



FCC TEST REPORT

REPORT NO.: 070422FIA01

MODEL NO.: BM-SVC, BM-A44, BM-MIG, BM-AMP,
BM-XTC, BM-FRG, BM-VIP, BM-VPR,
BM-RAC, BM-JET, BM-UFO, BM-WiFX,
BM-1-10

RECEIVED: Apr. 10, 2007

TESTED: Apr. 10 ~ May. 29, 2007

ISSUED: May. 29, 2007

APPLICANT: Lumisource, Inc.

ADDRESS: 2950 OLD HIGGINS ROAD, ELK GROVE VIGGLE,
IL 60007, U.S.A

ISSUED BY: ADT (Shanghai) Corporation

ADDRESS: 2F, Building C, No.1618, Yishan Rd., 201103,
Shanghai, China

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ADT (Shanghai) Corporation.



V 1.0

Table of Contents

| | | |
|-------|--|----|
| 1 | CERTIFICATION | 3 |
| 2 | SUMMARY OF TEST RESULTS | 4 |
| 2.1 | MEASUREMENT UNCERTAINTY | 4 |
| 3 | GENERAL INFORMATION | 5 |
| 3.1 | GENERAL DESCRIPTION OF EUT | 5 |
| 3.2 | DESCRIPTION OF TEST MODES | 6 |
| 3.3 | GENERAL DESCRIPTION OF APPLIED STANDARDS | 8 |
| 3.4 | DESCRIPTION OF SUPPORT UNITS | 9 |
| 4 | EMISSION TEST | 10 |
| 4.1 | CONDUCTED EMISSION MEASUREMENT | 10 |
| 4.1.1 | LIMITS OF CONDUCTED EMISSION MEASUREMENT | 10 |
| 4.1.2 | TEST INSTRUMENTS | 10 |
| 4.1.3 | TEST PROCEDURE | 10 |
| 4.1.4 | TEST SETUP | 11 |
| 4.1.5 | EUT OPERATING CONDITIONS | 11 |
| 4.1.6 | TEST RESULTS | 12 |
| 4.2 | RADIATED EMISSION MEASUREMENT | 13 |
| 4.2.1 | LIMITS OF RADIATED EMISSION MEASUREMENT | 13 |
| 4.2.2 | TEST INSTRUMENTS | 14 |
| 4.2.3 | TEST PROCEDURE | 15 |
| 4.2.4 | DEVIATION FROM TEST STANDARD | 15 |
| 4.2.5 | TEST SETUP | 16 |
| 4.2.6 | EUT OPERATING CONDITIONS | 16 |
| 4.2.7 | TEST RESULTS | 17 |
| 4.3 | BAND EDGES MEASUREMENT | 20 |
| 4.3.1 | LIMITS OF BAND EDGES MEASUREMENT | 20 |
| 4.3.2 | TEST INSTRUMENTS | 20 |
| 4.3.3 | TEST PROCEDURE | 20 |
| 4.3.4 | DEVIATION FROM TEST STANDARD | 20 |
| 4.3.5 | EUT OPERATING CONDITION | 20 |
| 4.3.6 | TEST RESULTS | 21 |
| 5 | APPENDIX - INFORMATION ON THE TESTING LABORATORY | 22 |



1 CERTIFICATION

PRODUCT: Boom Chair

MODEL NO.: BM-SVC, BM-A44, BM-MIG, BM-AMP, BM-XTC, BM-FRG, BM-VIP, BM-VPR, BM-RAC, BM-JET, BM-UFO, BM-WiFX, BM-1-10

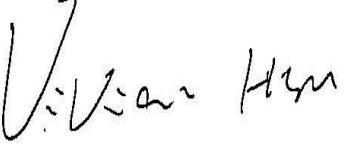
APPLICANT: Lumisource, Inc.

TESTED: Apr. 10 ~ May. 29, 2007

TEST ITEM: ENGINEERING SAMPLE

STANDARDS: 47 CFR Part 15, Subpart C (Section 15.249),
ANSI C63.4-2003

The above equipment has been tested by **ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

TECHNICAL ACCEPTANCE :  , **DATE:** MAY. 29, 2007

(Vivian Hsu)
Engineering Supervisor

APPROVED BY :  , **DATE:** MAY. 29, 2007

(Wallace Pan)
Director of Operations

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: 47 CFR Part 15, Subpart C | | | |
|---|--|--------|---|
| Standard Paragraph | Test Type | Result | Remark |
| 15.207 | Conducted Emission Test (Mode A1) | PASS | Minimum passing margin is -1.88dB at 0.310MHz |
| 15.249 | Radiated Emission Test (Mode A1, Below 1GHz) | PASS | Minimum passing margin is -1.19dB at 457.020MHz |
| | Radiated Emission Test (Mode A1, Above 1GHz) | PASS | Minimum passing margin is -3.86dB at 1371.12MHz |
| 15.249 | Band Edge Measurement | PASS | Meet the requirement of limit |

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

| Measurement | Value |
|---------------------|-------|
| Conducted emissions | 1.8dB |
| Radiated emissions | 3.5dB |

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| | |
|-------------------------------------|--|
| PRODUCT | Boom Chair |
| MODEL NO. | BM-SVC, BM-A44, BM-MIG, BM-AMP, BM-XTC, BM-FRG, BM-VIP, BM-VPR, BM-RAC, BM-JET, BM-UFO, BM-WiFX, BM-1-10 |
| POWER SUPPLY | 120Vac, 60Hz |
| POWER ADAPTER SUPPLIED | Cable out: 2m, non-shielded, non-detachable |
| MODULATION TYPE | QPSK |
| FREQUENCY RANGE OF OPERATION | 915 MHz |
| CHANNEL SEPARATION | N/A |
| NUMBER OF CHANNEL | 1 |
| ANTENNA TYPE | Soldered on PCB |
| DATA CABLE SUPPLIED | N/A |
| I/O PORTS | N/A |

NOTE: 1. There are fourteen model numbers of the EUT, the basic model number is BM-SVC, the alternate model BM-A44, BM-MIG, BM-AMP, BM-XTC, BM-FRG, BM-VIP, BM-VPR, BM-RAC, BM-JET, BM-UFO, BM-WiFX, BM-1-10 are electrically and mechanically 100% identical to the basic model, except for the model designation.

So we chosen model BM-SVC to have test and the test results are applicable to all of the model number list in the above table.

2. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

FCC ID: U7YBM-SVC



3.2 DESCRIPTION OF TEST MODES

1 channels are provided to this EUT:

| Channel | Frequency |
|---------|-----------|
| 1 | 915MHz |

Test Mode Applicability AND TESTED CHANNEL DETAIL:

| EUT configure mode | Applicable to | | | | | Description |
|--------------------------|---------------|-------|-------|-----|----|--------------------|
| | PLC | RE<1G | RE≥1G | APM | BE | |
| A1 | √ | √ | √ | - | √ | Powered by adapter |

Where PLC: Power Line Conducted Emission
 RE<1G: Radiated Emission below 1GHz
 RE≥1G: Radiated Emission above 1GHz
 APM: Antenna Port Measurement
 BE: Band Edge Measurement

Power Line Conducted Emission Test

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, and X.Y.Z. axis.
- Following channel(s) was (were) selected for the final test as listed below.

| Test Mode | Available Channel | Tested Channel | Modulation Type | Axis |
|-----------|-------------------|----------------|-----------------|------|
| A1 | 1 | 1 | QPSK | Z |

Radiated Emission Test (Below 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, and X.Y.Z. axis.
- Following channel(s) was (were) selected for the final test as listed below.

| Test Mode | Available Channel | Tested Channel | Modulation Type | Axis |
|-----------|-------------------|----------------|-----------------|------|
| A1 | 1 | 1 | QPSK | Z |

Radiated Emission Test (Above 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, and X.Y.Z. axis.
- Following channel(s) was (were) selected for the final test as listed below.

| Test Mode | Available Channel | Tested Channel | Modulation Type | Axis |
|-----------|-------------------|----------------|-----------------|------|
| A1 | 1 | 1 | QPSK | Z |

Band Edge Measurement

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, and X.Y.Z. axis.
- Following channel(s) was (were) selected for the final test as listed below.

| Test Mode | Available Channel | Tested Channel | Modulation Type | Axis |
|-----------|-------------------|----------------|-----------------|------|
| A1 | 1 | 1 | QPSK | Z |



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a boom chair. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart C (Section 15.249)

ANSI C63.4: 2003

All test items have been performed and recorded as per the above standards.

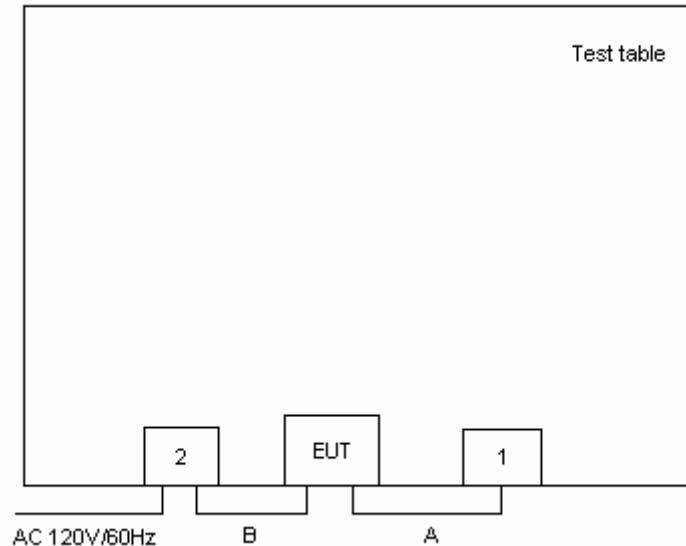
3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|-----|----------|-----------|-----------|-------------|------------------|
| 1 | Ipod MP3 | Apple | A1137 | 5U621XFCUPR | FCC DoC Approved |
| 2 | adapter | TDC power | DA-12-12 | 3G58 | N/A |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|--|
| A | 1m non-shielded audio line w/o core. |
| B | 2m non-shielded, detachable power output cable w/o core. |

Note: 2m non-shielded input power cable was used during the test.



4 EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

| Frequency (MHz) | Quasi-peak | Average |
|-----------------|------------|---------|
| 0.15 - 0.5 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30.0 | 60 | 50 |

NOTES: 1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.1.2 TEST INSTRUMENTS

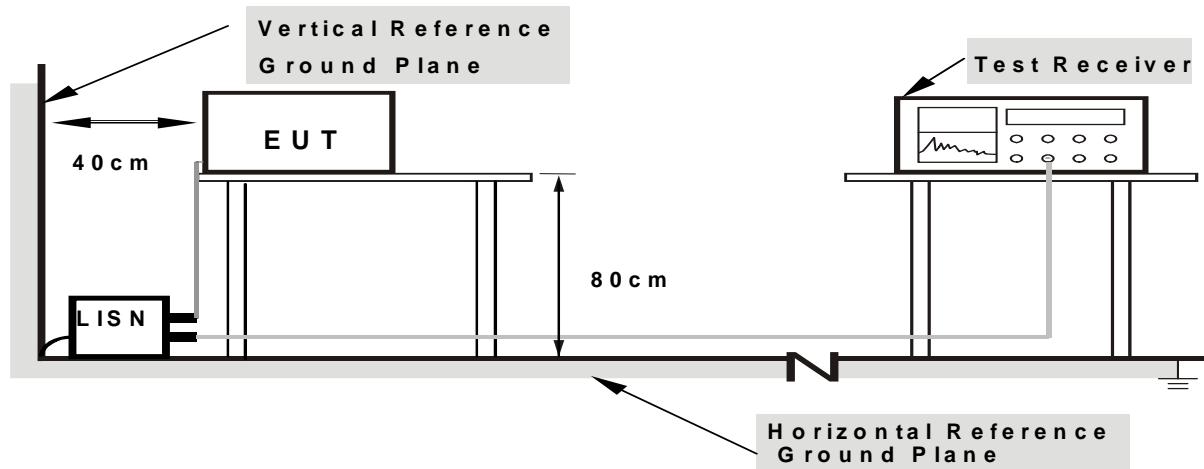
| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED UNTIL |
|----------------------------------|-----------------|------------|------------------|
| Test Receiver ROHDE & SCHWARZ | ESCS30 | E1R1002 | Jun. 12, 2007 |
| LISN ROHDE & SCHWARZ | NSLK8127 | E1L1001 | Jan. 31, 2008 |
| Software ADT | ADT_Cond_V7.3.0 | N/A | N/A |

4.1.3 TEST PROCEDURE

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit - 20dB) were not reported.

4.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.1.5 EUT OPERATING CONDITIONS

Set the EUT under transmission condition continuously at specific channel frequency.

4.1.6 TEST RESULTS

| | | | |
|---------------------------------|---------------------------|----------------------|---------------------------|
| EUT | 2.4G wireless camera | MODEL NO. | BM-SVC, |
| TEST MODE | Mode A1 | 6dB BANDWIDTH | 9kHz |
| INPUT POWER | 120Vac, 60Hz | PHASE | Line (L1) |
| ENVIRONMENTAL CONDITIONS | 20deg. C, 50% RH, 1012hPa | | TESTED BY: REBECCA |

| No | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|--------------|-------------|---------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.288 | 0.73 | 44.44 | 33.96 | 45.17 | 34.69 | 60.59 | 50.59 | -15.42 | -15.90 |
| 2 | 0.310 | 0.70 | 51.04 | 47.39 | 51.74 | 48.09 | 59.96 | 49.96 | -8.23 | -1.88 |
| 3 | 0.340 | 0.65 | 41.09 | 31.12 | 41.74 | 31.77 | 59.19 | 49.19 | -17.45 | -17.42 |
| 4 | 0.634 | 0.44 | 38.18 | 32.14 | 38.62 | 32.58 | 56.00 | 46.00 | -17.38 | -13.42 |
| 5 | 0.944 | 0.45 | 38.22 | 31.66 | 38.67 | 32.11 | 56.00 | 46.00 | -17.33 | -13.89 |
| 6 | 9.707 | 0.59 | 37.24 | 32.63 | 37.83 | 33.22 | 60.00 | 50.00 | -22.17 | -16.78 |

REMARKS: 1. Margin value = Emission level - Limit value

2 Correction factor = Insertion loss + Cable loss

3. Emission Level = Correction Factor + Reading Value.

| | | | |
|---------------------------------|---------------------------|----------------------|---------------------------|
| EUT | 2.4G wireless camera | MODEL NO. | BM-SVC, |
| TEST MODE | Mode A1 | 6dB BANDWIDTH | 9kHz |
| INPUT POWER | 120Vac, 60Hz | PHASE | N |
| ENVIRONMENTAL CONDITIONS | 20deg. C, 50% RH, 1012hPa | | TESTED BY: REBECCA |

| No | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|-------|-------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.287 | 0.74 | 43.49 | 31.81 | 44.23 | 32.55 | 60.60 | 50.60 | -16.38 | -18.06 |
| 2 | 0.319 | 0.69 | 50.93 | 43.77 | 51.62 | 44.46 | 59.72 | 49.72 | -8.10 | -5.26 |
| 3 | 0.341 | 0.67 | 40.45 | 29.48 | 41.12 | 30.15 | 59.18 | 49.18 | -18.06 | -19.03 |
| 4 | 0.629 | 0.50 | 37.91 | 29.76 | 38.41 | 30.26 | 56.00 | 46.00 | -17.59 | -15.74 |
| 5 | 0.954 | 0.55 | 35.97 | 26.18 | 36.52 | 26.73 | 56.00 | 46.00 | -19.48 | -19.27 |
| 6 | 9.993 | 0.55 | 38.50 | 34.09 | 39.05 | 34.64 | 60.00 | 50.00 | -20.95 | -15.36 |

REMARKS: 1. Margin value = Emission level - Limit value

2 Correction factor = Insertion loss + Cable loss

3. Emission Level = Correction Factor + Reading Value.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

According to 15.249 the field strength of emissions from intentional radiators operated under these frequencies bands shall not exceed the following:

| Fundamental Frequency (MHz) | Field Strength of Fundamental (dBuV/m) | |
|--------------------------------|--|---------|
| | Peak | Average |
| 2400 ~ 2483.5 | 113.98 | 93.98 |

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

| Frequencies (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|----------------------|--------------------------------------|----------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.2.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED UNTIL |
|--|-------------------|------------|------------------|
| Test Receiver ROHDE & SCHWARZ | ESCS30 | E1R1001 | Apr. 19, 2008 |
| BILOG Antenna SCHWARZBECK | VULB9168 | E1A1001 | Sept. 26, 2007 |
| Preamplifier Agilent | 8447D | E1A2001 | Jan. 27, 2008 |
| Preamplifier Agilent | 8449B | E1A2002 | Jan. 27, 2008 |
| Double Ridged Broadband Horn Antenna Schwarzbeck | BBHA 9120D | E1A1002 | Feb. 15, 2008 |
| Spectrum Analyzer Agilent | E4403B | E1S1001 | Jan. 13, 2008 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSP | E1S1002 | May. 15, 2008 |
| RF signal cable Woken | RG-402 | E1CBH01 | May. 30, 2008 |
| RF signal cable Woken | RG-402 | E1CBH02 | May. 30, 2008 |
| RF signal cable Woken | RG-402 | E1CBH03 | May. 30, 2008 |
| RF signal cable Woken | RG-412 | E1CBL02 | May. 30, 2008 |
| RF signal cable Woken | RG-412 | E1CBL03 | May. 30, 2008 |
| RF signal cable Woken | RG-412 | E1CBL04 | May. 30, 2008 |
| Software ADT | ADT_Radiated_V7.5 | N/A | N/A |

NOTE:

1. The calibration interval of the above test instruments is 12 months.
2. The horn antenna and Agilent preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The Spectrum Analyzer (model: FSP) and RF signal cable (SERIAL: E1CBH05&E1CBH07) are used only for the measurement of emission frequency above 1GHz if tested.

4.2.3 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

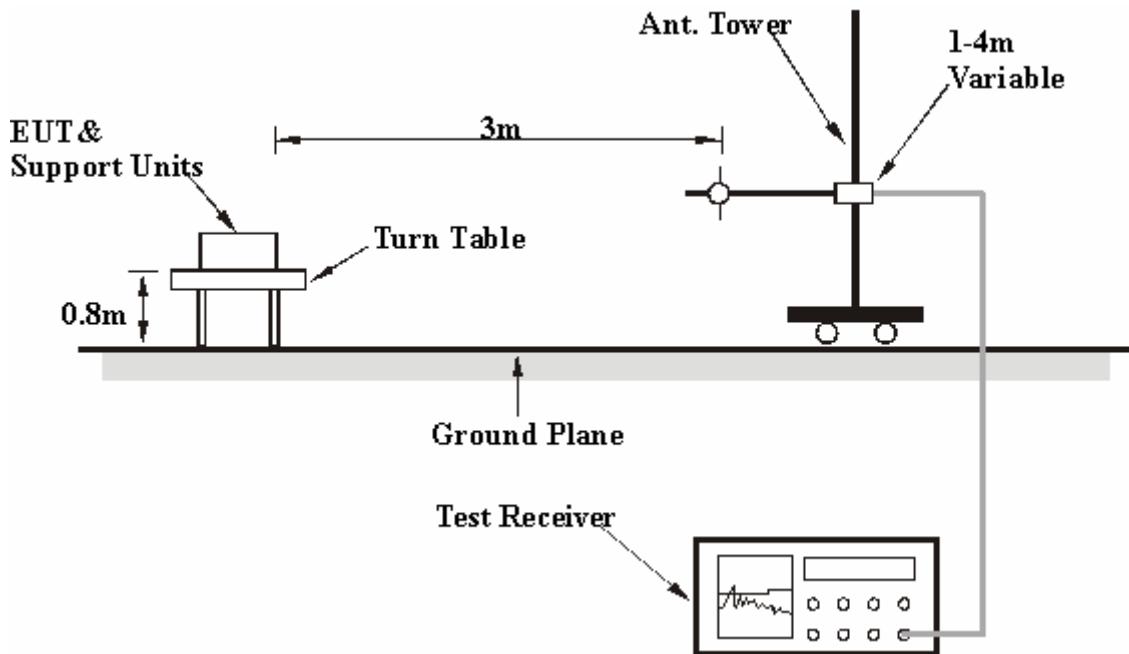
NOTE:

1. The resolution bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection (PK) at frequency above 1GHz.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

4.2.7 TEST RESULTS

Below 1GHz Worst-Case Data

Mode A1

| | | | |
|---------------------------------|-----------------------------|-----------------------------|---------------|
| EUT | 2.4G wireless camera | MODEL NO. | BM-SVC |
| CHANNEL | Channel 1 | FREQUENCY RANGE | 30 ~ 1000 MHz |
| MODULATION TYPE | FM | INPUT POWER (SYSTEM) | 120Vac, 60Hz |
| ENVIRONMENTAL CONDITIONS | 20 deg. C, 65% RH, 1000 hPa | DETECTOR FUNCTION | Quasi-Peak |
| TESTED BY | REBECCA | | |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq. (MHz) | Factor (dB/M) | Reading (dBuV/M) | Emission (dBuV/M) | Limit (dBuV/M) | Margin (dB) | Ant. Height (cm) | Table Angle (Deg.) |
|-----|-------------|---------------|------------------|-------------------|----------------|-------------|------------------|--------------------|
| 1 | 312.000 | 16.83 | 14.68 | 31.51 | 46.00 | -14.49 | 100.00 | 315.00 |
| 2 | 336.000 | 17.29 | 25.41 | 42.69 | 46.00 | -3.31 | 100.00 | 133.00 |
| 3 | 384.000 | 18.34 | 14.37 | 32.71 | 46.00 | -13.29 | 100.00 | 121.00 |
| 4 | 457.020 | 20.23 | 24.07 | 44.30 | 46.00 | -1.70 | 100.00 | 115.00 |
| 5 | 504.000 | 20.95 | 9.34 | 30.29 | 46.00 | -15.71 | 100.00 | 123.00 |
| 6 | 708.010 | 24.74 | 10.03 | 34.77 | 46.00 | -11.23 | 100.00 | 57.00 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq. (MHz) | Factor (dB/M) | Reading (dBuV/M) | Emission (dBuV/M) | Limit (dBuV/M) | Margin (dB) | Ant. Height (cm) | Table Angle (Deg.) |
|-----|-------------|---------------|------------------|-------------------|----------------|-------------|------------------|--------------------|
| 1 | 312.000 | 16.83 | 18.26 | 35.09 | 46.00 | -10.91 | 100.00 | 132.00 |
| 2 | 336.000 | 17.29 | 25.18 | 42.46 | 46.00 | -3.54 | 100.00 | 125.00 |
| 3 | 360.000 | 17.75 | 24.14 | 41.89 | 46.00 | -4.11 | 100.00 | 121.00 |
| 4 | 384.000 | 18.34 | 16.99 | 35.33 | 46.00 | -10.67 | 100.00 | 98.00 |
| 5 | 457.020 | 20.23 | 24.58 | 44.81 | 46.00 | -1.19 | 100.00 | 113.00 |
| 6 | 708.010 | 24.74 | 5.85 | 30.59 | 46.00 | -15.41 | 100.00 | 160.00 |

NOTE:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

Above 1GHz Worst-Case Data**Mode A1**

| | | | |
|---------------------------------|-----------------------------|-----------------------------|---------------|
| EUT | 2.4G wireless camera | MODEL NO. | BM-SVC |
| CHANNEL | Channel 1 | FREQUENCY RANGE | Above 1GHz |
| MODULATION TYPE | FM | INPUT POWER (SYSTEM) | 120Vac, 60Hz |
| ENVIRONMENTAL CONDITIONS | 20 deg. C, 65% RH, 1000 hPa | DETECTOR FUNCTION | PK / AV: 1MHz |
| TESTED BY | REBECCA | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|------------------|---------------|------------------|-------------------|----------------|--------------|------------------|--------------------|
| No. | Freq. (MHz) | Factor (dB/M) | Reading (dBuV/M) | Emission (dBuV/M) | Limit (dBuV/M) | Margin (dB) | Ant. Height (cm) | Table Angle (Deg.) |
| 1 | 914.04PK | 27.48 | 59.37 | 86.85 | 114 | -27.15 | 100 | 19 |
| 1 | 914AV | 27.48 | 57.76 | 85.24 | 94 | -8.76 | 100 | 19 |
| 2 | 1371.12PK | 29.86 | 40.28 | 70.14 | 74 | -3.86 | 100 | 0 |
| 2 | 1379.76AV | 29.88 | 15.79 | 45.66 | 54 | -8.34 | 100 | 0 |
| 3 | 1828.08PK | 29.74 | 35.48 | 65.22 | 74 | -8.78 | 100 | 25 |
| 3 | 1795.92AV | 29.62 | 12.97 | 42.59 | 54 | -11.41 | 100 | 25 |
| 4 | 2745PK | 32.85 | 17.52 | 50.37 | 74 | -23.63 | 100 | 60 |
| 4 | 2745AV | 32.85 | 4.56 | 37.41 | 54 | -16.59 | 100 | 60 |
| 5 | 3660PK | 34.13 | 15.28 | 49.41 | 74 | -24.59 | 100 | 100 |
| 5 | 3660AV | 34.13 | 3.8 | 37.93 | 54 | -16.07 | 100 | 100 |
| 6 | 4575PK | 37.77 | 12.04 | 49.81 | 74 | -24.19 | 100 | 109 |
| 6 | 4575AV | 37.77 | -0.01 | 37.76 | 54 | -16.24 | 100 | 109 |
| 7 | 5490PK | 38.98 | 12.17 | 51.15 | 74 | -22.85 | 100 | 201 |
| 7 | 5490AV | 38.98 | -0.48 | 38.51 | 54 | -15.49 | 100 | 201 |
| 8 | 6405PK | 41.7 | 10.96 | 52.67 | 74 | -21.33 | 100 | 230 |
| 8 | 6405AV | 41.7 | -0.21 | 41.49 | 54 | -12.51 | 100 | 230 |
| 9 | 7320PK | 44.65 | 12.47 | 57.12 | 74 | -16.88 | 100 | 280 |
| 9 | 7320AV | 44.65 | -0.44 | 44.21 | 54 | -9.79 | 100 | 280 |
| 10 | 8235PK | 45.19 | 11.39 | 56.58 | 74 | -17.42 | 100 | 309 |
| 10 | 8235AV | 45.19 | -0.18 | 45.02 | 54 | -8.98 | 100 | 309 |
| 11 | 9150PK | 46.72 | 9.31 | 56.03 | 74 | -17.97 | 100 | 355 |
| 11 | 9150AV | 46.72 | -2.57 | 44.15 | 54 | -9.85 | 100 | 355 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|----------------|------------------|---------------------|----------------------|-------------------|----------------|---------------------|-----------------------|
| No. | Freq. (MHz) | Factor (dB/M) | Reading (dBuV/M) | Emission (dBuV/M) | Limit (dBuV/M) | Margin (dB) | Ant. Height (cm) | Table Angle (Deg.) |
| 1 | 914.1PK | 27.48 | 61.04 | 88.52 | 114 | -25.48 | 100 | 29 |
| 1 | 913.97AV | 27.48 | 60.17 | 87.65 | 94 | -6.35 | 100 | 29 |
| 2 | 1368.96PK | 29.86 | 37.43 | 67.29 | 74 | -6.71 | 100 | 10 |
| 2 | 1379.76AV | 29.88 | 14.93 | 44.8 | 54 | -9.2 | 100 | 10 |
| 3 | 1812PK | 29.68 | 26.56 | 56.23 | 74 | -17.77 | 100 | 25 |
| 3 | 1795.92AV | 29.62 | 8.85 | 38.46 | 54 | -15.54 | 100 | 25 |
| 4 | 2745PK | 32.85 | 21.9 | 54.75 | 74 | -19.25 | 100 | 70 |
| 4 | 2745AV | 32.85 | 5.84 | 38.69 | 54 | -15.31 | 100 | 70 |
| 5 | 3660PK | 34.13 | 15.35 | 49.48 | 74 | -24.52 | 100 | 100 |
| 5 | 3660AV | 34.13 | 3.97 | 38.1 | 54 | -15.9 | 100 | 100 |
| 6 | 4575PK | 37.77 | 11.33 | 49.1 | 74 | -24.9 | 100 | 209 |
| 6 | 4575AV | 37.77 | 0.21 | 37.98 | 54 | -16.02 | 100 | 209 |
| 7 | 5490PK | 38.98 | 12.8 | 51.78 | 74 | -22.22 | 100 | 101 |
| 7 | 5490AV | 38.98 | -0.31 | 38.68 | 54 | -15.32 | 100 | 101 |
| 8 | 6405PK | 41.7 | 10.6 | 52.3 | 74 | -21.7 | 100 | 230 |
| 8 | 6405AV | 41.7 | -0.12 | 41.59 | 54 | -12.41 | 100 | 230 |
| 9 | 7320PK | 44.65 | 11.01 | 55.67 | 74 | -18.33 | 100 | 180 |
| 9 | 7320AV | 44.65 | -0.47 | 44.18 | 54 | -9.82 | 100 | 180 |
| 10 | 8235PK | 45.19 | 11.2 | 56.4 | 74 | -17.6 | 100 | 109 |
| 10 | 8235AV | 45.19 | -0.08 | 45.12 | 54 | -8.88 | 100 | 109 |
| 11 | 9150PK | 46.72 | 8.71 | 55.43 | 74 | -18.57 | 100 | 325 |
| 11 | 9150AV | 46.72 | -2.52 | 44.2 | 54 | -9.8 | 100 | 325 |

NOTE:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “*” = Fundamental frequency
6. The other emission levels were very low against the limit.

4.3 BAND EDGES MEASUREMENT

4.3.1 LIMITS OF BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.3.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|------------------------------------|-----------|------------|------------------|
| SIGNAL ANALYZER Rohde & Schwarz | FSP | E1S1002 | May. 16. 2008 |

4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low loss cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span. The band edges was measured and recorded.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

4.3.5 EUT OPERATING CONDITION

Enable the EUT to transmit data at lowest and highest channel frequencies individually.

4.3.6 TEST RESULTS

For Emissions outside of the specified frequency bands (Radiated), please refer to report section 4.2.7 which met the requirement of the general radiated emission limits in § 15.209.

For Emissions radiated outside of the specified frequency bands(Conducted), please refer to report section 4.1.6 which met the requirement of the general radiated emission limits in § 15.209(except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209., whichever is the lesser attenuation.).



5 APPENDIX - INFORMATION ON THE TESTING LABORATORY

We, ADT (Shanghai) Corp., was founded in 2003 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratory is accredited and approved by the following approval agencies according to ISO / IEC 17025 (2005).

The client should not use it to claim product endorsement by CNAS, A2LA, or any government agency.

| | |
|--------|-----------|
| Japan | VCCI |
| USA | FCC, A2LA |
| Norway | DNV |
| China | CNAS |



Copies of accreditation certificates of our laboratory obtained from approval agencies can be downloaded from our web site: www.cnadt.com

If you have any comments, please feel free to contact us at the following:

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