

Shenzhen Huatongwei International Inspection Co., Ltd.

Keji S,12th, Road, Hi-tech Industrial Park, Shenzhen, Guangdong, China

Phone:86-755-26748099 Fax:8

Fax:86-755-26748089







yechao.wang Wention



FCC TEST REPORT

47 CFR FCC Part 15 Subpart B

FCC ID...... Y2L00004

Compiled by

(position+printed name+signature)..: File administrators Jerome Luo

Supervised by

(position+printed name+signature)..: Test Engineer Yuchao Wang

Approved by

(position+printed name+signature)..: Manager Wenliang Li

Date of issue...... Oct 14, 2013

Address Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

Applicant's name...... Boly Media Communications (Asia) Co., Ltd.

Address: WORKSHOP B9,6/F,BLOCK B,CAMBRIDGE PLAZA NO.188 SAN

WAN ROAD, SHEUNG SHUI, N.T., HONG KONG

Test specification:

ANSI C63.4: 2009

TRF Originator...... Shenzhen Huatongwei International Inspection CO., Ltd

Master TRF...... Dated 2006-06

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Test item description MMS/GPRS Security Camera

Trade Mark BOLYGUARD/SCOUTGUARD

Model/Type reference...... BG500L

Listed Models BG500K/BG500L-HD/BG500K-HD

Manufacturer...... Boly Media Communications (shenzhen) Co., Ltd.

Rating DC 5.0V adpater from AC 120V/60Hz

GPRS/ EGPRS Class...... 12

GPRS operation mode Class B

Frequency...... GSM 850/PCS1900

Result..... Positive

Report No.: TRE1309000503 Page 2 of 15 Issued:2013-10-14

TEST REPORT

Test Report No. : TRE1309000503 Oct 14, 2013

Date of issue

Equipment under Test : MMS/GPRS Security Camera

Model /Type : BG500L

Address

Listed Models : BG500K/BG500L-HD/BG500K-HD

Applicant : Boly Media Communications (Asia) Co., Ltd.

: WORKSHOP B9,6/F,BLOCK B,CAMBRIDGE PLAZA

NO.188 SAN WAN ROAD, SHEUNG SHUI,N.T.,HONG

KONG

Manufacturer Boly Media Communications (shenzhen) Co., Ltd.

2F,Shanshui Building B,Yungu Innovation Industrial

Address park,NO.1183,Liuxian Blvd, Nanshan District,Shenzhen..Guangdong,China

| Test Result according to the standards on page 4: | Positive |
|---|----------|
|---|----------|

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Report No.: TRE1309000503 Page 3 of 15 Issued:2013-10-14

Contents

| <u>1.</u> | TEST STANDARDS | 4 |
|-----------|---|------|
| <u>2.</u> | SUMMARY | 5 |
| 2.1. | General Remarks | 5 |
| 2.2. | Equipment Under Test | 5 |
| 2.3. | Short description of the Equipment under Test (EUT) | 5 |
| 2.4. | EUT operation mode | 5 |
| 2.5. | Related Submittal(s) / Grant (s) | 5 |
| 2.6. | Modifications | 5 |
| 2.7. | EUT configuration | 5 |
| 2.8. | Configuration of Tested System | 6 |
| 2.9. | NOTE | 6 |
| <u>3.</u> | TEST ENVIRONMENT | 7 |
| 3.1. | Address of the test laboratory | 7 |
| 3.2. | Test Facility | 7 |
| 3.3. | Environmental conditions | 8 |
| 3.4. | Statement of the measurement uncertainty | 8 |
| 3.5. | Equipments Used during the Test | 8 |
| <u>4.</u> | TEST CONDITIONS AND RESULTS | 9 |
| 4.1. | Conducted Emissions Test | 9 |
| 4.2. | Radiated Emission Test | 11 |
| 5. | TEST SETUP PHOTOS OF THE EUT | . 15 |

Report No.: TRE1309000503 Page 4 of 15 Issued:2013-10-14

1. TEST STANDARDS

The tests were performed according to following standards:

47 CFR FCC Part 15 Subpart B - Unintentional Radiators

<u>ANSI C63.4: 2009</u> – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

Report No.: TRE1309000503 Page 5 of 15 Issued:2013-10-14

2. SUMMARY

2.1. General Remarks

| Date of receipt of test sample | : | Sep 01, 2013 |
|--------------------------------|---|--------------|
| | | |
| | | |
| Testing commenced on | | Sep 01, 2013 |
| | | |
| | | |
| Testing concluded on | | Oct 14,2013 |

2.2. Equipment Under Test

Power supply system utilised

| Power supply voltage | : | 0 | 120V / 60 Hz | 0 | 115V / 60Hz |
|----------------------|---|---|-------------------------------|----|-------------|
| | | 0 | 12 V DC | 0 | 24 V DC |
| | | • | Other (specified in blank bel | ow | |

DC 5.0V adapter from AC120V/60Hz

2.3. Short description of the Equipment under Test (EUT)

The Equipment Under Test (EUT) is a MMS/GPRS Security Camera with GPRS/EGPRS and 433.92MHz receiver function and integrated antenna

For more details, refer to the user's manual of the EUT.

2.4. EUT operation mode

The EUT has been tested under typical operating condition.

2.5. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID:Y2L00004** filing to comply with the FCC Part 15, Subpart B Rules.

2.6. Modifications

No modifications were implemented to meet testing criteria.

2.7. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

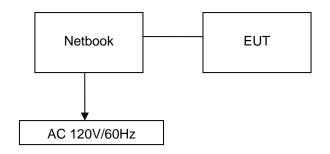
- supplied by the manufacturer
- O supplied by the lab

| 0 | Power Cable | Length (m): | / |
|---|-------------|---------------|---|
| | | Shield : | / |
| | | Detachable : | / |
| 0 | Multimeter | Manufacturer: | / |
| | | Model No. : | / |

Report No.: TRE1309000503 Page 6 of 15 Issued:2013-10-14

2.8. Configuration of Tested System

Configuration of Tested System



Equipment Used in Tested System

| No. | Equipment | Manufacturer | Model No. | Serial No. | Length | shielded/unshielded | Notes |
|-----|--------------------------|--------------|--------------------|------------------|--------|---------------------|-------|
| 1 | Netbook | DELL | n43s | B7N0BC257930294 | / | / | DOC |
| 2 | USB Cable (EUT to PC) | Genshuo | USB 2.0 | N/A | 0.60m | unshielded | N/A |
| 3 | Power line (Printer) | / | / | N/A | 1.00m | unshielded | N/A |
| 4 | Power Adapter (PC) | HIPRO | HP- A0904A 3 | F111207091666404 | 1.50m | unshielded | N/A |

2.9. NOTE

1. The EUT is MID with WLAN function, The functions of the EUT listed as below:

| | Test Standards | Reference Report |
|------------------|--------------------------|------------------|
| WLAN 802.11b/g/n | FCC Part 15 Subpart C | TRE1308004401 |
| USB Port | FCC Part 15 Subpart B | TRE1308004402 |
| MPE REPORT | FCC Per 47 CFR 2.1093(d) | TRE1308004403 |

Report No.: TRE1309000503 Page 7 of 15 Issued:2013-10-14

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen Huatongwei International Inspection Co., Ltd Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China Phone: 86-755-26715686 Fax: 86-755-26748089

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2003) and CISPR Publication 22.

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: Mar. 29, 2012. Valid time is until Feb. 28, 2015.

A2LA-Lab Cert. No. 2243.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until Sept. 30, 2013.

FCC-Registration No.: 662850

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 662850, Renewal date June. 01, 2012, valid time is until June. 01, 2015.

IC-Registration No.: 5377A

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on Jan. 25, 2011, valid time is until Jan. 24, 2014.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

VCCI

The 3m Semi-anechoic chamber $(12.2m\times7.95m\times6.7m)$ and Shielded Room $(8m\times4m\times3m)$ of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-292. Date of Registration: Dec. 24, 2010. Valid time is until Dec. 23, 2013.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: Dec. 20, 2009. Valid time is until Dec. 19, 2012.

Telecommunication Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-1837. Date of Registration: May 07, 2010. Valid time is until May 06, 2013.

DNV

Shenzhen Huatongwei International Inspection Co., Ltd. has been found to comply with the requirements of DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025 (2005), in accordance with the requirements of the DNV Laboratory Quality Manual towards subcontractors. Valid time is until Aug. 24, 2013.

Report No.: TRE1309000503 Page 8 of 15 Issued:2013-10-14

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature: 15-35 ° C

Humidity: 30-60 %

Atmospheric pressure: 950-1050mbar

3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods — Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

| Test | Range | Measurement Uncertainty | Notes |
|-----------------------|------------|----------------------------|-------|
| Radiated Emission | 30~1000MHz | 4.24 dB | (1) |
| Radiated Emission | 1~18GHz | 5.16 dB | (1) |
| Radiated Emission | 18-40GHz | 5.54 dB | (1) |
| Conducted Disturbance | 0.15~30MHz | 3.39 dB | (1) |

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.5. Equipments Used during the Test

| Cond | Conducted Emission | | | | | | | |
|------|--|-----------------|---------|--------|------------|--|--|--|
| Item | m Test Equipment Manufacturer Model No. Serial No. Last Cal. | | | | | | | |
| 1 | EMI TEST RECEIVER | Rohde & Schwarz | ESCI | 100106 | 2012/10/27 | | | |
| 2 | ARTIFICIAL MAINS | Rohde & Schwarz | ESH2-Z5 | 100028 | 2012/10/27 | | | |
| 3 | PULSE LIMITER | Rohde & Schwarz | ESHSZ2 | 100044 | 2012/10/27 | | | |
| 4 | EMI TEST SOFTWARE | Rohde & Schwarz | ES-K1 | N/A | N/A | | | |

| Radia | Radiated Emission | | | | | | |
|-------|----------------------------|-----------------|------------------------|------------|------------|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | | |
| 1 | ULTRA-BROADBAND ANTENNA | ROHDE & SCHWARZ | HL562 | 100015 | 2012/10/27 | | |
| 2 | EMI TEST RECEIVER | Rohde & Schwarz | ESI 26 | 100009 | 2012/10/27 | | |
| 3 | EMI TEST OFTWARE | Audix | E3 | N/A | N/A | | |
| 4 | TURNTABLE | MATURO | TT2.0 | | N/A | | |
| 5 | ANTENNA MAST | MATURO | TAM-4.0-P | | N/A | | |
| 6 | EMI TEST OFTWARE | Rohde & Schwarz | ESK1 | N/A | N/A | | |
| 7 | HORN ANTENNA | ROHDE & SCHWARZ | HF906 | 100039 | 2012/10/27 | | |
| 8 | Amplifer | Sonoma | 310N | E009-13 | 2012/10/27 | | |
| 9 | JS amplifer | Rohde & Schwarz | JS4-00101800- 28-5A | F201504 | 2012/10/27 | | |

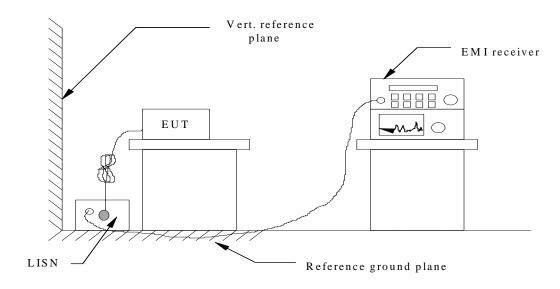
The calibration interval was one year.

Report No.: TRE1309000503 Page 9 of 15 Issued:2013-10-14

4. TEST CONDITIONS AND RESULTS

4.1. Conducted Emissions Test

TEST CONFIGURATION



TEST PROCEDURE

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4-2009.
- 2. Support equipment, if needed, was placed as per ANSI C63.4-2009.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4-2009.
- 4. The EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.

CONDUCTED POWER LINE EMISSION LIMIT

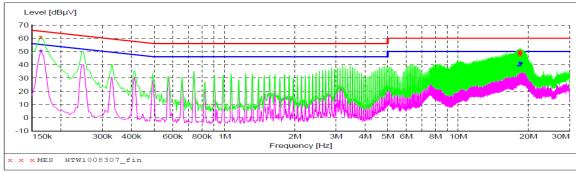
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following:

| Fraguanay | Maximum RF Line Voltage (dBμV) | | | | | | | |
|--------------------|--------------------------------|------|---------|--------|--|--|--|--|
| Frequency (MHz) | CLAS | SS A | CLASS B | | | | | |
| (IVITIZ) | Q.P. | Ave. | Q.P. | Ave. | | | | |
| 0.15 - 0.50 | 79 | 66 | 66-56* | 56-46* | | | | |
| 0.50 - 5.00 | 73 | 60 | 56 | 46 | | | | |
| 5.00 - 30.0 | 73 | 60 | 60 | 50 | | | | |

^{*} Decreasing linearly with the logarithm of the frequency

TEST RESULTS

SCAN TABLE: "Voltage (9K-30M)FIN" Short Description: 150K-30M Voltage



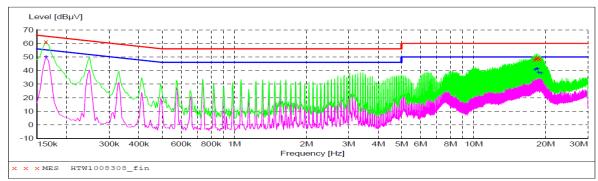
MEASUREMENT RESULT: "HTW1008307_fin"

| 10/08/2013 2 Frequency MHz | :51PM Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|----------------------------------|------------------------|--------------|---------------|--------------|----------|------|-----|
| 0.163500 | 61.00 | 10.3 | 65 | 4.3 | QP | N | GND |
| 18.249000 | 50.00 | 10.7 | 60 | 10.0 | QP | N | GND |
| 18.334500 | 48.90 | 10.7 | 60 | 11.1 | QP | N | GND |
| 18.402000 | 49.10 | 10.7 | 60 | 10.9 | QP | N | GND |
| 18.501000 | 47.50 | 10.7 | 60 | 12.5 | QP | N | GND |
| 18.582000 | 49.60 | 10.7 | 60 | 10.4 | QP | N | GND |

MEASUREMENT RESULT: "HTW1008307_fin2"

| 1 | 0/08/2013 2: Frequency MHz | 51PM Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|----------------------------------|-----------------------|--------------|---------------|--------------|----------|------|-----|
| | 0.163500 | 50.20 | 10.3 | 55 | 5.1 | AV | N | GND |
| | 18.078000 | 39.00 | 10.7 | 50 | 11.0 | AV | N | GND |
| | 18.321000 | 41.40 | 10.7 | 50 | 8.6 | AV | N | GND |
| | 18.406500 | 39.40 | 10.7 | 50 | 10.6 | AV | N | GND |
| | 18.568500 | 40.60 | 10.7 | 50 | 9.4 | AV | N | GND |
| | 18.649500 | 41.10 | 10.7 | 5.0 | 8.9 | AV | N | GND |

SCAN TABLE: "Voltage (9K-30M)FIN" Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "HTW1008308_fin"

| 10/08/201 Freque | | 4PM Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|------------------------------|--|--------------------------------------|----------------------------|---|----------------------------------|----------------------------|--|
| 0.163 17.979 18.240 18.307 18.568 18.883 | 9000 0000 7500 3500 | 61.10 48.00 48.70 48.90 49.30 48.60 | 10.3 10.7 10.7 10.7 10.7 | 65 60 60 60 60 | 4.2 12.0 11.3 11.1 10.7 11.4 | QP QP QP QP QP QP | L1 L1 L1 L1 L1 | GND GND GND GND GND GND |

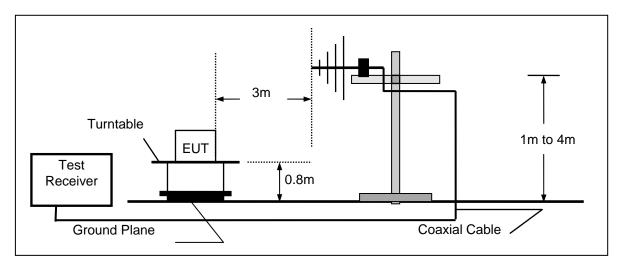
MEASUREMENT RESULT: "HTW1008308_fin2"

| 10/08/2013 2:54PM | | | | | | | | | | |
|-------------------|------------|---------------|--------------|---------------|--------------|----------|------|-----|--|--|
| Freque | ncy MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE | | |
| 0.163 | 500 | 49.90 | 10.3 | 55 | 5.4 | AV | L1 | GND | | |
| 18.060 | 000 | 40.50 | 10.7 | 50 | 9.5 | AV | L1 | GND | | |
| 18.388 | 500 | 41.20 | 10.7 | 50 | 8.8 | AV | L1 | GND | | |
| 18.469 | 500 | 41.10 | 10.7 | 50 | 8.9 | AV | L1 | GND | | |
| 18.640 | 500 | 38.50 | 10.7 | 50 | 11.5 | AV | L1 | GND | | |
| 19.131 | 000 | 38.10 | 10.7 | 50 | 11.9 | AV | L1 | GND | | |

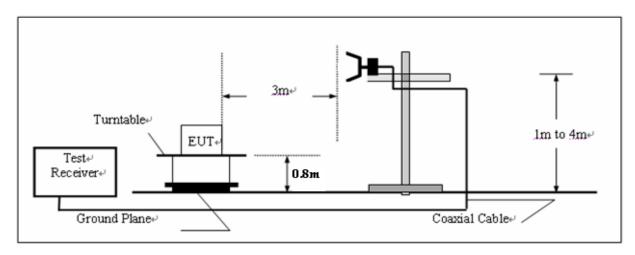
4.2. Radiated Emission Test

TEST CONFIGURATION

a) Radiated Emission Test Set-Up, Frequency below 1000MHz



b) Radiated Emission Test Set-Up, Frequency above 1000MHz



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The maximum operation frequency was 512MHz,the radiated emission test frequency from 30MHz to 6GHz.

FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
|---------------------------|--|
| RA = Reading Amplitude | AG = Amplifier Gain |
| AF = Antenna Factor | |

For example

| Frequency | FS | RA | AF | CL | AG | Transd |
|-----------|----------|----------|------|------|-------|--------|
| (MHz) | (dBµV/m) | (dBµV/m) | (dB) | (dB) | (dB) | (dB) |
| 300.00 | 40 | 58.1 | 12.2 | 1.6 | 31.90 | |

Transd=AF +CL-AG

RADIATION LIMIT

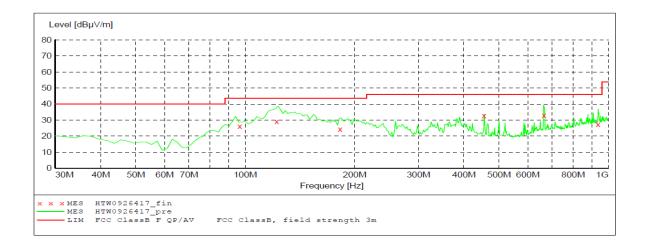
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency (MHz) | Distance (Meters) | Radiated (dBµV/m) | Radiated (µV/m) |
|-----------------|-------------------|-------------------|-----------------|
| 30-88 | 3 | 40.0 | 100 |
| 88-216 | 3 | 43.5 | 150 |
| 216-960 | 3 | 46.0 | 200 |
| Above 960 | 3 | 54.0 | 500 |

TEST RESULTS

SCAN TABLE: "test Field(30M-1G)OP"

Short Description: Field Strength(30M-1G)
Start Stop Step Detector Meas. Detector Meas. IF
Time Bandw. Transducer Frequency Frequency Width 30.0 MHz 1.0 GHz 60.0 1 120 kHz HL562 201106 60.0 kHz OuasiPeak 1.0 s



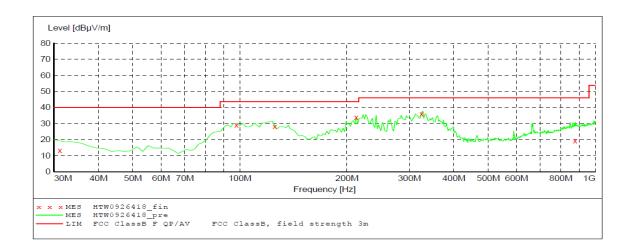
MEASUREMENT RESULT: "HTW0926417 fin"

| 9/26/2013 | 5:15PM | | | | | | | |
|-----------|----------|-------|--------|------|------|--------|--------|--------------|
| Frequenc | | | | _ | Det. | Height | | Polarization |
| MH | z dBµV/m | dB | dBµV/m | dB | | cm | deg | |
| 96.66000 | 0 26.10 | -18.5 | 43.5 | 17.4 | OP | 100.0 | 285.00 | VERTICAL |
| | | | | | ~ | | | |
| 122.22000 | 0 29.10 | -18.0 | 43.5 | 14.4 | QP | 125.0 | 338.00 | VERTICAL |
| 182.58000 | 0 24.30 | -20.5 | 43.5 | 19.2 | QP | 100.0 | 213.00 | VERTICAL |
| 454.92000 | 0 32.60 | -12.3 | 46.0 | 13.4 | QP | 100.0 | 207.00 | VERTICAL |
| 665.10000 | 0 33.10 | -7.7 | 46.0 | 12.9 | QP | 100.0 | 209.00 | VERTICAL |
| 937.50000 | 0 27.20 | -4.7 | 46.0 | 18.8 | QP | 100.0 | 360.00 | VERTICAL |

SCAN TABLE: "test Field(30M-1G)OP"

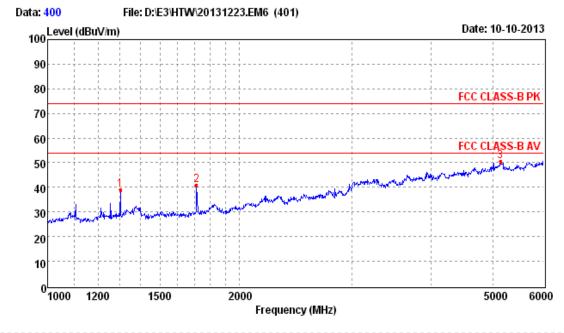
Short Description: Field Strength(30M-1G)
Start Stop Step Detector Meas. Detector Meas. IF Transducer
Time Bandw.

Z QuasiPeak 1.0 s 120 kHz HL562 201106 Frequency Frequency Width 30.0 MHz 1.0 GHz 60.0 k 60.0 kHz QuasiPeak 1.0 s

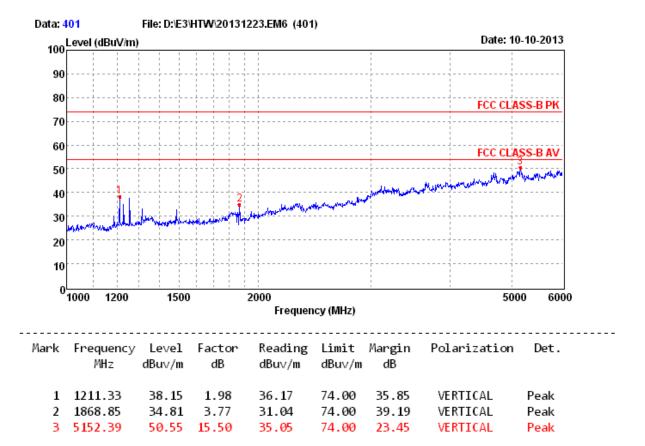


MEASUREMENT RESULT: "HTW0926418 fin"

| tion |
|------------------|
| |
| |
| 'AL |
| AI 'AI 'AI |



| Mark | Frequency MHz | | | Reading dBu∨/m | | _ | Polarization | Det. |
|------|------------------|-------|-------|-------------------|-------|-------|--------------|------|
| 1 | 1301.33 | 39.02 | 3.43 | 35.59 | 74.00 | 34.98 | HORIZONTAL | Peak |
| 2 | 1711.77 | 40.94 | 3.16 | 37.78 | 74.00 | 33.06 | HORIZONTAL | Peak |
| 3 | 5133.96 | 50.67 | 15.76 | 34.91 | 74.00 | 23.33 | HORIZONTAL | Peak |



Issued:2013-10-14

5. Test Setup Photos of the EUT







.....End of Report.....