarz | ESU   | EMC4323    |
| Cable with Attenuator | Pasternack      | 10dB  | none       |

**Table 37 Power Spectral Density Power Results**

| Channel        | Limit (dBm) | Power Density dBm |
|----------------|-------------|-------------------|
| Low Channel    | 8           | 1.01              |
| Middle Channel | 8           | 0.80              |
| High Channel   | 8           | 0.04              |



**Figure 26 Test setup for Power Spectral Density**



Figure 27 Power Spectral Density Graph – Low Channel

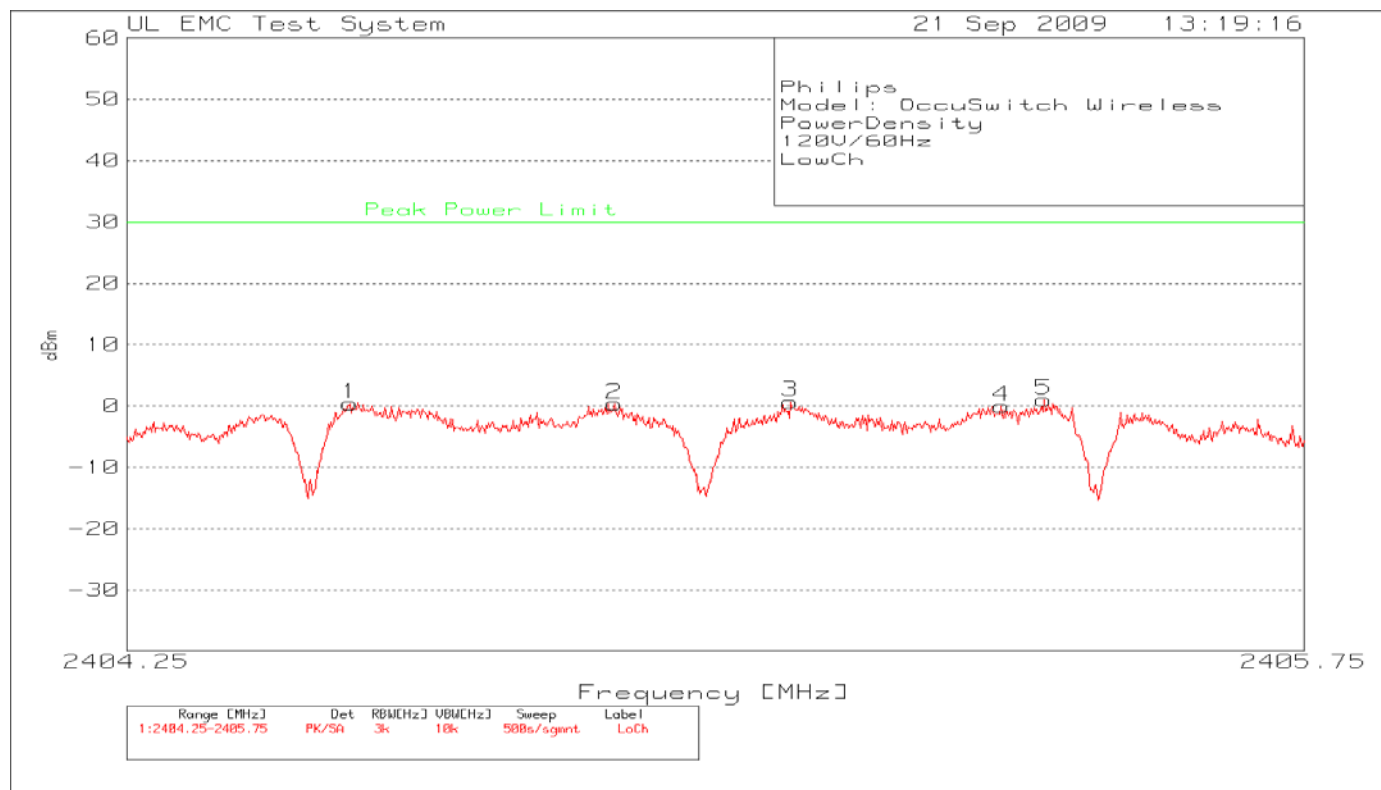


Table 38 Power Spectral Density Data Points – Low Channel

Philips  
Model: OccuSwitch Wireless  
PowerDensity  
120V/60Hz  
LowCh

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dBm |
|---------------|----------------------|------------------------|---------------|-----------------------|------------------------|-----------|
| 1             | 2404.535             | 96.99                  | pk            | 10.4                  | -107                   | .39       |
| 2             | 2404.871             | 96.96                  | pk            | 10.4                  | -107                   | .36       |
| 3             | 2405.096             | 97.28                  | pk            | 10.4                  | -107                   | .68       |
| 4             | 2405.365             | 96.56                  | pk            | 10.4                  | -107                   | -.04      |
| 5             | 2405.419             | 97.61                  | pk            | 10.4                  | -107                   | 1.01      |

PK - Peak detector

Figure 28 Power Spectral Density Graph – Middle Channel

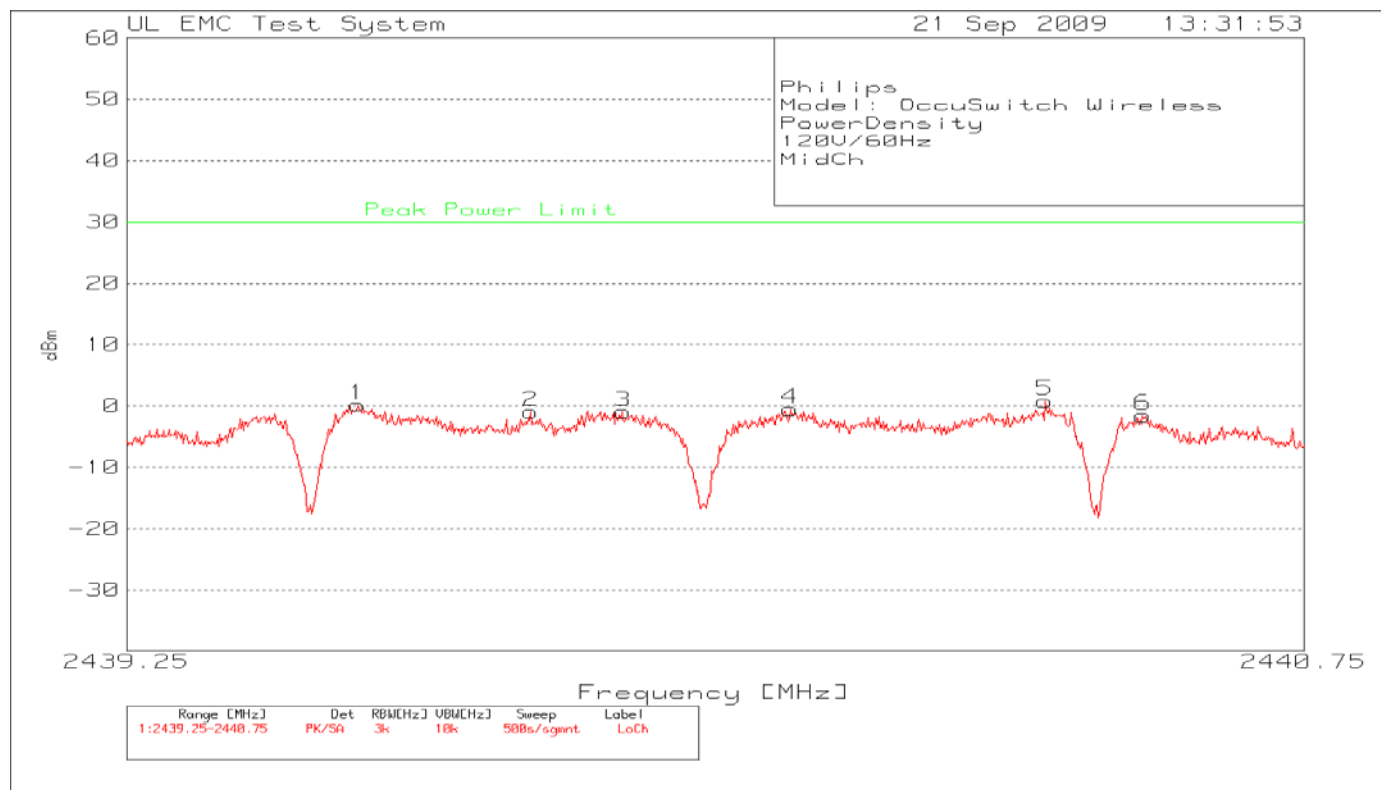


Table 39 Power Spectral Density Data Points – Middle Channel

Philips  
Model: OccuSwitch Wireless  
PowerDensity  
120V/60Hz  
MidCh

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dBm |
|---------------|----------------------|------------------------|---------------|-----------------------|------------------------|-----------|
| 1             | 2439.544             | 96.91                  | pk            | 10.3                  | -107                   | .21       |
| 2             | 2439.765             | 95.79                  | pk            | 10.3                  | -107                   | -.91      |
| 3             | 2439.882             | 95.76                  | pk            | 10.3                  | -107                   | -.94      |
| 4             | 2440.096             | 96.22                  | pk            | 10.3                  | -107                   | -.48      |
| 5             | 2440.42              | 97.5                   | pk            | 10.3                  | -107                   | .8        |
| 6             | 2440.545             | 95.18                  | pk            | 10.3                  | -107                   | -1.52     |

PK - Peak detector

Figure 29 Power Spectral Density Graph – High Channel

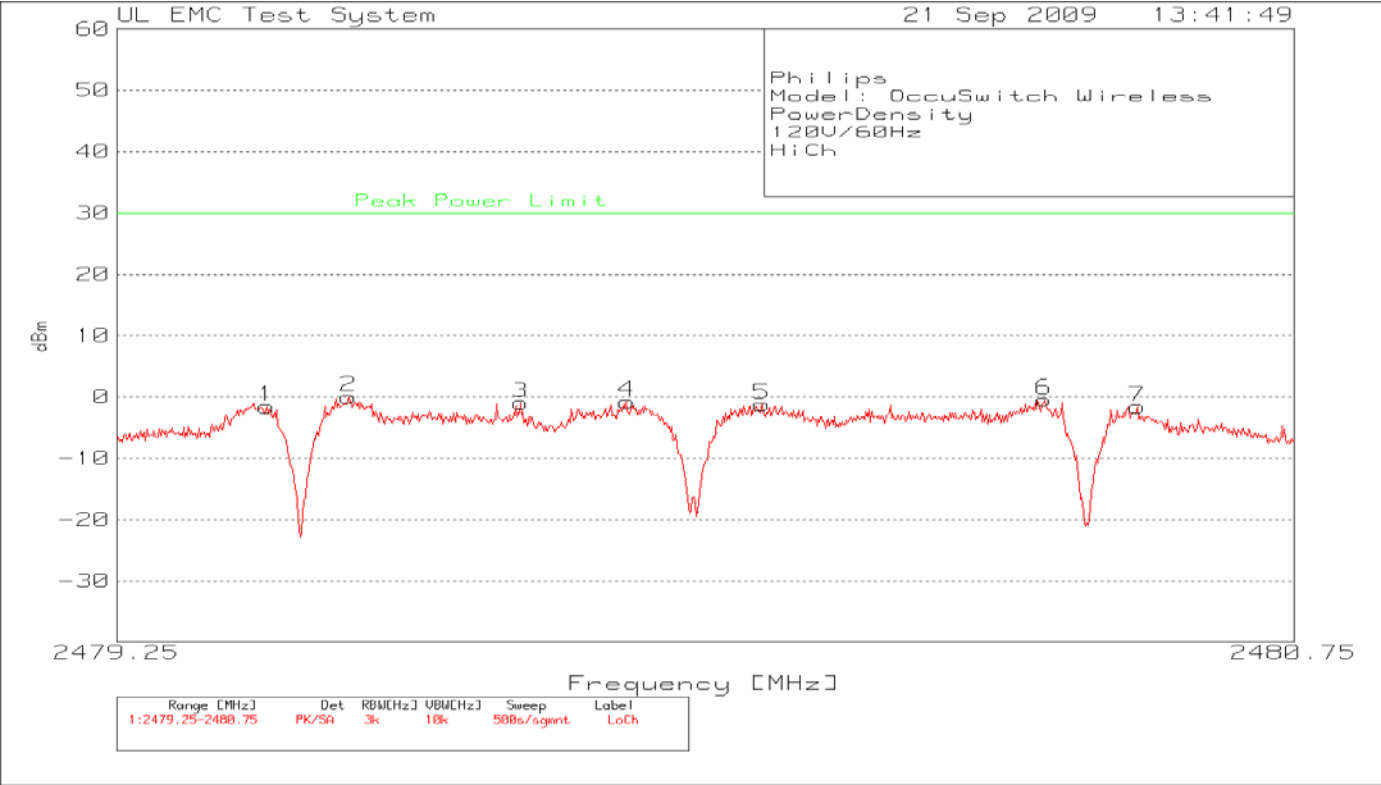


Table 40 Power Spectral Density Data Points – High Channel

Philips  
Model: OccuSwitch Wireless  
PowerDensity  
120V/60Hz  
HiCh

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dBm |
|---------------|----------------------|------------------------|---------------|-----------------------|------------------------|-----------|
| 1             | 2479.441             | 94.98                  | pk            | 10.5                  | -107                   | -1.52     |
| 2             | 2479.546             | 96.54                  | pk            | 10.5                  | -107                   | .04       |
| 3             | 2479.765             | 95.56                  | pk            | 10.5                  | -107                   | -.94      |
| 4             | 2479.9               | 95.75                  | pk            | 10.5                  | -107                   | -.75      |
| 5             | 2480.072             | 95.28                  | pk            | 10.5                  | -107                   | -1.22     |
| 6             | 2480.432             | 96.05                  | pk            | 10.5                  | -107                   | -.45      |
| 7             | 2480.551             | 94.91                  | pk            | 10.5                  | -107                   | -1.59     |

PK - Peak detector

#### 4.9 Test Conditions and Results – 99% Power BANDWIDTH

|                  |  |  |
|------------------|--|--|
| Test Description | When an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured. |  |
| Basic Standard   | RSS-Gen, 4.6.1   |  |

**Table 41 99% Power Bandwidth Configuration Settings**

| Power Interface Mode #          | EUT Configurations Mode # | EUT Operation Mode # |
|---------------------------------|---------------------------|----------------------|
| 1                               | 3                         | 1                    |
| Supplementary information: None |                           |                      |

**Table 42 99% Power Bandwidth Test Equipment**

| Test Equipment Used   |                 |       |            |
|-----------------------|-----------------|-------|------------|
| Description           | Manufacturer    | Model | Identifier |
| EMI Test Receiver     | Rohde & Schwarz | ESU   | EMC4323    |
| Cable with Attenuator | Pasternack      | 10dB  | none       |

**Table 43 99% Power Bandwidth Results**

| Mode | Channel | 99% Power Bandwidth |
|------|---------|---------------------|
| TX   | Low     | 2.680MHz            |
|      | Middle  | 2.680MHz            |
|      | High    | 2.720MHz            |

**Test Setup for 99% Power Bandwidth**





## **5.0 IMMUNITY TEST RESULTS**

Immunity testing was non conducted nor is required by the standard.



## Appendix A

### Accreditations and Authorizations



NVLAP Lab code: 100414-0

NVLAP: The National Institute of Standards and Technology (NIST) administers the National Voluntary Laboratory Accreditation Program (NVLAP). NVLAP is comprised of laboratory accreditation programs (LAPs) which are established on the basis of requests and demonstrated need. Each LAP includes specific calibration and/or test standards and related methods and protocols assembled to satisfy the unique needs for accreditation in a field of testing or calibration. NVLAP accredits public and private laboratories based on evaluation of their technical qualifications and competence to carry out specific calibrations or tests. Accreditation criteria are established in accordance with the U.S. Code of Federal Regulations (CFR, Title 15, Part 285), NVLAP Procedures and General Requirements, and encompass the requirements of ISO/IEC 17025. For a full scope listing see <http://ts.nist.gov/ts/htdocs/210/214/scopes/1004140.htm>



FCC: Details of the measurement facilities used for these tests have been filed with the Federal Communications Commission's Laboratory in Columbia, Maryland (Ref. No. 91044).



Industry Canada    Industrie Canada

Industry of Canada: Accredited by Industry Canada for performance of radiated measurements. Our test site complies with RSP 100, Issue 7, Section 3.3. File #: IC 2180



VCCI: Accepted as an Associate Member to the VCCI. The measurement facilities detailed in this test report have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. Registration Nos.: Radiated Emissions R-621, Conducted Emissions C-642.



ICASA: ICASA (Independent Communications Authority of South Africa) has appointed UL as a Designated Test Laboratory to test Telecommunications equipment for type approval in compliance with CISPR 22 to assist in fulfilling its mandate under section 54(1) of the Telecommunications Act, 1996 (Act 103 of 1996).



NIST/CAB: Validated by the European Commission as a U.S. Conformity Assessment Body (CAB) of the U.S.-EU Mutual Recognition Agreement (MRA) for the Electromagnetic Compatibility - Council Directive 89/336/EEC, Article 10 (2). Also validated for the Telecommunication Equipment-Council Directive 99/5/EC, Annex III and IV, Identification Number: 0983.

NIST/CAB: Provisioned to act as a U.S. Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the Asia Pacific Economic Cooperation (APEC) MRA between the American Institute in Taiwan (AIT) and the United States. Our laboratory is considered qualified to test equipment subject to the applicable EMC regulations of the Chinese Taipei Bureau of Standards, Metrology and Inspection (BSMI) which require testing to CNS 13438 (CISPR 22).

NIST/CAB: Recognized by the Infocomm Development Authority of Singapore (IDA) under the Asia Pacific Economic Cooperation Mutual Recognition Agreement (APEC MRA). Our laboratory is provisionally designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC MRA. Our scope of designation includes IDA TS EMC (CISPR 22), IEC 61000-4-2, -4-3, -4-4, -4-5, and -4-6

